July 6, 2016

Dr. Jason Conder, Ph.D.
Geosyntec
2100 Main Street
Huntington Beach, CA 92648

Dear Dr. Conder,

Enclosed are the results for Frontier Analytical Laboratory project **9967**. These results correspond to your project **LDWG** under project number **HE1508, P01.** Five SPME/Hexane extracts were received on 7/1/2016 at Frontier Analytical Laboratory. All five 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 **RUSH** turnaround time of **three business days** was requested for this project.

Please note these sample extracts were received at a temperature of eight degrees Celsius which is out of the method recommended sample receipt temperature range. Although dioxins/furans and PCBs are considered to be very stable in hexane at ambient room temperatures, we are required by NELAP to report this anomaly to you.

The following Level IV report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section, and an Instrument Raw Data section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and a sample photo. The Laboratory Raw Data section contains our project request sheet, an extraction bench sheet and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms with 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 daily calibration standards, beginning calibration, and ending calibration injections associated with the samples and QC. The Level IV data package on compact disk has been sent to you via OnTrac. The enclosed results and Electronic Data Deliverable (EDD) are specifically for the samples referenced in this report only. These results shall not be reproduced except in full. Frontier Analytical Laboratory's State of Oregon NELAP certificate number is **4041**. Our State of California ELAP certificate number is **2934**.

If you have any questions regarding project **9967**, 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: **9967**

Received on: **07/01/2016** Project Due: **07/07/2016** Storage: **R2**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
09967-001-SA	0	HE1508, P01	LDW-CS-C1-S010-PW-TB	EPA 1668 PCB	Solvent	06/29/2016	04:00 pm	06/29/2017
09967-002-SA	0	HE1508, P01	LDW-CS-C2-S010-PW-TB	EPA 1668 PCB	Solvent	06/29/2016	04:00 pm	06/29/2017
09967-003-SA	0	HE1508, P01	LDW-CS-C3-S010-PW-TB	EPA 1668 PCB	Solvent	06/29/2016	04:00 pm	06/29/2017
09967-004-SA	0	HE1508, P01	LDW-CS-C4-S010-PW-MB	EPA 1668 PCB	Solvent	06/29/2016	04:00 pm	06/29/2017
09967-005-SA	0	HE1508, P01	LDW-CS-C5-S010-PW-MB	EPA 1668 PCB	Solvent	06/29/2016	04:00 pm	06/29/2017

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 9967-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016
Total Conc: 0.00

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	6.27			PCB-51	ND	4.46		
PCB-2	ND	7.94			PCB-52	ND	3.38	C	69
PCB-3	ND	8.37			PCB-53	ND	4.38		
PCB-4	ND	7.64			PCB-54	ND	3.28		
PCB-5	ND	7.07			PCB-55	ND	3.30		
PCB-6	ND	6.91			PCB-56	ND	7.18	C	60
PCB-7	ND	6.99			PCB-57	ND	3.20		
PCB-8	ND	7.25			PCB-58	ND	3.34		
PCB-9	ND	7.17			PCB-59	-	-	C042	42
PCB-10	ND	8.08			PCB-60	-	-	C056	56
PCB-11	ND	7.83			PCB-61	ND	3.25	C	70
PCB-12	ND	7.74			PCB-62	ND	3.65		
PCB-13	ND	8.30			PCB-63	ND	3.23		
PCB-14	ND	7.43			PCB-64	-	-	C041	41/71/72
PCB-15	ND	8.50			PCB-65	ND	3.21		
PCB-16	ND	4.56			PCB-66	ND	3.13	C	76
PCB-17	ND	4.68			PCB-67	ND	3.34		
PCB-18	ND	5.16			PCB-68	ND	3.16		
PCB-19	ND	4.99			PCB-69	-	-	C052	52
PCB-20	ND	5.26	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	5.76			PCB-72	-	-	C041	41/64/71
PCB-23	ND	5.53			PCB-73	ND	3.55		
PCB-24	ND	3.57			PCB-74	ND	3.14		
PCB-25	ND	4.88			PCB-75	-	-	C048	48
PCB-26	ND	5.38			PCB-76	-	-	C066	66
PCB-27	ND	3.53			PCB-77	ND	7.65		
PCB-28	ND	4.54			PCB-78	ND	6.96		
PCB-29	ND	5.42			PCB-79	ND	7.02		
PCB-30	ND	3.36			PCB-80	ND	2.90		
PCB-31	ND	5.74			PCB-81	ND	6.36		
PCB-32	ND	3.77			PCB-82	ND	8.94		
PCB-33	-	-	C020	20/21	PCB-83	ND	6.55	C	112
PCB-34	ND	5.57			PCB-84	ND	7.70	C	92
PCB-35	ND	5.74			PCB-85	ND	6.19	C	116
PCB-36	ND	5.58			PCB-86	ND	8.68		
PCB-37	ND	5.34			PCB-87	ND	5.80	C	117/125
PCB-38	ND	5.10			PCB-88	ND	7.77	C	91
PCB-39	ND	5.79			PCB-89	ND	7.81		
PCB-40	ND	5.51			PCB-90	ND	7.03	C	101
PCB-41	ND	3.33	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	3.65	C	59	PCB-92	-	-	C084	84
PCB-43	ND	4.19	C	49	PCB-93	ND	8.90		
PCB-44	ND	4.84			PCB-94	ND	8.87		
PCB-45	ND	4.71			PCB-95	ND	8.30		
PCB-46	ND	5.14			PCB-96	ND	5.91		
PCB-47	ND	3.66			PCB-97	ND	6.82		
PCB-48	ND	3.44	C	75	PCB-98	ND	6.85	C	102
PCB-49	-	-	C043	43	PCB-99	ND	6.82		
PCB-50	ND	4.17			PCB-100	ND	7.47		

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EPA Method 1668
PCBs

FAL ID: 9967-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	8.61		
PCB-102	-	-	C098	98	PCB-152	ND	4.00		
PCB-103	ND	7.04			PCB-153	ND	6.91		
PCB-104	ND	5.53			PCB-154	ND	4.75		
PCB-105	ND	6.59			PCB-155	ND	3.71		
PCB-106	ND	6.61	C	118	PCB-156	ND	6.51		
PCB-107	ND	6.71	C	108	PCB-157	ND	7.22		
PCB-108	-	-	C107	107	PCB-158	ND	6.47	C	160
PCB-109	ND	5.85			PCB-159	ND	5.94		
PCB-110	ND	5.20			PCB-160	-	-	C158	158
PCB-111	ND	5.10	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.72			PCB-163	-	-	C138	138/164
PCB-114	ND	6.16			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	6.39		
PCB-117	-	-	C087	87/125	PCB-167	ND	6.41		
PCB-118	-	-	C106	106	PCB-168	ND	6.59		
PCB-119	ND	5.30			PCB-169	ND	8.62		
PCB-120	ND	5.15			PCB-170	ND	8.88		
PCB-121	ND	6.47			PCB-171	ND	7.67		
PCB-122	ND	5.77			PCB-172	ND	8.22		
PCB-123	ND	5.70			PCB-173	ND	8.69		
PCB-124	ND	6.08			PCB-174	ND	7.22		
PCB-125	-	-	C087	87/117	PCB-175	ND	7.38		
PCB-126	ND	8.69			PCB-176	ND	5.53		
PCB-127	ND	6.57			PCB-177	ND	8.12		
PCB-128	ND	7.63	C	162	PCB-178	ND	7.60		
PCB-129	ND	9.91			PCB-179	ND	5.41		
PCB-130	ND	9.19			PCB-180	ND	7.02		
PCB-131	ND	8.44	C	133	PCB-181	ND	8.43		
PCB-132	ND	7.52	C	161	PCB-182	ND	7.01	C	187
PCB-133	-	-	C131	131	PCB-183	ND	6.91		
PCB-134	ND	8.50	C	143	PCB-184	ND	5.40		
PCB-135	ND	8.87			PCB-185	ND	7.87		
PCB-136	ND	4.19			PCB-186	ND	5.74		
PCB-137	ND	8.95			PCB-187	-	-	C182	182
PCB-138	ND	6.47	C	163/164	PCB-188	ND	5.29		
PCB-139	ND	7.98	C	149	PCB-189	ND	6.82		
PCB-140	ND	8.13			PCB-190	ND	6.47		
PCB-141	ND	8.31			PCB-191	ND	6.13		
PCB-142	ND	9.21			PCB-192	ND	6.46		
PCB-143	-	-	C134	134	PCB-193	ND	5.96		
PCB-144	ND	8.09			PCB-194	ND	7.36		
PCB-145	ND	4.26			PCB-195	ND	8.16		
PCB-146	ND	7.02	C	165	PCB-196	ND	5.50	C	203
PCB-147	ND	7.80			PCB-197	ND	4.08		
PCB-148	ND	5.29			PCB-198	ND	5.73		
PCB-149	-	-	C139	139	PCB-199	ND	6.09		
PCB-150	ND	4.14			PCB-200	ND	4.09		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 9967-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.98		
PCB-202	ND	4.16		
PCB-203	-	-	C196	196
PCB-204	ND	4.08		
PCB-205	ND	5.97		
PCB-206	ND	9.92		
PCB-207	ND	7.47		
PCB-208	ND	6.68		
PCB-209	ND	7.48		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	94.6	5.00 - 145	
13C-PCB-3	94.7	5.00 - 145	
13C-PCB-4	98.9	5.00 - 145	
13C-PCB-15	91.4	5.00 - 145	
13C-PCB-19	97.5	5.00 - 145	
13C-PCB-37	93.7	5.00 - 145	
13C-PCB-54	100	5.00 - 145	
13C-PCB-77	92.3	10.0 - 145	
13C-PCB-81	91.5	10.0 - 145	
13C-PCB-104	99.7	10.0 - 145	
13C-PCB-105	98.4	10.0 - 145	
13C-PCB-114	104	10.0 - 145	
13C-PCB-118	105	10.0 - 145	
13C-PCB-123	99.4	10.0 - 145	
13C-PCB-126	92.5	10.0 - 145	
13C-PCB-155	104	10.0 - 145	
13C-PCB-156	96.0	10.0 - 145	
13C-PCB-157	102	10.0 - 145	
13C-PCB-167	102	10.0 - 145	
13C-PCB-169	93.3	10.0 - 145	
13C-PCB-188	107	10.0 - 145	
13C-PCB-189	97.1	10.0 - 145	
13C-PCB-202	105	10.0 - 145	
13C-PCB-205	106	10.0 - 145	
13C-PCB-206	100	10.0 - 145	
13C-PCB-208	106	10.0 - 145	
13C-PCB-209	102	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	106	5.00 - 145	
13C-PCB-111	103	10.0 - 145	
13C-PCB-178	111	10.0 - 145	

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

Analyst: _____

Date: 7/5/2016

Reviewed By: _____

Date: 7/5/2016

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 9967-001-OPR
Client ID: OPR
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: ng/ml

Acquired: 07-02-2016

Compound	% Recovery	QC Limits	Qual
PCB-1	106	60.0 - 135	
PCB-3	102	60.0 - 135	
PCB-4	97.8	60.0 - 135	
PCB-15	101	60.0 - 135	
PCB-19	107	60.0 - 135	
PCB-37	99.6	60.0 - 135	
PCB-54	107	60.0 - 135	
PCB-77	106	60.0 - 135	
PCB-81	100	60.0 - 135	
PCB-104	104	60.0 - 135	
PCB-105	92.8	60.0 - 135	
PCB-114	103	60.0 - 135	
PCB-118	108	60.0 - 135	
PCB-123	97.4	60.0 - 135	
PCB-126	98.4	60.0 - 135	
PCB-155	105	60.0 - 135	
PCB-156	103	60.0 - 135	
PCB-157	107	60.0 - 135	
PCB-167	104	60.0 - 135	
PCB-169	106	60.0 - 135	
PCB-188	103	60.0 - 135	
PCB-189	104	60.0 - 135	
PCB-202	110	60.0 - 135	
PCB-205	104	60.0 - 135	
PCB-206	104	60.0 - 135	
PCB-208	110	60.0 - 135	
PCB-209	107	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	93.3	15.0 - 145	
13C-PCB-3	93.5	15.0 - 145	
13C-PCB-4	95.6	15.0 - 145	
13C-PCB-15	90.4	15.0 - 145	
13C-PCB-19	94.6	15.0 - 145	
13C-PCB-37	95.0	15.0 - 145	
13C-PCB-54	95.8	15.0 - 145	
13C-PCB-77	94.2	40.0 - 145	
13C-PCB-81	93.2	40.0 - 145	
13C-PCB-104	97.6	40.0 - 145	
13C-PCB-105	97.1	40.0 - 145	
13C-PCB-114	100	40.0 - 145	
13C-PCB-118	103	40.0 - 145	
13C-PCB-123	97.7	40.0 - 145	
13C-PCB-126	98.1	40.0 - 145	
13C-PCB-155	101	40.0 - 145	
13C-PCB-156	96.1	40.0 - 145	
13C-PCB-157	101	40.0 - 145	
13C-PCB-167	103	40.0 - 145	
13C-PCB-169	98.0	40.0 - 145	
13C-PCB-188	104	40.0 - 145	
13C-PCB-189	100	40.0 - 145	
13C-PCB-202	103	40.0 - 145	
13C-PCB-205	101	40.0 - 145	
13C-PCB-206	101	40.0 - 145	
13C-PCB-208	97.6	40.0 - 145	
13C-PCB-209	100	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	98.9	15.0 - 145	
13C-PCB-111	97.1	40.0 - 145	
13C-PCB-178	101	40.0 - 145	

Analyst: _____

Date: 7/5/2016

Reviewed By: _____

Date: 7/5/2016

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EPA Method 1668
PCBs

FAL ID: 9967-001-SA
Client ID: LDW-CS-C1-S010-PW-TB
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: 07-01-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016
Total Conc: 33000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	6.41			PCB-51	ND	3.80		
PCB-2	ND	8.36			PCB-52	ND	2.88	C	69
PCB-3	ND	9.06			PCB-53	ND	3.73		
PCB-4	ND	8.19			PCB-54	ND	2.79		
PCB-5	ND	7.89			PCB-55	35.4	-		
PCB-6	ND	7.71			PCB-56	ND	9.31	C	60
PCB-7	ND	7.80			PCB-57	ND	2.72		
PCB-8	ND	8.09			PCB-58	ND	2.84		
PCB-9	ND	8.00			PCB-59	-	-	C042	42
PCB-10	ND	9.02			PCB-60	-	-	C056	56
PCB-11	51.2	-			PCB-61	ND	2.76	C	70
PCB-12	ND	8.64			PCB-62	ND	3.10		
PCB-13	ND	9.27			PCB-63	ND	2.74		
PCB-14	4410	-			PCB-64	-	-	C041	41/71/72
PCB-15	ND	9.77			PCB-65	ND	2.73		
PCB-16	ND	3.78			PCB-66	ND	2.66	C	76
PCB-17	ND	3.89			PCB-67	ND	2.84		
PCB-18	ND	4.28			PCB-68	7.61	-	J	
PCB-19	ND	4.14			PCB-69	-	-	C052	52
PCB-20	ND	6.71	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	7.34			PCB-72	-	-	C041	41/64/71
PCB-23	ND	7.06			PCB-73	17.0	-	J	
PCB-24	ND	2.96			PCB-74	ND	2.67		
PCB-25	ND	6.23			PCB-75	-	-	C048	48
PCB-26	ND	6.86			PCB-76	-	-	C066	66
PCB-27	ND	2.93			PCB-77	ND	9.91		
PCB-28	ND	5.79			PCB-78	3090	-		
PCB-29	ND	6.92			PCB-79	ND	9.11		
PCB-30	ND	2.79			PCB-80	ND	2.47		
PCB-31	ND	7.33			PCB-81	ND	8.26		
PCB-32	ND	3.13			PCB-82	ND	7.78		
PCB-33	-	-	C020	20/21	PCB-83	ND	5.71	C	112
PCB-34	ND	7.11			PCB-84	ND	6.70	C	92
PCB-35	ND	7.32			PCB-85	ND	5.39	C	116
PCB-36	4130	-			PCB-86	ND	7.55		
PCB-37	ND	6.81			PCB-87	ND	5.05	C	117/125
PCB-38	ND	6.51			PCB-88	ND	4.78	C	91
PCB-39	ND	7.38			PCB-89	ND	6.79		
PCB-40	ND	4.69			PCB-90	ND	6.12	C	101
PCB-41	ND	2.83	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	3.11	C	59	PCB-92	-	-	C084	84
PCB-43	ND	3.56	C	49	PCB-93	18.1	-	J	
PCB-44	ND	4.11			PCB-94	ND	5.46		
PCB-45	ND	4.01			PCB-95	ND	5.11		
PCB-46	ND	4.37			PCB-96	ND	3.63		
PCB-47	ND	3.11			PCB-97	ND	5.94		
PCB-48	ND	2.92	C	75	PCB-98	ND	4.21	C	102
PCB-49	-	-	C043	43	PCB-99	ND	5.94		
PCB-50	9.83	-	J		PCB-100	ND	4.59		

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EPA Method 1668
PCBs

FAL ID: 9967-001-SA
Client ID: LDW-CS-C1-S010-PW-TB
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: 07-01-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	4.46		
PCB-102	-	-	C098	98	PCB-152	ND	3.22		
PCB-103	ND	4.33			PCB-153	ND	3.58		
PCB-104	2760	-			PCB-154	ND	3.81		
PCB-105	ND	3.62			PCB-155	2880	-		
PCB-106	ND	3.45	C	118	PCB-156	ND	3.54		
PCB-107	ND	3.77	C	108	PCB-157	ND	3.92		
PCB-108	-	-	C107	107	PCB-158	ND	3.35	C	160
PCB-109	ND	5.09			PCB-159	ND	3.24		
PCB-110	ND	4.52			PCB-160	-	-	C158	158
PCB-111	ND	4.44	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.98			PCB-163	-	-	C138	138/164
PCB-114	ND	3.64			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.49		
PCB-117	-	-	C087	87/125	PCB-167	ND	3.67		
PCB-118	-	-	C106	106	PCB-168	ND	3.42		
PCB-119	ND	4.61			PCB-169	ND	4.15		
PCB-120	ND	4.48			PCB-170	ND	5.19		
PCB-121	3250	-			PCB-171	ND	4.48		
PCB-122	ND	3.24			PCB-172	80.1	-		
PCB-123	ND	3.36			PCB-173	ND	5.07		
PCB-124	ND	3.41			PCB-174	ND	4.22		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.31		
PCB-126	ND	4.46			PCB-176	ND	3.23		
PCB-127	ND	3.68			PCB-177	ND	4.74		
PCB-128	ND	4.16	C	162	PCB-178	ND	4.44		
PCB-129	ND	5.14			PCB-179	ND	3.16		
PCB-130	ND	4.76			PCB-180	ND	4.10		
PCB-131	ND	4.38	C	133	PCB-181	ND	4.92		
PCB-132	ND	3.90	C	161	PCB-182	ND	4.09	C	187
PCB-133	-	-	C131	131	PCB-183	ND	4.03		
PCB-134	ND	4.40	C	143	PCB-184	3170	-		
PCB-135	ND	4.60			PCB-185	ND	4.59		
PCB-136	ND	3.36			PCB-186	ND	3.35		
PCB-137	ND	4.64			PCB-187	-	-	C182	182
PCB-138	ND	3.35	C	163/164	PCB-188	ND	3.43		
PCB-139	ND	4.14	C	149	PCB-189	ND	3.49		
PCB-140	ND	4.22			PCB-190	ND	3.78		
PCB-141	ND	4.31			PCB-191	ND	3.58		
PCB-142	2750	-			PCB-192	2240	-		
PCB-143	-	-	C134	134	PCB-193	ND	3.48		
PCB-144	ND	4.19			PCB-194	ND	6.82		
PCB-145	ND	3.42			PCB-195	ND	7.56		
PCB-146	ND	3.64	C	165	PCB-196	ND	4.36	C	203
PCB-147	ND	4.04			PCB-197	37.1	-		
PCB-148	ND	4.25			PCB-198	ND	4.55		
PCB-149	-	-	C139	139	PCB-199	ND	4.83		
PCB-150	ND	3.33			PCB-200	ND	3.25		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 9967-001-SA
Client ID: LDW-CS-C1-S010-PW-TB
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: 07-01-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.16		
PCB-202	ND	3.30		
PCB-203	-	-	C196	196
PCB-204	4040	-		
PCB-205	ND	5.54		
PCB-206	ND	7.44		
PCB-207	20.5	-		
PCB-208	ND	5.77		
PCB-209	19.3	-	J	

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	89.6	5.00 - 145	
13C-PCB-3	87.2	5.00 - 145	
13C-PCB-4	98.7	5.00 - 145	
13C-PCB-15	86.5	5.00 - 145	
13C-PCB-19	92.8	5.00 - 145	
13C-PCB-37	93.4	5.00 - 145	
13C-PCB-54	99.1	5.00 - 145	
13C-PCB-77	101	10.0 - 145	
13C-PCB-81	98.6	10.0 - 145	
13C-PCB-104	98.5	10.0 - 145	
13C-PCB-105	104	10.0 - 145	
13C-PCB-114	109	10.0 - 145	
13C-PCB-118	110	10.0 - 145	
13C-PCB-123	105	10.0 - 145	
13C-PCB-126	103	10.0 - 145	
13C-PCB-155	95.7	10.0 - 145	
13C-PCB-156	97.0	10.0 - 145	
13C-PCB-157	103	10.0 - 145	
13C-PCB-167	104	10.0 - 145	
13C-PCB-169	97.0	10.0 - 145	
13C-PCB-188	96.4	10.0 - 145	
13C-PCB-189	96.1	10.0 - 145	
13C-PCB-202	94.2	10.0 - 145	
13C-PCB-205	99.0	10.0 - 145	
13C-PCB-206	87.6	10.0 - 145	
13C-PCB-208	88.8	10.0 - 145	
13C-PCB-209	82.4	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	109	5.00 - 145	
13C-PCB-111	108	10.0 - 145	
13C-PCB-178	104	10.0 - 145	

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

Analyst: _____

Date: 7/5/2016

Reviewed By: _____

Date: 7/5/2016

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EPA Method 1668
PCBs

FAL ID: 9967-002-SA
Client ID: LDW-CS-C2-S010-PW-TB
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: 07-01-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016
Total Conc: 31400

Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	6.38		
PCB-2	ND	8.11		
PCB-3	ND	8.62		
PCB-4	ND	8.39		
PCB-5	ND	7.91		
PCB-6	ND	7.73		
PCB-7	ND	7.82		
PCB-8	ND	8.11		
PCB-9	ND	8.01		
PCB-10	ND	9.04		
PCB-11	41.8	-		
PCB-12	ND	8.65		
PCB-13	ND	9.29		
PCB-14	3840	-		
PCB-15	ND	9.63		
PCB-16	ND	3.78		
PCB-17	ND	3.88		
PCB-18	ND	4.28		
PCB-19	ND	4.14		
PCB-20	ND	6.86	C	21/33
PCB-21	-	-	C020	20/33
PCB-22	ND	7.51		
PCB-23	ND	7.22		
PCB-24	ND	2.96		
PCB-25	ND	6.37		
PCB-26	ND	7.02		
PCB-27	ND	2.93		
PCB-28	ND	5.92		
PCB-29	ND	7.08		
PCB-30	ND	2.79		
PCB-31	ND	7.49		
PCB-32	ND	3.13		
PCB-33	-	-	C020	20/21
PCB-34	ND	7.27		
PCB-35	ND	7.49		
PCB-36	3780	-		
PCB-37	ND	6.96		
PCB-38	ND	6.65		
PCB-39	ND	7.55		
PCB-40	ND	5.86		
PCB-41	ND	3.54	C	64/71/72
PCB-42	ND	3.88	C	59
PCB-43	ND	4.45	C	49
PCB-44	ND	5.14		
PCB-45	ND	5.00		
PCB-46	ND	5.46		
PCB-47	ND	3.89		
PCB-48	ND	3.65	C	75
PCB-49	-	-	C043	43
PCB-50	9.28	-	J	
PCB-51	ND	4.74		
PCB-52	ND	3.59	C	69
PCB-53	ND	4.66		
PCB-54	ND	3.48		
PCB-55	35.0	-		
PCB-56	ND	7.51	C	60
PCB-57	ND	3.40		
PCB-58	ND	3.55		
PCB-59	-	-	C042	42
PCB-60	-	-	C056	56
PCB-61	ND	3.45	C	70
PCB-62	ND	3.88		
PCB-63	ND	3.43		
PCB-64	-	-	C041	41/71/72
PCB-65	ND	3.41		
PCB-66	ND	3.33	C	76
PCB-67	ND	3.55		
PCB-68	7.67	-	J	
PCB-69	-	-	C052	52
PCB-70	-	-	C061	61
PCB-71	-	-	C041	41/64/72
PCB-72	-	-	C041	41/64/71
PCB-73	16.1	-	J	
PCB-74	ND	3.34		
PCB-75	-	-	C048	48
PCB-76	-	-	C066	66
PCB-77	ND	7.93		
PCB-78	2920	-		
PCB-79	ND	7.34		
PCB-80	ND	3.08		
PCB-81	ND	6.72		
PCB-82	ND	6.77		
PCB-83	ND	4.97	C	112
PCB-84	ND	5.84	C	92
PCB-85	ND	4.69	C	116
PCB-86	ND	6.58		
PCB-87	ND	4.40	C	117/125
PCB-88	ND	4.02	C	91
PCB-89	ND	5.92		
PCB-90	ND	5.33	C	101
PCB-91	-	-	C088	88
PCB-92	-	-	C084	84
PCB-93	15.5	-	J	
PCB-94	ND	4.59		
PCB-95	ND	4.30		
PCB-96	ND	3.06		
PCB-97	ND	5.17		
PCB-98	ND	3.54	C	102
PCB-99	ND	5.17		
PCB-100	ND	3.86		

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EPA Method 1668
PCBs

FAL ID: 9967-002-SA
Client ID: LDW-CS-C2-S010-PW-TB
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: 07-01-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	3.83		
PCB-102	-	-	C098	98	PCB-152	ND	3.52		
PCB-103	ND	3.64			PCB-153	ND	3.08		
PCB-104	2600	-			PCB-154	ND	4.18		
PCB-105	ND	3.34			PCB-155	2820	-		
PCB-106	ND	3.27	C	118	PCB-156	ND	3.29		
PCB-107	ND	3.41	C	108	PCB-157	ND	3.33		
PCB-108	-	-	C107	107	PCB-158	ND	2.88	C	160
PCB-109	ND	4.44			PCB-159	ND	2.78		
PCB-110	ND	3.94			PCB-160	-	-	C158	158
PCB-111	ND	3.87	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.34			PCB-163	-	-	C138	138/164
PCB-114	ND	3.25			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	2.99		
PCB-117	-	-	C087	87/125	PCB-167	ND	2.98		
PCB-118	-	-	C106	106	PCB-168	ND	2.93		
PCB-119	ND	4.02			PCB-169	ND	3.52		
PCB-120	ND	3.90			PCB-170	ND	5.58		
PCB-121	3080	-			PCB-171	ND	4.82		
PCB-122	ND	2.93			PCB-172	81.7	-		
PCB-123	ND	2.86			PCB-173	ND	5.46		
PCB-124	ND	3.08			PCB-174	ND	4.54		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.64		
PCB-126	ND	3.86			PCB-176	ND	3.47		
PCB-127	ND	3.33			PCB-177	ND	5.10		
PCB-128	ND	3.57	C	162	PCB-178	ND	4.77		
PCB-129	ND	4.41			PCB-179	ND	3.40		
PCB-130	ND	4.09			PCB-180	ND	4.41		
PCB-131	ND	3.76	C	133	PCB-181	ND	5.30		
PCB-132	ND	3.35	C	161	PCB-182	ND	4.41	C	187
PCB-133	-	-	C131	131	PCB-183	ND	4.34		
PCB-134	ND	3.78	C	143	PCB-184	3160	-		
PCB-135	ND	3.95			PCB-185	ND	4.94		
PCB-136	ND	3.68			PCB-186	ND	3.60		
PCB-137	ND	3.98			PCB-187	-	-	C182	182
PCB-138	ND	2.88	C	163/164	PCB-188	ND	3.73		
PCB-139	ND	3.55	C	149	PCB-189	ND	3.70		
PCB-140	ND	3.62			PCB-190	ND	4.07		
PCB-141	ND	3.70			PCB-191	ND	3.85		
PCB-142	2660	-			PCB-192	2260	-		
PCB-143	-	-	C134	134	PCB-193	ND	3.74		
PCB-144	ND	3.60			PCB-194	ND	6.51		
PCB-145	ND	3.75			PCB-195	ND	7.22		
PCB-146	ND	3.12	C	165	PCB-196	ND	3.75	C	203
PCB-147	ND	3.47			PCB-197	40.3	-		
PCB-148	ND	4.66			PCB-198	ND	3.91		
PCB-149	-	-	C139	139	PCB-199	ND	4.16		
PCB-150	ND	3.65			PCB-200	ND	2.79		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 9967-002-SA
Client ID: LDW-CS-C2-S010-PW-TB
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: 07-01-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.71		
PCB-202	ND	2.84		
PCB-203	-	-	C196	196
PCB-204	3960	-		
PCB-205	ND	5.29		
PCB-206	ND	4.95		
PCB-207	20.8	-		
PCB-208	ND	3.09		
PCB-209	18.2	-	J	

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	95.8	5.00 - 145	
13C-PCB-3	93.2	5.00 - 145	
13C-PCB-4	105	5.00 - 145	
13C-PCB-15	95.0	5.00 - 145	
13C-PCB-19	95.1	5.00 - 145	
13C-PCB-37	101	5.00 - 145	
13C-PCB-54	105	5.00 - 145	
13C-PCB-77	105	10.0 - 145	
13C-PCB-81	103	10.0 - 145	
13C-PCB-104	104	10.0 - 145	
13C-PCB-105	110	10.0 - 145	
13C-PCB-114	115	10.0 - 145	
13C-PCB-118	118	10.0 - 145	
13C-PCB-123	111	10.0 - 145	
13C-PCB-126	110	10.0 - 145	
13C-PCB-155	99.5	10.0 - 145	
13C-PCB-156	104	10.0 - 145	
13C-PCB-157	108	10.0 - 145	
13C-PCB-167	110	10.0 - 145	
13C-PCB-169	99.2	10.0 - 145	
13C-PCB-188	98.0	10.0 - 145	
13C-PCB-189	100	10.0 - 145	
13C-PCB-202	96.4	10.0 - 145	
13C-PCB-205	102	10.0 - 145	
13C-PCB-206	90.1	10.0 - 145	
13C-PCB-208	91.6	10.0 - 145	
13C-PCB-209	86.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	113	5.00 - 145	
13C-PCB-111	108	10.0 - 145	
13C-PCB-178	106	10.0 - 145	

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

Analyst: _____

Date: 7/5/16

Reviewed By: _____

Date: 7/5/16

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EPA Method 1668
PCBs

FAL ID: 9967-003-SA
Client ID: LDW-CS-C3-S010-PW-TB
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: 07-01-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016
Total Conc: 30600

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	6.51			PCB-51	ND	3.35		
PCB-2	ND	8.35			PCB-52	ND	2.54	C	69
PCB-3	ND	9.01			PCB-53	ND	3.30		
PCB-4	ND	7.77			PCB-54	ND	2.46		
PCB-5	ND	7.76			PCB-55	32.7	-		
PCB-6	ND	7.58			PCB-56	ND	7.05	C	60
PCB-7	ND	7.67			PCB-57	ND	2.40		
PCB-8	ND	7.96			PCB-58	ND	2.51		
PCB-9	ND	7.87			PCB-59	-	-	C042	42
PCB-10	ND	8.87			PCB-60	-	-	C056	56
PCB-11	35.3	-			PCB-61	ND	2.44	C	70
PCB-12	ND	8.49			PCB-62	ND	2.74		
PCB-13	ND	9.11			PCB-63	ND	2.42		
PCB-14	3680	-			PCB-64	-	-	C041	41/71/72
PCB-15	ND	9.82			PCB-65	ND	2.42		
PCB-16	ND	4.31			PCB-66	ND	2.35	C	76
PCB-17	ND	4.43			PCB-67	ND	2.51		
PCB-18	ND	4.88			PCB-68	7.37	-	J	
PCB-19	ND	4.71			PCB-69	-	-	C052	52
PCB-20	ND	8.41	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	9.21			PCB-72	-	-	C041	41/64/71
PCB-23	ND	8.85			PCB-73	15.4	-	J	
PCB-24	ND	3.37			PCB-74	ND	2.36		
PCB-25	ND	7.81			PCB-75	-	-	C048	48
PCB-26	ND	8.60			PCB-76	-	-	C066	66
PCB-27	ND	3.34			PCB-77	ND	7.58		
PCB-28	ND	7.25			PCB-78	2790	-		
PCB-29	ND	8.68			PCB-79	ND	6.89		
PCB-30	ND	3.18			PCB-80	ND	2.18		
PCB-31	ND	9.18			PCB-81	ND	6.18		
PCB-32	ND	3.56			PCB-82	ND	6.61		
PCB-33	-	-	C020	20/21	PCB-83	ND	4.85	C	112
PCB-34	ND	8.92			PCB-84	ND	5.70	C	92
PCB-35	ND	9.18			PCB-85	ND	4.58	C	116
PCB-36	3500	-			PCB-86	ND	6.42		
PCB-37	ND	8.53			PCB-87	ND	4.29	C	117/125
PCB-38	ND	8.16			PCB-88	ND	5.89	C	91
PCB-39	ND	9.25			PCB-89	ND	5.78		
PCB-40	ND	4.14			PCB-90	ND	5.21	C	101
PCB-41	ND	2.50	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	2.74	C	59	PCB-92	-	-	C084	84
PCB-43	ND	3.15	C	49	PCB-93	15.2	-	J	
PCB-44	ND	3.63			PCB-94	ND	6.73		
PCB-45	ND	3.54			PCB-95	ND	6.30		
PCB-46	ND	3.86			PCB-96	ND	4.48		
PCB-47	ND	2.75			PCB-97	ND	5.05		
PCB-48	ND	2.58	C	75	PCB-98	ND	5.20	C	102
PCB-49	-	-	C043	43	PCB-99	ND	5.05		
PCB-50	8.46	-	J		PCB-100	ND	5.66		

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EPA Method 1668
PCBs

FAL ID: 9967-003-SA
Client ID: LDW-CS-C3-S010-PW-TB
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: 07-01-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	3.95		
PCB-102	-	-	C098	98	PCB-152	ND	3.14		
PCB-103	ND	5.34			PCB-153	ND	3.17		
PCB-104	2300	-			PCB-154	ND	3.73		
PCB-105	ND	3.38			PCB-155	2690	-		
PCB-106	ND	3.84	C	118	PCB-156	ND	3.16		
PCB-107	ND	3.81	C	108	PCB-157	ND	3.28		
PCB-108	-	-	C107	107	PCB-158	ND	2.97	C	160
PCB-109	ND	4.33			PCB-159	ND	2.87		
PCB-110	ND	3.85			PCB-160	-	-	C158	158
PCB-111	ND	3.77	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.24			PCB-163	-	-	C138	138/164
PCB-114	ND	3.68			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.09		
PCB-117	-	-	C087	87/125	PCB-167	ND	2.99		
PCB-118	-	-	C106	106	PCB-168	ND	3.03		
PCB-119	ND	3.92			PCB-169	ND	4.22		
PCB-120	ND	3.81			PCB-170	ND	4.71		
PCB-121	2930	-			PCB-171	ND	4.07		
PCB-122	ND	3.27			PCB-172	80.6	-		
PCB-123	ND	3.31			PCB-173	ND	4.61		
PCB-124	ND	3.44			PCB-174	ND	3.83		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.92		
PCB-126	ND	4.79			PCB-176	ND	2.93		
PCB-127	ND	3.72			PCB-177	ND	4.31		
PCB-128	ND	3.68	C	162	PCB-178	ND	4.03		
PCB-129	ND	4.55			PCB-179	ND	2.87		
PCB-130	ND	4.22			PCB-180	ND	3.72		
PCB-131	ND	3.88	C	133	PCB-181	ND	4.48		
PCB-132	ND	3.45	C	161	PCB-182	ND	3.72	C	187
PCB-133	-	-	C131	131	PCB-183	ND	3.67		
PCB-134	ND	3.90	C	143	PCB-184	3230	-		
PCB-135	ND	4.07			PCB-185	ND	4.18		
PCB-136	ND	3.29			PCB-186	ND	3.04		
PCB-137	ND	4.11			PCB-187	-	-	C182	182
PCB-138	ND	2.97	C	163/164	PCB-188	ND	3.09		
PCB-139	ND	3.66	C	149	PCB-189	ND	3.20		
PCB-140	ND	3.73			PCB-190	ND	3.43		
PCB-141	ND	3.81			PCB-191	ND	3.25		
PCB-142	2580	-			PCB-192	2390	-		
PCB-143	-	-	C134	134	PCB-193	ND	3.16		
PCB-144	ND	3.71			PCB-194	ND	5.20		
PCB-145	ND	3.34			PCB-195	ND	5.77		
PCB-146	ND	3.22	C	165	PCB-196	ND	3.98	C	203
PCB-147	ND	3.58			PCB-197	38.9	-		
PCB-148	ND	4.15			PCB-198	ND	4.15		
PCB-149	-	-	C139	139	PCB-199	ND	4.41		
PCB-150	ND	3.25			PCB-200	ND	2.96		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 9967-003-SA
Client ID: LDW-CS-C3-S010-PW-TB
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: 07-01-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.88		
PCB-202	ND	3.01		
PCB-203	-	-	C196	196
PCB-204	4240	-		
PCB-205	ND	4.22		
PCB-206	ND	4.86		
PCB-207	22.7	-		
PCB-208	ND	3.58		
PCB-209	19.8	-	J	

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	91.0	5.00 - 145	
13C-PCB-3	84.8	5.00 - 145	
13C-PCB-4	96.7	5.00 - 145	
13C-PCB-15	85.2	5.00 - 145	
13C-PCB-19	92.0	5.00 - 145	
13C-PCB-37	91.2	5.00 - 145	
13C-PCB-54	99.5	5.00 - 145	
13C-PCB-77	98.8	10.0 - 145	
13C-PCB-81	97.9	10.0 - 145	
13C-PCB-104	99.4	10.0 - 145	
13C-PCB-105	104	10.0 - 145	
13C-PCB-114	108	10.0 - 145	
13C-PCB-118	108	10.0 - 145	
13C-PCB-123	106	10.0 - 145	
13C-PCB-126	105	10.0 - 145	
13C-PCB-155	95.5	10.0 - 145	
13C-PCB-156	98.1	10.0 - 145	
13C-PCB-157	104	10.0 - 145	
13C-PCB-167	104	10.0 - 145	
13C-PCB-169	96.3	10.0 - 145	
13C-PCB-188	93.4	10.0 - 145	
13C-PCB-189	94.8	10.0 - 145	
13C-PCB-202	92.3	10.0 - 145	
13C-PCB-205	98.5	10.0 - 145	
13C-PCB-206	85.7	10.0 - 145	
13C-PCB-208	88.7	10.0 - 145	
13C-PCB-209	81.8	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	104	5.00 - 145	
13C-PCB-111	102	10.0 - 145	
13C-PCB-178	98.1	10.0 - 145	

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

Analyst: _____

Date: 7/5/16

Reviewed By: _____

Date: 7/5/16

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EPA Method 1668
PCBs

FAL ID: 9967-004-SA
Client ID: LDW-CS-C4-S010-PW-MB
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: 07-01-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016
Total Conc: 1360

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	7.26			PCB-51	ND	5.01		
PCB-2	ND	8.85			PCB-52	ND	3.80	C	69
PCB-3	ND	9.11			PCB-53	ND	4.92		
PCB-4	ND	8.34			PCB-54	ND	3.68		
PCB-5	ND	8.06			PCB-55	ND	3.71		
PCB-6	ND	7.88			PCB-56	ND	4.30	C	60
PCB-7	ND	7.97			PCB-57	ND	3.59		
PCB-8	ND	8.26			PCB-58	ND	3.76		
PCB-9	ND	8.17			PCB-59	-	-	C042	42
PCB-10	ND	9.21			PCB-60	-	-	C056	56
PCB-11	ND	8.92			PCB-61	ND	3.65	C	70
PCB-12	ND	8.82			PCB-62	ND	4.10		
PCB-13	ND	9.46			PCB-63	ND	3.62		
PCB-14	ND	8.47			PCB-64	-	-	C041	41/71/72
PCB-15	ND	9.99			PCB-65	ND	3.61		
PCB-16	ND	4.51			PCB-66	ND	3.52	C	76
PCB-17	ND	4.63			PCB-67	ND	3.75		
PCB-18	ND	5.10			PCB-68	ND	3.55		
PCB-19	ND	4.93			PCB-69	-	-	C052	52
PCB-20	ND	5.47	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	5.99			PCB-72	-	-	C041	41/64/71
PCB-23	ND	5.75			PCB-73	ND	3.98		
PCB-24	ND	3.53			PCB-74	ND	3.53		
PCB-25	ND	5.08			PCB-75	-	-	C048	48
PCB-26	ND	5.59			PCB-76	-	-	C066	66
PCB-27	ND	3.49			PCB-77	ND	4.54		
PCB-28	ND	4.72			PCB-78	21.7	-		
PCB-29	ND	5.64			PCB-79	ND	4.21		
PCB-30	ND	3.32			PCB-80	ND	3.26		
PCB-31	ND	5.97			PCB-81	ND	3.85		
PCB-32	ND	3.73			PCB-82	ND	9.26		
PCB-33	-	-	C020	20/21	PCB-83	ND	6.80	C	112
PCB-34	ND	5.80			PCB-84	ND	7.98	C	92
PCB-35	ND	5.97			PCB-85	ND	6.42	C	116
PCB-36	ND	5.80			PCB-86	ND	9.00		
PCB-37	ND	5.55			PCB-87	ND	6.01	C	117/125
PCB-38	ND	5.31			PCB-88	ND	6.45	C	91
PCB-39	ND	6.02			PCB-89	ND	8.09		
PCB-40	ND	6.19			PCB-90	ND	7.29	C	101
PCB-41	ND	3.74	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	4.10	C	59	PCB-92	-	-	C084	84
PCB-43	ND	4.70	C	49	PCB-93	ND	7.40		
PCB-44	ND	5.43			PCB-94	ND	7.38		
PCB-45	ND	5.29			PCB-95	ND	6.90		
PCB-46	ND	5.77			PCB-96	ND	4.91		
PCB-47	ND	4.11			PCB-97	ND	7.07		
PCB-48	ND	3.86	C	75	PCB-98	ND	5.69	C	102
PCB-49	-	-	C043	43	PCB-99	ND	7.07		
PCB-50	ND	4.69			PCB-100	ND	6.20		

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EPA Method 1668
PCBs

FAL ID: 9967-004-SA
Client ID: LDW-CS-C4-S010-PW-MB
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: 07-01-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	5.22		
PCB-102	-	-	C098	98	PCB-152	ND	3.51		
PCB-103	ND	5.85			PCB-153	ND	4.19		
PCB-104	ND	4.60			PCB-154	ND	4.16		
PCB-105	ND	4.40			PCB-155	1310	-		
PCB-106	ND	4.87	C	118	PCB-156	ND	4.30		
PCB-107	ND	4.86	C	108	PCB-157	ND	4.36		
PCB-108	-	-	C107	107	PCB-158	ND	3.93	C	160
PCB-109	ND	6.07			PCB-159	ND	3.79		
PCB-110	ND	5.39			PCB-160	-	-	C158	158
PCB-111	ND	5.29	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.93			PCB-163	-	-	C138	138/164
PCB-114	ND	4.60			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.08		
PCB-117	-	-	C087	87/125	PCB-167	ND	4.19		
PCB-118	-	-	C106	106	PCB-168	ND	4.00		
PCB-119	ND	5.50			PCB-169	ND	5.07		
PCB-120	ND	5.33			PCB-170	ND	9.92		
PCB-121	ND	5.38			PCB-171	ND	8.57		
PCB-122	ND	4.18			PCB-172	ND	9.18		
PCB-123	ND	4.27			PCB-173	ND	9.70		
PCB-124	ND	4.40			PCB-174	ND	8.07		
PCB-125	-	-	C087	87/117	PCB-175	ND	8.25		
PCB-126	ND	5.79			PCB-176	ND	6.17		
PCB-127	ND	4.76			PCB-177	ND	9.07		
PCB-128	ND	4.87	C	162	PCB-178	ND	8.49		
PCB-129	ND	6.01			PCB-179	ND	6.05		
PCB-130	ND	5.57			PCB-180	ND	7.84		
PCB-131	ND	5.12	C	133	PCB-181	ND	9.42		
PCB-132	ND	4.56	C	161	PCB-182	ND	7.83	C	187
PCB-133	-	-	C131	131	PCB-183	ND	7.72		
PCB-134	ND	5.15	C	143	PCB-184	13.9	-	J	
PCB-135	ND	5.38			PCB-185	ND	8.79		
PCB-136	ND	3.67			PCB-186	ND	6.41		
PCB-137	ND	5.43			PCB-187	-	-	C182	182
PCB-138	ND	3.92	C	163/164	PCB-188	ND	6.26		
PCB-139	ND	4.84	C	149	PCB-189	ND	7.06		
PCB-140	ND	4.93			PCB-190	ND	7.23		
PCB-141	ND	5.04			PCB-191	ND	6.85		
PCB-142	ND	5.59			PCB-192	ND	7.21		
PCB-143	-	-	C134	134	PCB-193	ND	6.66		
PCB-144	ND	4.91			PCB-194	ND	5.67		
PCB-145	ND	3.73			PCB-195	ND	6.29		
PCB-146	ND	4.26	C	165	PCB-196	ND	6.29	C	203
PCB-147	ND	4.73			PCB-197	ND	4.67		
PCB-148	ND	4.64			PCB-198	ND	6.56		
PCB-149	-	-	C139	139	PCB-199	ND	6.98		
PCB-150	ND	3.63			PCB-200	ND	4.68		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 9967-004-SA
Client ID: LDW-CS-C4-S010-PW-MB
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: 07-01-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	4.55		
PCB-202	ND	4.77		
PCB-203	-	-	C196	196
PCB-204	11.9	-	J	
PCB-205	ND	4.61		
PCB-206	ND	7.36		
PCB-207	ND	5.66		
PCB-208	ND	5.13		
PCB-209	ND	5.58		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	89.3	5.00 - 145	
13C-PCB-3	85.2	5.00 - 145	
13C-PCB-4	97.8	5.00 - 145	
13C-PCB-15	85.2	5.00 - 145	
13C-PCB-19	92.9	5.00 - 145	
13C-PCB-37	90.8	5.00 - 145	
13C-PCB-54	93.8	5.00 - 145	
13C-PCB-77	98.1	10.0 - 145	
13C-PCB-81	95.6	10.0 - 145	
13C-PCB-104	94.7	10.0 - 145	
13C-PCB-105	99.9	10.0 - 145	
13C-PCB-114	105	10.0 - 145	
13C-PCB-118	102	10.0 - 145	
13C-PCB-123	101	10.0 - 145	
13C-PCB-126	102	10.0 - 145	
13C-PCB-155	93.8	10.0 - 145	
13C-PCB-156	97.2	10.0 - 145	
13C-PCB-157	100	10.0 - 145	
13C-PCB-167	101	10.0 - 145	
13C-PCB-169	95.6	10.0 - 145	
13C-PCB-188	91.9	10.0 - 145	
13C-PCB-189	93.1	10.0 - 145	
13C-PCB-202	92.0	10.0 - 145	
13C-PCB-205	96.6	10.0 - 145	
13C-PCB-206	86.2	10.0 - 145	
13C-PCB-208	87.0	10.0 - 145	
13C-PCB-209	83.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	104	5.00 - 145	
13C-PCB-111	103	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: _____

Date: 7/5/2016

Reviewed By: _____

Date: 7/5/2016

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 9967-005-SA
Client ID: LDW-CS-C5-S010-PW-MB
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: 07-01-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016
Total Conc: 2220

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	6.18			PCB-51	ND	3.77		
PCB-2	ND	7.83			PCB-52	ND	2.86	C	69
PCB-3	ND	8.27			PCB-53	ND	3.71		
PCB-4	ND	8.61			PCB-54	ND	2.77		
PCB-5	ND	7.93			PCB-55	ND	2.79		
PCB-6	ND	7.75			PCB-56	ND	3.06	C	60
PCB-7	ND	7.84			PCB-57	ND	2.70		
PCB-8	ND	8.13			PCB-58	ND	2.83		
PCB-9	ND	8.04			PCB-59	-	-	C042	42
PCB-10	ND	9.06			PCB-60	-	-	C056	56
PCB-11	ND	8.78			PCB-61	ND	2.75	C	70
PCB-12	ND	8.68			PCB-62	ND	3.09		
PCB-13	ND	9.31			PCB-63	ND	2.73		
PCB-14	ND	8.34			PCB-64	-	-	C041	41/71/72
PCB-15	ND	9.51			PCB-65	ND	2.72		
PCB-16	ND	3.82			PCB-66	ND	2.65	C	76
PCB-17	ND	3.93			PCB-67	ND	2.82		
PCB-18	ND	4.33			PCB-68	ND	2.68		
PCB-19	ND	4.18			PCB-69	-	-	C052	52
PCB-20	ND	4.32	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	4.72			PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.54			PCB-73	ND	3.00		
PCB-24	ND	3.00			PCB-74	ND	2.66		
PCB-25	ND	4.01			PCB-75	-	-	C048	48
PCB-26	ND	4.42			PCB-76	-	-	C066	66
PCB-27	ND	2.96			PCB-77	ND	3.30		
PCB-28	ND	3.72			PCB-78	30.3	-		
PCB-29	ND	4.45			PCB-79	ND	2.99		
PCB-30	ND	2.82			PCB-80	ND	2.45		
PCB-31	ND	4.71			PCB-81	ND	2.67		
PCB-32	ND	3.16			PCB-82	ND	6.67		
PCB-33	-	-	C020	20/21	PCB-83	ND	4.90	C	112
PCB-34	ND	4.58			PCB-84	ND	5.75	C	92
PCB-35	ND	4.71			PCB-85	ND	4.62	C	116
PCB-36	ND	4.58			PCB-86	ND	6.48		
PCB-37	ND	4.38			PCB-87	ND	4.33	C	117/125
PCB-38	ND	4.19			PCB-88	ND	5.60	C	91
PCB-39	ND	4.75			PCB-89	ND	5.83		
PCB-40	ND	4.66			PCB-90	ND	5.25	C	101
PCB-41	ND	2.81	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	3.09	C	59	PCB-92	-	-	C084	84
PCB-43	ND	3.54	C	49	PCB-93	ND	6.42		
PCB-44	ND	4.09			PCB-94	ND	6.40		
PCB-45	ND	3.98			PCB-95	ND	5.99		
PCB-46	ND	4.35			PCB-96	ND	4.26		
PCB-47	ND	3.09			PCB-97	ND	5.10		
PCB-48	ND	2.91	C	75	PCB-98	ND	4.94	C	102
PCB-49	-	-	C043	43	PCB-99	ND	5.10		
PCB-50	ND	3.53			PCB-100	ND	5.38		

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EPA Method 1668
PCBs

FAL ID: 9967-005-SA
Client ID: LDW-CS-C5-S010-PW-MB
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: 07-01-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	4.05		
PCB-102	-	-	C098	98	PCB-152	ND	3.38		
PCB-103	ND	5.07			PCB-153	ND	3.25		
PCB-104	ND	3.99			PCB-154	ND	4.01		
PCB-105	ND	3.47			PCB-155	2160	-		
PCB-106	ND	3.75	C	118	PCB-156	ND	3.45		
PCB-107	ND	3.68	C	108	PCB-157	ND	3.55		
PCB-108	-	-	C107	107	PCB-158	ND	3.04	C	160
PCB-109	ND	4.37			PCB-159	ND	2.94		
PCB-110	ND	3.88			PCB-160	-	-	C158	158
PCB-111	ND	3.81	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.28			PCB-163	-	-	C138	138/164
PCB-114	ND	3.42			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.16		
PCB-117	-	-	C087	87/125	PCB-167	ND	3.15		
PCB-118	-	-	C106	106	PCB-168	ND	3.10		
PCB-119	ND	3.96			PCB-169	ND	3.72		
PCB-120	ND	3.84			PCB-170	ND	9.82		
PCB-121	ND	4.66			PCB-171	ND	8.49		
PCB-122	ND	3.17			PCB-172	ND	9.09		
PCB-123	ND	3.11			PCB-173	ND	9.61		
PCB-124	ND	3.34			PCB-174	ND	7.99		
PCB-125	-	-	C087	87/117	PCB-175	ND	8.17		
PCB-126	ND	4.42			PCB-176	ND	6.11		
PCB-127	ND	3.60			PCB-177	ND	8.98		
PCB-128	ND	3.77	C	162	PCB-178	ND	8.40		
PCB-129	ND	4.66			PCB-179	ND	5.99		
PCB-130	ND	4.32			PCB-180	ND	7.76		
PCB-131	ND	3.97	C	133	PCB-181	ND	9.33		
PCB-132	ND	3.54	C	161	PCB-182	ND	7.76	C	187
PCB-133	-	-	C131	131	PCB-183	ND	7.64		
PCB-134	ND	4.00	C	143	PCB-184	16.1	-	J	
PCB-135	ND	4.17			PCB-185	ND	8.70		
PCB-136	ND	3.53			PCB-186	ND	6.35		
PCB-137	ND	4.21			PCB-187	-	-	C182	182
PCB-138	ND	3.04	C	163/164	PCB-188	ND	6.07		
PCB-139	ND	3.75	C	149	PCB-189	ND	7.17		
PCB-140	ND	3.82			PCB-190	ND	7.16		
PCB-141	ND	3.91			PCB-191	ND	6.78		
PCB-142	ND	4.33			PCB-192	ND	7.14		
PCB-143	-	-	C134	134	PCB-193	ND	6.59		
PCB-144	ND	3.81			PCB-194	ND	3.97		
PCB-145	ND	3.59			PCB-195	ND	4.40		
PCB-146	ND	3.30	C	165	PCB-196	ND	6.19	C	203
PCB-147	ND	3.67			PCB-197	ND	4.60		
PCB-148	ND	4.47			PCB-198	ND	6.46		
PCB-149	-	-	C139	139	PCB-199	ND	6.87		
PCB-150	ND	3.50			PCB-200	ND	4.61		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 9967-005-SA
Client ID: LDW-CS-C5-S010-PW-MB
Matrix: Solvent
Batch No: X3753

Date Extracted: 07-01-2016
Date Received: 07-01-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-7-2-16
GC Column: DB1
Units: pg/sample

Acquired: 07-02-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	4.48		
PCB-202	ND	4.69		
PCB-203	-	-	C196	196
PCB-204	11.9	-	J	
PCB-205	ND	3.23		
PCB-206	ND	6.63		
PCB-207	ND	5.11		
PCB-208	ND	4.61		
PCB-209	ND	5.15		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	89.5	5.00 - 145	
13C-PCB-3	89.1	5.00 - 145	
13C-PCB-4	96.1	5.00 - 145	
13C-PCB-15	89.5	5.00 - 145	
13C-PCB-19	92.9	5.00 - 145	
13C-PCB-37	95.1	5.00 - 145	
13C-PCB-54	99.3	5.00 - 145	
13C-PCB-77	100	10.0 - 145	
13C-PCB-81	99.4	10.0 - 145	
13C-PCB-104	96.9	10.0 - 145	
13C-PCB-105	103	10.0 - 145	
13C-PCB-114	107	10.0 - 145	
13C-PCB-118	112	10.0 - 145	
13C-PCB-123	103	10.0 - 145	
13C-PCB-126	103	10.0 - 145	
13C-PCB-155	95.7	10.0 - 145	
13C-PCB-156	97.5	10.0 - 145	
13C-PCB-157	101	10.0 - 145	
13C-PCB-167	104	10.0 - 145	
13C-PCB-169	95.1	10.0 - 145	
13C-PCB-188	96.6	10.0 - 145	
13C-PCB-189	96.5	10.0 - 145	
13C-PCB-202	94.0	10.0 - 145	
13C-PCB-205	97.2	10.0 - 145	
13C-PCB-206	85.7	10.0 - 145	
13C-PCB-208	84.6	10.0 - 145	
13C-PCB-209	80.4	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	106	5.00 - 145	
13C-PCB-111	104	10.0 - 145	
13C-PCB-178	99.4	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: _____

Date: 7/5/2016

Reviewed By: _____

Date: 7/5/2016

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SiREM

Chain-of-Custody Form

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9967
80c

130 Stone Rd. W
Guelph, ON N1G 3Z2
(519) 822-2265

Lab #

*Project Name	LDWG
*Project #	HE1508, P01
*Project Manager	Jason Conder
*Company	Geosyntec
*Email Address	jconder@geosyntec.com
Address (Street)	2100 Main St
City	Huntington Beach
State/Province	California
Country	USA
*Phone #	714-465-1226
*Sampler's Signature	
*Sampler's Printed Name	Michael Healey

Analysis

Client Sample ID	Sampling Date	Sampling Time	Matrix	# of Containers	Gene-Trac DHC	Gene-Trac VC	Gene-Trac DHB	Gene-Trac DHG	Gene-Trac toeA	Volatile Fatty Acids	Dissolved hydrocarbon gases	Treatability Study	PCB Congeners EPA 1668C			Other Information
LDW-CS-C1-S010-PW-TB	6/29/16	4 PM	SPME/Hexane	1									✓			
LDW-CS-C2-S010-PW-TB	6/29/16	4 PM	SPME/Hexane	1									✓			
LDW-CS-C3-S010-PW-TB	6/29/16	4 PM	SPME/Hexane	1									✓			
LDW-CS-C4-S010-PW-MB	6/29/16	4 PM	SPME/Hexane	1									✓			
LDW-CS-C5-S010-PW-MB	6/29/16	4 PM	SPME/Hexane	1									✓			

Preservative Key
0. None
1. HCL
2. Other
3. Other
4. Other
5. Other
6. Other

Lab Calibration Study
Shipped by: FedEx
Waybill: 7765 3732 1226

Billing Information
P.O. #
*Bill To:

Turnaround Time Requested
Normal ☐
Rush ☒
3 day TAT

For Lab Use Only
Cooler Condition:
Cooler Temperature:
Custody Seals: Yes ☐ No ☐

For Lab Use Only
Proposal #:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: Michael Healey	Signature: [illegible]	Signature:	Signature:	Signature:	Signature:
Printed Name: Michael Healey	Printed Name: BRAD SUSSERMAN	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: SiREM Lab	Firm: Frontier	Firm:	Firm:	Firm:	Firm:
Date/Time: 8/2/16 / 4:00 pm.	Date/Time: 7/1/16 07:15	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - return to Originator: Yellow - Lab Copy: Pink - Retained by Client

** Mandatory Fields*

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **9967**

Client:	Geosyntec Consultants, Inc.
Client Project ID:	HE1508, P01
Date Received:	07/01/2016
Time Received:	07:15 am
Received By:	BS
Logged In By:	KZ
# of Samples Received:	5
Duplicates:	0
Storage Location:	R2

Method of Delivery:	Fed-Ex
Tracking Number:	776637333126
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	8
Cooling Method	Blue Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test aqueous sample for residual Chlorine	No
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	N/A
Anomalies or additional comments:	

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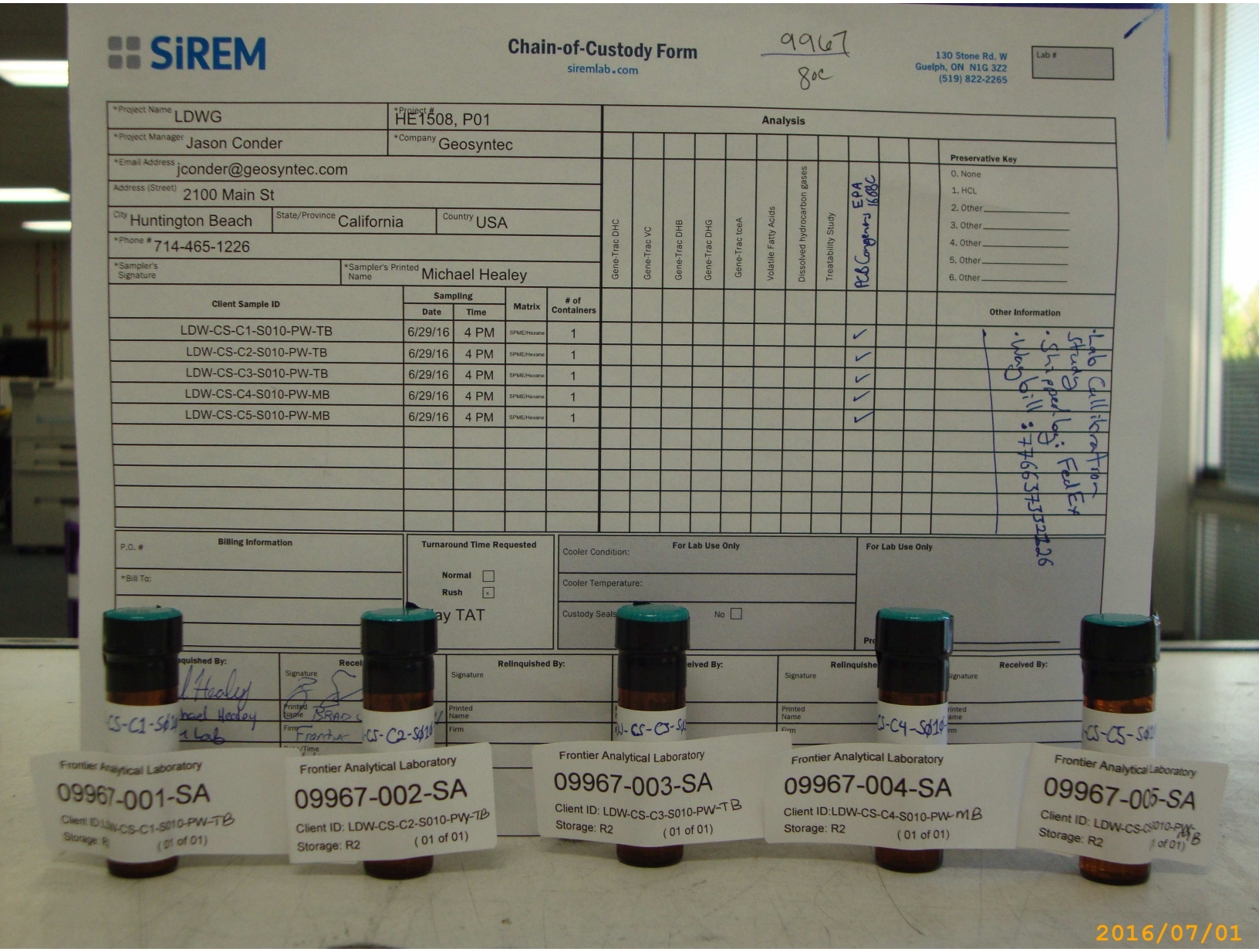

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3-DAY Rush!

Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #:	9967	Sample #:	1 - 5	Client Manager:	BS
Client:	Geosyntec Consultants, Inc.			Hold Time:	06/29/2017
Matrix:	Solvent	Extraction Batch:	3753	Due Date:	07/07/2016
Method:	EPA 1668 PCB			Storage:	R2
SOP:	SOPs: EP1A Rev.9 IP1A Rev.6				

COMMENTS/INSTRUCTIONS:

Results: 9967

Extract/s located in box: "Designated Skipper"

Standards: 9967

Instrument:

DB5	____
DB225	____
DB1	FAC-4
Other	____

Frontier Analytical Laboratory
EXTRACTION SHEET

Project #: 9967 Extraction Date: 2016-07-01 Extraction Chemist: DV

Method/Analysis: EPA 1668 PCB

Procedure: Solvent Dilution Solvent: Hexane

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS Amt: 10.0uL ID: R160602A Vial: 1 Chemist/Witness/Date	NS Amt: 10.0uL ID: R160523A Vial: 1 Chemist/Witness/Date	CSS Amt: 10.0uL ID: R160503C Vial: 1 Chemist/Witness/Date
03753-001-0001-MB	(4.50ml)	N/A	DPJ 7.1.16	N/A	DPJ 7.1.16
03753-001-0001-OPR	(4.50ml)			DPJ 7.1.16	
09967-001-0001-SA	4.51ml*			N/A	
09967-002-0001-SA	4.57ml*				
09967-003-0001-SA	4.20ml*				
09967-004-0001-SA	4.23ml*				
09967-005-0001-SA	4.18ml*				

AX-21 Charcoal Cleaned	130410	Acetone	158570	Acid Alumina	A0347591	Hexane	158646
Methanol	160903	Methylene Chloride (DCM)	160324	Silica Gel	TA1975634	Sodium Hydroxide 1N	151965
Sodium Sulfate	15J130001	Sulfuric Acid	158403	Tetradecane	147332	Toluene	56055
Water	160947	C-18 Empore Discs	320848D	Cyclohexane	55211		

Comments: * Approximate sample/extract volume. Used ≈ 4.50ml of hexane for MB & OPR matrix. DPJ 7.1.16

Frontier Analytical Laboratory
CLEANUP SHEET

Project #: 9967

Method/Analysis: EPA 1668 PCB

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

Sample ID	Cleanup 1	Cleanup 2	Cleanup 3	RS
	PCB · MSG	N/A	N/A	Amt: 10.0uL ID: 160622A Vial: 1
	Chemist/Date	Chemist/Date	Chemist/Date	Chemist/Witness/Date
03753-001-0001-MB	DN 7.1.16	N/A	N/A	DN KH 7.1.16
03753-001-0001-OPR	↓	↓	↓	↓
09967-001-0001-SA	↓	↓	↓	↓
09967-002-0001-SA	↓	↓	↓	↓
09967-003-0001-SA	↓	↓	↓	↓
09967-004-0001-SA	↓	↓	↓	↓
09967-005-0001-SA	↓	↓	↓	↓

AX-21 Charcoal Cleaned	130410	Acetone	158570	Acid Alumina	A0347591	Hexane	158646
Methanol	160903	Methylene Chloride (DCM)	160324	Silica Gel	TA1975634	Sodium Hydroxide 1N	151965
Sodium Sulfate	15J130001	Sulfuric Acid	158403	Tetradecane	147332	Toluene	56055
Water	160947	C-18 Empore Discs	320848D	Cyclohexane	55211		

Comments:

FAL ID: 03753-001-0001-MB Filename: 02JUL16Z Sam:4 Acquired: 2-JUL-16 14:09:44 ICal: DAILY209FAL4-7-2-16
Client ID: Method Blank ConCal: ST070216Z1 EndCal: ST070216Z2
Results: 9967 GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	* n	NotFnd	0.95	*		3770	2690	6.27	
13C-PCB-1	8.53e+07	3.08 y	14:20	1.24	9460					94.6
PCB-2	*	* n	NotFnd	0.89	*		3770	2690	7.94	
PCB-3	*	* n	NotFnd	0.99	*		3770	2690	8.37	
13C-PCB-3	7.84e+07	3.18 y	16:48	1.14	9470					94.7
PCB-4	*	* n	NotFnd	1.18	*		2840	1710	7.64	
PCB-10	*	* n	NotFnd	1.17	*		2840	1710	8.08	
13C-PCB-4	4.28e+07	1.59 y	18:01	0.59	9890					98.9
PCB-9	*	* n	NotFnd	1.32	*		2840	1710	7.17	
PCB-7	*	* n	NotFnd	1.35	*		2840	1710	6.99	
PCB-6	*	* n	NotFnd	1.37	*		2840	1710	6.91	
PCB-8	*	* n	NotFnd	1.30	*		2840	1710	7.25	
PCB-5	*	* n	NotFnd	1.34	*		2840	1710	7.07	
PCB-14	*	* n	NotFnd	1.27	*		2840	1710	7.43	
PCB-11	*	* n	NotFnd	1.21	*		2840	1710	7.83	
PCB-13	*	* n	NotFnd	1.14	*		2840	1710	8.30	
PCB-12	*	* n	NotFnd	1.22	*		2840	1710	7.74	
PCB-15	*	* n	NotFnd	1.15	*		2840	1710	8.50	
13C-PCB-15	6.08e+07	1.64 y	23:34	0.91	9140					91.4
PCB-19	*	* n	NotFnd	1.06	*		1270	1080	4.99	
PCB-30	*	* n	NotFnd	1.57	*		1270	1080	3.36	
PCB-18	*	* n	NotFnd	1.02	*		1270	1080	5.16	
PCB-17	*	* n	NotFnd	1.12	*		1270	1080	4.68	
PCB-27	*	* n	NotFnd	1.49	*		1270	1080	3.53	
PCB-24	*	* n	NotFnd	1.48	*		1270	1080	3.57	
PCB-16	*	* n	NotFnd	1.16	*		1270	1080	4.56	
PCB-32	*	* n	NotFnd	1.40	*		1270	1080	3.77	
13C-PCB-19	4.16e+07	1.07 y	21:54	0.59	9750					97.5
13C-PCB-9	7.28e+07	1.64 y	19:41	-	35.3					
PCB-34	*	* n	NotFnd	1.12	*		984	1040	5.57	
PCB-23	*	* n	NotFnd	1.13	*		984	1040	5.53	
PCB-29	*	* n	NotFnd	1.15	*		984	1040	5.42	
PCB-26	*	* n	NotFnd	1.16	*		984	1040	5.38	
PCB-25	*	* n	NotFnd	1.28	*		984	1040	4.88	
PCB-31	*	* n	NotFnd	1.09	*		984	1040	5.74	
PCB-28	*	* n	NotFnd	1.38	*		984	1040	4.54	
PCB-20	*	* n	NotFnd	1.19	*		984	1040	5.26	Co-elute PCB 21/33
PCB-21	*	* n	NotFnd	1.19	*		984	1040	5.26	Co-elute PCB 20/33
PCB-33	*	* n	NotFnd	1.19	*		984	1040	5.26	Co-elute PCB 20/21
PCB-22	*	* n	NotFnd	1.09	*		984	1040	5.76	
PCB-36	*	* n	NotFnd	1.12	*		984	1040	5.58	
PCB-39	*	* n	NotFnd	1.08	*		984	1040	5.79	
PCB-38	*	* n	NotFnd	1.23	*		984	1040	5.10	
PCB-35	*	* n	NotFnd	1.09	*		984	1040	5.74	
PCB-37	*	* n	NotFnd	1.17	*		984	1040	5.34	
13C-PCB-37	4.80e+07	1.10 y	30:13	1.21	9370					93.7

FAL ID: 03753-001-0001-MB Filename: 02JUL16Z Sam:4 Acquired: 2-JUL-16 ICal: DAILY209FAL4-7-2-16
Client ID: Method Blank ConCal: ST070216Z1 EndCal: ST070216Z2
Results: 9967 GC Column: DB1 Amount: 1.000

PCB-54	*	* n NotFnd	1.09	*	732	872	3.28	
PCB-50	*	* n NotFnd	0.86	*	732	872	4.17	
PCB-53	*	* n NotFnd	0.82	*	732	872	4.38	
PCB-51	*	* n NotFnd	0.80	*	732	872	4.46	
PCB-45	*	* n NotFnd	0.76	*	732	872	4.71	
PCB-46	*	* n NotFnd	0.70	*	732	872	5.14	
PCB-52	*	* n NotFnd	1.06	*	732	872	3.38	Co-elute PCB 69
PCB-69	*	* n NotFnd	1.06	*	732	872	3.38	Co-elute PCB 52
PCB-73	*	* n NotFnd	1.01	*	732	872	3.55	
PCB-43	*	* n NotFnd	0.85	*	732	872	4.19	Co-elute PCB 49
PCB-49	*	* n NotFnd	0.85	*	732	872	4.19	Co-elute PCB 43
PCB-47	*	* n NotFnd	0.98	*	732	872	3.66	
PCB-48	*	* n NotFnd	1.04	*	732	872	3.44	Co-elute PCB 75
PCB-75	*	* n NotFnd	1.04	*	732	872	3.44	Co-elute PCB 48
PCB-65	*	* n NotFnd	1.11	*	732	872	3.21	
PCB-62	*	* n NotFnd	0.98	*	732	872	3.65	
PCB-44	*	* n NotFnd	0.74	*	732	872	4.84	
PCB-42	*	* n NotFnd	0.98	*	732	872	3.65	Co-elute PCB 59
PCB-59	*	* n NotFnd	0.98	*	732	872	3.65	Co-elute PCB 42
PCB-72	*	* n NotFnd	1.07	*	732	872	3.33	Co-elute PCB 41/71/64
PCB-41	*	* n NotFnd	1.07	*	732	872	3.33	Co-elute PCB 72/71/64
PCB-71	*	* n NotFnd	1.07	*	732	872	3.33	Co-elute PCB 72/41/64
PCB-64	*	* n NotFnd	1.07	*	732	872	3.33	Co-elute PCB 72/41/71
PCB-68	*	* n NotFnd	1.13	*	732	872	3.16	
PCB-40	*	* n NotFnd	0.65	*	732	872	5.51	
PCB-57	*	* n NotFnd	1.12	*	732	872	3.20	
PCB-67	*	* n NotFnd	1.07	*	732	872	3.34	
PCB-58	*	* n NotFnd	1.07	*	732	872	3.34	
PCB-63	*	* n NotFnd	1.11	*	732	872	3.23	
PCB-74	*	* n NotFnd	1.14	*	732	872	3.14	
PCB-61	*	* n NotFnd	1.10	*	732	872	3.25	Co-elute PCB 70
PCB-70	*	* n NotFnd	1.10	*	732	872	3.25	Co-elute PCB 61
PCB-76	*	* n NotFnd	1.14	*	732	872	3.13	Co-elute PCB 66
PCB-66	*	* n NotFnd	1.14	*	732	872	3.13	Co-elute PCB 76
PCB-80	*	* n NotFnd	1.23	*	732	872	2.90	
PCB-55	*	* n NotFnd	1.08	*	732	872	3.30	
13C-PCB-54	4.57e+07	0.81 y 25:24	1.07	10000				100
PCB-104	*	* n NotFnd	1.23	*	976	1220	5.53	
PCB-96	*	* n NotFnd	1.15	*	976	1220	5.91	
PCB-103	*	* n NotFnd	0.96	*	976	1220	7.04	
PCB-100	*	* n NotFnd	0.91	*	976	1220	7.47	
PCB-94	*	* n NotFnd	0.76	*	976	1220	8.87	
PCB-98	*	* n NotFnd	0.99	*	976	1220	6.85	Co-elute PCB 102
PCB-102	*	* n NotFnd	0.99	*	976	1220	6.85	Co-elute PCB 98
PCB-95	*	* n NotFnd	0.82	*	976	1220	8.30	
PCB-93	*	* n NotFnd	0.76	*	976	1220	8.90	
PCB-88	*	* n NotFnd	0.87	*	976	1220	7.77	Co-elute PCB 91
PCB-91	*	* n NotFnd	0.87	*	976	1220	7.77	Co-elute PCB 88
PCB-121	*	* n NotFnd	1.05	*	976	1220	6.47	
13C-PCB-104	3.41e+07	1.60 y 29:51	0.81	9970				99.7
13C-PCB-28	6.37e+07	1.05 y 26:30	1.42	10600				106
13C-PCB-52	4.23e+07	0.79 y 28:45	-	34.0				

PCB-56	*	*	n	NotFnd	1.17	*	992	1210	7.18	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.17	*	992	1210	7.18	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.20	*	992	1210	7.02	
PCB-78	*	*	n	NotFnd	1.21	*	992	1210	6.96	
PCB-81	*	*	n	NotFnd	1.27	*	992	1210	6.36	
13C-PCB-81	3.64e+07	0.80	y	35:58	1.12	9150				91.5
PCB-77	*	*	n	NotFnd	1.14	*	992	1210	7.65	
13C-PCB-77	3.61e+07	0.80	y	36:32	1.10	9230				92.3
PCB-155	*	*	n	NotFnd	1.13	*	840	724	3.71	
PCB-150	*	*	n	NotFnd	1.02	*	840	724	4.14	
PCB-152	*	*	n	NotFnd	1.05	*	840	724	4.00	
PCB-145	*	*	n	NotFnd	0.99	*	840	724	4.26	
PCB-136	*	*	n	NotFnd	1.01	*	840	724	4.19	
PCB-148	*	*	n	NotFnd	0.80	*	840	724	5.29	
PCB-154	*	*	n	NotFnd	0.89	*	840	724	4.75	
13C-PCB-155	3.72e+07	1.29	y	34:00	1.01	10400				104
13C-PCB-111	4.13e+07	1.61	y	36:05	1.13	10300				103
13C-PCB-101	3.55e+07	1.60	y	34:27	-	32.9				
PCB-84	*	*	n	NotFnd	0.80	*	1010	866	7.70	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.80	*	1010	866	7.70	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.78	*	1010	866	7.81	
PCB-90	*	*	n	NotFnd	0.87	*	1010	866	7.03	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.87	*	1010	866	7.03	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.07	*	1010	866	5.72	
PCB-99	*	*	n	NotFnd	0.90	*	1010	866	6.82	
PCB-119	*	*	n	NotFnd	1.16	*	1010	866	5.30	
PCB-83	*	*	n	NotFnd	0.93	*	1010	866	6.55	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.93	*	1010	866	6.55	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.05	*	1010	866	5.85	
PCB-97	*	*	n	NotFnd	0.90	*	1010	866	6.82	
PCB-86	*	*	n	NotFnd	0.71	*	1010	866	8.68	
PCB-125	*	*	n	NotFnd	1.06	*	1010	866	5.80	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	1.06	*	1010	866	5.80	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	1.06	*	1010	866	5.80	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.20	*	1010	866	5.10	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.20	*	1010	866	5.10	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.99	*	1010	866	6.19	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.99	*	1010	866	6.19	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.19	*	1010	866	5.15	
PCB-110	*	*	n	NotFnd	1.18	*	1010	866	5.20	
PCB-82	*	*	n	NotFnd	0.69	*	1010	866	8.94	
PCB-124	*	*	n	NotFnd	1.12	*	796	1290	6.08	
PCB-108	*	*	n	NotFnd	1.01	*	796	1290	6.71	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.01	*	796	1290	6.71	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.15	*	796	1290	5.70	
13C-PCB-123	3.40e+07	1.60	y	38:08	1.10	9940				99.4
PCB-118	*	*	n	NotFnd	1.02	*	796	1290	6.61	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.02	*	796	1290	6.61	Co-elute PCB 118
13C-PCB-118	3.78e+07	1.59	y	38:18	1.16	10500				105
PCB-114	*	*	n	NotFnd	1.06	*	796	1290	6.16	
13C-PCB-114	3.65e+07	1.58	y	38:56	1.13	10400				104
PCB-122	*	*	n	NotFnd	1.18	*	796	1290	5.77	
PCB-105	*	*	n	NotFnd	1.13	*	796	1290	6.59	
13C-PCB-105	3.46e+07	1.59	y	39:45	1.13	9840				98.4

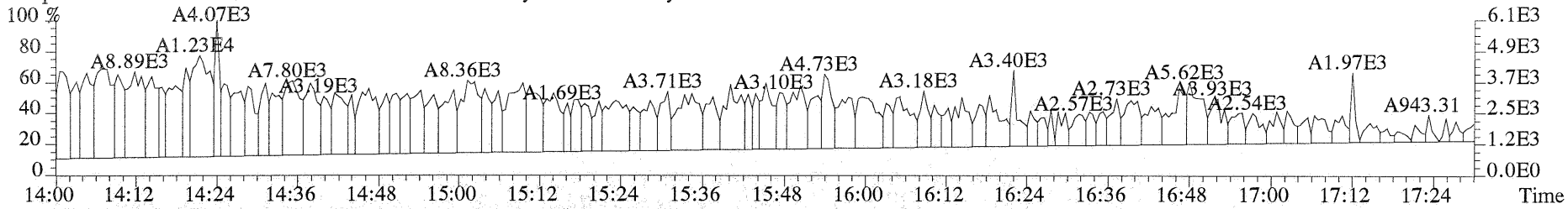
PCB-127	*	*	n	NotFnd	1.04	*	796	1290	6.57	
PCB-126	*	*	n	NotFnd	1.16	*	796	1290	8.69	
13C-PCB-126	2.82e+07	1.56	y	41:54	0.98	9250				92.5
PCB-151	*	*	n	NotFnd	0.88	*	1130	909	8.61	
PCB-135	*	*	n	NotFnd	0.86	*	1130	909	8.87	
PCB-144	*	*	n	NotFnd	0.94	*	1130	909	8.09	
PCB-147	*	*	n	NotFnd	0.97	*	1130	909	7.80	
PCB-139	*	*	n	NotFnd	0.95	*	1130	909	7.98	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	0.95	*	1130	909	7.98	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.93	*	1130	909	8.13	
PCB-143	*	*	n	NotFnd	0.89	*	1130	909	8.50	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.89	*	1130	909	8.50	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.90	*	1130	909	8.44	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.90	*	1130	909	8.44	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.83	*	1130	909	9.21	
PCB-165	*	*	n	NotFnd	1.08	*	1130	909	7.02	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.08	*	1130	909	7.02	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	1.01	*	1130	909	7.52	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	1.01	*	1130	909	7.52	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	1.10	*	1130	909	6.91	
PCB-168	*	*	n	NotFnd	1.15	*	1130	909	6.59	
PCB-141	*	*	n	NotFnd	0.91	*	1130	909	8.31	
PCB-137	*	*	n	NotFnd	0.85	*	1130	909	8.95	
PCB-130	*	*	n	NotFnd	0.83	*	1130	909	9.19	
PCB-138	*	*	n	NotFnd	1.17	*	1130	909	6.47	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.17	*	1130	909	6.47	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.17	*	1130	909	6.47	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.17	*	1130	909	6.47	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.17	*	1130	909	6.47	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.77	*	1130	909	9.91	
PCB-166	*	*	n	NotFnd	1.13	*	1130	808	6.39	
PCB-159	*	*	n	NotFnd	1.21	*	1130	808	5.94	
PCB-128	*	*	n	NotFnd	0.95	*	1130	808	7.63	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	0.95	*	1130	808	7.63	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	1.04	*	1130	808	6.41	
13C-PCB-167	3.29e+07	1.27	y	43:13	1.04	10200				102
PCB-156	*	*	n	NotFnd	1.09	*	1130	808	6.51	
13C-PCB-156	3.03e+07	1.26	y	44:27	1.01	9600				96.0
PCB-157	*	*	n	NotFnd	1.00	*	1130	808	7.22	
13C-PCB-157	3.27e+07	1.28	y	44:42	1.03	10200				102
PCB-169	*	*	n	NotFnd	1.02	*	1130	964	8.62	
13C-PCB-169	2.58e+07	1.26	y	46:37	0.89	9330				93.3

FAL ID: 03753-001-0001-MB Filename: 02JUL16Z Sam:4 Acquired: 2-JUL-16 14:09:44 ICal: DAILY209FAL4-7-2-16
Client ID: Method Blank ConCal: ST070216Z1 EndCal: ST070216Z2
Results: 9967 GC Column: DB1 Amount: 1.000

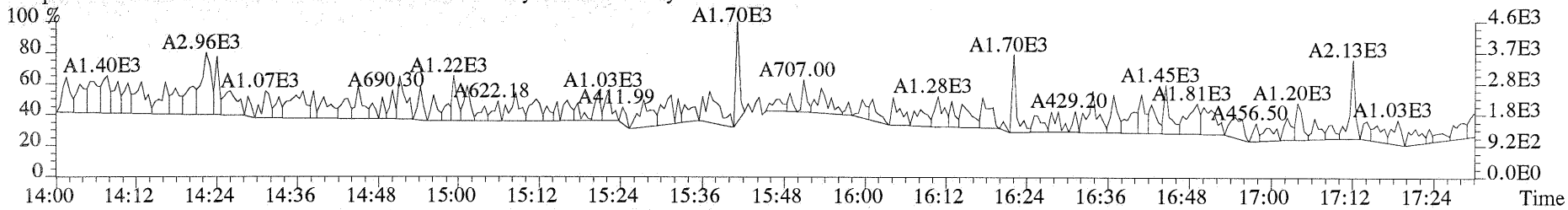
PCB-188	*	*	n	NotFnd	1.16	*	1040	987	5.29	
13C-PCB-188	3.73e+07	1.07	y	39:30	1.12	10700				107
PCB-184	*	*	n	NotFnd	1.27	*	1040	987	5.40	
PCB-179	*	*	n	NotFnd	1.27	*	1040	987	5.41	
PCB-176	*	*	n	NotFnd	1.24	*	1040	987	5.53	
PCB-186	*	*	n	NotFnd	1.19	*	1040	987	5.74	
PCB-178	*	*	n	NotFnd	0.90	*	1040	987	7.60	
PCB-175	*	*	n	NotFnd	0.93	*	1040	987	7.38	
PCB-187	*	*	n	NotFnd	0.98	*	1040	987	7.01	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.98	*	1040	987	7.01	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.99	*	1040	987	6.91	
PCB-185	*	*	n	NotFnd	0.87	*	1040	987	7.87	
PCB-174	*	*	n	NotFnd	0.95	*	1040	987	7.22	
PCB-181	*	*	n	NotFnd	0.81	*	1040	987	8.43	
PCB-177	*	*	n	NotFnd	0.84	*	1040	987	8.12	
PCB-171	*	*	n	NotFnd	0.89	*	1040	987	7.67	
PCB-173	*	*	n	NotFnd	0.79	*	1040	987	8.69	
PCB-172	*	*	n	NotFnd	0.83	*	1040	987	8.22	
PCB-192	*	*	n	NotFnd	1.06	*	1040	987	6.46	
PCB-180	*	*	n	NotFnd	0.98	*	1040	987	7.02	
PCB-193	*	*	n	NotFnd	1.15	*	1040	987	5.96	
PCB-191	*	*	n	NotFnd	1.12	*	1040	987	6.13	
PCB-170	*	*	n	NotFnd	0.77	*	1040	987	8.88	
PCB-190	*	*	n	NotFnd	1.06	*	1040	987	6.47	
PCB-189	*	*	n	NotFnd	1.15	*	1040	987	6.82	
13C-PCB-189	2.61e+07	1.04	y	48:16	0.86	9710				97.1
PCB-202	*	*	n	NotFnd	0.98	*	516	652	4.16	
PCB-201	*	*	n	NotFnd	1.03	*	516	652	3.98	
PCB-204	*	*	n	NotFnd	1.00	*	516	652	4.08	
PCB-197	*	*	n	NotFnd	1.00	*	516	652	4.08	
PCB-200	*	*	n	NotFnd	1.00	*	516	652	4.09	
PCB-198	*	*	n	NotFnd	0.71	*	516	652	5.73	
PCB-199	*	*	n	NotFnd	0.67	*	516	652	6.09	
PCB-203	*	*	n	NotFnd	0.74	*	516	652	5.50	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.74	*	516	652	5.50	Co-elute PCB 203
13C-PCB-202	2.90e+07	0.89	y	44:37	0.89	10500				105
13C-PCB-178	2.68e+07	1.06	y	42:08	0.78	11100				111
13C-PCB-138	3.11e+07	1.27	y	41:21	-	31.5				
PCB-195	*	*	n	NotFnd	0.78	*	1220	1050	8.16	
PCB-194	*	*	n	NotFnd	0.87	*	1220	1050	7.36	
PCB-205	*	*	n	NotFnd	1.07	*	1220	1050	5.97	
13C-PCB-205	2.52e+07	0.91	y	49:56	1.20	10600				106
PCB-208	*	*	n	NotFnd	1.00	*	1480	1250	6.68	
13C-PCB-208	2.94e+07	0.80	y	48:59	1.39	10600				106
PCB-207	*	*	n	NotFnd	1.09	*	1480	1250	7.47	
PCB-206	*	*	n	NotFnd	1.04	*	1480	1250	9.92	
13C-PCB-206	1.94e+07	0.80	y	51:06	0.97	10000				100
PCB-209	*	*	n	NotFnd	1.06	*	1400	1350	7.48	
13C-PCB-209	2.89e+07	1.20	y	52:16	1.42	10200				102
13C-PCB-194	1.99e+07	0.91	y	49:40	-	30.5				

Analyst: _____ Date: 7/5/16

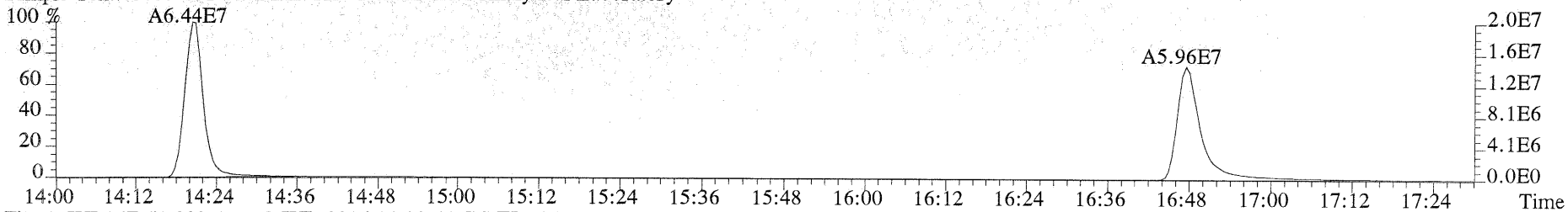
File:02JUL16Z #1-900 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



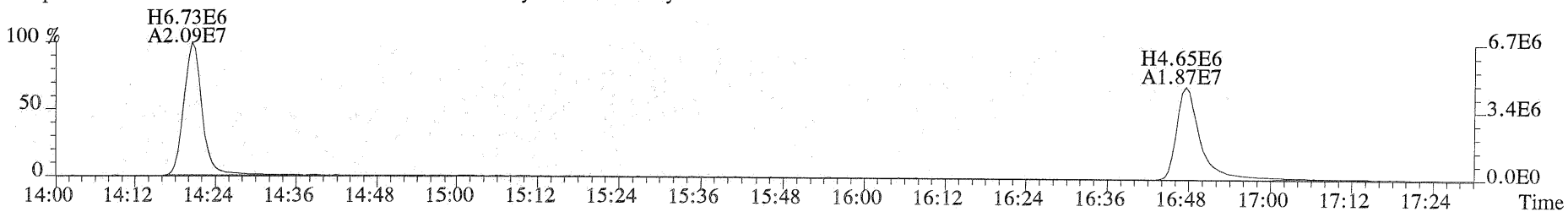
File:02JUL16Z #1-900 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



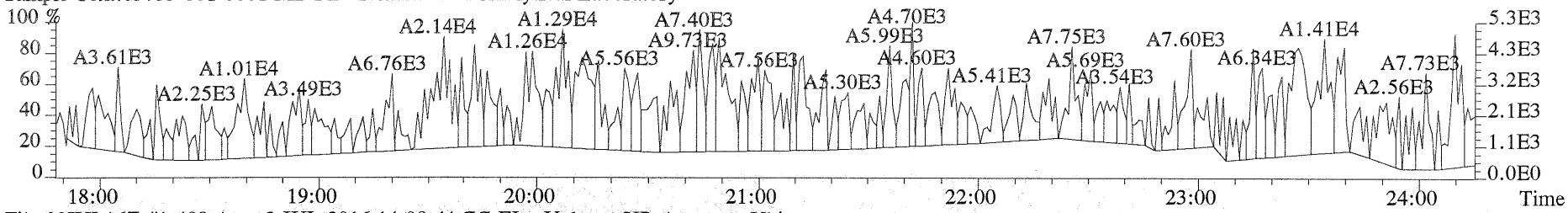
File:02JUL16Z #1-900 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



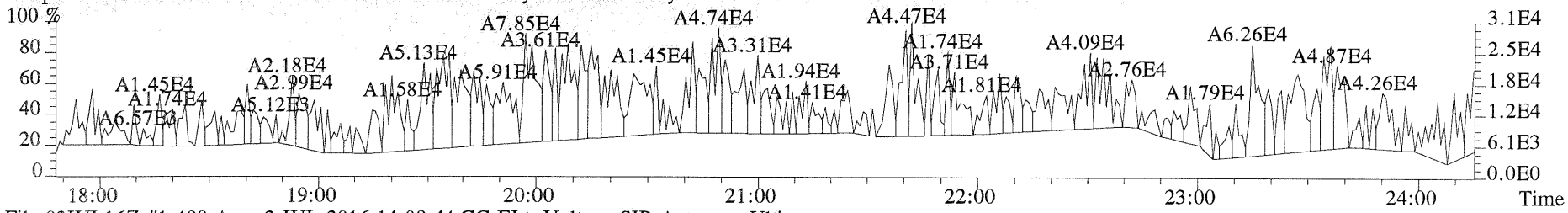
File:02JUL16Z #1-900 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



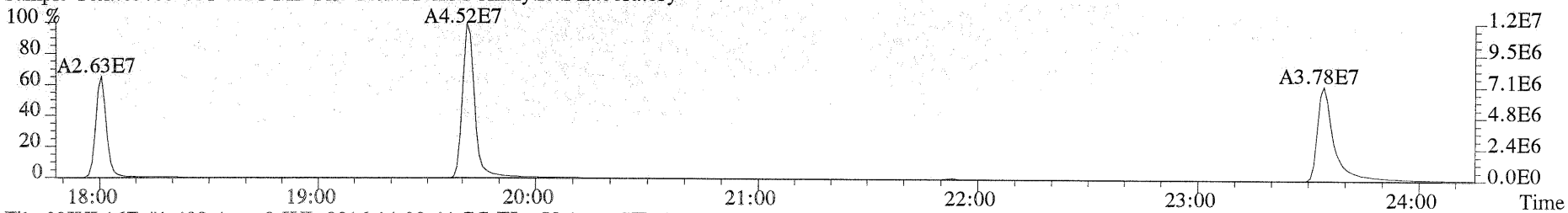
File:02JUL16Z #1-498 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



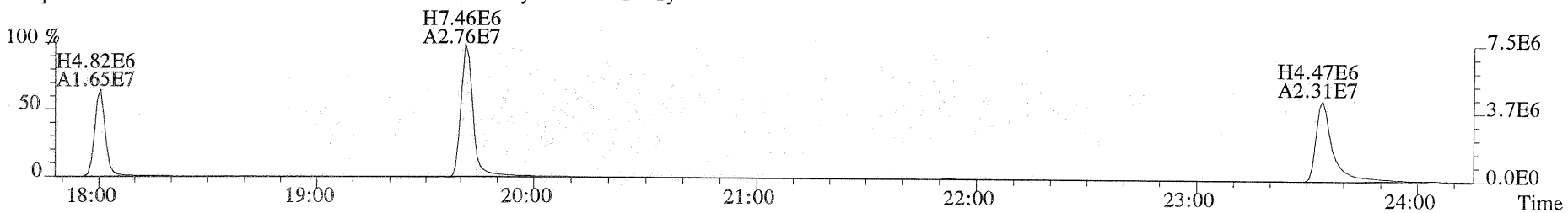
File:02JUL16Z #1-498 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



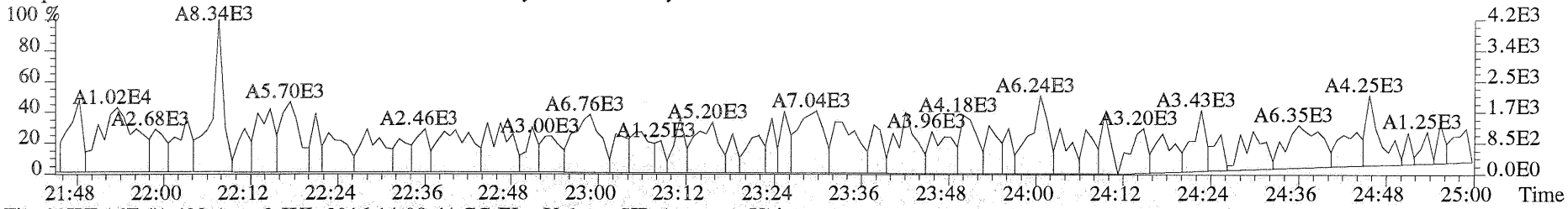
File:02JUL16Z #1-498 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



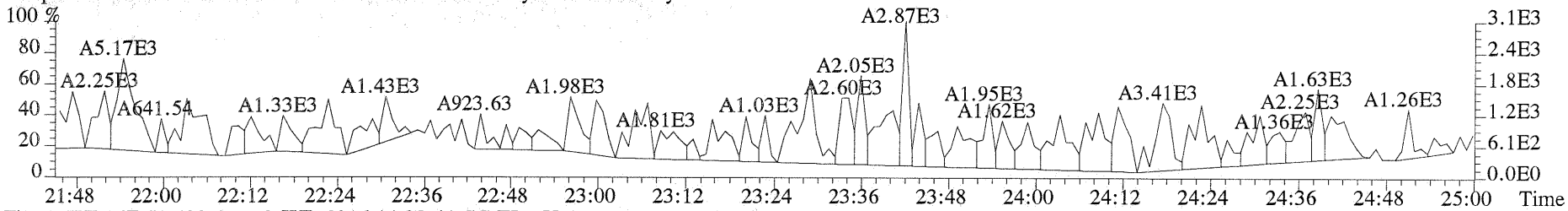
File:02JUL16Z #1-498 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



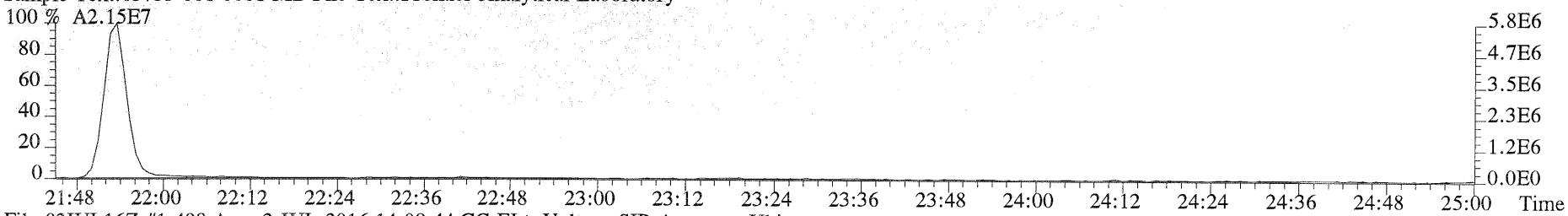
File:02JUL16Z #1-498 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-498 Acq: 2-JUL-2016 14:09:44 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:03753-001-0001-MB File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-498 Acq: 2-JUL-2016 14:09:44 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:03753-001-0001-MB File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-498 Acq: 2-JUL-2016 14:09:44 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
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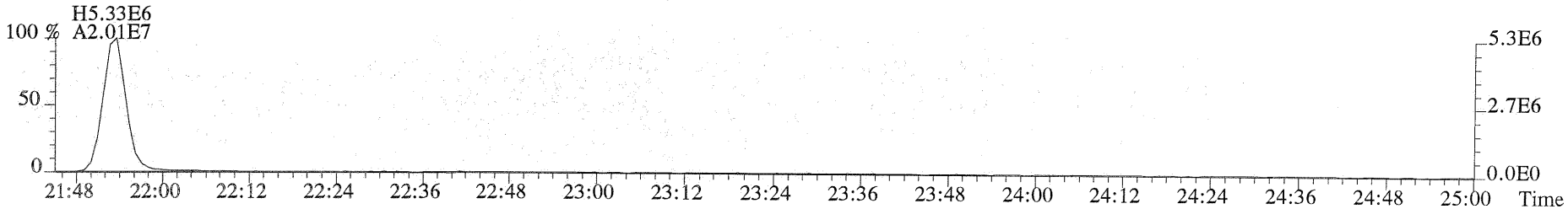
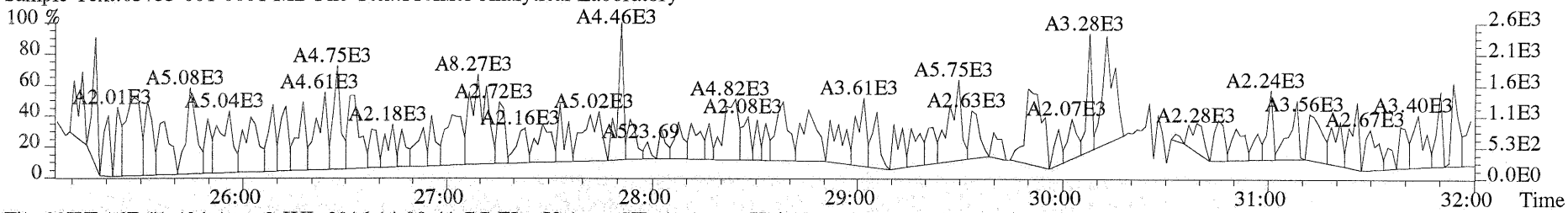
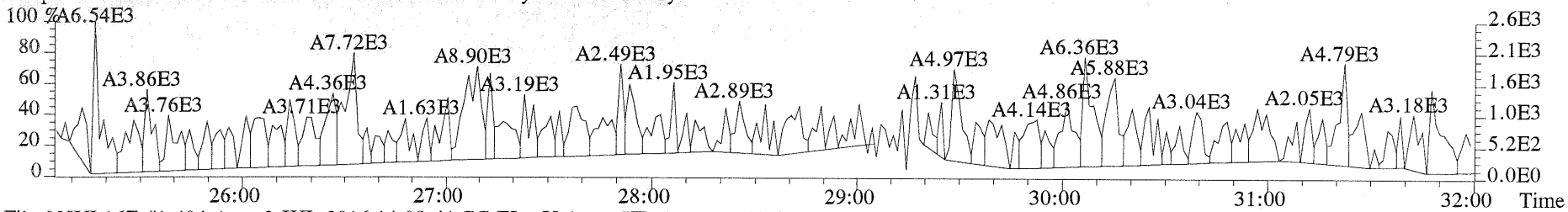


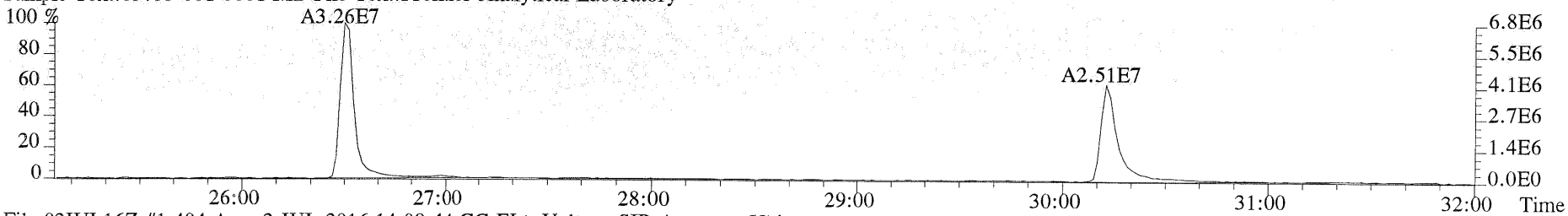
File:02JUL16Z #1-404 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



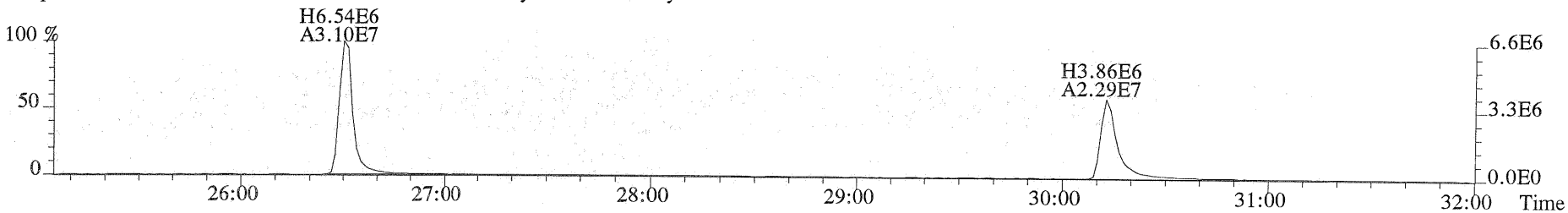
File:02JUL16Z #1-404 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



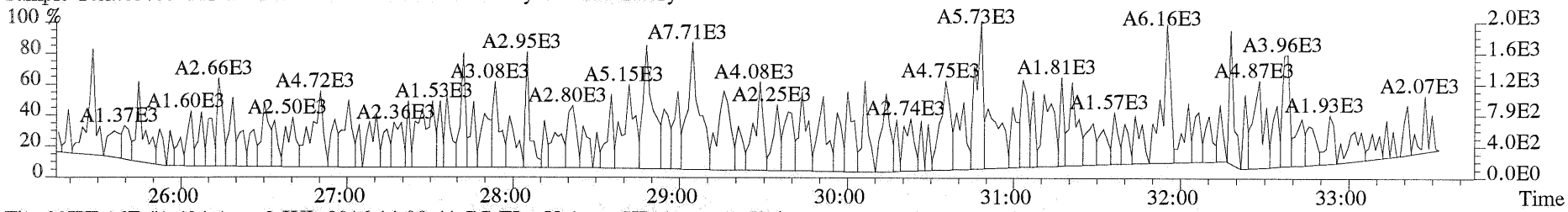
File:02JUL16Z #1-404 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



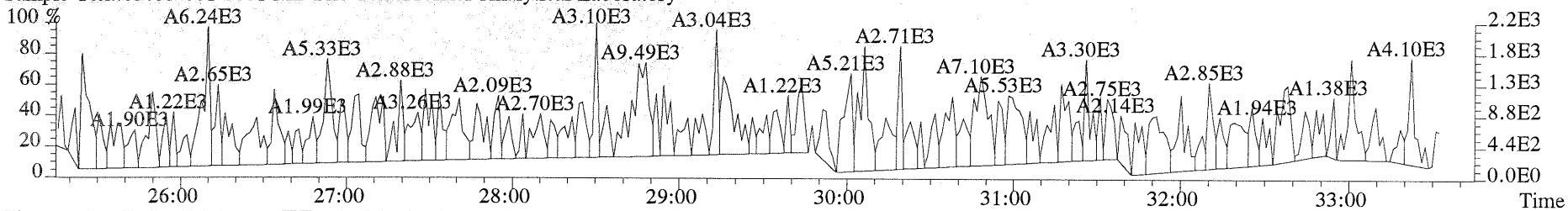
File:02JUL16Z #1-404 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



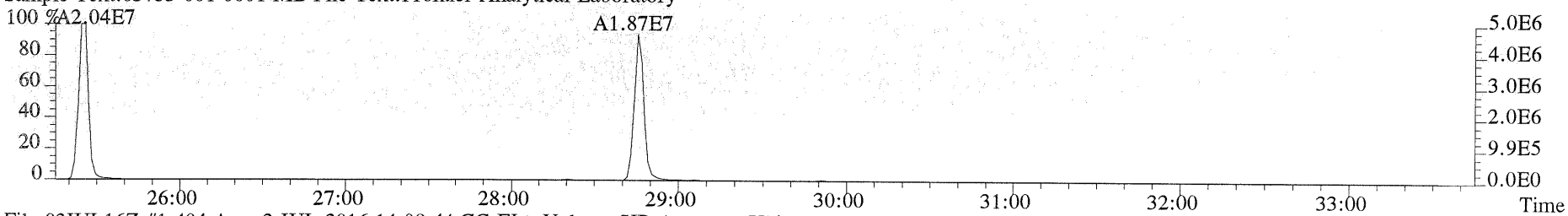
File:02JUL16Z #1-404 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



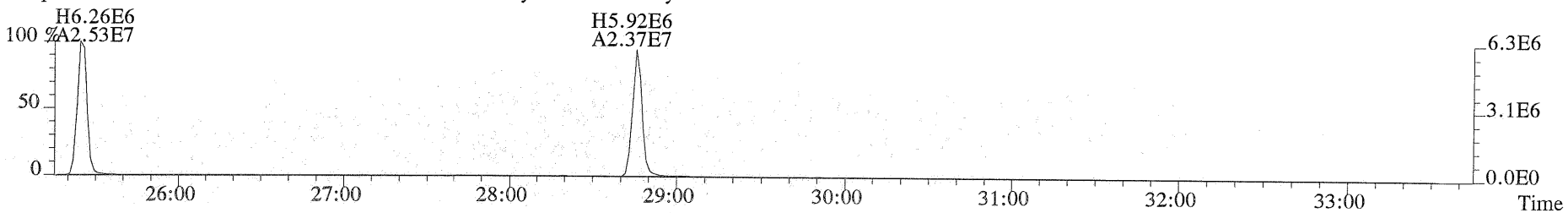
File:02JUL16Z #1-404 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



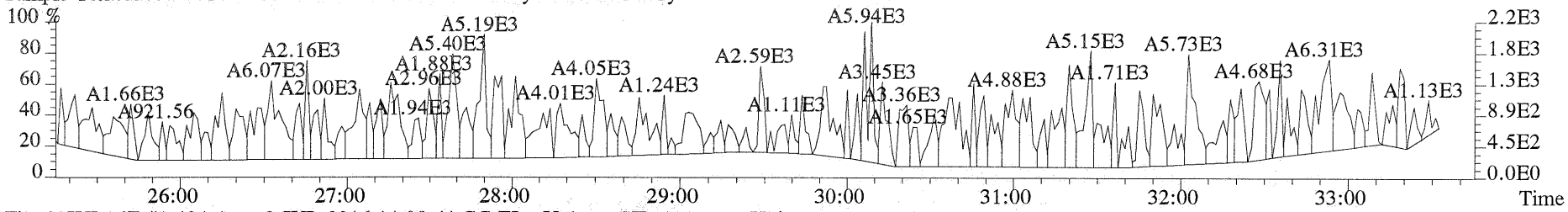
File:02JUL16Z #1-404 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



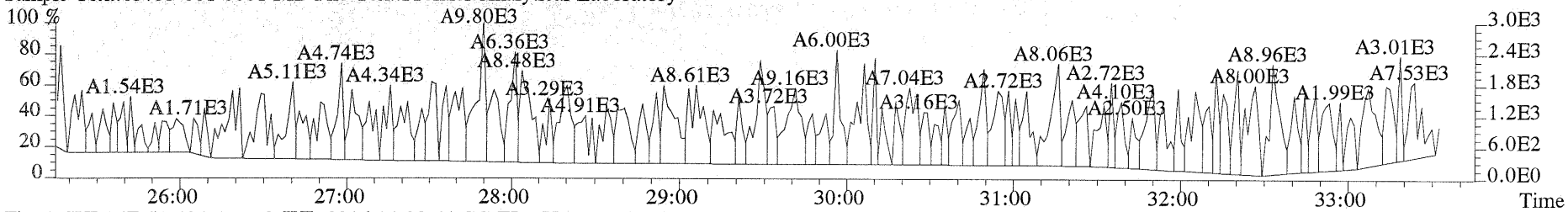
File:02JUL16Z #1-404 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



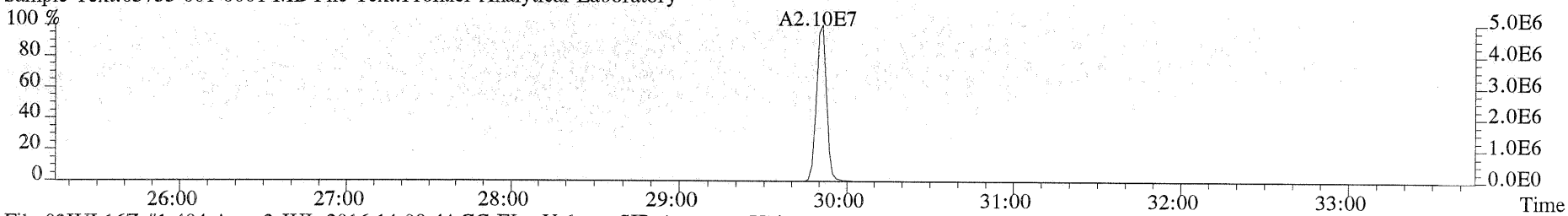
File:02JUL16Z #1-404 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



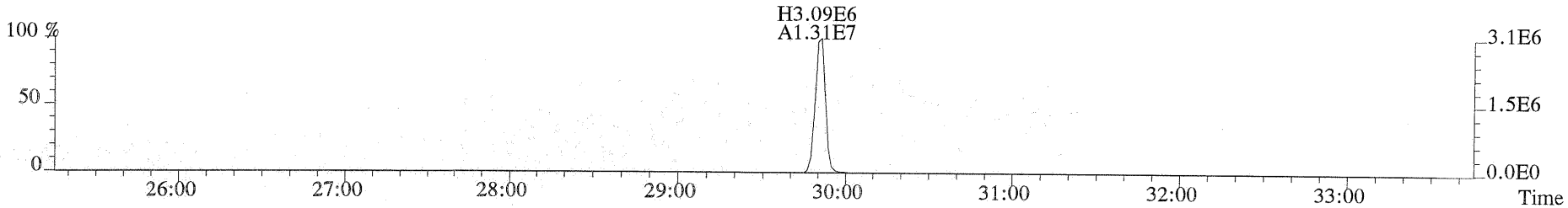
File:02JUL16Z #1-404 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



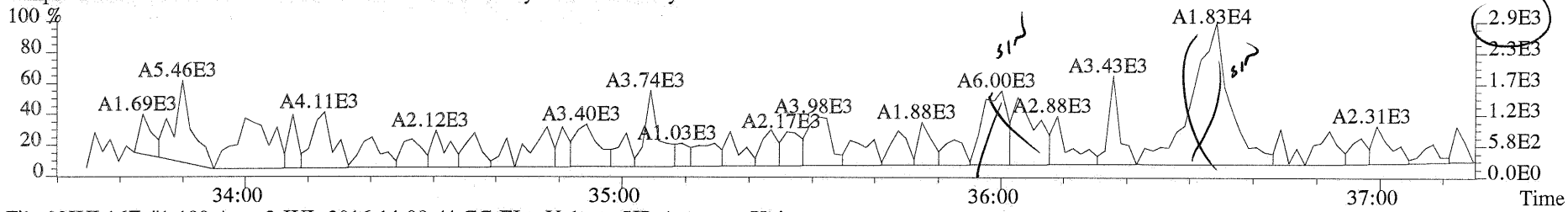
File:02JUL16Z #1-404 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



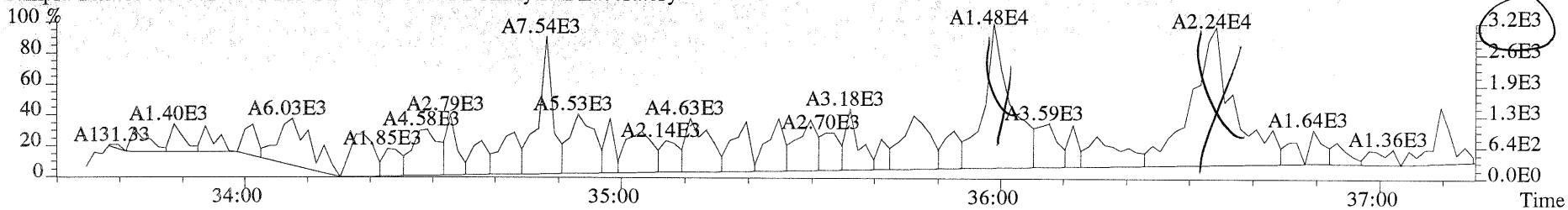
File:02JUL16Z #1-404 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



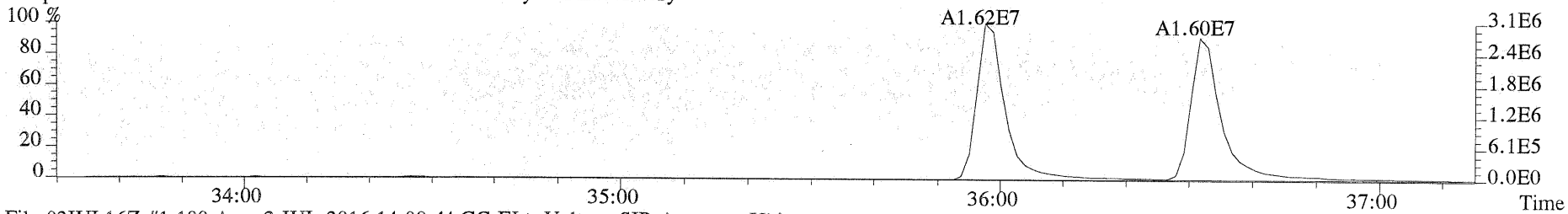
File:02JUL16Z #1-180 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



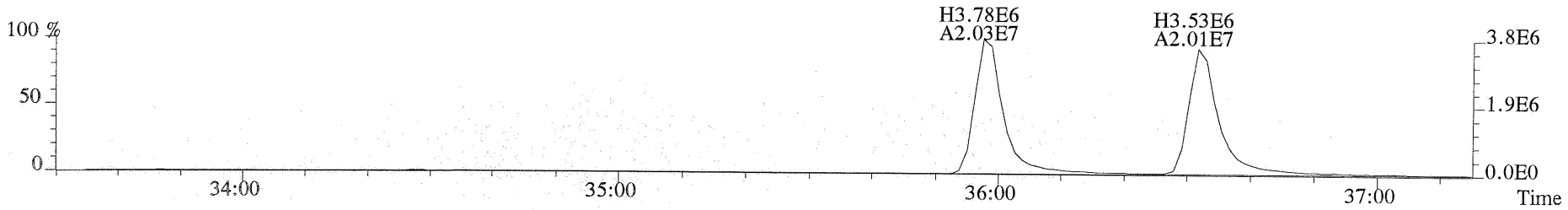
File:02JUL16Z #1-180 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



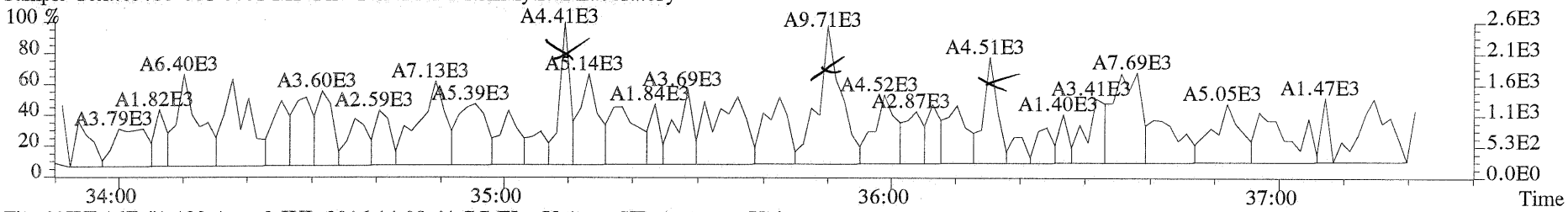
File:02JUL16Z #1-180 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



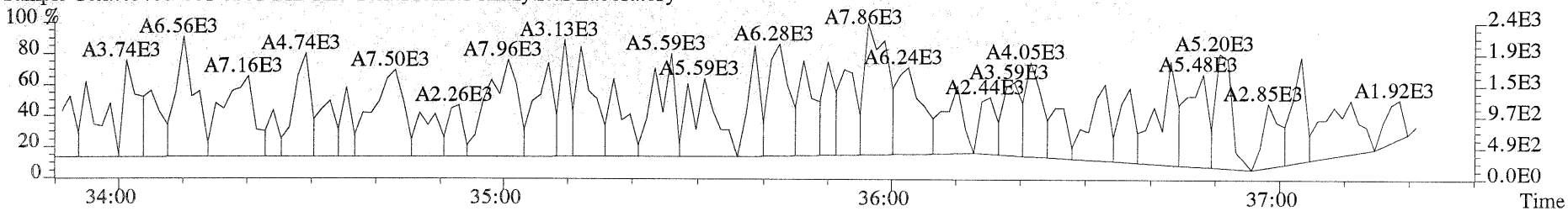
File:02JUL16Z #1-180 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



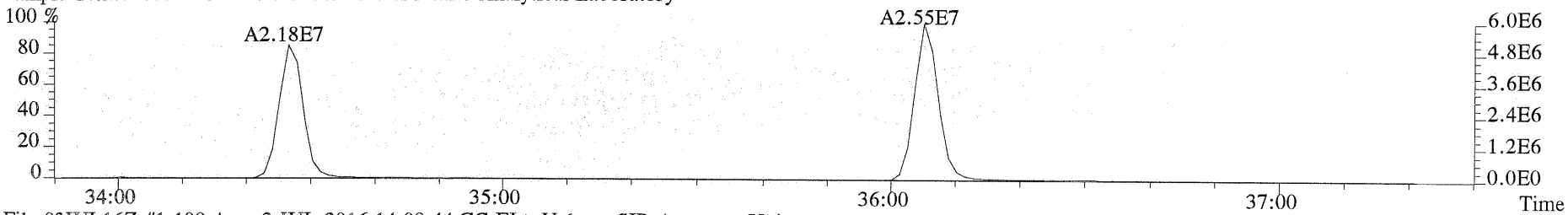
File:02JUL16Z #1-180 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



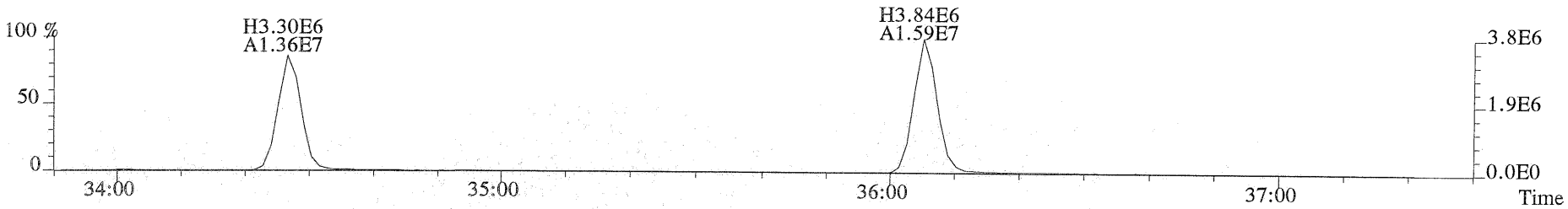
File:02JUL16Z #1-180 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



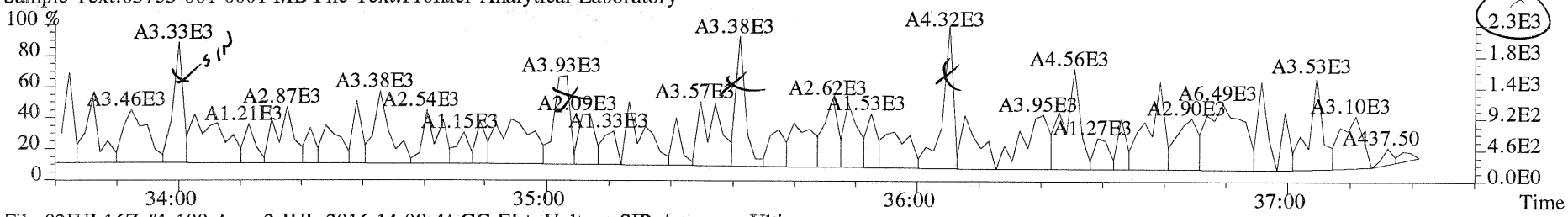
File:02JUL16Z #1-180 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



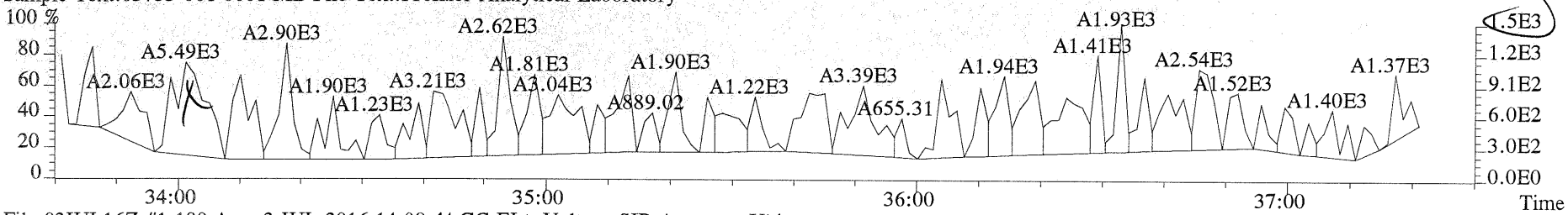
File:02JUL16Z #1-180 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



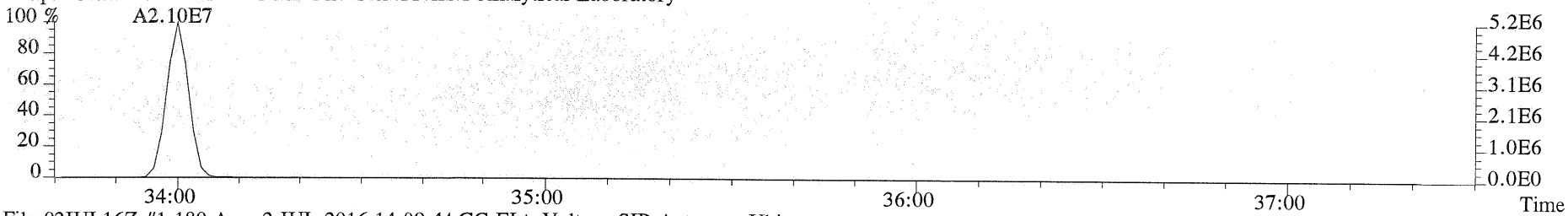
File:02JUL16Z #1-180 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



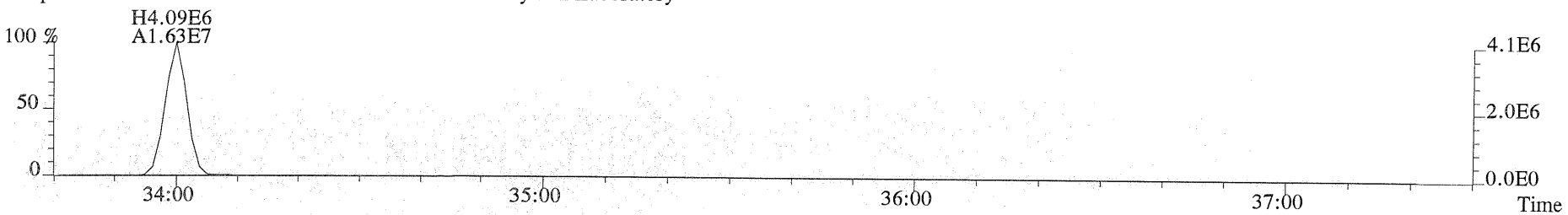
File:02JUL16Z #1-180 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



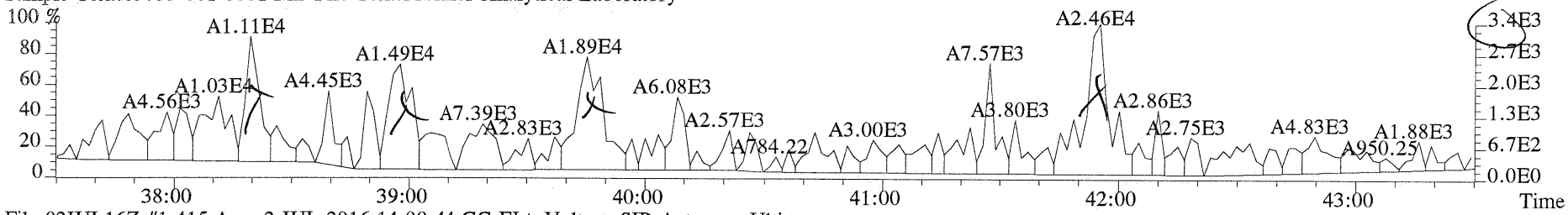
File:02JUL16Z #1-180 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



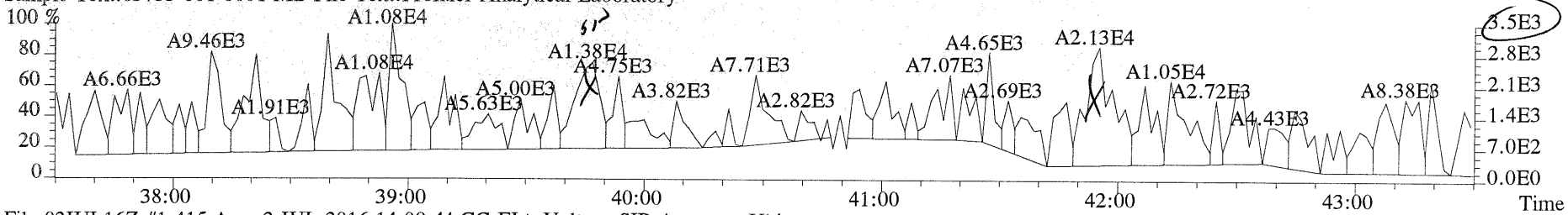
File:02JUL16Z #1-180 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



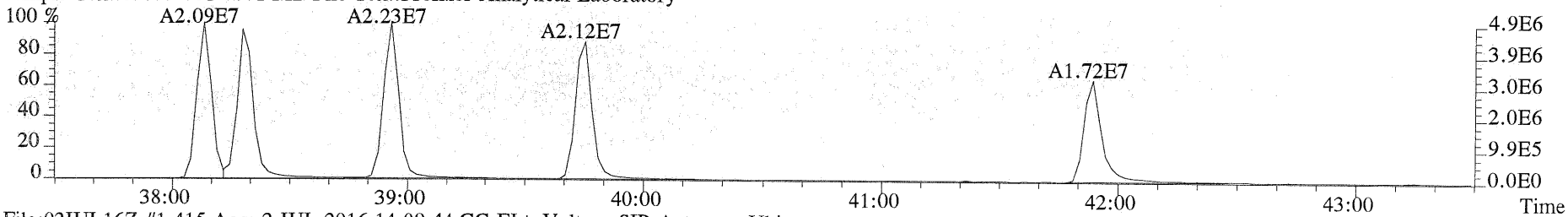
File:02JUL16Z #1-415 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



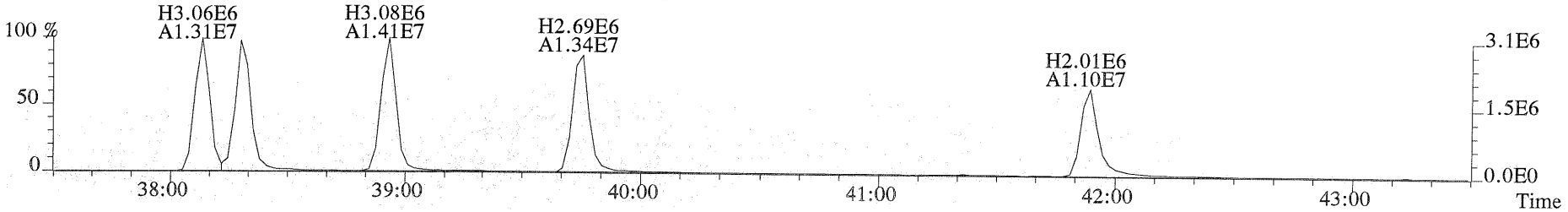
File:02JUL16Z #1-415 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



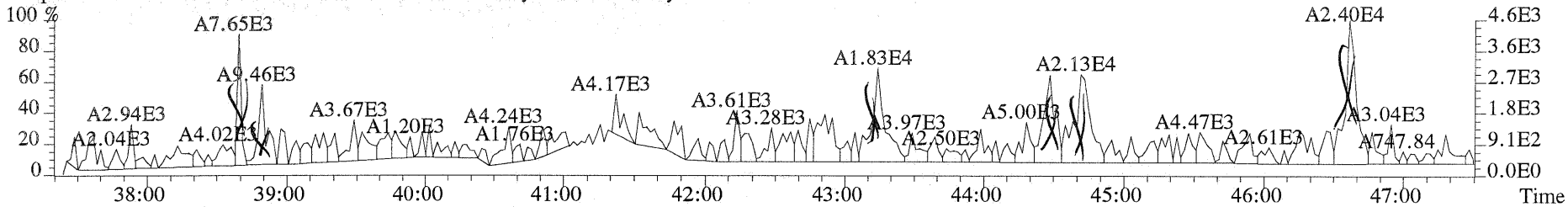
File:02JUL16Z #1-415 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 14:09:44 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:03753-001-0001-MB File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 14:09:44 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:03753-001-0001-MB File Text:Frontier Analytical Laboratory



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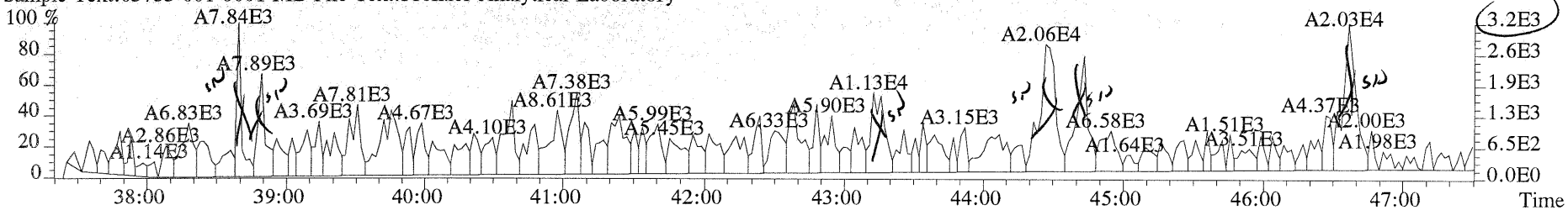
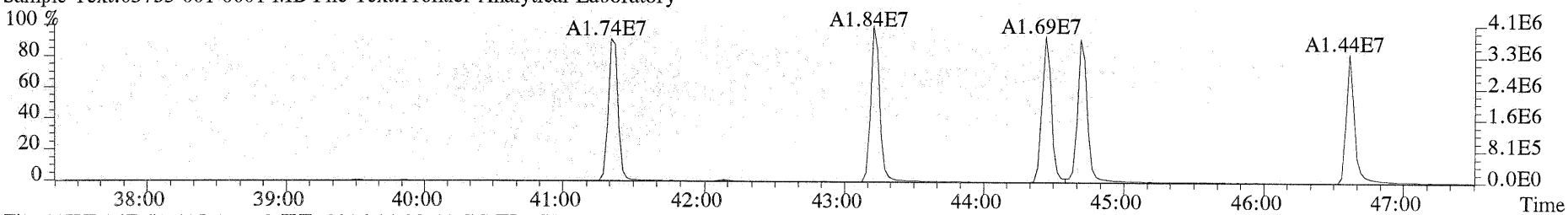
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 14:09:44 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:03753-001-0001-MB File Text:Frontier Analytical Laboratory



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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
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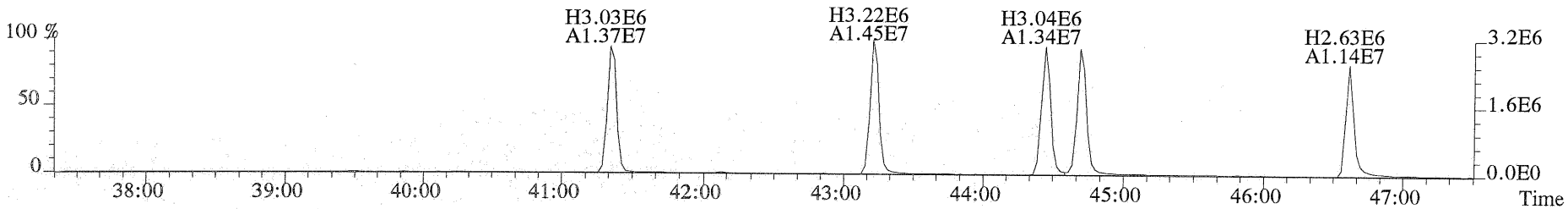
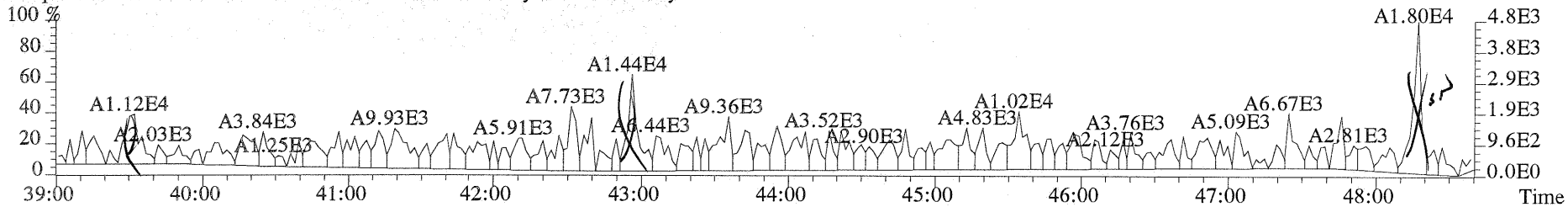
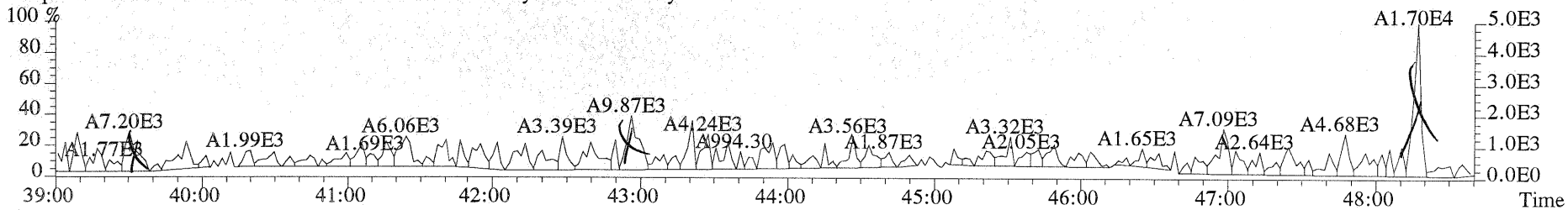


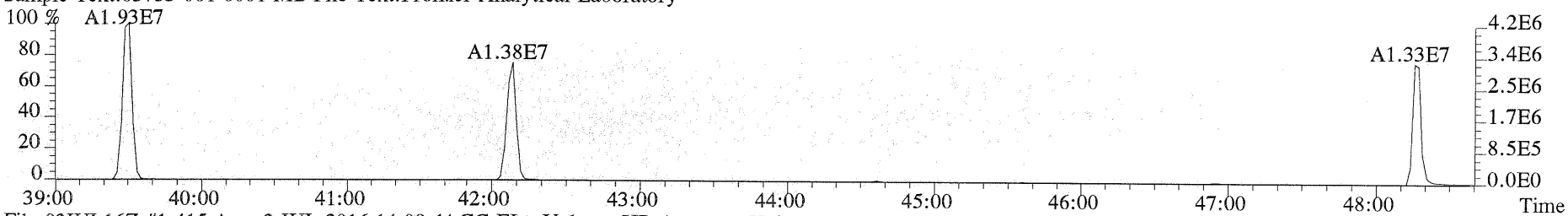
File:02JUL16Z #1-415 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



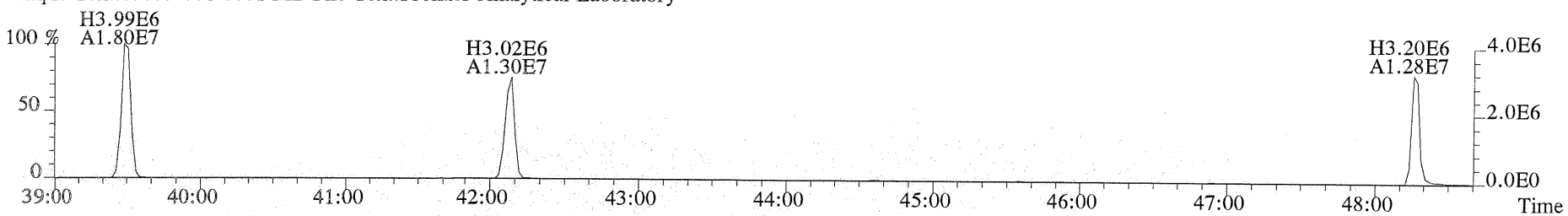
File:02JUL16Z #1-415 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



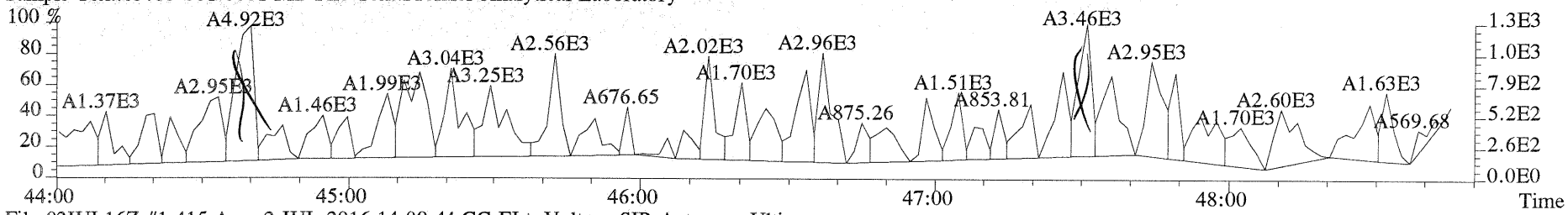
File:02JUL16Z #1-415 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



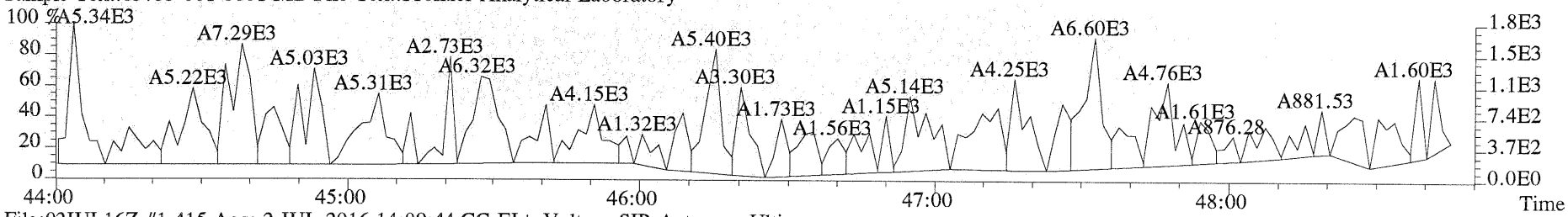
File:02JUL16Z #1-415 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



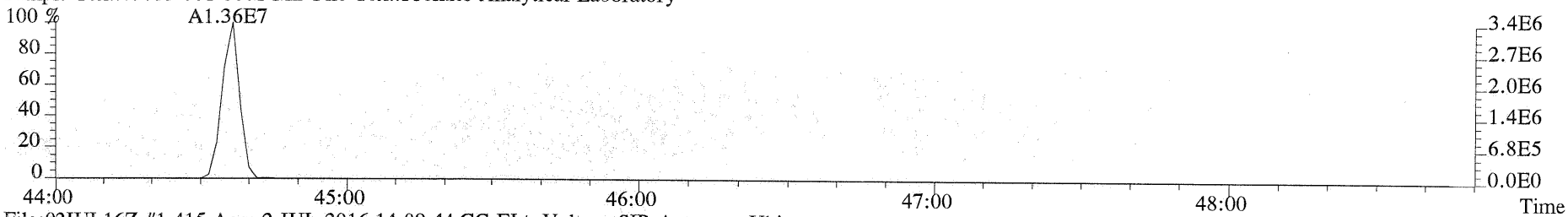
File:02JUL16Z #1-415 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



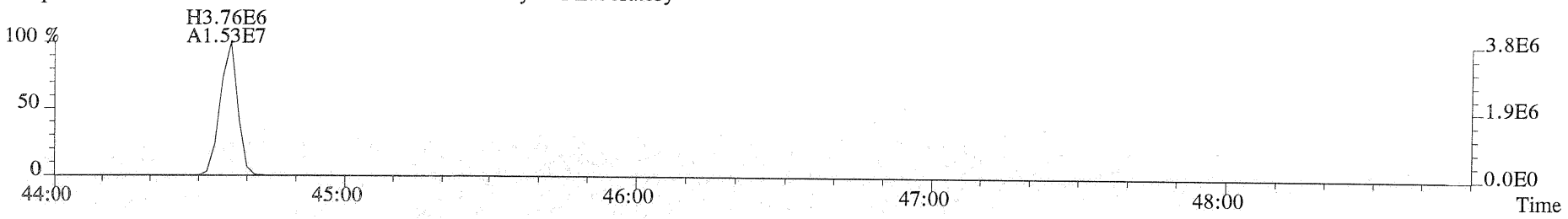
File:02JUL16Z #1-415 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



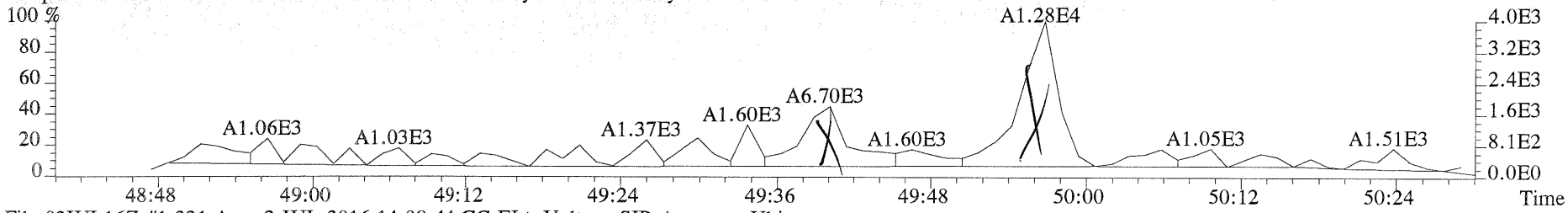
File:02JUL16Z #1-415 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



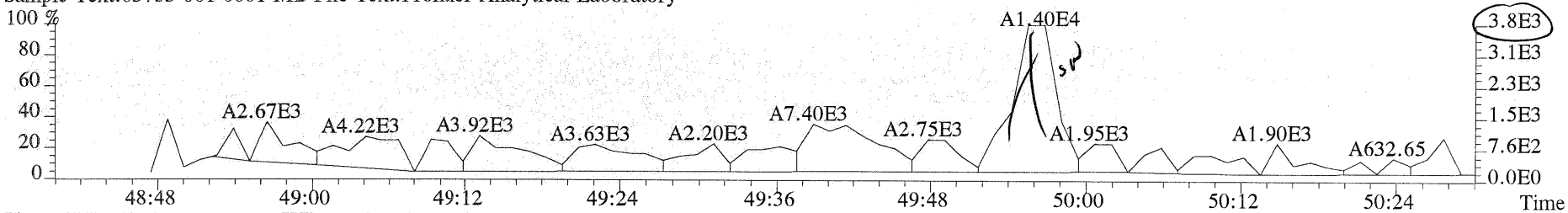
File:02JUL16Z #1-415 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



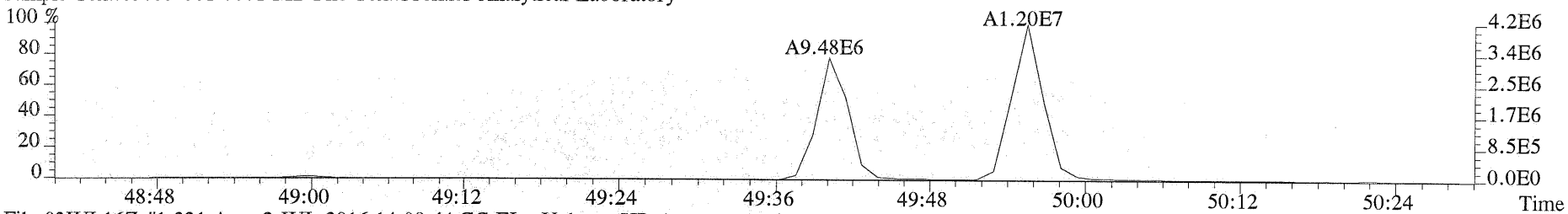
File:02JUL16Z #1-221 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



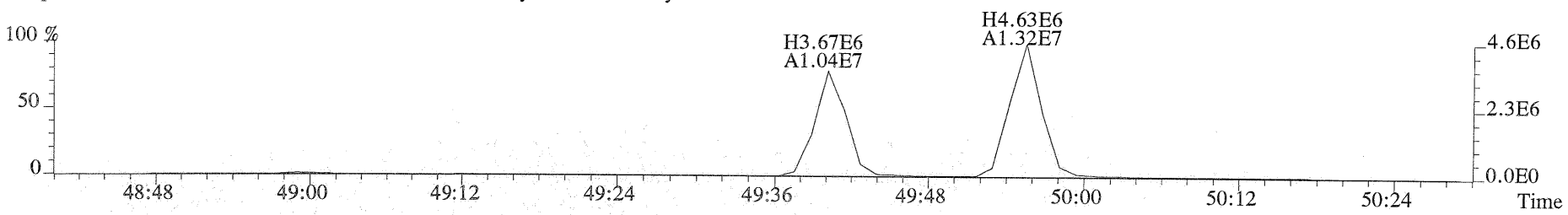
File:02JUL16Z #1-221 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



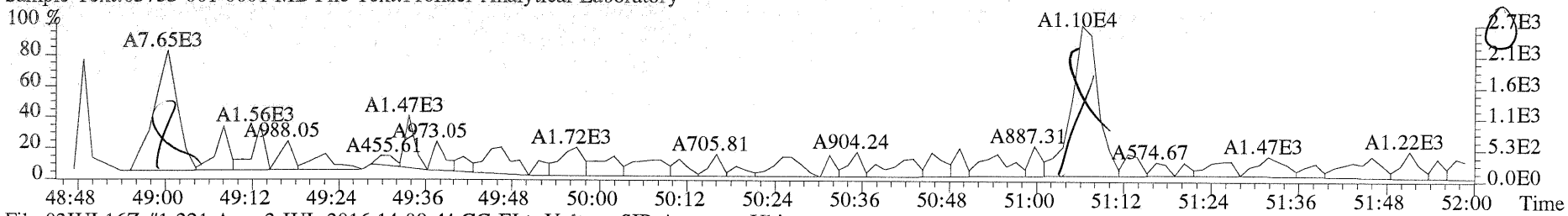
File:02JUL16Z #1-221 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 14:09:44 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:03753-001-0001-MB File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 14:09:44 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:03753-001-0001-MB File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 14:09:44 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
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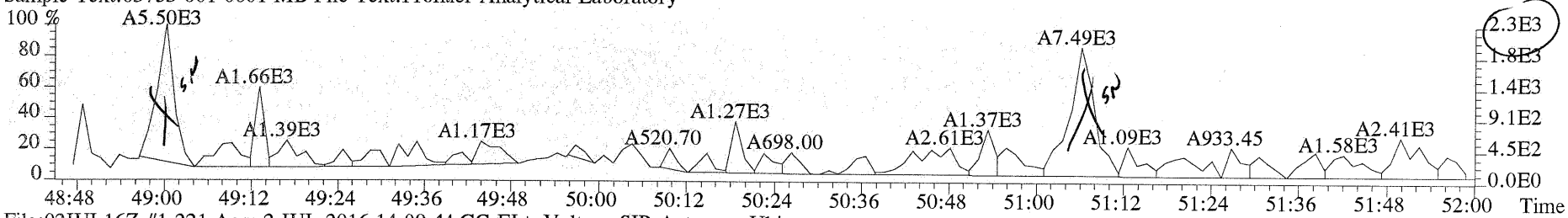
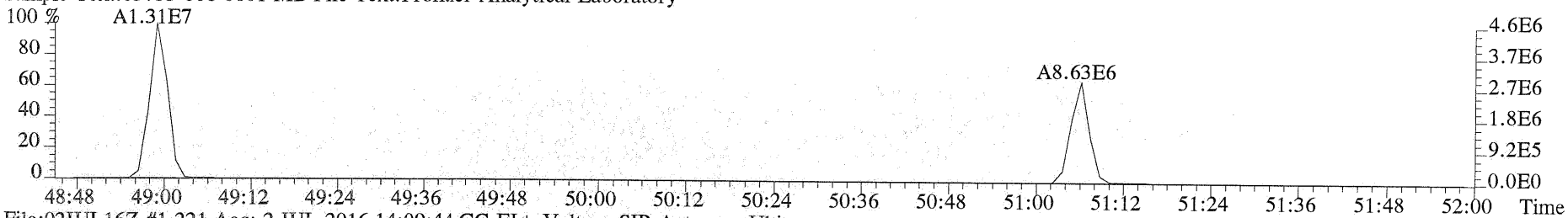
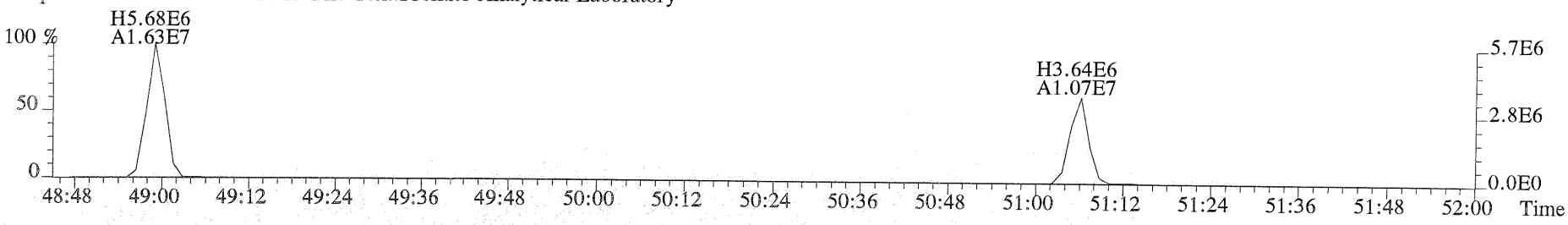


File:02JUL16Z #1-221 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 14:09:44 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:03753-001-0001-MB File Text:Frontier Analytical Laboratory



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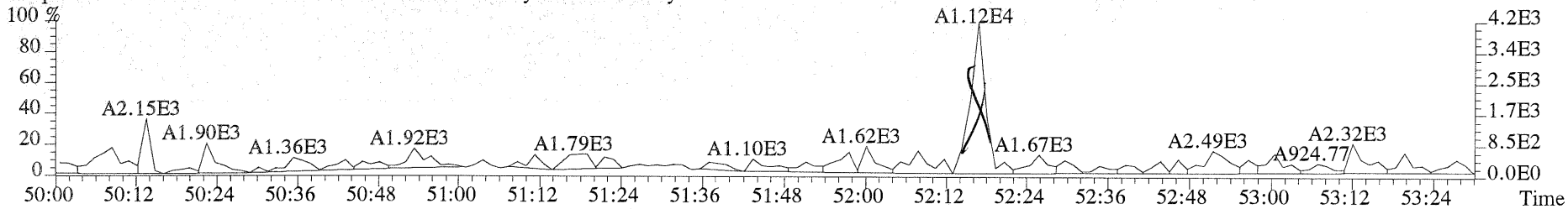
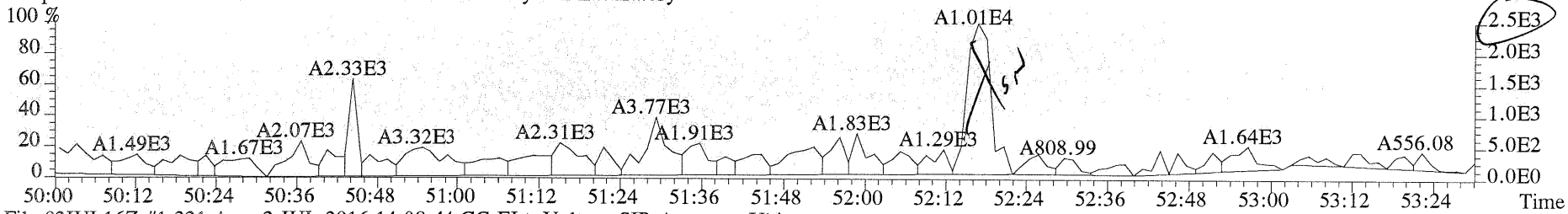
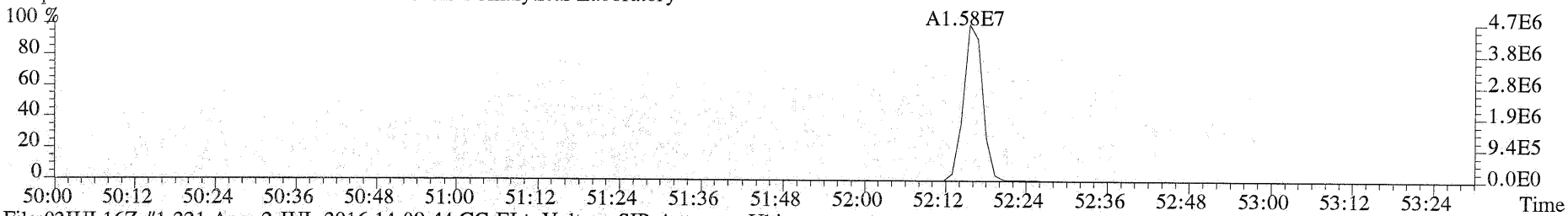
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



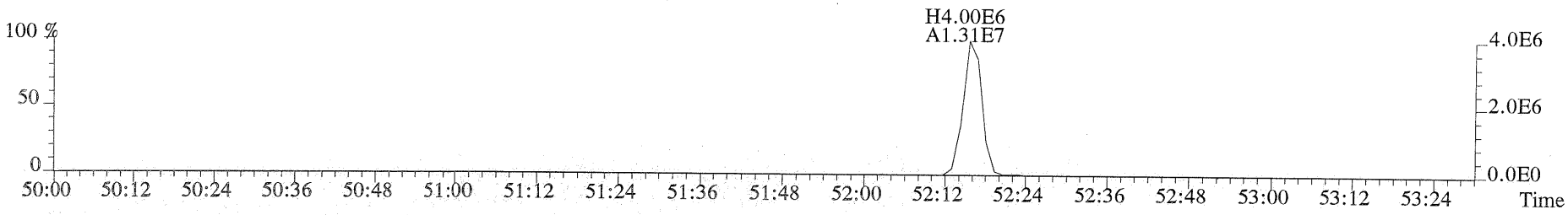
File:02JUL16Z #1-221 Acq: 2-JUL-2016 14:09:44 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-MB File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 14:09:44 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:03753-001-0001-MB File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 14:09:44 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:03753-001-0001-MB File Text:Frontier Analytical Laboratory



03753.001.0001.OPR

USEPA - ITD

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

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 02JUL16Z Sam:3

Ext. Date: 7/1/16 Shift: Day Analysis Date: 2-JUL-16 13:09:45

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	53.2	30.0 - 67.5
PCB-3	50	51.1	30.0 - 67.5
PCB-4	50	48.9	30.0 - 67.5
PCB-15	50	50.7	30.0 - 67.5
PCB-19	50	53.5	30.0 - 67.5
PCB-37	50	49.8	30.0 - 67.5
PCB-54	50	53.3	30.0 - 67.5
PCB-77	50	53.2	30.0 - 67.5
PCB-81	50	50.1	30.0 - 67.5
PCB-104	50	52.2	30.0 - 67.5
PCB-105	50	46.4	30.0 - 67.5
PCB-114	50	51.5	30.0 - 67.5
PCB-118	50	54.0	30.0 - 67.5
PCB-123	50	48.7	30.0 - 67.5
PCB-126	50	49.2	30.0 - 67.5
PCB-155	50	52.7	30.0 - 67.5
PCB-156	50	51.4	30.0 - 67.5
PCB-157	50	53.7	30.0 - 67.5
PCB-167	50	52.0	30.0 - 67.5
PCB-169	50	53.1	30.0 - 67.5
PCB-188	50	51.4	30.0 - 67.5
PCB-189	50	51.8	30.0 - 67.5
PCB-202	50	55.0	30.0 - 67.5
PCB-205	50	52.2	30.0 - 67.5
PCB-206	50	52.1	30.0 - 67.5
PCB-208	50	54.9	30.0 - 67.5
PCB-209	50	53.3	30.0 - 67.5

Analyst: [signature] Date: 7/2/16

USEPA - ITD

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

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 02JUL16Z Sam:3

Ext. Date: 7/1/16 Shift: Day Analysis Date: 2-JUL-16 13:09:45

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	93.3	15.0 - 145
13C-PCB-3	100	93.5	15.0 - 145
13C-PCB-4	100	95.6	15.0 - 145
13C-PCB-15	100	90.4	15.0 - 145
13C-PCB-19	100	94.6	15.0 - 145
13C-PCB-37	100	95.0	15.0 - 145
13C-PCB-54	100	95.8	15.0 - 145
13C-PCB-77	100	94.2	40.0 - 145
13C-PCB-81	100	93.2	40.0 - 145
13C-PCB-104	100	97.6	40.0 - 145
13C-PCB-105	100	97.1	40.0 - 145
13C-PCB-114	100	100	40.0 - 145
13C-PCB-118	100	103	40.0 - 145
13C-PCB-123	100	97.7	40.0 - 145
13C-PCB-126	100	98.1	40.0 - 145
13C-PCB-155	100	101	40.0 - 145
13C-PCB-156	100	96.1	40.0 - 145
13C-PCB-157	100	101	40.0 - 145
13C-PCB-167	100	103	40.0 - 145
13C-PCB-169	100	98.0	40.0 - 145
13C-PCB-188	100	104	40.0 - 145
13C-PCB-189	100	100	40.0 - 145
13C-PCB-202	100	103	40.0 - 145
13C-PCB-205	100	101	40.0 - 145
13C-PCB-206	100	101	40.0 - 145
13C-PCB-208	100	97.6	40.0 - 145
13C-PCB-209	100	100	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	98.9	15.0 - 145
13C-PCB-111	100	97.1	40.0 - 145
13C-PCB-178	100	101	40.0 - 145

Analyst: J Date: 7/6/16

FAL ID: 03753-001-0001-OPR Filename: 02JUL16Z Sam:3 Acquired: 2-JUL-16 13:09:45 ICal: DAILY209FAL4-7-2-16
Client ID: OPR ConCal: ST070216Z1 EndCal: ST070216Z2
Results: 9967 GC Column: DB1 Amount: 1.000

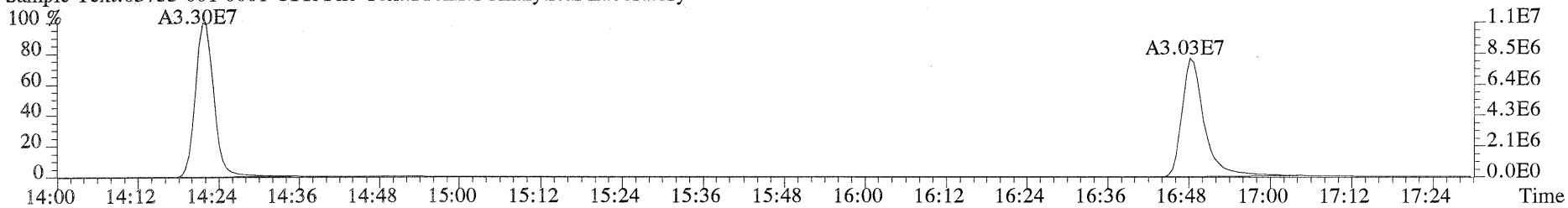
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.38e+07	3.08 y	14:22	0.95	53.2		2.50	-	-	*	
13C-PCB-1	8.65e+07	3.08 y	14:21	1.24	93.3		2.50				93.3
PCB-3	4.04e+07	3.00 y	16:48	0.99	51.1		2.50	-	-	*	
13C-PCB-3	7.95e+07	3.16 y	16:47	1.14	93.5		2.50				93.5
PCB-4	2.46e+07	1.52 y	18:02	1.18	48.9		2.50	-	-	*	
13C-PCB-4	4.25e+07	1.60 y	18:01	0.59	95.6		2.50				95.6
PCB-15	3.60e+07	1.55 y	23:34	1.15	50.7		2.50	-	-	*	
13C-PCB-15	6.19e+07	1.64 y	23:33	0.91	90.4		2.50				90.4
PCB-19	2.35e+07	1.04 y	21:55	1.06	53.5		2.50	-	-	*	
13C-PCB-19	4.15e+07	1.07 y	21:53	0.59	94.6		2.50				94.6
13C-PCB-9	7.49e+07	1.62 y	19:41	-	36.3		2.50				
PCB-37	2.90e+07	1.03 y	30:13	1.17	49.8		2.50	-	-	*	
13C-PCB-37	4.97e+07	1.09 y	30:13	1.21	95.0		2.50				95.0
PCB-54	2.59e+07	0.80 y	25:26	1.09	53.3		2.50	-	-	*	
13C-PCB-54	4.45e+07	0.81 y	25:25	1.07	95.8		2.50				95.8
PCB-104	2.18e+07	1.60 y	29:53	1.23	52.2		2.50	-	-	*	
13C-PCB-104	3.41e+07	1.60 y	29:50	0.81	97.6		2.50				97.6
13C-PCB-28	6.07e+07	1.06 y	26:30	1.42	98.9		2.50				98.9
13C-PCB-52	4.32e+07	0.78 y	28:46	-	34.7		2.50				
PCB-81	2.44e+07	0.79 y	35:59	1.27	50.1		2.50	-	-	*	
13C-PCB-81	3.84e+07	0.80 y	35:58	1.12	93.2		2.50				93.2
PCB-77	2.33e+07	0.79 y	36:33	1.14	53.2		2.50	-	-	*	
13C-PCB-77	3.82e+07	0.79 y	36:32	1.10	94.2		2.50				94.2
PCB-155	2.24e+07	1.29 y	34:01	1.13	52.7		2.50	-	-	*	
13C-PCB-155	3.75e+07	1.27 y	34:00	1.01	101		2.50				101
13C-PCB-111	4.01e+07	1.58 y	36:05	1.13	97.1		2.50				97.1
13C-PCB-101	3.67e+07	1.59 y	34:27	-	34.0		2.50				
PCB-123	1.93e+07	1.52 y	38:10	1.15	48.7		2.50	-	-	*	
13C-PCB-123	3.46e+07	1.58 y	38:08	1.10	97.7		2.50				97.7
PCB-118	2.12e+07	1.51 y	38:20	1.02	54.0		2.50	-	-	*	
13C-PCB-118	3.85e+07	1.59 y	38:18	1.16	103		2.50				103
PCB-114	1.99e+07	1.48 y	38:58	1.06	51.5		2.50	-	-	*	
13C-PCB-114	3.65e+07	1.59 y	38:56	1.13	100		2.50				100
PCB-105	1.85e+07	1.48 y	39:45	1.13	46.4		2.50	-	-	*	
13C-PCB-105	3.53e+07	1.62 y	39:45	1.13	97.1		2.50				97.1
PCB-126	1.76e+07	1.55 y	41:54	1.16	49.2		2.50	-	-	*	
13C-PCB-126	3.09e+07	1.61 y	41:52	0.98	98.1		2.50				98.1
PCB-167	1.86e+07	1.25 y	43:14	1.04	52.0		2.50	-	-	*	
13C-PCB-167	3.45e+07	1.27 y	43:13	1.04	103		2.50				103
PCB-156	1.76e+07	1.25 y	44:28	1.09	51.4		2.50	-	-	*	
13C-PCB-156	3.13e+07	1.25 y	44:27	1.01	96.1		2.50				96.1
PCB-157	1.80e+07	1.25 y	44:43	1.00	53.7		2.50	-	-	*	
13C-PCB-157	3.36e+07	1.28 y	44:42	1.03	101		2.50				101
PCB-169	1.51e+07	1.26 y	46:37	1.02	53.1		2.50	-	-	*	
13C-PCB-169	2.81e+07	1.25 y	46:37	0.89	98.0		2.50				98.0
PCB-188	2.23e+07	1.04 y	39:31	1.16	51.4		2.50	-	-	*	
13C-PCB-188	3.74e+07	1.07 y	39:29	1.12	104		2.50				104
PCB-189	1.66e+07	1.05 y	48:17	1.15	51.8		2.50	-	-	*	
13C-PCB-189	2.78e+07	1.08 y	48:16	0.86	100		2.50				100
PCB-202	1.58e+07	0.90 y	44:38	0.98	55.0		2.50	-	-	*	
13C-PCB-202	2.93e+07	0.90 y	44:37	0.89	103		2.50				103
13C-PCB-178	2.53e+07	1.05 y	42:09	0.78	101		2.50				101
13C-PCB-138	3.22e+07	1.27 y	41:21	-	32.6		2.50				

FAL ID: 03753-001-0001-OPR Filename: 02JUL16Z Sam:3 Acquired: 2-JUL-16 13:09:45 ICal: DAILY209FAL4-7-2-16
Client ID: OPR ConCal: ST070216Z1 EndCal: ST070216Z2
Results: 9967 GC Column: DB1 Amount: 1.000

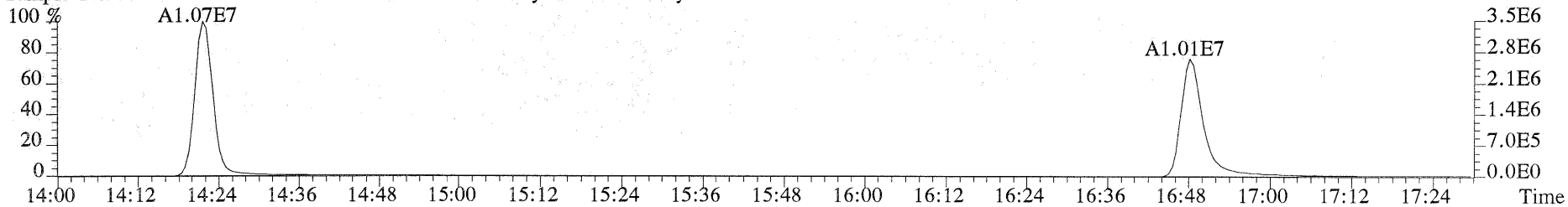
PCB-205	1.41e+07	0.90 y	49:57	1.07	52.2	2.50	-	-	*	
13C-PCB-205	2.53e+07	0.89 y	49:56	1.20	101	2.50				101
PCB-208	1.54e+07	1.39 y	49:00	1.00	54.9	2.50	-	-	*	
13C-PCB-208	2.82e+07	0.80 y	48:59	1.39	97.6	2.50				97.6
PCB-206	1.10e+07	1.35 y	51:08	1.04	52.1	2.50	-	-	*	
13C-PCB-206	2.03e+07	0.78 y	51:06	0.97	101	2.50				101
PCB-209	1.67e+07	1.19 y	52:17	1.06	53.3	2.50	-	-	*	
13C-PCB-209	2.97e+07	1.18 y	52:16	1.42	100	2.50				100
13C-PCB-194	2.08e+07	0.89 y	49:40	-	31.9	2.50				

Analyst: _____ Date: 7/2/16

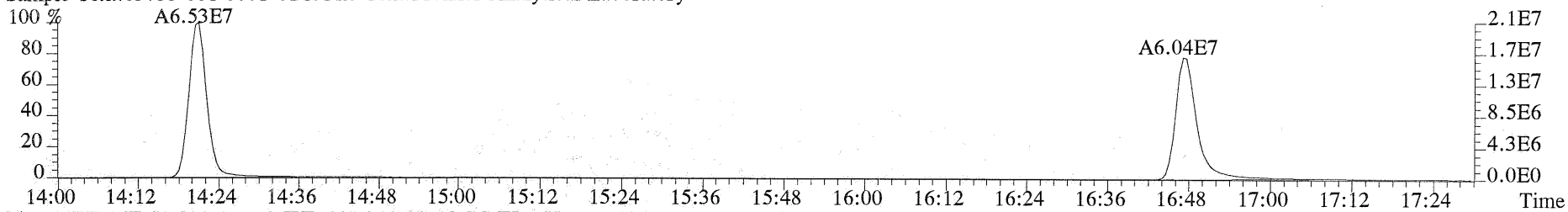
File:02JUL16Z #1-901 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



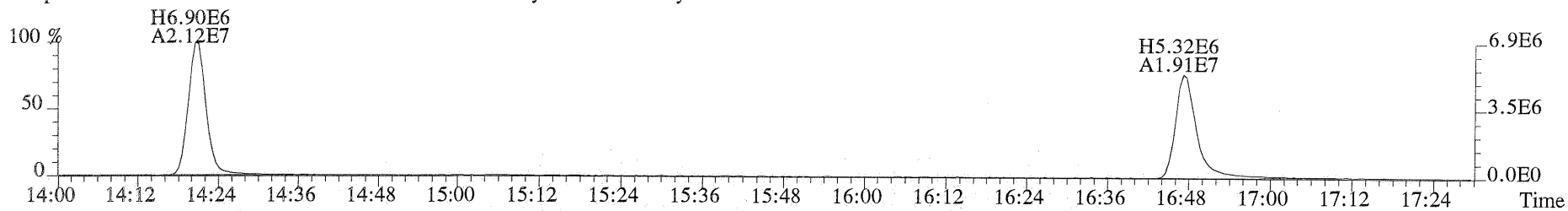
File:02JUL16Z #1-901 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



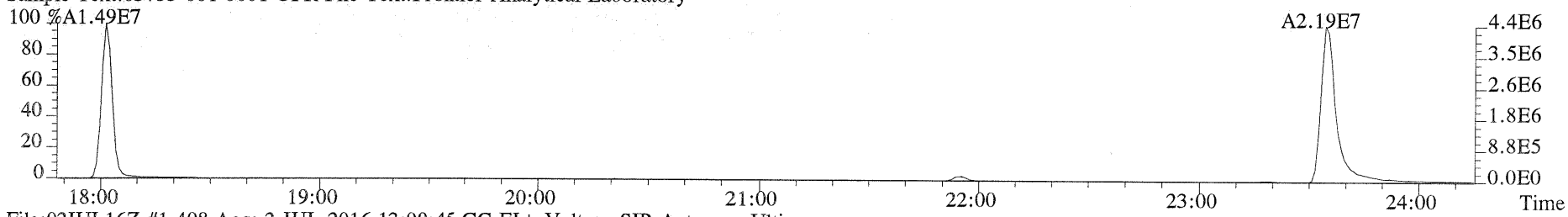
File:02JUL16Z #1-901 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



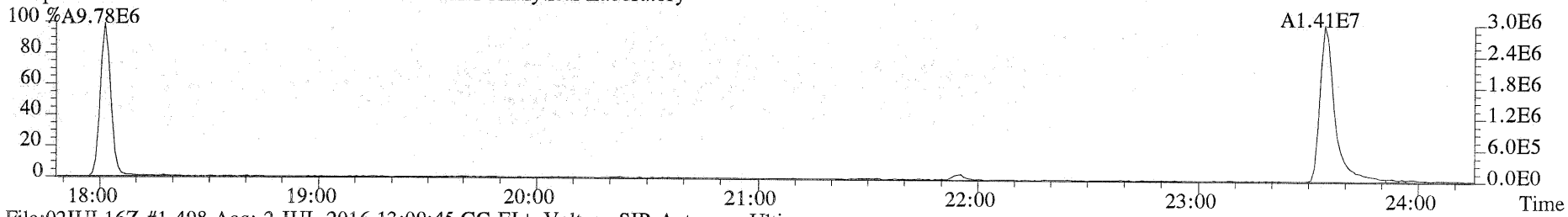
File:02JUL16Z #1-901 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



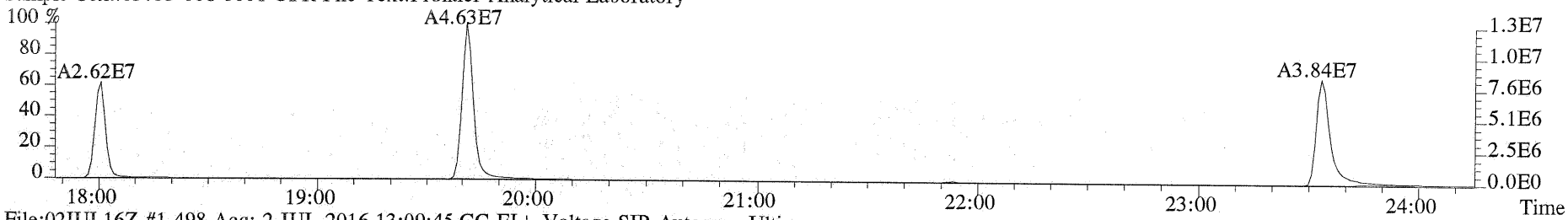
File:02JUL16Z #1-498 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



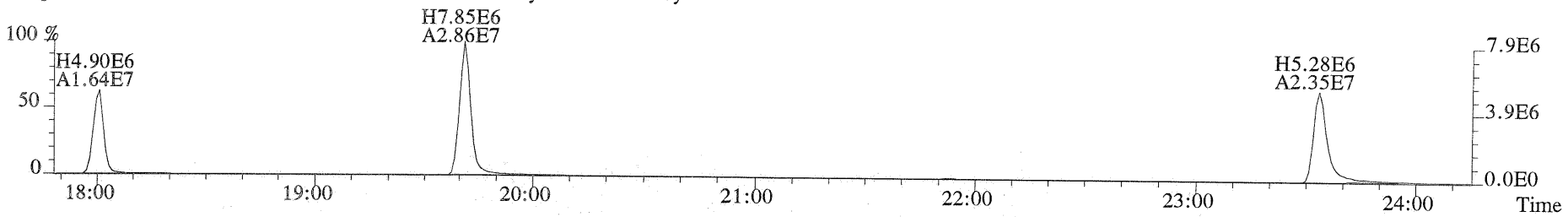
File:02JUL16Z #1-498 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



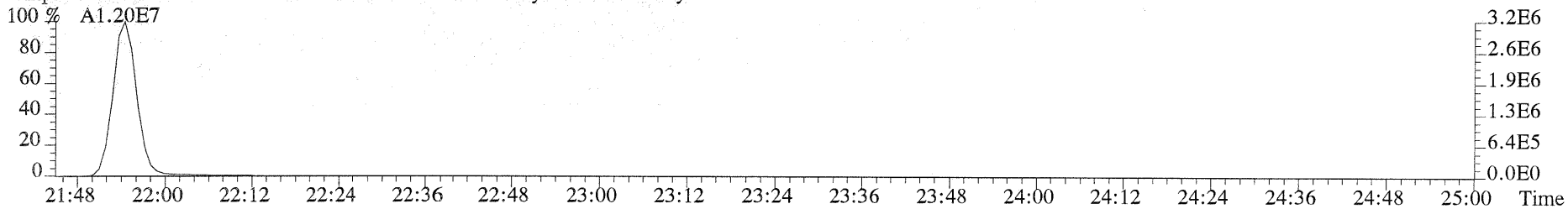
File:02JUL16Z #1-498 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



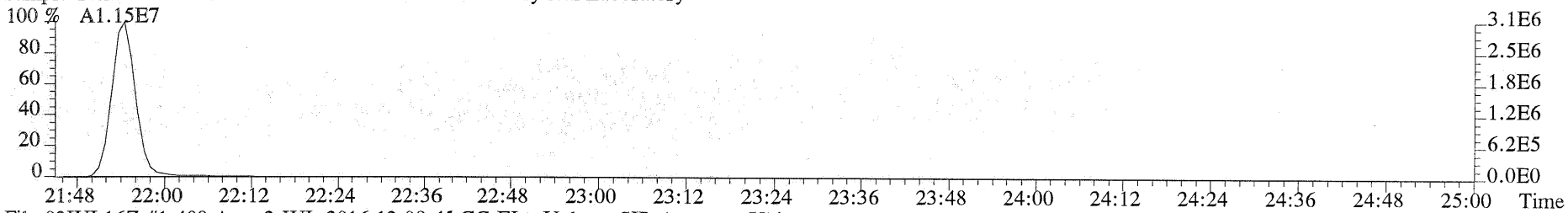
File:02JUL16Z #1-498 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



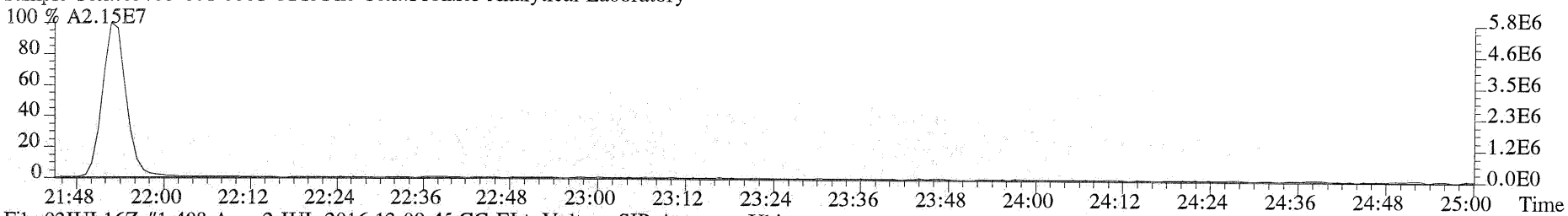
File:02JUL16Z #1-498 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



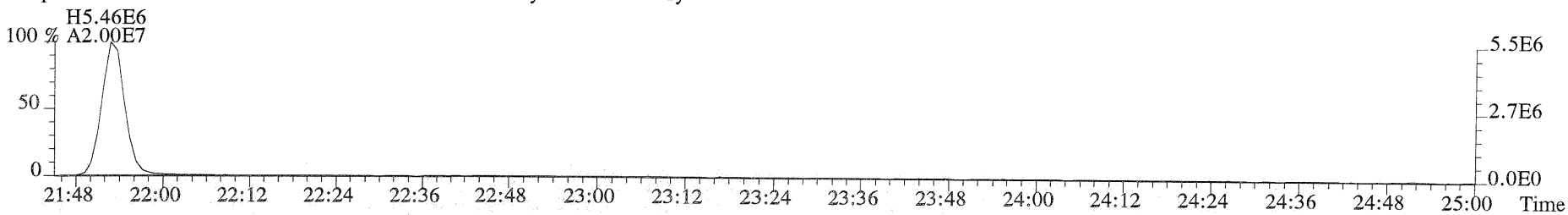
File:02JUL16Z #1-498 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



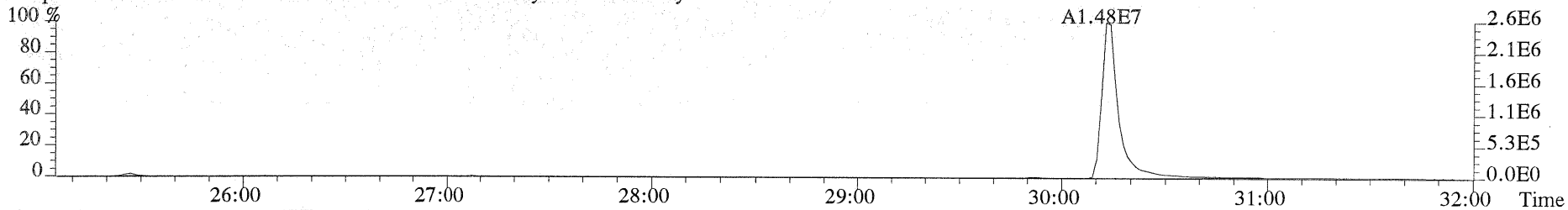
File:02JUL16Z #1-498 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



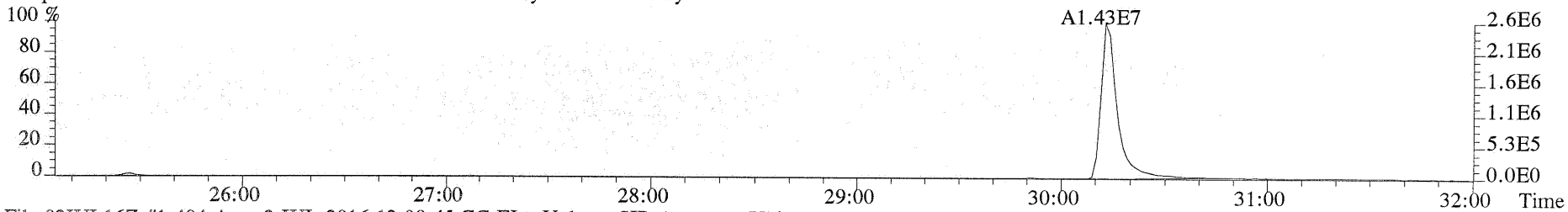
File:02JUL16Z #1-498 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



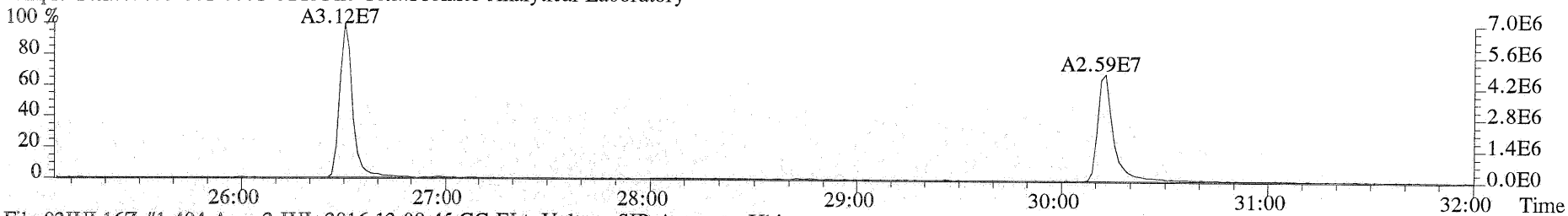
File:02JUL16Z #1-404 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



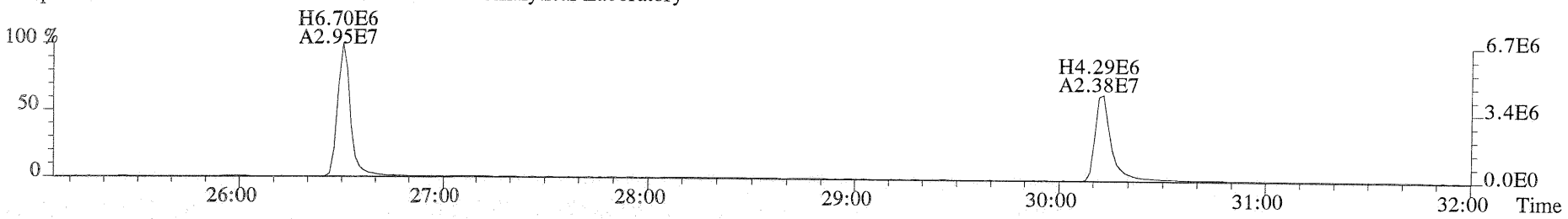
File:02JUL16Z #1-404 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



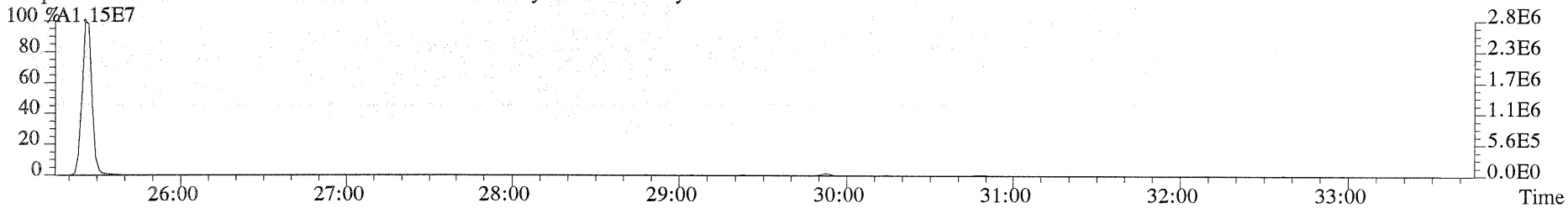
File:02JUL16Z #1-404 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



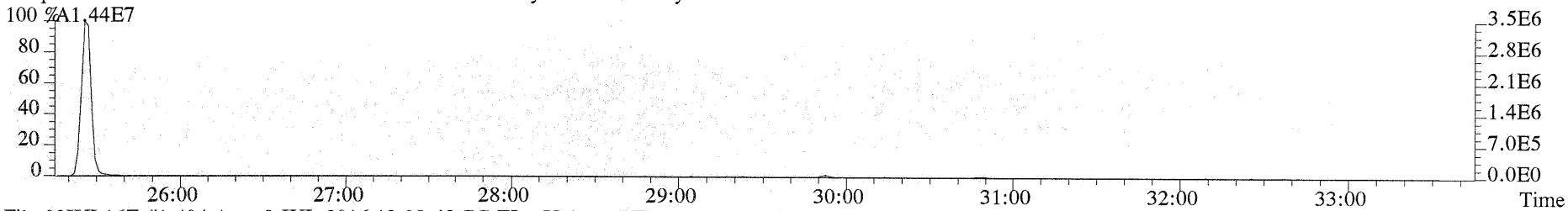
File:02JUL16Z #1-404 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



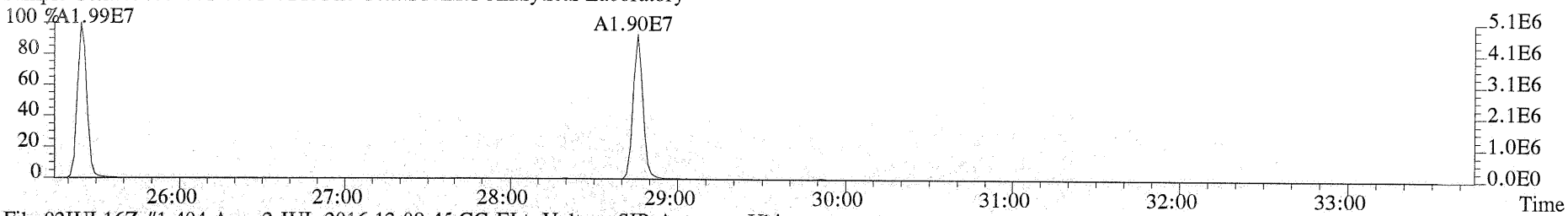
File:02JUL16Z #1-404 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



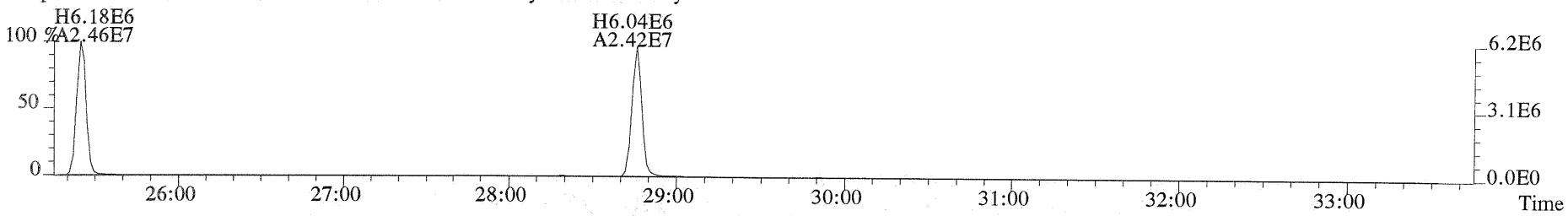
File:02JUL16Z #1-404 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



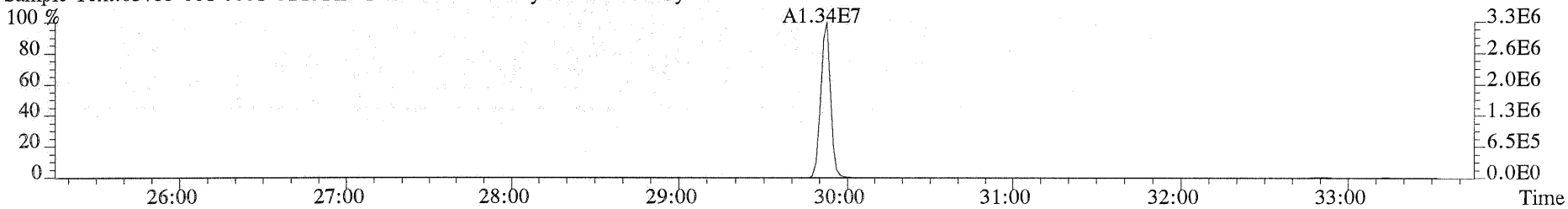
File:02JUL16Z #1-404 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



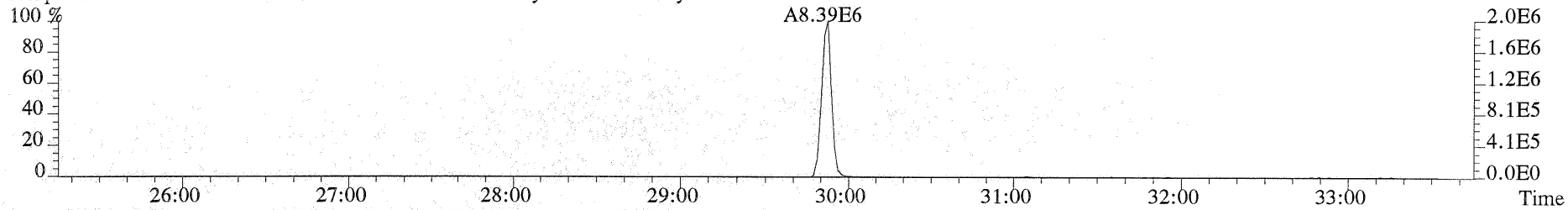
File:02JUL16Z #1-404 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



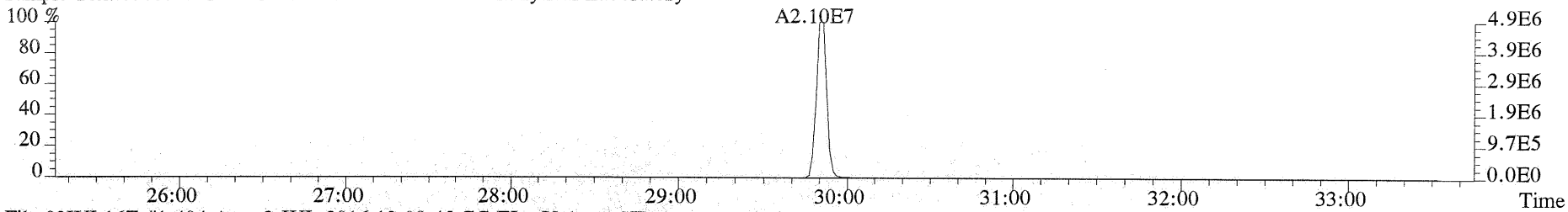
File:02JUL16Z #1-404 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-404 Acq: 2-JUL-2016 13:09:45 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:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-404 Acq: 2-JUL-2016 13:09:45 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:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



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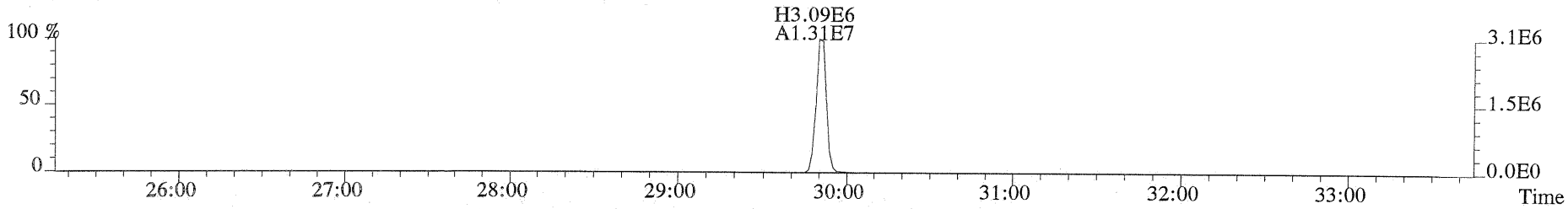
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



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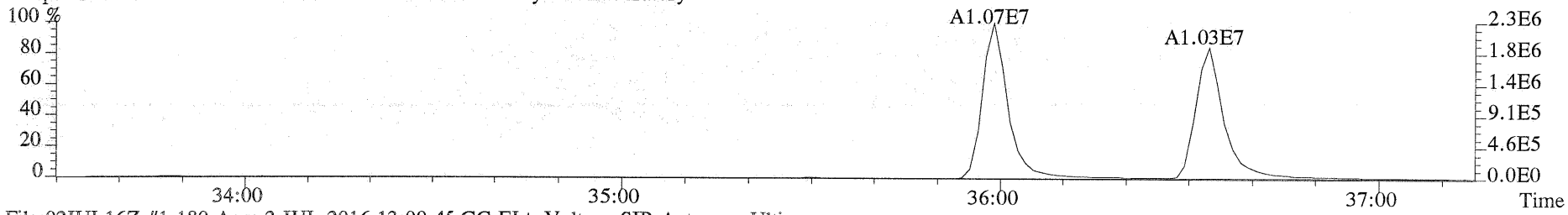
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



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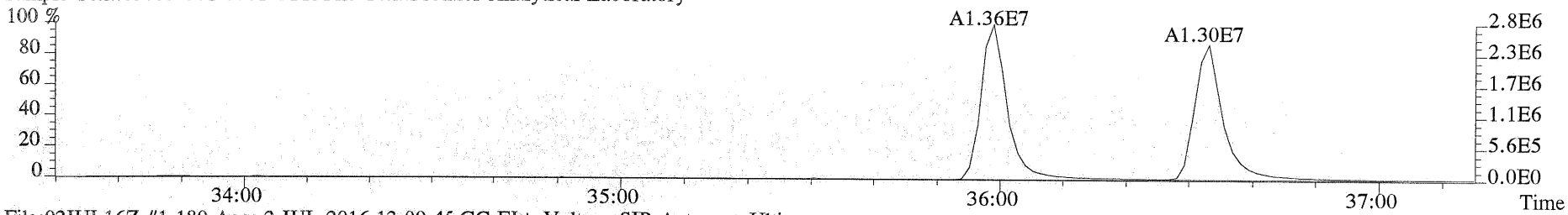
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



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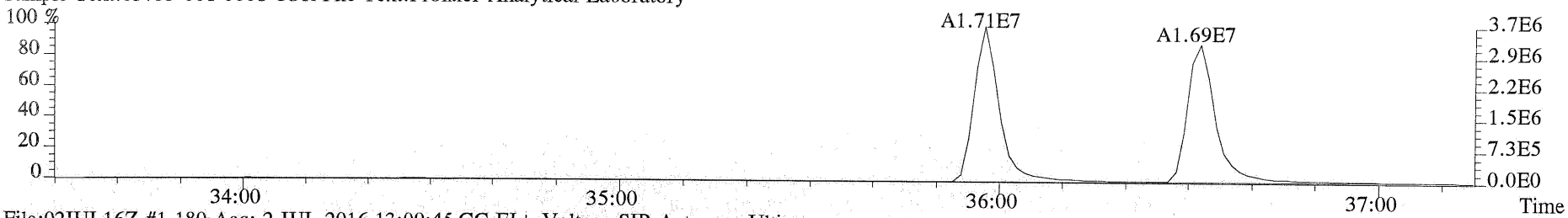
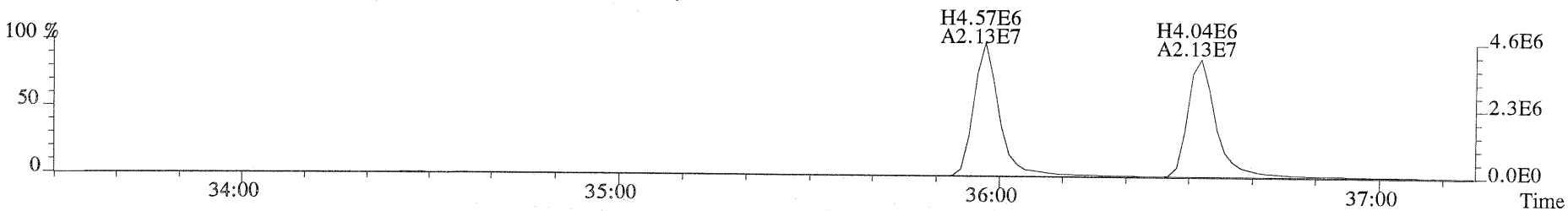
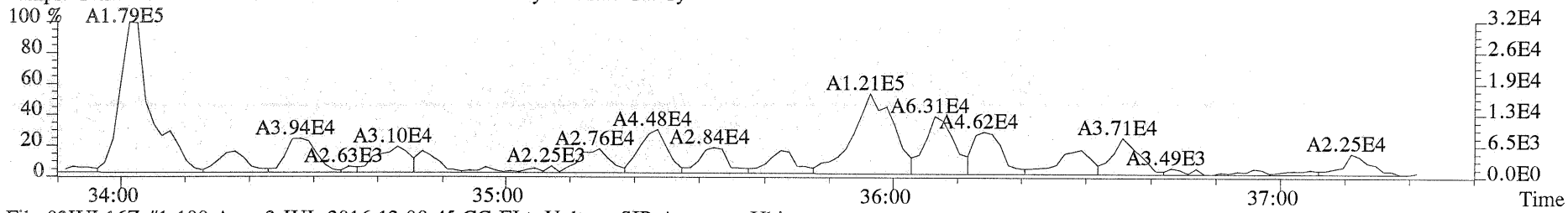
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



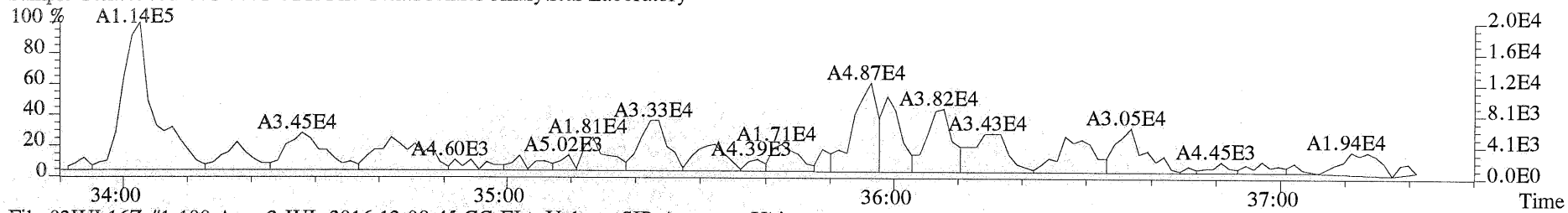
File:02JUL16Z #1-180 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



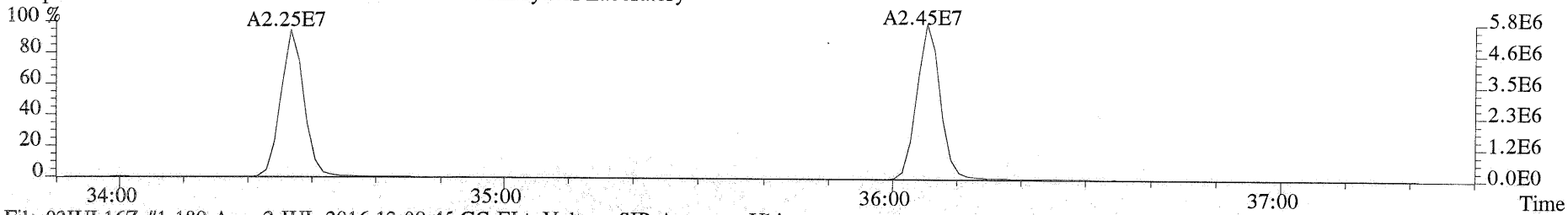
File:02JUL16Z #1-180 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



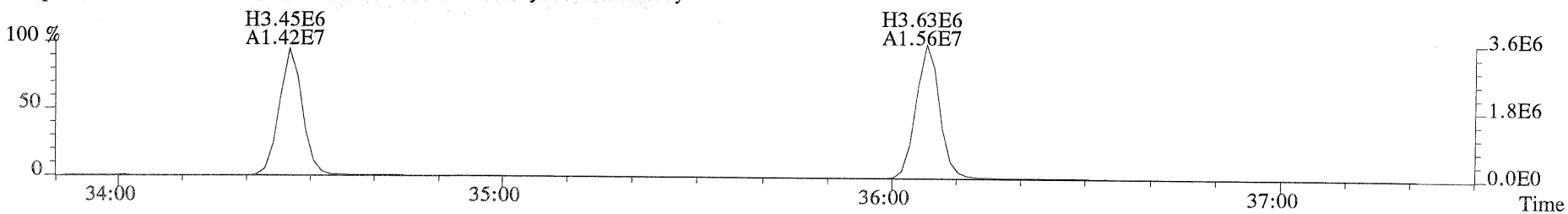
File:02JUL16Z #1-180 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



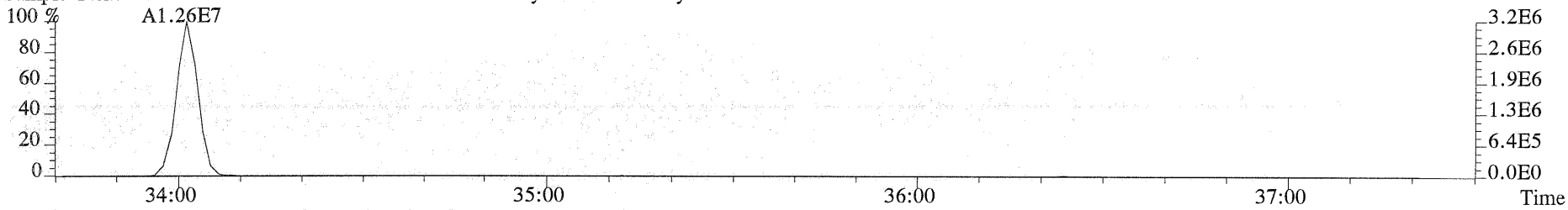
File:02JUL16Z #1-180 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



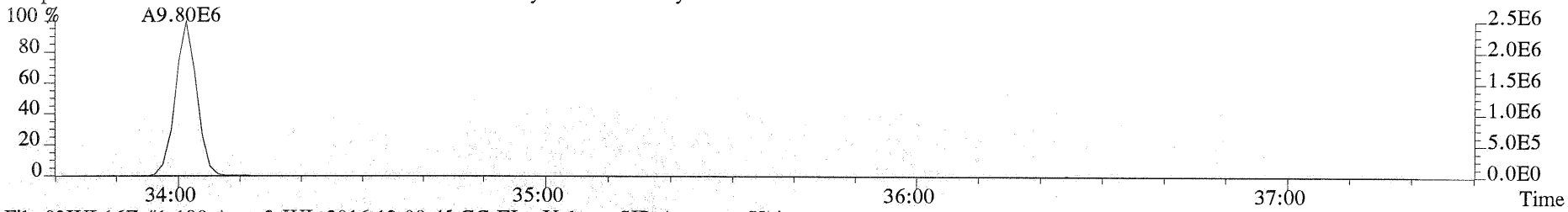
File:02JUL16Z #1-180 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



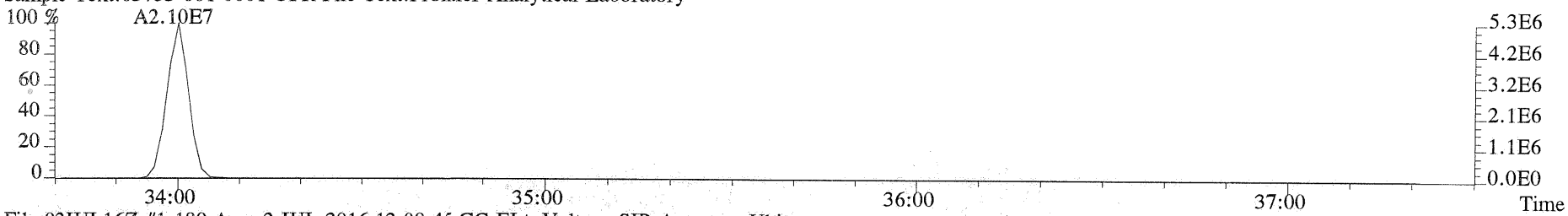
File:02JUL16Z #1-180 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



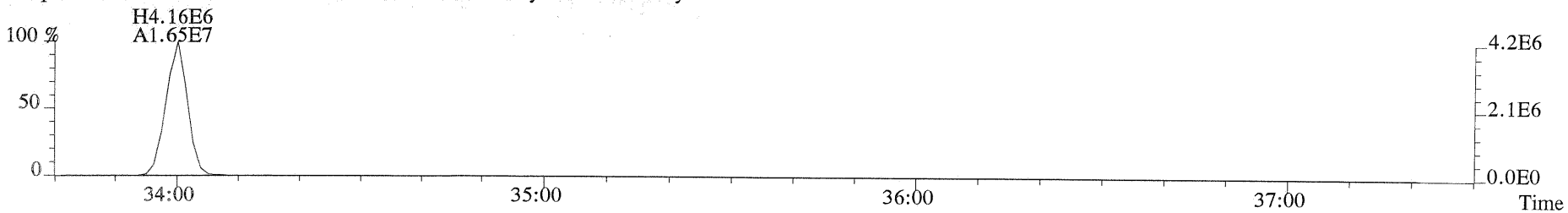
File:02JUL16Z #1-180 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



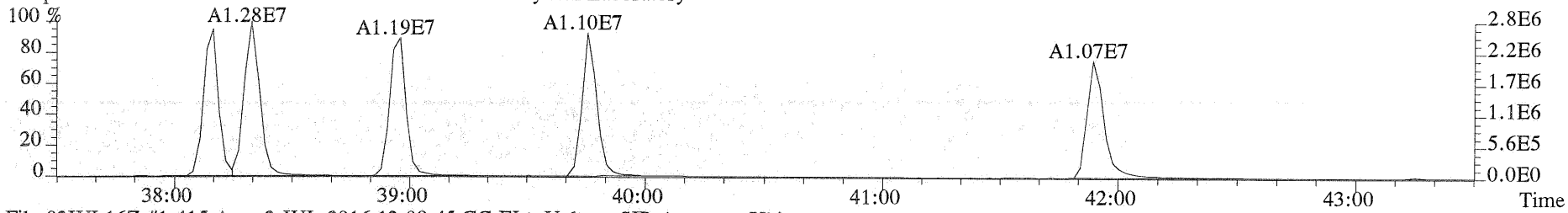
File:02JUL16Z #1-180 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



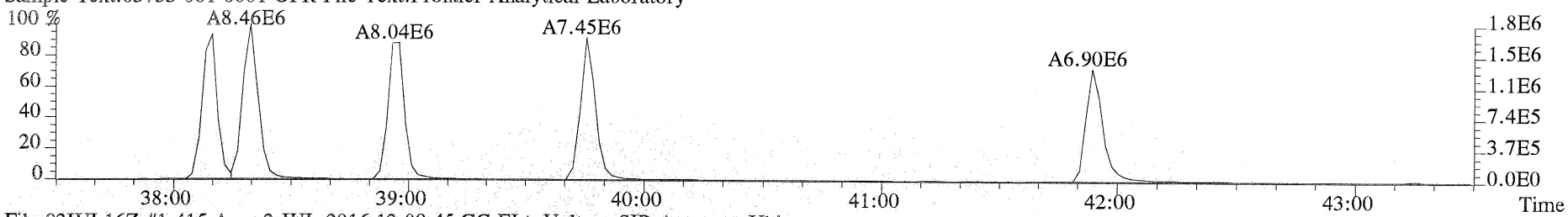
File:02JUL16Z #1-180 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



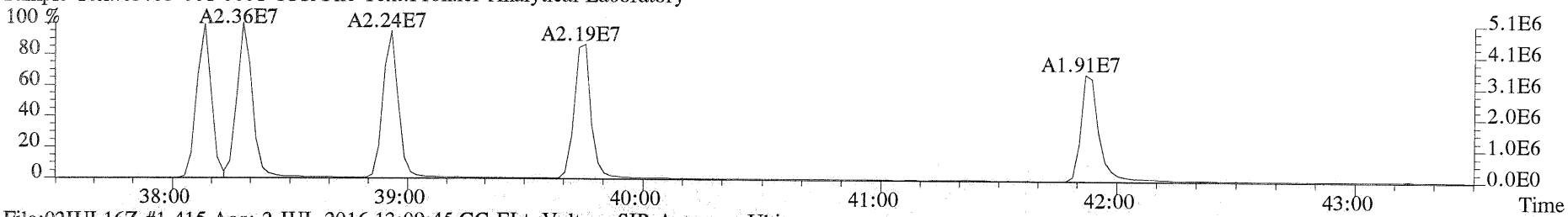
File:02JUL16Z #1-415 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



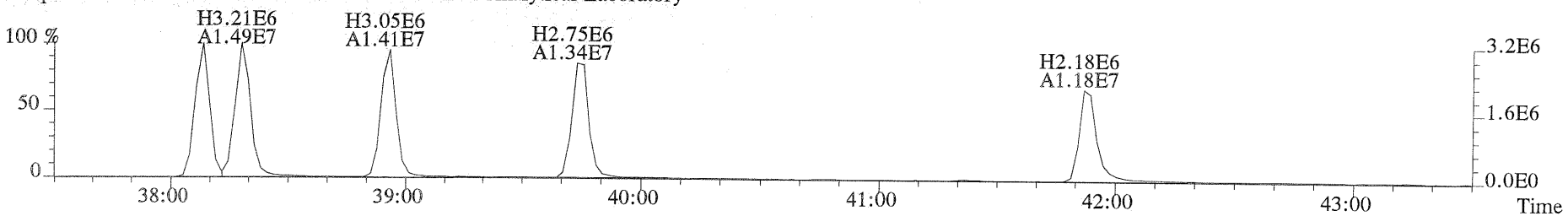
File:02JUL16Z #1-415 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



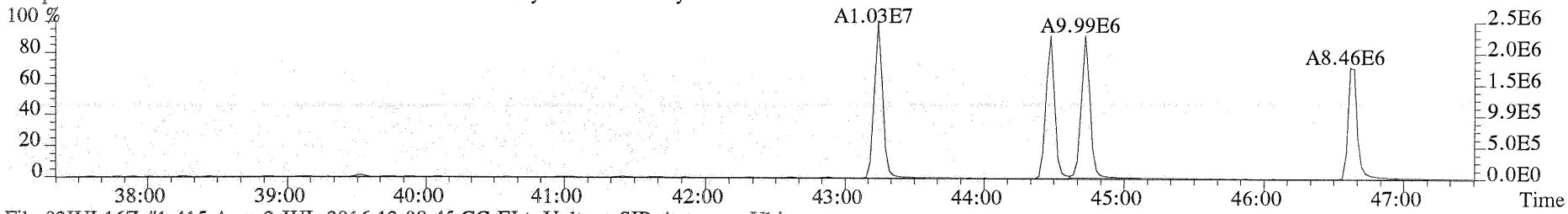
File:02JUL16Z #1-415 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



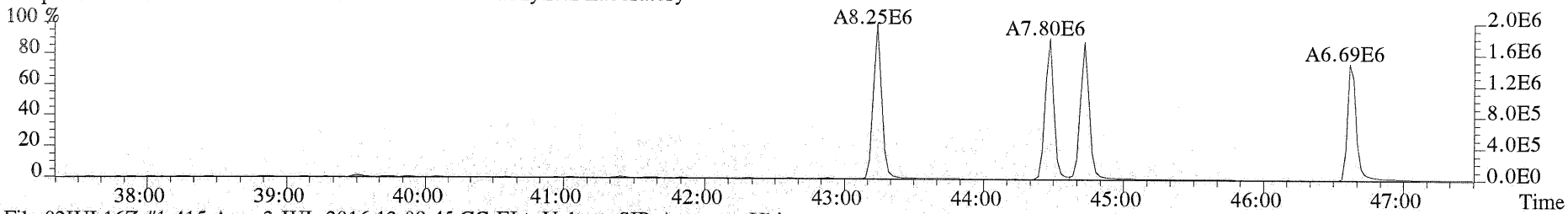
File:02JUL16Z #1-415 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



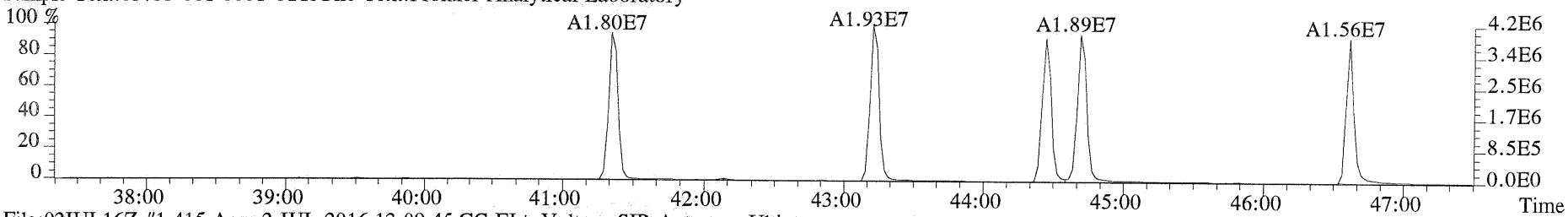
File:02JUL16Z #1-415 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



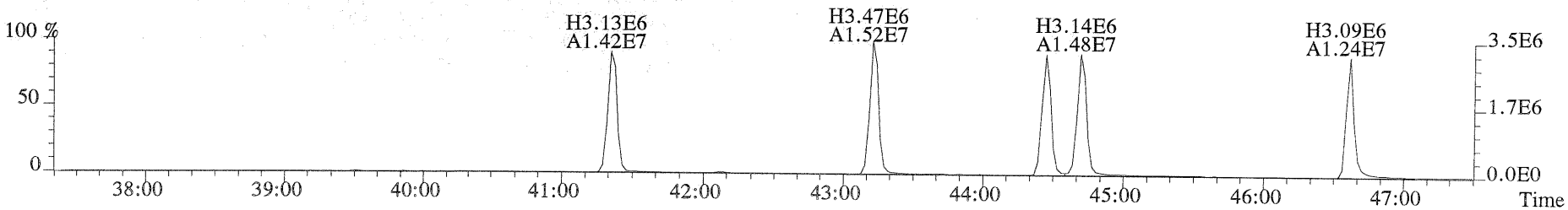
File:02JUL16Z #1-415 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



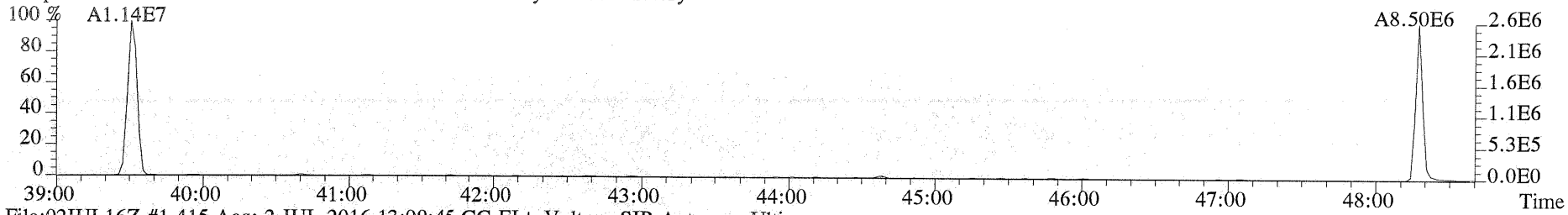
File:02JUL16Z #1-415 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



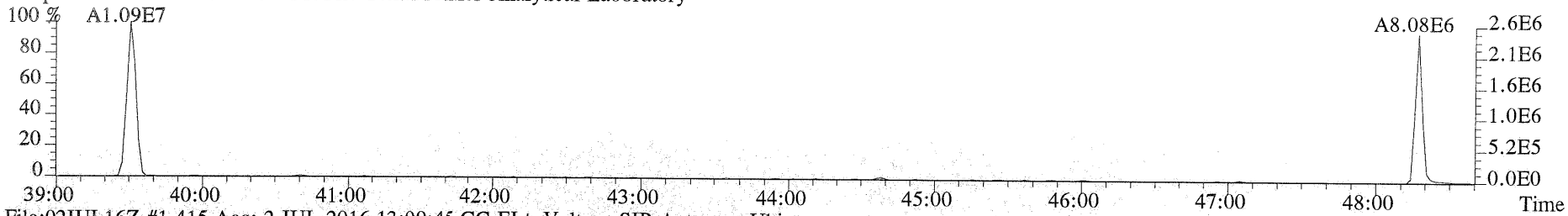
File:02JUL16Z #1-415 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



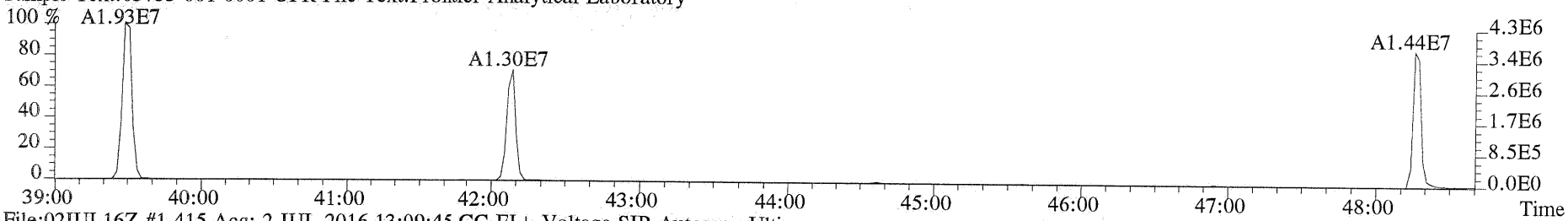
File:02JUL16Z #1-415 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



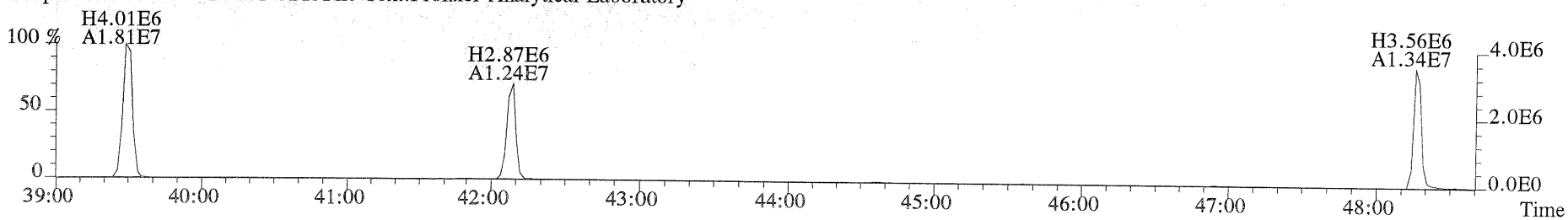
File:02JUL16Z #1-415 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



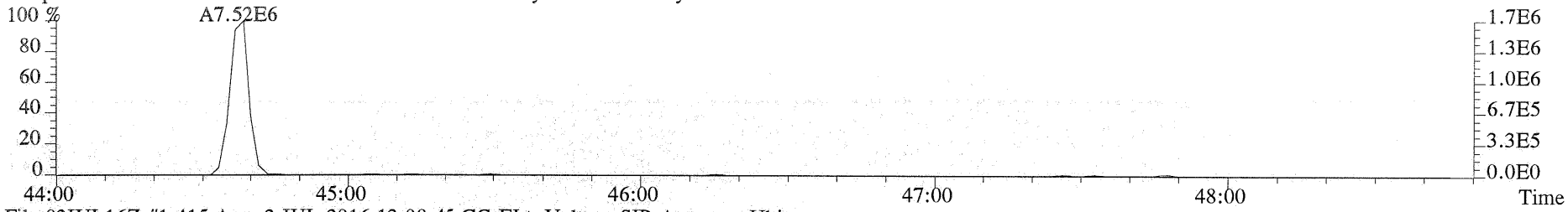
File:02JUL16Z #1-415 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



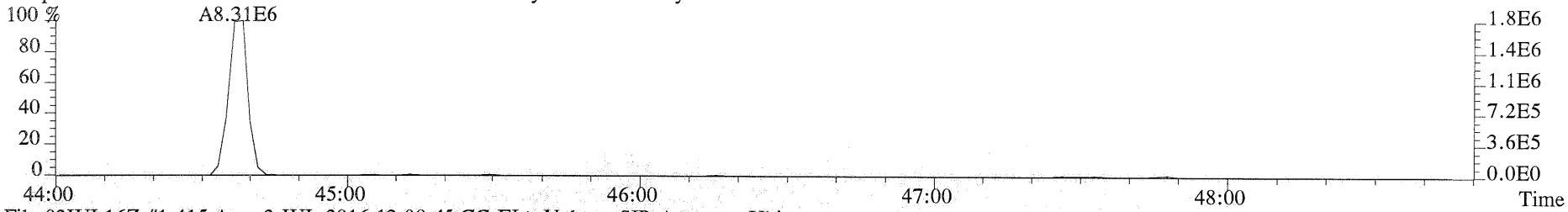
File:02JUL16Z #1-415 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 13:09:45 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:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 13:09:45 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:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



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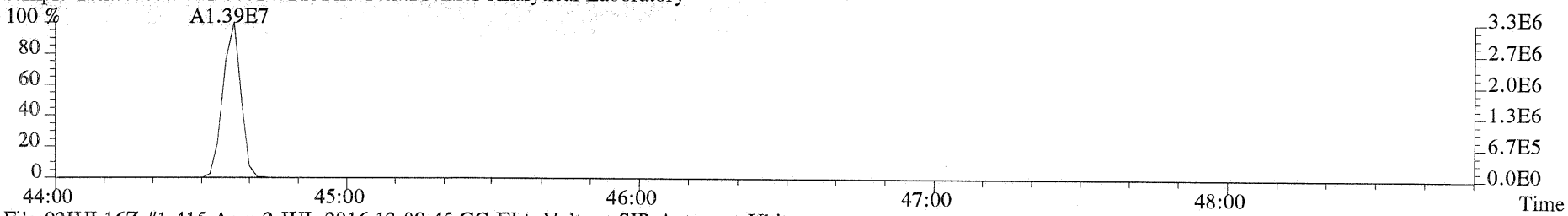
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



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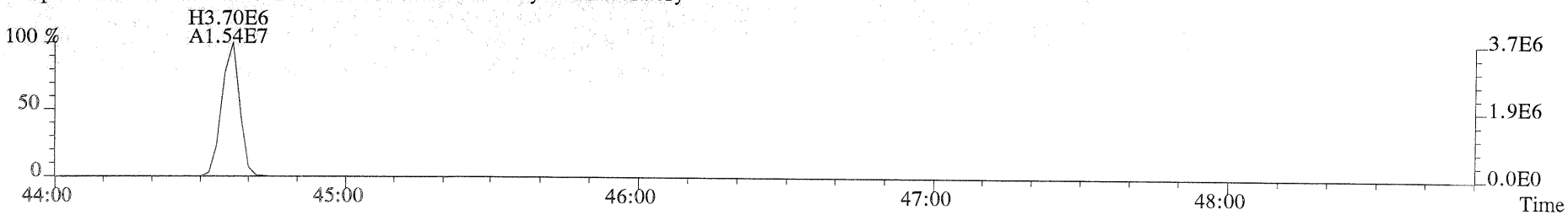
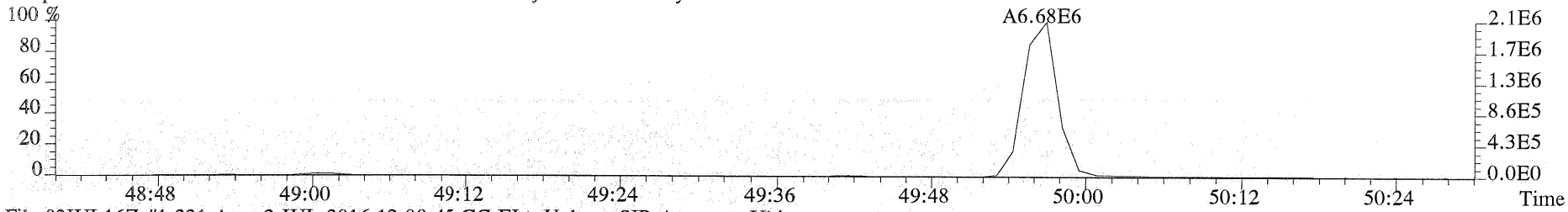
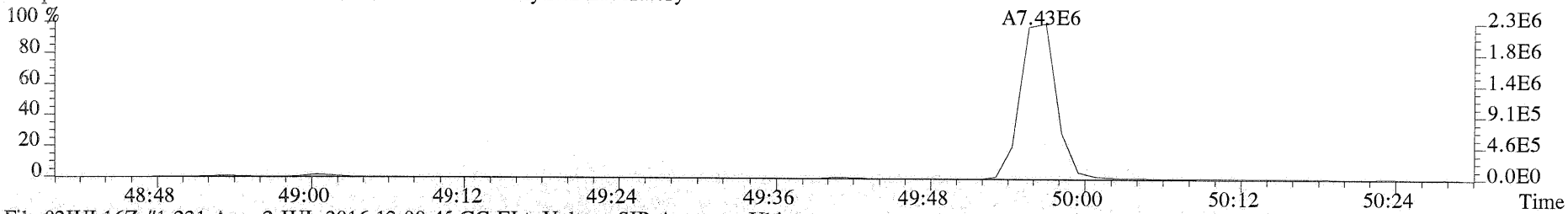
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



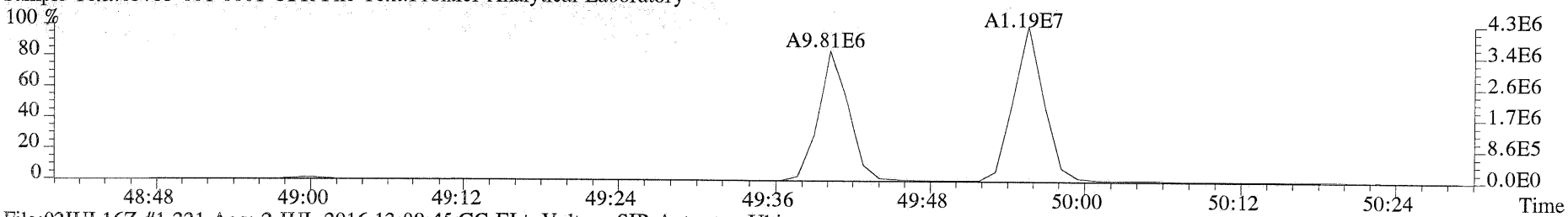
File:02JUL16Z #1-221 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



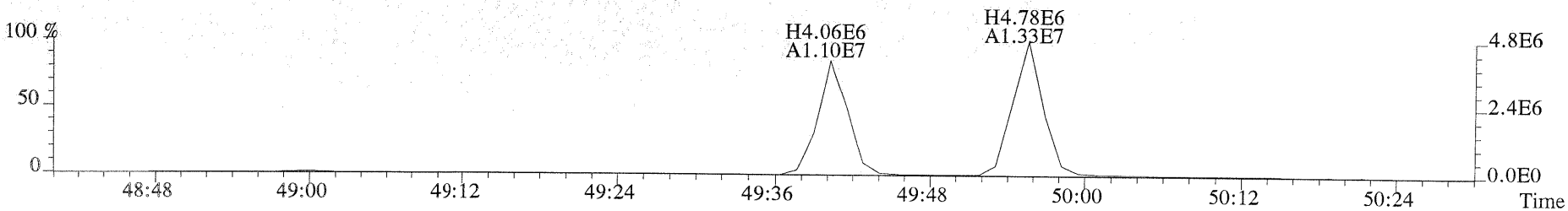
File:02JUL16Z #1-221 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



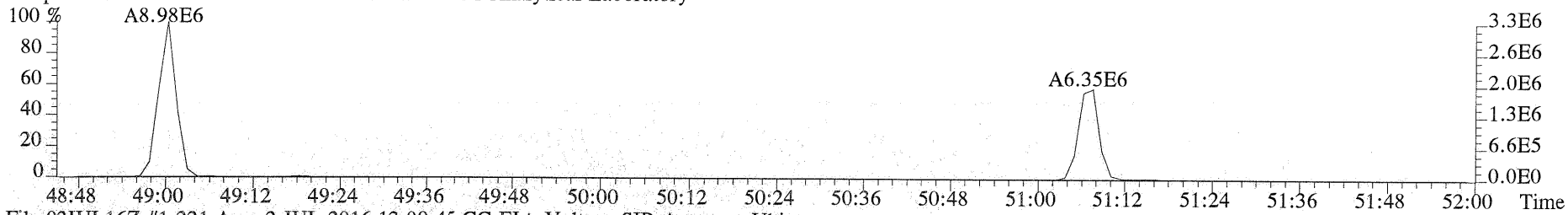
File:02JUL16Z #1-221 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



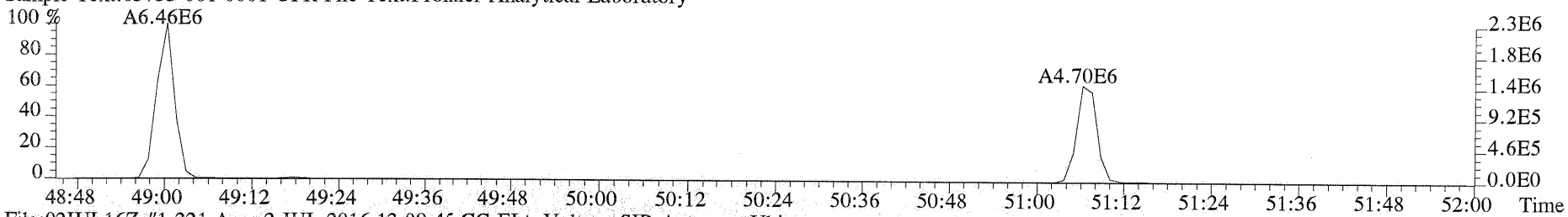
File:02JUL16Z #1-221 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



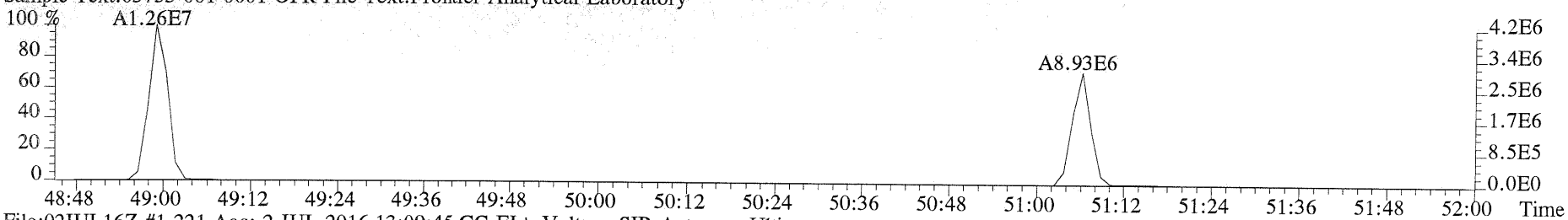
File:02JUL16Z #1-221 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



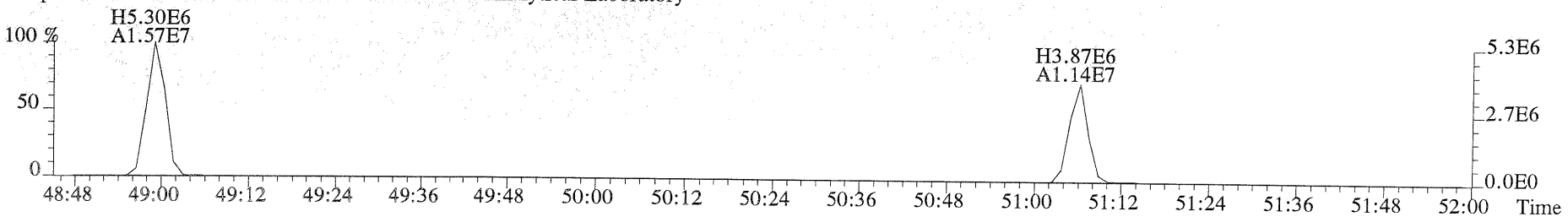
File:02JUL16Z #1-221 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



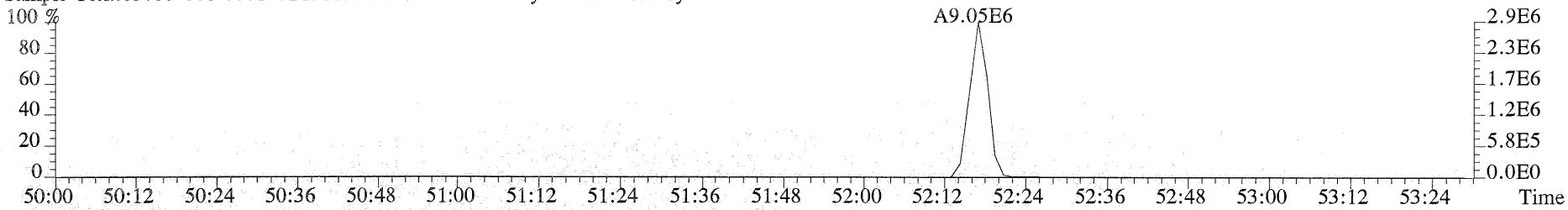
File:02JUL16Z #1-221 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



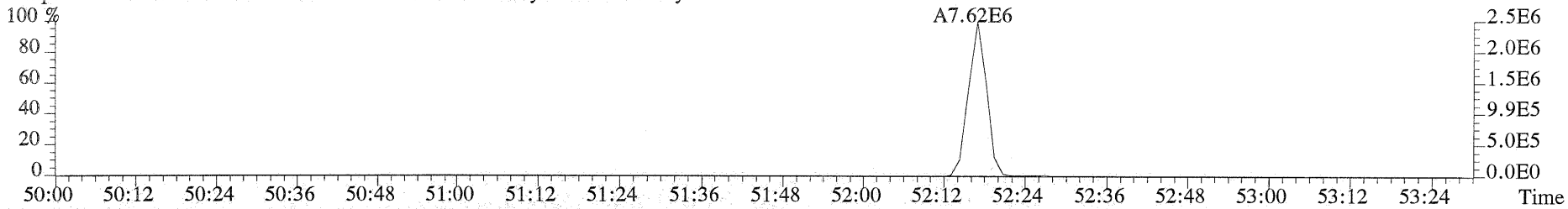
File:02JUL16Z #1-221 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



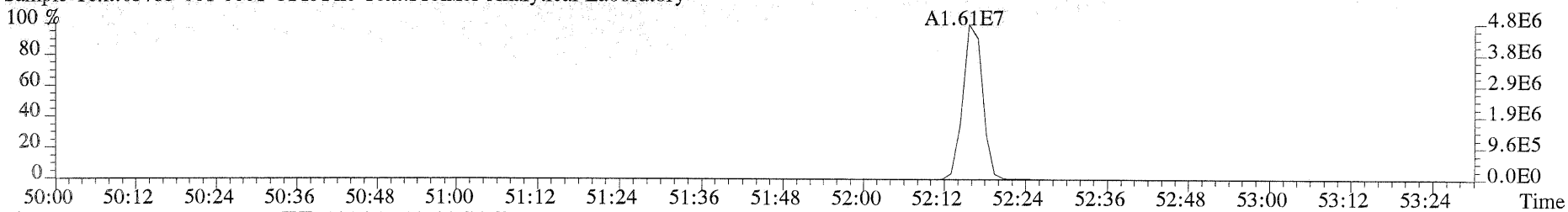
File:02JUL16Z #1-221 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



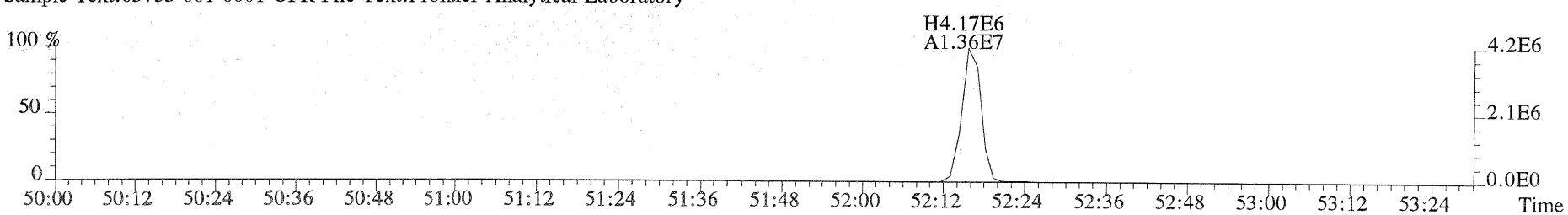
File:02JUL16Z #1-221 Acq: 2-JUL-2016 13:09:45 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 13:09:45 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:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 13:09:45 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:03753-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 09967-001-0001-SA Filename: 02JUL16Z Sam:7 Acquired: 2-JUL-16 17:09:38 ICal: DAILY209FAL4-7-2-16
Client ID: LDW-CS-C1-S010-PW-TB ConCal: ST070216Z1 EndCal: ST070216Z2
Results: 9967 GC Column: DB1 Amount: 1.000

PCB-188	*	*	n	NotFnd	1.16	*		976	732	3.43	
13C-PCB-188	4.56e+07	1.07	y	39:30	1.12	9640					96.4
PCB-184	1.62e+07	1.05	y	39:58	1.27	3170		-	-	*	
PCB-179	*	*	n	NotFnd	1.27	*		976	732	3.16	
PCB-176	*	*	n	NotFnd	1.24	*		976	732	3.23	
PCB-186	*	*	n	NotFnd	1.19	*		976	732	3.35	
PCB-178	*	*	n	NotFnd	0.90	*		976	732	4.44	
PCB-175	*	*	n	NotFnd	0.93	*		976	732	4.31	
PCB-187	*	*	n	NotFnd	0.98	*		976	732	4.09	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.98	*		976	732	4.09	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.99	*		976	732	4.03	
PCB-185	*	*	n	NotFnd	0.87	*		976	732	4.59	
PCB-174	*	*	n	NotFnd	0.95	*		976	732	4.22	
PCB-181	*	*	n	NotFnd	0.81	*		976	732	4.92	
PCB-177	*	*	n	NotFnd	0.84	*		976	732	4.74	
PCB-171	*	*	n	NotFnd	0.89	*		976	732	4.48	
PCB-173	*	*	n	NotFnd	0.79	*		976	732	5.07	
PCB-172	2.69e+05	1.06	y	45:14	0.83	80.1		-	-	*	
PCB-192	9.57e+06	1.07	y	45:27	1.06	2240		-	-	*	
PCB-180	*	*	n	NotFnd	0.98	*		976	732	4.10	
PCB-193	*	*	n	NotFnd	1.15	*		976	732	3.48	
PCB-191	*	*	n	NotFnd	1.12	*		976	732	3.58	
PCB-170	*	*	n	NotFnd	0.77	*		976	732	5.19	
PCB-190	*	*	n	NotFnd	1.06	*		976	732	3.78	
PCB-189	*	*	n	NotFnd	1.15	*		976	732	3.49	
13C-PCB-189	3.50e+07	1.07	y	48:17	0.86	9610					96.1
PCB-202	*	*	n	NotFnd	0.98	*		424	588	3.30	
PCB-201	*	*	n	NotFnd	1.03	*		424	588	3.16	
PCB-204	1.42e+07	0.89	y	45:14	1.00	4040		-	-	*	
PCB-197	1.31e+05	0.96	y	45:30	1.00	37.1		-	-	*	
PCB-200	*	*	n	NotFnd	1.00	*		424	588	3.25	
PCB-198	*	*	n	NotFnd	0.71	*		424	588	4.55	
PCB-199	*	*	n	NotFnd	0.67	*		424	588	4.83	
PCB-203	*	*	n	NotFnd	0.74	*		424	588	4.36	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.74	*		424	588	4.36	Co-elute PCB 203
13C-PCB-202	3.52e+07	0.91	y	44:38	0.89	9420					94.2
13C-PCB-178	3.39e+07	1.07	y	42:10	0.78	10400					104
13C-PCB-138	4.21e+07	1.26	y	41:22	-	42.7					
PCB-195	*	*	n	NotFnd	0.78	*		1430	1600	7.56	
PCB-194	*	*	n	NotFnd	0.87	*		1430	1600	6.82	
PCB-205	*	*	n	NotFnd	1.07	*		1430	1600	5.54	
13C-PCB-205	3.56e+07	0.92	y	49:55	1.20	9900					99.0
PCB-208	*	*	n	NotFnd	1.00	*		1380	1340	5.77	
13C-PCB-208	3.72e+07	0.80	y	48:59	1.39	8880					88.8
PCB-207	6.99e+04	1.30	y	49:18	1.09	20.5		-	-	*	
PCB-206	*	*	n	NotFnd	1.04	*		1380	1340	7.44	
13C-PCB-206	2.56e+07	0.80	y	51:06	0.97	8760					87.6
PCB-209	7.20e+04	1.24	y	52:17	1.06	19.3	J	-	-	*	
13C-PCB-209	3.54e+07	1.19	y	52:15	1.42	8240					82.4
13C-PCB-194	3.01e+07	0.93	y	49:40	-	46.2					

Analyst: _____ Date: 7/5/16

FAL ID: 09967-001-0001-SA Filename: 02JUL16Z Sam:7 Acquired: 2-JUL-16 17:09:38 ICal: DAILY209FAL4-7-2-16
Client ID: LDW-CS-C1-S010-PW-TB ConCal: ST070216Z1 EndCal: ST070216Z2
Results: 9967 GC Column: DB1 Amount: 1.000

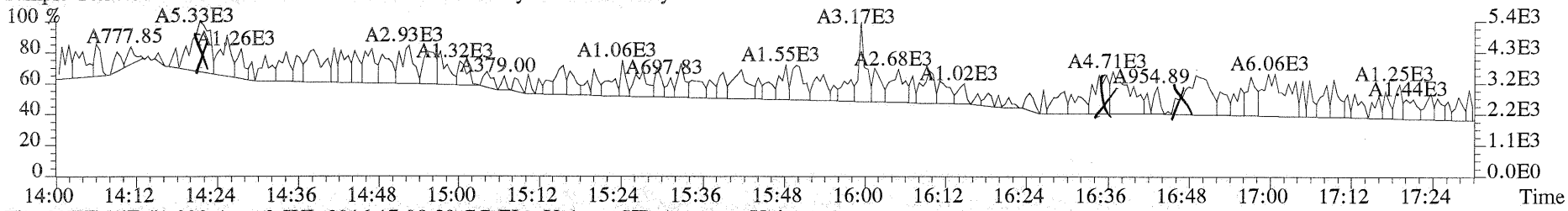
Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	0.95	*		4560	3050	6.41	
13C-PCB-1	9.90e+07	3.10	y	14:21	1.24	8960					89.6
PCB-2	*	*	n	NotFnd	0.89	*		4560	3050	8.36	
PCB-3	*	*	n	NotFnd	0.99	*		4560	3050	9.06	
13C-PCB-3	8.83e+07	3.09	y	16:48	1.14	8720					87.2
PCB-4	*	*	n	NotFnd	1.18	*		3300	2600	8.19	
PCB-10	*	*	n	NotFnd	1.17	*		3300	2600	9.02	
13C-PCB-4	5.22e+07	1.64	y	18:00	0.59	9870					98.7
PCB-9	*	*	n	NotFnd	1.32	*		3300	2600	8.00	
PCB-7	*	*	n	NotFnd	1.35	*		3300	2600	7.80	
PCB-6	*	*	n	NotFnd	1.37	*		3300	2600	7.71	
PCB-8	*	*	n	NotFnd	1.30	*		3300	2600	8.09	
PCB-5	*	*	n	NotFnd	1.34	*		3300	2600	7.89	
PCB-14	3.44e+07	1.54	y	21:47	1.27	4410		-	-	*	
PCB-11	3.79e+05	1.67	y	22:57	1.21	51.2		-	-	*	
PCB-13	*	*	n	NotFnd	1.14	*		3300	2600	9.27	
PCB-12	*	*	n	NotFnd	1.22	*		3300	2600	8.64	
PCB-15	*	*	n	NotFnd	1.15	*		3300	2600	9.77	
13C-PCB-15	7.04e+07	1.64	y	23:34	0.91	8650					86.5
PCB-19	*	*	n	NotFnd	1.06	*		1190	1010	4.14	
PCB-30	*	*	n	NotFnd	1.57	*		1190	1010	2.79	
PCB-18	*	*	n	NotFnd	1.02	*		1190	1010	4.28	
PCB-17	*	*	n	NotFnd	1.12	*		1190	1010	3.89	
PCB-27	*	*	n	NotFnd	1.49	*		1190	1010	2.93	
PCB-24	*	*	n	NotFnd	1.48	*		1190	1010	2.96	
PCB-16	*	*	n	NotFnd	1.16	*		1190	1010	3.78	
PCB-32	*	*	n	NotFnd	1.40	*		1190	1010	3.13	
13C-PCB-19	4.85e+07	1.08	y	21:53	0.59	9280					92.8
13C-PCB-9	8.92e+07	1.60	y	19:41	-	43.2					
PCB-34	*	*	n	NotFnd	1.12	*		1560	1410	7.11	
PCB-23	*	*	n	NotFnd	1.13	*		1560	1410	7.06	
PCB-29	*	*	n	NotFnd	1.15	*		1560	1410	6.92	
PCB-26	*	*	n	NotFnd	1.16	*		1560	1410	6.86	
PCB-25	*	*	n	NotFnd	1.28	*		1560	1410	6.23	
PCB-31	*	*	n	NotFnd	1.09	*		1560	1410	7.33	
PCB-28	*	*	n	NotFnd	1.38	*		1560	1410	5.79	
PCB-20	*	*	n	NotFnd	1.19	*		1560	1410	6.71	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.19	*		1560	1410	6.71	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.19	*		1560	1410	6.71	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.09	*		1560	1410	7.34	
PCB-36	2.67e+07	1.06	y	28:07	1.12	4130		-	-	*	
PCB-39	*	*	n	NotFnd	1.08	*		1560	1410	7.38	
PCB-38	*	*	n	NotFnd	1.23	*		1560	1410	6.51	
PCB-35	*	*	n	NotFnd	1.09	*		1560	1410	7.32	
PCB-37	*	*	n	NotFnd	1.17	*		1560	1410	6.81	
13C-PCB-37	5.75e+07	1.08	y	30:13	1.21	9340					93.4

PCB-54	*	*	n	NotFnd	1.09	*		800	828	2.79	
PCB-50	4.56e+04	0.83	y	26:33	0.86	9.83	J	-	-	*	
PCB-53	*	*	n	NotFnd	0.82	*		800	828	3.73	
PCB-51	*	*	n	NotFnd	0.80	*		800	828	3.80	
PCB-45	*	*	n	NotFnd	0.76	*		800	828	4.01	
PCB-46	*	*	n	NotFnd	0.70	*		800	828	4.37	
PCB-52	*	*	n	NotFnd	1.06	*		800	828	2.88	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	1.06	*		800	828	2.88	Co-elute PCB 52
PCB-73	9.28e+04	0.68	y	28:54	1.01	17.0	J	-	-	*	
PCB-43	*	*	n	NotFnd	0.85	*		800	828	3.56	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.85	*		800	828	3.56	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.98	*		800	828	3.11	
PCB-48	*	*	n	NotFnd	1.04	*		800	828	2.92	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	1.04	*		800	828	2.92	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.11	*		800	828	2.73	
PCB-62	*	*	n	NotFnd	0.98	*		800	828	3.10	
PCB-44	*	*	n	NotFnd	0.74	*		800	828	4.11	
PCB-42	*	*	n	NotFnd	0.98	*		800	828	3.11	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.98	*		800	828	3.11	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	1.07	*		800	828	2.83	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	1.07	*		800	828	2.83	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	1.07	*		800	828	2.83	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	1.07	*		800	828	2.83	Co-elute PCB 72/41/71
PCB-68	4.66e+04	0.86	y	31:03	1.13	7.61	J	-	-	*	
PCB-40	*	*	n	NotFnd	0.65	*		800	828	4.69	
PCB-57	*	*	n	NotFnd	1.12	*		800	828	2.72	
PCB-67	*	*	n	NotFnd	1.07	*		800	828	2.84	
PCB-58	*	*	n	NotFnd	1.07	*		800	828	2.84	
PCB-63	*	*	n	NotFnd	1.11	*		800	828	2.74	
PCB-74	*	*	n	NotFnd	1.14	*		800	828	2.67	
PCB-61	*	*	n	NotFnd	1.10	*		800	828	2.76	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	1.10	*		800	828	2.76	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.14	*		800	828	2.66	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.14	*		800	828	2.66	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.23	*		800	828	2.47	
PCB-55	2.08e+05	0.77	y	33:20	1.08	35.4		-	-	*	
13C-PCB-54	5.42e+07	0.80	y	25:24	1.07	9910					99.1
PCB-104	1.37e+07	1.62	y	29:52	1.23	2760		-	-	*	
PCB-96	*	*	n	NotFnd	1.15	*		592	960	3.63	
PCB-103	*	*	n	NotFnd	0.96	*		592	960	4.33	
PCB-100	*	*	n	NotFnd	0.91	*		592	960	4.59	
PCB-94	*	*	n	NotFnd	0.76	*		592	960	5.46	
PCB-98	*	*	n	NotFnd	0.99	*		592	960	4.21	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.99	*		592	960	4.21	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.82	*		592	960	5.11	
PCB-93	5.58e+04	1.45	y	32:56	0.76	18.1	J	-	-	*	
PCB-88	*	*	n	NotFnd	0.87	*		592	960	4.78	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.87	*		592	960	4.78	Co-elute PCB 88
PCB-121	1.38e+07	1.61	y	33:20	1.05	3250		-	-	*	
13C-PCB-104	4.05e+07	1.60	y	29:50	0.81	9850					98.5
13C-PCB-28	7.84e+07	1.08	y	26:30	1.42	10900					109
13C-PCB-52	5.09e+07	0.78	y	28:45	-	40.8					

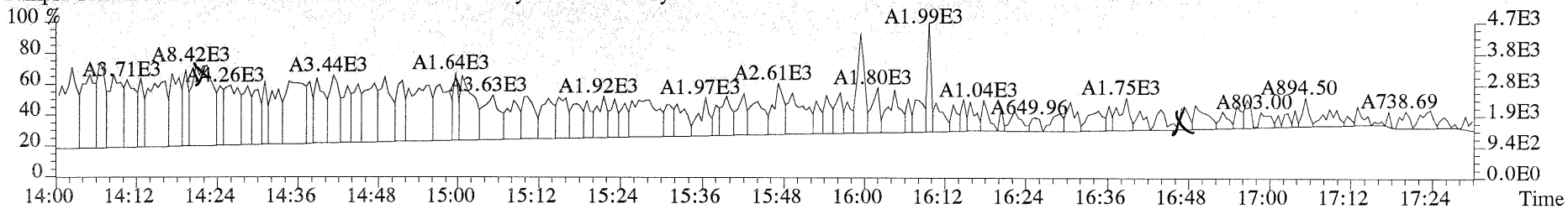
PCB-56	*	*	n	NotFnd	1.17	*		1740	2060	9.31	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.17	*		1740	2060	9.31	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.20	*		1740	2060	9.11	
PCB-78	1.88e+07	0.77	y	35:30	1.21	3090		-	-	*	
PCB-81	*	*	n	NotFnd	1.27	*		1740	2060	8.26	
13C-PCB-81	5.01e+07	0.79	y	35:59	1.12	9860					98.6
PCB-77	*	*	n	NotFnd	1.14	*		1740	2060	9.91	
13C-PCB-77	5.04e+07	0.80	y	36:33	1.10	10100					101
PCB-155	1.43e+07	1.29	y	34:01	1.13	2880		-	-	*	
PCB-150	*	*	n	NotFnd	1.02	*		724	668	3.33	
PCB-152	*	*	n	NotFnd	1.05	*		724	668	3.22	
PCB-145	*	*	n	NotFnd	0.99	*		724	668	3.42	
PCB-136	*	*	n	NotFnd	1.01	*		724	668	3.36	
PCB-148	*	*	n	NotFnd	0.80	*		724	668	4.25	
PCB-154	*	*	n	NotFnd	0.89	*		724	668	3.81	
13C-PCB-155	4.38e+07	1.28	y	33:60	1.01	9570					95.7
13C-PCB-111	5.52e+07	1.59	y	36:05	1.13	10800					108
13C-PCB-101	4.52e+07	1.61	y	34:26	-	42.0					
PCB-84	*	*	n	NotFnd	0.80	*		1020	1170	6.70	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.80	*		1020	1170	6.70	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.78	*		1020	1170	6.79	
PCB-90	*	*	n	NotFnd	0.87	*		1020	1170	6.12	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.87	*		1020	1170	6.12	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.07	*		1020	1170	4.98	
PCB-99	*	*	n	NotFnd	0.90	*		1020	1170	5.94	
PCB-119	*	*	n	NotFnd	1.16	*		1020	1170	4.61	
PCB-83	*	*	n	NotFnd	0.93	*		1020	1170	5.71	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.93	*		1020	1170	5.71	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.05	*		1020	1170	5.09	
PCB-97	*	*	n	NotFnd	0.90	*		1020	1170	5.94	
PCB-86	*	*	n	NotFnd	0.71	*		1020	1170	7.55	
PCB-125	*	*	n	NotFnd	1.06	*		1020	1170	5.05	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	1.06	*		1020	1170	5.05	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	1.06	*		1020	1170	5.05	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.20	*		1020	1170	4.44	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.20	*		1020	1170	4.44	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.99	*		1020	1170	5.39	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.99	*		1020	1170	5.39	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.19	*		1020	1170	4.48	
PCB-110	*	*	n	NotFnd	1.18	*		1020	1170	4.52	
PCB-82	*	*	n	NotFnd	0.69	*		1020	1170	7.78	
PCB-124	*	*	n	NotFnd	1.12	*		656	912	3.41	
PCB-108	*	*	n	NotFnd	1.01	*		656	912	3.77	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.01	*		656	912	3.77	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.15	*		656	912	3.36	
13C-PCB-123	4.89e+07	1.58	y	38:09	1.10	10500					105
PCB-118	*	*	n	NotFnd	1.02	*		656	912	3.45	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.02	*		656	912	3.45	Co-elute PCB 118
13C-PCB-118	5.39e+07	1.62	y	38:19	1.16	11000					110
PCB-114	*	*	n	NotFnd	1.06	*		656	912	3.64	
13C-PCB-114	5.21e+07	1.62	y	38:55	1.13	10900					109
PCB-122	*	*	n	NotFnd	1.18	*		656	912	3.24	
PCB-105	*	*	n	NotFnd	1.13	*		656	912	3.62	
13C-PCB-105	4.94e+07	1.63	y	39:45	1.13	10400					104

PCB-127	*	*	n	NotFnd	1.04	*		656	912	3.68	
PCB-126	*	*	n	NotFnd	1.16	*		656	912	4.46	
13C-PCB-126	4.25e+07	1.58	y	41:55	0.98	10300					103
PCB-151	*	*	n	NotFnd	0.88	*		696	724	4.46	
PCB-135	*	*	n	NotFnd	0.86	*		696	724	4.60	
PCB-144	*	*	n	NotFnd	0.94	*		696	724	4.19	
PCB-147	*	*	n	NotFnd	0.97	*		696	724	4.04	
PCB-139	*	*	n	NotFnd	0.95	*		696	724	4.14	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	0.95	*		696	724	4.14	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.93	*		696	724	4.22	
PCB-143	*	*	n	NotFnd	0.89	*		696	724	4.40	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.89	*		696	724	4.40	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.90	*		696	724	4.38	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.90	*		696	724	4.38	Co-elute PCB 131
PCB-142	9.51e+06	1.28	y	39:18	0.83	2750		-	-	*	
PCB-165	*	*	n	NotFnd	1.08	*		696	724	3.64	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.08	*		696	724	3.64	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	1.01	*		696	724	3.90	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	1.01	*		696	724	3.90	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	1.10	*		696	724	3.58	
PCB-168	*	*	n	NotFnd	1.15	*		696	724	3.42	
PCB-141	*	*	n	NotFnd	0.91	*		696	724	4.31	
PCB-137	*	*	n	NotFnd	0.85	*		696	724	4.64	
PCB-130	*	*	n	NotFnd	0.83	*		696	724	4.76	
PCB-138	*	*	n	NotFnd	1.17	*		696	724	3.35	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.17	*		696	724	3.35	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.17	*		696	724	3.35	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.17	*		696	724	3.35	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.17	*		696	724	3.35	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.77	*		696	724	5.14	
PCB-166	*	*	n	NotFnd	1.13	*		696	724	3.49	
PCB-159	*	*	n	NotFnd	1.21	*		696	724	3.24	
PCB-128	*	*	n	NotFnd	0.95	*		696	724	4.16	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	0.95	*		696	724	4.16	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	1.04	*		696	724	3.67	
13C-PCB-167	4.53e+07	1.26	y	43:14	1.04	10400					104
PCB-156	*	*	n	NotFnd	1.09	*		696	724	3.54	
13C-PCB-156	4.14e+07	1.28	y	44:28	1.01	9700					97.0
PCB-157	*	*	n	NotFnd	1.00	*		696	724	3.92	
13C-PCB-157	4.47e+07	1.26	y	44:43	1.03	10300					103
PCB-169	*	*	n	NotFnd	1.02	*		696	724	4.15	
13C-PCB-169	3.64e+07	1.25	y	46:38	0.89	9700					97.0

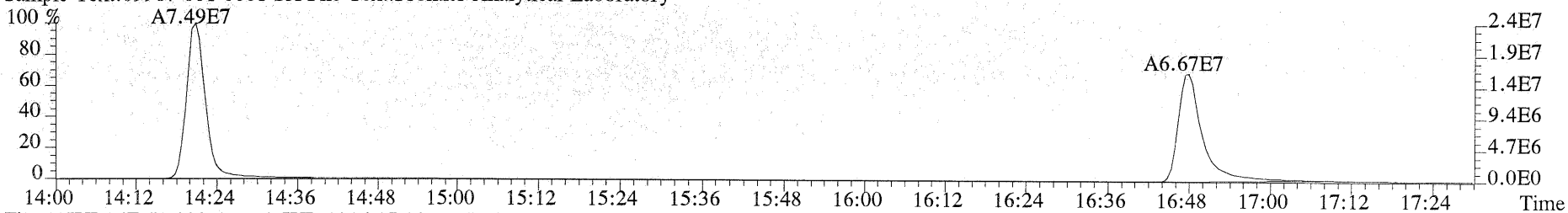
File:02JUL16Z #1-900 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



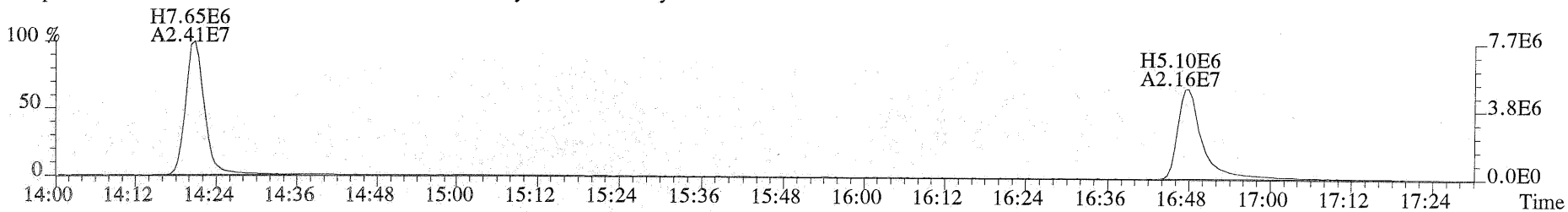
File:02JUL16Z #1-900 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



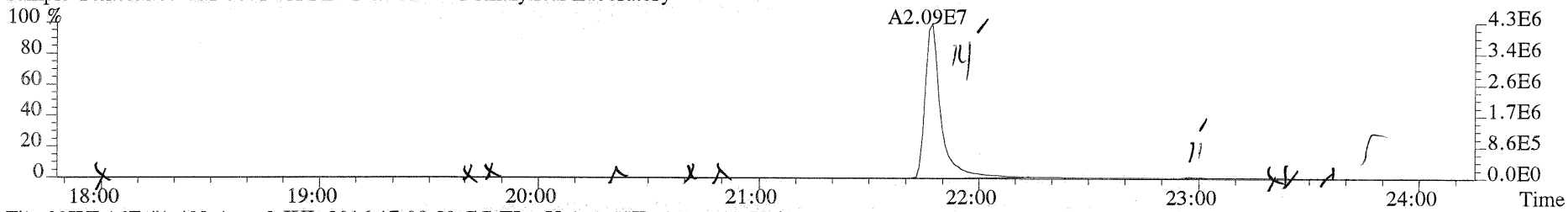
File:02JUL16Z #1-900 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



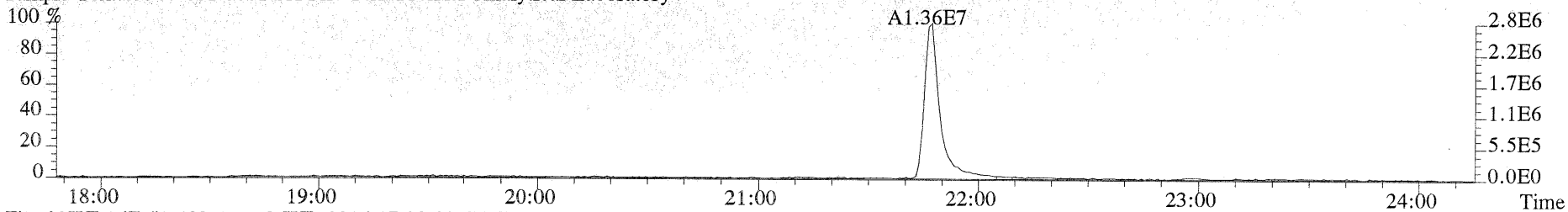
File:02JUL16Z #1-900 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



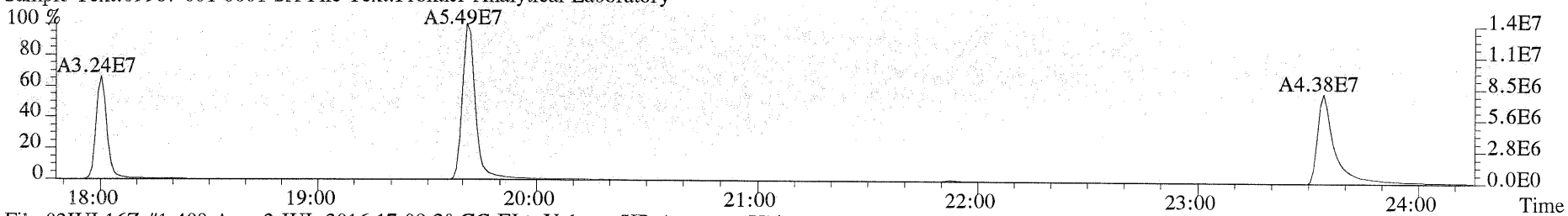
File:02JUL16Z #1-498 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



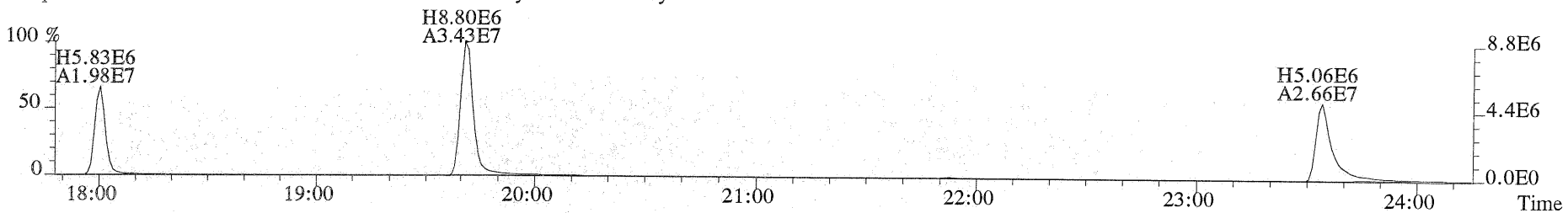
File:02JUL16Z #1-498 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



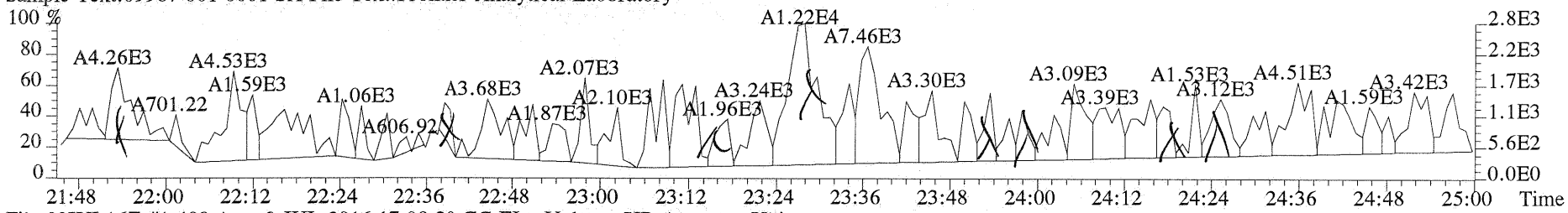
File:02JUL16Z #1-498 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



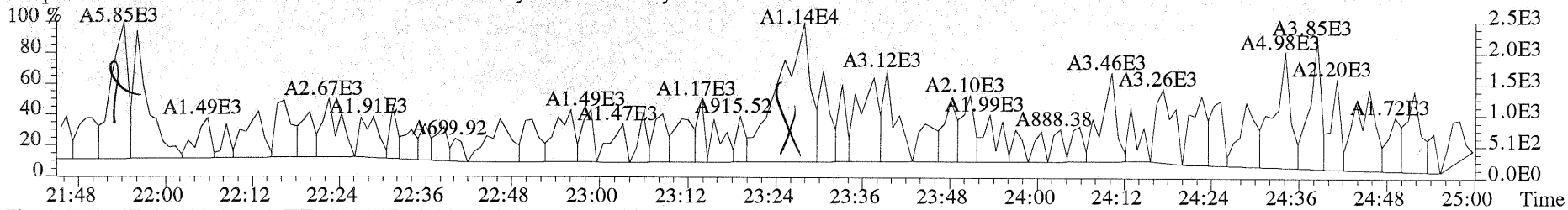
File:02JUL16Z #1-498 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



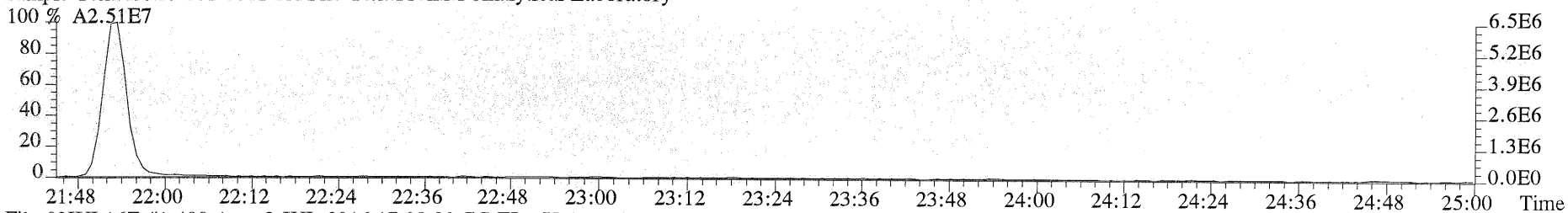
File:02JUL16Z #1-498 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



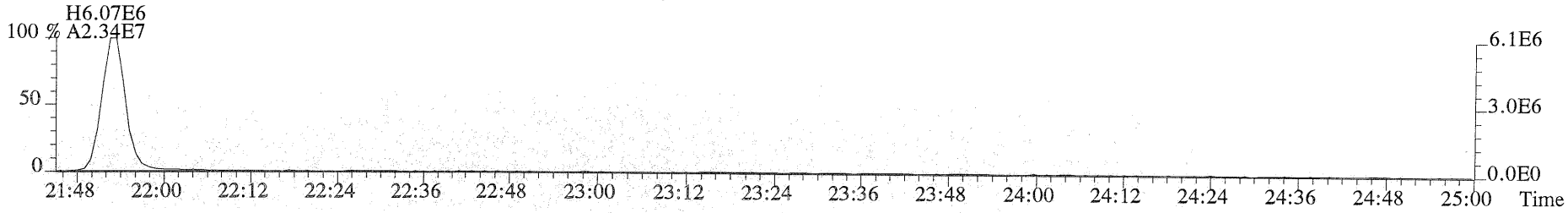
File:02JUL16Z #1-498 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



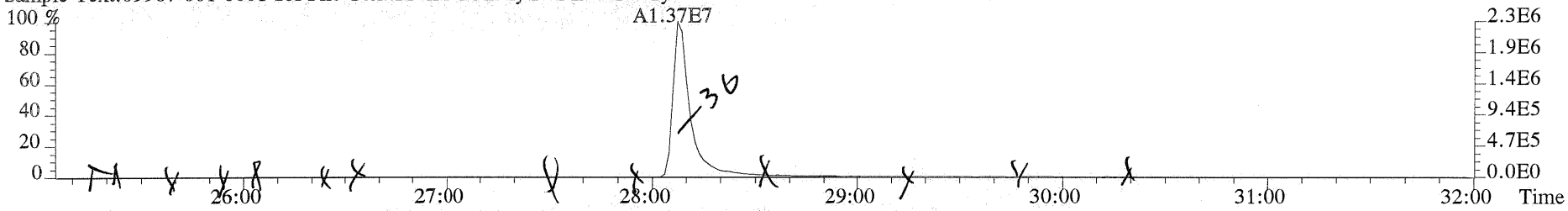
File:02JUL16Z #1-498 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



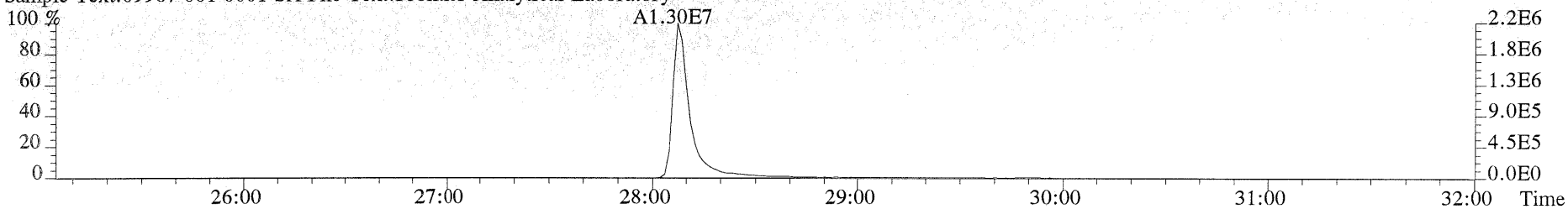
File:02JUL16Z #1-498 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



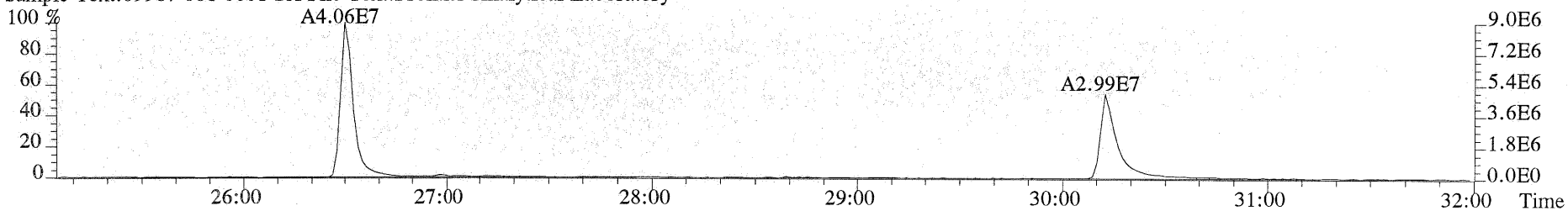
File:02JUL16Z #1-404 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



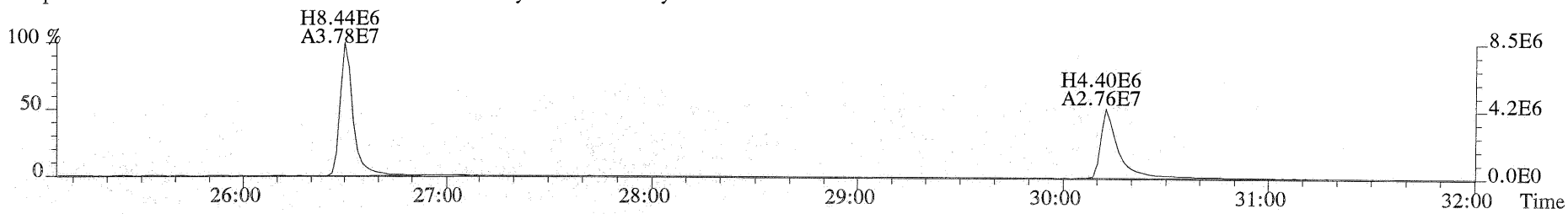
File:02JUL16Z #1-404 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



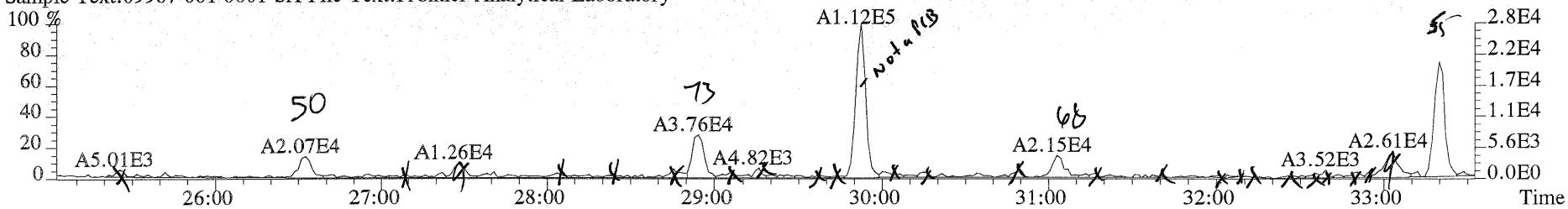
File:02JUL16Z #1-404 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



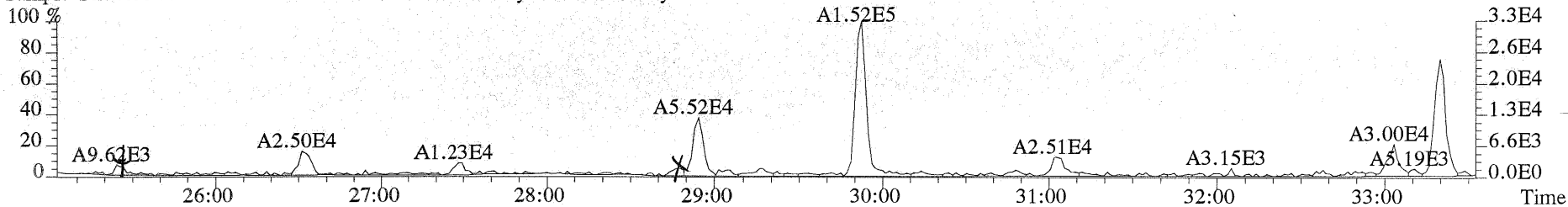
File:02JUL16Z #1-404 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



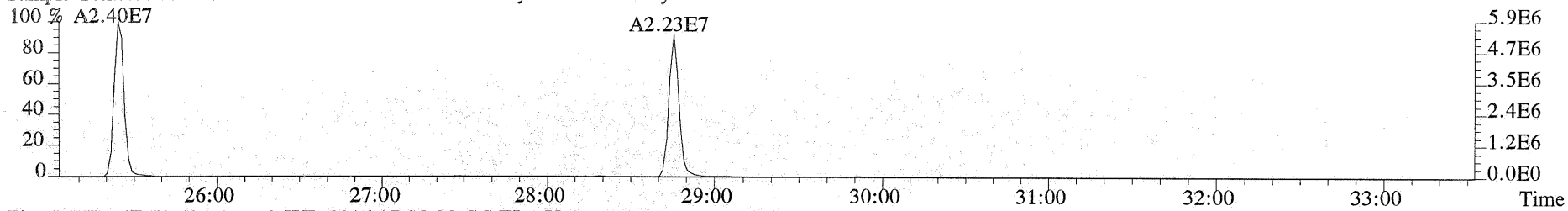
File:02JUL16Z #1-404 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-404 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-404 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



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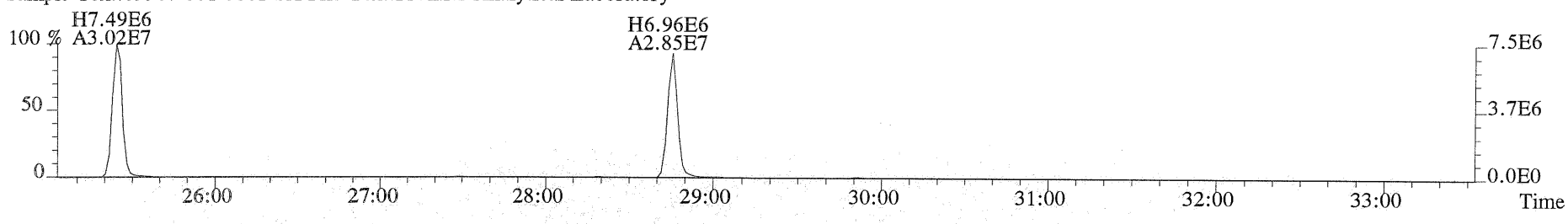
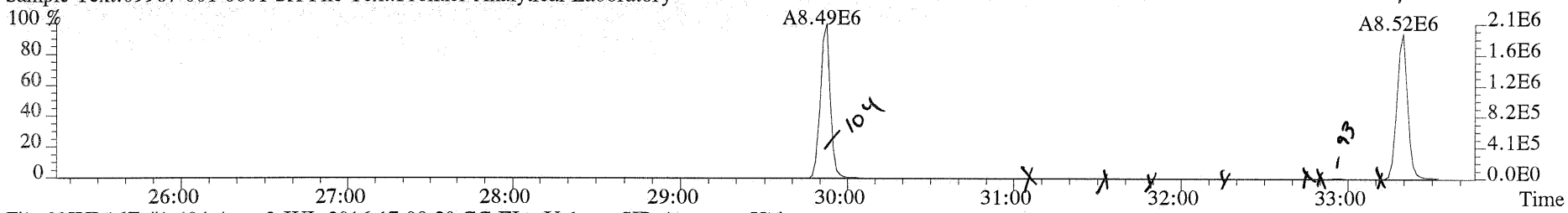
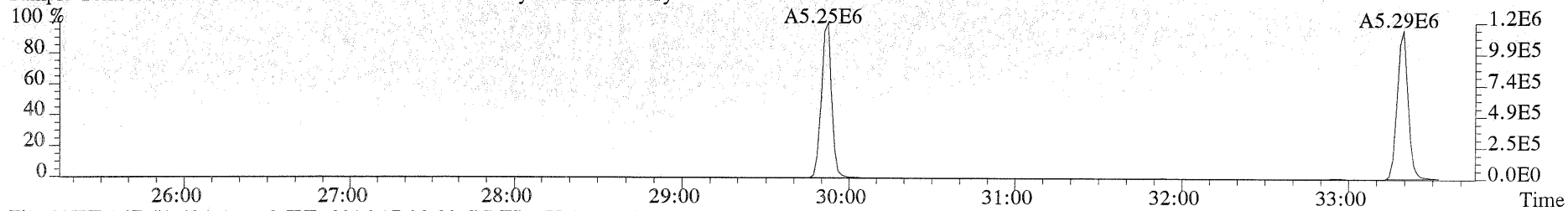
303.9597 S:7 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



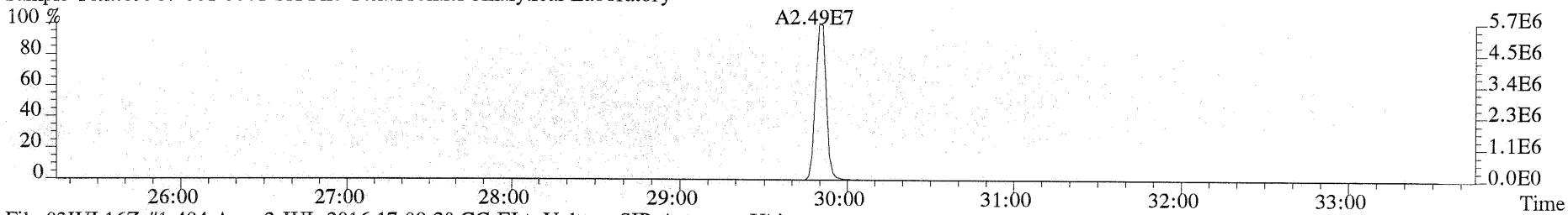
File:02JUL16Z #1-404 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



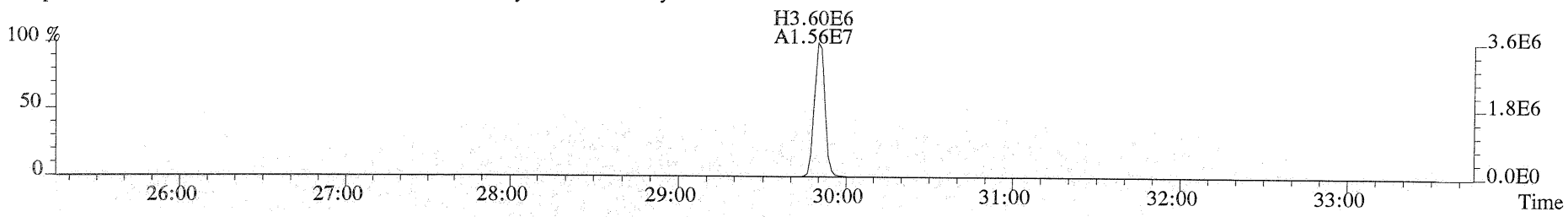
File:02JUL16Z #1-404 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



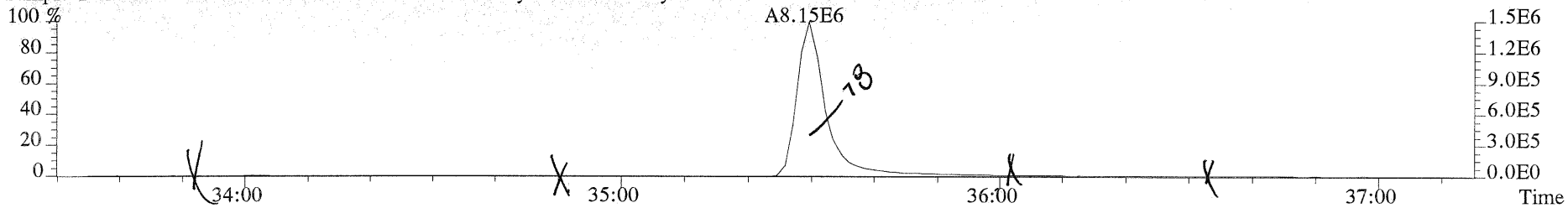
File:02JUL16Z #1-404 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



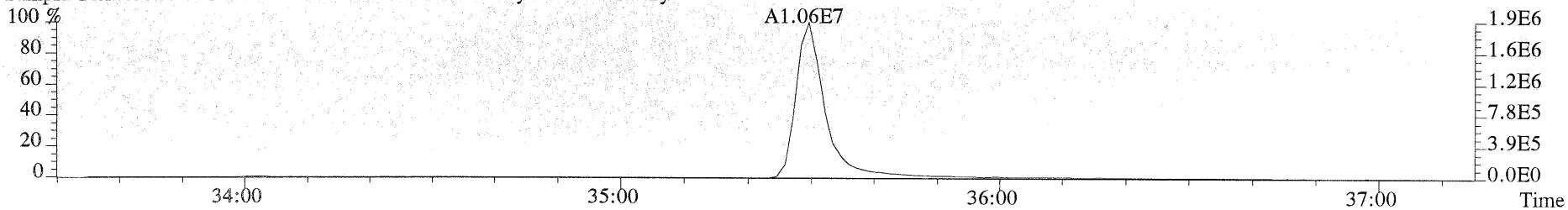
File:02JUL16Z #1-404 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



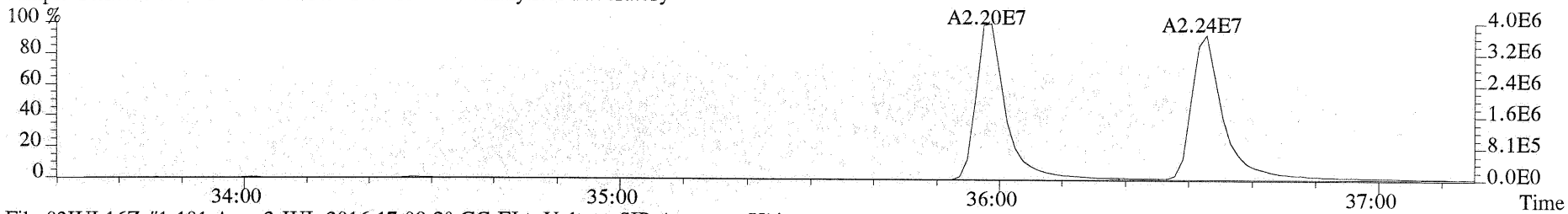
File:02JUL16Z #1-181 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



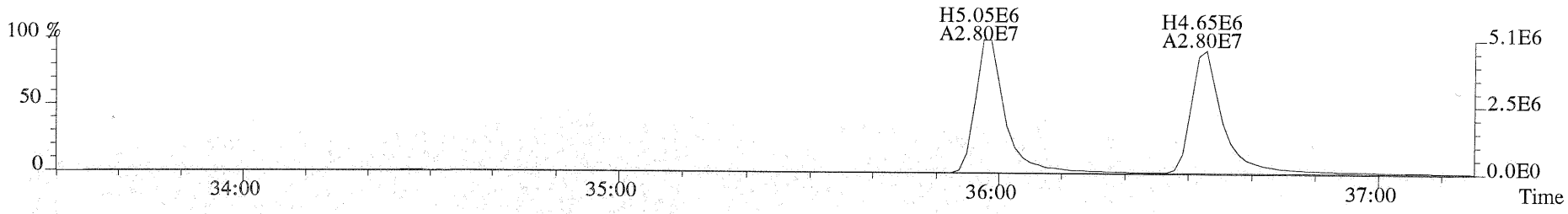
File:02JUL16Z #1-181 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



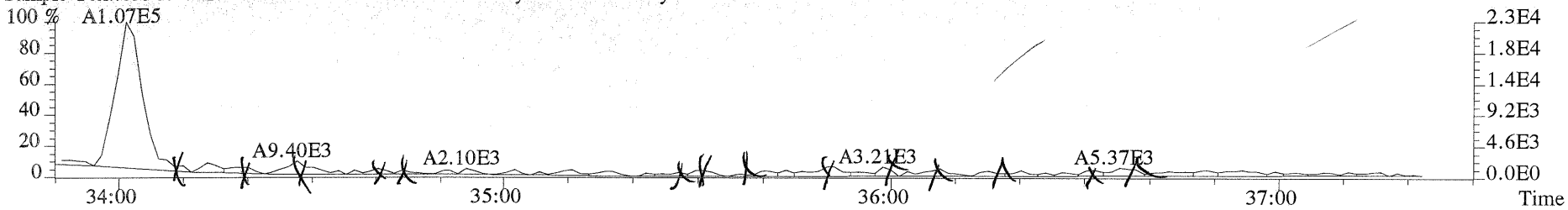
File:02JUL16Z #1-181 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



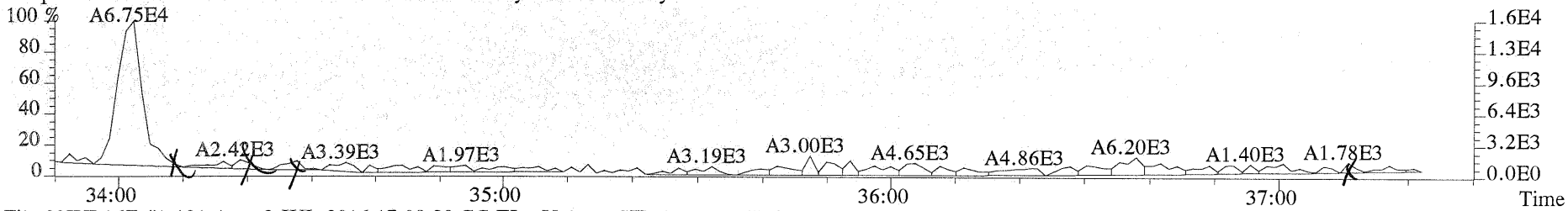
File:02JUL16Z #1-181 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



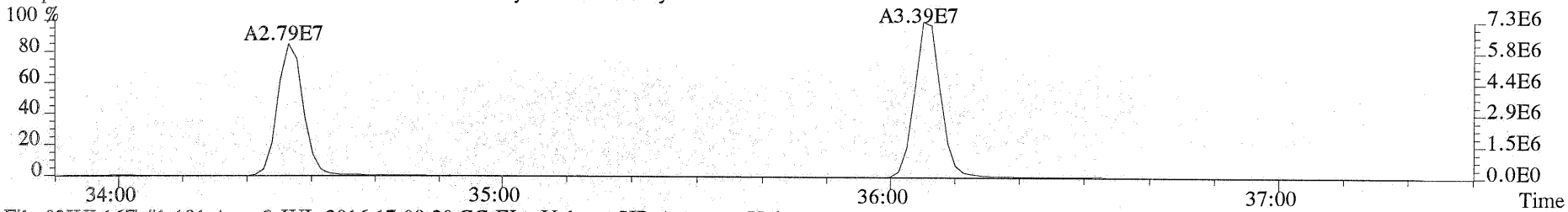
File:02JUL16Z #1-181 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



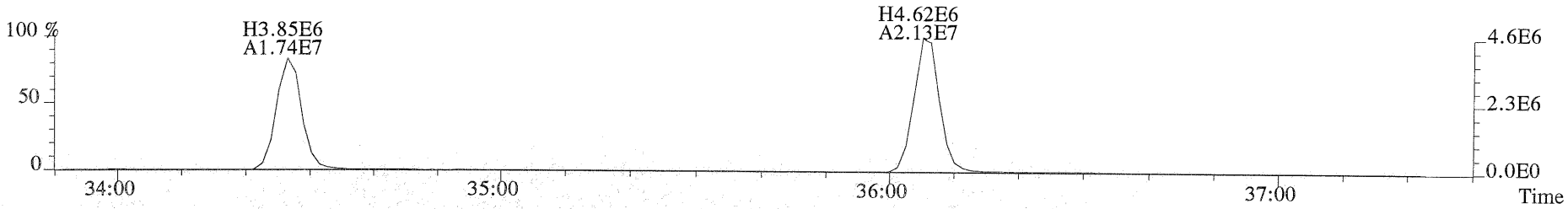
File:02JUL16Z #1-181 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



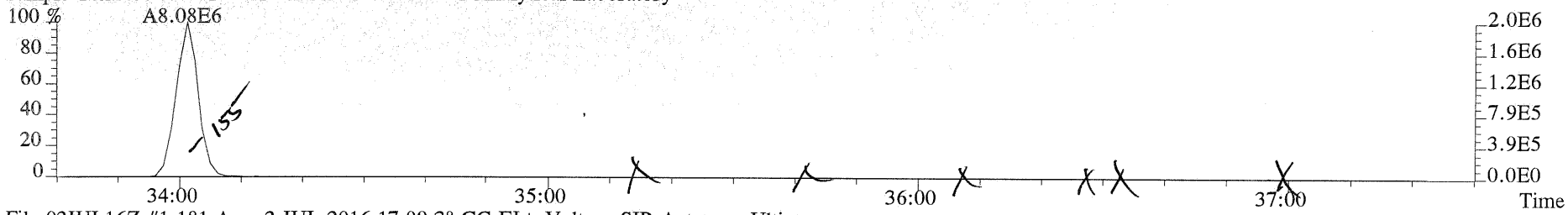
File:02JUL16Z #1-181 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



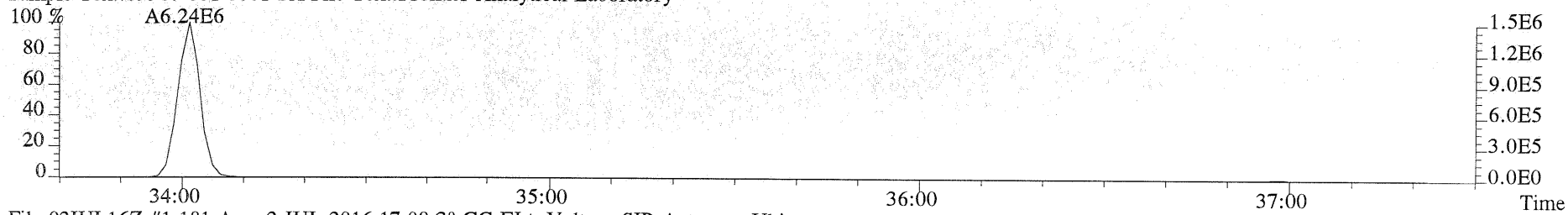
File:02JUL16Z #1-181 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



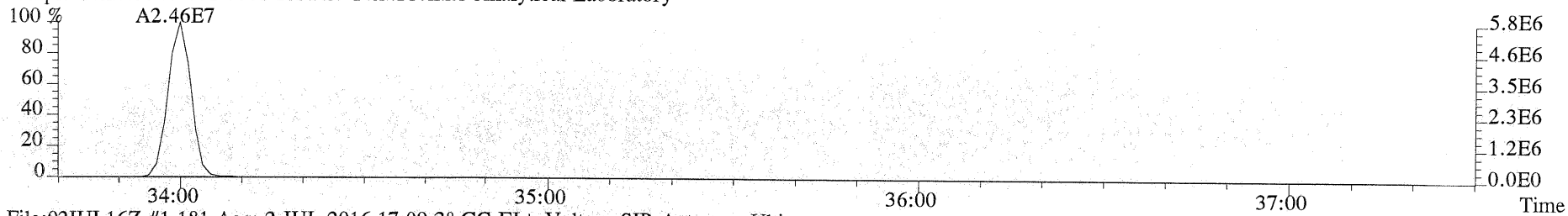
File:02JUL16Z #1-181 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



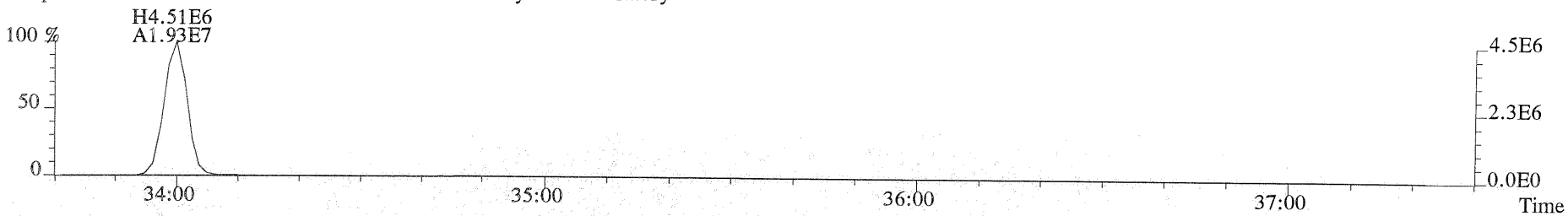
File:02JUL16Z #1-181 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



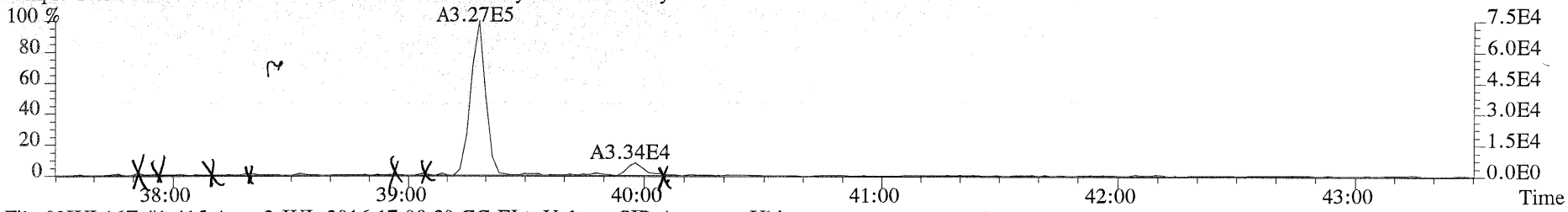
File:02JUL16Z #1-181 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



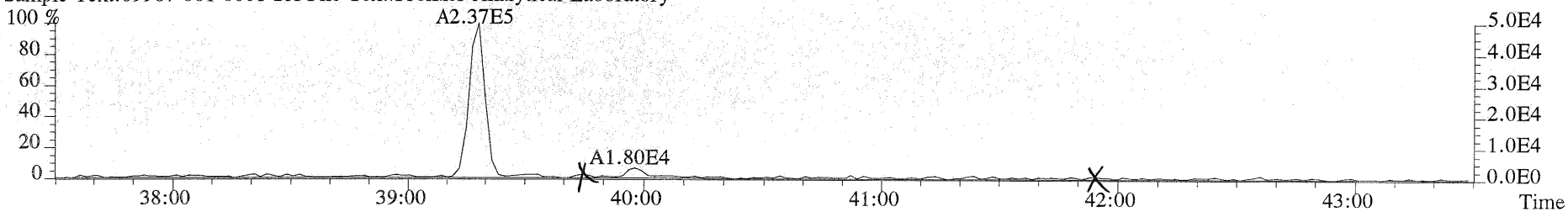
File:02JUL16Z #1-181 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 17:09:38 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:09967-001-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 17:09:38 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:09967-001-0001-SA File Text:Frontier Analytical Laboratory



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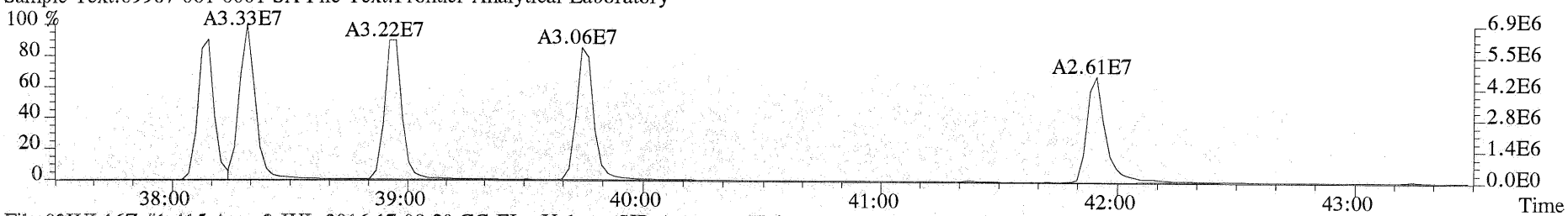
337.9207 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



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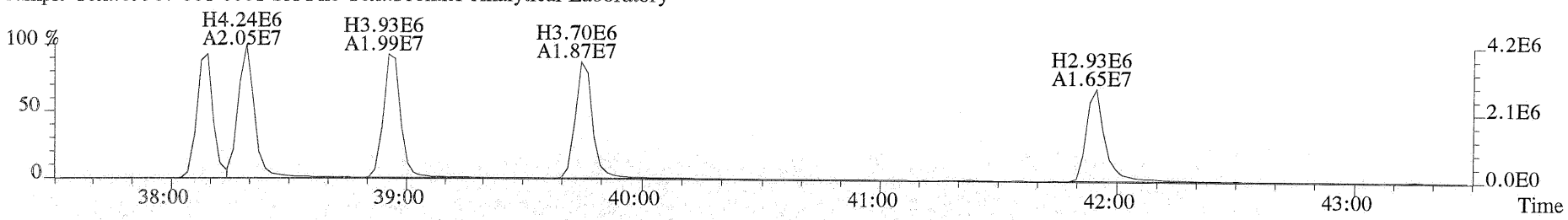
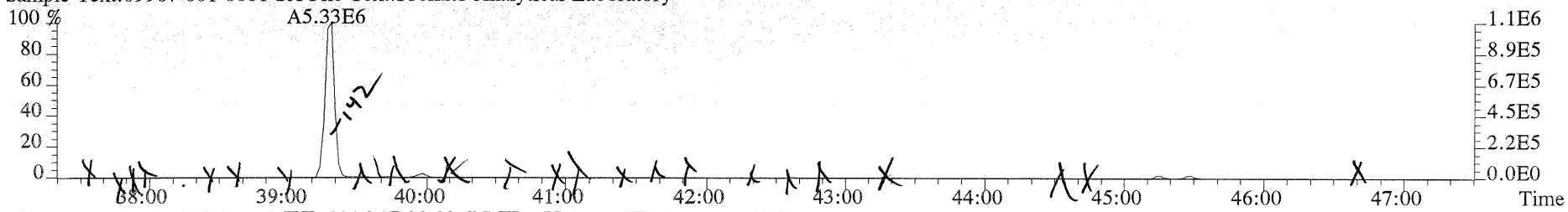
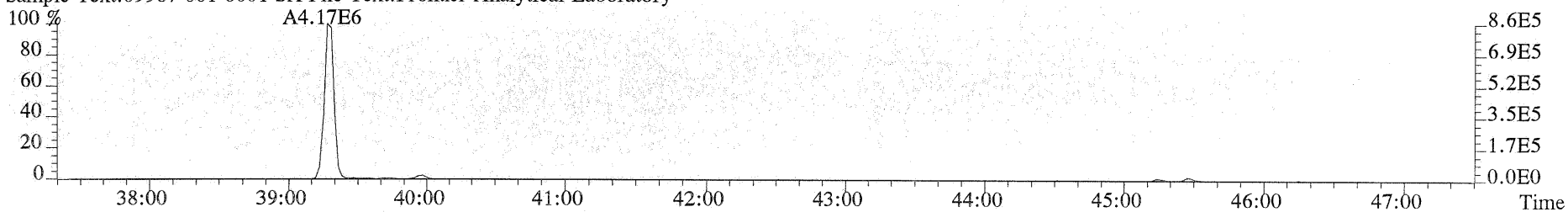
339.9178 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 17:09:38 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:09967-001-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 17:09:38 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:09967-001-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
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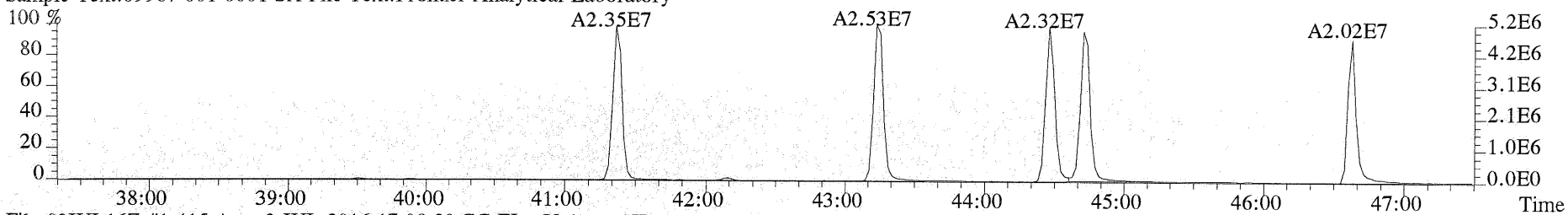
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
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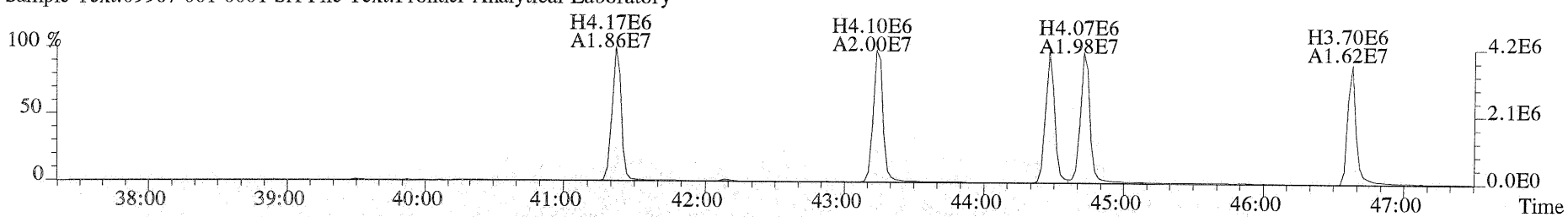
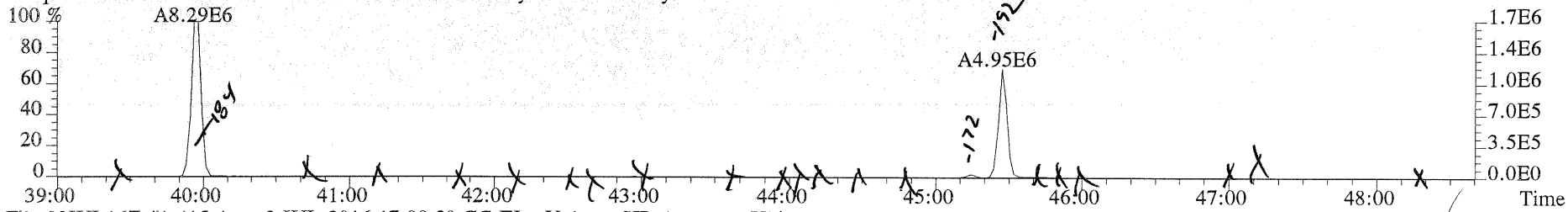
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 17:09:38 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:09967-001-0001-SA File Text:Frontier Analytical Laboratory



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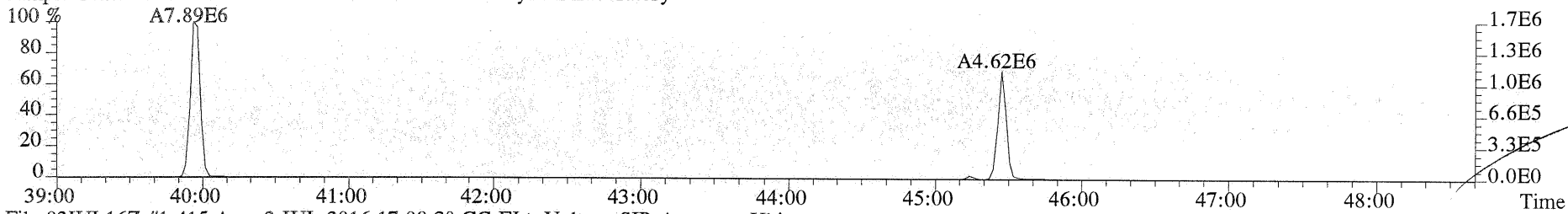
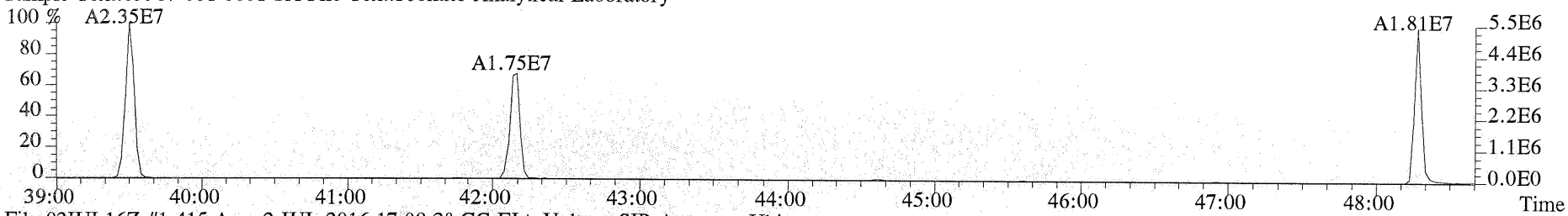
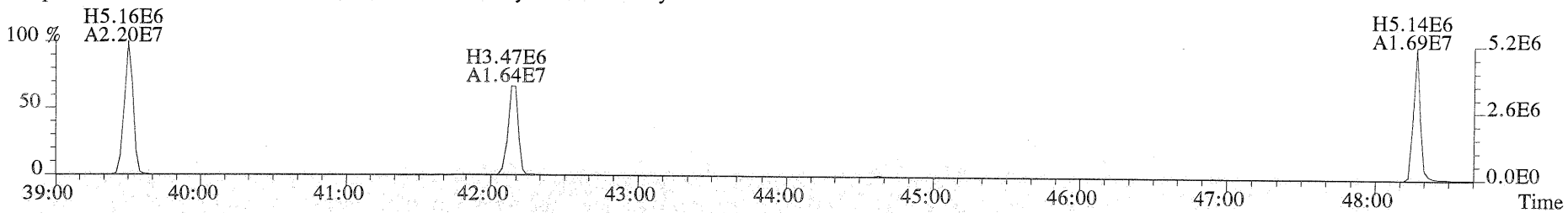
395.7995 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



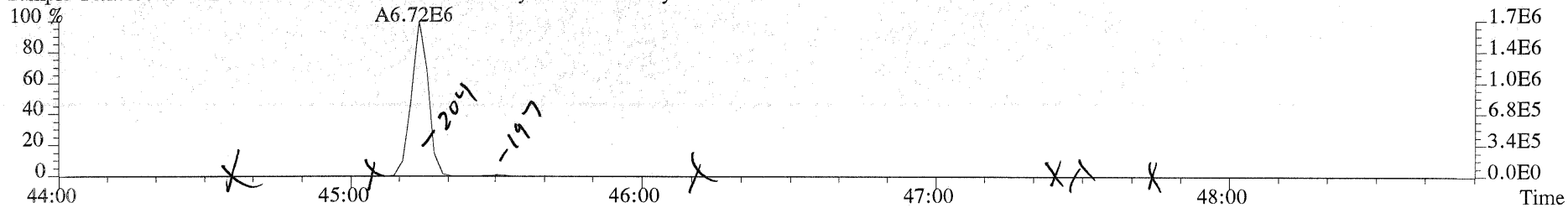
File:02JUL16Z #1-415 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



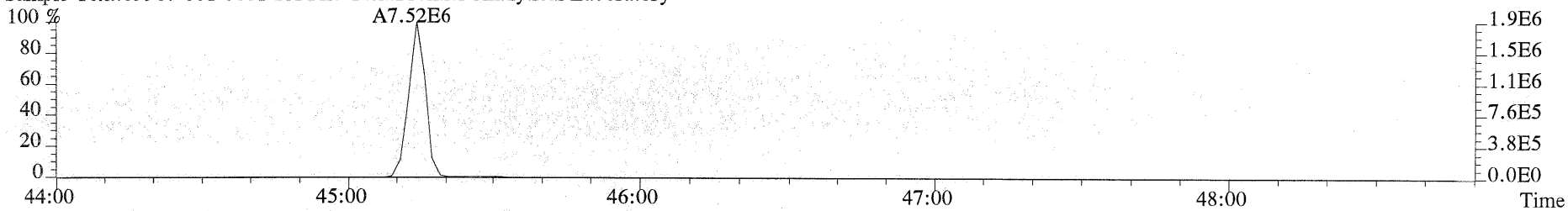
File:02JUL16Z #1-415 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



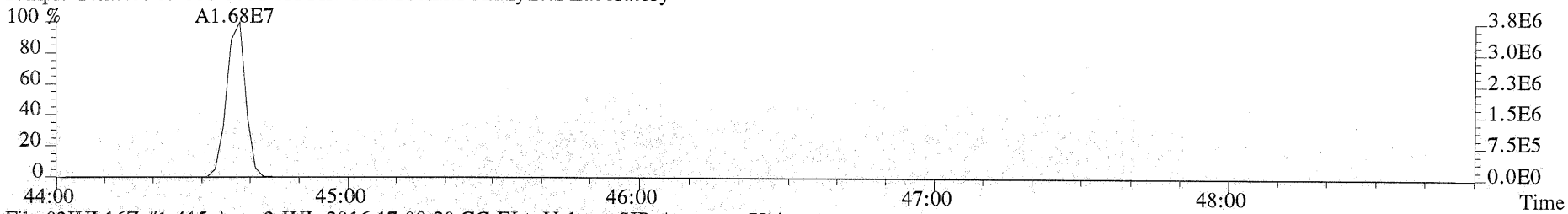
File:02JUL16Z #1-415 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



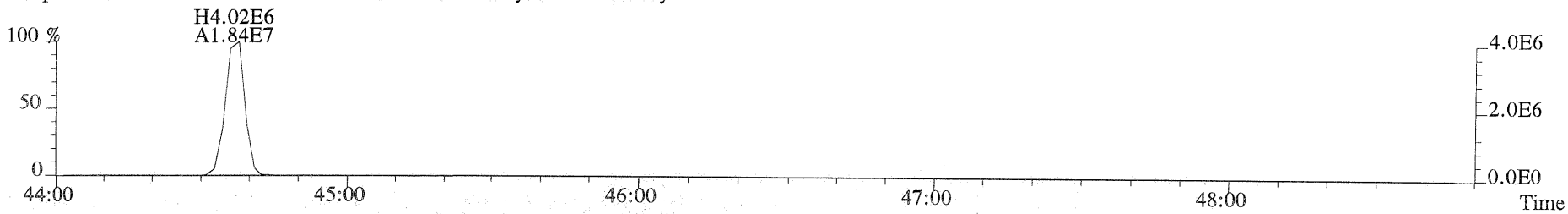
File:02JUL16Z #1-415 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



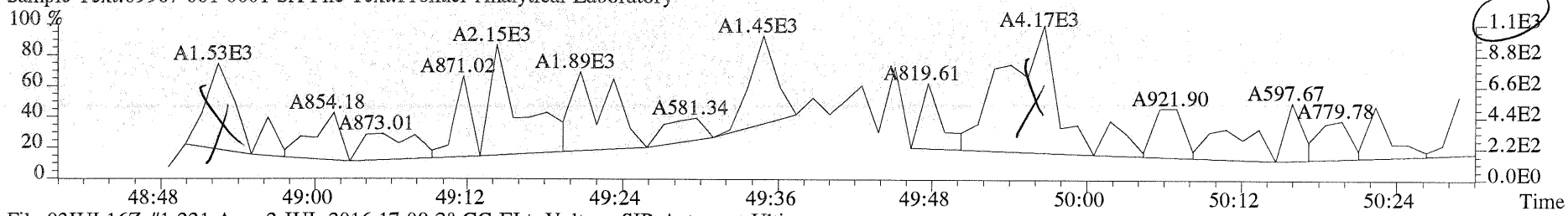
File:02JUL16Z #1-415 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



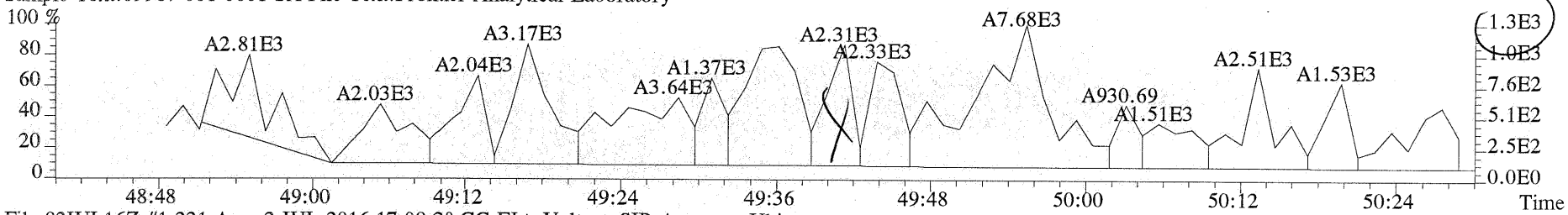
File:02JUL16Z #1-415 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



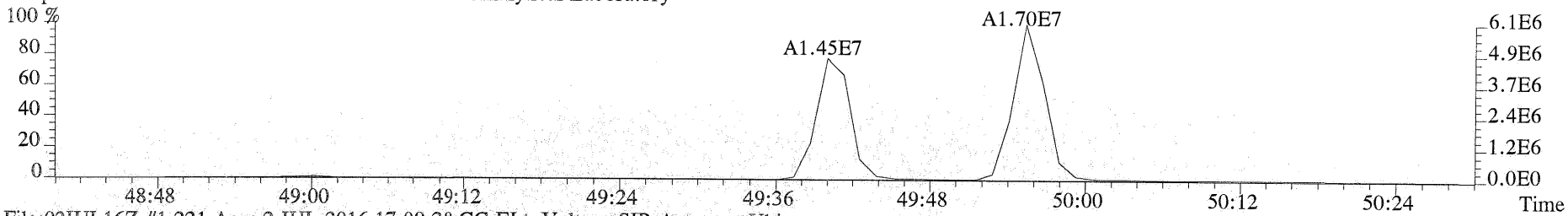
File:02JUL16Z #1-221 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



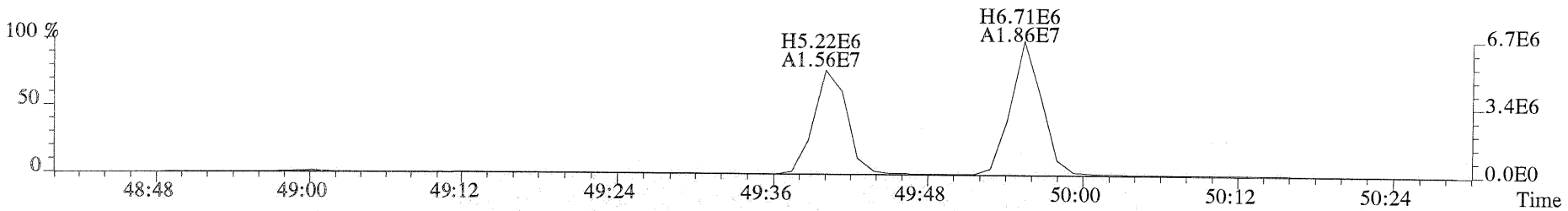
File:02JUL16Z #1-221 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



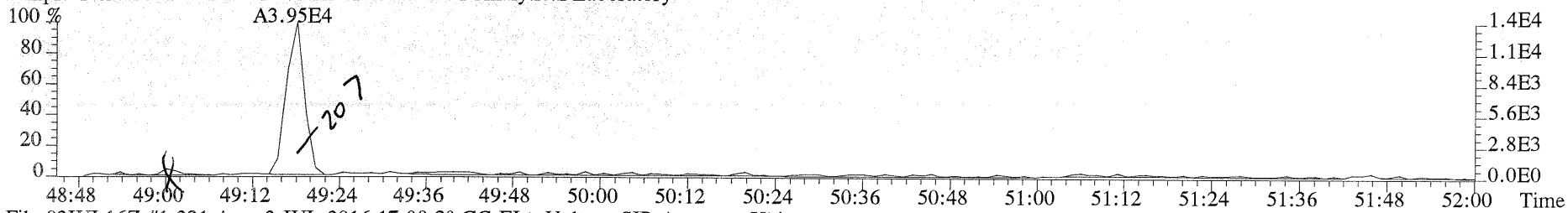
File:02JUL16Z #1-221 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



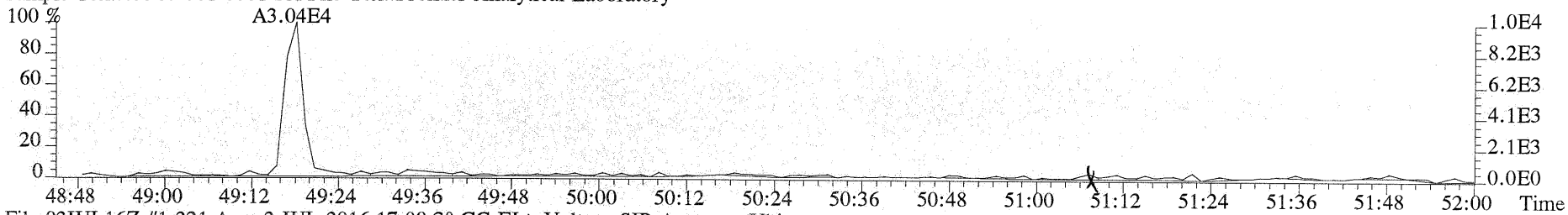
File:02JUL16Z #1-221 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



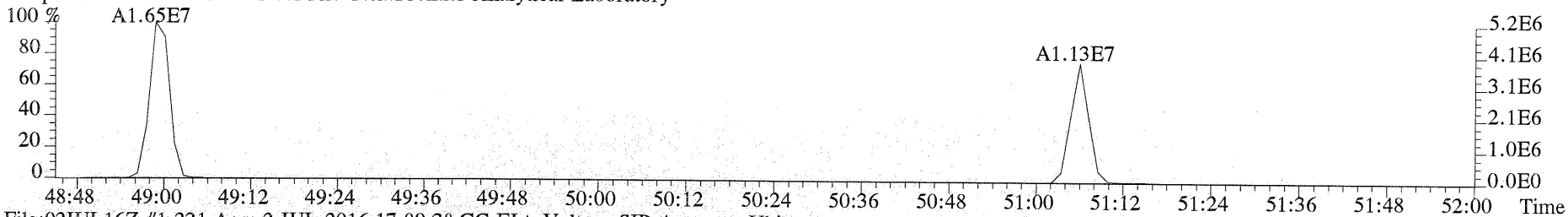
File:02JUL16Z #1-221 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



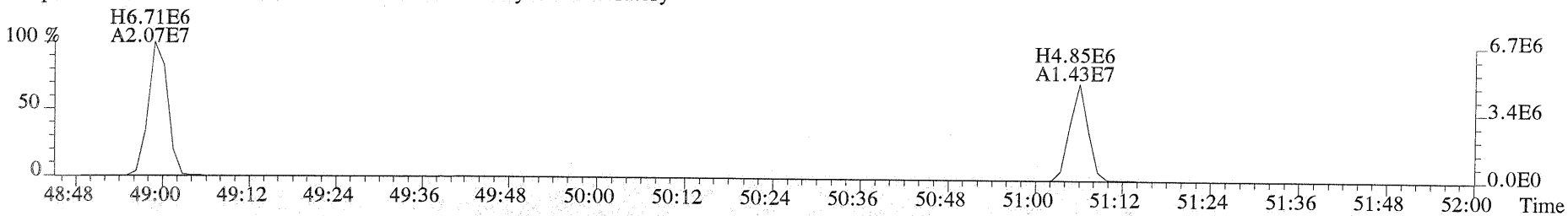
File:02JUL16Z #1-221 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



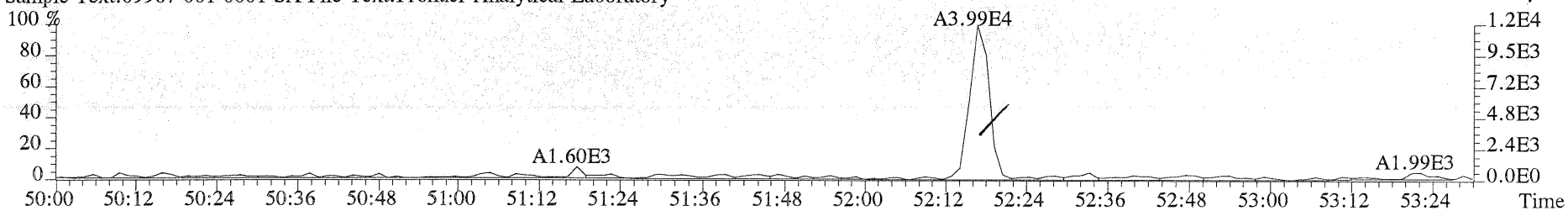
File:02JUL16Z #1-221 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



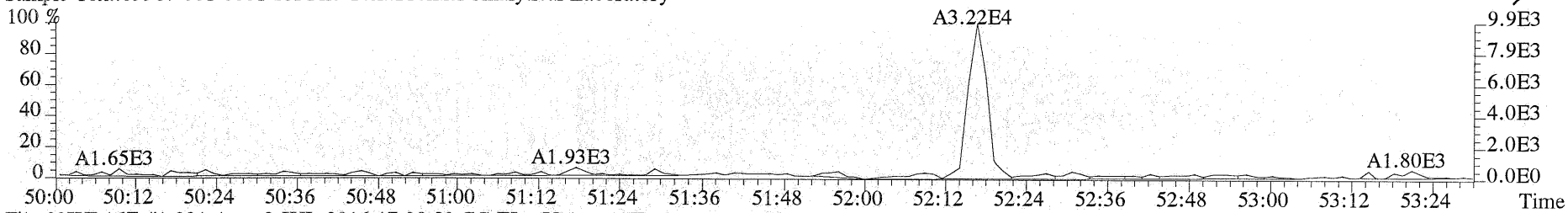
File:02JUL16Z #1-221 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



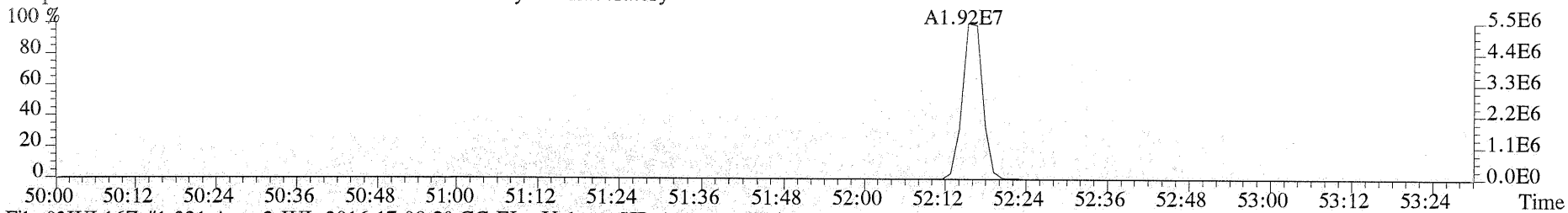
File:02JUL16Z #1-221 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



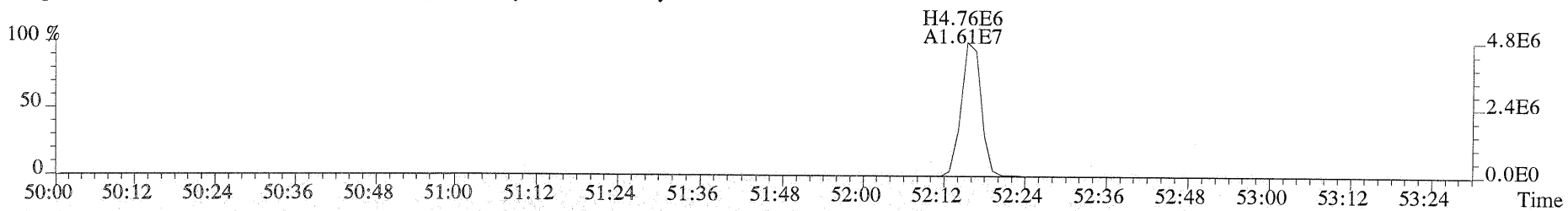
File:02JUL16Z #1-221 Acq: 2-JUL-2016 17:09:38 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-001-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 17:09:38 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:09967-001-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 17:09:38 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:09967-001-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 09967-002-0001-SA Filename: 02JUL16Z Sam:8 Acquired: 2-JUL-16 18:09:37 ICal: DAILY209FAL4-7-2-16
Client ID: LDW-CS-C2-S010-PW-TB ConCal: ST070216Z1 EndCal: ST070216Z2
Results: 9967 GC Column: DB1 Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	0.95	*		5570	3110	6.38	
13C-PCB-1	1.10e+08	3.13	y	14:21	1.24	9580					95.8
PCB-2	*	*	n	NotFnd	0.89	*		5570	3110	8.11	
PCB-3	*	*	n	NotFnd	0.99	*		5570	3110	8.62	
13C-PCB-3	9.86e+07	3.14	y	16:48	1.14	9320					93.2
PCB-4	*	*	n	NotFnd	1.18	*		4550	1960	8.39	
PCB-10	*	*	n	NotFnd	1.17	*		4550	1960	9.04	
13C-PCB-4	5.78e+07	1.65	y	17:60	0.59	10500					105
PCB-9	*	*	n	NotFnd	1.32	*		4550	1960	8.01	
PCB-7	*	*	n	NotFnd	1.35	*		4550	1960	7.82	
PCB-6	*	*	n	NotFnd	1.37	*		4550	1960	7.73	
PCB-8	*	*	n	NotFnd	1.30	*		4550	1960	8.11	
PCB-5	*	*	n	NotFnd	1.34	*		4550	1960	7.91	
PCB-14	3.39e+07	1.59	y	21:47	1.27	3840		-	-	*	
PCB-11	3.50e+05	1.72	y	22:58	1.21	41.8		-	-	*	
PCB-13	*	*	n	NotFnd	1.14	*		4550	1960	9.29	
PCB-12	*	*	n	NotFnd	1.22	*		4550	1960	8.65	
PCB-15	*	*	n	NotFnd	1.15	*		4550	1960	9.63	
13C-PCB-15	8.08e+07	1.62	y	23:34	0.91	9500					95.0
PCB-19	*	*	n	NotFnd	1.06	*		1330	1140	4.14	
PCB-30	*	*	n	NotFnd	1.57	*		1330	1140	2.79	
PCB-18	*	*	n	NotFnd	1.02	*		1330	1140	4.28	
PCB-17	*	*	n	NotFnd	1.12	*		1330	1140	3.88	
PCB-27	*	*	n	NotFnd	1.49	*		1330	1140	2.93	
PCB-24	*	*	n	NotFnd	1.48	*		1330	1140	2.96	
PCB-16	*	*	n	NotFnd	1.16	*		1330	1140	3.78	
PCB-32	*	*	n	NotFnd	1.40	*		1330	1140	3.13	
13C-PCB-19	5.19e+07	1.08	y	21:53	0.59	9510					95.1
13C-PCB-9	9.31e+07	1.62	y	19:41	-	45.1					
PCB-34	*	*	n	NotFnd	1.12	*		1800	1440	7.27	
PCB-23	*	*	n	NotFnd	1.13	*		1800	1440	7.22	
PCB-29	*	*	n	NotFnd	1.15	*		1800	1440	7.08	
PCB-26	*	*	n	NotFnd	1.16	*		1800	1440	7.02	
PCB-25	*	*	n	NotFnd	1.28	*		1800	1440	6.37	
PCB-31	*	*	n	NotFnd	1.09	*		1800	1440	7.49	
PCB-28	*	*	n	NotFnd	1.38	*		1800	1440	5.92	
PCB-20	*	*	n	NotFnd	1.19	*		1800	1440	6.86	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.19	*		1800	1440	6.86	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.19	*		1800	1440	6.86	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.09	*		1800	1440	7.51	
PCB-36	2.80e+07	1.06	y	28:08	1.12	3780		-	-	*	
PCB-39	*	*	n	NotFnd	1.08	*		1800	1440	7.55	
PCB-38	*	*	n	NotFnd	1.23	*		1800	1440	6.65	
PCB-35	*	*	n	NotFnd	1.09	*		1800	1440	7.49	
PCB-37	*	*	n	NotFnd	1.17	*		1800	1440	6.96	
13C-PCB-37	6.61e+07	1.07	y	30:13	1.21	10100					101

FAL ID: 09967-002-0001-SA Filename: 02JUL16Z Sam:8 Acquired: 2-JUL-16 ICal: DAILY209FAL4-7-2-16
Client ID: LDW-CS-C2-S010-PW-TB ConCal: ST070216Z1 EndCal: ST070216Z2
Results: 9967 GC Column: DB1 Amount: 1.000

PCB-54	*	*	n	NotFnd	1.09	*		1080	1200	3.48	
PCB-50	4.84e+04	0.87	y	26:32	0.86	9.28	J	-	-	*	
PCB-53	*	*	n	NotFnd	0.82	*		1080	1200	4.66	
PCB-51	*	*	n	NotFnd	0.80	*		1080	1200	4.74	
PCB-45	*	*	n	NotFnd	0.76	*		1080	1200	5.00	
PCB-46	*	*	n	NotFnd	0.70	*		1080	1200	5.46	
PCB-52	*	*	n	NotFnd	1.06	*		1080	1200	3.59	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	1.06	*		1080	1200	3.59	Co-elute PCB 52
PCB-73	9.90e+04	0.73	y	28:54	1.01	16.1	J	-	-	*	
PCB-43	*	*	n	NotFnd	0.85	*		1080	1200	4.45	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.85	*		1080	1200	4.45	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.98	*		1080	1200	3.89	
PCB-48	*	*	n	NotFnd	1.04	*		1080	1200	3.65	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	1.04	*		1080	1200	3.65	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.11	*		1080	1200	3.41	
PCB-62	*	*	n	NotFnd	0.98	*		1080	1200	3.88	
PCB-44	*	*	n	NotFnd	0.74	*		1080	1200	5.14	
PCB-42	*	*	n	NotFnd	0.98	*		1080	1200	3.88	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.98	*		1080	1200	3.88	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	1.07	*		1080	1200	3.54	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	1.07	*		1080	1200	3.54	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	1.07	*		1080	1200	3.54	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	1.07	*		1080	1200	3.54	Co-elute PCB 72/41/71
PCB-68	5.28e+04	0.71	y	31:03	1.13	7.67	J	-	-	*	
PCB-40	*	*	n	NotFnd	0.65	*		1080	1200	5.86	
PCB-57	*	*	n	NotFnd	1.12	*		1080	1200	3.40	
PCB-67	*	*	n	NotFnd	1.07	*		1080	1200	3.55	
PCB-58	*	*	n	NotFnd	1.07	*		1080	1200	3.55	
PCB-63	*	*	n	NotFnd	1.11	*		1080	1200	3.43	
PCB-74	*	*	n	NotFnd	1.14	*		1080	1200	3.34	
PCB-61	*	*	n	NotFnd	1.10	*		1080	1200	3.45	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	1.10	*		1080	1200	3.45	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.14	*		1080	1200	3.33	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.14	*		1080	1200	3.33	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.23	*		1080	1200	3.08	
PCB-55	2.31e+05	0.76	y	33:19	1.08	35.0		-	-	*	
13C-PCB-54	6.09e+07	0.80	y	25:25	1.07	10500					105
PCB-104	1.45e+07	1.62	y	29:52	1.23	2600		-	-	*	
PCB-96	*	*	n	NotFnd	1.15	*		564	976	3.06	
PCB-103	*	*	n	NotFnd	0.96	*		564	976	3.64	
PCB-100	*	*	n	NotFnd	0.91	*		564	976	3.86	
PCB-94	*	*	n	NotFnd	0.76	*		564	976	4.59	
PCB-98	*	*	n	NotFnd	0.99	*		564	976	3.54	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.99	*		564	976	3.54	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.82	*		564	976	4.30	
PCB-93	5.37e+04	1.66	y	32:56	0.76	15.5	J	-	-	*	
PCB-88	*	*	n	NotFnd	0.87	*		564	976	4.02	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.87	*		564	976	4.02	Co-elute PCB 88
PCB-121	1.47e+07	1.60	y	33:19	1.05	3080		-	-	*	
13C-PCB-104	4.55e+07	1.62	y	29:51	0.81	10400					104
13C-PCB-28	8.73e+07	1.08	y	26:31	1.42	11300					113
13C-PCB-52	5.42e+07	0.79	y	28:45	-	43.5					

PCB-56	*	*	n	NotFnd	1.17	*	1640	1840	7.51	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.17	*	1640	1840	7.51	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.20	*	1640	1840	7.34	
PCB-78	1.97e+07	0.79	y	35:29	1.21	2920	-	-	*	
PCB-81	*	*	n	NotFnd	1.27	*	1640	1840	6.72	
13C-PCB-81	5.59e+07	0.81	y	35:58	1.12	10300				103
PCB-77	*	*	n	NotFnd	1.14	*	1640	1840	7.93	
13C-PCB-77	5.59e+07	0.82	y	36:32	1.10	10500				105
PCB-155	1.55e+07	1.28	y	34:01	1.13	2820	-	-	*	
PCB-150	*	*	n	NotFnd	1.02	*	860	808	3.65	
PCB-152	*	*	n	NotFnd	1.05	*	860	808	3.52	
PCB-145	*	*	n	NotFnd	0.99	*	860	808	3.75	
PCB-136	*	*	n	NotFnd	1.01	*	860	808	3.68	
PCB-148	*	*	n	NotFnd	0.80	*	860	808	4.66	
PCB-154	*	*	n	NotFnd	0.89	*	860	808	4.18	
13C-PCB-155	4.85e+07	1.27	y	33:59	1.01	9950				99.5
13C-PCB-111	5.84e+07	1.60	y	36:06	1.13	10800				108
13C-PCB-101	4.81e+07	1.61	y	34:27	-	44.7				
PCB-84	*	*	n	NotFnd	0.80	*	1130	1090	5.84	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.80	*	1130	1090	5.84	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.78	*	1130	1090	5.92	
PCB-90	*	*	n	NotFnd	0.87	*	1130	1090	5.33	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.87	*	1130	1090	5.33	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.07	*	1130	1090	4.34	
PCB-99	*	*	n	NotFnd	0.90	*	1130	1090	5.17	
PCB-119	*	*	n	NotFnd	1.16	*	1130	1090	4.02	
PCB-83	*	*	n	NotFnd	0.93	*	1130	1090	4.97	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.93	*	1130	1090	4.97	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.05	*	1130	1090	4.44	
PCB-97	*	*	n	NotFnd	0.90	*	1130	1090	5.17	
PCB-86	*	*	n	NotFnd	0.71	*	1130	1090	6.58	
PCB-125	*	*	n	NotFnd	1.06	*	1130	1090	4.40	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	1.06	*	1130	1090	4.40	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	1.06	*	1130	1090	4.40	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.20	*	1130	1090	3.87	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.20	*	1130	1090	3.87	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.99	*	1130	1090	4.69	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.99	*	1130	1090	4.69	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.19	*	1130	1090	3.90	
PCB-110	*	*	n	NotFnd	1.18	*	1130	1090	3.94	
PCB-82	*	*	n	NotFnd	0.69	*	1130	1090	6.77	
PCB-124	*	*	n	NotFnd	1.12	*	780	872	3.08	
PCB-108	*	*	n	NotFnd	1.01	*	780	872	3.41	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.01	*	780	872	3.41	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.15	*	780	872	2.86	
13C-PCB-123	5.48e+07	1.58	y	38:09	1.10	11100				111
PCB-118	*	*	n	NotFnd	1.02	*	780	872	3.27	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.02	*	780	872	3.27	Co-elute PCB 118
13C-PCB-118	6.15e+07	1.59	y	38:19	1.16	11800				118
PCB-114	*	*	n	NotFnd	1.06	*	780	872	3.25	
13C-PCB-114	5.85e+07	1.61	y	38:56	1.13	11500				115
PCB-122	*	*	n	NotFnd	1.18	*	780	872	2.93	
PCB-105	*	*	n	NotFnd	1.13	*	780	872	3.34	
13C-PCB-105	5.59e+07	1.64	y	39:46	1.13	11000				110

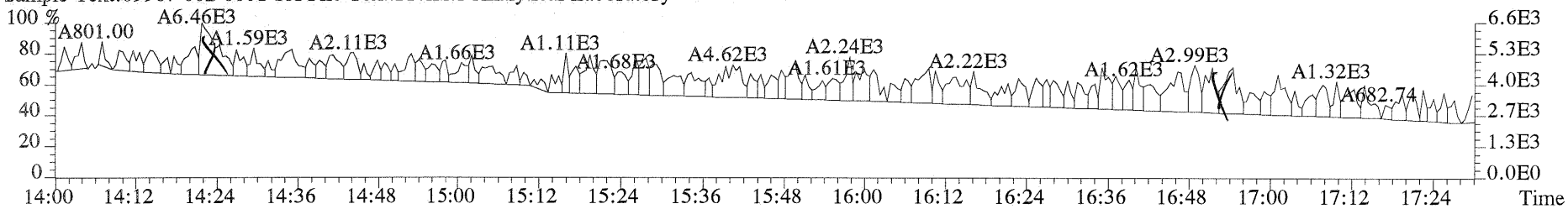
PCB-127	*	*	n	NotFnd	1.04	*	780	872	3.33	
PCB-126	*	*	n	NotFnd	1.16	*	780	872	3.86	
13C-PCB-126	4.84e+07	1.66	y	41:54	0.98	11000				110
PCB-151	*	*	n	NotFnd	0.88	*	688	684	3.83	
PCB-135	*	*	n	NotFnd	0.86	*	688	684	3.95	
PCB-144	*	*	n	NotFnd	0.94	*	688	684	3.60	
PCB-147	*	*	n	NotFnd	0.97	*	688	684	3.47	
PCB-139	*	*	n	NotFnd	0.95	*	688	684	3.55	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	0.95	*	688	684	3.55	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.93	*	688	684	3.62	
PCB-143	*	*	n	NotFnd	0.89	*	688	684	3.78	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.89	*	688	684	3.78	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.90	*	688	684	3.76	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.90	*	688	684	3.76	Co-elute PCB 131
PCB-142	1.04e+07	1.25	y	39:18	0.83	2660	-	-	*	
PCB-165	*	*	n	NotFnd	1.08	*	688	684	3.12	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.08	*	688	684	3.12	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	1.01	*	688	684	3.35	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	1.01	*	688	684	3.35	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	1.10	*	688	684	3.08	
PCB-168	*	*	n	NotFnd	1.15	*	688	684	2.93	
PCB-141	*	*	n	NotFnd	0.91	*	688	684	3.70	
PCB-137	*	*	n	NotFnd	0.85	*	688	684	3.98	
PCB-130	*	*	n	NotFnd	0.83	*	688	684	4.09	
PCB-138	*	*	n	NotFnd	1.17	*	688	684	2.88	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.17	*	688	684	2.88	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.17	*	688	684	2.88	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.17	*	688	684	2.88	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.17	*	688	684	2.88	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.77	*	688	684	4.41	
PCB-166	*	*	n	NotFnd	1.13	*	688	684	2.99	
PCB-159	*	*	n	NotFnd	1.21	*	688	684	2.78	
PCB-128	*	*	n	NotFnd	0.95	*	688	684	3.57	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	0.95	*	688	684	3.57	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	1.04	*	688	684	2.98	
13C-PCB-167	5.15e+07	1.26	y	43:15	1.04	11000				110
PCB-156	*	*	n	NotFnd	1.09	*	688	684	3.29	
13C-PCB-156	4.73e+07	1.28	y	44:29	1.01	10400				104
PCB-157	*	*	n	NotFnd	1.00	*	688	684	3.33	
13C-PCB-157	5.01e+07	1.27	y	44:44	1.03	10800				108
PCB-169	*	*	n	NotFnd	1.02	*	688	684	3.52	
13C-PCB-169	3.98e+07	1.25	y	46:37	0.89	9920				99.2

FAL ID: 09967-002-0001-SA Filename: 02JUL16Z Sam:8 Acquired: 2-JUL-16 18:09:37 ICal: DAILY209FAL4-7-2-16
Client ID: LDW-CS-C2-S010-PW-TB ConCal: ST070216Z1 EndCal: ST070216Z2
Results: 9967 GC Column: DB1 Amount: 1.000

PCB-188	*	*	n	NotFnd	1.16	*		936	899	3.73	
13C-PCB-188	4.95e+07	1.06	y	39:29	1.12	9800					98.0
PCB-184	1.78e+07	1.06	y	39:57	1.27	3160		-	-	*	
PCB-179	*	*	n	NotFnd	1.27	*		936	899	3.40	
PCB-176	*	*	n	NotFnd	1.24	*		936	899	3.47	
PCB-186	*	*	n	NotFnd	1.19	*		936	899	3.60	
PCB-178	*	*	n	NotFnd	0.90	*		936	899	4.77	
PCB-175	*	*	n	NotFnd	0.93	*		936	899	4.64	
PCB-187	*	*	n	NotFnd	0.98	*		936	899	4.41	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.98	*		936	899	4.41	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.99	*		936	899	4.34	
PCB-185	*	*	n	NotFnd	0.87	*		936	899	4.94	
PCB-174	*	*	n	NotFnd	0.95	*		936	899	4.54	
PCB-181	*	*	n	NotFnd	0.81	*		936	899	5.30	
PCB-177	*	*	n	NotFnd	0.84	*		936	899	5.10	
PCB-171	*	*	n	NotFnd	0.89	*		936	899	4.82	
PCB-173	*	*	n	NotFnd	0.79	*		936	899	5.46	
PCB-172	3.02e+05	1.12	y	45:15	0.83	81.7		-	-	*	
PCB-192	1.06e+07	1.06	y	45:28	1.06	2260		-	-	*	
PCB-180	*	*	n	NotFnd	0.98	*		936	899	4.41	
PCB-193	*	*	n	NotFnd	1.15	*		936	899	3.74	
PCB-191	*	*	n	NotFnd	1.12	*		936	899	3.85	
PCB-170	*	*	n	NotFnd	0.77	*		936	899	5.58	
PCB-190	*	*	n	NotFnd	1.06	*		936	899	4.07	
PCB-189	*	*	n	NotFnd	1.15	*		936	899	3.70	
13C-PCB-189	3.91e+07	1.05	y	48:16	0.86	10000					100
PCB-202	*	*	n	NotFnd	0.98	*		432	592	2.84	
PCB-201	*	*	n	NotFnd	1.03	*		432	592	2.71	
PCB-204	1.53e+07	0.90	y	45:15	1.00	3960		-	-	*	
PCB-197	1.55e+05	0.91	y	45:30	1.00	40.3		-	-	*	
PCB-200	*	*	n	NotFnd	1.00	*		432	592	2.79	
PCB-198	*	*	n	NotFnd	0.71	*		432	592	3.91	
PCB-199	*	*	n	NotFnd	0.67	*		432	592	4.16	
PCB-203	*	*	n	NotFnd	0.74	*		432	592	3.75	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.74	*		432	592	3.75	Co-elute PCB 203
13C-PCB-202	3.85e+07	0.91	y	44:37	0.89	9640					96.4
13C-PCB-178	3.72e+07	1.08	y	42:09	0.78	10600					106
13C-PCB-138	4.50e+07	1.26	y	41:23	-	45.6					
PCB-195	*	*	n	NotFnd	0.78	*		1400	1520	7.22	
PCB-194	*	*	n	NotFnd	0.87	*		1400	1520	6.51	
PCB-205	*	*	n	NotFnd	1.07	*		1400	1520	5.29	
13C-PCB-205	3.98e+07	0.91	y	49:56	1.20	10200					102
PCB-208	*	*	n	NotFnd	1.00	*		808	992	3.09	
13C-PCB-208	4.15e+07	0.80	y	48:60	1.39	9160					91.6
PCB-207	7.90e+04	1.35	y	49:18	1.09	20.8		-	-	*	
PCB-206	*	*	n	NotFnd	1.04	*		808	992	4.95	
13C-PCB-206	2.85e+07	0.80	y	51:05	0.97	9010					90.1
PCB-209	7.68e+04	1.05	y	52:16	1.06	18.2	J	-	-	*	
13C-PCB-209	4.00e+07	1.19	y	52:16	1.42	8620					86.2
13C-PCB-194	3.26e+07	0.92	y	49:41	-	50.0					

Analyst: _____ Date: 7/5/16

File:02JUL16Z #1-901 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-901 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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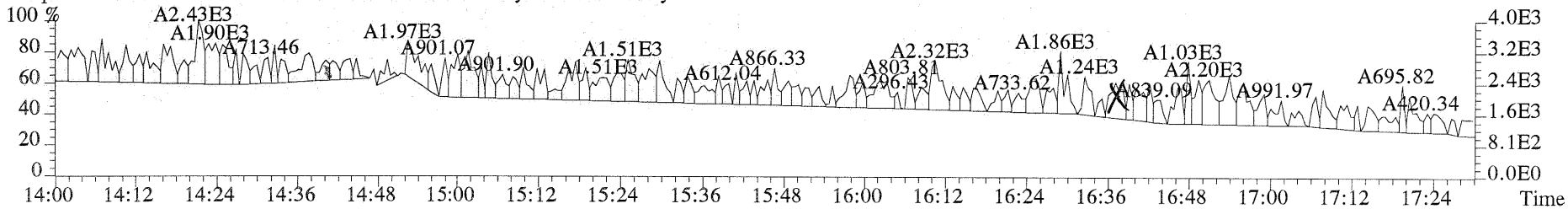

File:02JUL16Z #1-901 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
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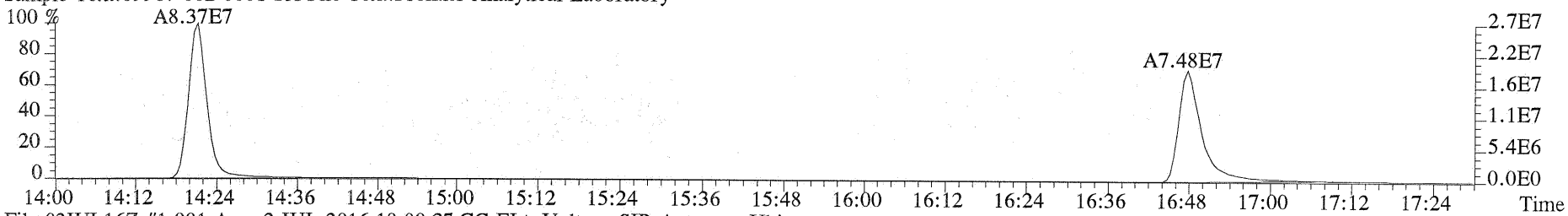
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-901 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
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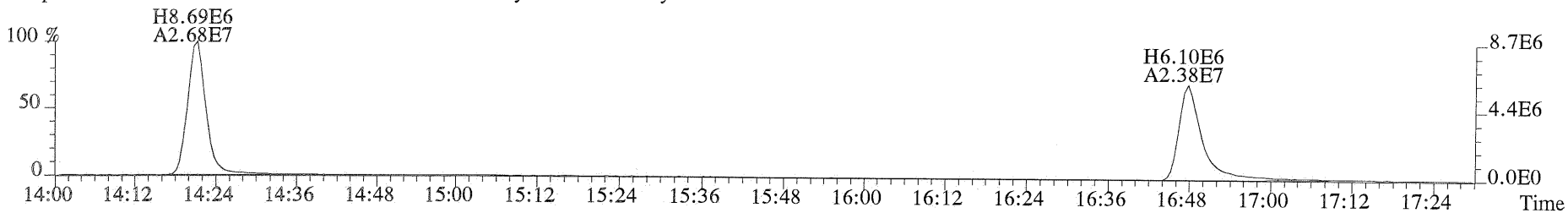
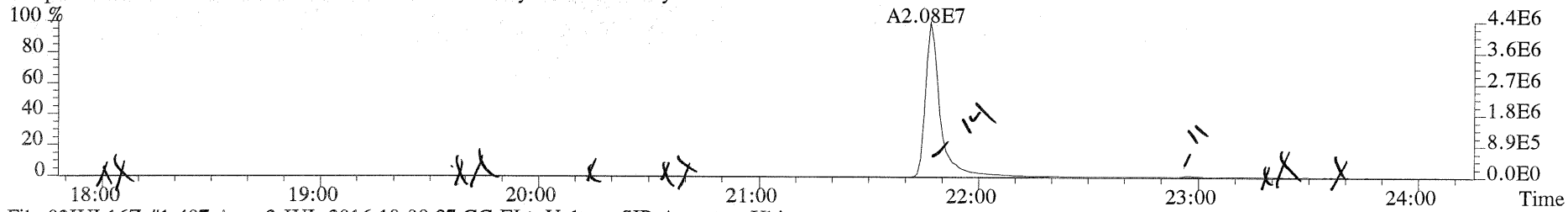
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-497 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-497 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
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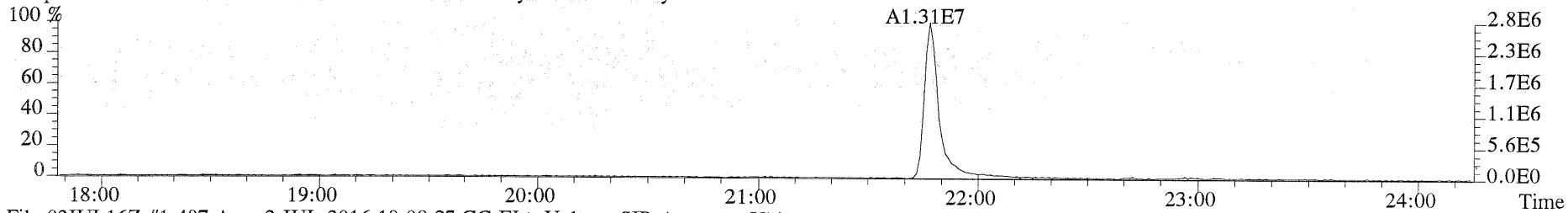
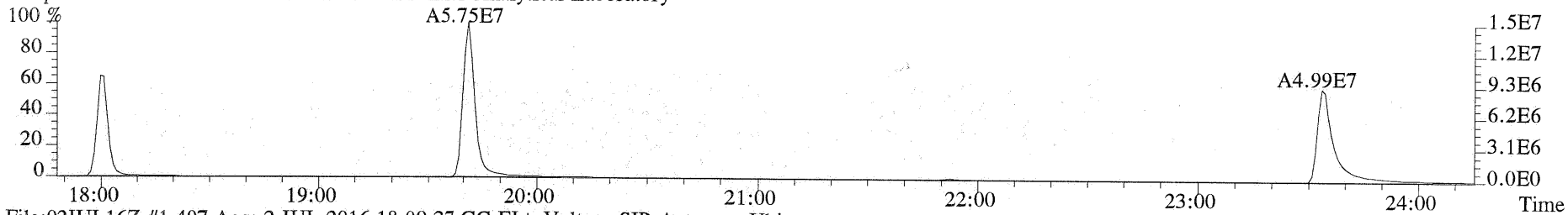
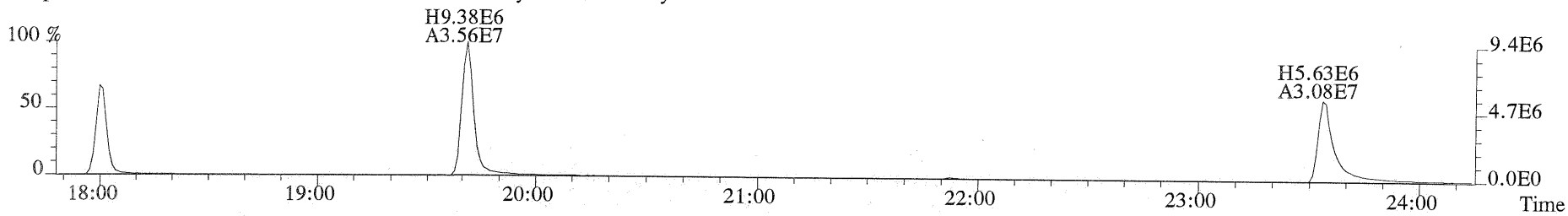
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



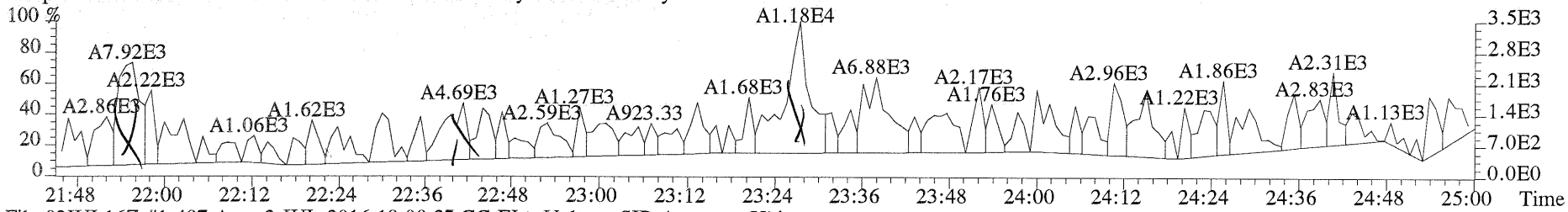
File:02JUL16Z #1-497 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



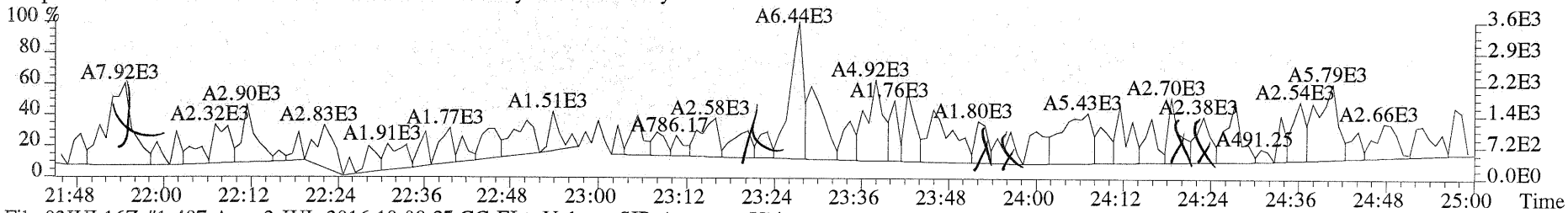
File:02JUL16Z #1-497 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



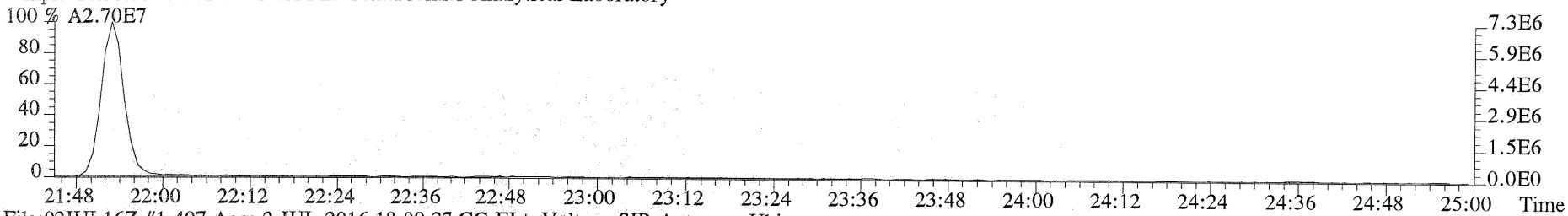
File:02JUL16Z #1-497 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



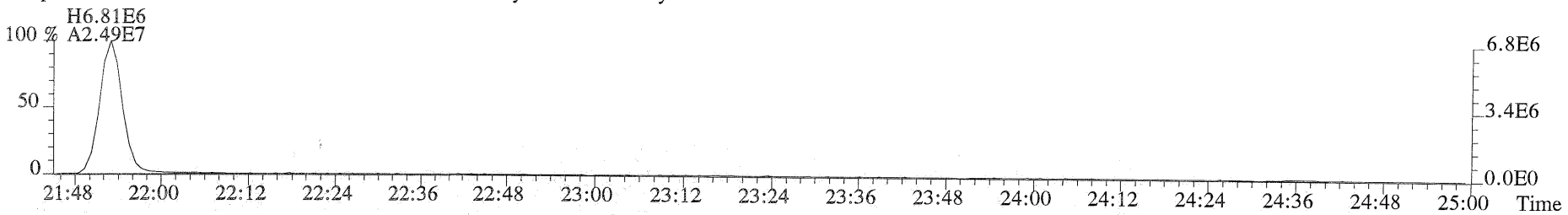
File:02JUL16Z #1-497 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-497 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-497 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



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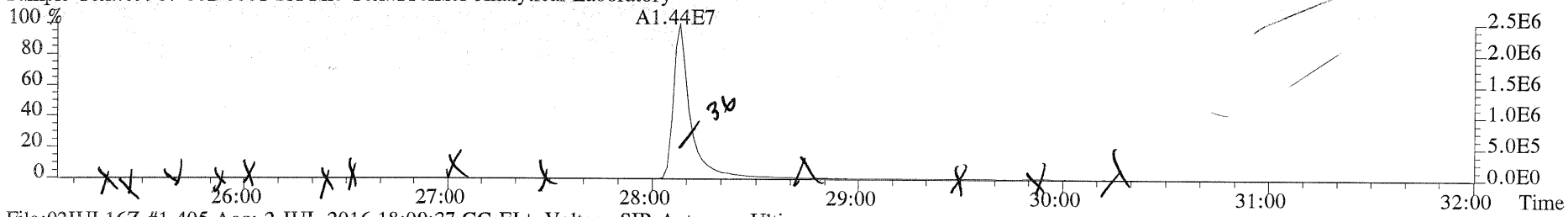
255.9613 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



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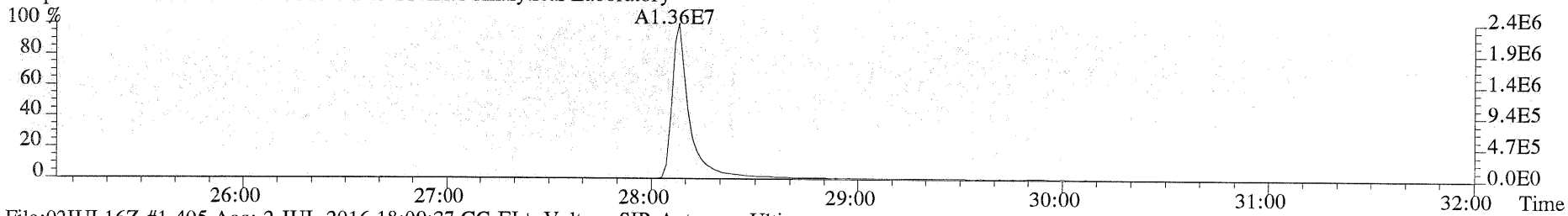
257.9584 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



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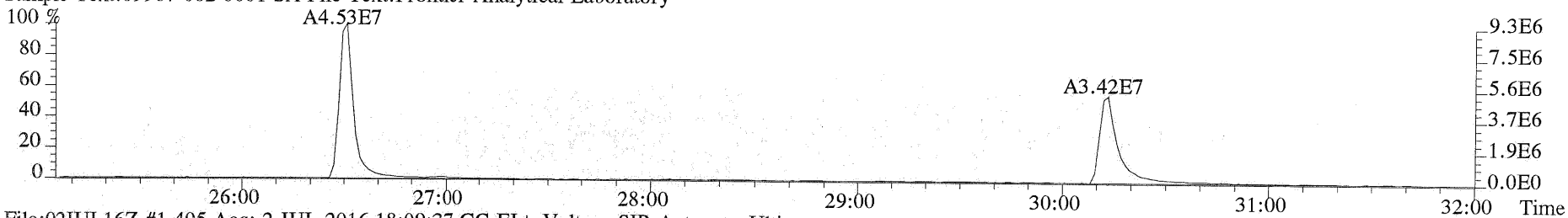
268.0016 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-405 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
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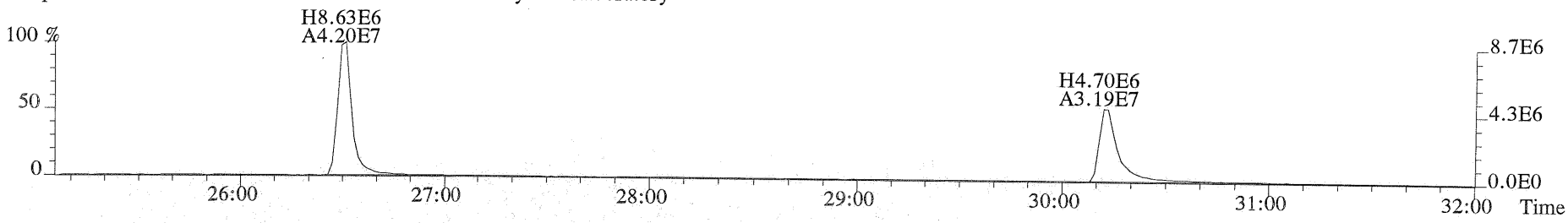
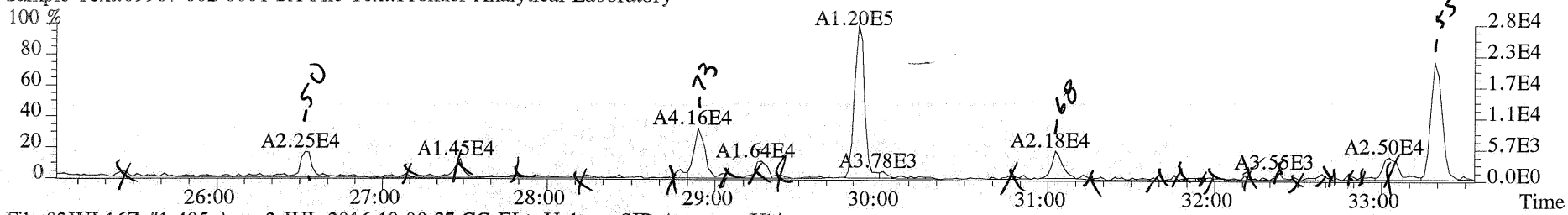
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-405 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



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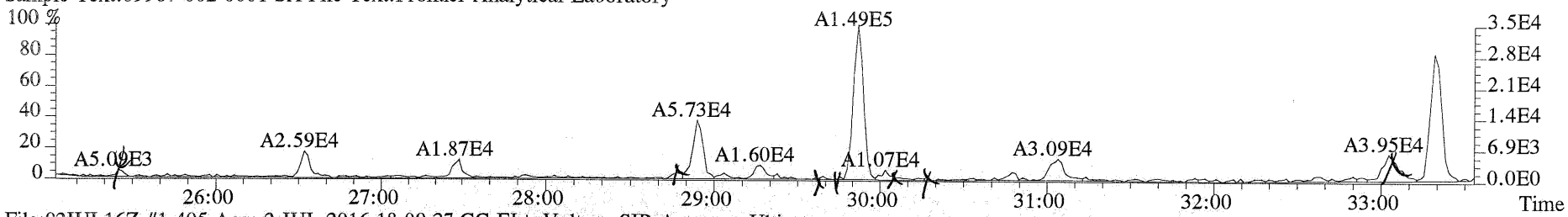
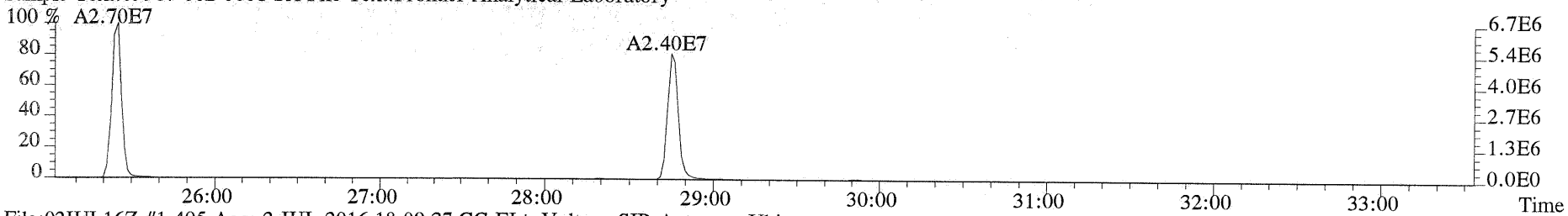
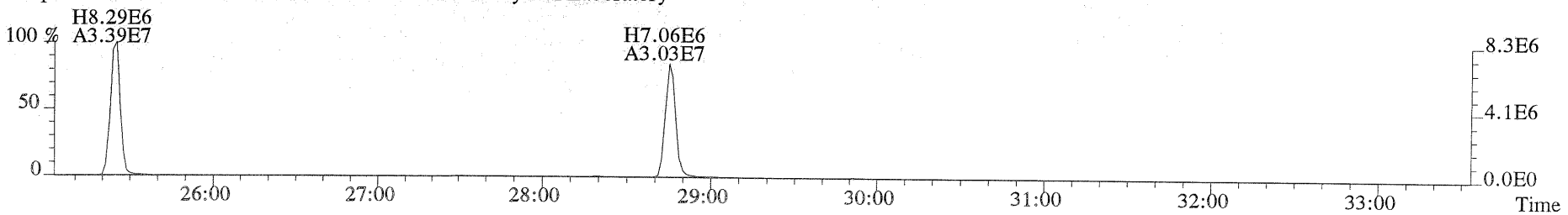
291.9194 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



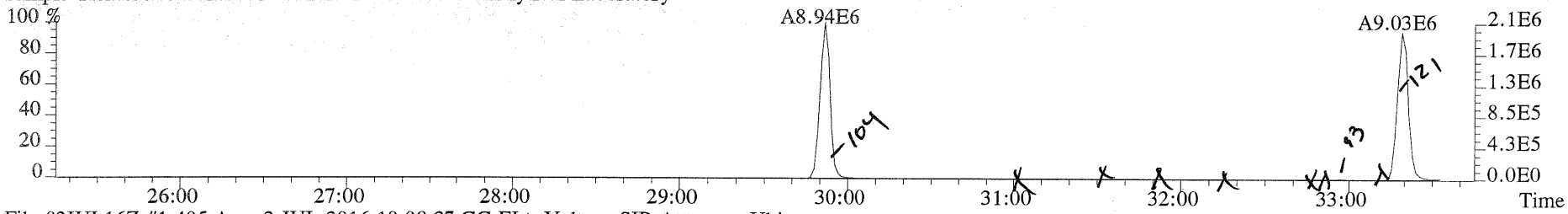
File:02JUL16Z #1-405 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



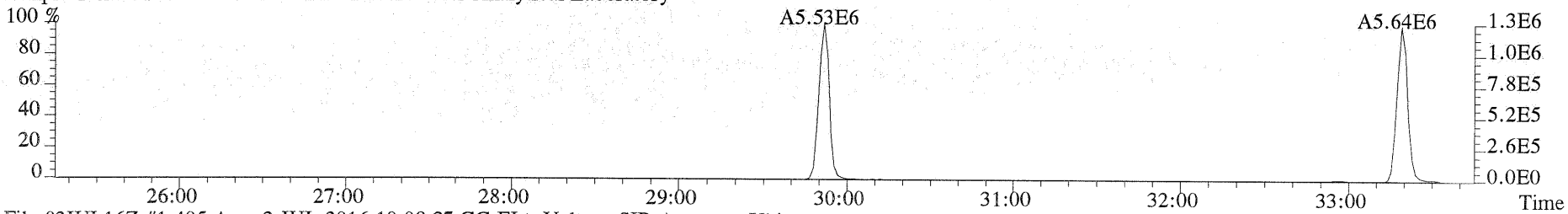
File:02JUL16Z #1-405 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



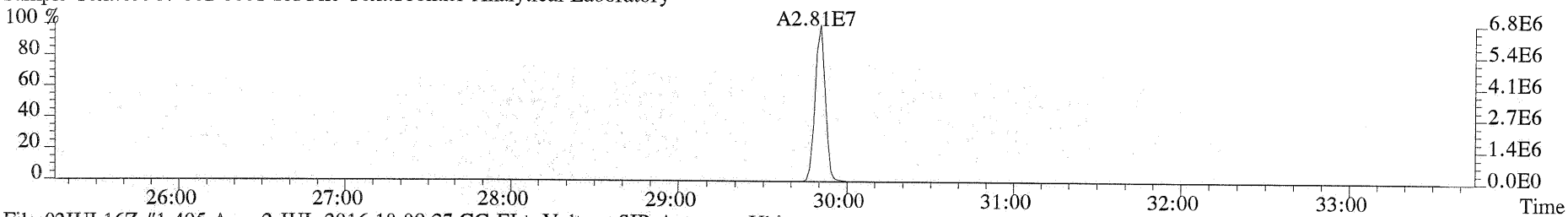
File:02JUL16Z #1-405 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



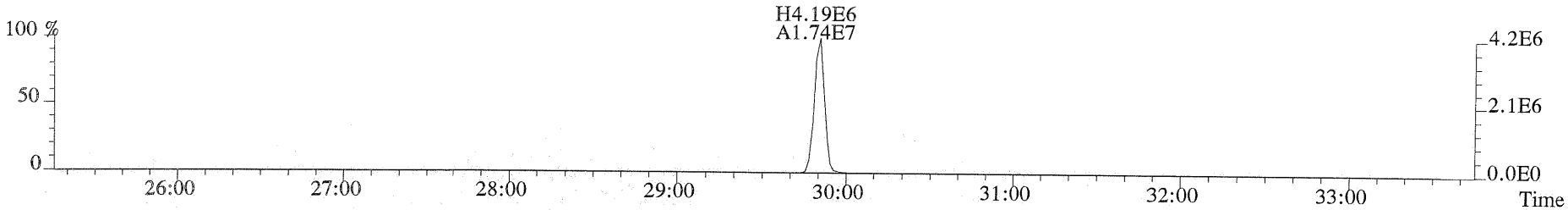
File:02JUL16Z #1-405 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



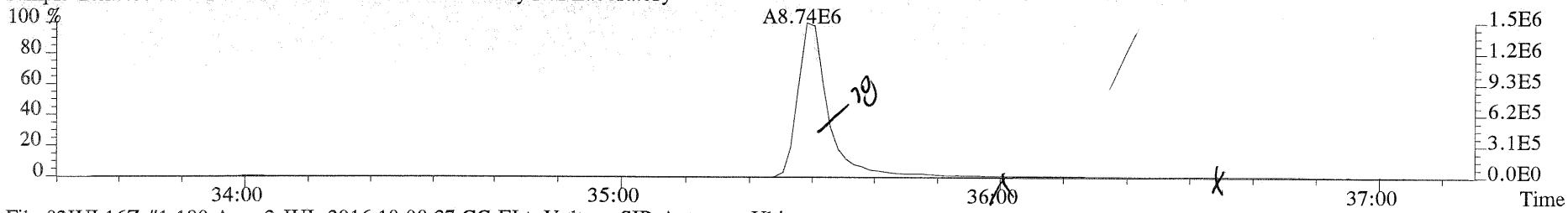
File:02JUL16Z #1-405 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-405 Acq: 2-JUL-2016 18:09:37 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:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-180 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



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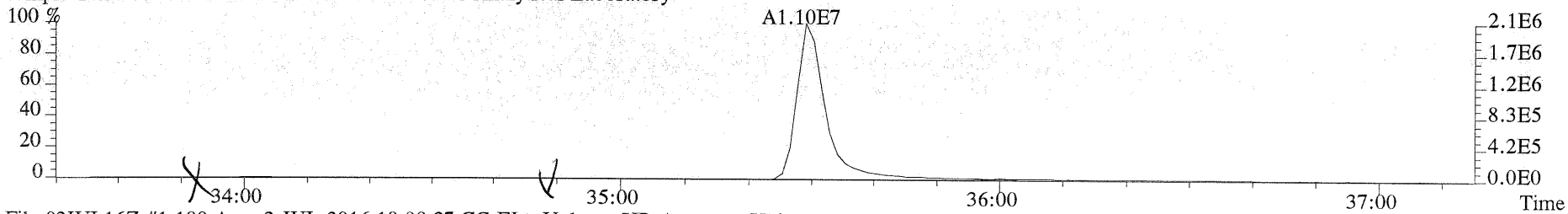
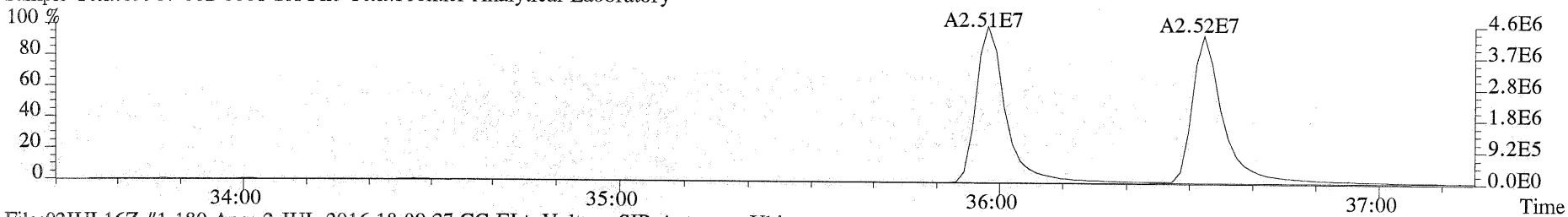
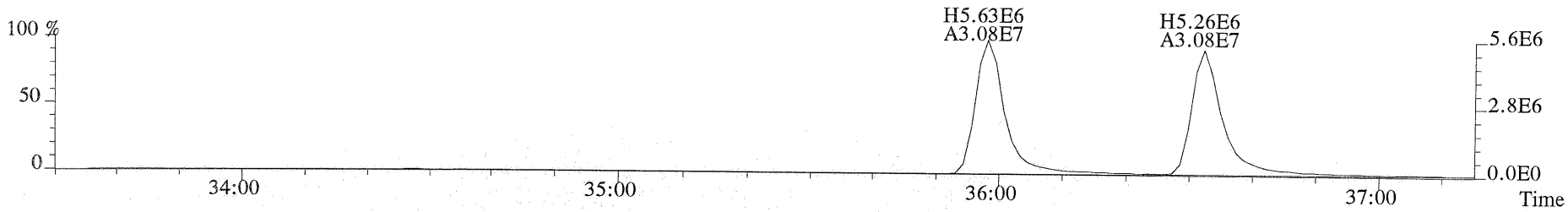
291.9194 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



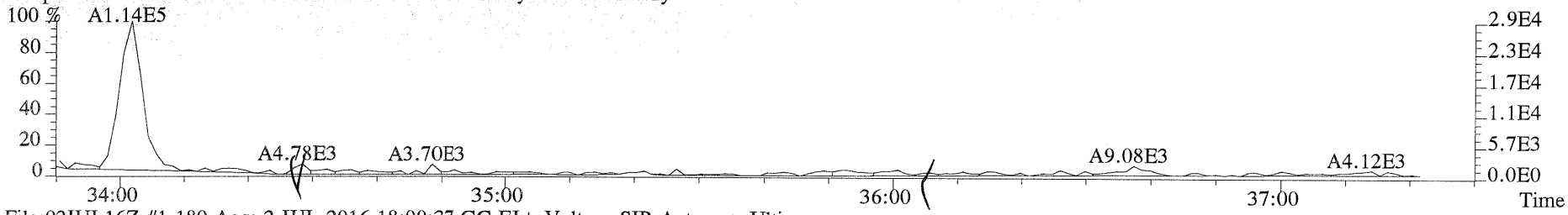
File:02JUL16Z #1-180 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



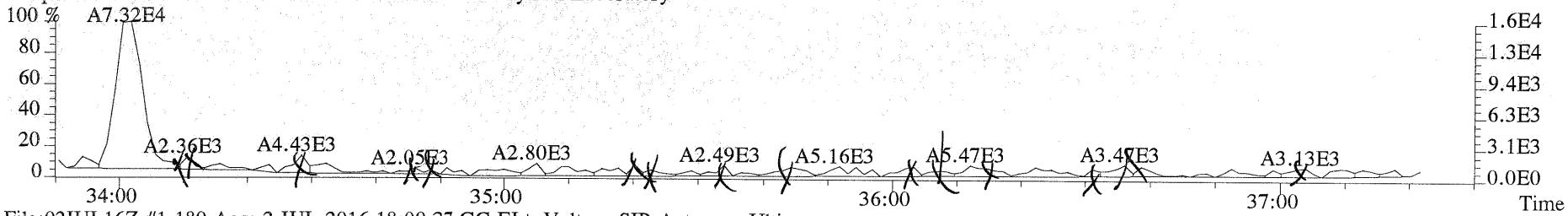
File:02JUL16Z #1-180 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



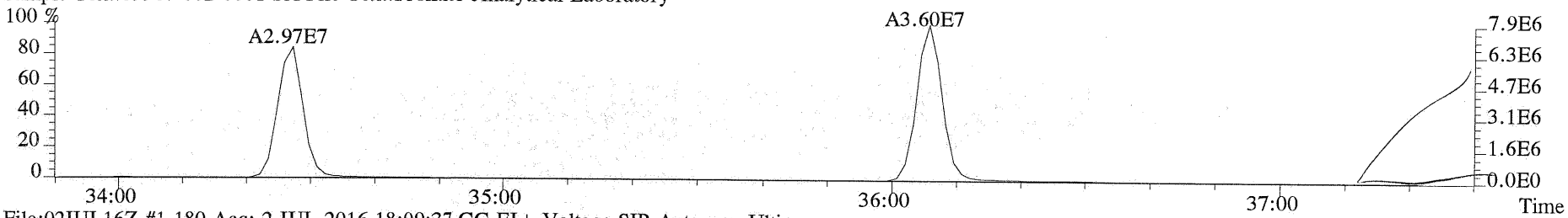
File:02JUL16Z #1-180 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-180 Acq: 2-JUL-2016 18:09:37 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:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-180 Acq: 2-JUL-2016 18:09:37 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:09967-002-0001-SA File Text:Frontier Analytical Laboratory



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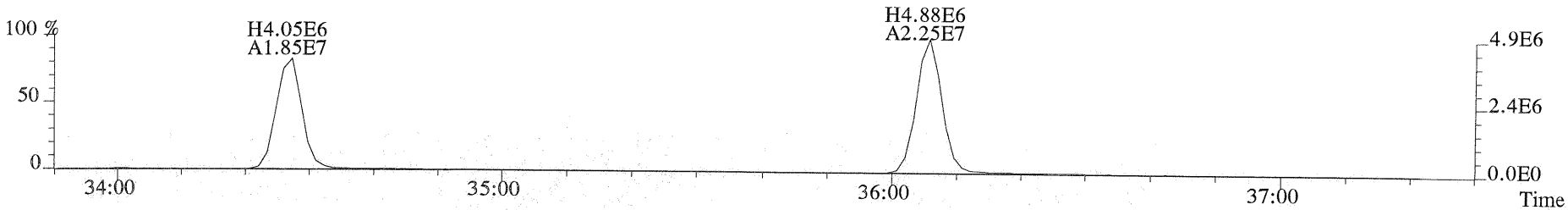
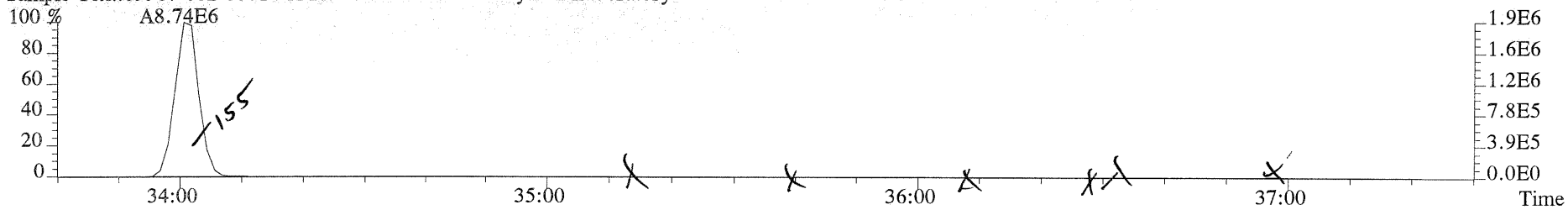
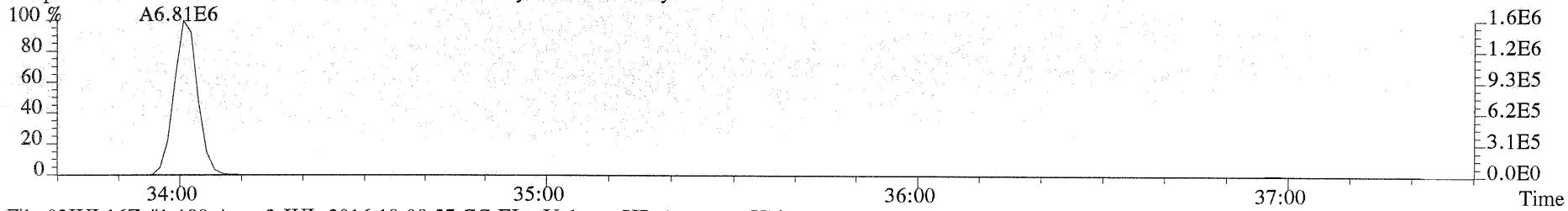
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-180 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-180 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



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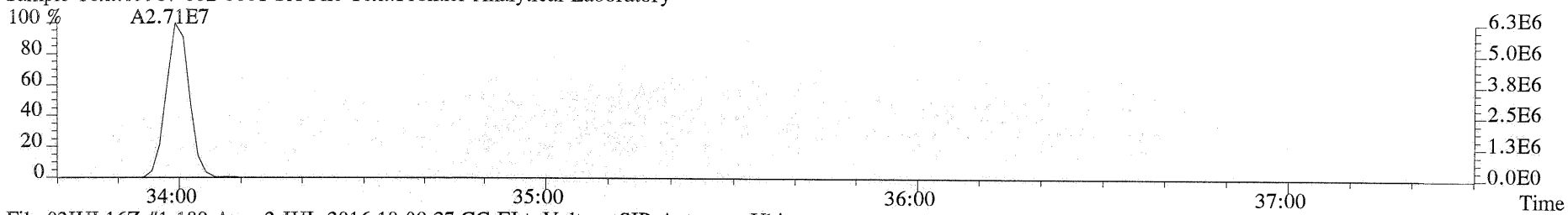
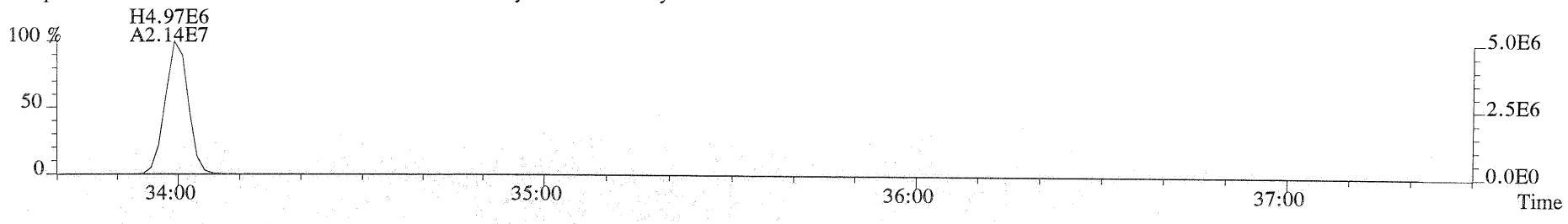
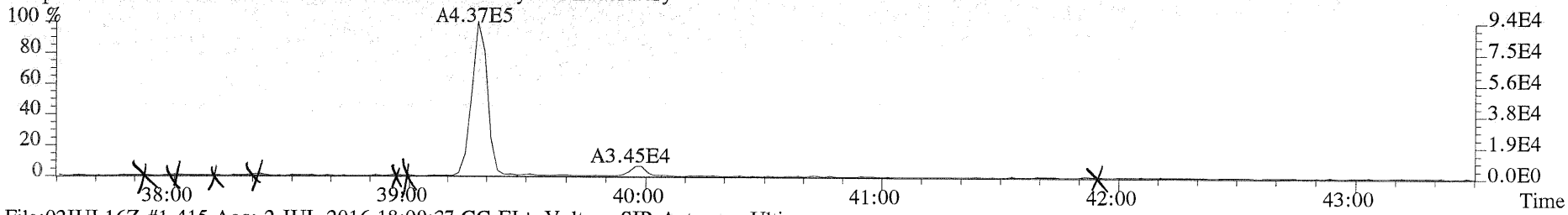
371.8817 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



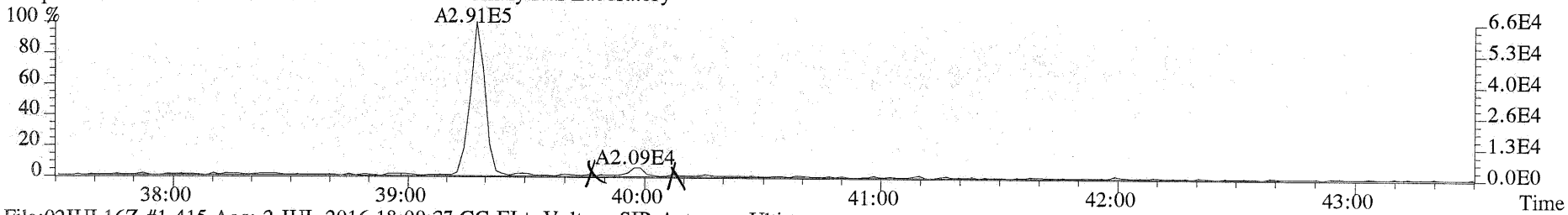
File:02JUL16Z #1-180 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 18:09:37 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:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 18:09:37 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:09967-002-0001-SA File Text:Frontier Analytical Laboratory



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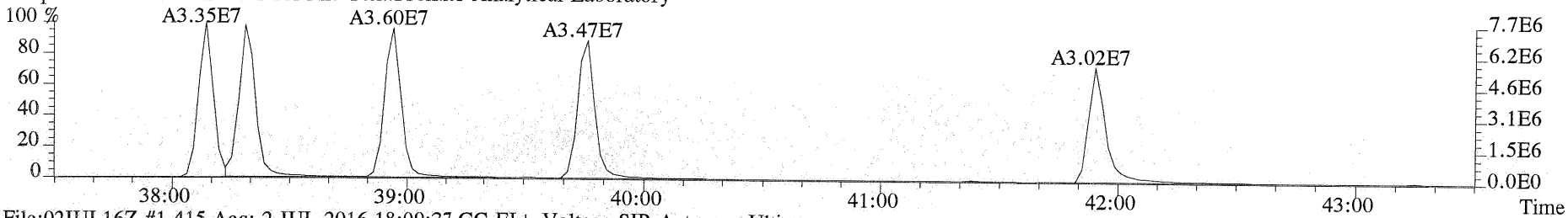
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
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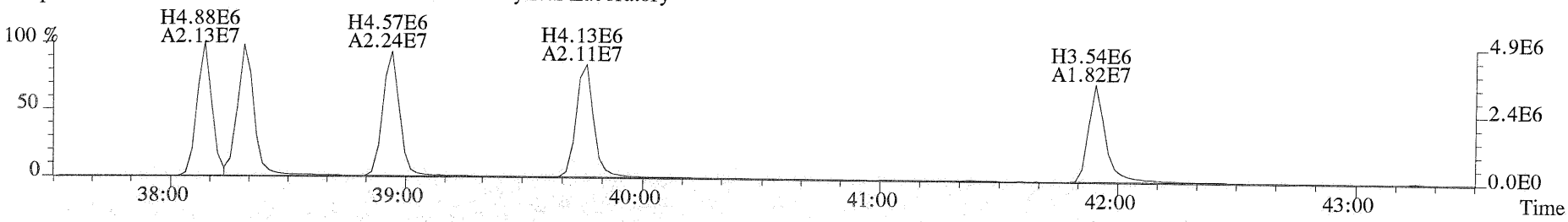
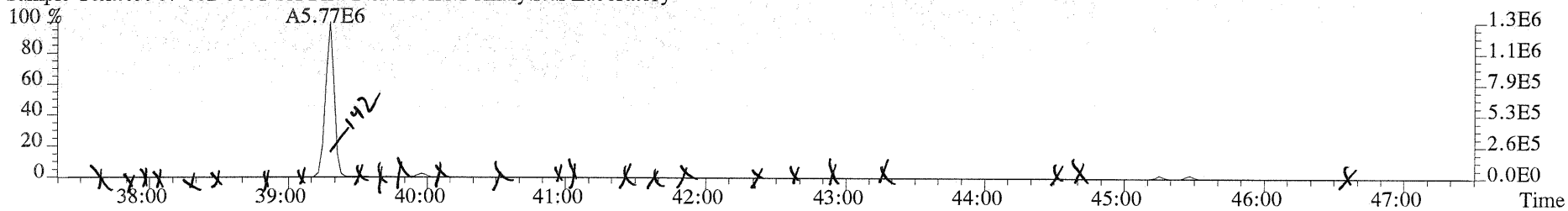
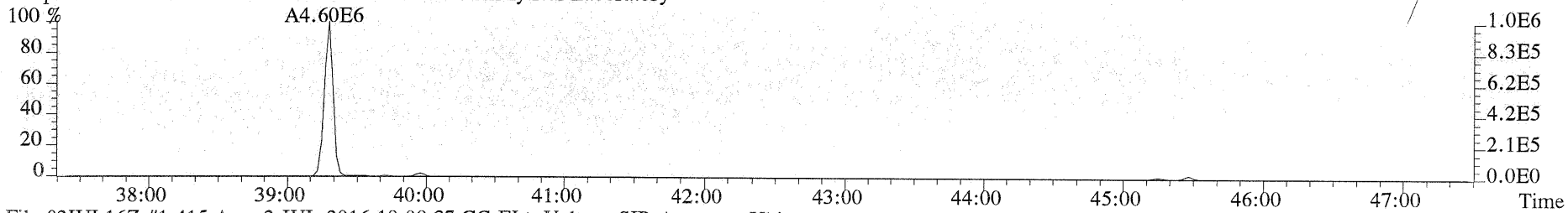
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



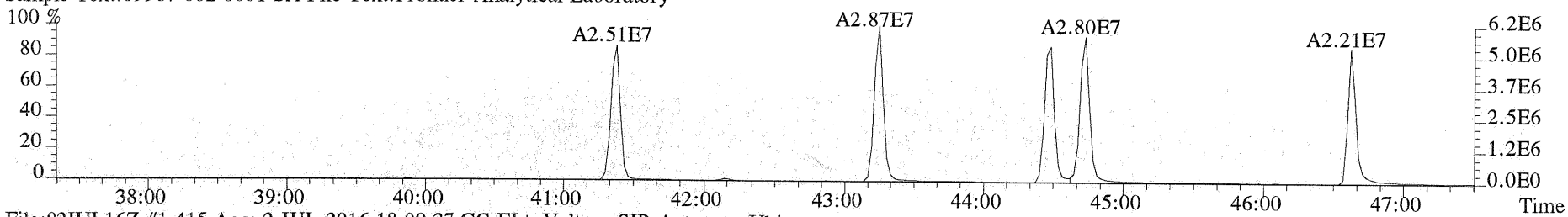
File:02JUL16Z #1-415 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



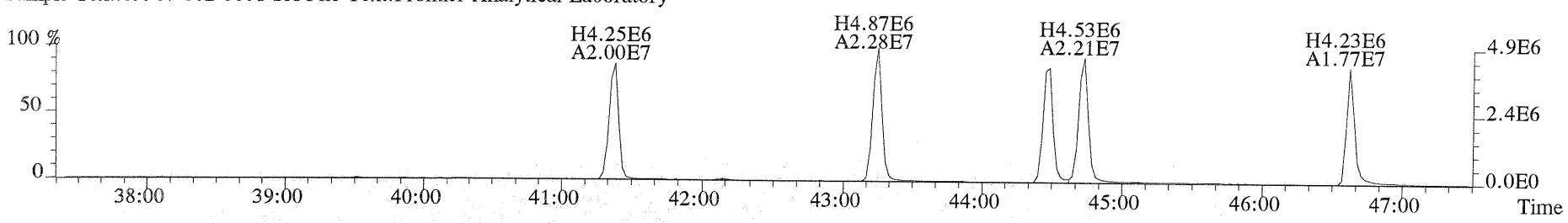
File:02JUL16Z #1-415 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



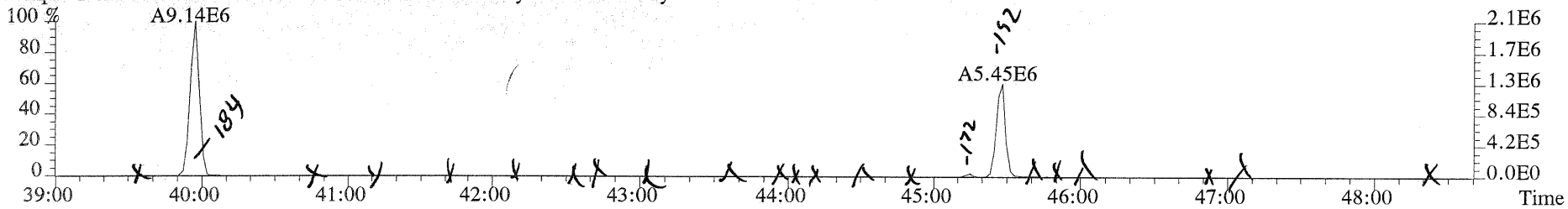
File:02JUL16Z #1-415 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



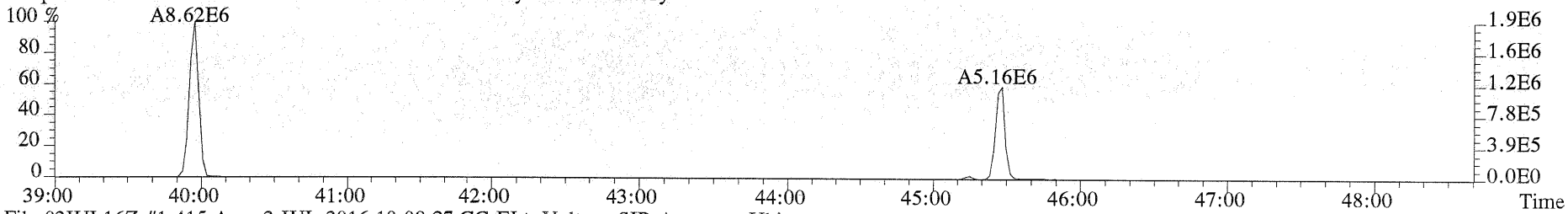
File:02JUL16Z #1-415 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



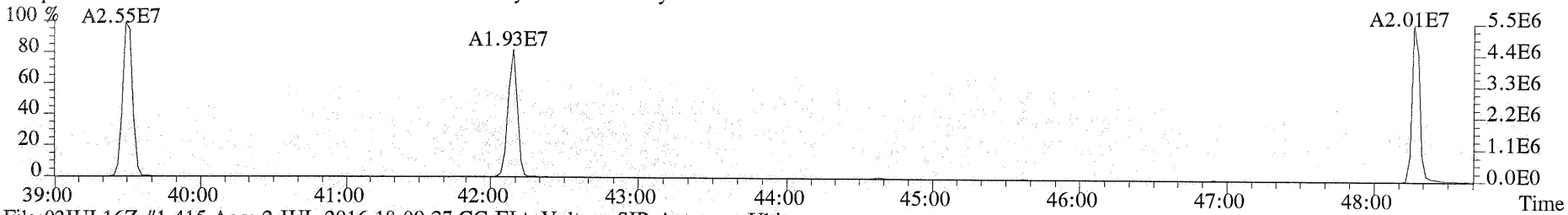
File:02JUL16Z #1-415 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



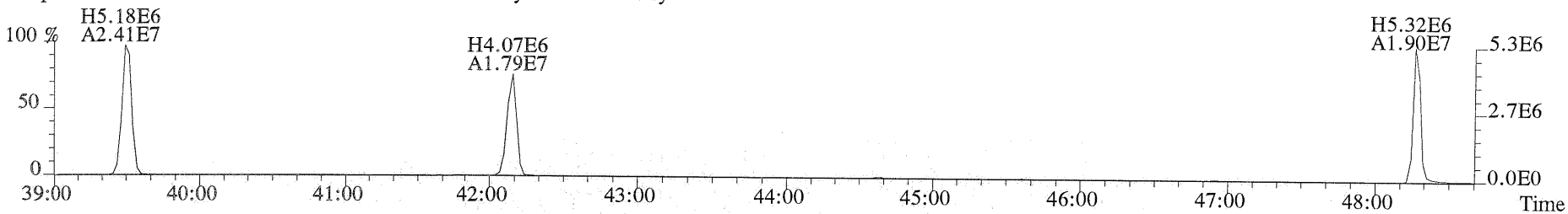
File:02JUL16Z #1-415 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



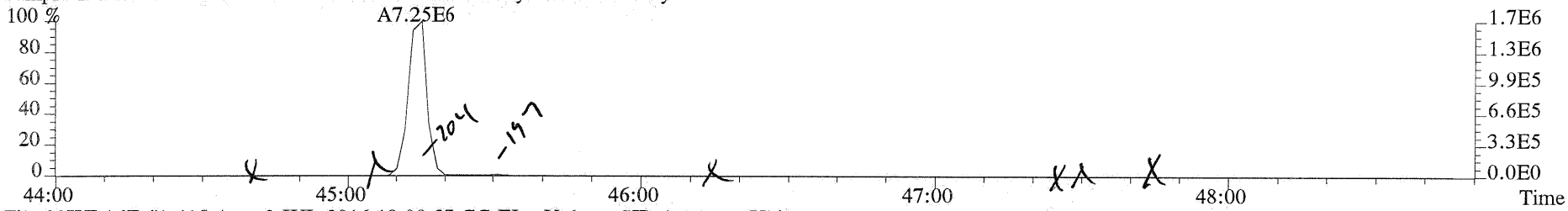
File:02JUL16Z #1-415 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



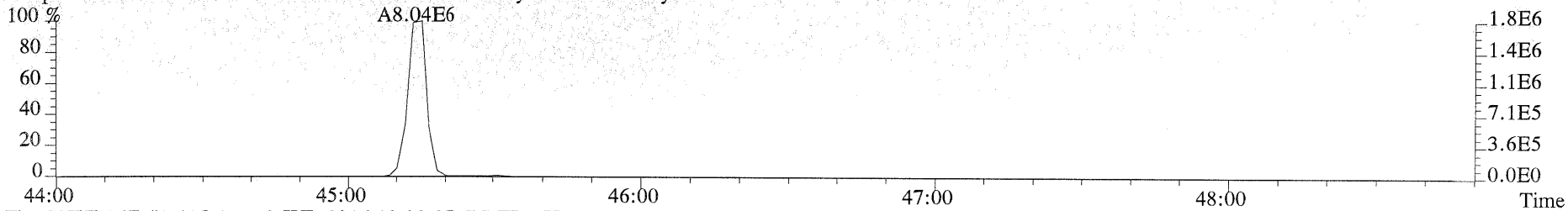
File:02JUL16Z #1-415 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



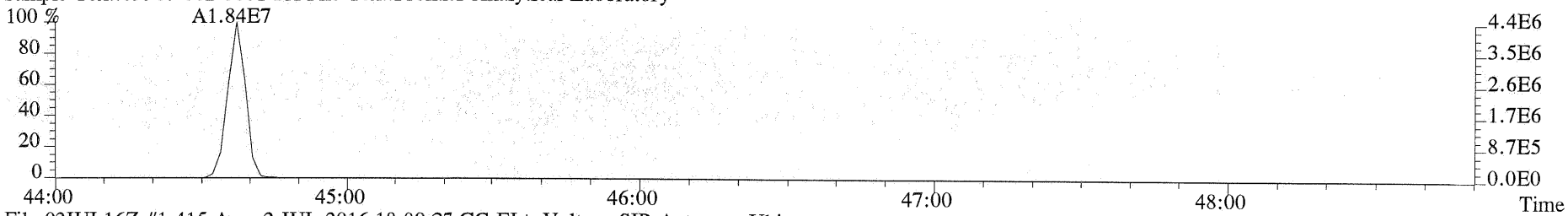
File:02JUL16Z #1-415 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



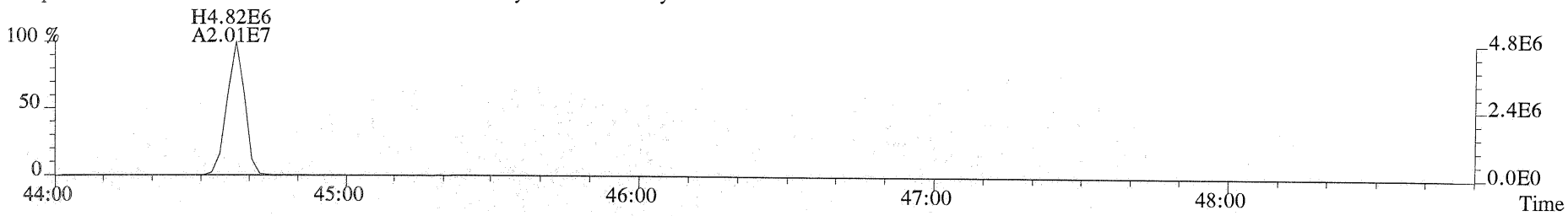
File:02JUL16Z #1-415 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



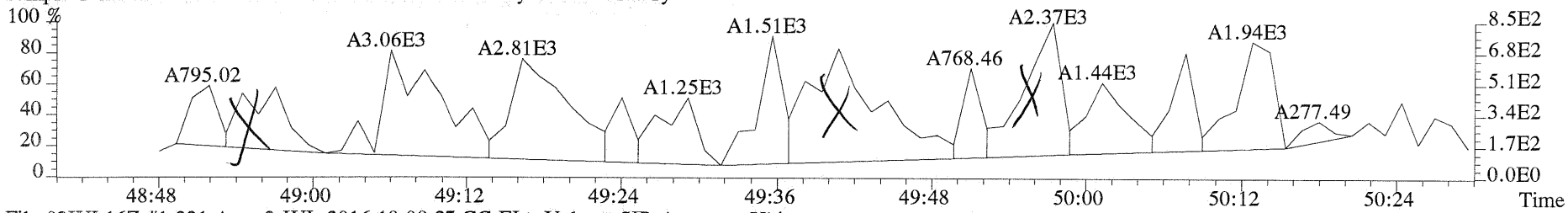
File:02JUL16Z #1-415 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



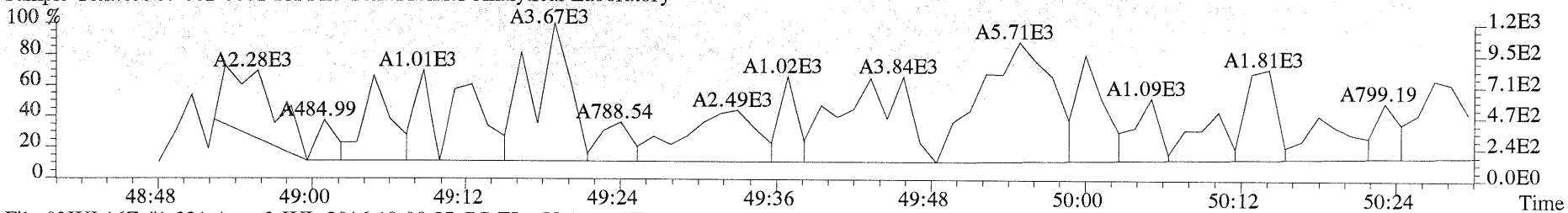
File:02JUL16Z #1-415 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



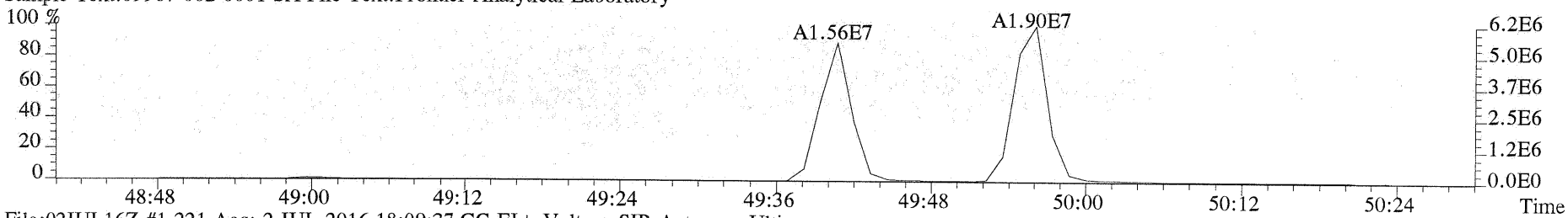
File:02JUL16Z #1-221 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



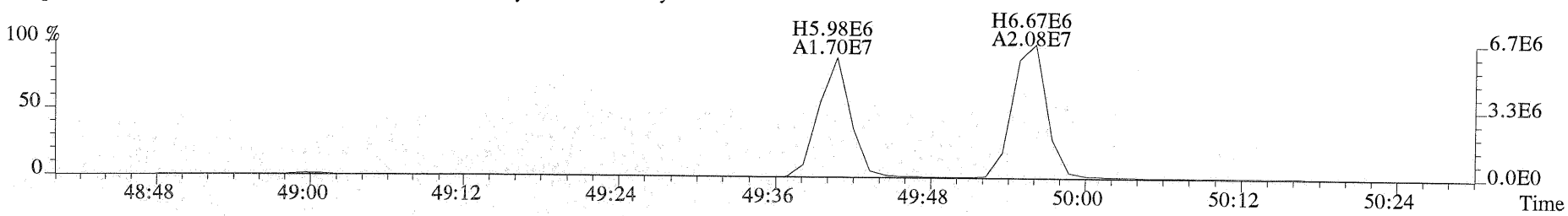
File:02JUL16Z #1-221 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



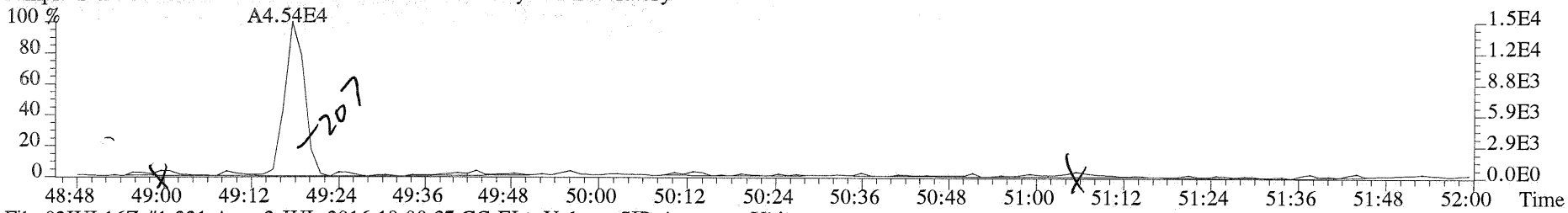
File:02JUL16Z #1-221 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



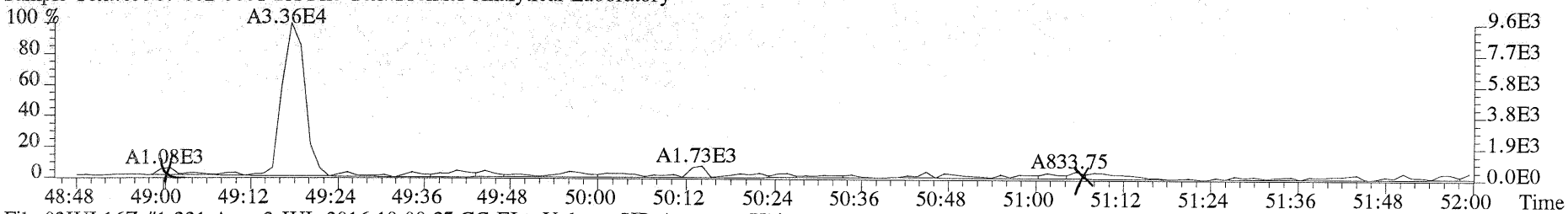
File:02JUL16Z #1-221 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



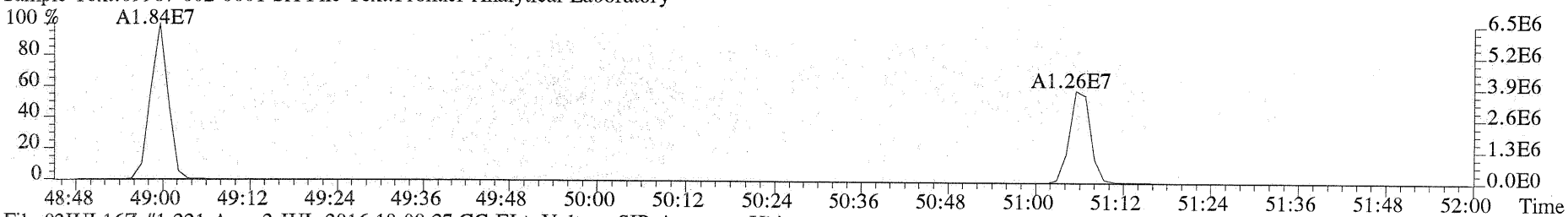
File:02JUL16Z #1-221 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



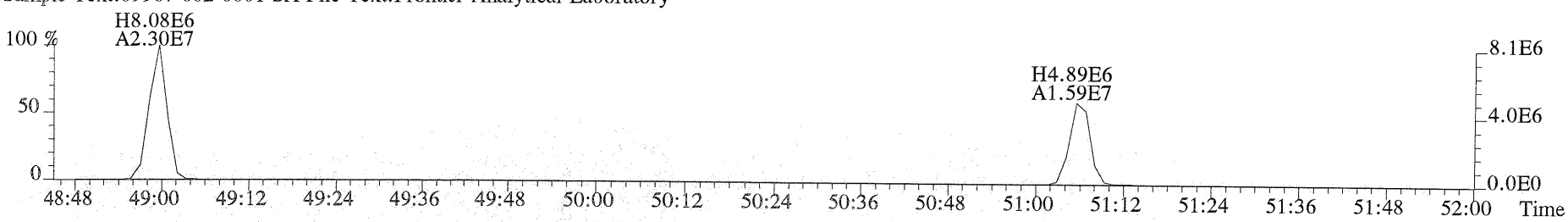
File:02JUL16Z #1-221 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



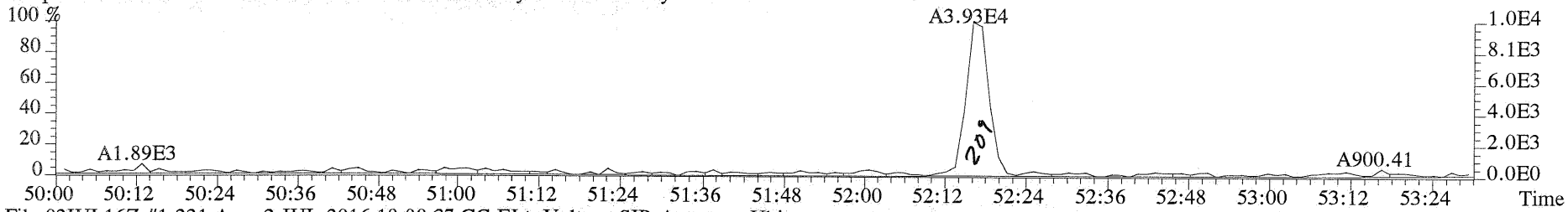
File:02JUL16Z #1-221 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



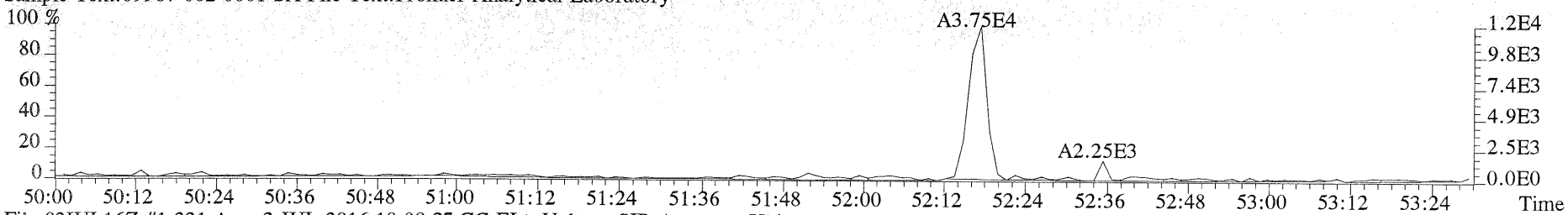
File:02JUL16Z #1-221 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



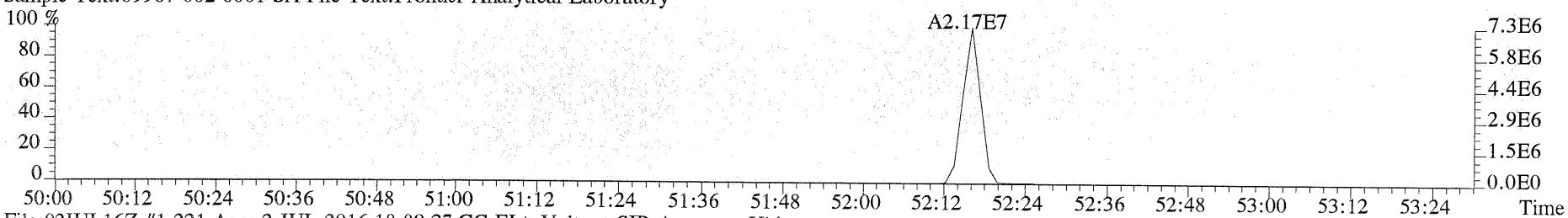
File:02JUL16Z #1-221 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



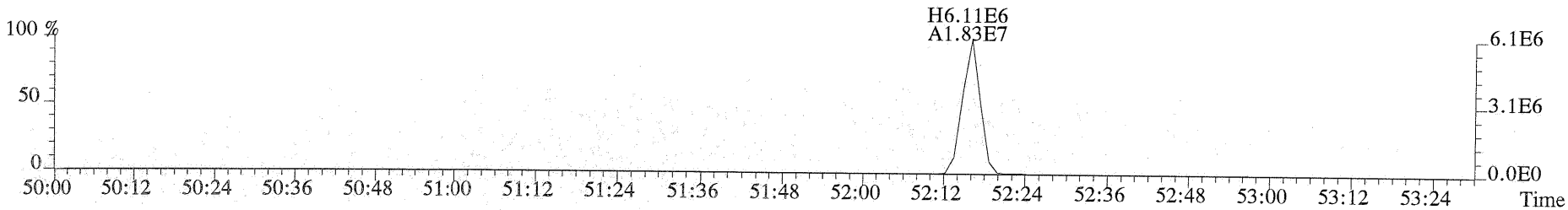
File:02JUL16Z #1-221 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 18:09:37 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-002-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 09967-003-0001-SA Filename: 02JUL16Z Sam:9 Acquired: 2-JUL-16 19:09:34 ICal: DAILY209FAL4-7-2-16
Client ID: LDW-CS-C3-S010-PW-TB ConCal: ST070216Z1 EndCal: ST070216Z2
Results: 9967 GC Column: DB1 Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	0.95	*		3920	2510	6.51	
13C-PCB-1	8.84e+07	3.10	y	14:22	1.24	9100					91.0
PCB-2	*	*	n	NotFnd	0.89	*		3920	2510	8.35	
PCB-3	*	*	n	NotFnd	0.99	*		3920	2510	9.01	
13C-PCB-3	7.55e+07	3.05	y	16:49	1.14	8480					84.8
PCB-4	*	*	n	NotFnd	1.18	*		2660	1980	7.77	
PCB-10	*	*	n	NotFnd	1.17	*		2660	1980	8.87	
13C-PCB-4	4.50e+07	1.60	y	18:01	0.59	9670					96.7
PCB-9	*	*	n	NotFnd	1.32	*		2660	1980	7.87	
PCB-7	*	*	n	NotFnd	1.35	*		2660	1980	7.67	
PCB-6	*	*	n	NotFnd	1.37	*		2660	1980	7.58	
PCB-8	*	*	n	NotFnd	1.30	*		2660	1980	7.96	
PCB-5	*	*	n	NotFnd	1.34	*		2660	1980	7.76	
PCB-14	2.48e+07	1.53	y	21:47	1.27	3680		-	-	*	
PCB-11	2.26e+05	1.67	y	22:58	1.21	35.3		-	-	*	
PCB-13	*	*	n	NotFnd	1.14	*		2660	1980	9.11	
PCB-12	*	*	n	NotFnd	1.22	*		2660	1980	8.49	
PCB-15	*	*	n	NotFnd	1.15	*		2660	1980	9.82	
13C-PCB-15	6.10e+07	1.57	y	23:34	0.91	8520					85.2
PCB-19	*	*	n	NotFnd	1.06	*		1230	1050	4.71	
PCB-30	*	*	n	NotFnd	1.57	*		1230	1050	3.18	
PCB-18	*	*	n	NotFnd	1.02	*		1230	1050	4.88	
PCB-17	*	*	n	NotFnd	1.12	*		1230	1050	4.43	
PCB-27	*	*	n	NotFnd	1.49	*		1230	1050	3.34	
PCB-24	*	*	n	NotFnd	1.48	*		1230	1050	3.37	
PCB-16	*	*	n	NotFnd	1.16	*		1230	1050	4.31	
PCB-32	*	*	n	NotFnd	1.40	*		1230	1050	3.56	
13C-PCB-19	4.23e+07	1.05	y	21:54	0.59	9200					92.0
13C-PCB-9	7.84e+07	1.64	y	19:42	-	38.0					
PCB-34	*	*	n	NotFnd	1.12	*		1700	1320	8.92	
PCB-23	*	*	n	NotFnd	1.13	*		1700	1320	8.85	
PCB-29	*	*	n	NotFnd	1.15	*		1700	1320	8.68	
PCB-26	*	*	n	NotFnd	1.16	*		1700	1320	8.60	
PCB-25	*	*	n	NotFnd	1.28	*		1700	1320	7.81	
PCB-31	*	*	n	NotFnd	1.09	*		1700	1320	9.18	
PCB-28	*	*	n	NotFnd	1.38	*		1700	1320	7.25	
PCB-20	*	*	n	NotFnd	1.19	*		1700	1320	8.41	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.19	*		1700	1320	8.41	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.19	*		1700	1320	8.41	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.09	*		1700	1320	9.21	
PCB-36	1.98e+07	1.03	y	28:09	1.12	3500		-	-	*	
PCB-39	*	*	n	NotFnd	1.08	*		1700	1320	9.25	
PCB-38	*	*	n	NotFnd	1.23	*		1700	1320	8.16	
PCB-35	*	*	n	NotFnd	1.09	*		1700	1320	9.18	
PCB-37	*	*	n	NotFnd	1.17	*		1700	1320	8.53	
13C-PCB-37	5.03e+07	1.13	y	30:14	1.21	9120					91.2

PCB-54	*	*	n	NotFnd	1.09	*		568	724	2.46	
PCB-50	3.53e+04	0.83	y	26:33	0.86	8.46	J	-	-	*	
PCB-53	*	*	n	NotFnd	0.82	*		568	724	3.30	
PCB-51	*	*	n	NotFnd	0.80	*		568	724	3.35	
PCB-45	*	*	n	NotFnd	0.76	*		568	724	3.54	
PCB-46	*	*	n	NotFnd	0.70	*		568	724	3.86	
PCB-52	*	*	n	NotFnd	1.06	*		568	724	2.54	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	1.06	*		568	724	2.54	Co-elute PCB 52
PCB-73	7.55e+04	0.75	y	28:54	1.01	15.4	J	-	-	*	
PCB-43	*	*	n	NotFnd	0.85	*		568	724	3.15	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.85	*		568	724	3.15	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.98	*		568	724	2.75	
PCB-48	*	*	n	NotFnd	1.04	*		568	724	2.58	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	1.04	*		568	724	2.58	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.11	*		568	724	2.42	
PCB-62	*	*	n	NotFnd	0.98	*		568	724	2.74	
PCB-44	*	*	n	NotFnd	0.74	*		568	724	3.63	
PCB-42	*	*	n	NotFnd	0.98	*		568	724	2.74	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.98	*		568	724	2.74	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	1.07	*		568	724	2.50	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	1.07	*		568	724	2.50	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	1.07	*		568	724	2.50	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	1.07	*		568	724	2.50	Co-elute PCB 72/41/71
PCB-68	4.06e+04	0.74	y	31:03	1.13	7.37	J	-	-	*	
PCB-40	*	*	n	NotFnd	0.65	*		568	724	4.14	
PCB-57	*	*	n	NotFnd	1.12	*		568	724	2.40	
PCB-67	*	*	n	NotFnd	1.07	*		568	724	2.51	
PCB-58	*	*	n	NotFnd	1.07	*		568	724	2.51	
PCB-63	*	*	n	NotFnd	1.11	*		568	724	2.42	
PCB-74	*	*	n	NotFnd	1.14	*		568	724	2.36	
PCB-61	*	*	n	NotFnd	1.10	*		568	724	2.44	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	1.10	*		568	724	2.44	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.14	*		568	724	2.35	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.14	*		568	724	2.35	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.23	*		568	724	2.18	
PCB-55	1.73e+05	0.81	y	33:20	1.08	32.7		-	-	*	
13C-PCB-54	4.87e+07	0.80	y	25:25	1.07	9950					99.5
PCB-104	1.03e+07	1.59	y	29:53	1.23	2300		-	-	*	
PCB-96	*	*	n	NotFnd	1.15	*		592	1150	4.48	
PCB-103	*	*	n	NotFnd	0.96	*		592	1150	5.34	
PCB-100	*	*	n	NotFnd	0.91	*		592	1150	5.66	
PCB-94	*	*	n	NotFnd	0.76	*		592	1150	6.73	
PCB-98	*	*	n	NotFnd	0.99	*		592	1150	5.20	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.99	*		592	1150	5.20	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.82	*		592	1150	6.30	
PCB-93	4.24e+04	1.46	y	32:56	0.76	15.2	J	-	-	*	
PCB-88	*	*	n	NotFnd	0.87	*		592	1150	5.89	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.87	*		592	1150	5.89	Co-elute PCB 88
PCB-121	1.12e+07	1.60	y	33:20	1.05	2930		-	-	*	
13C-PCB-104	3.66e+07	1.60	y	29:50	0.81	9940					99.4
13C-PCB-28	6.75e+07	1.10	y	26:30	1.42	10400					104
13C-PCB-52	4.56e+07	0.78	y	28:46	-	36.6					

PCB-56	*	*	n	NotFnd	1.17	*	1260	1300	7.05	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.17	*	1260	1300	7.05	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.20	*	1260	1300	6.89	
PCB-78	1.51e+07	0.82	y	35:30	1.21	2790	-	-	*	
PCB-81	*	*	n	NotFnd	1.27	*	1260	1300	6.18	
13C-PCB-81	4.50e+07	0.80	y	35:59	1.12	9790				97.9
PCB-77	*	*	n	NotFnd	1.14	*	1260	1300	7.58	
13C-PCB-77	4.46e+07	0.79	y	36:33	1.10	9880				98.8
PCB-155	1.21e+07	1.27	y	34:01	1.13	2690	-	-	*	
PCB-150	*	*	n	NotFnd	1.02	*	688	592	3.25	
PCB-152	*	*	n	NotFnd	1.05	*	688	592	3.14	
PCB-145	*	*	n	NotFnd	0.99	*	688	592	3.34	
PCB-136	*	*	n	NotFnd	1.01	*	688	592	3.29	
PCB-148	*	*	n	NotFnd	0.80	*	688	592	4.15	
PCB-154	*	*	n	NotFnd	0.89	*	688	592	3.73	
13C-PCB-155	3.96e+07	1.27	y	34:00	1.01	9550				95.5
13C-PCB-111	4.71e+07	1.59	y	36:05	1.13	10200				102
13C-PCB-101	4.09e+07	1.61	y	34:27	-	38.0				
PCB-84	*	*	n	NotFnd	0.80	*	932	820	5.70	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.80	*	932	820	5.70	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.78	*	932	820	5.78	
PCB-90	*	*	n	NotFnd	0.87	*	932	820	5.21	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.87	*	932	820	5.21	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.07	*	932	820	4.24	
PCB-99	*	*	n	NotFnd	0.90	*	932	820	5.05	
PCB-119	*	*	n	NotFnd	1.16	*	932	820	3.92	
PCB-83	*	*	n	NotFnd	0.93	*	932	820	4.85	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.93	*	932	820	4.85	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.05	*	932	820	4.33	
PCB-97	*	*	n	NotFnd	0.90	*	932	820	5.05	
PCB-86	*	*	n	NotFnd	0.71	*	932	820	6.42	
PCB-125	*	*	n	NotFnd	1.06	*	932	820	4.29	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	1.06	*	932	820	4.29	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	1.06	*	932	820	4.29	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.20	*	932	820	3.77	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.20	*	932	820	3.77	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.99	*	932	820	4.58	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.99	*	932	820	4.58	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.19	*	932	820	3.81	
PCB-110	*	*	n	NotFnd	1.18	*	932	820	3.85	
PCB-82	*	*	n	NotFnd	0.69	*	932	820	6.61	
PCB-124	*	*	n	NotFnd	1.12	*	688	804	3.44	
PCB-108	*	*	n	NotFnd	1.01	*	688	804	3.81	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.01	*	688	804	3.81	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.15	*	688	804	3.31	
13C-PCB-123	4.46e+07	1.58	y	38:08	1.10	10600				106
PCB-118	*	*	n	NotFnd	1.02	*	688	804	3.84	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.02	*	688	804	3.84	Co-elute PCB 118
13C-PCB-118	4.80e+07	1.59	y	38:20	1.16	10800				108
PCB-114	*	*	n	NotFnd	1.06	*	688	804	3.68	
13C-PCB-114	4.68e+07	1.56	y	38:56	1.13	10800				108
PCB-122	*	*	n	NotFnd	1.18	*	688	804	3.27	
PCB-105	*	*	n	NotFnd	1.13	*	688	804	3.38	
13C-PCB-105	4.50e+07	1.60	y	39:45	1.13	10400				104

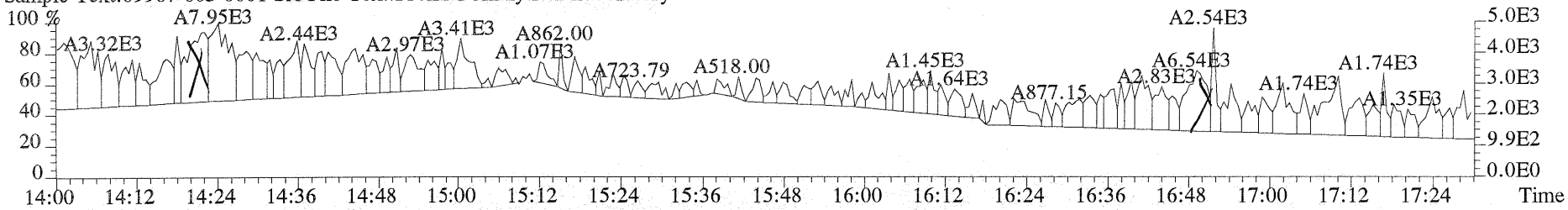
PCB-127	*	*	n	NotFnd	1.04	*	688	804	3.72	
PCB-126	*	*	n	NotFnd	1.16	*	688	804	4.79	
13C-PCB-126	3.95e+07	1.62	y	41:54	0.98	10500				105
PCB-151	*	*	n	NotFnd	0.88	*	612	564	3.95	
PCB-135	*	*	n	NotFnd	0.86	*	612	564	4.07	
PCB-144	*	*	n	NotFnd	0.94	*	612	564	3.71	
PCB-147	*	*	n	NotFnd	0.97	*	612	564	3.58	
PCB-139	*	*	n	NotFnd	0.95	*	612	564	3.66	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	0.95	*	612	564	3.66	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.93	*	612	564	3.73	
PCB-143	*	*	n	NotFnd	0.89	*	612	564	3.90	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.89	*	612	564	3.90	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.90	*	612	564	3.88	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.90	*	612	564	3.88	Co-elute PCB 131
PCB-142	8.18e+06	1.28	y	39:17	0.83	2580	-	-	*	
PCB-165	*	*	n	NotFnd	1.08	*	612	564	3.22	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.08	*	612	564	3.22	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	1.01	*	612	564	3.45	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	1.01	*	612	564	3.45	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	1.10	*	612	564	3.17	
PCB-168	*	*	n	NotFnd	1.15	*	612	564	3.03	
PCB-141	*	*	n	NotFnd	0.91	*	612	564	3.81	
PCB-137	*	*	n	NotFnd	0.85	*	612	564	4.11	
PCB-130	*	*	n	NotFnd	0.83	*	612	564	4.22	
PCB-138	*	*	n	NotFnd	1.17	*	612	564	2.97	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.17	*	612	564	2.97	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.17	*	612	564	2.97	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.17	*	612	564	2.97	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.17	*	612	564	2.97	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.77	*	612	564	4.55	
PCB-166	*	*	n	NotFnd	1.13	*	612	564	3.09	
PCB-159	*	*	n	NotFnd	1.21	*	612	564	2.87	
PCB-128	*	*	n	NotFnd	0.95	*	612	564	3.68	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	0.95	*	612	564	3.68	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	1.04	*	612	564	2.99	
13C-PCB-167	4.13e+07	1.29	y	43:14	1.04	10400				104
PCB-156	*	*	n	NotFnd	1.09	*	612	564	3.16	
13C-PCB-156	3.81e+07	1.25	y	44:28	1.01	9810				98.1
PCB-157	*	*	n	NotFnd	1.00	*	612	564	3.28	
13C-PCB-157	4.12e+07	1.28	y	44:43	1.03	10400				104
PCB-169	*	*	n	NotFnd	1.02	*	612	564	4.22	
13C-PCB-169	3.29e+07	1.26	y	46:39	0.89	9630				96.3

FAL ID: 09967-003-0001-SA Filename: 02JUL16Z Sam:9 Acquired: 2-JUL-16 19:09:34 ICal: DAILY209FAL4-7-2-16
Client ID: LDW-CS-C3-S010-PW-TB ConCal: ST070216Z1 EndCal: ST070216Z2
Results: 9967 GC Column: DB1 Amount: 1.000

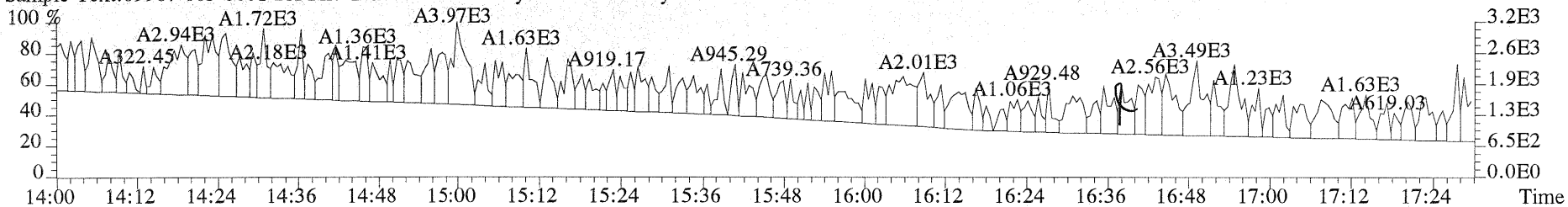
PCB-188	*	*	n	NotFnd	1.16	*		768	596	3.09	
13C-PCB-188	4.02e+07	1.07	y	39:31	1.12	9340					93.4
PCB-184	1.47e+07	1.05	y	39:57	1.27	3230		-	-	*	
PCB-179	*	*	n	NotFnd	1.27	*		768	596	2.87	
PCB-176	*	*	n	NotFnd	1.24	*		768	596	2.93	
PCB-186	*	*	n	NotFnd	1.19	*		768	596	3.04	
PCB-178	*	*	n	NotFnd	0.90	*		768	596	4.03	
PCB-175	*	*	n	NotFnd	0.93	*		768	596	3.92	
PCB-187	*	*	n	NotFnd	0.98	*		768	596	3.72	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.98	*		768	596	3.72	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.99	*		768	596	3.67	
PCB-185	*	*	n	NotFnd	0.87	*		768	596	4.18	
PCB-174	*	*	n	NotFnd	0.95	*		768	596	3.83	
PCB-181	*	*	n	NotFnd	0.81	*		768	596	4.48	
PCB-177	*	*	n	NotFnd	0.84	*		768	596	4.31	
PCB-171	*	*	n	NotFnd	0.89	*		768	596	4.07	
PCB-173	*	*	n	NotFnd	0.79	*		768	596	4.61	
PCB-172	2.41e+05	0.94	y	45:15	0.83	80.6		-	-	*	
PCB-192	9.06e+06	1.04	y	45:28	1.06	2390		-	-	*	
PCB-180	*	*	n	NotFnd	0.98	*		768	596	3.72	
PCB-193	*	*	n	NotFnd	1.15	*		768	596	3.16	
PCB-191	*	*	n	NotFnd	1.12	*		768	596	3.25	
PCB-170	*	*	n	NotFnd	0.77	*		768	596	4.71	
PCB-190	*	*	n	NotFnd	1.06	*		768	596	3.43	
PCB-189	*	*	n	NotFnd	1.15	*		768	596	3.20	
13C-PCB-189	3.14e+07	1.05	y	48:17	0.86	9480					94.8
PCB-202	*	*	n	NotFnd	0.98	*		376	484	3.01	
PCB-201	*	*	n	NotFnd	1.03	*		376	484	2.88	
PCB-204	1.33e+07	0.92	y	45:15	1.00	4240		-	-	*	
PCB-197	1.22e+05	0.86	y	45:29	1.00	38.9		-	-	*	
PCB-200	*	*	n	NotFnd	1.00	*		376	484	2.96	
PCB-198	*	*	n	NotFnd	0.71	*		376	484	4.15	
PCB-199	*	*	n	NotFnd	0.67	*		376	484	4.41	
PCB-203	*	*	n	NotFnd	0.74	*		376	484	3.98	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.74	*		376	484	3.98	Co-elute PCB 203
13C-PCB-202	3.14e+07	0.90	y	44:37	0.89	9230					92.3
13C-PCB-178	2.92e+07	1.06	y	42:09	0.78	9810					98.1
13C-PCB-138	3.84e+07	1.27	y	41:22	-	38.8					
PCB-195	*	*	n	NotFnd	0.78	*		987	1150	5.77	
PCB-194	*	*	n	NotFnd	0.87	*		987	1150	5.20	
PCB-205	*	*	n	NotFnd	1.07	*		987	1150	4.22	
13C-PCB-205	3.22e+07	0.91	y	49:56	1.20	9850					98.5
PCB-208	*	*	n	NotFnd	1.00	*		900	688	3.58	
13C-PCB-208	3.38e+07	0.79	y	48:59	1.39	8870					88.7
PCB-207	6.97e+04	1.33	y	49:18	1.09	22.7		-	-	*	
PCB-206	*	*	n	NotFnd	1.04	*		900	688	4.86	
13C-PCB-206	2.28e+07	0.79	y	51:06	0.97	8570					85.7
PCB-209	6.67e+04	1.12	y	52:17	1.06	19.8	J	-	-	*	
13C-PCB-209	3.19e+07	1.19	y	52:16	1.42	8180					81.8
13C-PCB-194	2.74e+07	0.93	y	49:40	-	42.0					

Analyst: _____ Date: 7/5/16

File:02JUL16Z #1-901 Acq: 2-JUL-2016 19:09:34 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:09967-003-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-901 Acq: 2-JUL-2016 19:09:34 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:09967-003-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-901 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
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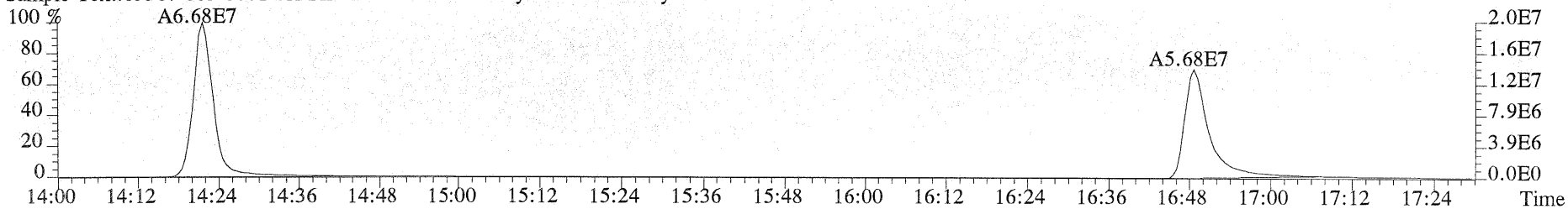
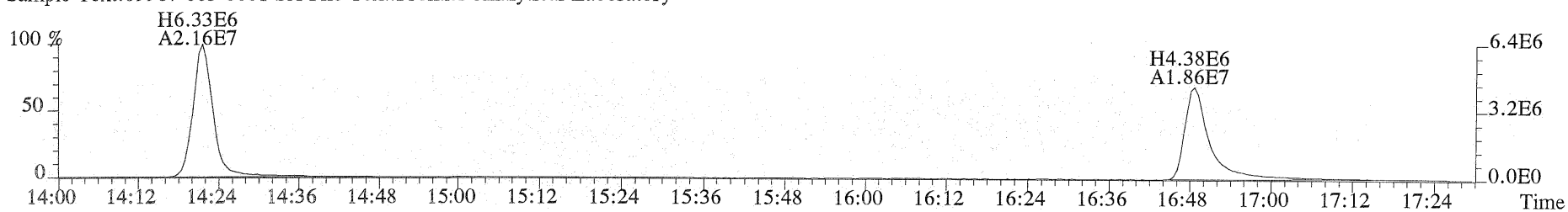
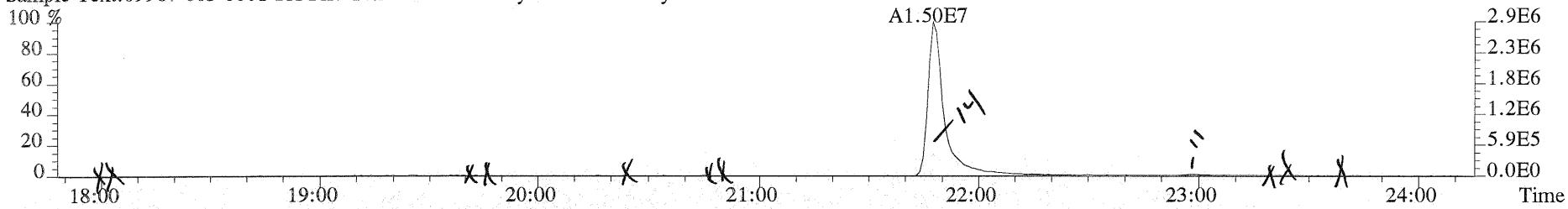
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



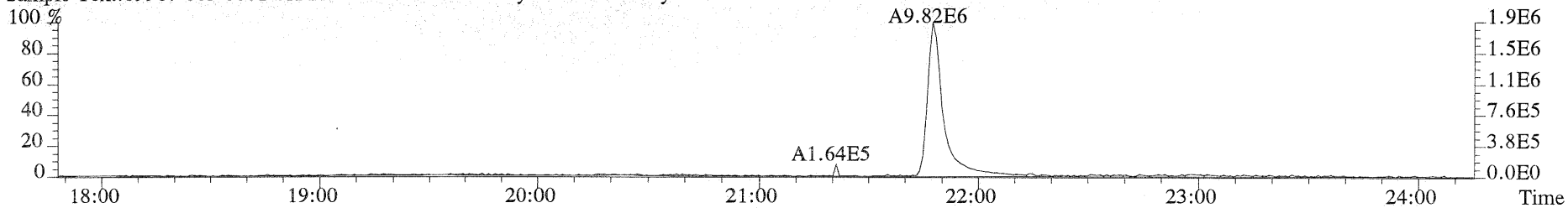
File:02JUL16Z #1-901 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



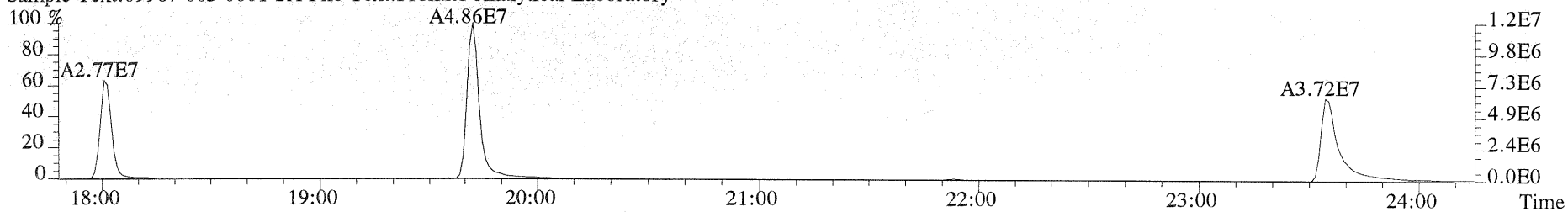
File:02JUL16Z #1-498 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



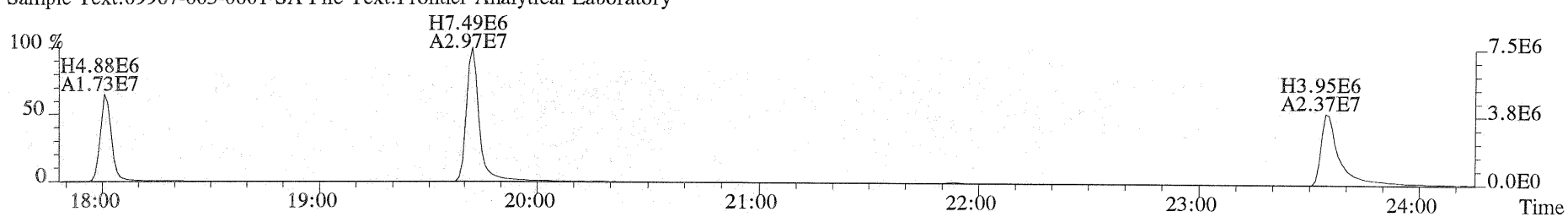
File:02JUL16Z #1-498 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



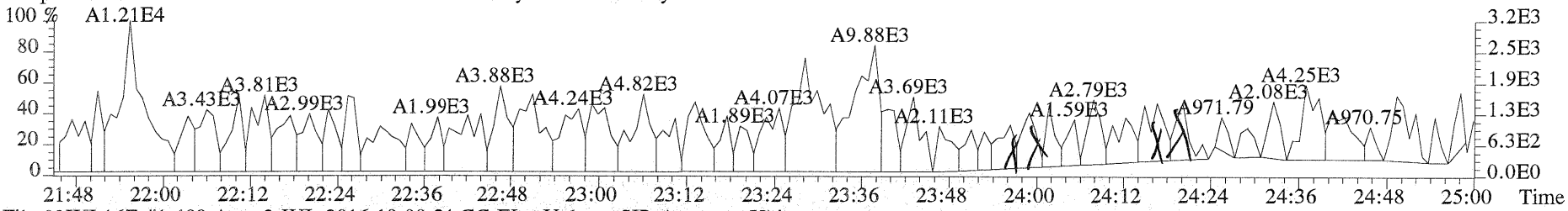
File:02JUL16Z #1-498 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



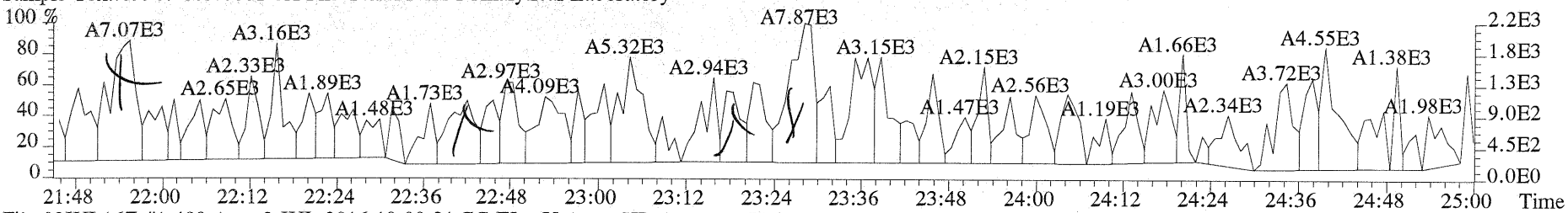
File:02JUL16Z #1-498 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



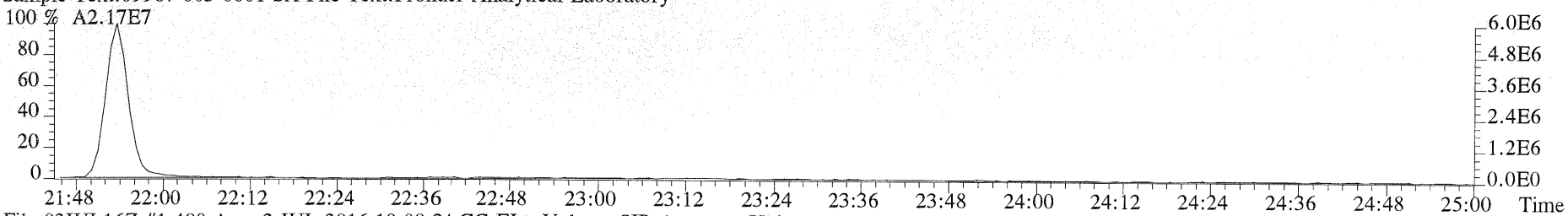
File:02JUL16Z #1-498 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



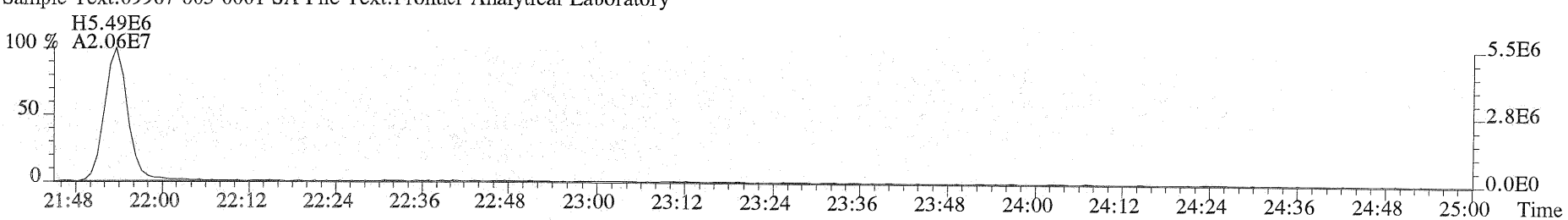
File:02JUL16Z #1-498 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



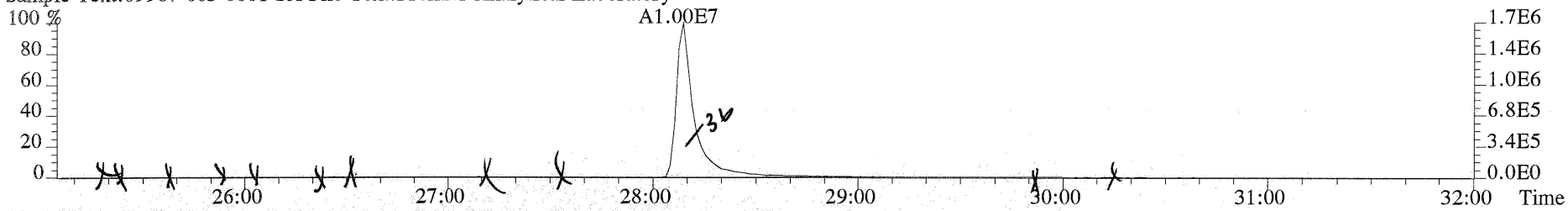
File:02JUL16Z #1-498 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



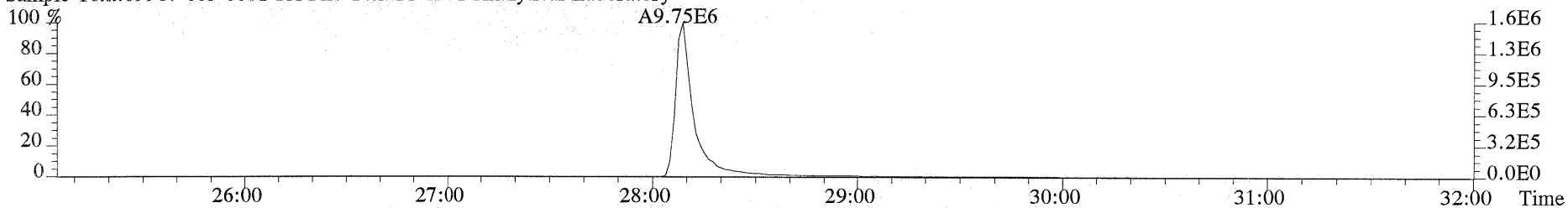
File:02JUL16Z #1-498 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



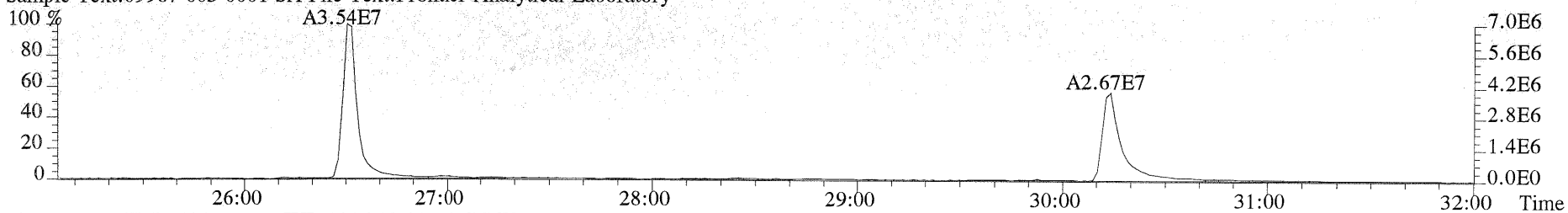
File:02JUL16Z #1-404 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



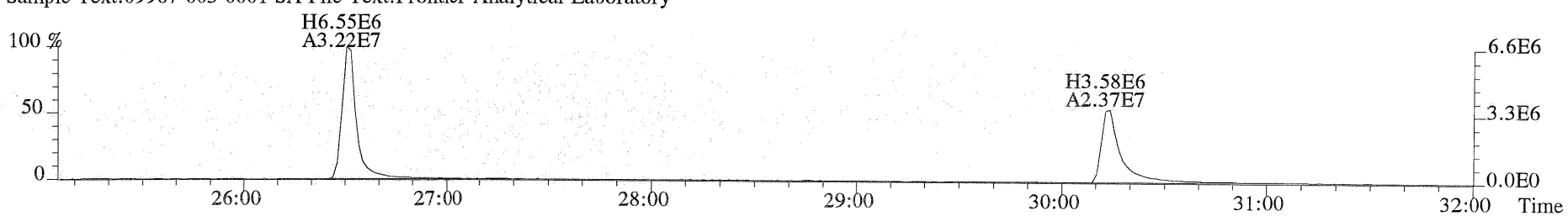
File:02JUL16Z #1-404 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



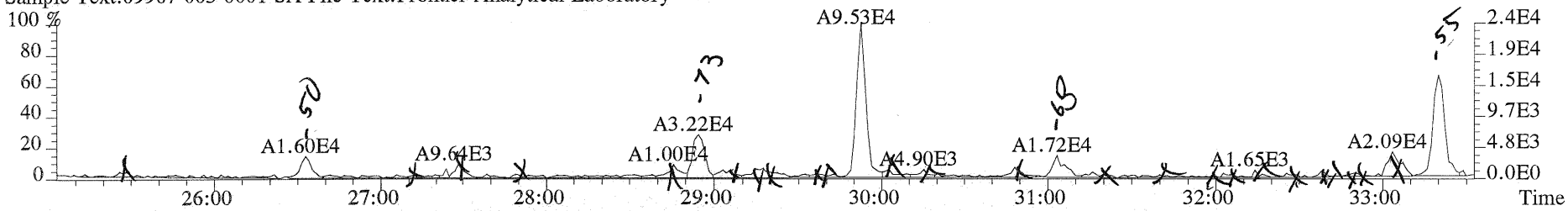
File:02JUL16Z #1-404 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



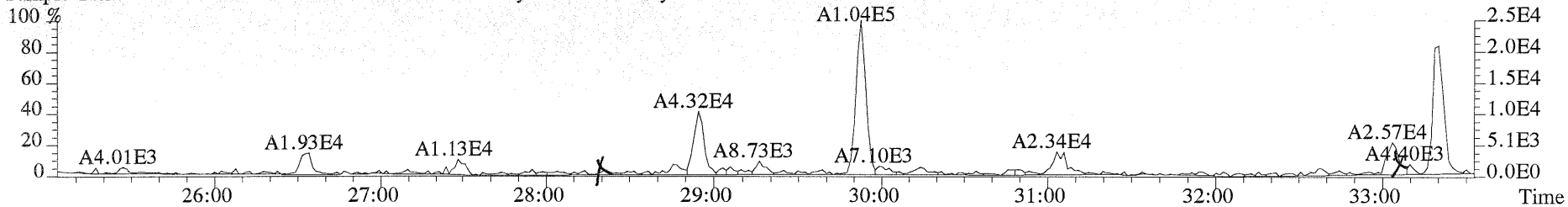
File:02JUL16Z #1-404 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



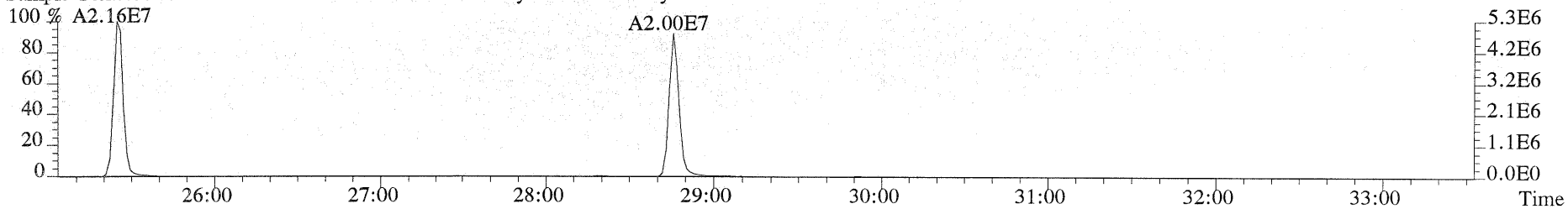
File:02JUL16Z #1-404 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



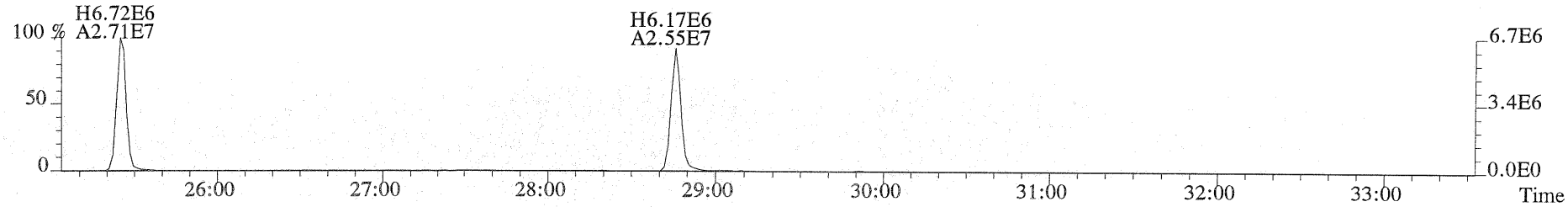
File:02JUL16Z #1-404 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



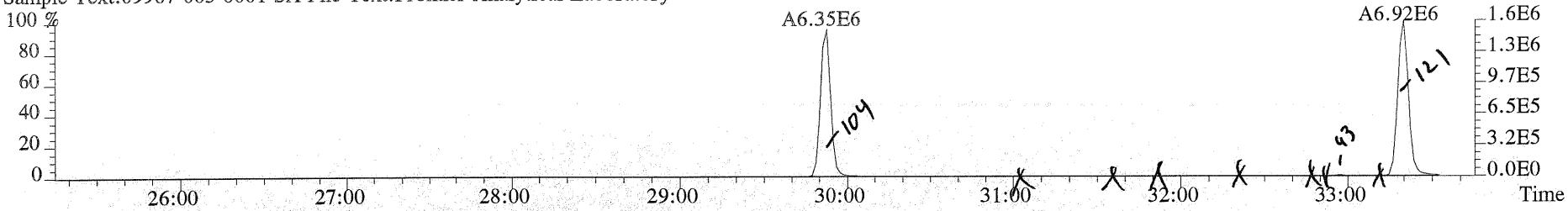
File:02JUL16Z #1-404 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



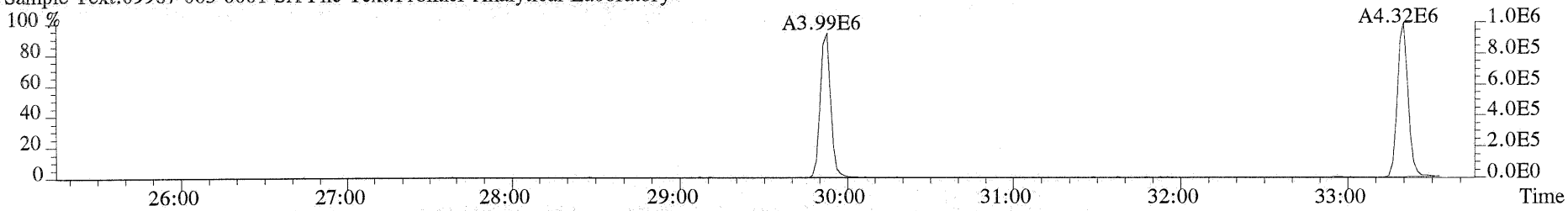
File:02JUL16Z #1-404 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



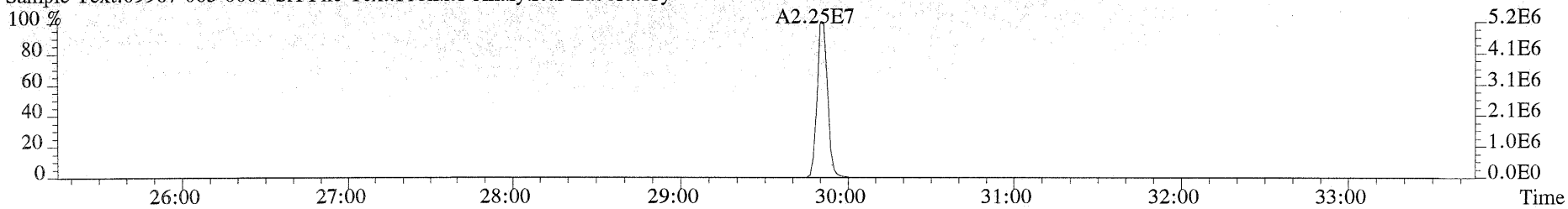
File:02JUL16Z #1-404 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



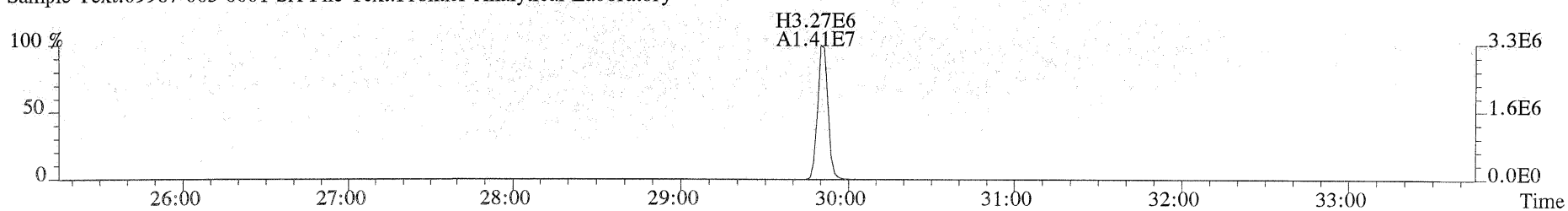
File:02JUL16Z #1-404 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



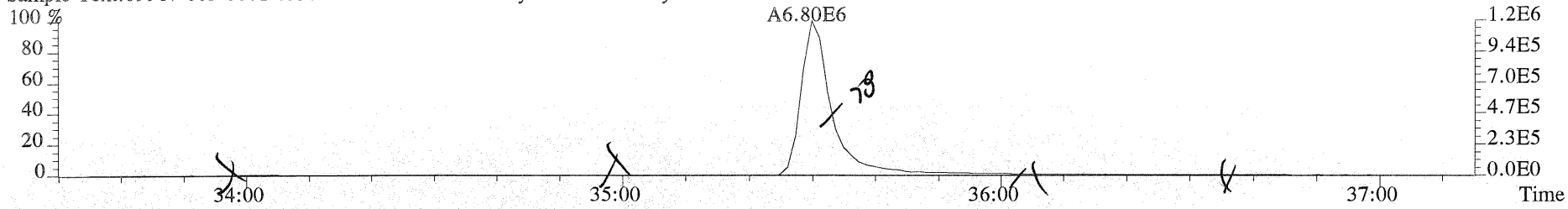
File:02JUL16Z #1-404 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



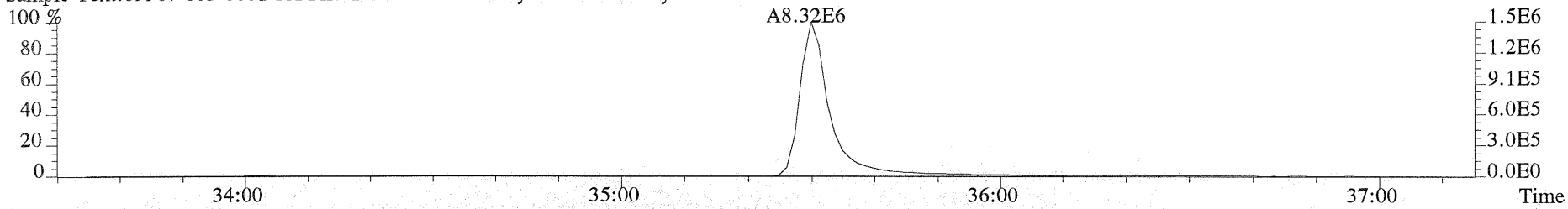
File:02JUL16Z #1-404 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



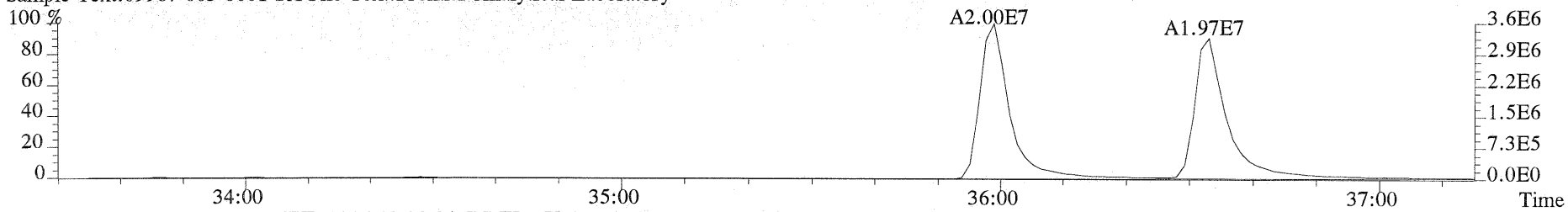
File:02JUL16Z #1-180 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



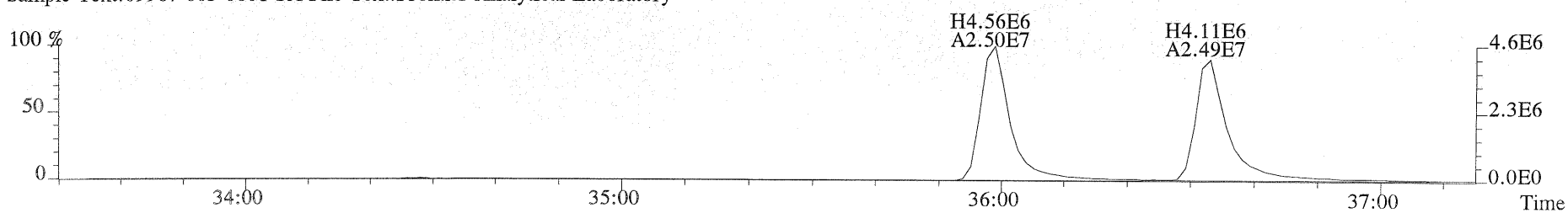
File:02JUL16Z #1-180 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



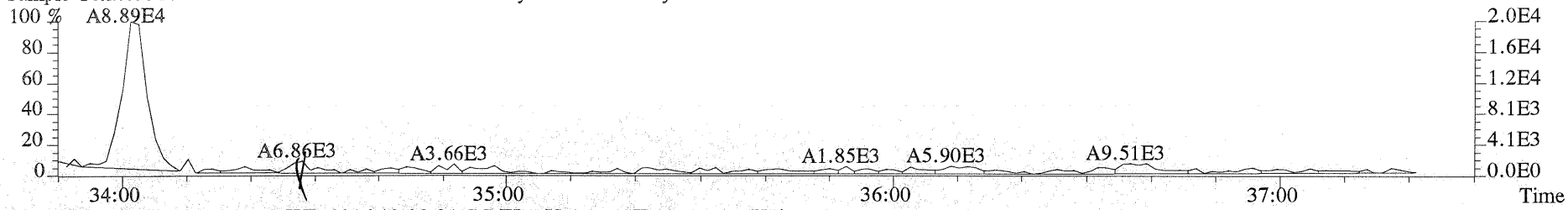
File:02JUL16Z #1-180 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



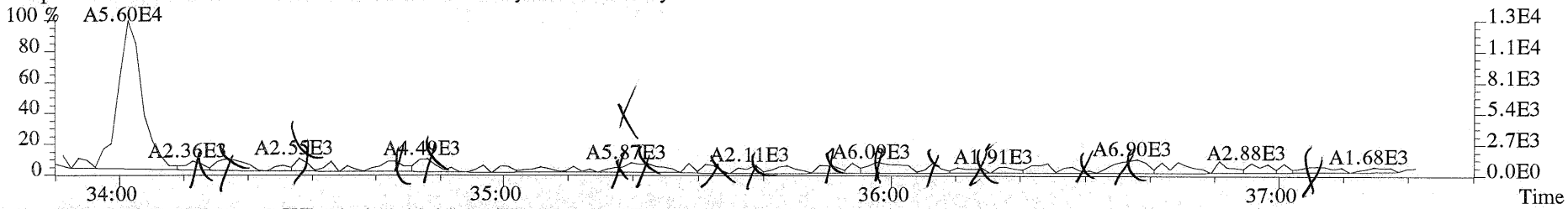
File:02JUL16Z #1-180 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



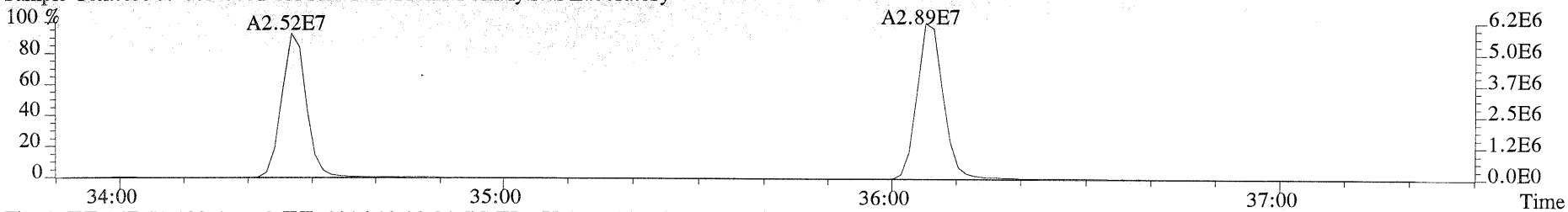
File:02JUL16Z #1-180 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



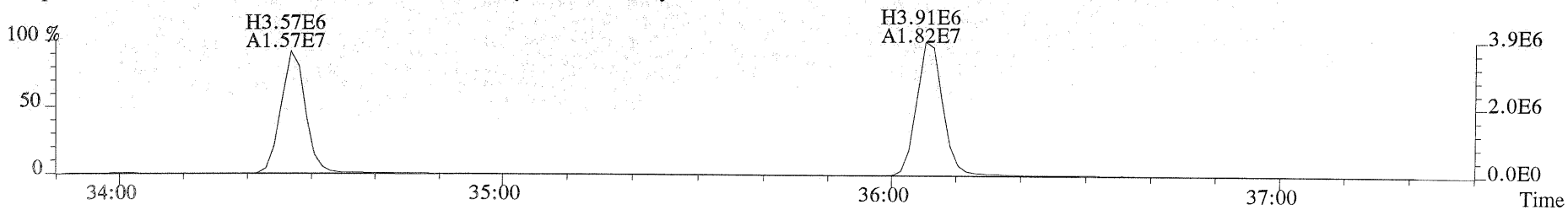
File:02JUL16Z #1-180 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



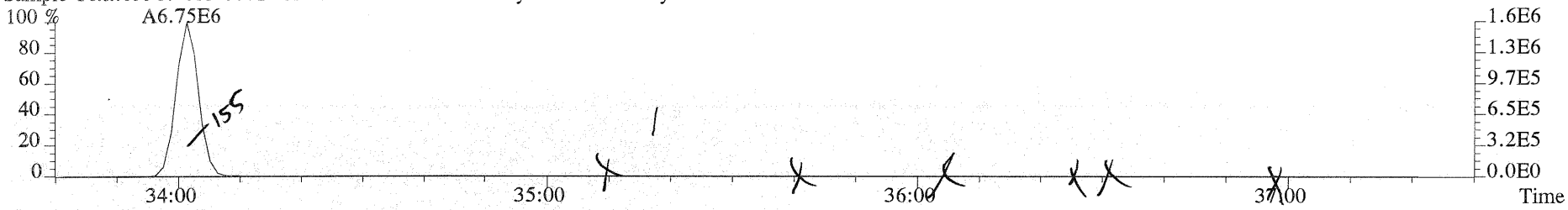
File:02JUL16Z #1-180 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



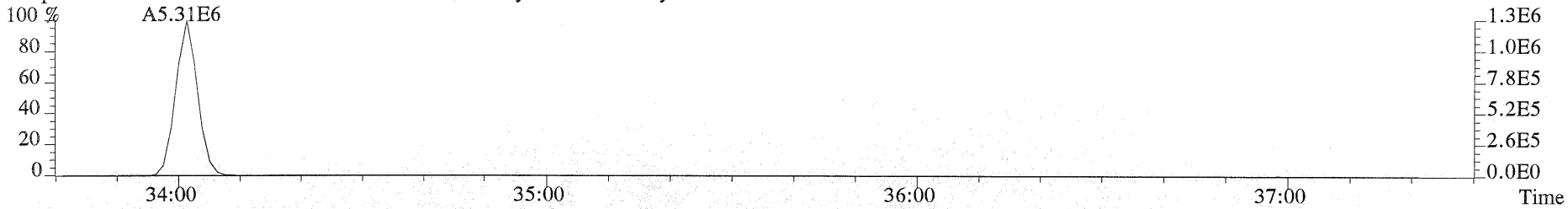
File:02JUL16Z #1-180 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



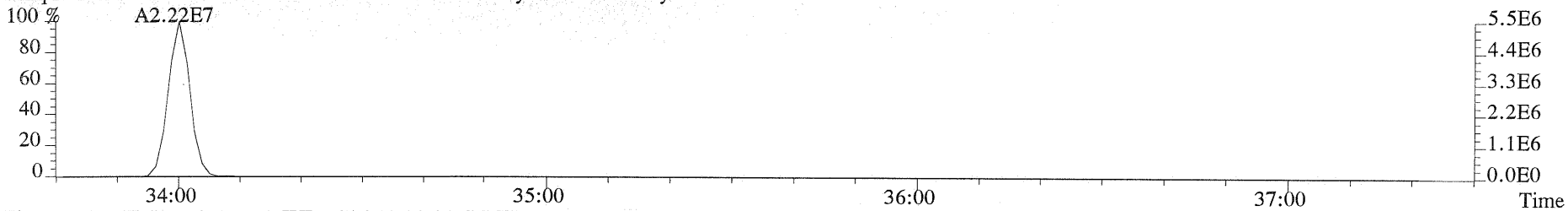
File:02JUL16Z #1-180 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



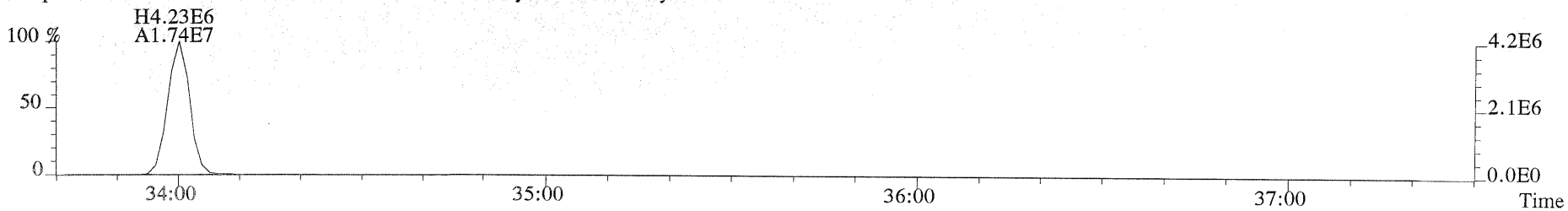
File:02JUL16Z #1-180 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



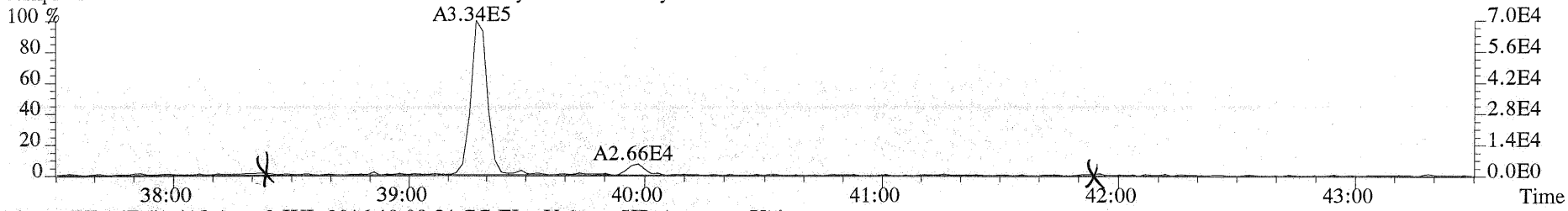
File:02JUL16Z #1-180 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



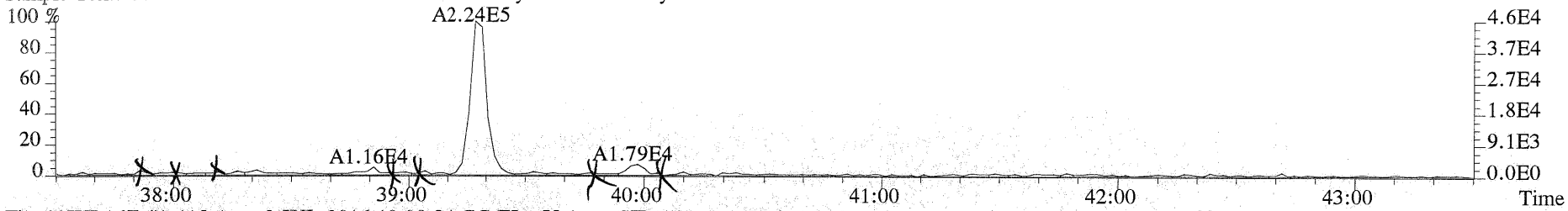
File:02JUL16Z #1-180 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



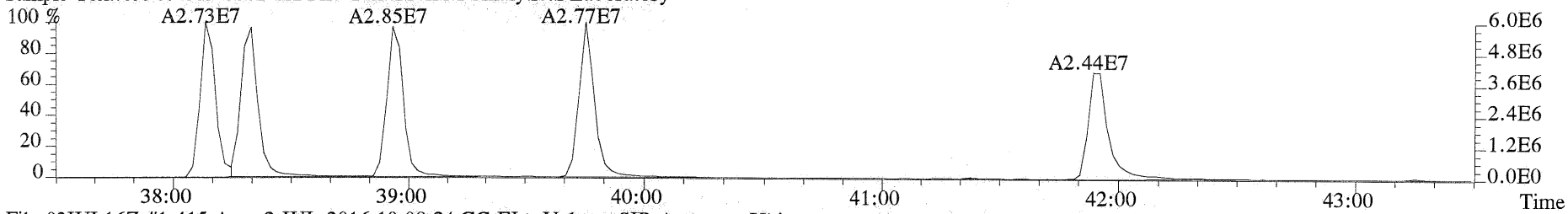
File:02JUL16Z #1-415 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



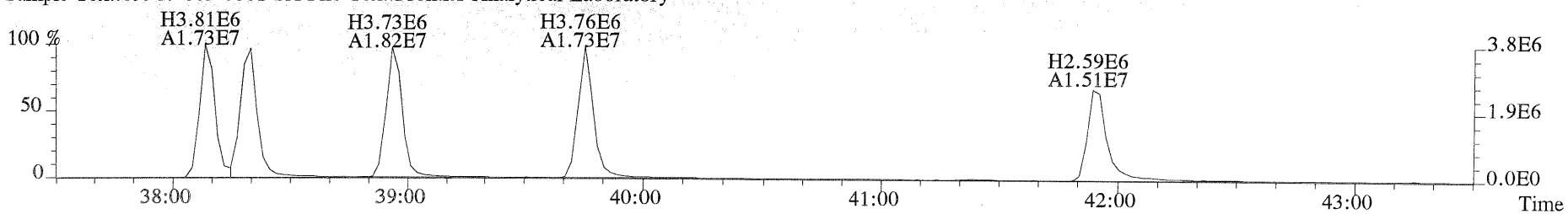
File:02JUL16Z #1-415 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



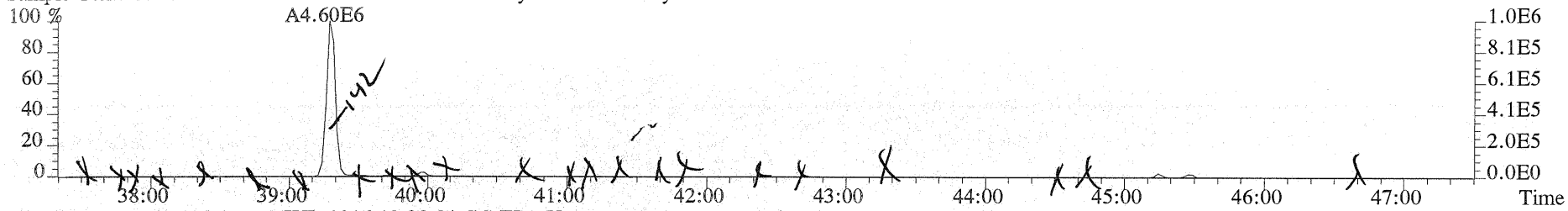
File:02JUL16Z #1-415 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



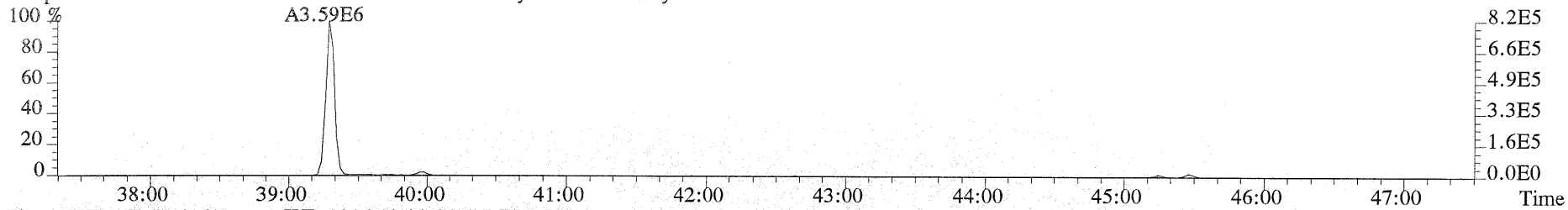
File:02JUL16Z #1-415 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



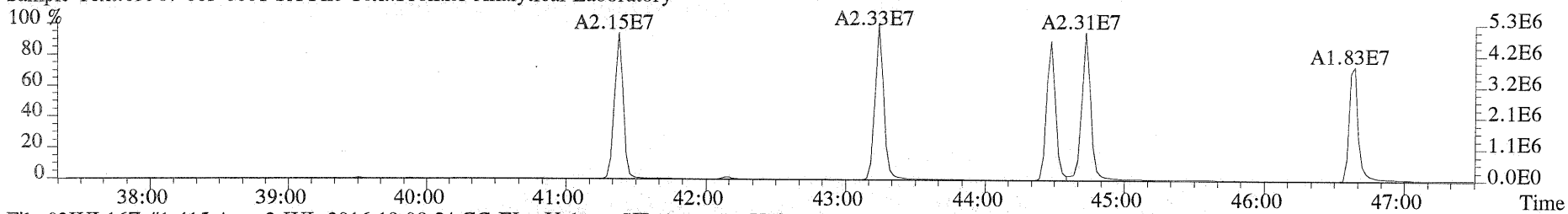
File:02JUL16Z #1-415 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



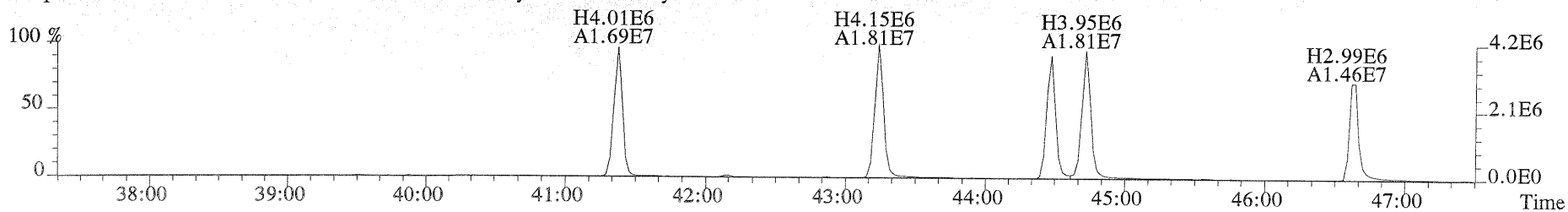
File:02JUL16Z #1-415 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



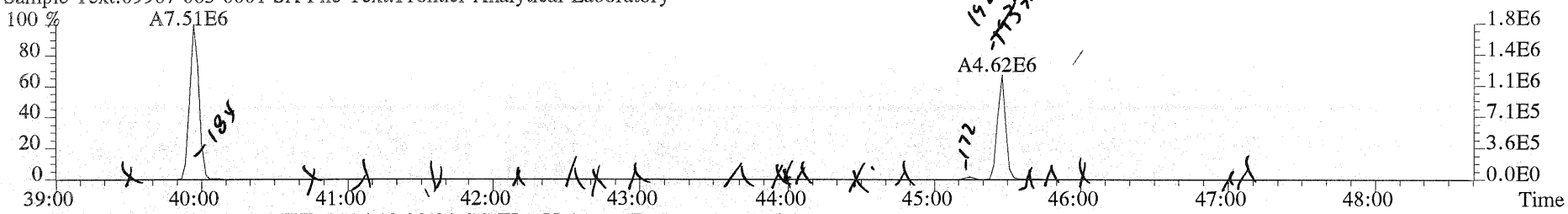
File:02JUL16Z #1-415 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



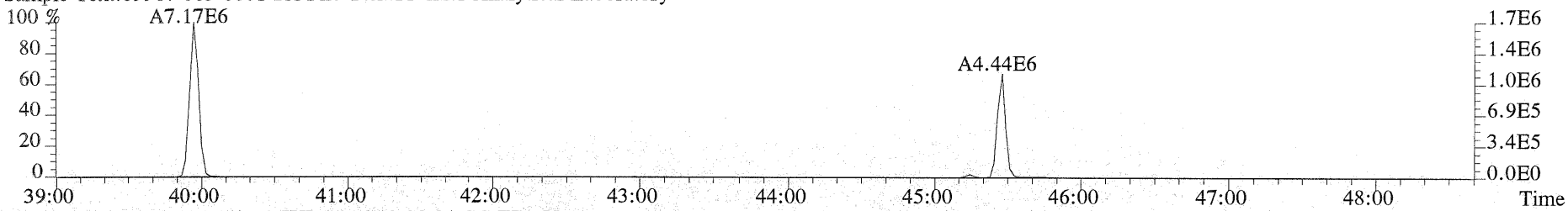
File:02JUL16Z #1-415 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



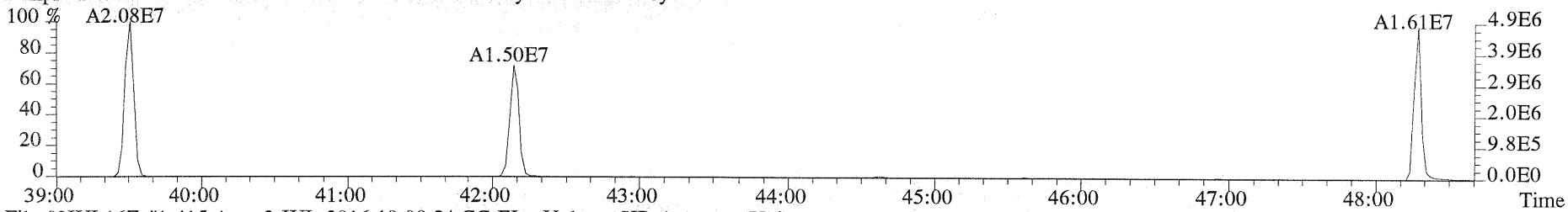
File:02JUL16Z #1-415 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



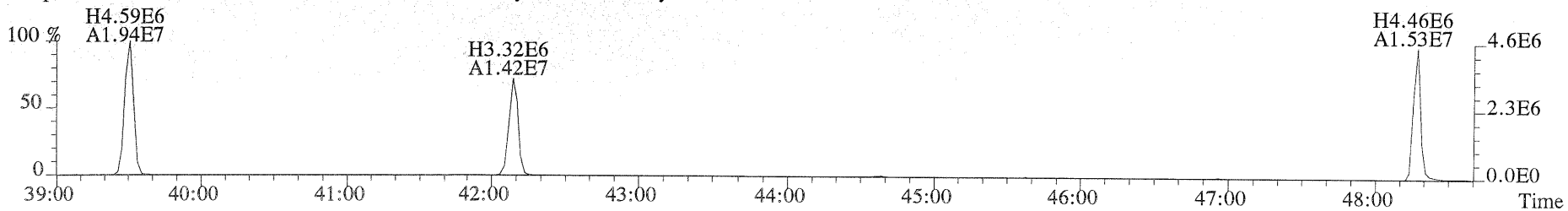
File:02JUL16Z #1-415 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



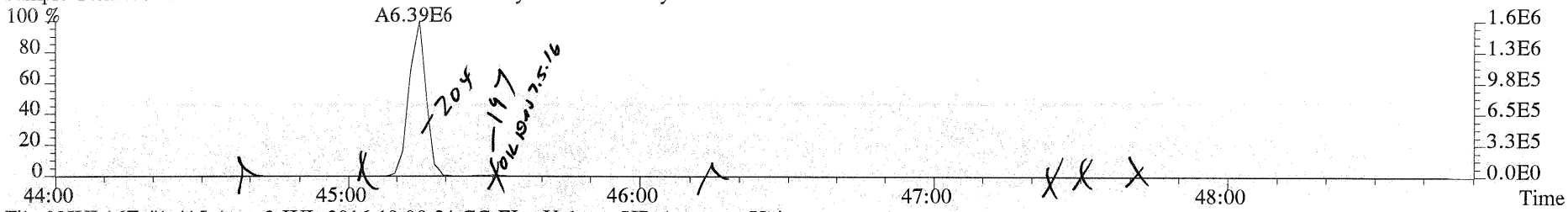
File:02JUL16Z #1-415 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory

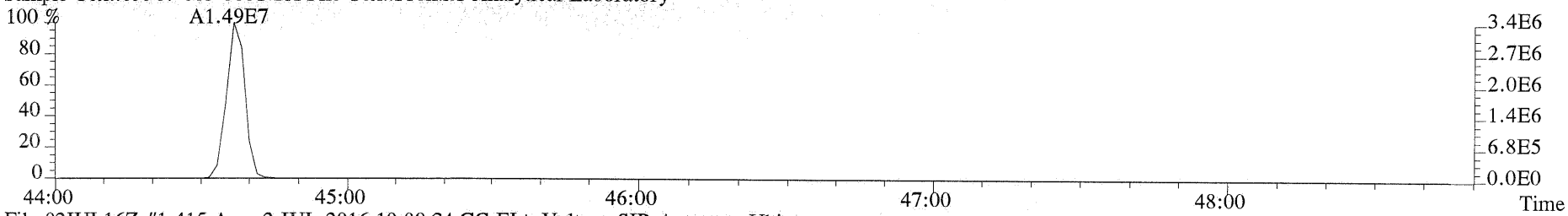


File:02JUL16Z #1-415 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory

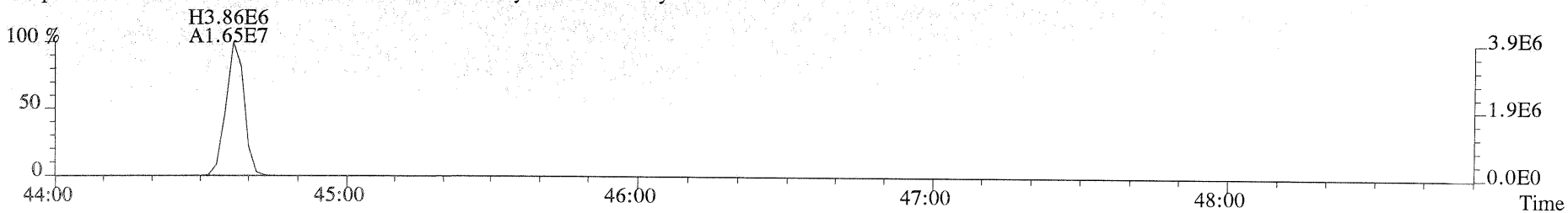


File:02JUL16Z #1-415 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory

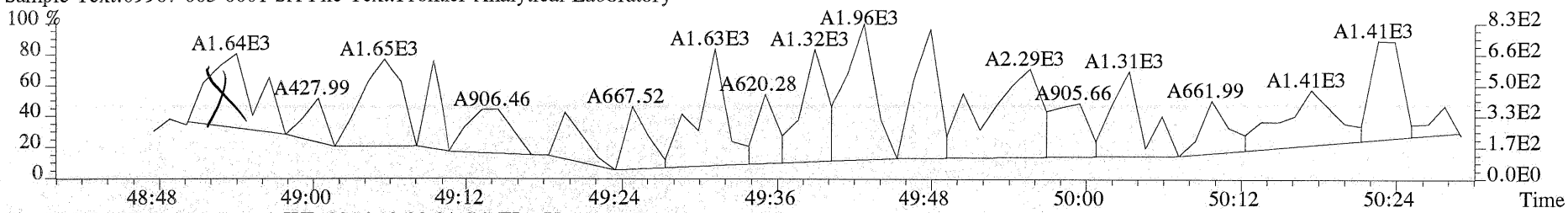
File:02JUL16Z #1-415 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



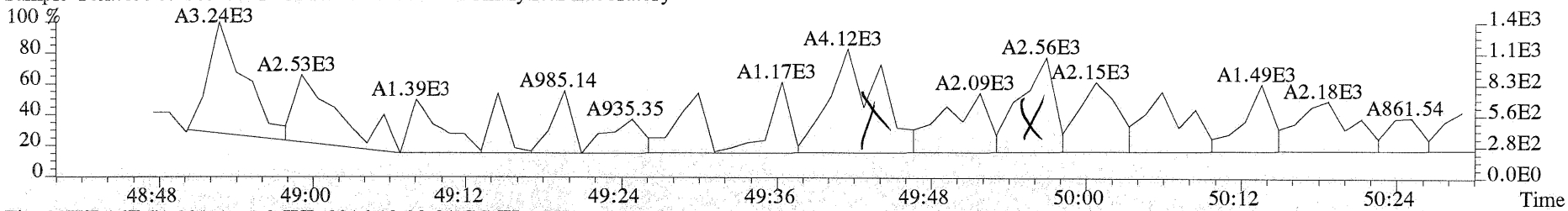
File:02JUL16Z #1-415 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



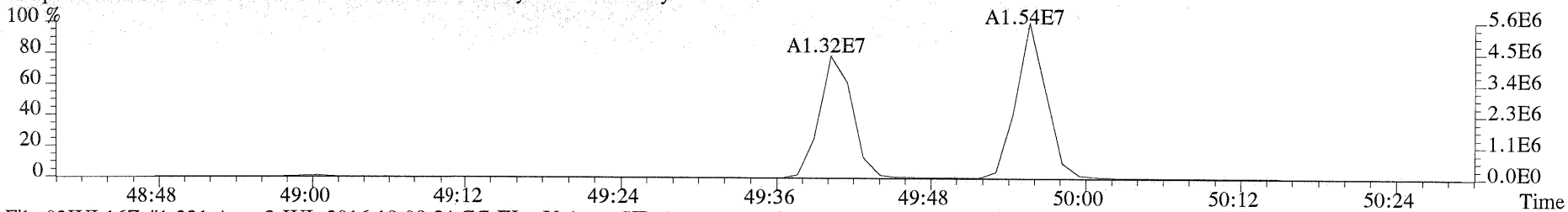
File:02JUL16Z #1-221 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



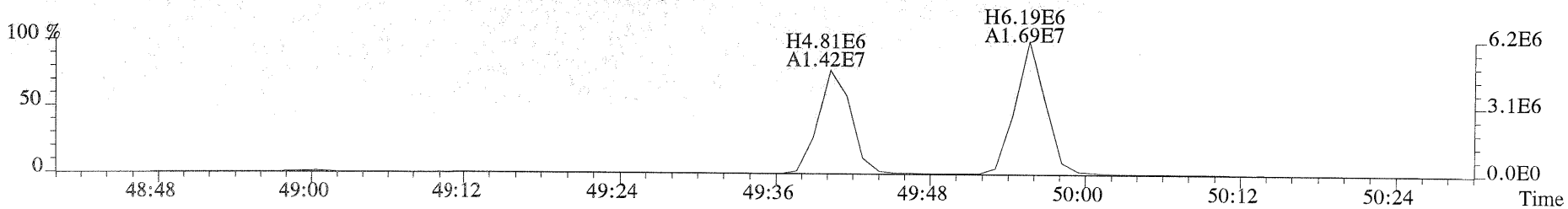
File:02JUL16Z #1-221 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



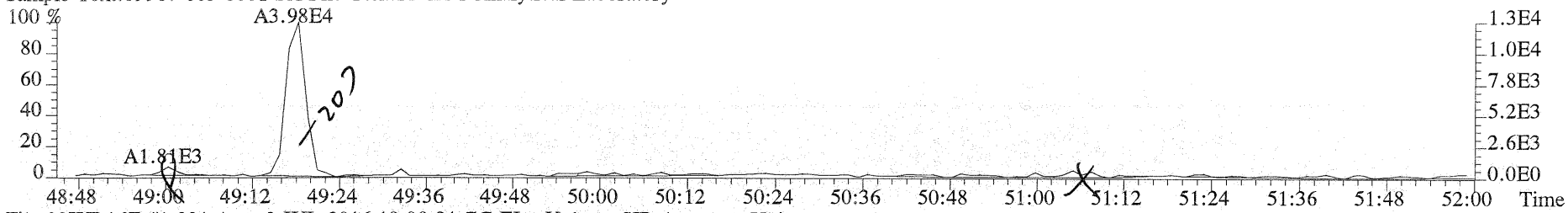
File:02JUL16Z #1-221 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



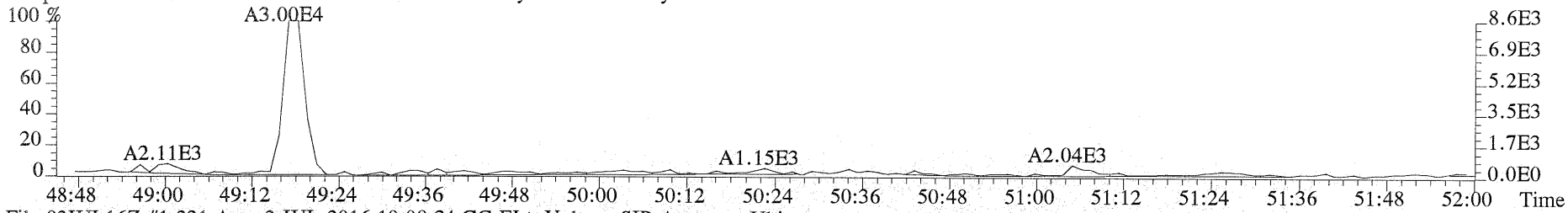
File:02JUL16Z #1-221 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



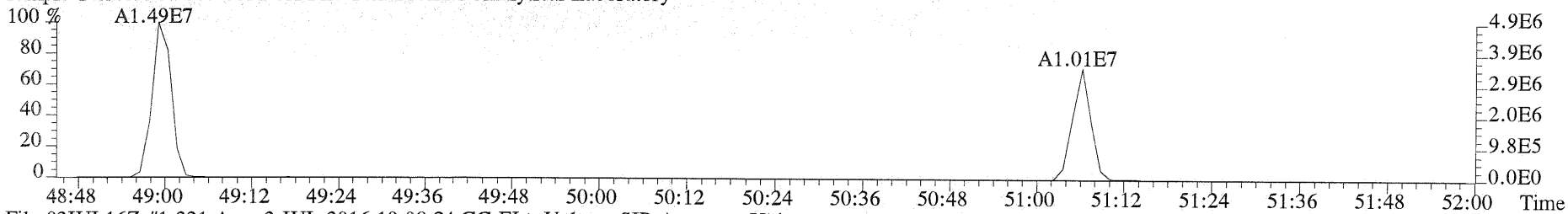
File:02JUL16Z #1-221 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



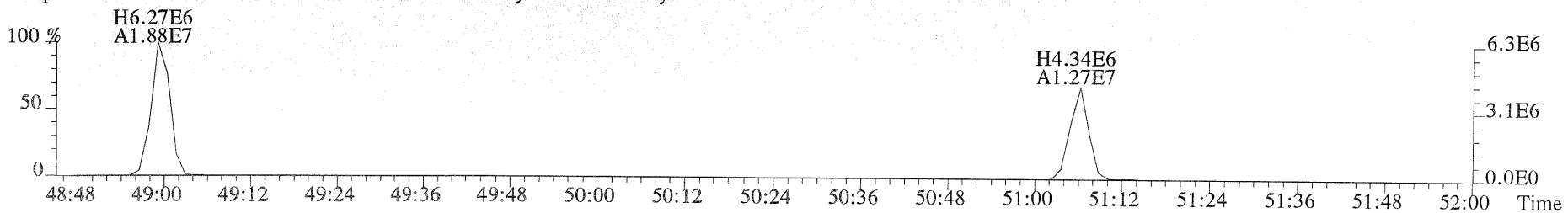
File:02JUL16Z #1-221 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



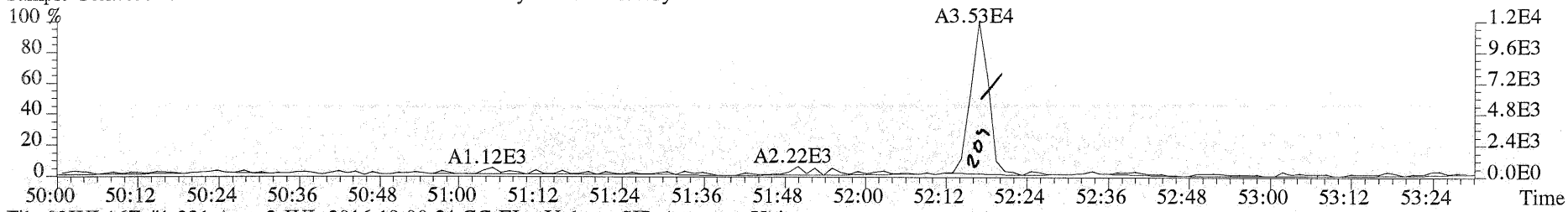
File:02JUL16Z #1-221 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



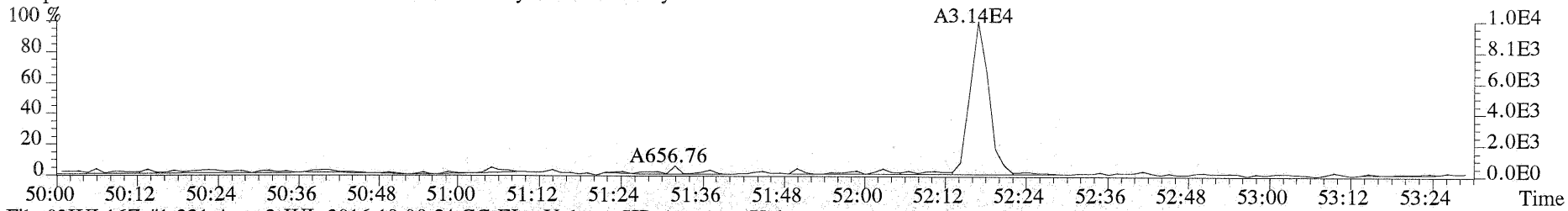
File:02JUL16Z #1-221 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



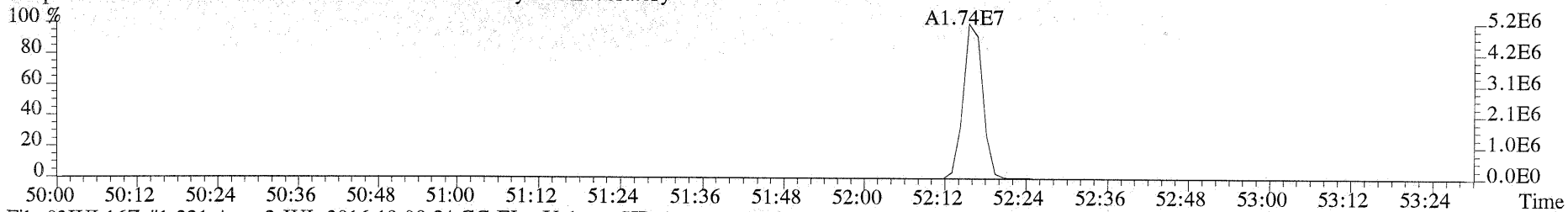
File:02JUL16Z #1-221 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



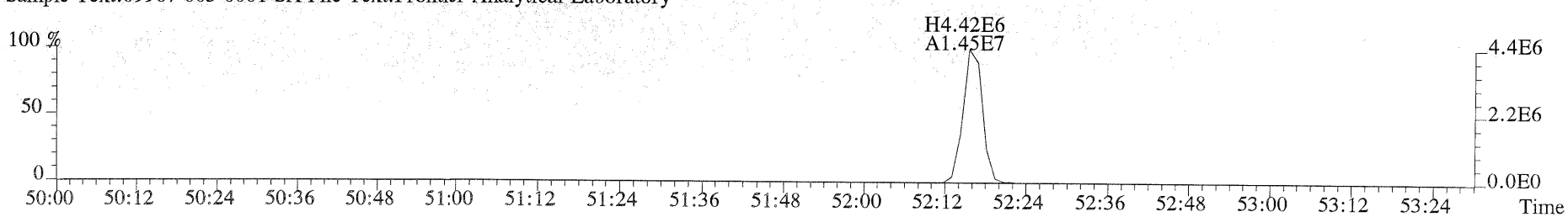
File:02JUL16Z #1-221 Acq: 2-JUL-2016 19:09:34 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-003-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 19:09:34 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:09967-003-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 19:09:34 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:09967-003-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 09967-004-0001-SA Filename: 02JUL16Z Sam:5 Acquired: 2-JUL-16 15:09:42 ICal: DAILY209FAL4-7-2-16
Client ID: LDW-CS-C4-S010-PW-MB ConCal: ST070216Z1 EndCal: ST070216Z2
Results: 9967 GC Column: DB1 Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	0.95	*		3820	2960	7.26	
13C-PCB-1	8.55e+07	3.18	y	14:21	1.24	8930					89.3
PCB-2	*	*	n	NotFnd	0.89	*		3820	2960	8.85	
PCB-3	*	*	n	NotFnd	0.99	*		3820	2960	9.11	
13C-PCB-3	7.48e+07	3.09	y	16:48	1.14	8520					85.2
PCB-4	*	*	n	NotFnd	1.18	*		2940	2190	8.34	
PCB-10	*	*	n	NotFnd	1.17	*		2940	2190	9.21	
13C-PCB-4	4.48e+07	1.59	y	18:01	0.59	9780					97.8
PCB-9	*	*	n	NotFnd	1.32	*		2940	2190	8.17	
PCB-7	*	*	n	NotFnd	1.35	*		2940	2190	7.97	
PCB-6	*	*	n	NotFnd	1.37	*		2940	2190	7.88	
PCB-8	*	*	n	NotFnd	1.30	*		2940	2190	8.26	
PCB-5	*	*	n	NotFnd	1.34	*		2940	2190	8.06	
PCB-14	*	*	n	NotFnd	1.27	*		2940	2190	8.47	
PCB-11	*	*	n	NotFnd	1.21	*		2940	2190	8.92	
PCB-13	*	*	n	NotFnd	1.14	*		2940	2190	9.46	
PCB-12	*	*	n	NotFnd	1.22	*		2940	2190	8.82	
PCB-15	*	*	n	NotFnd	1.15	*		2940	2190	9.99	
13C-PCB-15	6.01e+07	1.57	y	23:34	0.91	8520					85.2
PCB-19	*	*	n	NotFnd	1.06	*		1190	1200	4.93	
PCB-30	*	*	n	NotFnd	1.57	*		1190	1200	3.32	
PCB-18	*	*	n	NotFnd	1.02	*		1190	1200	5.10	
PCB-17	*	*	n	NotFnd	1.12	*		1190	1200	4.63	
PCB-27	*	*	n	NotFnd	1.49	*		1190	1200	3.49	
PCB-24	*	*	n	NotFnd	1.48	*		1190	1200	3.53	
PCB-16	*	*	n	NotFnd	1.16	*		1190	1200	4.51	
PCB-32	*	*	n	NotFnd	1.40	*		1190	1200	3.73	
13C-PCB-19	4.21e+07	1.07	y	21:54	0.59	9290					92.9
13C-PCB-9	7.73e+07	1.64	y	19:42	-	37.4					
PCB-34	*	*	n	NotFnd	1.12	*		1150	992	5.80	
PCB-23	*	*	n	NotFnd	1.13	*		1150	992	5.75	
PCB-29	*	*	n	NotFnd	1.15	*		1150	992	5.64	
PCB-26	*	*	n	NotFnd	1.16	*		1150	992	5.59	
PCB-25	*	*	n	NotFnd	1.28	*		1150	992	5.08	
PCB-31	*	*	n	NotFnd	1.09	*		1150	992	5.97	
PCB-28	*	*	n	NotFnd	1.38	*		1150	992	4.72	
PCB-20	*	*	n	NotFnd	1.19	*		1150	992	5.47	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.19	*		1150	992	5.47	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.19	*		1150	992	5.47	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.09	*		1150	992	5.99	
PCB-36	*	*	n	NotFnd	1.12	*		1150	992	5.80	
PCB-39	*	*	n	NotFnd	1.08	*		1150	992	6.02	
PCB-38	*	*	n	NotFnd	1.23	*		1150	992	5.31	
PCB-35	*	*	n	NotFnd	1.09	*		1150	992	5.97	
PCB-37	*	*	n	NotFnd	1.17	*		1150	992	5.55	
13C-PCB-37	5.08e+07	1.09	y	30:13	1.21	9080					90.8

FAL ID: 09967-004-0001-SA Filename: 02JUL16Z Sam:5 Acquired: 2-JUL-16 ICal: DAILY209FAL4-7-2-16
Client ID: LDW-CS-C4-S010-PW-MB ConCal: ST070216Z1 EndCal: ST070216Z2
Results: 9967 GC Column: DB1 Amount: 1.000

PCB-54	*	*	n	NotFnd	1.09	*	836	988	3.68	
PCB-50	*	*	n	NotFnd	0.86	*	836	988	4.69	
PCB-53	*	*	n	NotFnd	0.82	*	836	988	4.92	
PCB-51	*	*	n	NotFnd	0.80	*	836	988	5.01	
PCB-45	*	*	n	NotFnd	0.76	*	836	988	5.29	
PCB-46	*	*	n	NotFnd	0.70	*	836	988	5.77	
PCB-52	*	*	n	NotFnd	1.06	*	836	988	3.80	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	1.06	*	836	988	3.80	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.01	*	836	988	3.98	
PCB-43	*	*	n	NotFnd	0.85	*	836	988	4.70	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.85	*	836	988	4.70	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.98	*	836	988	4.11	
PCB-48	*	*	n	NotFnd	1.04	*	836	988	3.86	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	1.04	*	836	988	3.86	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.11	*	836	988	3.61	
PCB-62	*	*	n	NotFnd	0.98	*	836	988	4.10	
PCB-44	*	*	n	NotFnd	0.74	*	836	988	5.43	
PCB-42	*	*	n	NotFnd	0.98	*	836	988	4.10	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.98	*	836	988	4.10	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	1.07	*	836	988	3.74	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	1.07	*	836	988	3.74	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	1.07	*	836	988	3.74	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	1.07	*	836	988	3.74	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	1.13	*	836	988	3.55	
PCB-40	*	*	n	NotFnd	0.65	*	836	988	6.19	
PCB-57	*	*	n	NotFnd	1.12	*	836	988	3.59	
PCB-67	*	*	n	NotFnd	1.07	*	836	988	3.75	
PCB-58	*	*	n	NotFnd	1.07	*	836	988	3.76	
PCB-63	*	*	n	NotFnd	1.11	*	836	988	3.62	
PCB-74	*	*	n	NotFnd	1.14	*	836	988	3.53	
PCB-61	*	*	n	NotFnd	1.10	*	836	988	3.65	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	1.10	*	836	988	3.65	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.14	*	836	988	3.52	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.14	*	836	988	3.52	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.23	*	836	988	3.26	
PCB-55	*	*	n	NotFnd	1.08	*	836	988	3.71	
13C-PCB-54	4.65e+07	0.79	y	25:26	1.07	9380				93.8
PCB-104	*	*	n	NotFnd	1.23	*	792	1110	4.60	
PCB-96	*	*	n	NotFnd	1.15	*	792	1110	4.91	
PCB-103	*	*	n	NotFnd	0.96	*	792	1110	5.85	
PCB-100	*	*	n	NotFnd	0.91	*	792	1110	6.20	
PCB-94	*	*	n	NotFnd	0.76	*	792	1110	7.38	
PCB-98	*	*	n	NotFnd	0.99	*	792	1110	5.69	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.99	*	792	1110	5.69	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.82	*	792	1110	6.90	
PCB-93	*	*	n	NotFnd	0.76	*	792	1110	7.40	
PCB-88	*	*	n	NotFnd	0.87	*	792	1110	6.45	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.87	*	792	1110	6.45	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	1.05	*	792	1110	5.38	
13C-PCB-104	3.54e+07	1.58	y	29:51	0.81	9470				94.7
13C-PCB-28	6.83e+07	1.07	y	26:30	1.42	10400				104
13C-PCB-52	4.62e+07	0.79	y	28:46	-	37.1				

PCB-56	*	*	n	NotFnd	1.17	*	616	984	4.30	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.17	*	616	984	4.30	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.20	*	616	984	4.21	
PCB-78	1.15e+05	0.76	y	35:31	1.21	21.7	-	-	*	
PCB-81	*	*	n	NotFnd	1.27	*	616	984	3.85	
13C-PCB-81	4.38e+07	0.80	y	35:59	1.12	9560				95.6
PCB-77	*	*	n	NotFnd	1.14	*	616	984	4.54	
13C-PCB-77	4.42e+07	0.80	y	36:33	1.10	9810				98.1
PCB-155	5.75e+06	1.27	y	34:01	1.13	1310	-	-	*	
PCB-150	*	*	n	NotFnd	1.02	*	712	708	3.63	
PCB-152	*	*	n	NotFnd	1.05	*	712	708	3.51	
PCB-145	*	*	n	NotFnd	0.99	*	712	708	3.73	
PCB-136	*	*	n	NotFnd	1.01	*	712	708	3.67	
PCB-148	*	*	n	NotFnd	0.80	*	712	708	4.64	
PCB-154	*	*	n	NotFnd	0.89	*	712	708	4.16	
13C-PCB-155	3.87e+07	1.28	y	34:00	1.01	9380				93.8
13C-PCB-111	4.71e+07	1.58	y	36:05	1.13	10300				103
13C-PCB-101	4.08e+07	1.59	y	34:27	-	37.9				
PCB-84	*	*	n	NotFnd	0.80	*	1090	1290	7.98	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.80	*	1090	1290	7.98	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.78	*	1090	1290	8.09	
PCB-90	*	*	n	NotFnd	0.87	*	1090	1290	7.29	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.87	*	1090	1290	7.29	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.07	*	1090	1290	5.93	
PCB-99	*	*	n	NotFnd	0.90	*	1090	1290	7.07	
PCB-119	*	*	n	NotFnd	1.16	*	1090	1290	5.50	
PCB-83	*	*	n	NotFnd	0.93	*	1090	1290	6.80	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.93	*	1090	1290	6.80	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.05	*	1090	1290	6.07	
PCB-97	*	*	n	NotFnd	0.90	*	1090	1290	7.07	
PCB-86	*	*	n	NotFnd	0.71	*	1090	1290	9.00	
PCB-125	*	*	n	NotFnd	1.06	*	1090	1290	6.01	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	1.06	*	1090	1290	6.01	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	1.06	*	1090	1290	6.01	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.20	*	1090	1290	5.29	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.20	*	1090	1290	5.29	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.99	*	1090	1290	6.42	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.99	*	1090	1290	6.42	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.19	*	1090	1290	5.33	
PCB-110	*	*	n	NotFnd	1.18	*	1090	1290	5.39	
PCB-82	*	*	n	NotFnd	0.69	*	1090	1290	9.26	
PCB-124	*	*	n	NotFnd	1.12	*	852	1000	4.40	
PCB-108	*	*	n	NotFnd	1.01	*	852	1000	4.86	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.01	*	852	1000	4.86	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.15	*	852	1000	4.27	
13C-PCB-123	4.22e+07	1.58	y	38:08	1.10	10100				101
PCB-118	*	*	n	NotFnd	1.02	*	852	1000	4.87	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.02	*	852	1000	4.87	Co-elute PCB 118
13C-PCB-118	4.51e+07	1.57	y	38:20	1.16	10200				102
PCB-114	*	*	n	NotFnd	1.06	*	852	1000	4.60	
13C-PCB-114	4.52e+07	1.58	y	38:56	1.13	10500				105
PCB-122	*	*	n	NotFnd	1.18	*	852	1000	4.18	
PCB-105	*	*	n	NotFnd	1.13	*	852	1000	4.40	
13C-PCB-105	4.29e+07	1.60	y	39:45	1.13	9990				99.9

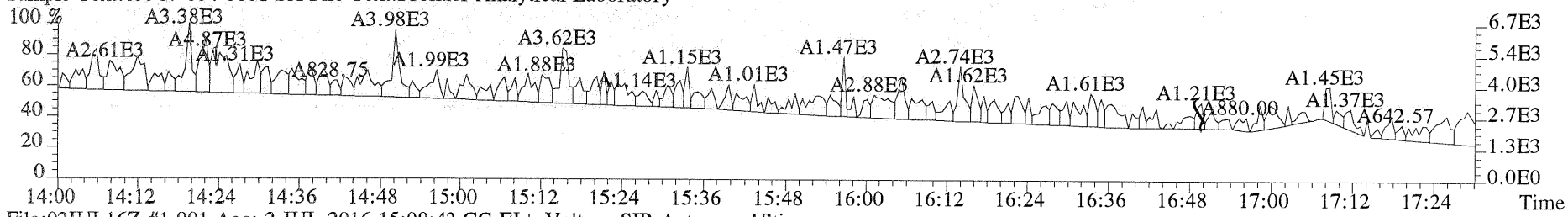
PCB-127	*	*	n	NotFnd	1.04	*		852	1000	4.76	
PCB-126	*	*	n	NotFnd	1.16	*		852	1000	5.79	
13C-PCB-126	3.79e+07	1.59	y	41:54	0.98	10200					102
PCB-151	*	*	n	NotFnd	0.88	*		808	732	5.22	
PCB-135	*	*	n	NotFnd	0.86	*		808	732	5.38	
PCB-144	*	*	n	NotFnd	0.94	*		808	732	4.91	
PCB-147	*	*	n	NotFnd	0.97	*		808	732	4.73	
PCB-139	*	*	n	NotFnd	0.95	*		808	732	4.84	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	0.95	*		808	732	4.84	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.93	*		808	732	4.93	
PCB-143	*	*	n	NotFnd	0.89	*		808	732	5.15	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.89	*		808	732	5.15	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.90	*		808	732	5.12	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.90	*		808	732	5.12	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.83	*		808	732	5.59	
PCB-165	*	*	n	NotFnd	1.08	*		808	732	4.26	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.08	*		808	732	4.26	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	1.01	*		808	732	4.56	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	1.01	*		808	732	4.56	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	1.10	*		808	732	4.19	
PCB-168	*	*	n	NotFnd	1.15	*		808	732	4.00	
PCB-141	*	*	n	NotFnd	0.91	*		808	732	5.04	
PCB-137	*	*	n	NotFnd	0.85	*		808	732	5.43	
PCB-130	*	*	n	NotFnd	0.83	*		808	732	5.57	
PCB-138	*	*	n	NotFnd	1.17	*		808	732	3.92	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.17	*		808	732	3.92	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.17	*		808	732	3.92	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.17	*		808	732	3.93	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.17	*		808	732	3.93	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.77	*		808	732	6.01	
PCB-166	*	*	n	NotFnd	1.13	*		808	732	4.08	
PCB-159	*	*	n	NotFnd	1.21	*		808	732	3.79	
PCB-128	*	*	n	NotFnd	0.95	*		808	732	4.87	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	0.95	*		808	732	4.87	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	1.04	*		808	732	4.19	
13C-PCB-167	3.97e+07	1.26	y	43:14	1.04	10100					101
PCB-156	*	*	n	NotFnd	1.09	*		808	732	4.30	
13C-PCB-156	3.75e+07	1.27	y	44:28	1.01	9720					97.2
PCB-157	*	*	n	NotFnd	1.00	*		808	732	4.36	
13C-PCB-157	3.92e+07	1.27	y	44:43	1.03	10000					100
PCB-169	*	*	n	NotFnd	1.02	*		808	732	5.07	
13C-PCB-169	3.23e+07	1.25	y	46:37	0.89	9560					95.6

FAL ID: 09967-004-0001-SA Filename: 02JUL16Z Sam:5 Acquired: 2-JUL-16 15:09:42 ICal: DAILY209FAL4-7-2-16
Client ID: LDW-CS-C4-S010-PW-MB ConCal: ST070216Z1 EndCal: ST070216Z2
Results: 9967 GC Column: DB1 Amount: 1.000

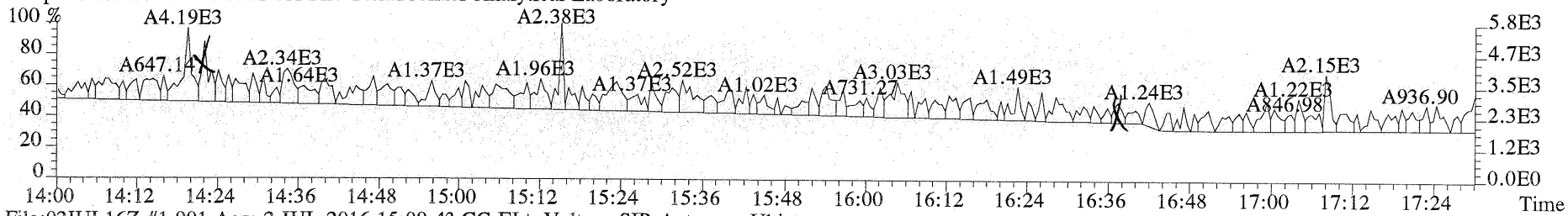
PCB-188	*	*	n	NotFnd	1.16	*		1500	1200	6.26	
13C-PCB-188	3.92e+07	1.07	y	39:31	1.12	9190					91.9
PCB-184	6.13e+04	0.96	y	39:57	1.27	13.9	J	-	-	*	
PCB-179	*	*	n	NotFnd	1.27	*		1500	1200	6.05	
PCB-176	*	*	n	NotFnd	1.24	*		1500	1200	6.17	
PCB-186	*	*	n	NotFnd	1.19	*		1500	1200	6.41	
PCB-178	*	*	n	NotFnd	0.90	*		1500	1200	8.49	
PCB-175	*	*	n	NotFnd	0.93	*		1500	1200	8.25	
PCB-187	*	*	n	NotFnd	0.98	*		1500	1200	7.83	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.98	*		1500	1200	7.83	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.99	*		1500	1200	7.72	
PCB-185	*	*	n	NotFnd	0.87	*		1500	1200	8.79	
PCB-174	*	*	n	NotFnd	0.95	*		1500	1200	8.07	
PCB-181	*	*	n	NotFnd	0.81	*		1500	1200	9.42	
PCB-177	*	*	n	NotFnd	0.84	*		1500	1200	9.07	
PCB-171	*	*	n	NotFnd	0.89	*		1500	1200	8.57	
PCB-173	*	*	n	NotFnd	0.79	*		1500	1200	9.70	
PCB-172	*	*	n	NotFnd	0.83	*		1500	1200	9.18	
PCB-192	*	*	n	NotFnd	1.06	*		1500	1200	7.21	
PCB-180	*	*	n	NotFnd	0.98	*		1500	1200	7.84	
PCB-193	*	*	n	NotFnd	1.15	*		1500	1200	6.66	
PCB-191	*	*	n	NotFnd	1.12	*		1500	1200	6.85	
PCB-170	*	*	n	NotFnd	0.77	*		1500	1200	9.92	
PCB-190	*	*	n	NotFnd	1.06	*		1500	1200	7.23	
PCB-189	*	*	n	NotFnd	1.15	*		1500	1200	7.06	
13C-PCB-189	3.06e+07	1.06	y	48:17	0.86	9310					93.1
PCB-202	*	*	n	NotFnd	0.98	*		636	808	4.77	
PCB-201	*	*	n	NotFnd	1.03	*		636	808	4.55	
PCB-204	3.70e+04	0.99	y	45:15	1.00	11.9	J	-	-	*	
PCB-197	*	*	n	NotFnd	1.00	*		636	808	4.67	
PCB-200	*	*	n	NotFnd	1.00	*		636	808	4.68	
PCB-198	*	*	n	NotFnd	0.71	*		636	808	6.56	
PCB-199	*	*	n	NotFnd	0.67	*		636	808	6.98	
PCB-203	*	*	n	NotFnd	0.74	*		636	808	6.29	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.74	*		636	808	6.29	Co-elute PCB 203
13C-PCB-202	3.10e+07	0.91	y	44:37	0.89	9200					92.0
13C-PCB-178	3.00e+07	1.05	y	42:09	0.78	10200					102
13C-PCB-138	3.80e+07	1.26	y	41:22	-	38.5					
PCB-195	*	*	n	NotFnd	0.78	*		1040	1160	6.29	
PCB-194	*	*	n	NotFnd	0.87	*		1040	1160	5.67	
PCB-205	*	*	n	NotFnd	1.07	*		1040	1160	4.61	
13C-PCB-205	3.08e+07	0.92	y	49:56	1.20	9660					96.6
PCB-208	*	*	n	NotFnd	1.00	*		1260	1090	5.13	
13C-PCB-208	3.22e+07	0.78	y	48:59	1.39	8700					87.0
PCB-207	*	*	n	NotFnd	1.09	*		1260	1090	5.66	
PCB-206	*	*	n	NotFnd	1.04	*		1260	1090	7.36	
13C-PCB-206	2.23e+07	0.80	y	51:06	0.97	8620					86.2
PCB-209	*	*	n	NotFnd	1.06	*		1050	1210	5.58	
13C-PCB-209	3.16e+07	1.20	y	52:16	1.42	8310					83.1
13C-PCB-194	2.67e+07	0.93	y	49:40	-	40.9					

Analyst: [illegible] Date: 7/5/16

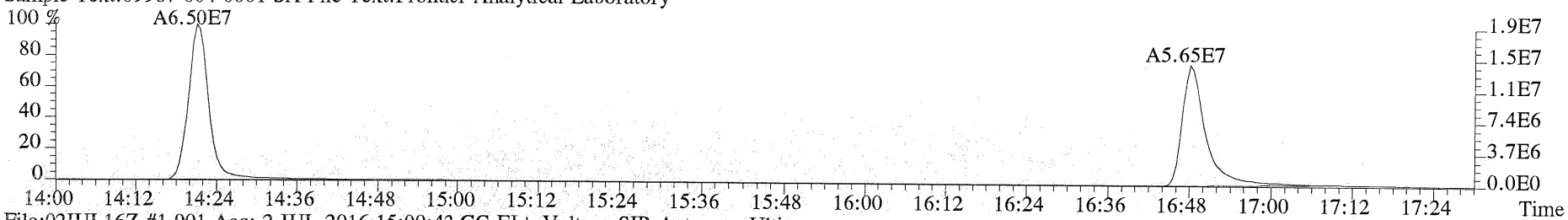
File:02JUL16Z #1-901 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



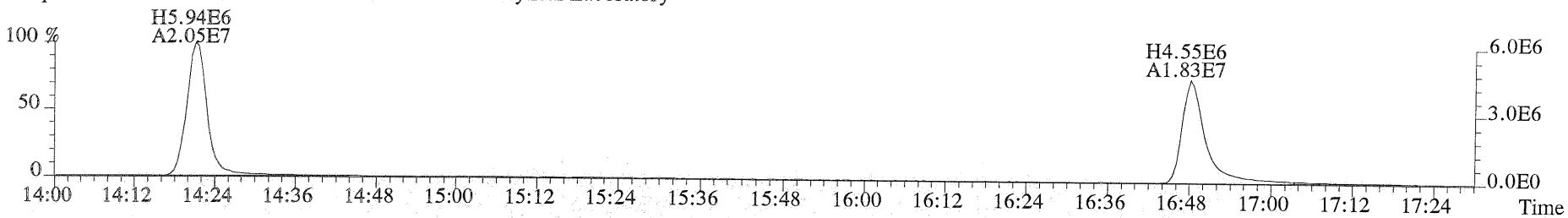
File:02JUL16Z #1-901 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



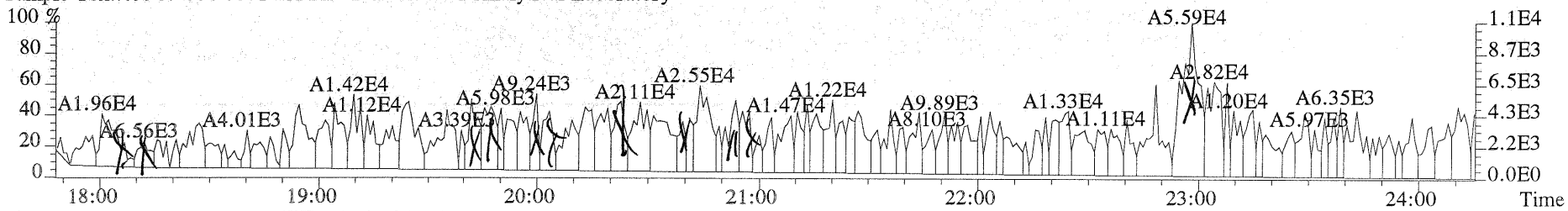
File:02JUL16Z #1-901 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



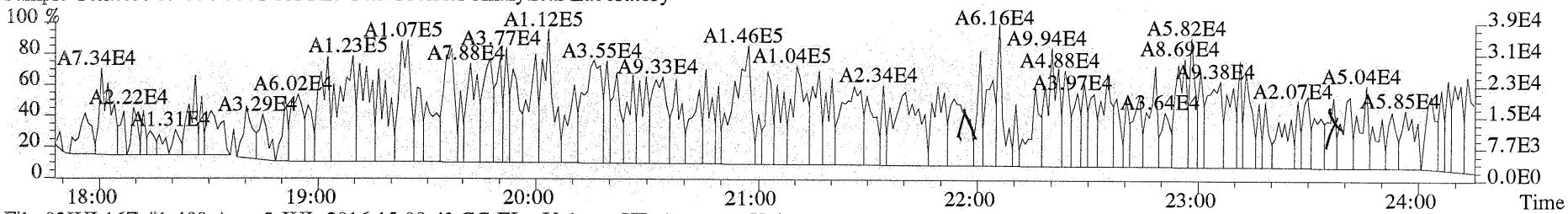
File:02JUL16Z #1-901 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



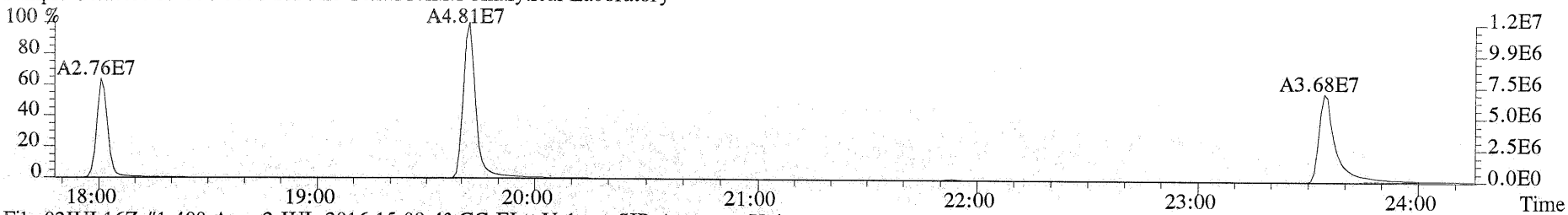
File:02JUL16Z #1-498 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



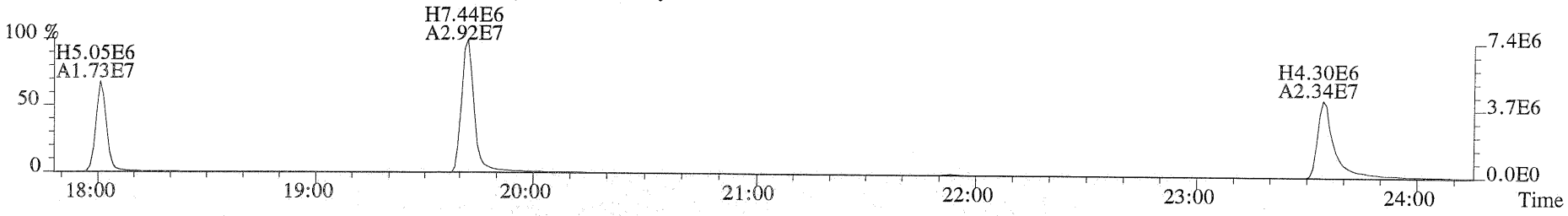
File:02JUL16Z #1-498 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



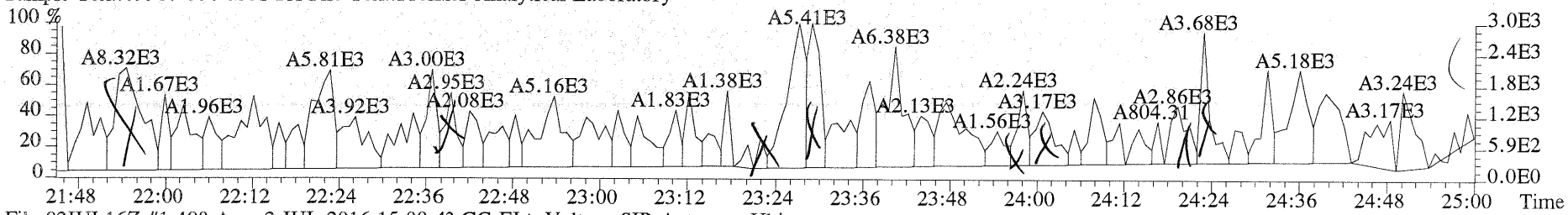
File:02JUL16Z #1-498 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



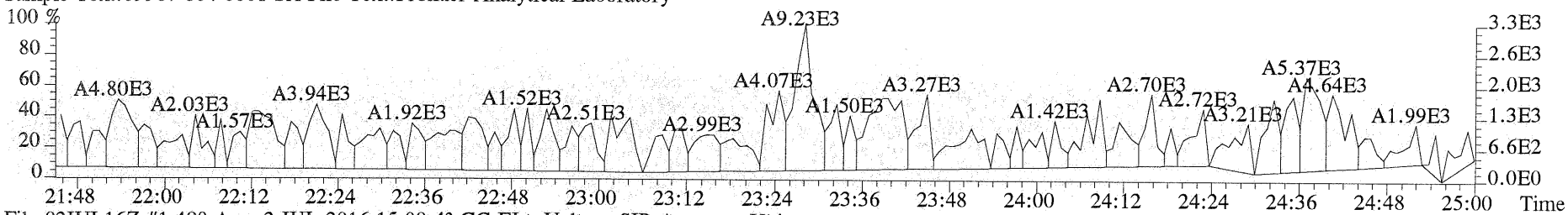
File:02JUL16Z #1-498 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



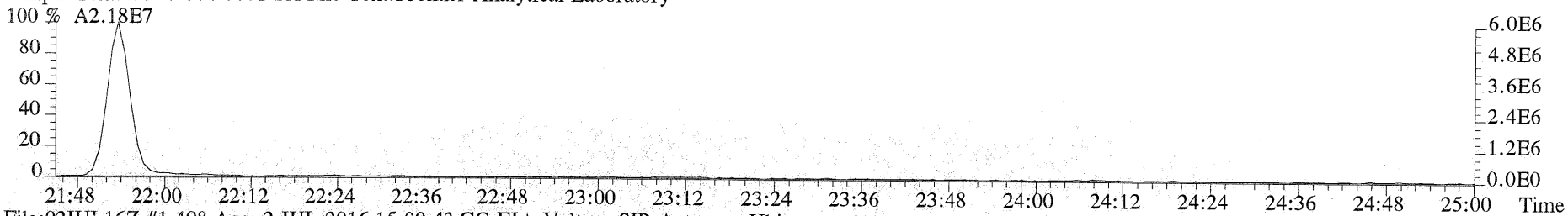
File:02JUL16Z #1-498 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



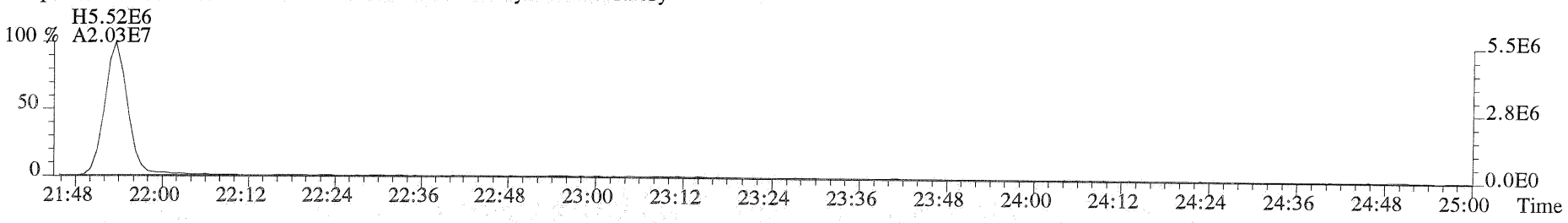
File:02JUL16Z #1-498 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



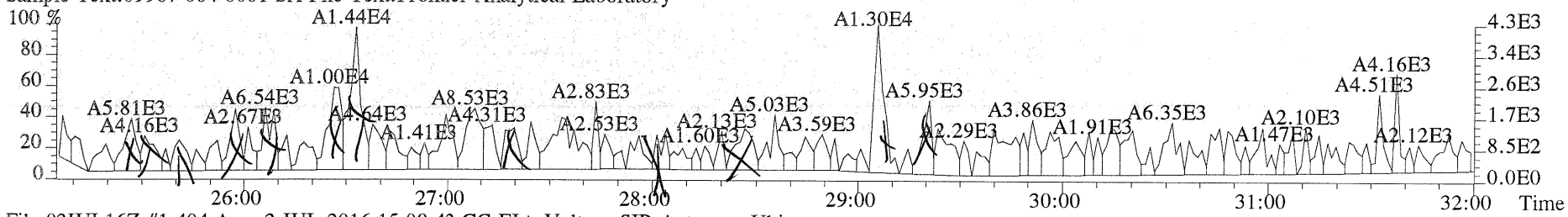
File:02JUL16Z #1-498 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



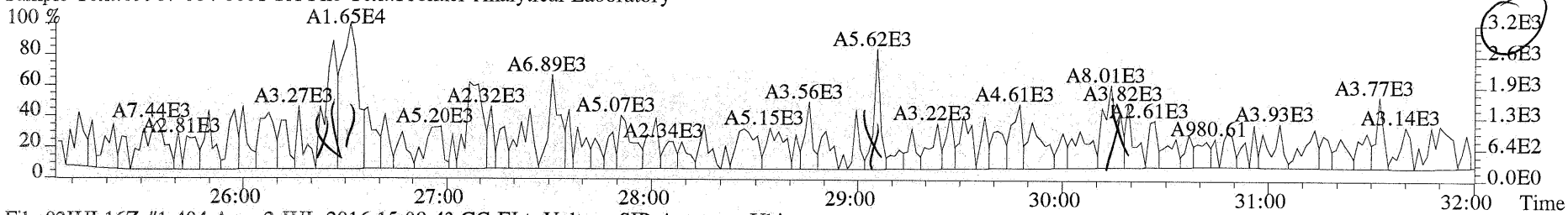
File:02JUL16Z #1-498 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



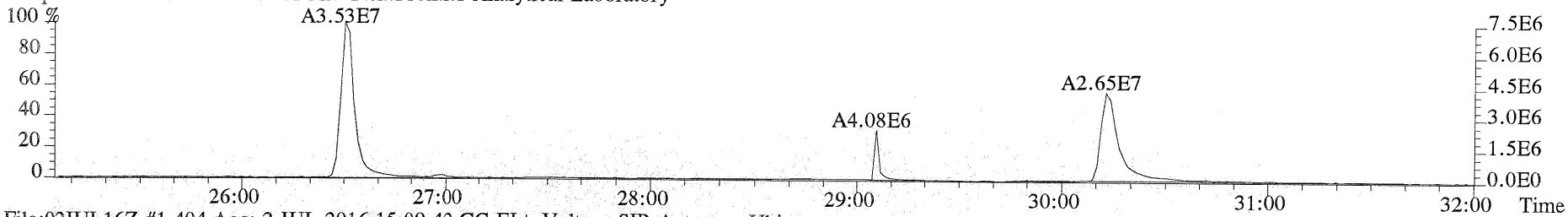
File:02JUL16Z #1-404 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



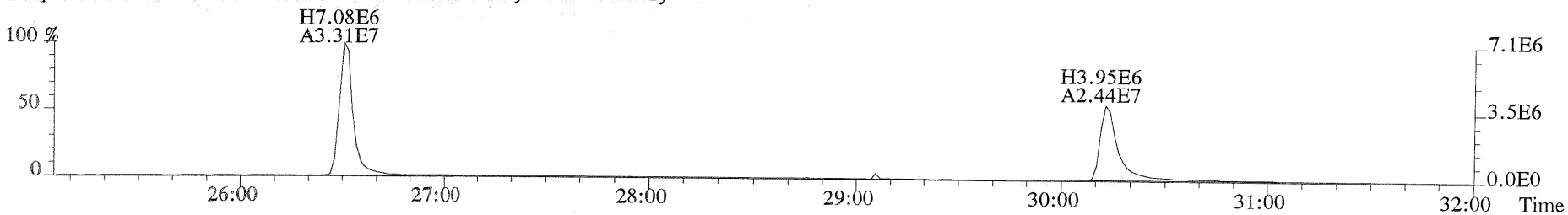
File:02JUL16Z #1-404 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



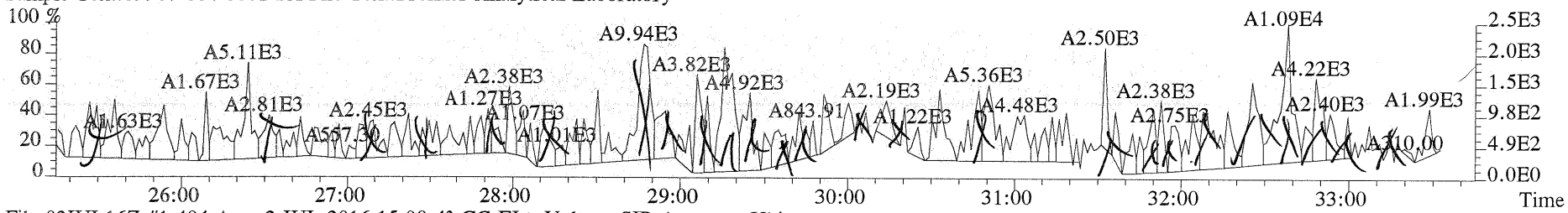
File:02JUL16Z #1-404 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



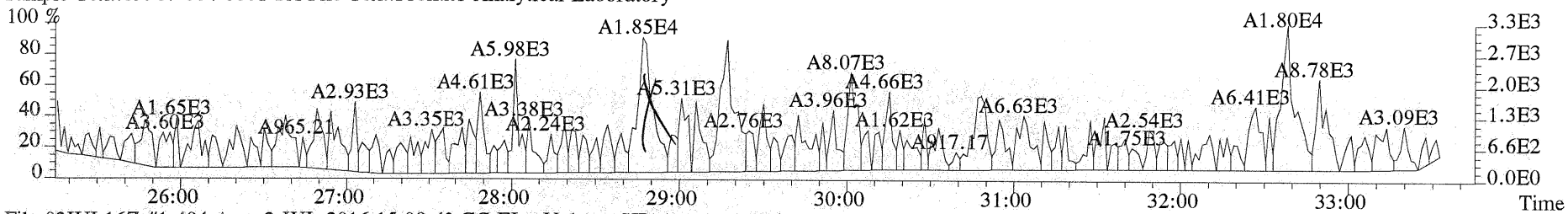
File:02JUL16Z #1-404 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



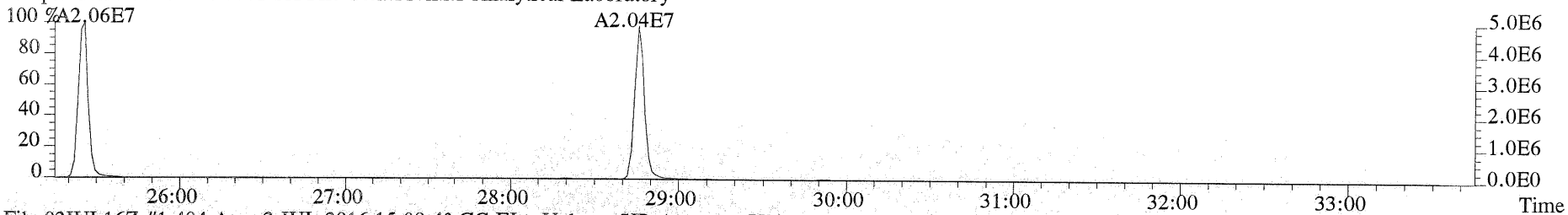
File:02JUL16Z #1-404 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



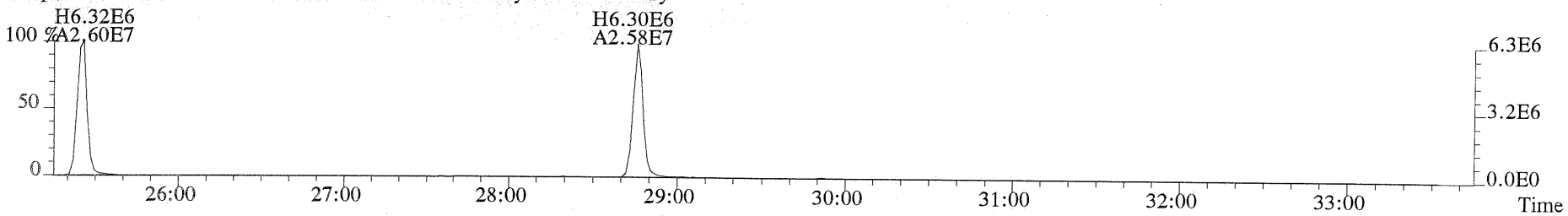
File:02JUL16Z #1-404 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



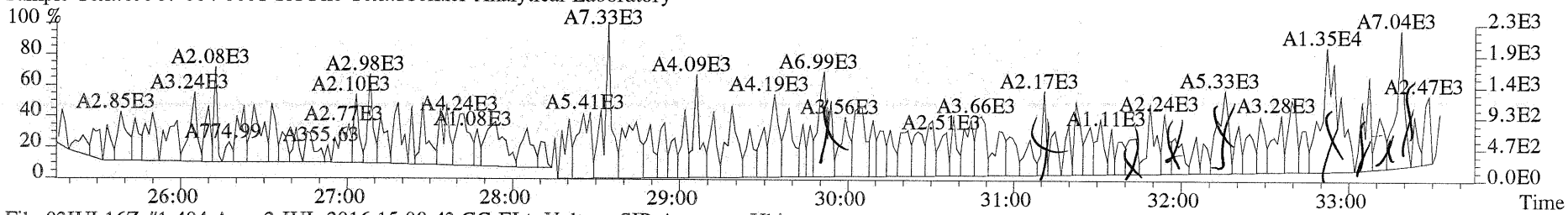
File:02JUL16Z #1-404 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



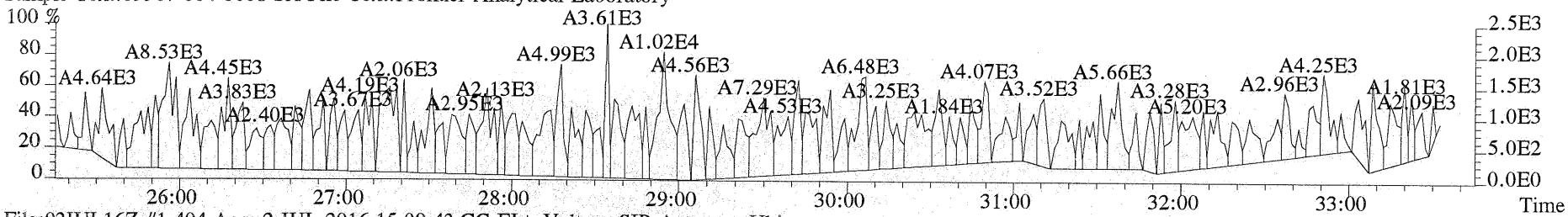
File:02JUL16Z #1-404 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



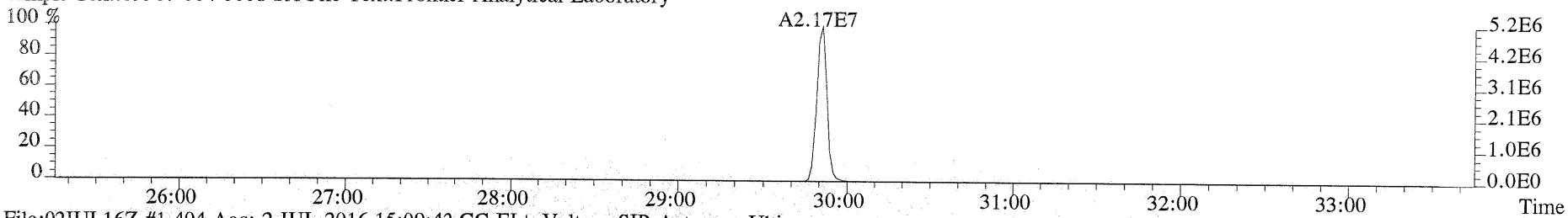
File:02JUL16Z #1-404 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



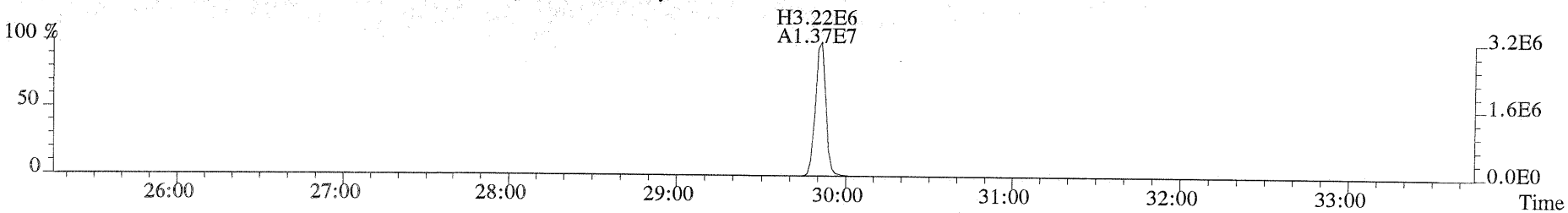
File:02JUL16Z #1-404 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



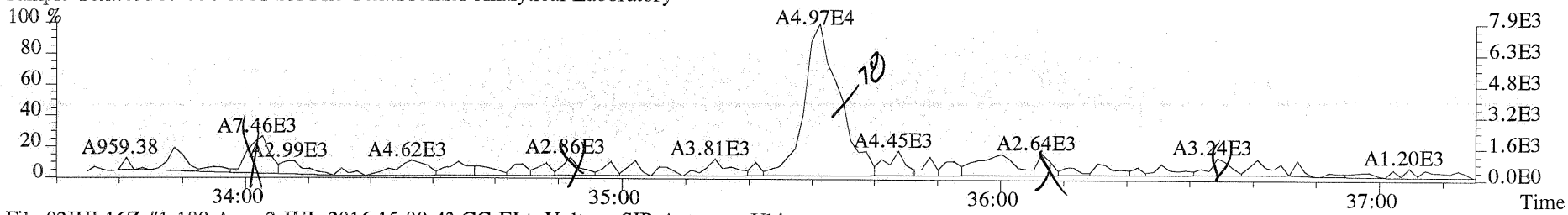
File:02JUL16Z #1-404 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



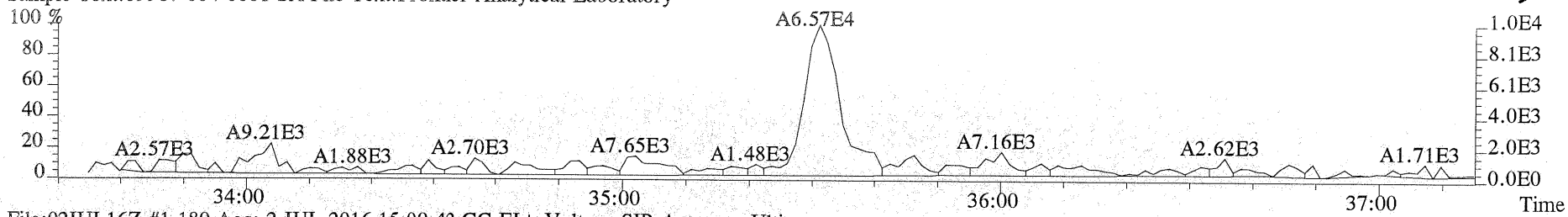
File:02JUL16Z #1-404 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



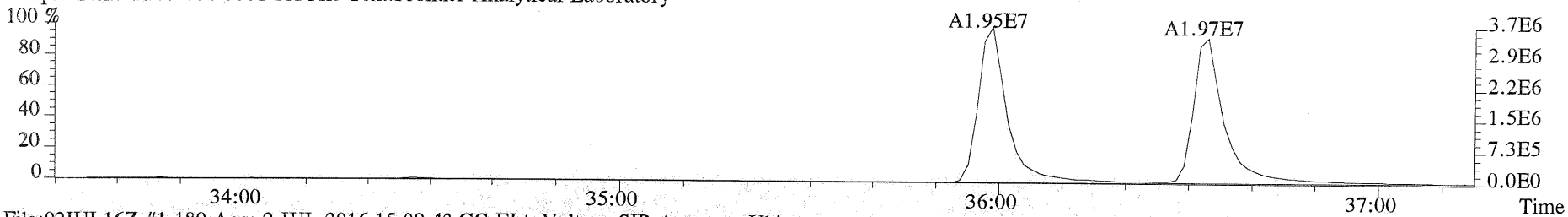
File:02JUL16Z #1-180 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



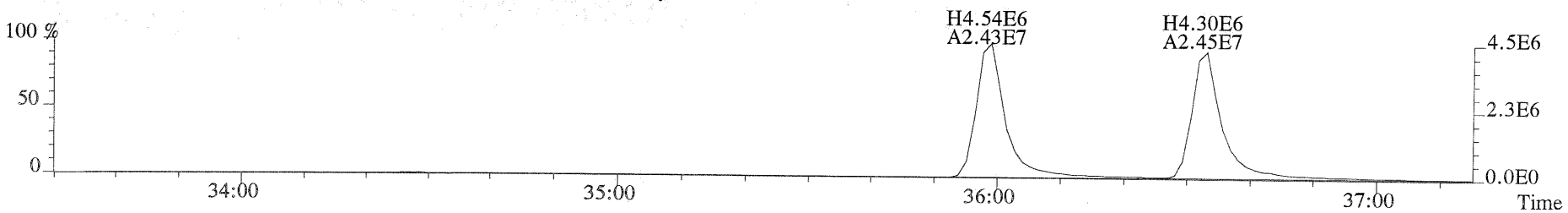
File:02JUL16Z #1-180 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



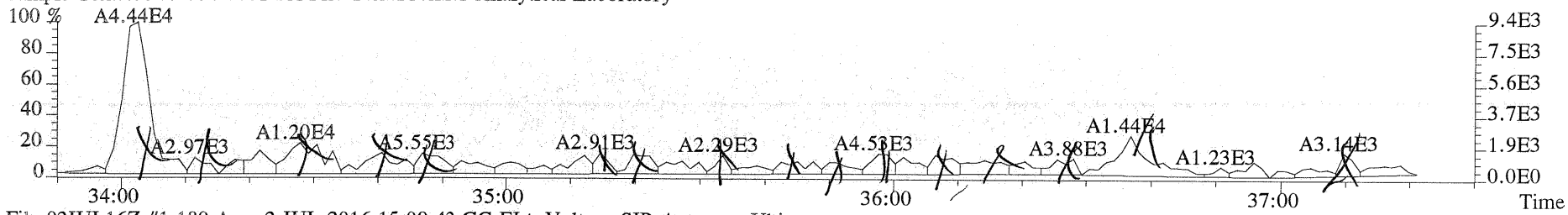
File:02JUL16Z #1-180 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



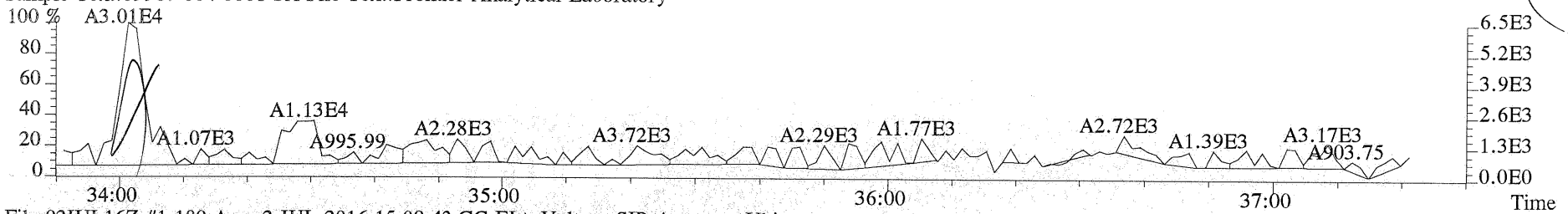
File:02JUL16Z #1-180 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



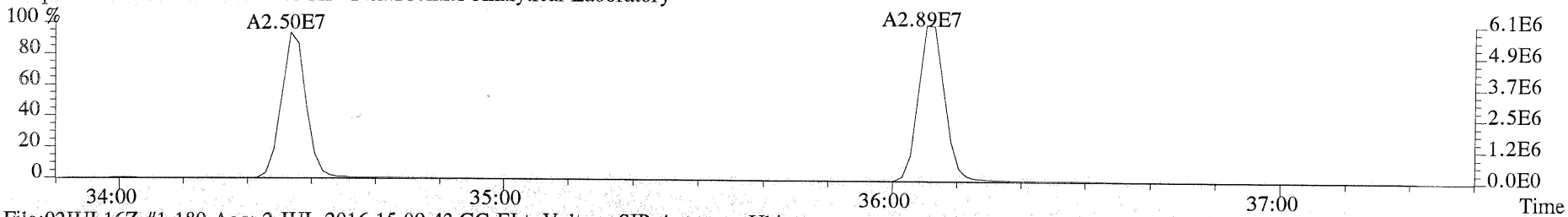
File:02JUL16Z #1-180 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



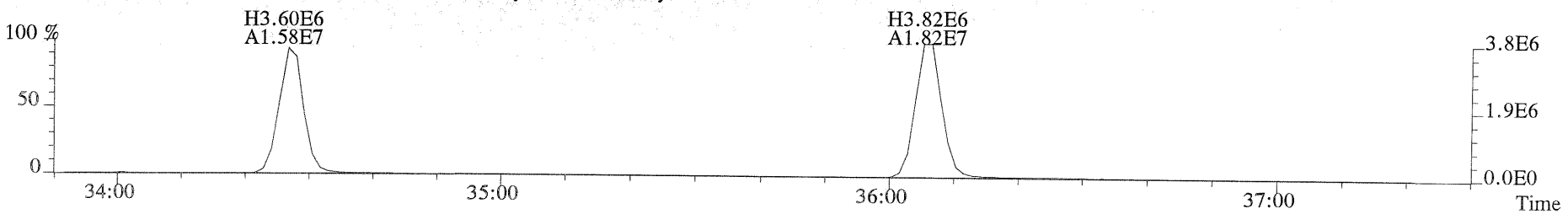
File:02JUL16Z #1-180 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



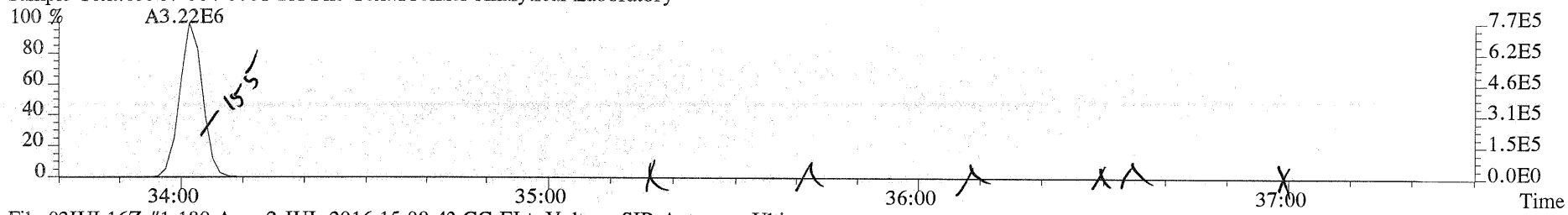
File:02JUL16Z #1-180 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



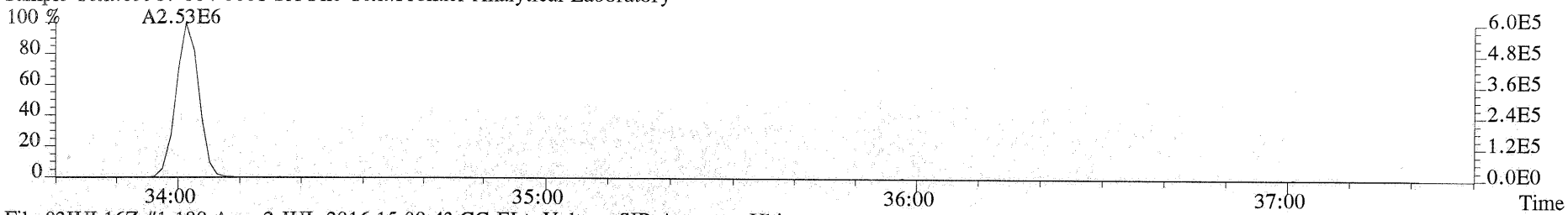
File:02JUL16Z #1-180 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



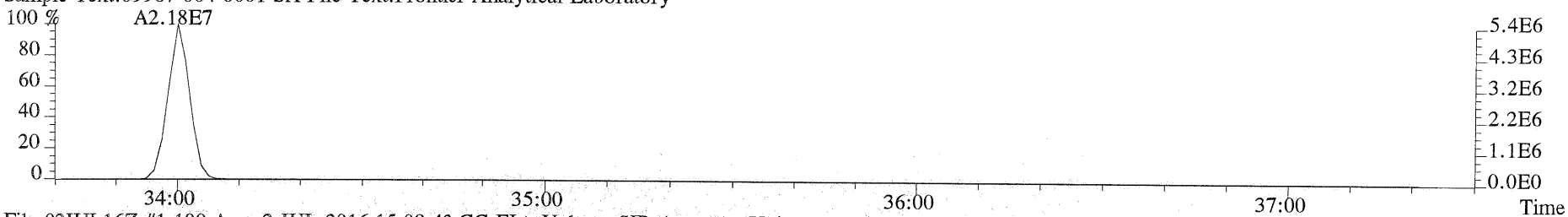
File:02JUL16Z #1-180 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



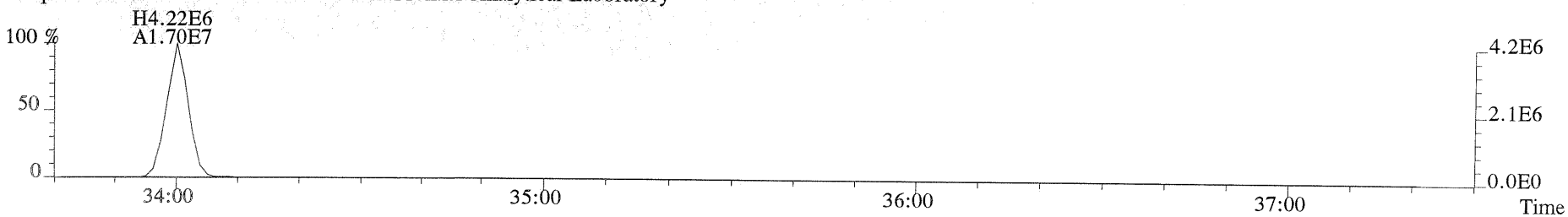
File:02JUL16Z #1-180 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-180 Acq: 2-JUL-2016 15:09:42 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:09967-004-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-180 Acq: 2-JUL-2016 15:09:42 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:09967-004-0001-SA File Text:Frontier Analytical Laboratory



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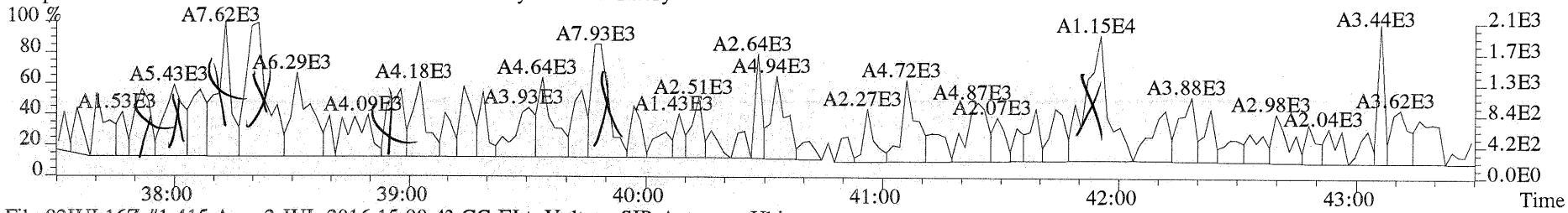
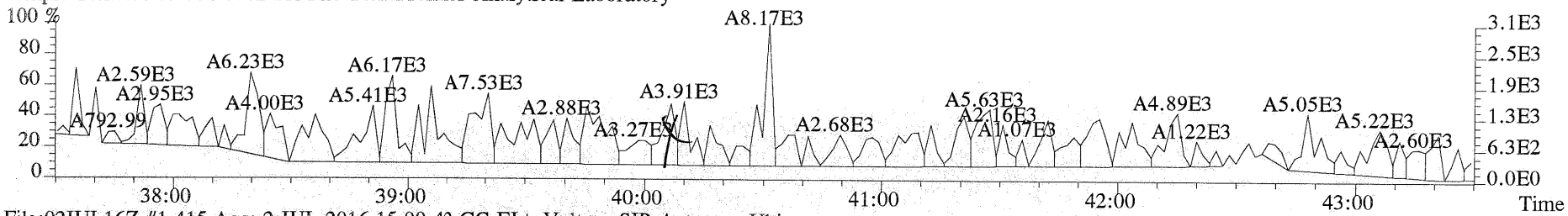
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 15:09:42 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:09967-004-0001-SA File Text:Frontier Analytical Laboratory



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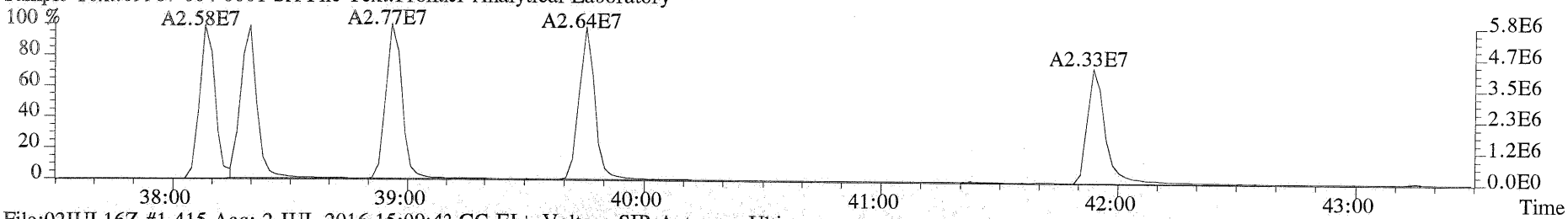
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



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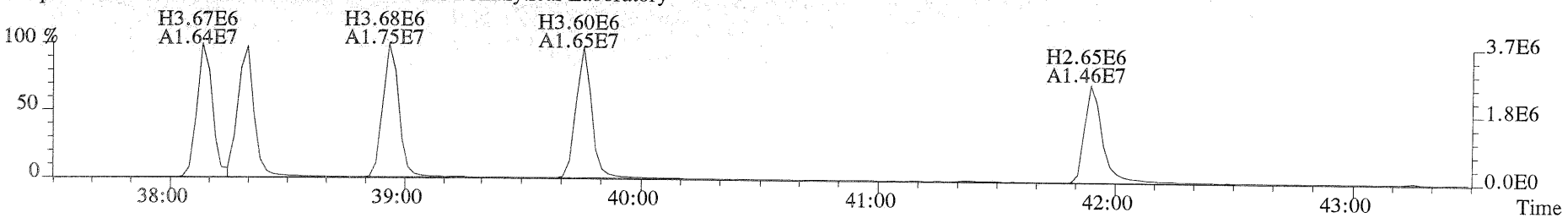
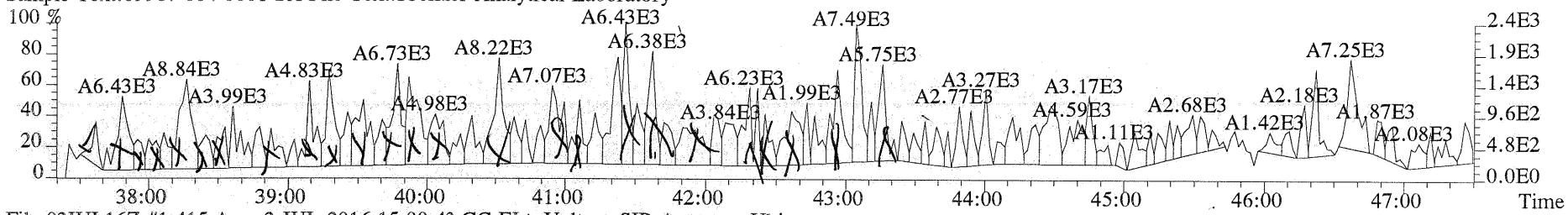
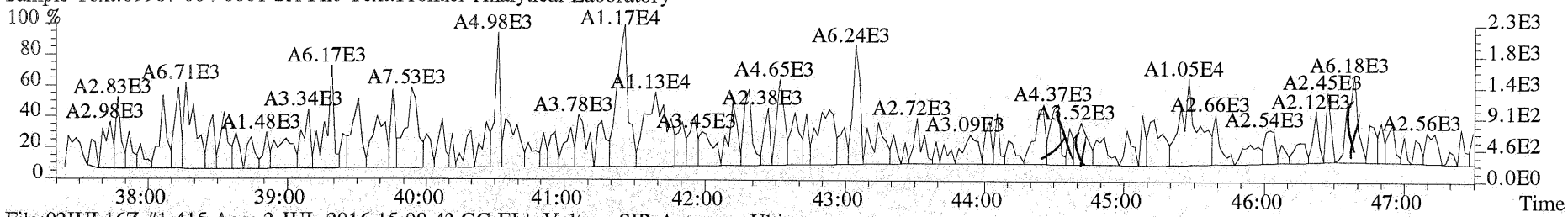
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



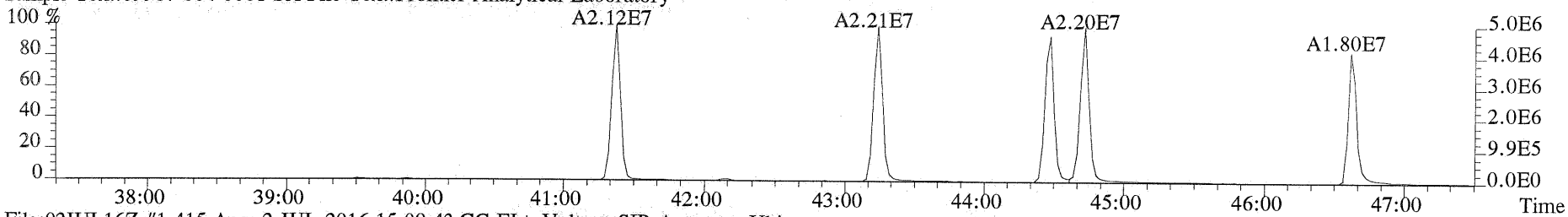
File:02JUL16Z #1-415 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



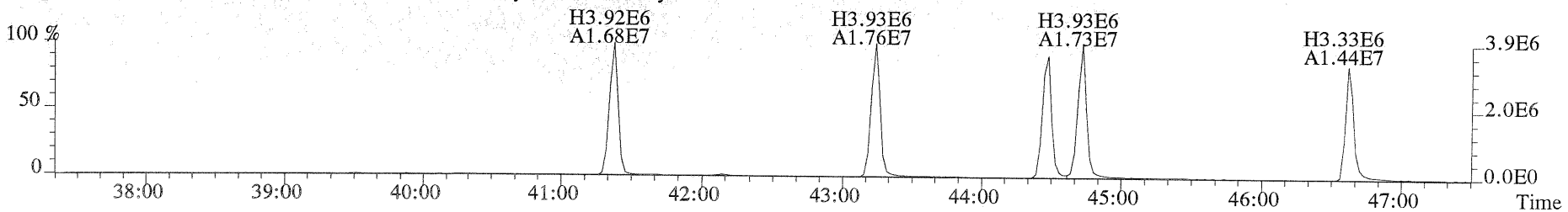
File:02JUL16Z #1-415 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



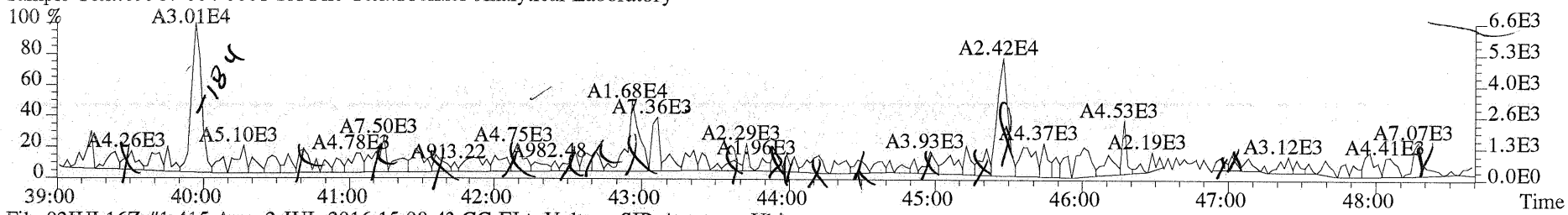
File:02JUL16Z #1-415 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 15:09:42 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:09967-004-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 15:09:42 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:09967-004-0001-SA File Text:Frontier Analytical Laboratory



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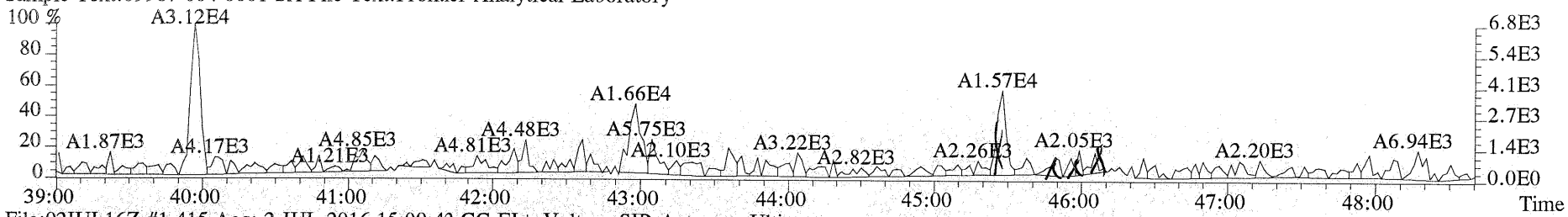
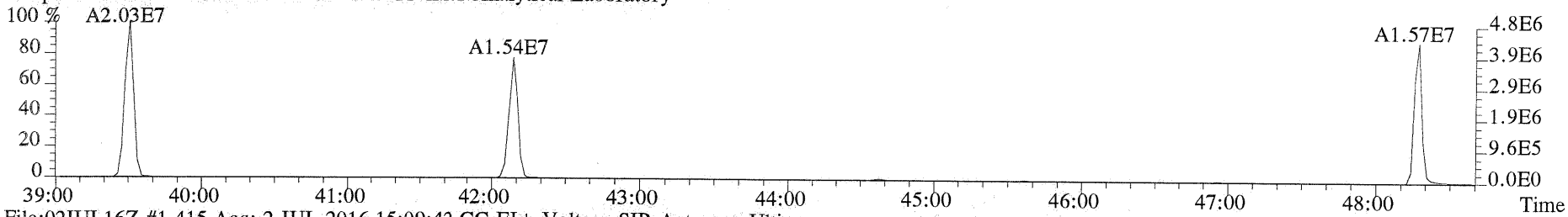
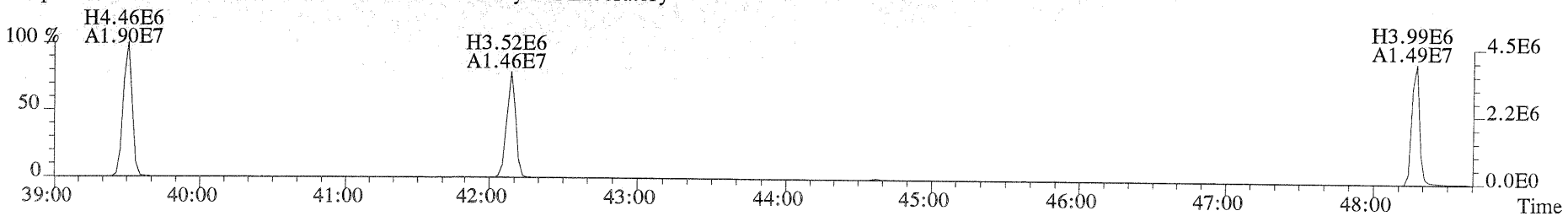
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



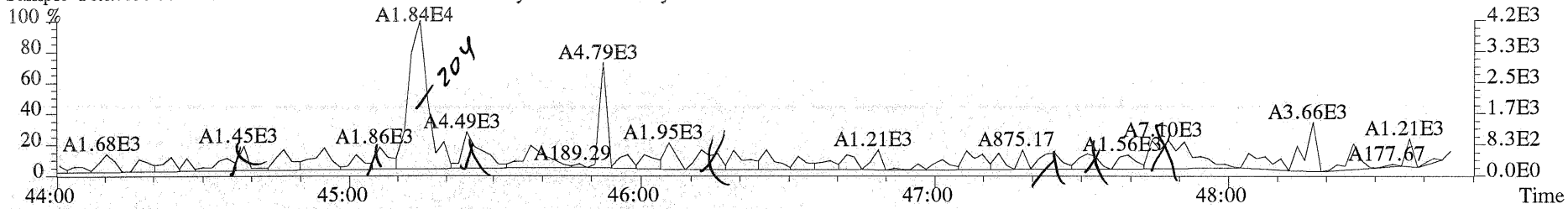
File:02JUL16Z #1-415 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 15:09:42 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:09967-004-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 15:09:42 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:09967-004-0001-SA File Text:Frontier Analytical Laboratory



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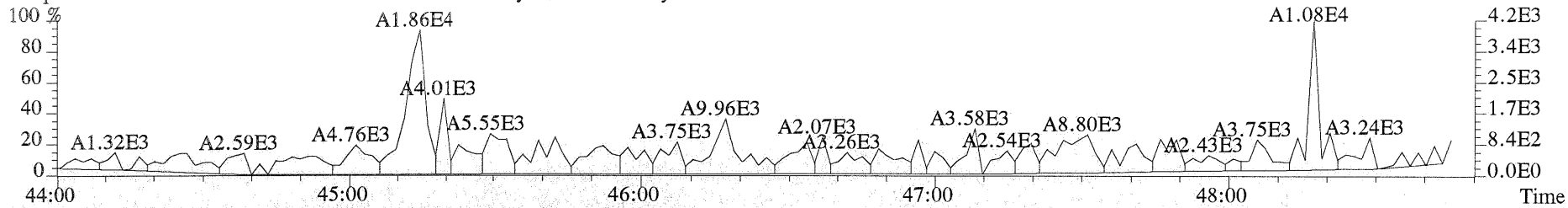
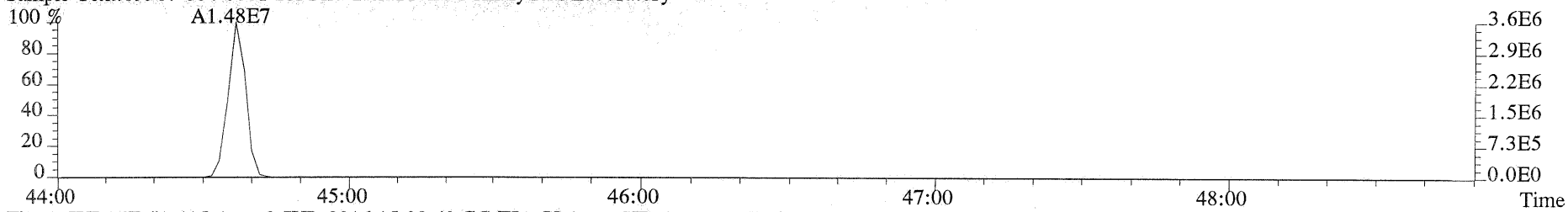
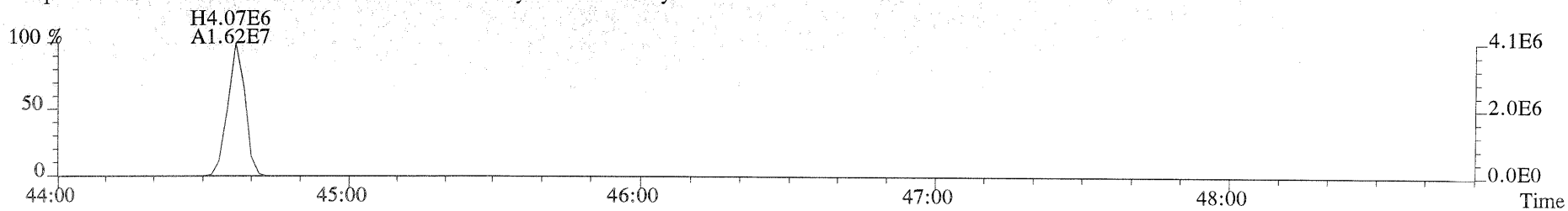
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



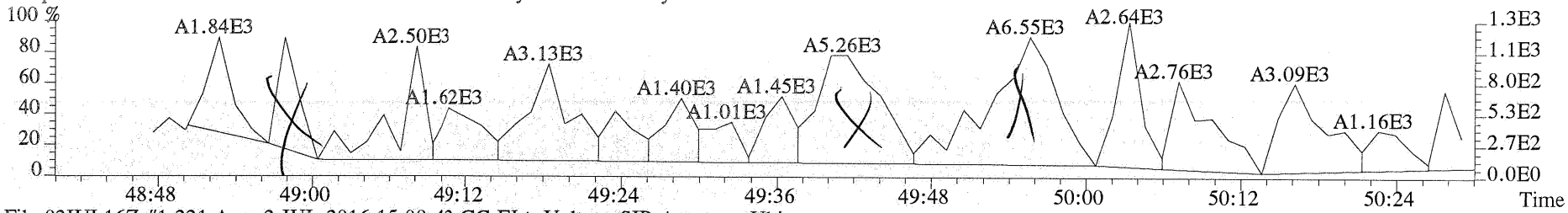
File:02JUL16Z #1-415 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 15:09:42 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:09967-004-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 15:09:42 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:09967-004-0001-SA File Text:Frontier Analytical Laboratory



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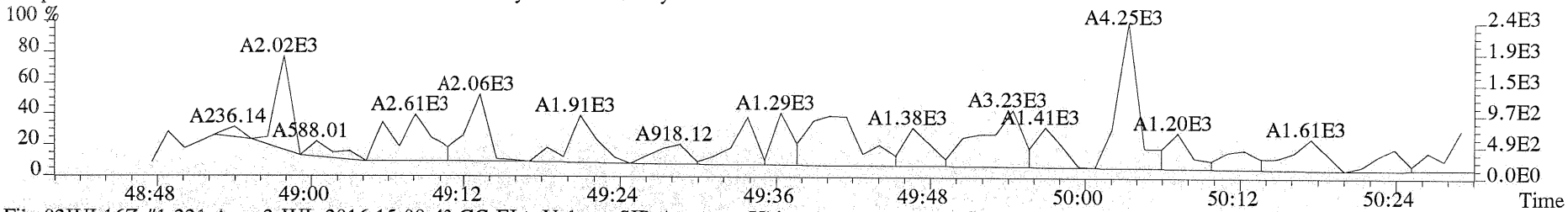
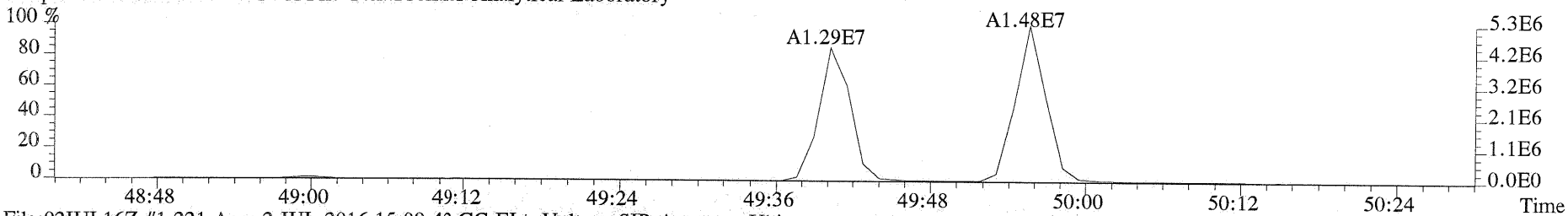
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 15:09:42 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:09967-004-0001-SA File Text:Frontier Analytical Laboratory



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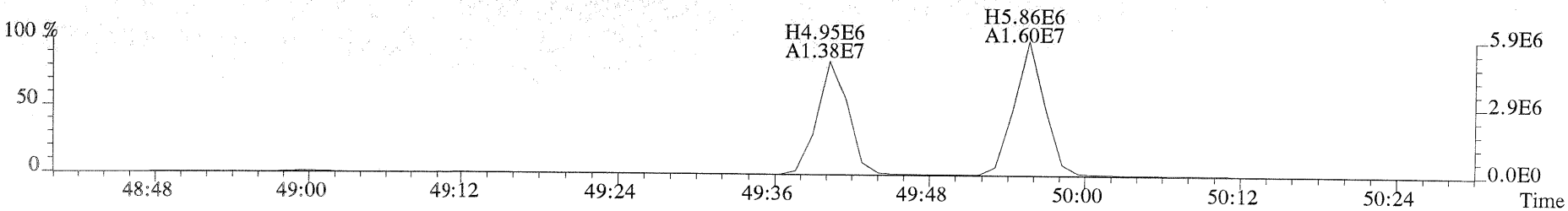
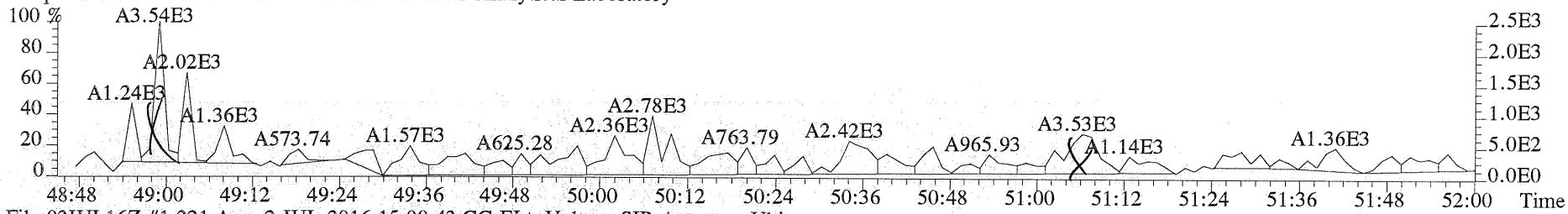
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 15:09:42 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:09967-004-0001-SA File Text:Frontier Analytical Laboratory



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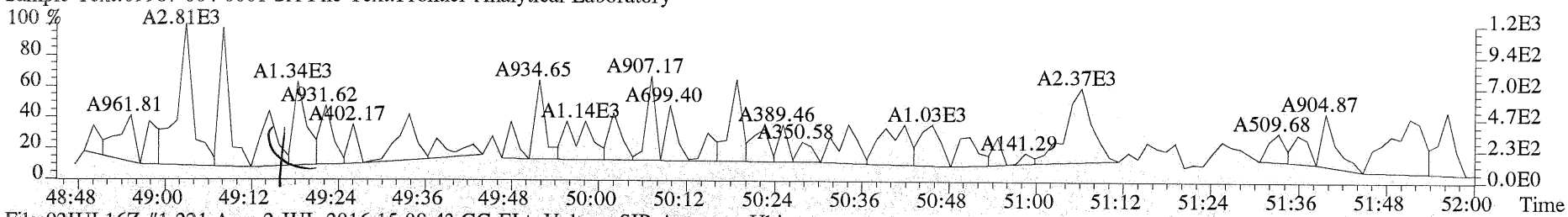
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



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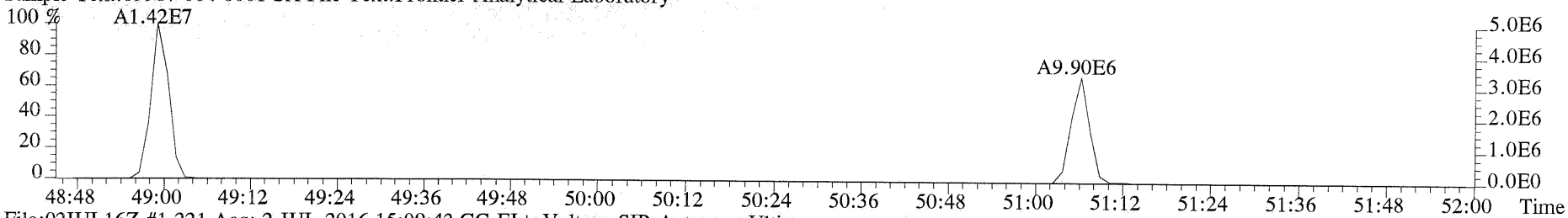
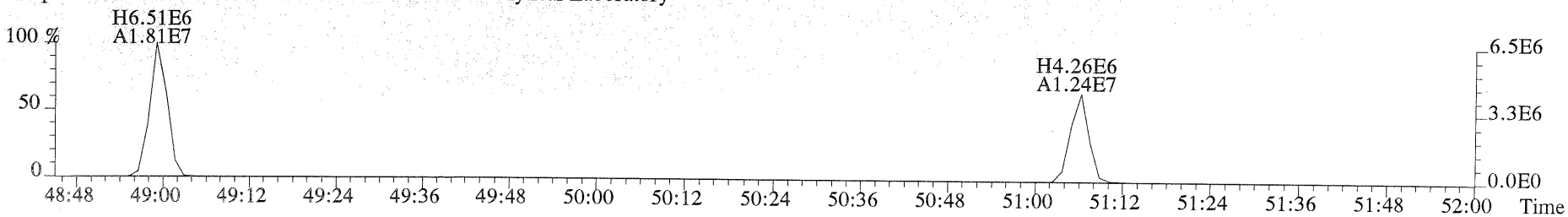
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 15:09:42 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:09967-004-0001-SA File Text:Frontier Analytical Laboratory



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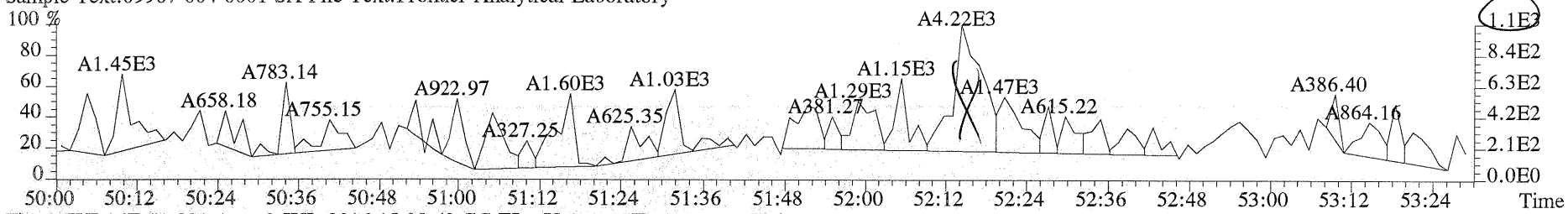
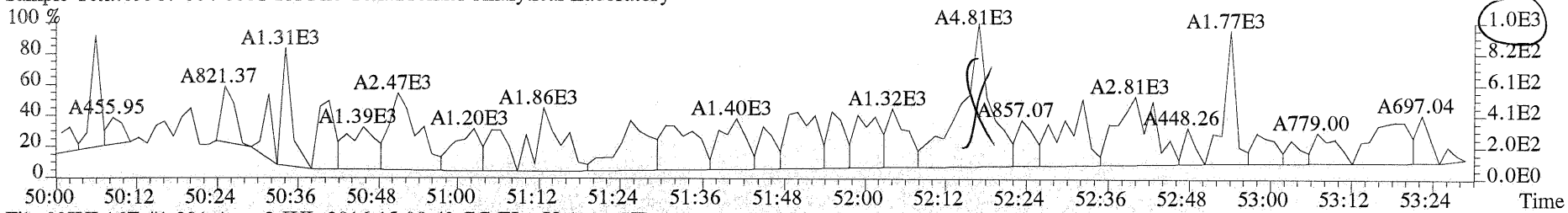
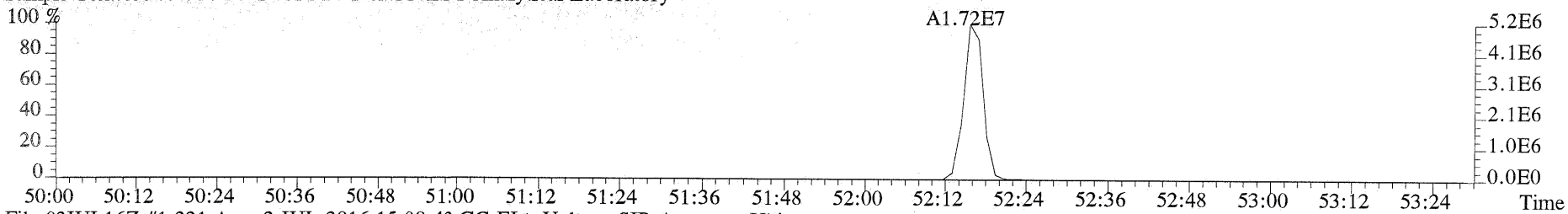
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



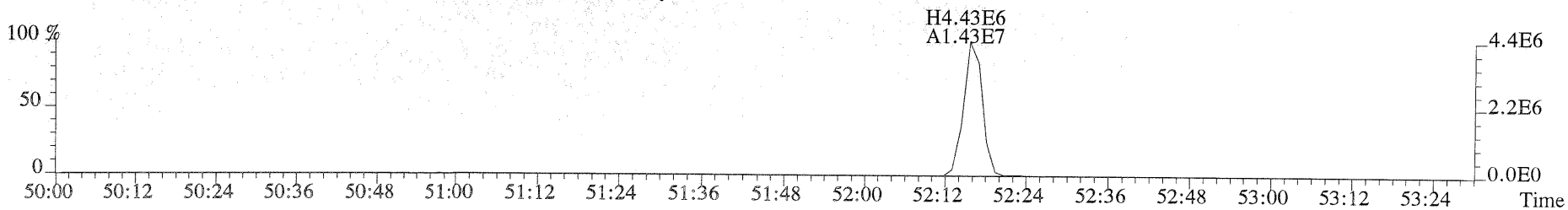
File:02JUL16Z #1-221 Acq: 2-JUL-2016 15:09:42 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-004-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 15:09:42 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:09967-004-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 15:09:42 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:09967-004-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 09967-005-0001-SA Filename: 02JUL16Z Sam:6 Acquired: 2-JUL-16 16:09:40 ICal: DAILY209FAL4-7-2-16
Client ID: LDW-CS-C5-S010-PW-MB ConCal: ST070216Z1 EndCal: ST070216Z2
Results: 9967 GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	* n	NotFnd	0.95	*		4450	3670	6.18	
13C-PCB-1	1.08e+08	3.10 y	14:21	1.24	8950					89.5
PCB-2	*	* n	NotFnd	0.89	*		4450	3670	7.83	
PCB-3	*	* n	NotFnd	0.99	*		4450	3670	8.27	
13C-PCB-3	9.82e+07	3.16 y	16:48	1.14	8910					89.1
PCB-4	*	* n	NotFnd	1.18	*		3700	2750	8.61	
PCB-10	*	* n	NotFnd	1.17	*		3700	2750	9.06	
13C-PCB-4	5.53e+07	1.64 y	18:01	0.59	9610					96.1
PCB-9	*	* n	NotFnd	1.32	*		3700	2750	8.04	
PCB-7	*	* n	NotFnd	1.35	*		3700	2750	7.84	
PCB-6	*	* n	NotFnd	1.37	*		3700	2750	7.75	
PCB-8	*	* n	NotFnd	1.30	*		3700	2750	8.13	
PCB-5	*	* n	NotFnd	1.34	*		3700	2750	7.93	
PCB-14	*	* n	NotFnd	1.27	*		3700	2750	8.34	
PCB-11	*	* n	NotFnd	1.21	*		3700	2750	8.78	
PCB-13	*	* n	NotFnd	1.14	*		3700	2750	9.31	
PCB-12	*	* n	NotFnd	1.22	*		3700	2750	8.68	
PCB-15	*	* n	NotFnd	1.15	*		3700	2750	9.51	
13C-PCB-15	7.93e+07	1.69 y	23:33	0.91	8950					89.5
PCB-19	*	* n	NotFnd	1.06	*		1330	1180	4.18	
PCB-30	*	* n	NotFnd	1.57	*		1330	1180	2.82	
PCB-18	*	* n	NotFnd	1.02	*		1330	1180	4.33	
PCB-17	*	* n	NotFnd	1.12	*		1330	1180	3.93	
PCB-27	*	* n	NotFnd	1.49	*		1330	1180	2.96	
PCB-24	*	* n	NotFnd	1.48	*		1330	1180	3.00	
PCB-16	*	* n	NotFnd	1.16	*		1330	1180	3.82	
PCB-32	*	* n	NotFnd	1.40	*		1330	1180	3.16	
13C-PCB-19	5.28e+07	1.08 y	21:53	0.59	9290					92.9
13C-PCB-9	9.70e+07	1.61 y	19:41	-	47.0					
PCB-34	*	* n	NotFnd	1.12	*		1120	1040	4.58	
PCB-23	*	* n	NotFnd	1.13	*		1120	1040	4.54	
PCB-29	*	* n	NotFnd	1.15	*		1120	1040	4.45	
PCB-26	*	* n	NotFnd	1.16	*		1120	1040	4.42	
PCB-25	*	* n	NotFnd	1.28	*		1120	1040	4.01	
PCB-31	*	* n	NotFnd	1.09	*		1120	1040	4.71	
PCB-28	*	* n	NotFnd	1.38	*		1120	1040	3.72	
PCB-20	*	* n	NotFnd	1.19	*		1120	1040	4.32	Co-elute PCB 21/33
PCB-21	*	* n	NotFnd	1.19	*		1120	1040	4.32	Co-elute PCB 20/33
PCB-33	*	* n	NotFnd	1.19	*		1120	1040	4.32	Co-elute PCB 20/21
PCB-22	*	* n	NotFnd	1.09	*		1120	1040	4.72	
PCB-36	*	* n	NotFnd	1.12	*		1120	1040	4.58	
PCB-39	*	* n	NotFnd	1.08	*		1120	1040	4.75	
PCB-38	*	* n	NotFnd	1.23	*		1120	1040	4.19	
PCB-35	*	* n	NotFnd	1.09	*		1120	1040	4.71	
PCB-37	*	* n	NotFnd	1.17	*		1120	1040	4.38	
13C-PCB-37	6.41e+07	1.12 y	30:13	1.21	9510					95.1

PCB-54	*	* n NotFnd	1.09	*	887	944	2.77	
PCB-50	*	* n NotFnd	0.86	*	887	944	3.53	
PCB-53	*	* n NotFnd	0.82	*	887	944	3.71	
PCB-51	*	* n NotFnd	0.80	*	887	944	3.77	
PCB-45	*	* n NotFnd	0.76	*	887	944	3.98	
PCB-46	*	* n NotFnd	0.70	*	887	944	4.35	
PCB-52	*	* n NotFnd	1.06	*	887	944	2.86	Co-elute PCB 69
PCB-69	*	* n NotFnd	1.06	*	887	944	2.86	Co-elute PCB 52
PCB-73	*	* n NotFnd	1.01	*	887	944	3.00	
PCB-43	*	* n NotFnd	0.85	*	887	944	3.54	Co-elute PCB 49
PCB-49	*	* n NotFnd	0.85	*	887	944	3.54	Co-elute PCB 43
PCB-47	*	* n NotFnd	0.98	*	887	944	3.09	
PCB-48	*	* n NotFnd	1.04	*	887	944	2.91	Co-elute PCB 75
PCB-75	*	* n NotFnd	1.04	*	887	944	2.91	Co-elute PCB 48
PCB-65	*	* n NotFnd	1.11	*	887	944	2.72	
PCB-62	*	* n NotFnd	0.98	*	887	944	3.09	
PCB-44	*	* n NotFnd	0.74	*	887	944	4.09	
PCB-42	*	* n NotFnd	0.98	*	887	944	3.09	Co-elute PCB 59
PCB-59	*	* n NotFnd	0.98	*	887	944	3.09	Co-elute PCB 42
PCB-72	*	* n NotFnd	1.07	*	887	944	2.81	Co-elute PCB 41/71/64
PCB-41	*	* n NotFnd	1.07	*	887	944	2.81	Co-elute PCB 72/71/64
PCB-71	*	* n NotFnd	1.07	*	887	944	2.81	Co-elute PCB 72/41/64
PCB-64	*	* n NotFnd	1.07	*	887	944	2.81	Co-elute PCB 72/41/71
PCB-68	*	* n NotFnd	1.13	*	887	944	2.68	
PCB-40	*	* n NotFnd	0.65	*	887	944	4.66	
PCB-57	*	* n NotFnd	1.12	*	887	944	2.70	
PCB-67	*	* n NotFnd	1.07	*	887	944	2.82	
PCB-58	*	* n NotFnd	1.07	*	887	944	2.83	
PCB-63	*	* n NotFnd	1.11	*	887	944	2.73	
PCB-74	*	* n NotFnd	1.14	*	887	944	2.66	
PCB-61	*	* n NotFnd	1.10	*	887	944	2.75	Co-elute PCB 70
PCB-70	*	* n NotFnd	1.10	*	887	944	2.75	Co-elute PCB 61
PCB-76	*	* n NotFnd	1.14	*	887	944	2.65	Co-elute PCB 66
PCB-66	*	* n NotFnd	1.14	*	887	944	2.65	Co-elute PCB 76
PCB-80	*	* n NotFnd	1.23	*	887	944	2.45	
PCB-55	*	* n NotFnd	1.08	*	887	944	2.79	
13C-PCB-54	5.94e+07	0.80 y 25:25	1.07	9930				99.3
PCB-104	*	* n NotFnd	1.23	*	987	1080	3.99	
PCB-96	*	* n NotFnd	1.15	*	987	1080	4.26	
PCB-103	*	* n NotFnd	0.96	*	987	1080	5.07	
PCB-100	*	* n NotFnd	0.91	*	987	1080	5.38	
PCB-94	*	* n NotFnd	0.76	*	987	1080	6.40	
PCB-98	*	* n NotFnd	0.99	*	987	1080	4.94	Co-elute PCB 102
PCB-102	*	* n NotFnd	0.99	*	987	1080	4.94	Co-elute PCB 98
PCB-95	*	* n NotFnd	0.82	*	987	1080	5.99	
PCB-93	*	* n NotFnd	0.76	*	987	1080	6.42	
PCB-88	*	* n NotFnd	0.87	*	987	1080	5.60	Co-elute PCB 91
PCB-91	*	* n NotFnd	0.87	*	987	1080	5.60	Co-elute PCB 88
PCB-121	*	* n NotFnd	1.05	*	987	1080	4.66	
13C-PCB-104	4.36e+07	1.61 y 29:50	0.81	9690				96.9
13C-PCB-28	8.38e+07	1.07 y 26:30	1.42	10600				106
13C-PCB-52	5.56e+07	0.79 y 28:46	-	44.6				

PCB-56	*	*	n	NotFnd	1.17	*	604	796	3.06	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.17	*	604	796	3.06	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.20	*	604	796	2.99	
PCB-78	2.00e+05	0.85	y	35:30	1.21	30.3	-	-	*	
PCB-81	*	*	n	NotFnd	1.27	*	604	796	2.67	
13C-PCB-81	5.48e+07	0.80	y	35:58	1.12	9940				99.4
PCB-77	*	*	n	NotFnd	1.14	*	604	796	3.30	
13C-PCB-77	5.43e+07	0.81	y	36:32	1.10	10000				100
PCB-155	1.16e+07	1.28	y	34:01	1.13	2160	-	-	*	
PCB-150	*	*	n	NotFnd	1.02	*	868	712	3.50	
PCB-152	*	*	n	NotFnd	1.05	*	868	712	3.38	
PCB-145	*	*	n	NotFnd	0.99	*	868	712	3.59	
PCB-136	*	*	n	NotFnd	1.01	*	868	712	3.53	
PCB-148	*	*	n	NotFnd	0.80	*	868	712	4.47	
PCB-154	*	*	n	NotFnd	0.89	*	868	712	4.01	
13C-PCB-155	4.76e+07	1.28	y	34:00	1.01	9570				95.7
13C-PCB-111	5.77e+07	1.59	y	36:05	1.13	10400				104
13C-PCB-101	4.91e+07	1.61	y	34:27	-	45.6				
PCB-84	*	*	n	NotFnd	0.80	*	988	1110	5.75	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.80	*	988	1110	5.75	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.78	*	988	1110	5.83	
PCB-90	*	*	n	NotFnd	0.87	*	988	1110	5.25	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.87	*	988	1110	5.25	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.07	*	988	1110	4.28	
PCB-99	*	*	n	NotFnd	0.90	*	988	1110	5.10	
PCB-119	*	*	n	NotFnd	1.16	*	988	1110	3.96	
PCB-83	*	*	n	NotFnd	0.93	*	988	1110	4.90	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.93	*	988	1110	4.90	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.05	*	988	1110	4.37	
PCB-97	*	*	n	NotFnd	0.90	*	988	1110	5.10	
PCB-86	*	*	n	NotFnd	0.71	*	988	1110	6.48	
PCB-125	*	*	n	NotFnd	1.06	*	988	1110	4.33	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	1.06	*	988	1110	4.33	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	1.06	*	988	1110	4.33	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.20	*	988	1110	3.81	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.20	*	988	1110	3.81	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.99	*	988	1110	4.62	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.99	*	988	1110	4.62	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.19	*	988	1110	3.84	
PCB-110	*	*	n	NotFnd	1.18	*	988	1110	3.88	
PCB-82	*	*	n	NotFnd	0.69	*	988	1110	6.67	
PCB-124	*	*	n	NotFnd	1.12	*	868	848	3.34	
PCB-108	*	*	n	NotFnd	1.01	*	868	848	3.68	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.01	*	868	848	3.68	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.15	*	868	848	3.11	
13C-PCB-123	5.14e+07	1.59	y	38:08	1.10	10300				103
PCB-118	*	*	n	NotFnd	1.02	*	868	848	3.75	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.02	*	868	848	3.75	Co-elute PCB 118
13C-PCB-118	5.89e+07	1.61	y	38:20	1.16	11200				112
PCB-114	*	*	n	NotFnd	1.06	*	868	848	3.42	
13C-PCB-114	5.46e+07	1.61	y	38:56	1.13	10700				107
PCB-122	*	*	n	NotFnd	1.18	*	868	848	3.17	
PCB-105	*	*	n	NotFnd	1.13	*	868	848	3.47	
13C-PCB-105	5.30e+07	1.58	y	39:45	1.13	10300				103

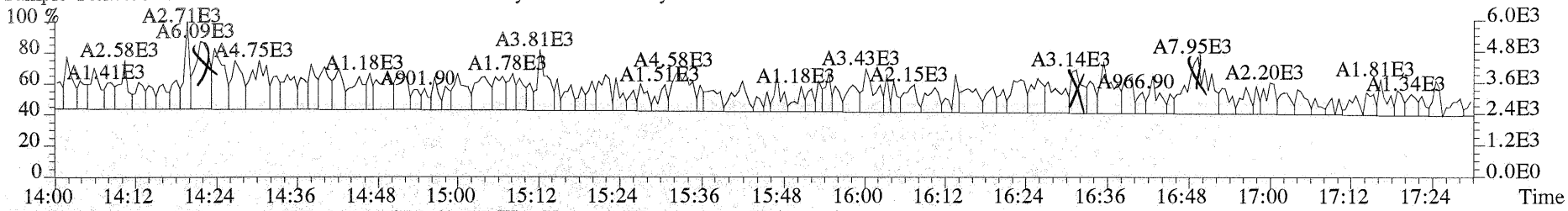
PCB-127	*	*	n	NotFnd	1.04	*		868	848	3.60	
PCB-126	*	*	n	NotFnd	1.16	*		868	848	4.42	
13C-PCB-126	4.60e+07	1.54	y	41:54	0.98	10300					103
PCB-151	*	*	n	NotFnd	0.88	*		700	684	4.05	
PCB-135	*	*	n	NotFnd	0.86	*		700	684	4.17	
PCB-144	*	*	n	NotFnd	0.94	*		700	684	3.81	
PCB-147	*	*	n	NotFnd	0.97	*		700	684	3.67	
PCB-139	*	*	n	NotFnd	0.95	*		700	684	3.75	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	0.95	*		700	684	3.75	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.93	*		700	684	3.82	
PCB-143	*	*	n	NotFnd	0.89	*		700	684	4.00	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.89	*		700	684	4.00	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.90	*		700	684	3.97	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.90	*		700	684	3.97	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.83	*		700	684	4.33	
PCB-165	*	*	n	NotFnd	1.08	*		700	684	3.30	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.08	*		700	684	3.30	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	1.01	*		700	684	3.54	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	1.01	*		700	684	3.54	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	1.10	*		700	684	3.25	
PCB-168	*	*	n	NotFnd	1.15	*		700	684	3.10	
PCB-141	*	*	n	NotFnd	0.91	*		700	684	3.91	
PCB-137	*	*	n	NotFnd	0.85	*		700	684	4.21	
PCB-130	*	*	n	NotFnd	0.83	*		700	684	4.32	
PCB-138	*	*	n	NotFnd	1.17	*		700	684	3.04	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.17	*		700	684	3.04	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.17	*		700	684	3.04	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.17	*		700	684	3.04	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.17	*		700	684	3.04	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.77	*		700	684	4.66	
PCB-166	*	*	n	NotFnd	1.13	*		700	684	3.16	
PCB-159	*	*	n	NotFnd	1.21	*		700	684	2.94	
PCB-128	*	*	n	NotFnd	0.95	*		700	684	3.77	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	0.95	*		700	684	3.77	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	1.04	*		700	684	3.15	
13C-PCB-167	4.91e+07	1.27	y	43:14	1.04	10400					104
PCB-156	*	*	n	NotFnd	1.09	*		700	684	3.45	
13C-PCB-156	4.48e+07	1.26	y	44:29	1.01	9750					97.5
PCB-157	*	*	n	NotFnd	1.00	*		700	684	3.55	
13C-PCB-157	4.73e+07	1.24	y	44:43	1.03	10100					101
PCB-169	*	*	n	NotFnd	1.02	*		700	684	3.72	
13C-PCB-169	3.84e+07	1.27	y	46:37	0.89	9510					95.1

FAL ID: 09967-005-0001-SA Filename: 02JUL16Z Sam:6 Acquired: 2-JUL-16 16:09:40 ICal: DAILY209FAL4-7-2-16
Client ID: LDW-CS-C5-S010-PW-MB ConCal: ST070216Z1 EndCal: ST070216Z2
Results: 9967 GC Column: DB1 Amount: 1.000

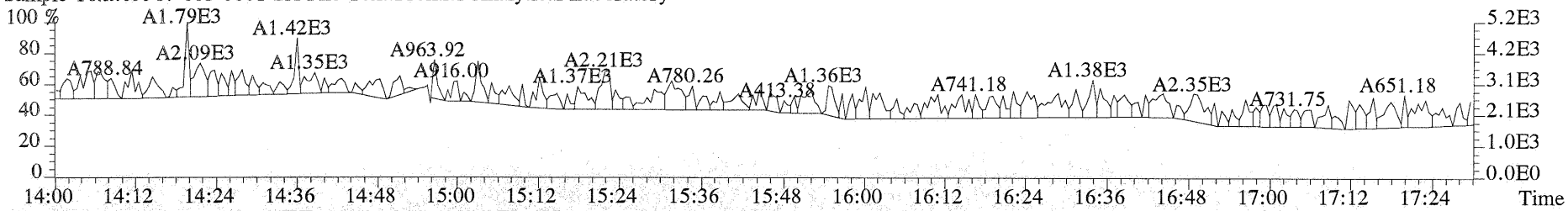
PCB-188	*	*	n	NotFnd	1.16	*		1600	1550	6.07	
13C-PCB-188	4.92e+07	1.07	y	39:31	1.12	9660					96.6
PCB-184	8.86e+04	1.12	y	39:57	1.27	16.1	J	-	-	*	
PCB-179	*	*	n	NotFnd	1.27	*		1600	1550	5.99	
PCB-176	*	*	n	NotFnd	1.24	*		1600	1550	6.11	
PCB-186	*	*	n	NotFnd	1.19	*		1600	1550	6.35	
PCB-178	*	*	n	NotFnd	0.90	*		1600	1550	8.40	
PCB-175	*	*	n	NotFnd	0.93	*		1600	1550	8.17	
PCB-187	*	*	n	NotFnd	0.98	*		1600	1550	7.76	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.98	*		1600	1550	7.76	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.99	*		1600	1550	7.64	
PCB-185	*	*	n	NotFnd	0.87	*		1600	1550	8.70	
PCB-174	*	*	n	NotFnd	0.95	*		1600	1550	7.99	
PCB-181	*	*	n	NotFnd	0.81	*		1600	1550	9.33	
PCB-177	*	*	n	NotFnd	0.84	*		1600	1550	8.98	
PCB-171	*	*	n	NotFnd	0.89	*		1600	1550	8.49	
PCB-173	*	*	n	NotFnd	0.79	*		1600	1550	9.61	
PCB-172	*	*	n	NotFnd	0.83	*		1600	1550	9.09	
PCB-192	*	*	n	NotFnd	1.06	*		1600	1550	7.14	
PCB-180	*	*	n	NotFnd	0.98	*		1600	1550	7.76	
PCB-193	*	*	n	NotFnd	1.15	*		1600	1550	6.59	
PCB-191	*	*	n	NotFnd	1.12	*		1600	1550	6.78	
PCB-170	*	*	n	NotFnd	0.77	*		1600	1550	9.82	
PCB-190	*	*	n	NotFnd	1.06	*		1600	1550	7.16	
PCB-189	*	*	n	NotFnd	1.15	*		1600	1550	7.17	
13C-PCB-189	3.78e+07	1.04	y	48:17	0.86	9650					96.5
PCB-202	*	*	n	NotFnd	0.98	*		844	880	4.69	
PCB-201	*	*	n	NotFnd	1.03	*		844	880	4.48	
PCB-204	4.50e+04	1.00	y	45:13	1.00	11.9	J	-	-	*	
PCB-197	*	*	n	NotFnd	1.00	*		844	880	4.60	
PCB-200	*	*	n	NotFnd	1.00	*		844	880	4.61	
PCB-198	*	*	n	NotFnd	0.71	*		844	880	6.46	
PCB-199	*	*	n	NotFnd	0.67	*		844	880	6.87	
PCB-203	*	*	n	NotFnd	0.74	*		844	880	6.19	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.74	*		844	880	6.19	Co-elute PCB 203
13C-PCB-202	3.78e+07	0.90	y	44:37	0.89	9400					94.0
13C-PCB-178	3.50e+07	1.06	y	42:09	0.78	9940					99.4
13C-PCB-138	4.54e+07	1.25	y	41:23	-	45.9					
PCB-195	*	*	n	NotFnd	0.78	*		820	992	4.40	
PCB-194	*	*	n	NotFnd	0.87	*		820	992	3.97	
PCB-205	*	*	n	NotFnd	1.07	*		820	992	3.23	
13C-PCB-205	3.81e+07	0.91	y	49:56	1.20	9720					97.2
PCB-208	*	*	n	NotFnd	1.00	*		1240	1260	4.61	
13C-PCB-208	3.86e+07	0.80	y	48:59	1.39	8460					84.6
PCB-207	*	*	n	NotFnd	1.09	*		1240	1260	5.11	
PCB-206	*	*	n	NotFnd	1.04	*		1240	1260	6.63	
13C-PCB-206	2.73e+07	0.79	y	51:06	0.97	8570					85.7
PCB-209	*	*	n	NotFnd	1.06	*		1190	1410	5.15	
13C-PCB-209	3.76e+07	1.18	y	52:16	1.42	8040					80.4
13C-PCB-194	3.28e+07	0.92	y	49:40	-	50.3					

Analyst: _____ Date: 7/5/16

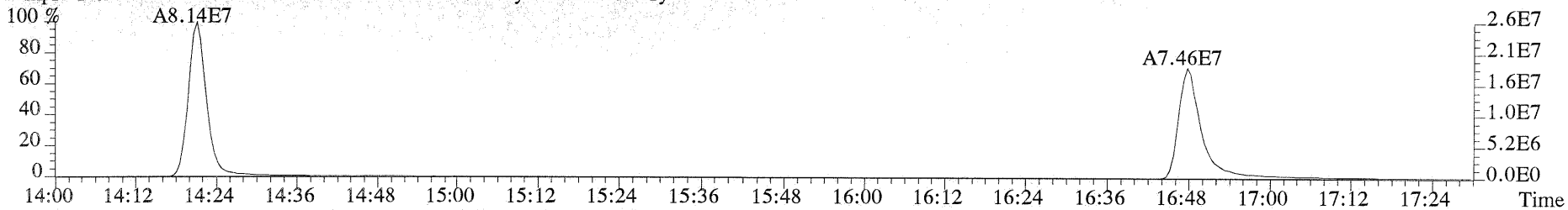
File:02JUL16Z #1-901 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



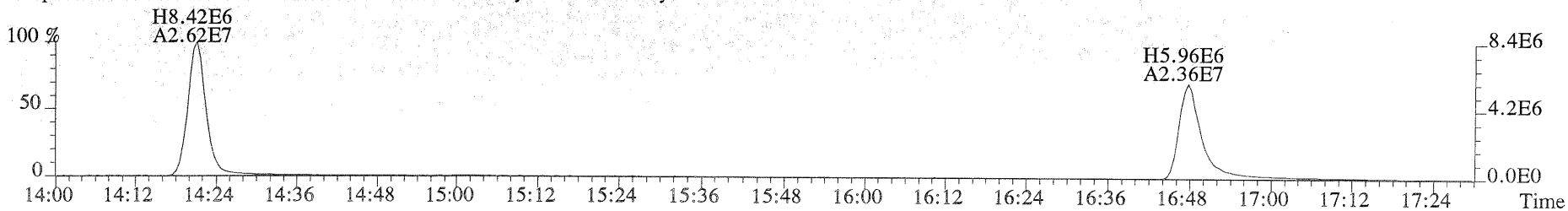
File:02JUL16Z #1-901 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



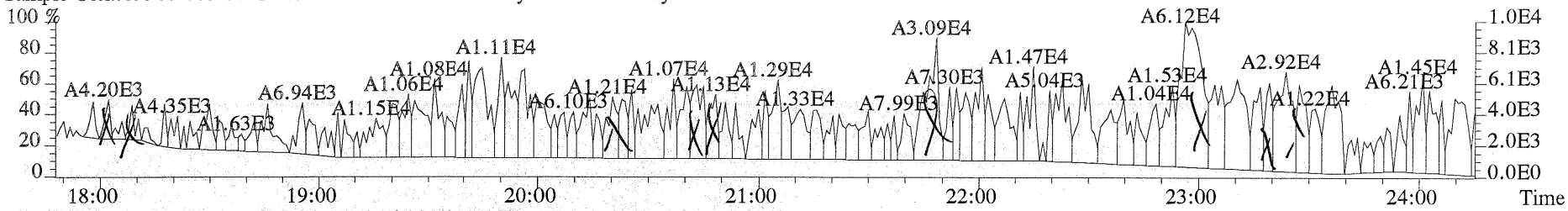
File:02JUL16Z #1-901 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



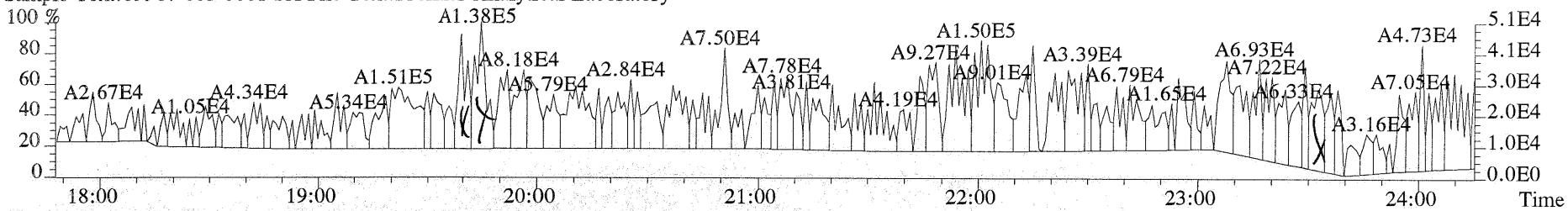
File:02JUL16Z #1-901 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



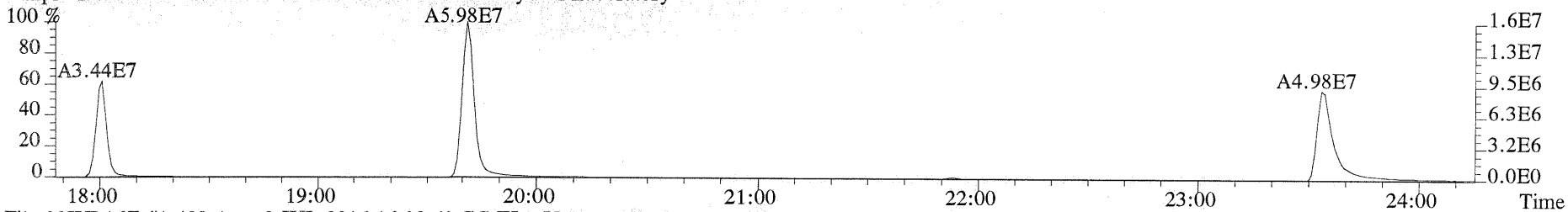
File:02JUL16Z #1-498 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



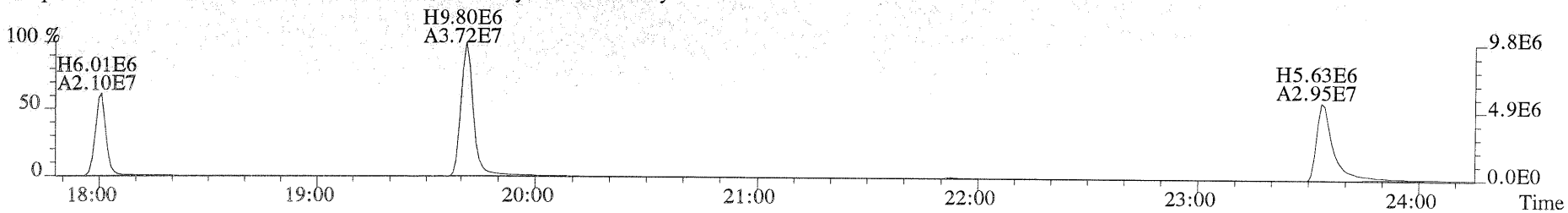
File:02JUL16Z #1-498 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



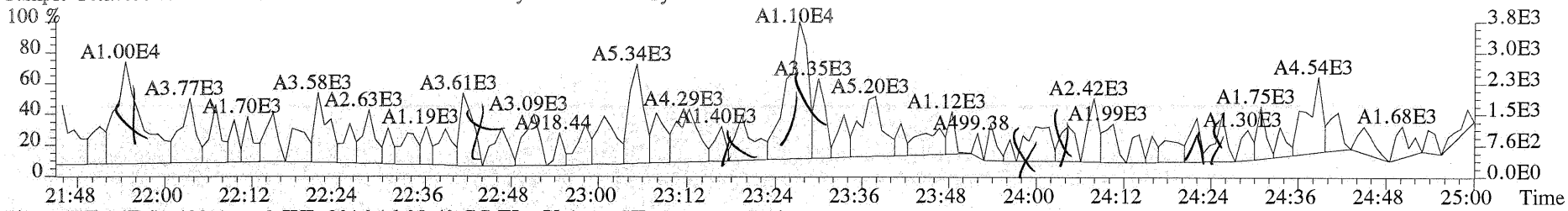
File:02JUL16Z #1-498 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



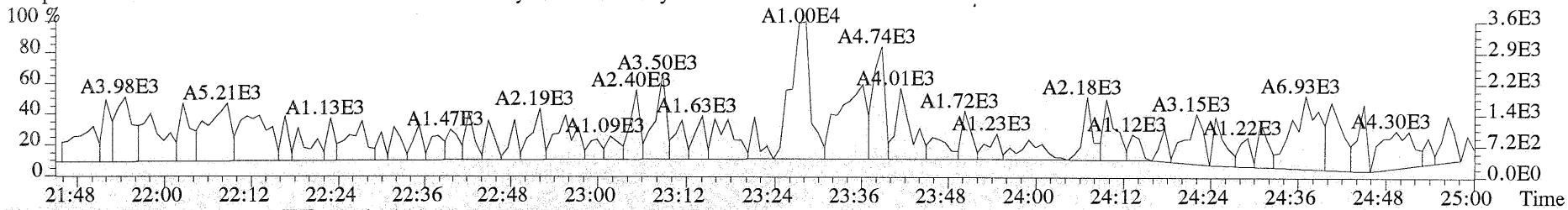
File:02JUL16Z #1-498 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



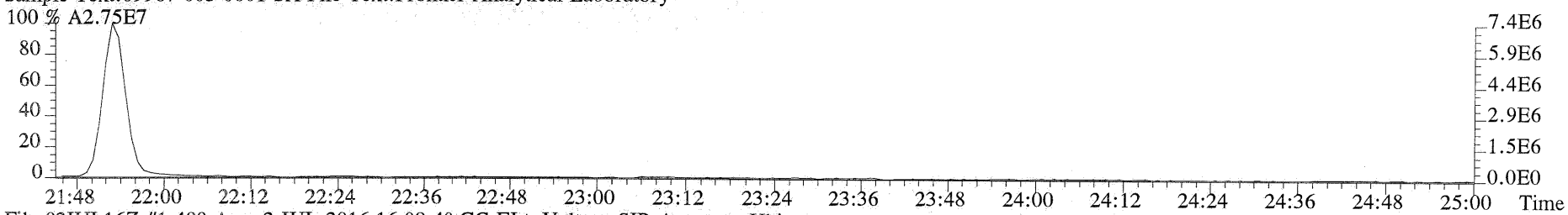
File:02JUL16Z #1-498 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



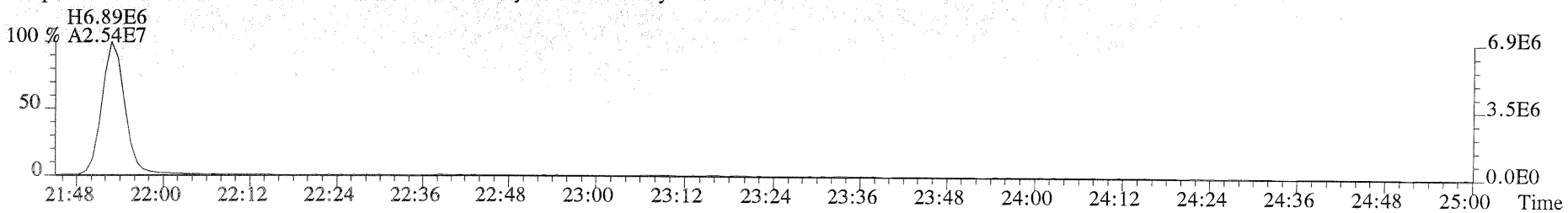
File:02JUL16Z #1-498 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



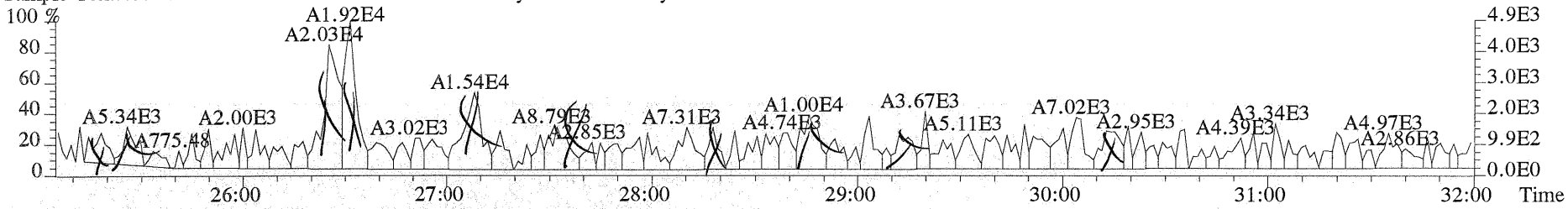
File:02JUL16Z #1-498 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



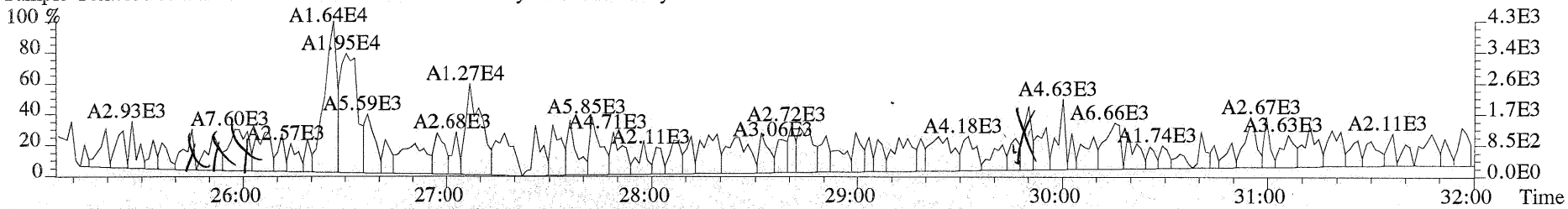
File:02JUL16Z #1-498 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



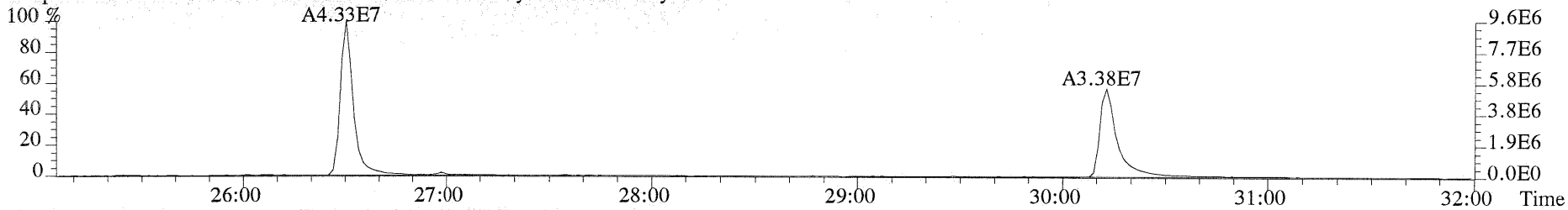
File:02JUL16Z #1-404 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



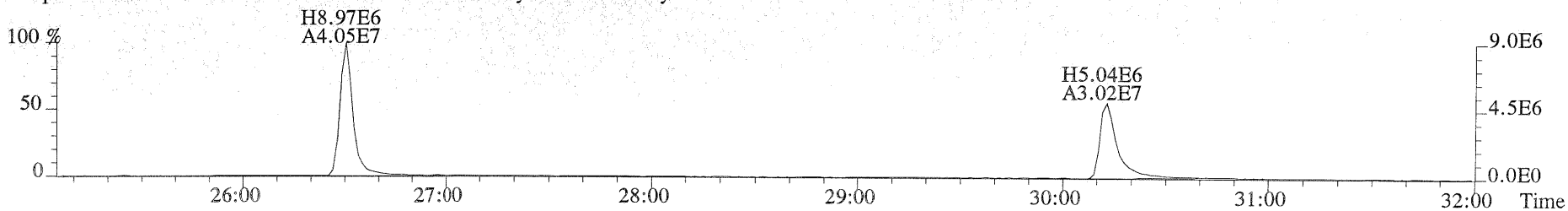
File:02JUL16Z #1-404 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



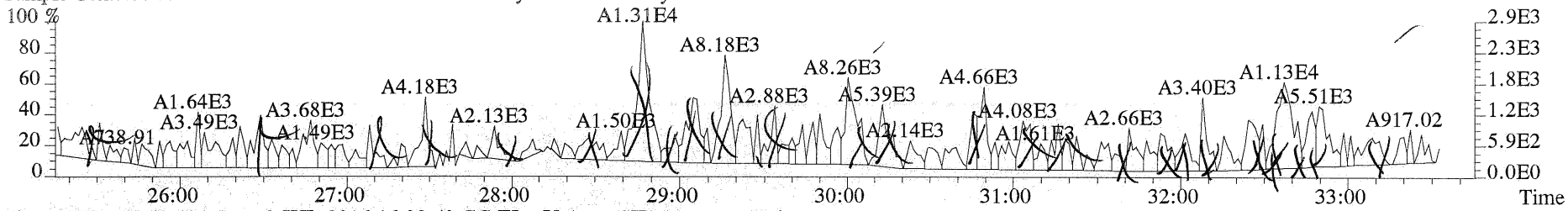
File:02JUL16Z #1-404 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



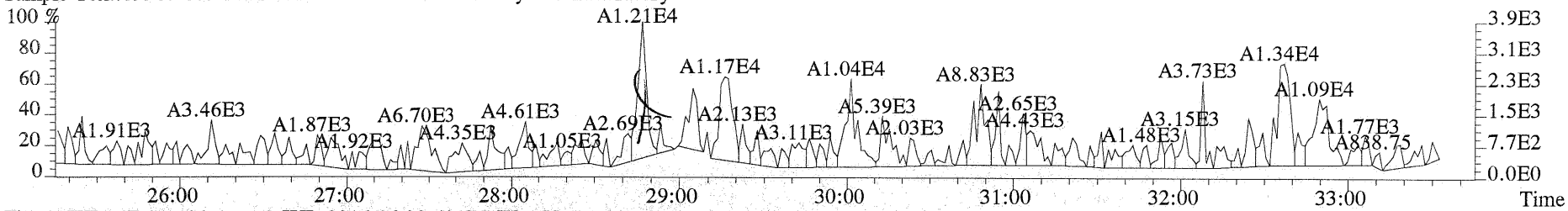
File:02JUL16Z #1-404 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



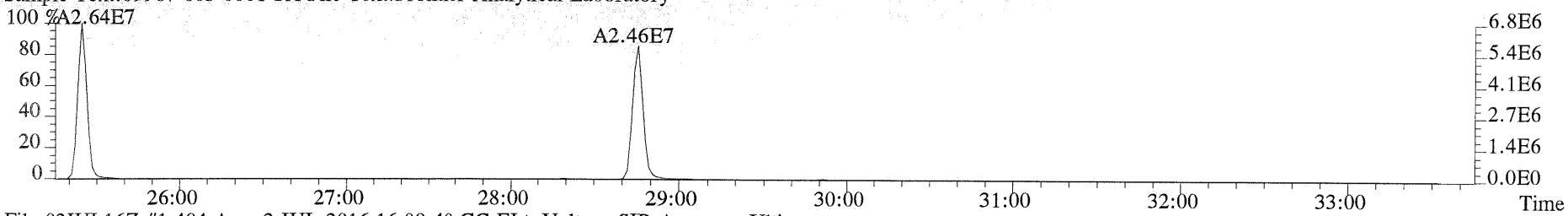
File:02JUL16Z #1-404 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



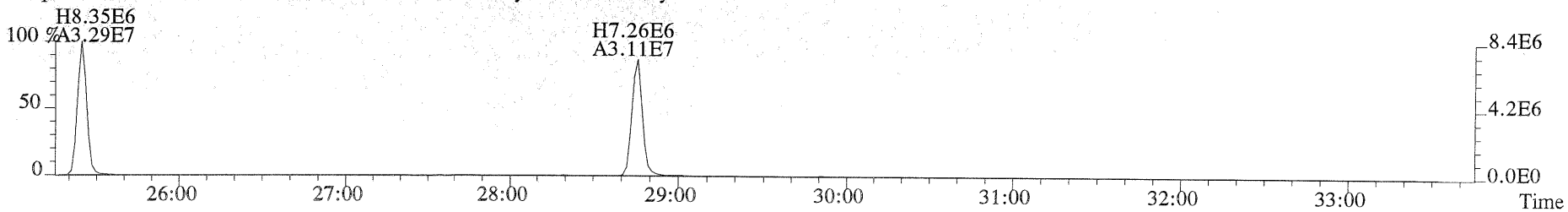
File:02JUL16Z #1-404 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



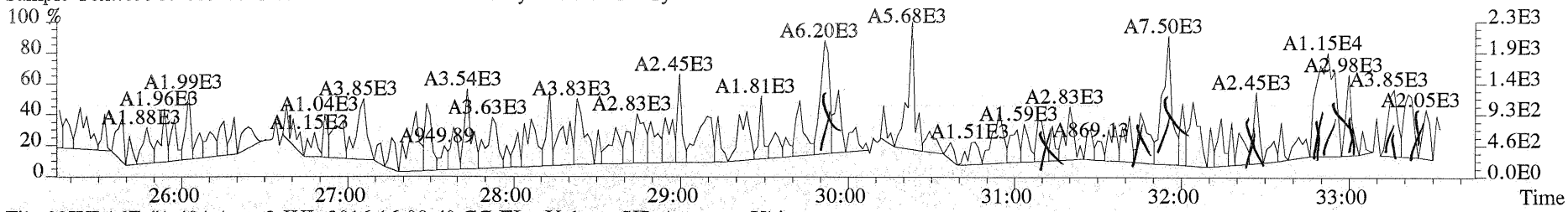
File:02JUL16Z #1-404 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



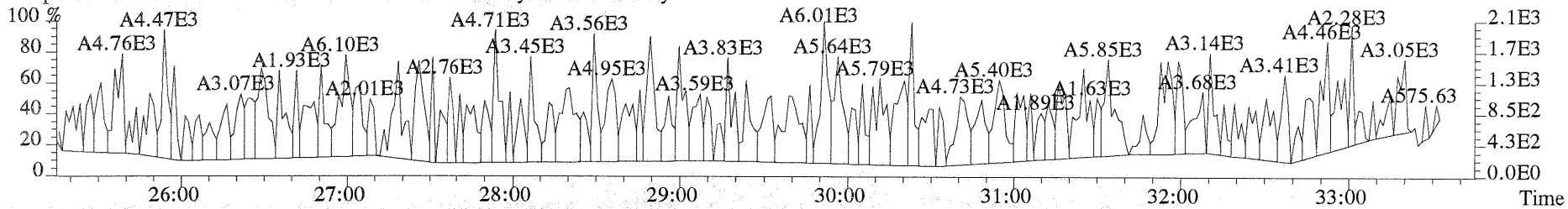
File:02JUL16Z #1-404 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



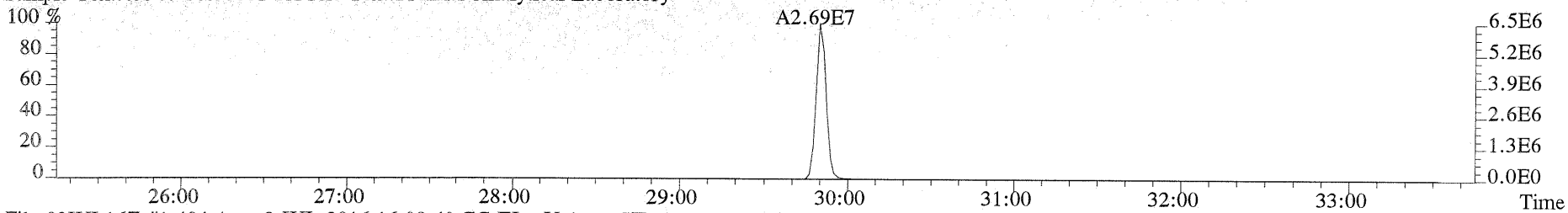
File:02JUL16Z #1-404 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



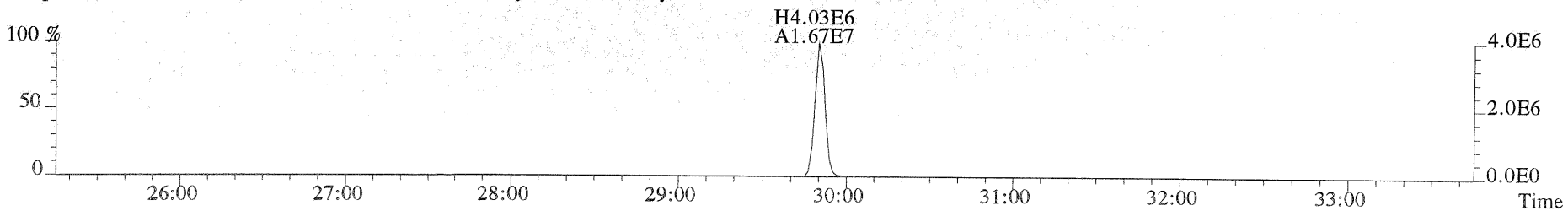
File:02JUL16Z #1-404 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



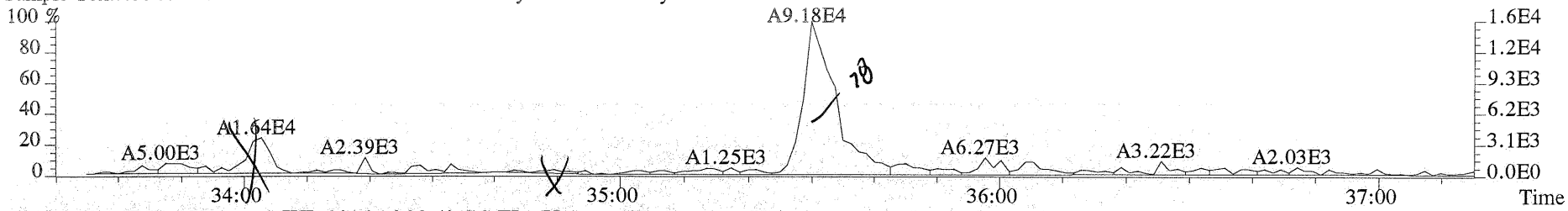
File:02JUL16Z #1-404 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



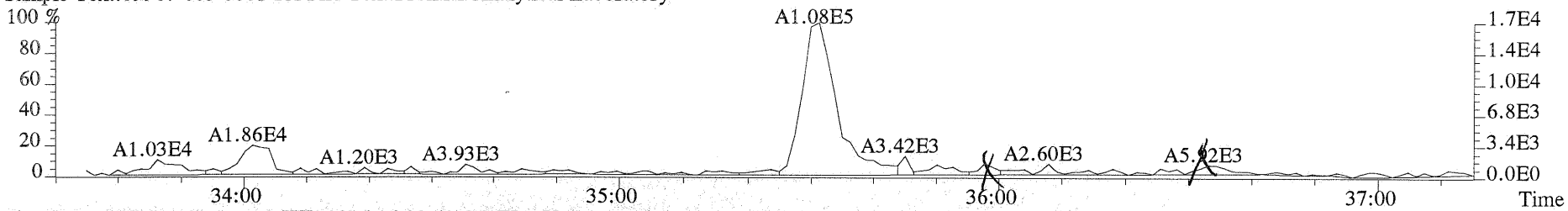
File:02JUL16Z #1-404 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



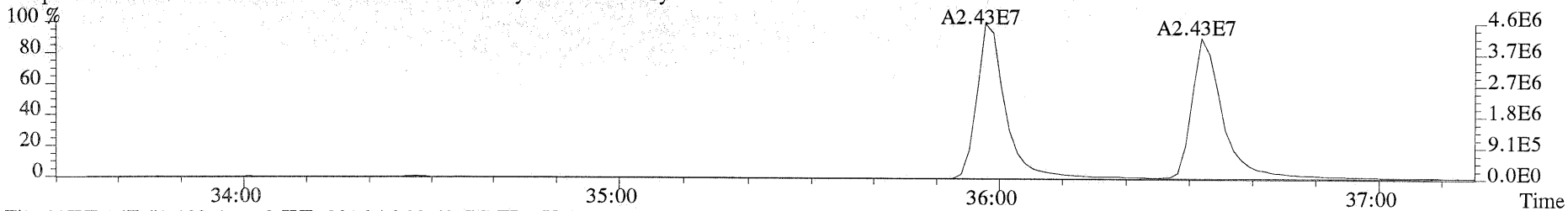
File:02JUL16Z #1-180 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



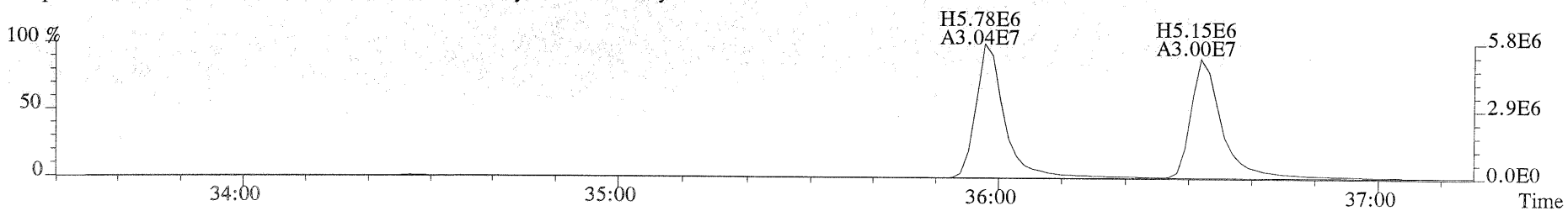
File:02JUL16Z #1-180 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



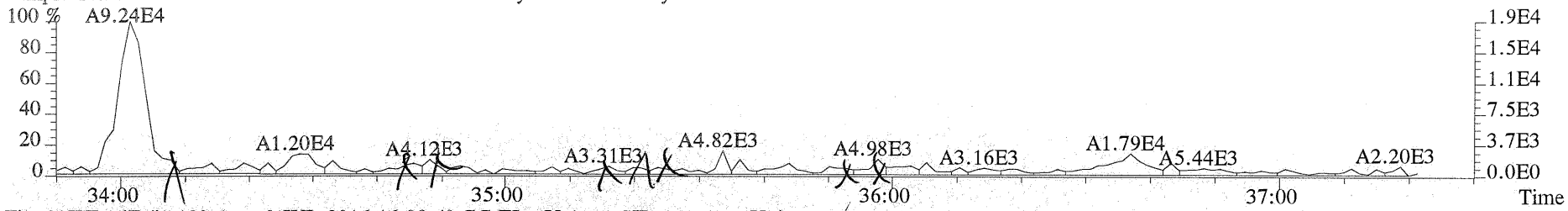
File:02JUL16Z #1-180 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



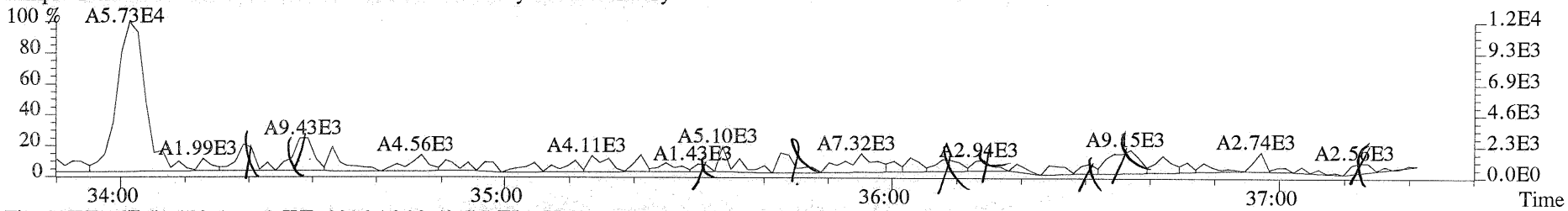
File:02JUL16Z #1-180 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



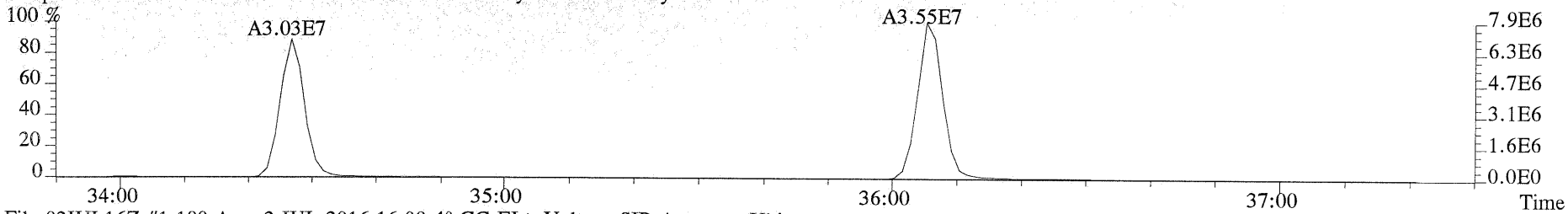
File:02JUL16Z #1-180 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



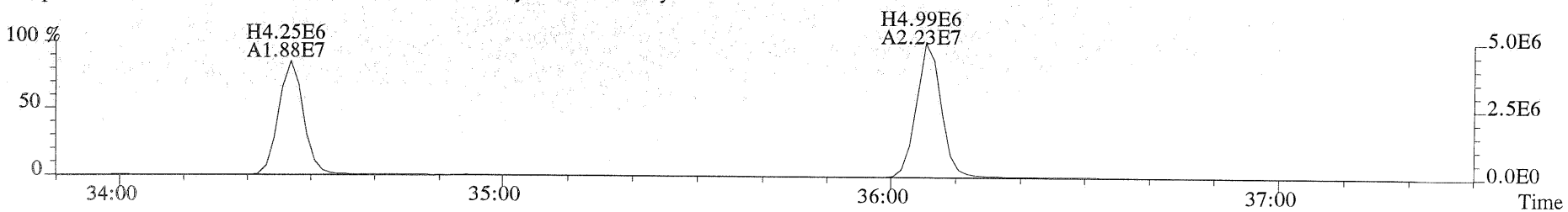
File:02JUL16Z #1-180 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



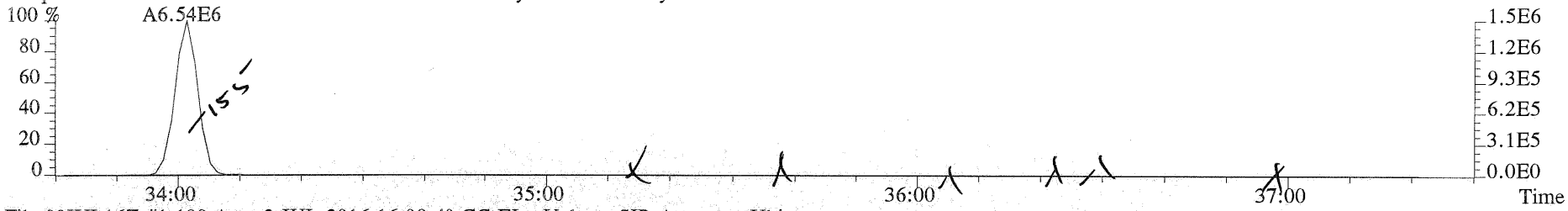
File:02JUL16Z #1-180 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-180 Acq: 2-JUL-2016 16:09:40 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:09967-005-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-180 Acq: 2-JUL-2016 16:09:40 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:09967-005-0001-SA File Text:Frontier Analytical Laboratory



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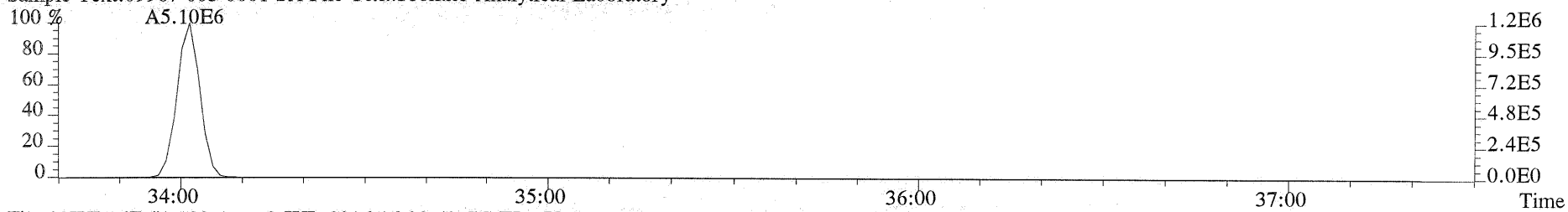
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



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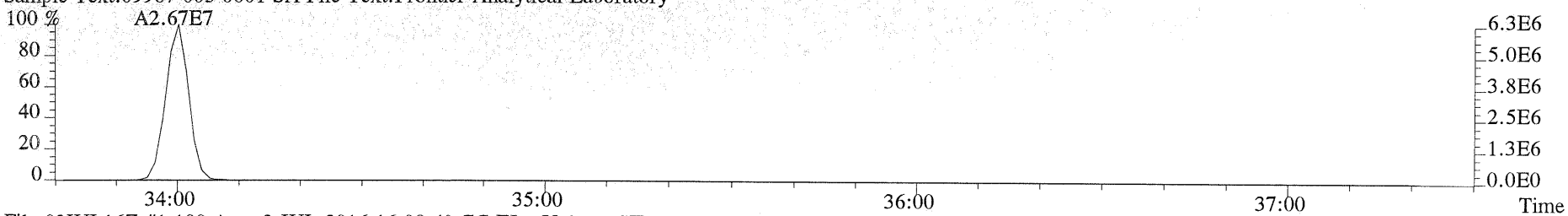
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



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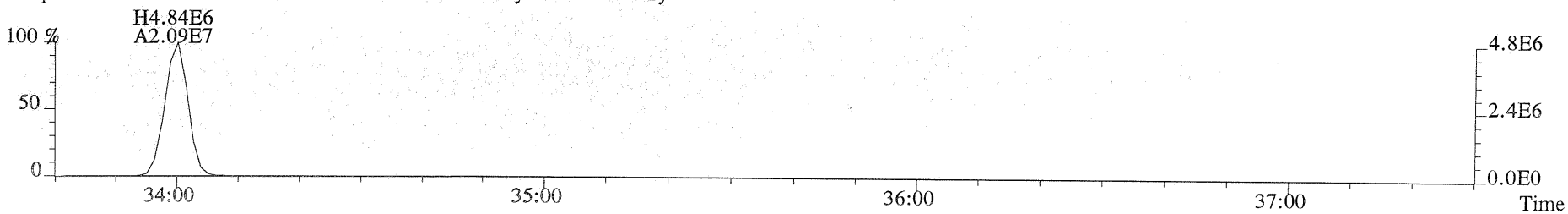
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



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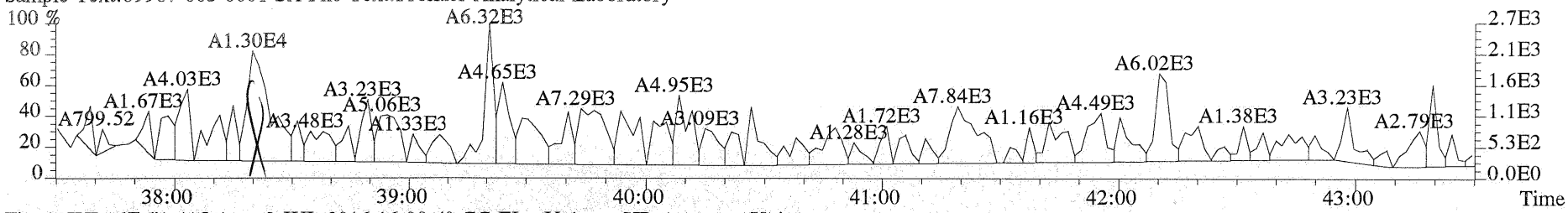
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



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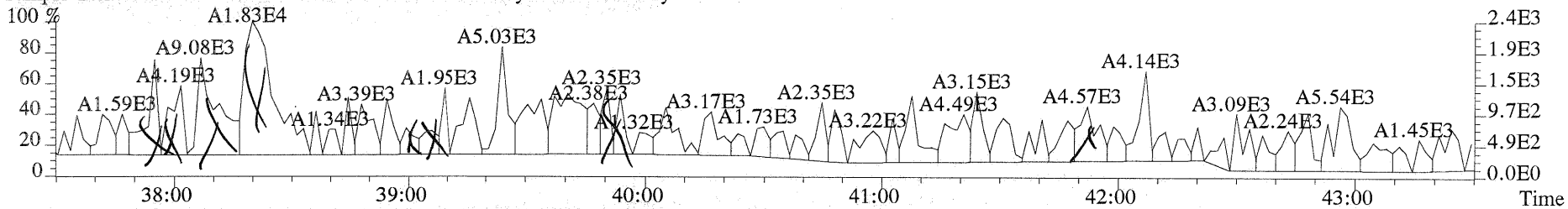
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
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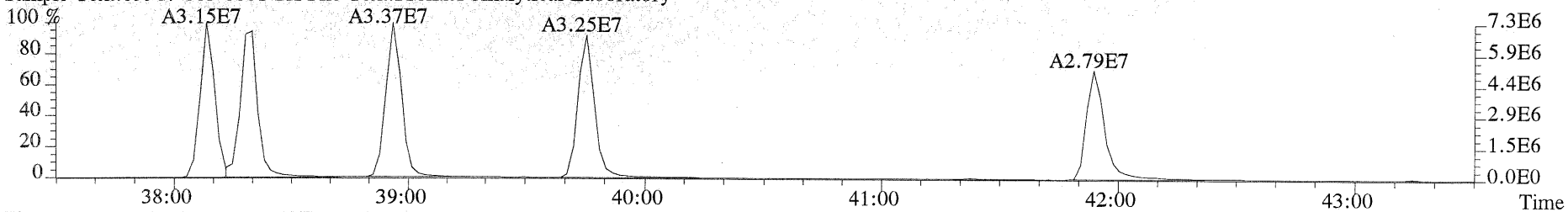
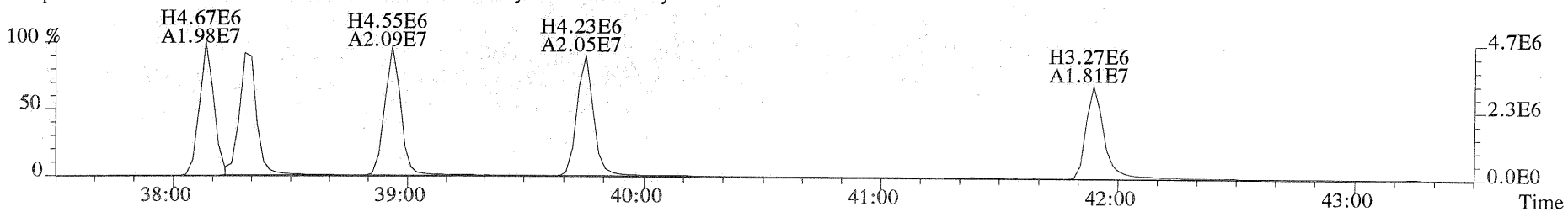
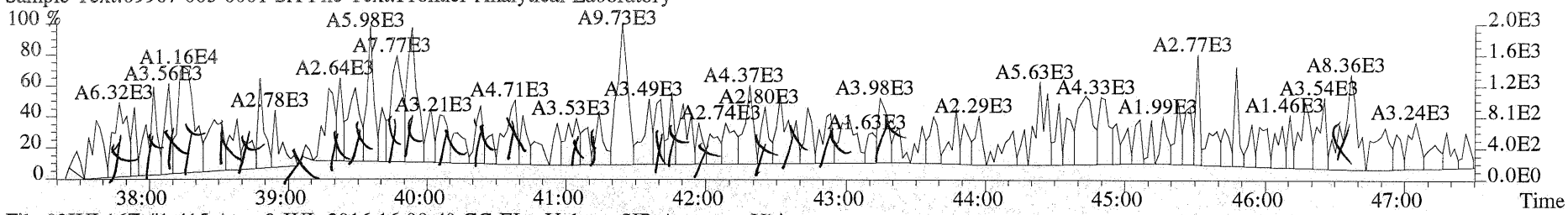
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



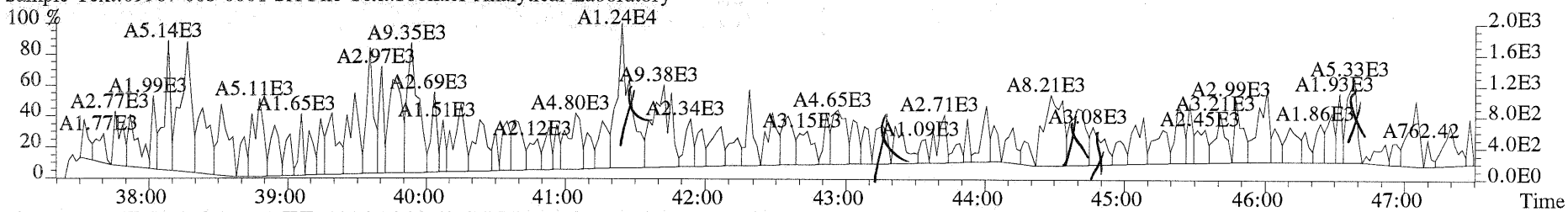
File:02JUL16Z #1-415 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



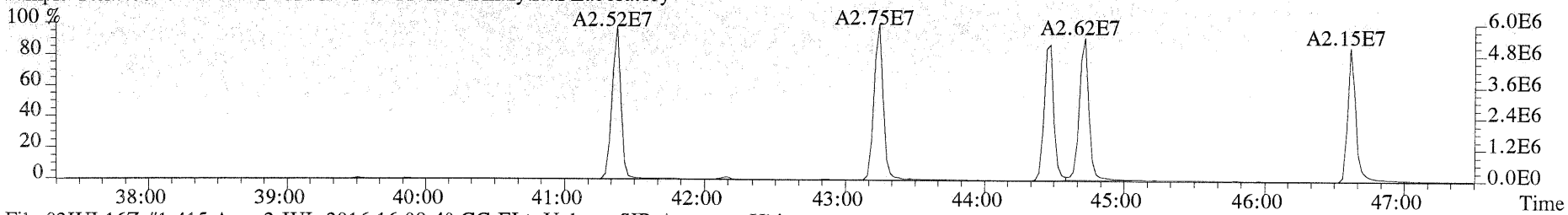
File:02JUL16Z #1-415 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



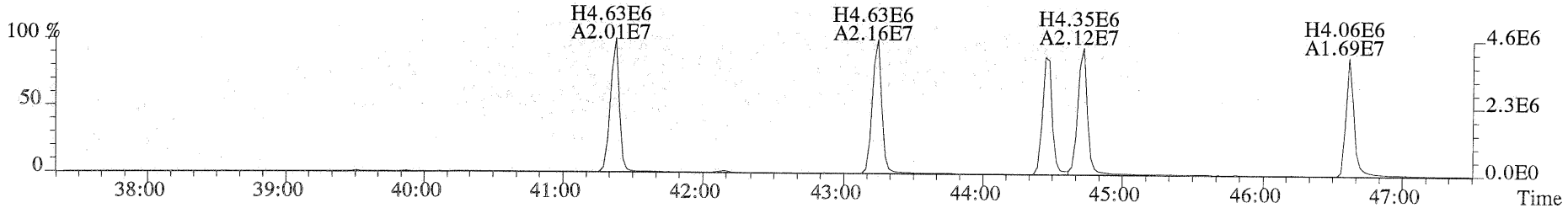
File:02JUL16Z #1-415 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 16:09:40 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:09967-005-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 16:09:40 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:09967-005-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
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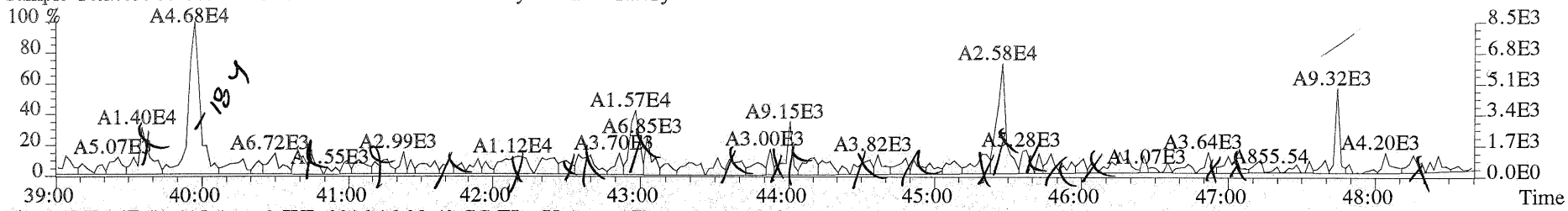

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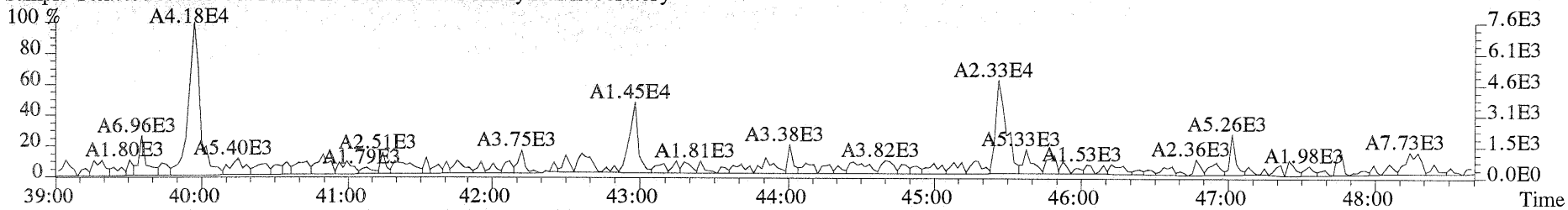
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



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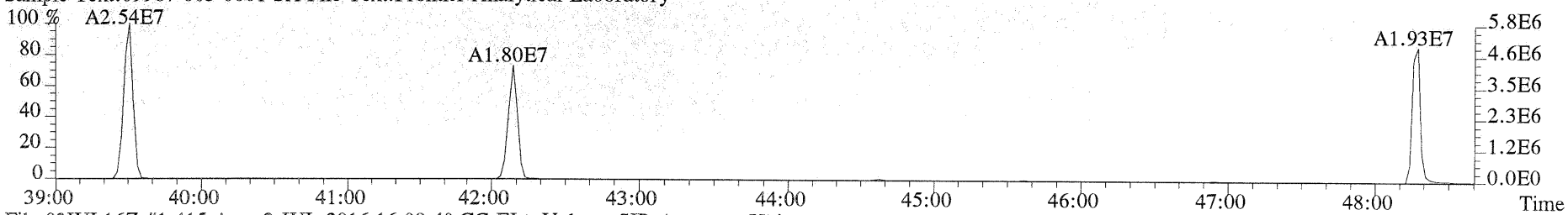
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



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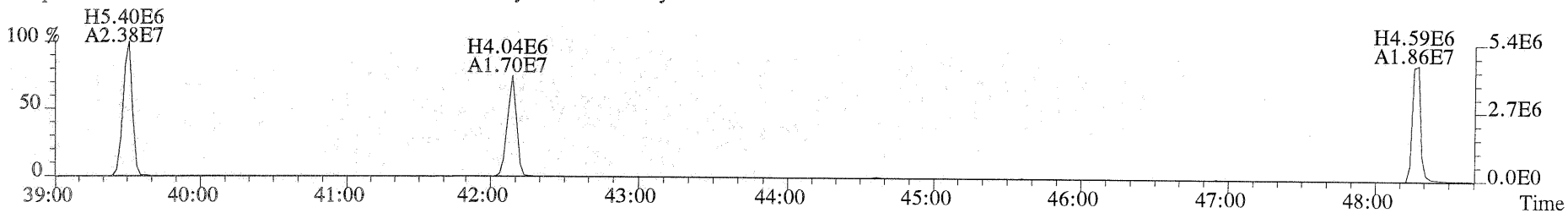
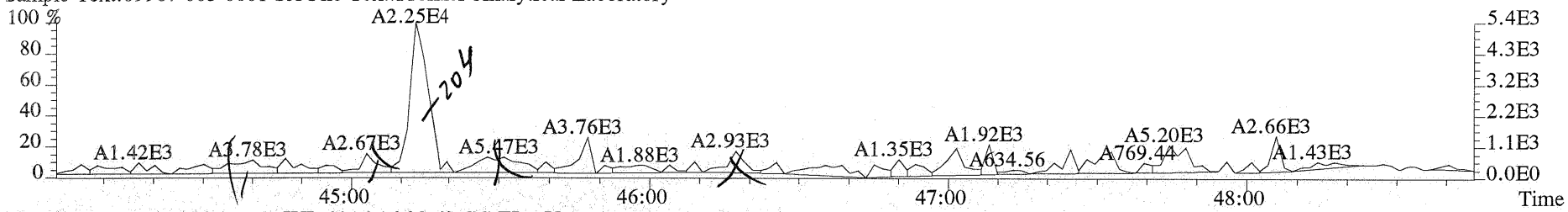
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 16:09:40 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:09967-005-0001-SA File Text:Frontier Analytical Laboratory



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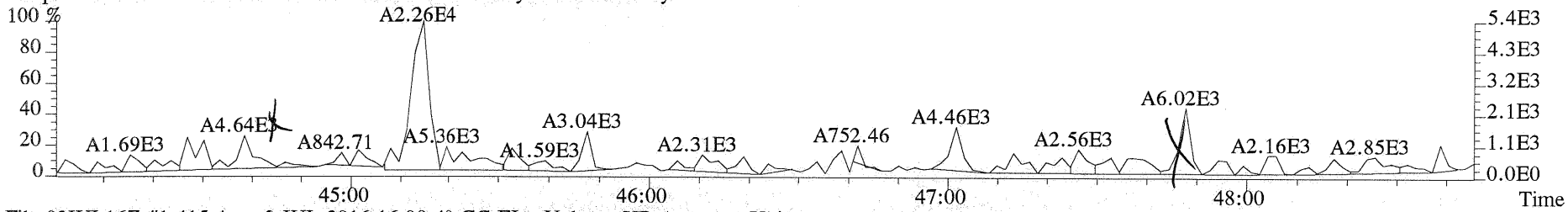
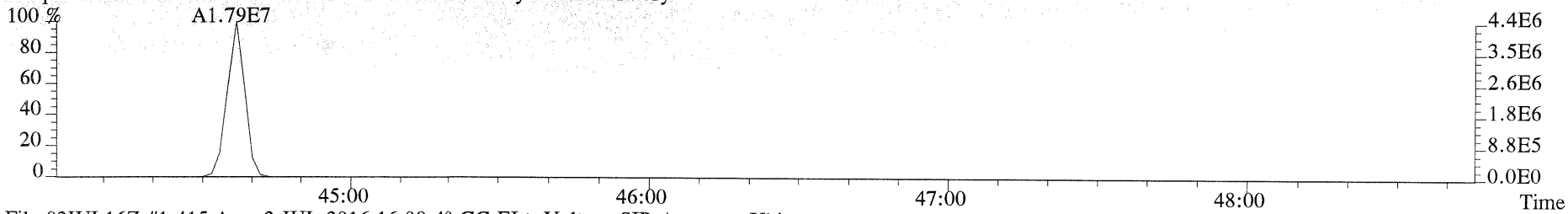
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-415 Acq: 2-JUL-2016 16:09:40 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:09967-005-0001-SA File Text:Frontier Analytical Laboratory



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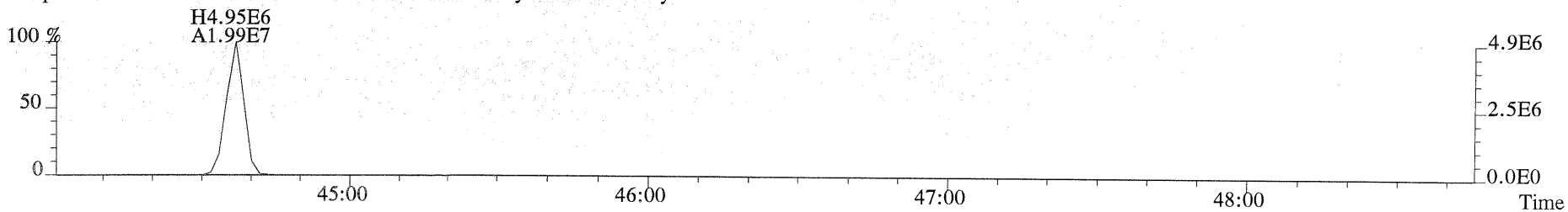
441.8008 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



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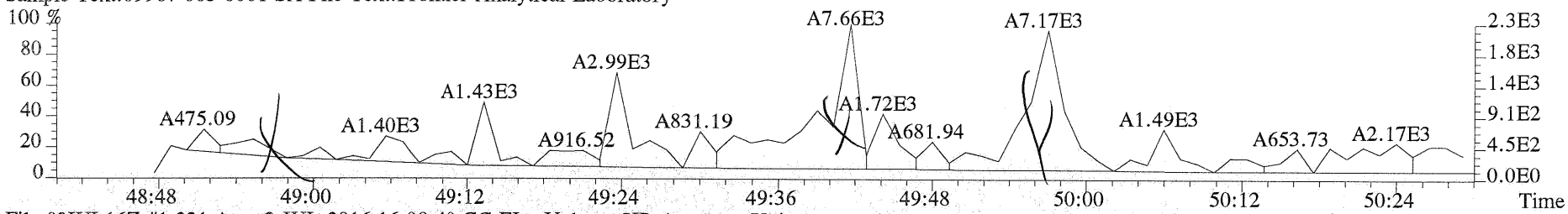
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



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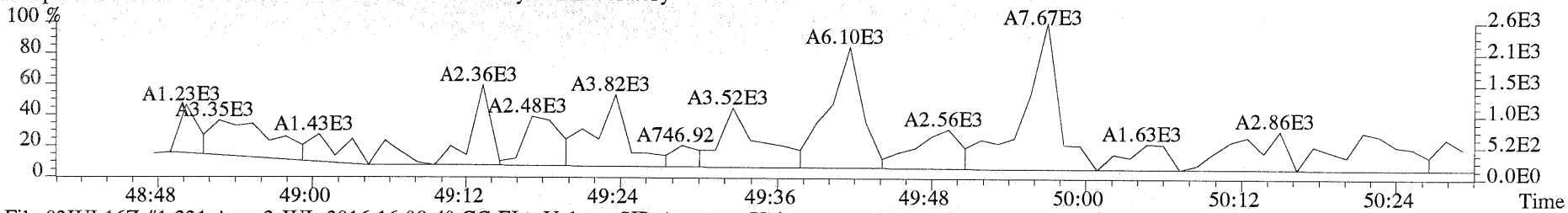
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



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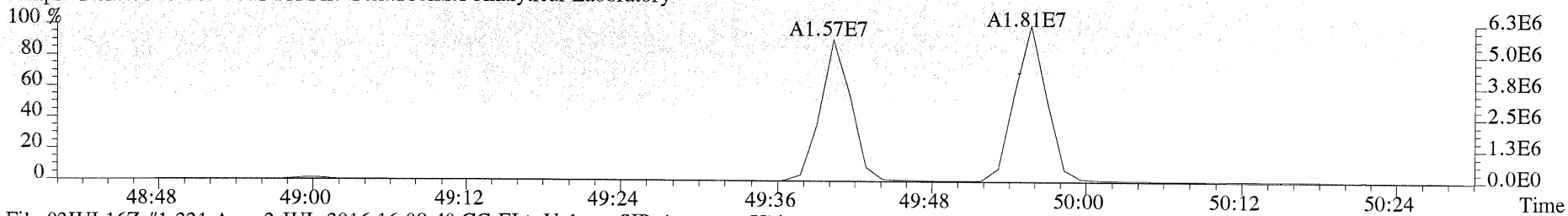
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



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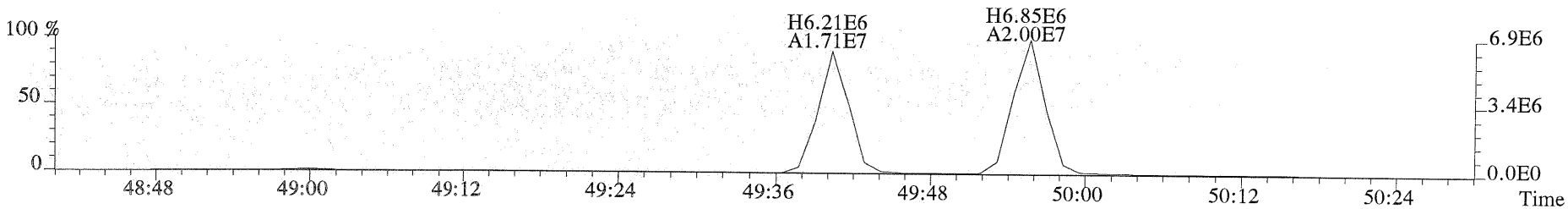
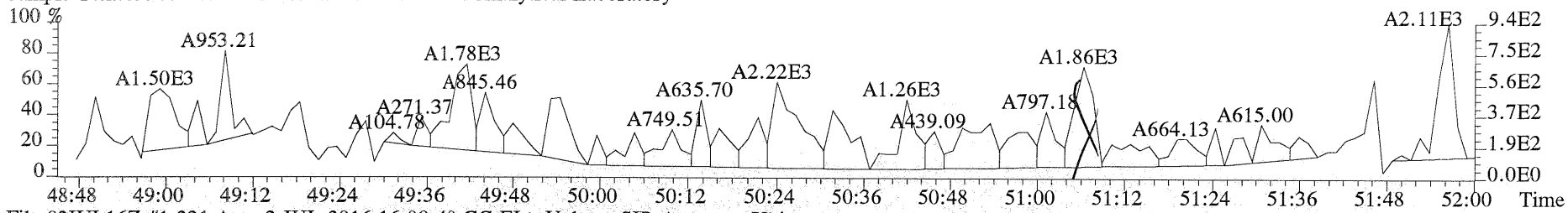
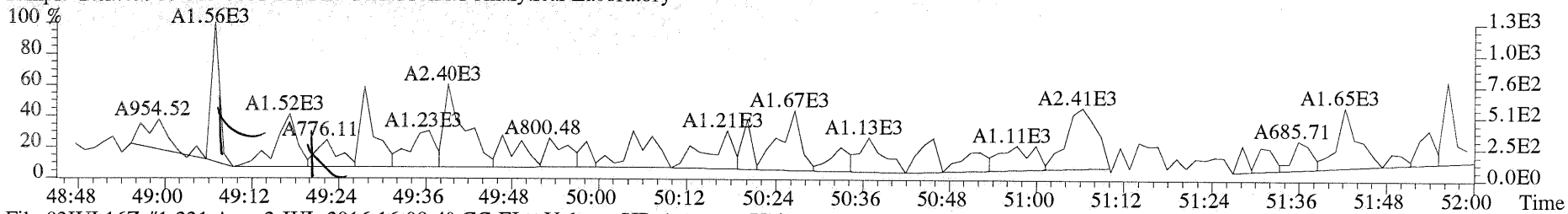
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 16:09:40 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:09967-005-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 16:09:40 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:09967-005-0001-SA File Text:Frontier Analytical Laboratory



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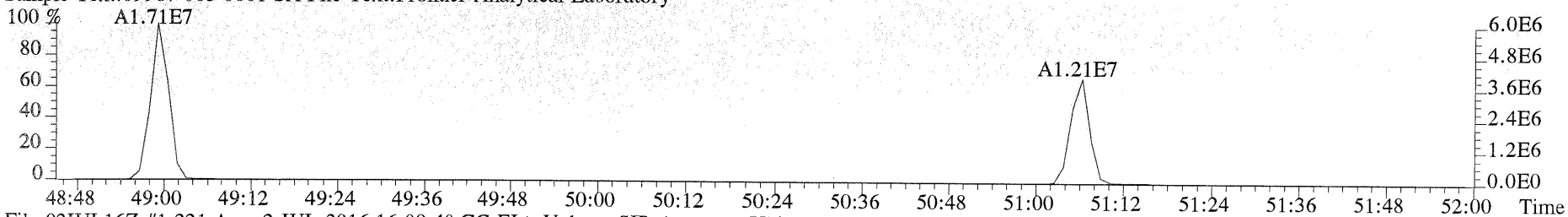
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



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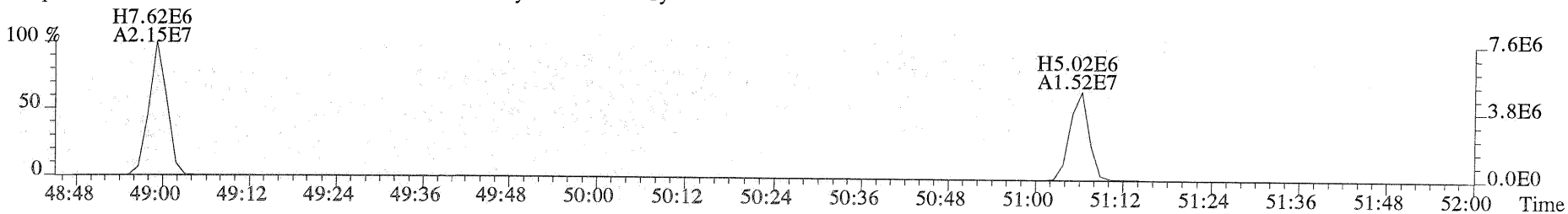
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



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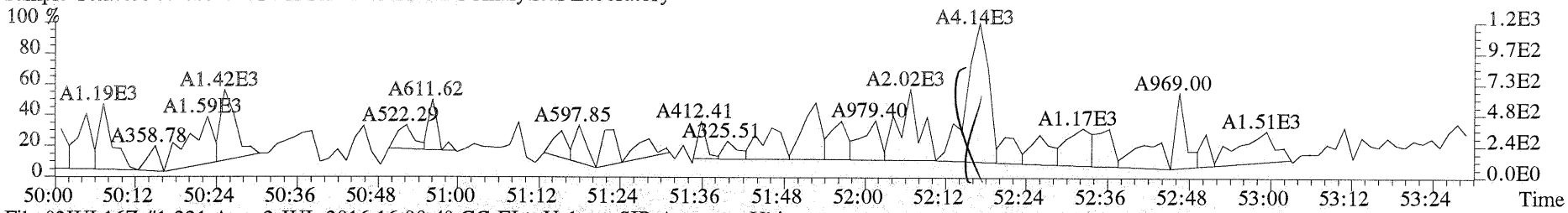
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 16:09:40 GC EI+ Voltage SIR Autospec-Ultima
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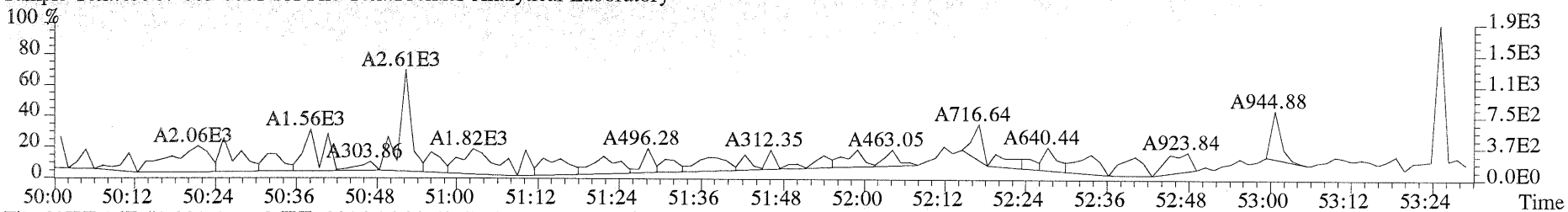
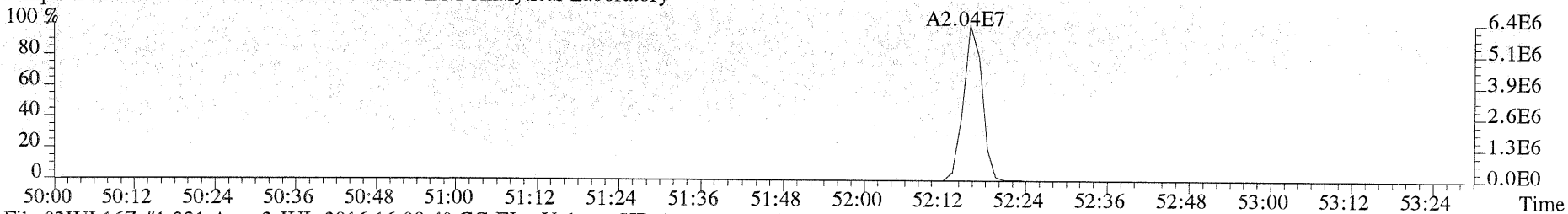
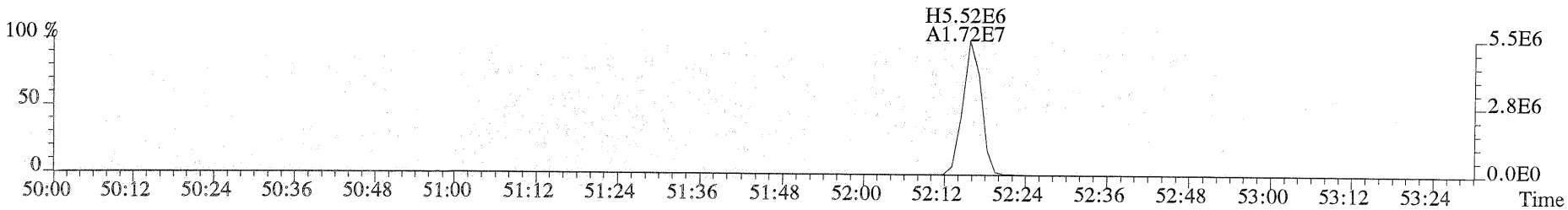
Sample Text:09967-005-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 16:09:40 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:09967-005-0001-SA File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 16:09:40 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:09967-005-0001-SA File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

Data Filename: 08FEB16Z

Analyte: 1668FAL4-2-8-16 Cal: 1668FAL4-2-8-16

Name	RRF	S. D.	%RSD	S2 RRF#1	S3 RRF#2	S4 RRF#3	S1 RRF#4	S5 RRF#5	S6 RRF#6
PCB-1	0.97	0.0526	5.40 %	1.00	1.05	0.98	0.92	0.98	0.91
13C-PCB-1	1.34	0.0794	5.92 %	1.39	1.29	1.31	1.37	1.23	1.46
PCB-3	0.99	0.0339	3.41 %	1.01	1.05	0.99	0.97	0.95	1.00
13C-PCB-3	1.26	0.0119	0.947 %	1.28	1.25	1.25	1.24	1.25	1.25
PCB-4	1.08	0.0873	8.07 %	1.22	1.16	1.05	1.01	1.03	1.01
13C-PCB-4	0.66	0.0160	2.41 %	0.67	0.66	0.66	0.67	0.65	0.69
PCB-15	1.06	0.0382	3.61 %	1.10	1.11	1.01	1.04	1.04	1.05
13C-PCB-15	1.00	0.0355	3.56 %	0.99	1.01	1.01	0.94	0.98	1.05
PCB-19	1.00	0.0569	5.70 %	0.96	1.11	1.02	0.98	0.95	0.97
13C-PCB-19	0.76	0.0563	7.40 %	0.87	0.73	0.73	0.75	0.74	0.76
13C-PCB-9	-	-	- %	-	-	-	-	-	-
PCB-37	1.12	0.0719	6.42 %	1.25	1.15	1.10	1.09	1.07	1.06
13C-PCB-37	1.08	0.0596	5.52 %	1.03	1.09	1.07	1.03	1.07	1.19
PCB-54	0.97	0.0430	4.44 %	1.03	1.00	0.96	0.94	0.95	0.92
13C-PCB-54	1.23	0.0264	2.14 %	1.20	1.24	1.20	1.24	1.26	1.25
PCB-104	1.10	0.0807	7.34 %	1.23	1.17	1.08	1.03	1.05	1.05
13C-PCB-104	1.09	0.0367	3.36 %	1.07	1.09	1.08	1.06	1.09	1.16
13C-PCB-28	1.14	0.0462	4.05 %	1.19	1.10	1.08	1.19	1.13	1.14
13C-PCB-52	-	-	- %	-	-	-	-	-	-
PCB-81	1.15	0.0706	6.14 %	1.29	1.15	1.11	1.14	1.13	1.10
13C-PCB-81	1.01	0.0722	7.11 %	0.96	1.04	1.02	0.92	1.01	1.14
PCB-77	1.13	0.0745	6.60 %	1.25	1.19	1.12	1.07	1.08	1.07
13C-PCB-77	1.02	0.0735	7.22 %	1.03	0.99	0.99	0.94	1.01	1.15
PCB-155	1.09	0.0906	8.32 %	1.24	1.16	1.08	1.03	1.03	1.01
13C-PCB-155	1.29	0.0638	4.96 %	1.29	1.24	1.21	1.31	1.27	1.40
13C-PCB-111	1.22	0.0267	2.19 %	1.23	1.19	1.19	1.22	1.21	1.26
13C-PCB-101	-	-	- %	-	-	-	-	-	-
PCB-123	1.07	0.127	11.9 %	1.31	1.09	1.00	0.99	0.99	1.02
13C-PCB-123	1.07	0.0851	7.94 %	1.04	1.01	1.00	1.05	1.12	1.22
PCB-118	1.07	0.0937	8.77 %	1.25	1.06	0.97	1.06	1.05	1.04
13C-PCB-118	1.19	0.0976	8.21 %	1.14	1.11	1.12	1.18	1.22	1.37
PCB-114	1.06	0.0838	7.91 %	1.18	1.16	1.00	1.02	1.01	0.99
13C-PCB-114	1.11	0.100	9.07 %	1.08	1.04	0.97	1.11	1.20	1.24
PCB-105	1.07	0.0538	5.03 %	1.11	1.15	1.04	1.02	1.02	1.06
13C-PCB-105	1.11	0.102	9.11 %	1.09	1.03	1.02	1.09	1.16	1.30
PCB-126	1.08	0.0952	8.85 %	1.24	1.15	1.01	1.02	1.02	1.02
13C-PCB-126	1.02	0.0907	8.88 %	1.03	0.98	0.99	0.90	1.05	1.17
PCB-167	0.97	0.0557	5.76 %	1.07	0.99	0.94	0.93	0.94	0.93
13C-PCB-167	1.21	0.115	9.52 %	1.15	1.13	1.14	1.18	1.26	1.43
PCB-156	1.01	0.0964	9.52 %	1.20	1.04	0.98	0.95	0.95	0.95
13C-PCB-156	1.12	0.126	11.3 %	1.05	1.03	1.05	1.06	1.18	1.35
PCB-157	0.94	0.0630	6.67 %	1.06	0.95	0.91	0.92	0.93	0.88
13C-PCB-157	1.20	0.134	11.2 %	1.14	1.11	1.10	1.14	1.24	1.45
PCB-169	0.97	0.0734	7.54 %	1.10	1.02	0.95	0.91	0.93	0.92
13C-PCB-169	0.98	0.127	13.0 %	0.95	0.88	0.87	0.94	1.02	1.22
PCB-188	1.13	0.0635	5.64 %	1.18	1.23	1.10	1.06	1.12	1.08
13C-PCB-188	1.41	0.133	9.44 %	1.42	1.23	1.30	1.50	1.39	1.60
PCB-189	1.17	0.0769	6.55 %	1.31	1.21	1.17	1.09	1.14	1.13
13C-PCB-189	0.89	0.109	12.2 %	0.88	0.80	0.78	0.94	0.88	1.08
PCB-202	1.12	0.0705	6.32 %	1.22	1.17	1.11	1.03	1.06	1.09
13C-PCB-202	1.06	0.136	12.9 %	1.02	0.89	0.93	1.14	1.11	1.26
13C-PCB-178	0.83	0.0550	6.62 %	0.83	0.76	0.76	0.88	0.87	0.88
13C-PCB-138	-	-	- %	-	-	-	-	-	-

PCB-205	1.13	0.128	11.3	%	1.38	1.08	1.01	1.08	1.11	1.13
13C-PCB-205	1.47	0.0977	6.67	%	1.35	1.45	1.53	1.38	1.45	1.62
PCB-208	0.91	0.0676	7.43	%	1.02	0.96	0.92	0.85	0.86	0.86
13C-PCB-208	2.00	0.220	11.0	%	1.85	1.89	1.90	1.87	2.05	2.42
PCB-206	0.96	0.0534	5.56	%	1.05	1.00	0.95	0.90	0.93	0.93
13C-PCB-206	1.40	0.166	11.9	%	1.27	1.30	1.35	1.30	1.44	1.71
PCB-209	1.13	0.151	13.4	%	1.42	1.04	0.99	1.09	1.11	1.12
13C-PCB-209	2.10	0.243	11.6	%	1.78	2.24	2.27	1.88	2.03	2.40
13C-PCB-194	-	-	-	%	-	-	-	-	-	-

Analyst: [illegible] Date: 2/9/16

Run #1 Filename 08FEB16Z S: 2 Acquired: 8-FEB-16 07:25:55 Cal: 1668FAL4-2-8-16
Client ID: ST020816Z0 Analyte: FAL ID: 1668 CS0 R151116A

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	0.20	4.46e+05	3.07	y	14:28	-	0.999	y
2	IS/RT	13C-PCB-1	100.00	2.23e+08	2.93	y	14:27	-	1.39	y
3	Unk	PCB-3	0.20	4.13e+05	3.05	y	16:54	-	1.01	y
4	IS/RT	13C-PCB-3	100.00	2.05e+08	3.03	y	16:53	-	1.28	y
5	Unk	PCB-4	0.20	2.63e+05	1.33	y	18:08	-	1.22	y
6	IS/RT	13C-PCB-4	100.00	1.08e+08	1.56	y	18:07	-	0.669	y
7	Unk	PCB-15	0.20	3.51e+05	1.37	y	23:41	-	1.10	y
8	IS/RT	13C-PCB-15	100.00	1.60e+08	1.57	y	23:40	-	0.994	y
9	Unk	PCB-19	0.20	2.71e+05	1.04	y	22:02	-	0.964	y
10	IS/RT	13C-PCB-19	100.00	1.40e+08	1.15	y	22:00	-	0.874	y
11	RS	13C-PCB-9	100.00	1.61e+08	1.56	y	19:48	1.61e+06	-	n
12	Unk	PCB-37	0.20	2.66e+05	1.17	y	30:21	-	1.25	y
13	IS	13C-PCB-37	100.00	1.07e+08	1.06	y	30:18	-	1.03	y
14	Unk	PCB-54	0.20	2.58e+05	0.84	y	25:34	-	1.03	y
15	IS/RT	13C-PCB-54	100.00	1.25e+08	0.79	y	25:33	-	1.20	y
16	Unk	PCB-104	0.20	2.73e+05	1.40	y	30:01	-	1.23	y
17	IS	13C-PCB-104	100.00	1.11e+08	1.59	y	29:59	-	1.07	y
18	C/Up	13C-PCB-28	100.00	1.24e+08	1.07	y	26:37	-	1.19	y
19	RS	13C-PCB-52	100.00	1.04e+08	0.79	y	28:54	1.04e+06	-	n
20	Unk	PCB-81	0.20	2.12e+05	0.72	y	36:07	-	1.29	y
21	IS	13C-PCB-81	100.00	8.22e+07	0.81	y	36:06	-	0.964	y
22	Unk	PCB-77	0.20	2.20e+05	0.79	y	36:40	-	1.25	y
23	IS/RT	13C-PCB-77	100.00	8.82e+07	0.79	y	36:40	-	1.03	y
24	Unk	PCB-155	0.20	2.72e+05	1.36	y	34:11	-	1.24	y
25	IS	13C-PCB-155	100.00	1.10e+08	1.25	y	34:09	-	1.29	y
26	C/Up	13C-PCB-111	100.00	1.05e+08	1.55	y	36:13	-	1.23	y
27	RS	13C-PCB-101	100.00	8.53e+07	1.58	y	34:36	8.53e+05	-	n
28	Unk	PCB-123	0.20	1.93e+05	1.36	y	38:19	-	1.31	y
29	IS	13C-PCB-123	100.00	7.35e+07	1.56	y	38:17	-	1.04	y
30	Unk	PCB-118	0.20	2.01e+05	1.53	y	38:29	-	1.25	y
31	IS	13C-PCB-118	100.00	8.05e+07	1.59	y	38:27	-	1.14	y
32	Unk	PCB-114	0.20	1.79e+05	1.57	y	39:05	-	1.18	y
33	IS	13C-PCB-114	100.00	7.61e+07	1.56	y	39:05	-	1.08	y
34	Unk	PCB-105	0.20	1.71e+05	1.34	y	39:54	-	1.11	y
35	IS	13C-PCB-105	100.00	7.68e+07	1.57	y	39:53	-	1.09	y
36	Unk	PCB-126	0.20	1.80e+05	1.43	y	42:03	-	1.24	y
37	IS	13C-PCB-126	100.00	7.29e+07	1.55	y	42:01	-	1.03	y
38	Unk	PCB-167	0.20	1.74e+05	1.15	y	43:23	-	1.07	y
39	IS	13C-PCB-167	100.00	8.13e+07	1.24	y	43:22	-	1.15	y
40	Unk	PCB-156	0.20	1.78e+05	1.11	y	44:37	-	1.20	y
41	IS	13C-PCB-156	100.00	7.45e+07	1.24	y	44:36	-	1.05	y
42	Unk	PCB-157	0.20	1.72e+05	1.09	y	44:52	-	1.06	y
43	IS	13C-PCB-157	100.00	8.08e+07	1.25	y	44:52	-	1.14	y
44	Unk	PCB-169	0.20	1.48e+05	1.06	y	46:46	-	1.10	y
45	IS	13C-PCB-169	100.00	6.72e+07	1.25	y	46:44	-	0.949	y
46	Unk	PCB-188	0.20	2.36e+05	1.05	y	39:39	-	1.18	y
47	IS	13C-PCB-188	100.00	1.00e+08	1.06	y	39:39	-	1.42	y
48	Unk	PCB-189	0.20	1.62e+05	1.07	y	48:25	-	1.31	y
49	IS	13C-PCB-189	100.00	6.21e+07	1.04	y	48:25	-	0.878	y
50	Unk	PCB-202	0.20	1.77e+05	0.80	y	44:47	-	1.22	y
51	IS	13C-PCB-202	100.00	7.23e+07	0.92	y	44:46	-	1.02	y
52	C/Up	13C-PCB-178	100.00	5.87e+07	1.04	y	42:17	-	0.829	y
53	RS	13C-PCB-138	100.00	7.08e+07	1.24	y	41:31	7.08e+05	-	n

54	Unk	PCB-205	0.20	1.15e+05	0.94	y	50:02	-	1.38	y
55	IS	13C-PCB-205	100.00	4.18e+07	0.91	y	50:02	-	1.35	y
56	Unk	PCB-208	0.20	1.16e+05	1.28	y	49:07	-	1.02	y
57	IS	13C-PCB-208	100.00	5.71e+07	0.78	y	49:06	-	1.85	y
58	Unk	PCB-206	0.20	8.23e+04	1.34	y	51:14	-	1.05	y
59	IS	13C-PCB-206	100.00	3.93e+07	0.78	y	51:13	-	1.27	y
60	Unk	PCB-209	0.20	1.56e+05	1.16	y	52:25	-	1.42	y
61	IS	13C-PCB-209	100.00	5.50e+07	1.20	y	52:24	-	1.78	y
62	RS	13C-PCB-194	100.00	3.08e+07	0.93	y	49:47	3.08e+05	-	n

Analyst: [illegible] Date: 2/9/16

Run #2 Filename 08FEB16Z S: 3 Acquired: 8-FEB-16 08:25:50 Cal: 1668FAL4-2-8-16
Client ID: ST020816Z1 Analyte: FAL ID: 1668 CS1 R121023B

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	1.00	2.62e+06	2.91	y	14:28	-	1.05	y
2	IS/RT	13C-PCB-1	100.00	2.49e+08	3.06	y	14:27	-	1.29	y
3	Unk	PCB-3	1.00	2.54e+06	2.84	y	16:54	-	1.05	y
4	IS/RT	13C-PCB-3	100.00	2.43e+08	3.03	y	16:53	-	1.25	y
5	Unk	PCB-4	1.00	1.47e+06	1.54	y	18:09	-	1.16	y
6	IS/RT	13C-PCB-4	100.00	1.27e+08	1.57	y	18:07	-	0.656	y
7	Unk	PCB-15	1.00	2.16e+06	1.49	y	23:41	-	1.11	y
8	IS/RT	13C-PCB-15	100.00	1.95e+08	1.57	y	23:40	-	1.01	y
9	Unk	PCB-19	1.00	1.56e+06	1.05	y	22:02	-	1.11	y
10	IS/RT	13C-PCB-19	100.00	1.41e+08	1.06	y	22:01	-	0.730	y
11	RS	13C-PCB-9	100.00	1.94e+08	1.55	y	19:48	1.94e+06	-	n
12	Unk	PCB-37	1.00	1.53e+06	1.00	y	30:20	-	1.15	y
13	IS	13C-PCB-37	100.00	1.33e+08	1.05	y	30:18	-	1.09	y
14	Unk	PCB-54	1.00	1.52e+06	0.80	y	25:34	-	1.00	y
15	IS/RT	13C-PCB-54	100.00	1.51e+08	0.80	y	25:33	-	1.24	y
16	Unk	PCB-104	1.00	1.56e+06	1.52	y	30:01	-	1.17	y
17	IS	13C-PCB-104	100.00	1.33e+08	1.60	y	29:59	-	1.09	y
18	C/Up	13C-PCB-28	100.00	1.34e+08	1.03	y	26:37	-	1.10	y
19	RS	13C-PCB-52	100.00	1.22e+08	0.79	y	28:54	1.22e+06	-	n
20	Unk	PCB-81	1.00	1.25e+06	0.78	y	36:06	-	1.15	y
21	IS	13C-PCB-81	100.00	1.09e+08	0.80	y	36:05	-	1.04	y
22	Unk	PCB-77	1.00	1.24e+06	0.74	y	36:40	-	1.19	y
23	IS/RT	13C-PCB-77	100.00	1.04e+08	0.81	y	36:39	-	0.986	y
24	Unk	PCB-155	1.00	1.52e+06	1.19	y	34:11	-	1.16	y
25	IS	13C-PCB-155	100.00	1.31e+08	1.26	y	34:09	-	1.24	y
26	C/Up	13C-PCB-111	100.00	1.26e+08	1.56	y	36:13	-	1.19	y
27	RS	13C-PCB-101	100.00	1.05e+08	1.58	y	34:35	1.05e+06	-	n
28	Unk	PCB-123	1.00	9.99e+05	1.45	y	38:17	-	1.09	y
29	IS	13C-PCB-123	100.00	9.16e+07	1.55	y	38:17	-	1.01	y
30	Unk	PCB-118	1.00	1.07e+06	1.38	y	38:29	-	1.06	y
31	IS	13C-PCB-118	100.00	1.01e+08	1.56	y	38:27	-	1.11	y
32	Unk	PCB-114	1.00	1.10e+06	1.37	y	39:05	-	1.16	y
33	IS	13C-PCB-114	100.00	9.50e+07	1.57	y	39:03	-	1.04	y
34	Unk	PCB-105	1.00	1.09e+06	1.32	y	39:54	-	1.15	y
35	IS	13C-PCB-105	100.00	9.42e+07	1.58	y	39:53	-	1.03	y
36	Unk	PCB-126	1.00	1.02e+06	1.45	y	42:03	-	1.15	y
37	IS	13C-PCB-126	100.00	8.88e+07	1.55	y	42:01	-	0.975	y
38	Unk	PCB-167	1.00	1.02e+06	1.24	y	43:23	-	0.988	y
39	IS	13C-PCB-167	100.00	1.03e+08	1.25	y	43:22	-	1.13	y
40	Unk	PCB-156	1.00	9.83e+05	1.27	y	44:37	-	1.04	y
41	IS	13C-PCB-156	100.00	9.42e+07	1.23	y	44:36	-	1.03	y
42	Unk	PCB-157	1.00	9.62e+05	1.17	y	44:52	-	0.955	y
43	IS	13C-PCB-157	100.00	1.01e+08	1.25	y	44:51	-	1.11	y
44	Unk	PCB-169	1.00	8.19e+05	1.23	y	46:44	-	1.02	y
45	IS	13C-PCB-169	100.00	8.04e+07	1.21	y	46:44	-	0.883	y
46	Unk	PCB-188	1.00	1.37e+06	1.12	y	39:40	-	1.23	y
47	IS	13C-PCB-188	100.00	1.12e+08	1.06	y	39:40	-	1.23	y
48	Unk	PCB-189	1.00	8.86e+05	1.13	y	48:25	-	1.21	y
49	IS	13C-PCB-189	100.00	7.32e+07	1.03	y	48:23	-	0.805	y
50	Unk	PCB-202	1.00	9.50e+05	0.87	y	44:47	-	1.17	y
51	IS	13C-PCB-202	100.00	8.11e+07	0.94	y	44:46	-	0.891	y
52	C/Up	13C-PCB-178	100.00	6.96e+07	1.04	y	42:18	-	0.764	y
53	RS	13C-PCB-138	100.00	9.10e+07	1.22	y	41:30	9.10e+05	-	n

54	Unk	PCB-205	1.00	5.61e+05	0.94	y	50:03	-	1.08	y	
55	IS	13C-PCB-205	100.00	5.20e+07	0.92	y	50:03	-	1.45	y	
56	Unk	PCB-208	1.00	6.46e+05	1.32	y	49:07	-	0.956	y	
57	IS	13C-PCB-208	100.00	6.76e+07	0.79	y	49:06	-	1.89	y	
58	Unk	PCB-206	1.00	4.63e+05	1.25	y	51:15	-	0.997	y	
59	IS	13C-PCB-206	100.00	4.65e+07	0.78	y	51:13	-	1.30	y	
60	Unk	PCB-209	1.00	8.35e+05	1.23	y	52:24	-	1.04	y	
61	IS	13C-PCB-209	100.00	8.01e+07	1.19	y	52:24	-	2.24	y	
62	RS	13C-PCB-194	100.00	3.58e+07	0.96	y	49:47	3.58e+05	-	n	

Analyst: [illegible] Date: 2/9/16

Run #3 Filename 08FEB16Z S: 4 Acquired: 8-FEB-16 09:25:45 Cal: 1668FAL4-2-8-16
Client ID: ST020816Z2 Analyte: FAL ID: 1668 CS2 R130426B

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	5.00	1.23e+07	3.04	y	14:28	-	0.982	y
2	IS/RT	13C-PCB-1	100.00	2.51e+08	3.03	y	14:28	-	1.31	y
3	Unk	PCB-3	5.00	1.19e+07	3.05	y	16:54	-	0.992	y
4	IS/RT	13C-PCB-3	100.00	2.41e+08	3.03	y	16:53	-	1.25	y
5	Unk	PCB-4	5.00	6.65e+06	1.47	y	18:09	-	1.05	y
6	IS/RT	13C-PCB-4	100.00	1.26e+08	1.57	y	18:07	-	0.656	y
7	Unk	PCB-15	5.00	9.80e+06	1.56	y	23:41	-	1.01	y
8	IS/RT	13C-PCB-15	100.00	1.94e+08	1.56	y	23:40	-	1.01	y
9	Unk	PCB-19	5.00	7.11e+06	1.02	y	22:02	-	1.02	y
10	IS/RT	13C-PCB-19	100.00	1.40e+08	1.08	y	22:01	-	0.725	y
11	RS	13C-PCB-9	100.00	1.92e+08	1.57	y	19:48	1.92e+06	-	n
12	Unk	PCB-37	5.00	7.16e+06	1.02	y	30:20	-	1.10	y
13	IS	13C-PCB-37	100.00	1.30e+08	1.06	y	30:19	-	1.07	y
14	Unk	PCB-54	5.00	7.00e+06	0.77	y	25:34	-	0.960	y
15	IS/RT	13C-PCB-54	100.00	1.46e+08	0.80	y	25:33	-	1.20	y
16	Unk	PCB-104	5.00	7.12e+06	1.50	y	30:01	-	1.08	y
17	IS	13C-PCB-104	100.00	1.32e+08	1.62	y	29:60	-	1.08	y
18	C/Up	13C-PCB-28	100.00	1.31e+08	1.06	y	26:37	-	1.08	y
19	RS	13C-PCB-52	100.00	1.22e+08	0.78	y	28:54	1.22e+06	-	n
20	Unk	PCB-81	5.00	6.08e+06	0.78	y	36:06	-	1.11	y
21	IS	13C-PCB-81	100.00	1.10e+08	0.79	y	36:05	-	1.02	y
22	Unk	PCB-77	5.00	5.93e+06	0.80	y	36:40	-	1.12	y
23	IS/RT	13C-PCB-77	100.00	1.06e+08	0.79	y	36:39	-	0.987	y
24	Unk	PCB-155	5.00	7.04e+06	1.24	y	34:10	-	1.08	y
25	IS	13C-PCB-155	100.00	1.31e+08	1.25	y	34:08	-	1.21	y
26	C/Up	13C-PCB-111	100.00	1.29e+08	1.55	y	36:14	-	1.19	y
27	RS	13C-PCB-101	100.00	1.08e+08	1.58	y	34:35	1.08e+06	-	n
28	Unk	PCB-123	5.00	4.58e+06	1.53	y	38:17	-	1.00	y
29	IS	13C-PCB-123	100.00	9.16e+07	1.55	y	38:16	-	0.997	y
30	Unk	PCB-118	5.00	4.96e+06	1.47	y	38:27	-	0.965	y
31	IS	13C-PCB-118	100.00	1.03e+08	1.57	y	38:27	-	1.12	y
32	Unk	PCB-114	5.00	4.49e+06	1.44	y	39:05	-	1.00	y
33	IS	13C-PCB-114	100.00	8.94e+07	1.57	y	39:04	-	0.973	y
34	Unk	PCB-105	5.00	4.90e+06	1.47	y	39:55	-	1.04	y
35	IS	13C-PCB-105	100.00	9.40e+07	1.56	y	39:53	-	1.02	y
36	Unk	PCB-126	5.00	4.63e+06	1.47	y	42:01	-	1.01	y
37	IS	13C-PCB-126	100.00	9.13e+07	1.54	y	42:01	-	0.994	y
38	Unk	PCB-167	5.00	4.89e+06	1.25	y	43:24	-	0.936	y
39	IS	13C-PCB-167	100.00	1.05e+08	1.25	y	43:22	-	1.14	y
40	Unk	PCB-156	5.00	4.71e+06	1.22	y	44:38	-	0.981	y
41	IS	13C-PCB-156	100.00	9.61e+07	1.24	y	44:36	-	1.05	y
42	Unk	PCB-157	5.00	4.63e+06	1.20	y	44:52	-	0.914	y
43	IS	13C-PCB-157	100.00	1.01e+08	1.25	y	44:51	-	1.10	y
44	Unk	PCB-169	5.00	3.80e+06	1.23	y	46:44	-	0.947	y
45	IS	13C-PCB-169	100.00	8.02e+07	1.23	y	46:44	-	0.873	y
46	Unk	PCB-188	5.00	6.58e+06	1.04	y	39:40	-	1.10	y
47	IS	13C-PCB-188	100.00	1.20e+08	1.05	y	39:38	-	1.30	y
48	Unk	PCB-189	5.00	4.18e+06	1.10	y	48:25	-	1.17	y
49	IS	13C-PCB-189	100.00	7.15e+07	1.07	y	48:23	-	0.778	y
50	Unk	PCB-202	5.00	4.78e+06	0.85	y	44:48	-	1.11	y
51	IS	13C-PCB-202	100.00	8.59e+07	0.94	y	44:46	-	0.935	y
52	C/Up	13C-PCB-178	100.00	7.01e+07	1.03	y	42:18	-	0.762	y
53	RS	13C-PCB-138	100.00	9.19e+07	1.24	y	41:30	9.19e+05	-	n

54	Unk	PCB-205	5.00	2.67e+06	0.91	y	50:03	-	1.01	y	
55	IS	13C-PCB-205	100.00	5.28e+07	0.92	y	50:03	-	1.53	y	
56	Unk	PCB-208	5.00	3.01e+06	1.36	y	49:08	-	0.918	y	
57	IS	13C-PCB-208	100.00	6.56e+07	0.79	y	49:06	-	1.90	y	
58	Unk	PCB-206	5.00	2.23e+06	1.34	y	51:13	-	0.952	y	
59	IS	13C-PCB-206	100.00	4.68e+07	0.76	y	51:13	-	1.35	y	
60	Unk	PCB-209	5.00	3.88e+06	1.16	y	52:24	-	0.987	y	
61	IS	13C-PCB-209	100.00	7.85e+07	1.20	y	52:23	-	2.27	y	
62	RS	13C-PCB-194	100.00	3.45e+07	0.92	y	49:47	3.45e+05	-	n	

Analyst: _____ Date: 2/9/16

Run #4 Filename 08FEB16Z S: 1 Acquired: 8-FEB-16 06:25:37 Cal: 1668FAL4-2-8-16
Client ID: ST020816Z3 Analyte: FAL ID: 1668 CS3 R150603A

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	50.00	1.03e+08	3.08	y	14:27	-	0.918	y
2	IS/RT	13C-PCB-1	100.00	2.24e+08	3.05	y	14:26	-	1.37	y
3	Unk	PCB-3	50.00	9.81e+07	3.17	y	16:54	-	0.966	y
4	IS/RT	13C-PCB-3	100.00	2.03e+08	3.06	y	16:53	-	1.24	y
5	Unk	PCB-4	50.00	5.52e+07	1.54	y	18:08	-	1.01	y
6	IS/RT	13C-PCB-4	100.00	1.09e+08	1.57	y	18:06	-	0.667	y
7	Unk	PCB-15	50.00	8.00e+07	1.57	y	23:41	-	1.04	y
8	IS/RT	13C-PCB-15	100.00	1.54e+08	1.58	y	23:39	-	0.940	y
9	Unk	PCB-19	50.00	6.00e+07	1.01	y	22:01	-	0.982	y
10	IS/RT	13C-PCB-19	100.00	1.22e+08	1.05	y	22:00	-	0.747	y
11	RS	13C-PCB-9	100.00	1.64e+08	1.57	y	19:48	1.64e+06	-	n
12	Unk	PCB-37	50.00	5.94e+07	1.03	y	30:20	-	1.09	y
13	IS	13C-PCB-37	100.00	1.09e+08	1.07	y	30:19	-	1.03	y
14	Unk	PCB-54	50.00	6.14e+07	0.78	y	25:34	-	0.937	y
15	IS/RT	13C-PCB-54	100.00	1.31e+08	0.80	y	25:33	-	1.24	y
16	Unk	PCB-104	50.00	5.74e+07	1.52	y	30:01	-	1.03	y
17	IS	13C-PCB-104	100.00	1.12e+08	1.60	y	29:60	-	1.06	y
18	C/Up	13C-PCB-28	100.00	1.26e+08	1.04	y	26:37	-	1.19	y
19	RS	13C-PCB-52	100.00	1.06e+08	0.78	y	28:54	1.06e+06	-	n
20	Unk	PCB-81	50.00	4.62e+07	0.77	y	36:06	-	1.14	y
21	IS	13C-PCB-81	100.00	8.14e+07	0.80	y	36:05	-	0.924	y
22	Unk	PCB-77	50.00	4.41e+07	0.76	y	36:40	-	1.07	y
23	IS/RT	13C-PCB-77	100.00	8.24e+07	0.80	y	36:39	-	0.936	y
24	Unk	PCB-155	50.00	5.92e+07	1.25	y	34:10	-	1.03	y
25	IS	13C-PCB-155	100.00	1.15e+08	1.25	y	34:08	-	1.31	y
26	C/Up	13C-PCB-111	100.00	1.07e+08	1.58	y	36:14	-	1.22	y
27	RS	13C-PCB-101	100.00	8.81e+07	1.60	y	34:35	8.81e+05	-	n
28	Unk	PCB-123	50.00	3.50e+07	1.51	y	38:17	-	0.990	y
29	IS	13C-PCB-123	100.00	7.07e+07	1.52	y	38:16	-	1.05	y
30	Unk	PCB-118	50.00	4.19e+07	1.53	y	38:29	-	1.06	y
31	IS	13C-PCB-118	100.00	7.93e+07	1.57	y	38:27	-	1.18	y
32	Unk	PCB-114	50.00	3.81e+07	1.52	y	39:05	-	1.02	y
33	IS	13C-PCB-114	100.00	7.48e+07	1.55	y	39:03	-	1.11	y
34	Unk	PCB-105	50.00	3.73e+07	1.55	y	39:54	-	1.02	y
35	IS	13C-PCB-105	100.00	7.33e+07	1.55	y	39:53	-	1.09	y
36	Unk	PCB-126	50.00	3.09e+07	1.52	y	42:03	-	1.02	y
37	IS	13C-PCB-126	100.00	6.07e+07	1.62	y	42:01	-	0.900	y
38	Unk	PCB-167	50.00	3.69e+07	1.24	y	43:24	-	0.930	y
39	IS	13C-PCB-167	100.00	7.92e+07	1.25	y	43:22	-	1.18	y
40	Unk	PCB-156	50.00	3.39e+07	1.22	y	44:38	-	0.953	y
41	IS	13C-PCB-156	100.00	7.13e+07	1.26	y	44:36	-	1.06	y
42	Unk	PCB-157	50.00	3.55e+07	1.24	y	44:52	-	0.921	y
43	IS	13C-PCB-157	100.00	7.70e+07	1.23	y	44:51	-	1.14	y
44	Unk	PCB-169	50.00	2.88e+07	1.25	y	46:44	-	0.913	y
45	IS	13C-PCB-169	100.00	6.30e+07	1.26	y	46:44	-	0.935	y
46	Unk	PCB-188	50.00	5.36e+07	1.05	y	39:40	-	1.06	y
47	IS	13C-PCB-188	100.00	1.01e+08	1.03	y	39:40	-	1.50	y
48	Unk	PCB-189	50.00	3.44e+07	1.06	y	48:25	-	1.09	y
49	IS	13C-PCB-189	100.00	6.31e+07	1.05	y	48:23	-	0.936	y
50	Unk	PCB-202	50.00	3.97e+07	0.86	y	44:48	-	1.03	y
51	IS	13C-PCB-202	100.00	7.69e+07	0.93	y	44:46	-	1.14	y
52	C/Up	13C-PCB-178	100.00	5.91e+07	1.04	y	42:18	-	0.878	y
53	RS	13C-PCB-138	100.00	6.74e+07	1.24	y	41:30	6.74e+05	-	n

54	Unk	PCB-205	50.00	2.36e+07	0.91 y	50:03		-	1.08	y
55	IS	13C-PCB-205	100.00	4.38e+07	0.91 y	50:03		-	1.38	y
56	Unk	PCB-208	50.00	2.51e+07	1.36 y	49:08		-	0.848	y
57	IS	13C-PCB-208	100.00	5.93e+07	0.78 y	49:06		-	1.87	y
58	Unk	PCB-206	50.00	1.86e+07	1.33 y	51:13		-	0.903	y
59	IS	13C-PCB-206	100.00	4.13e+07	0.76 y	51:13		-	1.30	y
60	Unk	PCB-209	50.00	3.24e+07	1.17 y	52:24		-	1.09	y
61	IS	13C-PCB-209	100.00	5.94e+07	1.18 y	52:23		-	1.88	y
62	RS	13C-PCB-194	100.00	3.17e+07	0.92 y	49:47	3.17e+05	-		n

Analyst: _____ Date: 2/9/16

Run #5 Filename 08FEB16Z S: 5 Acquired: 8-FEB-16 10:25:42 Cal: 1668FAL4-2-8-16
Client ID: ST020816Z4 Analyte: FAL ID: 1668 CS4 R151116B

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	400.00	6.62e+08	3.13 y	14:27	-	0.980	y
2	IS/RT	13C-PCB-1	100.00	1.69e+08	3.03 y	14:26	-	1.23	y
3	Unk	PCB-3	400.00	6.53e+08	3.14 y	16:53	-	0.952	y
4	IS/RT	13C-PCB-3	100.00	1.71e+08	3.10 y	16:52	-	1.25	y
5	Unk	PCB-4	400.00	3.65e+08	1.55 y	18:08	-	1.03	y
6	IS/RT	13C-PCB-4	100.00	8.83e+07	1.57 y	18:07	-	0.646	y
7	Unk	PCB-15	400.00	5.59e+08	1.55 y	23:41	-	1.04	y
8	IS/RT	13C-PCB-15	100.00	1.34e+08	1.58 y	23:40	-	0.981	y
9	Unk	PCB-19	400.00	3.83e+08	1.00 y	22:02	-	0.952	y
10	IS/RT	13C-PCB-19	100.00	1.01e+08	1.06 y	21:60	-	0.736	y
11	RS	13C-PCB-9	100.00	1.37e+08	1.61 y	19:48	1.37e+06	-	n
12	Unk	PCB-37	400.00	4.10e+08	1.02 y	30:19	-	1.07	y
13	IS	13C-PCB-37	100.00	9.61e+07	1.10 y	30:18	-	1.07	y
14	Unk	PCB-54	400.00	4.30e+08	0.79 y	25:34	-	0.952	y
15	IS/RT	13C-PCB-54	100.00	1.13e+08	0.79 y	25:32	-	1.26	y
16	Unk	PCB-104	400.00	4.08e+08	1.55 y	30:00	-	1.05	y
17	IS	13C-PCB-104	100.00	9.71e+07	1.60 y	29:59	-	1.09	y
18	C/Up	13C-PCB-28	100.00	1.01e+08	1.08 y	26:37	-	1.13	y
19	RS	13C-PCB-52	100.00	8.95e+07	0.78 y	28:53	8.95e+05	-	n
20	Unk	PCB-81	400.00	3.43e+08	0.77 y	36:06	-	1.13	y
21	IS	13C-PCB-81	100.00	7.60e+07	0.80 y	36:04	-	1.01	y
22	Unk	PCB-77	400.00	3.29e+08	0.78 y	36:40	-	1.08	y
23	IS/RT	13C-PCB-77	100.00	7.63e+07	0.80 y	36:38	-	1.01	y
24	Unk	PCB-155	400.00	3.95e+08	1.24 y	34:09	-	1.03	y
25	IS	13C-PCB-155	100.00	9.63e+07	1.26 y	34:08	-	1.27	y
26	C/Up	13C-PCB-111	100.00	9.12e+07	1.55 y	36:13	-	1.21	y
27	RS	13C-PCB-101	100.00	7.56e+07	1.58 y	34:35	7.56e+05	-	n
28	Unk	PCB-123	400.00	2.57e+08	1.50 y	38:17	-	0.986	y
29	IS	13C-PCB-123	100.00	6.51e+07	1.56 y	38:17	-	1.12	y
30	Unk	PCB-118	400.00	2.97e+08	1.52 y	38:29	-	1.05	y
31	IS	13C-PCB-118	100.00	7.08e+07	1.57 y	38:27	-	1.22	y
32	Unk	PCB-114	400.00	2.83e+08	1.54 y	39:05	-	1.01	y
33	IS	13C-PCB-114	100.00	6.97e+07	1.61 y	39:03	-	1.20	y
34	Unk	PCB-105	400.00	2.76e+08	1.54 y	39:54	-	1.02	y
35	IS	13C-PCB-105	100.00	6.74e+07	1.62 y	39:53	-	1.16	y
36	Unk	PCB-126	400.00	2.50e+08	1.53 y	42:01	-	1.02	y
37	IS	13C-PCB-126	100.00	6.13e+07	1.58 y	42:01	-	1.05	y
38	Unk	PCB-167	400.00	2.76e+08	1.24 y	43:23	-	0.940	y
39	IS	13C-PCB-167	100.00	7.33e+07	1.25 y	43:22	-	1.26	y
40	Unk	PCB-156	400.00	2.62e+08	1.25 y	44:37	-	0.955	y
41	IS	13C-PCB-156	100.00	6.85e+07	1.26 y	44:36	-	1.18	y
42	Unk	PCB-157	400.00	2.69e+08	1.29 y	44:52	-	0.931	y
43	IS	13C-PCB-157	100.00	7.23e+07	1.26 y	44:50	-	1.24	y
44	Unk	PCB-169	400.00	2.21e+08	1.24 y	46:44	-	0.932	y
45	IS	13C-PCB-169	100.00	5.92e+07	1.25 y	46:44	-	1.02	y
46	Unk	PCB-188	400.00	3.62e+08	1.05 y	39:39	-	1.12	y
47	IS	13C-PCB-188	100.00	8.08e+07	1.05 y	39:39	-	1.39	y
48	Unk	PCB-189	400.00	2.32e+08	1.04 y	48:24	-	1.14	y
49	IS	13C-PCB-189	100.00	5.11e+07	1.02 y	48:23	-	0.879	y
50	Unk	PCB-202	400.00	2.74e+08	0.86 y	44:47	-	1.06	y
51	IS	13C-PCB-202	100.00	6.45e+07	0.93 y	44:46	-	1.11	y
52	C/Up	13C-PCB-178	100.00	5.04e+07	1.05 y	42:17	-	0.868	y
53	RS	13C-PCB-138	100.00	5.81e+07	1.23 y	41:30	5.81e+05	-	n

54	Unk	PCB-205	400.00	1.60e+08	0.92 y	50:02		-	1.11	y
55	IS	13C-PCB-205	100.00	3.60e+07	0.91 y	50:02		-	1.45	y
56	Unk	PCB-208	400.00	1.76e+08	1.34 y	49:07		-	0.863	y
57	IS	13C-PCB-208	100.00	5.08e+07	0.79 y	49:06		-	2.05	y
58	Unk	PCB-206	400.00	1.33e+08	1.35 y	51:14		-	0.935	y
59	IS	13C-PCB-206	100.00	3.56e+07	0.77 y	51:13		-	1.44	y
60	Unk	PCB-209	400.00	2.24e+08	1.17 y	52:24		-	1.11	y
61	IS	13C-PCB-209	100.00	5.04e+07	1.19 y	52:24		-	2.03	y
62	RS	13C-PCB-194	100.00	2.48e+07	0.92 y	49:47	2.48e+05	-		n

Analyst: [signature] Date: 2/9/16

Run #6 Filename 08FEB16Z S: 6 Acquired: 8-FEB-16 11:25:37 Cal: 1668FAL4-2-8-16
Client ID: ST020816Z5 Analyte: 1668FAL4-2-8-16 FAL ID: 1668 CS5 R150603A

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	2000.00	4.32e+09	3.04	y	14:26	-	0.911	y
2	IS/RT	13C-PCB-1	100.00	2.37e+08	3.01	y	14:25	-	1.46	y
3	Unk	PCB-3	2000.00	4.06e+09	3.07	y	16:53	-	0.995	y
4	IS/RT	13C-PCB-3	100.00	2.04e+08	3.08	y	16:52	-	1.25	y
5	Unk	PCB-4	2000.00	2.28e+09	1.52	y	18:09	-	1.01	y
6	IS/RT	13C-PCB-4	100.00	1.13e+08	1.54	y	18:07	-	0.692	y
7	Unk	PCB-15	2000.00	3.58e+09	1.57	y	23:41	-	1.05	y
8	IS/RT	13C-PCB-15	100.00	1.71e+08	1.59	y	23:40	-	1.05	y
9	Unk	PCB-19	2000.00	2.39e+09	1.01	y	22:03	-	0.973	y
10	IS/RT	13C-PCB-19	100.00	1.23e+08	1.06	y	22:01	-	0.755	y
11	RS	13C-PCB-9	100.00	1.63e+08	1.55	y	19:48	1.63e+06	-	n
12	Unk	PCB-37	2000.00	2.69e+09	1.00	y	30:19	-	1.06	y
13	IS	13C-PCB-37	100.00	1.27e+08	1.08	y	30:19	-	1.19	y
14	Unk	PCB-54	2000.00	2.46e+09	0.78	y	25:35	-	0.920	y
15	IS/RT	13C-PCB-54	100.00	1.34e+08	0.80	y	25:34	-	1.25	y
16	Unk	PCB-104	2000.00	2.60e+09	1.54	y	30:02	-	1.05	y
17	IS	13C-PCB-104	100.00	1.24e+08	1.59	y	30:00	-	1.16	y
18	C/Up	13C-PCB-28	100.00	1.22e+08	1.04	y	26:38	-	1.14	y
19	RS	13C-PCB-52	100.00	1.07e+08	0.79	y	28:55	1.07e+06	-	n
20	Unk	PCB-81	2000.00	2.23e+09	0.76	y	36:07	-	1.10	y
21	IS	13C-PCB-81	100.00	1.01e+08	0.81	y	36:06	-	1.14	y
22	Unk	PCB-77	2000.00	2.19e+09	0.77	y	36:40	-	1.07	y
23	IS/RT	13C-PCB-77	100.00	1.03e+08	0.82	y	36:38	-	1.15	y
24	Unk	PCB-155	2000.00	2.51e+09	1.24	y	34:11	-	1.01	y
25	IS	13C-PCB-155	100.00	1.24e+08	1.26	y	34:09	-	1.40	y
26	C/Up	13C-PCB-111	100.00	1.13e+08	1.55	y	36:14	-	1.26	y
27	RS	13C-PCB-101	100.00	8.92e+07	1.58	y	34:36	8.92e+05	-	n
28	Unk	PCB-123	2000.00	1.72e+09	1.49	y	38:19	-	1.02	y
29	IS	13C-PCB-123	100.00	8.42e+07	1.56	y	38:17	-	1.22	y
30	Unk	PCB-118	2000.00	1.96e+09	1.50	y	38:29	-	1.04	y
31	IS	13C-PCB-118	100.00	9.44e+07	1.56	y	38:27	-	1.37	y
32	Unk	PCB-114	2000.00	1.69e+09	1.48	y	39:06	-	0.986	y
33	IS	13C-PCB-114	100.00	8.58e+07	1.57	y	39:05	-	1.24	y
34	Unk	PCB-105	2000.00	1.89e+09	1.55	y	39:54	-	1.06	y
35	IS	13C-PCB-105	100.00	8.94e+07	1.57	y	39:54	-	1.30	y
36	Unk	PCB-126	2000.00	1.64e+09	1.53	y	42:03	-	1.02	y
37	IS	13C-PCB-126	100.00	8.07e+07	1.61	y	42:01	-	1.17	y
38	Unk	PCB-167	2000.00	1.84e+09	1.24	y	43:23	-	0.933	y
39	IS	13C-PCB-167	100.00	9.84e+07	1.23	y	43:23	-	1.43	y
40	Unk	PCB-156	2000.00	1.77e+09	1.24	y	44:37	-	0.949	y
41	IS	13C-PCB-156	100.00	9.34e+07	1.25	y	44:36	-	1.35	y
42	Unk	PCB-157	2000.00	1.77e+09	1.24	y	44:52	-	0.882	y
43	IS	13C-PCB-157	100.00	1.00e+08	1.24	y	44:52	-	1.45	y
44	Unk	PCB-169	2000.00	1.55e+09	1.24	y	46:46	-	0.923	y
45	IS	13C-PCB-169	100.00	8.38e+07	1.23	y	46:44	-	1.22	y
46	Unk	PCB-188	2000.00	2.37e+09	1.05	y	39:41	-	1.08	y
47	IS	13C-PCB-188	100.00	1.10e+08	1.05	y	39:39	-	1.60	y
48	Unk	PCB-189	2000.00	1.68e+09	1.05	y	48:24	-	1.13	y
49	IS	13C-PCB-189	100.00	7.47e+07	1.03	y	48:24	-	1.08	y
50	Unk	PCB-202	2000.00	1.89e+09	0.86	y	44:47	-	1.09	y
51	IS	13C-PCB-202	100.00	8.65e+07	0.94	y	44:47	-	1.26	y
52	C/Up	13C-PCB-178	100.00	6.07e+07	1.04	y	42:17	-	0.880	y
53	RS	13C-PCB-138	100.00	6.89e+07	1.25	y	41:31	6.89e+05	-	n

54	Unk	PCB-205	2000.00	1.07e+09	0.91	y	50:04	-	1.13	y	
55	IS	13C-PCB-205	100.00	4.76e+07	0.92	y	50:02	-	1.62	y	
56	Unk	PCB-208	2000.00	1.22e+09	1.34	y	49:07	-	0.857	y	
57	IS	13C-PCB-208	100.00	7.11e+07	0.79	y	49:07	-	2.42	y	
58	Unk	PCB-206	2000.00	9.31e+08	1.36	y	51:14	-	0.925	y	
59	IS	13C-PCB-206	100.00	5.03e+07	0.78	y	51:13	-	1.71	y	
60	Unk	PCB-209	2000.00	1.58e+09	1.16	y	52:25	-	1.12	y	
61	IS	13C-PCB-209	100.00	7.05e+07	1.20	y	52:24	-	2.40	y	
62	RS	13C-PCB-194	100.00	2.94e+07	0.93	y	49:47	2.94e+05	-	n	

Analyst: _____ Date: 2/9/14

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 2/8/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 08FEB16Z Sam:1 Analysis Date: 8-FEB-16 06:25:37

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.08	2.66-3.60	y	47.1	37.5 - 62.5
PCB-3	M/M+2	3.17	2.66-3.60	y	48.6	37.5 - 62.5
PCB-4	M/M+2	1.54	1.33-1.79	y	46.7	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	49.1	37.5 - 62.5
PCB-19	M/M+2	1.01	0.88-1.20	y	49.1	37.5 - 62.5
PCB-37	M/M+2	1.03	0.88-1.20	y	48.5	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	48.4	37.5 - 62.5
PCB-77	M/M+2	0.76	0.65-0.89	y	47.4	37.5 - 62.5
PCB-81	M/M+2	0.77	0.65-0.89	y	49.3	37.5 - 62.5
PCB-104	M+2/M+4	1.52	1.32-1.78	y	46.6	37.5 - 62.5
PCB-105	M+2/M+4	1.55	1.32-1.78	y	47.6	37.5 - 62.5
PCB-114	M+2/M+4	1.52	1.32-1.78	y	48.1	37.5 - 62.5
PCB-118	M+2/M+4	1.53	1.32-1.78	y	49.5	37.5 - 62.5
PCB-123	M+2/M+4	1.51	1.32-1.78	y	46.4	37.5 - 62.5
PCB-126	M+2/M+4	1.52	1.32-1.78	y	47.4	37.5 - 62.5
PCB-155	M+2/M+4	1.25	1.05-1.43	y	47.1	37.5 - 62.5
PCB-156	M+2/M+4	1.22	1.05-1.43	y	47.0	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	48.8	37.5 - 62.5
PCB-167	M+2/M+4	1.24	1.05-1.43	y	48.1	37.5 - 62.5
PCB-169	M+2/M+4	1.25	1.05-1.43	y	47.0	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	47.0	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	46.5	37.5 - 62.5
PCB-202	M+2/M+4	0.86	0.76-1.02	y	46.3	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	47.6	37.5 - 62.5
PCB-206	M+4/M+6	1.33	1.13-1.53	y	47.0	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	46.6	37.5 - 62.5
PCB-209	M+4/M+6	1.17	0.99-1.33	y	48.4	37.5 - 62.5

Analyst: [signature] Date: 2/9/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 2/8/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 08FEB16Z Sam:1 Analysis Date: 8-FEB-16 06:25:37

	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	3.05	2.66-3.60	y	102	50.0 - 145
13C-PCB-3	M/M+2	3.06	2.66-3.60	y	98.8	50.0 - 145
13C-PCB-4	M/M+2	1.57	1.33-1.79	y	100	50.0 - 145
13C-PCB-15	M/M+2	1.58	1.33-1.79	y	94.4	50.0 - 145
13C-PCB-19	M/M+2	1.05	0.88-1.20	y	98.1	50.0 - 145
13C-PCB-37	M/M+2	1.07	0.88-1.20	y	95.6	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	100	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	92.0	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	91.1	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	96.8	50.0 - 145
13C-PCB-105	M+2/M+4	1.55	1.32-1.78	y	97.6	50.0 - 145
13C-PCB-114	M+2/M+4	1.55	1.32-1.78	y	100	50.0 - 145
13C-PCB-118	M+2/M+4	1.57	1.32-1.78	y	99.0	50.0 - 145
13C-PCB-123	M+2/M+4	1.52	1.32-1.78	y	97.8	50.0 - 145
13C-PCB-126	M+2/M+4	1.62	1.32-1.78	y	88.2	50.0 - 145
13C-PCB-155	M+2/M+4	1.25	1.05-1.43	y	102	50.0 - 145
13C-PCB-156	M+2/M+4	1.26	1.05-1.43	y	94.4	50.0 - 145
13C-PCB-157	M+2/M+4	1.23	1.05-1.43	y	95.4	50.0 - 145
13C-PCB-167	M+2/M+4	1.25	1.05-1.43	y	96.9	50.0 - 145
13C-PCB-169	M+2/M+4	1.26	1.05-1.43	y	95.5	50.0 - 145
13C-PCB-188	M+2/M+4	1.03	0.89-1.21	y	107	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	0.93	0.76-1.02	y	108	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	94.3	50.0 - 145
13C-PCB-206	M+2/M+4	0.76	0.65-0.89	y	93.3	50.0 - 145
13C-PCB-208	M+2/M+4	0.78	0.65-0.89	y	93.7	50.0 - 145
13C-PCB-209	M+4/M+6	1.18	0.99-1.33	y	89.2	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	105	65.0 - 135
13C-PCB-111	M+2/M+4	1.58	1.32-1.78	y	100.0	75.0 - 125
13C-PCB-178	M+2/M+4	1.04	0.89-1.21	y	106	75.0 - 125

Analyst: [signature] Date: 2/9/16

FAL ID: ST020816Z3 Filename: 08FEB16Z Sam:1 Acquired: 8-FEB-16 06:25:37 ICal: 1668FAL4-2-8-16
Client ID: 1668 CS3 R150603A ConCal: NA EndCal: NA
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	1.03e+08	3.08 y	14:27	0.97	47.1		2.50	-	-	*	-
13C-PCB-1	2.24e+08	3.05 y	14:26	1.34	102		2.50				102
PCB-3	9.81e+07	3.17 y	16:54	0.99	48.6		2.50	-	-	*	-
13C-PCB-3	2.03e+08	3.06 y	16:53	1.26	98.8		2.50				98.8
PCB-4	5.52e+07	1.54 y	18:08	1.08	46.7		2.50	-	-	*	-
13C-PCB-4	1.09e+08	1.57 y	18:06	0.66	100		2.50				100
PCB-15	8.00e+07	1.57 y	23:41	1.06	49.1		2.50	-	-	*	-
13C-PCB-15	1.54e+08	1.58 y	23:39	1.00	94.4		2.50				94.4
PCB-19	6.00e+07	1.01 y	22:01	1.00	49.1		2.50	-	-	*	-
13C-PCB-19	1.22e+08	1.05 y	22:00	0.76	98.1		2.50				98.1
13C-PCB-9	1.64e+08	1.57 y	19:48	-	97.2		2.50				
PCB-37	5.94e+07	1.03 y	30:20	1.12	48.5		2.50	-	-	*	-
13C-PCB-37	1.09e+08	1.07 y	30:19	1.08	95.6		2.50				95.6
PCB-54	6.14e+07	0.78 y	25:34	0.97	48.4		2.50	-	-	*	-
13C-PCB-54	1.31e+08	0.80 y	25:33	1.23	100		2.50				100
PCB-104	5.74e+07	1.52 y	30:01	1.10	46.6		2.50	-	-	*	-
13C-PCB-104	1.12e+08	1.60 y	29:60	1.09	96.8		2.50				96.8
13C-PCB-28	1.26e+08	1.04 y	26:37	1.14	105		2.50				105
13C-PCB-52	1.06e+08	0.78 y	28:54	-	97.8		2.50				
PCB-81	4.62e+07	0.77 y	36:06	1.15	49.3		2.50	-	-	*	-
13C-PCB-81	8.14e+07	0.80 y	36:05	1.01	91.1		2.50				91.1
PCB-77	4.41e+07	0.76 y	36:40	1.13	47.4		2.50	-	-	*	-
13C-PCB-77	8.24e+07	0.80 y	36:39	1.02	92.0		2.50				92.0
PCB-155	5.92e+07	1.25 y	34:10	1.09	47.1		2.50	-	-	*	-
13C-PCB-155	1.15e+08	1.25 y	34:08	1.29	102		2.50				102
13C-PCB-111	1.07e+08	1.58 y	36:14	1.22	100.0		2.50				100.0
13C-PCB-101	8.81e+07	1.60 y	34:35	-	95.9		2.50				
PCB-123	3.50e+07	1.51 y	38:17	1.07	46.4		2.50	-	-	*	-
13C-PCB-123	7.07e+07	1.52 y	38:16	1.07	97.8		2.50				97.8
PCB-118	4.19e+07	1.53 y	38:29	1.07	49.5		2.50	-	-	*	-
13C-PCB-118	7.93e+07	1.57 y	38:27	1.19	99.0		2.50				99.0
PCB-114	3.81e+07	1.52 y	39:05	1.06	48.1		2.50	-	-	*	-
13C-PCB-114	7.48e+07	1.55 y	39:03	1.11	100		2.50				100
PCB-105	3.73e+07	1.55 y	39:54	1.07	47.6		2.50	-	-	*	-
13C-PCB-105	7.33e+07	1.55 y	39:53	1.11	97.6		2.50				97.6
PCB-126	3.09e+07	1.52 y	42:03	1.08	47.4		2.50	-	-	*	-
13C-PCB-126	6.07e+07	1.62 y	42:01	1.02	88.2		2.50				88.2
PCB-167	3.69e+07	1.24 y	43:24	0.97	48.1		2.50	-	-	*	-
13C-PCB-167	7.92e+07	1.25 y	43:22	1.21	96.9		2.50				96.9
PCB-156	3.39e+07	1.22 y	44:38	1.01	47.0		2.50	-	-	*	-
13C-PCB-156	7.13e+07	1.26 y	44:36	1.12	94.4		2.50				94.4
PCB-157	3.55e+07	1.24 y	44:52	0.94	48.8		2.50	-	-	*	-
13C-PCB-157	7.70e+07	1.23 y	44:51	1.20	95.4		2.50				95.4
PCB-169	2.88e+07	1.25 y	46:44	0.97	47.0		2.50	-	-	*	-
13C-PCB-169	6.30e+07	1.26 y	46:44	0.98	95.5		2.50				95.5
PCB-188	5.36e+07	1.05 y	39:40	1.13	47.0		2.50	-	-	*	-
13C-PCB-188	1.01e+08	1.03 y	39:40	1.41	107		2.50				107
PCB-189	3.44e+07	1.06 y	48:25	1.17	46.5		2.50	-	-	*	-
13C-PCB-189	6.31e+07	1.05 y	48:23	0.89	105		2.50				105
PCB-202	3.97e+07	0.86 y	44:48	1.12	46.3		2.50	-	-	*	-
13C-PCB-202	7.69e+07	0.93 y	44:46	1.06	108		2.50				108
13C-PCB-178	5.91e+07	1.04 y	42:18	0.83	106		2.50				106
13C-PCB-138	6.74e+07	1.24 y	41:30	-	90.2		2.50				

Client ID: 1668 CS3 R150603A ConCal: NA EndCal: NA
Results: GC Column: DB1 Amount: 1.000

PCB-205	2.36e+07	0.91	y	50:03	1.13	47.6	2.50	-	-	*	-
13C-PCB-205	4.38e+07	0.91	y	50:03	1.47	94.3	2.50				94.3
PCB-208	2.51e+07	1.36	y	49:08	0.91	46.6	2.50	-	-	*	-
13C-PCB-208	5.93e+07	0.78	y	49:06	2.00	93.7	2.50				93.7
PCB-206	1.86e+07	1.33	y	51:13	0.96	47.0	2.50	-	-	*	-
13C-PCB-206	4.13e+07	0.76	y	51:13	1.40	93.3	2.50				93.3
PCB-209	3.24e+07	1.17	y	52:24	1.13	48.4	2.50	-	-	*	-
13C-PCB-209	5.94e+07	1.18	y	52:23	2.10	89.2	2.50				89.2
13C-PCB-194	3.17e+07	0.92	y	49:47	-	102	2.50				

Analyst: [illegible] Date: 2/9/16

Frontier Analytical Laboratory - Acquisition Log

Run Name:08FEB16Z Instrument: FAL4 GC: DB1 Experiment:1668PCB

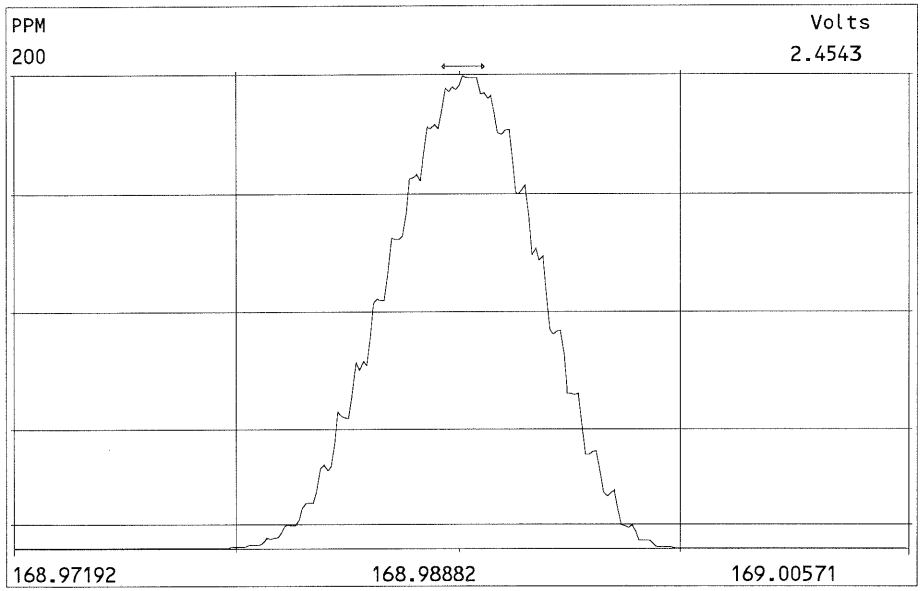
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
08FEB16Z	1	ST020816Z3	1668 CS3 R150603A	8-FEB-16 06:25:37	NA	NA	BS
08FEB16Z	2	ST020816Z0	1668 CS0 R151116A	8-FEB-16 07:25:55	NA	NA	BS
08FEB16Z	3	ST020816Z1	1668 CS1 R121023B	8-FEB-16 08:25:50	NA	NA	BS
08FEB16Z	4	ST020816Z2	1668 CS2 R130426B	8-FEB-16 09:25:45	NA	NA	BS
08FEB16Z	5	ST020816Z4	1668 CS4 R151116B	8-FEB-16 10:25:42	NA	NA	BS
08FEB16Z	6	ST020816Z5	1668 CS5 R130426C	8-FEB-16 11:25:37	NA	NA	BS
08FEB16Z	7	SB020816Z1	Solvent Blank	8-FEB-16 12:25:34	NA	NA	BS
08FEB16Z	8	SS020816Z1	209 Second Source	8-FEB-16 13:25:31	NA	NA	BS
08FEB16Z	9	ST020816Z6	1668 CS3 R150603A	8-FEB-16 14:25:28	ST020816Z6	ST020816Z7	BS
08FEB16Z	10	SS020816Z2	DAILY 209 151201A	8-FEB-16 15:25:25	ST020816Z6	ST020816Z7	BS
08FEB16Z	11	3578-001-0001-OPR	OPR	8-FEB-16 16:25:22	ST020816Z6	ST020816Z7	BS
08FEB16Z	12	3578-001-0001-MB	Method Blank	8-FEB-16 17:25:19	ST020816Z6	ST020816Z7	BS
08FEB16Z	13	9545-001-0001-SA	E-002	8-FEB-16 18:25:15	ST020816Z6	ST020816Z7	BS
08FEB16Z	14	9547-002-0001-SA	E-1 Grab	8-FEB-16 19:25:10	ST020816Z6	ST020816Z7	BS
08FEB16Z	15	9560-002-0001-SA	EFF-001	8-FEB-16 20:25:07	ST020816Z6	ST020816Z7	BS
08FEB16Z	16	9606-001-0001-SA	EFFLUENT (E001-D)	8-FEB-16 21:25:05	ST020816Z6	ST020816Z7	BS
08FEB16Z	17	9610-004-0001-SA	EFF-001 East/West Comp	8-FEB-16 22:25:00	ST020816Z6	ST020816Z7	BS
08FEB16Z	18	SB020816Z2	Solvent Blank	8-FEB-16 23:24:54	ST020816Z6	ST020816Z7	BS
08FEB16Z	19	ST020816Z7	1668 CS3 R150603A	9-FEB-16 00:24:48	ST020816Z6	ST020816Z7	BS

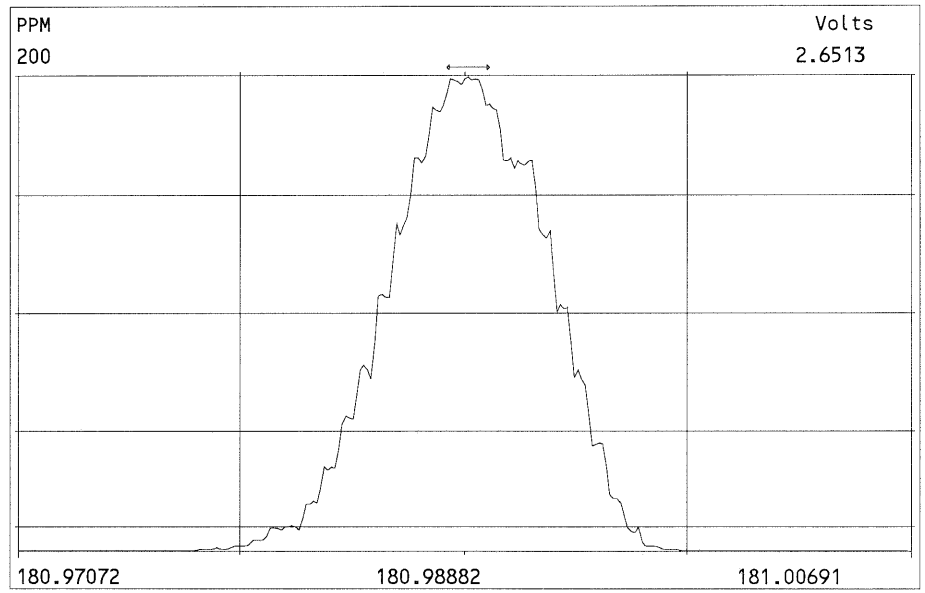
b 2/9/16

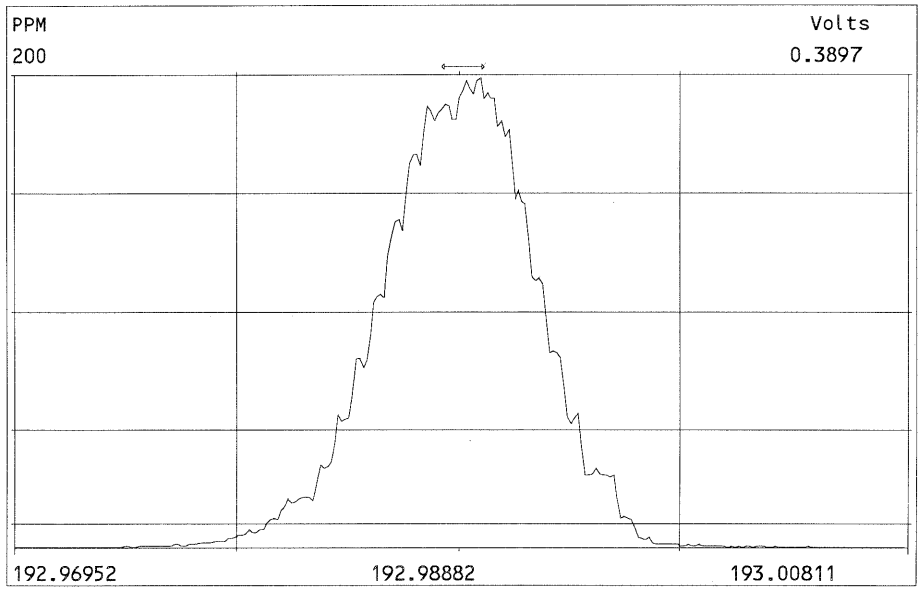
Data Backed Up:_____

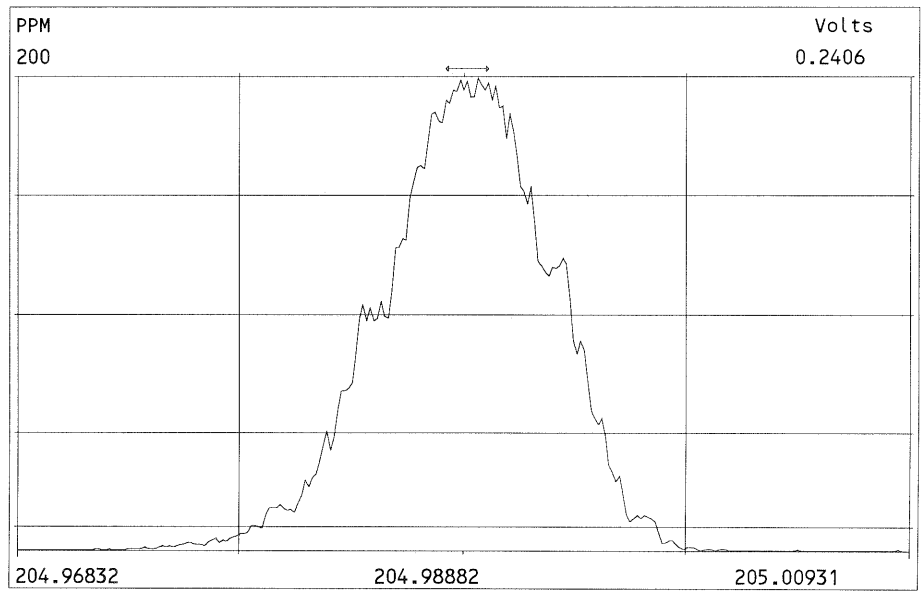
Date:_____

Peak Locate Examination: 8-FEB-2016:06:22 File:08FEB16Z
Experiment:1668PCB Function:1 Reference:PFK

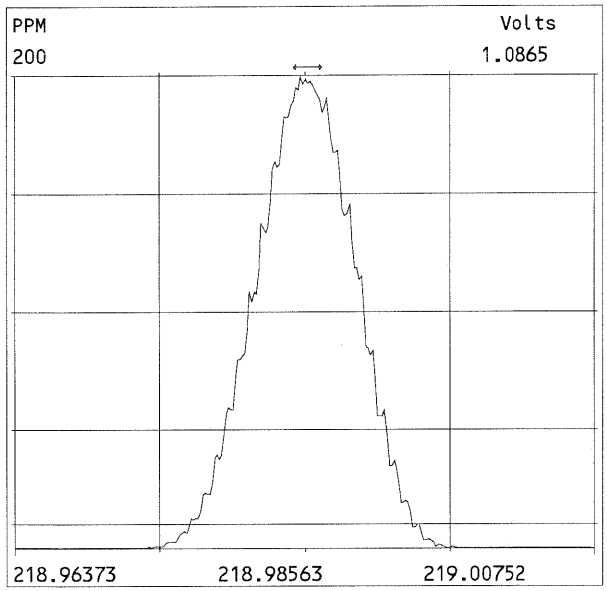


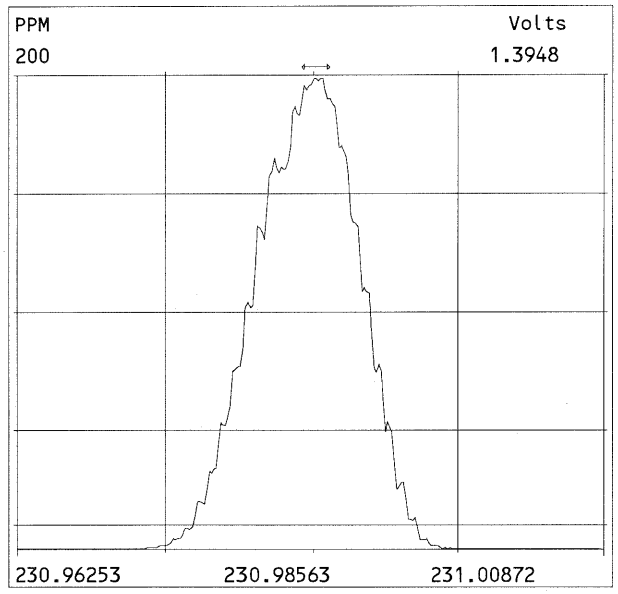


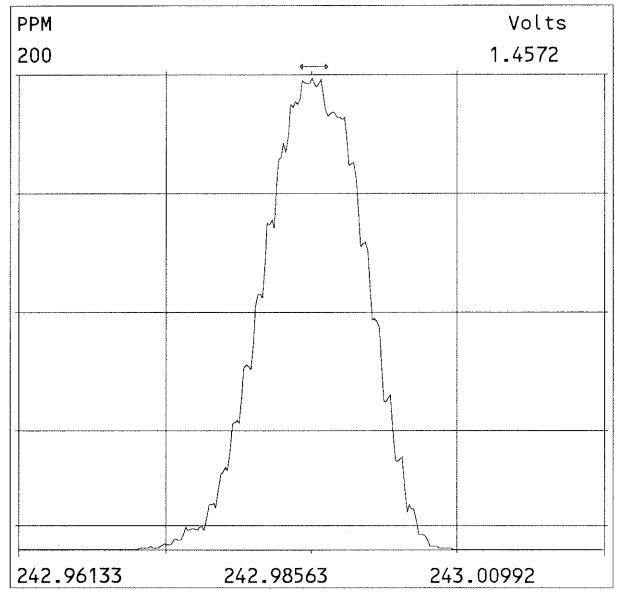


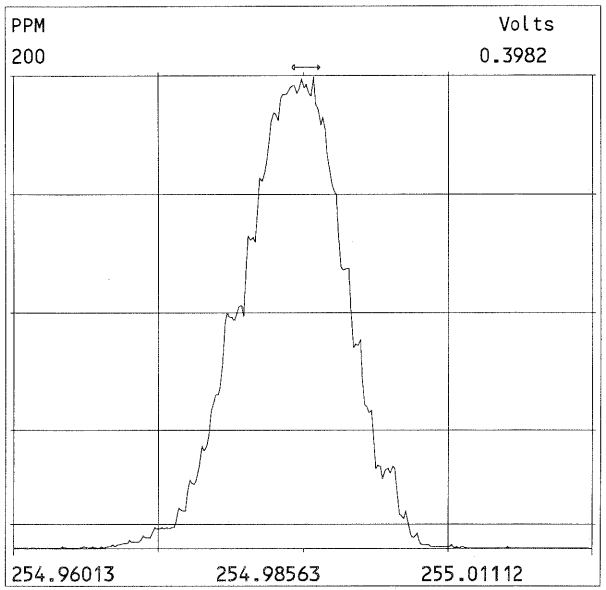


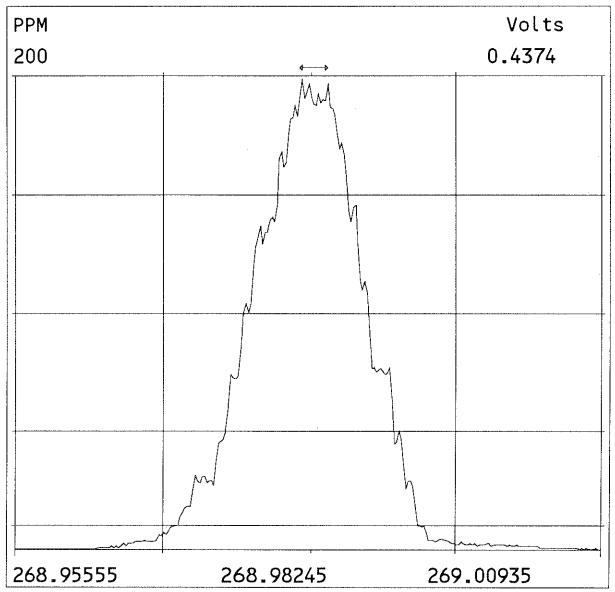
Peak Locate Examination: 8-FEB-2016:06:23 File:08FEB16Z
Experiment:1668PCB Function:2 Reference:PFK

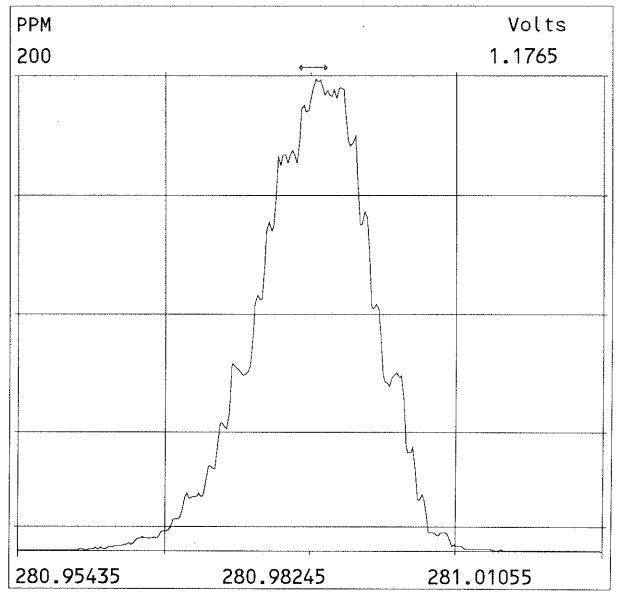




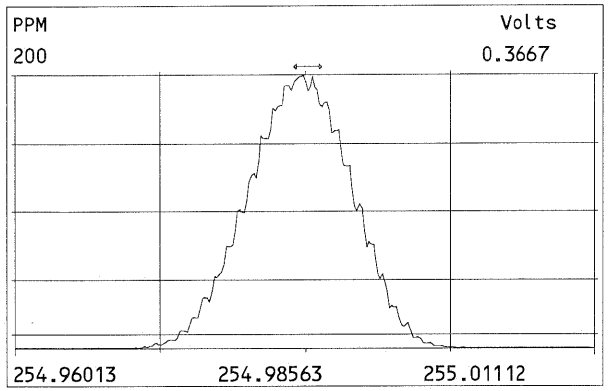


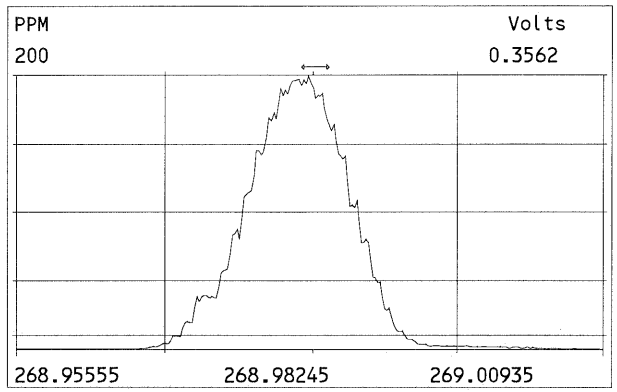


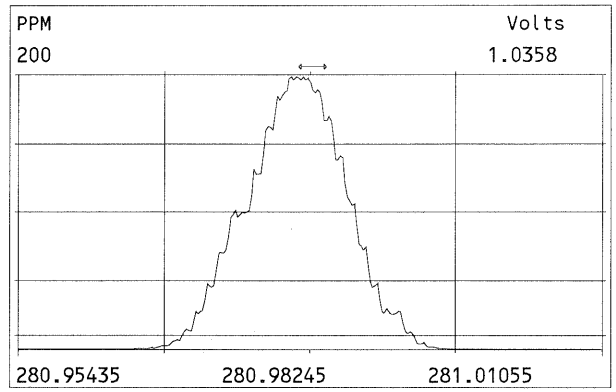


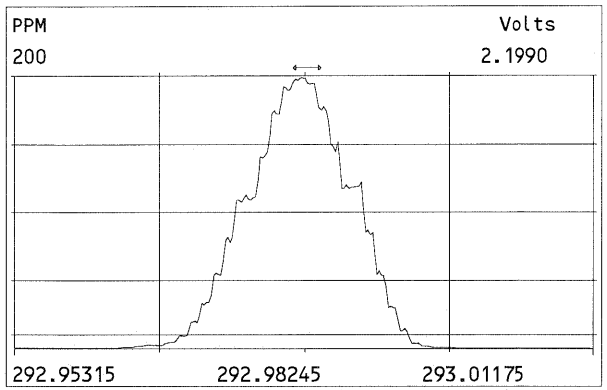


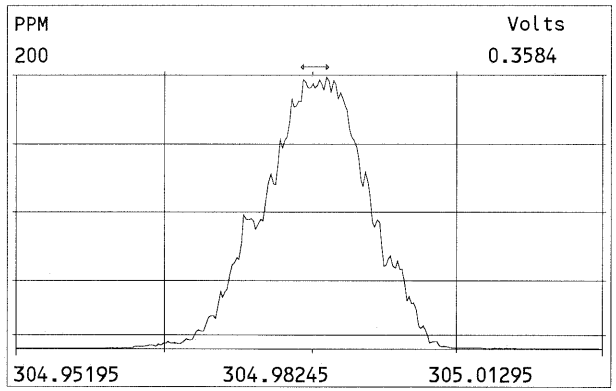
Peak Locate Examination: 8-FEB-2016:06:23 File:08FEB16Z
Experiment:1668PCB Function:3 Reference:PFK

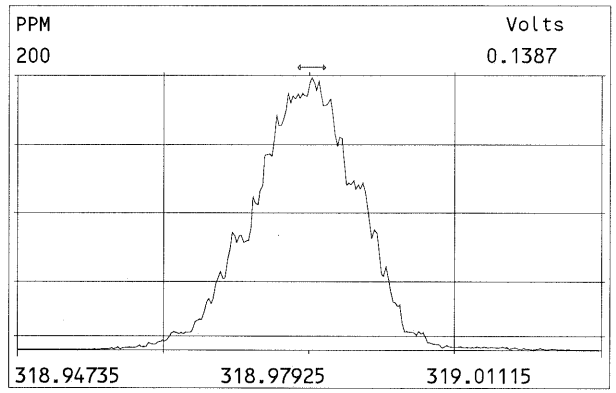


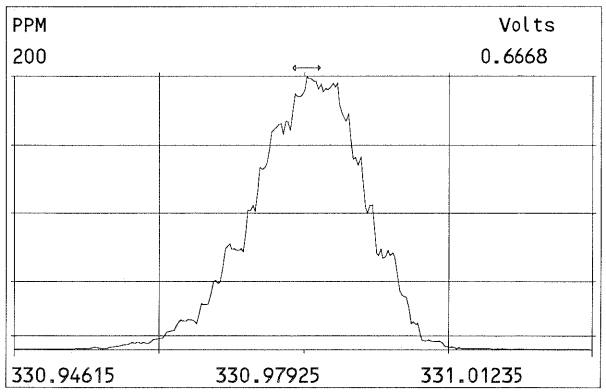


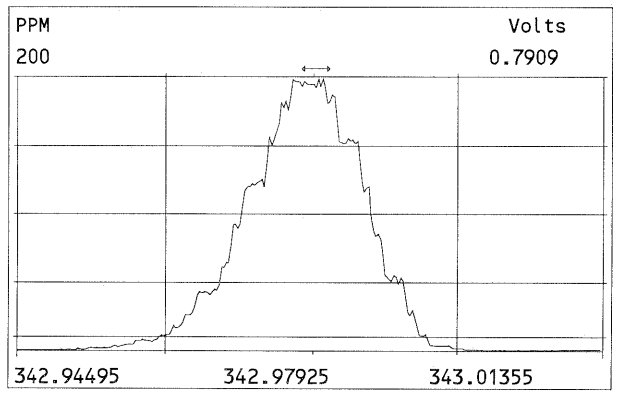




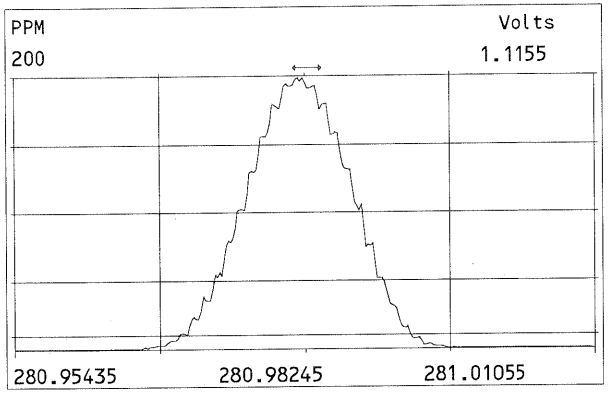


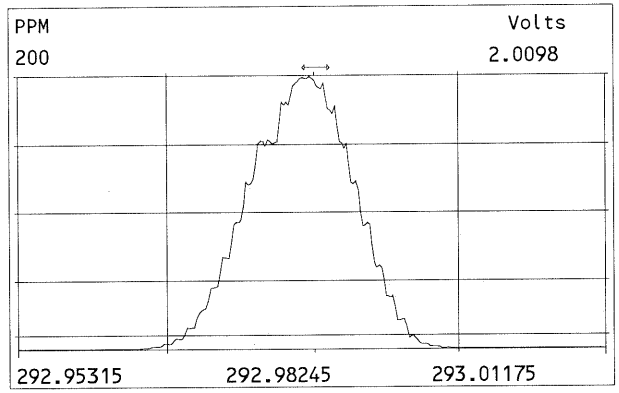


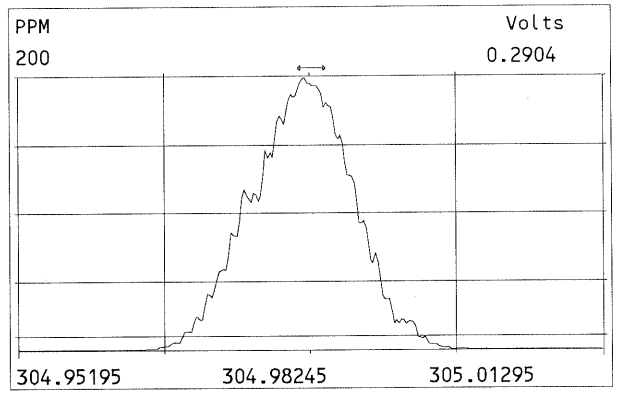


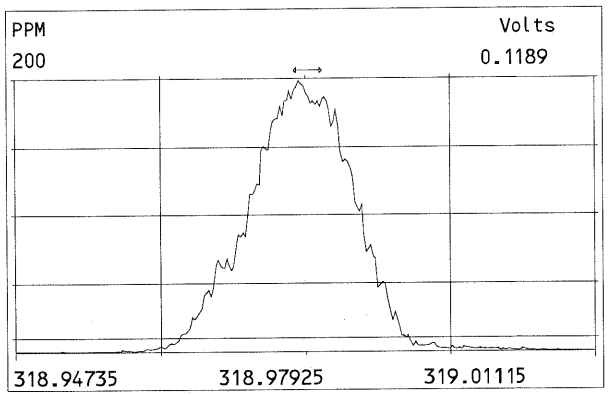


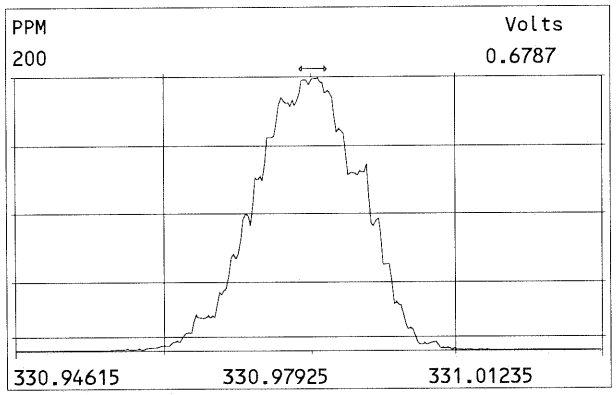
Peak Locate Examination: 8-FEB-2016:06:24 File:08FEB16Z
Experiment:1668PCB Function:4 Reference:PFK

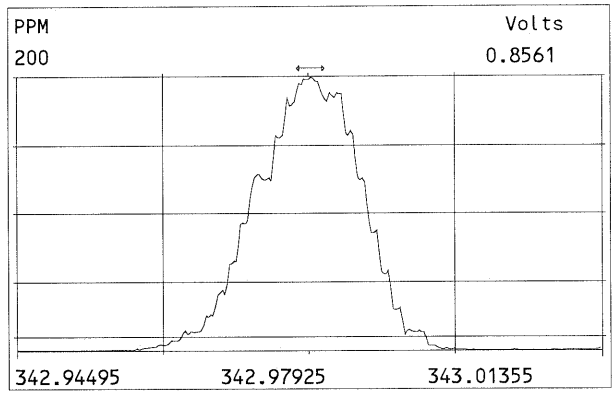


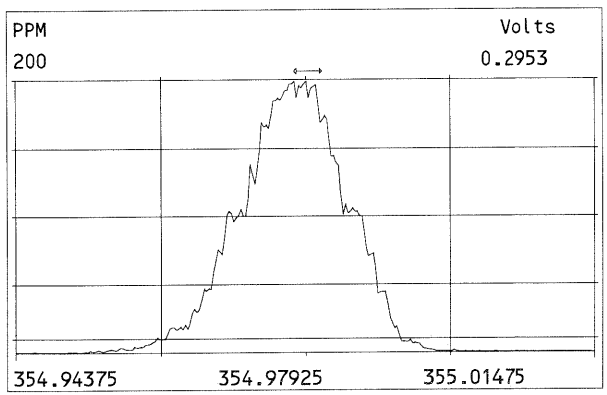


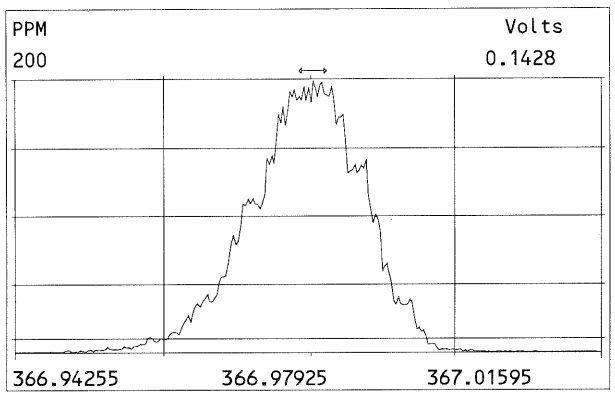


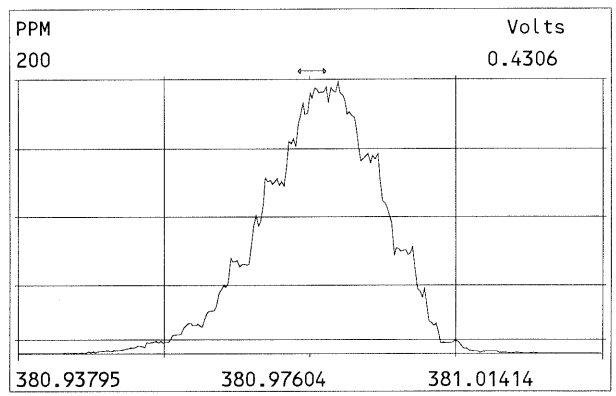




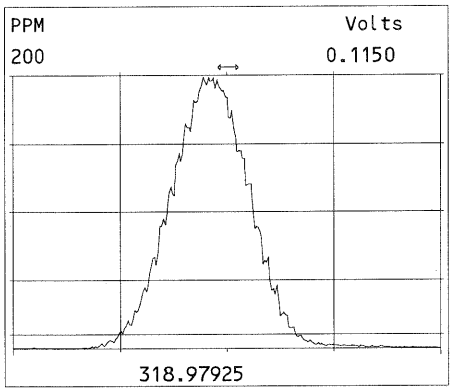


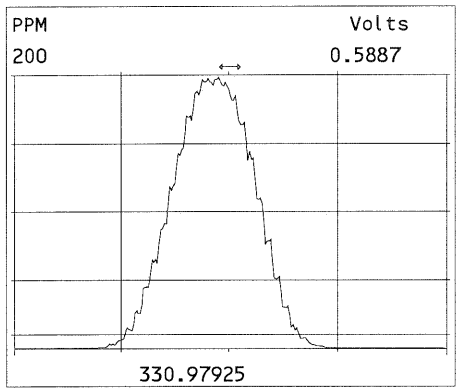


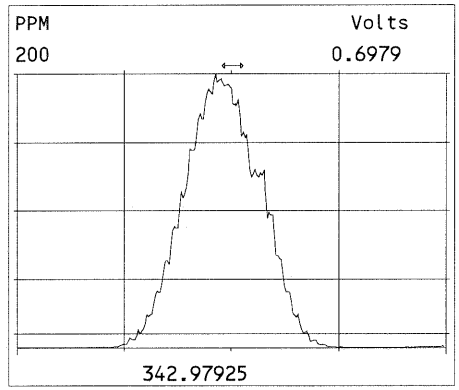


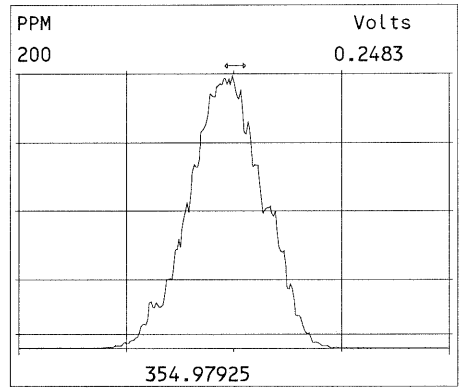


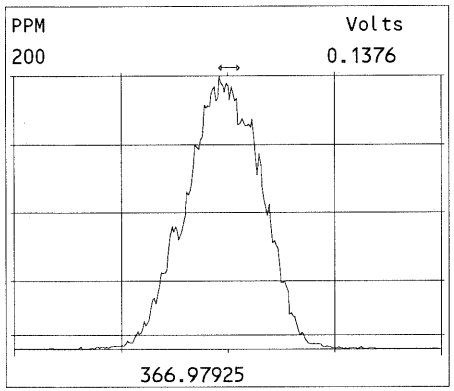
Peak Locate Examination: 8-FEB-2016:06:24 File:08FEB16Z
Experiment:1668PCB Function:5 Reference:PFK

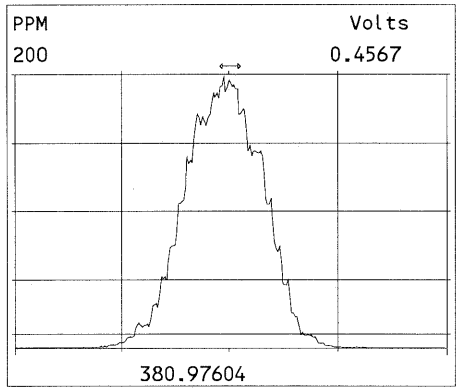


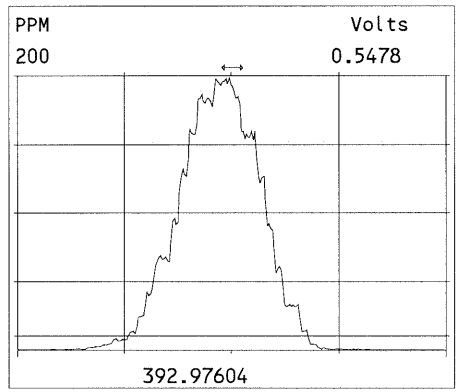


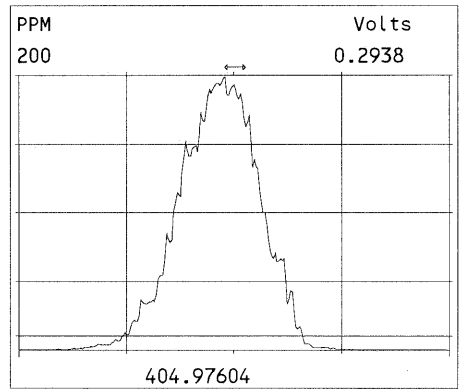


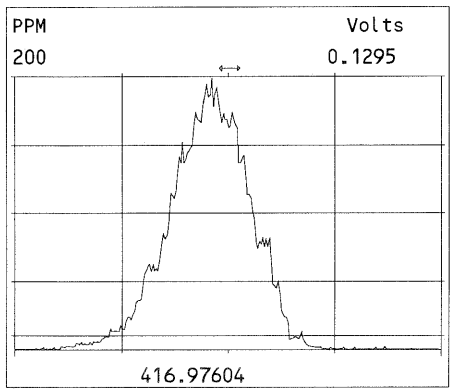


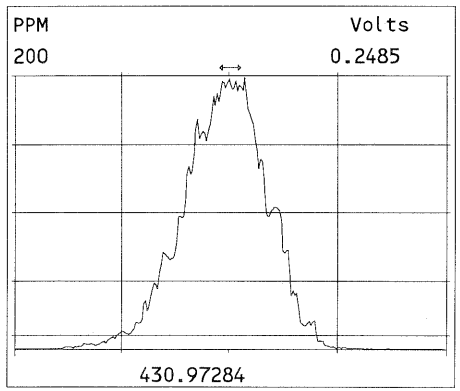


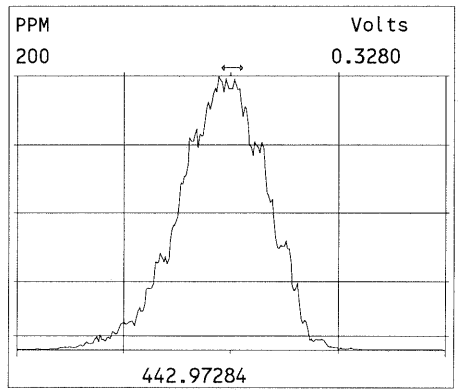




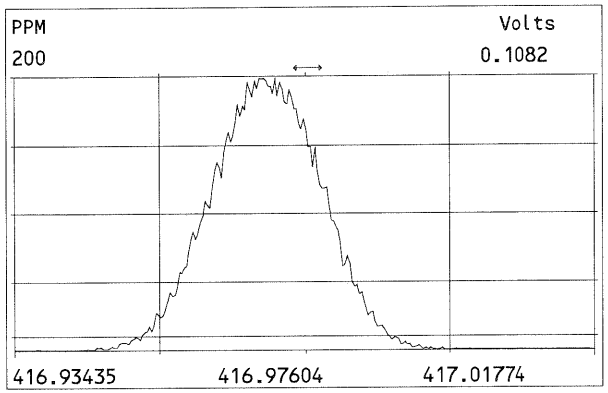


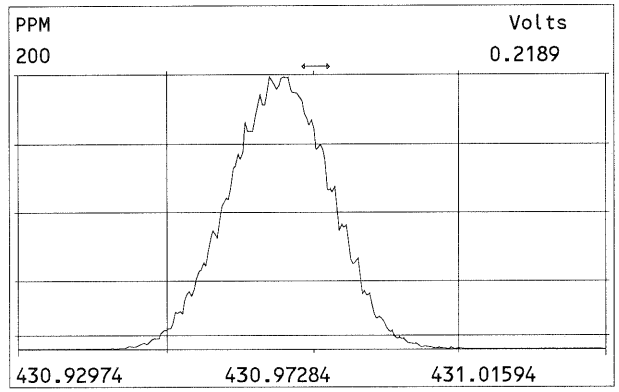


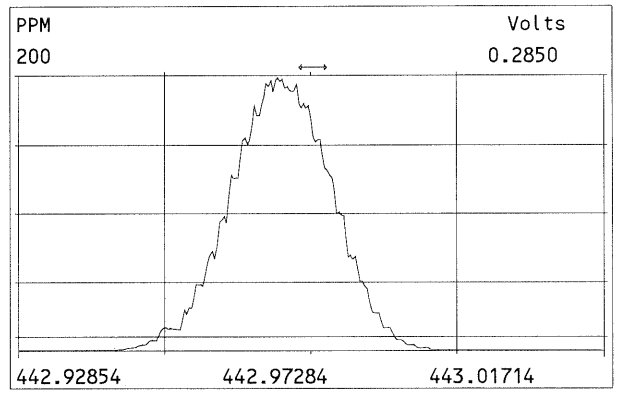


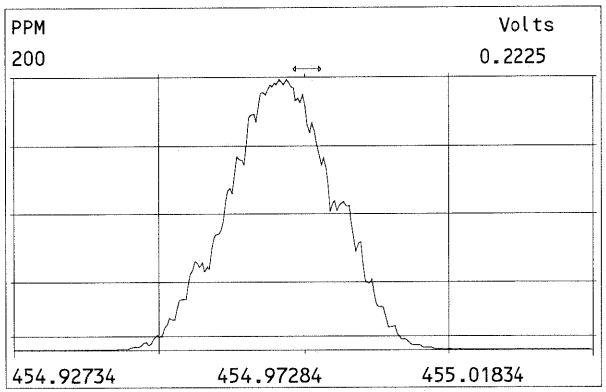


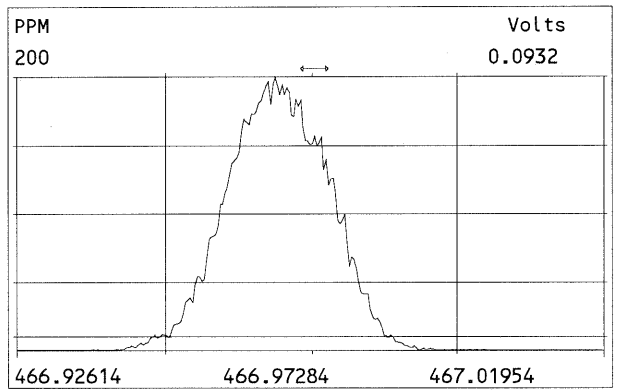
Peak Locate Examination: 8-FEB-2016:06:25 File:08FEB16Z
Experiment:1668PCB Function:6 Reference:PFK

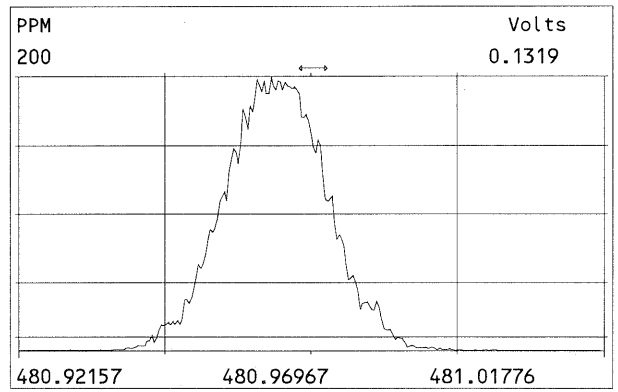


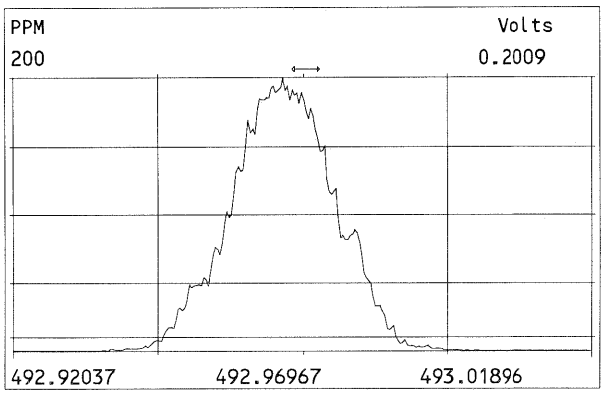


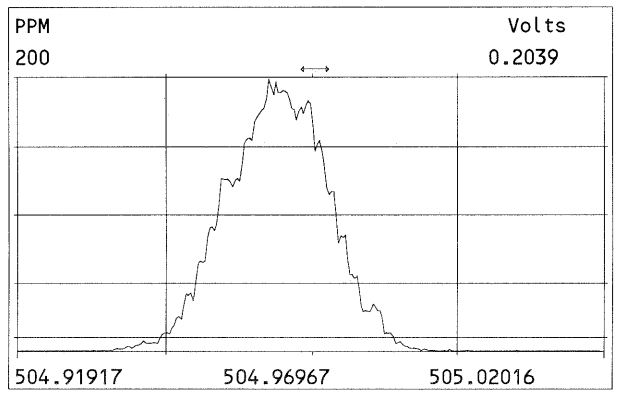


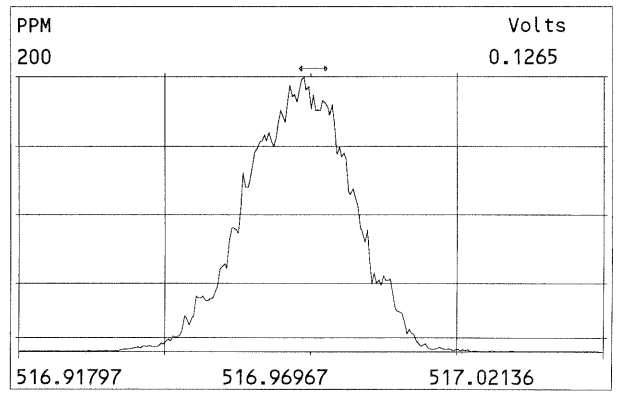




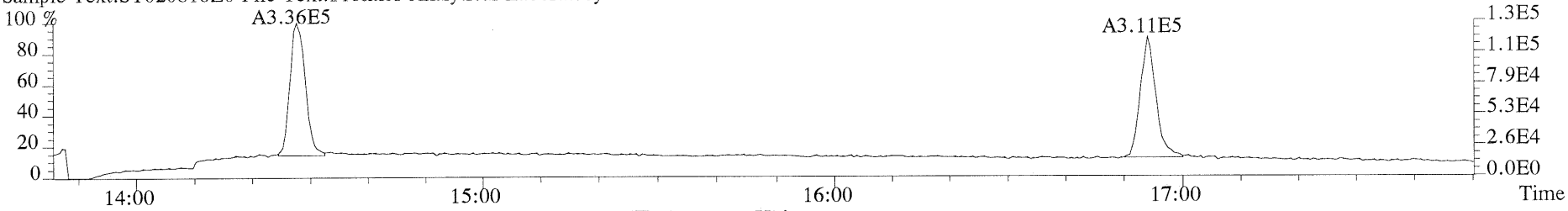




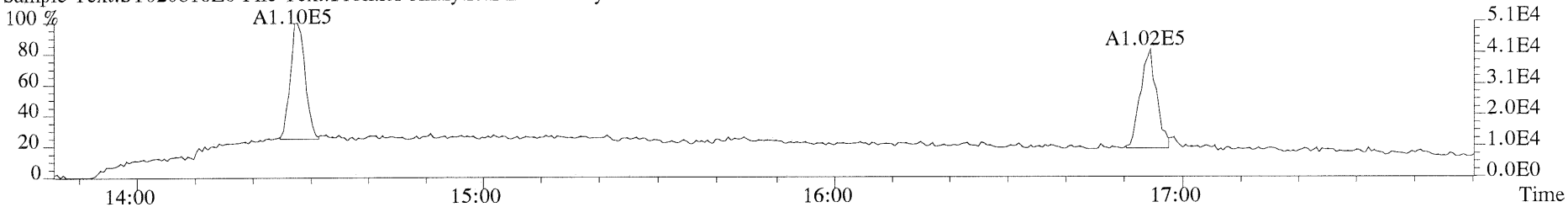




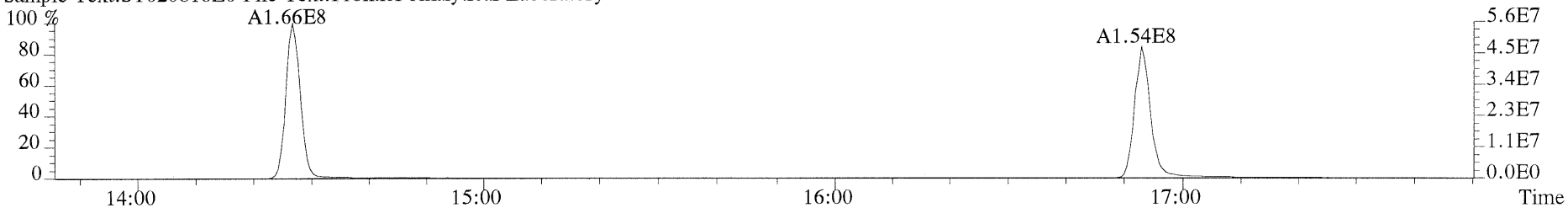
File:08FEB16Z #1-489 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



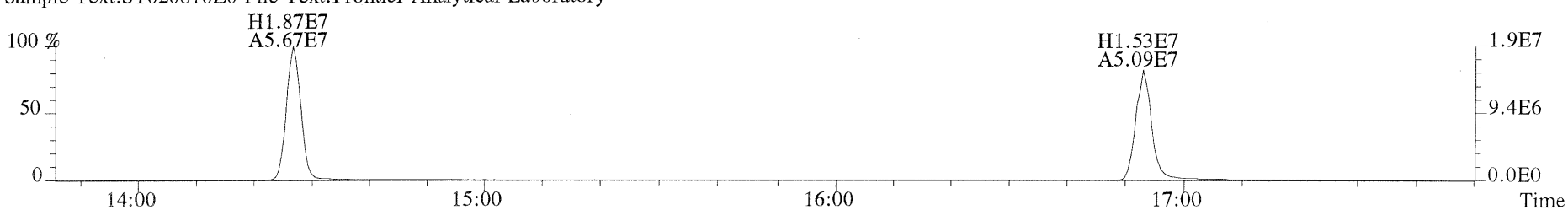
File:08FEB16Z #1-489 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



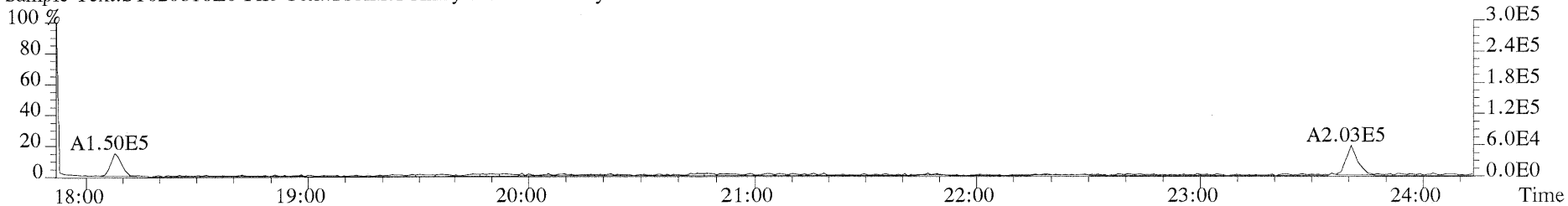
File:08FEB16Z #1-489 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



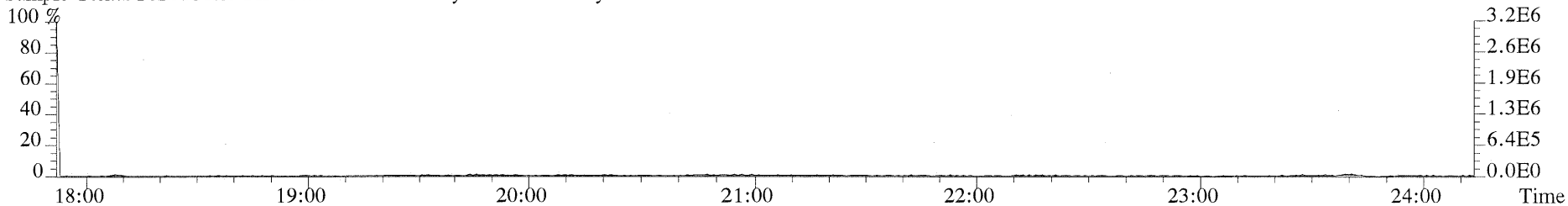
File:08FEB16Z #1-489 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



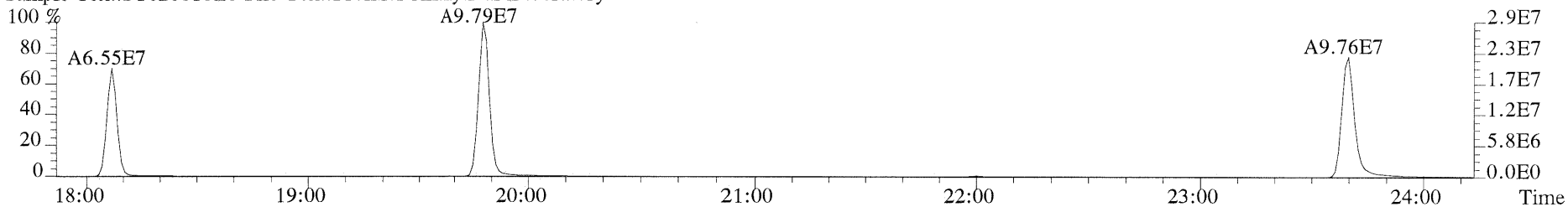
File:08FEB16Z #1-503 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



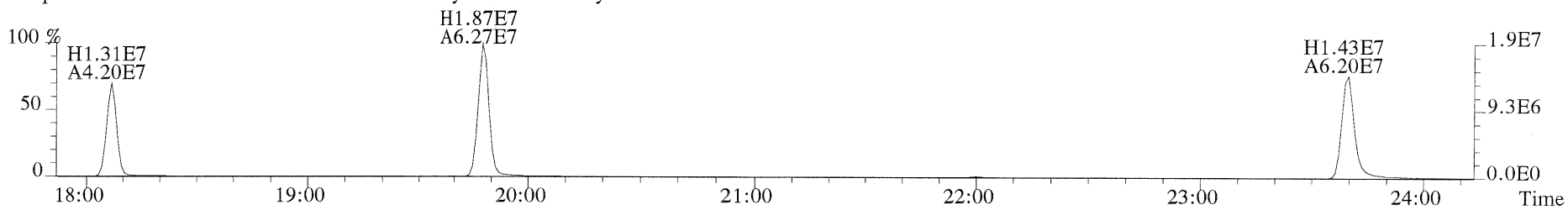
File:08FEB16Z #1-503 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



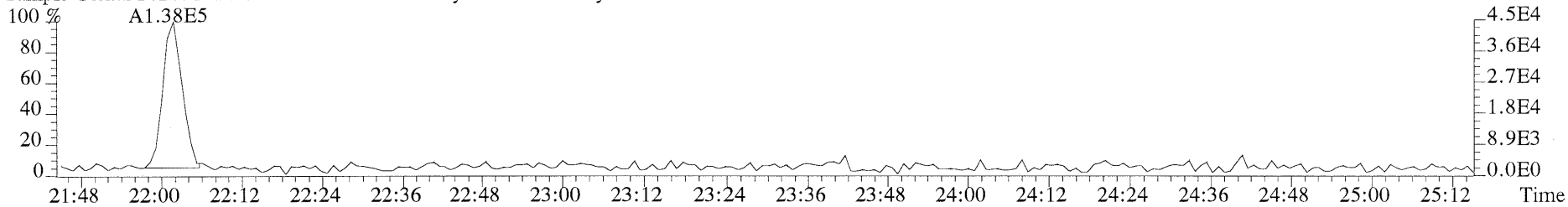
File:08FEB16Z #1-503 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



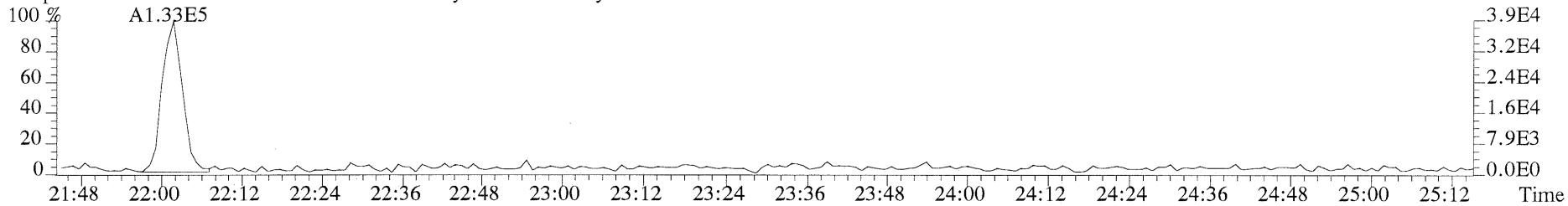
File:08FEB16Z #1-503 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



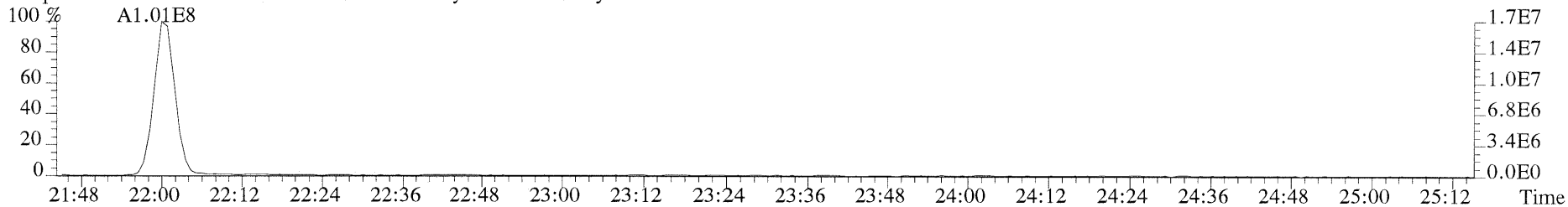
File:08FEB16Z #1-503 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



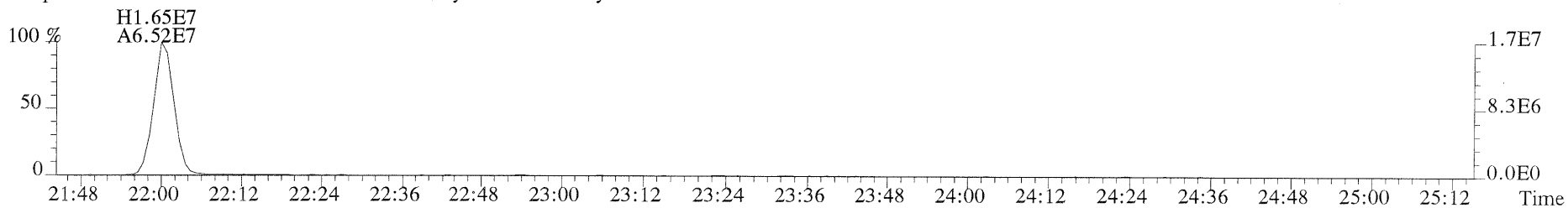
File:08FEB16Z #1-503 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



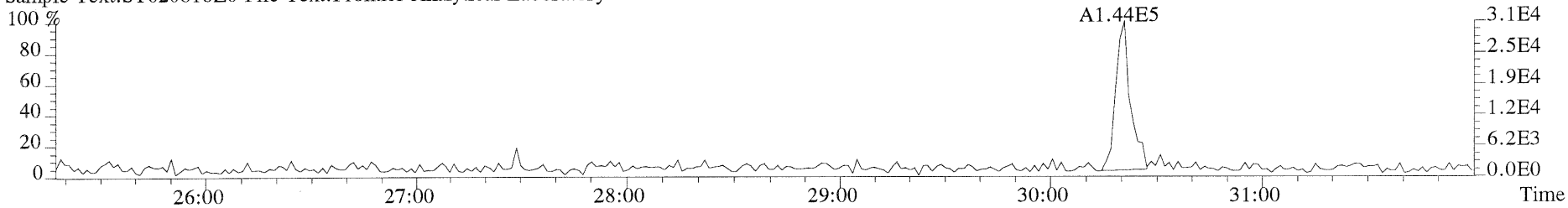
File:08FEB16Z #1-503 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



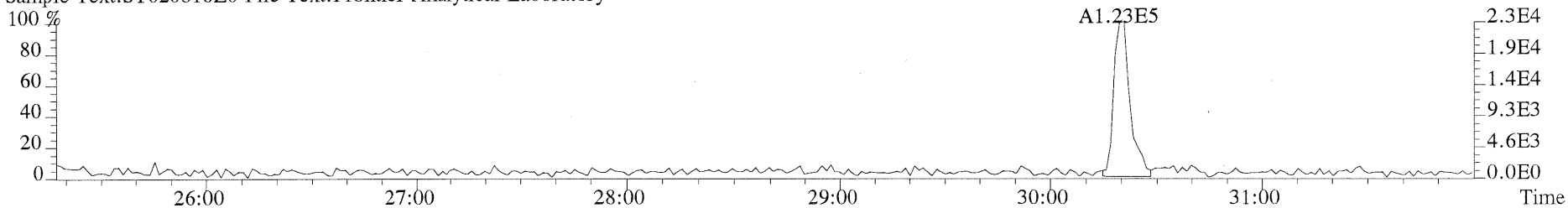
File:08FEB16Z #1-503 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



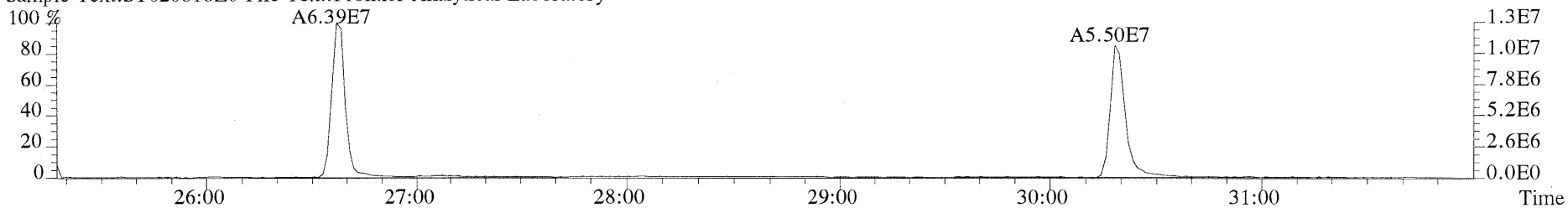
File:08FEB16Z #1-399 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



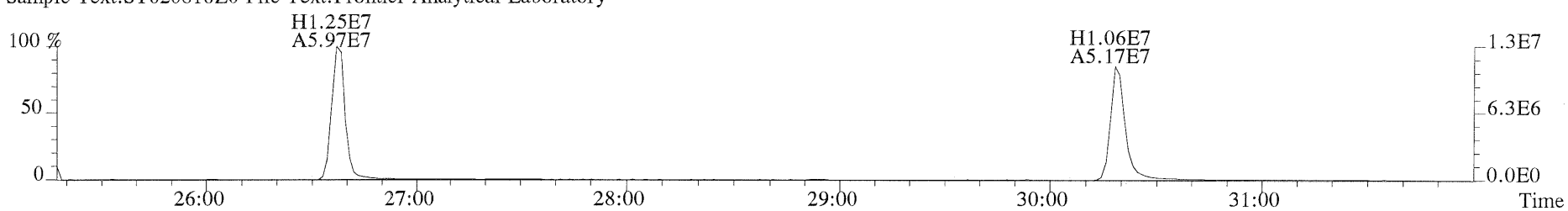
File:08FEB16Z #1-399 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



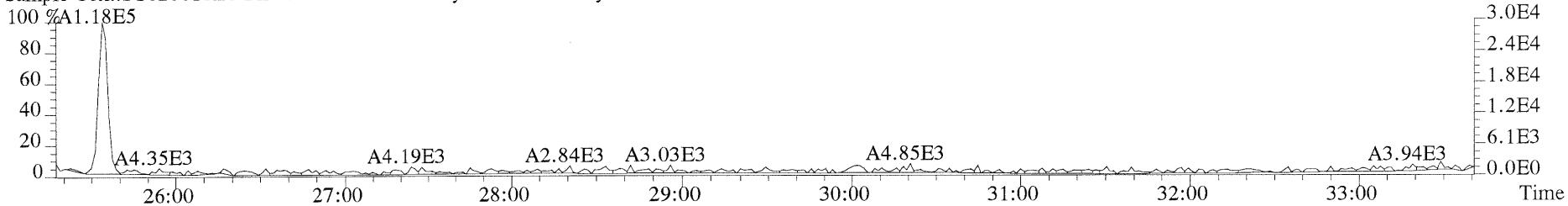
File:08FEB16Z #1-399 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



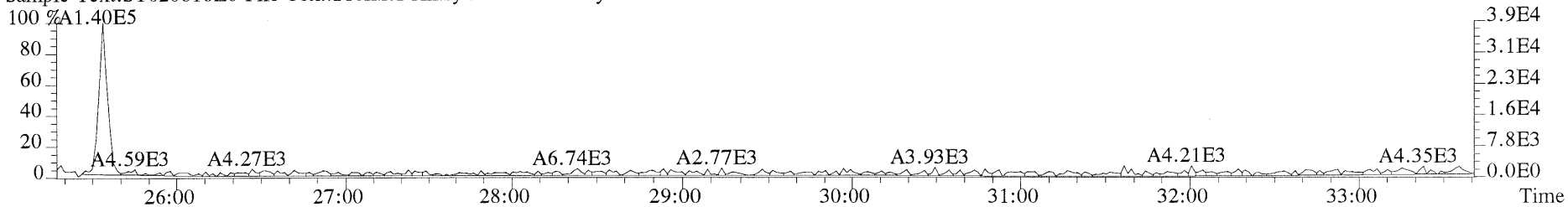
File:08FEB16Z #1-399 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



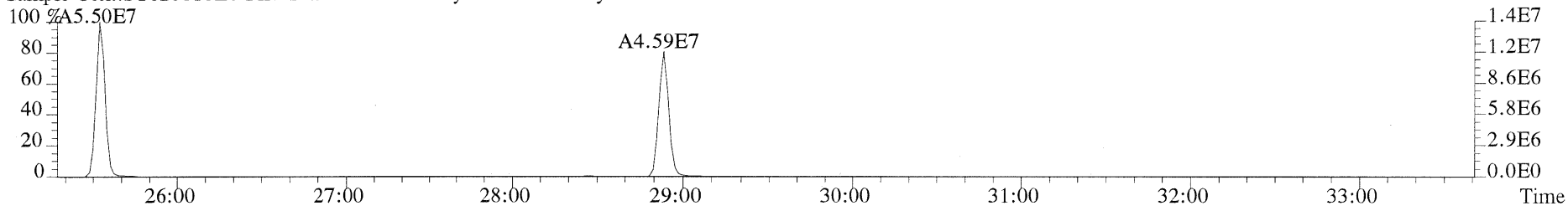
File:08FEB16Z #1-399 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



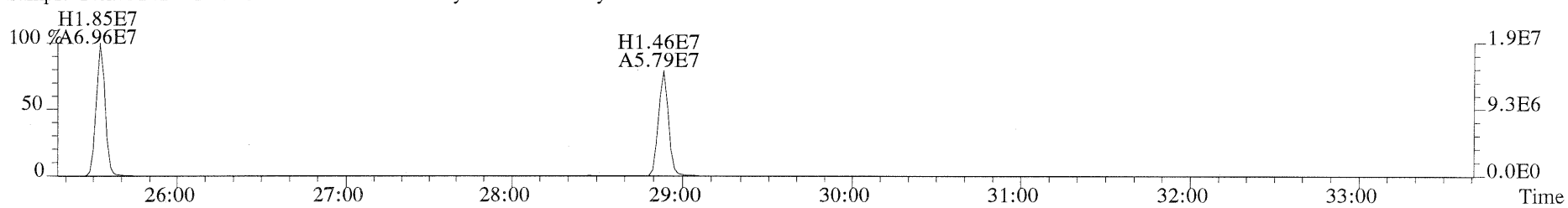
File:08FEB16Z #1-399 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



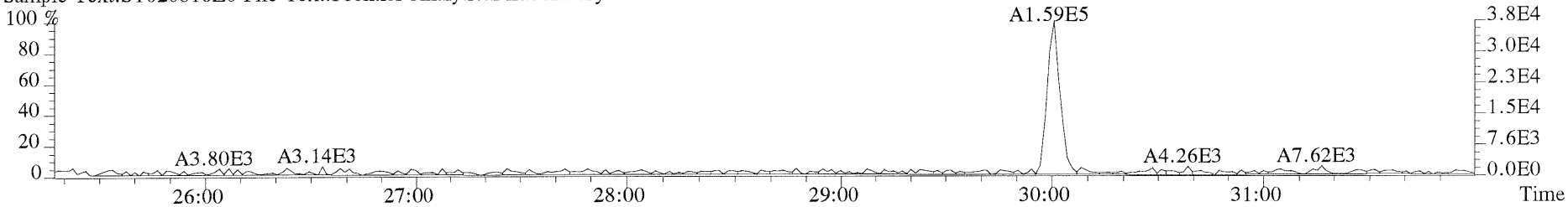
File:08FEB16Z #1-399 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



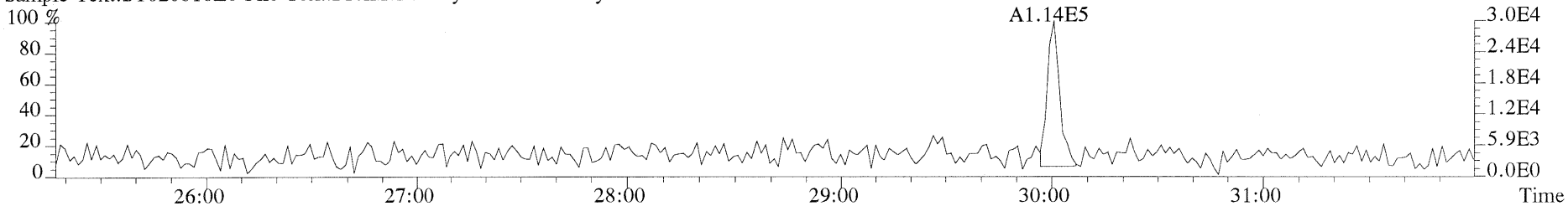
File:08FEB16Z #1-399 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



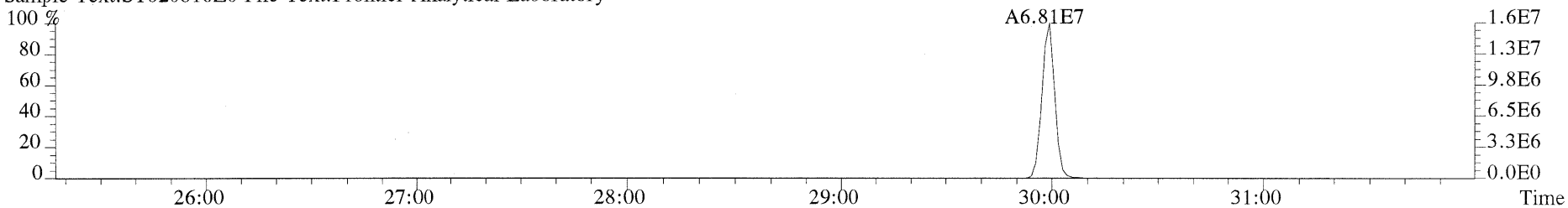
File:08FEB16Z #1-399 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



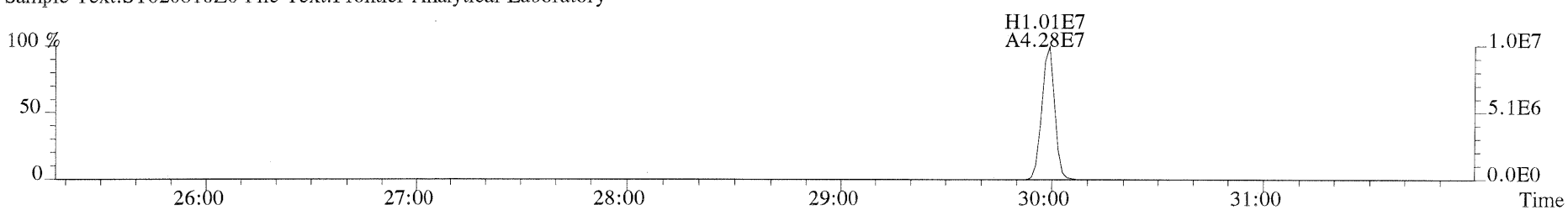
File:08FEB16Z #1-399 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



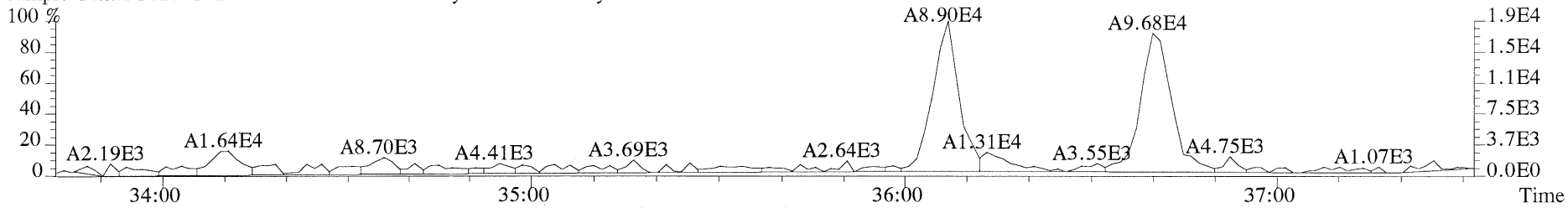
File:08FEB16Z #1-399 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



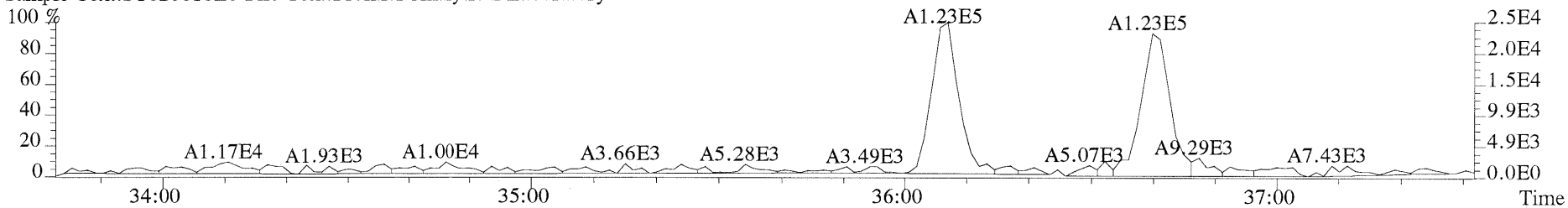
File:08FEB16Z #1-399 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



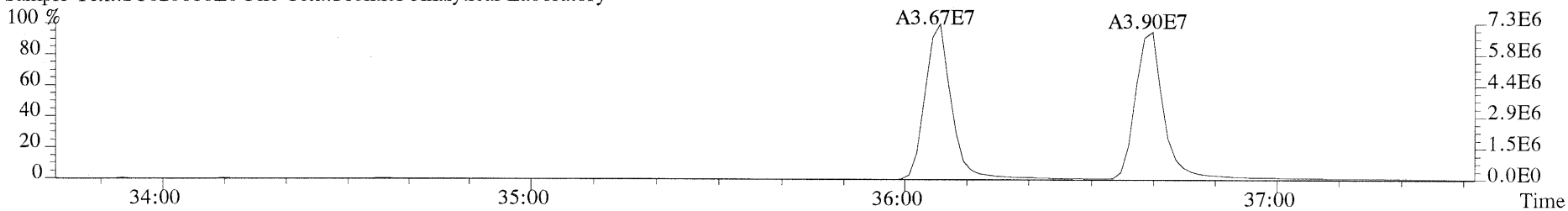
File:08FEB16Z #1-182 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



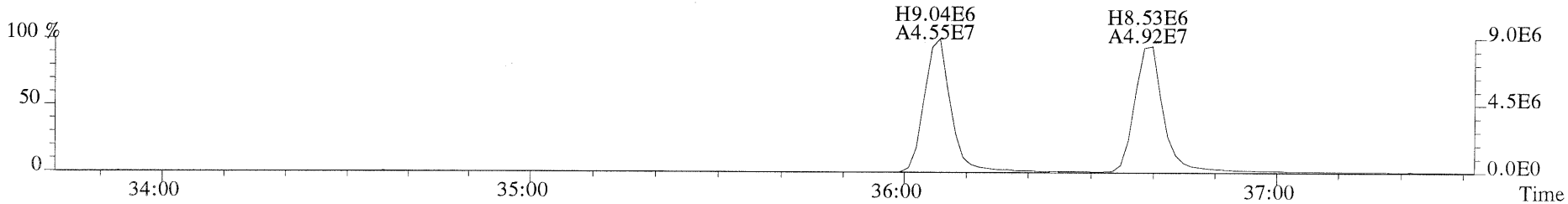
File:08FEB16Z #1-182 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



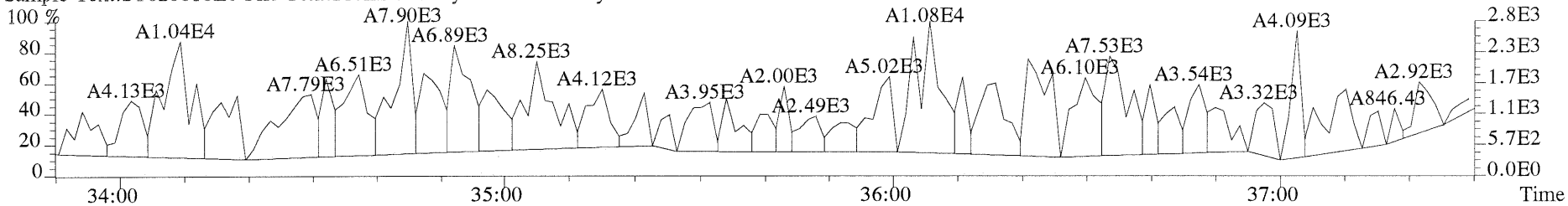
File:08FEB16Z #1-182 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



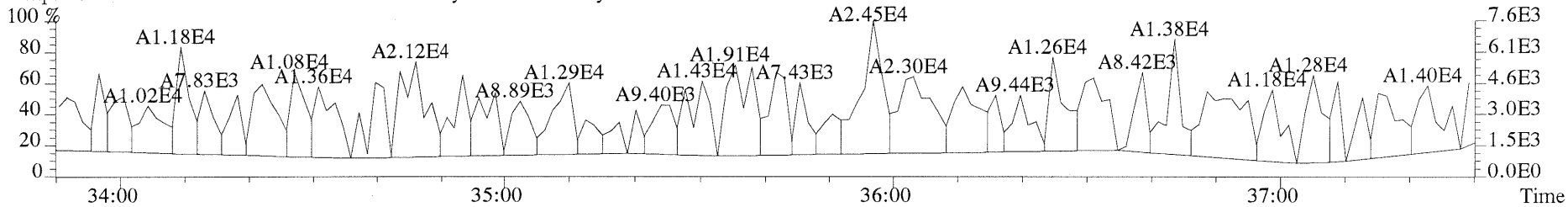
File:08FEB16Z #1-182 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



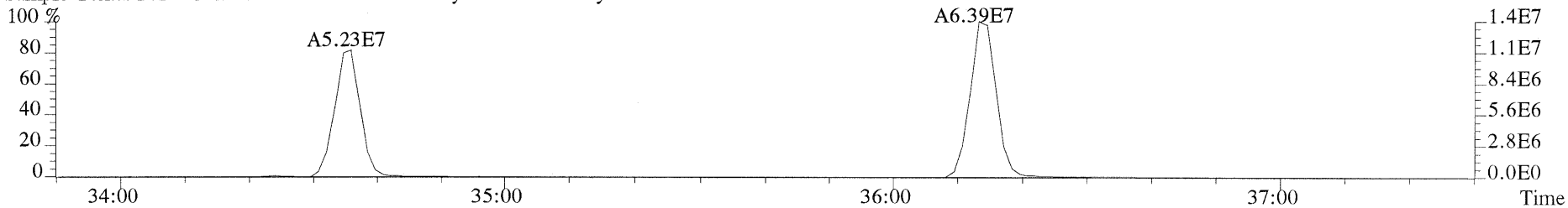
File:08FEB16Z #1-182 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 07:25:55 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:ST020816Z0 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 07:25:55 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:ST020816Z0 File Text:Frontier Analytical Laboratory



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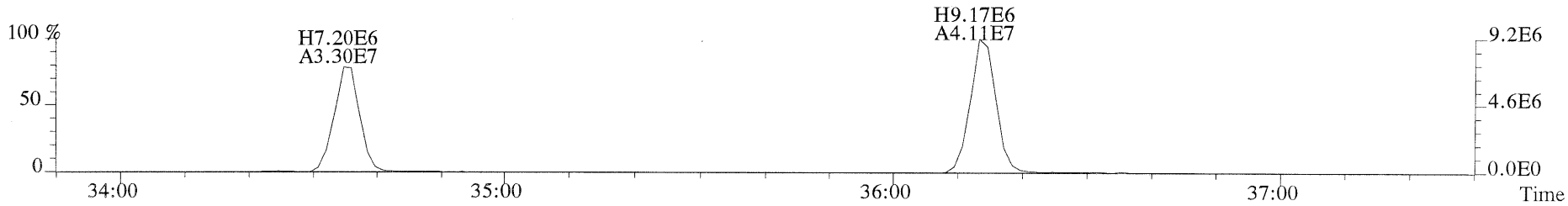
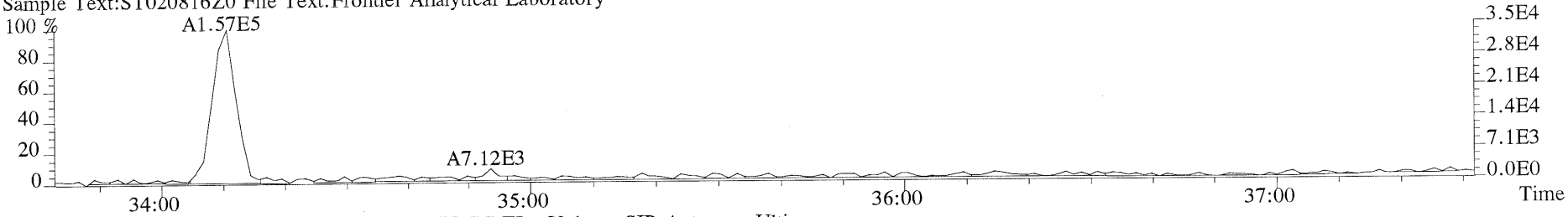
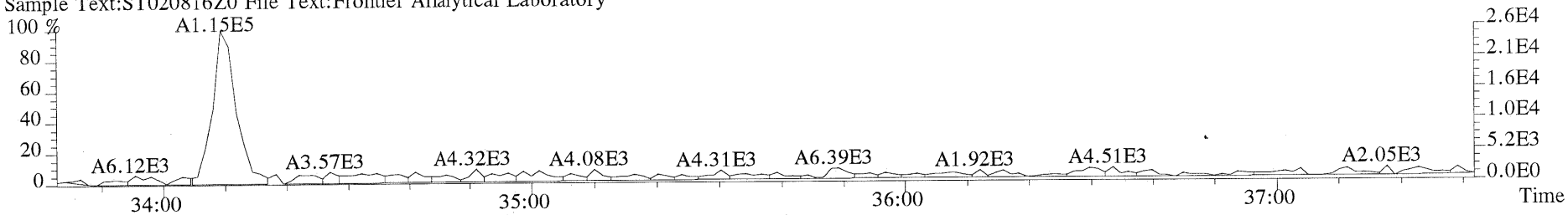
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



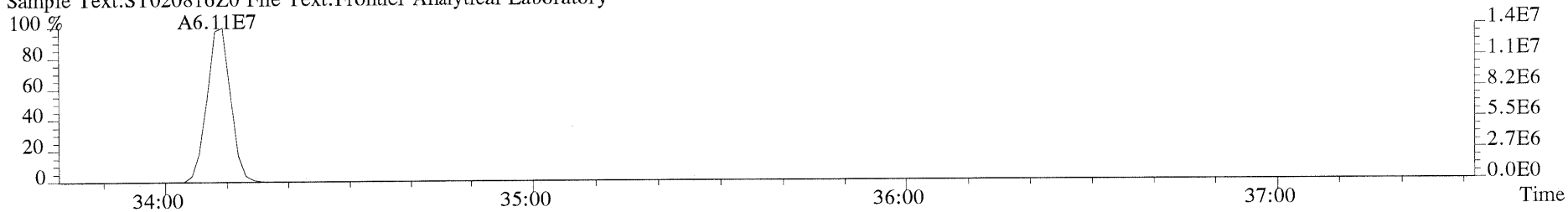
File:08FEB16Z #1-182 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



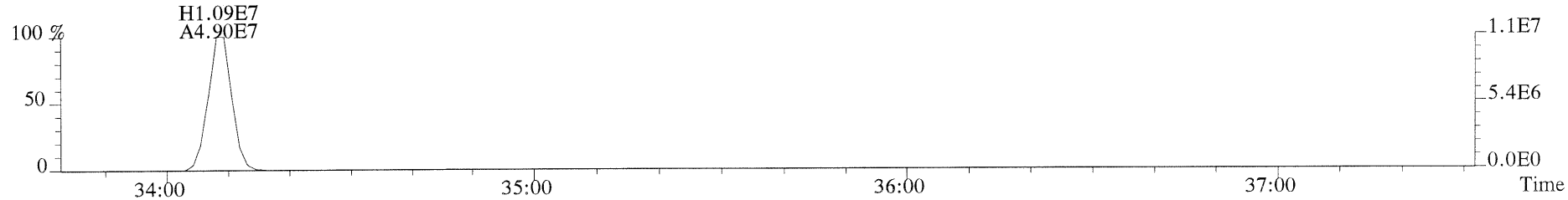
File:08FEB16Z #1-182 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
371.8817 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:ST020816Z0 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
373.8788 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:ST020816Z0 File Text:Frontier Analytical Laboratory



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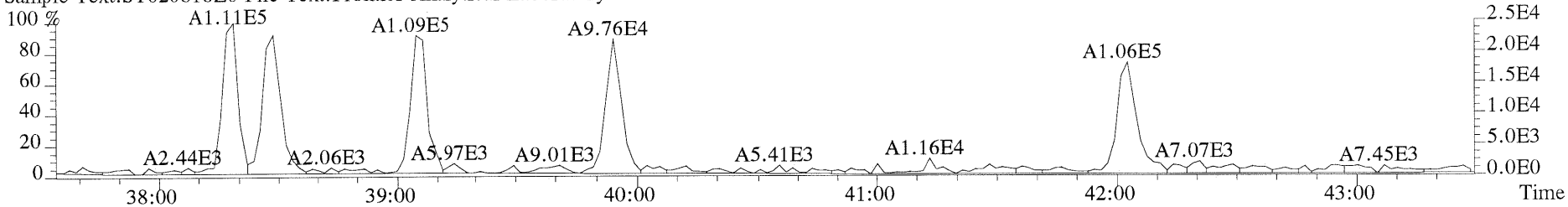
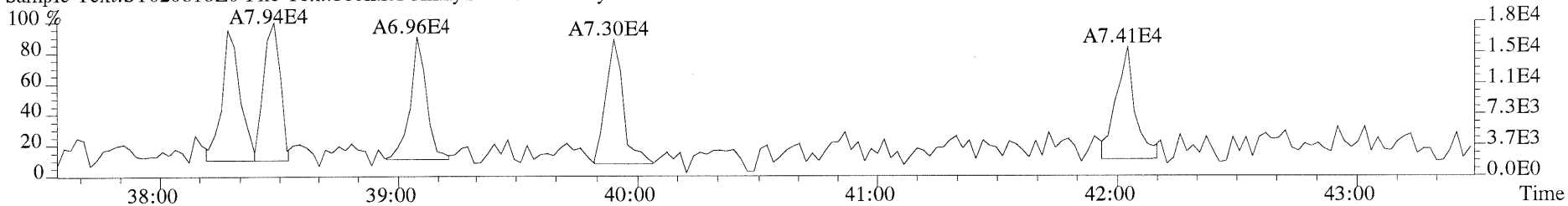
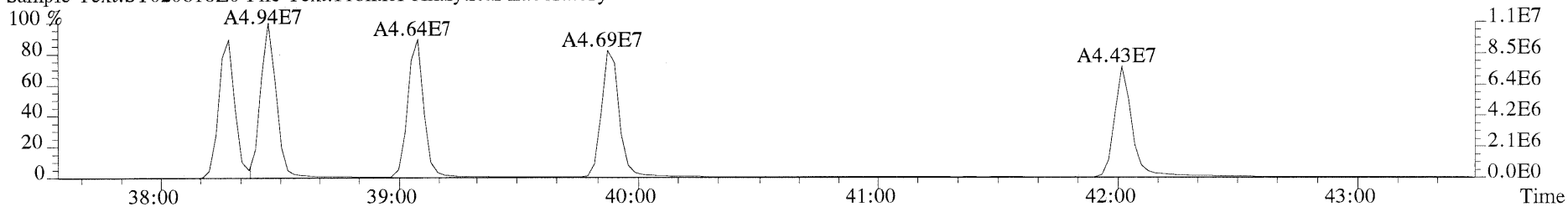
325.8804 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



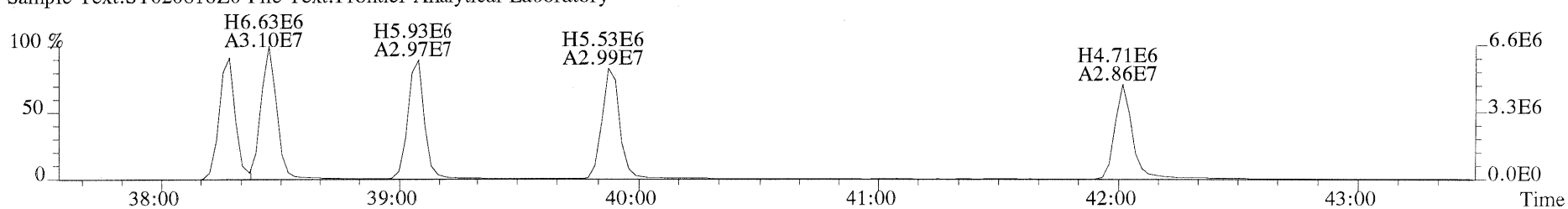
File:08FEB16Z #1-412 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



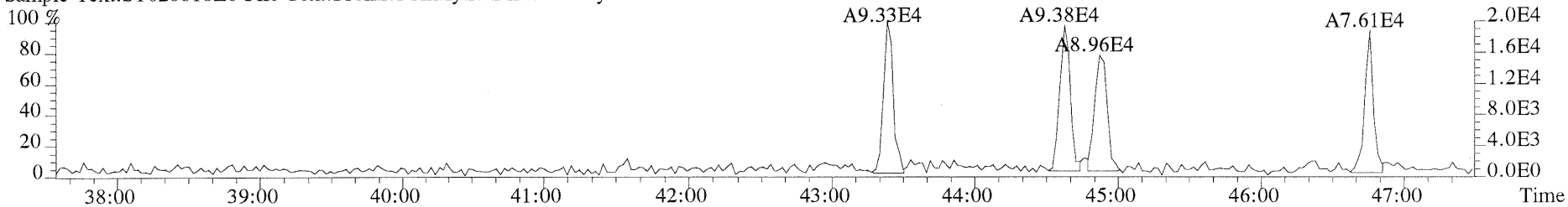
File:08FEB16Z #1-412 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



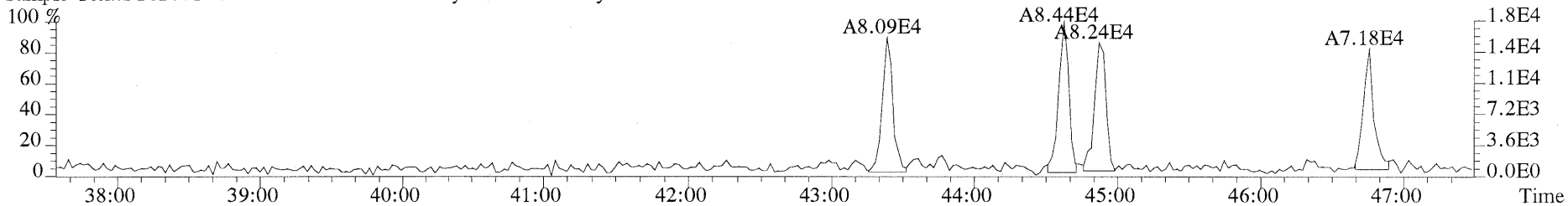
File:08FEB16Z #1-412 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



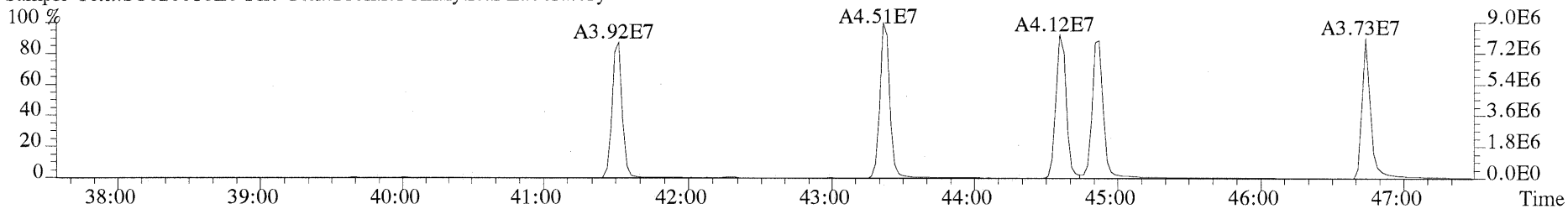
File:08FEB16Z #1-412 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-412 Acq: 8-FEB-2016 07:25:55 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:ST020816Z0 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-412 Acq: 8-FEB-2016 07:25:55 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:ST020816Z0 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-412 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
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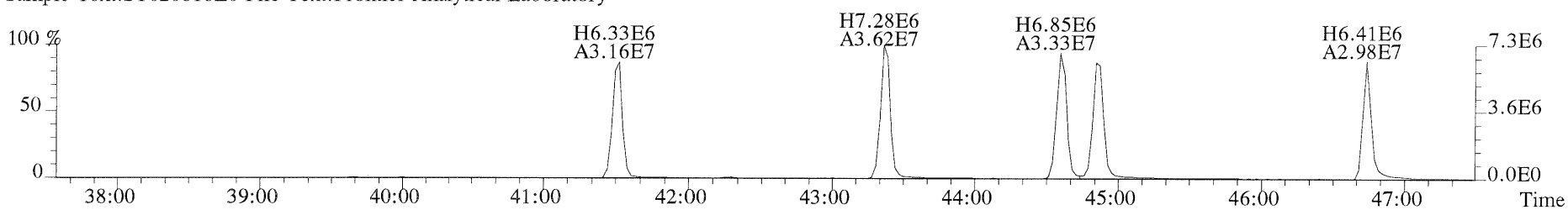

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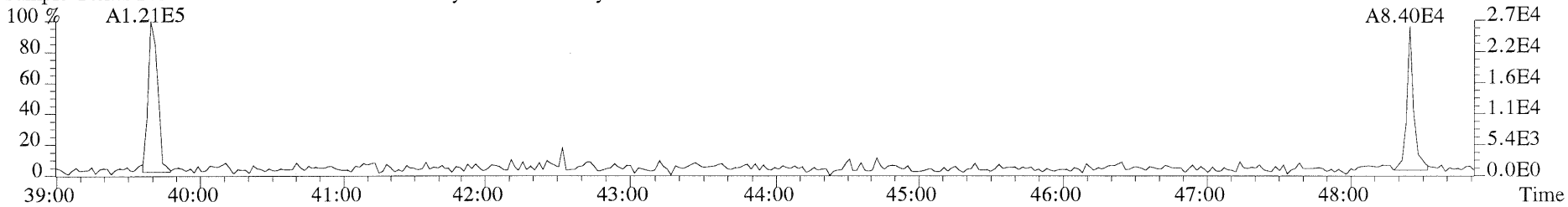
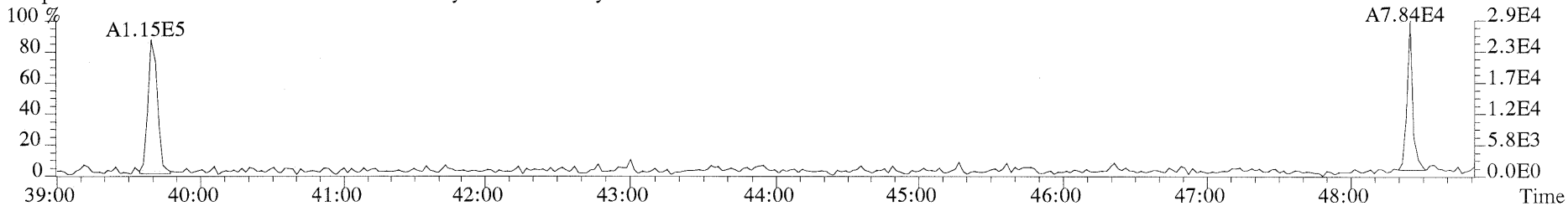
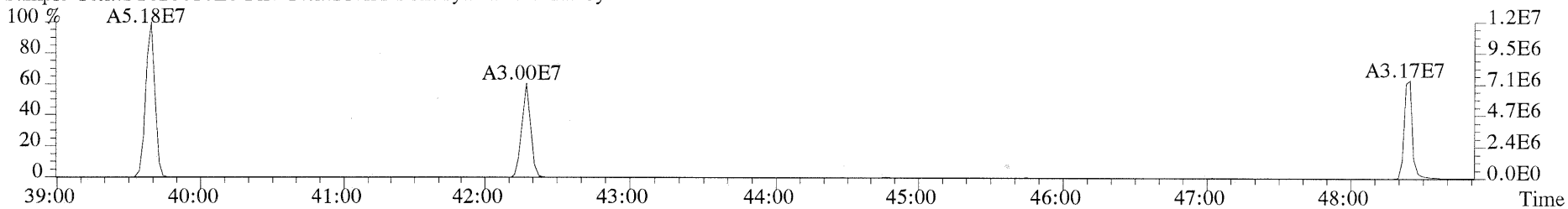
393.8025 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



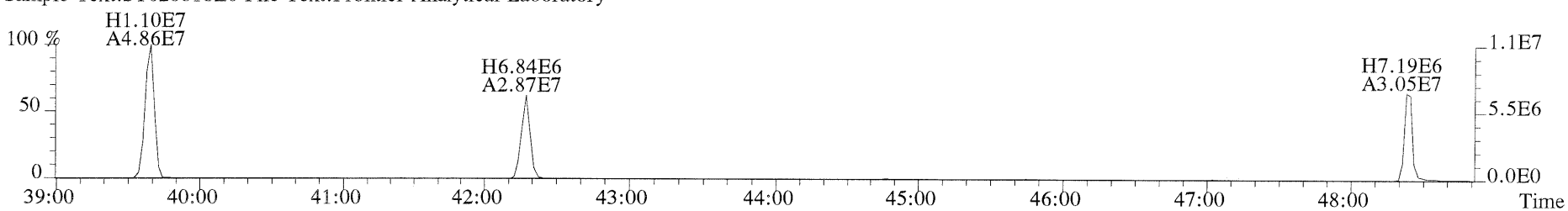
File:08FEB16Z #1-412 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



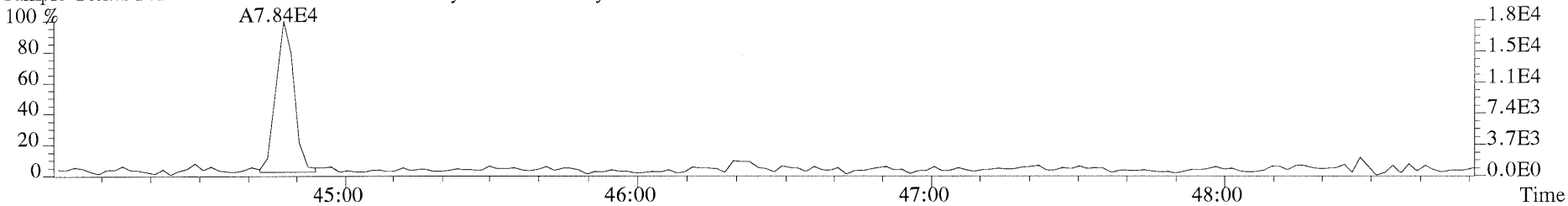
File:08FEB16Z #1-412 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-412 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
407.8398 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:ST020816Z0 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-412 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
427.7635 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:ST020816Z0 File Text:Frontier Analytical Laboratory



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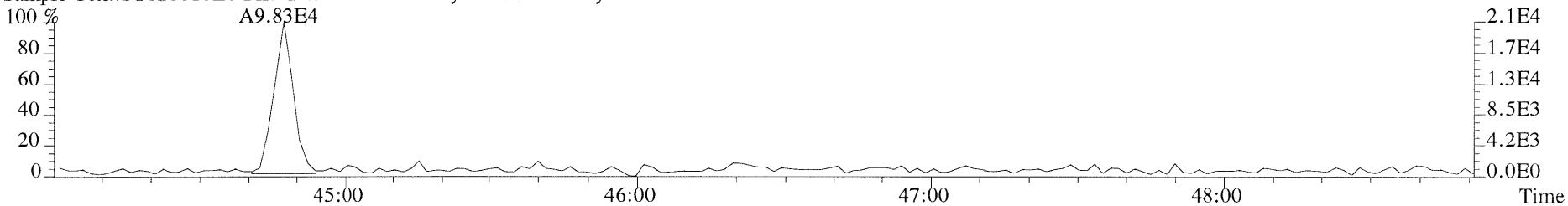
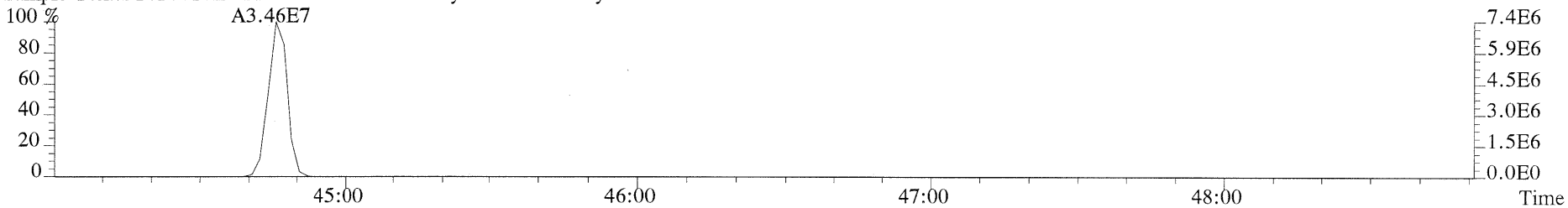
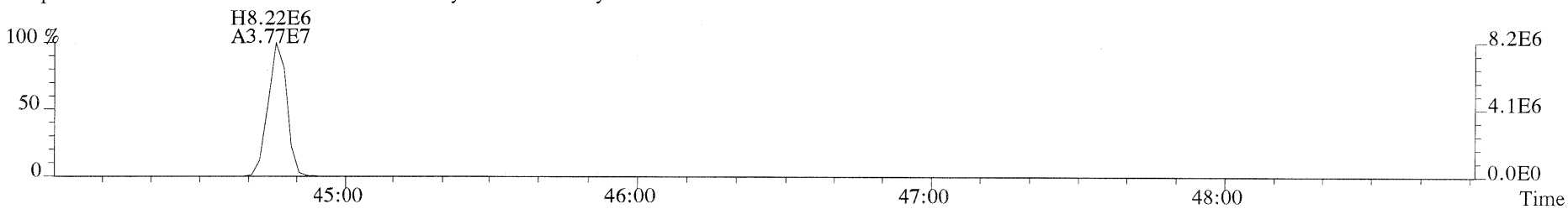
429.7606 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



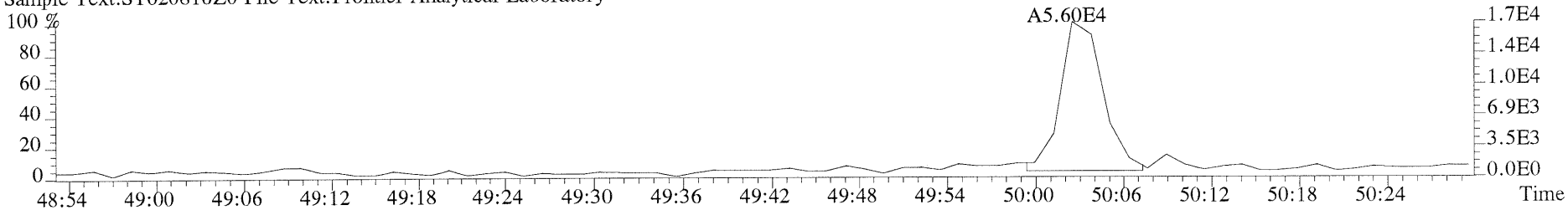
File:08FEB16Z #1-412 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-412 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
441.8008 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:ST020816Z0 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-217 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



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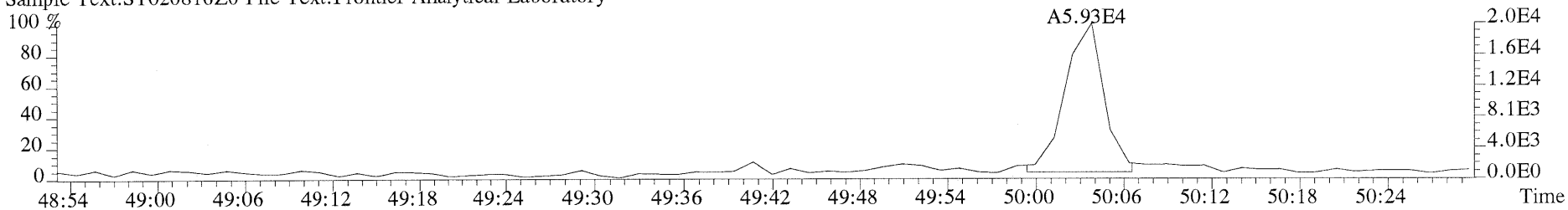
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-217 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
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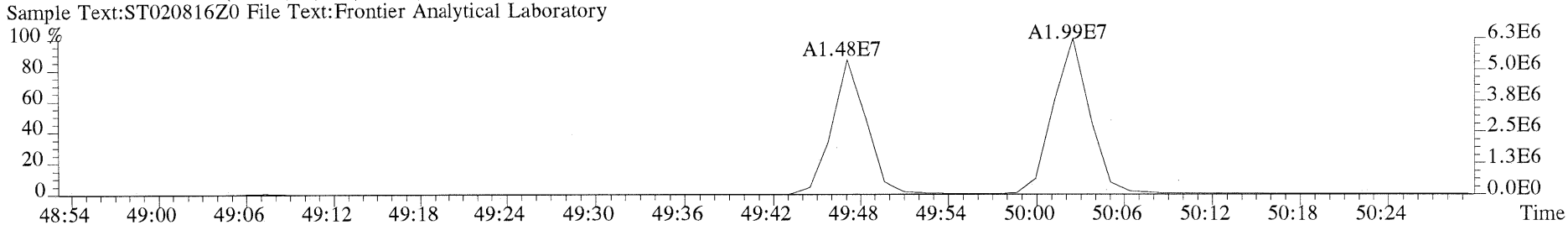
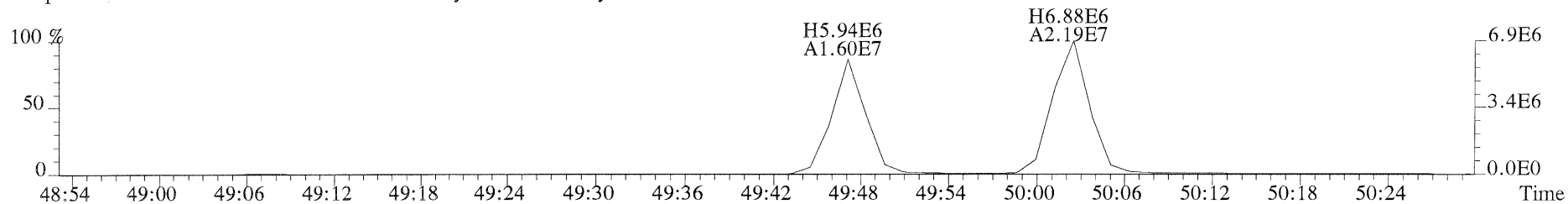
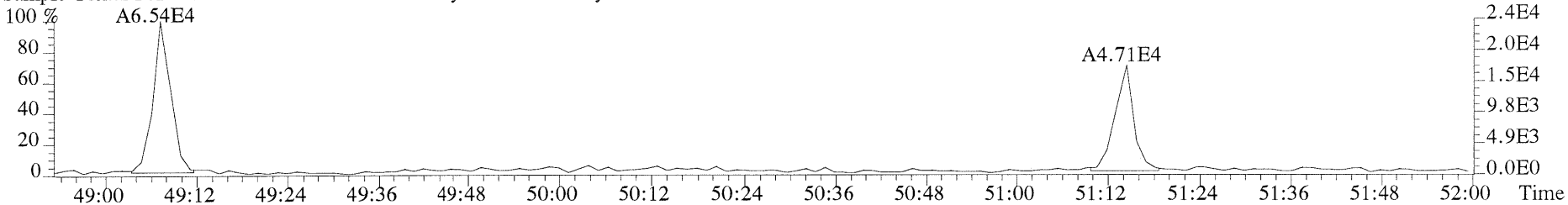
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



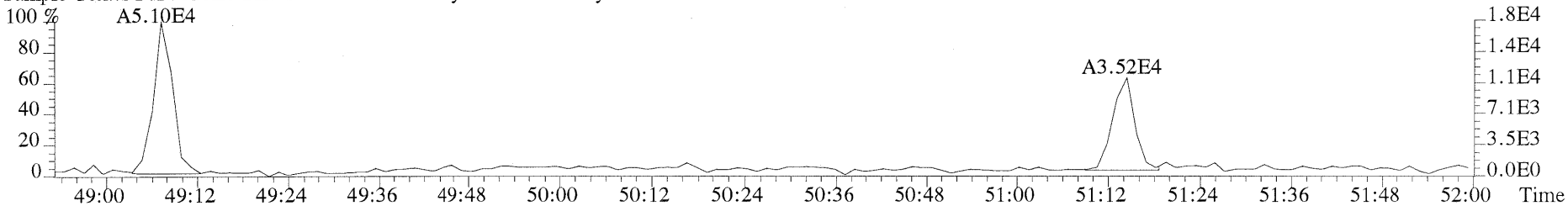
File:08FEB16Z #1-217 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



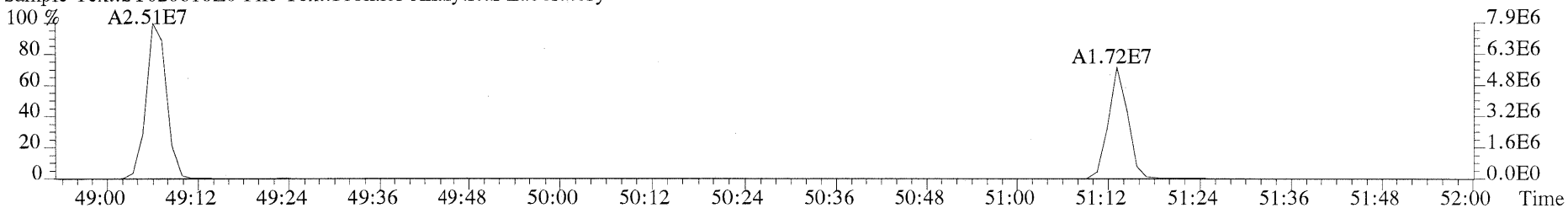
File:08FEB16Z #1-217 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-217 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-217 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-217 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
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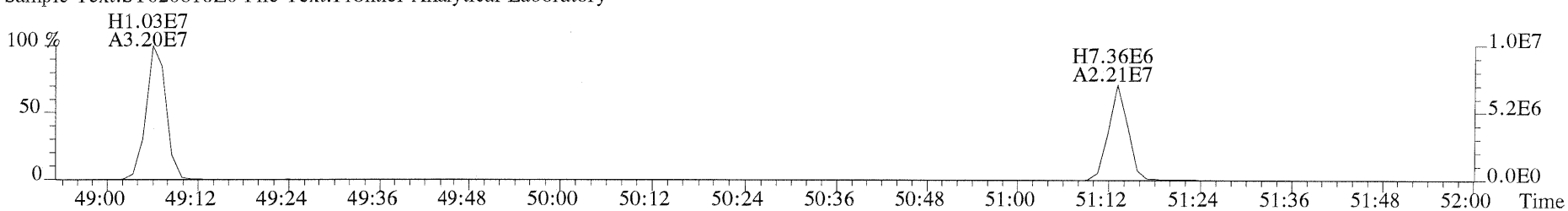
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



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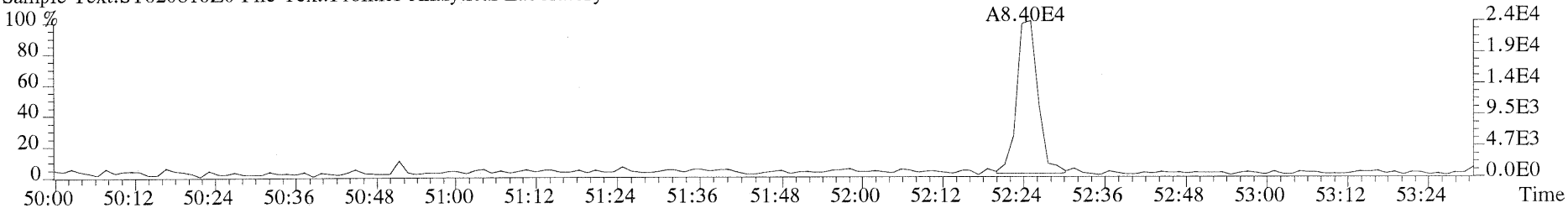
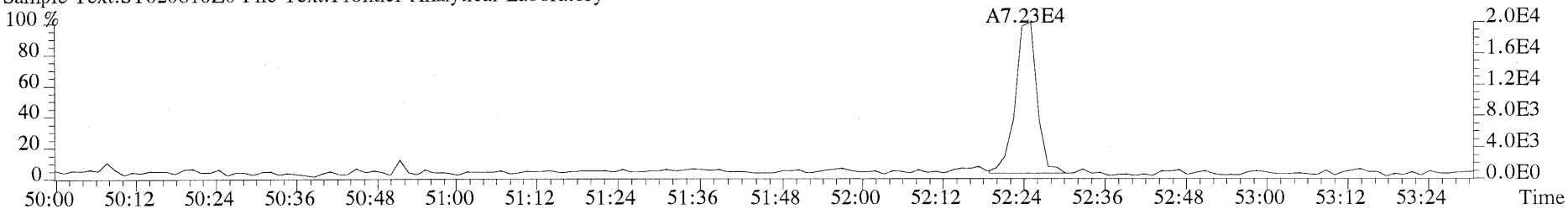
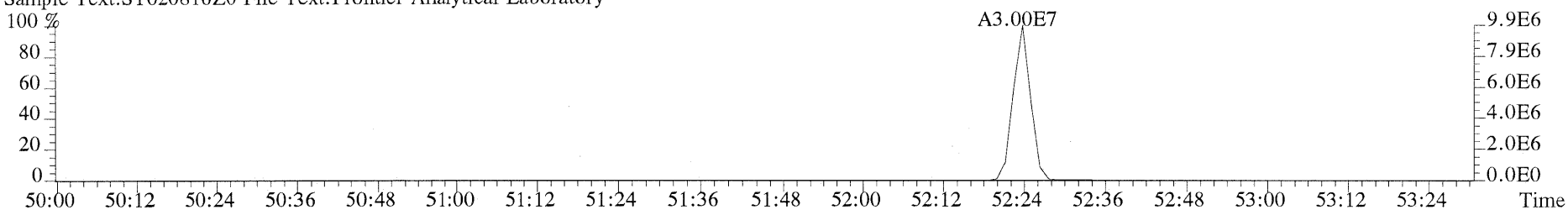
497.6826 S:2 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



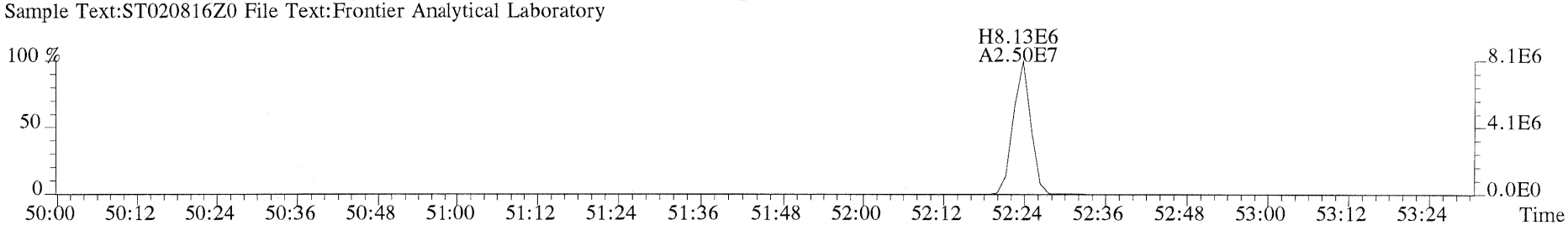
File:08FEB16Z #1-217 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



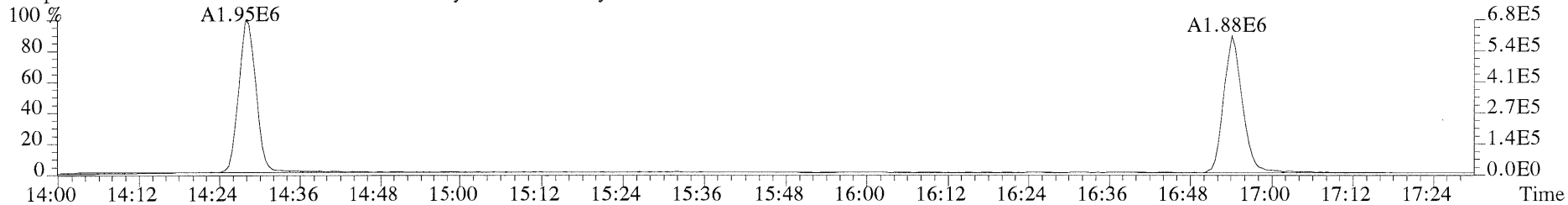
File:08FEB16Z #1-217 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



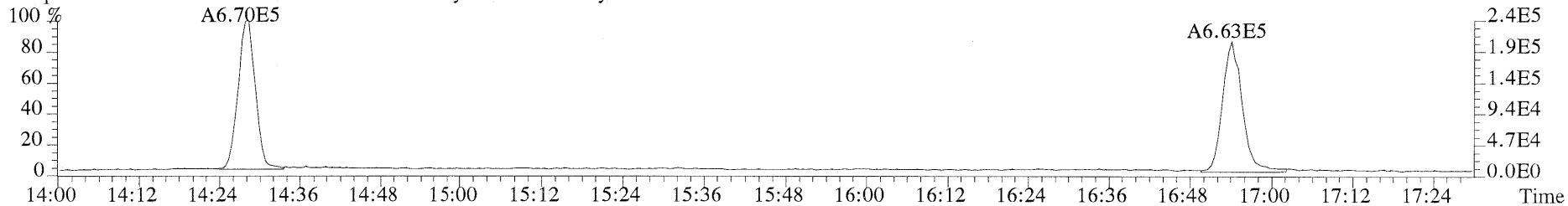
File:08FEB16Z #1-217 Acq: 8-FEB-2016 07:25:55 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z0 File Text:Frontier Analytical Laboratory



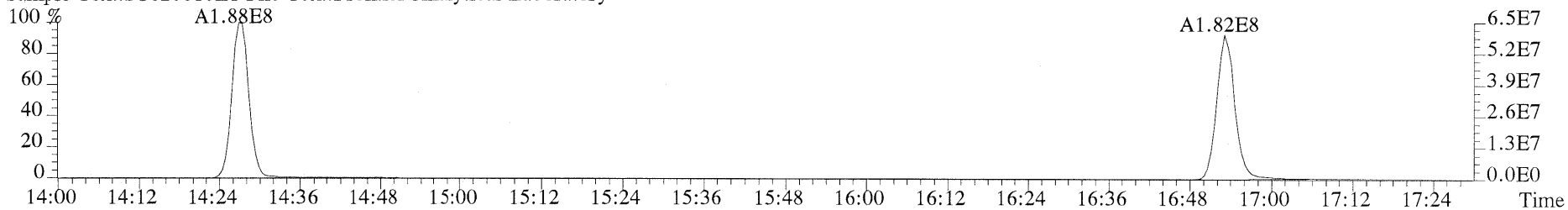
File:08FEB16Z #1-489 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



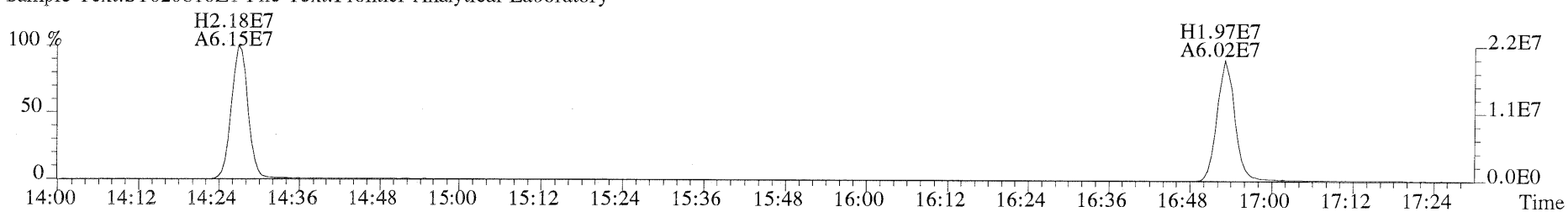
File:08FEB16Z #1-489 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



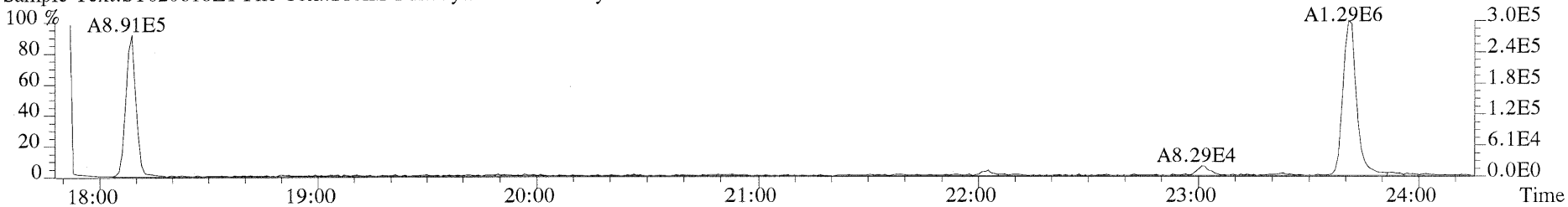
File:08FEB16Z #1-489 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



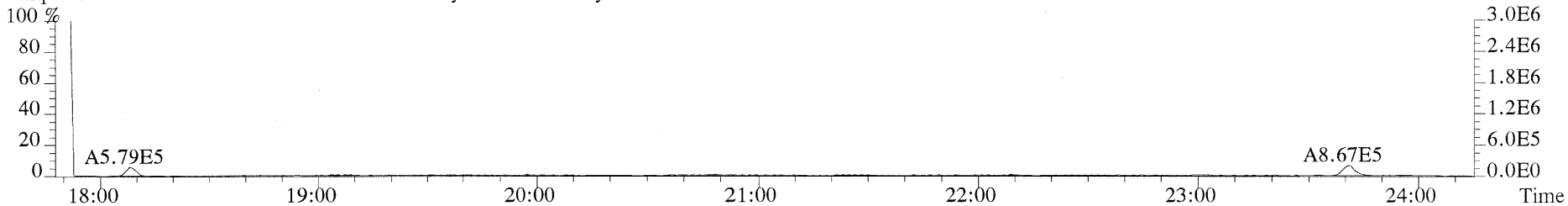
File:08FEB16Z #1-489 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



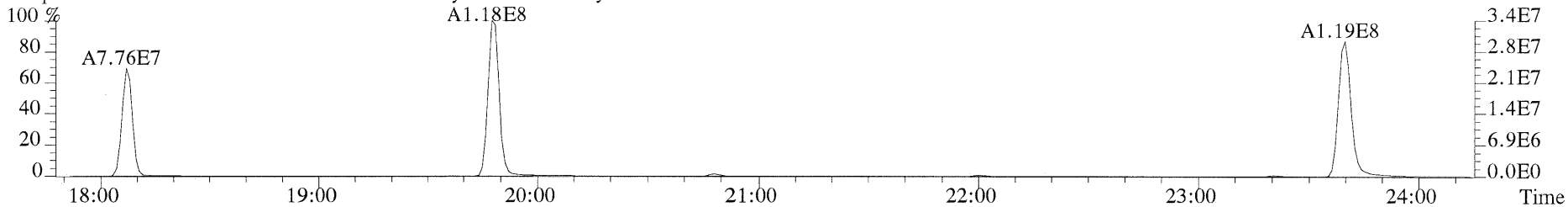
File:08FEB16Z #1-503 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



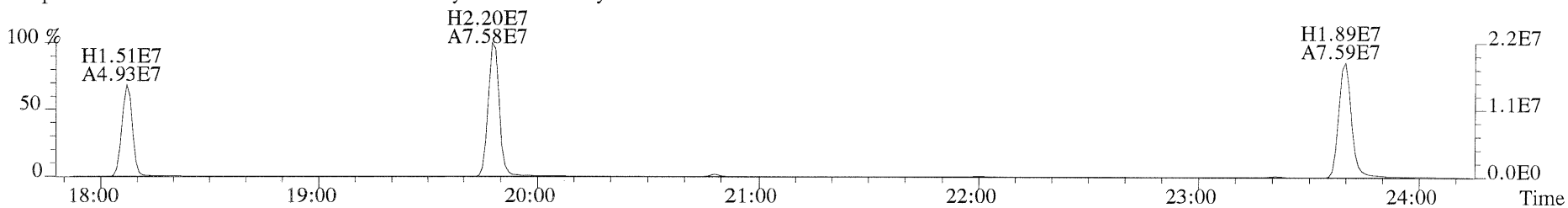
File:08FEB16Z #1-503 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



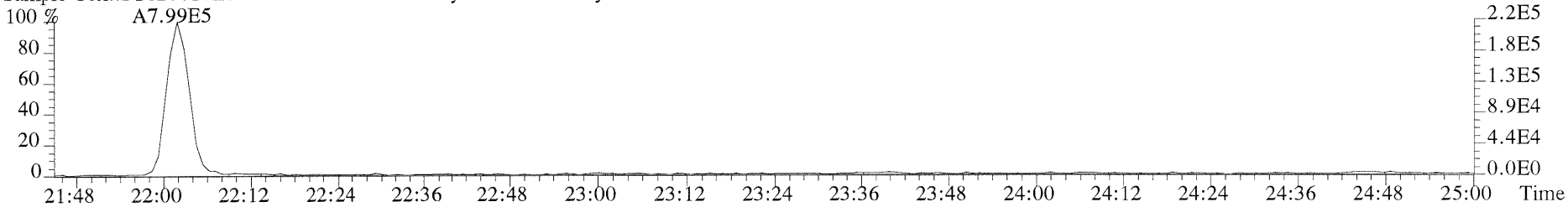
File:08FEB16Z #1-503 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



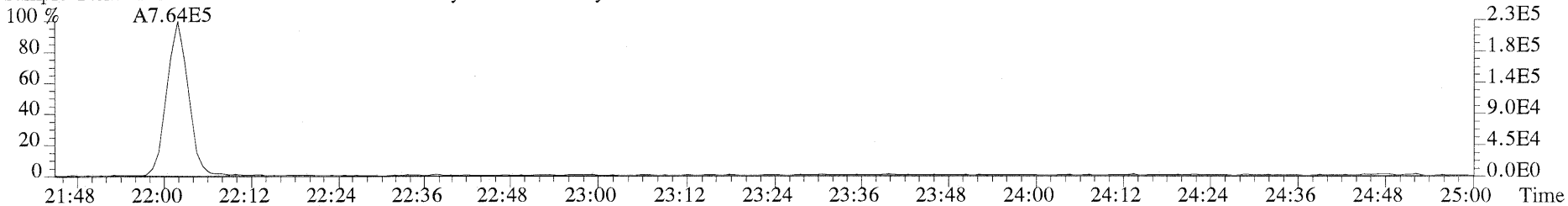
File:08FEB16Z #1-503 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



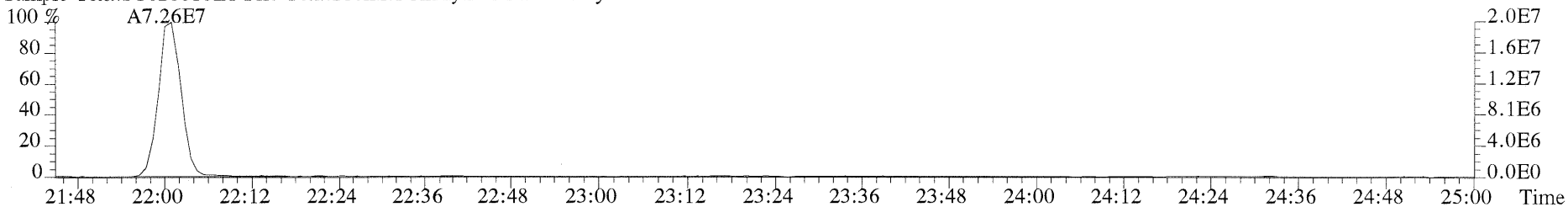
File:08FEB16Z #1-503 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



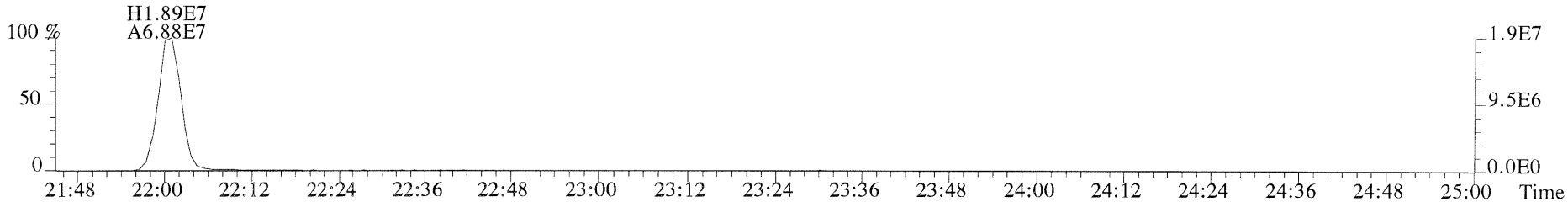
File:08FEB16Z #1-503 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



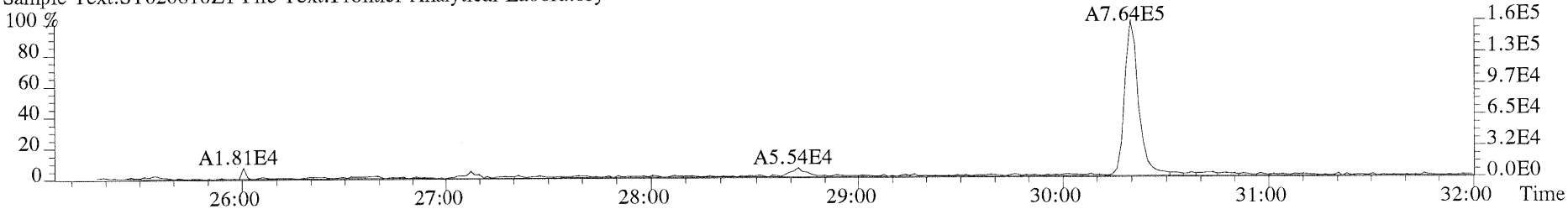
File:08FEB16Z #1-503 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



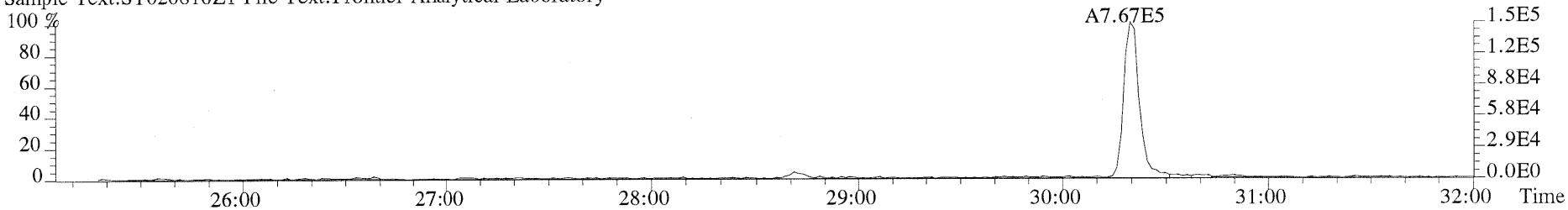
File:08FEB16Z #1-503 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



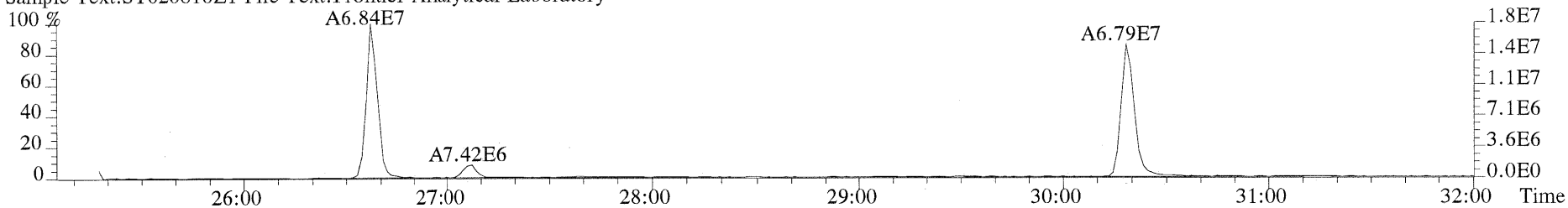
File:08FEB16Z #1-399 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



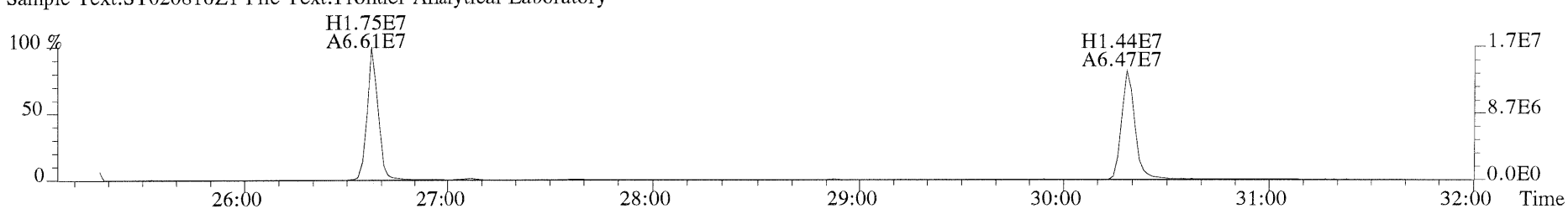
File:08FEB16Z #1-399 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



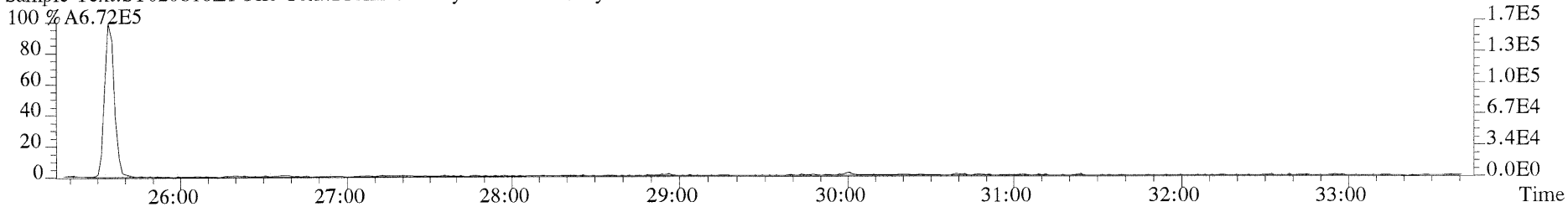
File:08FEB16Z #1-399 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



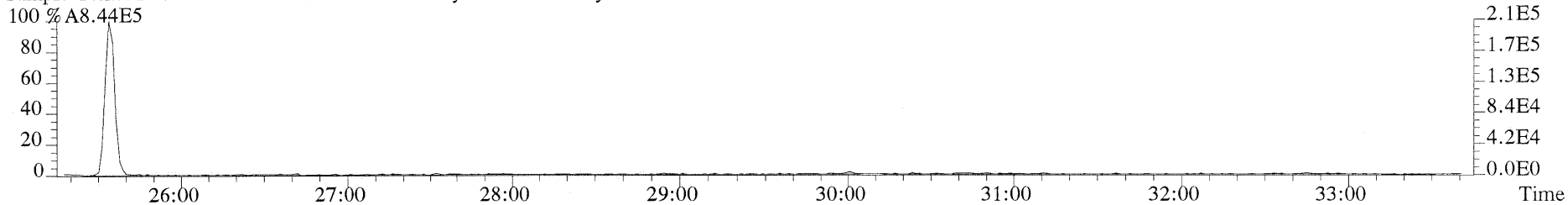
File:08FEB16Z #1-399 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



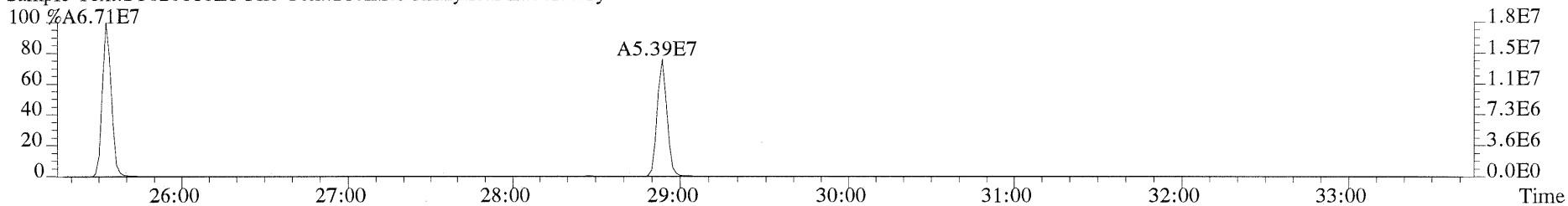
File:08FEB16Z #1-399 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



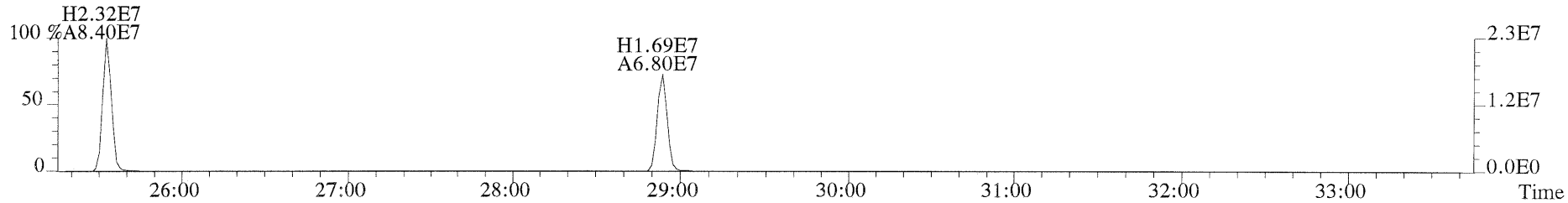
File:08FEB16Z #1-399 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



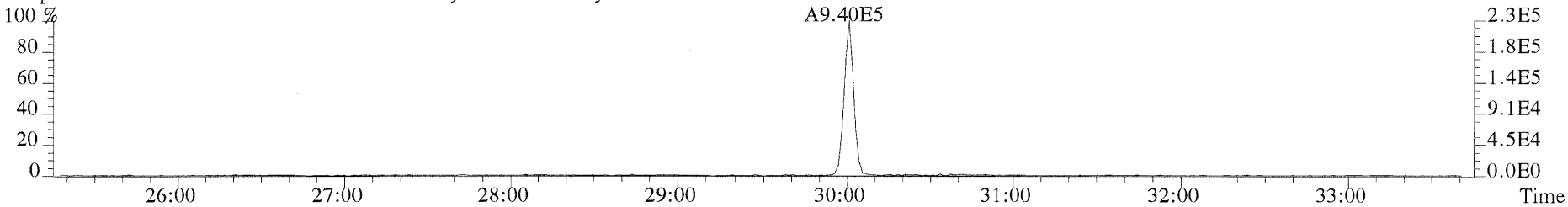
File:08FEB16Z #1-399 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



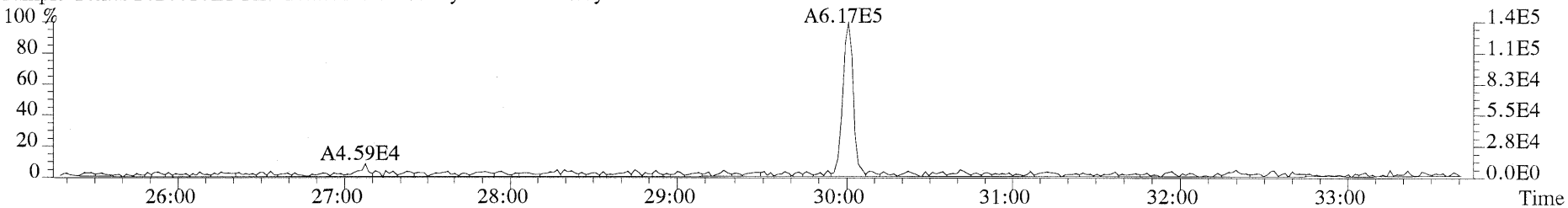
File:08FEB16Z #1-399 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



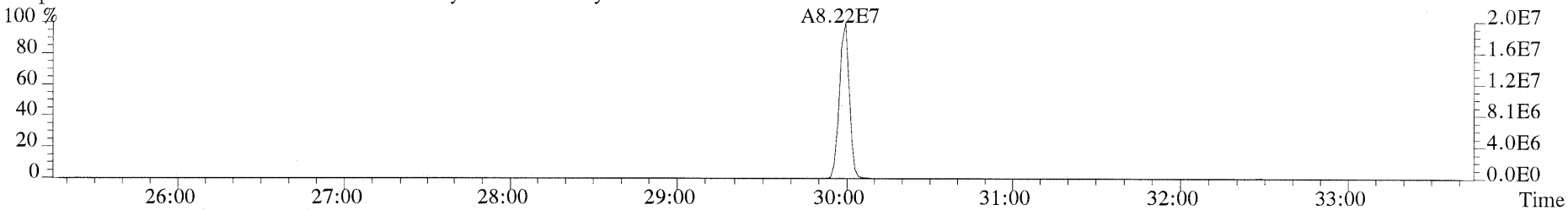
File:08FEB16Z #1-399 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



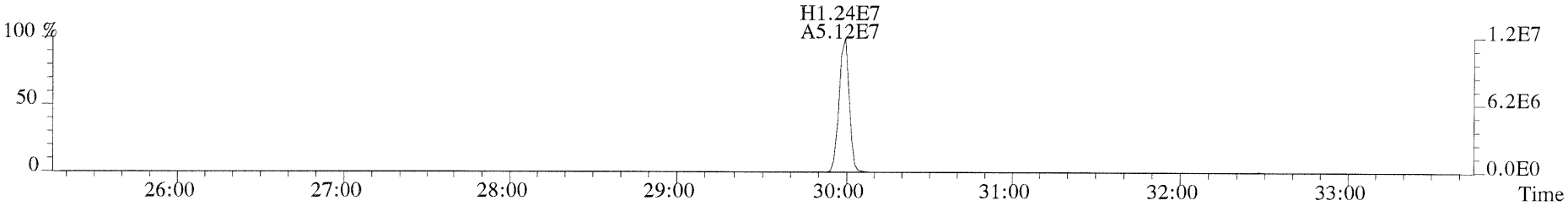
File:08FEB16Z #1-399 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



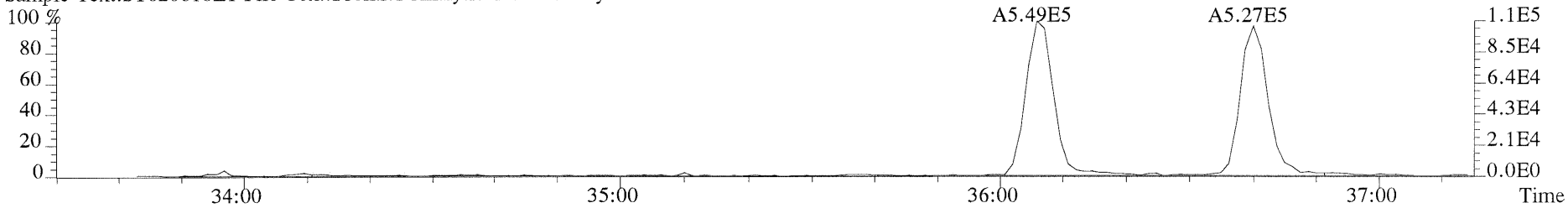
File:08FEB16Z #1-399 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



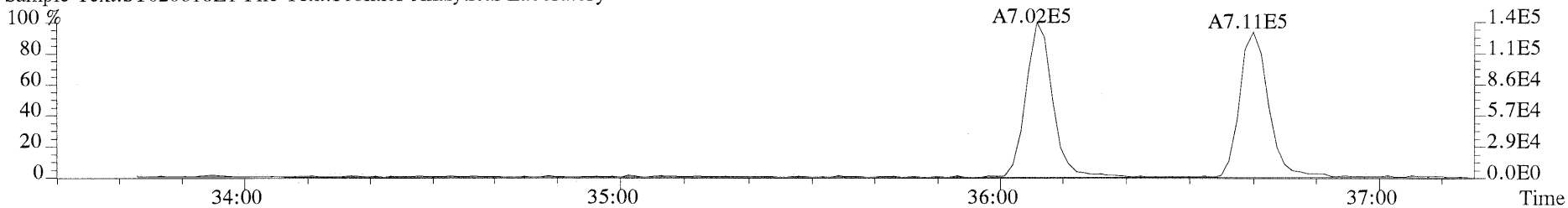
File:08FEB16Z #1-399 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



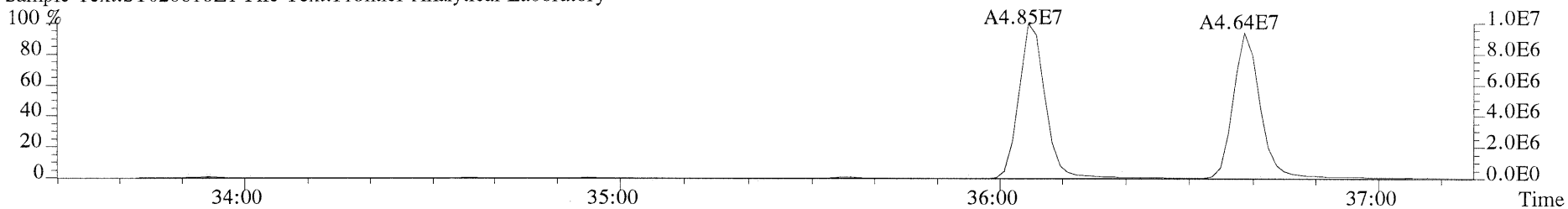
File:08FEB16Z #1-182 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



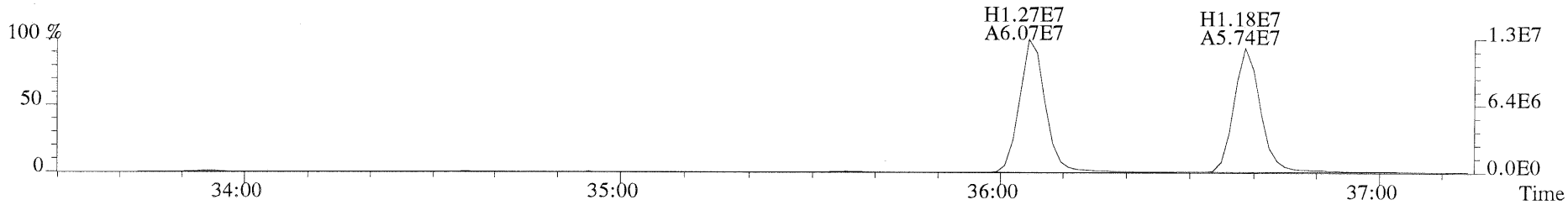
File:08FEB16Z #1-182 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



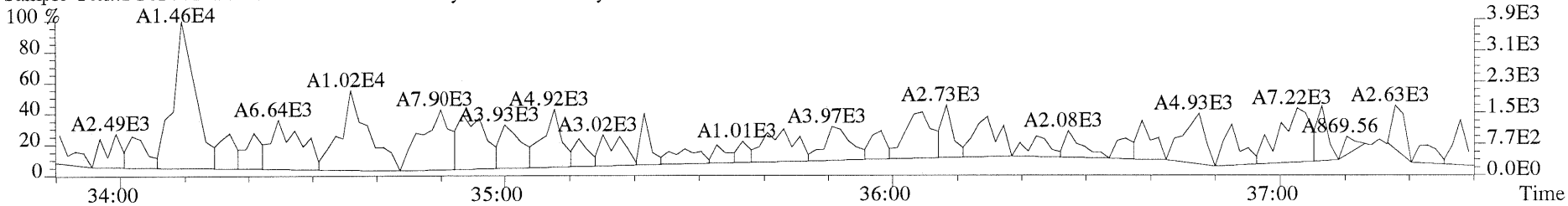
File:08FEB16Z #1-182 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



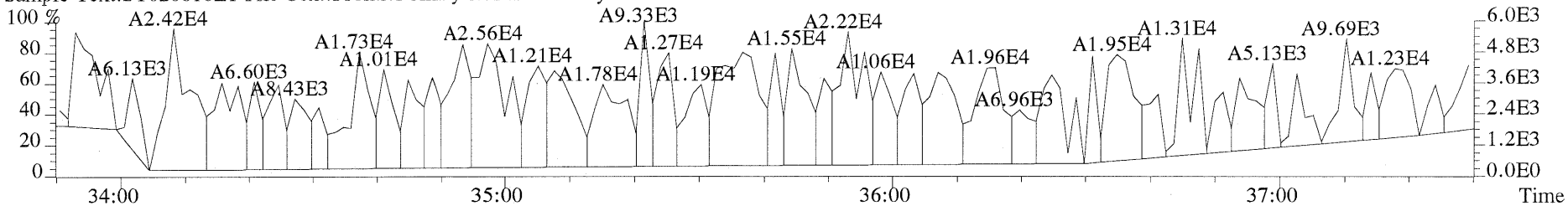
File:08FEB16Z #1-182 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 08:25:50 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:ST020816Z1 File Text:Frontier Analytical Laboratory



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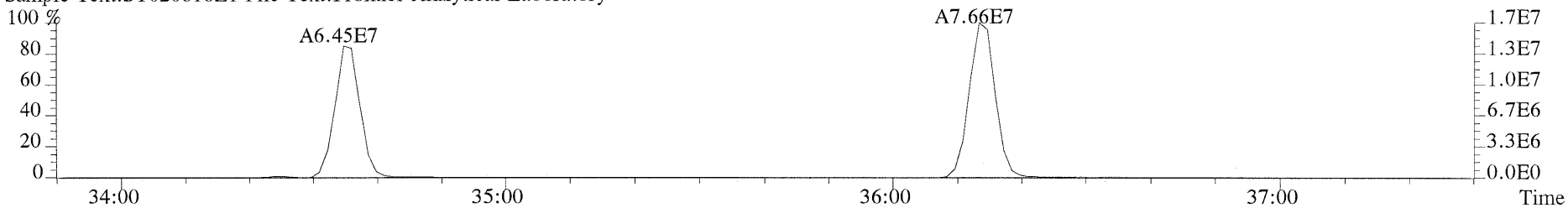
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



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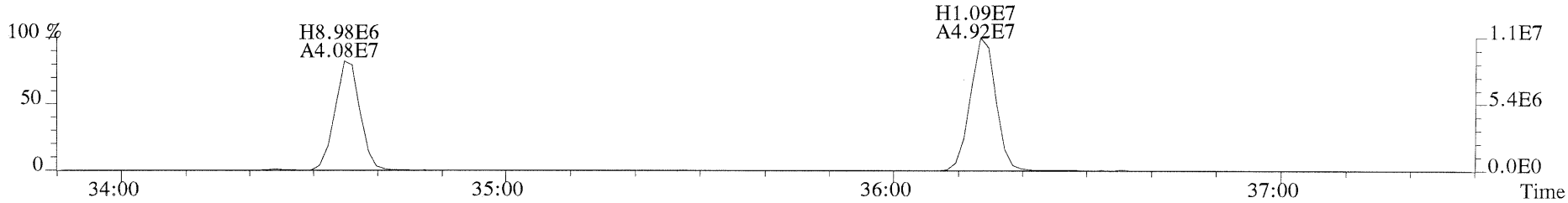
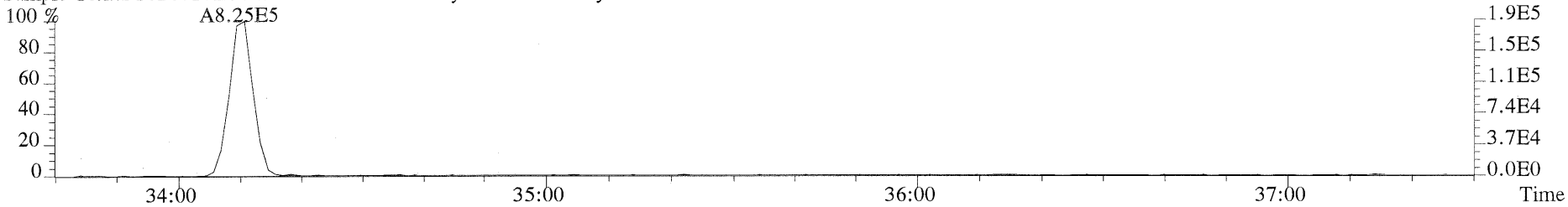
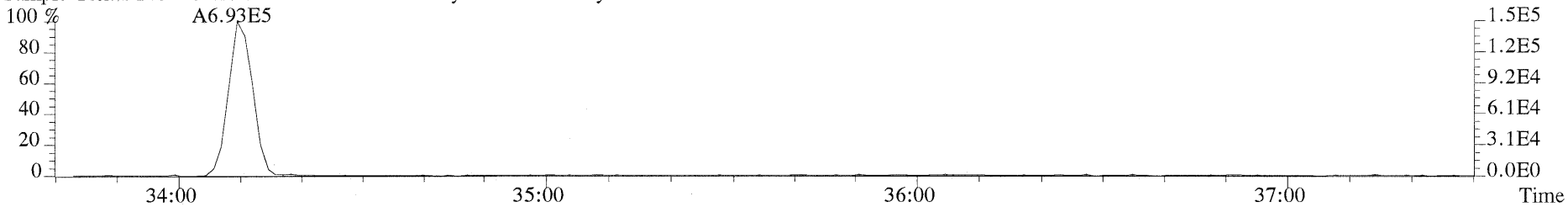
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



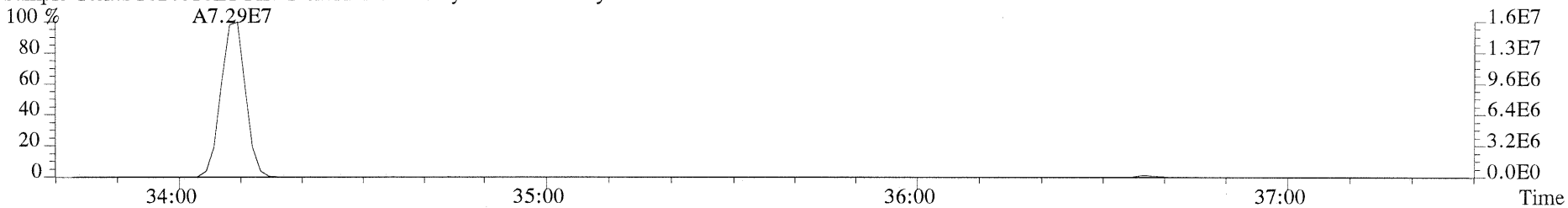
File:08FEB16Z #1-182 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



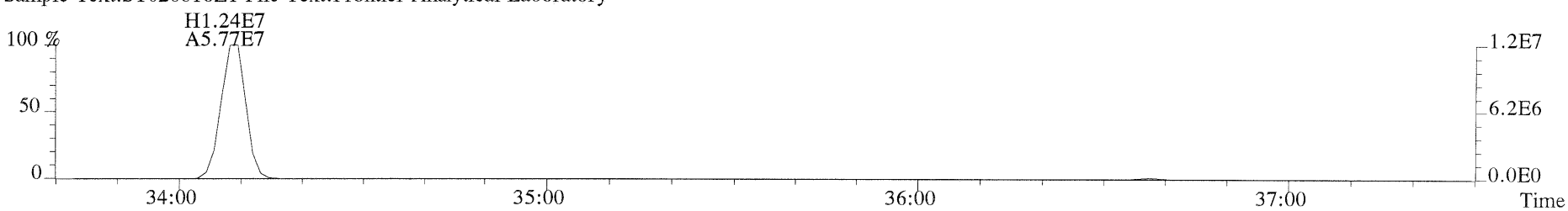
File:08FEB16Z #1-182 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



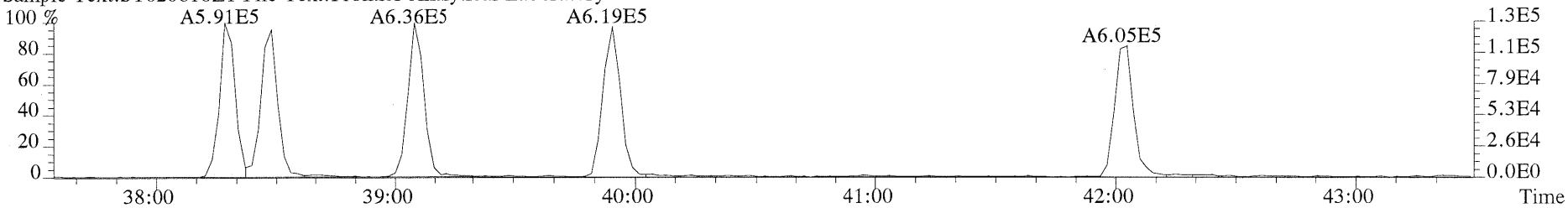
File:08FEB16Z #1-182 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



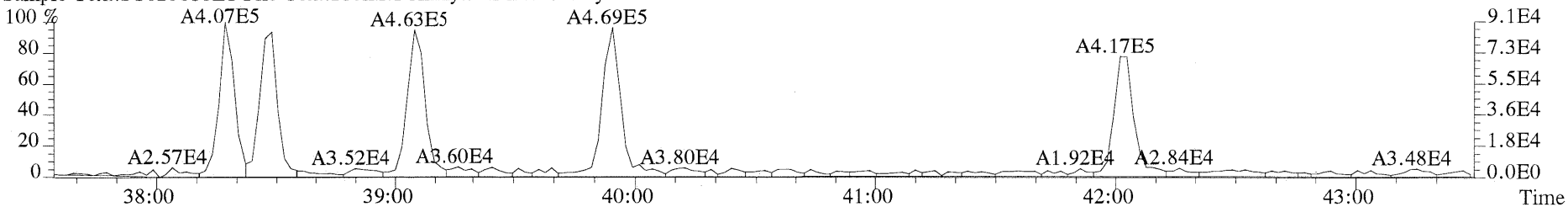
File:08FEB16Z #1-182 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



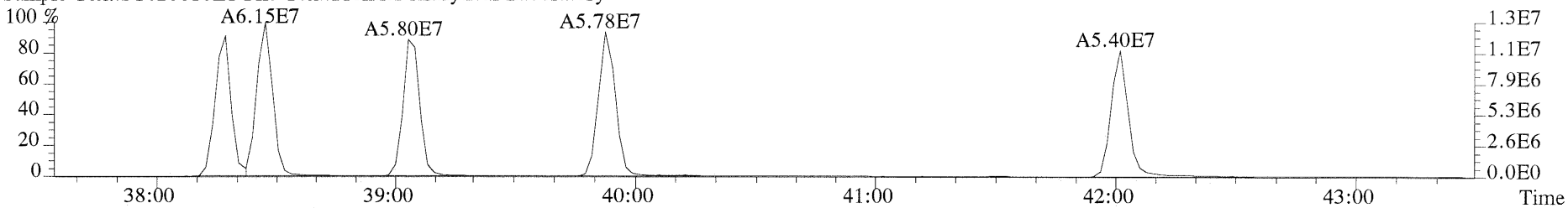
File:08FEB16Z #1-412 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



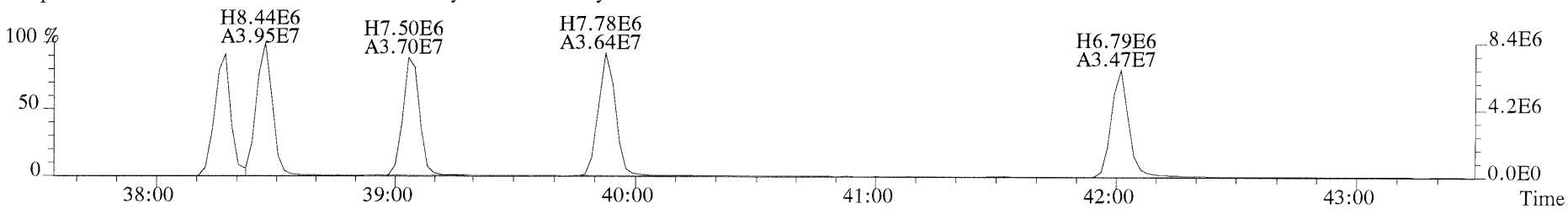
File:08FEB16Z #1-412 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



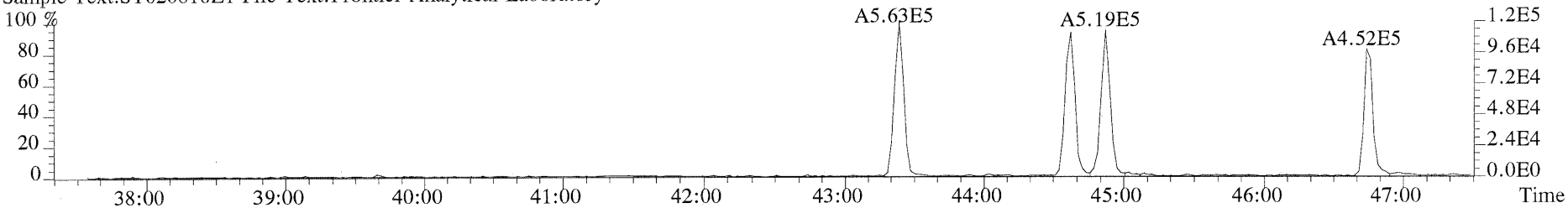
File:08FEB16Z #1-412 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



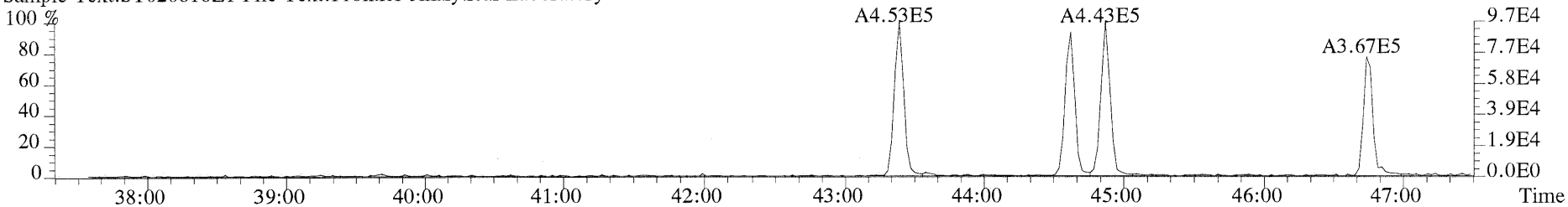
File:08FEB16Z #1-412 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



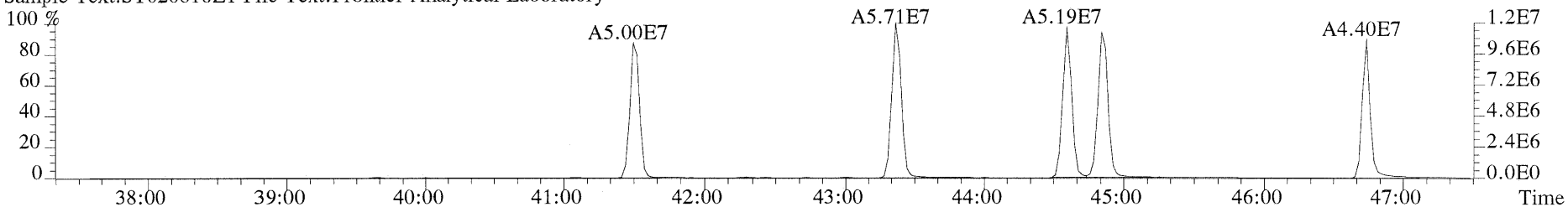
File:08FEB16Z #1-412 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



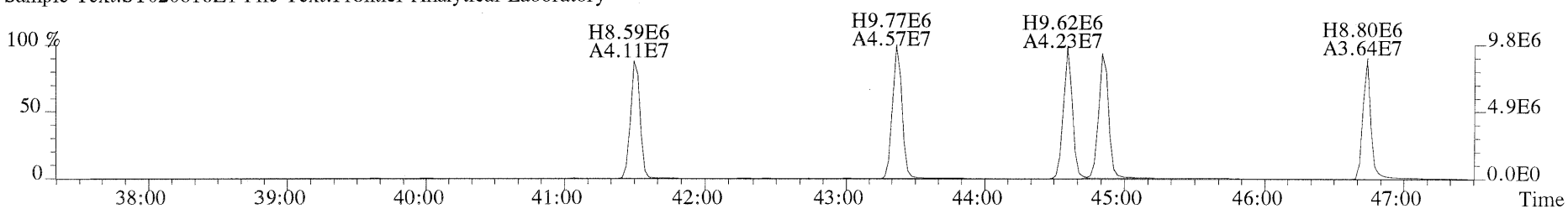
File:08FEB16Z #1-412 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-412 Acq: 8-FEB-2016 08:25:50 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:ST020816Z1 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-412 Acq: 8-FEB-2016 08:25:50 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:ST020816Z1 File Text:Frontier Analytical Laboratory



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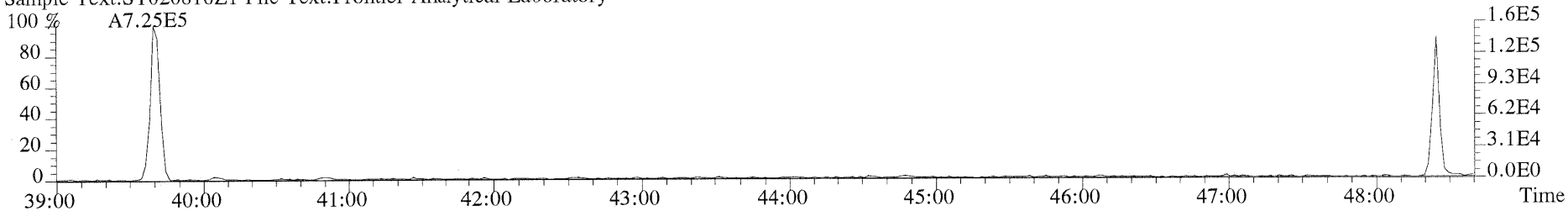
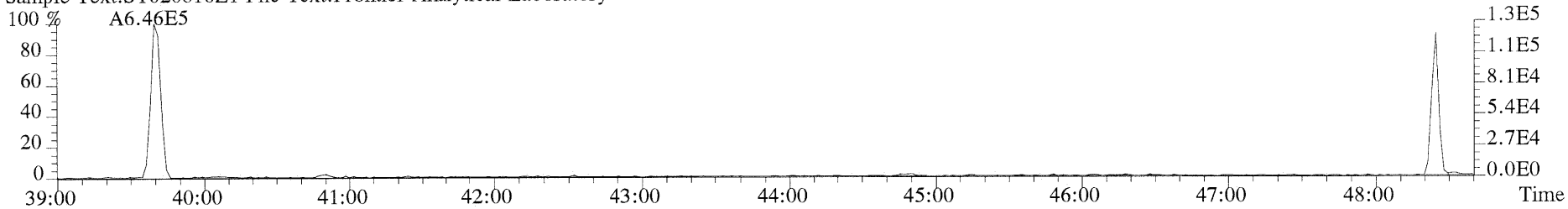
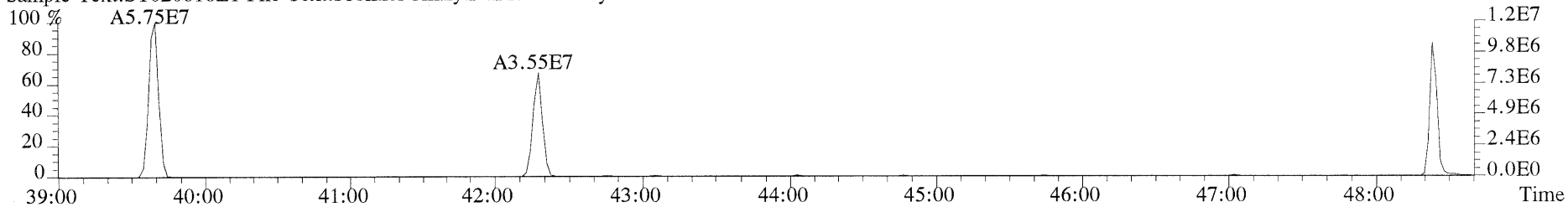
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



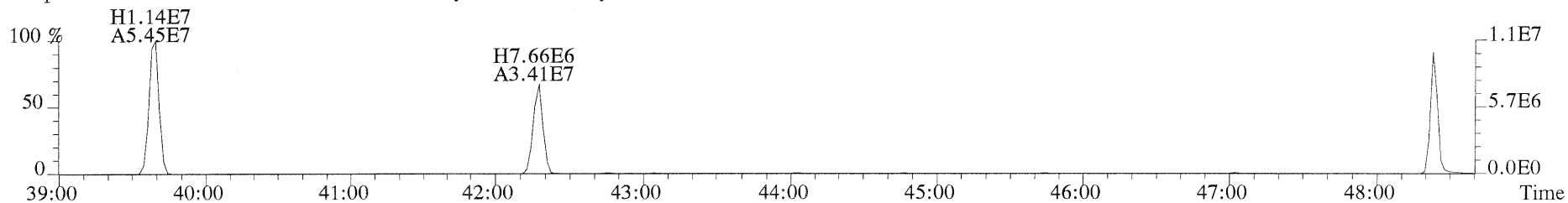
File:08FEB16Z #1-412 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



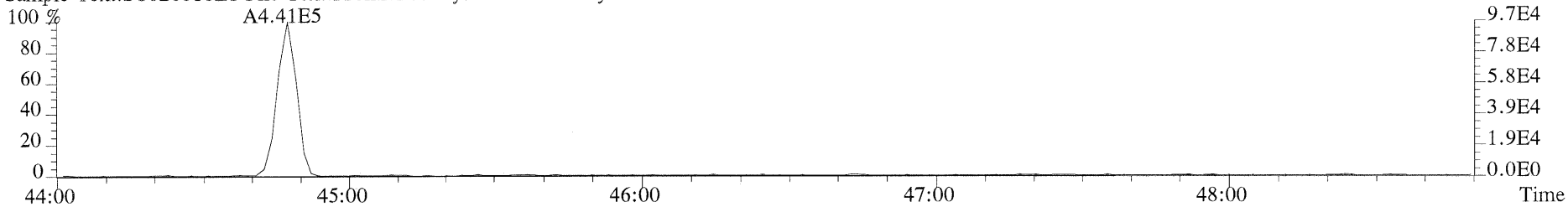
File:08FEB16Z #1-412 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



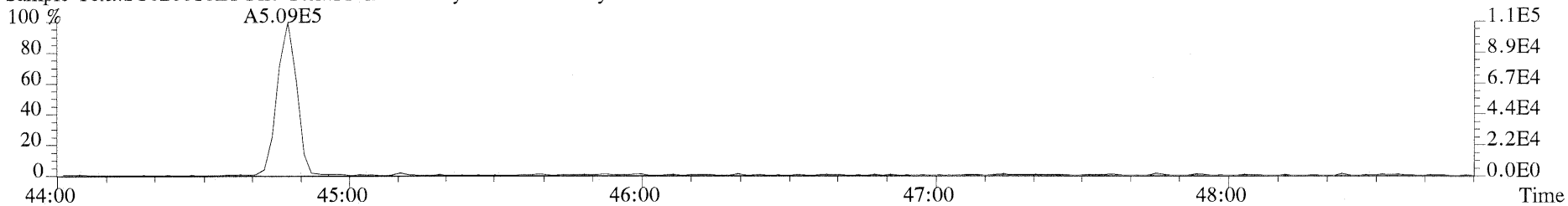
File:08FEB16Z #1-412 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



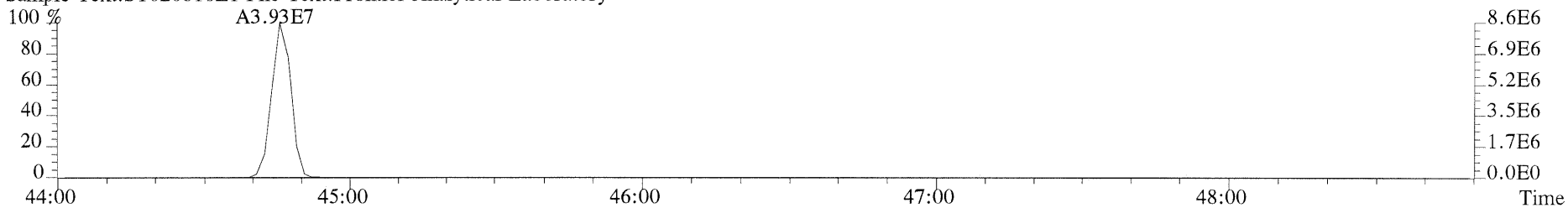
File:08FEB16Z #1-412 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



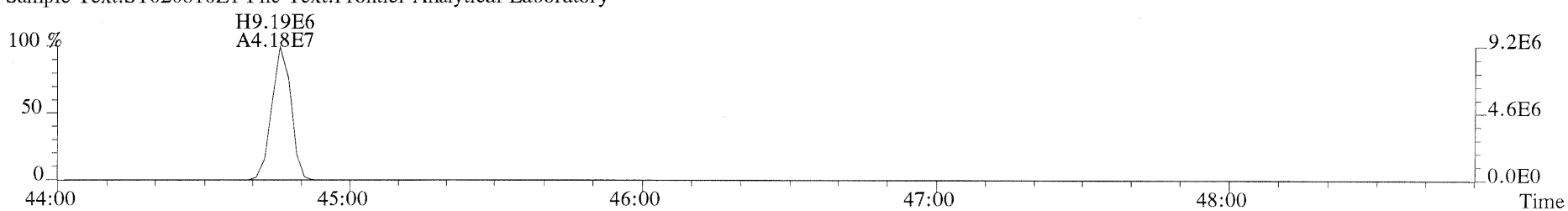
File:08FEB16Z #1-412 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



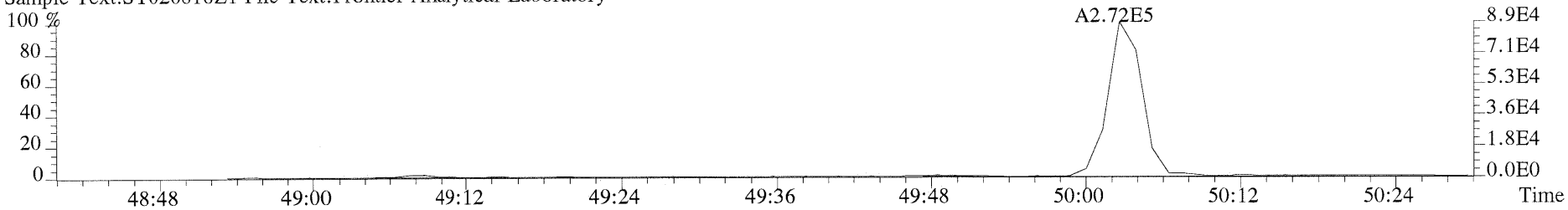
File:08FEB16Z #1-412 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



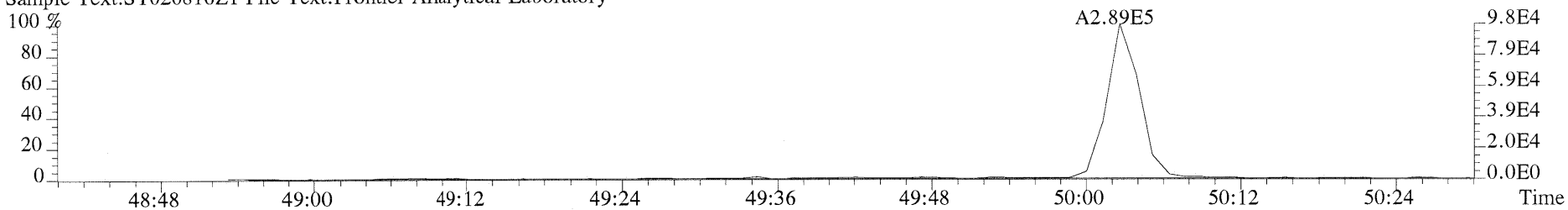
File:08FEB16Z #1-412 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



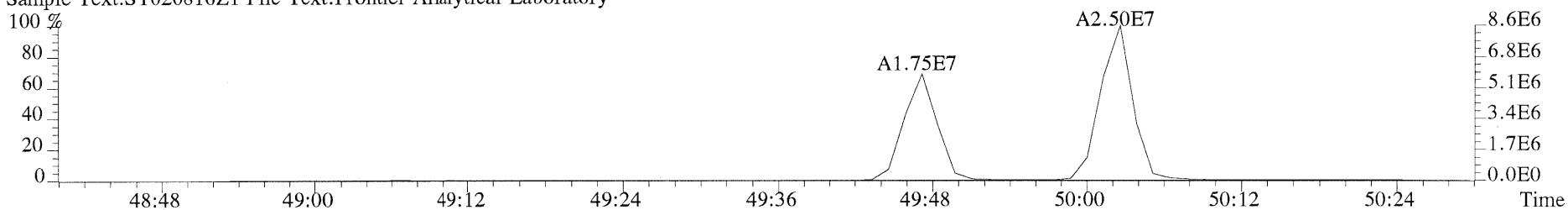
File:08FEB16Z #1-217 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



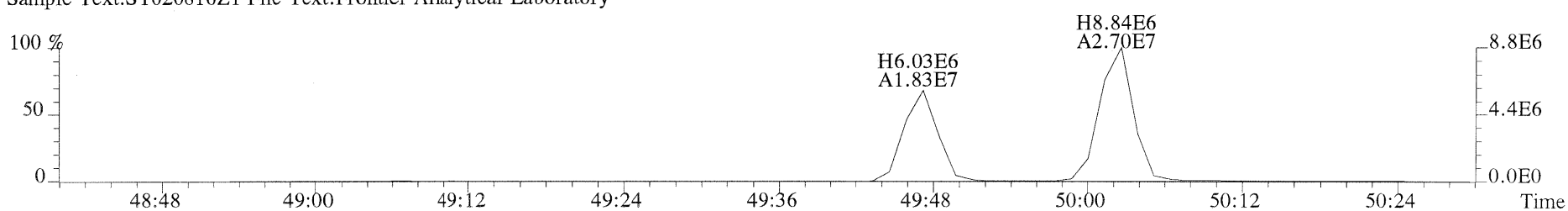
File:08FEB16Z #1-217 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



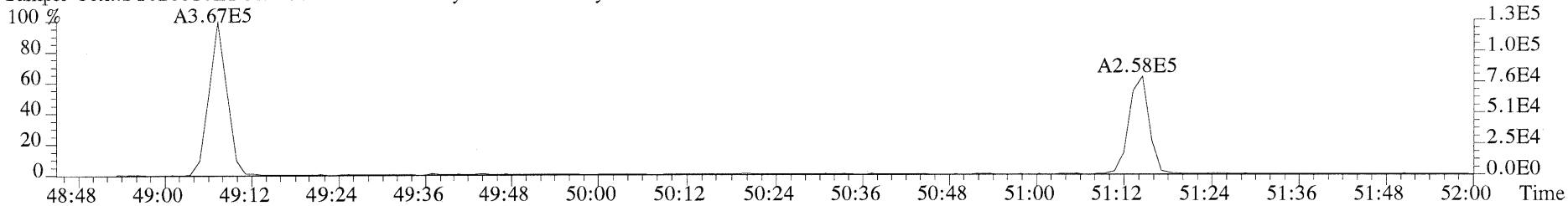
File:08FEB16Z #1-217 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



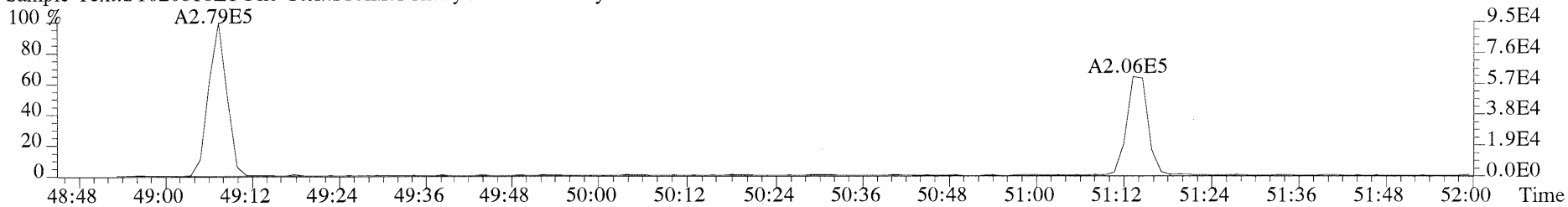
File:08FEB16Z #1-217 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



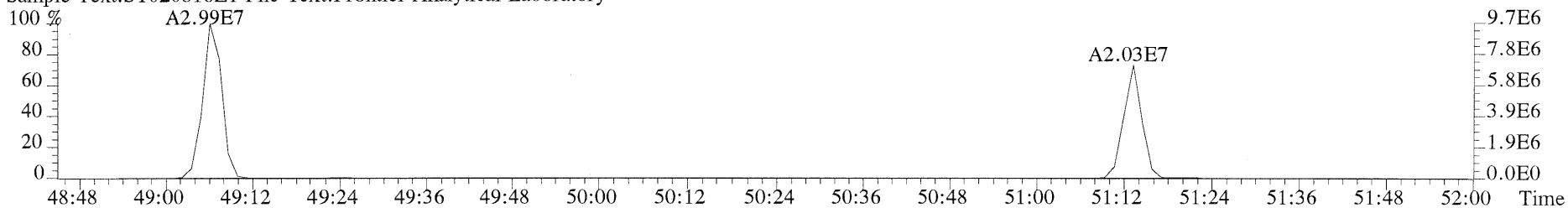
File:08FEB16Z #1-217 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



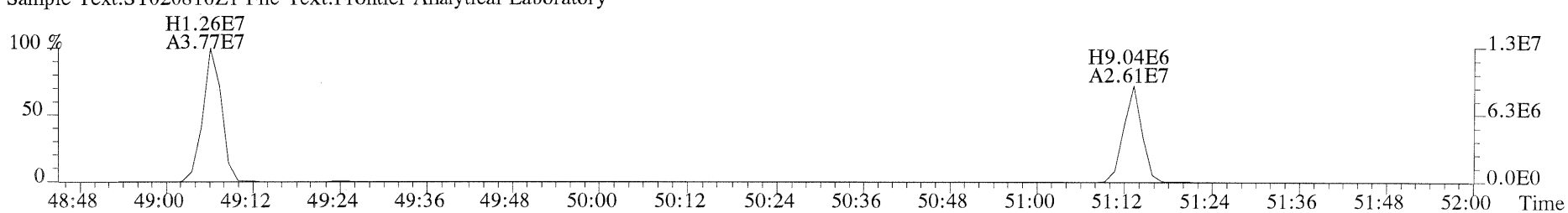
File:08FEB16Z #1-217 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



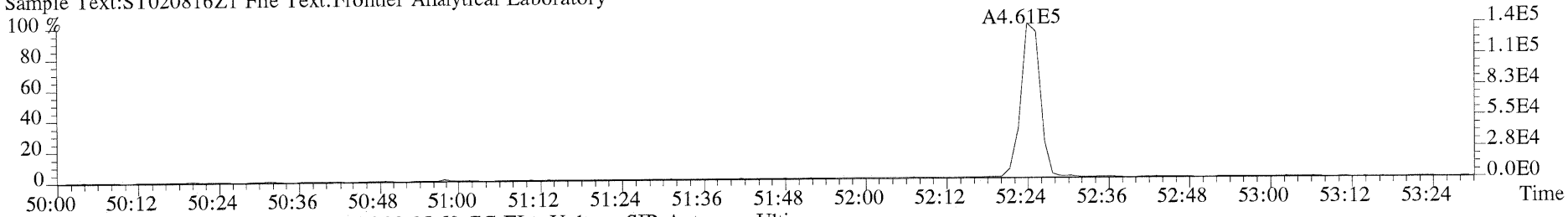
File:08FEB16Z #1-217 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



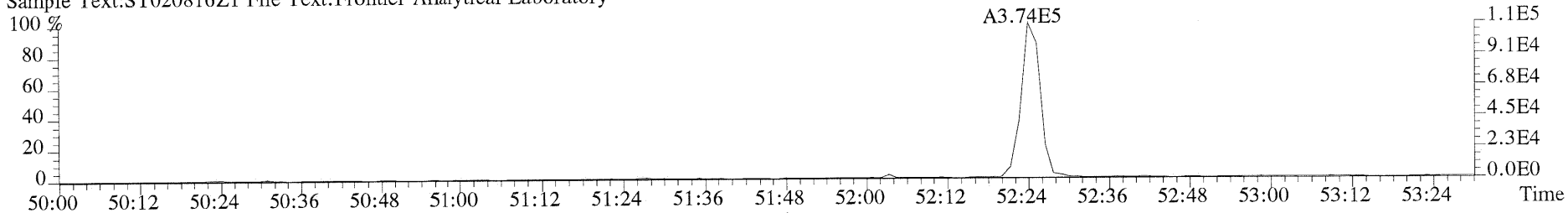
File:08FEB16Z #1-217 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



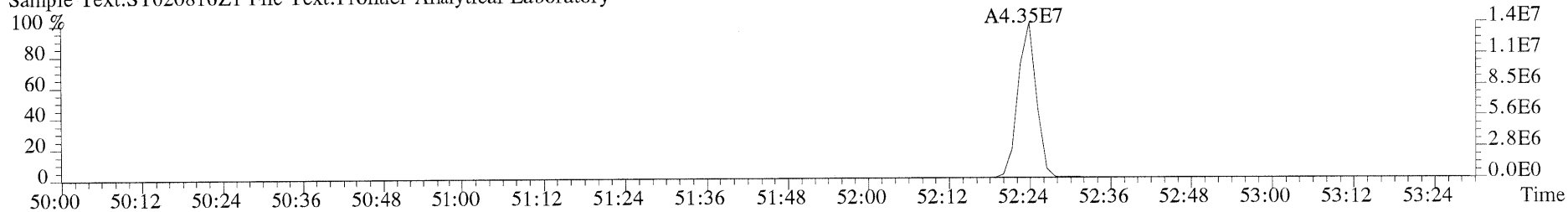
File:08FEB16Z #1-217 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



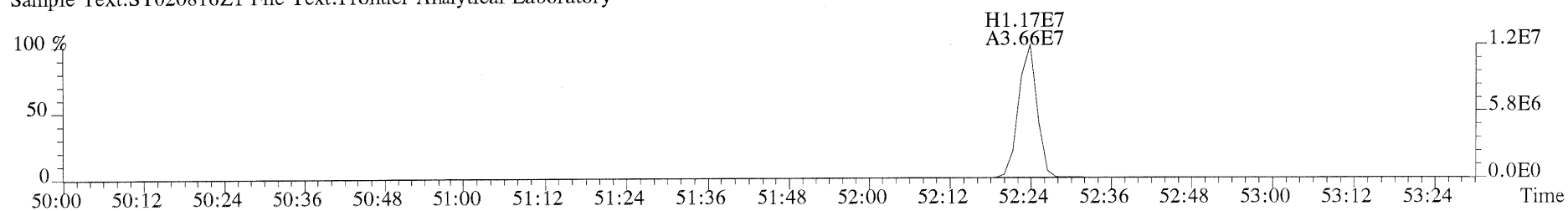
File:08FEB16Z #1-217 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



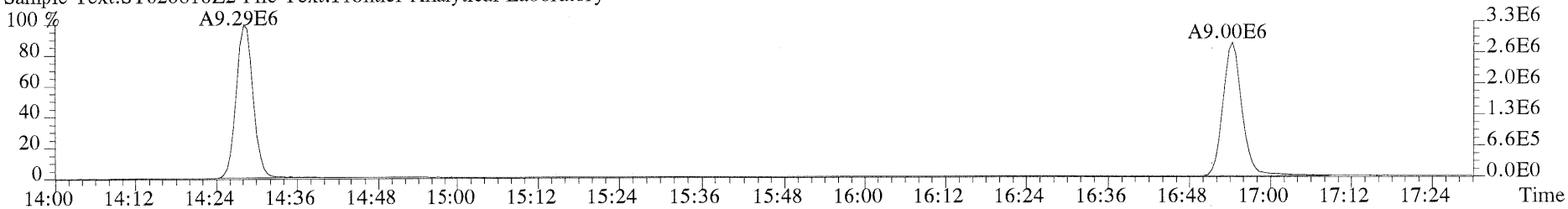
File:08FEB16Z #1-217 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



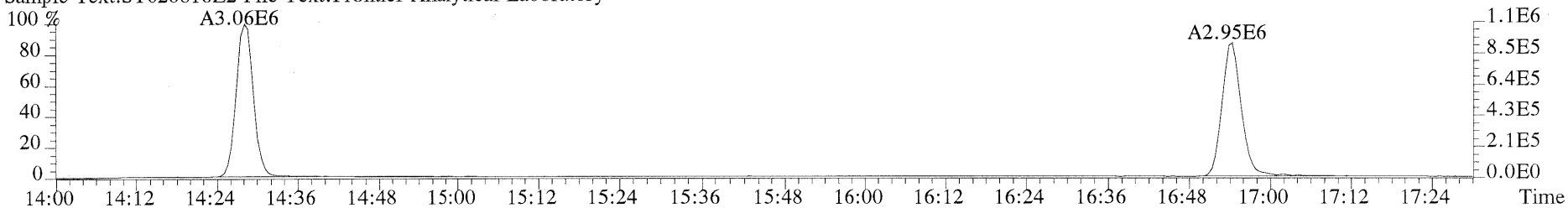
File:08FEB16Z #1-217 Acq: 8-FEB-2016 08:25:50 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z1 File Text:Frontier Analytical Laboratory



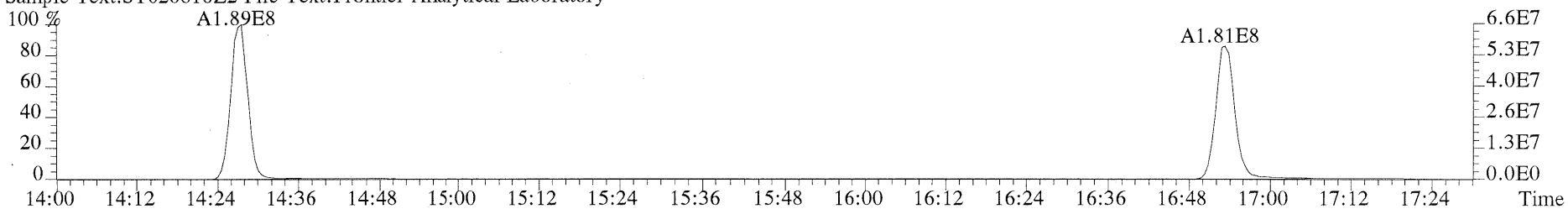
File:08FEB16Z #1-490 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



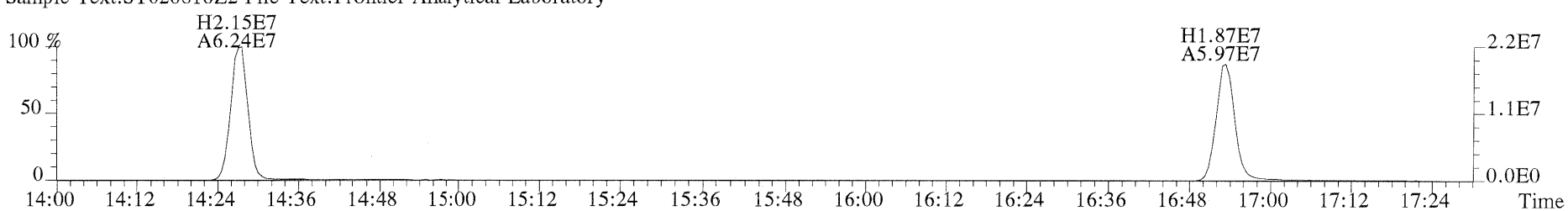
File:08FEB16Z #1-490 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



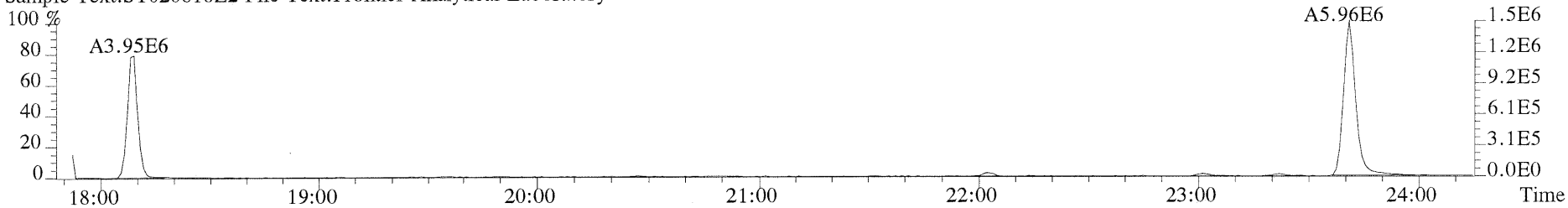
File:08FEB16Z #1-490 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



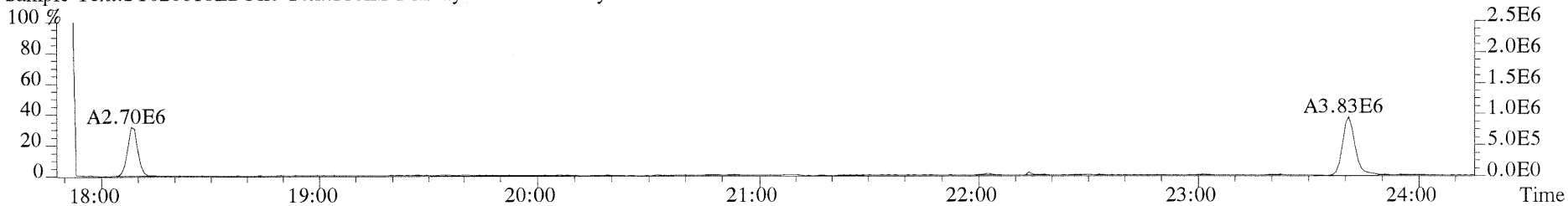
File:08FEB16Z #1-490 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



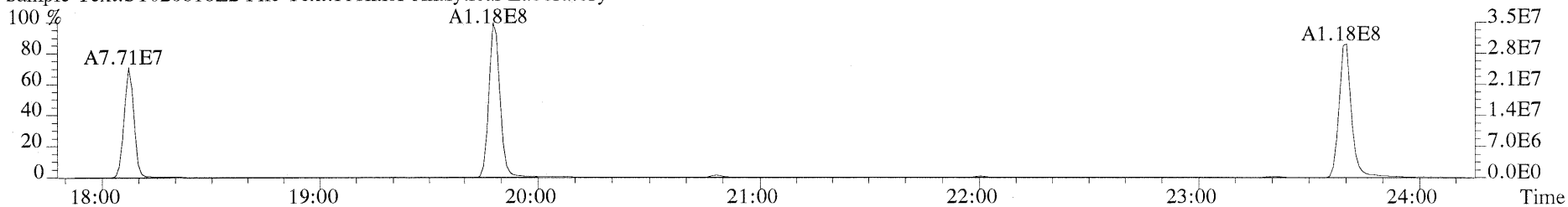
File:08FEB16Z #1-503 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



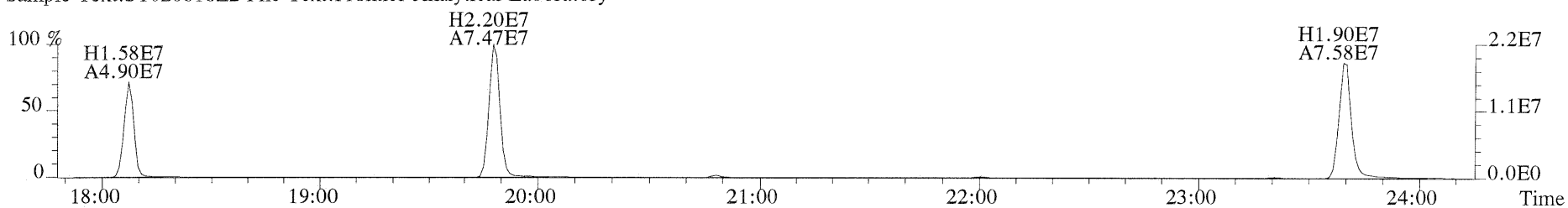
File:08FEB16Z #1-503 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



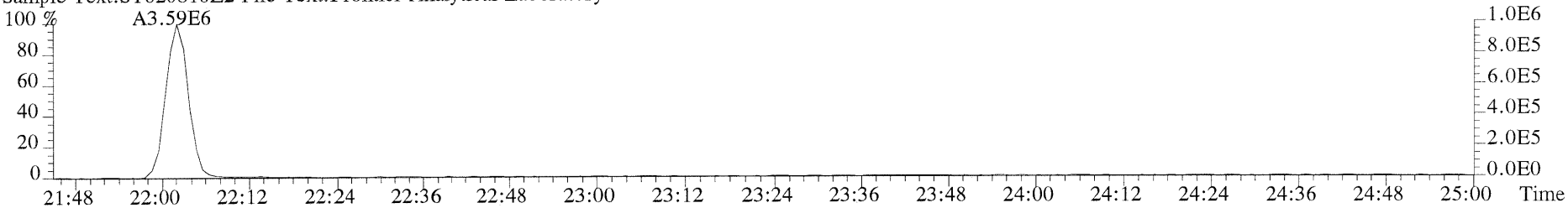
File:08FEB16Z #1-503 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



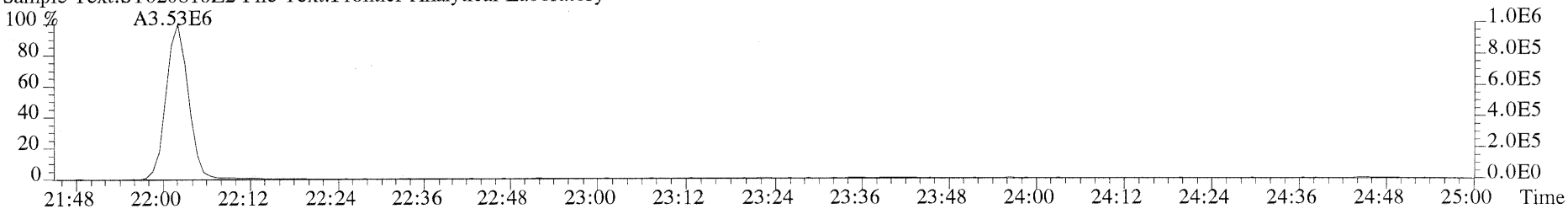
File:08FEB16Z #1-503 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



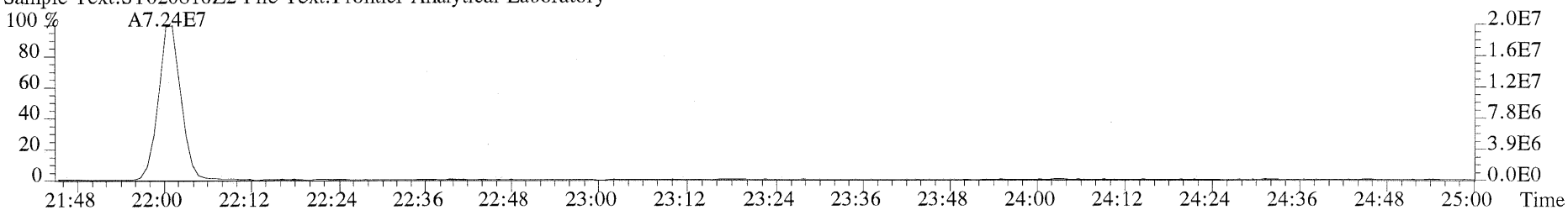
File:08FEB16Z #1-503 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



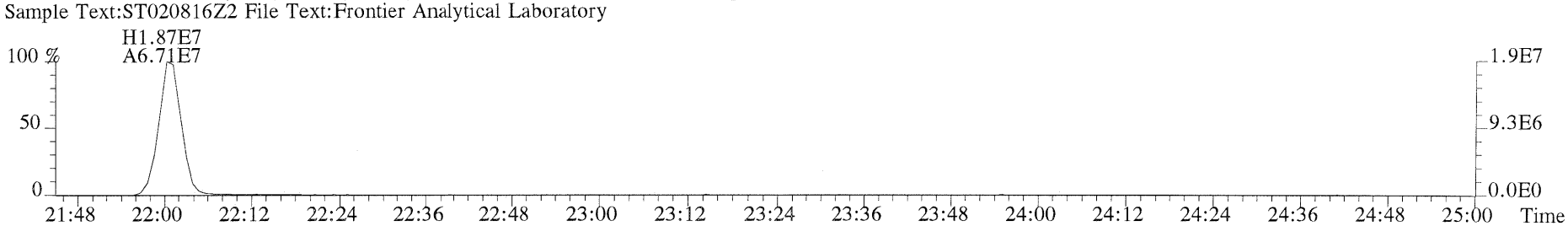
File:08FEB16Z #1-503 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



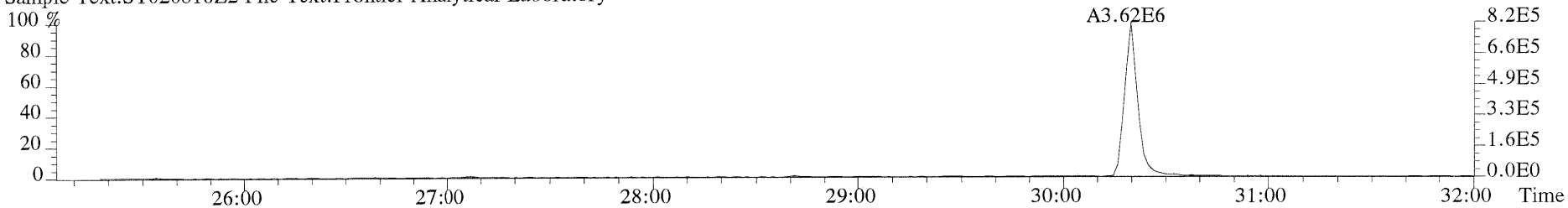
File:08FEB16Z #1-503 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



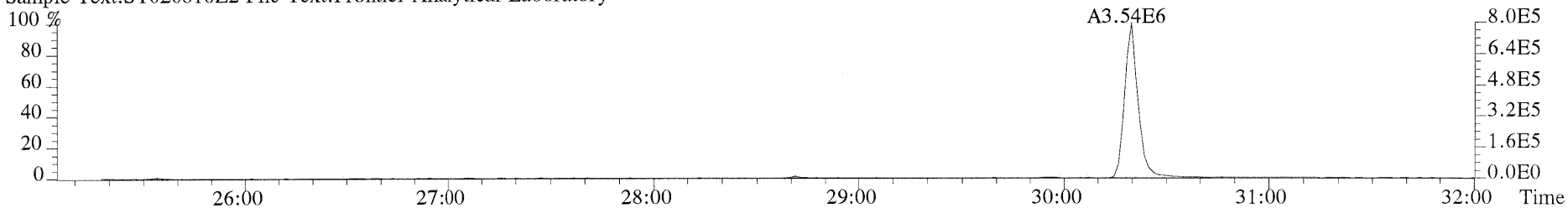
File:08FEB16Z #1-503 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



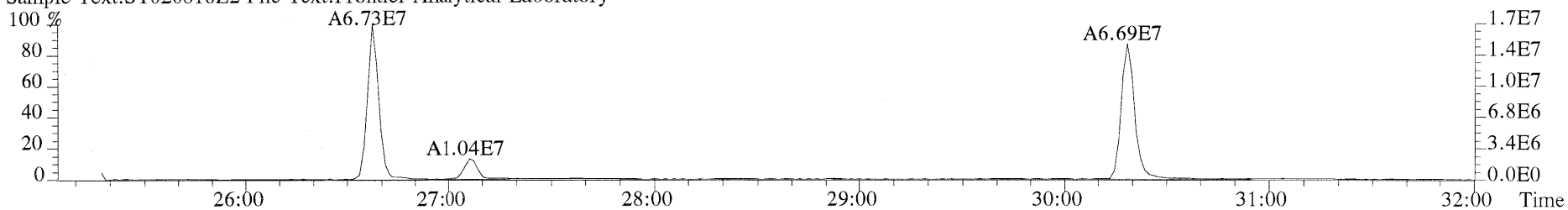
File:08FEB16Z #1-399 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



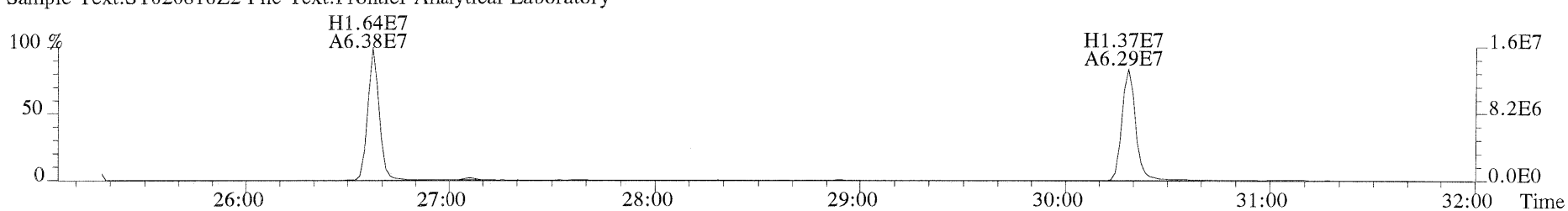
File:08FEB16Z #1-399 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



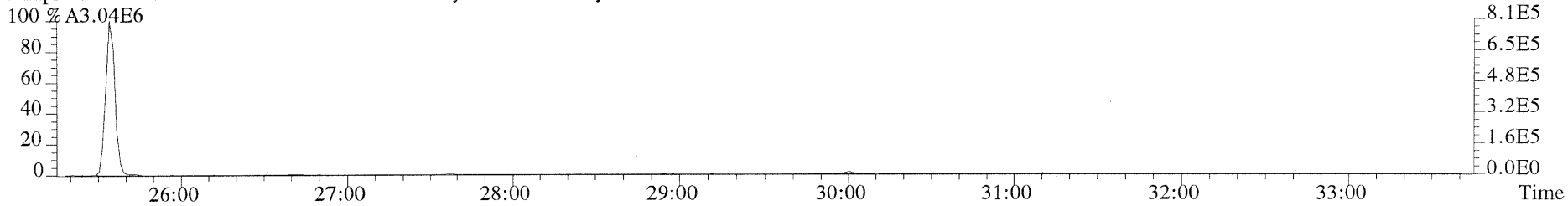
File:08FEB16Z #1-399 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



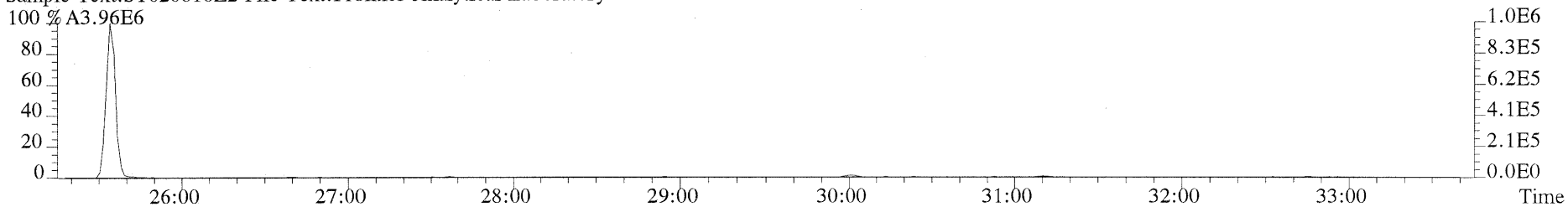
File:08FEB16Z #1-399 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



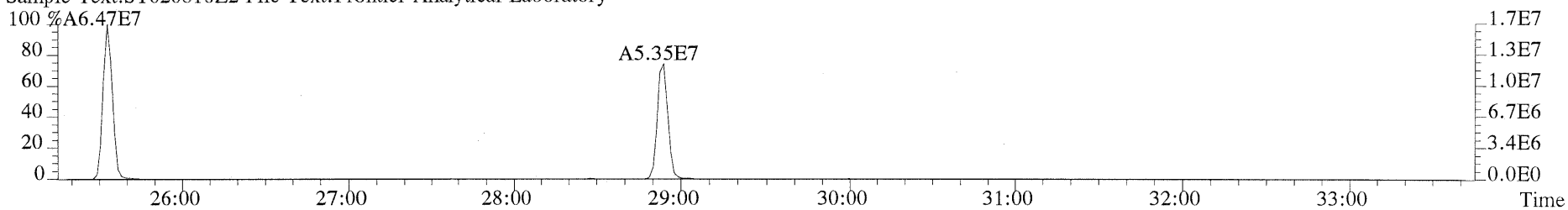
File:08FEB16Z #1-399 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



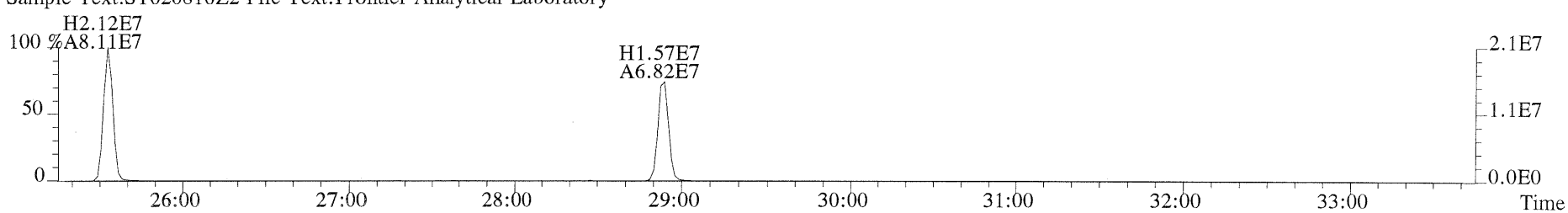
File:08FEB16Z #1-399 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



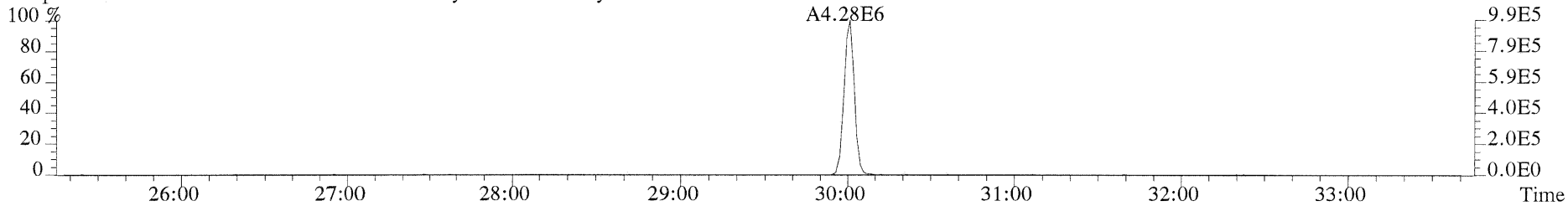
File:08FEB16Z #1-399 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



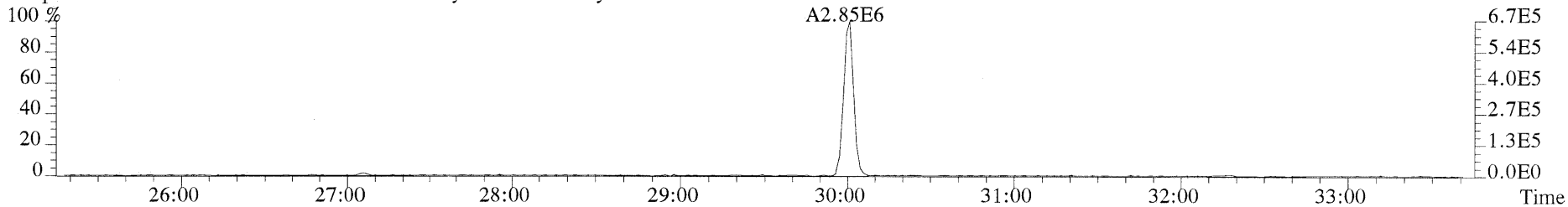
File:08FEB16Z #1-399 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



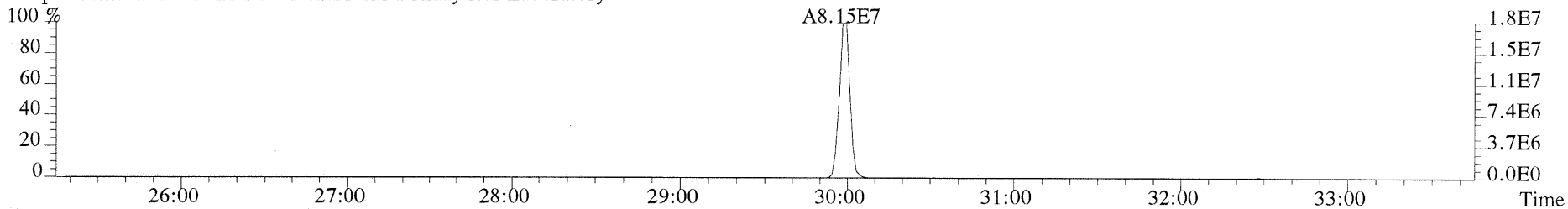
File:08FEB16Z #1-399 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



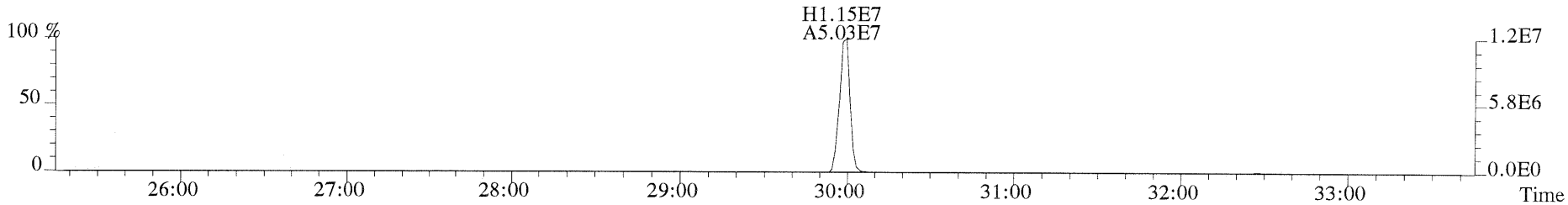
File:08FEB16Z #1-399 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



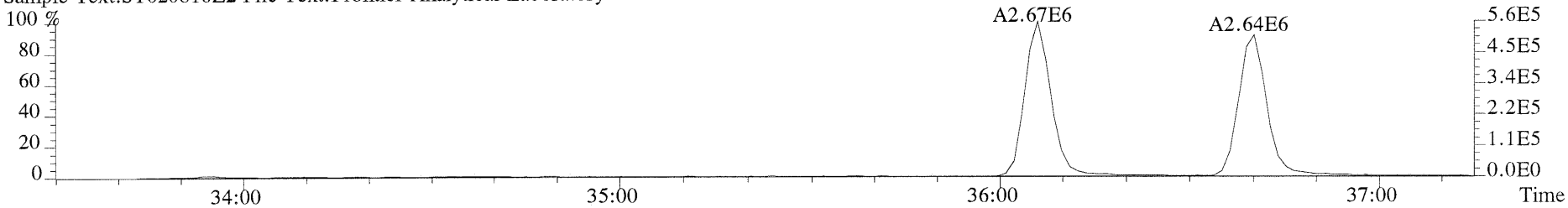
File:08FEB16Z #1-399 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



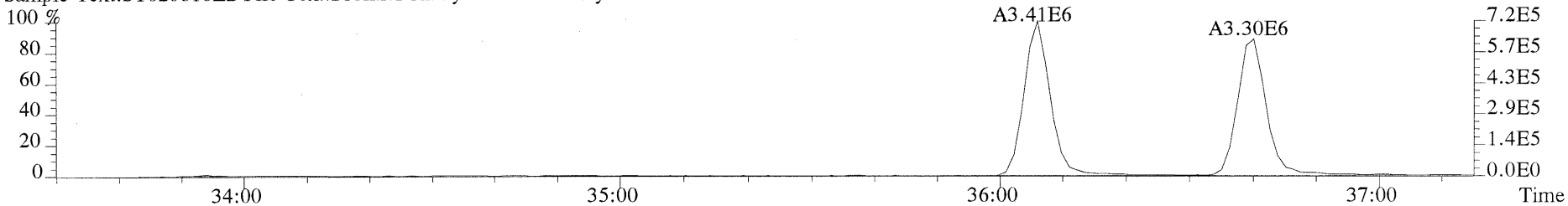
File:08FEB16Z #1-399 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



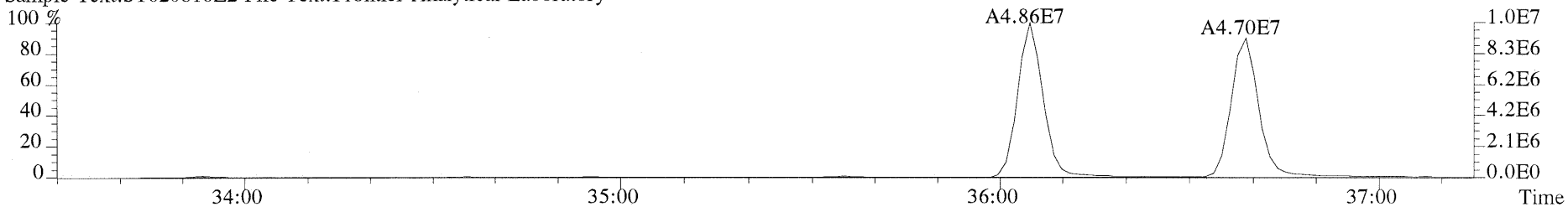
File:08FEB16Z #1-182 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



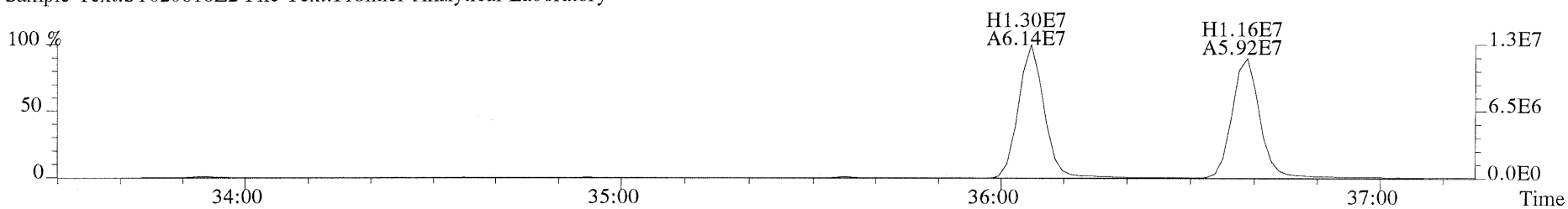
File:08FEB16Z #1-182 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



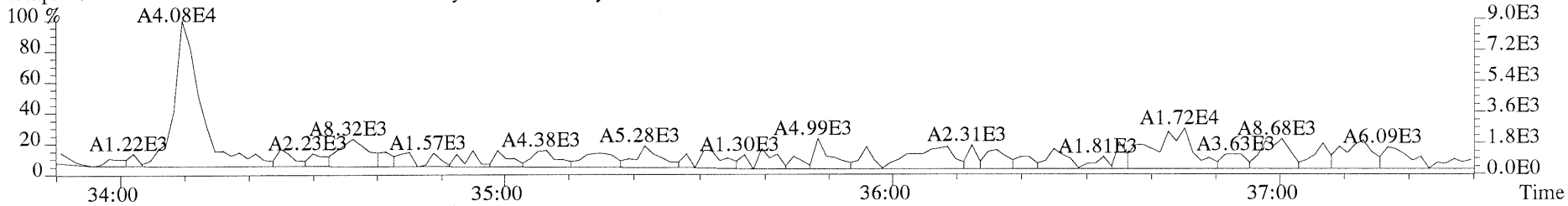
File:08FEB16Z #1-182 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



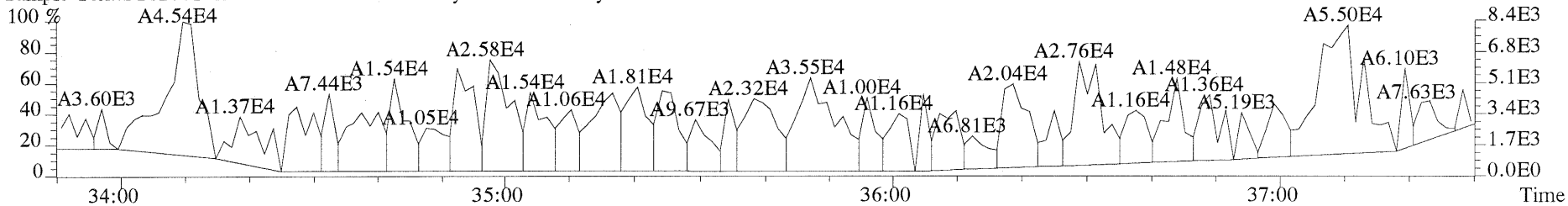
File:08FEB16Z #1-182 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 09:25:45 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:ST020816Z2 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 09:25:45 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:ST020816Z2 File Text:Frontier Analytical Laboratory



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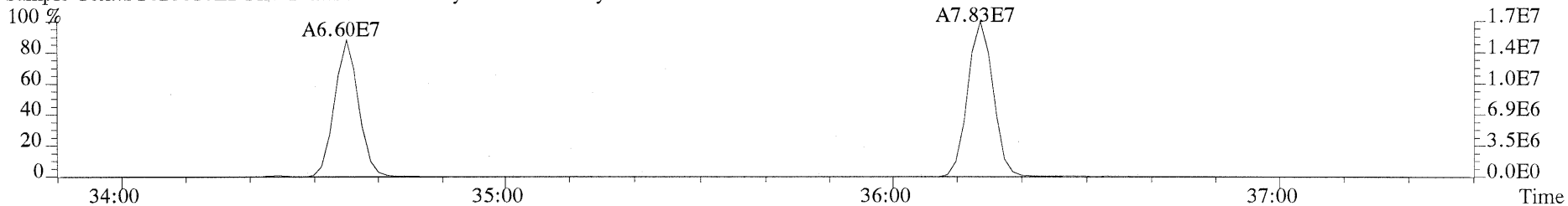
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



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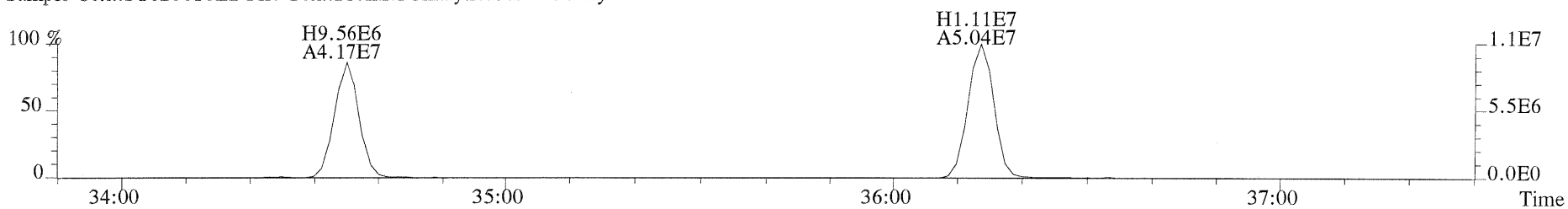
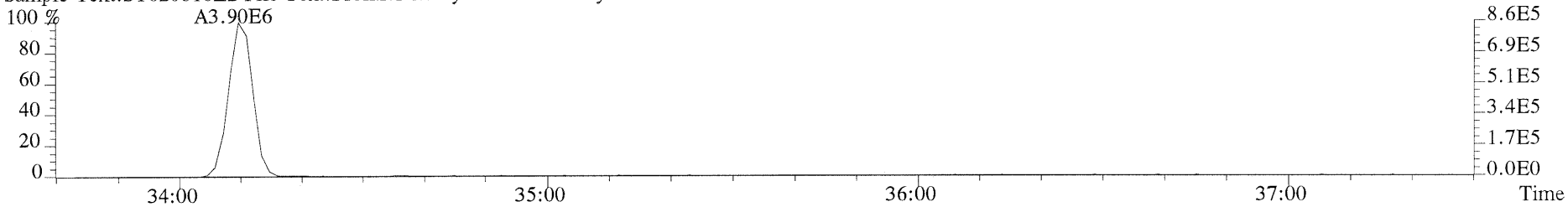
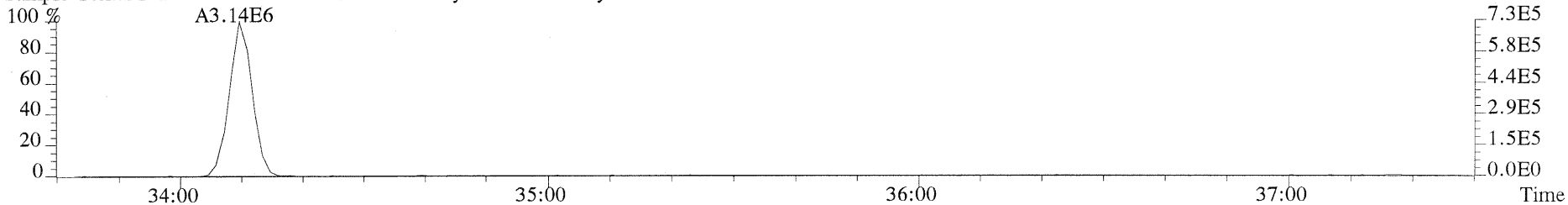
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



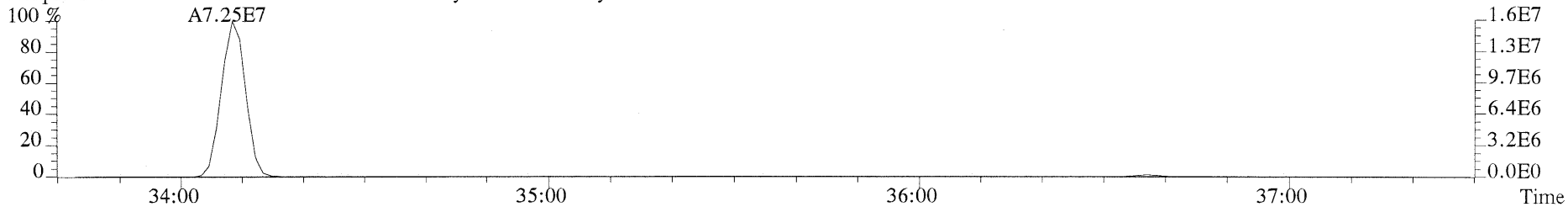
File:08FEB16Z #1-182 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



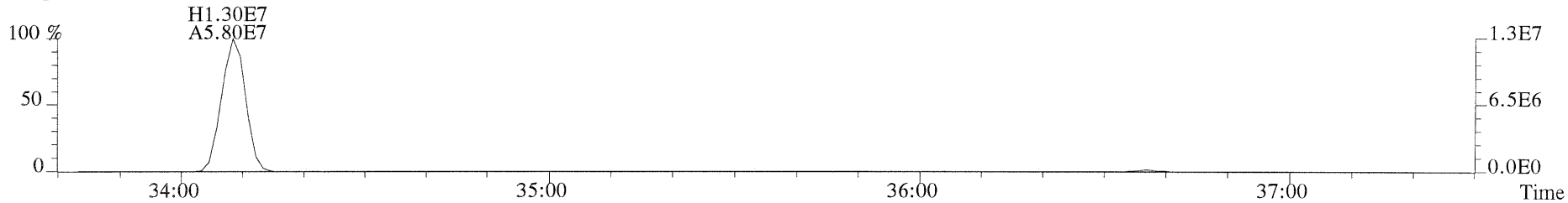
File:08FEB16Z #1-182 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



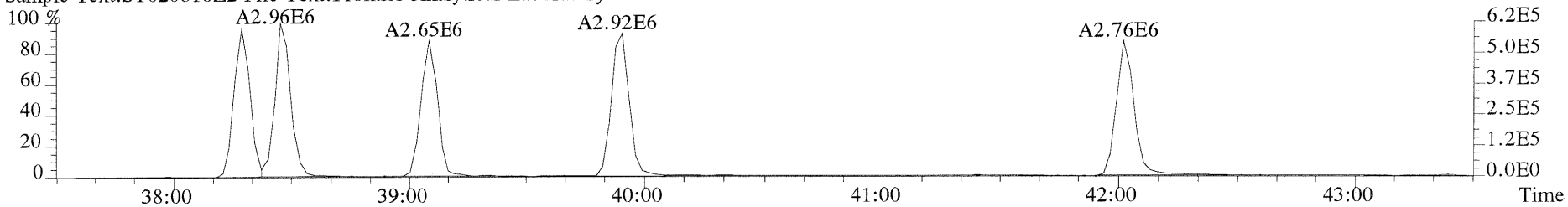
File:08FEB16Z #1-182 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



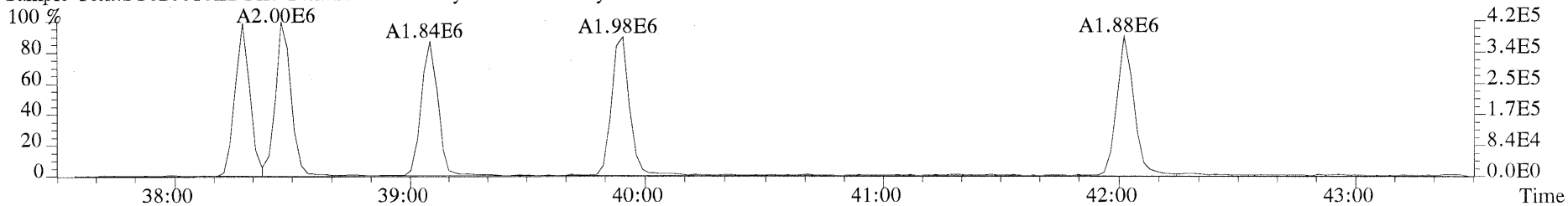
File:08FEB16Z #1-182 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



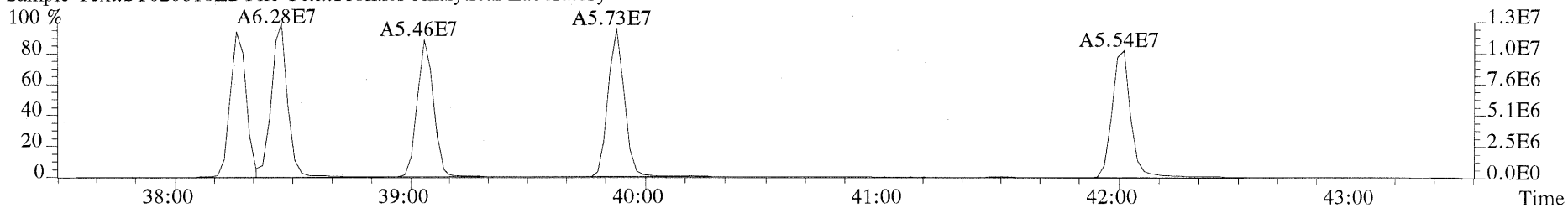
File:08FEB16Z #1-412 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



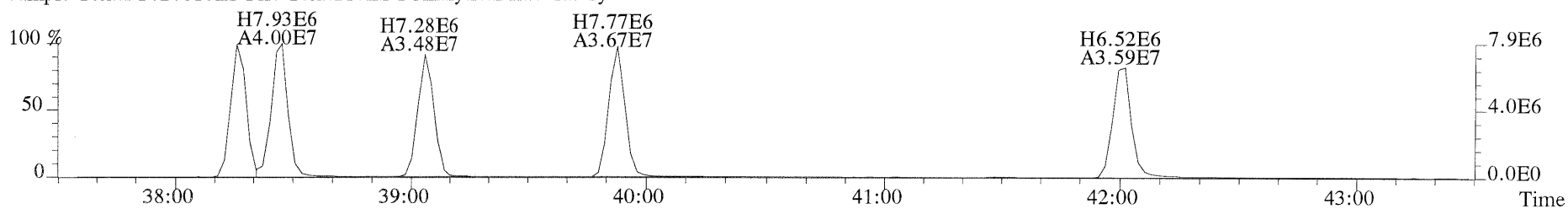
File:08FEB16Z #1-412 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



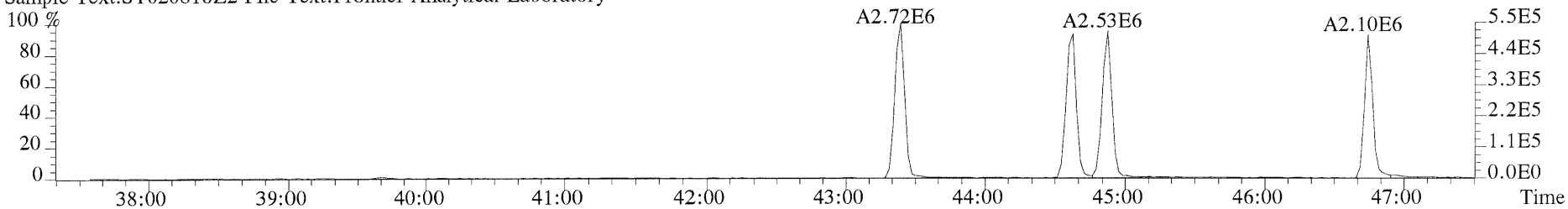
File:08FEB16Z #1-412 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



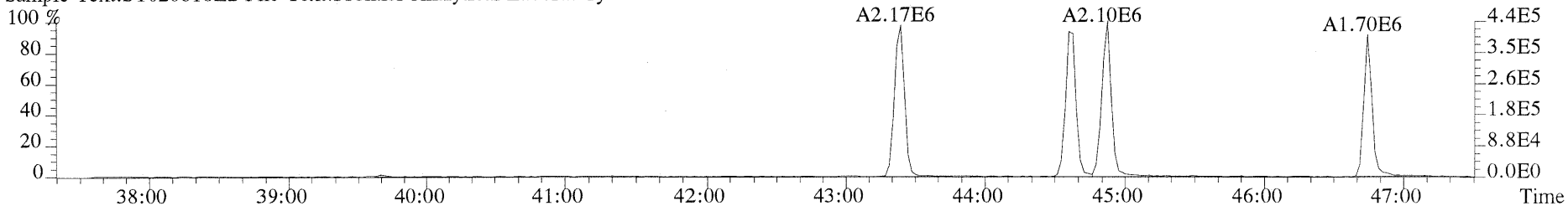
File:08FEB16Z #1-412 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



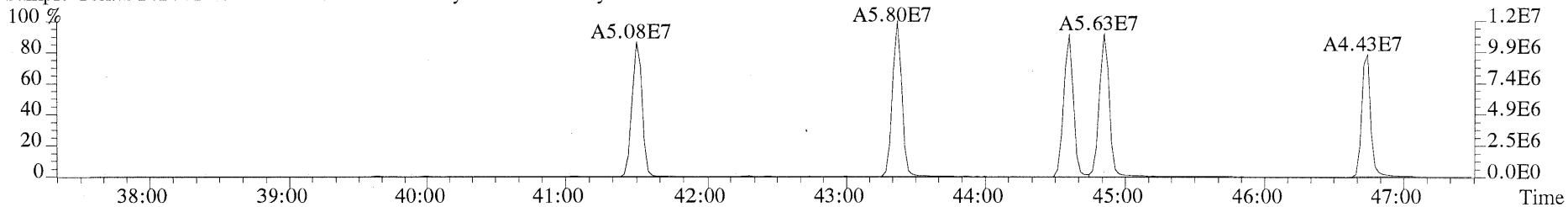
File:08FEB16Z #1-412 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



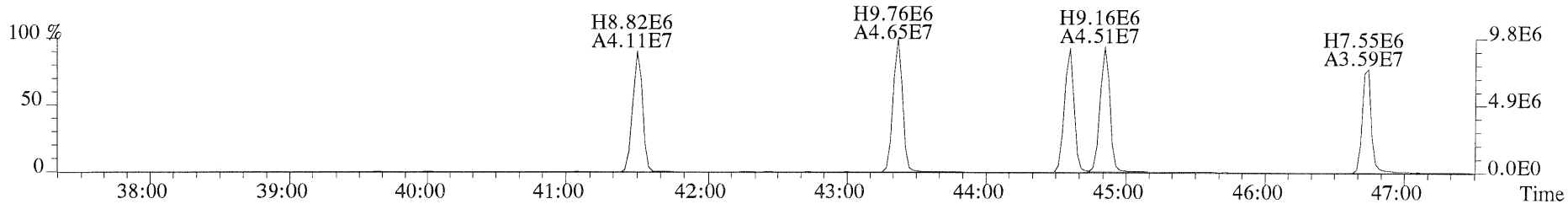
File:08FEB16Z #1-412 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



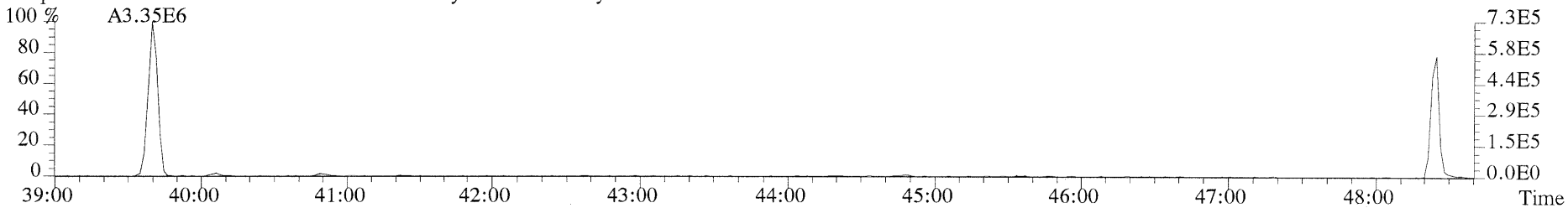
File:08FEB16Z #1-412 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



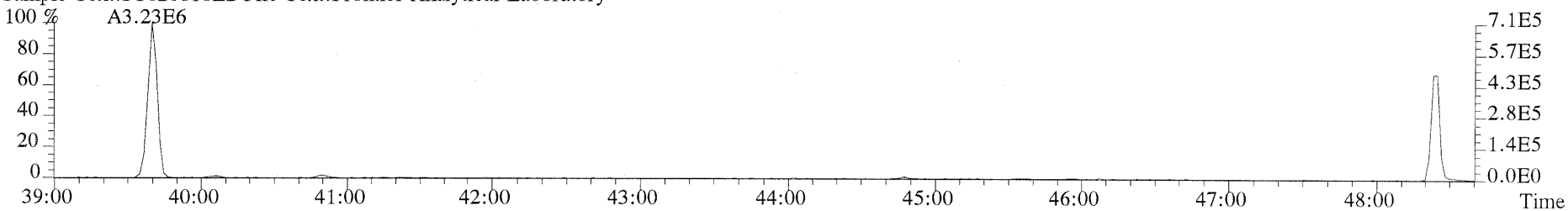
File:08FEB16Z #1-412 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



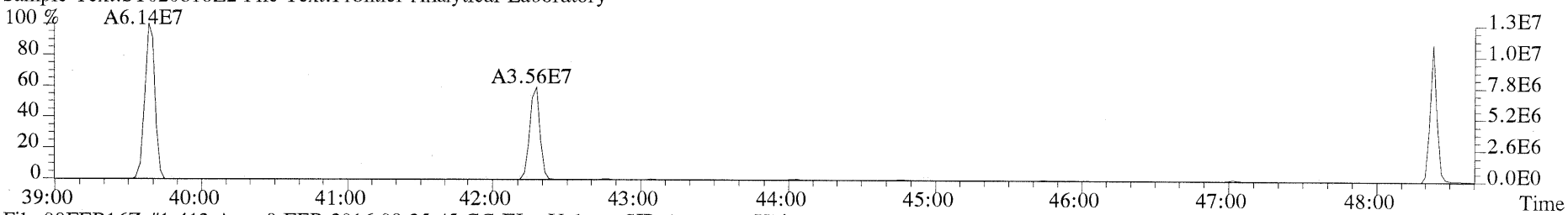
File:08FEB16Z #1-412 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



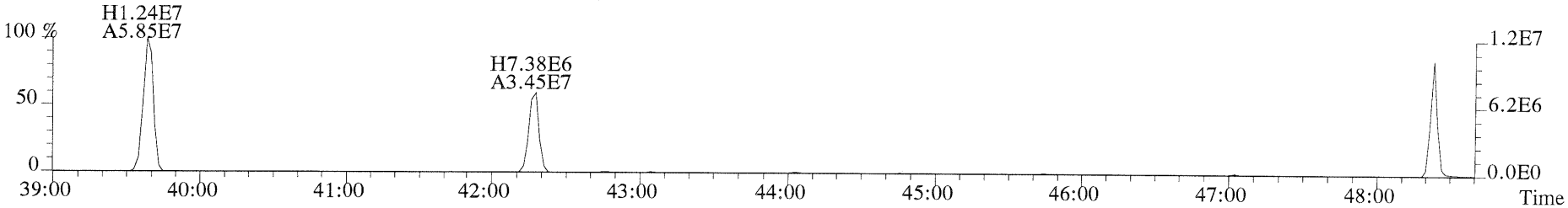
File:08FEB16Z #1-412 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



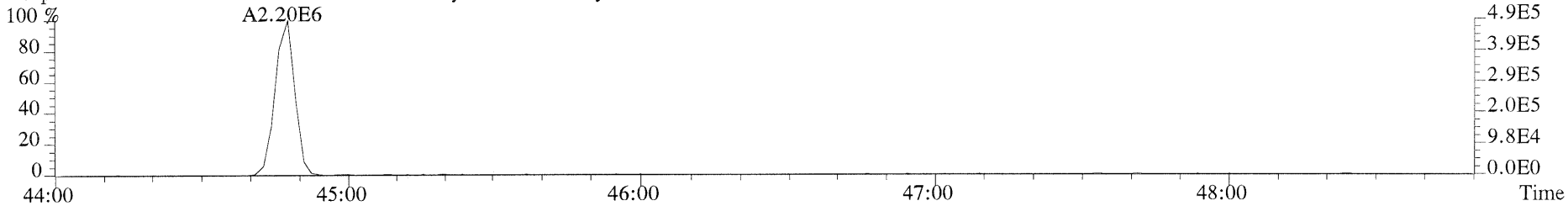
File:08FEB16Z #1-412 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



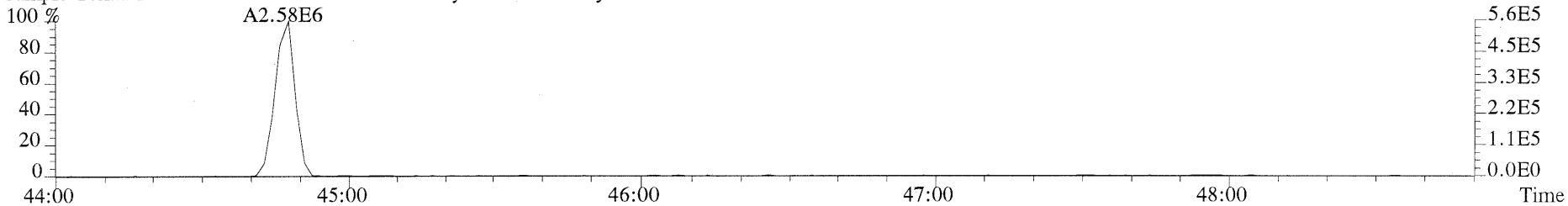
File:08FEB16Z #1-412 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



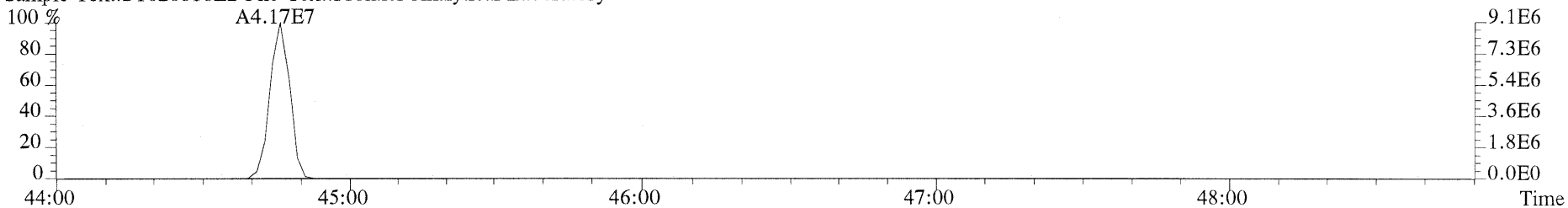
File:08FEB16Z #1-412 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



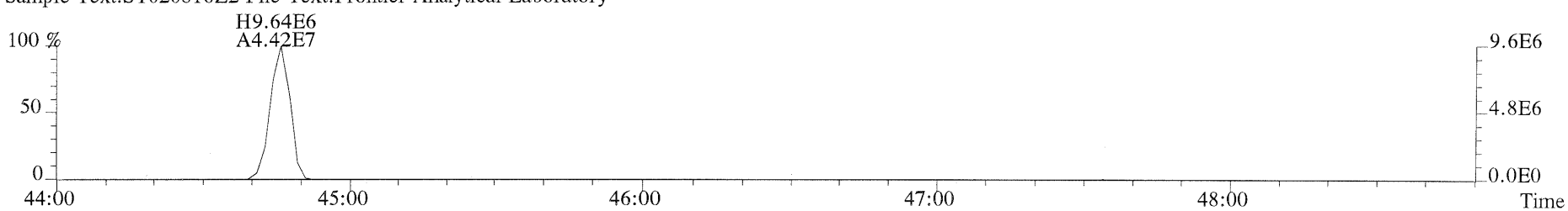
File:08FEB16Z #1-412 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



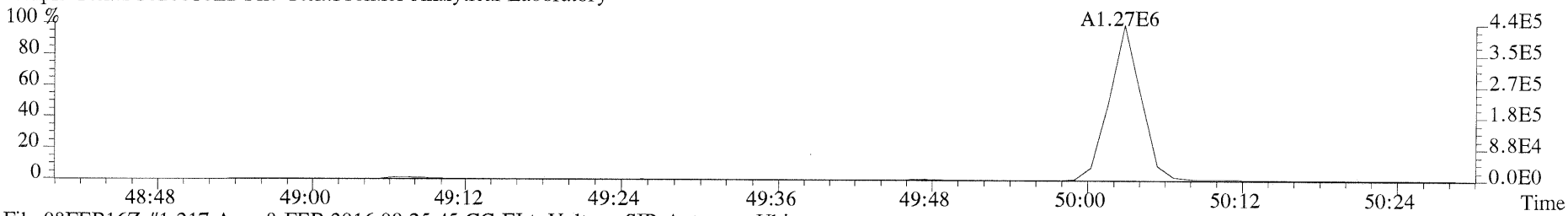
File:08FEB16Z #1-412 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



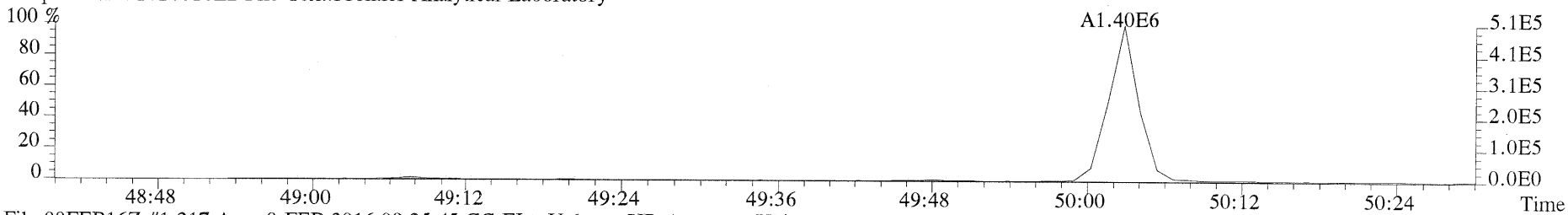
File:08FEB16Z #1-412 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



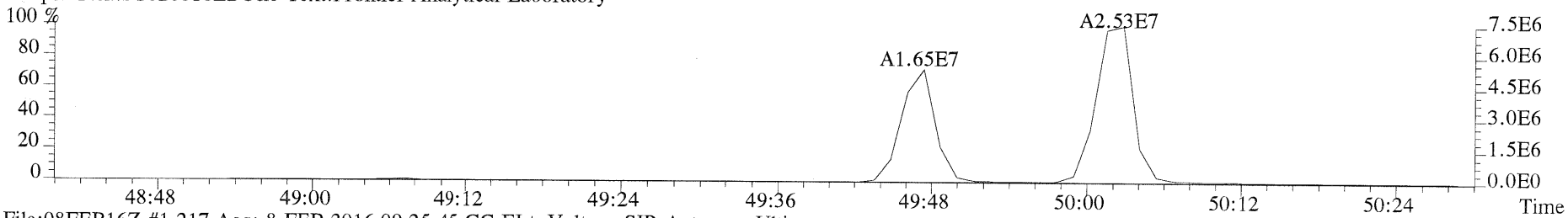
File:08FEB16Z #1-217 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



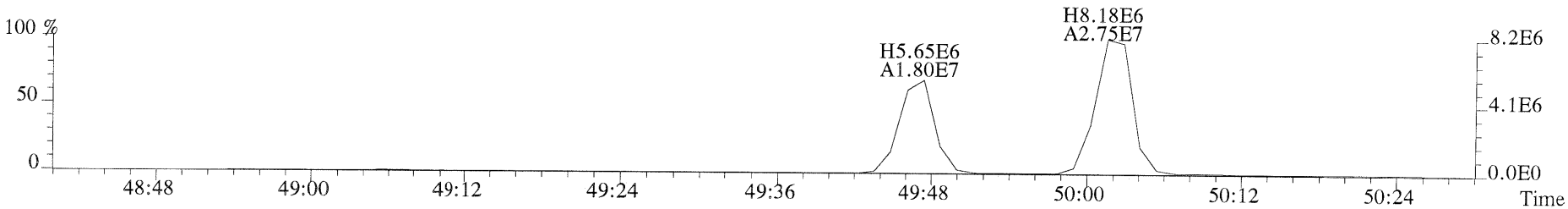
File:08FEB16Z #1-217 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



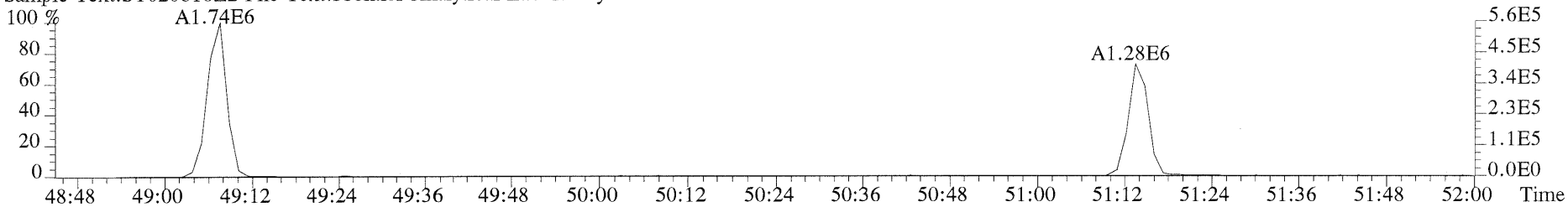
File:08FEB16Z #1-217 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



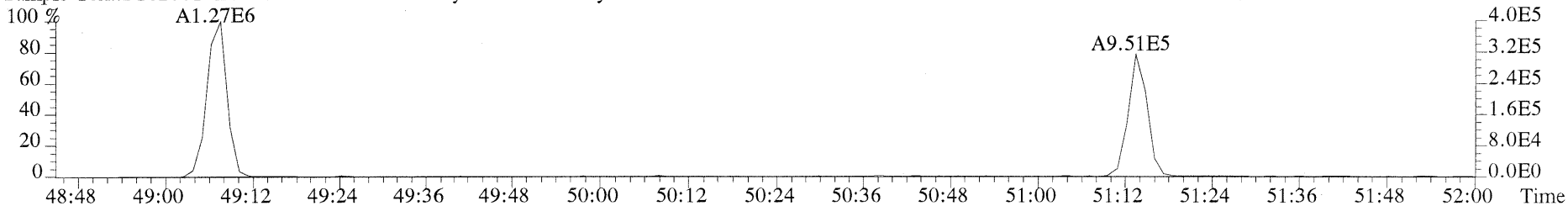
File:08FEB16Z #1-217 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



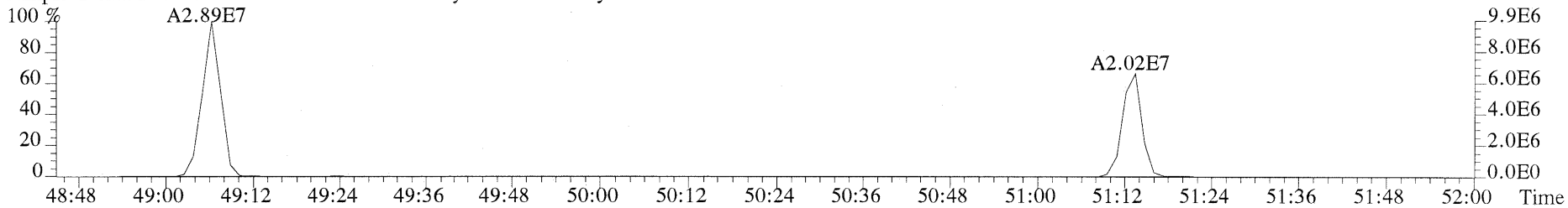
File:08FEB16Z #1-217 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



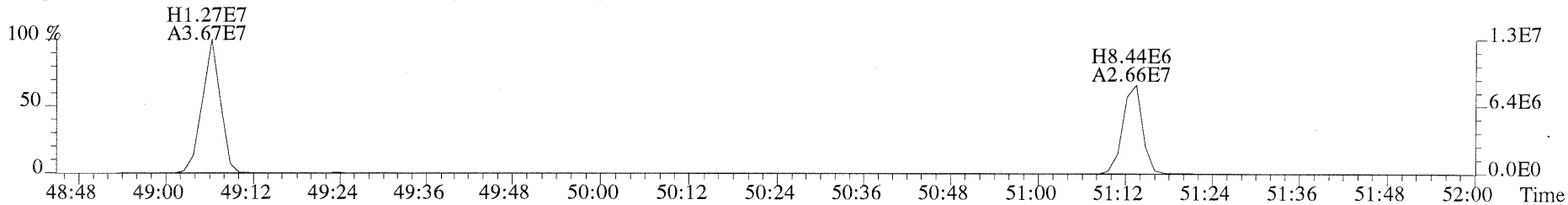
File:08FEB16Z #1-217 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



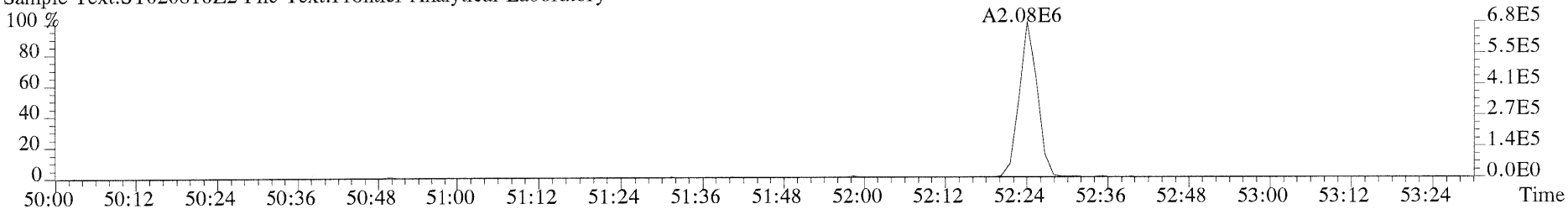
File:08FEB16Z #1-217 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



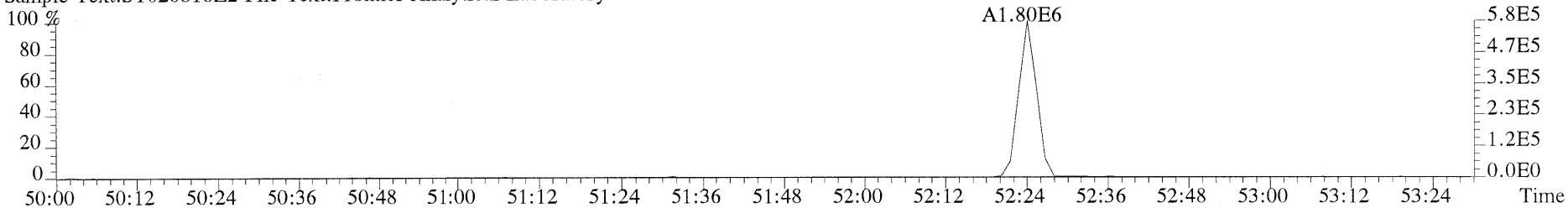
File:08FEB16Z #1-217 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



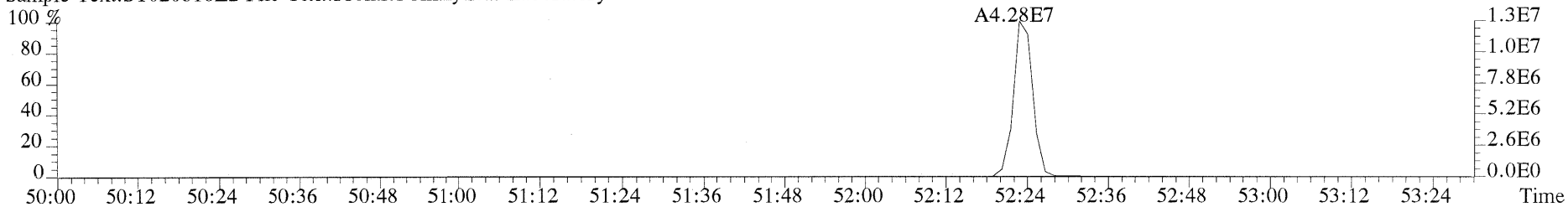
File:08FEB16Z #1-217 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



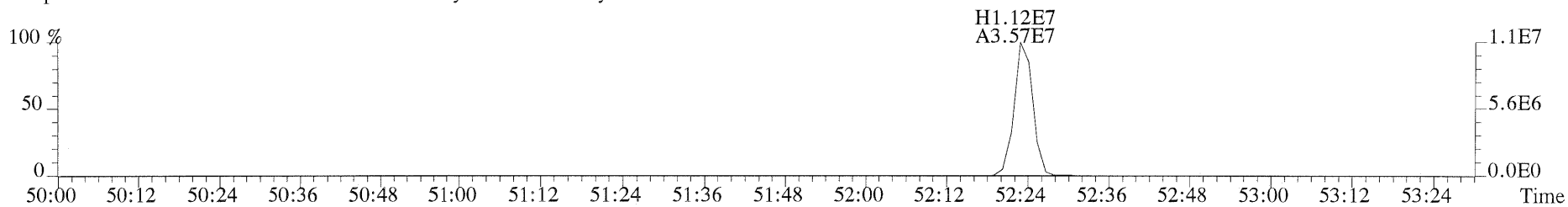
File:08FEB16Z #1-217 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



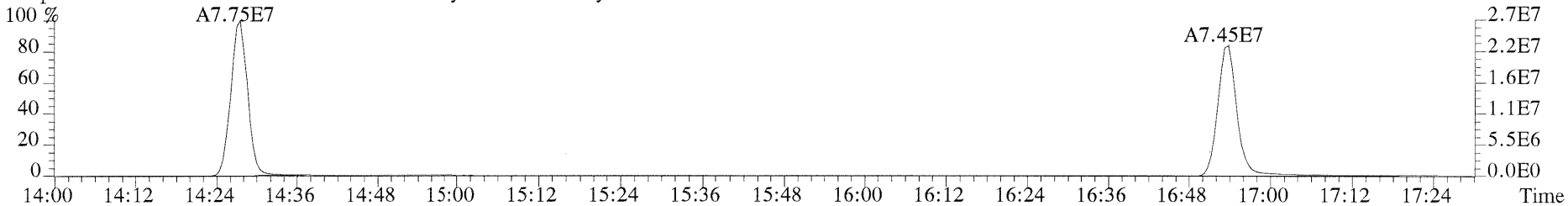
File:08FEB16Z #1-217 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



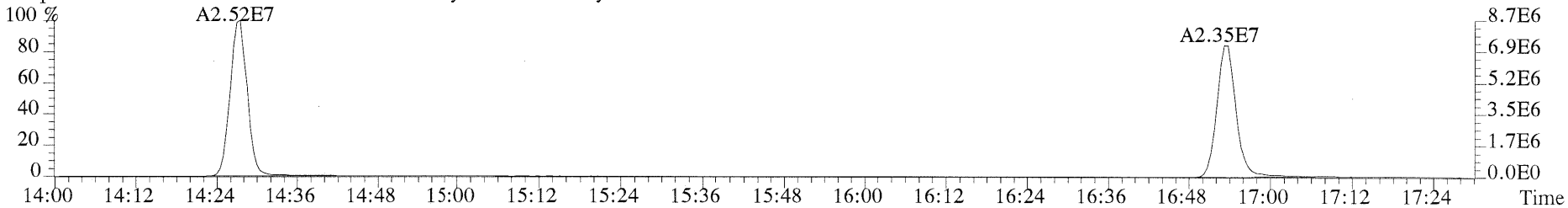
File:08FEB16Z #1-217 Acq: 8-FEB-2016 09:25:45 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z2 File Text:Frontier Analytical Laboratory



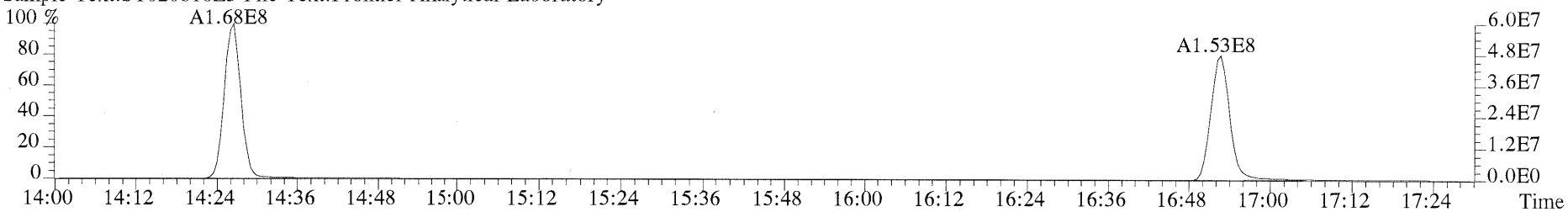
File:08FEB16Z #1-489 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



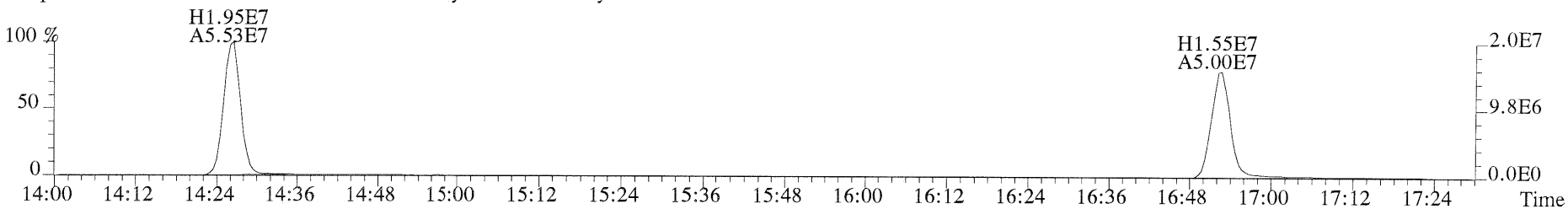
File:08FEB16Z #1-489 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



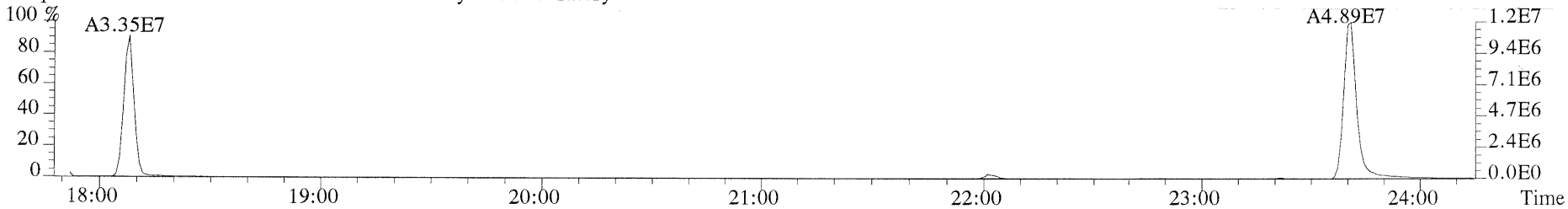
File:08FEB16Z #1-489 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



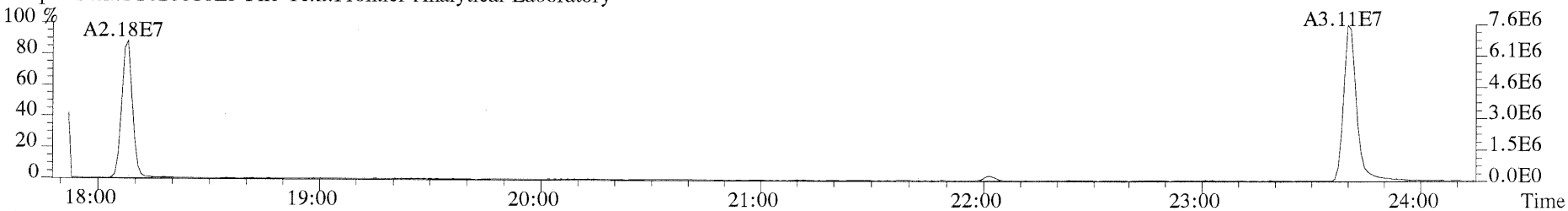
File:08FEB16Z #1-489 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



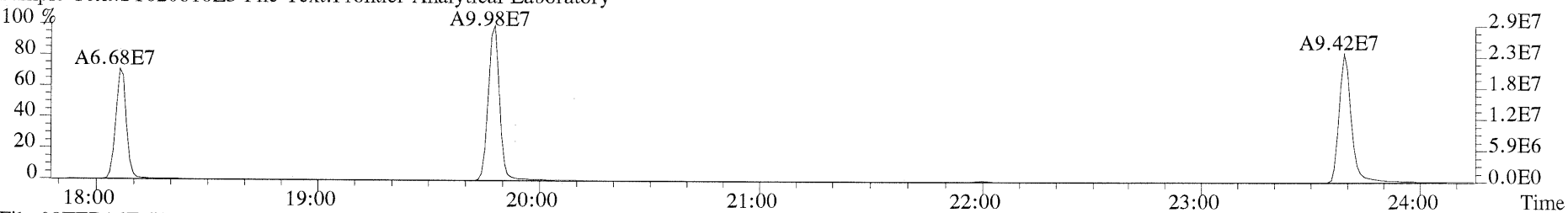
File:08FEB16Z #1-503 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



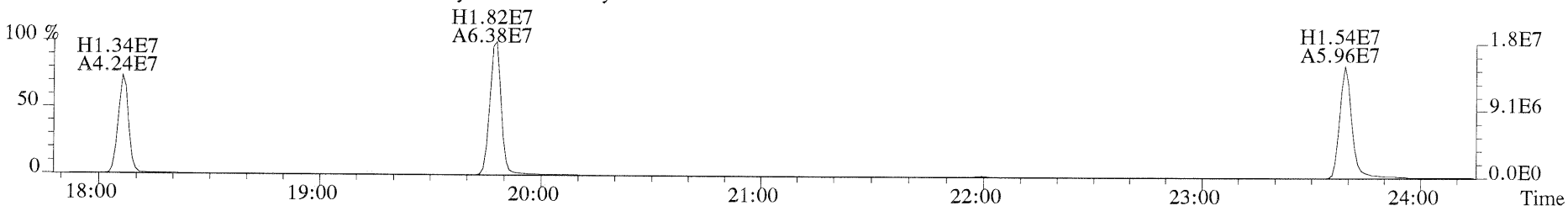
File:08FEB16Z #1-503 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



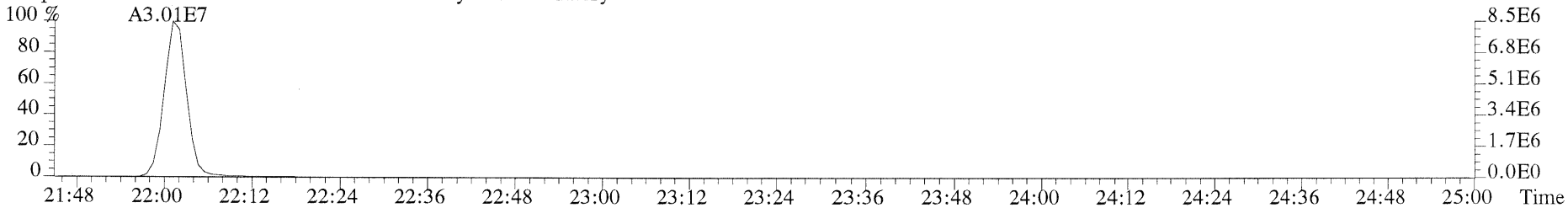
File:08FEB16Z #1-503 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



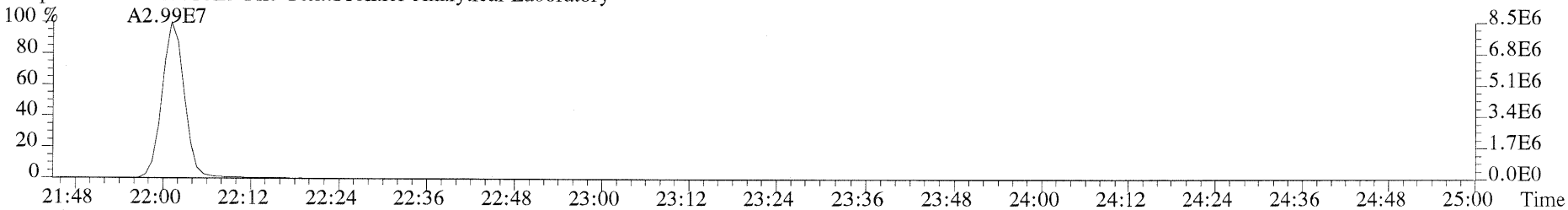
File:08FEB16Z #1-503 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



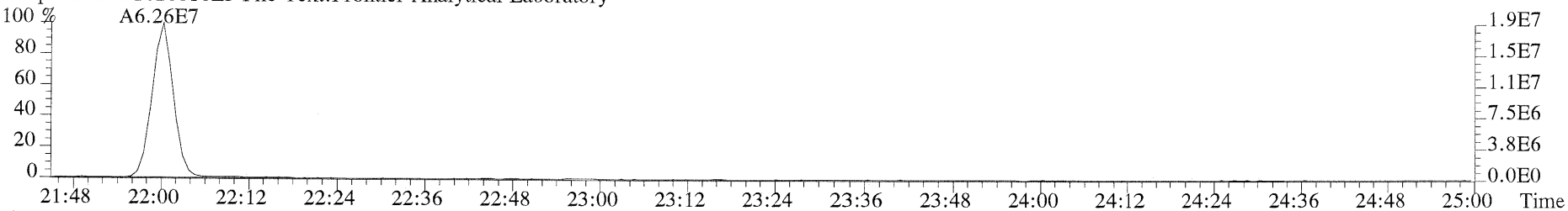
File:08FEB16Z #1-503 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



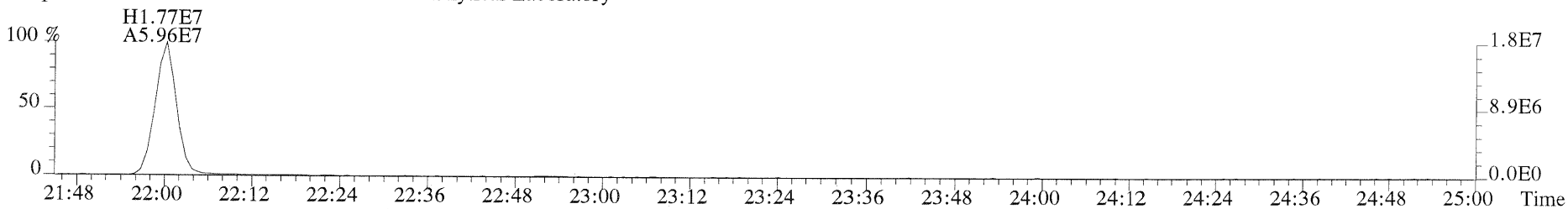
File:08FEB16Z #1-503 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



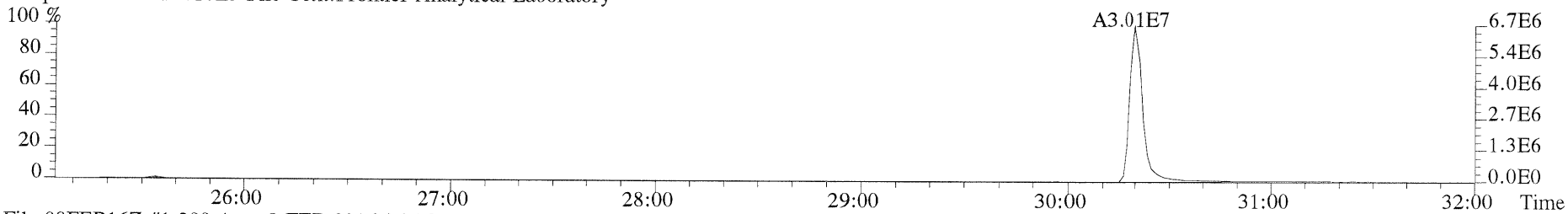
File:08FEB16Z #1-503 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



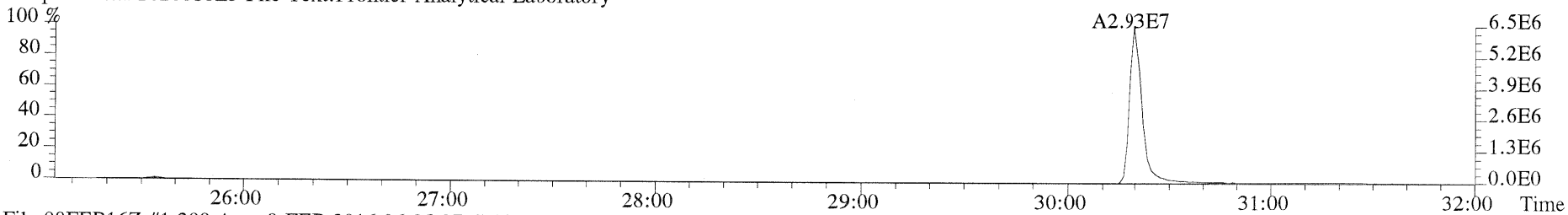
File:08FEB16Z #1-503 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



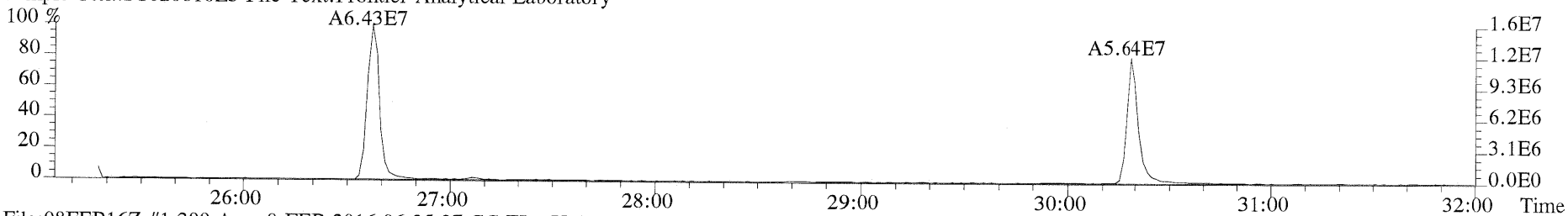
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



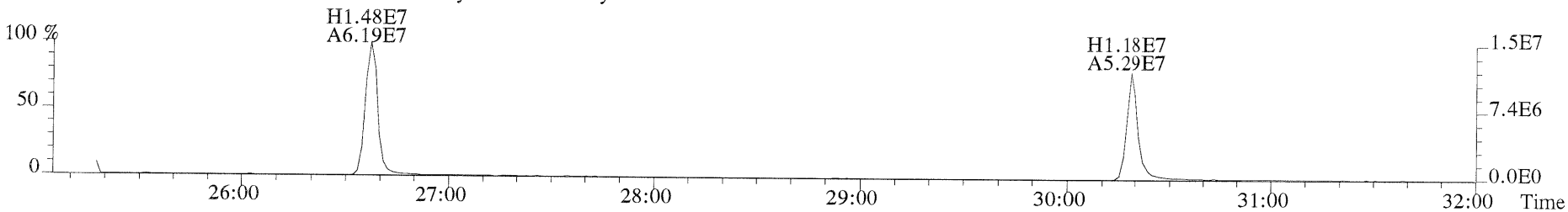
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



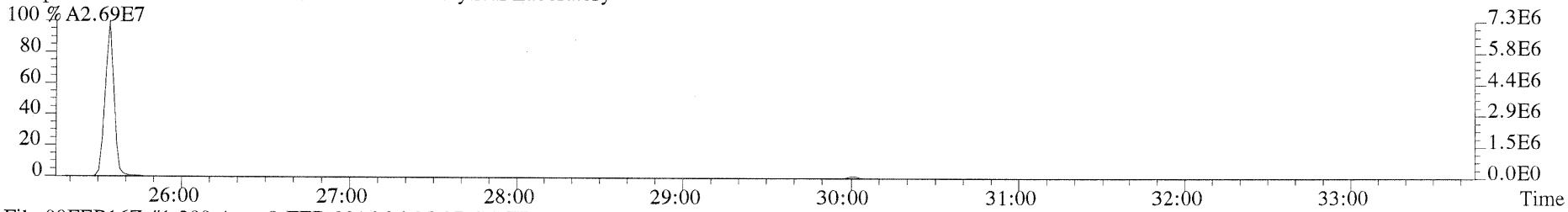
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



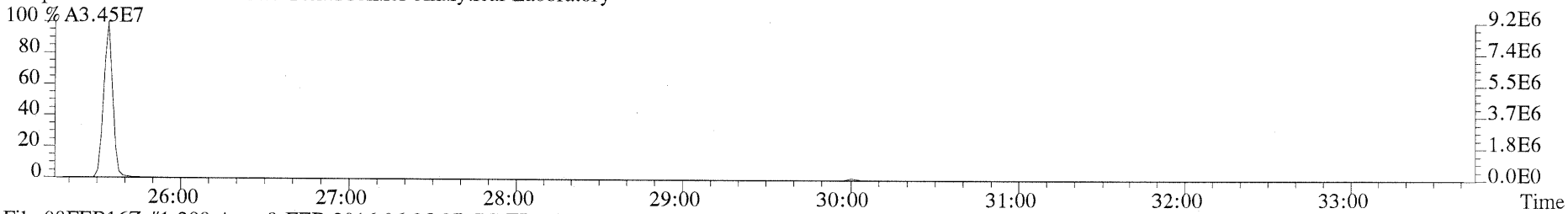
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



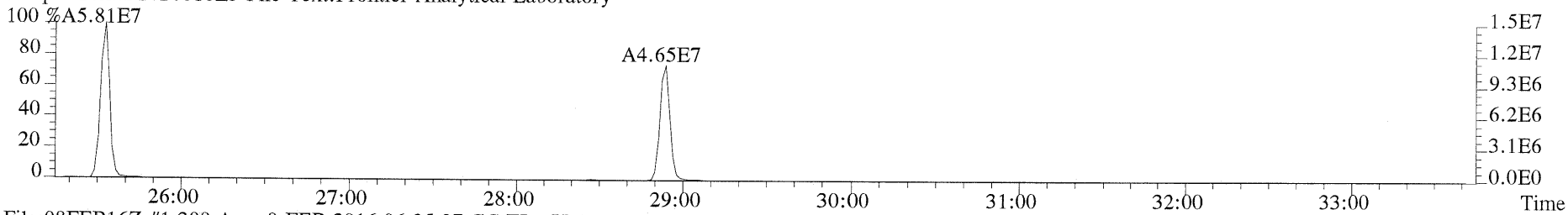
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



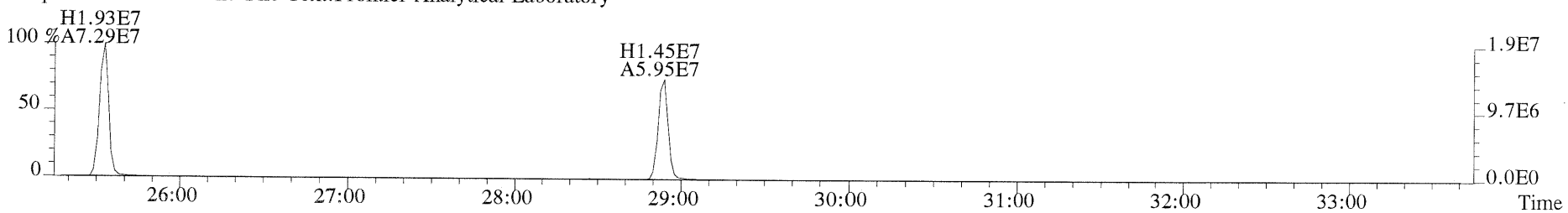
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



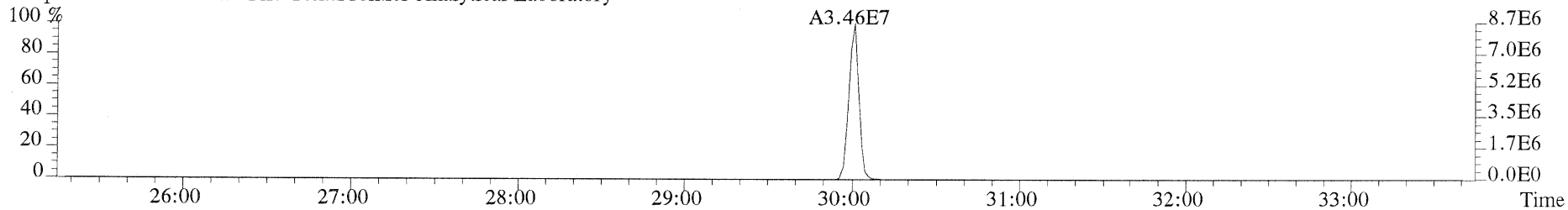
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



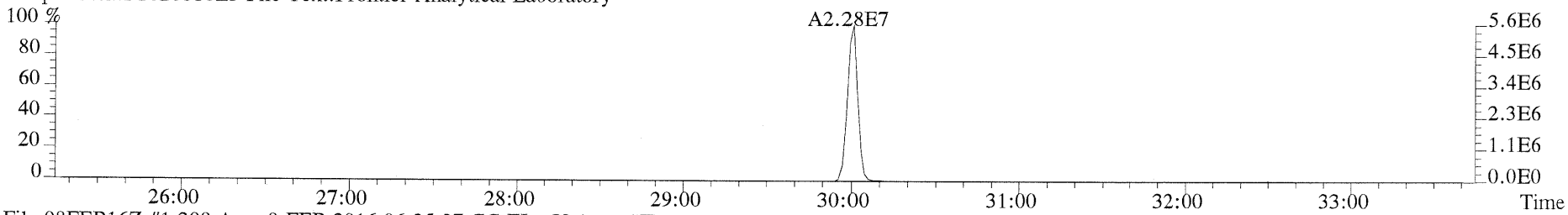
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



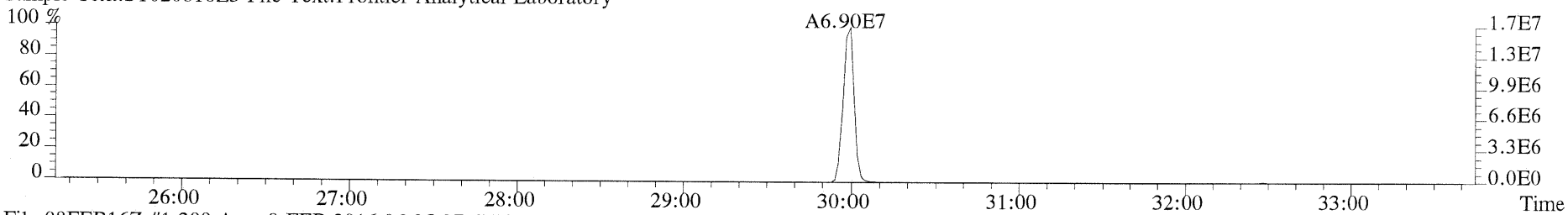
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



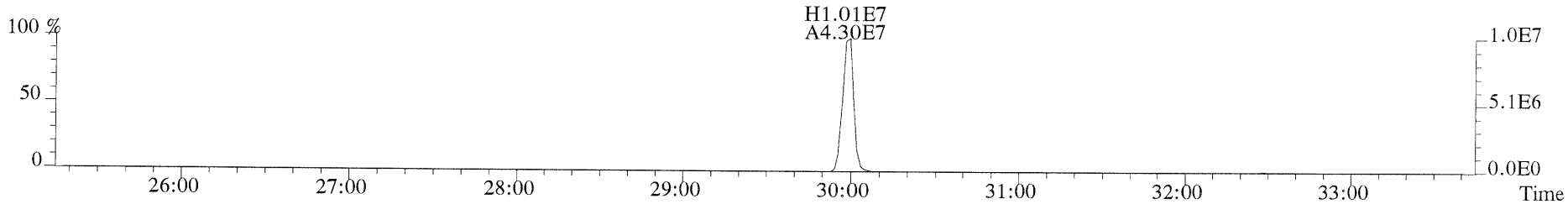
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



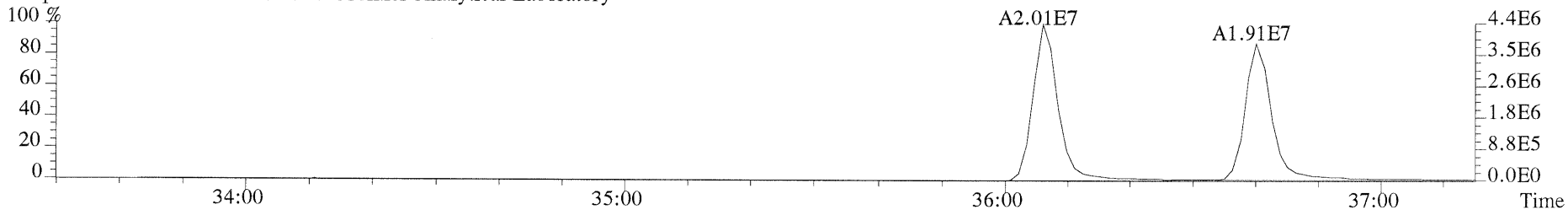
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



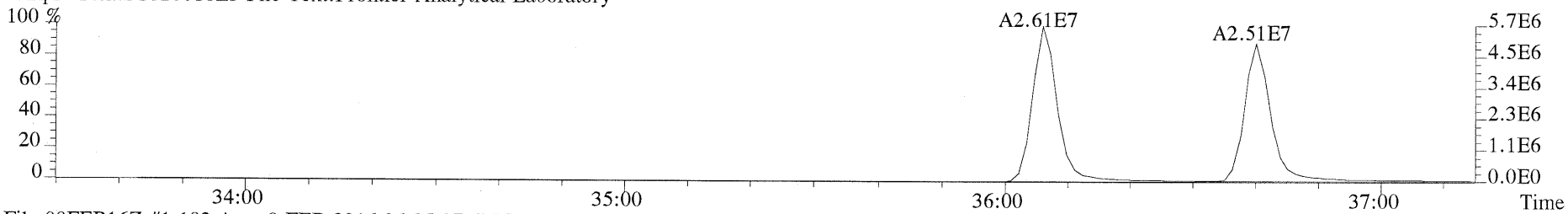
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



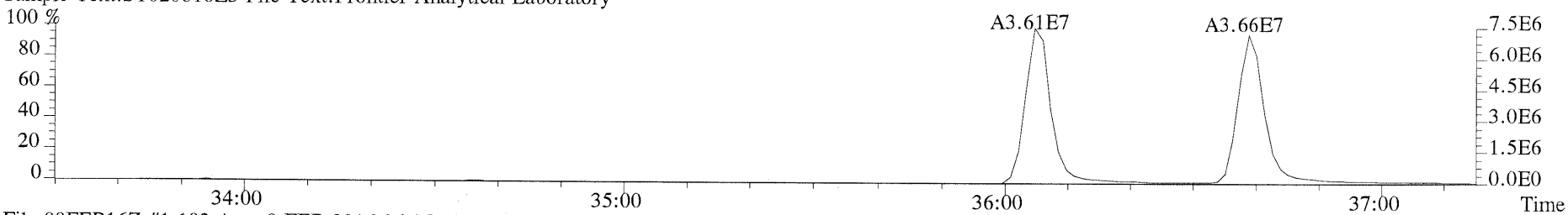
File:08FEB16Z #1-182 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



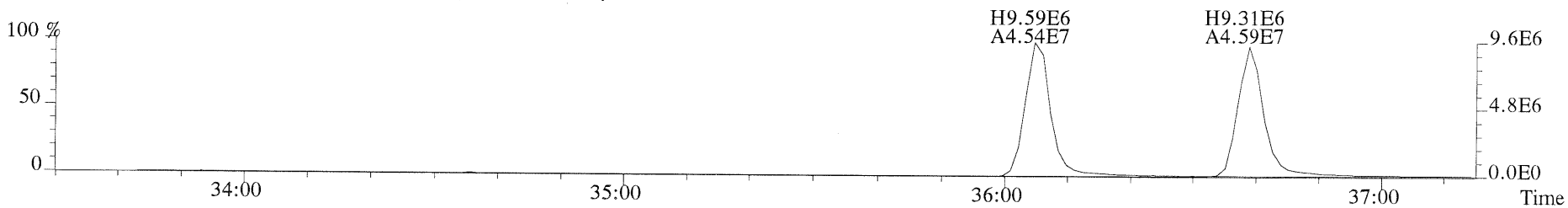
File:08FEB16Z #1-182 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



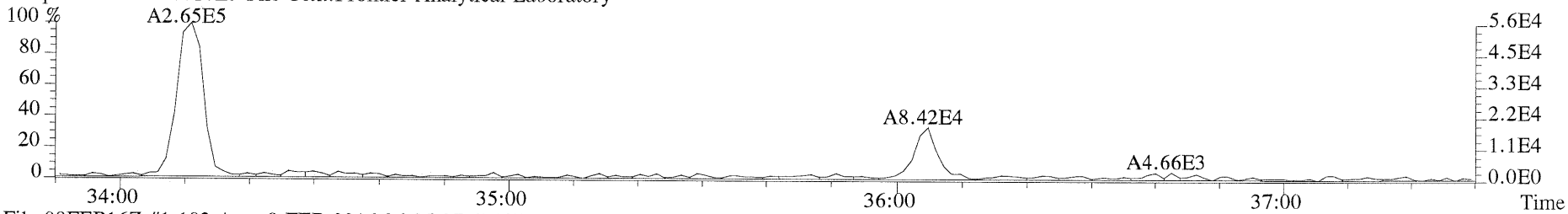
File:08FEB16Z #1-182 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



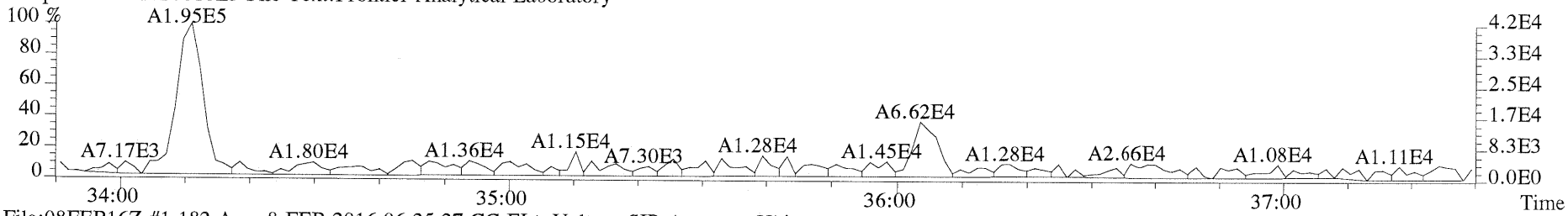
File:08FEB16Z #1-182 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 06:25:37 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:ST020816Z3 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 06:25:37 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:ST020816Z3 File Text:Frontier Analytical Laboratory



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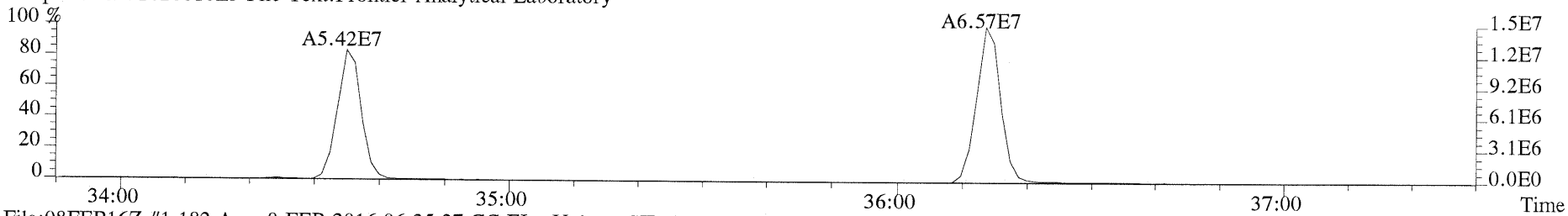
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



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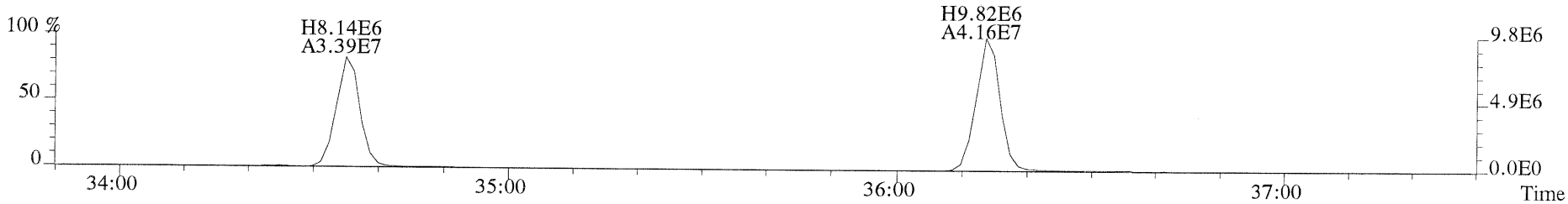
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



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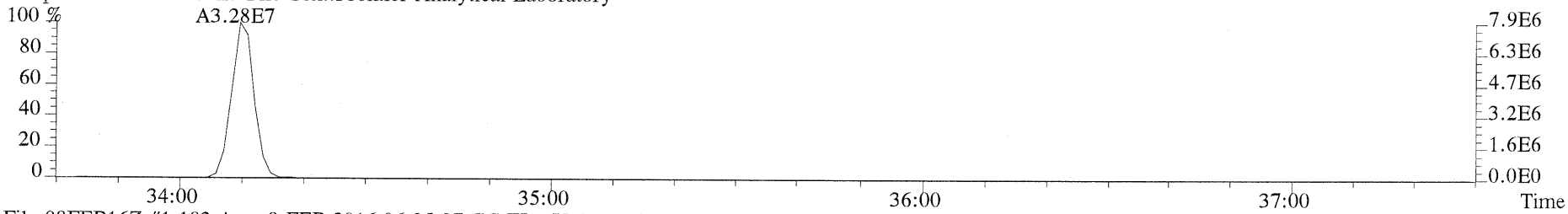
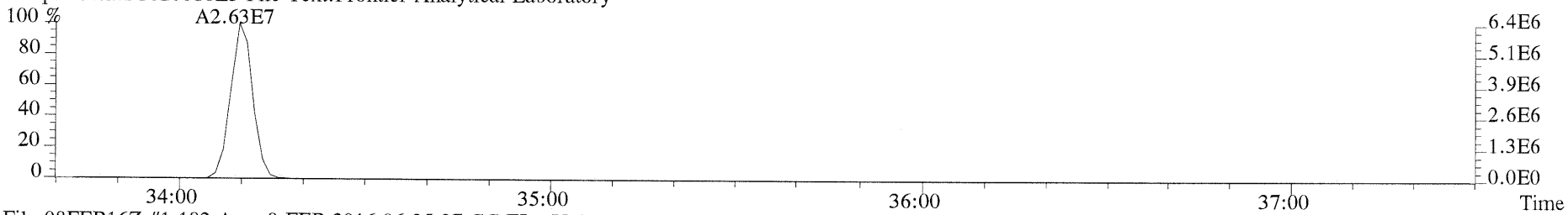
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 06:25:37 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:ST020816Z3 File Text:Frontier Analytical Laboratory



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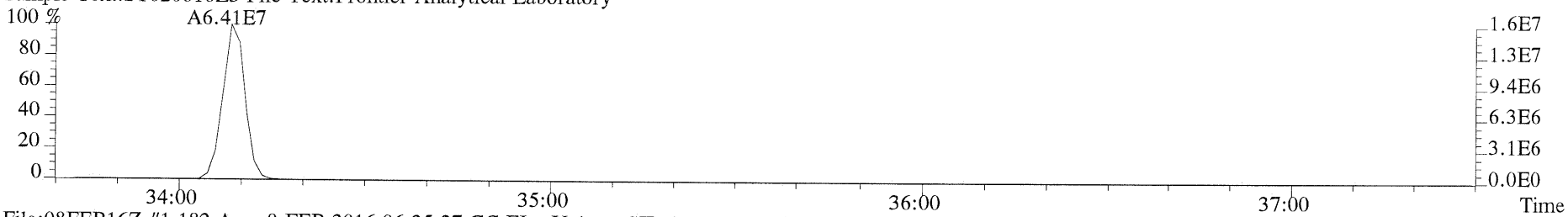
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



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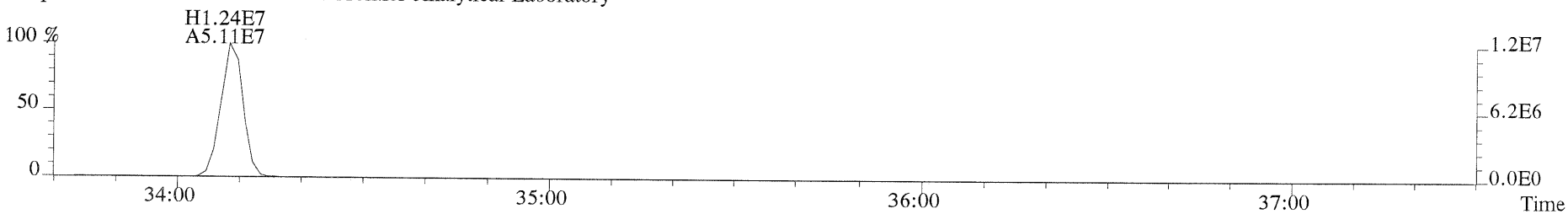
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
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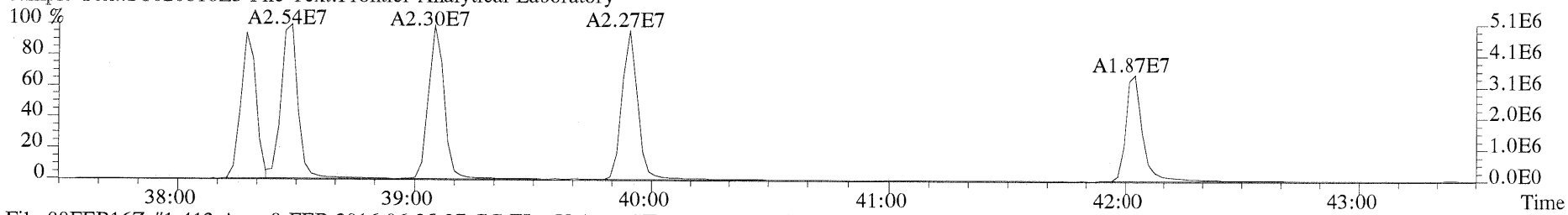
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
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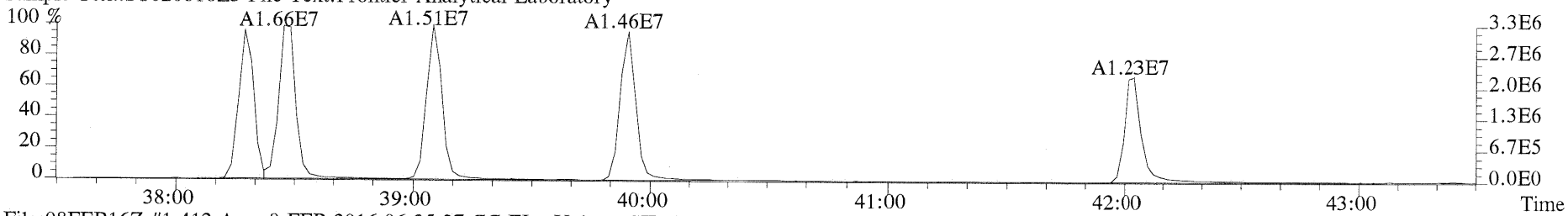
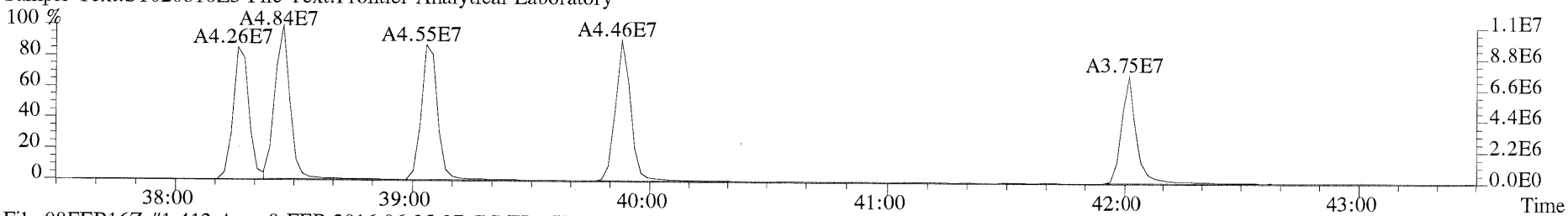
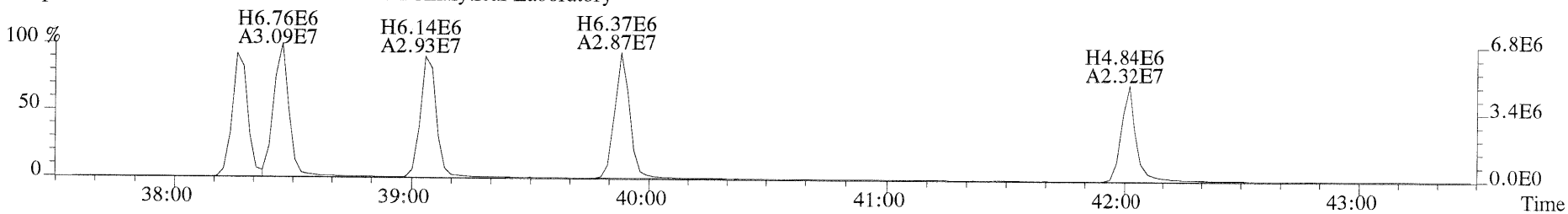
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



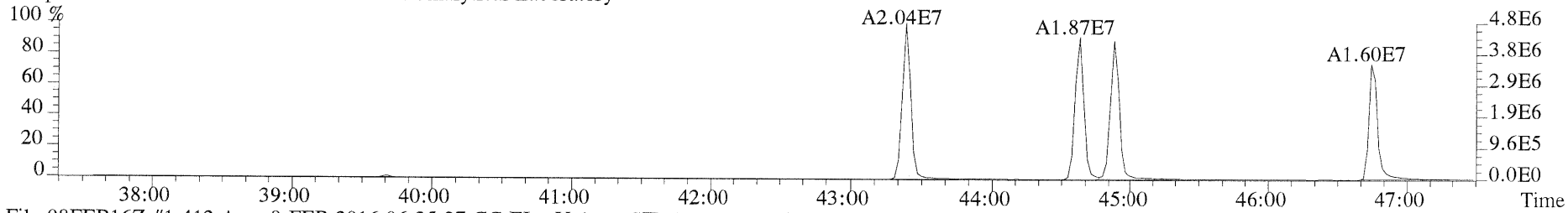
File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



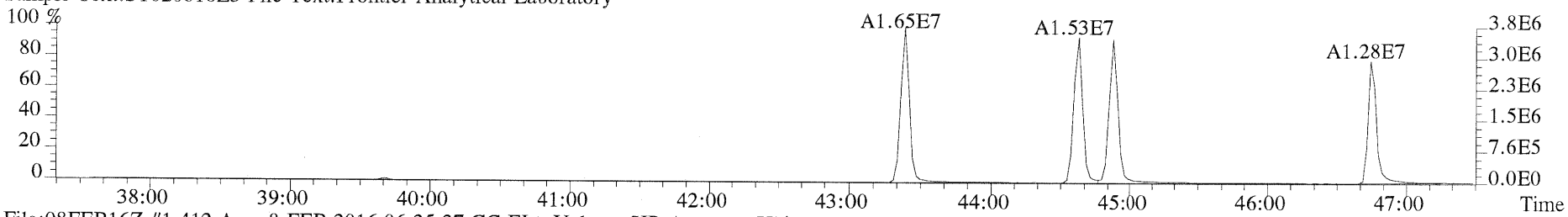
File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



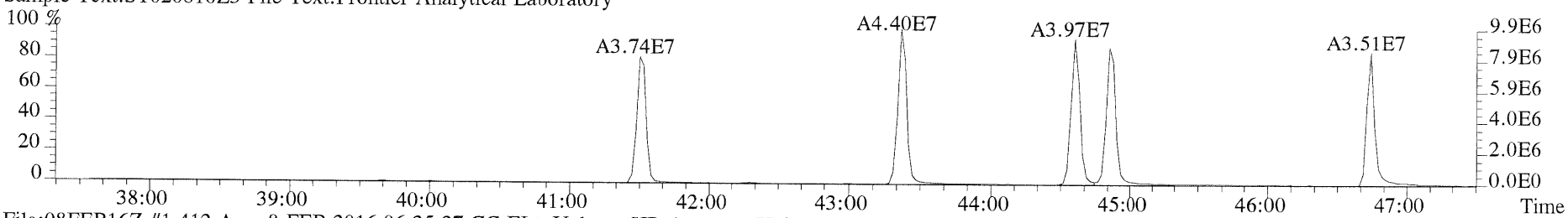
File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



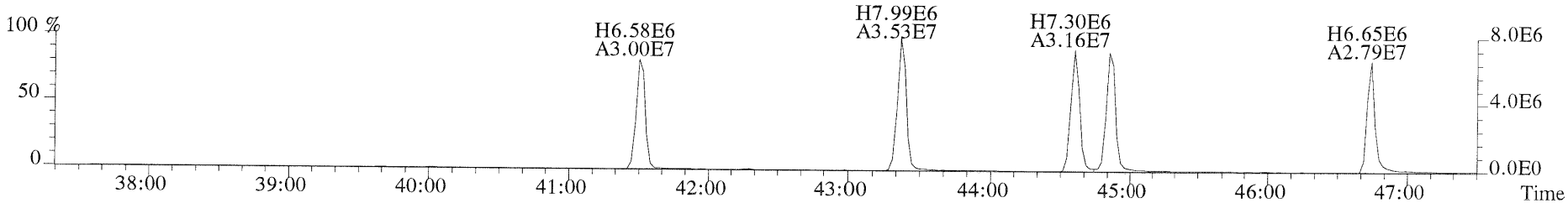
File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



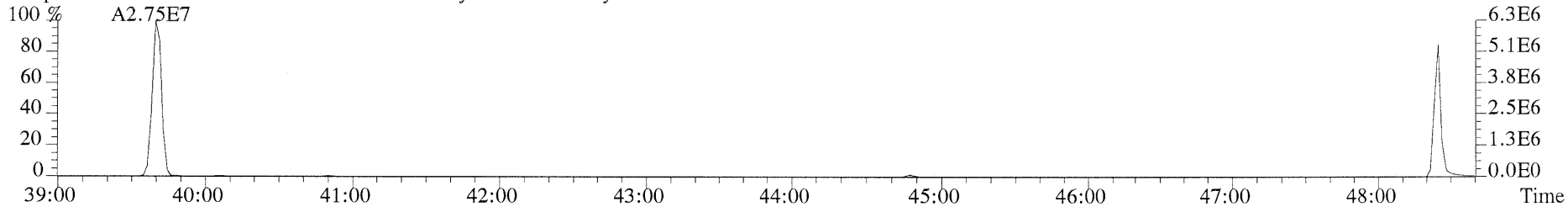
File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



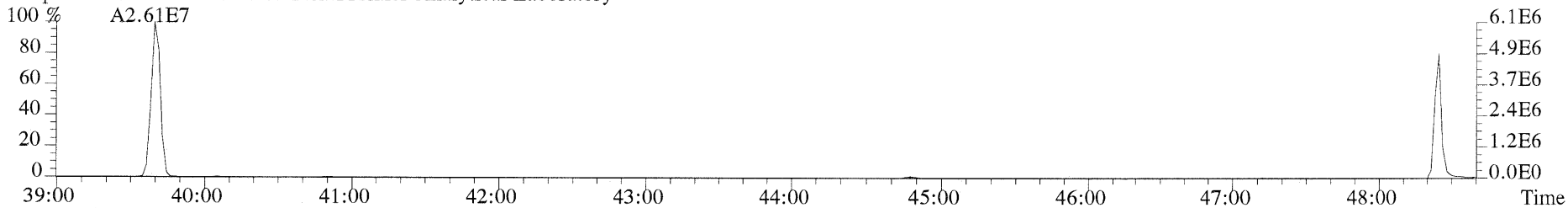
File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



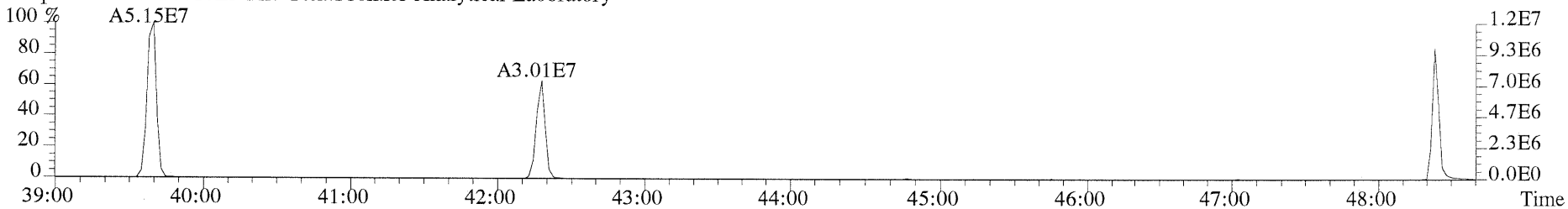
File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



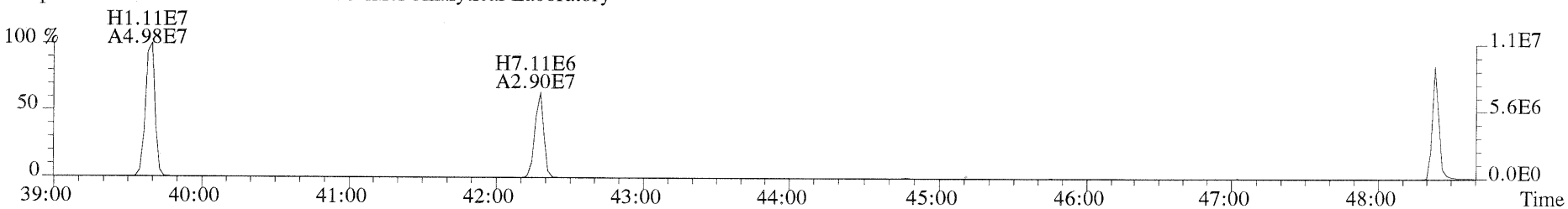
File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



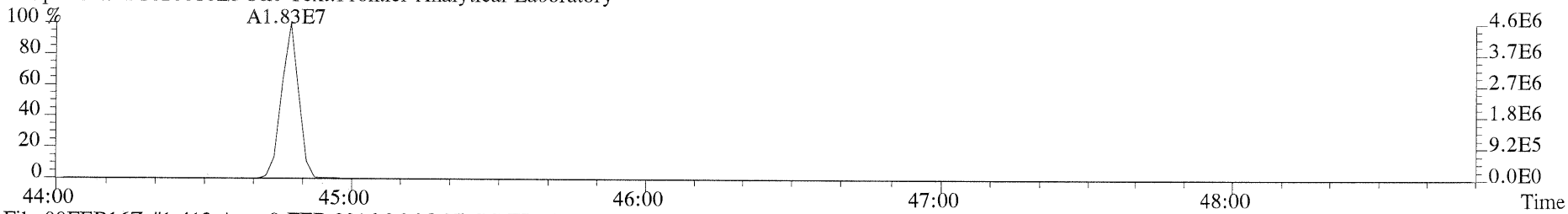
File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



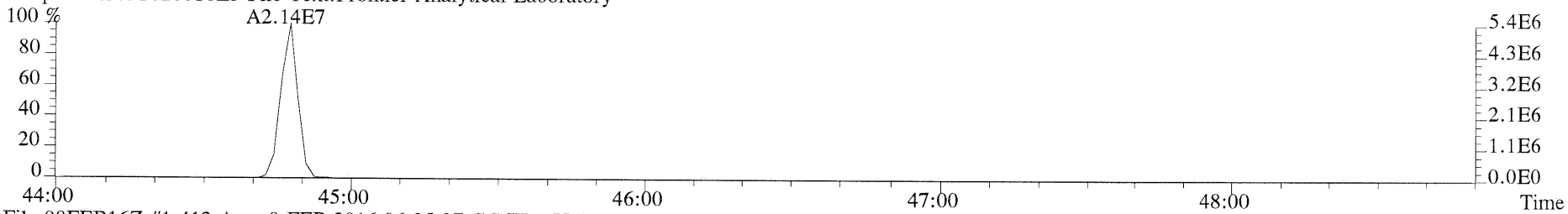
File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



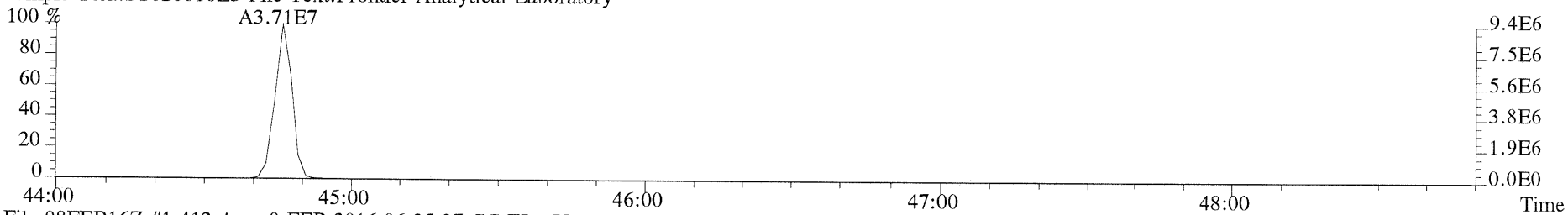
File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



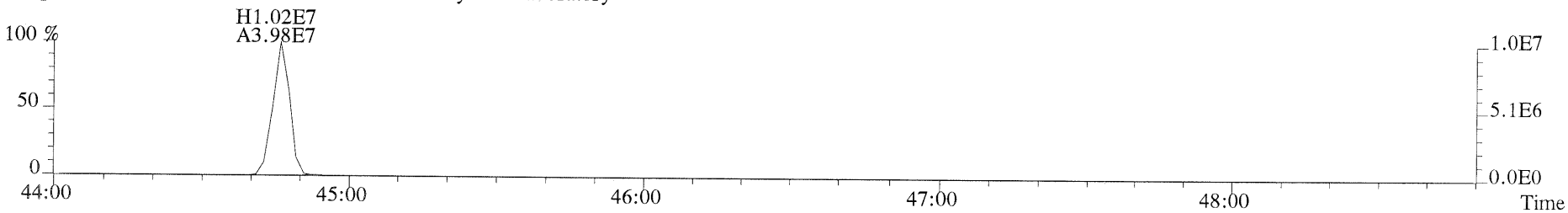
File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



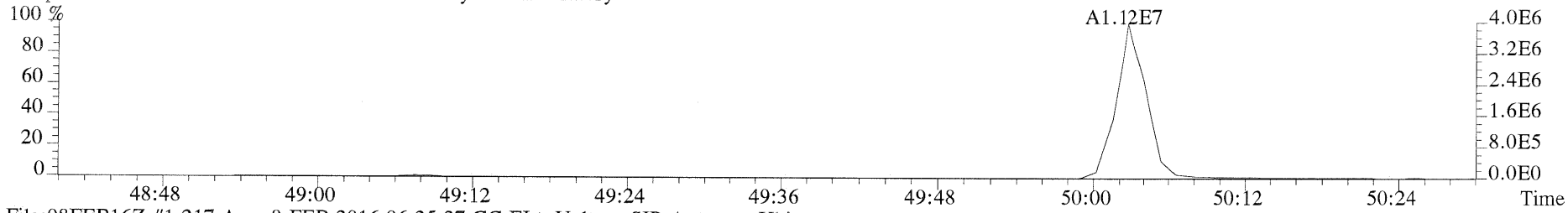
File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



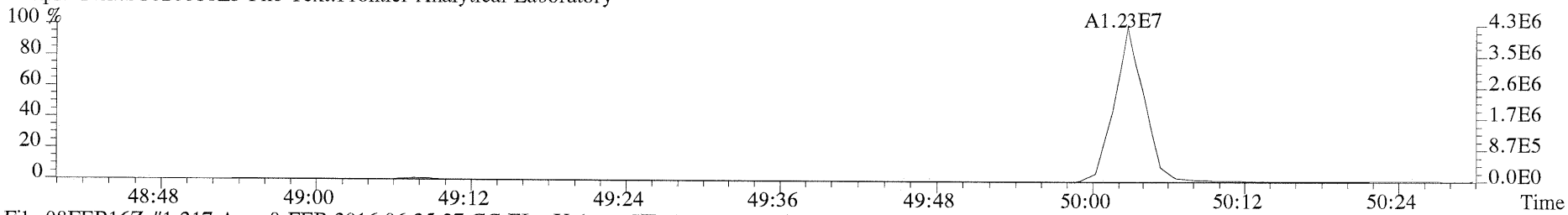
File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



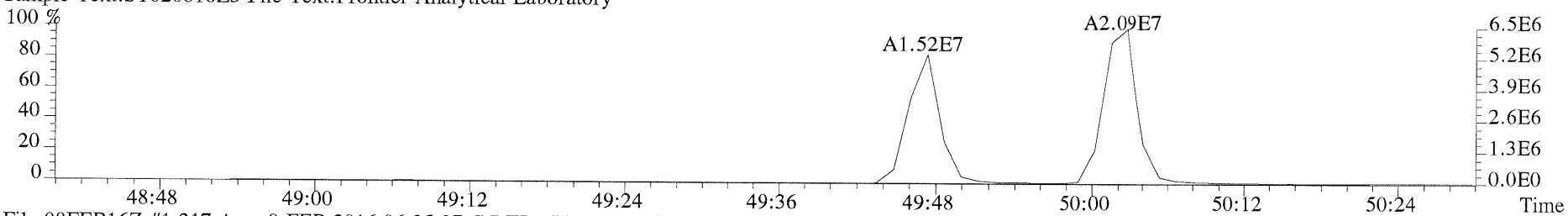
File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



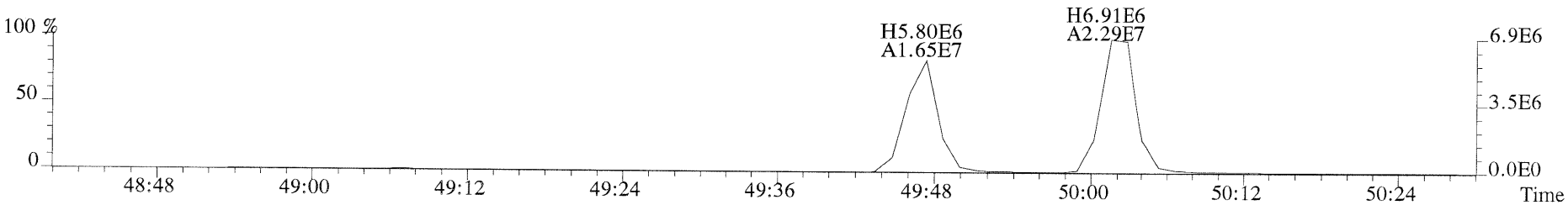
File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



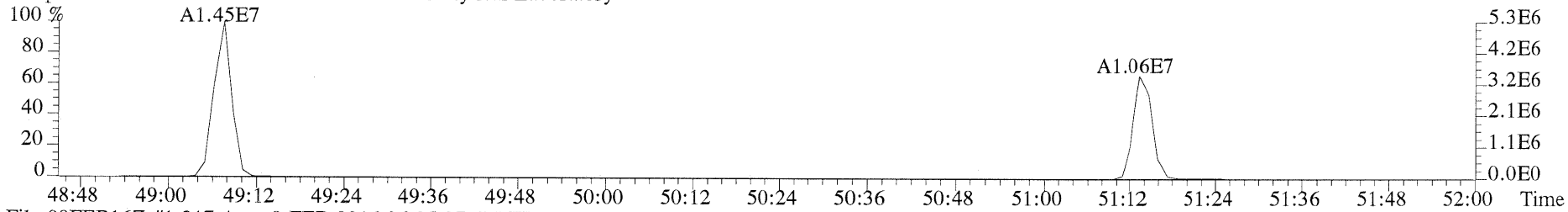
File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



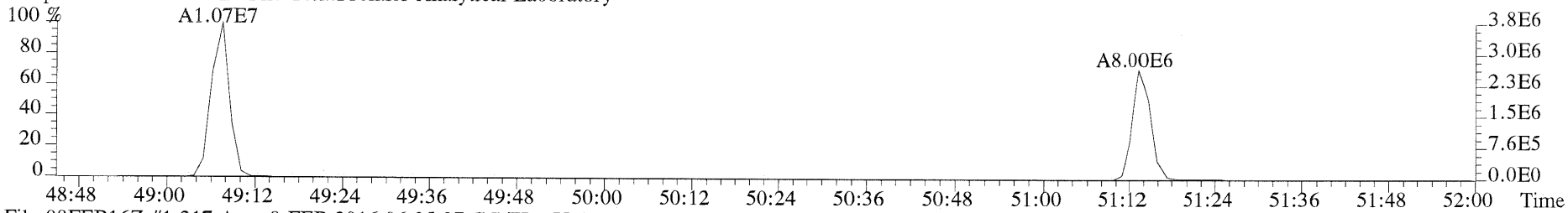
File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



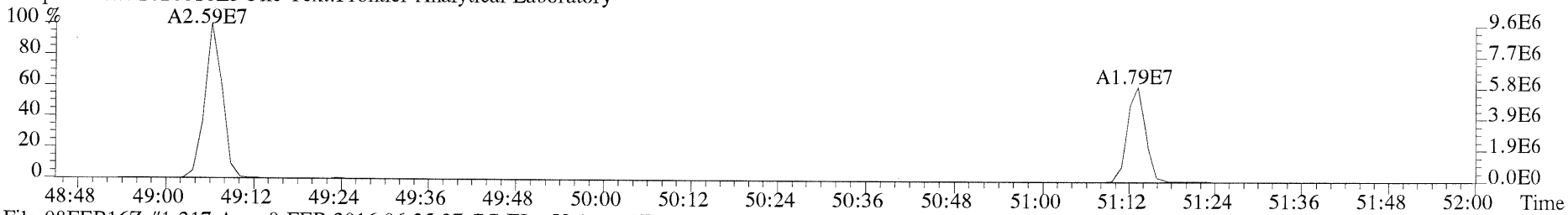
File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



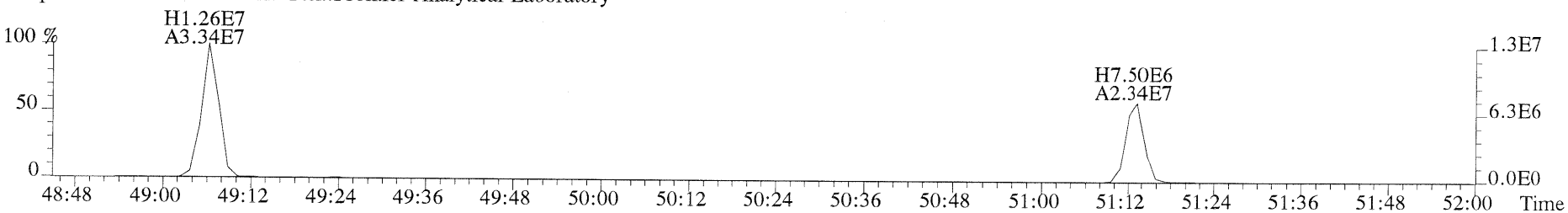
File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



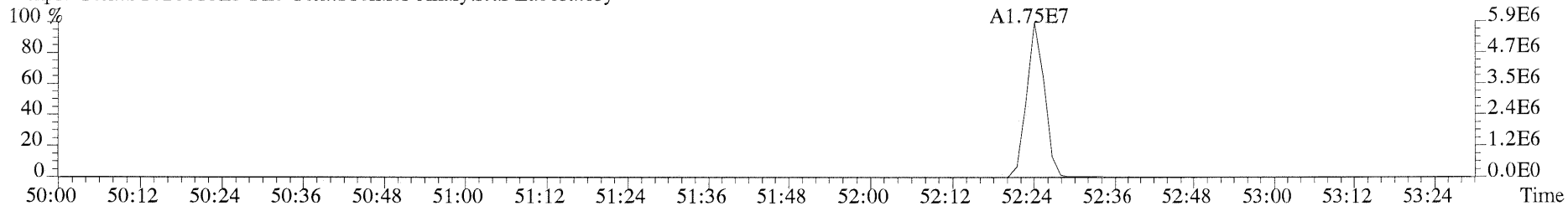
File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



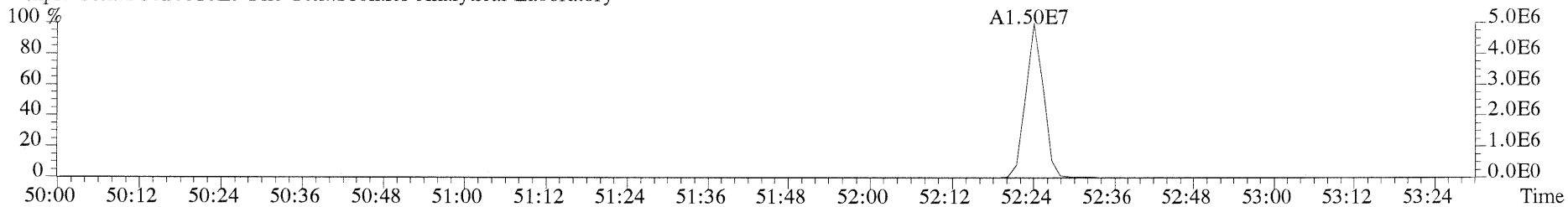
File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



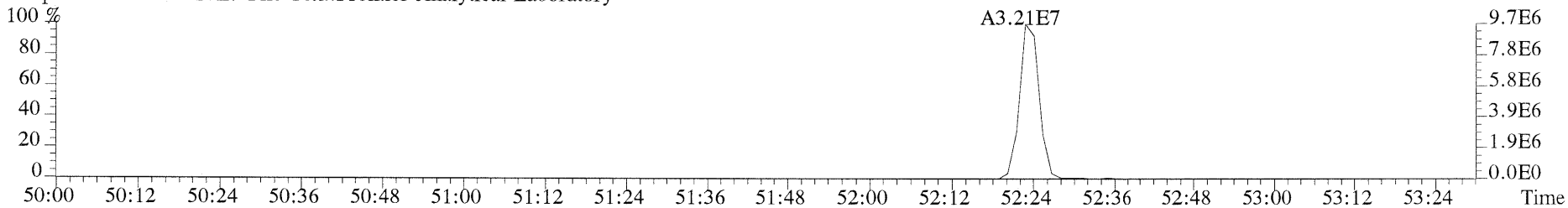
File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



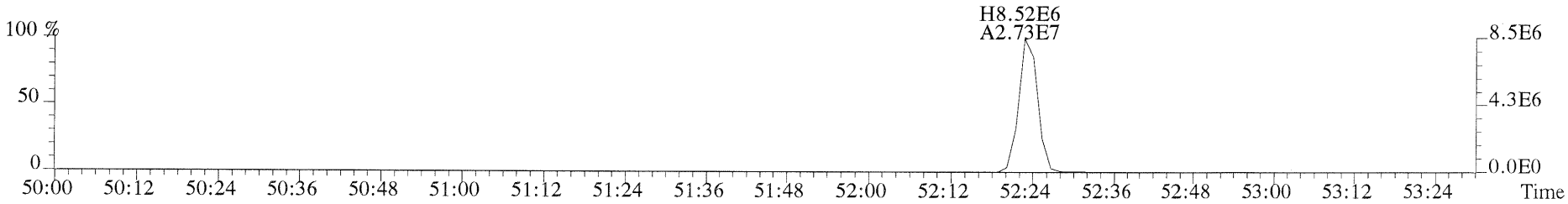
File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



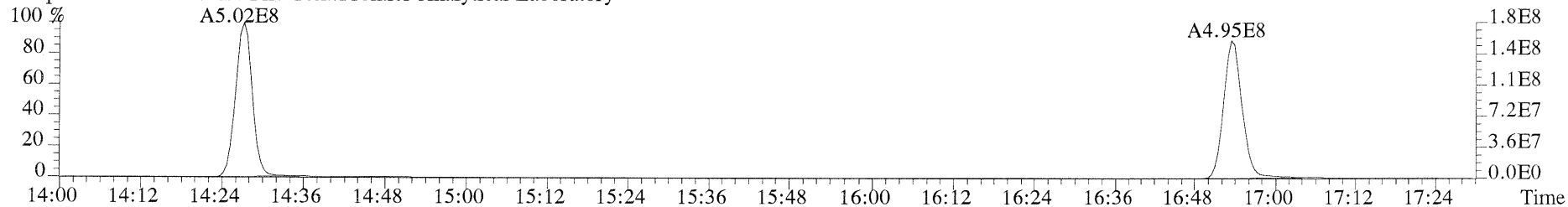
File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



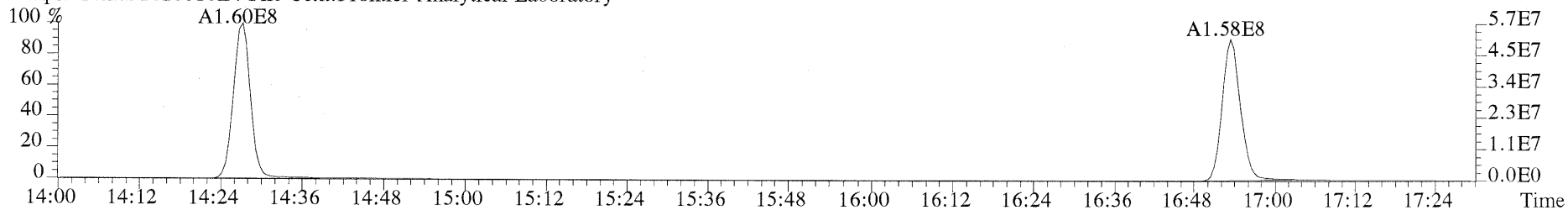
File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z3 File Text:Frontier Analytical Laboratory



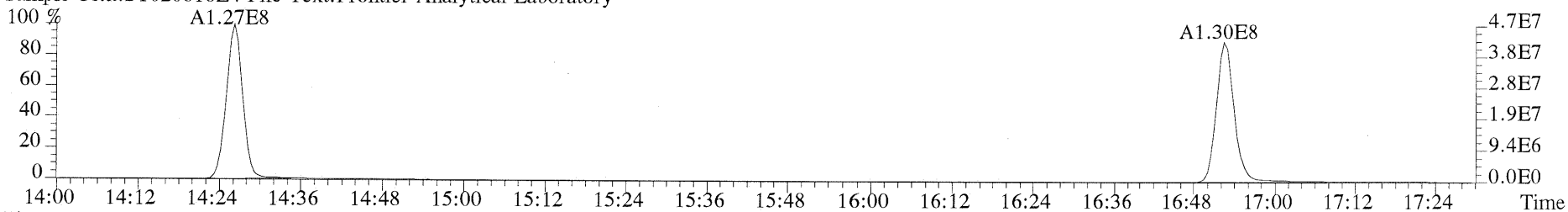
File:08FEB16Z #1-489 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



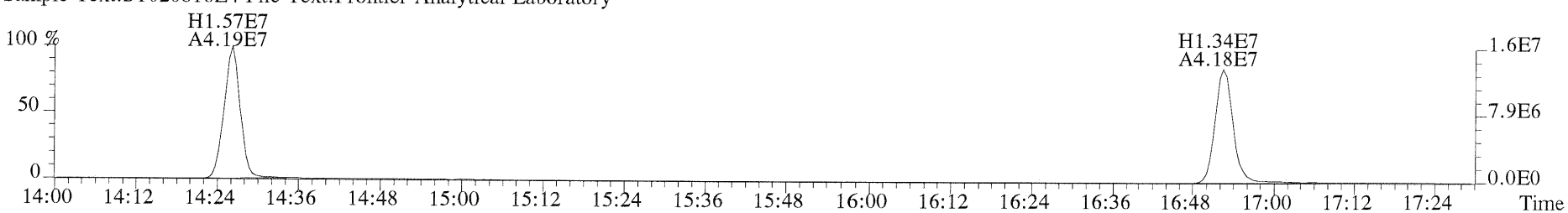
File:08FEB16Z #1-489 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



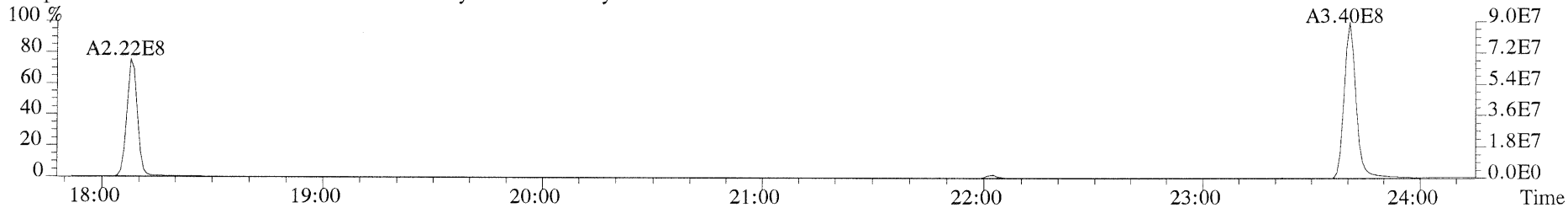
File:08FEB16Z #1-489 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



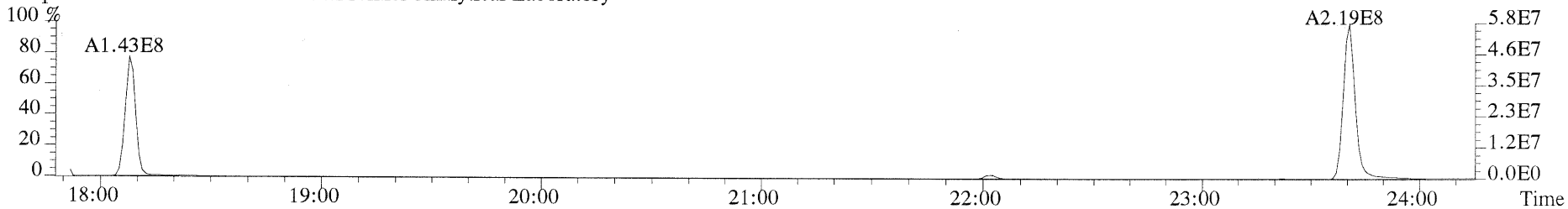
File:08FEB16Z #1-489 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



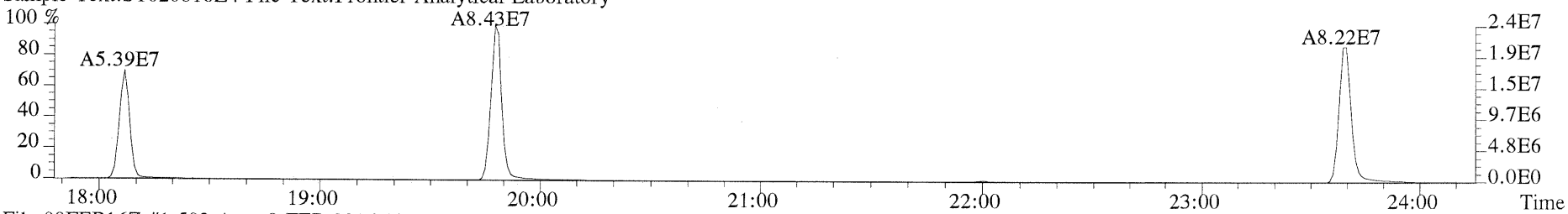
File:08FEB16Z #1-503 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



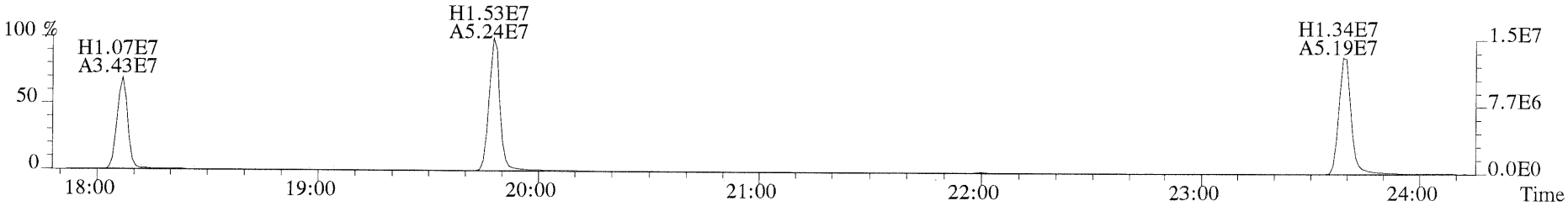
File:08FEB16Z #1-503 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



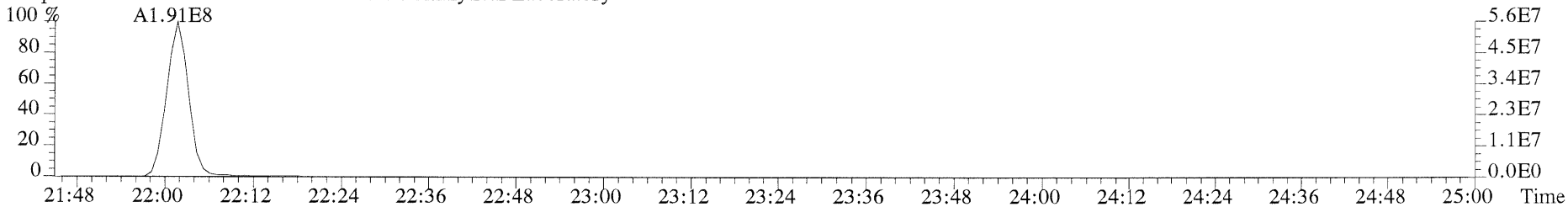
File:08FEB16Z #1-503 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



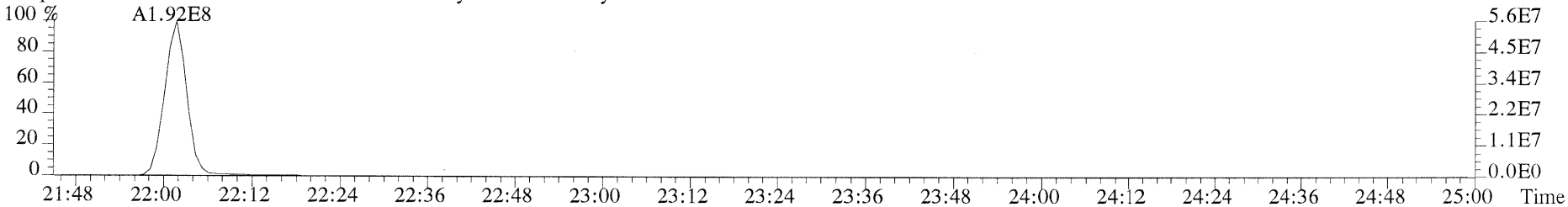
File:08FEB16Z #1-503 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



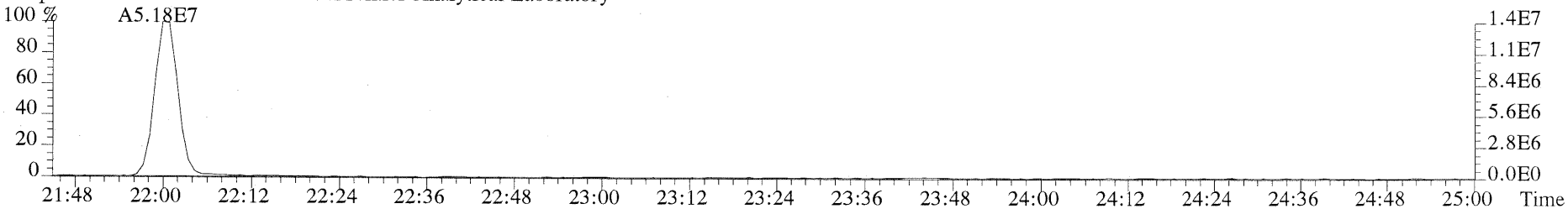
File:08FEB16Z #1-503 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



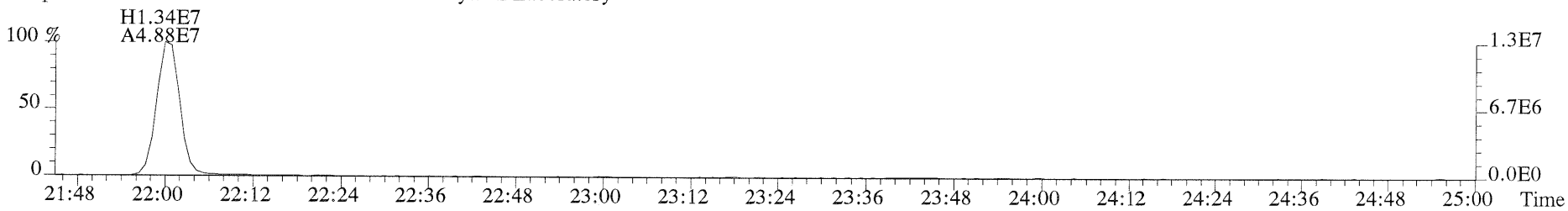
File:08FEB16Z #1-503 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



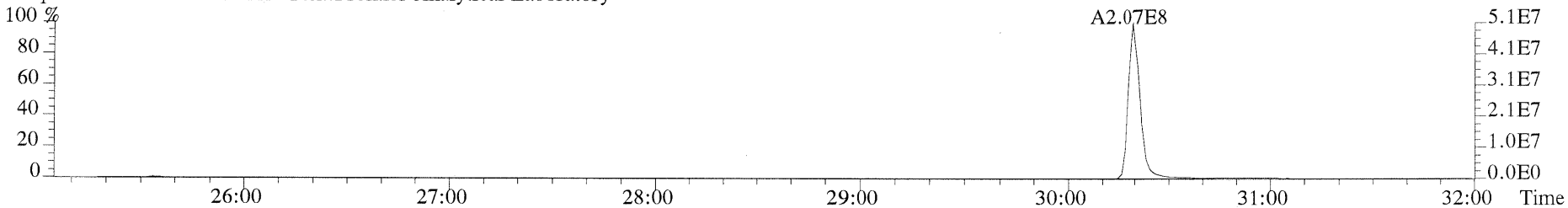
File:08FEB16Z #1-503 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



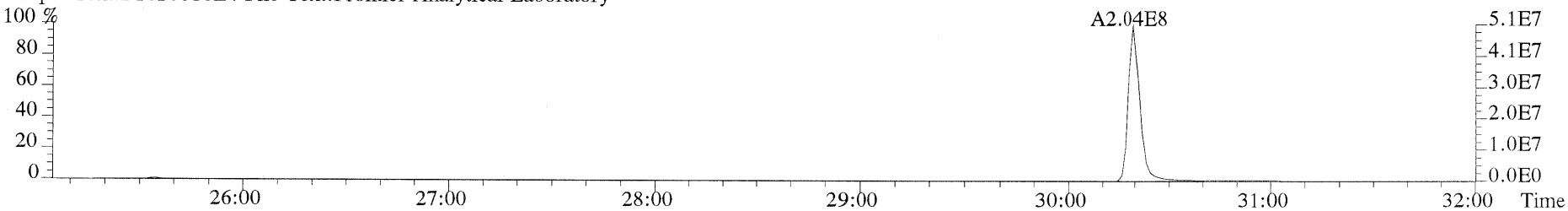
File:08FEB16Z #1-503 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



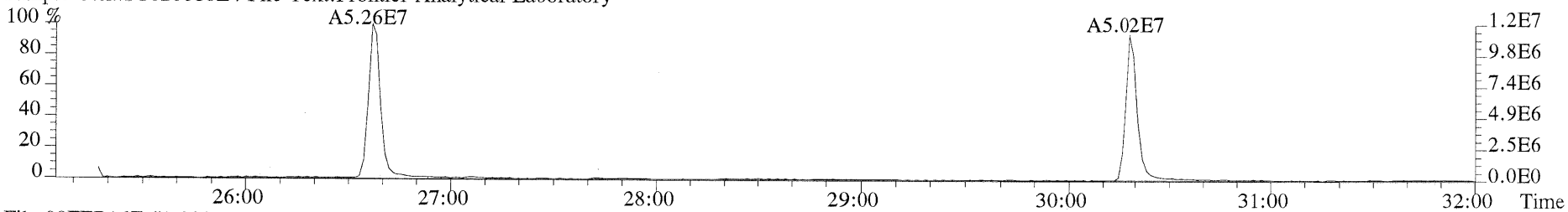
File:08FEB16Z #1-399 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



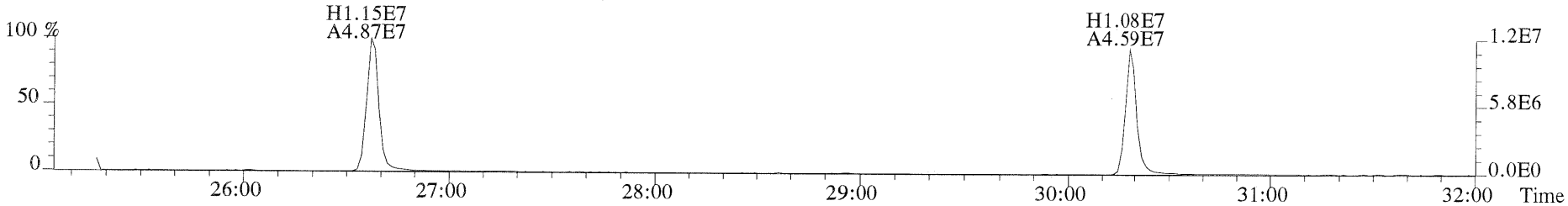
File:08FEB16Z #1-399 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



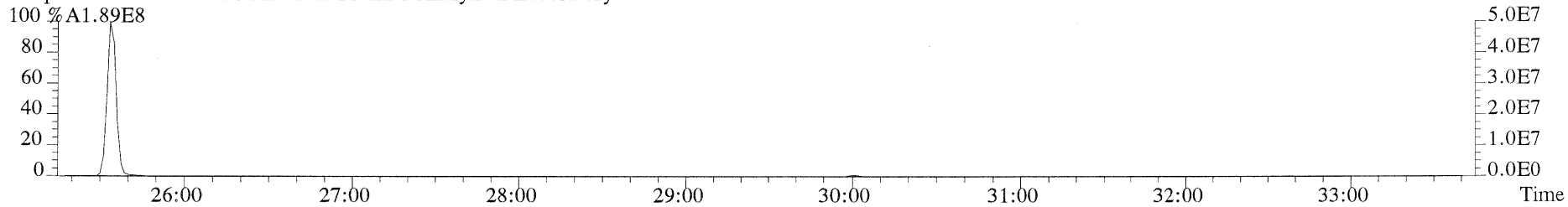
File:08FEB16Z #1-399 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



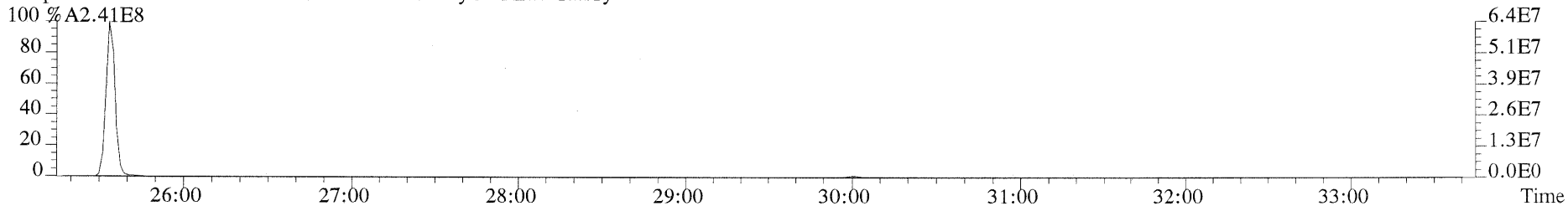
File:08FEB16Z #1-399 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



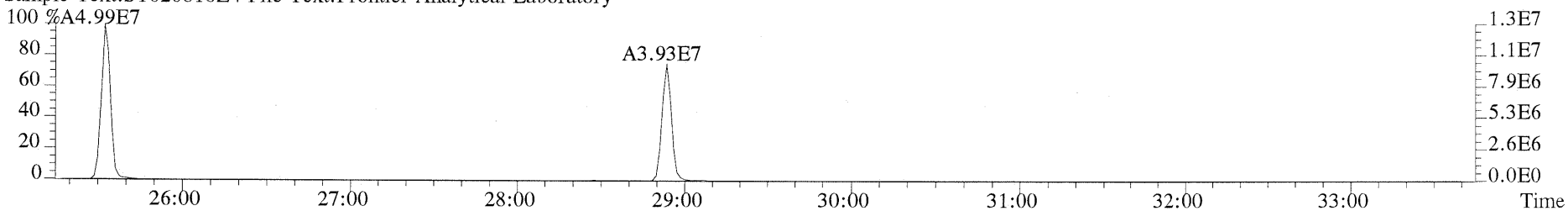
File:08FEB16Z #1-399 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



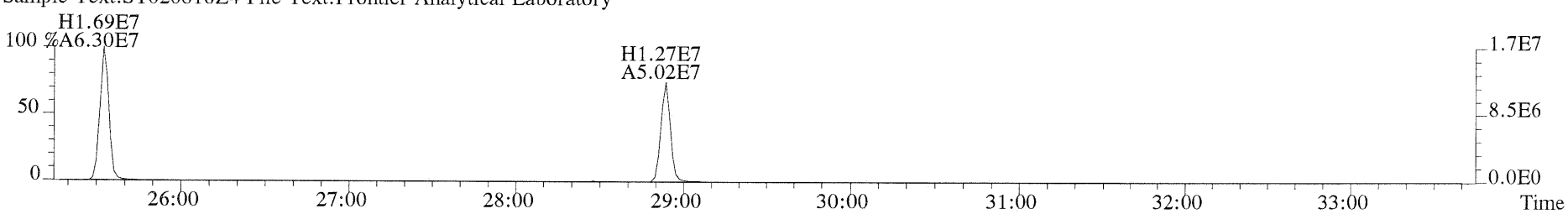
File:08FEB16Z #1-399 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



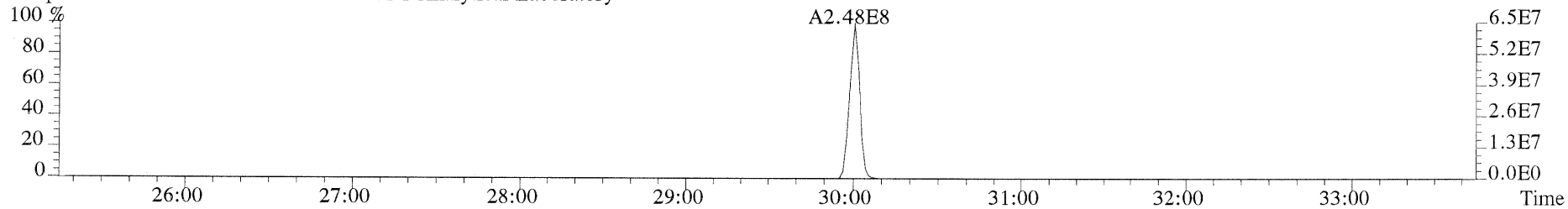
File:08FEB16Z #1-399 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



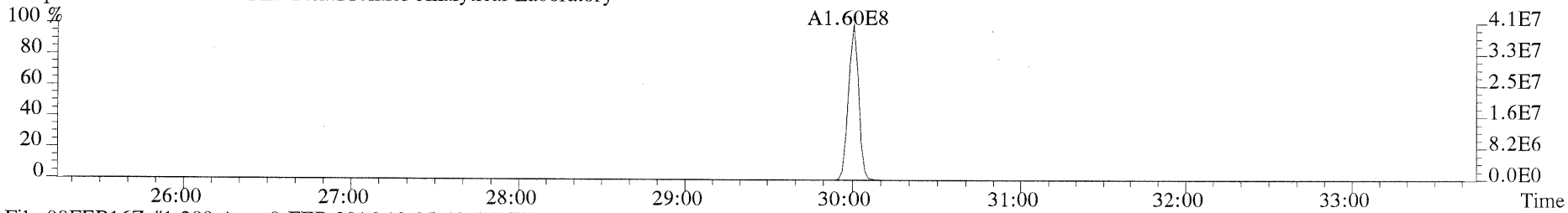
File:08FEB16Z #1-399 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



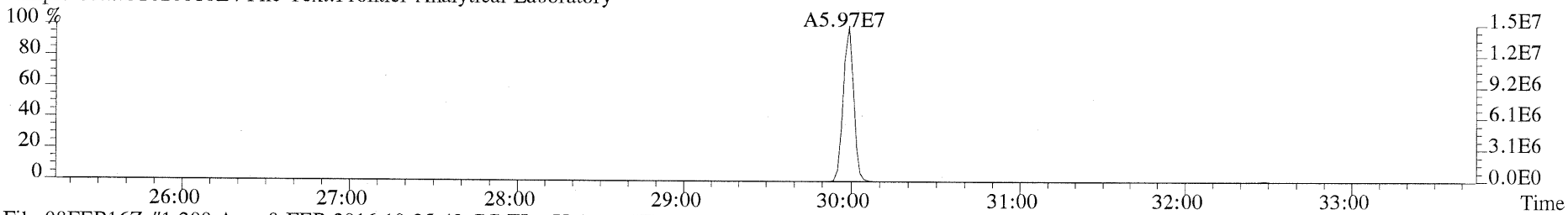
File:08FEB16Z #1-399 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



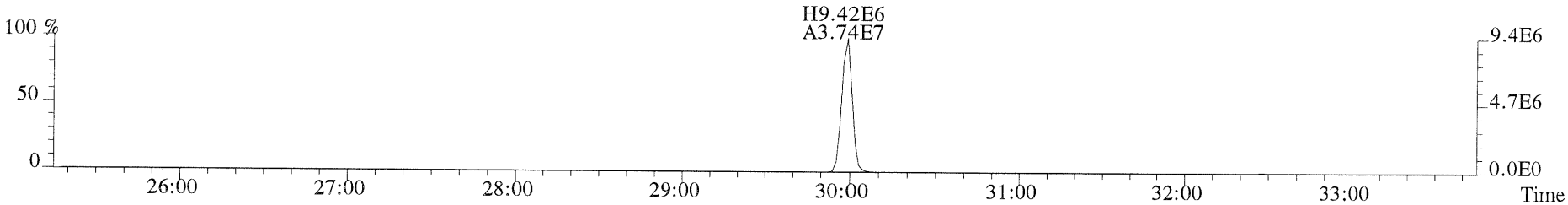
File:08FEB16Z #1-399 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



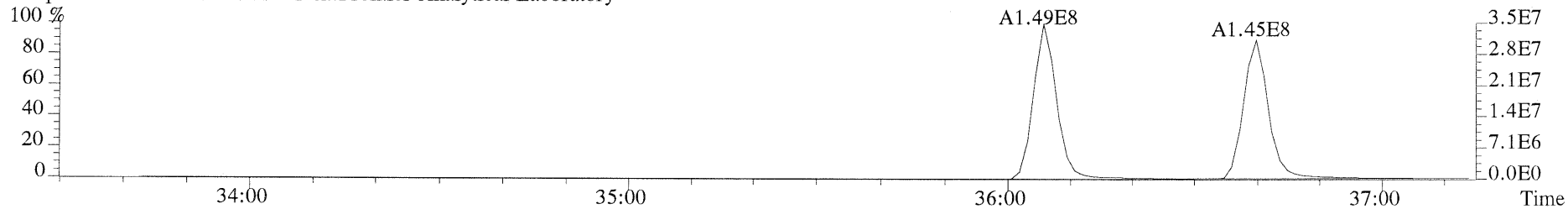
File:08FEB16Z #1-399 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



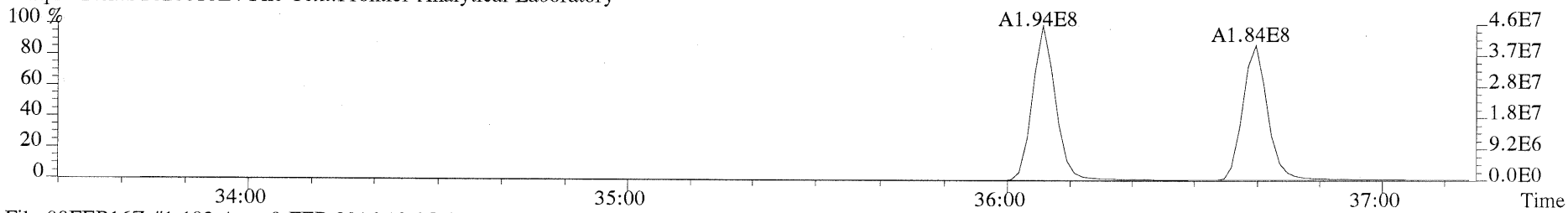
File:08FEB16Z #1-399 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



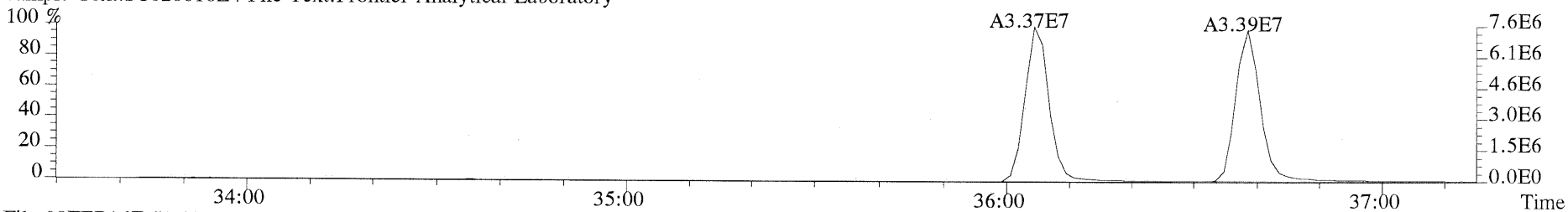
File:08FEB16Z #1-182 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



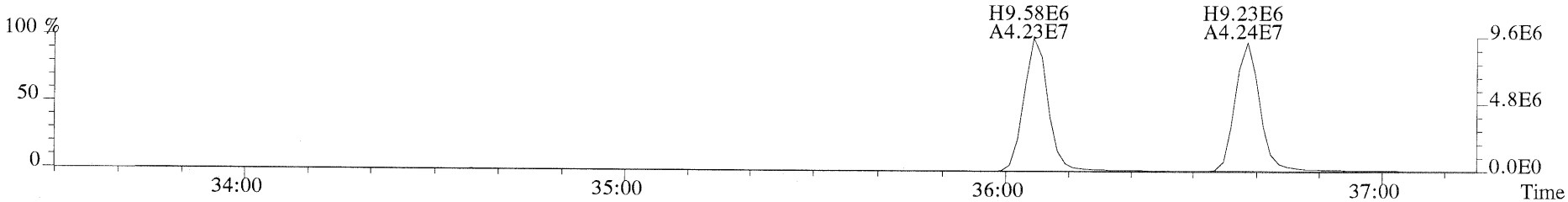
File:08FEB16Z #1-182 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



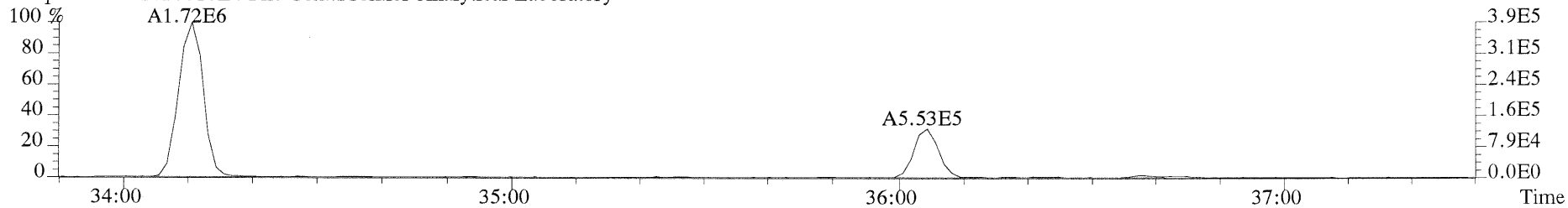
File:08FEB16Z #1-182 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



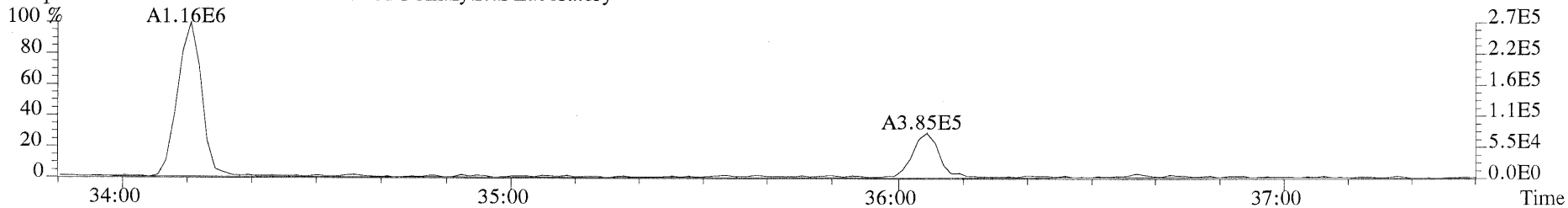
File:08FEB16Z #1-182 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 10:25:42 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:ST020816Z4 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 10:25:42 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:ST020816Z4 File Text:Frontier Analytical Laboratory



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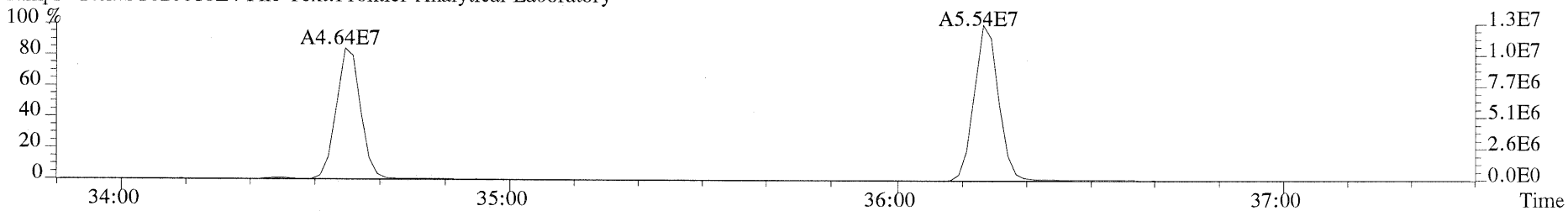
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



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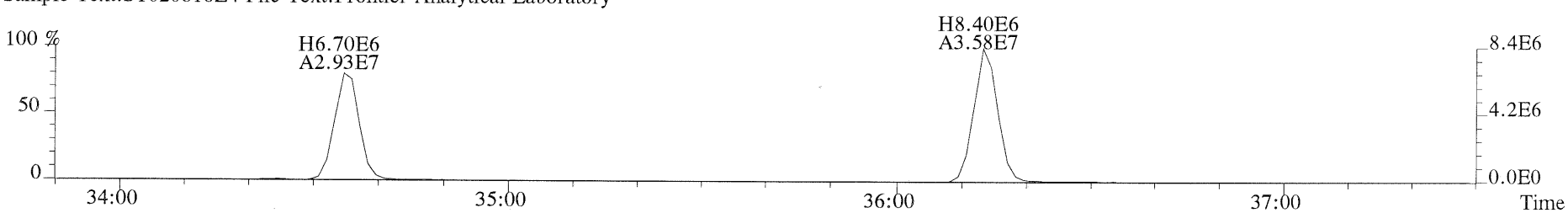
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
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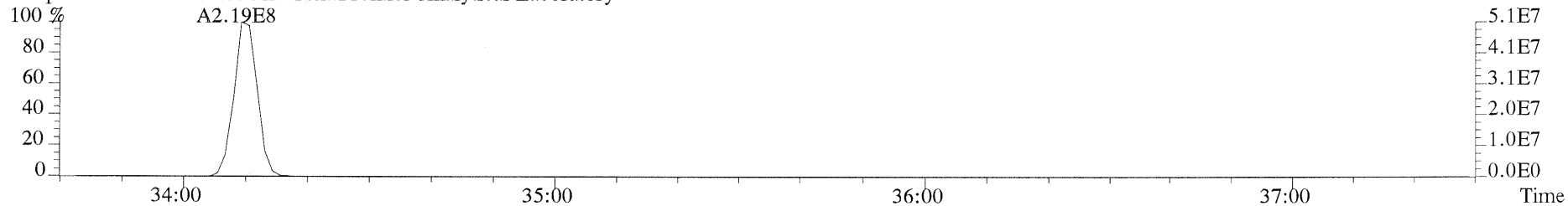
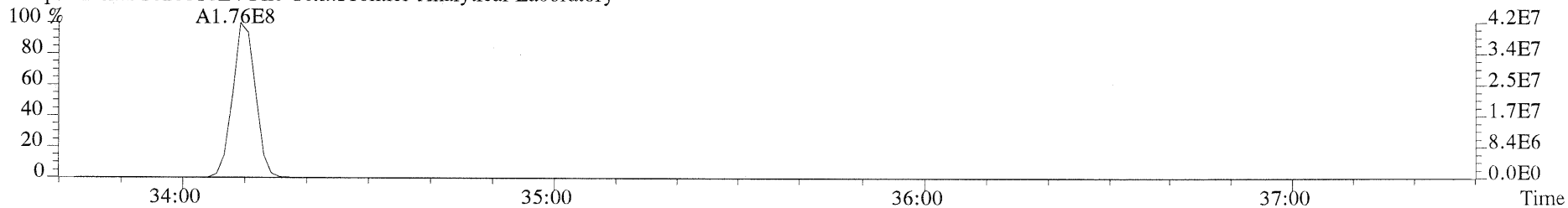
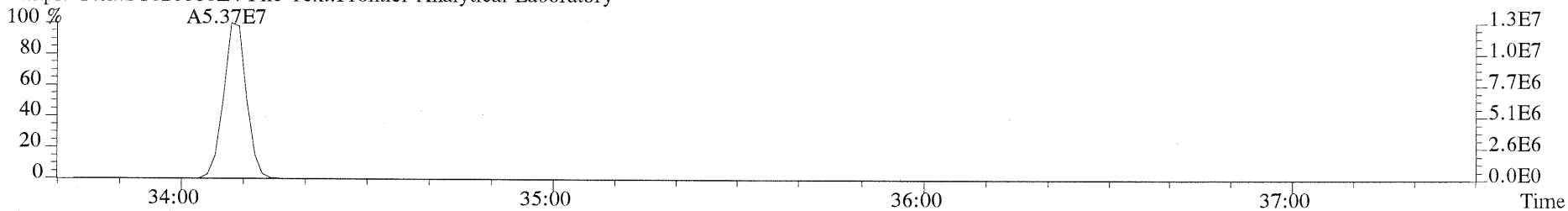
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



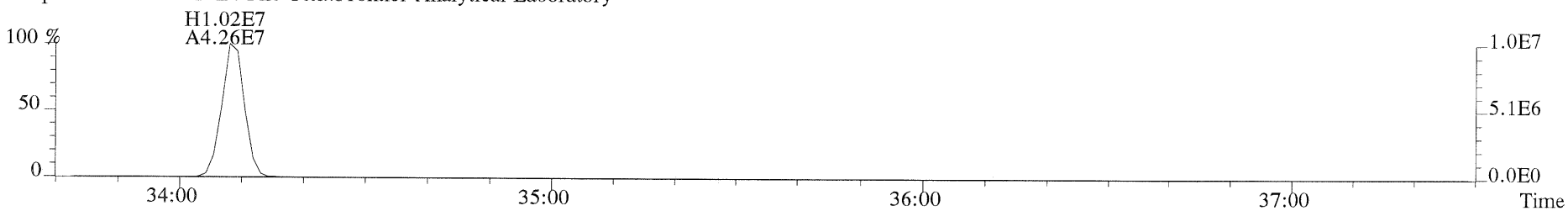
File:08FEB16Z #1-182 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



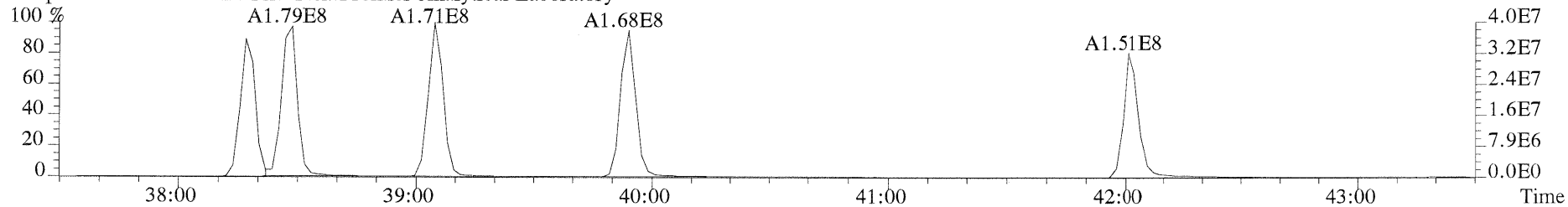
File:08FEB16Z #1-182 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



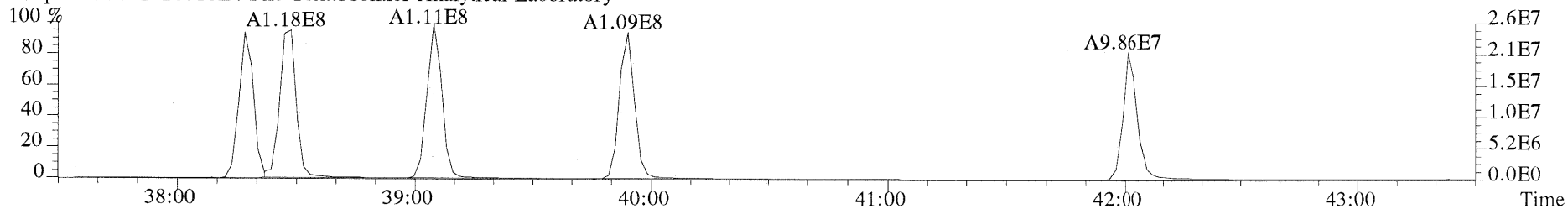
File:08FEB16Z #1-182 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



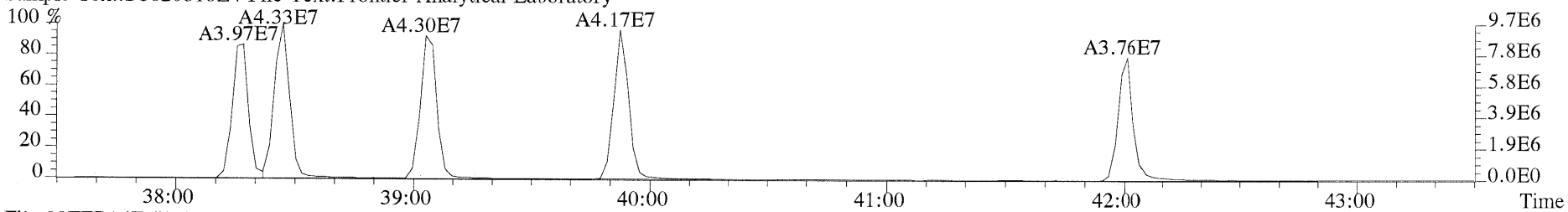
File:08FEB16Z #1-412 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



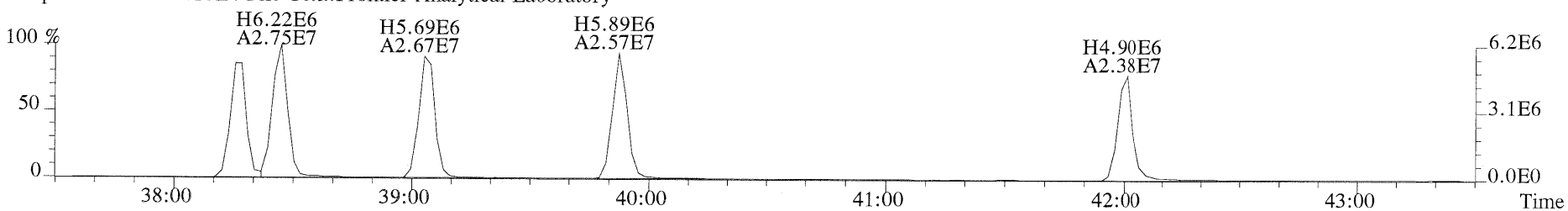
File:08FEB16Z #1-412 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



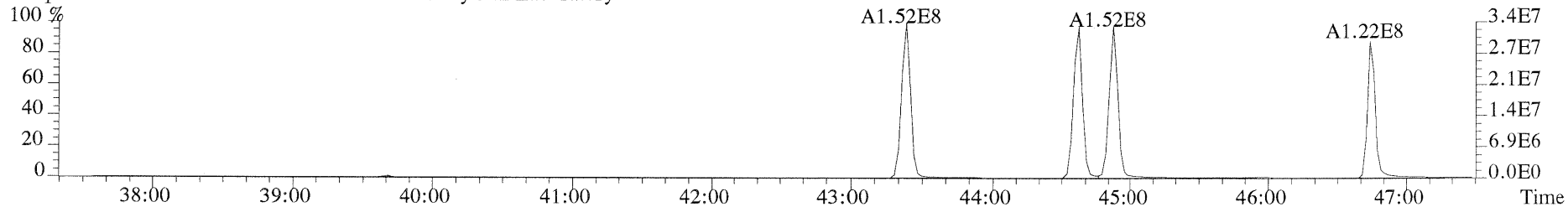
File:08FEB16Z #1-412 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



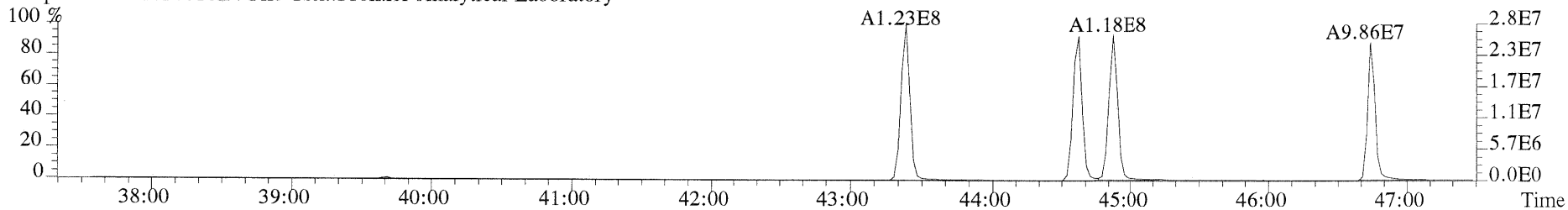
File:08FEB16Z #1-412 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



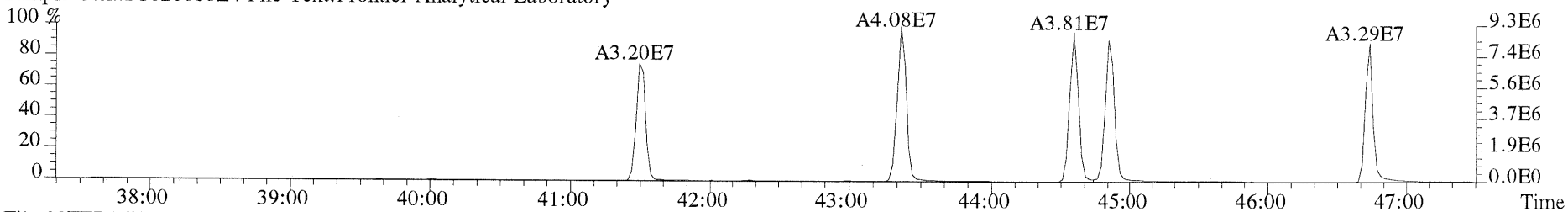
File:08FEB16Z #1-412 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-412 Acq: 8-FEB-2016 10:25:42 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:ST020816Z4 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-412 Acq: 8-FEB-2016 10:25:42 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:ST020816Z4 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-412 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
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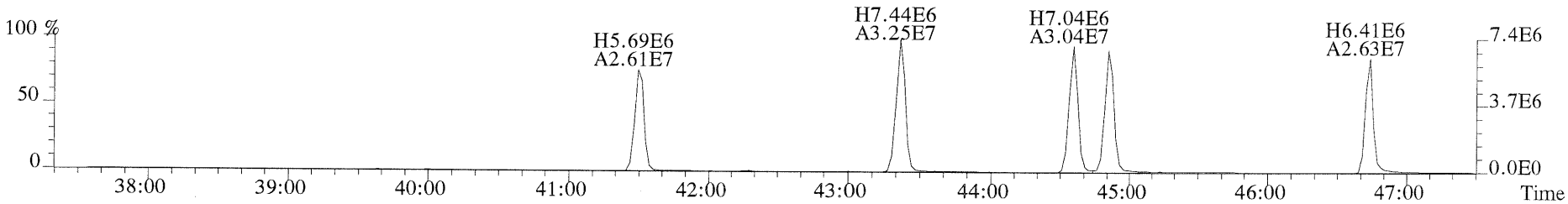
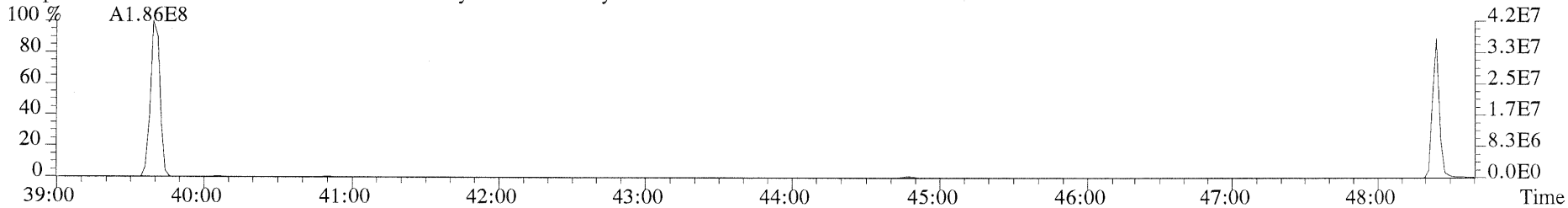
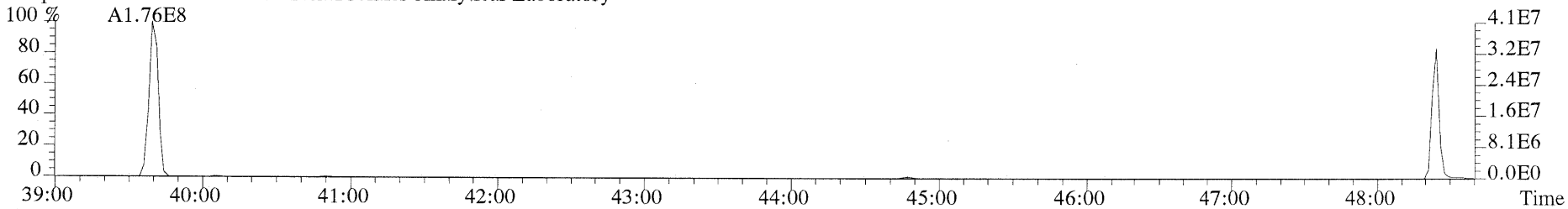
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



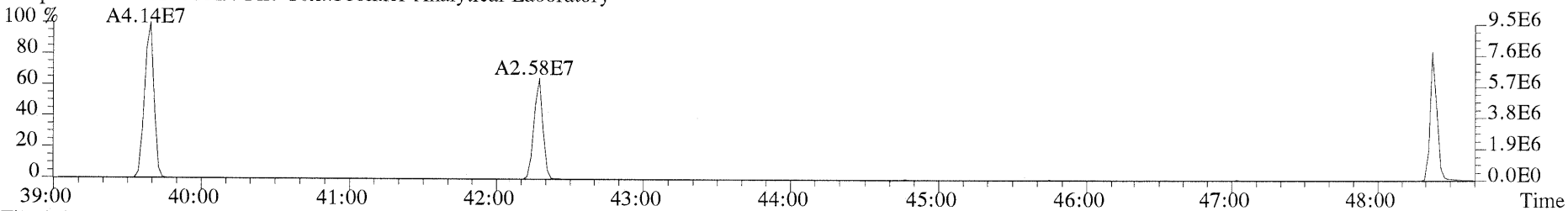
File:08FEB16Z #1-412 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



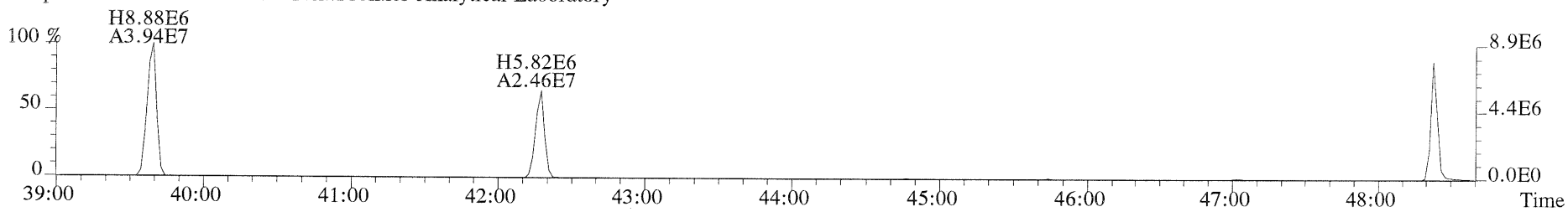
File:08FEB16Z #1-412 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



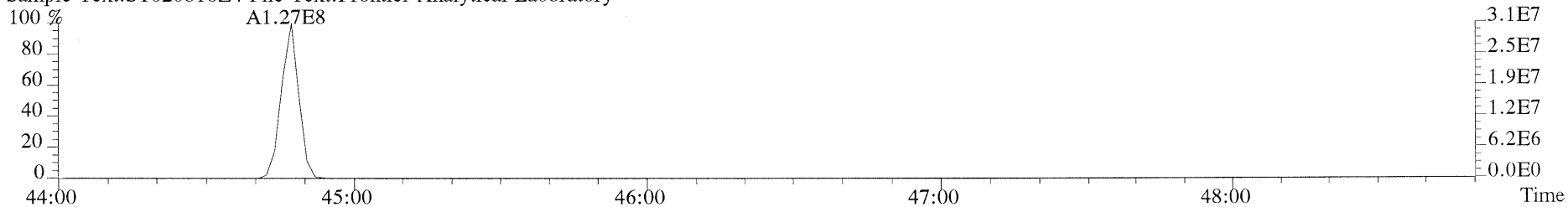
File:08FEB16Z #1-412 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



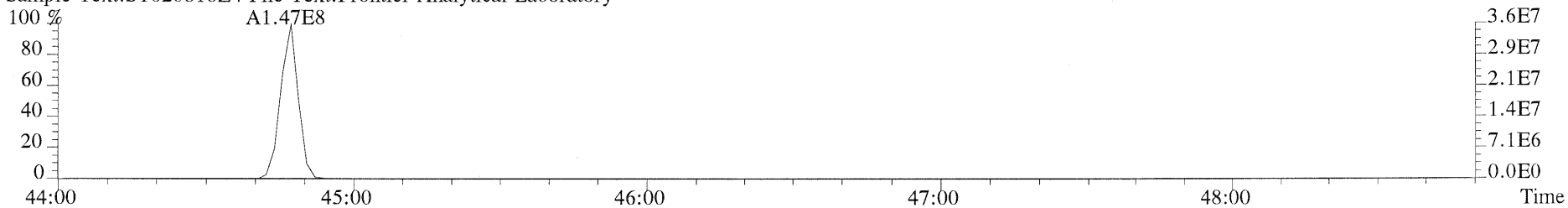
File:08FEB16Z #1-412 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



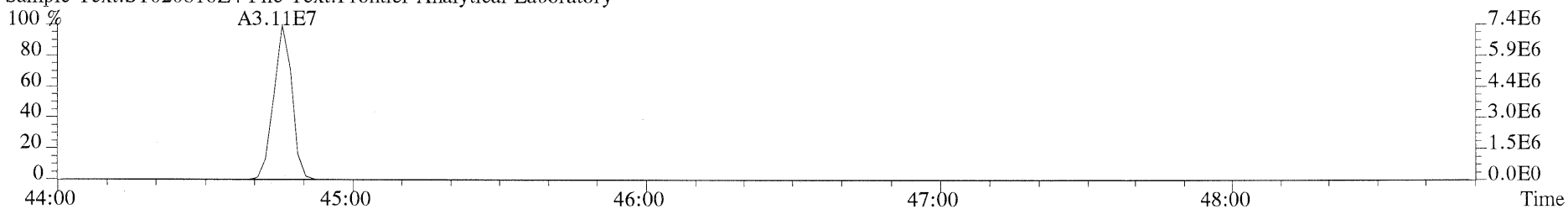
File:08FEB16Z #1-412 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



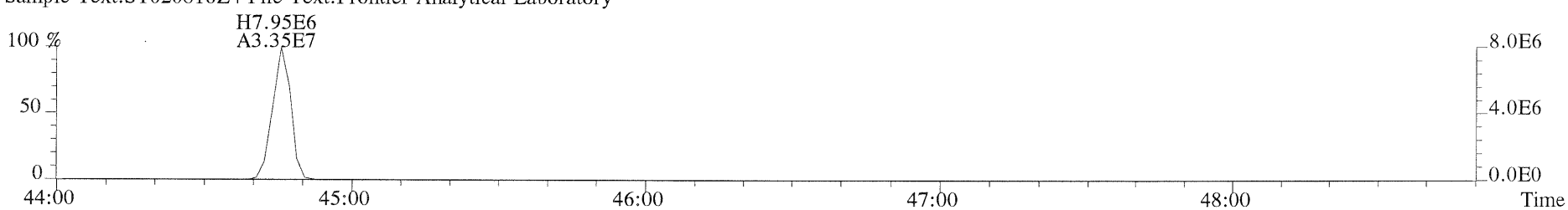
File:08FEB16Z #1-412 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



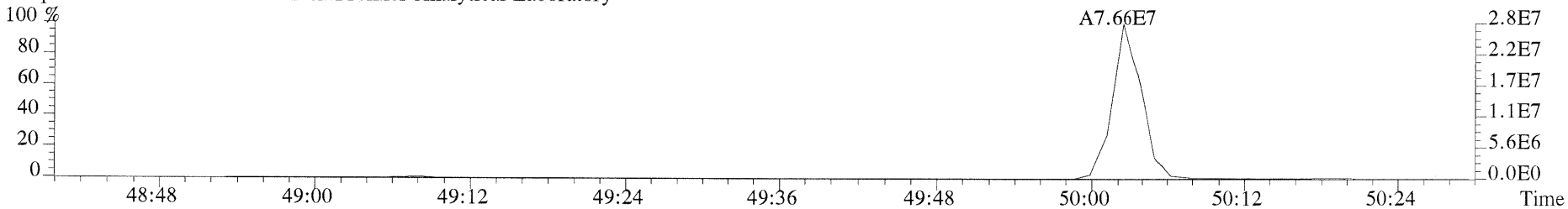
File:08FEB16Z #1-412 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



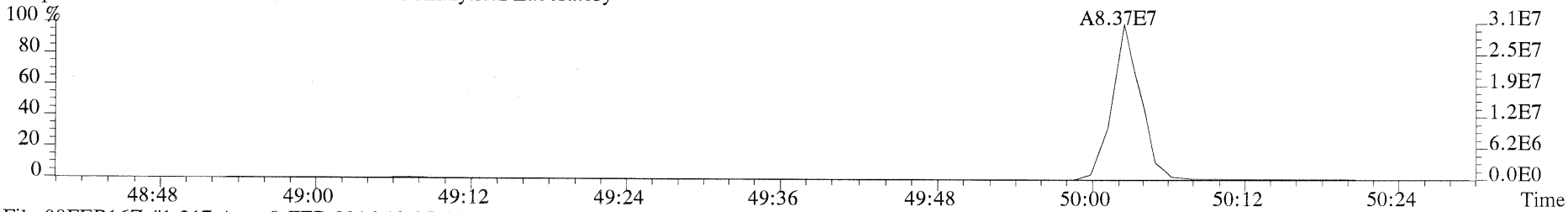
File:08FEB16Z #1-412 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



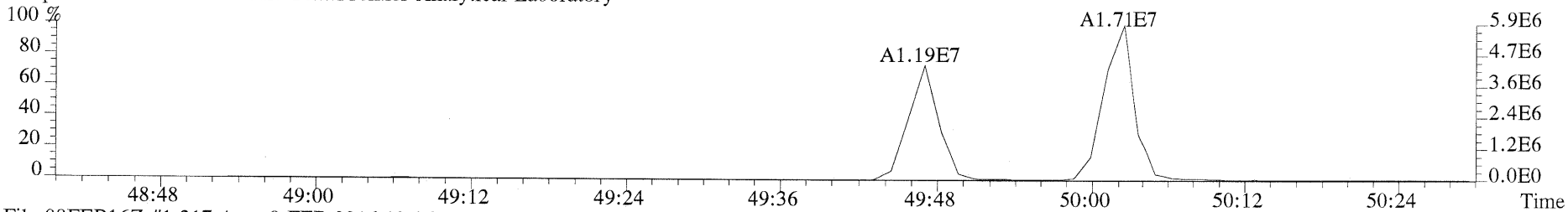
File:08FEB16Z #1-217 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



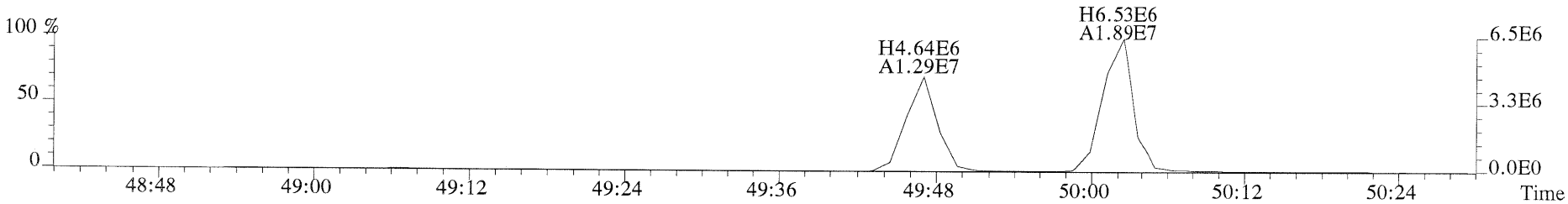
File:08FEB16Z #1-217 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



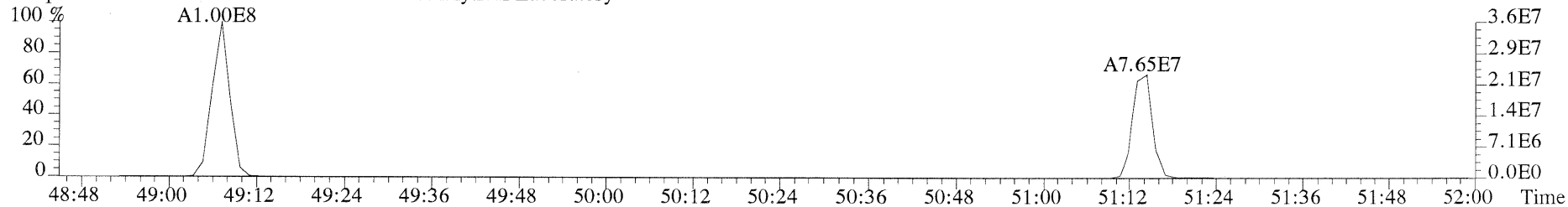
File:08FEB16Z #1-217 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



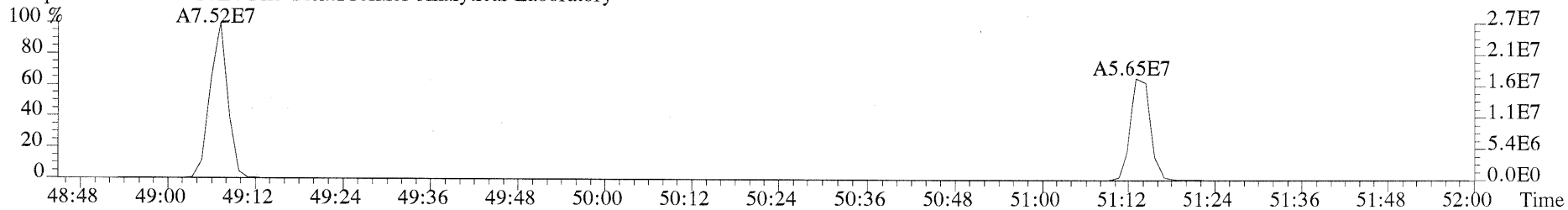
File:08FEB16Z #1-217 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



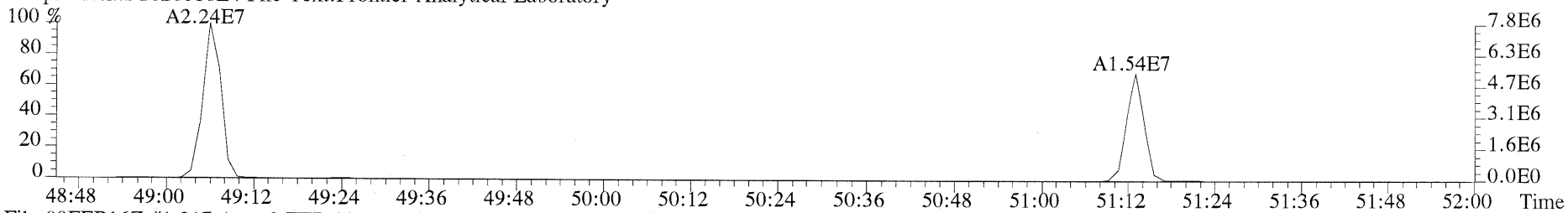
File:08FEB16Z #1-217 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



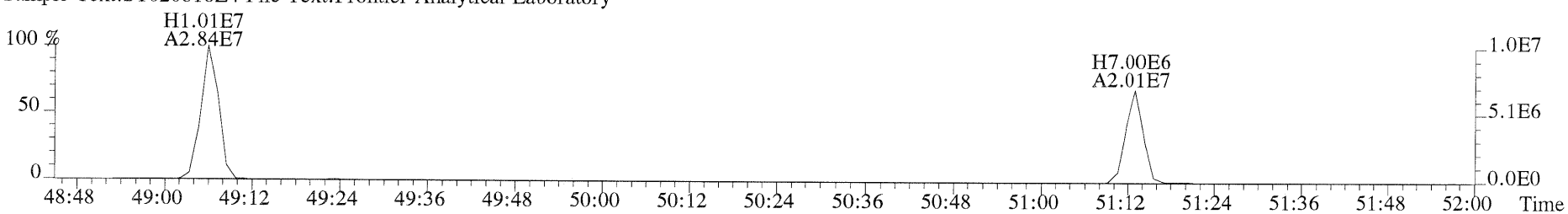
File:08FEB16Z #1-217 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



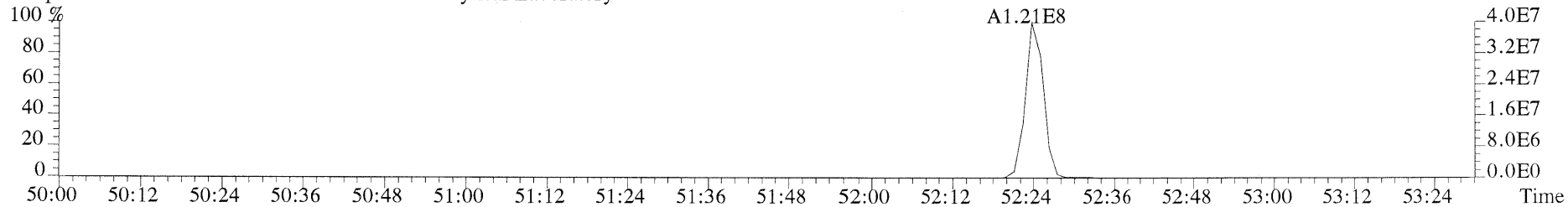
File:08FEB16Z #1-217 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



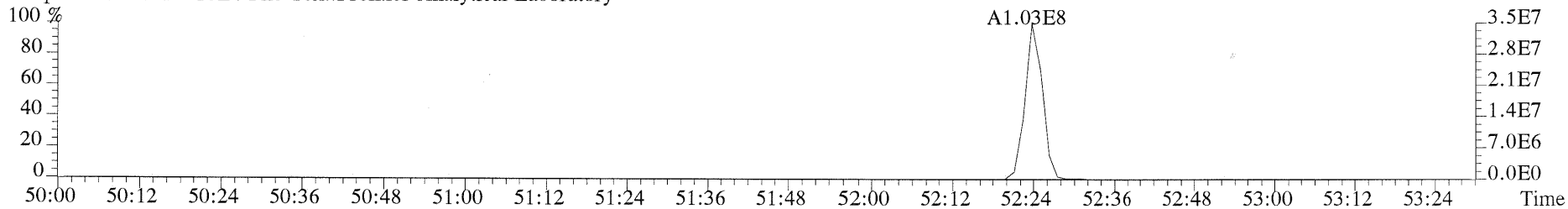
File:08FEB16Z #1-217 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



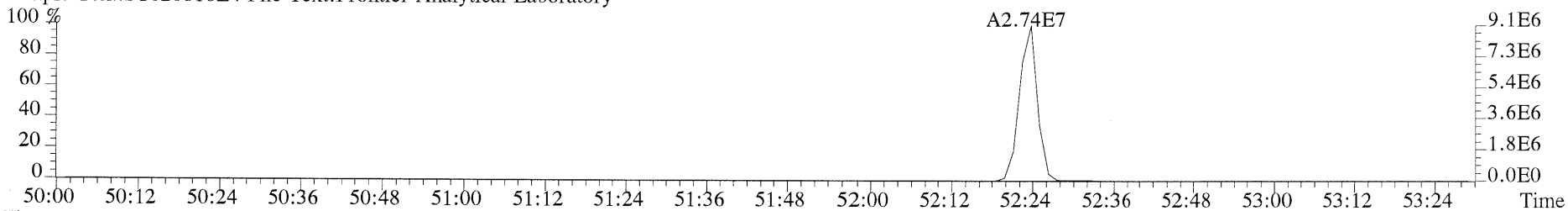
File:08FEB16Z #1-217 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



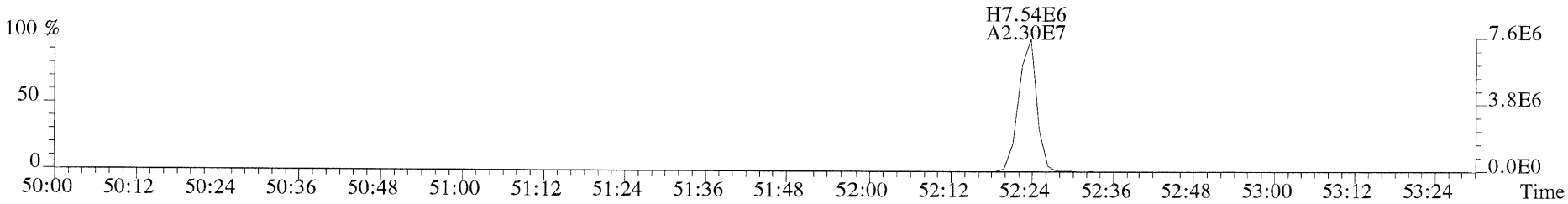
File:08FEB16Z #1-217 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



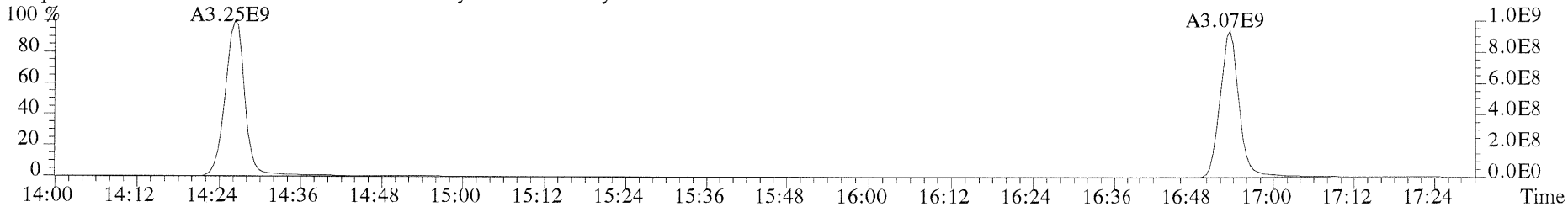
File:08FEB16Z #1-217 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



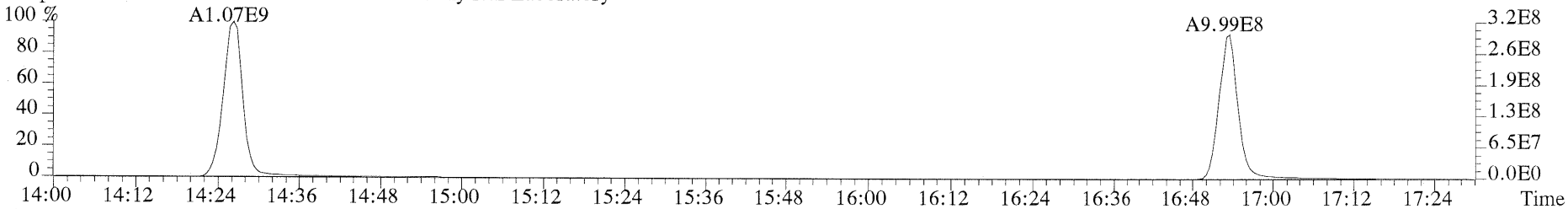
File:08FEB16Z #1-217 Acq: 8-FEB-2016 10:25:42 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z4 File Text:Frontier Analytical Laboratory



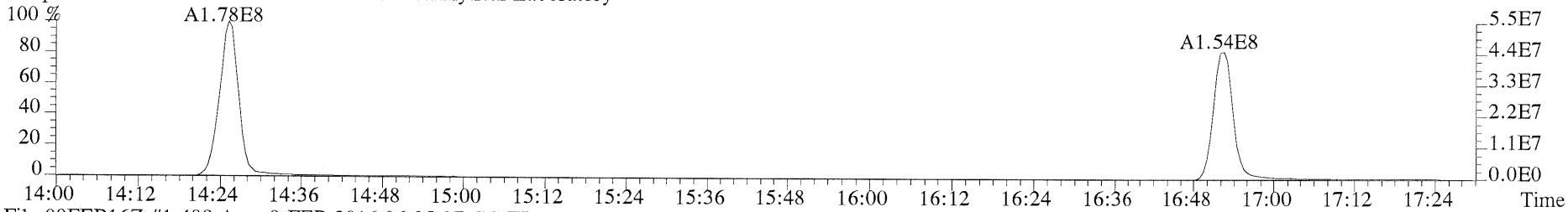
File:08FEB16Z #1-489 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



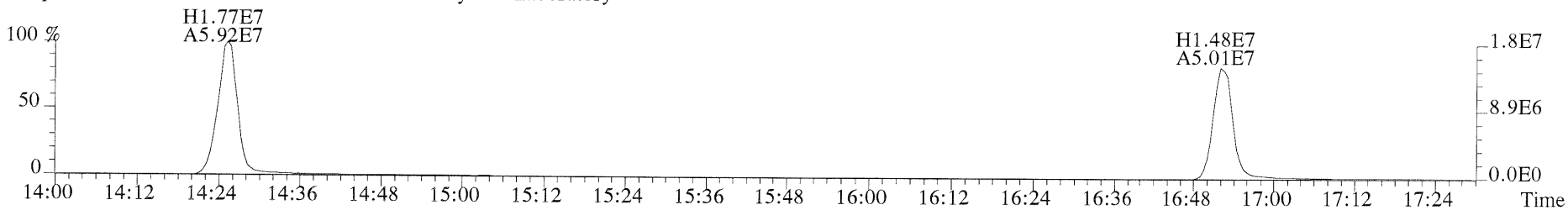
File:08FEB16Z #1-489 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



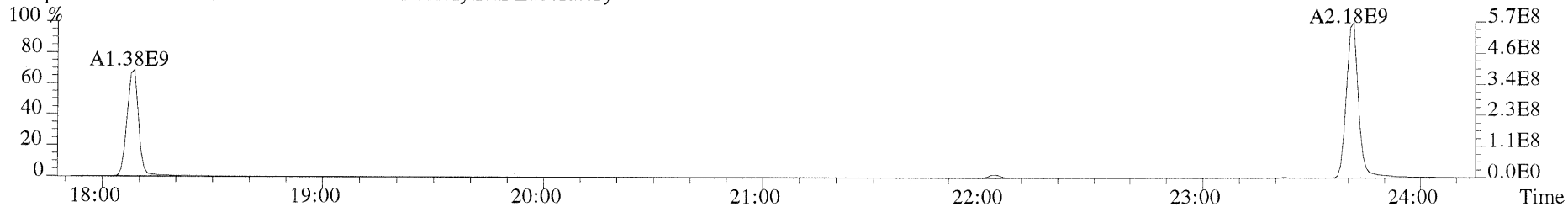
File:08FEB16Z #1-489 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



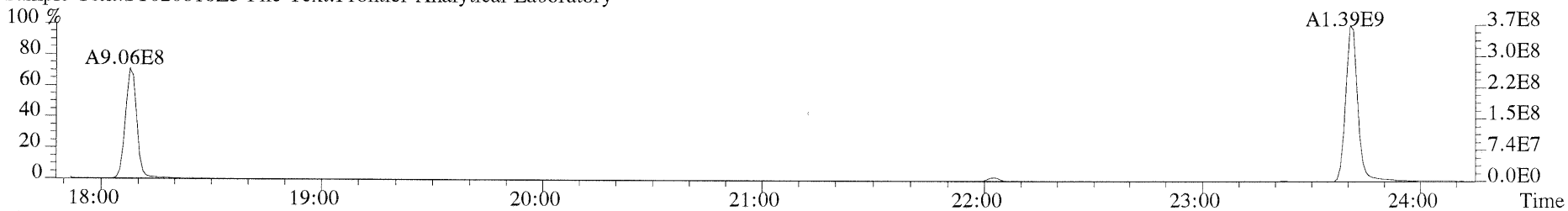
File:08FEB16Z #1-489 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



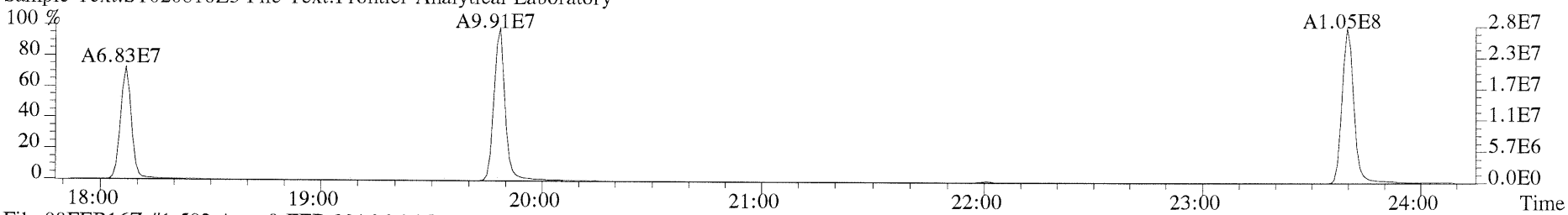
File:08FEB16Z #1-503 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



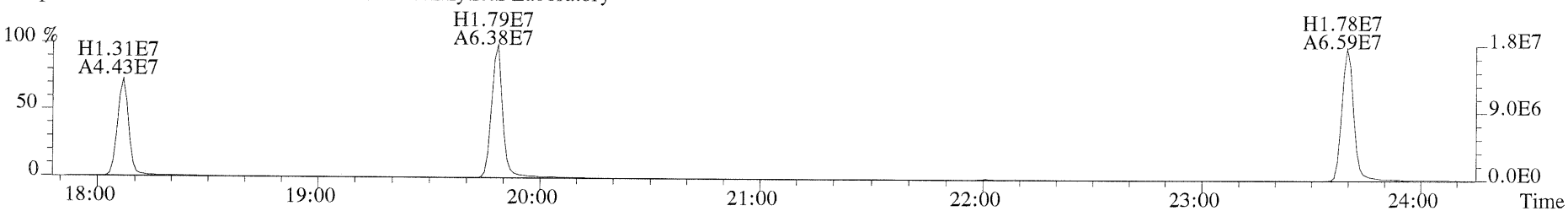
File:08FEB16Z #1-503 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



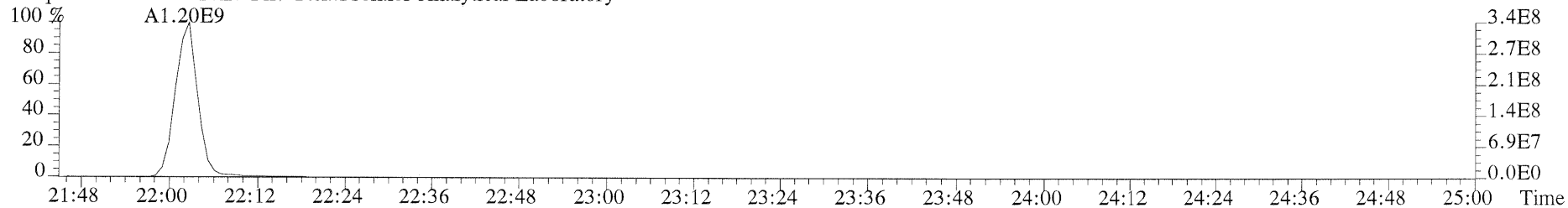
File:08FEB16Z #1-503 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



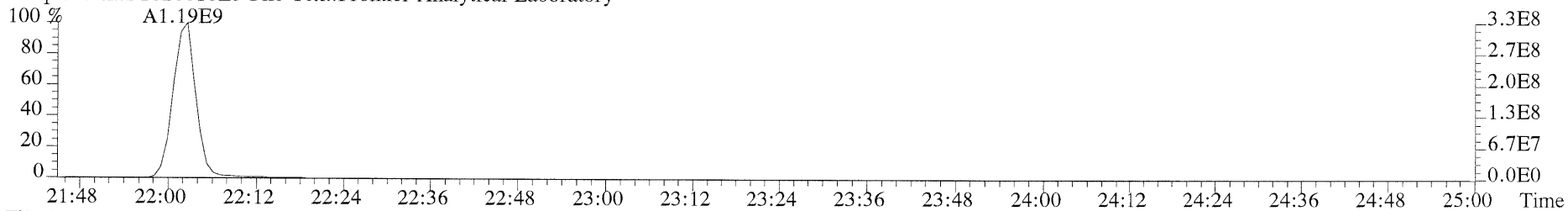
File:08FEB16Z #1-503 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



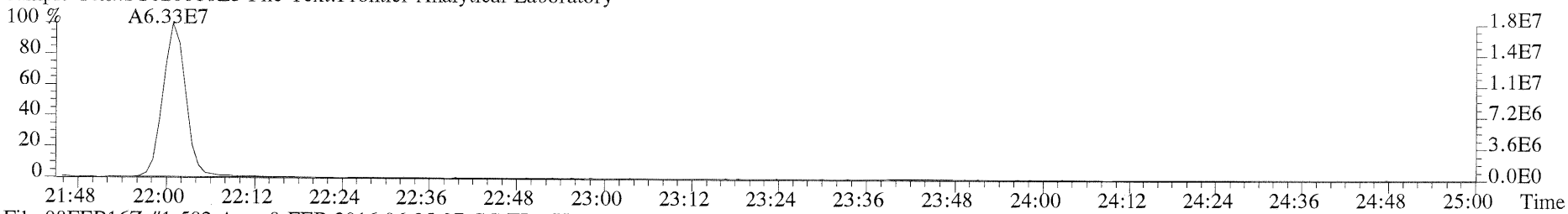
File:08FEB16Z #1-503 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



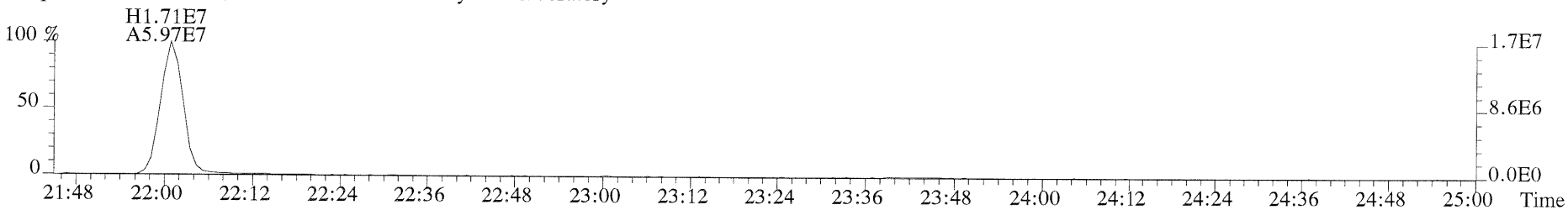
File:08FEB16Z #1-503 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



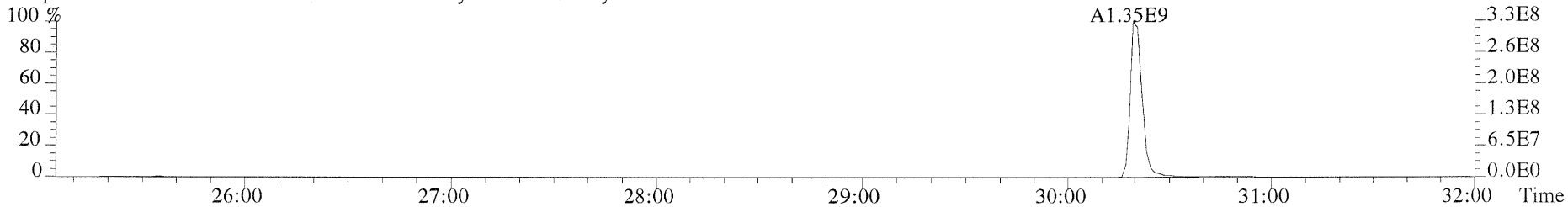
File:08FEB16Z #1-503 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



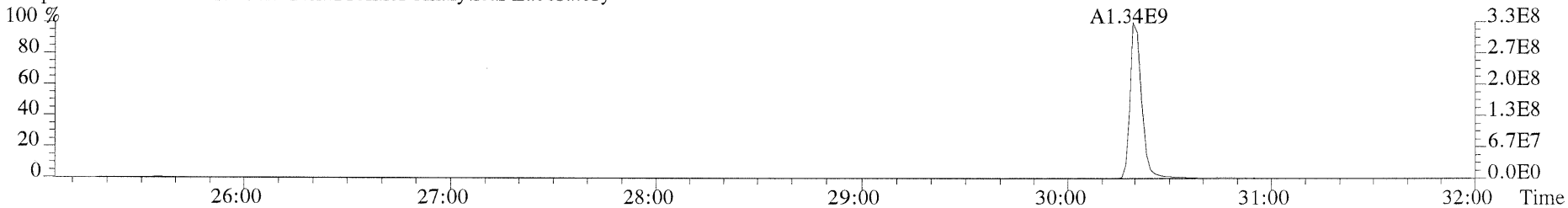
File:08FEB16Z #1-503 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



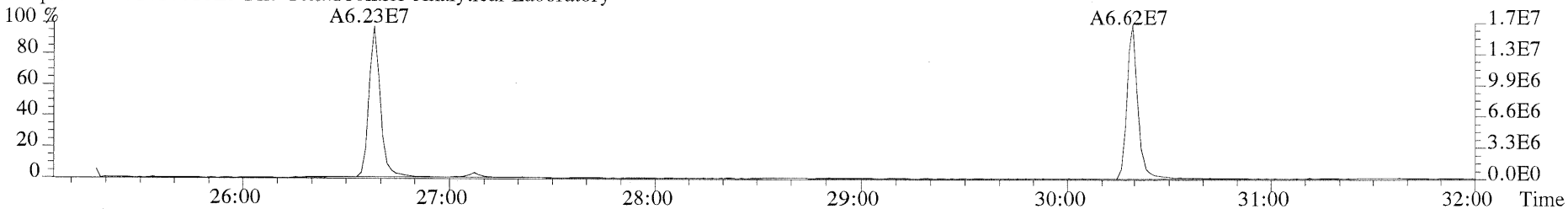
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



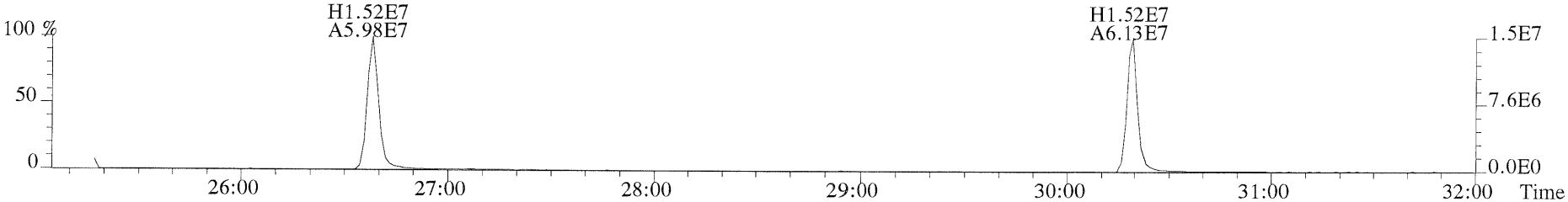
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



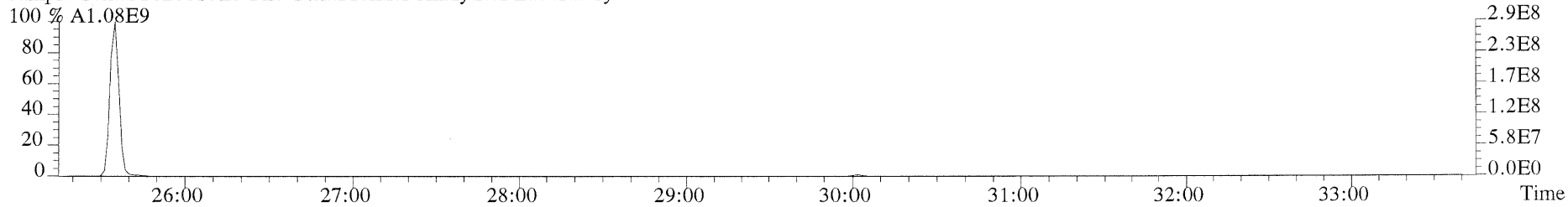
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



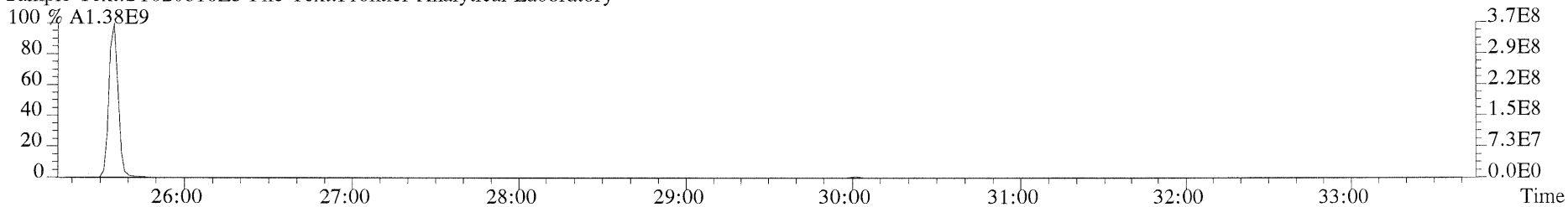
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



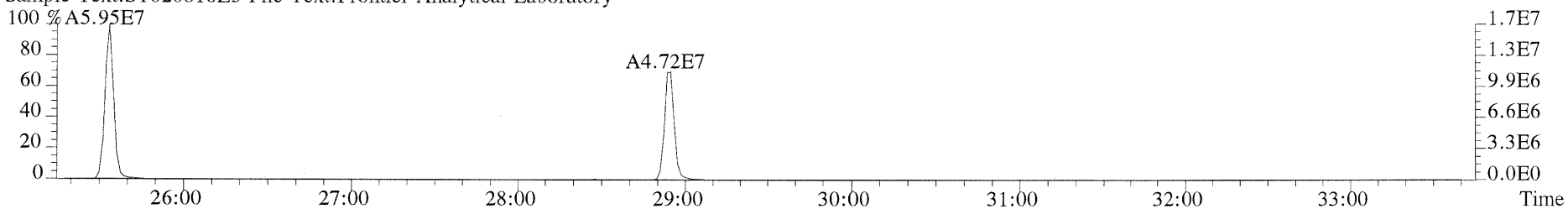
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



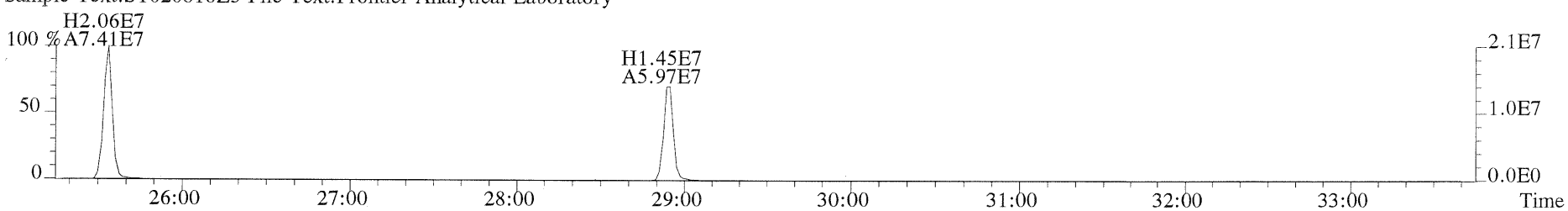
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



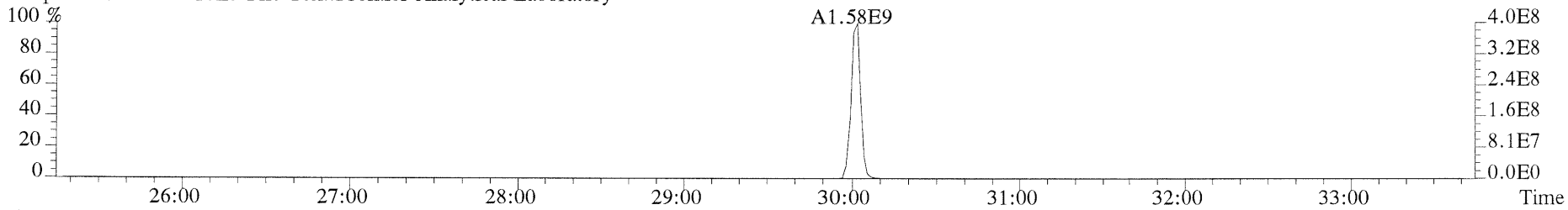
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



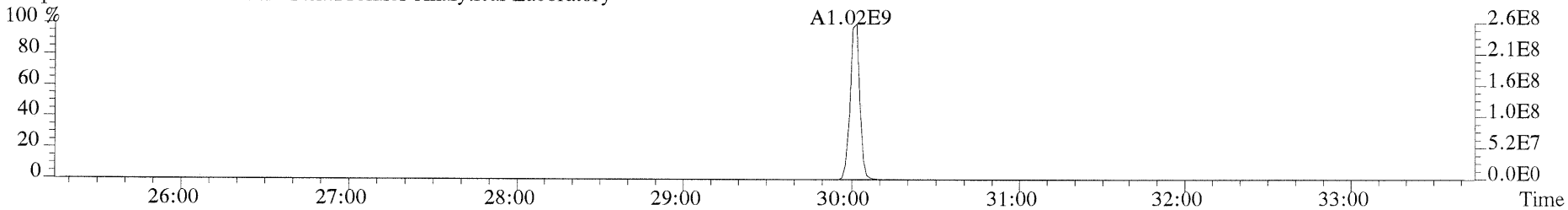
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



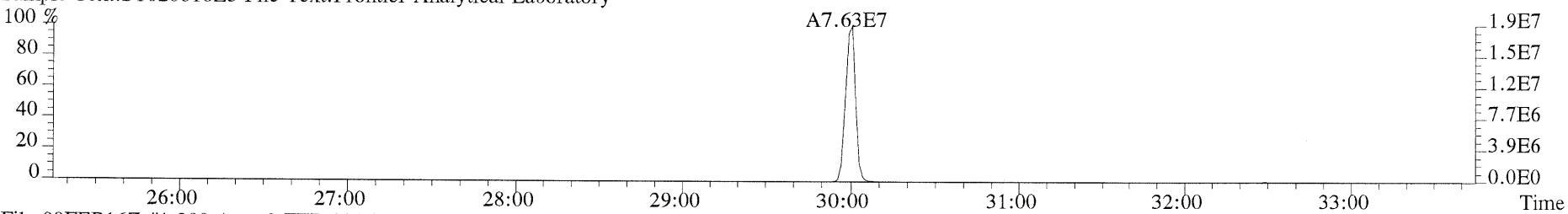
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



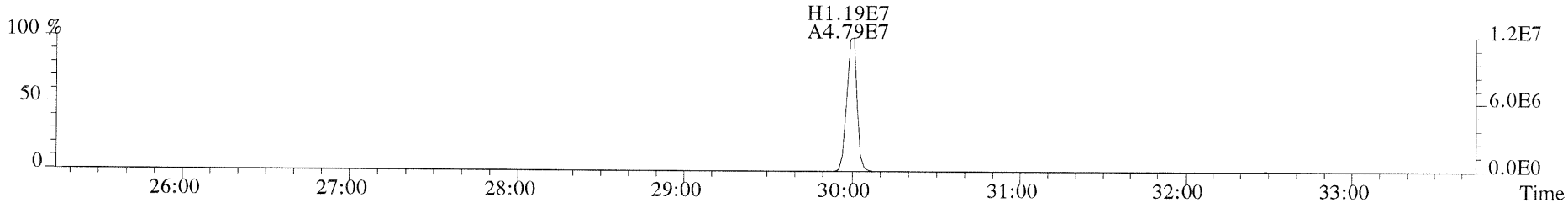
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



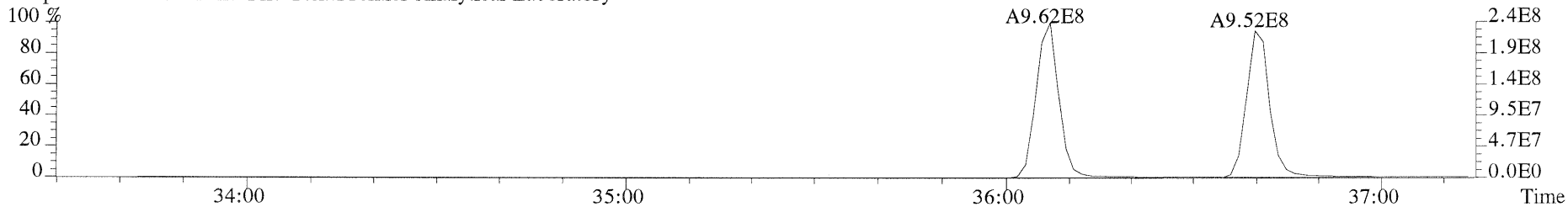
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



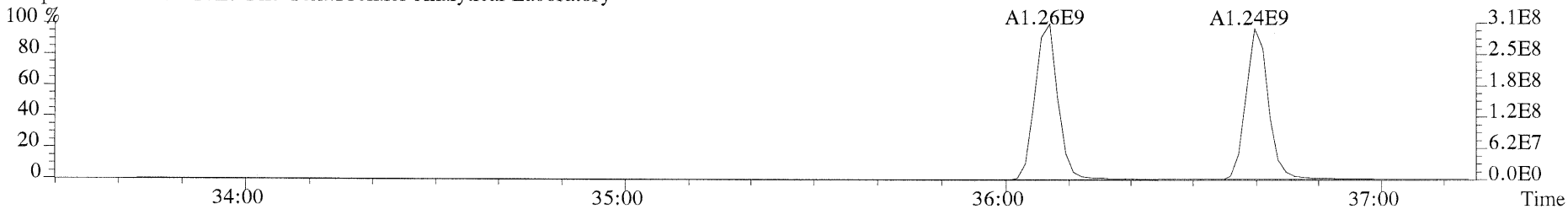
File:08FEB16Z #1-399 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



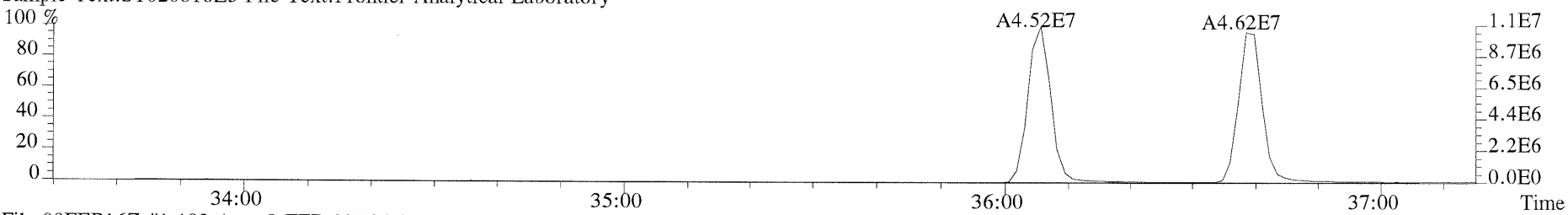
File:08FEB16Z #1-182 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



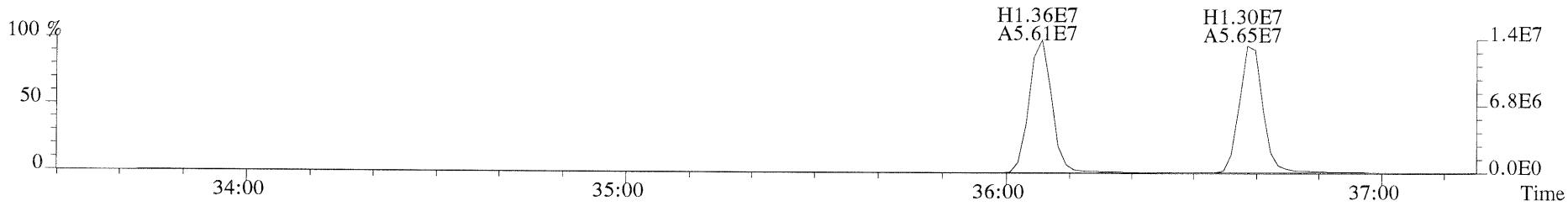
File:08FEB16Z #1-182 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 06:25:37 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:ST020816Z5 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 06:25:37 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:ST020816Z5 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
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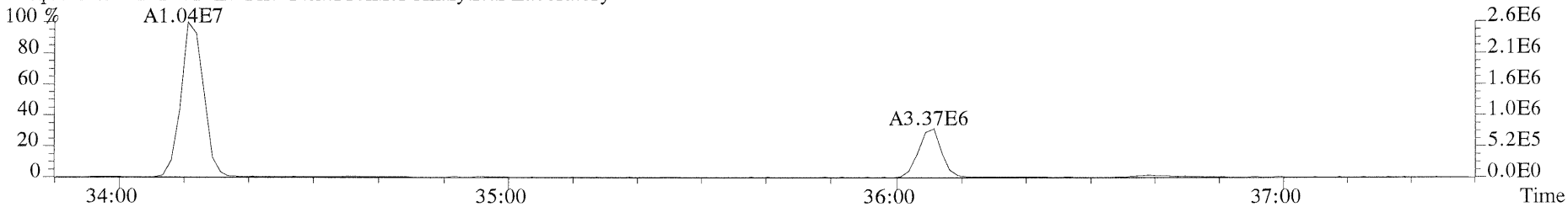
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



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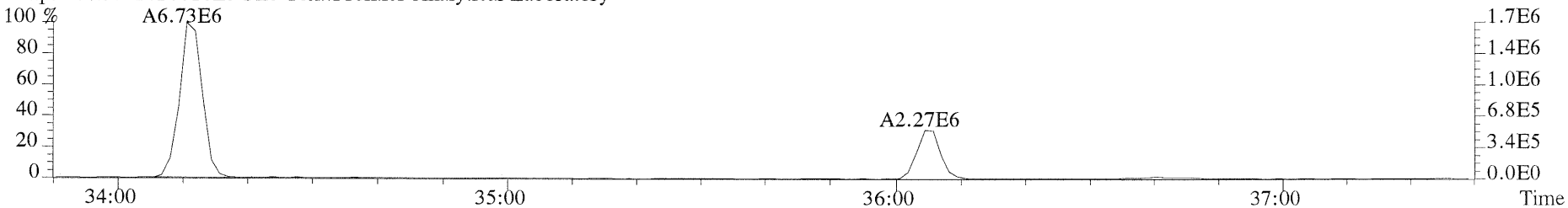
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



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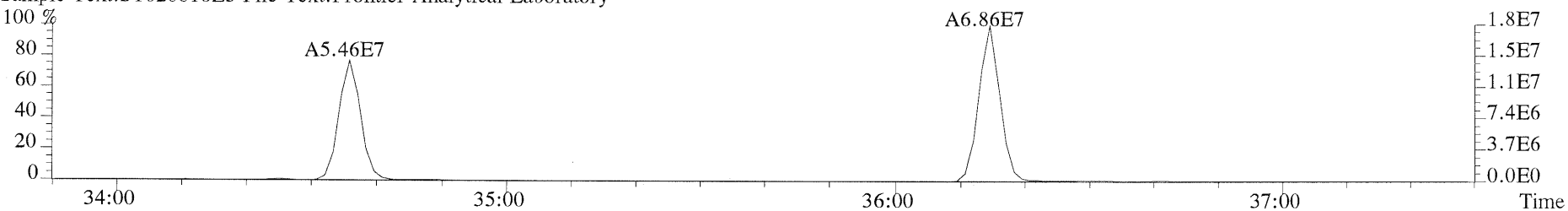
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



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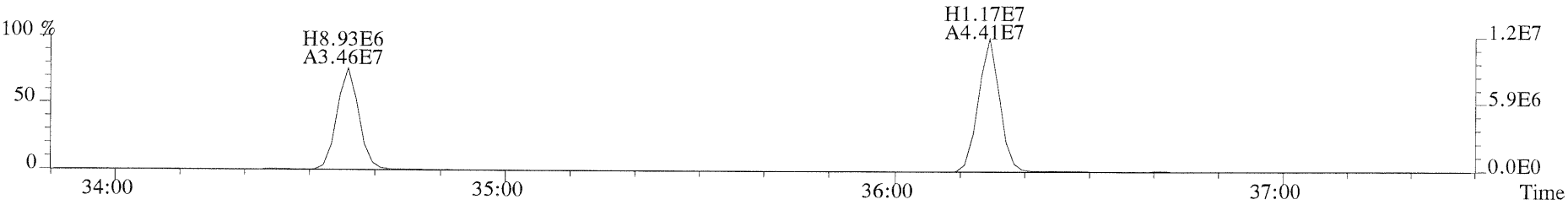

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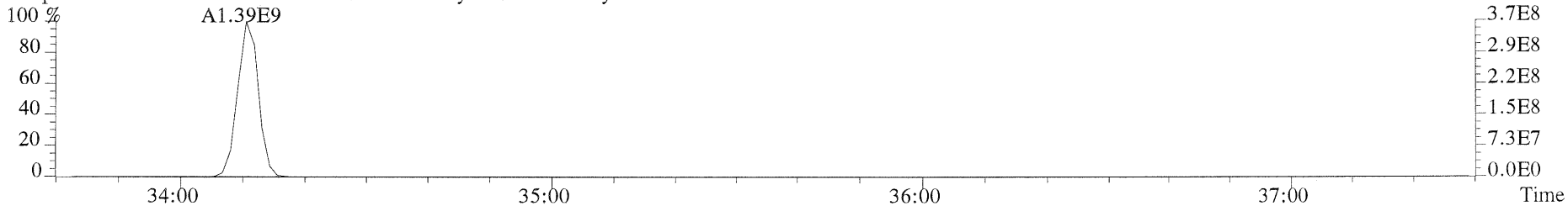
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



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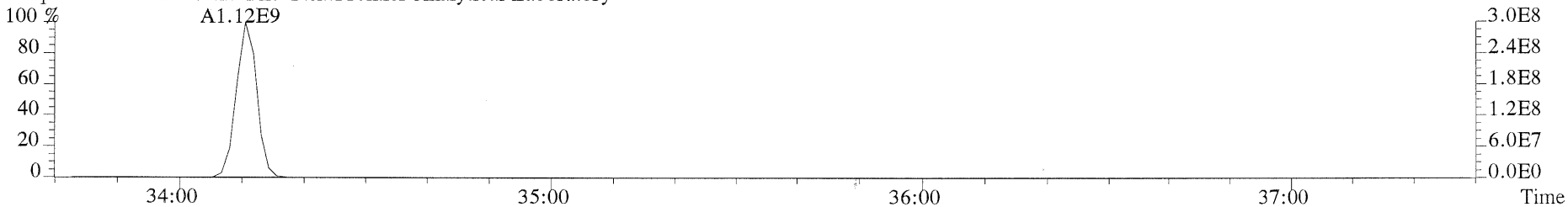
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-182 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
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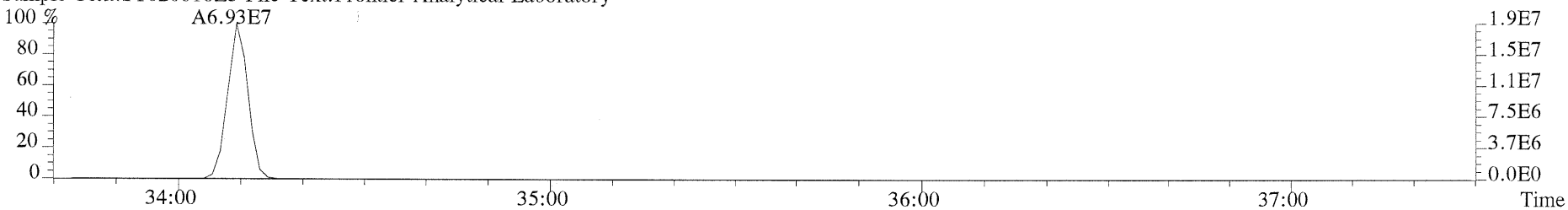
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



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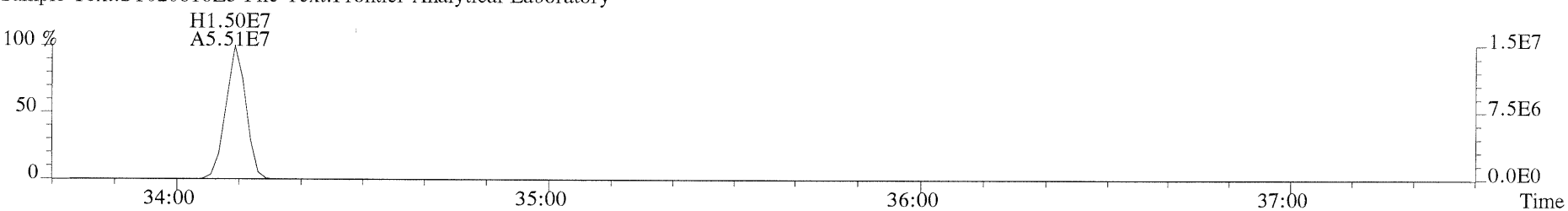
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
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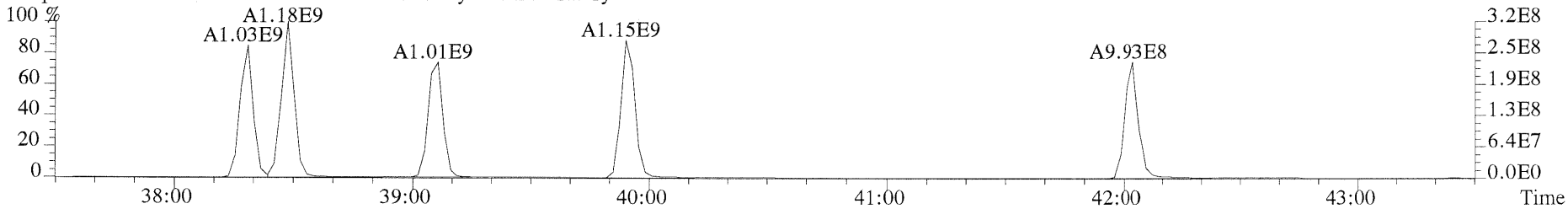
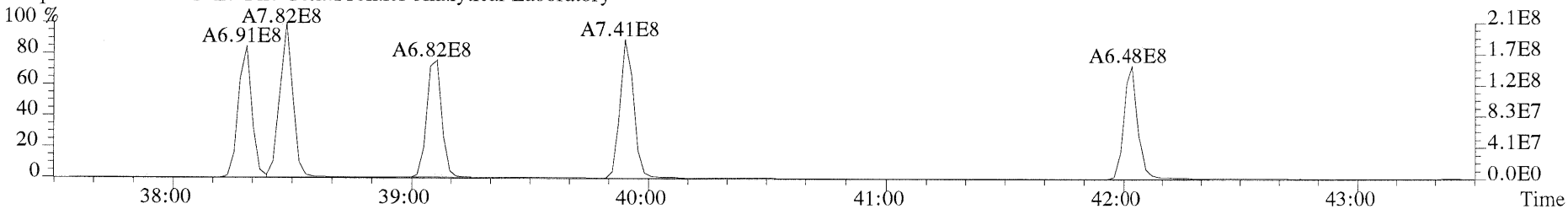
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 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:ST020816Z5 File Text:Frontier Analytical Laboratory



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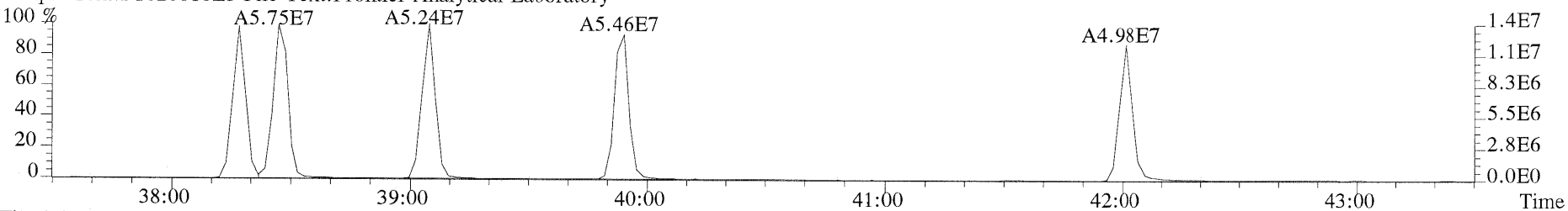
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



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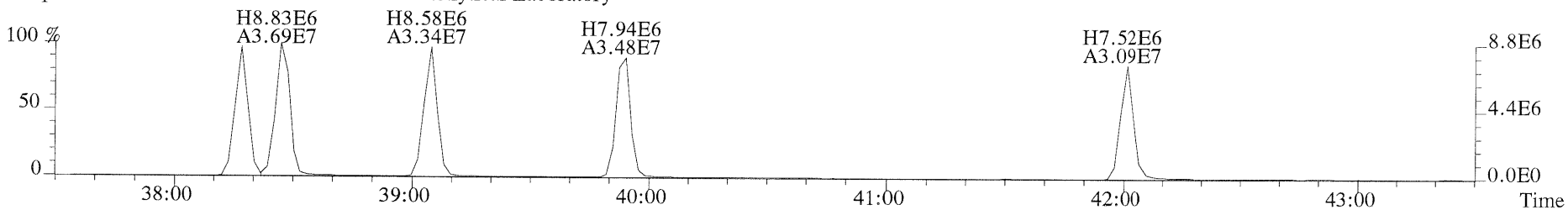
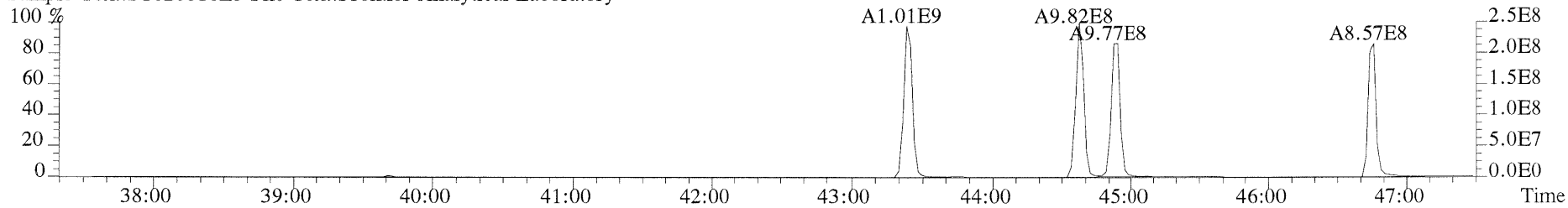
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 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:ST020816Z5 File Text:Frontier Analytical Laboratory



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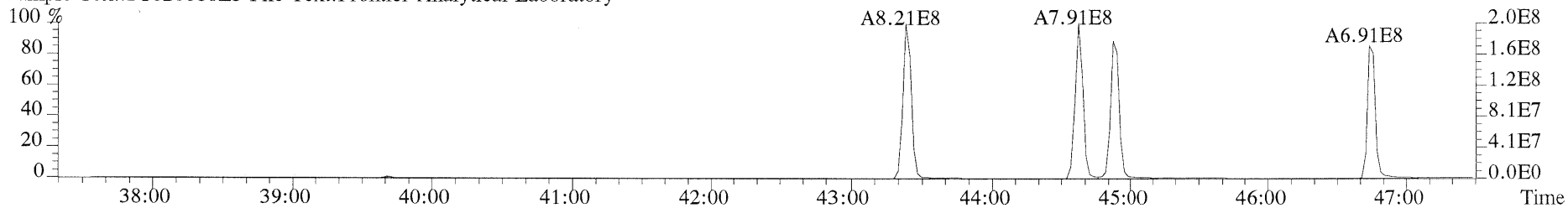
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



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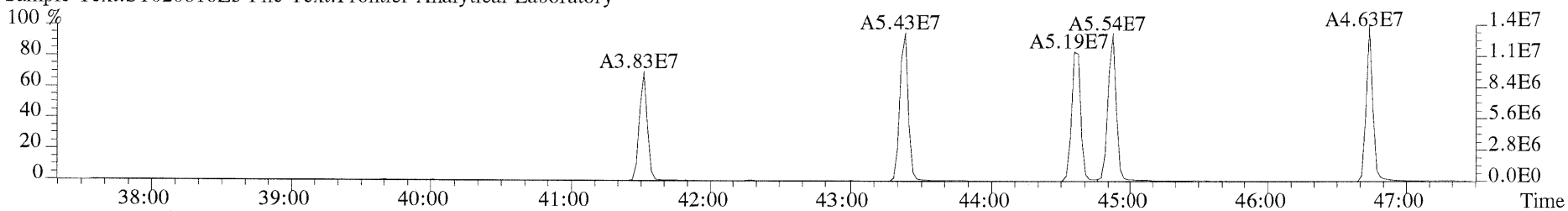
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



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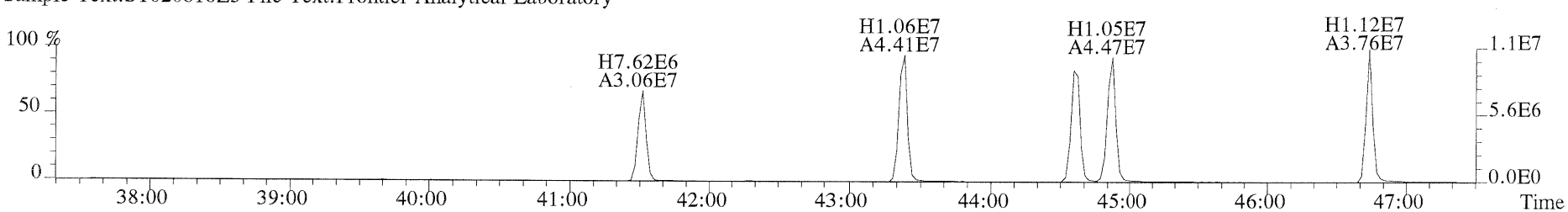
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



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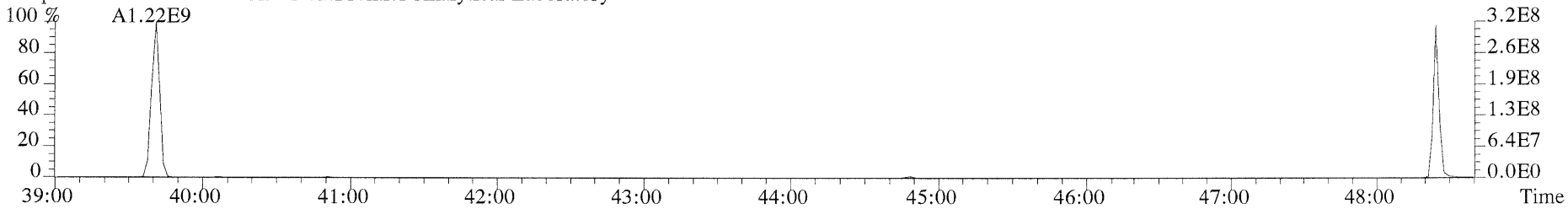
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



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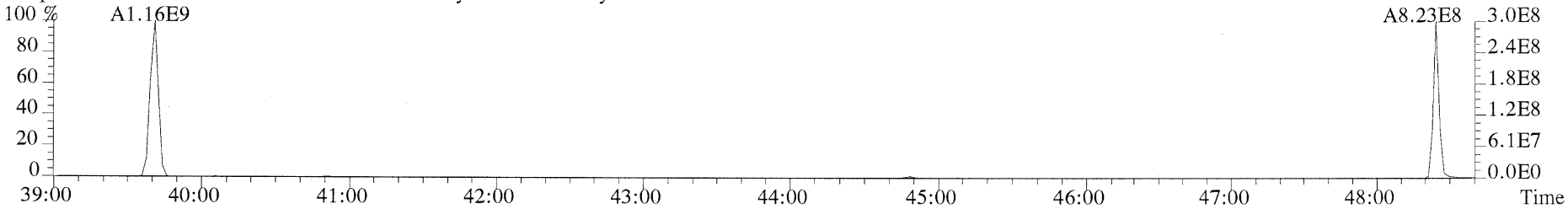
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



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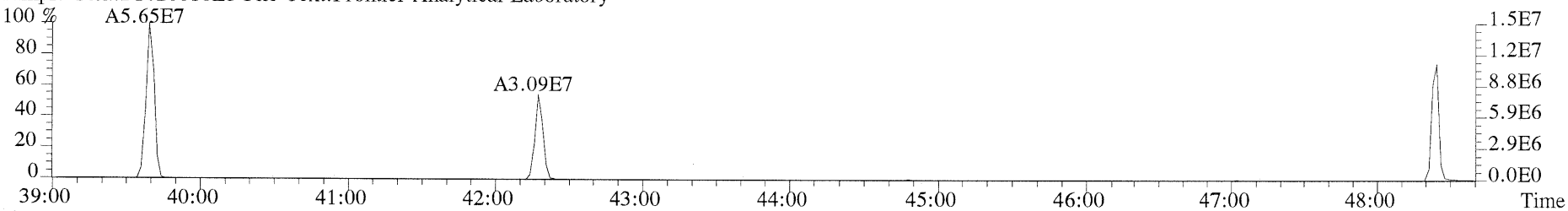
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



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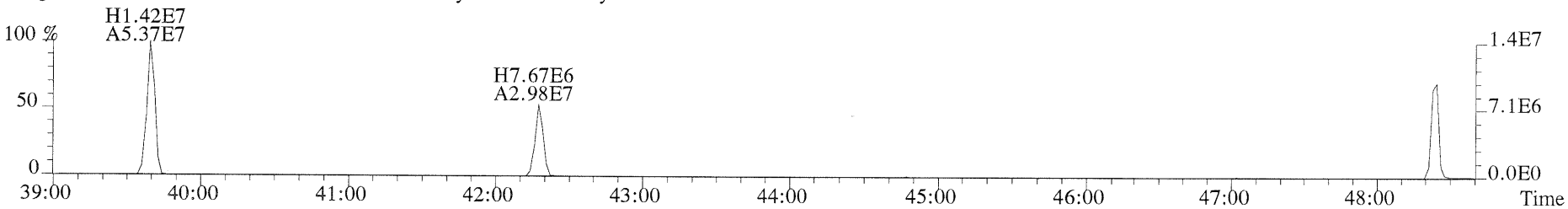
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



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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
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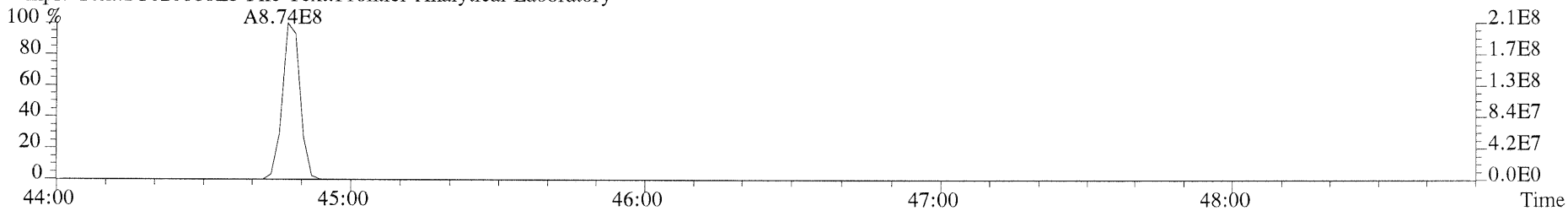

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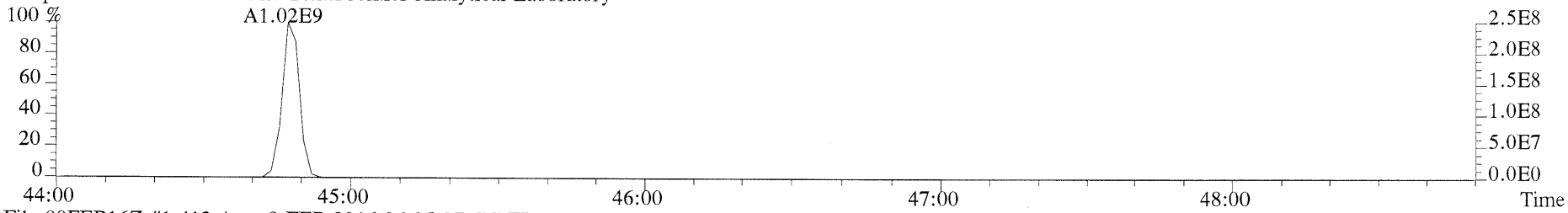
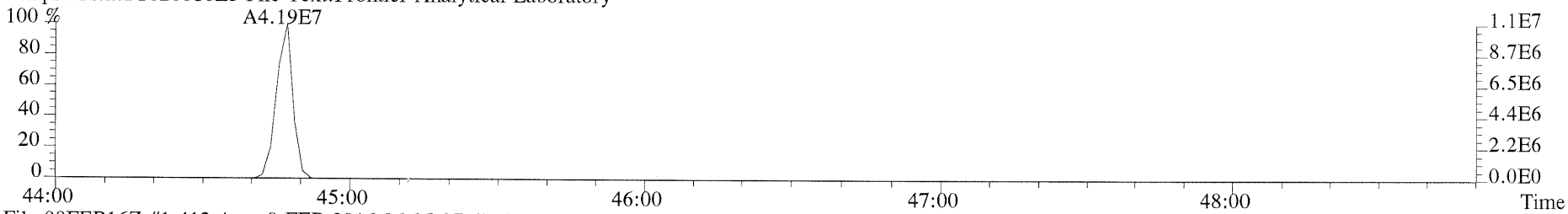
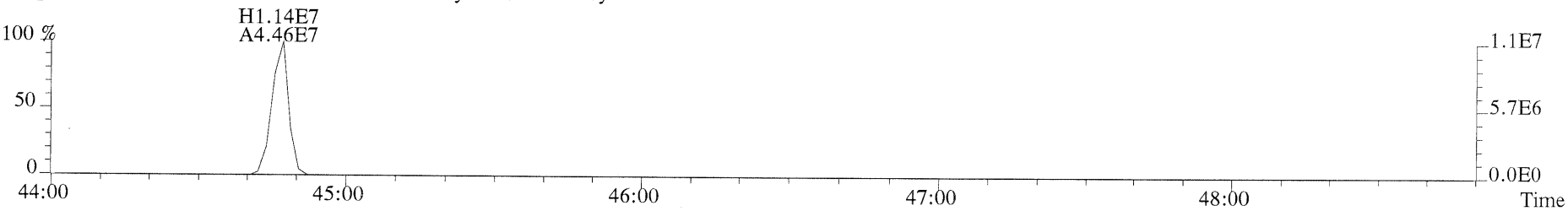
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



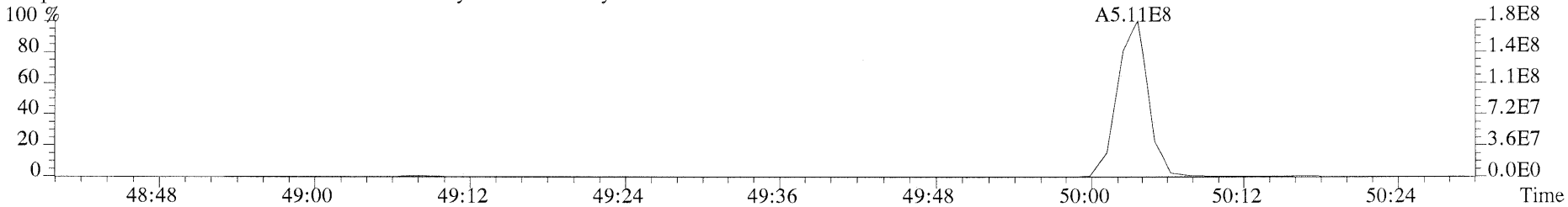
File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-412 Acq: 8-FEB-2016 06:25:37 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:ST020816Z5 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 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:ST020816Z5 File Text:Frontier Analytical Laboratory



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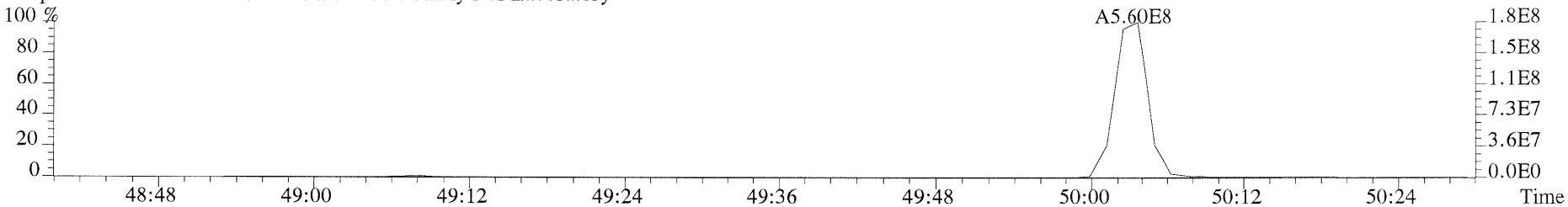
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
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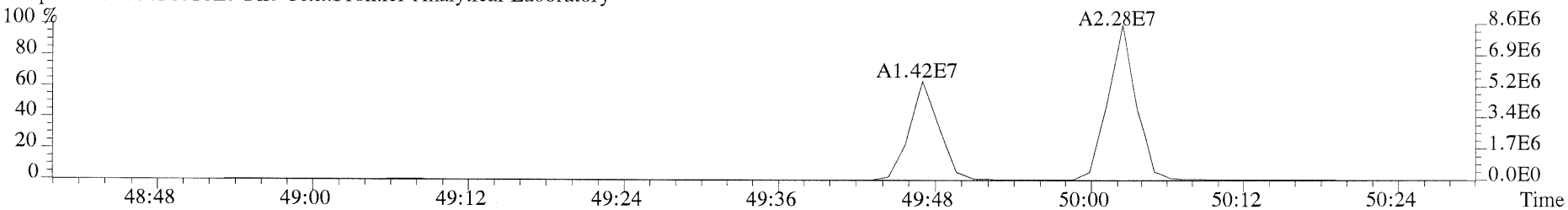
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



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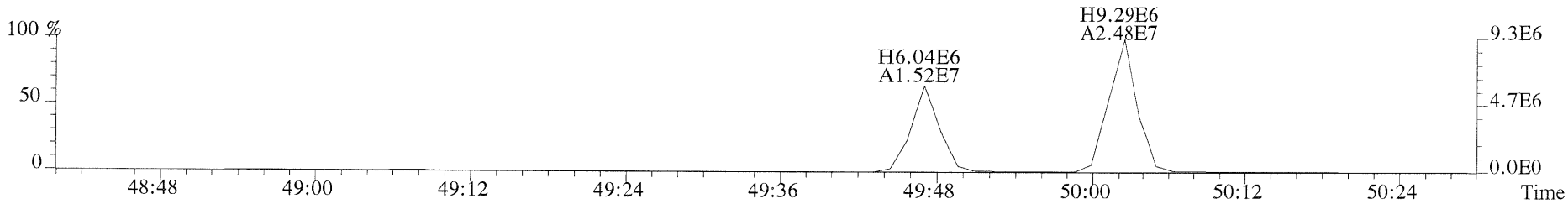
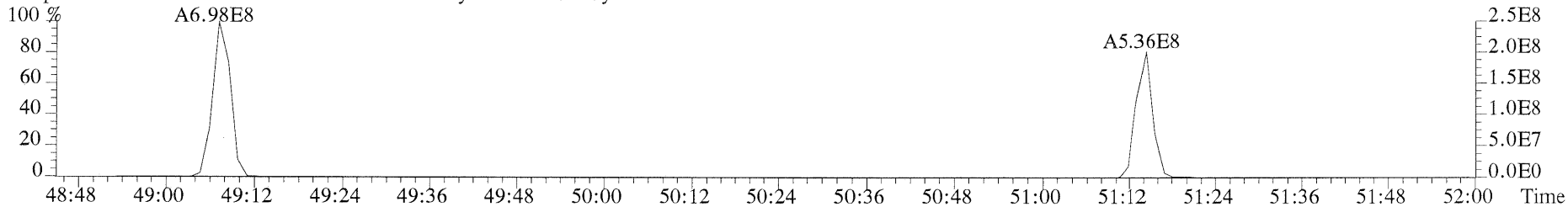
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 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:ST020816Z5 File Text:Frontier Analytical Laboratory



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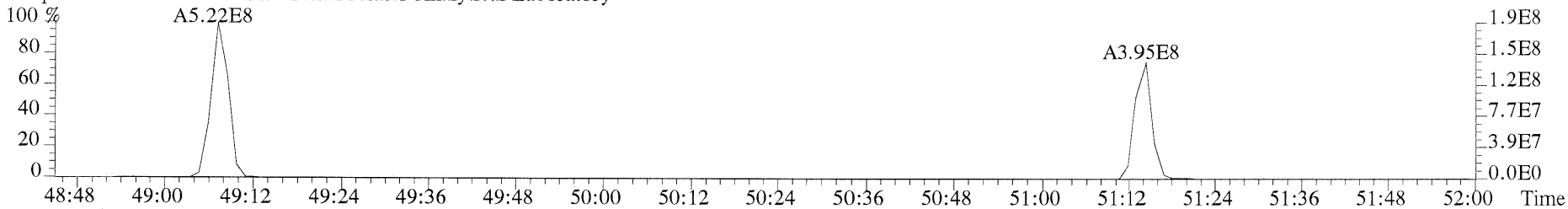
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



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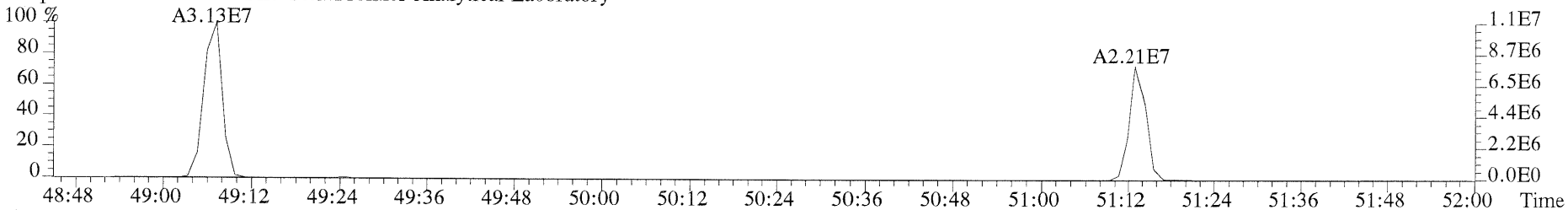
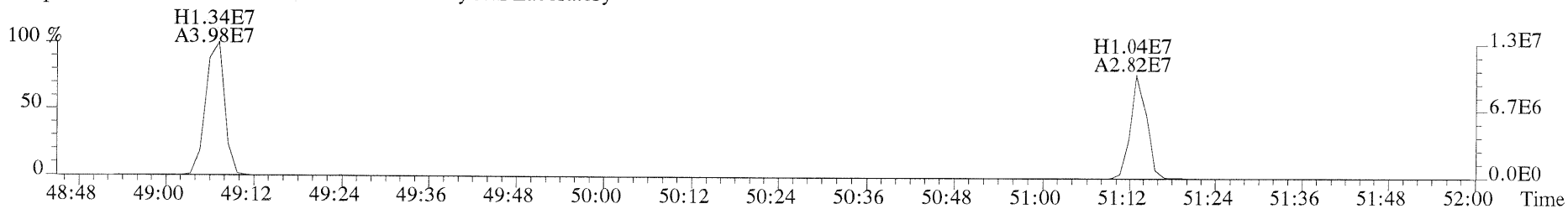
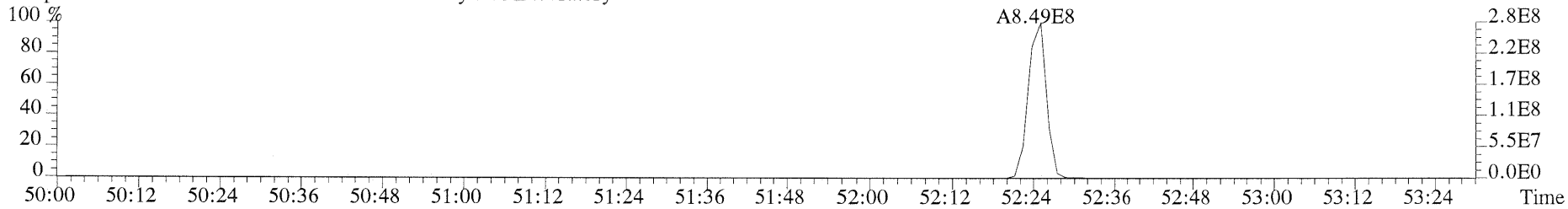
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



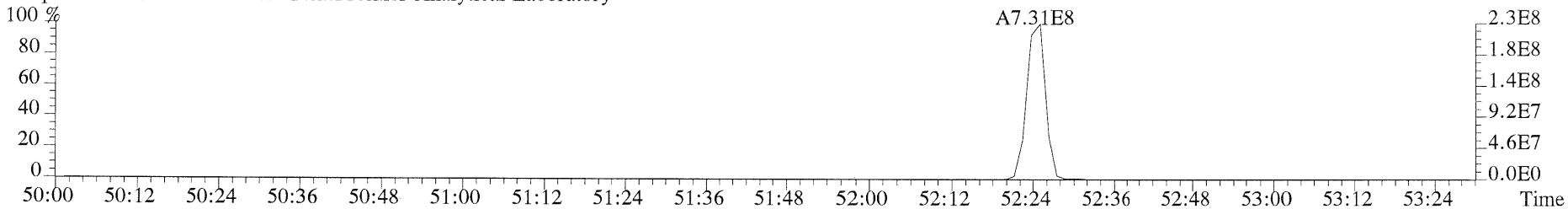
File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



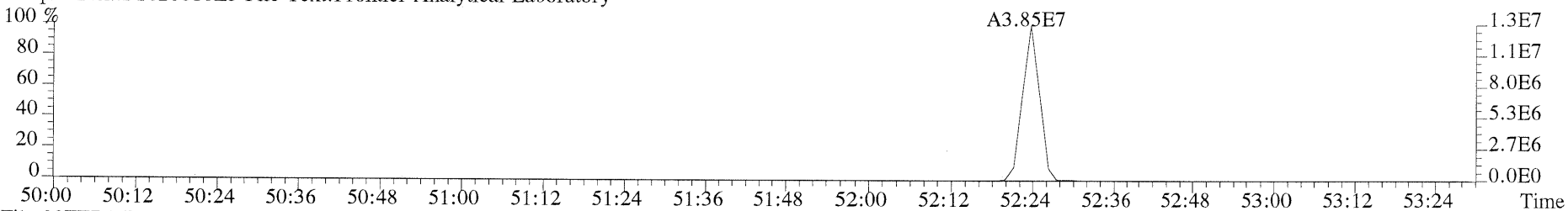
File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



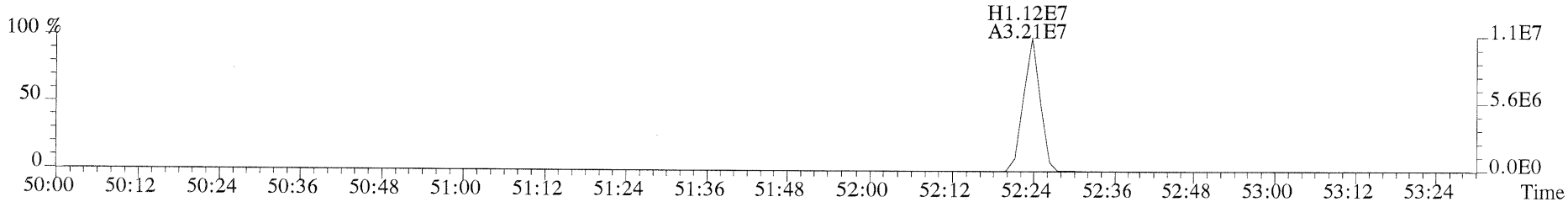
File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory



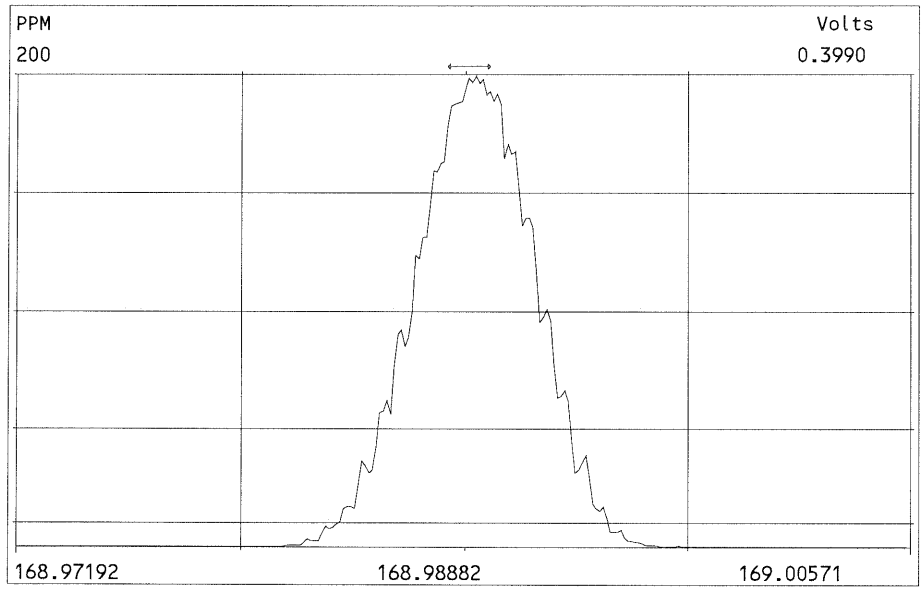
File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory

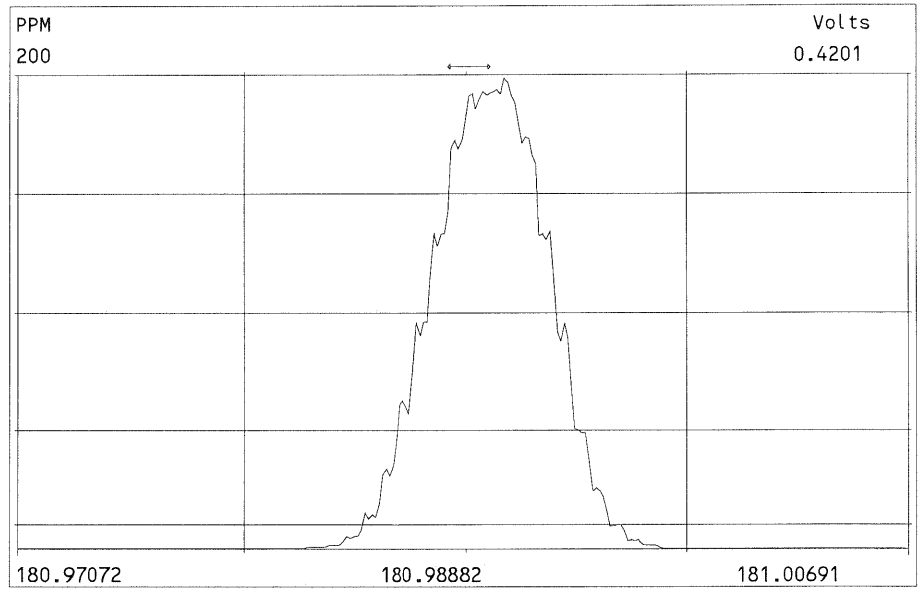


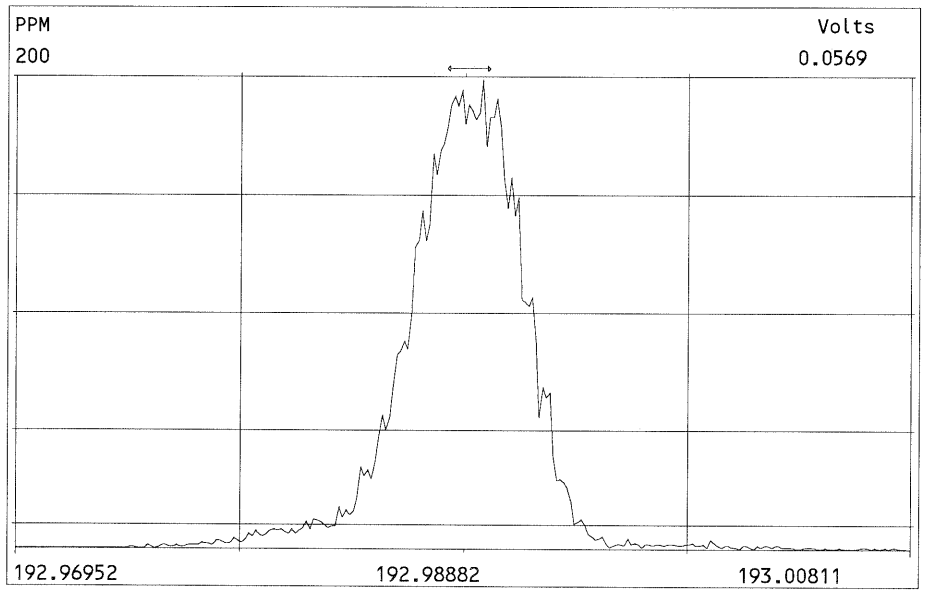
File:08FEB16Z #1-217 Acq: 8-FEB-2016 06:25:37 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST020816Z5 File Text:Frontier Analytical Laboratory

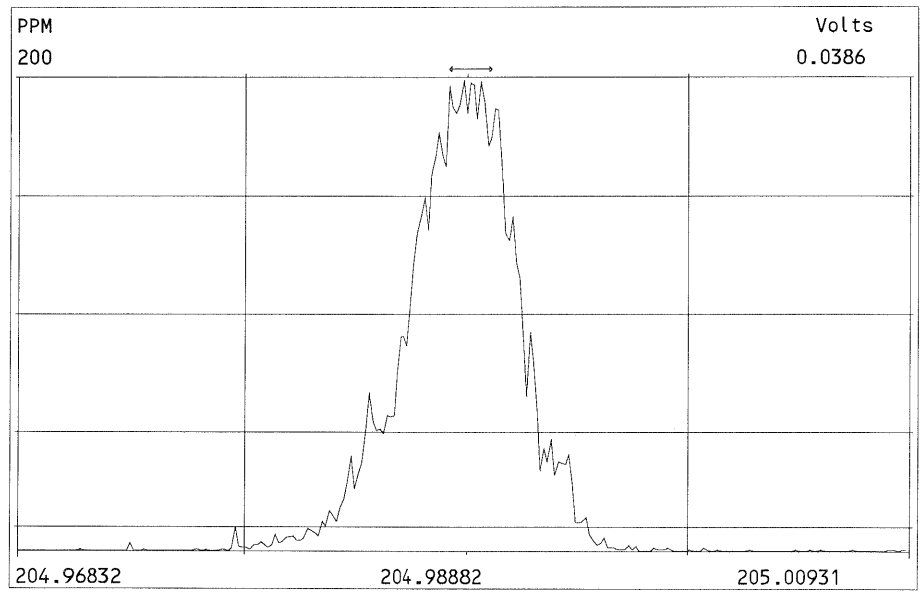


Peak Locate Examination: 9-FEB-2016:06:51 File:08FEB16Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

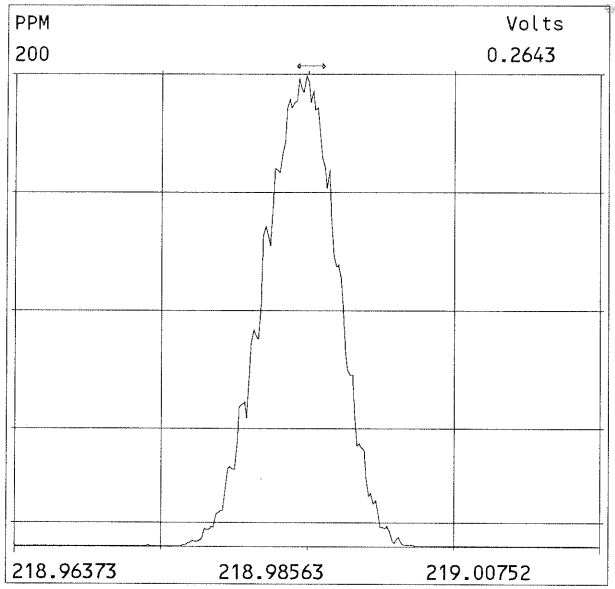


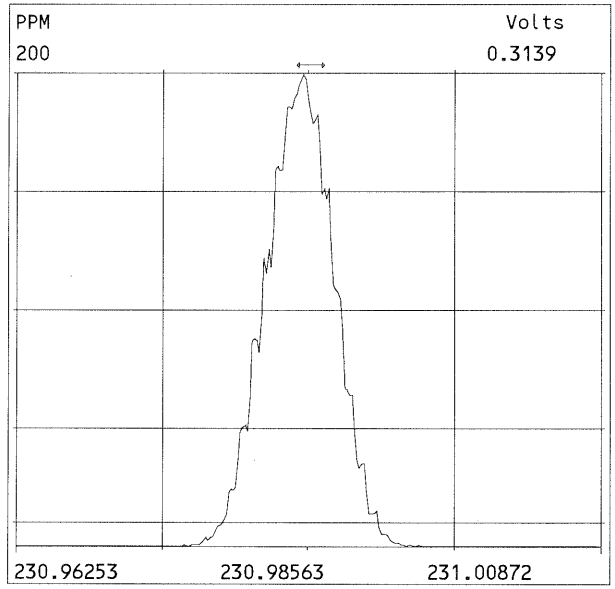


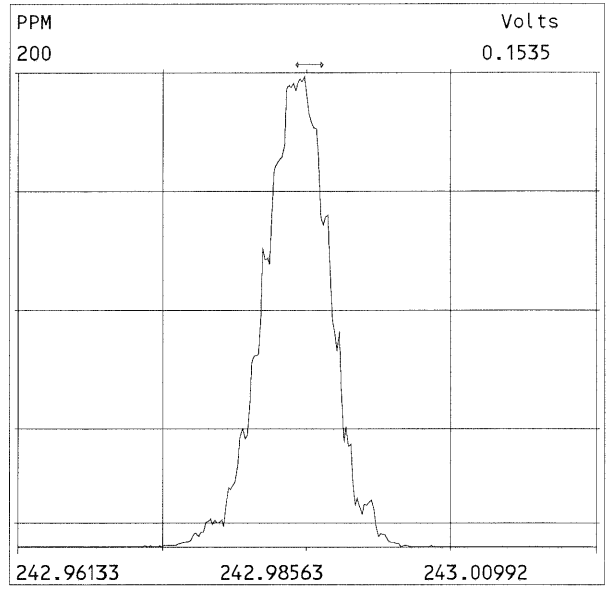


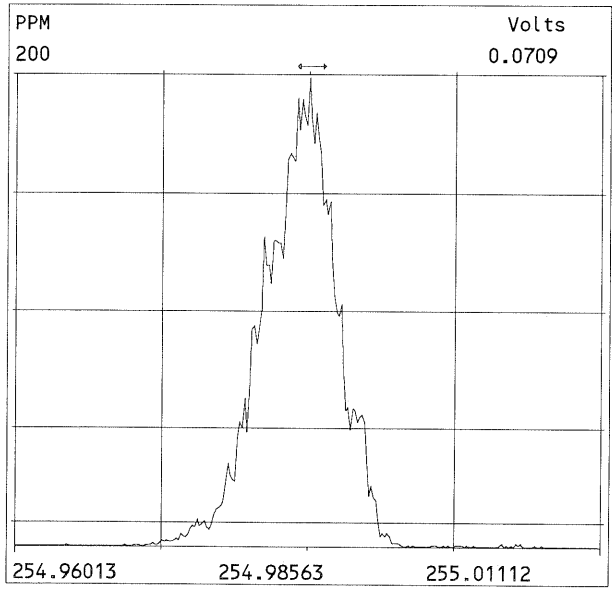


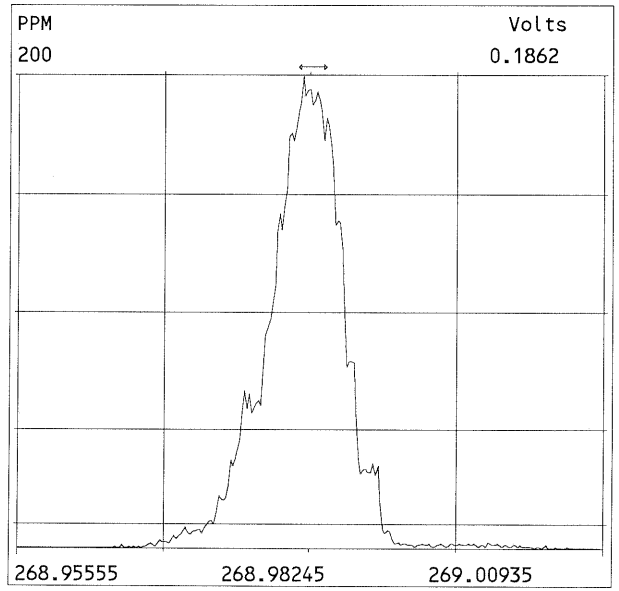
Peak Locate Examination: 9-FEB-2016:06:51 File:08FEB16Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

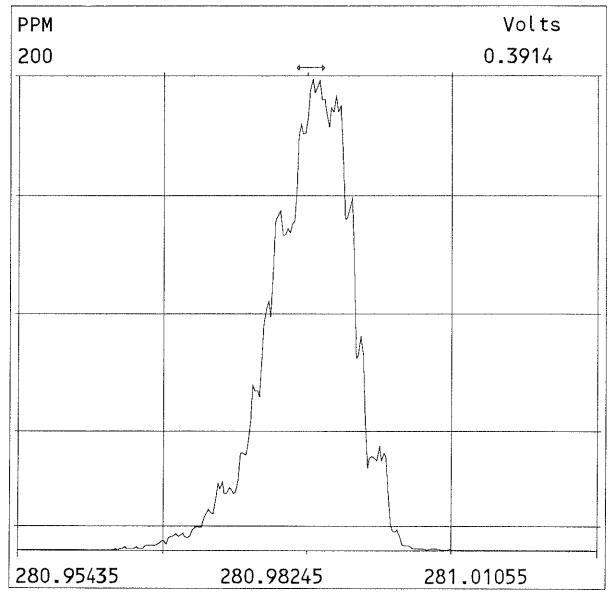




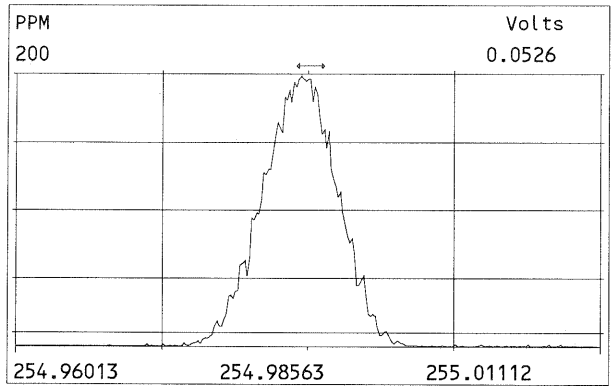


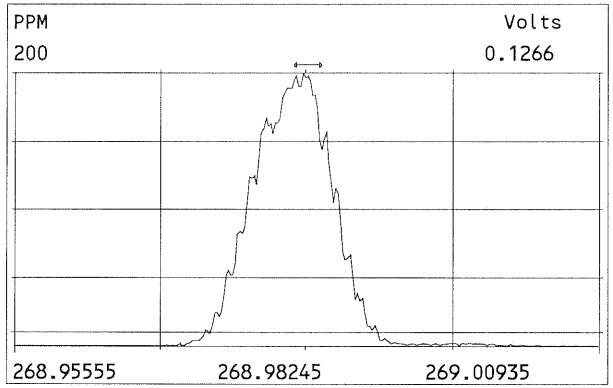


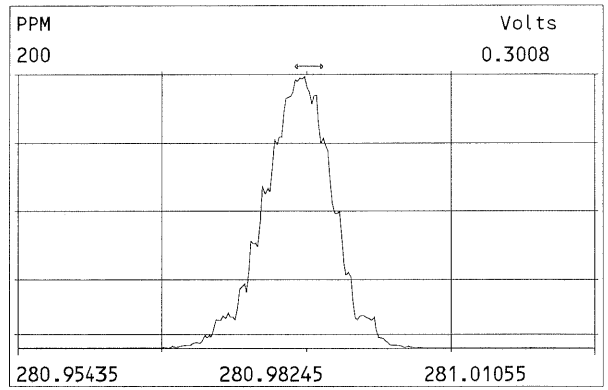


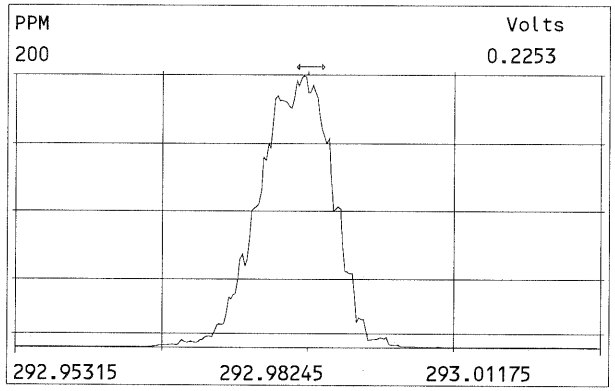


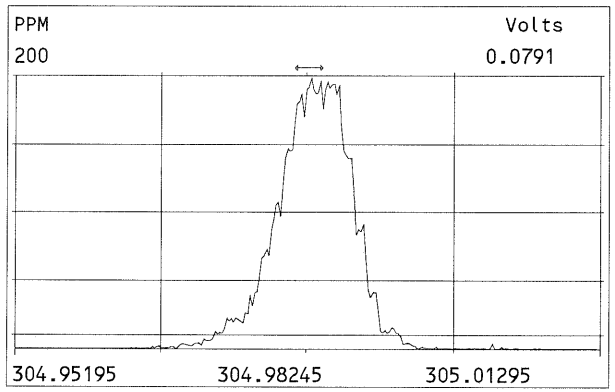
Peak Locate Examination: 9-FEB-2016:06:51 File:08FEB16Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

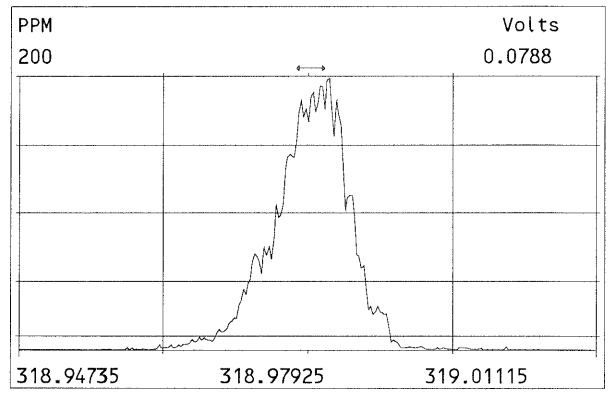


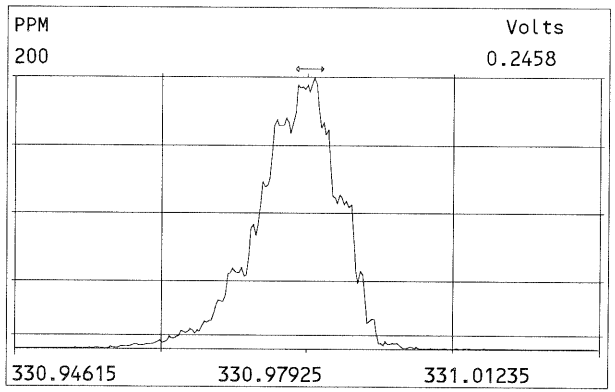


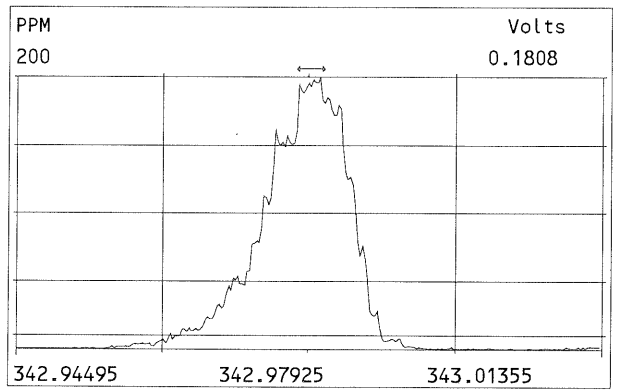




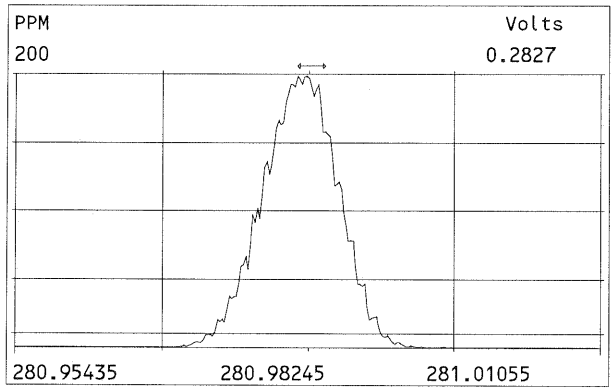


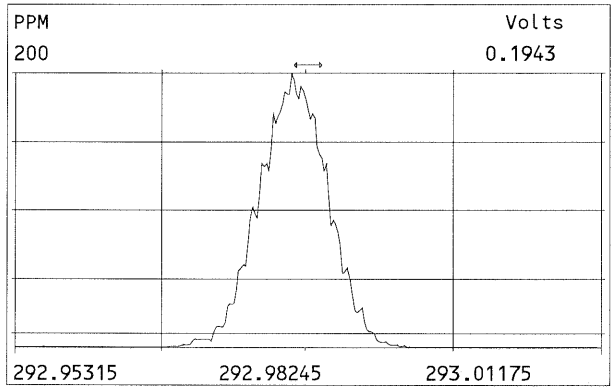


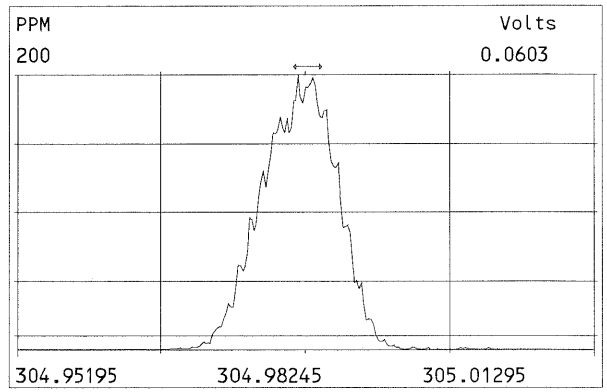


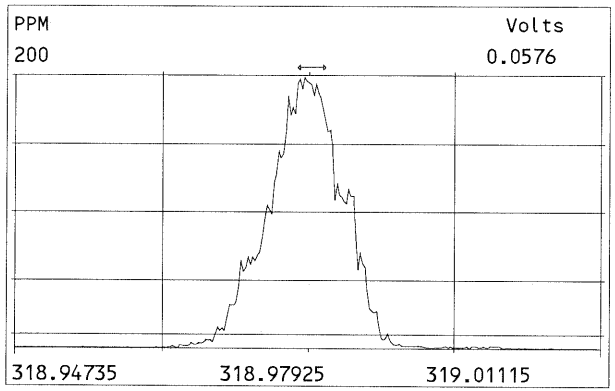


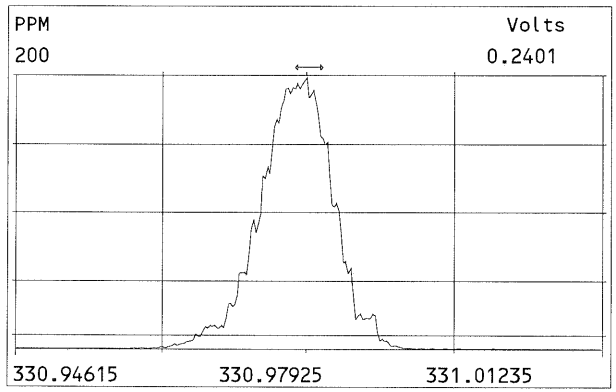
Peak Locate Examination: 9-FEB-2016:06:52 File:08FEB16Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

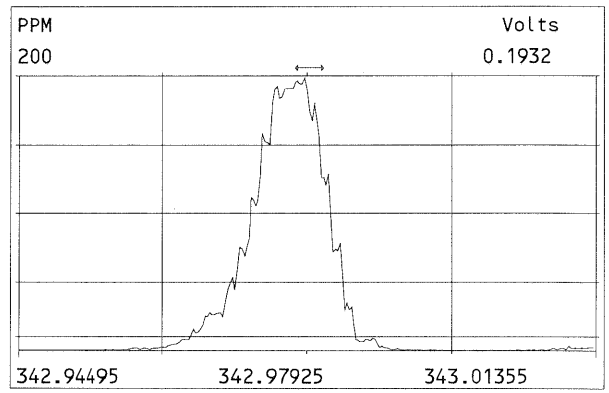


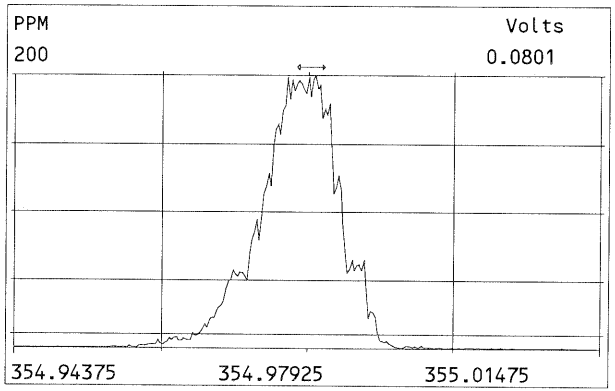


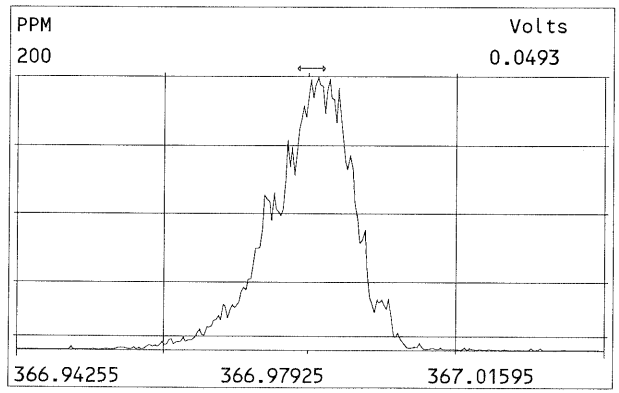


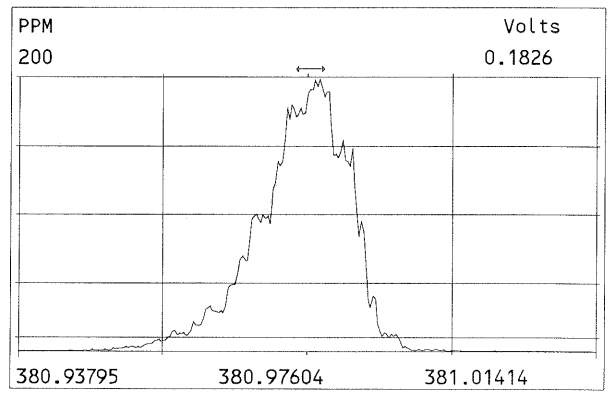




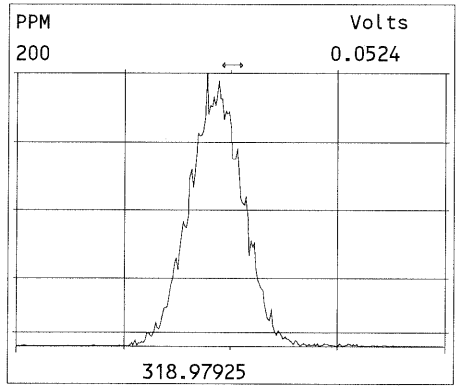


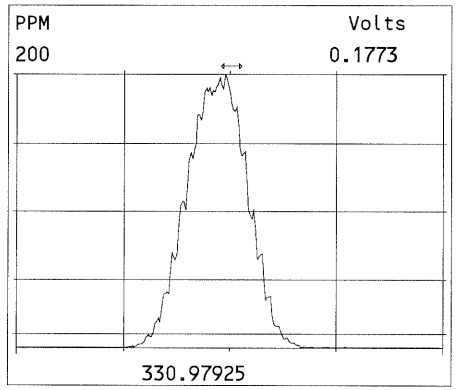


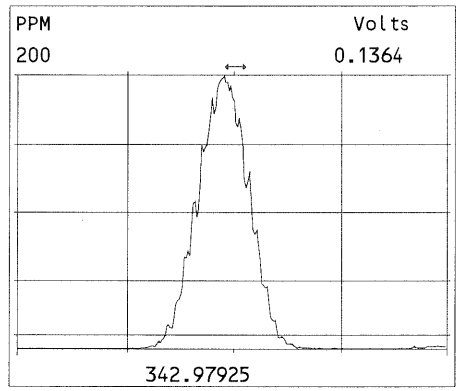


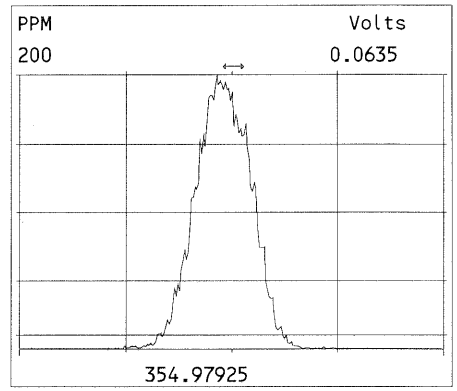


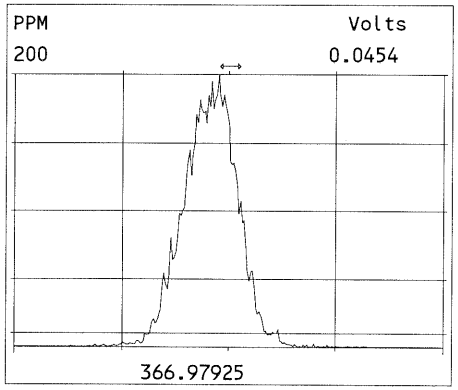
Peak Locate Examination: 9-FEB-2016:06:52 File:08FEB16Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

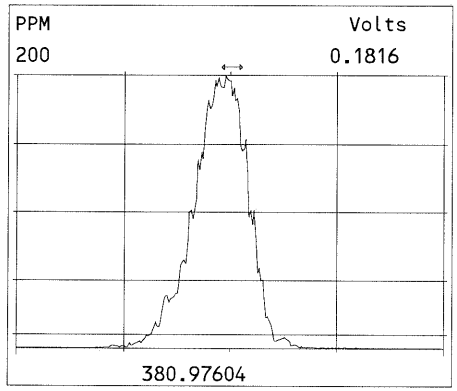


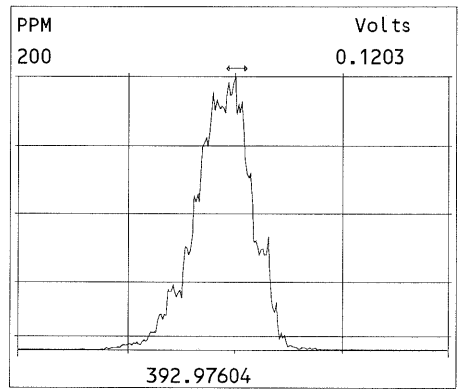


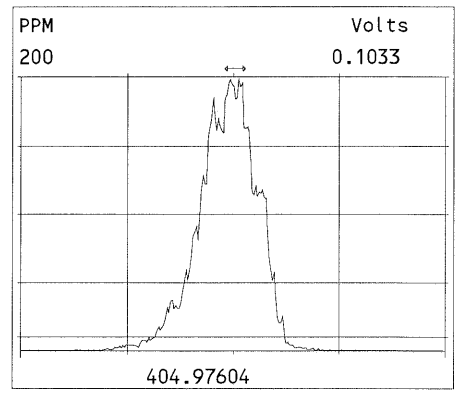


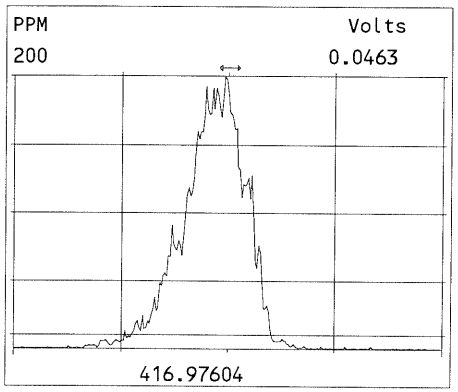


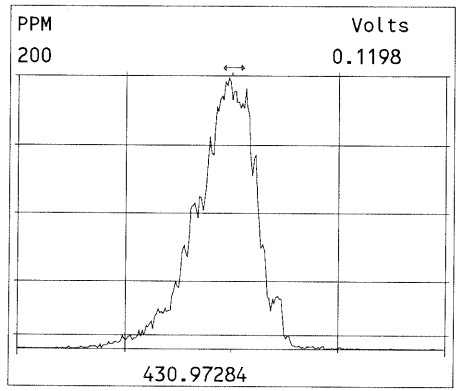


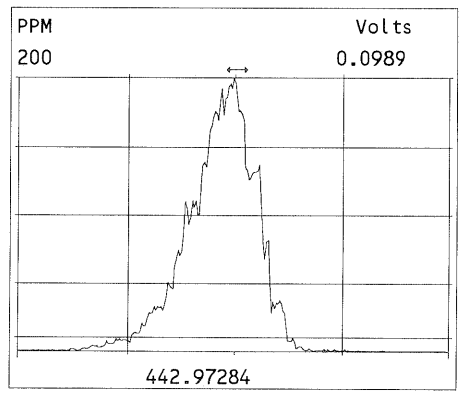




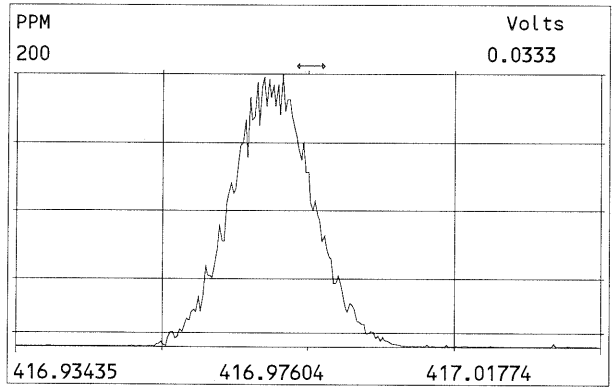


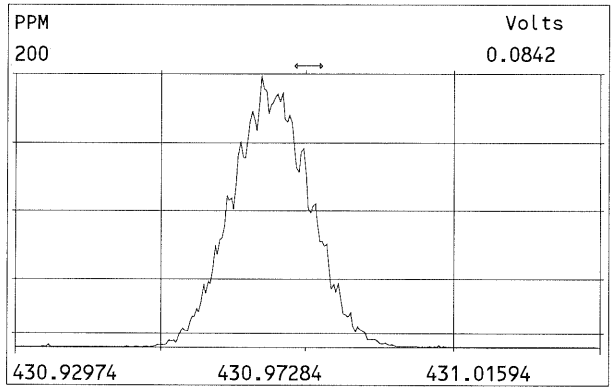


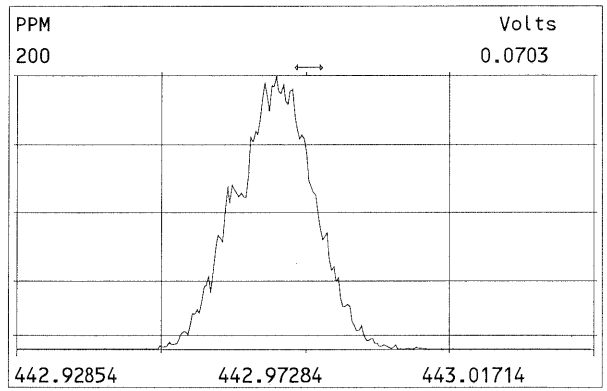


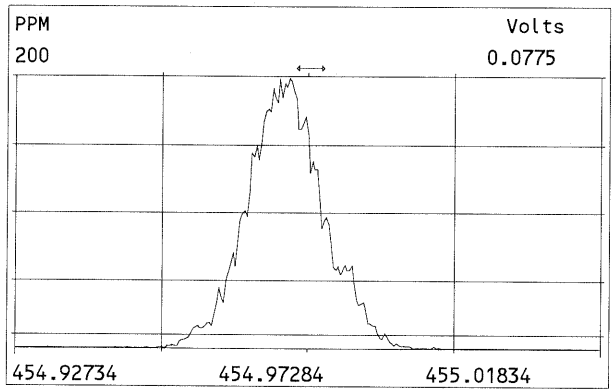


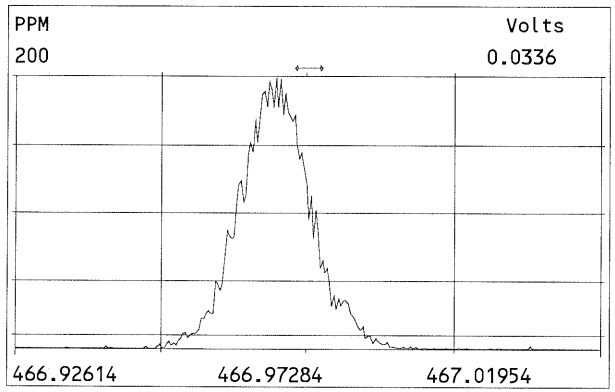
Peak Locate Examination: 9-FEB-2016:06:53 File:08FEB16Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

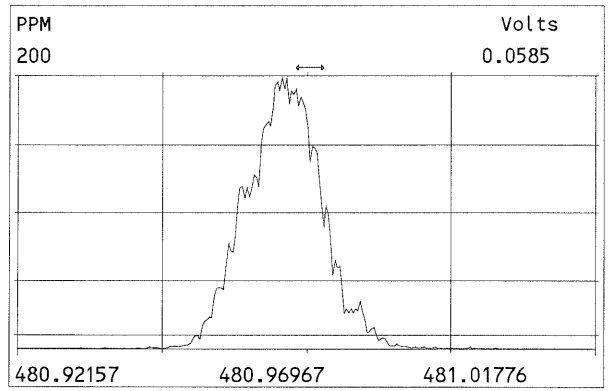


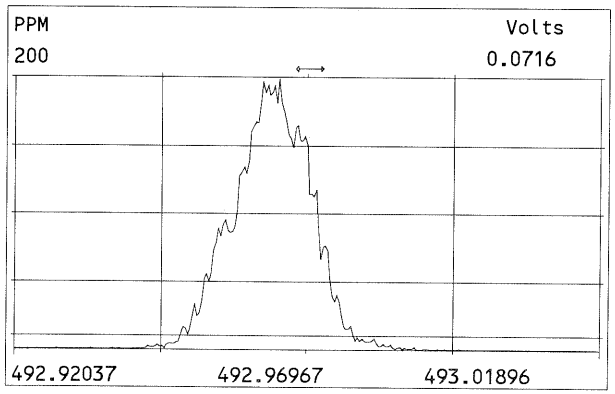


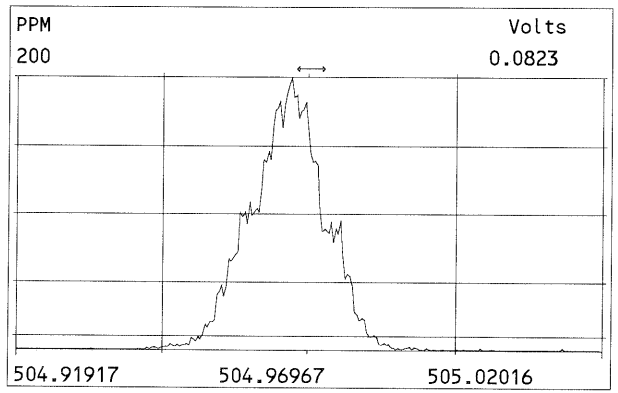


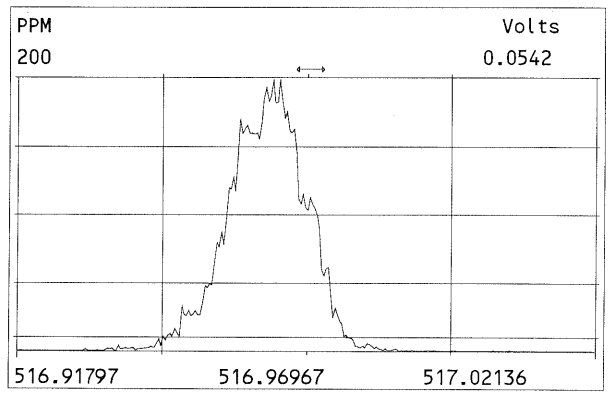












USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 2/8/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 02JUL16Z Sam:1 Analysis Date: 2-JUL-16 11:09:53

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.12	2.66-3.60	y	47.0	37.5 - 62.5
PCB-3	M/M+2	3.15	2.66-3.60	y	46.5	37.5 - 62.5
PCB-4	M/M+2	1.52	1.33-1.79	y	48.8	37.5 - 62.5
PCB-15	M/M+2	1.53	1.33-1.79	y	48.0	37.5 - 62.5
PCB-19	M/M+2	1.03	0.88-1.20	y	50.8	37.5 - 62.5
PCB-37	M/M+2	1.02	0.88-1.20	y	49.0	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	53.7	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	49.6	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	50.5	37.5 - 62.5
PCB-104	M+2/M+4	1.60	1.32-1.78	y	49.4	37.5 - 62.5
PCB-105	M+2/M+4	1.53	1.32-1.78	y	46.5	37.5 - 62.5
PCB-114	M+2/M+4	1.53	1.32-1.78	y	46.6	37.5 - 62.5
PCB-118	M+2/M+4	1.51	1.32-1.78	y	47.3	37.5 - 62.5
PCB-123	M+2/M+4	1.53	1.32-1.78	y	47.7	37.5 - 62.5
PCB-126	M+2/M+4	1.51	1.32-1.78	y	46.5	37.5 - 62.5
PCB-155	M+2/M+4	1.29	1.05-1.43	y	49.6	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	49.1	37.5 - 62.5
PCB-157	M+2/M+4	1.28	1.05-1.43	y	52.6	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	51.0	37.5 - 62.5
PCB-169	M+2/M+4	1.21	1.05-1.43	y	49.8	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	45.5	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	45.8	37.5 - 62.5
PCB-202	M+2/M+4	0.90	0.76-1.02	y	45.0	37.5 - 62.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	45.6	37.5 - 62.5
PCB-206	M+4/M+6	1.34	1.13-1.53	y	46.5	37.5 - 62.5
PCB-208	M+4/M+6	1.37	1.13-1.53	y	51.9	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	48.7	37.5 - 62.5

Analyst: [signature] Date: 7/5/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 2/8/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 02JUL16Z Sam:1 Analysis Date: 2-JUL-16 11:09:53

	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	3.05	2.66-3.60	y	100	50.0 - 145
13C-PCB-3	M/M+2	3.13	2.66-3.60	y	98.6	50.0 - 145
13C-PCB-4	M/M+2	1.61	1.33-1.79	y	97.6	50.0 - 145
13C-PCB-15	M/M+2	1.64	1.33-1.79	y	95.5	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	89.3	50.0 - 145
13C-PCB-37	M/M+2	1.08	0.88-1.20	y	106	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	94.0	50.0 - 145
13C-PCB-77	M/M+2	0.83	0.65-0.89	y	102	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	101	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	90.1	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	103	50.0 - 145
13C-PCB-114	M+2/M+4	1.55	1.32-1.78	y	105	50.0 - 145
13C-PCB-118	M+2/M+4	1.57	1.32-1.78	y	105	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	1.58	1.32-1.78	y	94.8	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	91.9	50.0 - 145
13C-PCB-156	M+2/M+4	1.25	1.05-1.43	y	97.8	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	94.6	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	97.5	50.0 - 145
13C-PCB-169	M+2/M+4	1.25	1.05-1.43	y	94.8	50.0 - 145
13C-PCB-188	M+2/M+4	1.08	0.89-1.21	y	101	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	112	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	102	50.0 - 145
13C-PCB-205	M+2/M+4	0.92	0.76-1.02	y	89.0	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	87.5	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	72.8	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	71.2	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	122	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	1.05	0.89-1.21	y	112	75.0 - 125

Analyst: [illegible] Date: 7/5/16

FAL ID: ST070116Z1 Filename: 02JUL16Z Sam:1 Acquired: 2-JUL-16 11:09:53 ICal: 1668FAL4-2-8-16
Client ID: 1668 CS3 R150603A ConCal: ST070216Z1 EndCal: ST070216Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.12e+07	3.12 y	14:22	0.97	47.0		2.50	-	-	*	-
13C-PCB-1	1.34e+08	3.05 y	14:21	1.34	100		2.50				100
PCB-3	5.69e+07	3.15 y	16:48	0.99	46.5		2.50	-	-	*	-
13C-PCB-3	1.23e+08	3.13 y	16:47	1.26	98.6		2.50				98.6
PCB-4	3.41e+07	1.52 y	18:02	1.08	48.8		2.50	-	-	*	-
13C-PCB-4	6.45e+07	1.61 y	17:60	0.66	97.6		2.50				97.6
PCB-15	4.81e+07	1.53 y	23:34	1.06	48.0		2.50	-	-	*	-
13C-PCB-15	9.47e+07	1.64 y	23:32	1.00	95.5		2.50				95.5
PCB-19	3.44e+07	1.03 y	21:55	1.00	50.8		2.50	-	-	*	-
13C-PCB-19	6.77e+07	1.07 y	21:53	0.76	89.3		2.50				89.3
13C-PCB-9	9.95e+07	1.62 y	19:41	-	59.2		2.50				
PCB-37	3.96e+07	1.02 y	30:13	1.12	49.0		2.50	-	-	*	-
13C-PCB-37	7.20e+07	1.08 y	30:12	1.08	106		2.50				106
PCB-54	3.80e+07	0.79 y	25:26	0.97	53.7		2.50	-	-	*	-
13C-PCB-54	7.31e+07	0.80 y	25:25	1.23	94.0		2.50				94.0
PCB-104	3.38e+07	1.60 y	29:53	1.10	49.4		2.50	-	-	*	-
13C-PCB-104	6.22e+07	1.60 y	29:51	1.09	90.1		2.50				90.1
13C-PCB-28	8.81e+07	1.07 y	26:30	1.14	122		2.50				122
13C-PCB-52	6.32e+07	0.78 y	28:46	-	58.3		2.50				
PCB-81	3.24e+07	0.78 y	35:59	1.15	50.5		2.50	-	-	*	-
13C-PCB-81	5.57e+07	0.80 y	35:58	1.01	101		2.50				101
PCB-77	3.15e+07	0.79 y	36:33	1.13	49.6		2.50	-	-	*	-
13C-PCB-77	5.62e+07	0.83 y	36:32	1.02	102		2.50				102
PCB-155	3.47e+07	1.29 y	34:01	1.09	49.6		2.50	-	-	*	-
13C-PCB-155	6.41e+07	1.28 y	34:00	1.29	91.9		2.50				91.9
13C-PCB-111	6.74e+07	1.60 y	36:05	1.22	102		2.50				102
13C-PCB-101	5.42e+07	1.58 y	34:27	-	59.0		2.50				
PCB-123	2.71e+07	1.53 y	38:10	1.07	47.7		2.50	-	-	*	-
13C-PCB-123	5.31e+07	1.57 y	38:08	1.07	105		2.50				105
PCB-118	2.96e+07	1.51 y	38:20	1.07	47.3		2.50	-	-	*	-
13C-PCB-118	5.86e+07	1.57 y	38:18	1.19	105		2.50				105
PCB-114	2.69e+07	1.53 y	38:58	1.06	46.6		2.50	-	-	*	-
13C-PCB-114	5.45e+07	1.55 y	38:56	1.11	105		2.50				105
PCB-105	2.68e+07	1.53 y	39:45	1.07	46.5		2.50	-	-	*	-
13C-PCB-105	5.39e+07	1.59 y	39:45	1.11	103		2.50				103
PCB-126	2.28e+07	1.51 y	41:54	1.08	46.5		2.50	-	-	*	-
13C-PCB-126	4.55e+07	1.58 y	41:54	1.02	94.8		2.50				94.8
PCB-167	2.74e+07	1.26 y	43:14	0.97	51.0		2.50	-	-	*	-
13C-PCB-167	5.56e+07	1.28 y	43:13	1.21	97.5		2.50				97.5
PCB-156	2.56e+07	1.25 y	44:28	1.01	49.1		2.50	-	-	*	-
13C-PCB-156	5.15e+07	1.25 y	44:27	1.12	97.8		2.50				97.8
PCB-157	2.65e+07	1.28 y	44:43	0.94	52.6		2.50	-	-	*	-
13C-PCB-157	5.33e+07	1.27 y	44:43	1.20	94.6		2.50				94.6
PCB-169	2.12e+07	1.21 y	46:39	0.97	49.8		2.50	-	-	*	-
13C-PCB-169	4.37e+07	1.25 y	46:37	0.98	94.8		2.50				94.8
PCB-188	3.44e+07	1.05 y	39:32	1.13	45.5		2.50	-	-	*	-
13C-PCB-188	6.71e+07	1.08 y	39:31	1.41	101		2.50				101
PCB-189	2.52e+07	1.05 y	48:17	1.17	45.8		2.50	-	-	*	-
13C-PCB-189	4.70e+07	1.06 y	48:17	0.89	112		2.50				112
PCB-202	2.55e+07	0.90 y	44:38	1.12	45.0		2.50	-	-	*	-
13C-PCB-202	5.09e+07	0.91 y	44:37	1.06	102		2.50				102
13C-PCB-178	4.37e+07	1.05 y	42:09	0.83	112		2.50				112
13C-PCB-138	4.70e+07	1.28 y	41:22	-	62.9		2.50				

FAL ID: ST070116Z1 Filename: 02JUL16Z Sam:1 Acquired: 2-JUL-16 11:09:53 ICal: 1668FAL4-2-8-16
Client ID: 1668 CS3 R150603A ConCal: ST070216Z1 EndCal: ST070216Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	2.08e+07	0.88	y	49:57	1.13	45.6	2.50	-	-	*	-
13C-PCB-205	4.04e+07	0.92	y	49:56	1.47	89.0	2.50				89.0
PCB-208	2.13e+07	1.37	y	49:00	0.91	51.9	2.50	-	-	*	-
13C-PCB-208	4.50e+07	0.80	y	48:59	2.00	72.8	2.50				72.8
PCB-206	1.69e+07	1.34	y	51:08	0.96	46.5	2.50	-	-	*	-
13C-PCB-206	3.78e+07	0.79	y	51:06	1.40	87.5	2.50				87.5
PCB-209	2.54e+07	1.19	y	52:17	1.13	48.7	2.50	-	-	*	-
13C-PCB-209	4.63e+07	1.20	y	52:17	2.10	71.2	2.50				71.2
13C-PCB-194	3.10e+07	0.92	y	49:40	-	99.4	2.50				

Analyst: _____ Date: 7/5/16

Frontier Analytical Laboratory - Acquisition Log

Run Name:02JUL16Z Instrument: FAL4 GC: DB1 Experiment:1668PCB

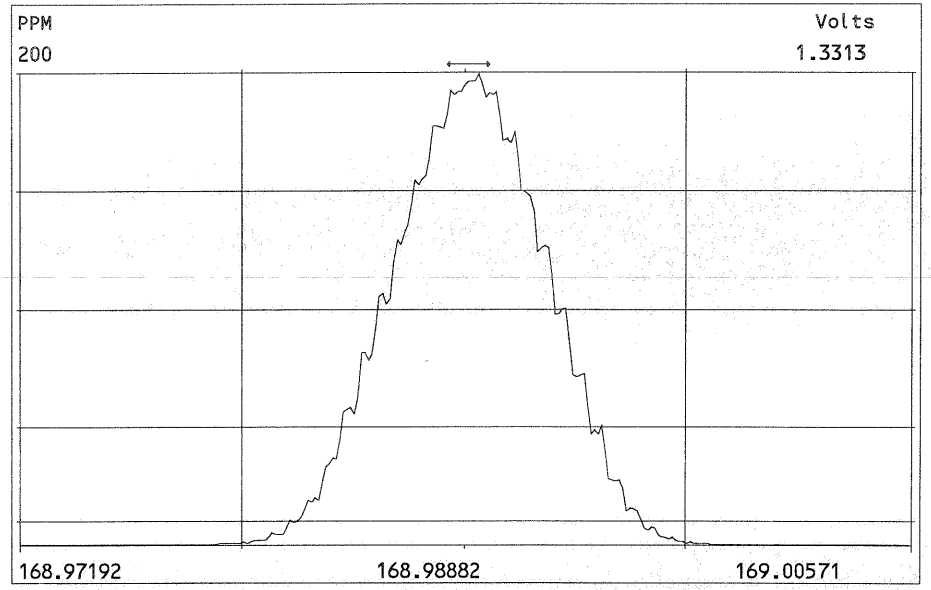
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
02JUL16Z	1	ST070116Z1	1668 CS3 R150603A	2-JUL-16 11:09:53	ST070216Z1	ST070216Z2	BS
02JUL16Z	2	SS070116Z1	Daily 209 151201A	2-JUL-16 12:09:48	ST070216Z1	ST070216Z2	BS
02JUL16Z	3	03753-001-0001-OPR	OPR	2-JUL-16 13:09:45	ST070216Z1	ST070216Z2	BS
02JUL16Z	4	03753-001-0001-MB	Method Blank	2-JUL-16 14:09:44	ST070216Z1	ST070216Z2	BS
02JUL16Z	5	09967-004-0001-SA	LDW-CS-C4-S010-PW-MB	2-JUL-16 15:09:42	ST070216Z1	ST070216Z2	BS
02JUL16Z	6	09967-005-0001-SA	LDW-CS-C5-S010-PW-MB	2-JUL-16 16:09:40	ST070216Z1	ST070216Z2	BS
02JUL16Z	7	09967-001-0001-SA	LDW-CS-C1-S010-PW-TB	2-JUL-16 17:09:38	ST070216Z1	ST070216Z2	BS
02JUL16Z	8	09967-002-0001-SA	LDW-CS-C2-S010-PW-TB	2-JUL-16 18:09:37	ST070216Z1	ST070216Z2	BS
02JUL16Z	9	09967-003-0001-SA	LDW-CS-C3-S010-PW-TB	2-JUL-16 19:09:34	ST070216Z1	ST070216Z2	BS
02JUL16Z	10	QC070116Z1	SQC1	2-JUL-16 20:09:31	ST070216Z1	ST070216Z2	BS
02JUL16Z	11	QC070116Z2	SQC2	2-JUL-16 21:09:28	ST070216Z1	ST070216Z2	BS
02JUL16Z	12	ST070116Y2	1668 CS3 R150603A	2-JUL-16 22:09:22	ST070216Z1	ST070216Z2	BS

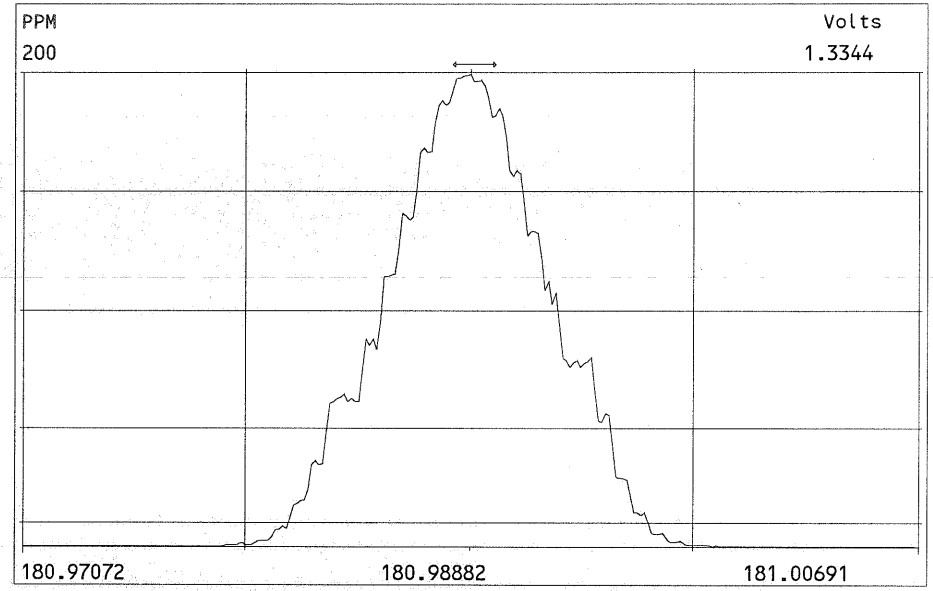
BJ 7/5/16

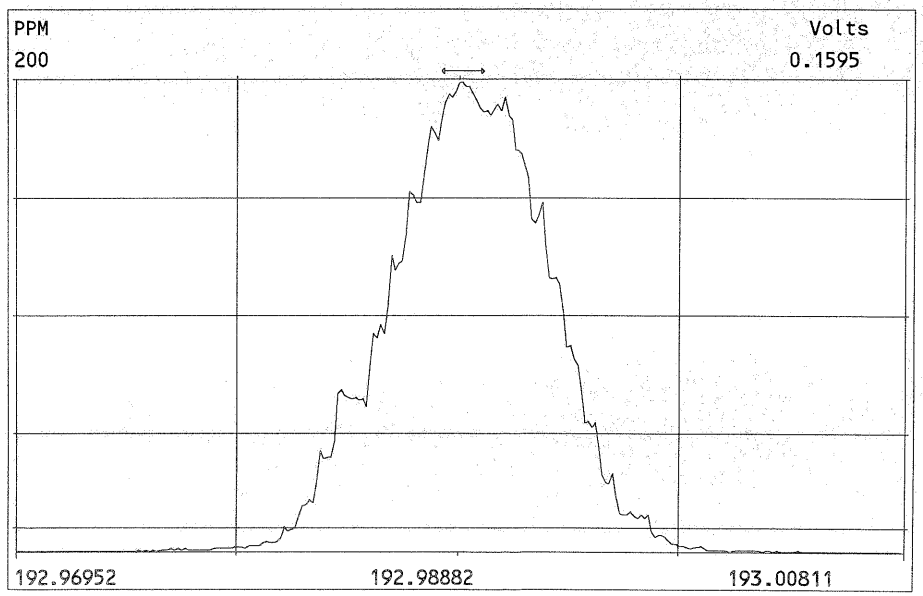
Data Backed Up:_____

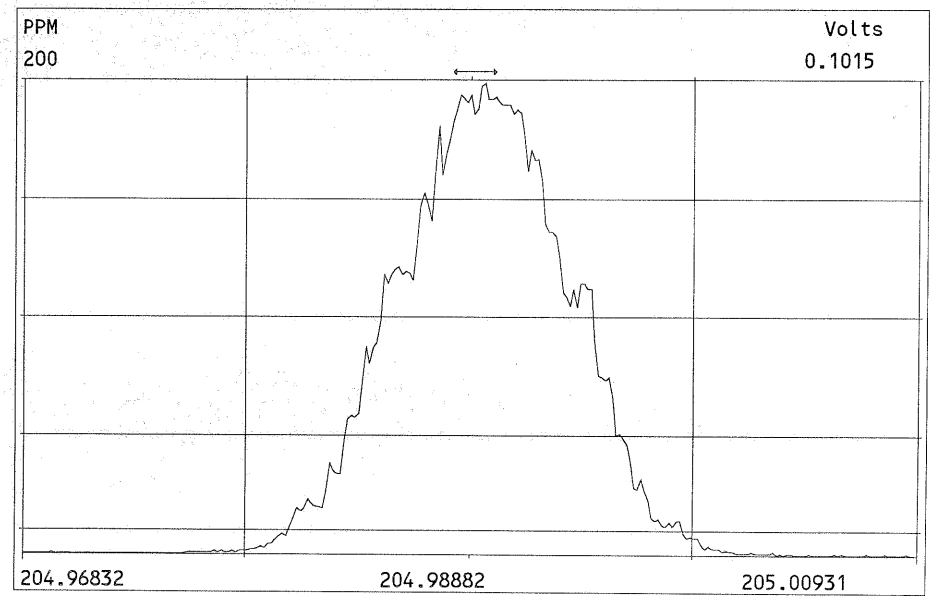
Date:_____

Peak Locate Examination: 2-JUL-2016:11:05 File:02JUL16Z
Experiment:1668PCB Function:1 Reference:PFK

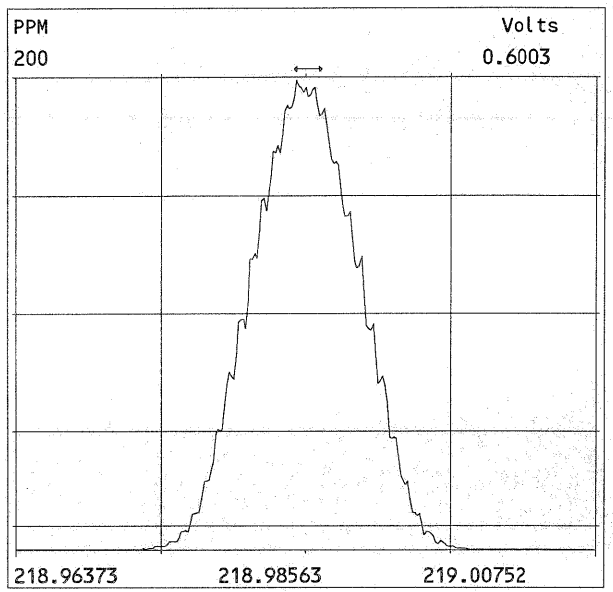


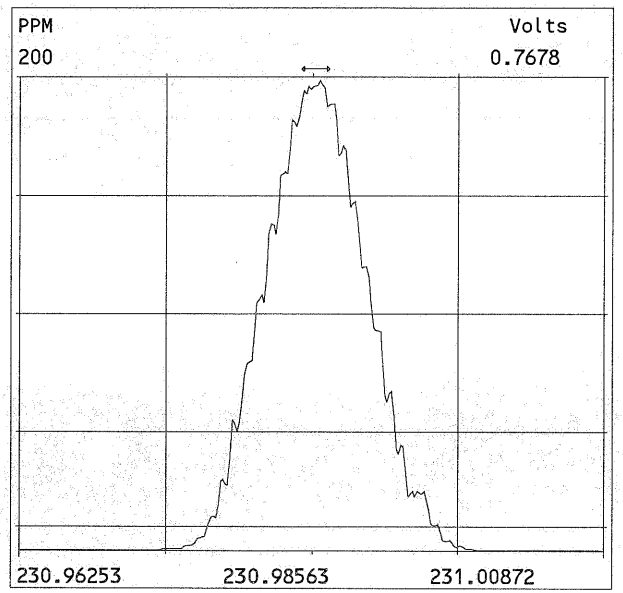


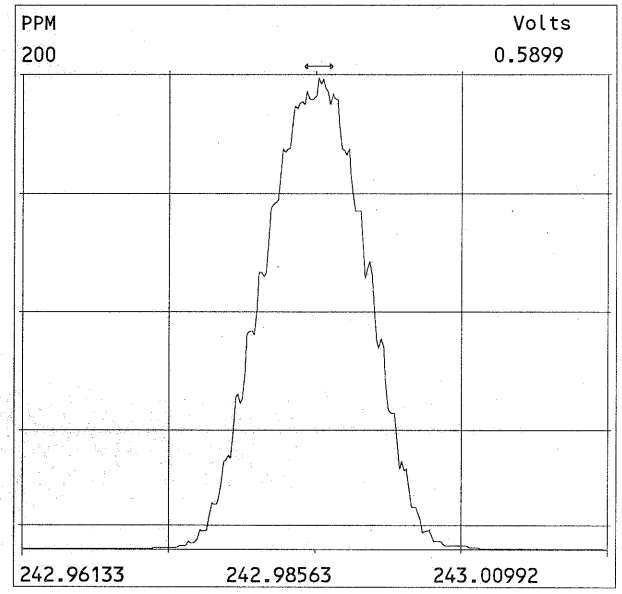


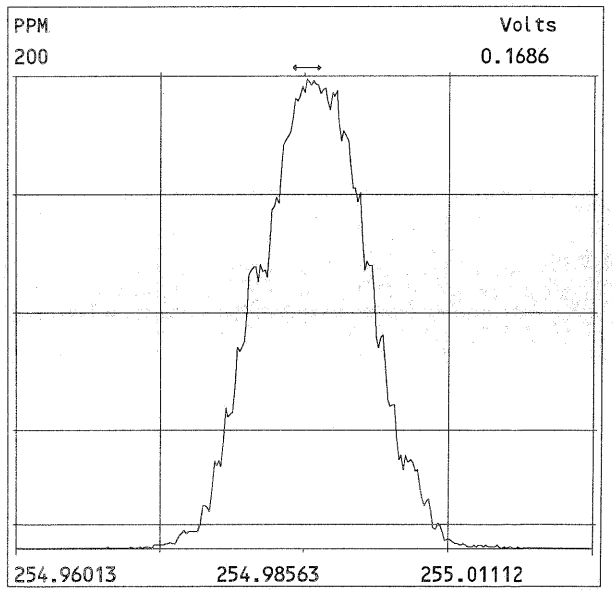


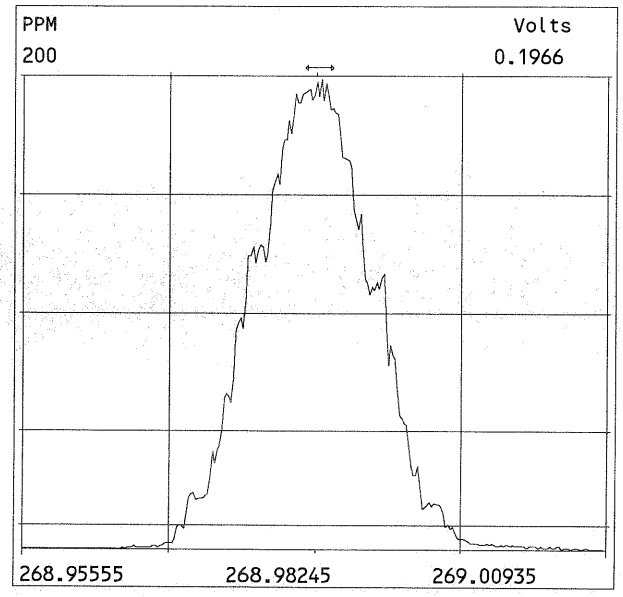
Peak Locate Examination: 2-JUL-2016:11:06 File:02JUL16Z
Experiment:1668PCB Function:2 Reference:PFK

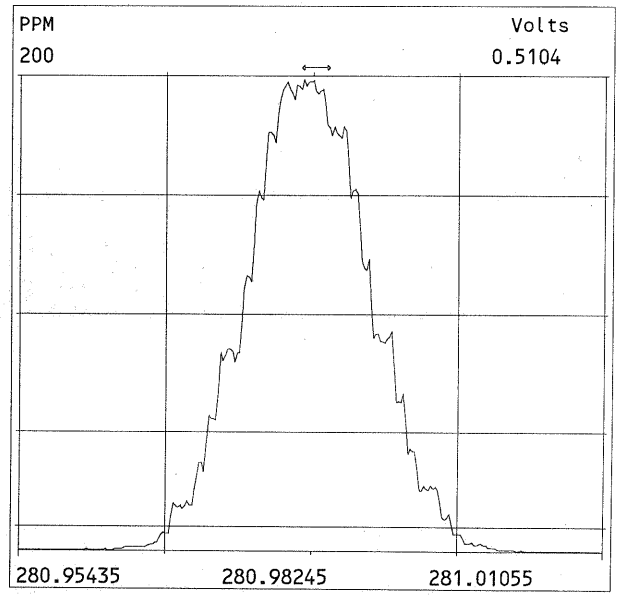




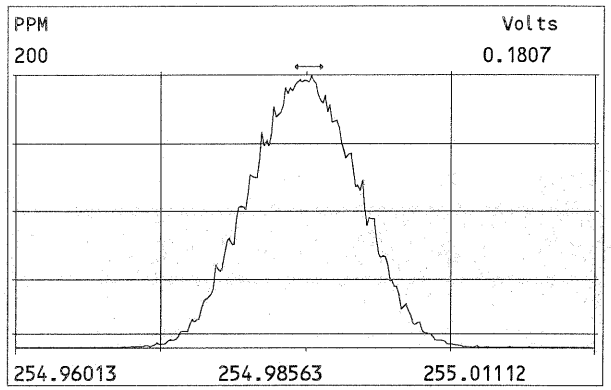


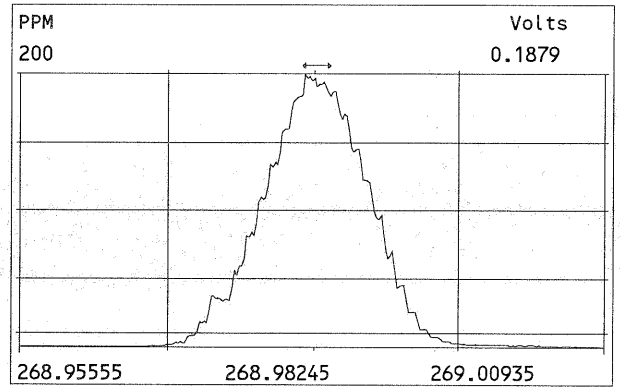


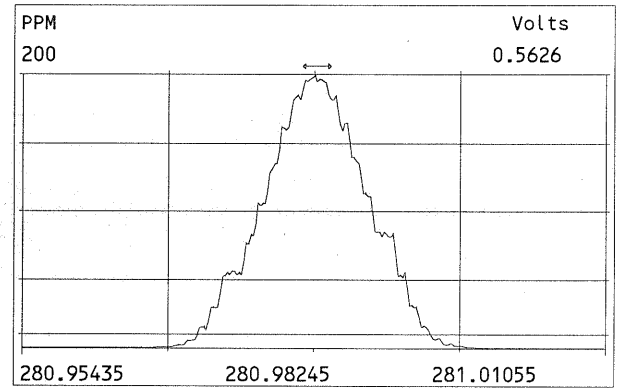


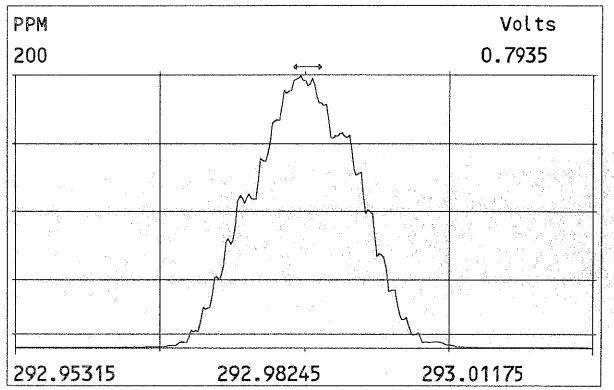


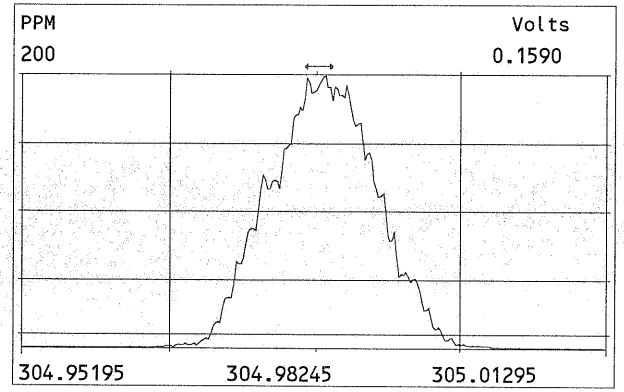
Peak Locate Examination: 2-JUL-2016:11:07 File:02JUL16Z
Experiment:1668PCB Function:3 Reference:PFK

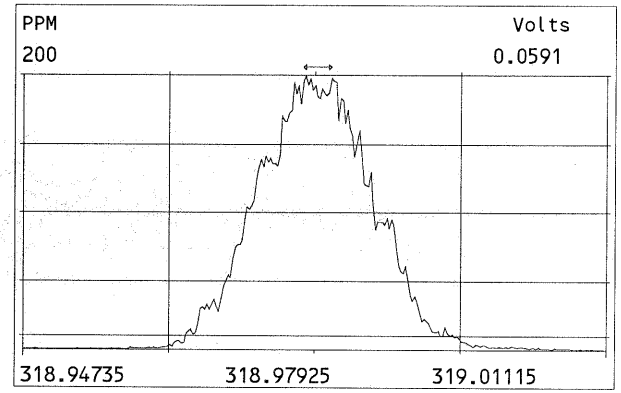


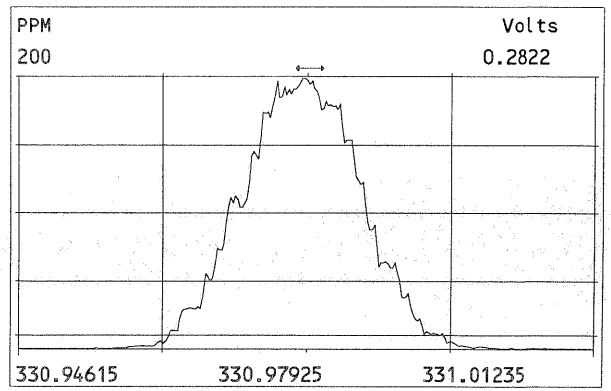


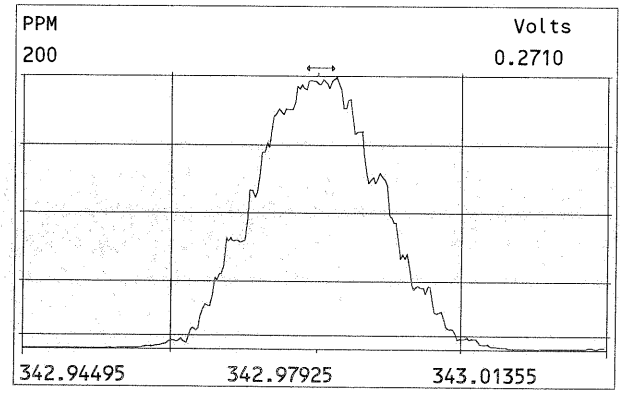




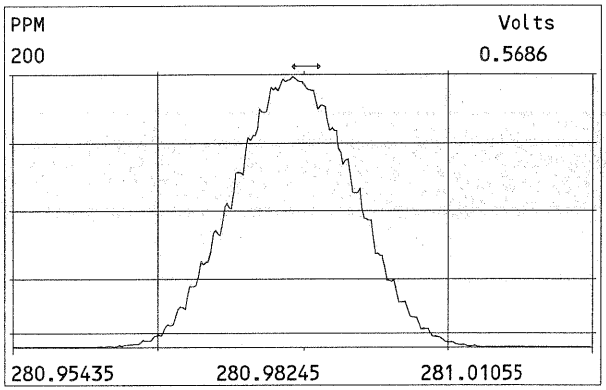


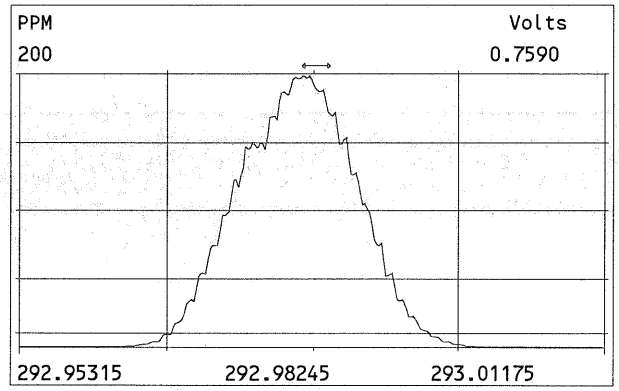


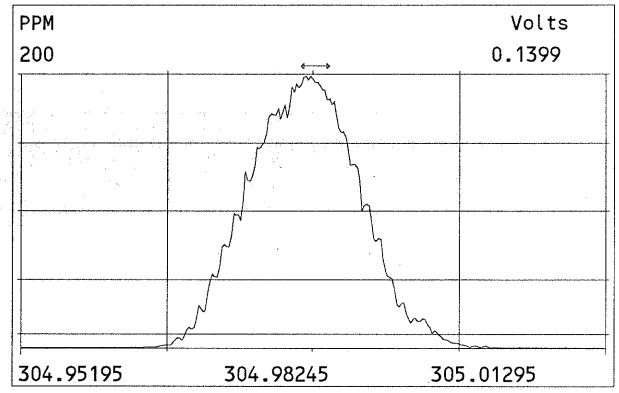


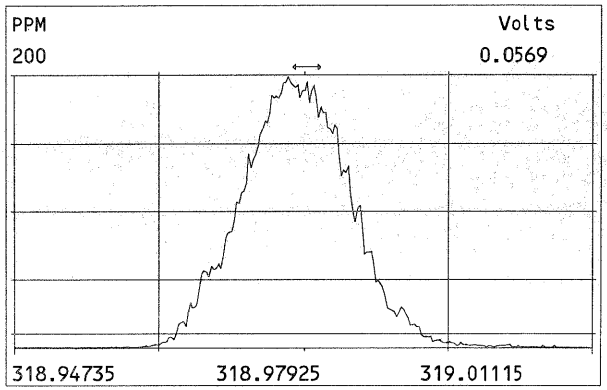


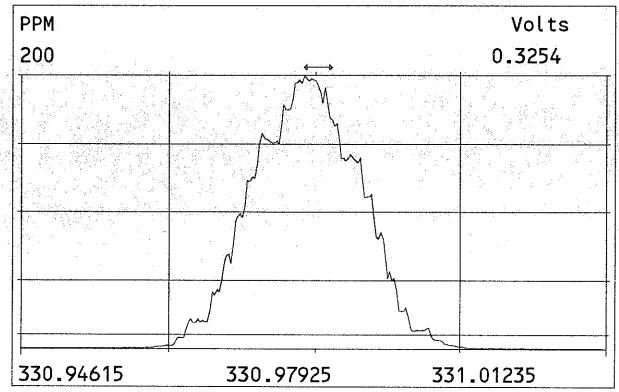
Peak Locate Examination: 2-JUL-2016:11:07 File:02JUL16Z
Experiment:1668PCB Function:4 Reference:PFK

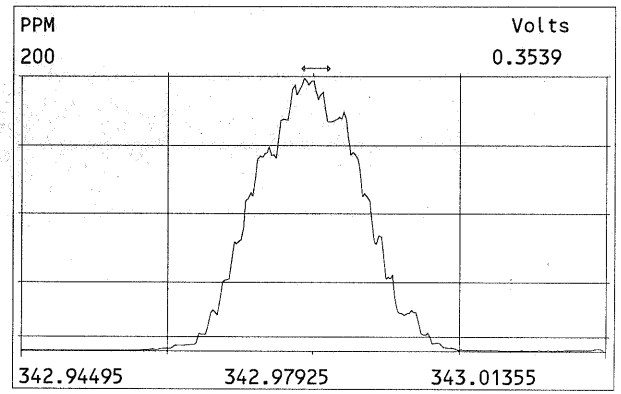


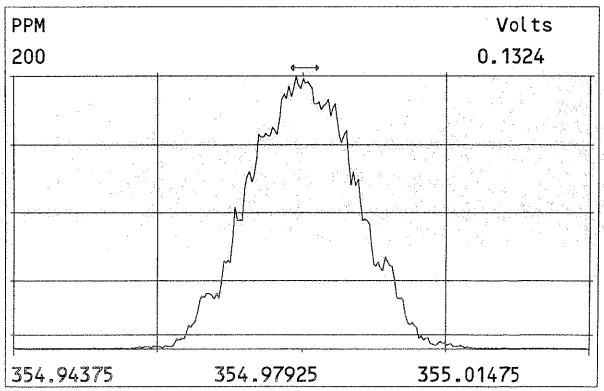


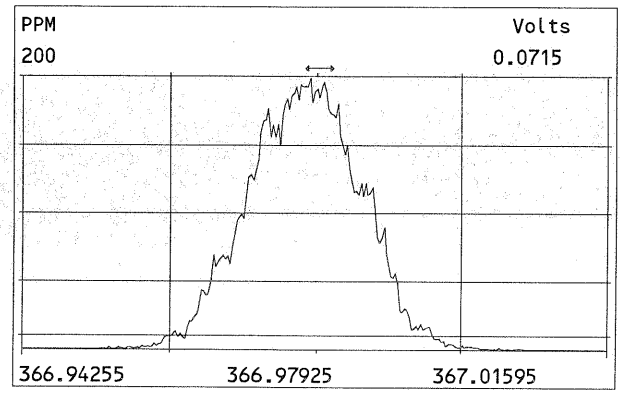


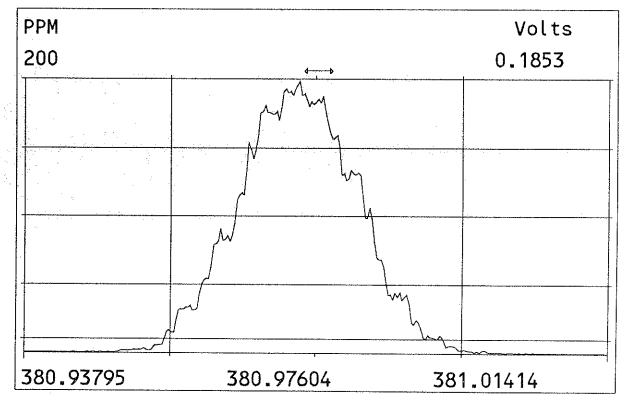




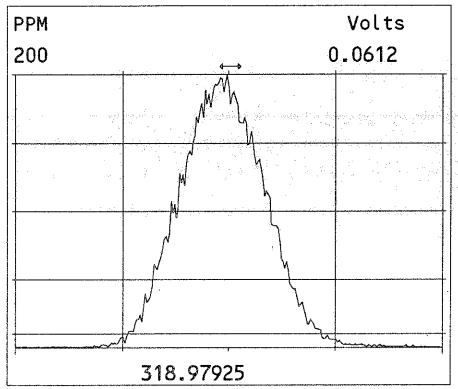


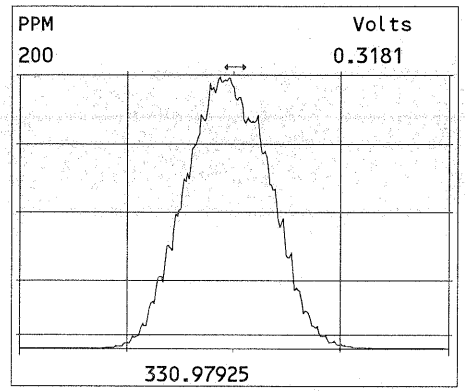


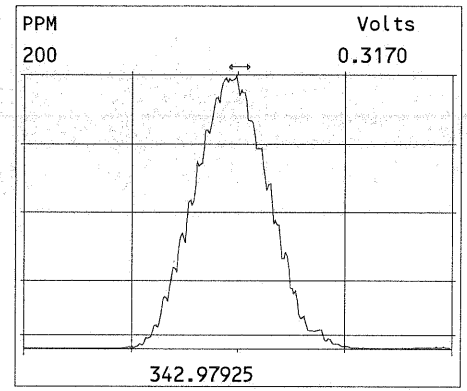


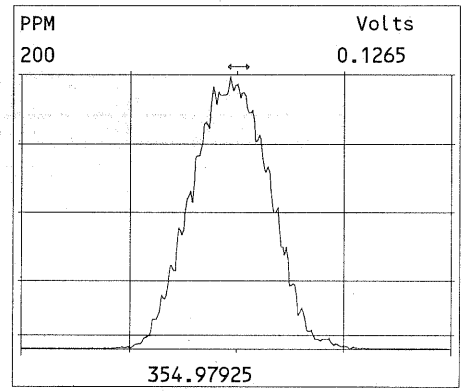


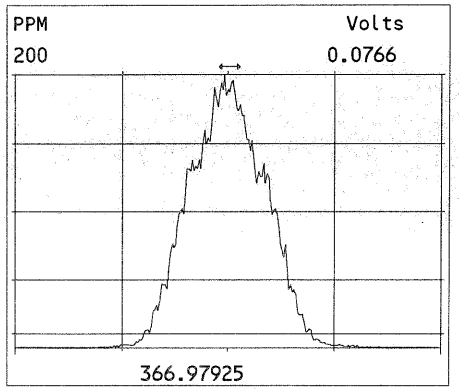
Peak Locate Examination: 2-JUL-2016:11:08 File:02JUL16Z
Experiment:1668PCB Function:5 Reference:PFK

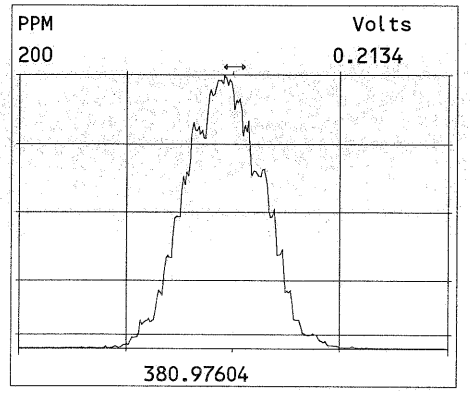


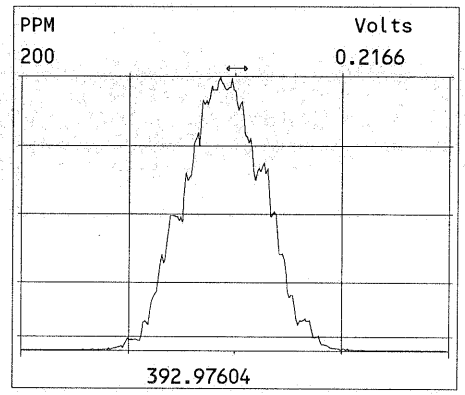


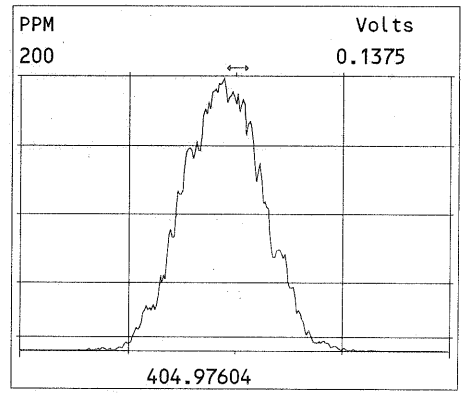


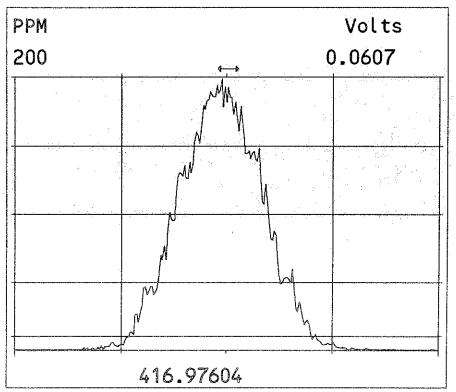


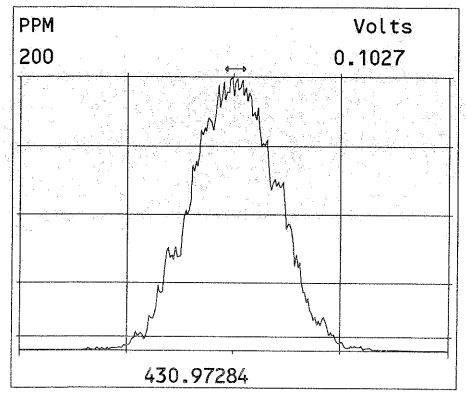


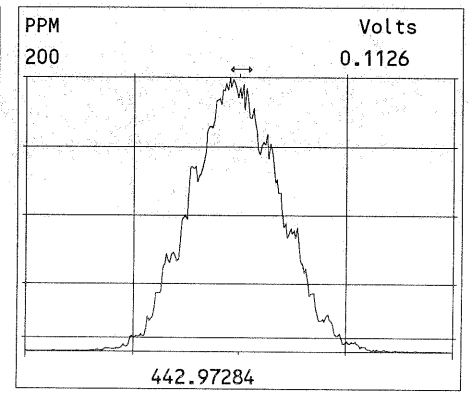




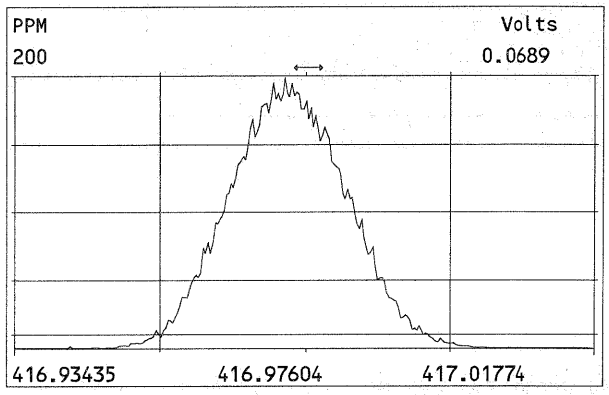


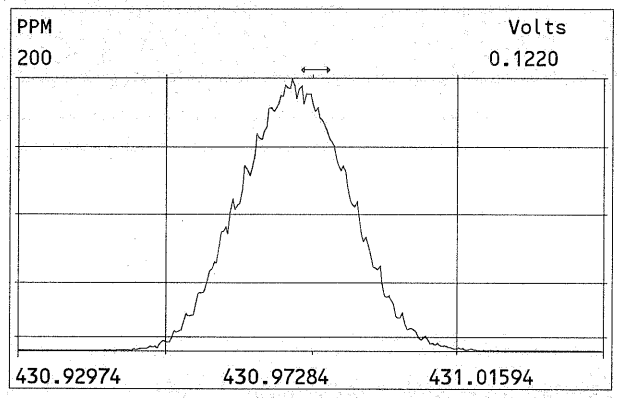


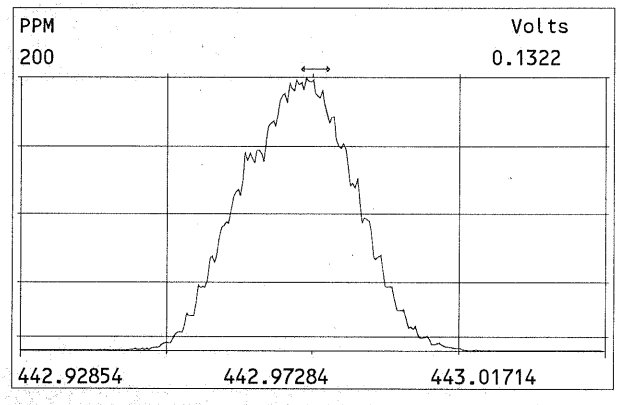


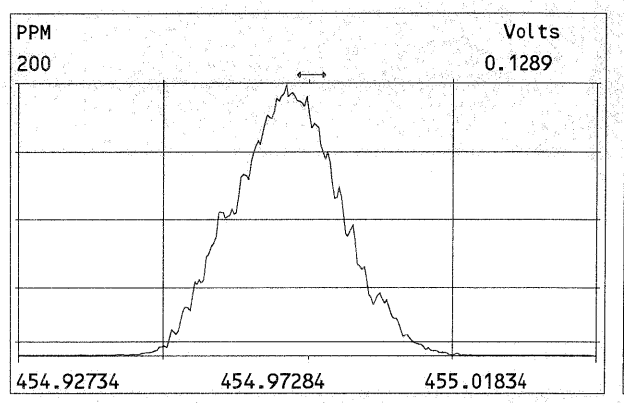


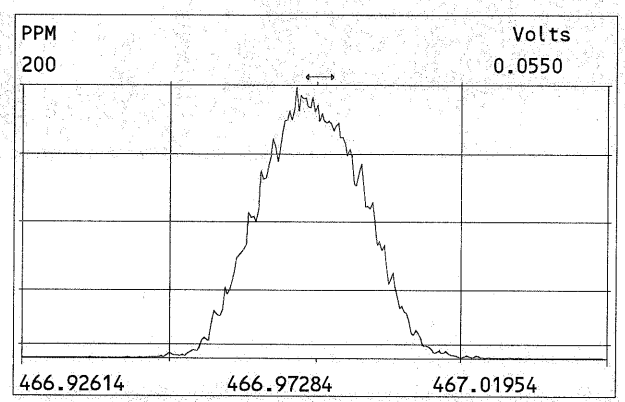
Peak Locate Examination: 2-JUL-2016:11:09 File:02JUL16Z
Experiment:1668PCB Function:6 Reference:PFK

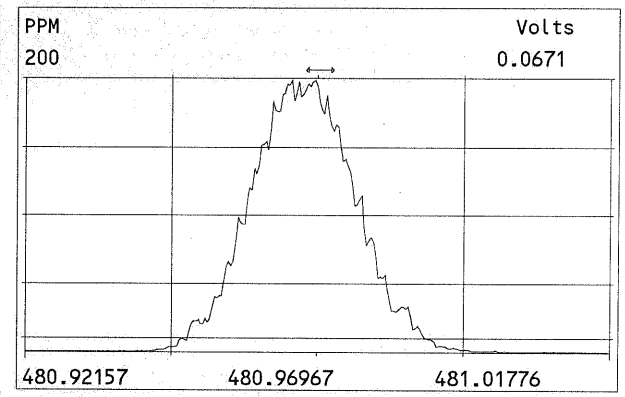


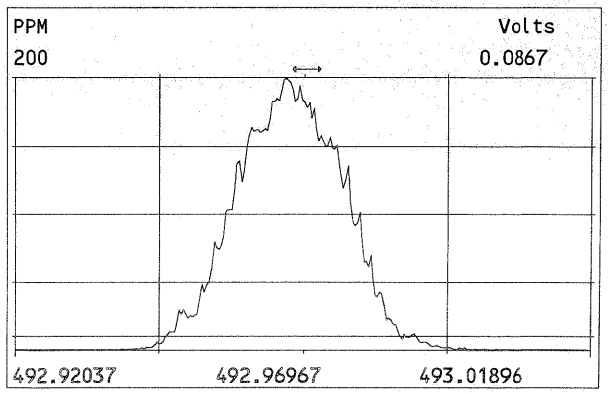


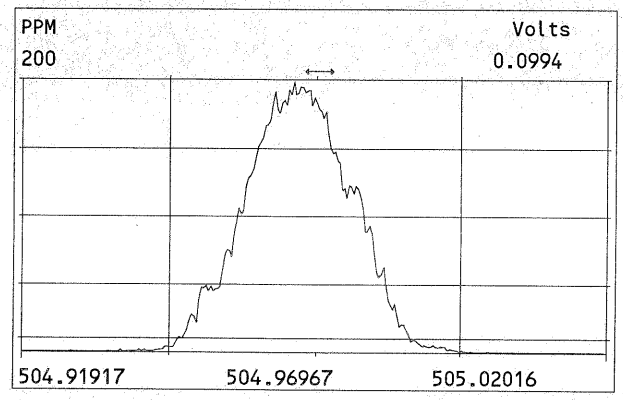


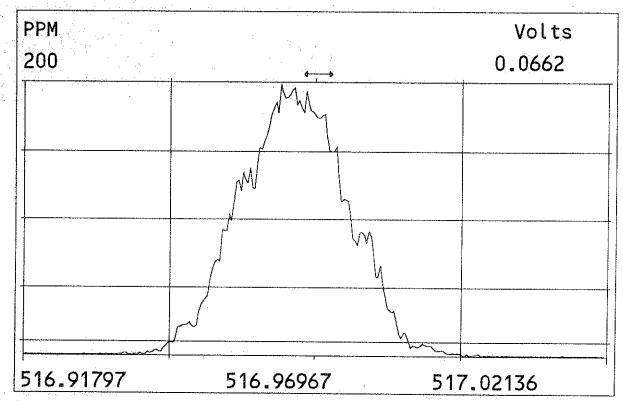




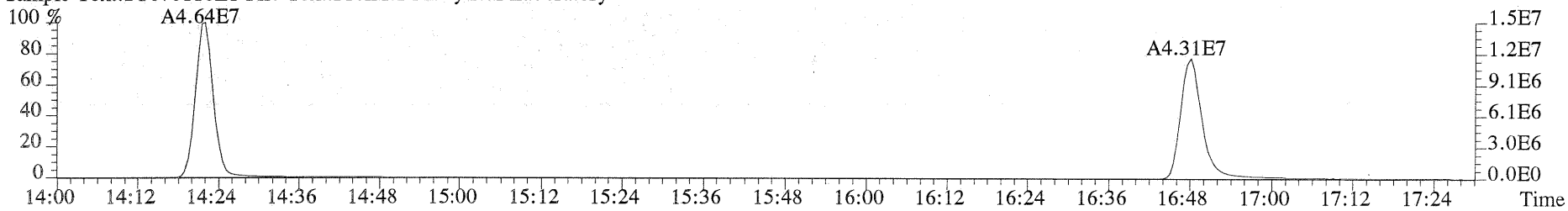




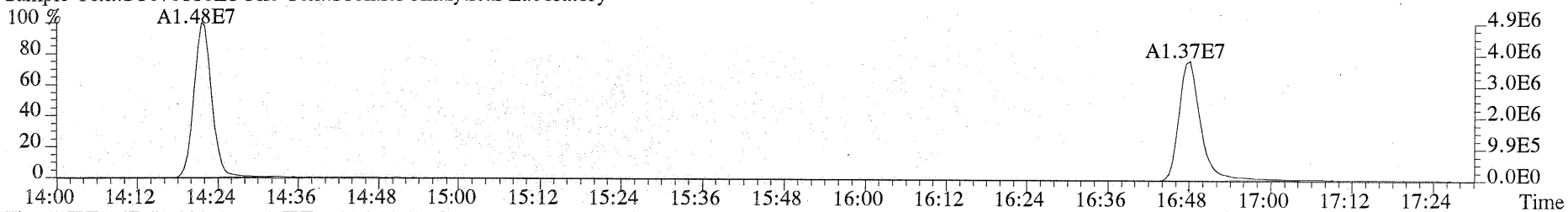




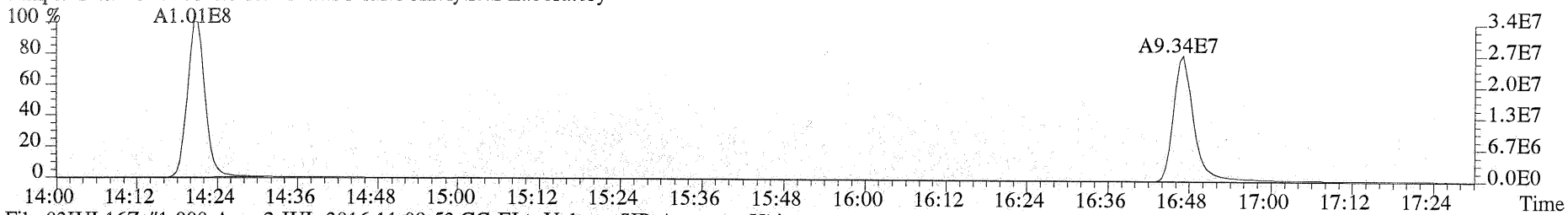
File:02JUL16Z #1-900 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-900 Acq: 2-JUL-2016 11:09:53 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:ST070116Z1 File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-900 Acq: 2-JUL-2016 11:09:53 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:ST070116Z1 File Text:Frontier Analytical Laboratory



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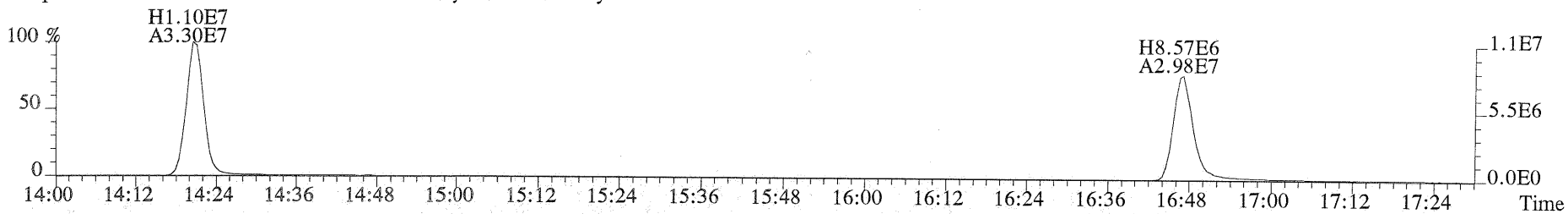
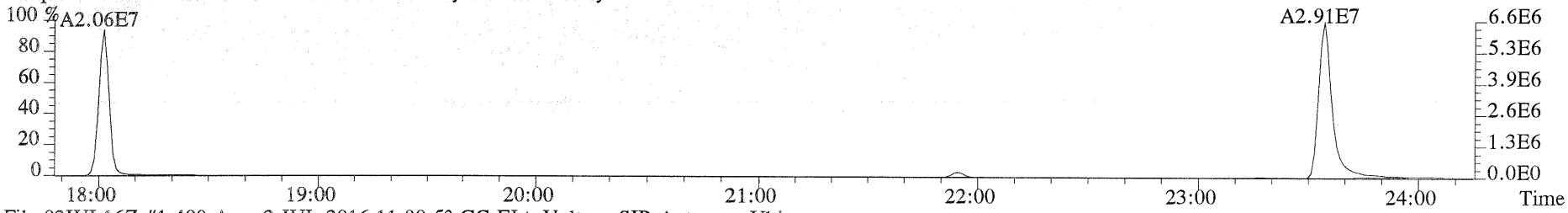
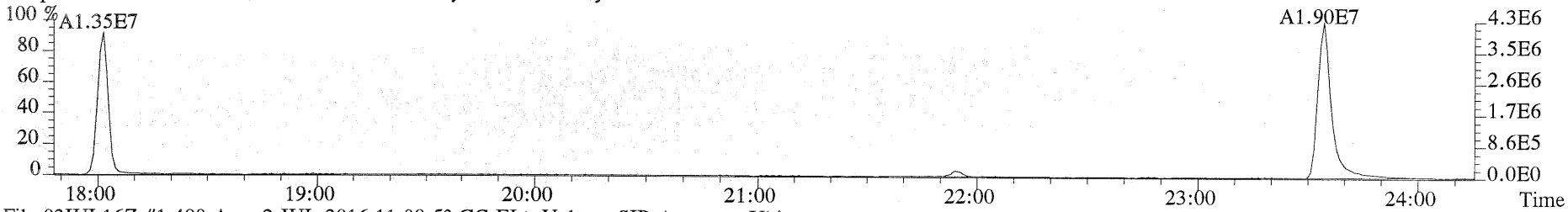
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



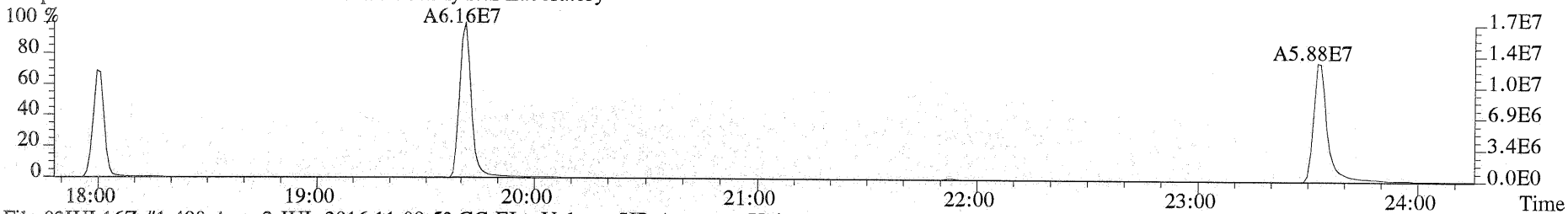
File:02JUL16Z #1-498 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



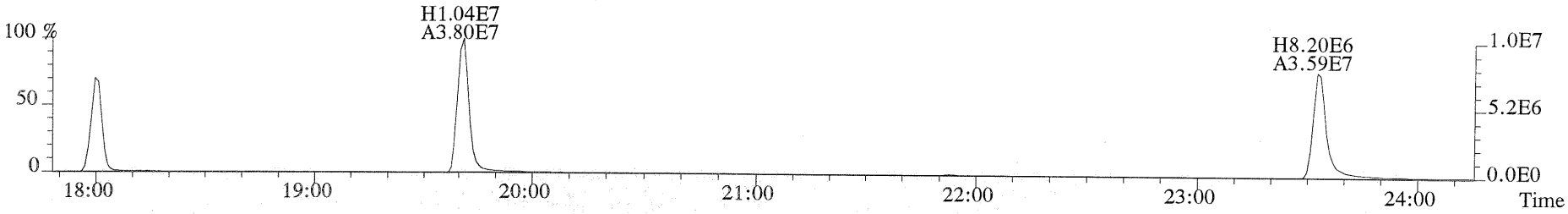
File:02JUL16Z #1-498 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



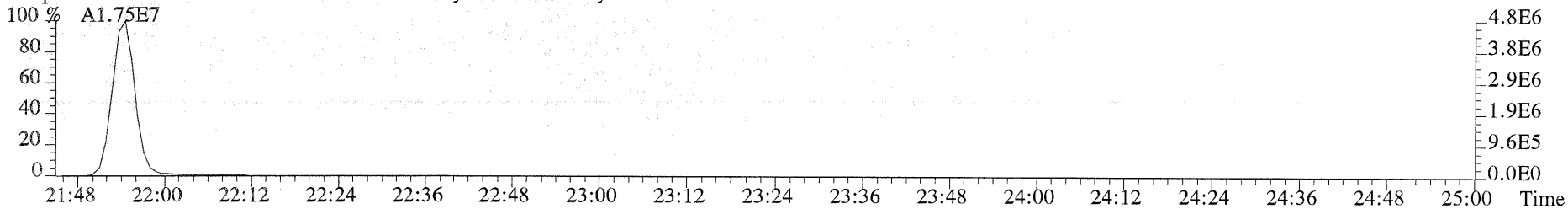
File:02JUL16Z #1-498 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



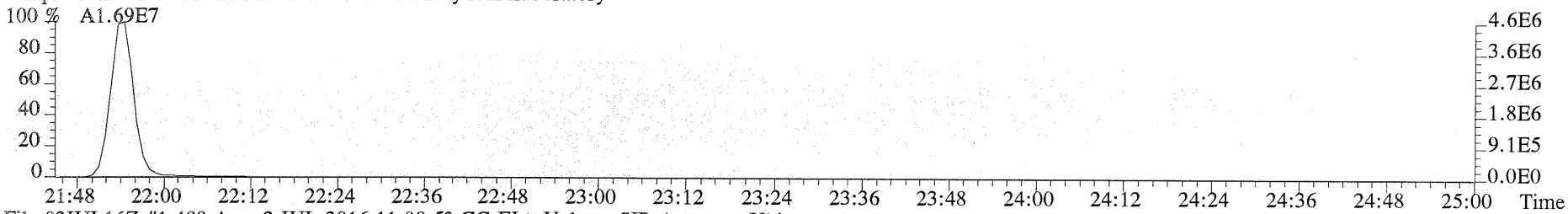
File:02JUL16Z #1-498 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



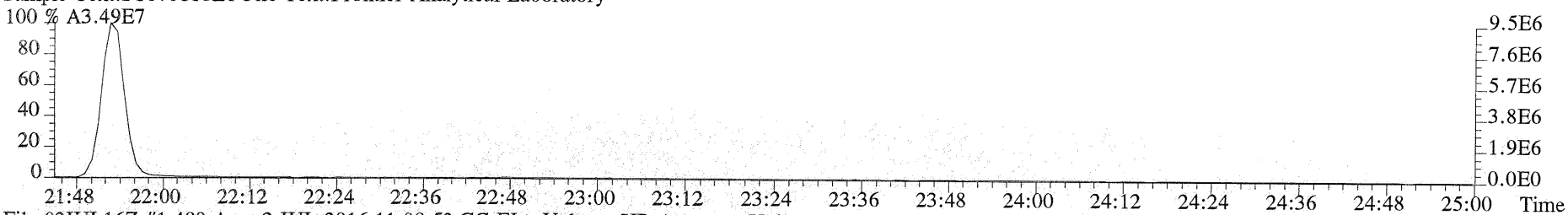
File:02JUL16Z #1-498 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



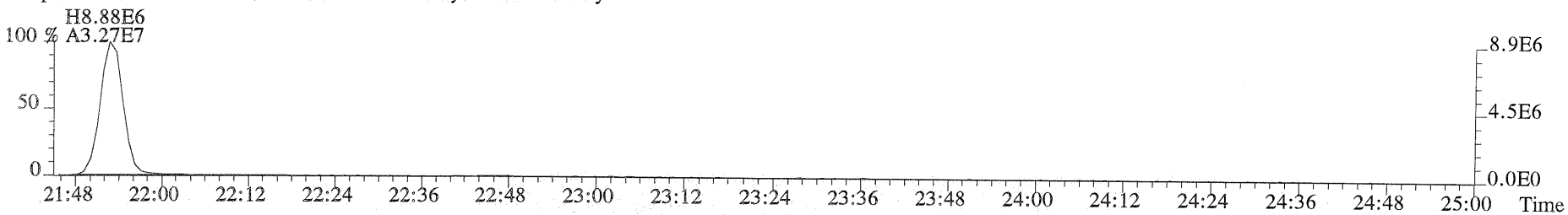
File:02JUL16Z #1-498 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



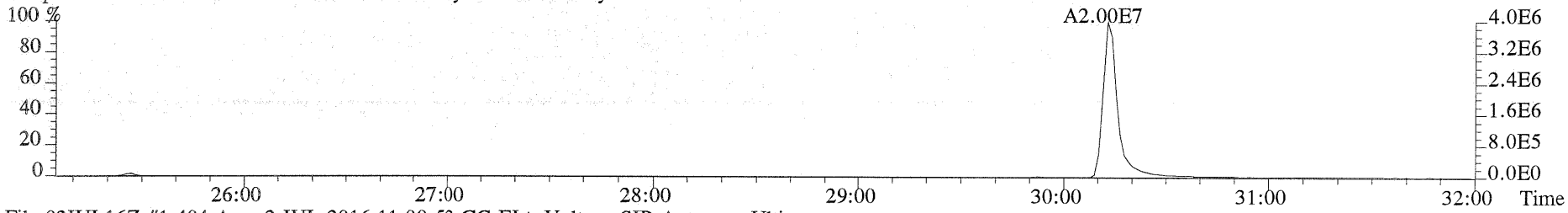
File:02JUL16Z #1-498 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



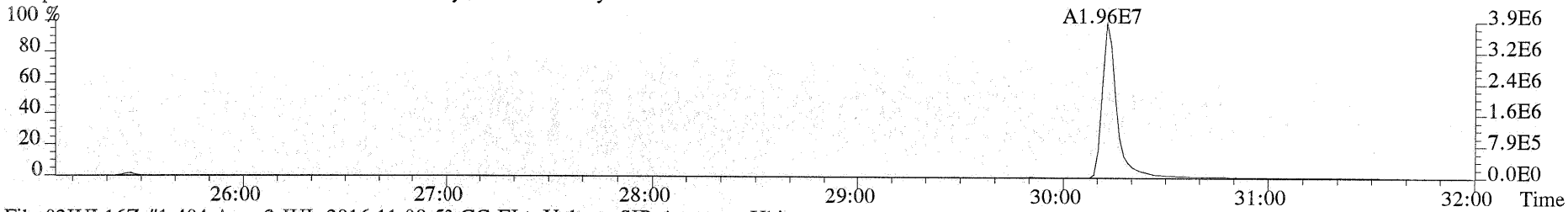
File:02JUL16Z #1-498 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



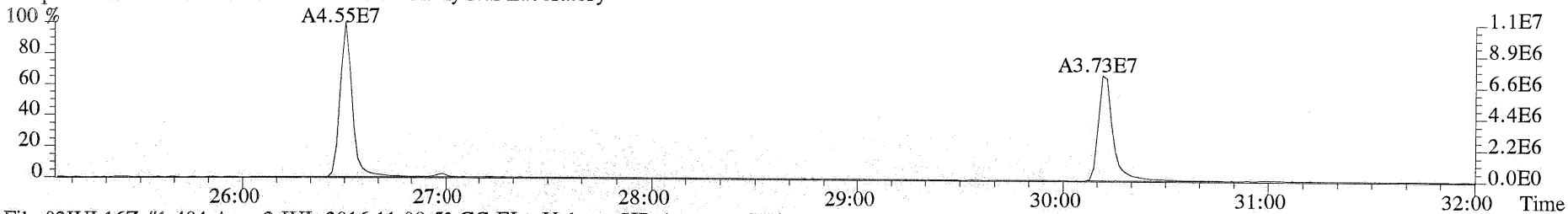
File:02JUL16Z #1-404 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



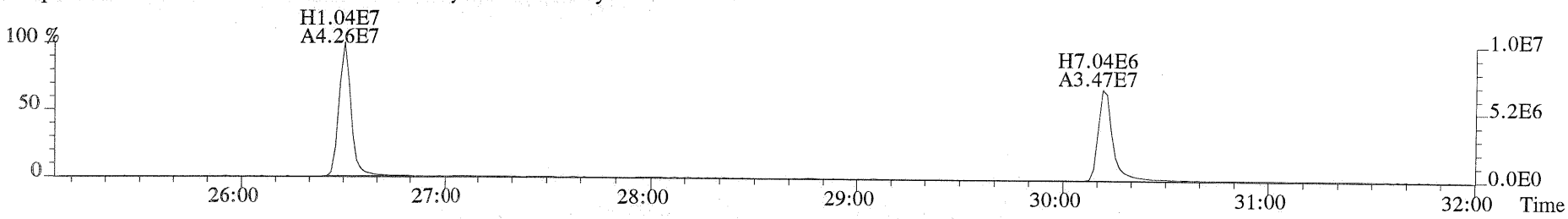
File:02JUL16Z #1-404 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



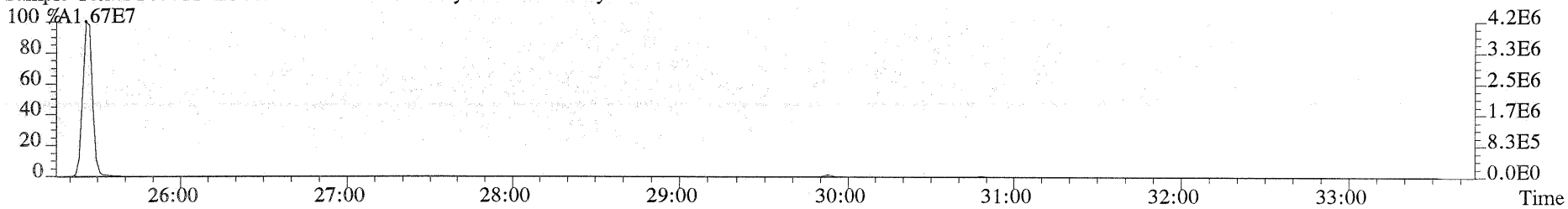
File:02JUL16Z #1-404 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



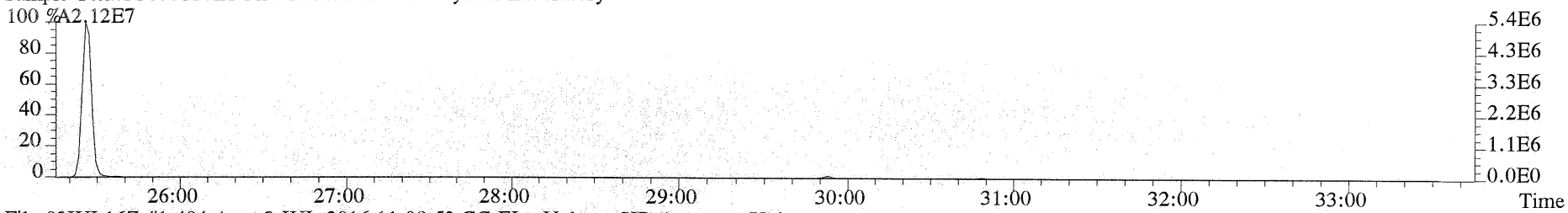
File:02JUL16Z #1-404 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



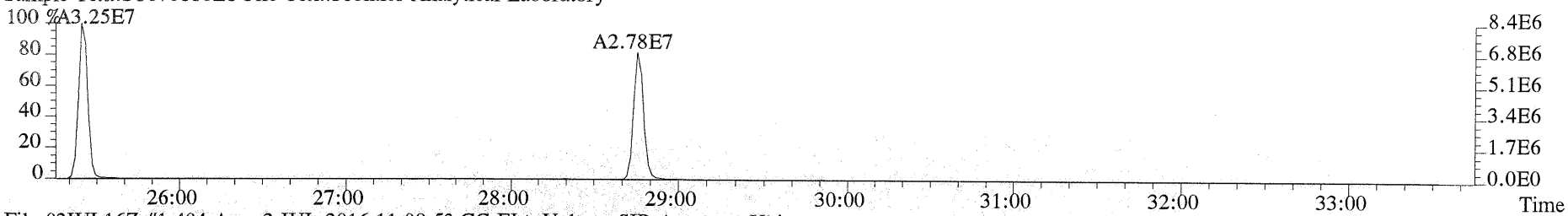
File:02JUL16Z #1-404 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



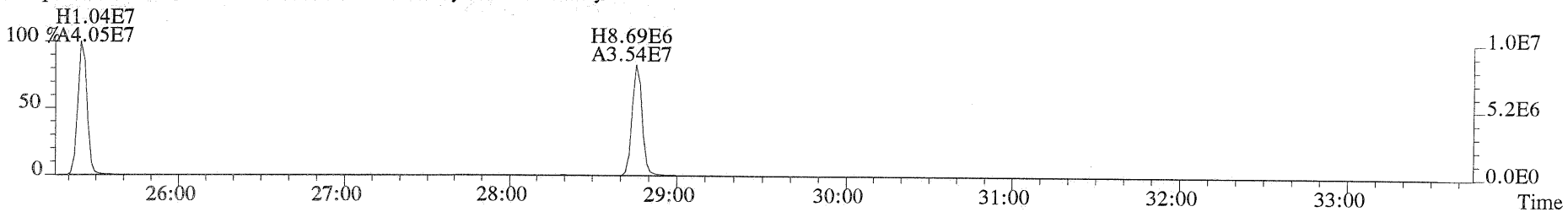
File:02JUL16Z #1-404 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



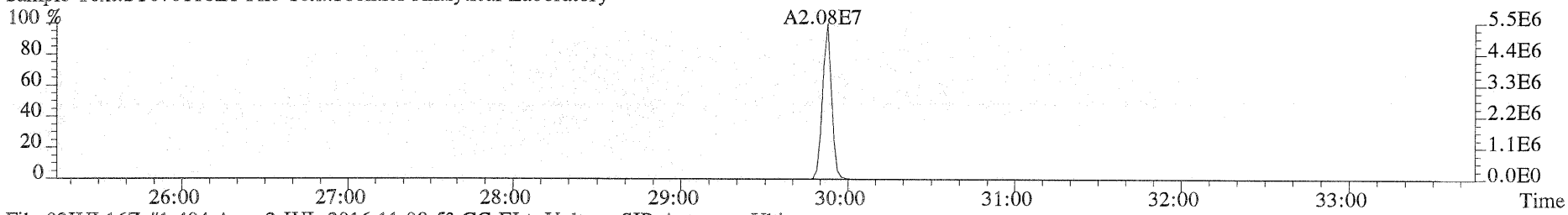
File:02JUL16Z #1-404 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



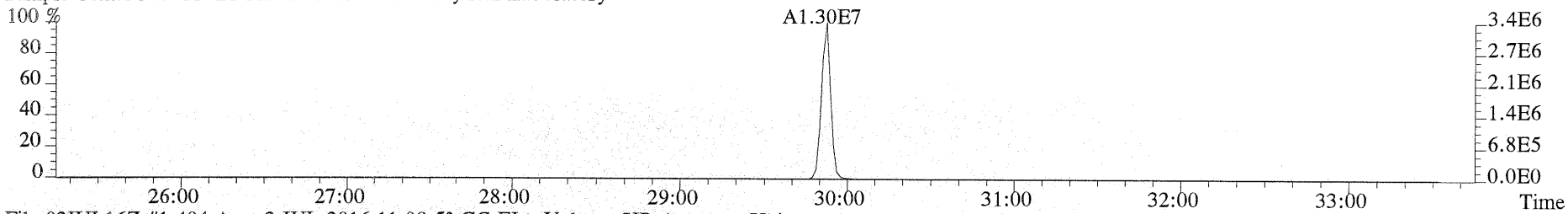
File:02JUL16Z #1-404 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



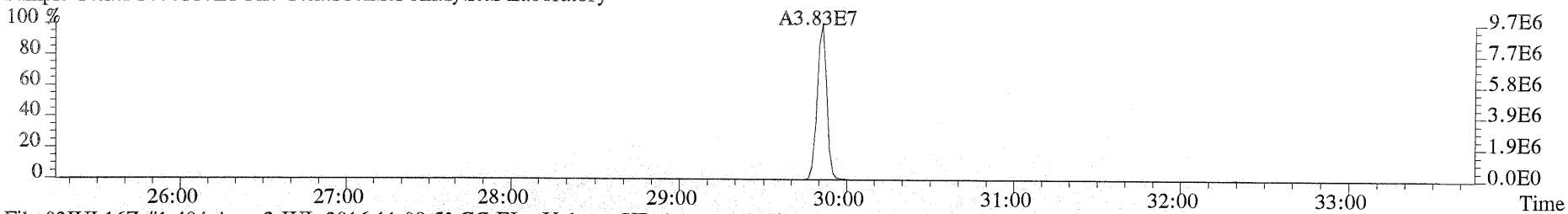
File:02JUL16Z #1-404 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



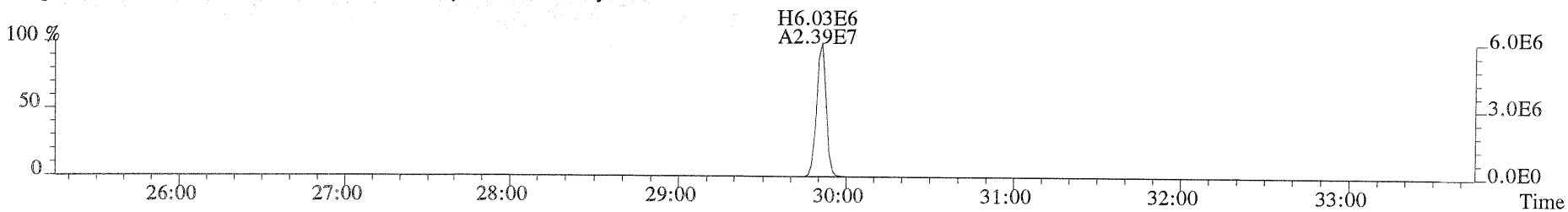
File:02JUL16Z #1-404 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



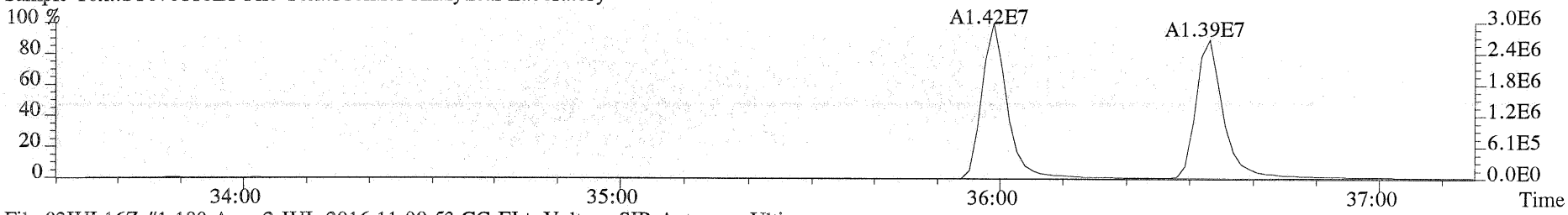
File:02JUL16Z #1-404 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



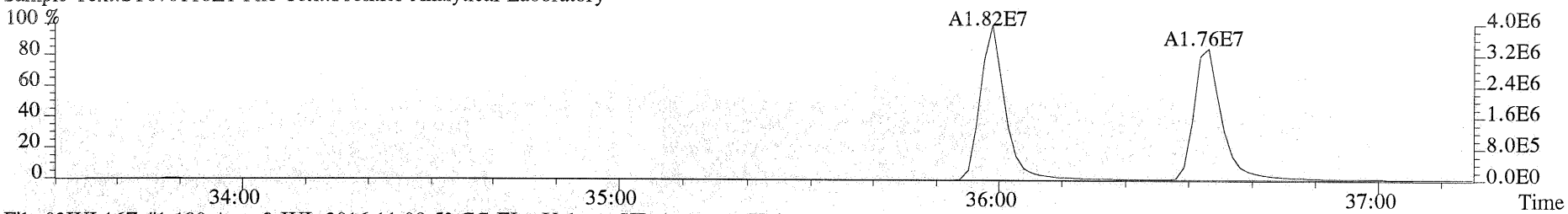
File:02JUL16Z #1-404 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



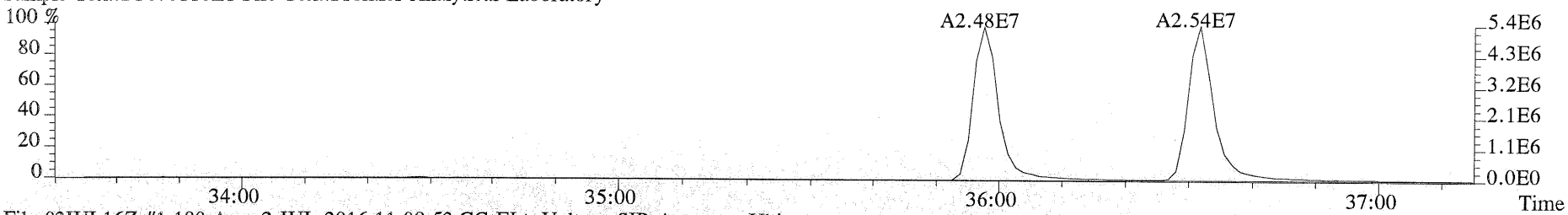
File:02JUL16Z #1-180 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



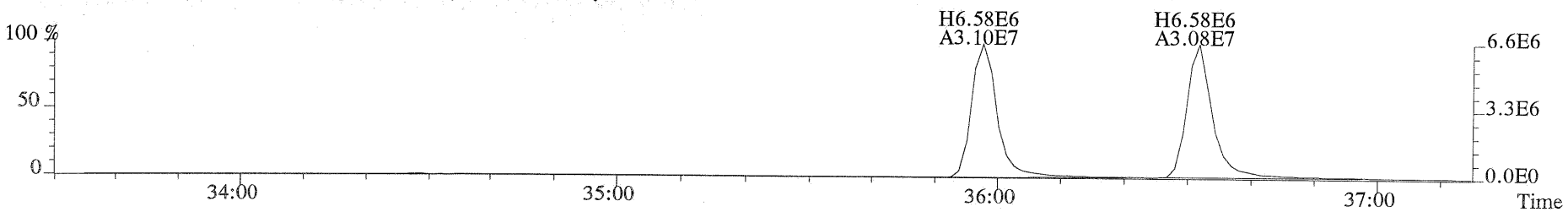
File:02JUL16Z #1-180 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



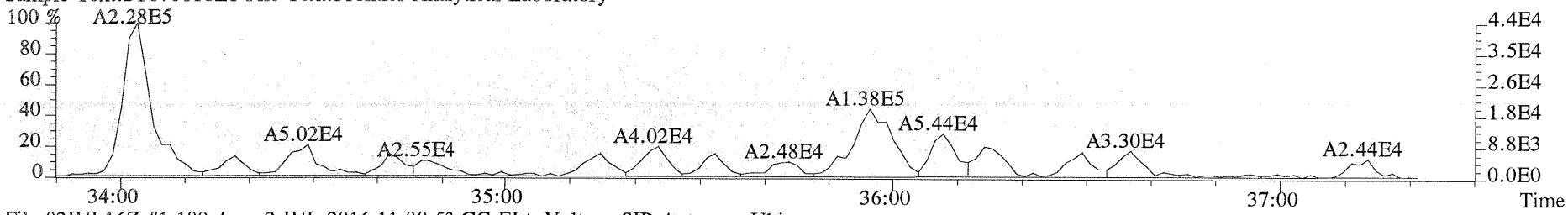
File:02JUL16Z #1-180 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



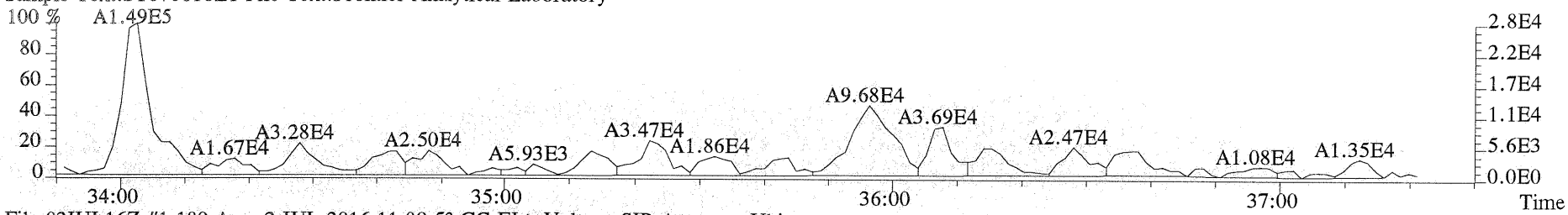
File:02JUL16Z #1-180 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



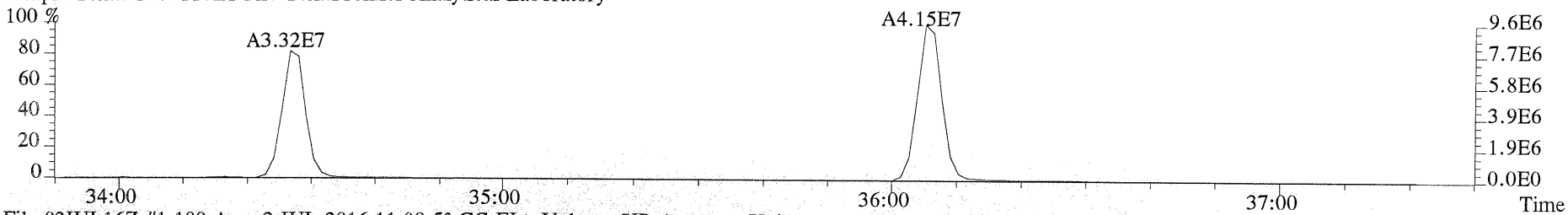
File:02JUL16Z #1-180 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



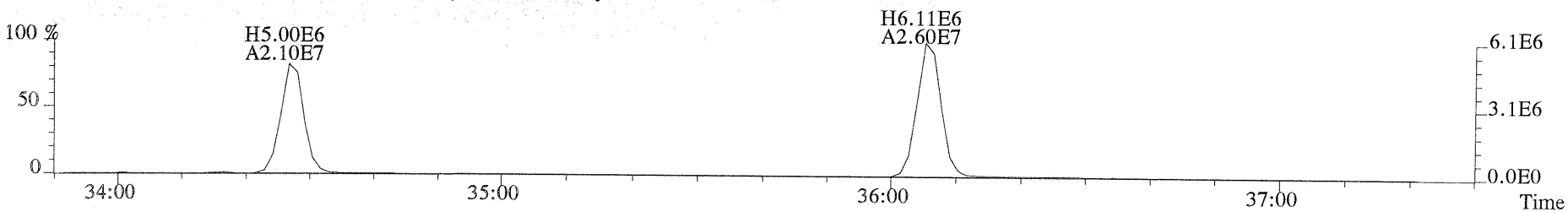
File:02JUL16Z #1-180 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



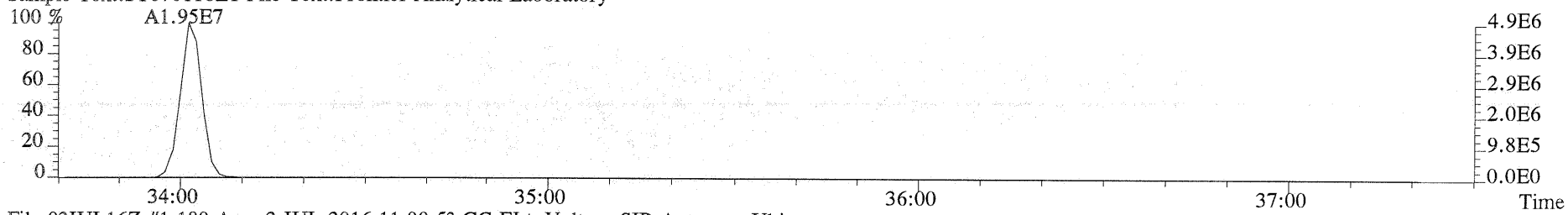
File:02JUL16Z #1-180 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



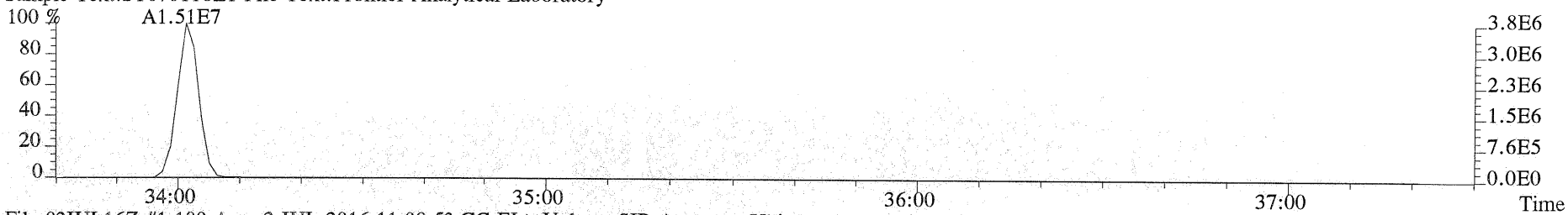
File:02JUL16Z #1-180 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



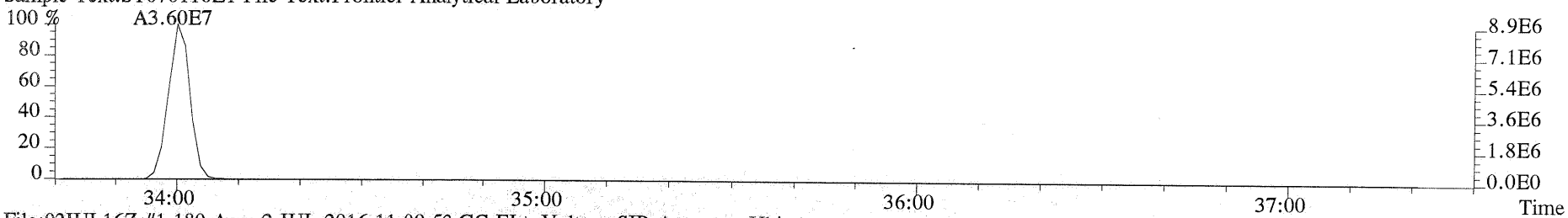
File:02JUL16Z #1-180 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



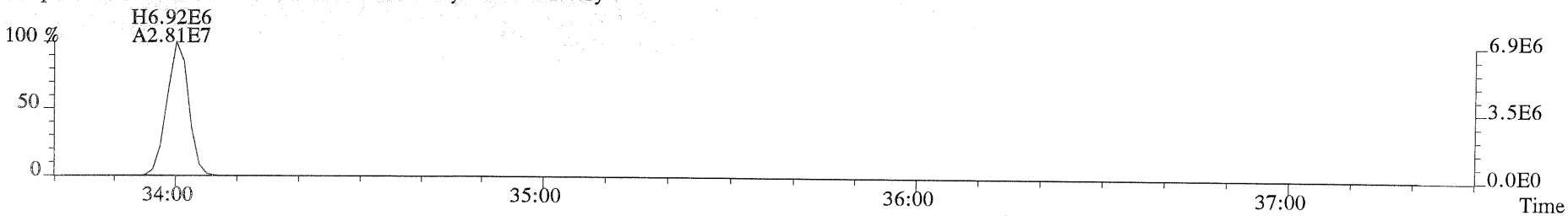
File:02JUL16Z #1-180 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



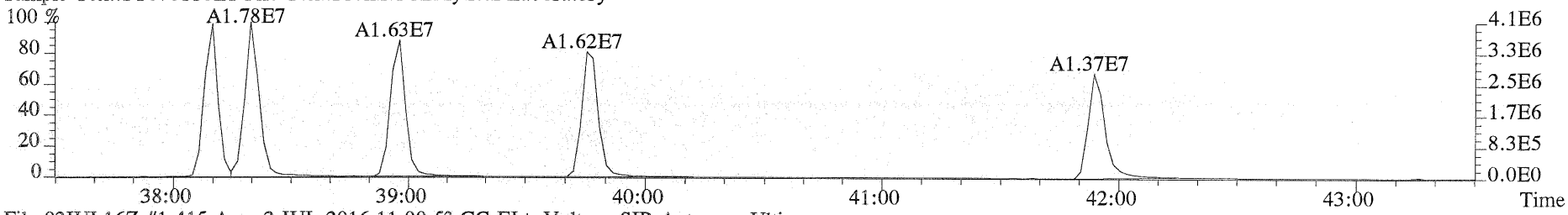
File:02JUL16Z #1-180 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



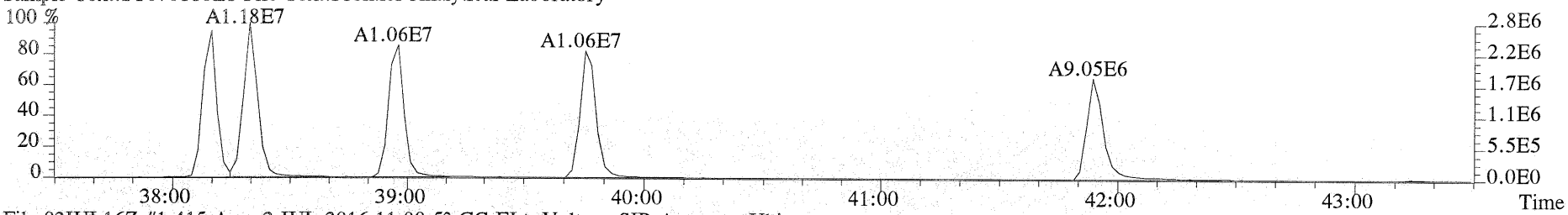
File:02JUL16Z #1-180 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



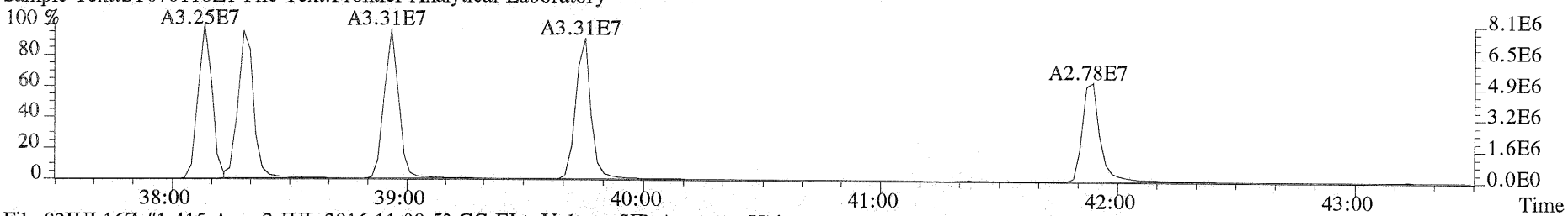
File:02JUL16Z #1-415 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



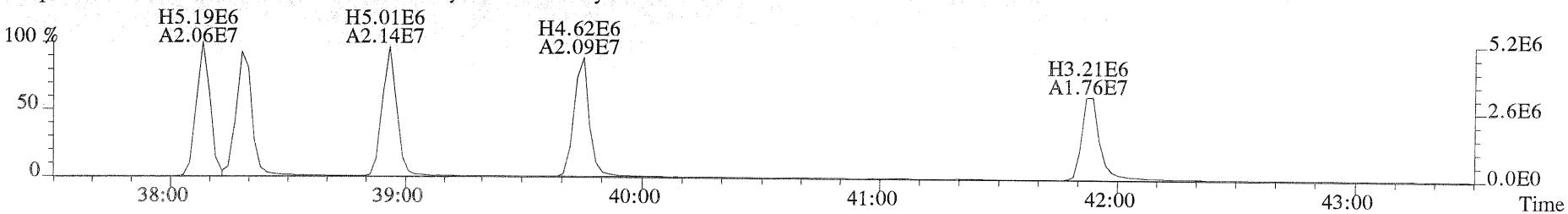
File:02JUL16Z #1-415 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



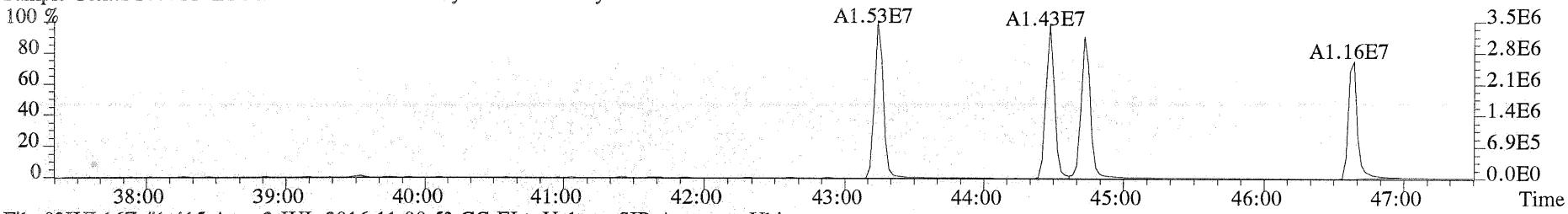
File:02JUL16Z #1-415 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



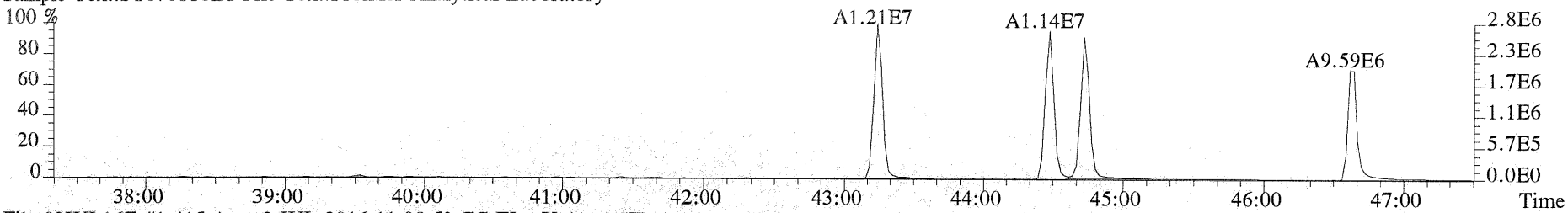
File:02JUL16Z #1-415 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



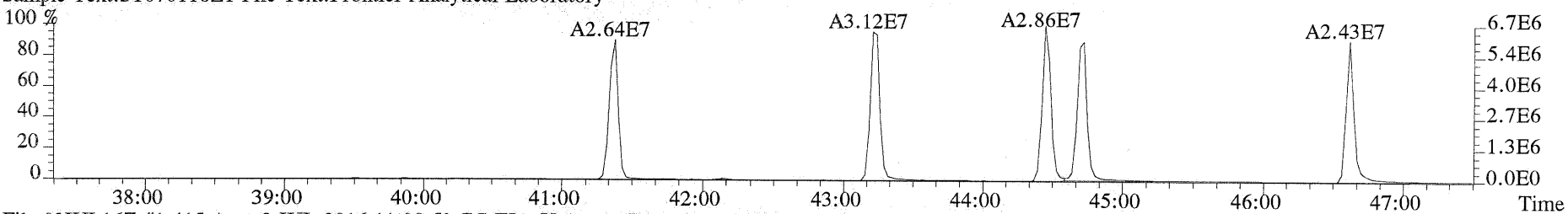
File:02JUL16Z #1-415 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



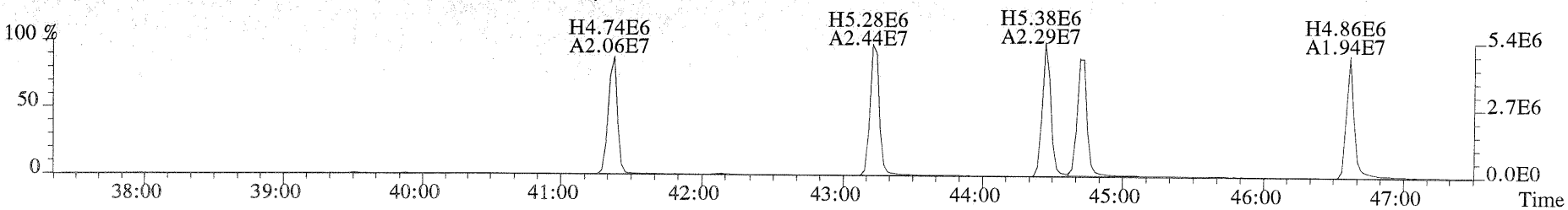
File:02JUL16Z #1-415 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



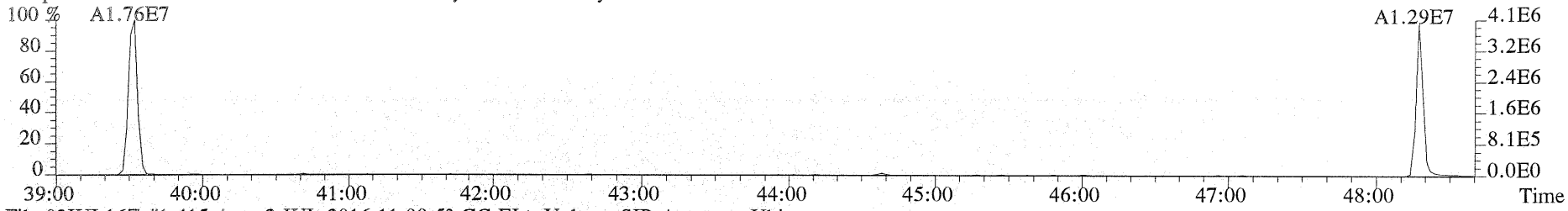
File:02JUL16Z #1-415 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



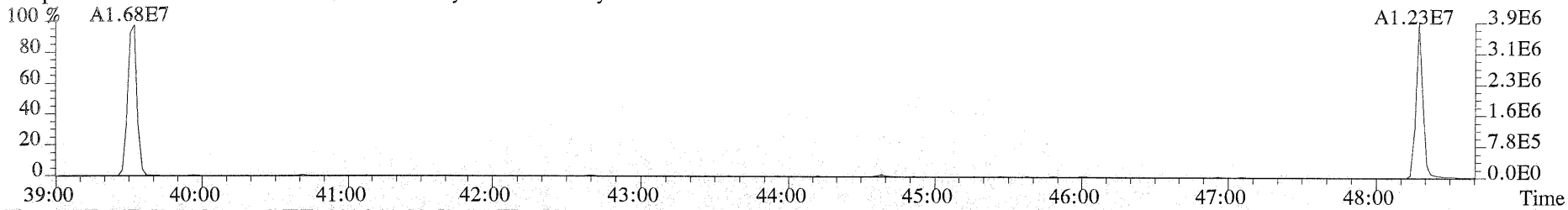
File:02JUL16Z #1-415 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



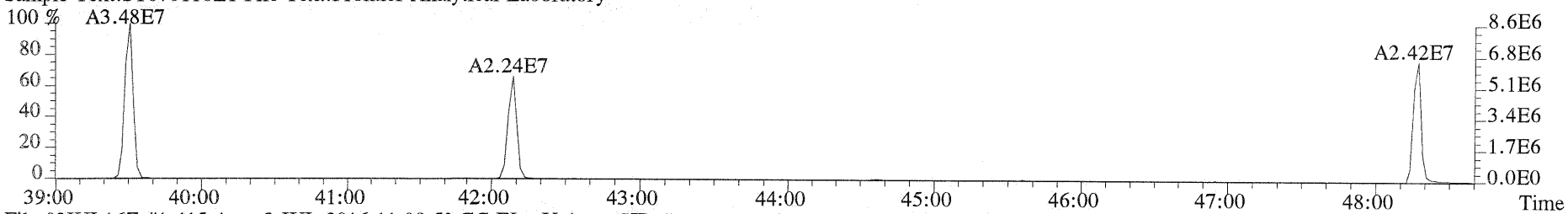
File:02JUL16Z #1-415 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



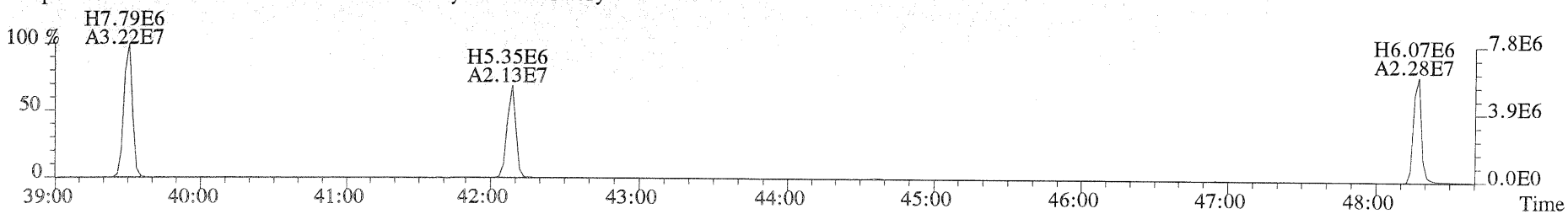
File:02JUL16Z #1-415 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



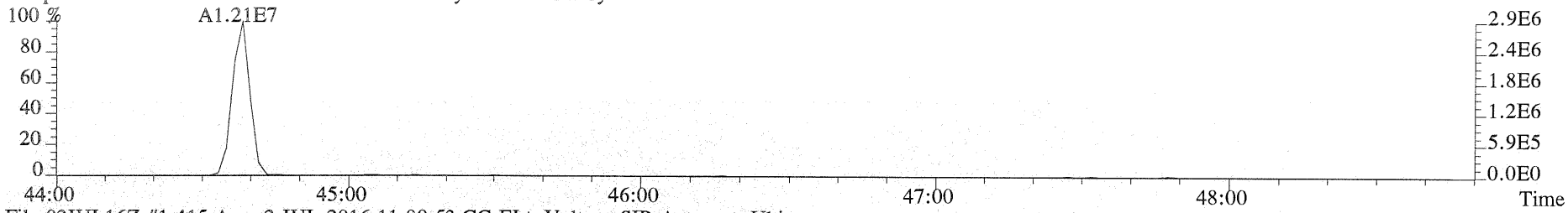
File:02JUL16Z #1-415 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



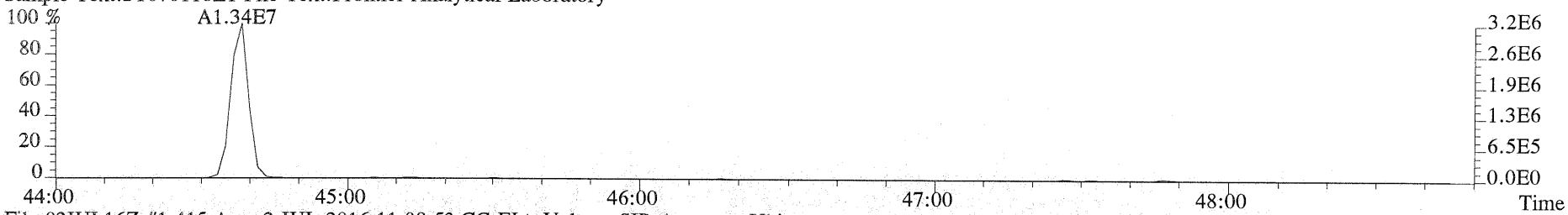
File:02JUL16Z #1-415 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



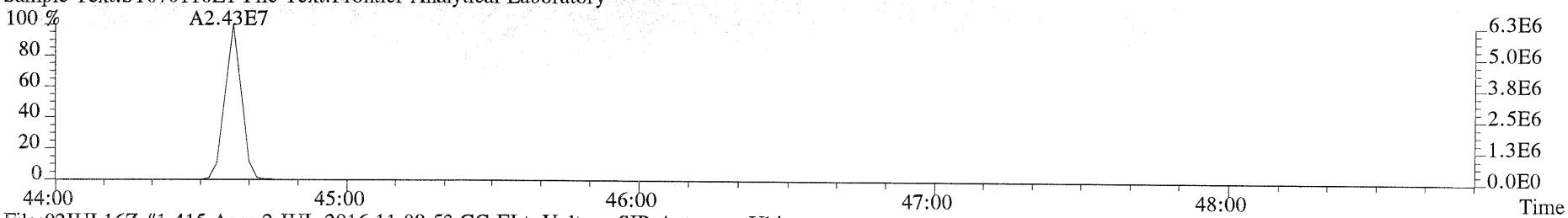
File:02JUL16Z #1-415 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



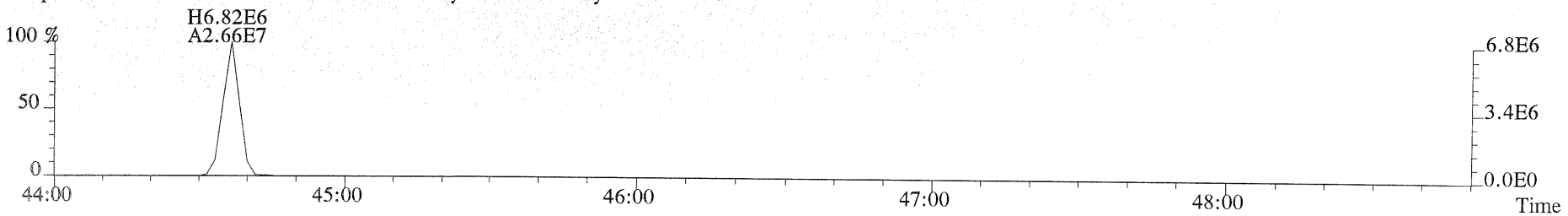
File:02JUL16Z #1-415 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



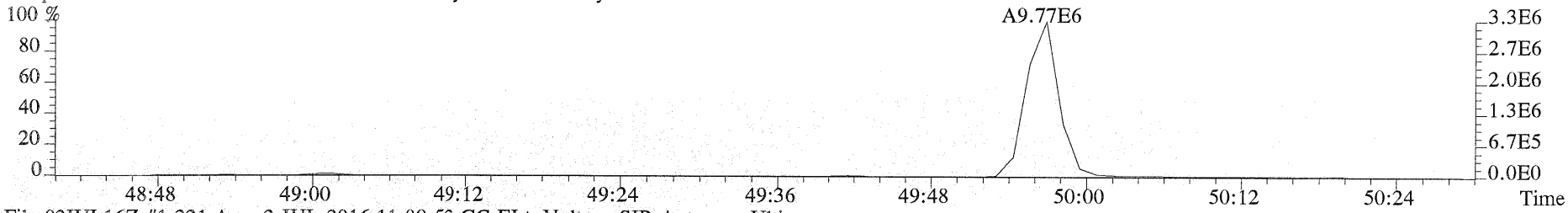
File:02JUL16Z #1-415 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



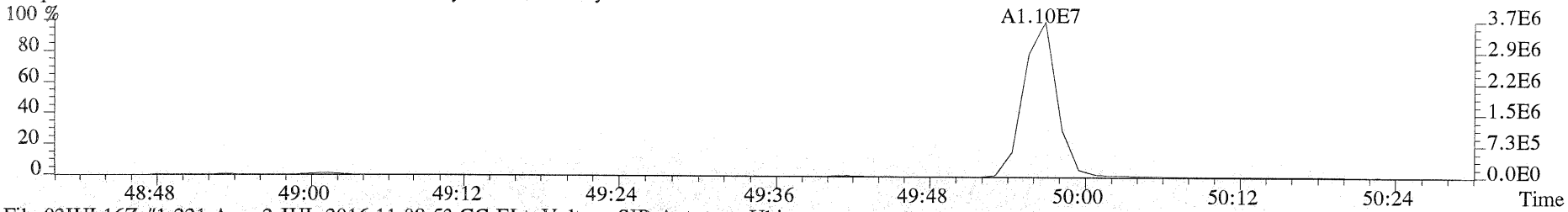
File:02JUL16Z #1-415 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



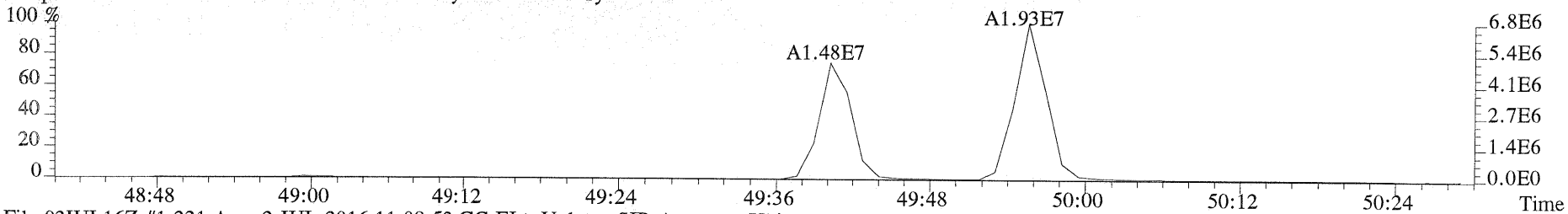
File:02JUL16Z #1-221 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



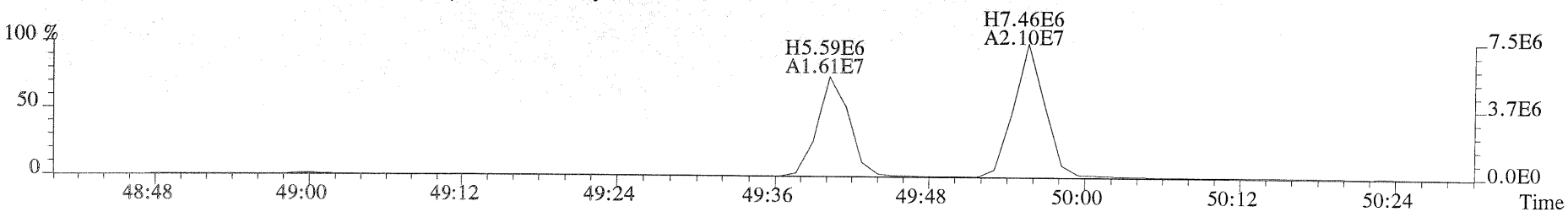
File:02JUL16Z #1-221 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



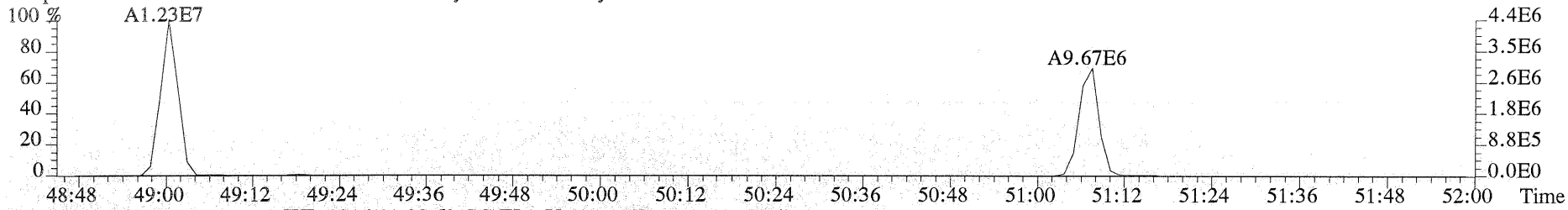
File:02JUL16Z #1-221 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



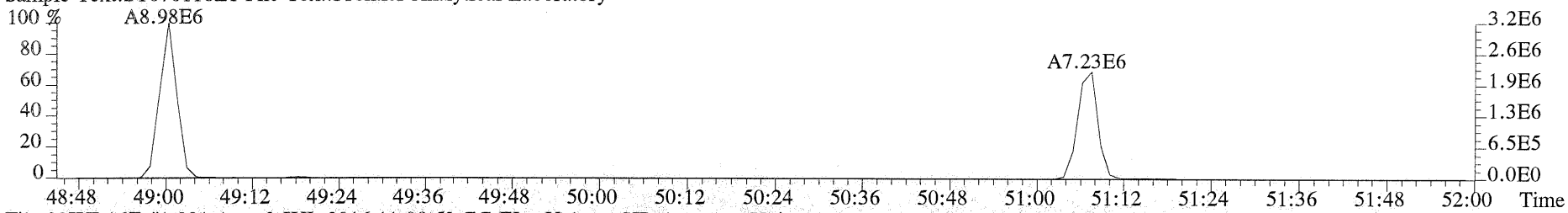
File:02JUL16Z #1-221 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



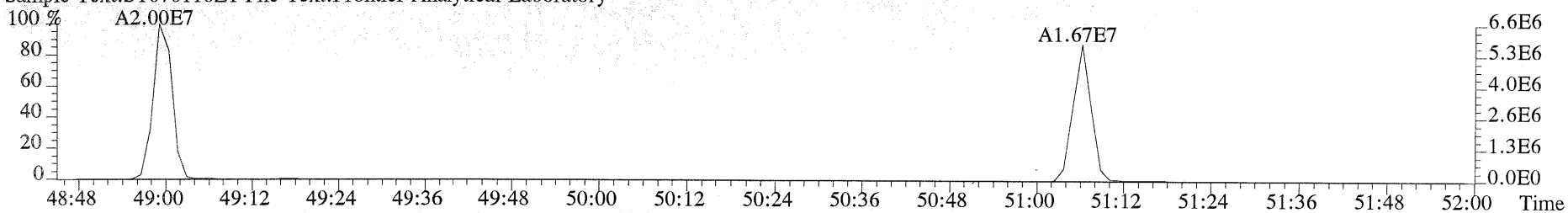
File:02JUL16Z #1-221 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



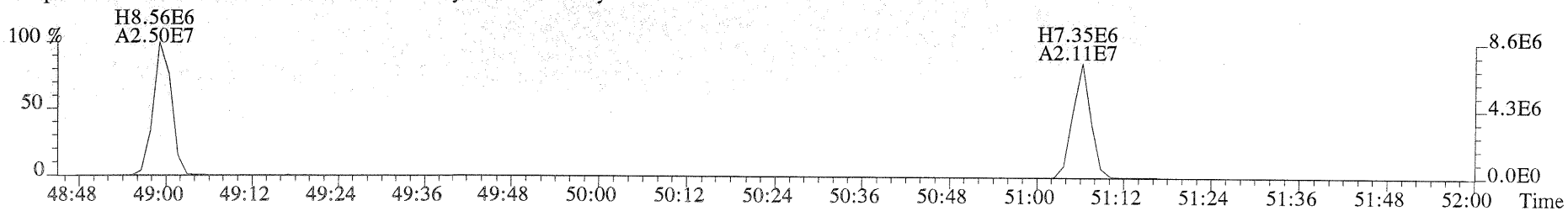
File:02JUL16Z #1-221 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



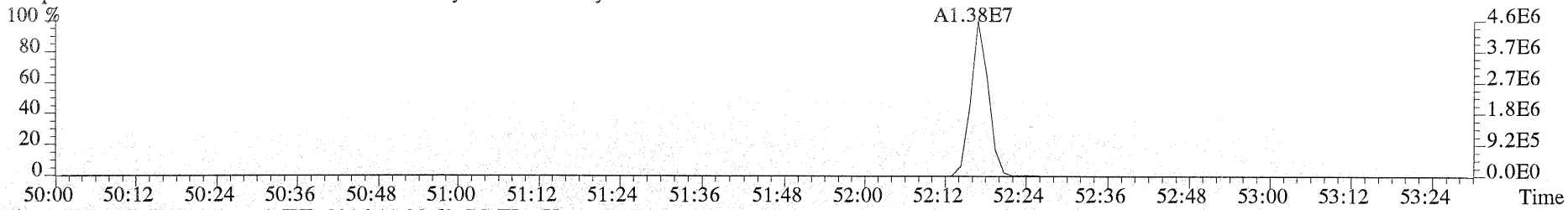
File:02JUL16Z #1-221 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



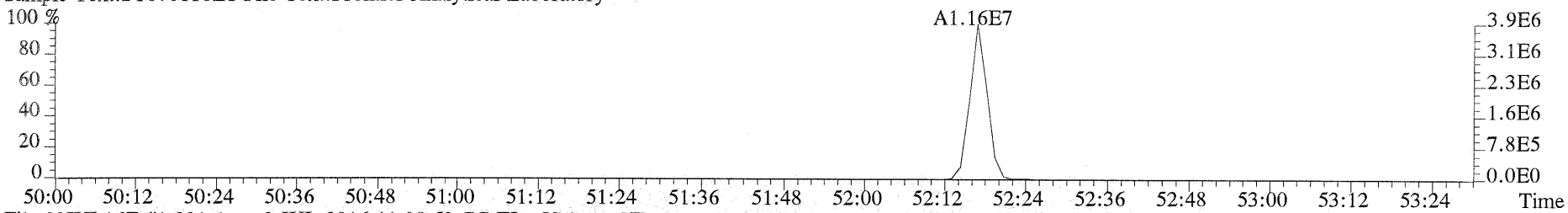
File:02JUL16Z #1-221 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



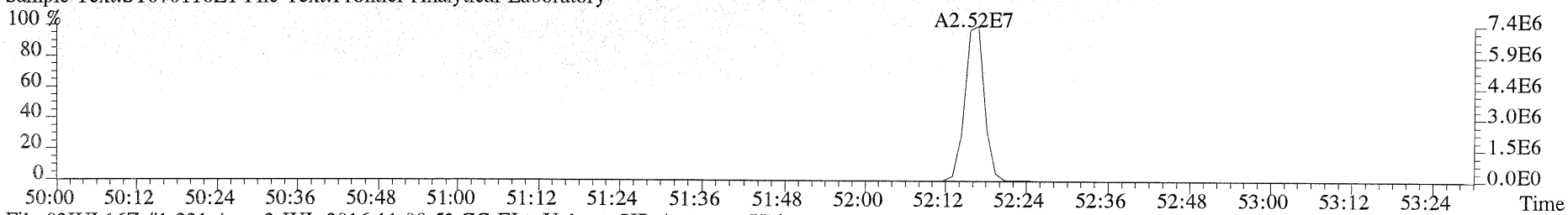
File:02JUL16Z #1-221 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



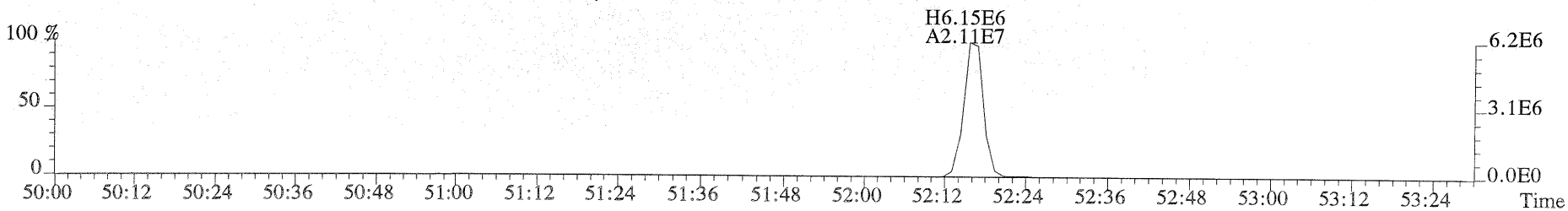
File:02JUL16Z #1-221 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory



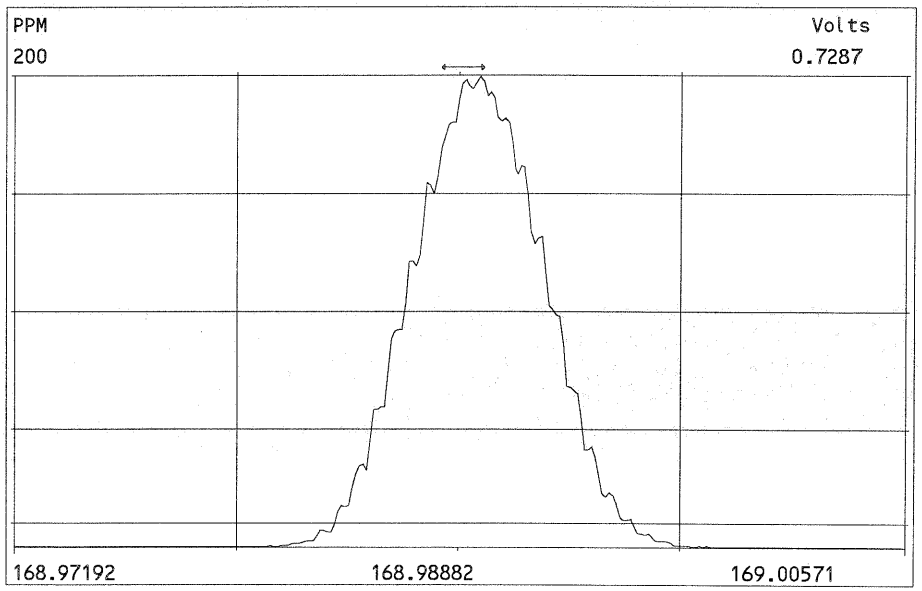
File:02JUL16Z #1-221 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory

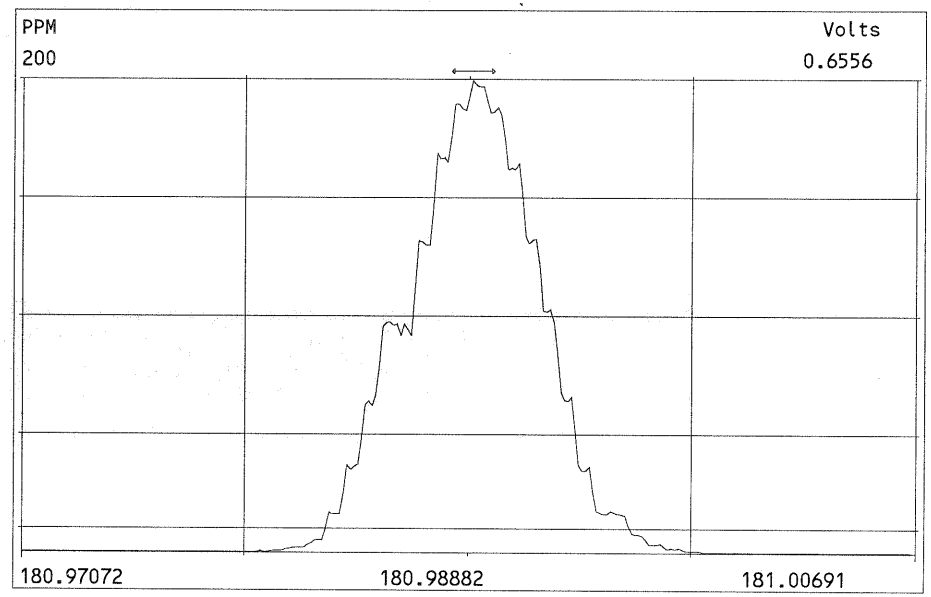


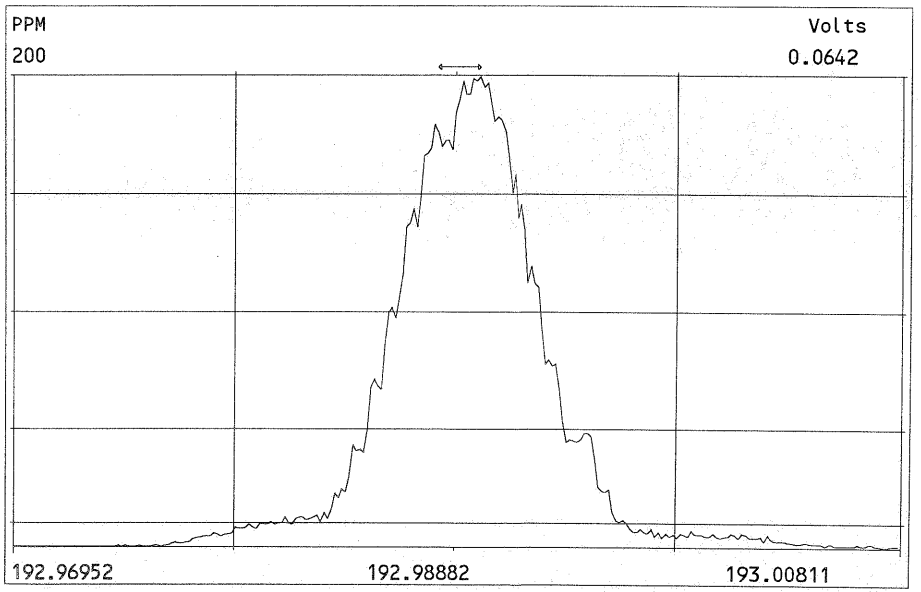
File:02JUL16Z #1-221 Acq: 2-JUL-2016 11:09:53 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Z1 File Text:Frontier Analytical Laboratory

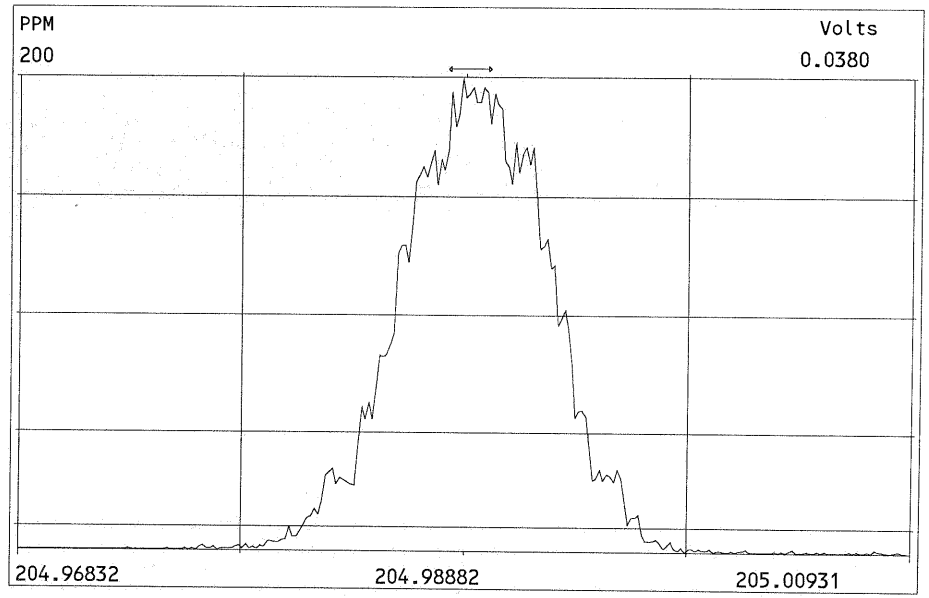


Peak Locate Examination: 2-JUL-2016:23:24 File:02JUL16Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

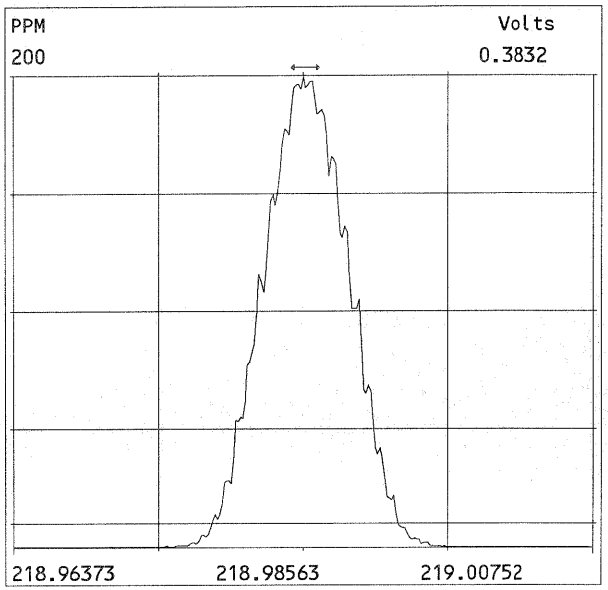


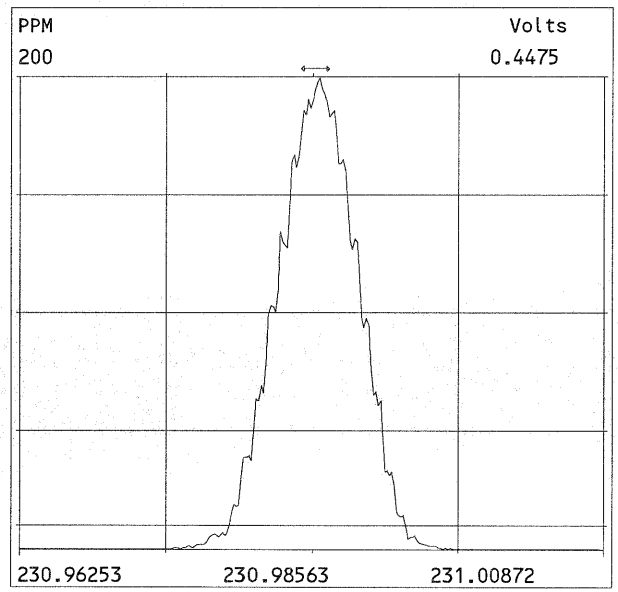


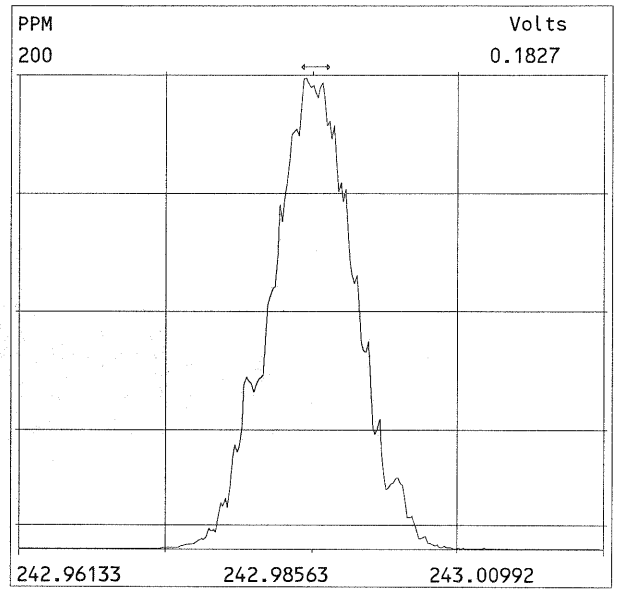


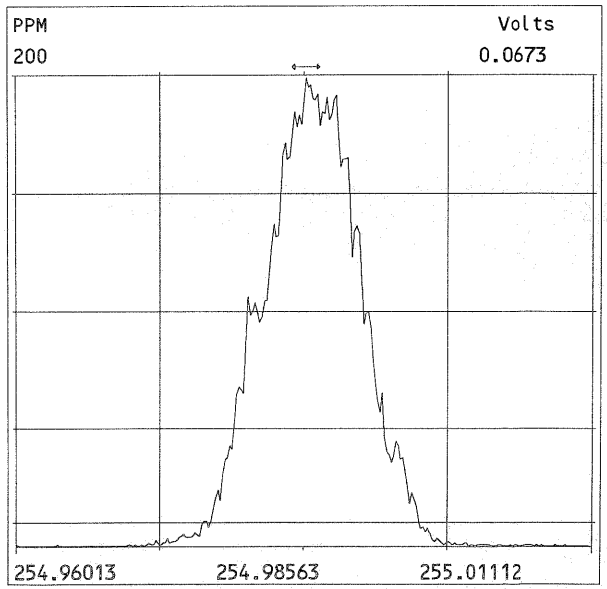


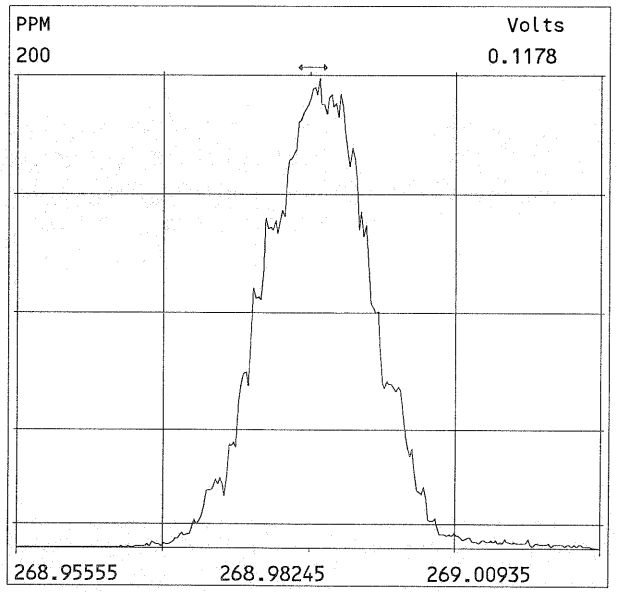
Peak Locate Examination: 2-JUL-2016:23:25 File:02JUL16Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

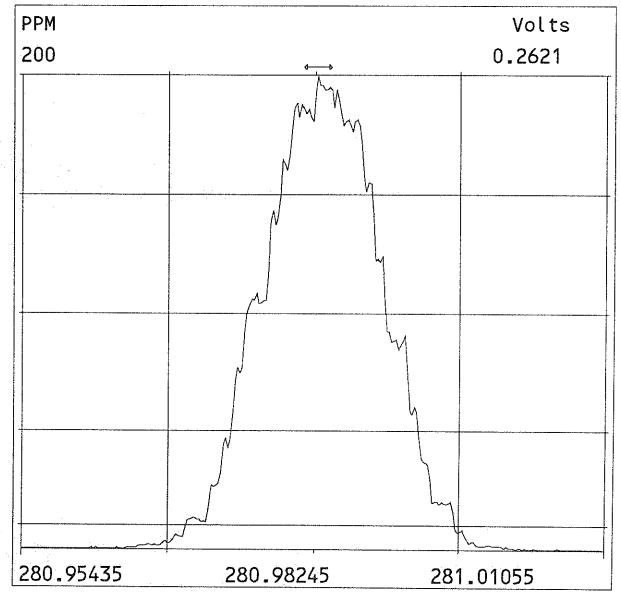




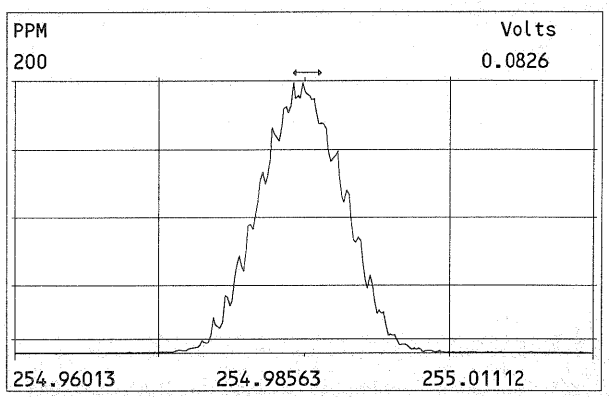


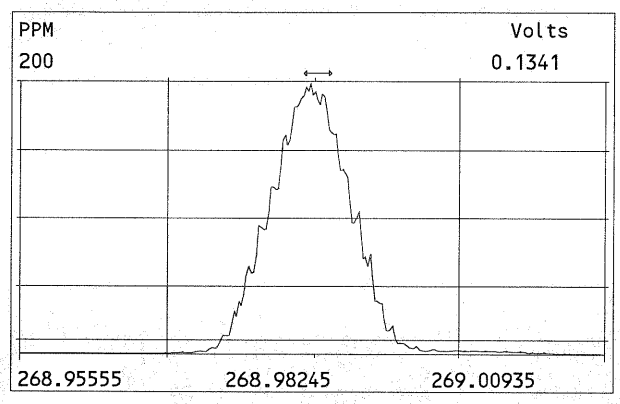


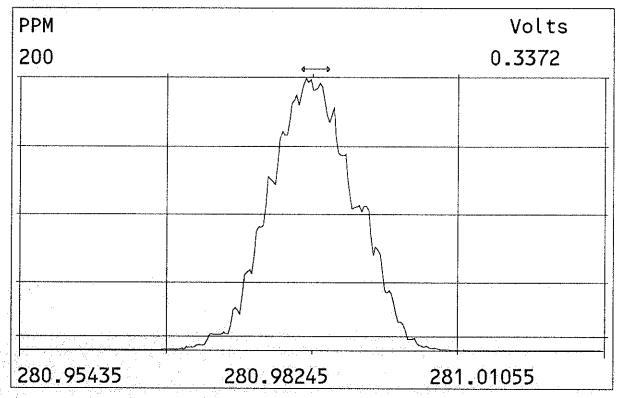


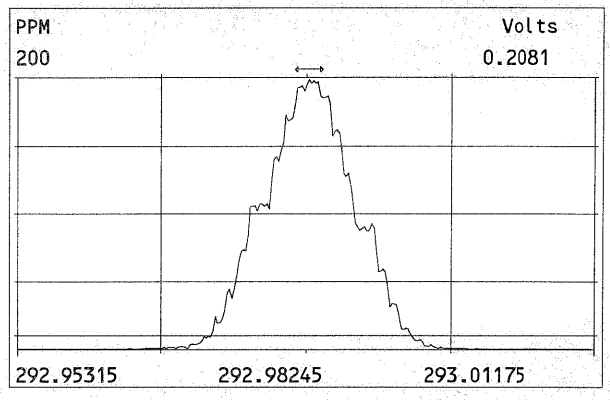


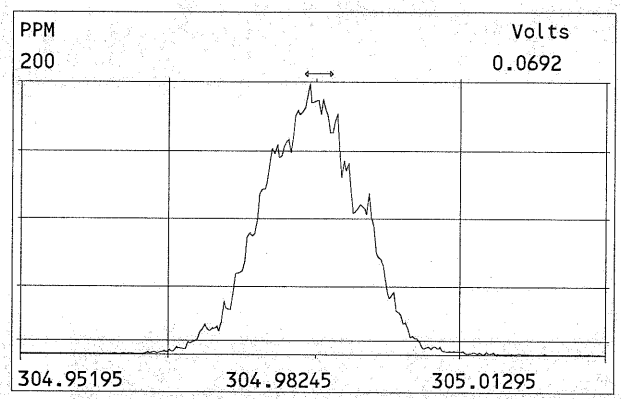
Peak Locate Examination: 2-JUL-2016:23:25 File:02JUL16Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

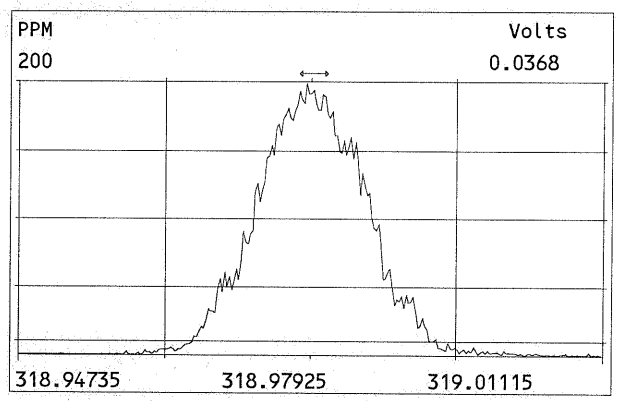


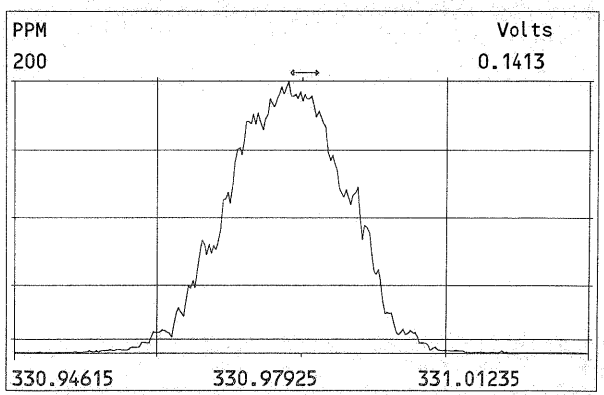


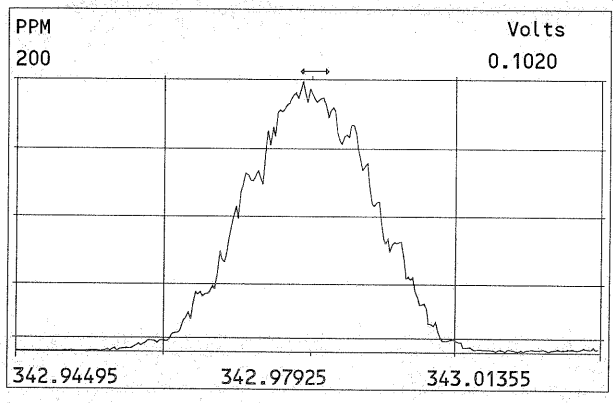




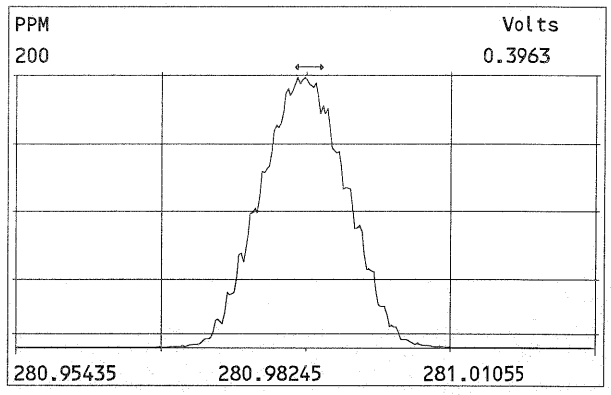


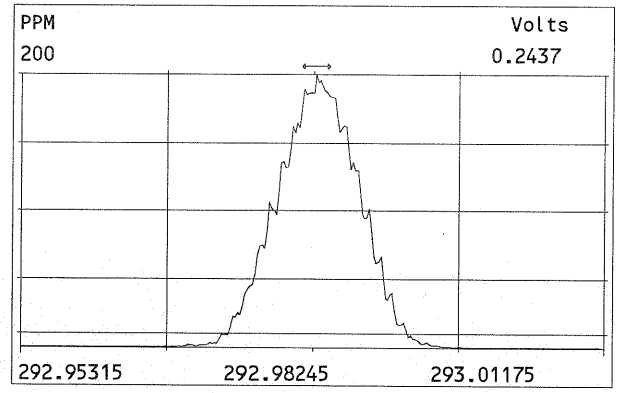


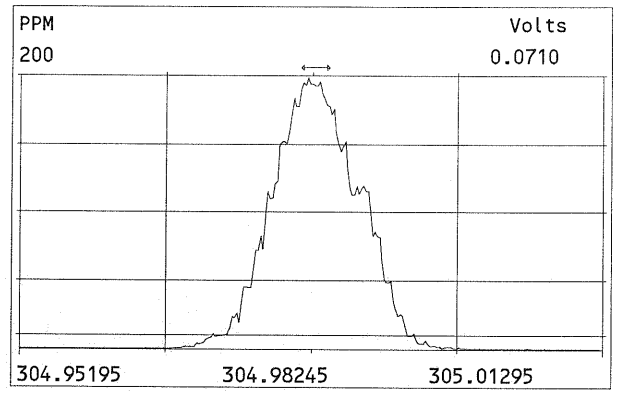


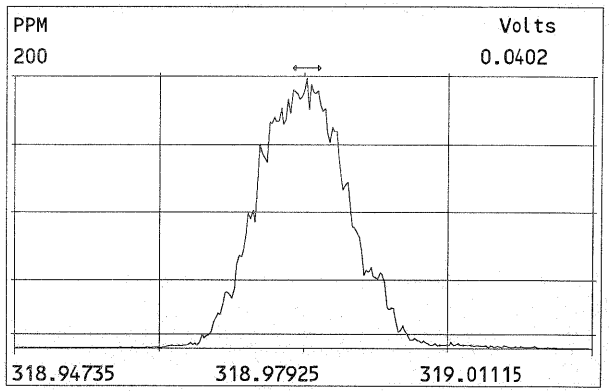


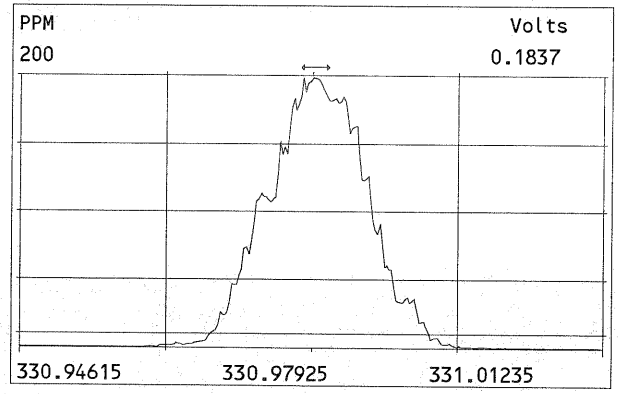
Peak Locate Examination: 2-JUL-2016:23:26 File:02JUL16Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

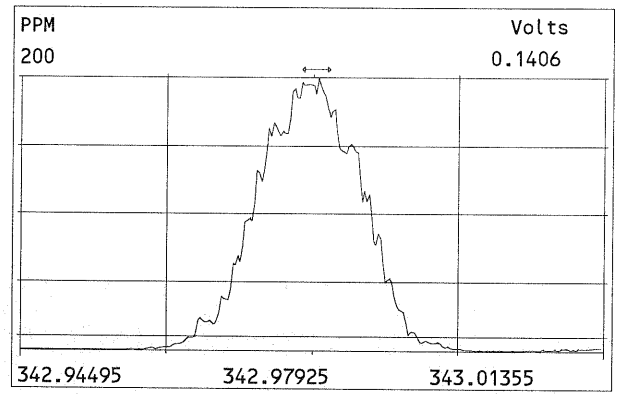


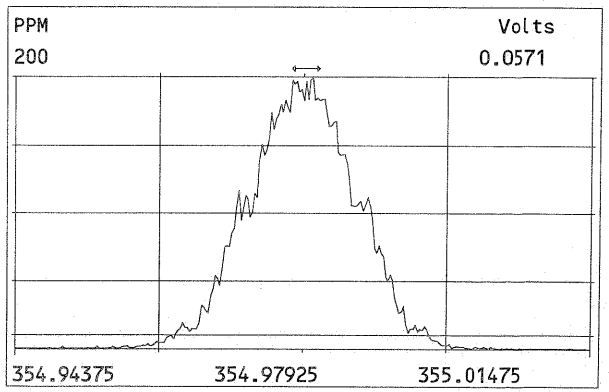


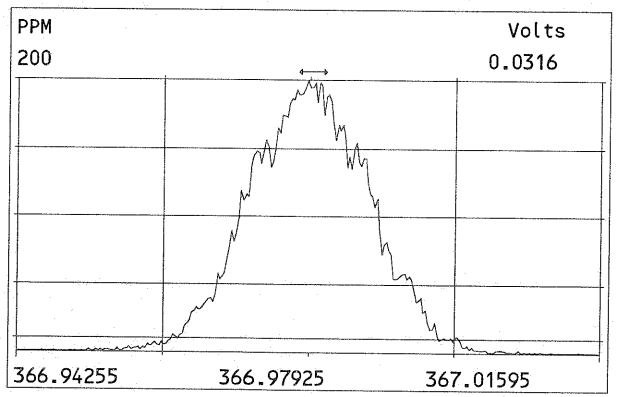


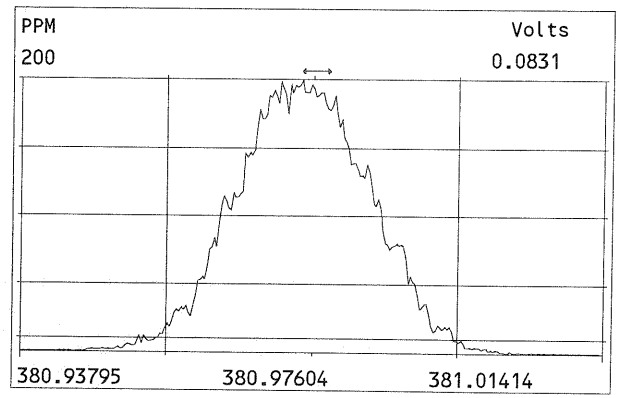




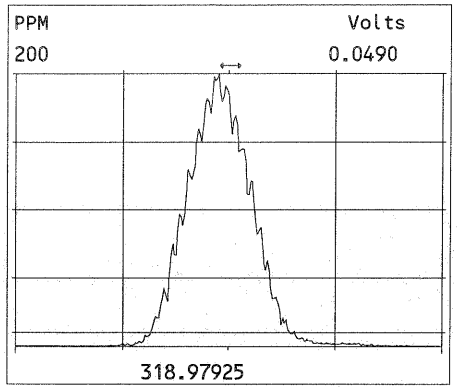


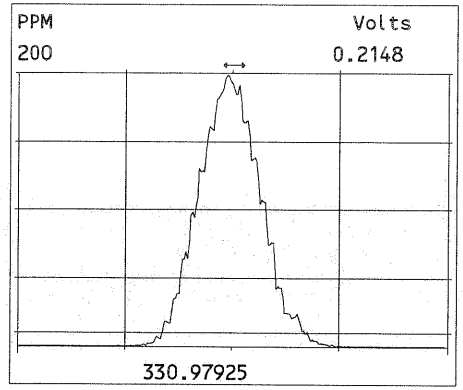


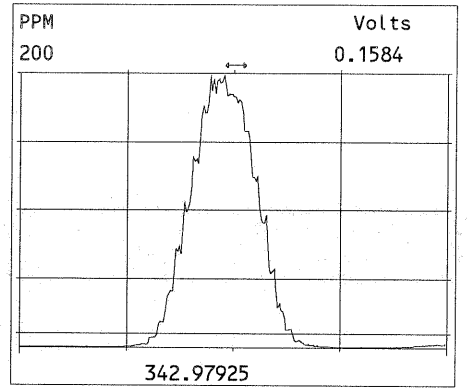


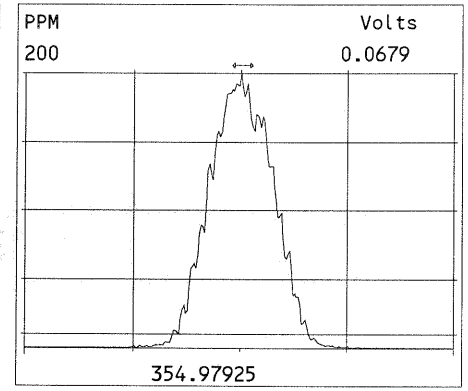


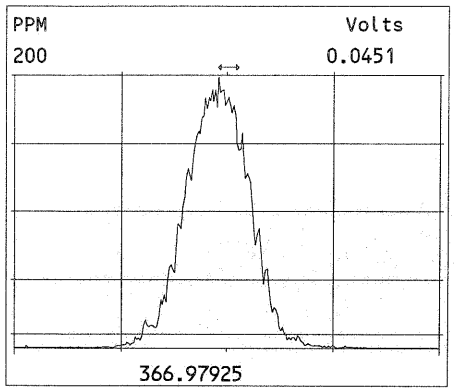
Peak Locate Examination: 2-JUL-2016:23:26 File:02JUL16Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

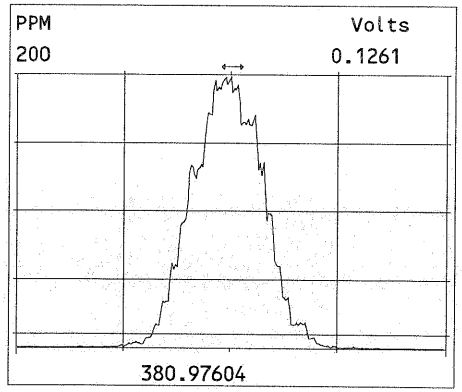


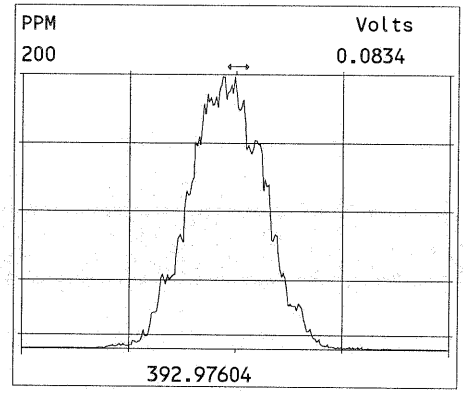


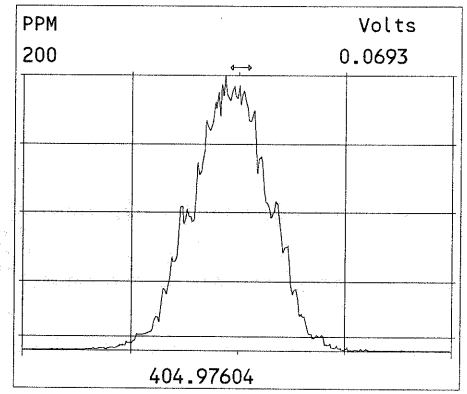


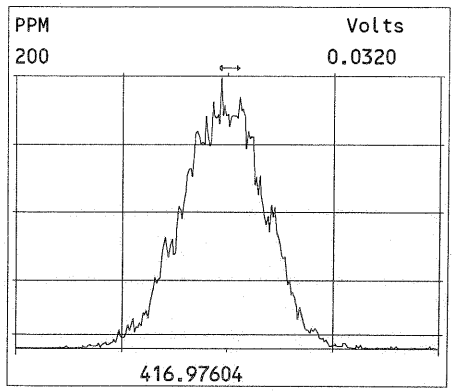


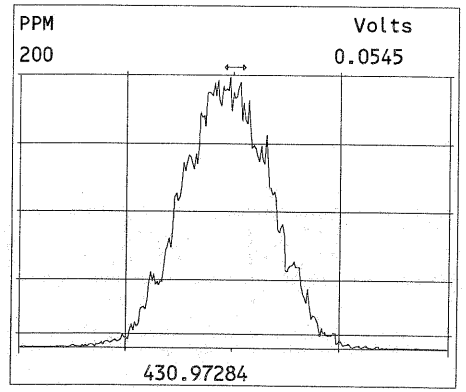


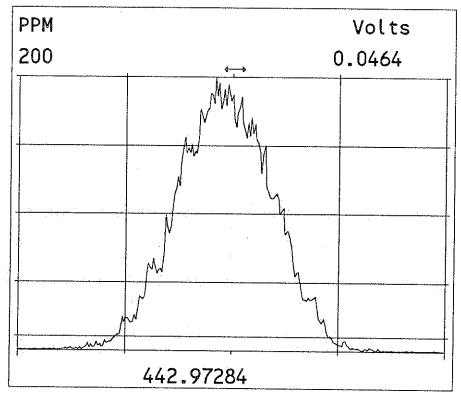




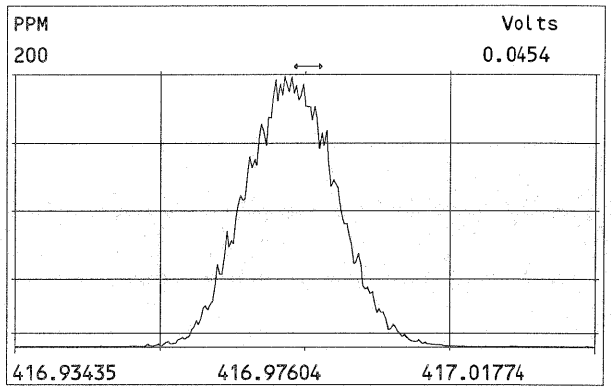


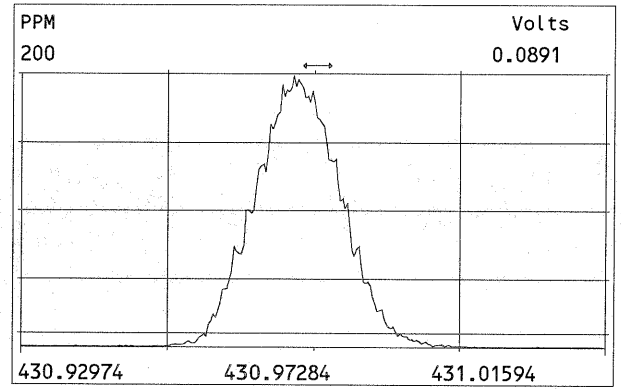


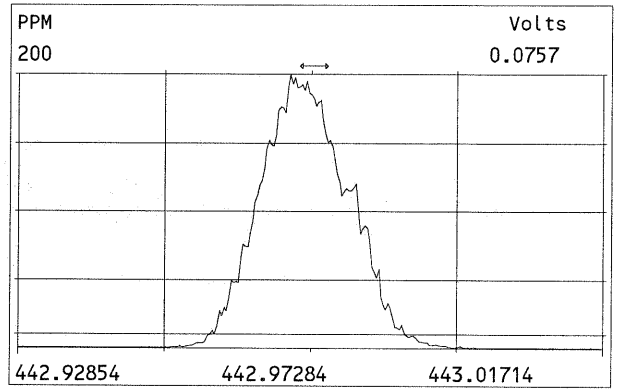


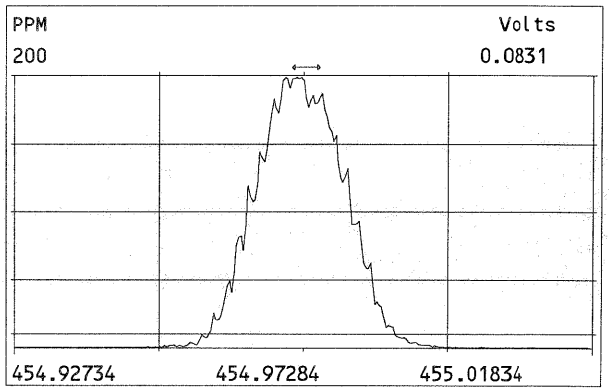


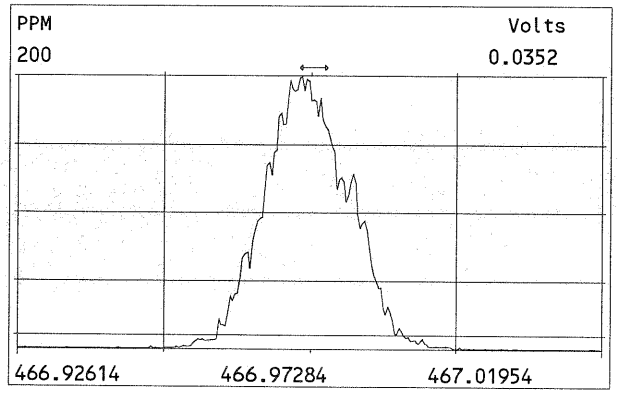
Peak Locate Examination: 2-JUL-2016:23:27 File:02JUL16Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

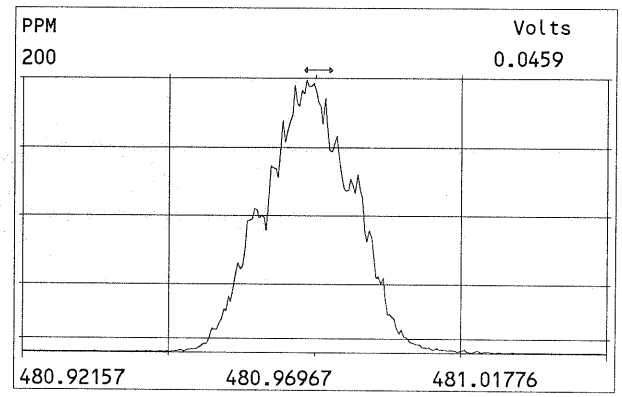


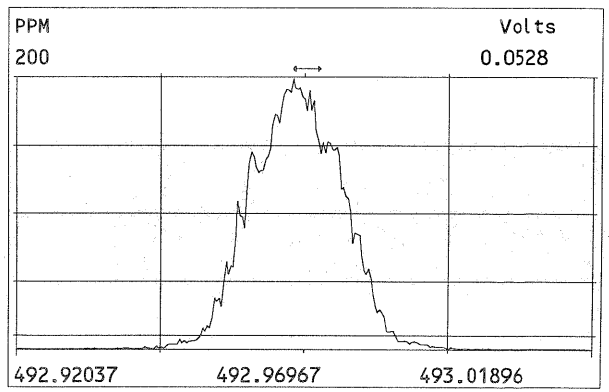


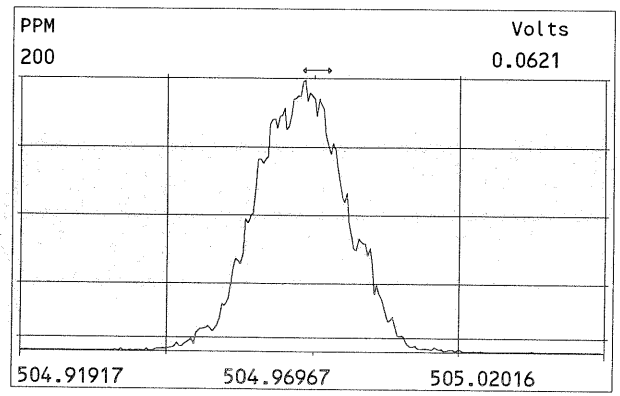


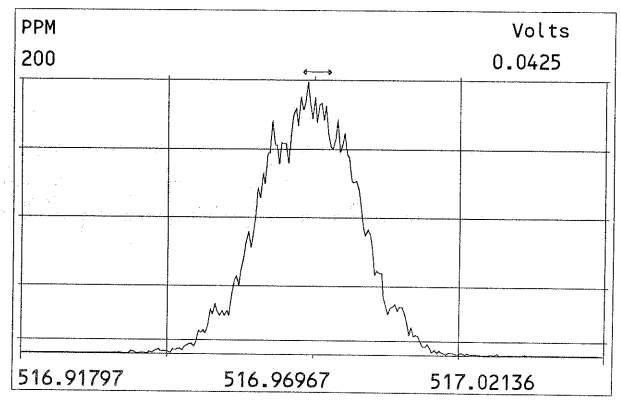












Cal: DAILY209FAL4-7-2-16

Run: 02JUL16Z Analyte: 209 Results: Version: V3.6 21-MAY-2002 15:28:22

Data Filename:02JUL16Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	0.9504	-	0.95	
13C-PCB-1	1.2384	-	1.24	
PCB-2	0.8936	-	0.89	
PCB-3	0.9949	-	0.99	
13C-PCB-3	1.1356	-	1.14	
PCB-4	1.1846	-	1.18	
PCB-10	1.1706	-	1.17	
13C-PCB-4	0.5935	-	0.59	
PCB-9	1.3199	-	1.32	
PCB-7	1.3527	*	1.35	
PCB-6	1.3687	-	1.37	
PCB-8	1.3048	-	1.30	
PCB-5	1.3378	-	1.34	
PCB-14	1.2723	-	1.27	
PCB-11	1.2087	-	1.21	
PCB-13	1.1392	-	1.14	
PCB-12	1.2222	-	1.22	
PCB-15	1.1457	-	1.15	
13C-PCB-15	0.9134	-	0.91	
PCB-19	1.0563	-	1.06	
PCB-30	1.5676	-	1.57	
PCB-18	1.0209	-	1.02	
PCB-17	1.1246	-	1.12	
PCB-27	1.4910	-	1.49	
PCB-24	1.4752	*	1.48	
PCB-16	1.1558	-	1.16	
PCB-32	1.3966	-	1.40	
13C-PCB-19	0.5861	-	0.59	
13C-PCB-9	-	-	-	
PCB-34	1.1231	-	1.12	
PCB-23	1.1320	-	1.13	
PCB-29	1.1542	-	1.15	
PCB-26	1.1640	-	1.16	
PCB-25	1.2823	-	1.28	
PCB-31	1.0902	-	1.09	
PCB-28	1.3804	-	1.38	
PCB-20	1.1906	-	1.19	Co-elute PCB 21/33
PCB-21	1.1906	-	1.19	Co-elute PCB 20/33
PCB-33	1.1906	-	1.19	Co-elute PCB 20/21
PCB-22	1.0878	-	1.09	
PCB-36	1.1226	-	1.12	
PCB-39	1.0821	-	1.08	
PCB-38	1.2273	-	1.23	
PCB-35	1.0909	-	1.09	
PCB-37	1.1735	-	1.17	
13C-PCB-37	1.2109	-	1.21	

PCB-54	1.0916	-	1.09	
PCB-50	0.8568	-	0.86	
PCB-53	0.8158	-	0.82	
PCB-51	0.8014	-	0.80	
PCB-45	0.7594	-	0.76	
PCB-46	0.6959	-	0.70	
PCB-52	1.0575	-	1.06	Co-elute PCB 69
PCB-69	1.0575	-	1.06	Co-elute PCB 52
PCB-73	1.0077	-	1.01	
PCB-43	0.8535	-	0.85	Co-elute PCB 49
PCB-49	0.8535	-	0.85	Co-elute PCB 43
PCB-47	0.9775	-	0.98	
PCB-48	1.0405	-	1.04	Co-elute PCB 75
PCB-75	1.0405	-	1.04	Co-elute PCB 48
PCB-65	1.1131	-	1.11	
PCB-62	0.9801	-	0.98	
PCB-44	0.7397	-	0.74	
PCB-42	0.9797	-	0.98	Co-elute PCB 59
PCB-59	0.9797	-	0.98	Co-elute PCB 42
PCB-72	1.0745	-	1.07	Co-elute PCB 41/71/64
PCB-41	1.0745	-	1.07	Co-elute PCB 72/71/64
PCB-71	1.0745	-	1.07	Co-elute PCB 72/41/64
PCB-64	1.0745	-	1.07	Co-elute PCB 72/41/71
PCB-68	1.1304	-	1.13	
PCB-40	0.6488	-	0.65	
PCB-57	1.1189	-	1.12	
PCB-67	1.0706	-	1.07	
PCB-58	1.0693	-	1.07	
PCB-63	1.1088	-	1.11	
PCB-74	1.1390	-	1.14	
PCB-61	1.1003	-	1.10	Co-elute PCB 70
PCB-70	1.1003	-	1.10	Co-elute PCB 61
PCB-76	1.1418	-	1.14	Co-elute PCB 66
PCB-66	1.1418	-	1.14	Co-elute PCB 76
PCB-80	1.2331	-	1.23	
PCB-55	1.0823	-	1.08	
13C-PCB-54	1.0744	-	1.07	
PCB-104	1.2267	-	1.23	
PCB-96	1.1484	-	1.15	
PCB-103	0.9642	-	0.96	
PCB-100	0.9087	-	0.91	
PCB-94	0.7644	-	0.76	
PCB-98	0.9902	-	0.99	Co-elute PCB 102
PCB-102	0.9902	-	0.99	Co-elute PCB 98
PCB-95	0.8169	-	0.82	
PCB-93	0.7624	*	0.76	
PCB-88	0.8736	-	0.87	Co-elute PCB 91
PCB-91	0.8736	-	0.87	Co-elute PCB 88
PCB-121	1.0485	-	1.05	
13C-PCB-104	0.8085	-	0.81	
13C-PCB-28	1.4194	-	1.42	
13C-PCB-52	-	-	-	

PCB-56	1.1703	-	1.17	Co-elute PCB 60
PCB-60	1.1703	-	1.17	Co-elute PCB 56
PCB-79	1.1971	-	1.20	
PCB-78	1.2079	-	1.21	
PCB-81	1.2660	-	1.27	
13C-PCB-81	1.1224	-	1.12	
PCB-77	1.1444	-	1.14	
13C-PCB-77	1.1042	-	1.10	
PCB-155	1.1348	-	1.13	
PCB-150	1.0154	-	1.02	
PCB-152	1.0512	-	1.05	
PCB-145	0.9885	-	0.99	
PCB-136	1.0054	-	1.01	
PCB-148	0.7953	-	0.80	
PCB-154	0.8862	-	0.89	
13C-PCB-155	1.0124	-	1.01	
13C-PCB-111	1.1257	-	1.13	
13C-PCB-101	-	-	-	
PCB-84	0.7952	-	0.80	Co-elute PCB 92
PCB-92	0.7952	-	0.80	Co-elute PCB 84
PCB-89	0.7845	-	0.78	
PCB-90	0.8707	-	0.87	Co-elute PCB 101
PCB-101	0.8707	-	0.87	Co-elute PCB 90
PCB-113	1.0699	-	1.07	
PCB-99	0.8978	-	0.90	
PCB-119	1.1550	-	1.16	
PCB-83	0.9343	-	0.93	Co-elute PCB 112
PCB-112	0.9343	-	0.93	Co-elute PCB 83
PCB-109	1.0465	-	1.05	
PCB-97	0.8979	-	0.90	
PCB-86	0.7057	-	0.71	
PCB-125	1.0565	-	1.06	Co-elute PCB 87/117
PCB-87	1.0565	-	1.06	Co-elute PCB 125/117
PCB-117	1.0565	-	1.06	Co-elute PCB 125/87
PCB-111	1.2010	-	1.20	Co-elute PCB 115
PCB-115	1.2010	-	1.20	Co-elute PCB 111
PCB-85	0.9895	-	0.99	Co-elute PCB 116
PCB-116	0.9895	-	0.99	Co-elute PCB 85
PCB-120	1.1903	-	1.19	
PCB-110	1.1782	-	1.18	
PCB-82	0.6856	-	0.69	
PCB-124	1.1209	-	1.12	
PCB-108	1.0145	-	1.01	Co-elute PCB 107
PCB-107	1.0145	-	1.01	Co-elute PCB 108
PCB-123	1.1473	-	1.15	
13C-PCB-123	1.1003	-	1.10	
PCB-118	1.0205	-	1.02	Co-elute PCB 106
PCB-106	1.0205	-	1.02	Co-elute PCB 118
13C-PCB-118	1.1579	-	1.16	
PCB-114	1.0601	-	1.06	
13C-PCB-114	1.1294	-	1.13	
PCB-122	1.1792	-	1.18	
PCB-105	1.1289	-	1.13	
13C-PCB-105	1.1297	-	1.13	
PCB-127	1.0369	-	1.04	
PCB-126	1.1564	-	1.16	
13C-PCB-126	0.9809	-	0.98	

PCB-151	0.8827	-	0.88	
PCB-135	0.8565	-	0.86	
PCB-144	0.9388	-	0.94	
PCB-147	0.9737	-	0.97	
PCB-139	0.9522	-	0.95	Co-elute PCB 149
PCB-149	0.9522	-	0.95	Co-elute PCB 139
PCB-140	0.9342	-	0.93	
PCB-143	0.8941	-	0.89	Co-elute PCB 134
PCB-134	0.8941	-	0.89	Co-elute PCB 143
PCB-131	0.8999	-	0.90	Co-elute PCB 131
PCB-133	0.8999	-	0.90	Co-elute PCB 142
PCB-142	0.8251	-	0.83	
PCB-165	1.0824	-	1.08	Co-elute PCB 146
PCB-146	1.0824	-	1.08	Co-elute PCB 165
PCB-161	1.0100	-	1.01	Co-elute PCB 132
PCB-132	1.0100	-	1.01	Co-elute PCB 161
PCB-153	1.0992	-	1.10	
PCB-168	1.1520	-	1.15	
PCB-141	0.9144	-	0.91	
PCB-137	0.8489	-	0.85	
PCB-130	0.8270	-	0.83	
PCB-138	1.1745	-	1.17	Co-elute PCB 163/164
PCB-163	1.1745	-	1.17	Co-elute PCB 138/164
PCB-164	1.1745	-	1.17	Co-elute PCB 138/163
PCB-158	1.1739	-	1.17	Co-elute PCB 160
PCB-160	1.1739	-	1.17	Co-elute PCB 158
PCB-129	0.7664	-	0.77	
PCB-166	1.1291	-	1.13	
PCB-159	1.2149	-	1.21	
PCB-128	0.9466	-	0.95	Co-elute PCB 162
PCB-162	0.9466	-	0.95	Co-elute PCB 128
PCB-167	1.0382	-	1.04	
13C-PCB-167	1.0379	-	1.04	
PCB-156	1.0899	-	1.09	
13C-PCB-156	1.0140	-	1.01	
PCB-157	0.9977	-	1.00	
13C-PCB-157	1.0307	-	1.03	
PCB-169	1.0171	-	1.02	
13C-PCB-169	0.8899	-	0.89	
PCB-188	1.1633	-	1.16	
13C-PCB-188	1.1221	-	1.12	

PCB-184	1.2679	-	1.27	
PCB-179	1.2661	-	1.27	
PCB-176	1.2396	-	1.24	
PCB-186	1.1942	-	1.19	
PCB-178	0.9017	-	0.90	
PCB-175	0.9279	-	0.93	
PCB-187	0.9771	-	0.98	Co-elute PCB 182
PCB-182	0.9771	-	0.98	Co-elute PCB 187
PCB-183	0.9918	-	0.99	
PCB-185	0.8708	-	0.87	
PCB-174	0.9485	-	0.95	
PCB-181	0.8125	-	0.81	
PCB-177	0.8438	-	0.84	
PCB-171	0.8927	-	0.89	
PCB-173	0.7887	-	0.79	
PCB-172	0.8338	-	0.83	
PCB-192	1.0612	-	1.06	
PCB-180	0.9763	-	0.98	
PCB-193	1.1497	-	1.15	
PCB-191	1.1178	-	1.12	
PCB-170	0.7714	-	0.77	
PCB-190	1.0587	-	1.06	
PCB-189	1.1512	-	1.15	
13C-PCB-189	0.8644	-	0.86	
PCB-202	0.9823	-	0.98	
PCB-201	1.0284	-	1.03	
PCB-204	1.0026	-	1.00	
PCB-197	1.0021	-	1.00	
PCB-200	0.9999	-	1.00	
PCB-198	0.7138	-	0.71	
PCB-199	0.6715	-	0.67	
PCB-203	0.7441	-	0.74	Co-elute PCB 196
PCB-196	0.7441	-	0.74	Co-elute PCB 203
13C-PCB-202	0.8866	-	0.89	
13C-PCB-178	0.7761	-	0.78	
13C-PCB-138	-	-	-	
PCB-195	0.7837	-	0.78	
PCB-194	0.8687	-	0.87	
PCB-205	1.0701	-	1.07	
13C-PCB-205	1.1954	-	1.20	
PCB-208	0.9955	-	1.00	
13C-PCB-208	1.3899	-	1.39	
PCB-207	1.0866	-	1.09	
PCB-206	1.0427	-	1.04	
13C-PCB-206	0.9703	-	0.97	
PCB-209	1.0551	-	1.06	
13C-PCB-209	1.4243	-	1.42	
13C-PCB-194	-	-	-	

Analyst: [signature] Date: 7/5/16

Run #1 Filename 02JUL16Z S: 2 Acquired: 2-JUL-16 12:09:48 Cal: DAILY209FAL4-7-2-16
Client ID: SS070116Z1 Analyte: 209 FAL ID: Daily 209 151201A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	1.21e+08	3.13 y	14:22	-	0.950	
2	IS/RT	13C-PCB-1	100.00	2.56e+08	3.09 y	14:21	-	1.24	
3	Unk	PCB-2	50.00	1.09e+08	3.12 y	16:35	-	0.894	
4	Unk	PCB-3	50.00	1.17e+08	3.12 y	16:48	-	0.995	
5	IS/RT	13C-PCB-3	100.00	2.34e+08	3.10 y	16:47	-	1.14	
6	Unk	PCB-4	50.00	7.26e+07	1.46 y	18:02	-	1.18	
7	Unk	PCB-10	50.00	9.10e+07	1.54 y	18:05	-	1.17	
8	IS/RT	13C-PCB-4	100.00	1.22e+08	1.59 y	18:01	-	0.593	
9	Unk	PCB-9	50.00	1.03e+08	1.54 y	19:43	-	1.32	
10	Unk	PCB-7	50.00	1.05e+08	1.50 y	19:45	-	1.35	
11	Unk	PCB-6	50.00	1.06e+08	1.50 y	20:20	-	1.37	
12	Unk	PCB-8	50.00	1.01e+08	1.46 y	20:43	-	1.30	
13	Unk	PCB-5	50.00	1.04e+08	1.54 y	20:44	-	1.34	
14	Unk	PCB-14	50.00	9.89e+07	1.51 y	21:46	-	1.27	
15	Unk	PCB-11	50.00	9.40e+07	1.54 y	22:54	-	1.21	
16	Unk	PCB-13	50.00	8.86e+07	1.51 y	23:15	-	1.14	
17	Unk	PCB-12	50.00	9.50e+07	1.52 y	23:18	-	1.22	
18	Unk	PCB-15	50.00	1.08e+08	1.51 y	23:33	-	1.15	
19	IS/RT	13C-PCB-15	100.00	1.89e+08	1.59 y	23:33	-	0.913	
20	Unk	PCB-19	50.00	6.39e+07	1.03 y	21:55	-	1.06	
21	Unk	PCB-30	50.00	9.48e+07	1.03 y	22:45	-	1.57	
22	Unk	PCB-18	50.00	6.18e+07	1.04 y	23:27	-	1.02	
23	Unk	PCB-17	50.00	6.80e+07	1.03 y	23:37	-	1.12	
24	Unk	PCB-27	50.00	9.02e+07	1.00 y	24:10	-	1.49	
25	Unk	PCB-24	50.00	8.92e+07	1.08 y	24:11	-	1.48	
26	Unk	PCB-16	50.00	6.99e+07	1.01 y	24:38	-	1.16	
27	Unk	PCB-32	50.00	8.45e+07	1.06 y	24:40	-	1.40	
28	IS/RT	13C-PCB-19	100.00	1.21e+08	1.07 y	21:53	-	0.586	
29	RS	13C-PCB-9	100.00	2.06e+08	1.62 y	19:41	2.06e+06	-	
30	Unk	PCB-34	50.00	8.48e+07	0.99 y	25:25	-	1.12	
31	Unk	PCB-23	50.00	8.54e+07	1.02 y	25:30	-	1.13	
32	Unk	PCB-29	50.00	8.71e+07	1.00 y	25:44	-	1.15	
33	Unk	PCB-26	50.00	8.78e+07	1.01 y	25:56	-	1.16	
34	Unk	PCB-25	50.00	9.68e+07	1.01 y	26:05	-	1.28	
35	Unk	PCB-31	50.00	8.23e+07	0.99 y	26:25	-	1.09	
36	Unk	PCB-28	50.00	1.04e+08	1.02 y	26:32	-	1.38	
37	Unk	PCB-20	150.00	2.70e+08	1.01 y	27:06	-	1.19	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	2.70e+08	1.01 y	27:06	-	1.19	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	2.70e+08	1.01 y	27:06	-	1.19	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	8.21e+07	0.99 y	27:31	-	1.09	
41	Unk	PCB-36	50.00	8.47e+07	1.02 y	28:06	-	1.12	
42	Unk	PCB-39	50.00	8.17e+07	1.00 y	28:34	-	1.08	
43	Unk	PCB-38	50.00	9.26e+07	1.02 y	29:17	-	1.23	
44	Unk	PCB-35	50.00	8.23e+07	1.01 y	29:48	-	1.09	
45	Unk	PCB-37	50.00	8.86e+07	0.99 y	30:13	-	1.17	
46	IS	13C-PCB-37	100.00	1.51e+08	1.07 y	30:12	-	1.21	

47	Unk	PCB-54	100.00	1.46e+08	0.79	y	25:26	-	1.09	
48	Unk	PCB-50	100.00	1.15e+08	0.78	y	26:33	-	0.857	
49	Unk	PCB-53	100.00	1.09e+08	0.79	y	27:10	-	0.816	
50	Unk	PCB-51	100.00	1.07e+08	0.79	y	27:29	-	0.801	
51	Unk	PCB-45	100.00	1.02e+08	0.79	y	27:54	-	0.759	
52	Unk	PCB-46	100.00	9.32e+07	0.79	y	28:20	-	0.696	
53	Unk	PCB-52	200.00	2.83e+08	0.77	y	28:48	-	1.06	Co-elute PCB 69
54	Unk	PCB-69	200.00	2.83e+08	0.77	y	28:48	-	1.06	Co-elute PCB 52
55	Unk	PCB-73	100.00	1.35e+08	0.79	y	28:54	-	1.01	
56	Unk	PCB-43	200.00	2.29e+08	0.77	y	29:03	-	0.853	Co-elute PCB 49
57	Unk	PCB-49	200.00	2.29e+08	0.77	y	29:03	-	0.853	Co-elute PCB 43
58	Unk	PCB-47	100.00	1.31e+08	0.77	y	29:16	-	0.977	
59	Unk	PCB-48	200.00	2.79e+08	0.79	y	29:22	-	1.04	Co-elute PCB 75
60	Unk	PCB-75	200.00	2.79e+08	0.79	y	29:22	-	1.04	Co-elute PCB 48
61	Unk	PCB-65	100.00	1.49e+08	0.77	y	29:37	-	1.11	
62	Unk	PCB-62	100.00	1.31e+08	0.79	y	29:44	-	0.980	
63	Unk	PCB-44	100.00	9.90e+07	0.78	y	30:02	-	0.740	
64	Unk	PCB-42	200.00	2.62e+08	0.78	y	30:14	-	0.980	Co-elute PCB 59
65	Unk	PCB-59	200.00	2.62e+08	0.78	y	30:14	-	0.980	Co-elute PCB 42
66	Unk	PCB-72	400.00	5.75e+08	0.78	y	30:47	-	1.07	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	5.75e+08	0.78	y	30:47	-	1.07	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	5.75e+08	0.78	y	30:47	-	1.07	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	5.75e+08	0.78	y	30:47	-	1.07	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	1.51e+08	0.78	y	31:02	-	1.13	
71	Unk	PCB-40	100.00	8.69e+07	0.78	y	31:14	-	0.649	
72	Unk	PCB-57	100.00	1.50e+08	0.78	y	31:35	-	1.12	
73	Unk	PCB-67	100.00	1.43e+08	0.77	y	31:53	-	1.07	
74	Unk	PCB-58	100.00	1.43e+08	0.79	y	31:59	-	1.07	
75	Unk	PCB-63	100.00	1.48e+08	0.78	y	32:08	-	1.11	
76	Unk	PCB-74	100.00	1.53e+08	0.78	y	32:24	-	1.14	
77	Unk	PCB-61	200.00	2.95e+08	0.80	y	32:36	-	1.10	Co-elute PCB 70
78	Unk	PCB-70	200.00	2.95e+08	0.80	y	32:36	-	1.10	Co-elute PCB 61
79	Unk	PCB-76	200.00	3.06e+08	0.77	y	32:47	-	1.14	Co-elute PCB 66
80	Unk	PCB-66	200.00	3.06e+08	0.77	y	32:47	-	1.14	Co-elute PCB 76
81	Unk	PCB-80	100.00	1.65e+08	0.78	y	32:60	-	1.23	
82	Unk	PCB-55	100.00	1.45e+08	0.78	y	33:19	-	1.08	
83	IS/RT	13C-PCB-54	100.00	1.34e+08	0.80	y	25:25	-	1.07	
84	Unk	PCB-104	100.00	1.24e+08	1.61	y	29:53	-	1.23	
85	Unk	PCB-96	100.00	1.16e+08	1.60	y	31:03	-	1.15	
86	Unk	PCB-103	100.00	9.72e+07	1.60	y	31:35	-	0.964	
87	Unk	PCB-100	100.00	9.16e+07	1.60	y	31:55	-	0.909	
88	Unk	PCB-94	100.00	7.70e+07	1.60	y	32:22	-	0.764	
89	Unk	PCB-98	200.00	2.00e+08	1.59	y	32:48	-	0.990	Co-elute PCB 102
90	Unk	PCB-102	200.00	2.00e+08	1.59	y	32:48	-	0.990	Co-elute PCB 98
91	Unk	PCB-95	100.00	8.23e+07	1.59	y	32:52	-	0.817	
92	Unk	PCB-93	100.00	7.68e+07	1.63	y	32:56	-	0.762	
93	Unk	PCB-88	200.00	1.76e+08	1.58	y	33:15	-	0.874	Co-elute PCB 91
94	Unk	PCB-91	200.00	1.76e+08	1.58	y	33:15	-	0.874	Co-elute PCB 88
95	Unk	PCB-121	100.00	1.06e+08	1.60	y	33:19	-	1.05	
96	IS	13C-PCB-104	100.00	1.01e+08	1.60	y	29:51	-	0.808	
97	C/Up	13C-PCB-28	100.00	1.77e+08	1.06	y	26:30	-	1.42	
98	RS	13C-PCB-52	100.00	1.25e+08	0.79	y	28:46	1.25e+06	-	
99	Unk	PCB-56	200.00	2.81e+08	0.75	y	33:46	-	1.17	Co-elute PCB 60
100	Unk	PCB-60	200.00	2.81e+08	0.75	y	33:46	-	1.17	Co-elute PCB 56

101	Unk	PCB-79	100.00	1.44e+08	0.77 y	34:48	-	1.20	
102	Unk	PCB-78	100.00	1.45e+08	0.78 y	35:27	-	1.21	
103	Unk	PCB-81	100.00	1.53e+08	0.78 y	35:58	-	1.27	
104	IS	13C-PCB-81	100.00	1.21e+08	0.79 y	35:57	-	1.12	
105	Unk	PCB-77	100.00	1.36e+08	0.79 y	36:32	-	1.14	
106	IS/RT	13C-PCB-77	100.00	1.19e+08	0.79 y	36:31	-	1.10	
107	Unk	PCB-155	100.00	1.24e+08	1.28 y	34:01	-	1.13	
108	Unk	PCB-150	100.00	1.11e+08	1.28 y	35:14	-	1.02	
109	Unk	PCB-152	100.00	1.15e+08	1.28 y	35:40	-	1.05	
110	Unk	PCB-145	100.00	1.08e+08	1.27 y	36:05	-	0.989	
111	Unk	PCB-136	100.00	1.10e+08	1.27 y	36:24	-	1.01	
112	Unk	PCB-148	100.00	8.68e+07	1.28 y	36:29	-	0.795	
113	Unk	PCB-154	100.00	9.67e+07	1.25 y	36:57	-	0.886	
114	IS	13C-PCB-155	100.00	1.09e+08	1.29 y	34:00	-	1.01	
115	C/Up	13C-PCB-111	100.00	1.21e+08	1.58 y	36:05	-	1.13	
116	RS	13C-PCB-101	100.00	1.08e+08	1.60 y	34:27	1.08e+06	-	
117	Unk	PCB-84	200.00	1.77e+08	1.57 y	34:07	-	0.795	Co-elute PCB 92
118	Unk	PCB-92	200.00	1.77e+08	1.57 y	34:07	-	0.795	Co-elute PCB 84
119	Unk	PCB-89	100.00	8.75e+07	1.58 y	34:18	-	0.785	
120	Unk	PCB-90	200.00	1.94e+08	1.59 y	34:28	-	0.871	Co-elute PCB 101
121	Unk	PCB-101	200.00	1.94e+08	1.59 y	34:28	-	0.871	Co-elute PCB 90
122	Unk	PCB-113	100.00	1.19e+08	1.56 y	34:42	-	1.07	
123	Unk	PCB-99	100.00	1.00e+08	1.62 y	34:47	-	0.898	
124	Unk	PCB-119	100.00	1.29e+08	1.57 y	35:14	-	1.16	
125	Unk	PCB-83	200.00	2.08e+08	1.57 y	35:22	-	0.934	Co-elute PCB 112
126	Unk	PCB-112	200.00	2.08e+08	1.57 y	35:22	-	0.934	Co-elute PCB 83
127	Unk	PCB-109	100.00	1.17e+08	1.57 y	35:31	-	1.05	
128	Unk	PCB-97	100.00	1.00e+08	1.57 y	35:43	-	0.898	
129	Unk	PCB-86	100.00	7.87e+07	1.53 y	35:51	-	0.706	
130	Unk	PCB-125	300.00	3.54e+08	1.56 y	35:58	-	1.06	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	3.54e+08	1.56 y	35:58	-	1.06	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	3.54e+08	1.56 y	35:58	-	1.06	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	2.68e+08	1.55 y	36:07	-	1.20	Co-elute PCB 115
134	Unk	PCB-115	200.00	2.68e+08	1.55 y	36:07	-	1.20	Co-elute PCB 111
135	Unk	PCB-85	200.00	2.21e+08	1.57 y	36:14	-	0.989	Co-elute PCB 116
136	Unk	PCB-116	200.00	2.21e+08	1.57 y	36:14	-	0.989	Co-elute PCB 85
137	Unk	PCB-120	100.00	1.33e+08	1.54 y	36:28	-	1.19	
138	Unk	PCB-110	100.00	1.31e+08	1.56 y	36:36	-	1.18	
139	Unk	PCB-82	100.00	7.65e+07	1.57 y	37:11	-	0.686	
140	Unk	PCB-124	100.00	1.25e+08	1.48 y	37:50	-	1.12	
141	Unk	PCB-108	200.00	2.26e+08	1.52 y	38:00	-	1.01	Co-elute PCB 107
142	Unk	PCB-107	200.00	2.26e+08	1.52 y	38:00	-	1.01	Co-elute PCB 108
143	Unk	PCB-123	100.00	1.25e+08	1.55 y	38:08	-	1.15	
144	IS	13C-PCB-123	100.00	1.09e+08	1.56 y	38:08	-	1.10	
145	Unk	PCB-118	200.00	2.33e+08	1.48 y	38:21	-	1.02	Co-elute PCB 106
146	Unk	PCB-106	200.00	2.33e+08	1.48 y	38:21	-	1.02	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	1.14e+08	1.58 y	38:18	-	1.16	
148	Unk	PCB-114	100.00	1.18e+08	1.50 y	38:56	-	1.06	
149	IS	13C-PCB-114	100.00	1.12e+08	1.60 y	38:56	-	1.13	
150	Unk	PCB-122	100.00	1.32e+08	1.51 y	39:04	-	1.18	
151	Unk	PCB-105	100.00	1.26e+08	1.52 y	39:45	-	1.13	
152	IS	13C-PCB-105	100.00	1.12e+08	1.59 y	39:44	-	1.13	
153	Unk	PCB-127	100.00	1.16e+08	1.53 y	40:05	-	1.04	
154	Unk	PCB-126	100.00	1.12e+08	1.54 y	41:54	-	1.16	
155	IS	13C-PCB-126	100.00	9.69e+07	1.60 y	41:52	-	0.981	

156	Unk	PCB-151	100.00	8.66e+07	1.28 y	37:35	-	0.883	
157	Unk	PCB-135	100.00	8.40e+07	1.25 y	37:47	-	0.856	
158	Unk	PCB-144	100.00	9.21e+07	1.26 y	37:53	-	0.939	
159	Unk	PCB-147	100.00	9.55e+07	1.29 y	38:02	-	0.974	
160	Unk	PCB-139	200.00	1.87e+08	1.26 y	38:17	-	0.952	Co-elute PCB 149
161	Unk	PCB-149	200.00	1.87e+08	1.26 y	38:17	-	0.952	Co-elute PCB 139
162	Unk	PCB-140	100.00	9.16e+07	1.27 y	38:26	-	0.934	
163	Unk	PCB-143	200.00	1.75e+08	1.24 y	38:51	-	0.894	Co-elute PCB 134
164	Unk	PCB-134	200.00	1.75e+08	1.24 y	38:51	-	0.894	Co-elute PCB 143
165	Unk	PCB-131	200.00	1.77e+08	1.26 y	39:08	-	0.900	Co-elute PCB 133
166	Unk	PCB-133	200.00	1.77e+08	1.26 y	39:08	-	0.900	Co-elute PCB 131
167	Unk	PCB-142	100.00	8.09e+07	1.25 y	39:17	-	0.825	
168	Unk	PCB-165	200.00	2.12e+08	1.26 y	39:29	-	1.08	Co-elute PCB 146
169	Unk	PCB-146	200.00	2.12e+08	1.26 y	39:29	-	1.08	Co-elute PCB 165
170	Unk	PCB-161	200.00	1.98e+08	1.26 y	39:42	-	1.01	Co-elute PCB 132
171	Unk	PCB-132	200.00	1.98e+08	1.26 y	39:42	-	1.01	Co-elute PCB 161
172	Unk	PCB-153	100.00	1.08e+08	1.26 y	39:52	-	1.10	
173	Unk	PCB-168	100.00	1.13e+08	1.26 y	40:05	-	1.15	
174	Unk	PCB-141	100.00	8.97e+07	1.25 y	40:35	-	0.914	
175	Unk	PCB-137	100.00	8.33e+07	1.23 y	40:56	-	0.849	
176	Unk	PCB-130	100.00	8.11e+07	1.28 y	41:03	-	0.827	
177	Unk	PCB-138	300.00	3.46e+08	1.25 y	41:24	-	1.17	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	3.46e+08	1.25 y	41:24	-	1.17	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	3.46e+08	1.25 y	41:24	-	1.17	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	2.30e+08	1.27 y	41:37	-	1.17	Co-elute PCB 160
181	Unk	PCB-160	200.00	2.30e+08	1.27 y	41:37	-	1.17	Co-elute PCB 158
182	Unk	PCB-129	100.00	7.52e+07	1.25 y	41:51	-	0.766	
183	Unk	PCB-166	100.00	1.11e+08	1.25 y	42:19	-	1.13	
184	Unk	PCB-159	100.00	1.19e+08	1.26 y	42:35	-	1.21	
185	Unk	PCB-128	200.00	1.86e+08	1.25 y	42:51	-	0.947	Co-elute PCB 162
186	Unk	PCB-162	200.00	1.86e+08	1.25 y	42:51	-	0.947	Co-elute PCB 128
187	Unk	PCB-167	100.00	1.06e+08	1.26 y	43:14	-	1.04	
188	IS	13C-PCB-167	100.00	1.03e+08	1.26 y	43:13	-	1.04	
189	Unk	PCB-156	100.00	1.09e+08	1.25 y	44:29	-	1.09	
190	IS	13C-PCB-156	100.00	1.00e+08	1.26 y	44:27	-	1.01	
191	Unk	PCB-157	100.00	1.02e+08	1.29 y	44:43	-	0.998	
192	IS	13C-PCB-157	100.00	1.02e+08	1.24 y	44:42	-	1.03	
193	Unk	PCB-169	100.00	8.94e+07	1.25 y	46:37	-	1.02	
194	IS	13C-PCB-169	100.00	8.79e+07	1.26 y	46:37	-	0.890	
195	Unk	PCB-188	100.00	1.29e+08	1.05 y	39:31	-	1.16	
196	IS	13C-PCB-188	100.00	1.11e+08	1.06 y	39:31	-	1.12	

197	Unk	PCB-184	100.00	1.24e+08	1.06 y	39:57	-	1.27	
198	Unk	PCB-179	100.00	1.24e+08	1.05 y	40:41	-	1.27	
199	Unk	PCB-176	100.00	1.22e+08	1.06 y	41:08	-	1.24	
200	Unk	PCB-186	100.00	1.17e+08	1.05 y	41:42	-	1.19	
201	Unk	PCB-178	100.00	8.85e+07	1.06 y	42:09	-	0.902	
202	Unk	PCB-175	100.00	9.10e+07	1.04 y	42:28	-	0.928	
203	Unk	PCB-187	200.00	1.92e+08	1.05 y	42:38	-	0.977	Co-elute PCB 182
204	Unk	PCB-182	200.00	1.92e+08	1.05 y	42:38	-	0.977	Co-elute PCB 187
205	Unk	PCB-183	100.00	9.73e+07	1.05 y	42:56	-	0.992	
206	Unk	PCB-185	100.00	8.54e+07	1.05 y	43:34	-	0.871	
207	Unk	PCB-174	100.00	9.30e+07	1.05 y	43:56	-	0.948	
208	Unk	PCB-181	100.00	7.97e+07	1.05 y	44:02	-	0.812	
209	Unk	PCB-177	100.00	8.28e+07	1.06 y	44:10	-	0.844	
210	Unk	PCB-171	100.00	8.76e+07	1.06 y	44:27	-	0.893	
211	Unk	PCB-173	100.00	7.74e+07	1.06 y	44:52	-	0.789	
212	Unk	PCB-172	100.00	8.18e+07	1.05 y	45:16	-	0.834	
213	Unk	PCB-192	100.00	1.04e+08	1.04 y	45:26	-	1.06	
214	Unk	PCB-180	100.00	9.58e+07	1.05 y	45:38	-	0.976	
215	Unk	PCB-193	100.00	1.13e+08	1.05 y	45:48	-	1.15	
216	Unk	PCB-191	100.00	1.10e+08	1.05 y	46:01	-	1.12	
217	Unk	PCB-170	100.00	7.57e+07	1.06 y	46:55	-	0.771	
218	Unk	PCB-190	100.00	1.04e+08	1.04 y	47:05	-	1.06	
219	Unk	PCB-189	100.00	9.83e+07	1.06 y	48:17	-	1.15	
220	IS	13C-PCB-189	100.00	8.54e+07	1.06 y	48:16	-	0.864	
221	Unk	PCB-202	150.00	1.29e+08	0.90 y	44:38	-	0.982	
222	Unk	PCB-201	150.00	1.35e+08	0.90 y	45:05	-	1.03	
223	Unk	PCB-204	150.00	1.32e+08	0.90 y	45:13	-	1.00	
224	Unk	PCB-197	150.00	1.32e+08	0.90 y	45:29	-	1.00	
225	Unk	PCB-200	150.00	1.31e+08	0.89 y	46:16	-	1.000	
226	Unk	PCB-198	150.00	9.38e+07	0.89 y	47:26	-	0.714	
227	Unk	PCB-199	150.00	8.82e+07	0.91 y	47:33	-	0.671	
228	Unk	PCB-203	300.00	1.95e+08	0.90 y	47:48	-	0.744	Co-elute PCB 196
229	Unk	PCB-196	300.00	1.95e+08	0.90 y	47:48	-	0.744	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	8.76e+07	0.92 y	44:37	-	0.887	
231	C/Up	13C-PCB-178	100.00	7.67e+07	1.07 y	42:09	-	0.776	
232	RS	13C-PCB-138	100.00	9.88e+07	1.26 y	41:21	9.88e+05	-	
233	Unk	PCB-195	150.00	9.16e+07	0.88 y	48:53	-	0.784	
234	Unk	PCB-194	150.00	1.02e+08	0.88 y	49:42	-	0.869	
235	Unk	PCB-205	150.00	1.25e+08	0.89 y	49:57	-	1.07	
236	IS	13C-PCB-205	100.00	7.80e+07	0.91 y	49:56	-	1.20	
237	Unk	PCB-208	150.00	1.35e+08	1.35 y	49:00	-	0.996	
238	IS	13C-PCB-208	100.00	9.06e+07	0.80 y	48:59	-	1.39	
239	Unk	PCB-207	150.00	1.25e+08	1.36 y	49:18	-	1.09	
240	Unk	PCB-206	150.00	9.90e+07	1.35 y	51:08	-	1.04	
241	IS	13C-PCB-206	100.00	6.33e+07	0.80 y	51:06	-	0.970	
242	Unk	PCB-209	150.00	1.47e+08	1.18 y	52:17	-	1.06	
243	IS	13C-PCB-209	100.00	9.29e+07	1.19 y	52:16	-	1.42	
244	RS	13C-PCB-194	100.00	6.52e+07	0.92 y	49:40	6.52e+05	-	

Analyst: _____ Date: 7/21/16

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 7/2/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 02JUL16Z Sam:1 Analysis Date: 2-JUL-16 11:09:53

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.12	2.66-3.60	y	48.2	37.5 - 62.5
PCB-3	M/M+2	3.15	2.66-3.60	y	46.4	37.5 - 62.5
PCB-4	M/M+2	1.52	1.33-1.79	y	44.6	37.5 - 62.5
PCB-15	M/M+2	1.53	1.33-1.79	y	44.3	37.5 - 62.5
PCB-19	M/M+2	1.03	0.88-1.20	y	48.1	37.5 - 62.5
PCB-37	M/M+2	1.02	0.88-1.20	y	46.8	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	47.6	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	48.9	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	45.9	37.5 - 62.5
PCB-104	M+2/M+4	1.60	1.32-1.78	y	44.3	37.5 - 62.5
PCB-105	M+2/M+4	1.53	1.32-1.78	y	44.0	37.5 - 62.5
PCB-114	M+2/M+4	1.53	1.32-1.78	y	46.6	37.5 - 62.5
PCB-118	M+2/M+4	1.51	1.32-1.78	y	49.5	37.5 - 62.5
PCB-123	M+2/M+4	1.53	1.32-1.78	y	44.4	37.5 - 62.5
PCB-126	M+2/M+4	1.51	1.32-1.78	y	43.3	37.5 - 62.5
PCB-155	M+2/M+4	1.29	1.05-1.43	y	47.7	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	45.6	37.5 - 62.5
PCB-157	M+2/M+4	1.28	1.05-1.43	y	49.8	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	47.5	37.5 - 62.5
PCB-169	M+2/M+4	1.21	1.05-1.43	y	47.7	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	44.0	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	46.6	37.5 - 62.5
PCB-202	M+2/M+4	0.90	0.76-1.02	y	51.1	37.5 - 62.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	48.2	37.5 - 62.5
PCB-206	M+4/M+6	1.34	1.13-1.53	y	42.8	37.5 - 62.5
PCB-208	M+4/M+6	1.37	1.13-1.53	y	47.4	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	52.1	37.5 - 62.5

Analyst: [signature] Date: 7/2/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 7/2/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 02JUL16Z Sam:1 Analysis Date: 2-JUL-16 11:09:53

	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	3.05	2.66-3.60	y	108	50.0 - 145
13C-PCB-3	M/M+2	3.13	2.66-3.60	y	109	50.0 - 145
13C-PCB-4	M/M+2	1.61	1.33-1.79	y	109	50.0 - 145
13C-PCB-15	M/M+2	1.64	1.33-1.79	y	104	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	116	50.0 - 145
13C-PCB-37	M/M+2	1.08	0.88-1.20	y	94.2	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	108	50.0 - 145
13C-PCB-77	M/M+2	0.83	0.65-0.89	y	94.0	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	91.7	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	122	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	102	50.0 - 145
13C-PCB-114	M+2/M+4	1.55	1.32-1.78	y	103	50.0 - 145
13C-PCB-118	M+2/M+4	1.57	1.32-1.78	y	108	50.0 - 145
13C-PCB-123	M+2/M+4	1.57	1.32-1.78	y	103	50.0 - 145
13C-PCB-126	M+2/M+4	1.58	1.32-1.78	y	98.7	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	117	50.0 - 145
13C-PCB-156	M+2/M+4	1.25	1.05-1.43	y	108	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	110	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	114	50.0 - 145
13C-PCB-169	M+2/M+4	1.25	1.05-1.43	y	104	50.0 - 145
13C-PCB-188	M+2/M+4	1.08	0.89-1.21	y	127	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	116	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	122	50.0 - 145
13C-PCB-205	M+2/M+4	0.92	0.76-1.02	y	109	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	126	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	105	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	105	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	98.3	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	111	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	120	75.0 - 125

Analyst: _____ Date: 7/2/16

FAL ID: ST070116Z1 Filename: 02JUL16Z Sam:1 Acquired: 2-JUL-16 11:09:53 ICal: DAILY209FAL4-7-2-16
Client ID: 1668 CS3 R150603A ConCal: ST070216Z1 EndCal: ST070216Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.12e+07	3.12 y	14:22	0.95	48.2		2.50	-	-	*	
13C-PCB-1	1.34e+08	3.05 y	14:21	1.24	108		2.50				108
PCB-3	5.69e+07	3.15 y	16:48	0.99	46.4		2.50	-	-	*	
13C-PCB-3	1.23e+08	3.13 y	16:47	1.14	109		2.50				109
PCB-4	3.41e+07	1.52 y	18:02	1.18	44.6		2.50	-	-	*	
13C-PCB-4	6.45e+07	1.61 y	17:60	0.59	109		2.50				109
PCB-15	4.81e+07	1.53 y	23:34	1.15	44.3		2.50	-	-	*	
13C-PCB-15	9.47e+07	1.64 y	23:32	0.91	104		2.50				104
PCB-19	3.44e+07	1.03 y	21:55	1.06	48.1		2.50	-	-	*	
13C-PCB-19	6.77e+07	1.07 y	21:53	0.59	116		2.50				116
13C-PCB-9	9.95e+07	1.62 y	19:41	-	48.2		2.50				
PCB-37	3.96e+07	1.02 y	30:13	1.17	46.8		2.50	-	-	*	
13C-PCB-37	7.20e+07	1.08 y	30:12	1.21	94.2		2.50				94.2
PCB-54	3.80e+07	0.79 y	25:26	1.09	47.6		2.50	-	-	*	
13C-PCB-54	7.31e+07	0.80 y	25:25	1.07	108		2.50				108
PCB-104	3.38e+07	1.60 y	29:53	1.23	44.3		2.50	-	-	*	
13C-PCB-104	6.22e+07	1.60 y	29:51	0.81	122		2.50				122
13C-PCB-28	8.81e+07	1.07 y	26:30	1.42	98.3		2.50				98.3
13C-PCB-52	6.32e+07	0.78 y	28:46	-	50.7		2.50				
PCB-81	3.24e+07	0.78 y	35:59	1.27	45.9		2.50	-	-	*	
13C-PCB-81	5.57e+07	0.80 y	35:58	1.12	91.7		2.50				91.7
PCB-77	3.15e+07	0.79 y	36:33	1.14	48.9		2.50	-	-	*	
13C-PCB-77	5.62e+07	0.83 y	36:32	1.10	94.0		2.50				94.0
PCB-155	3.47e+07	1.29 y	34:01	1.13	47.7		2.50	-	-	*	
13C-PCB-155	6.41e+07	1.28 y	34:00	1.01	117		2.50				117
13C-PCB-111	6.74e+07	1.60 y	36:05	1.13	111		2.50				111
13C-PCB-101	5.42e+07	1.58 y	34:27	-	50.3		2.50				
PCB-123	2.71e+07	1.53 y	38:10	1.15	44.4		2.50	-	-	*	
13C-PCB-123	5.31e+07	1.57 y	38:08	1.10	103		2.50				103
PCB-118	2.96e+07	1.51 y	38:20	1.02	49.5		2.50	-	-	*	
13C-PCB-118	5.86e+07	1.57 y	38:18	1.16	108		2.50				108
PCB-114	2.69e+07	1.53 y	38:58	1.06	46.6		2.50	-	-	*	
13C-PCB-114	5.45e+07	1.55 y	38:56	1.13	103		2.50				103
PCB-105	2.68e+07	1.53 y	39:45	1.13	44.0		2.50	-	-	*	
13C-PCB-105	5.39e+07	1.59 y	39:45	1.13	102		2.50				102
PCB-126	2.28e+07	1.51 y	41:54	1.16	43.3		2.50	-	-	*	
13C-PCB-126	4.55e+07	1.58 y	41:54	0.98	98.7		2.50				98.7
PCB-167	2.74e+07	1.26 y	43:14	1.04	47.5		2.50	-	-	*	
13C-PCB-167	5.56e+07	1.28 y	43:13	1.04	114		2.50				114
PCB-156	2.56e+07	1.25 y	44:28	1.09	45.6		2.50	-	-	*	
13C-PCB-156	5.15e+07	1.25 y	44:27	1.01	108		2.50				108
PCB-157	2.65e+07	1.28 y	44:43	1.00	49.8		2.50	-	-	*	
13C-PCB-157	5.33e+07	1.27 y	44:43	1.03	110		2.50				110
PCB-169	2.12e+07	1.21 y	46:39	1.02	47.7		2.50	-	-	*	
13C-PCB-169	4.37e+07	1.25 y	46:37	0.89	104		2.50				104
PCB-188	3.44e+07	1.05 y	39:32	1.16	44.0		2.50	-	-	*	
13C-PCB-188	6.71e+07	1.08 y	39:31	1.12	127		2.50				127
PCB-189	2.52e+07	1.05 y	48:17	1.15	46.6		2.50	-	-	*	
13C-PCB-189	4.70e+07	1.06 y	48:17	0.86	116		2.50				116
PCB-202	2.55e+07	0.90 y	44:38	0.98	51.1		2.50	-	-	*	
13C-PCB-202	5.09e+07	0.91 y	44:37	0.89	122		2.50				122
13C-PCB-178	4.37e+07	1.05 y	42:09	0.78	120		2.50				120
13C-PCB-138	4.70e+07	1.28 y	41:22	-	47.6		2.50				

FAL ID: ST070116Z1 Filename: 02JUL16Z Sam:1 Acquired: 2-JUL-16 11:09:53 ICal: DAILY209FAL4-7-2-16 2 of 2
Client ID: 1668 CS3 R150603A ConCal: ST070216Z1 EndCal: ST070216Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	2.08e+07	0.88 y	49:57	1.07	48.2	2.50	-	-	*	
13C-PCB-205	4.04e+07	0.92 y	49:56	1.20	109	2.50				109
PCB-208	2.13e+07	1.37 y	49:00	1.00	47.4	2.50	-	-	*	
13C-PCB-208	4.50e+07	0.80 y	48:59	1.39	105	2.50				105
PCB-206	1.69e+07	1.34 y	51:08	1.04	42.8	2.50	-	-	*	
13C-PCB-206	3.78e+07	0.79 y	51:06	0.97	126	2.50				126
PCB-209	2.54e+07	1.19 y	52:17	1.06	52.1	2.50	-	-	*	
13C-PCB-209	4.63e+07	1.20 y	52:17	1.42	105	2.50				105
13C-PCB-194	3.10e+07	0.92 y	49:40	-	47.5	2.50				

Analyst: [illegible] Date: 7/2/16

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 7/2/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 02JUL16Z Sam:12 Analysis Date: 2-JUL-16 22:09:22

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.15	2.66-3.60	y	50.3	37.5 - 62.5
PCB-3	M/M+2	3.17	2.66-3.60	y	51.4	37.5 - 62.5
PCB-4	M/M+2	1.55	1.33-1.79	y	47.3	37.5 - 62.5
PCB-15	M/M+2	1.54	1.33-1.79	y	47.5	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	50.1	37.5 - 62.5
PCB-37	M/M+2	1.03	0.88-1.20	y	49.7	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	48.1	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	50.0	37.5 - 62.5
PCB-81	M/M+2	0.80	0.65-0.89	y	47.2	37.5 - 62.5
PCB-104	M+2/M+4	1.60	1.32-1.78	y	45.2	37.5 - 62.5
PCB-105	M+2/M+4	1.57	1.32-1.78	y	48.8	37.5 - 62.5
PCB-114	M+2/M+4	1.56	1.32-1.78	y	51.5	37.5 - 62.5
PCB-118	M+2/M+4	1.54	1.32-1.78	y	52.3	37.5 - 62.5
PCB-123	M+2/M+4	1.52	1.32-1.78	y	45.8	37.5 - 62.5
PCB-126	M+2/M+4	1.53	1.32-1.78	y	46.3	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	47.9	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	47.6	37.5 - 62.5
PCB-157	M+2/M+4	1.28	1.05-1.43	y	50.3	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	48.9	37.5 - 62.5
PCB-169	M+2/M+4	1.23	1.05-1.43	y	48.0	37.5 - 62.5
PCB-188	M+2/M+4	1.04	0.89-1.21	y	44.4	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	47.7	37.5 - 62.5
PCB-202	M+2/M+4	0.89	0.76-1.02	y	51.2	37.5 - 62.5
PCB-205	M+2/M+4	0.86	0.76-1.02	y	47.7	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	45.5	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	47.0	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	52.4	37.5 - 62.5

Analyst: [illegible] Date: 7/2/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 7/2/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 02JUL16Z Sam:12 Analysis Date: 2-JUL-16 22:09:22

	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	3.10	2.66-3.60	y	105	50.0 - 145
13C-PCB-3	M/M+2	3.15	2.66-3.60	y	99.5	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	112	50.0 - 145
13C-PCB-15	M/M+2	1.67	1.33-1.79	y	99.0	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	106	50.0 - 145
13C-PCB-37	M/M+2	1.11	0.88-1.20	y	101	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	112	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	102	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	99.5	50.0 - 145
13C-PCB-104	M+2/M+4	1.61	1.32-1.78	y	115	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	111	50.0 - 145
13C-PCB-114	M+2/M+4	1.58	1.32-1.78	y	115	50.0 - 145
13C-PCB-118	M+2/M+4	1.57	1.32-1.78	y	119	50.0 - 145
13C-PCB-123	M+2/M+4	1.57	1.32-1.78	y	113	50.0 - 145
13C-PCB-126	M+2/M+4	1.62	1.32-1.78	y	106	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	111	50.0 - 145
13C-PCB-156	M+2/M+4	1.27	1.05-1.43	y	105	50.0 - 145
13C-PCB-157	M+2/M+4	1.23	1.05-1.43	y	109	50.0 - 145
13C-PCB-167	M+2/M+4	1.25	1.05-1.43	y	111	50.0 - 145
13C-PCB-169	M+2/M+4	1.25	1.05-1.43	y	101	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	123	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	101	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	108	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	103	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	111	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	90.5	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.08	0.88-1.20	y	106	65.0 - 135
13C-PCB-111	M+2/M+4	1.59	1.32-1.78	y	110	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	111	75.0 - 125

Analyst: [illegible] Date: 7/2/16

FAL ID: ST070116Y2 Filename: 02JUL16Z Sam:12 Acquired: 2-JUL-16 22:09:22 ICal: DAILY209FAL4-7-2-16
Client ID: 1668 CS3 R150603A ConCal: ST070216Z1 EndCal: ST070216Z2
Results: GC Column: DB1 Amount: 1.000

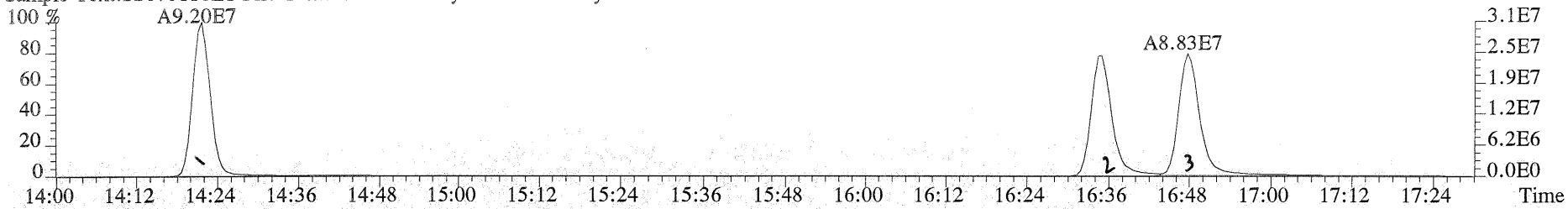
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	9.39e+07	3.15 y	14:22	0.95	50.3		2.50	-	-	*	
13C-PCB-1	1.97e+08	3.10 y	14:21	1.24	105		2.50				105
PCB-3	8.75e+07	3.17 y	16:49	0.99	51.4		2.50	-	-	*	
13C-PCB-3	1.71e+08	3.15 y	16:48	1.14	99.5		2.50				99.5
PCB-4	5.63e+07	1.55 y	18:02	1.18	47.3		2.50	-	-	*	
13C-PCB-4	1.00e+08	1.60 y	18:01	0.59	112		2.50				112
PCB-15	7.45e+07	1.54 y	23:35	1.15	47.5		2.50	-	-	*	
13C-PCB-15	1.37e+08	1.67 y	23:33	0.91	99.0		2.50				99.0
PCB-19	4.97e+07	1.04 y	21:55	1.06	50.1		2.50	-	-	*	
13C-PCB-19	9.39e+07	1.07 y	21:54	0.59	106		2.50				106
13C-PCB-9	1.51e+08	1.62 y	19:42	-	73.3		2.50				
PCB-37	6.18e+07	1.03 y	30:14	1.17	49.7		2.50	-	-	*	
13C-PCB-37	1.06e+08	1.11 y	30:13	1.21	101		2.50				101
PCB-54	5.52e+07	0.79 y	25:27	1.09	48.1		2.50	-	-	*	
13C-PCB-54	1.05e+08	0.80 y	25:25	1.07	112		2.50				112
PCB-104	4.49e+07	1.60 y	29:53	1.23	45.2		2.50	-	-	*	
13C-PCB-104	8.09e+07	1.61 y	29:51	0.81	115		2.50				115
13C-PCB-28	1.31e+08	1.08 y	26:30	1.42	106		2.50				106
13C-PCB-52	8.71e+07	0.79 y	28:46	-	69.9		2.50				
PCB-81	4.84e+07	0.80 y	35:59	1.27	47.2		2.50	-	-	*	
13C-PCB-81	8.09e+07	0.80 y	35:58	1.12	99.5		2.50				99.5
PCB-77	4.69e+07	0.80 y	36:33	1.14	50.0		2.50	-	-	*	
13C-PCB-77	8.18e+07	0.81 y	36:32	1.10	102		2.50				102
PCB-155	4.43e+07	1.27 y	34:01	1.13	47.9		2.50	-	-	*	
13C-PCB-155	8.15e+07	1.29 y	34:00	1.01	111		2.50				111
13C-PCB-111	8.94e+07	1.59 y	36:05	1.13	110		2.50				110
13C-PCB-101	7.24e+07	1.60 y	34:27	-	67.2		2.50				
PCB-123	4.07e+07	1.52 y	38:10	1.15	45.8		2.50	-	-	*	
13C-PCB-123	7.74e+07	1.57 y	38:08	1.10	113		2.50				113
PCB-118	4.58e+07	1.54 y	38:20	1.02	52.3		2.50	-	-	*	
13C-PCB-118	8.58e+07	1.57 y	38:18	1.16	119		2.50				119
PCB-114	4.43e+07	1.56 y	38:58	1.06	51.5		2.50	-	-	*	
13C-PCB-114	8.11e+07	1.58 y	38:56	1.13	115		2.50				115
PCB-105	4.30e+07	1.57 y	39:45	1.13	48.8		2.50	-	-	*	
13C-PCB-105	7.80e+07	1.61 y	39:45	1.13	111		2.50				111
PCB-126	3.48e+07	1.53 y	41:54	1.16	46.3		2.50	-	-	*	
13C-PCB-126	6.49e+07	1.62 y	41:52	0.98	106		2.50				106
PCB-167	3.65e+07	1.25 y	43:14	1.04	48.9		2.50	-	-	*	
13C-PCB-167	7.20e+07	1.25 y	43:13	1.04	111		2.50				111
PCB-156	3.43e+07	1.25 y	44:29	1.09	47.6		2.50	-	-	*	
13C-PCB-156	6.61e+07	1.27 y	44:27	1.01	105		2.50				105
PCB-157	3.53e+07	1.28 y	44:43	1.00	50.3		2.50	-	-	*	
13C-PCB-157	7.03e+07	1.23 y	44:42	1.03	109		2.50				109
PCB-169	2.72e+07	1.23 y	46:37	1.02	48.0		2.50	-	-	*	
13C-PCB-169	5.59e+07	1.25 y	46:37	0.89	101		2.50				101
PCB-188	4.46e+07	1.04 y	39:31	1.16	44.4		2.50	-	-	*	
13C-PCB-188	8.63e+07	1.06 y	39:29	1.12	123		2.50				123
PCB-189	2.98e+07	1.06 y	48:17	1.15	47.7		2.50	-	-	*	
13C-PCB-189	5.43e+07	1.06 y	48:16	0.86	101		2.50				101
PCB-202	3.10e+07	0.89 y	44:38	0.98	51.2		2.50	-	-	*	
13C-PCB-202	6.17e+07	0.90 y	44:37	0.89	112		2.50				112
13C-PCB-178	5.36e+07	1.06 y	42:09	0.78	111		2.50				111
13C-PCB-138	6.23e+07	1.26 y	41:21	-	63.1		2.50				

FAL ID: ST070116Y2 Filename: 02JUL16Z Sam:12 Acquired: 2-JUL-16 22:09:22 ICal: DAILY209FAL4-7-2-16
Client ID: 1668 CS3 R150603A ConCal: ST070216Z1 EndCal: ST070216Z2
Results: GC Column: DB1 Amount: 1.000

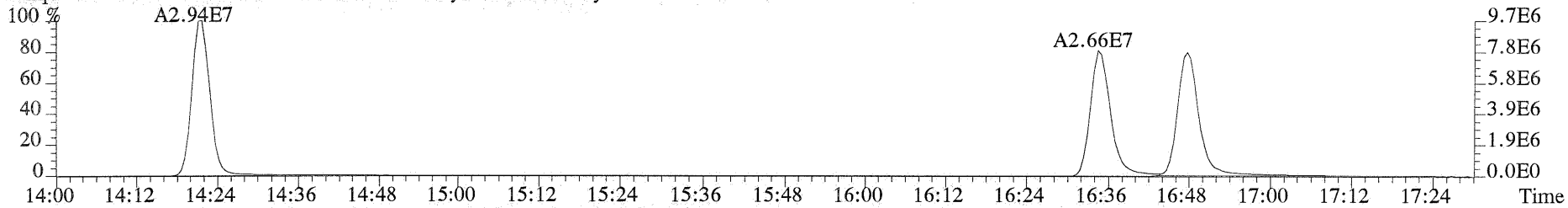
PCB-205	2.86e+07	0.86	y	49:57	1.07	47.7	2.50	-	-	*	
13C-PCB-205	5.61e+07	0.90	y	49:56	1.20	108	2.50				108
PCB-208	3.14e+07	1.36	y	49:00	1.00	47.0	2.50	-	-	*	
13C-PCB-208	6.72e+07	0.80	y	48:59	1.39	111	2.50				111
PCB-206	2.05e+07	1.36	y	51:06	1.04	45.5	2.50	-	-	*	
13C-PCB-206	4.33e+07	0.79	y	51:06	0.97	103	2.50				103
PCB-209	3.09e+07	1.19	y	52:17	1.06	52.4	2.50	-	-	*	
13C-PCB-209	5.59e+07	1.19	y	52:16	1.42	90.5	2.50				90.5
13C-PCB-194	4.34e+07	0.92	y	49:40	-	66.5	2.50				

Analyst: S Date: 7/2/16

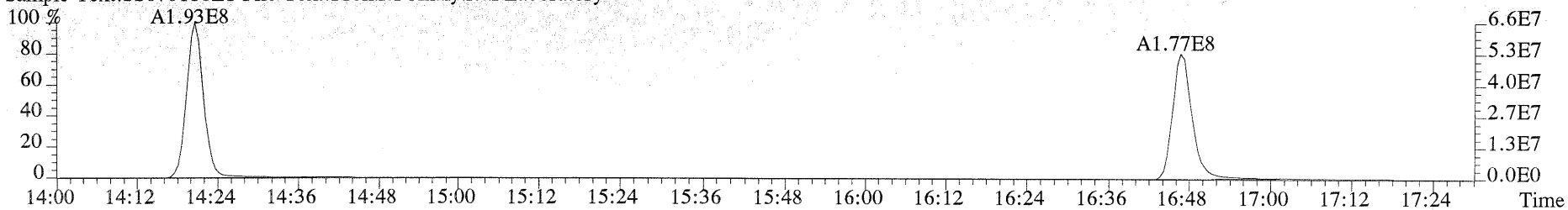
File:02JUL16Z #1-901 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



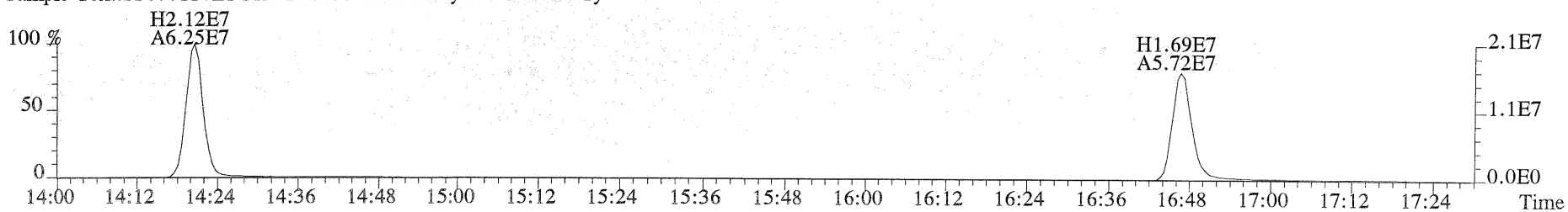
File:02JUL16Z #1-901 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



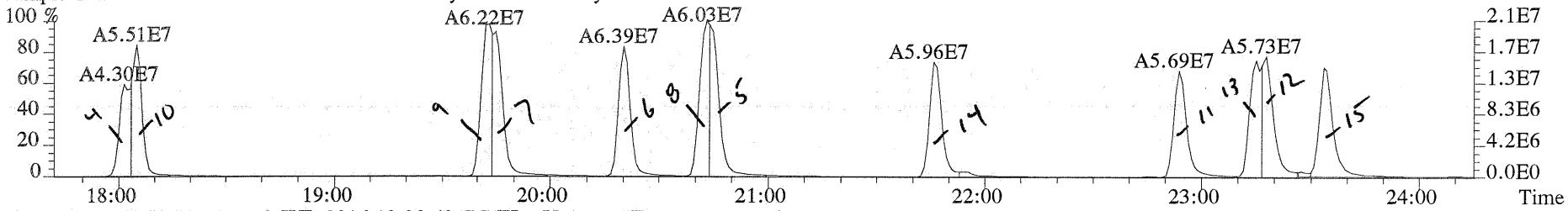
File:02JUL16Z #1-901 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



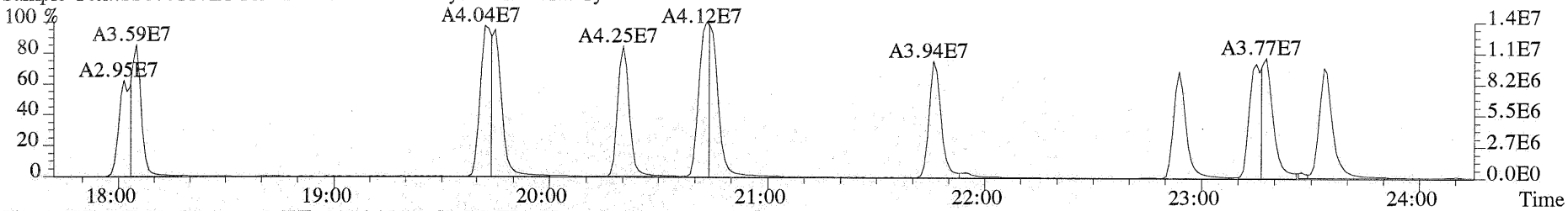
File:02JUL16Z #1-901 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



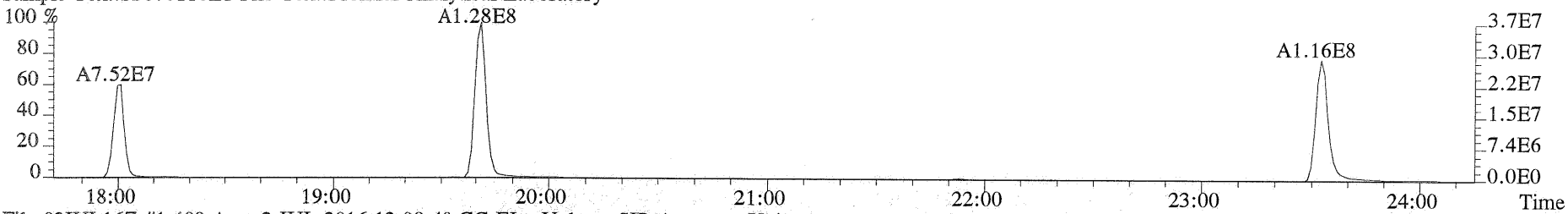
File:02JUL16Z #1-498 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



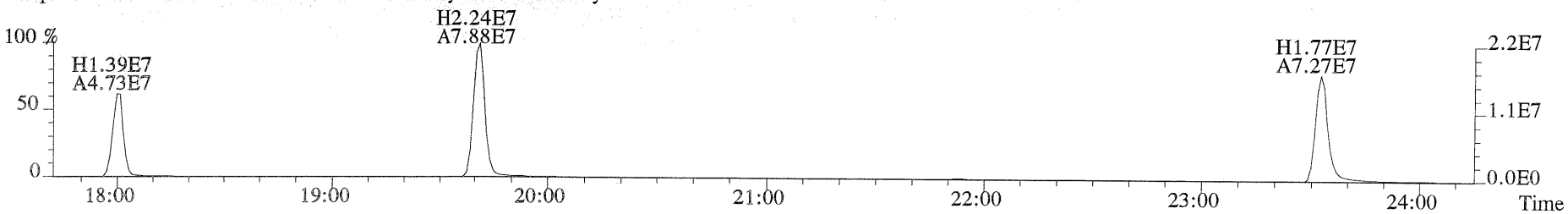
File:02JUL16Z #1-498 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



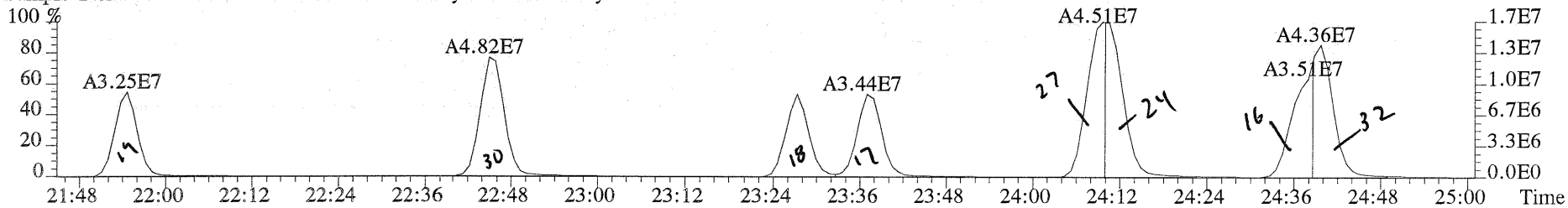
File:02JUL16Z #1-498 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



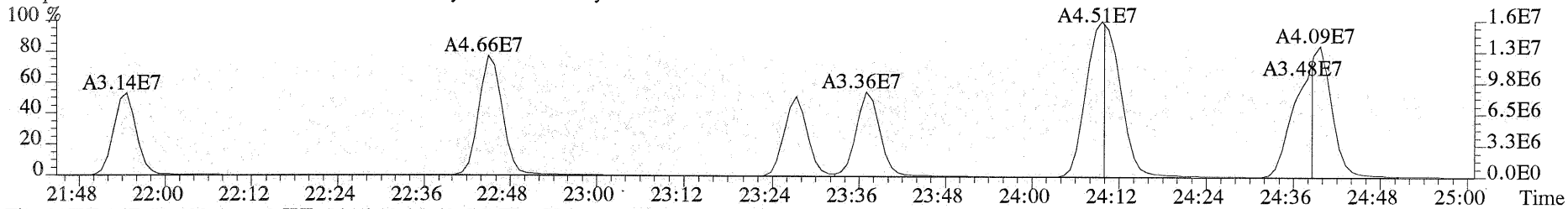
File:02JUL16Z #1-498 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



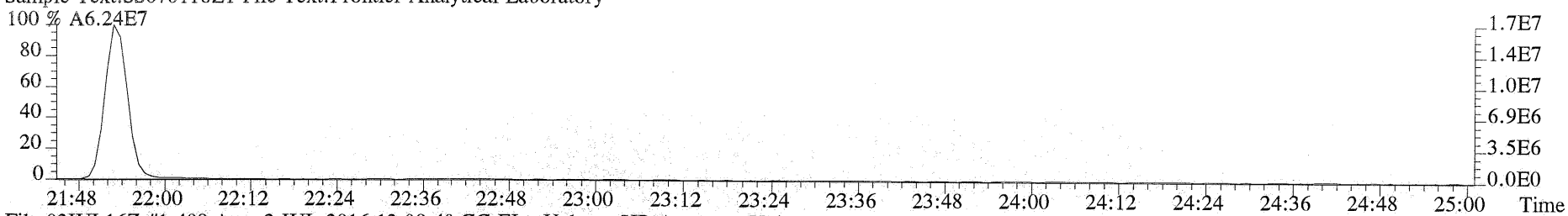
File:02JUL16Z #1-498 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



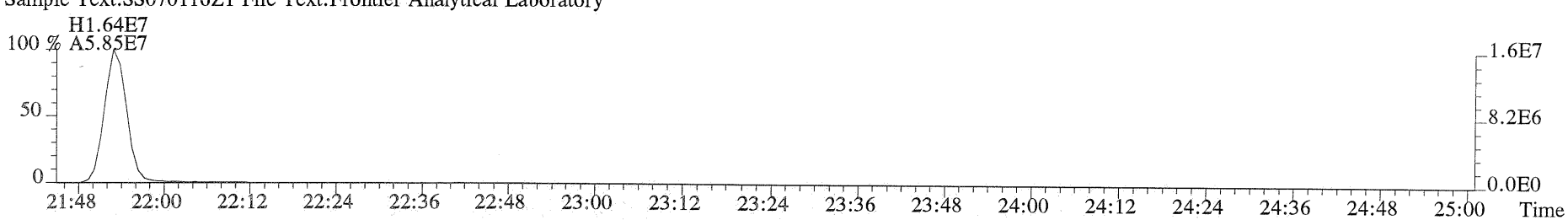
File:02JUL16Z #1-498 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



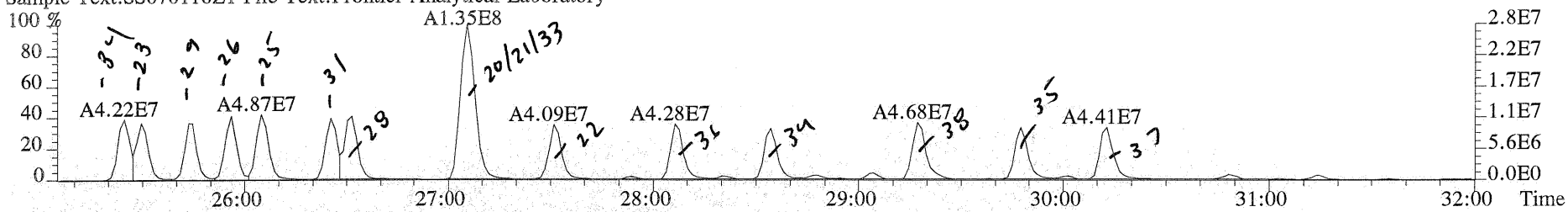
File:02JUL16Z #1-498 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



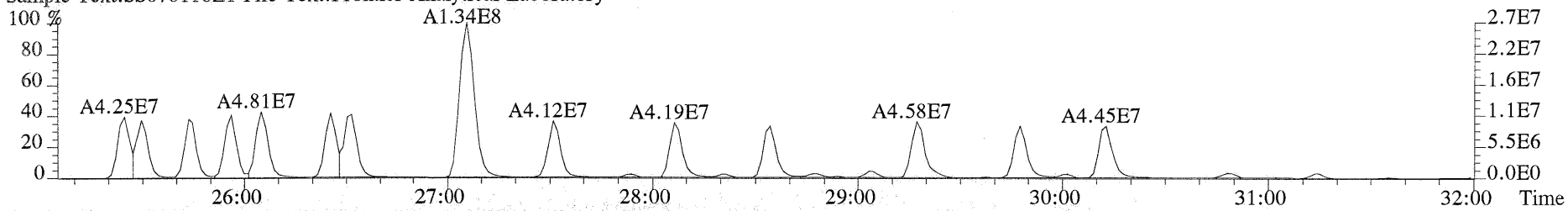
File:02JUL16Z #1-498 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-404 Acq: 2-JUL-2016 12:09:48 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:SS070116Z1 File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-404 Acq: 2-JUL-2016 12:09:48 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:SS070116Z1 File Text:Frontier Analytical Laboratory



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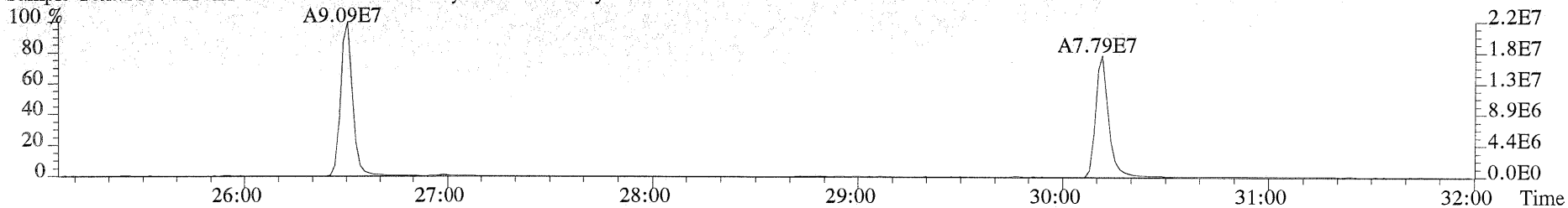
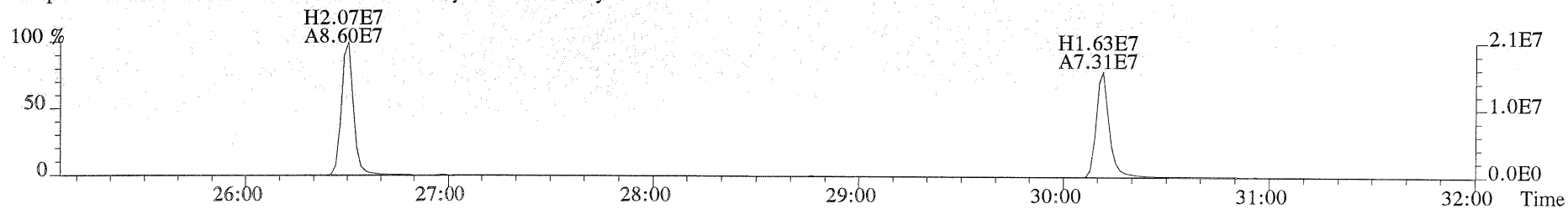
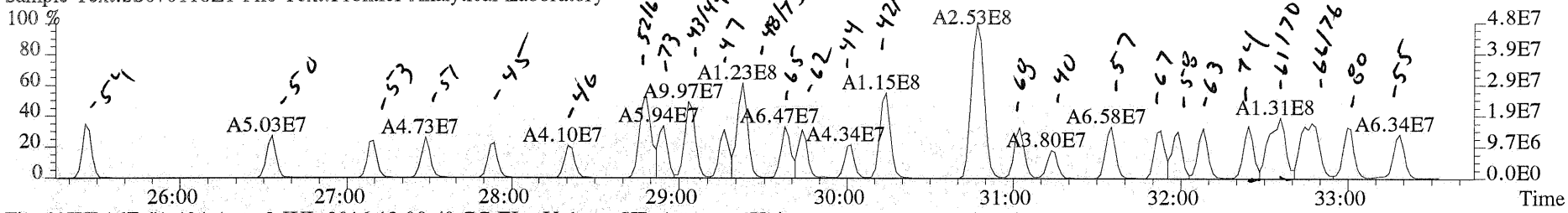
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



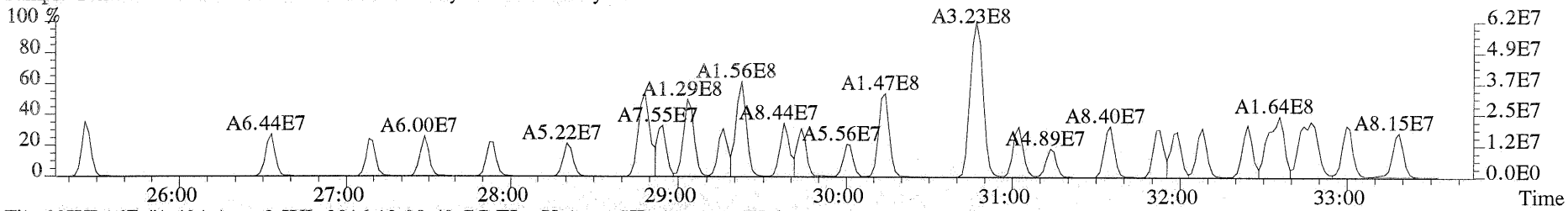
File:02JUL16Z #1-404 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



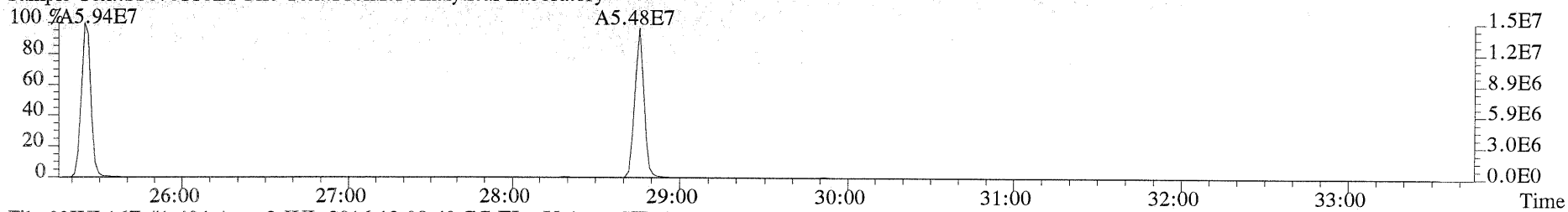
File:02JUL16Z #1-404 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



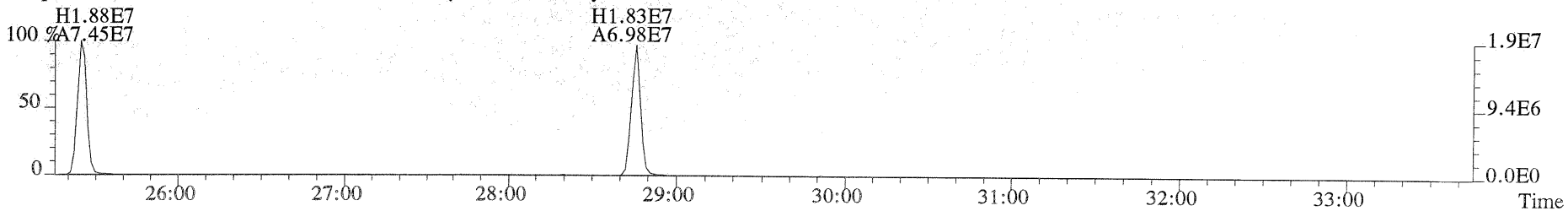
File:02JUL16Z #1-404 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



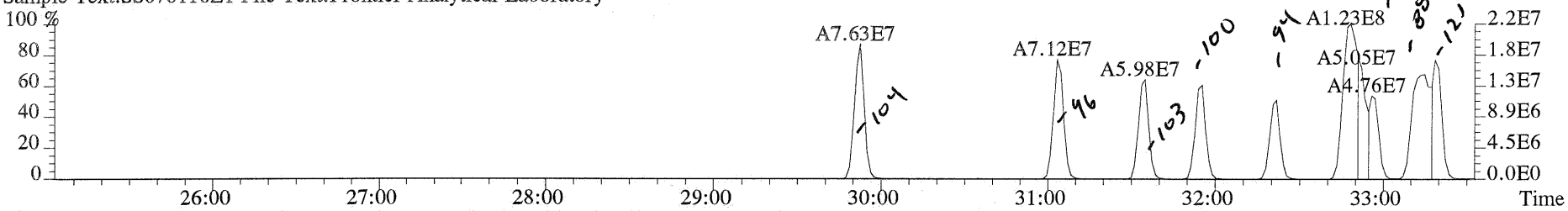
File:02JUL16Z #1-404 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



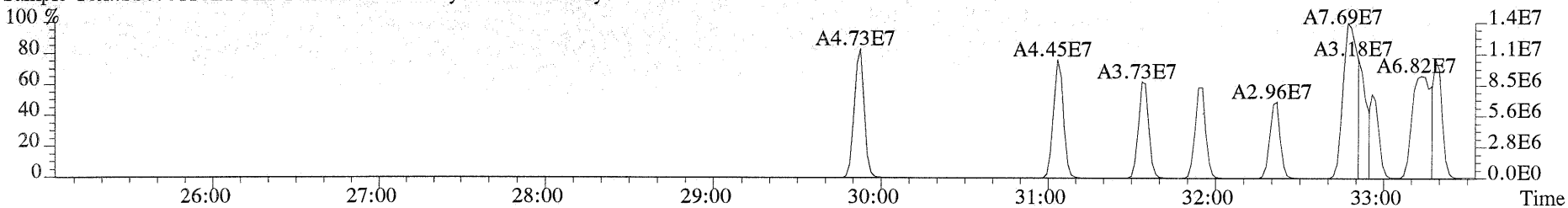
File:02JUL16Z #1-404 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



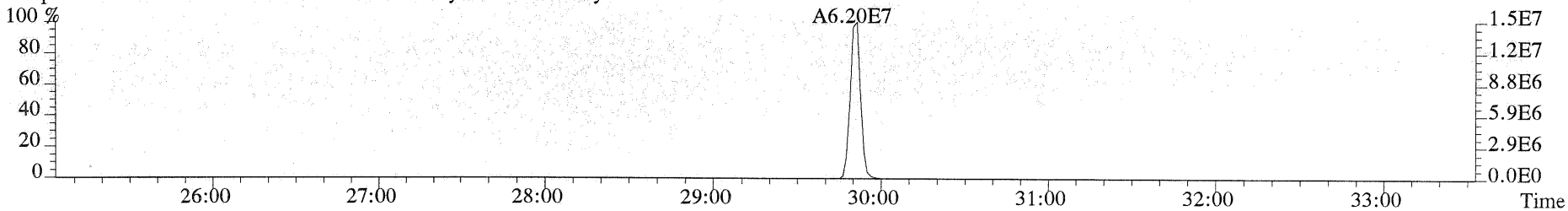
File:02JUL16Z #1-404 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



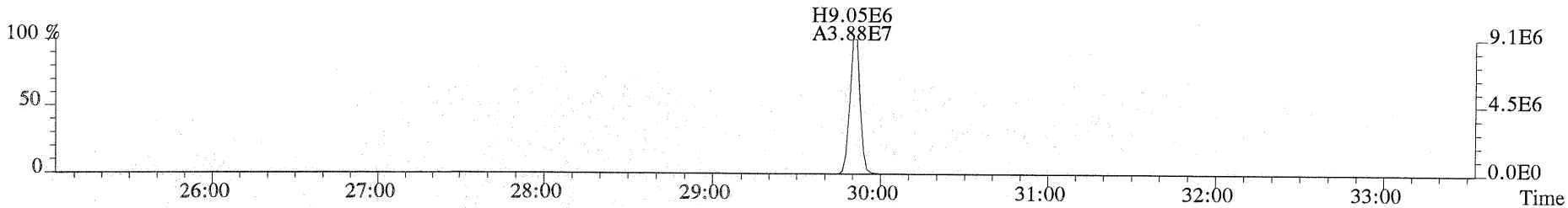
File:02JUL16Z #1-404 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



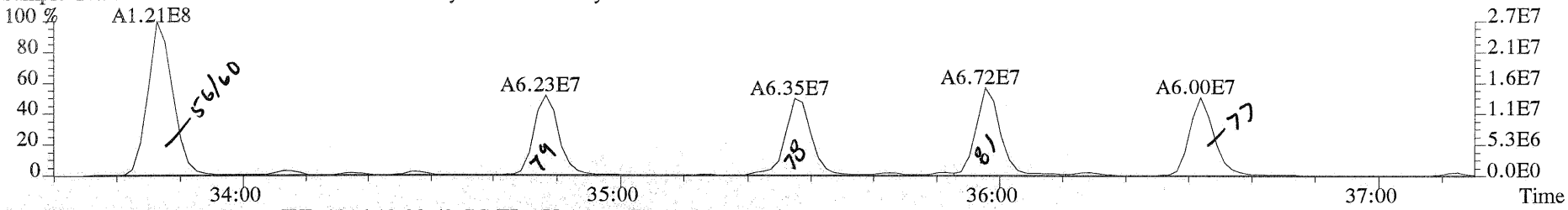
File:02JUL16Z #1-404 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



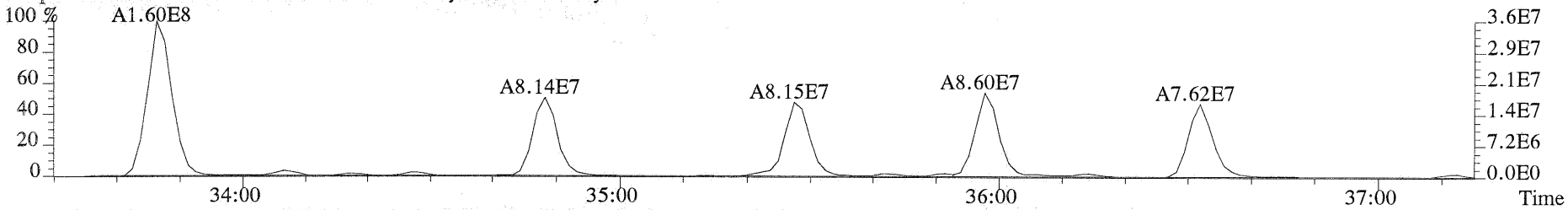
File:02JUL16Z #1-404 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



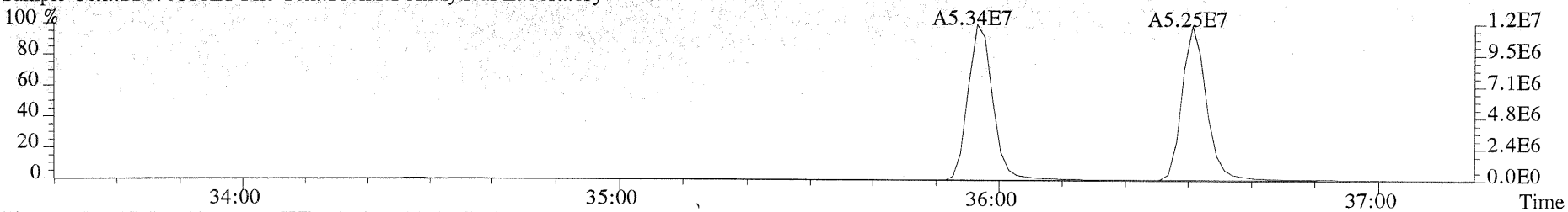
File:02JUL16Z #1-180 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



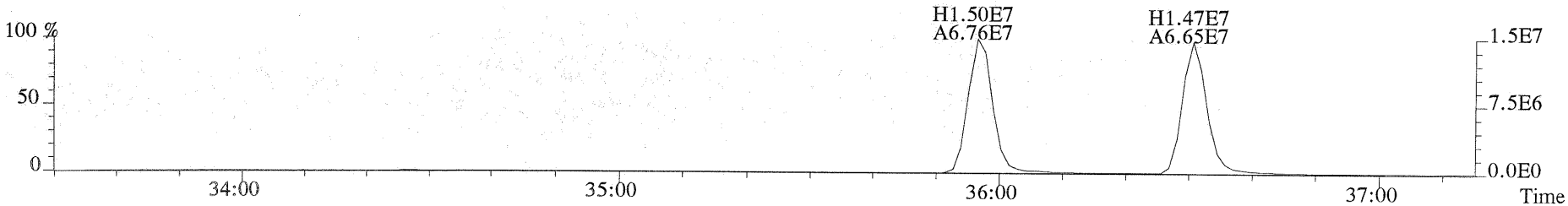
File:02JUL16Z #1-180 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



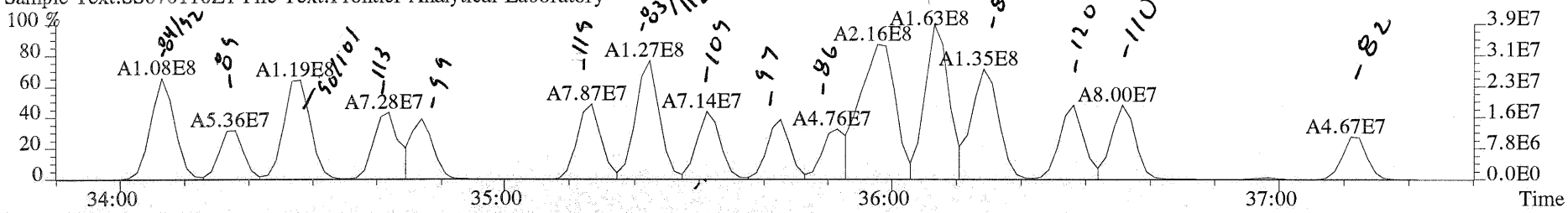
File:02JUL16Z #1-180 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



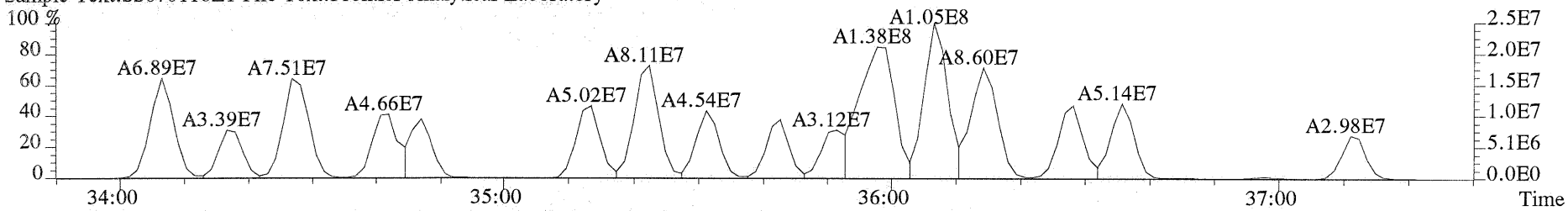
File:02JUL16Z #1-180 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



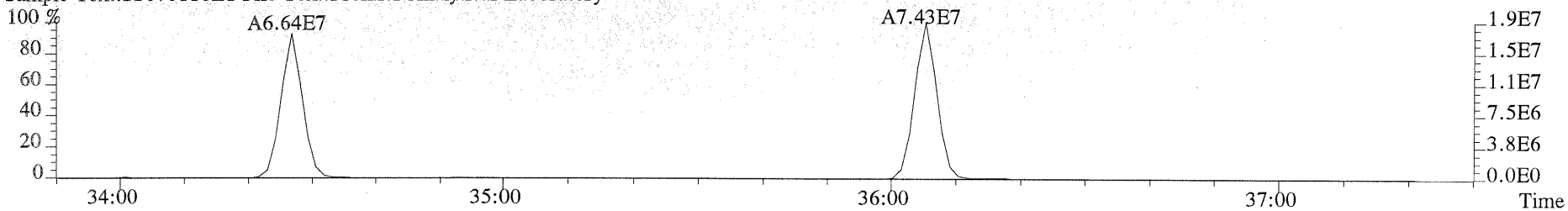
File:02JUL16Z #1-180 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



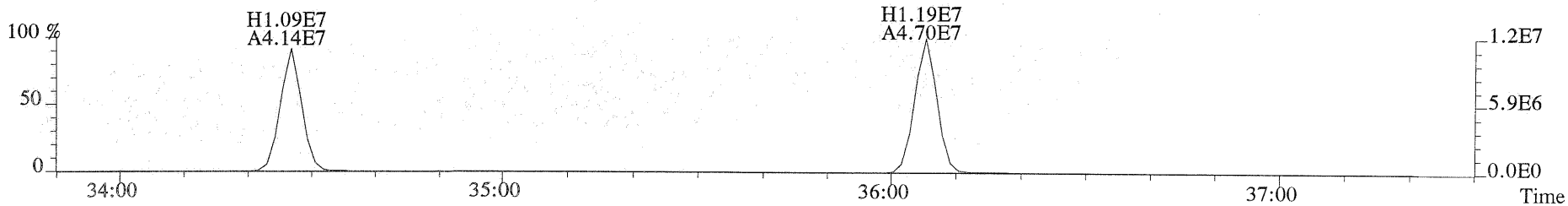
File:02JUL16Z #1-180 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



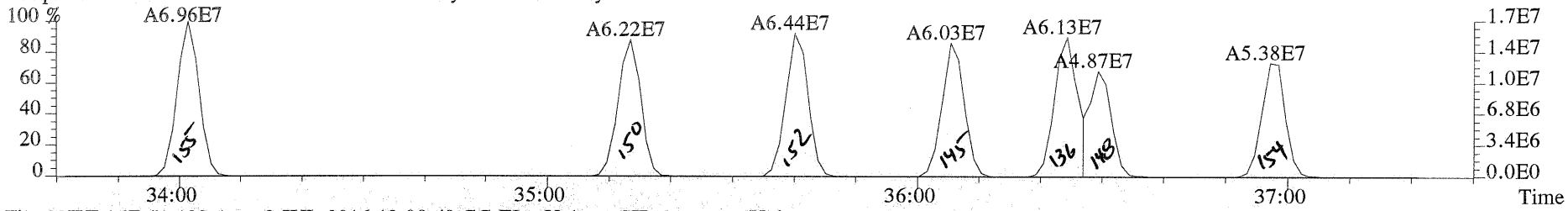
File:02JUL16Z #1-180 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



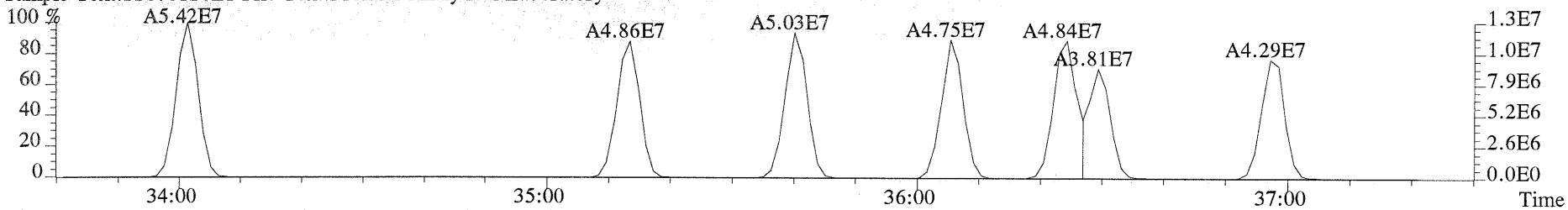
File:02JUL16Z #1-180 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



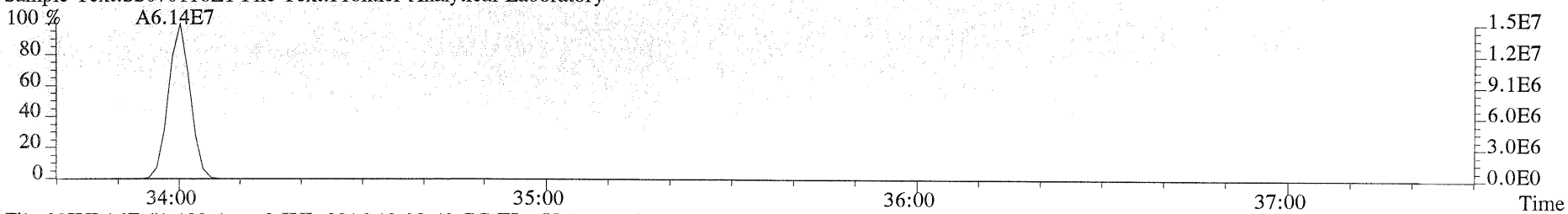
File:02JUL16Z #1-180 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



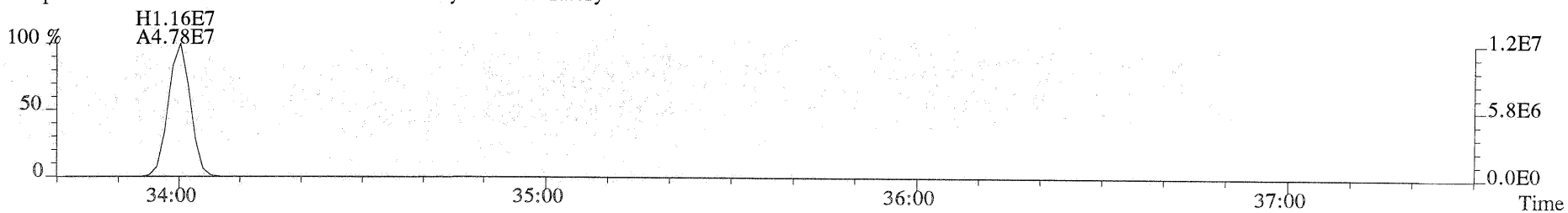
File:02JUL16Z #1-180 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



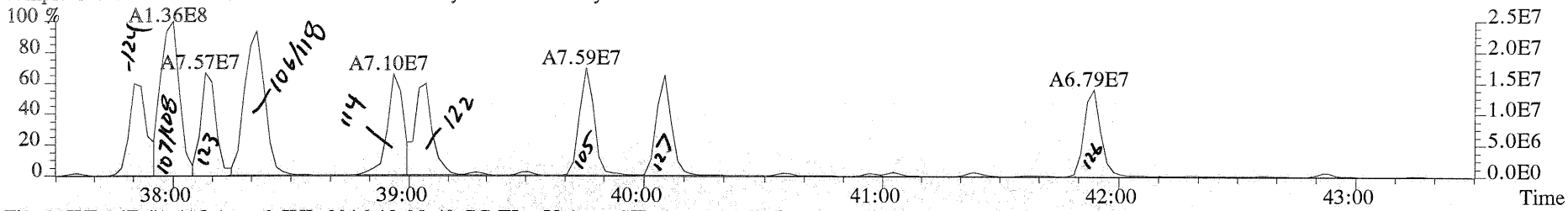
File:02JUL16Z #1-180 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



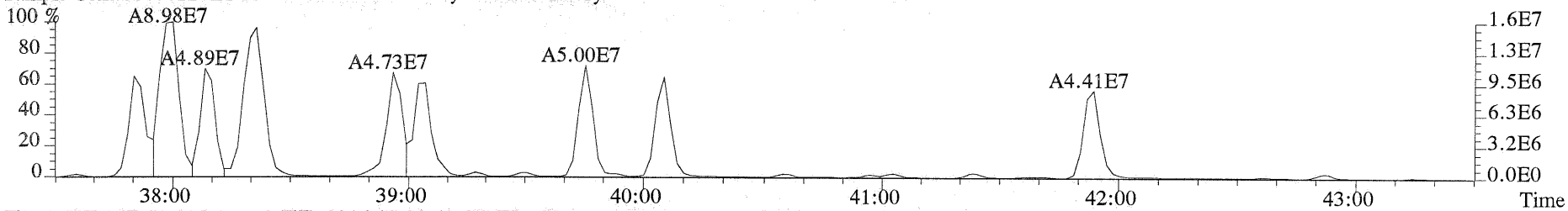
File:02JUL16Z #1-180 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



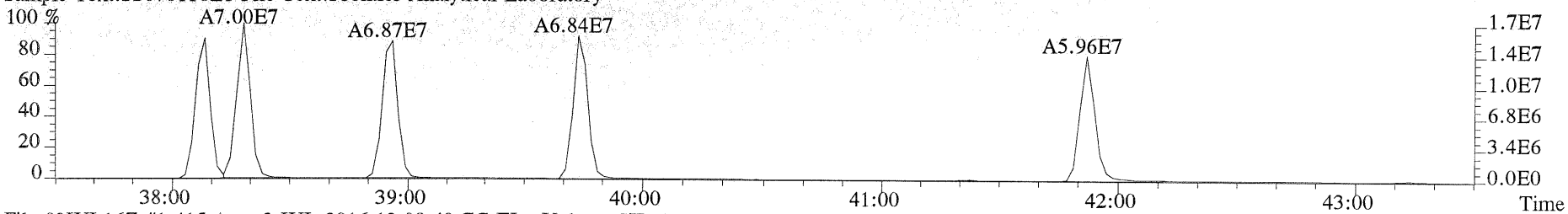
File:02JUL16Z #1-415 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



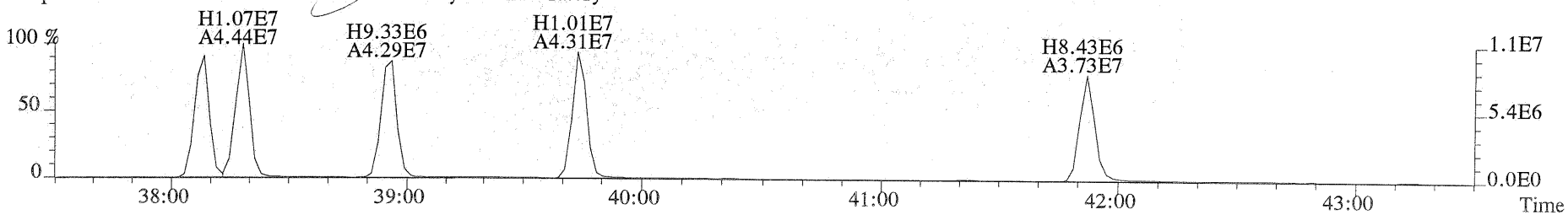
File:02JUL16Z #1-415 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



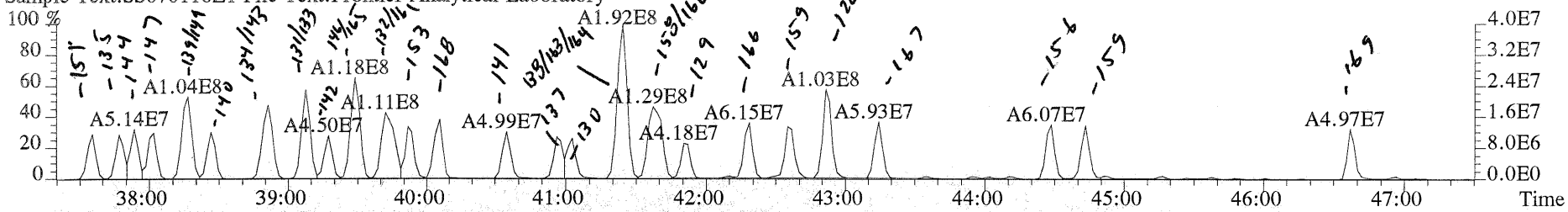
File:02JUL16Z #1-415 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



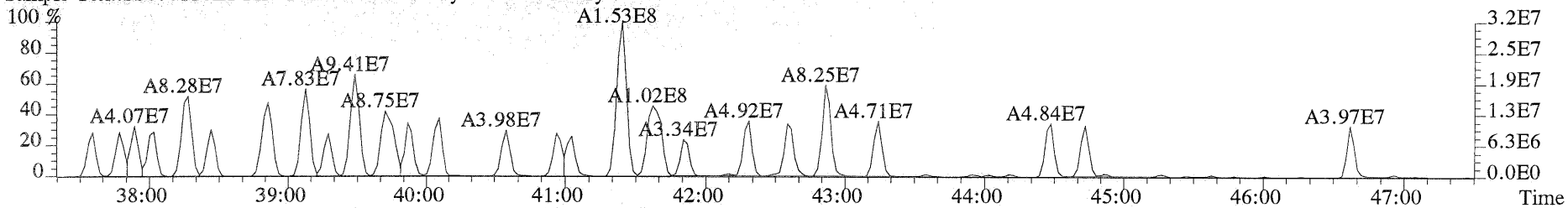
File:02JUL16Z #1-415 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



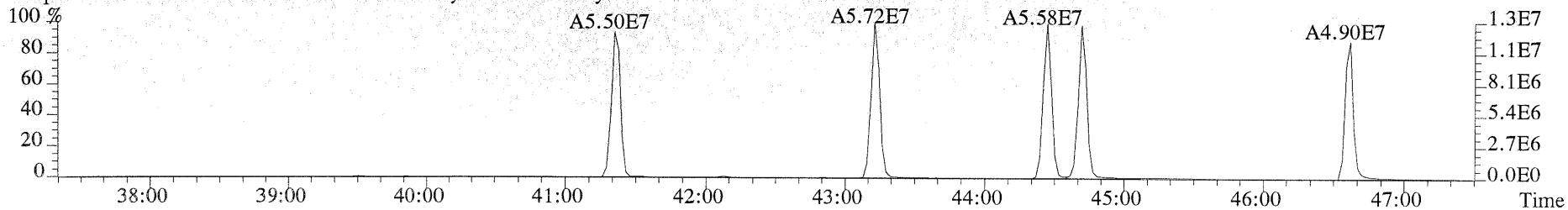
File:02JUL16Z #1-415 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



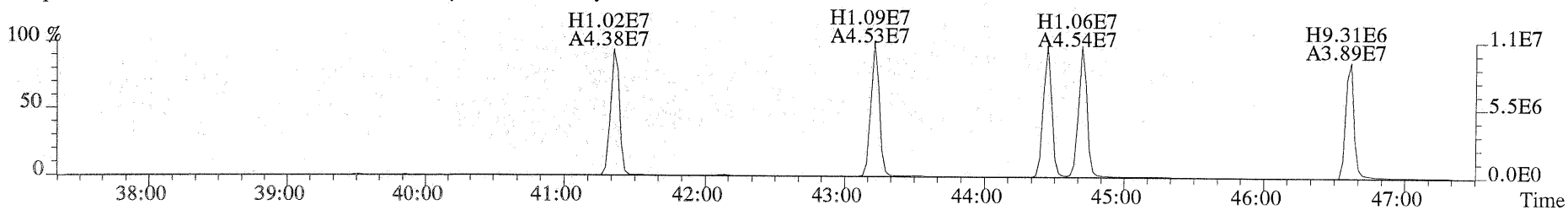
File:02JUL16Z #1-415 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



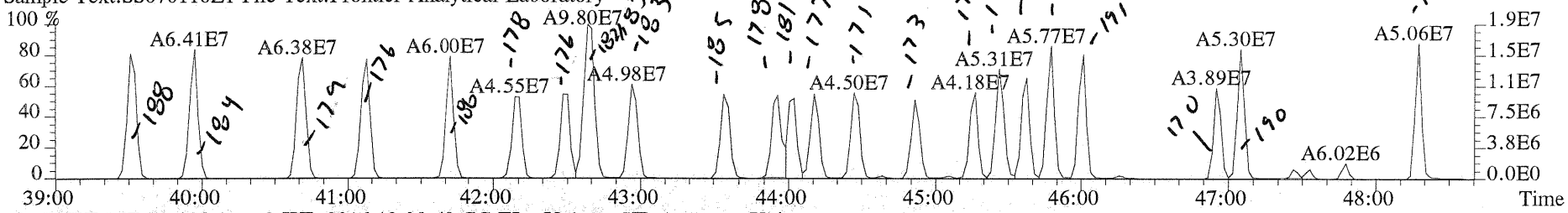
File:02JUL16Z #1-415 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



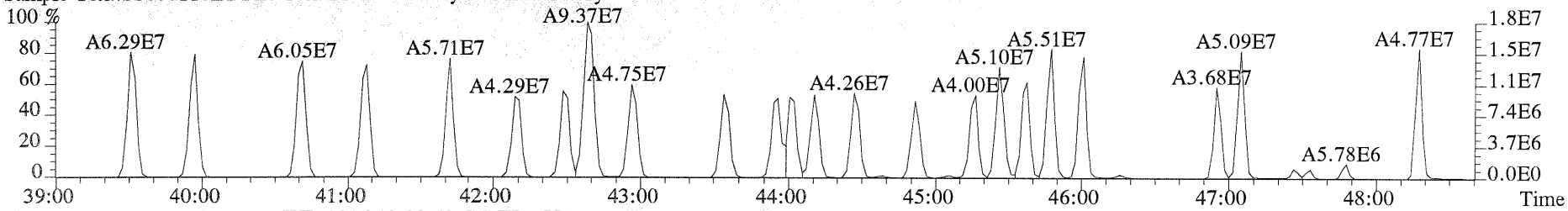
File:02JUL16Z #1-415 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



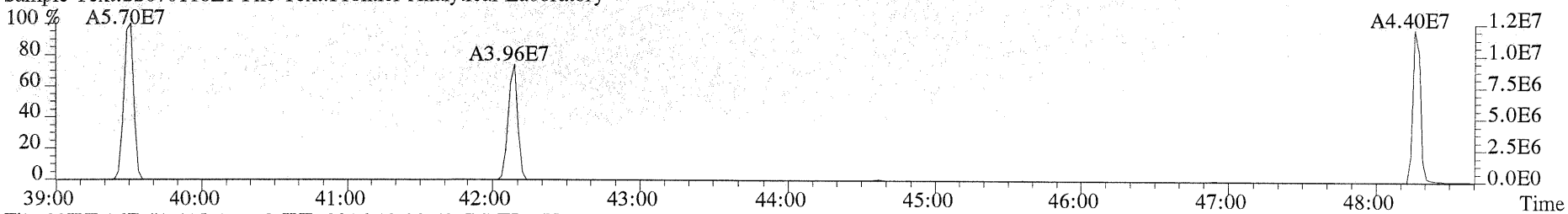
File:02JUL16Z #1-415 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



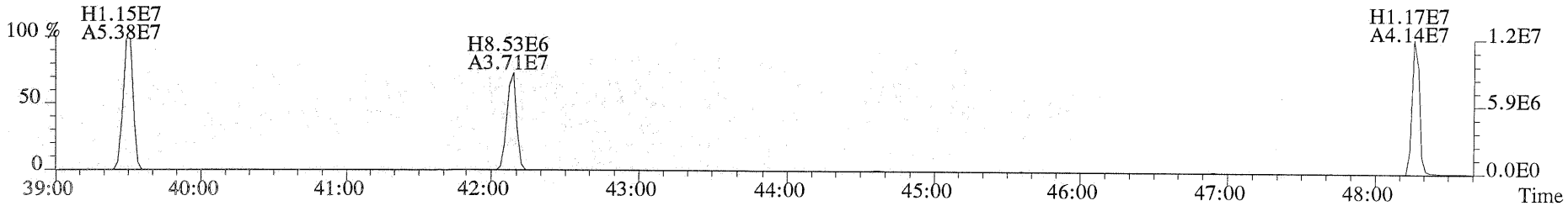
File:02JUL16Z #1-415 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



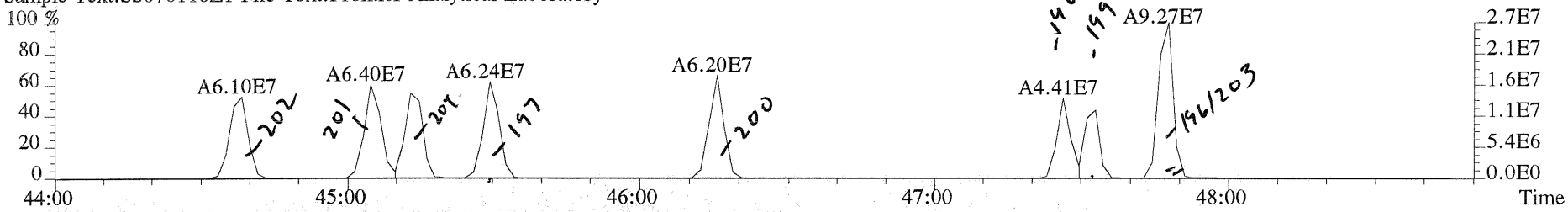
File:02JUL16Z #1-415 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



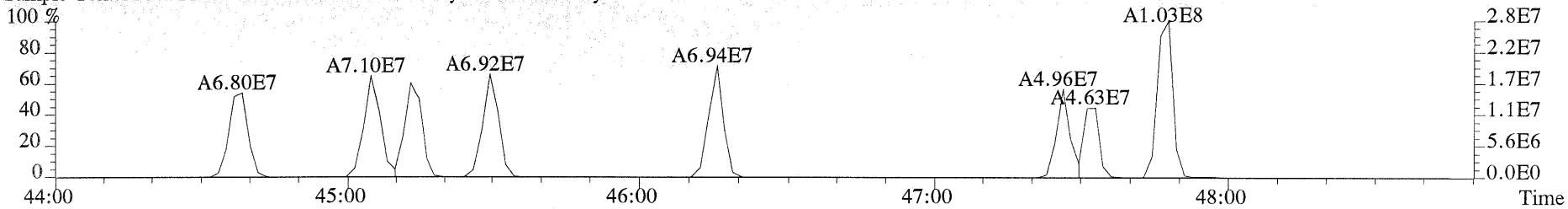
File:02JUL16Z #1-415 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



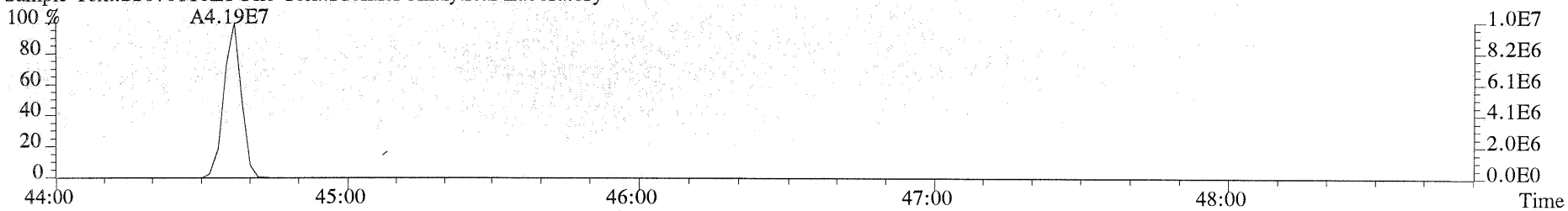
File:02JUL16Z #1-415 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



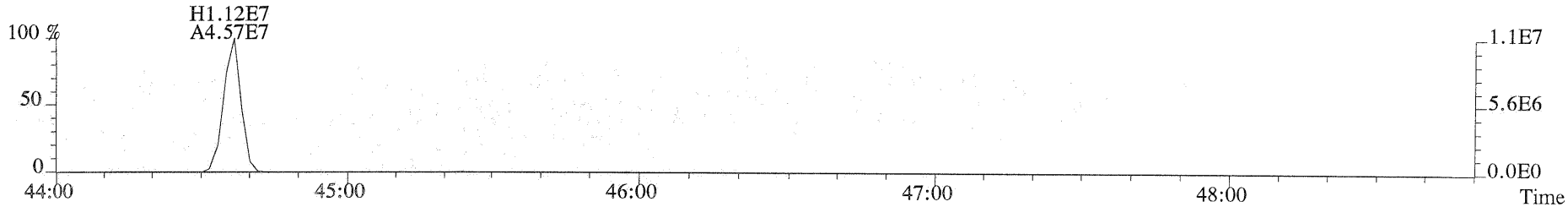
File:02JUL16Z #1-415 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



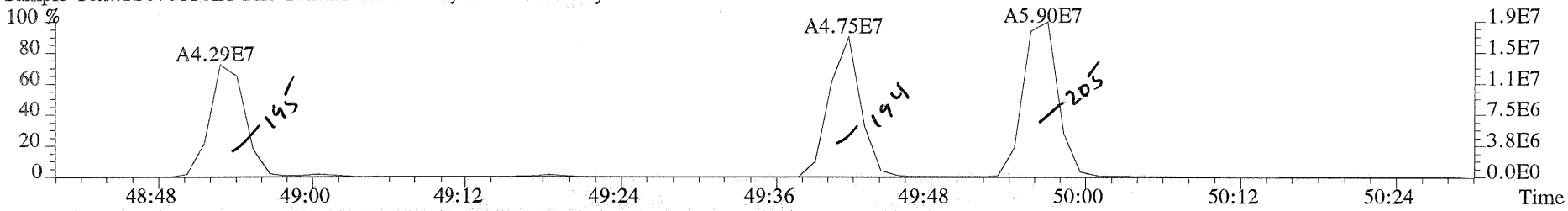
File:02JUL16Z #1-415 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



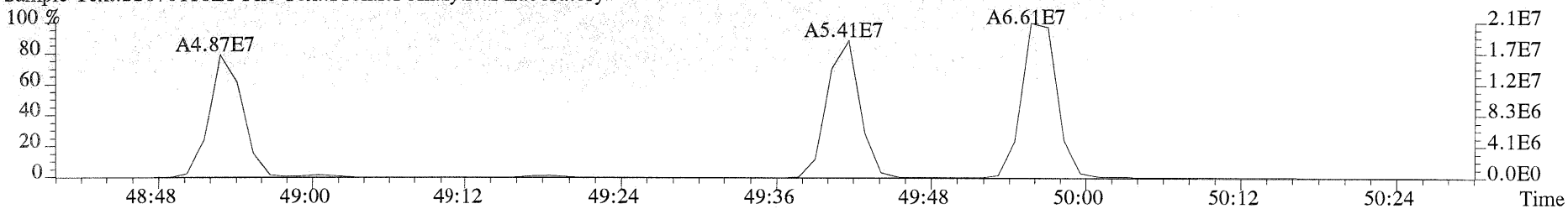
File:02JUL16Z #1-415 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



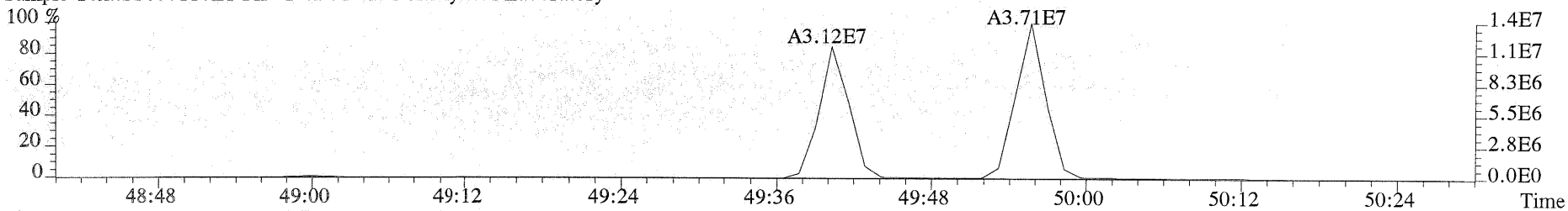
File:02JUL16Z #1-221 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



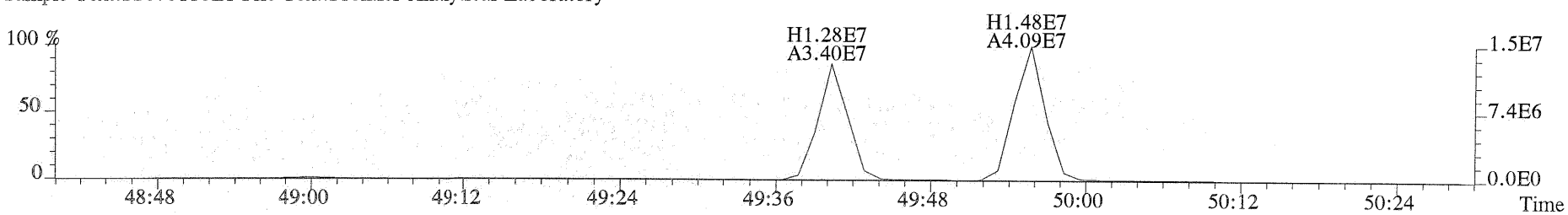
File:02JUL16Z #1-221 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



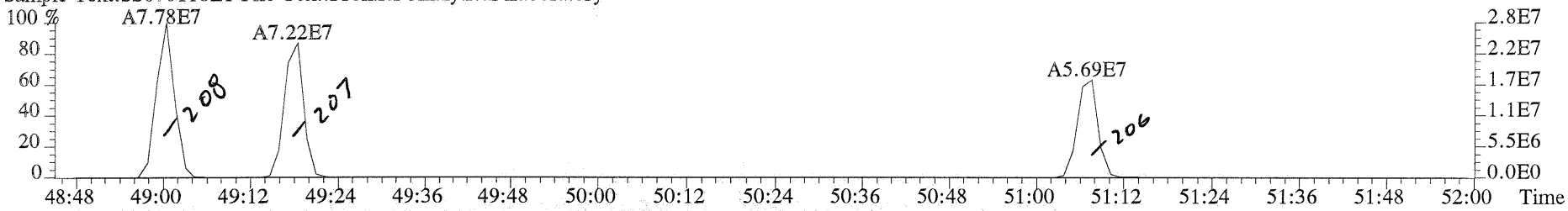
File:02JUL16Z #1-221 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



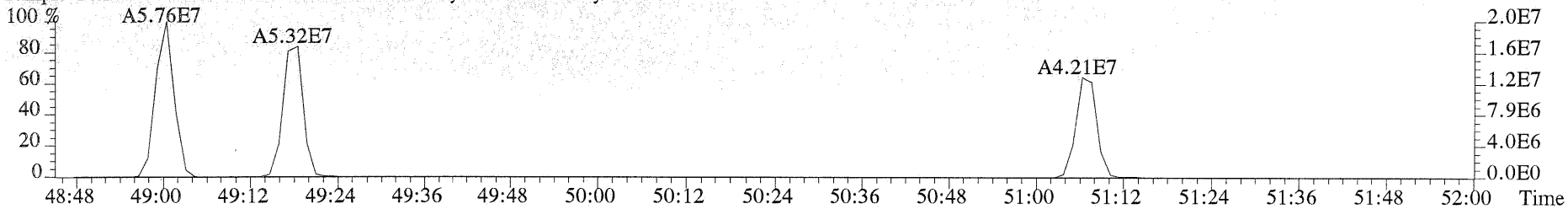
File:02JUL16Z #1-221 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



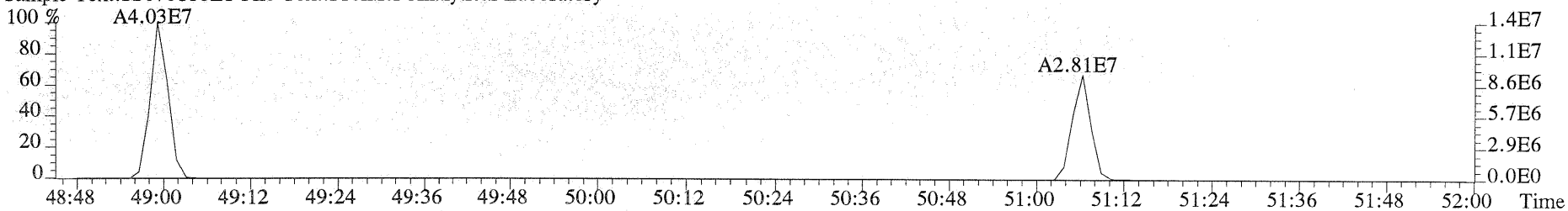
File:02JUL16Z #1-221 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



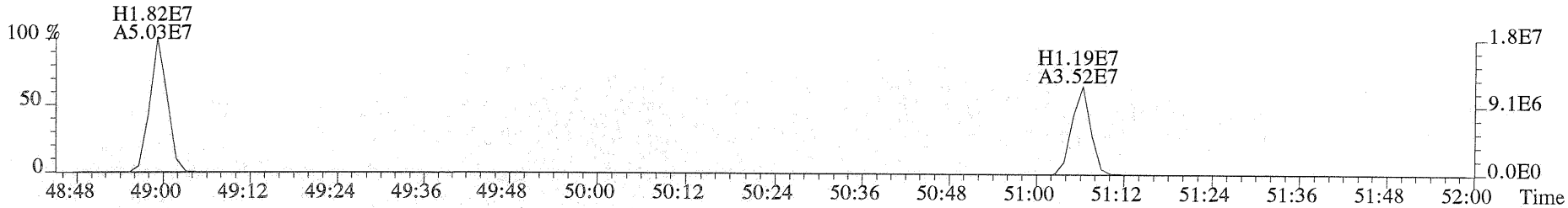
File:02JUL16Z #1-221 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



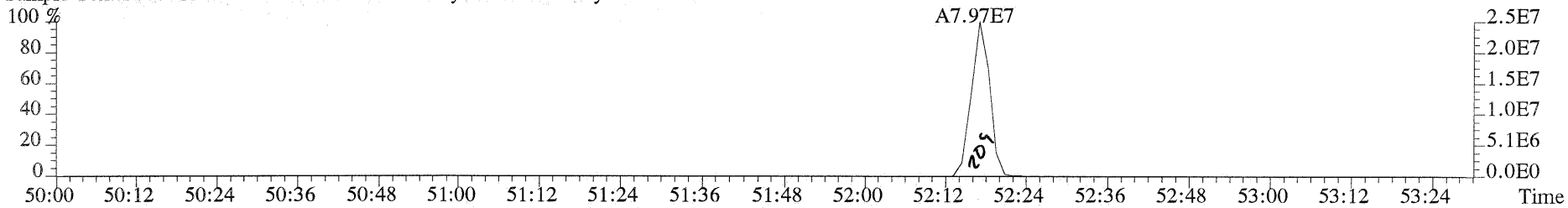
File:02JUL16Z #1-221 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



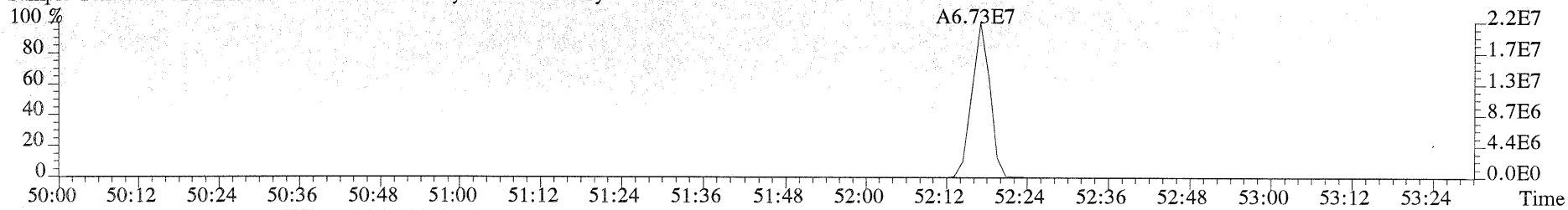
File:02JUL16Z #1-221 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



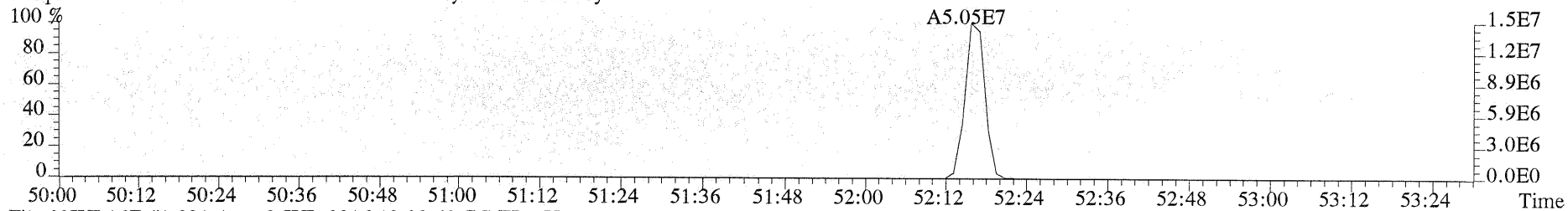
File:02JUL16Z #1-221 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



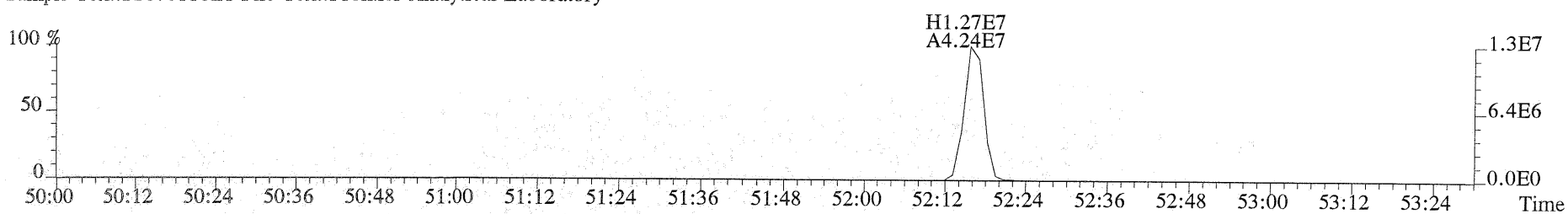
File:02JUL16Z #1-221 Acq: 2-JUL-2016 12:09:48 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS070116Z1 File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 12:09:48 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:SS070116Z1 File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 12:09:48 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:SS070116Z1 File Text:Frontier Analytical Laboratory



USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 2/8/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 02JUL16Z Sam:12 Analysis Date: 2-JUL-16 22:09:22

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.15	2.66-3.60	y	49.1	37.5 - 62.5
PCB-3	M/M+2	3.17	2.66-3.60	y	51.5	37.5 - 62.5
PCB-4	M/M+2	1.55	1.33-1.79	y	51.8	37.5 - 62.5
PCB-15	M/M+2	1.54	1.33-1.79	y	51.5	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	52.9	37.5 - 62.5
PCB-37	M/M+2	1.03	0.88-1.20	y	52.1	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	54.3	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	50.7	37.5 - 62.5
PCB-81	M/M+2	0.80	0.65-0.89	y	52.0	37.5 - 62.5
PCB-104	M+2/M+4	1.60	1.32-1.78	y	50.5	37.5 - 62.5
PCB-105	M+2/M+4	1.57	1.32-1.78	y	51.6	37.5 - 62.5
PCB-114	M+2/M+4	1.56	1.32-1.78	y	51.6	37.5 - 62.5
PCB-118	M+2/M+4	1.54	1.32-1.78	y	49.9	37.5 - 62.5
PCB-123	M+2/M+4	1.52	1.32-1.78	y	49.3	37.5 - 62.5
PCB-126	M+2/M+4	1.53	1.32-1.78	y	49.8	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	49.9	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	51.2	37.5 - 62.5
PCB-157	M+2/M+4	1.28	1.05-1.43	y	53.1	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	52.5	37.5 - 62.5
PCB-169	M+2/M+4	1.23	1.05-1.43	y	50.1	37.5 - 62.5
PCB-188	M+2/M+4	1.04	0.89-1.21	y	45.9	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	46.8	37.5 - 62.5
PCB-202	M+2/M+4	0.89	0.76-1.02	y	45.1	37.5 - 62.5
PCB-205	M+2/M+4	0.86	0.76-1.02	y	45.1	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	49.4	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	51.4	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	49.0	37.5 - 62.5

Analyst: [illegible] Date: 7/5/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 2/8/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 02JUL16Z Sam:12 Analysis Date: 2-JUL-16 22:09:22

	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	3.10	2.66-3.60	y	96.9	50.0 - 145
13C-PCB-3	M/M+2	3.15	2.66-3.60	y	90.0	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	99.9	50.0 - 145
13C-PCB-15	M/M+2	1.67	1.33-1.79	y	90.7	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	81.5	50.0 - 145
13C-PCB-37	M/M+2	1.11	0.88-1.20	y	113	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	98.1	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	111	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	110	50.0 - 145
13C-PCB-104	M+2/M+4	1.61	1.32-1.78	y	85.1	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	112	50.0 - 145
13C-PCB-114	M+2/M+4	1.58	1.32-1.78	y	117	50.0 - 145
13C-PCB-118	M+2/M+4	1.57	1.32-1.78	y	116	50.0 - 145
13C-PCB-123	M+2/M+4	1.57	1.32-1.78	y	116	50.0 - 145
13C-PCB-126	M+2/M+4	1.62	1.32-1.78	y	102	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	87.5	50.0 - 145
13C-PCB-156	M+2/M+4	1.27	1.05-1.43	y	94.7	50.0 - 145
13C-PCB-157	M+2/M+4	1.23	1.05-1.43	y	94.1	50.0 - 145
13C-PCB-167	M+2/M+4	1.25	1.05-1.43	y	95.2	50.0 - 145
13C-PCB-169	M+2/M+4	1.25	1.05-1.43	y	91.5	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	98.4	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	97.5	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	93.5	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	88.4	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	71.5	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	77.6	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	61.4	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.08	0.88-1.20	y	132	65.0 - 135
13C-PCB-111	M+2/M+4	1.59	1.32-1.78	y	101	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	104	75.0 - 125

Analyst: _____ Date: 7/5/16

FAL ID: ST070116Y2 Filename: 02JUL16Z Sam:12 Acquired: 2-JUL-16 22:09:22 ICal: 1668FAL4-2-8-16
Client ID: 1668 CS3 R150603A ConCal: ST070216Z1 EndCal: ST070216Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	9.39e+07	3.15 y	14:22	0.97	49.1		2.50	-	-	*	-
13C-PCB-1	1.97e+08	3.10 y	14:21	1.34	96.9		2.50				96.9
PCB-3	8.75e+07	3.17 y	16:49	0.99	51.5		2.50	-	-	*	-
13C-PCB-3	1.71e+08	3.15 y	16:48	1.26	90.0		2.50				90.0
PCB-4	5.63e+07	1.55 y	18:02	1.08	51.8		2.50	-	-	*	-
13C-PCB-4	1.00e+08	1.60 y	18:01	0.66	99.9		2.50				99.9
PCB-15	7.45e+07	1.54 y	23:35	1.06	51.5		2.50	-	-	*	-
13C-PCB-15	1.37e+08	1.67 y	23:33	1.00	90.7		2.50				90.7
PCB-19	4.97e+07	1.04 y	21:55	1.00	52.9		2.50	-	-	*	-
13C-PCB-19	9.39e+07	1.07 y	21:54	0.76	81.5		2.50				81.5
13C-PCB-9	1.51e+08	1.62 y	19:42	-	89.9		2.50				
PCB-37	6.18e+07	1.03 y	30:14	1.12	52.1		2.50	-	-	*	-
13C-PCB-37	1.06e+08	1.11 y	30:13	1.08	113		2.50				113
PCB-54	5.52e+07	0.79 y	25:27	0.97	54.3		2.50	-	-	*	-
13C-PCB-54	1.05e+08	0.80 y	25:25	1.23	98.1		2.50				98.1
PCB-104	4.49e+07	1.60 y	29:53	1.10	50.5		2.50	-	-	*	-
13C-PCB-104	8.09e+07	1.61 y	29:51	1.09	85.1		2.50				85.1
13C-PCB-28	1.31e+08	1.08 y	26:30	1.14	132		2.50				132
13C-PCB-52	8.71e+07	0.79 y	28:46	-	80.4		2.50				
PCB-81	4.84e+07	0.80 y	35:59	1.15	52.0		2.50	-	-	*	-
13C-PCB-81	8.09e+07	0.80 y	35:58	1.01	110		2.50				110
PCB-77	4.69e+07	0.80 y	36:33	1.13	50.7		2.50	-	-	*	-
13C-PCB-77	8.18e+07	0.81 y	36:32	1.02	111		2.50				111
PCB-155	4.43e+07	1.27 y	34:01	1.09	49.9		2.50	-	-	*	-
13C-PCB-155	8.15e+07	1.29 y	34:00	1.29	87.5		2.50				87.5
13C-PCB-111	8.94e+07	1.59 y	36:05	1.22	101		2.50				101
13C-PCB-101	7.24e+07	1.60 y	34:27	-	78.9		2.50				
PCB-123	4.07e+07	1.52 y	38:10	1.07	49.3		2.50	-	-	*	-
13C-PCB-123	7.74e+07	1.57 y	38:08	1.07	116		2.50				116
PCB-118	4.58e+07	1.54 y	38:20	1.07	49.9		2.50	-	-	*	-
13C-PCB-118	8.58e+07	1.57 y	38:18	1.19	116		2.50				116
PCB-114	4.43e+07	1.56 y	38:58	1.06	51.6		2.50	-	-	*	-
13C-PCB-114	8.11e+07	1.58 y	38:56	1.11	117		2.50				117
PCB-105	4.30e+07	1.57 y	39:45	1.07	51.6		2.50	-	-	*	-
13C-PCB-105	7.80e+07	1.61 y	39:45	1.11	112		2.50				112
PCB-126	3.48e+07	1.53 y	41:54	1.08	49.8		2.50	-	-	*	-
13C-PCB-126	6.49e+07	1.62 y	41:52	1.02	102		2.50				102
PCB-167	3.65e+07	1.25 y	43:14	0.97	52.5		2.50	-	-	*	-
13C-PCB-167	7.20e+07	1.25 y	43:13	1.21	95.2		2.50				95.2
PCB-156	3.43e+07	1.25 y	44:29	1.01	51.2		2.50	-	-	*	-
13C-PCB-156	6.61e+07	1.27 y	44:27	1.12	94.7		2.50				94.7
PCB-157	3.53e+07	1.28 y	44:43	0.94	53.1		2.50	-	-	*	-
13C-PCB-157	7.03e+07	1.23 y	44:42	1.20	94.1		2.50				94.1
PCB-169	2.72e+07	1.23 y	46:37	0.97	50.1		2.50	-	-	*	-
13C-PCB-169	5.59e+07	1.25 y	46:37	0.98	91.5		2.50				91.5
PCB-188	4.46e+07	1.04 y	39:31	1.13	45.9		2.50	-	-	*	-
13C-PCB-188	8.63e+07	1.06 y	39:29	1.41	98.4		2.50				98.4
PCB-189	2.98e+07	1.06 y	48:17	1.17	46.8		2.50	-	-	*	-
13C-PCB-189	5.43e+07	1.06 y	48:16	0.89	97.5		2.50				97.5
PCB-202	3.10e+07	0.89 y	44:38	1.12	45.1		2.50	-	-	*	-
13C-PCB-202	6.17e+07	0.90 y	44:37	1.06	93.5		2.50				93.5
13C-PCB-178	5.36e+07	1.06 y	42:09	0.83	104		2.50				104
13C-PCB-138	6.23e+07	1.26 y	41:21	-	83.4		2.50				

FAL ID: ST070116Y2 Filename: 02JUL16Z Sam:12 Acquired: 2-JUL-16 22:09:22 ICal: 1668FAL4-2-8-16
Client ID: 1668 CS3 R150603A ConCal: ST070216Z1 EndCal: ST070216Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	2.86e+07	0.86	y	49:57	1.13	45.1	2.50	-	-	*	-
13C-PCB-205	5.61e+07	0.90	y	49:56	1.47	88.4	2.50				88.4
PCB-208	3.14e+07	1.36	y	49:00	0.91	51.4	2.50	-	-	*	-
13C-PCB-208	6.72e+07	0.80	y	48:59	2.00	77.6	2.50				77.6
PCB-206	2.05e+07	1.36	y	51:06	0.96	49.4	2.50	-	-	*	-
13C-PCB-206	4.33e+07	0.79	y	51:06	1.40	71.5	2.50				71.5
PCB-209	3.09e+07	1.19	y	52:17	1.13	49.0	2.50	-	-	*	-
13C-PCB-209	5.59e+07	1.19	y	52:16	2.10	61.4	2.50				61.4
13C-PCB-194	4.34e+07	0.92	y	49:40	-	139	2.50				

Analyst: [illegible] Date: 7/5/16

Frontier Analytical Laboratory - Acquisition Log

Run Name:02JUL16Z Instrument: FAL4 GC: DB1 Experiment:1668PCB

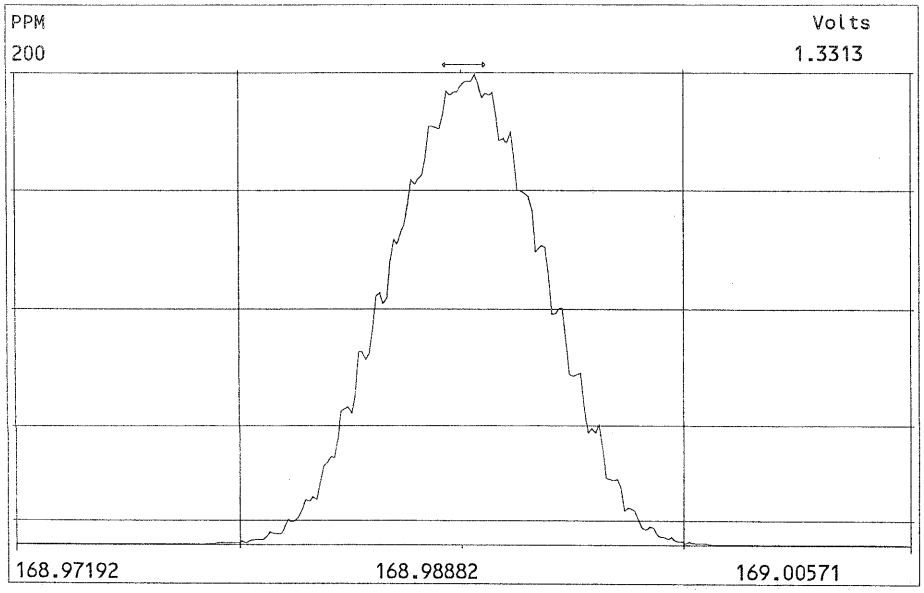
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
02JUL16Z	1	ST070116Z1	1668 CS3 R150603A	2-JUL-16 11:09:53	ST070216Z1	ST070216Z2	BS
02JUL16Z	2	SS070116Z1	Daily 209 151201A	2-JUL-16 12:09:48	ST070216Z1	ST070216Z2	BS
02JUL16Z	3	03753-001-0001-OPR	OPR	2-JUL-16 13:09:45	ST070216Z1	ST070216Z2	BS
02JUL16Z	4	03753-001-0001-MB	Method Blank	2-JUL-16 14:09:44	ST070216Z1	ST070216Z2	BS
02JUL16Z	5	09967-004-0001-SA	LDW-CS-C4-S010-PW-MB	2-JUL-16 15:09:42	ST070216Z1	ST070216Z2	BS
02JUL16Z	6	09967-005-0001-SA	LDW-CS-C5-S010-PW-MB	2-JUL-16 16:09:40	ST070216Z1	ST070216Z2	BS
02JUL16Z	7	09967-001-0001-SA	LDW-CS-C1-S010-PW-TB	2-JUL-16 17:09:38	ST070216Z1	ST070216Z2	BS
02JUL16Z	8	09967-002-0001-SA	LDW-CS-C2-S010-PW-TB	2-JUL-16 18:09:37	ST070216Z1	ST070216Z2	BS
02JUL16Z	9	09967-003-0001-SA	LDW-CS-C3-S010-PW-TB	2-JUL-16 19:09:34	ST070216Z1	ST070216Z2	BS
02JUL16Z	10	QC070116Z1	SQC1	2-JUL-16 20:09:31	ST070216Z1	ST070216Z2	BS
02JUL16Z	11	QC070116Z2	SQC2	2-JUL-16 21:09:28	ST070216Z1	ST070216Z2	BS
02JUL16Z	12	ST070116Y2	1668 CS3 R150603A	2-JUL-16 22:09:22	ST070216Z1	ST070216Z2	BS

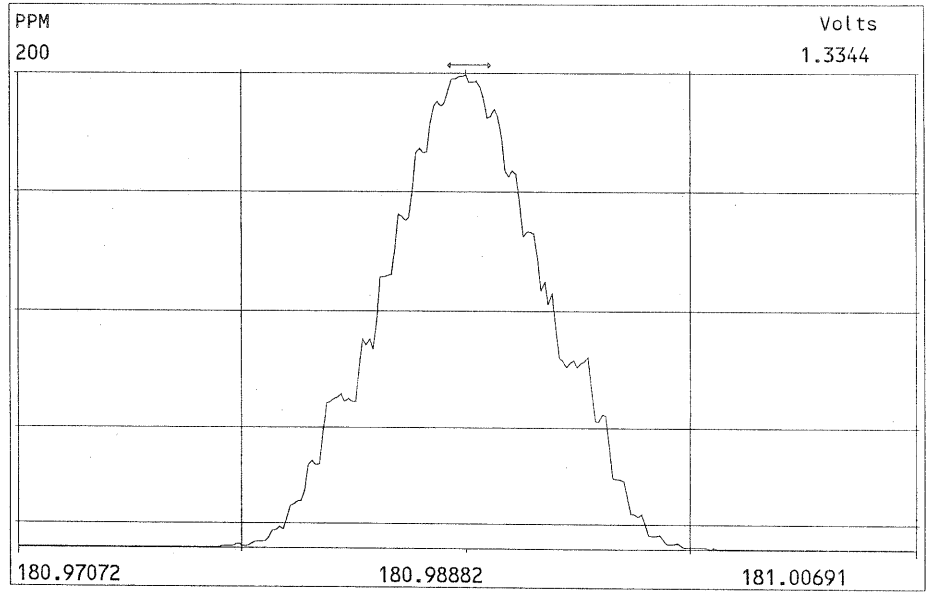
8/5/16

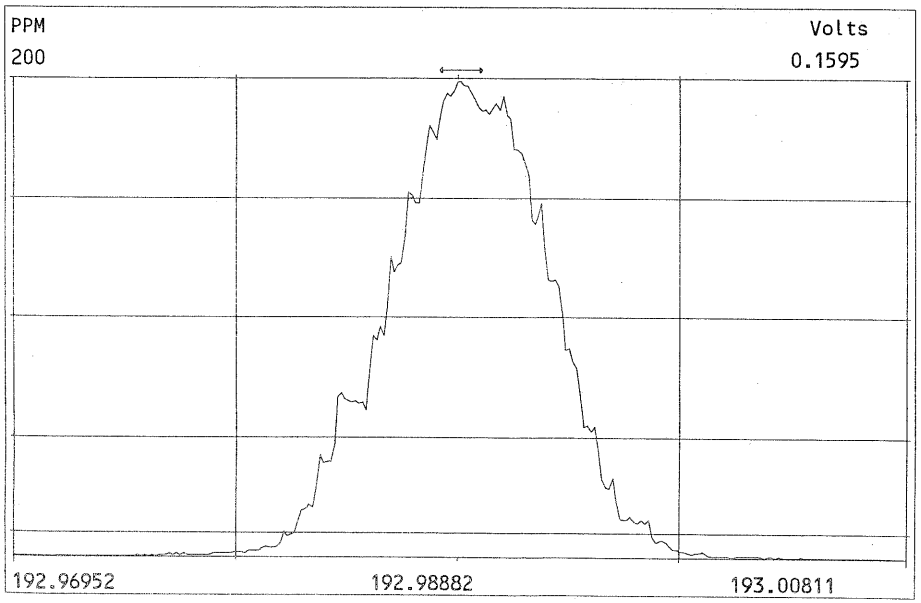
Data Backed Up:_____

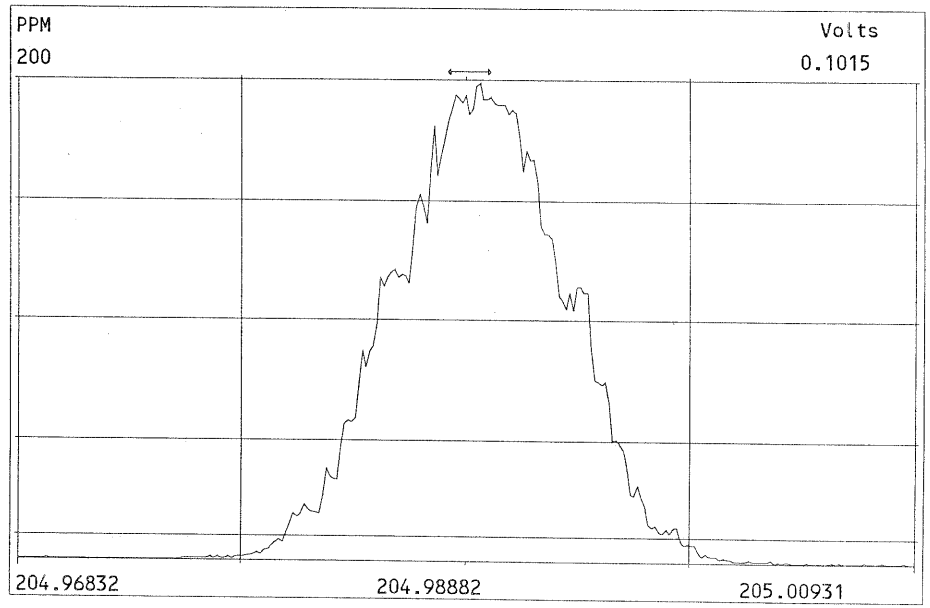
Date:_____

Peak Locate Examination: 2-JUL-2016:11:05 File:02JUL16Z
Experiment:1668PCB Function:1 Reference:PFK









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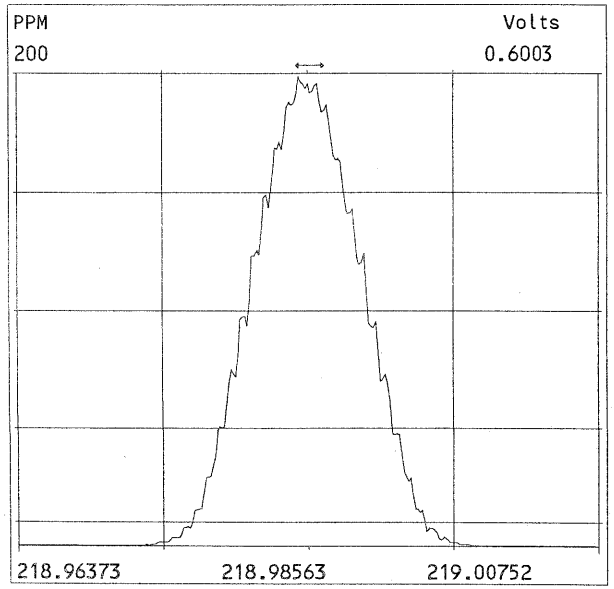
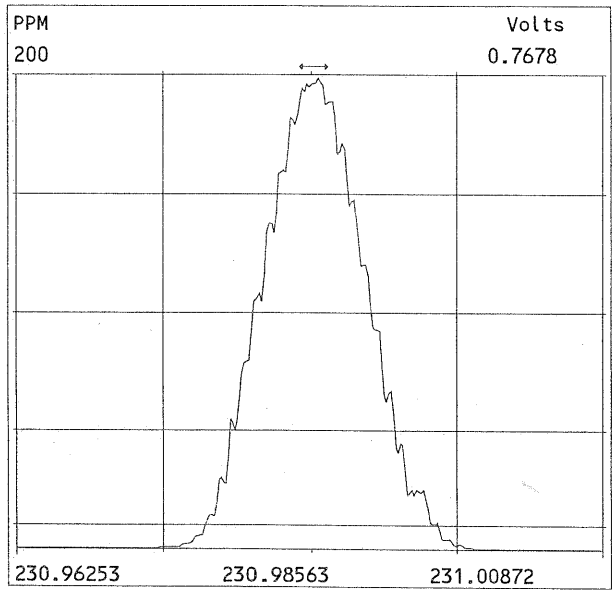
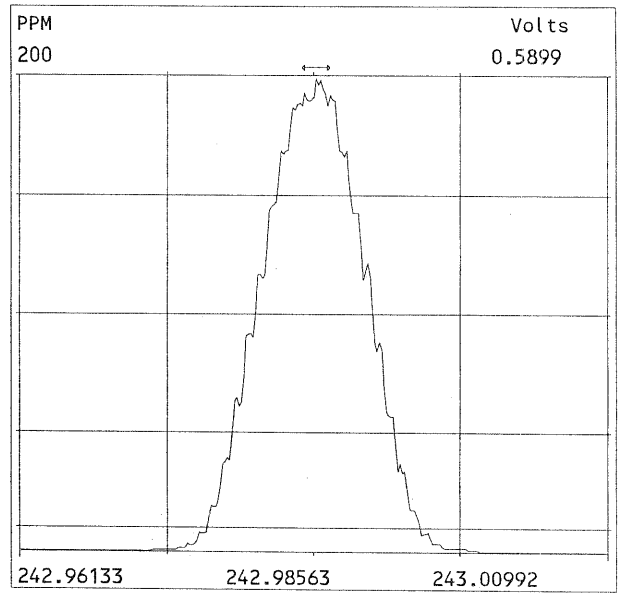
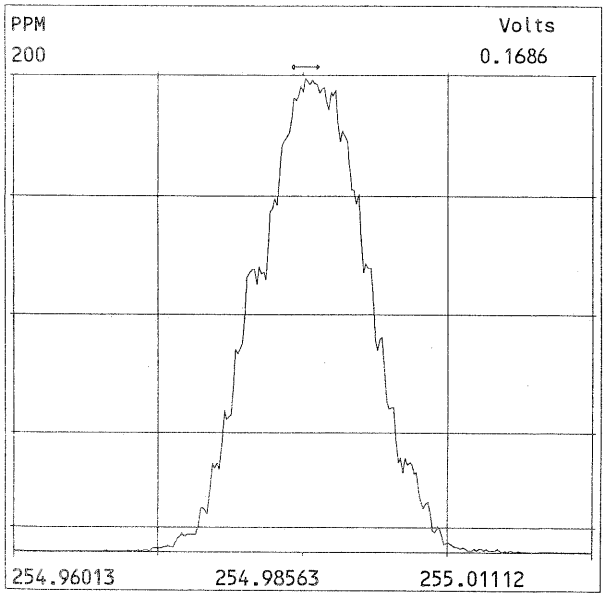
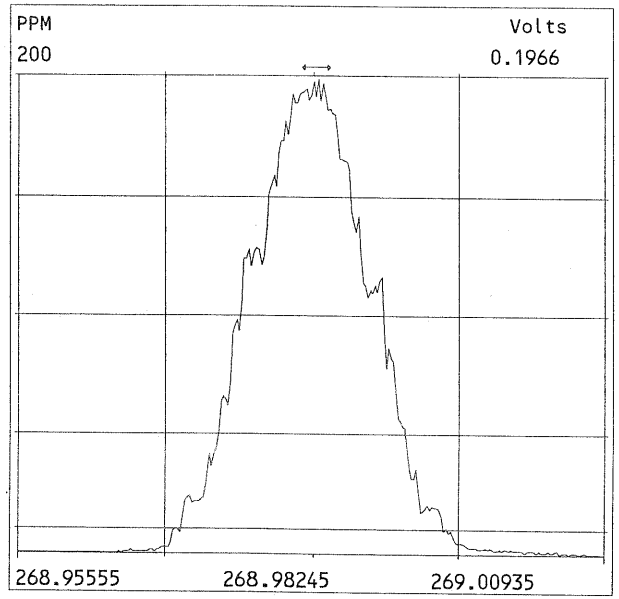
Experiment:1668PCB Function:2 Reference:PFK

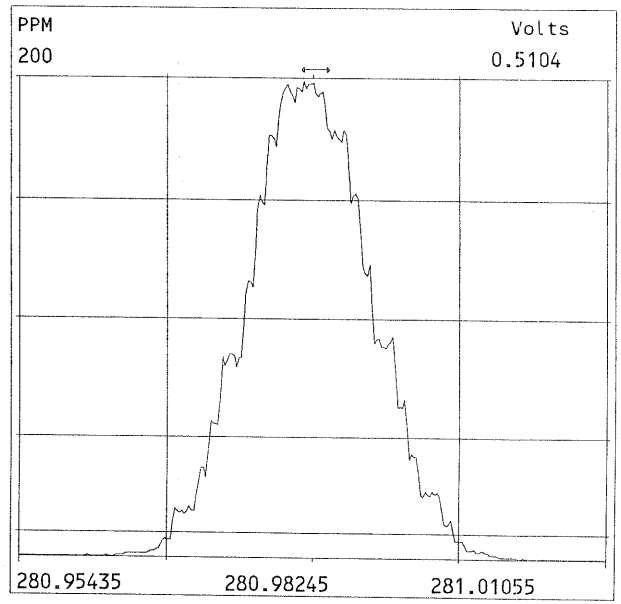




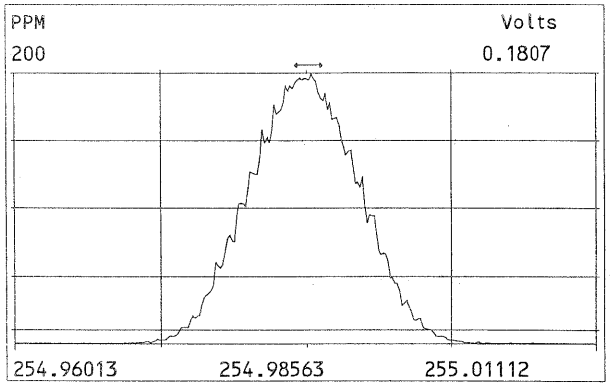


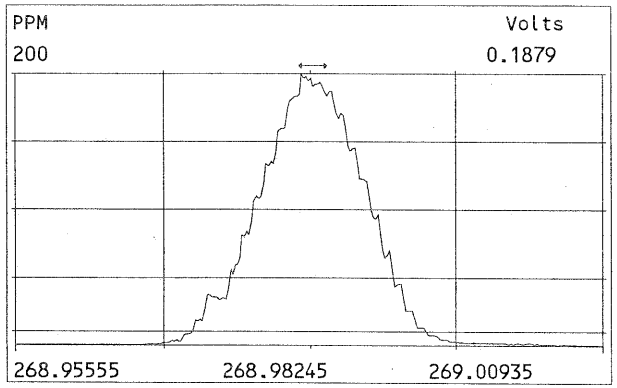


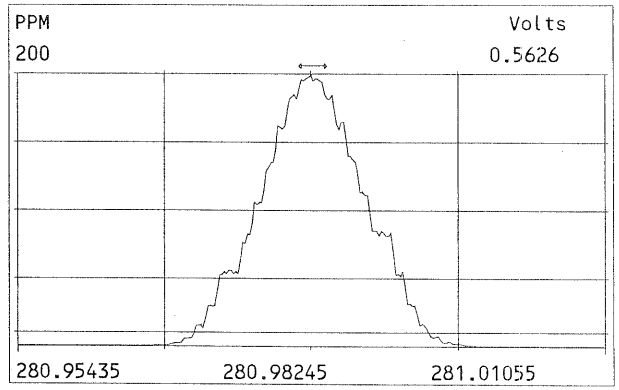


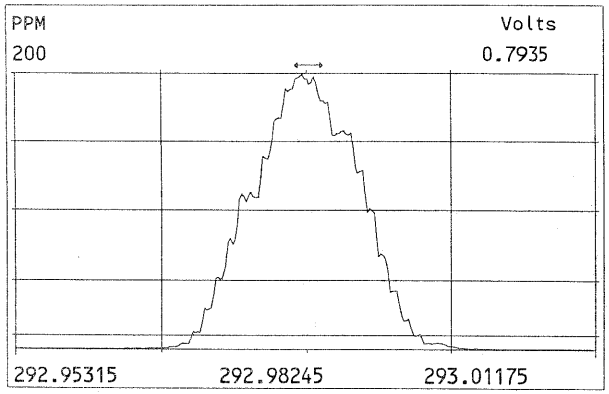


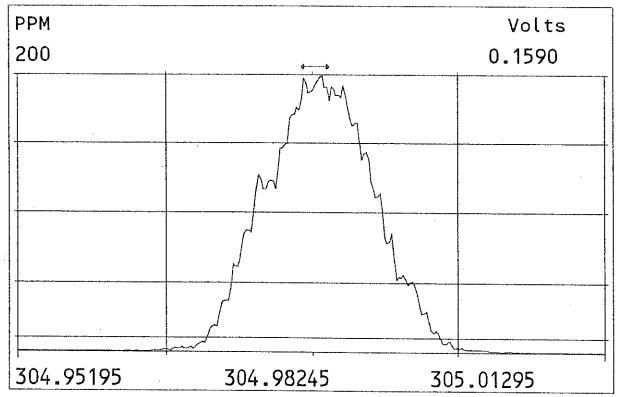
Peak Locate Examination: 2-JUL-2016:11:07 File:02JUL16Z
Experiment:1668PCB Function:3 Reference:PFK

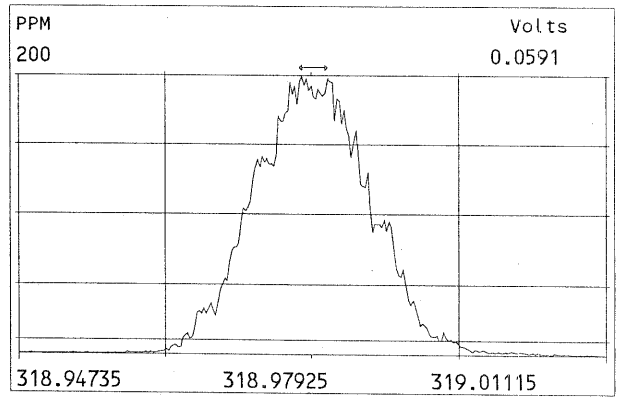


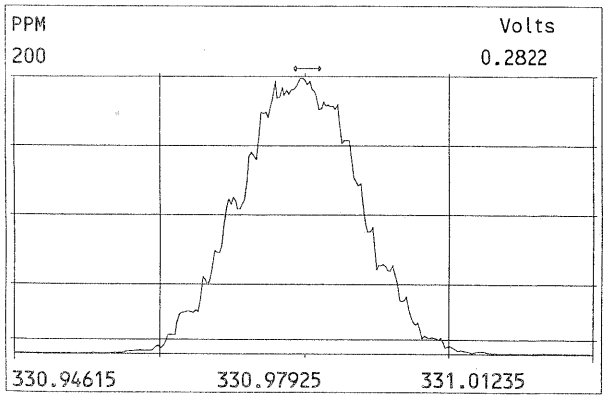


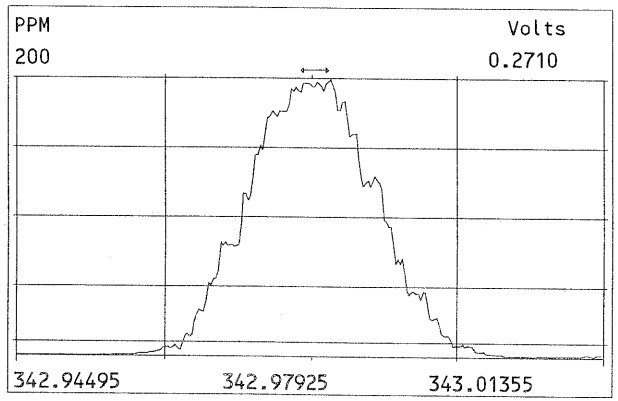




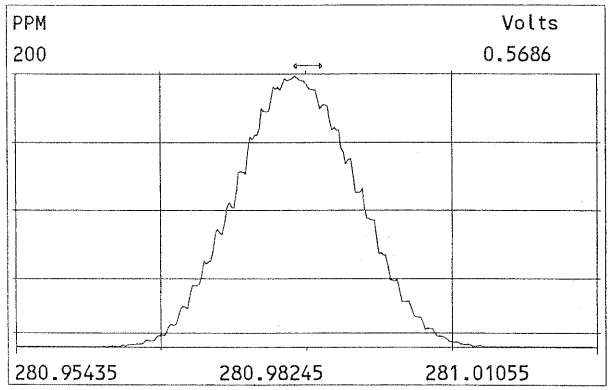


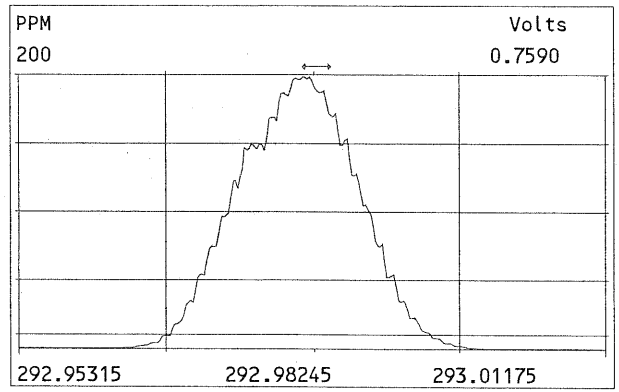


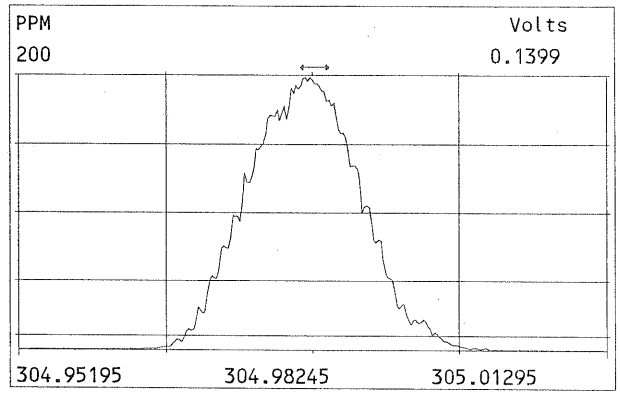


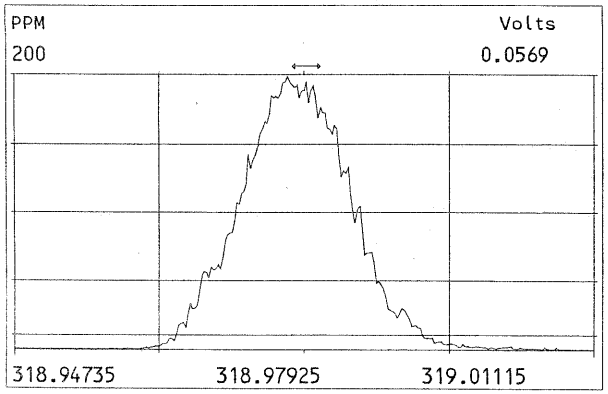


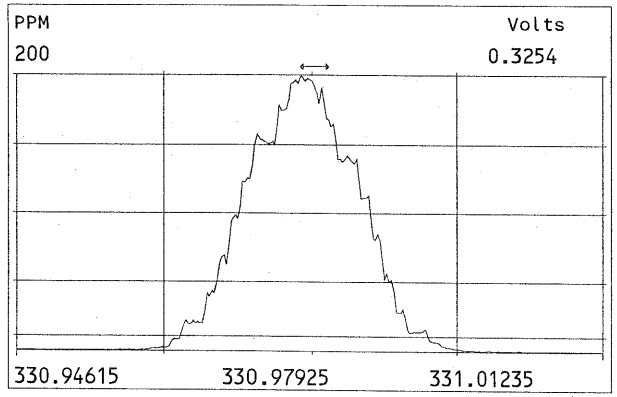
Peak Locate Examination: 2-JUL-2016:11:07 File:02JUL16Z
Experiment:1668PCB Function:4 Reference:PFK

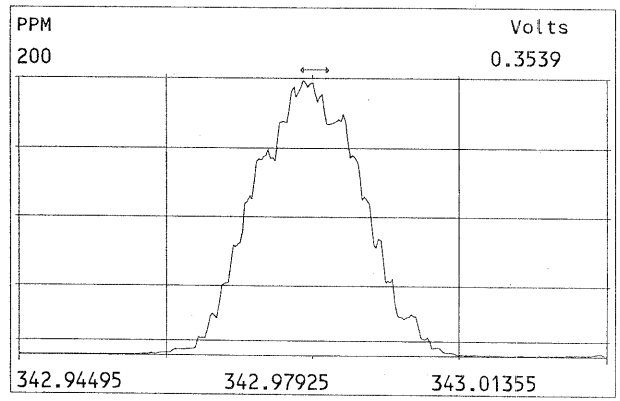


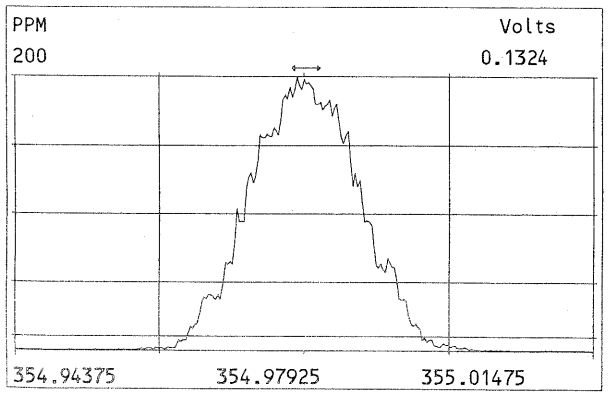


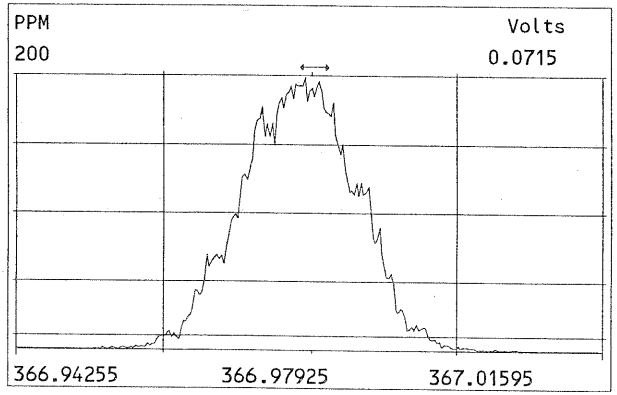


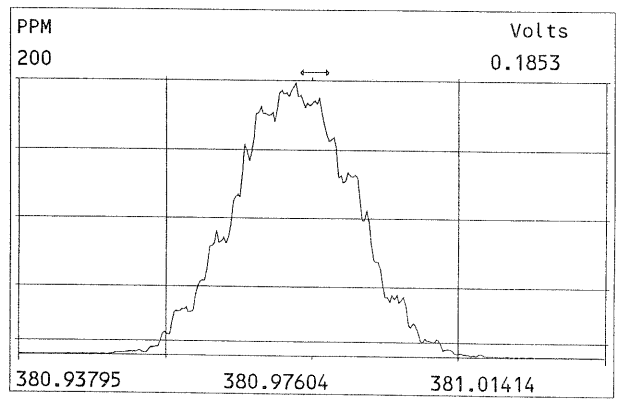




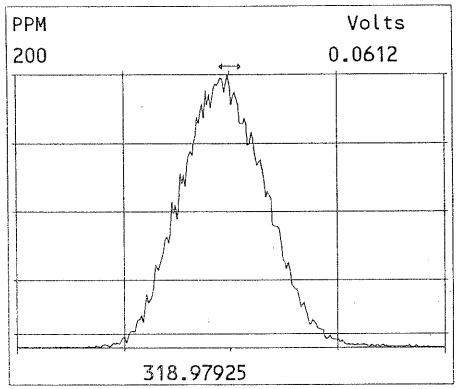


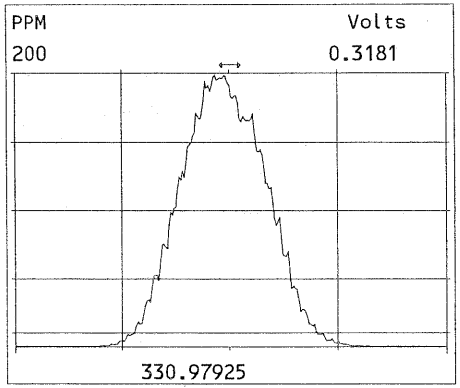


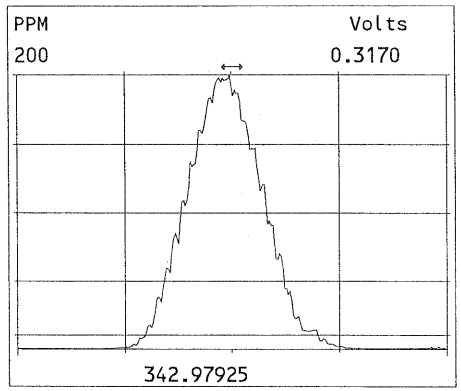


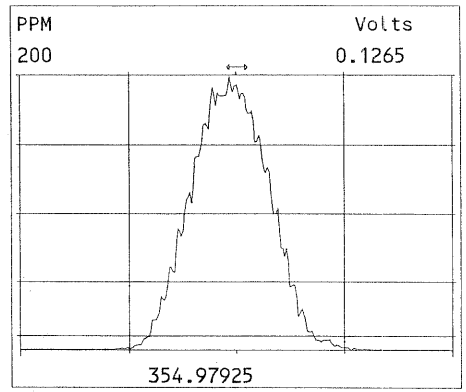


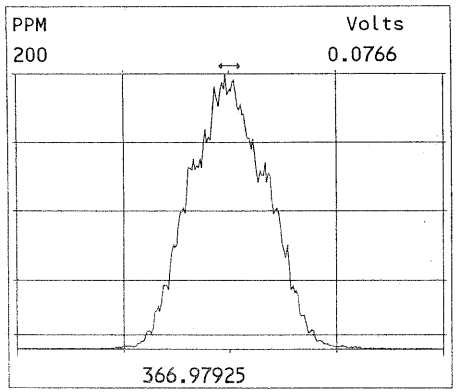
Peak Locate Examination: 2-JUL-2016:11:08 File:02JUL16Z
Experiment:1668PCB Function:5 Reference:PFK

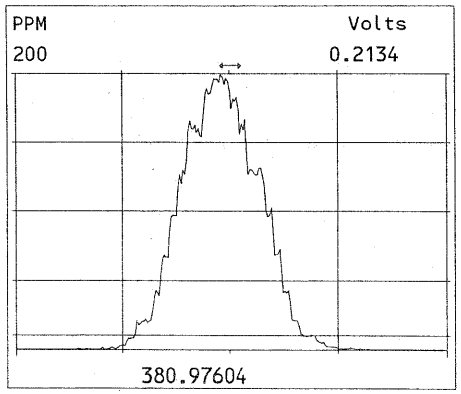


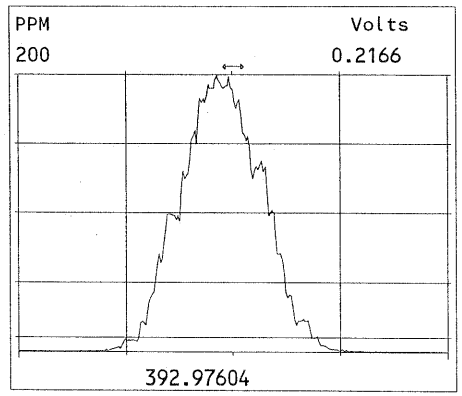


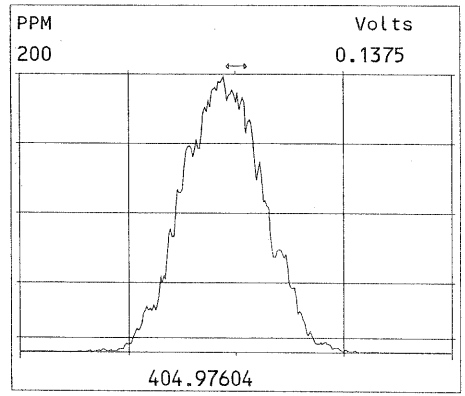


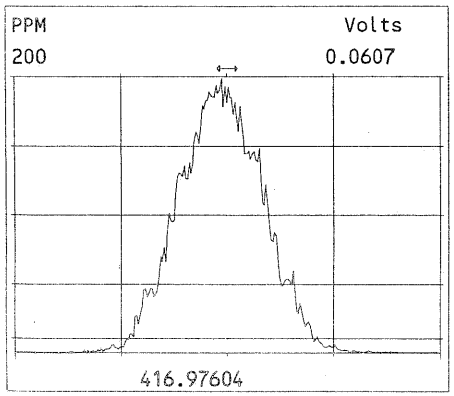


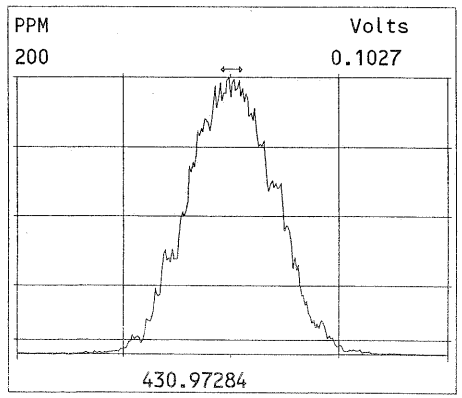


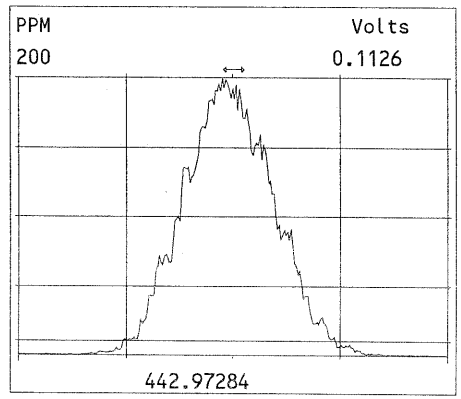




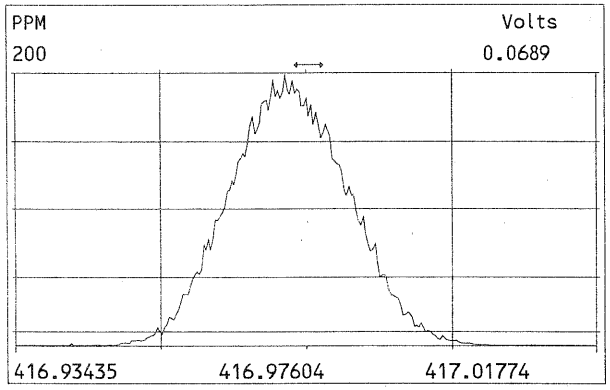


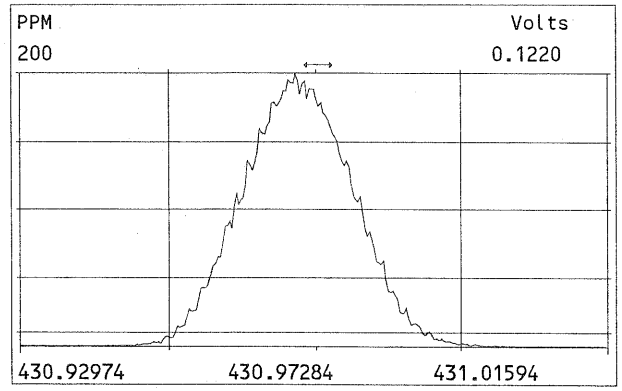


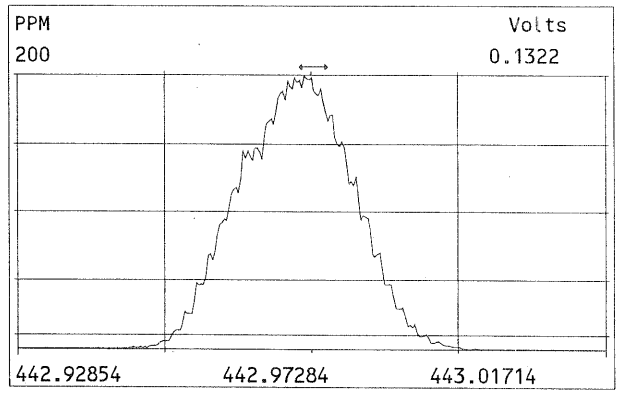


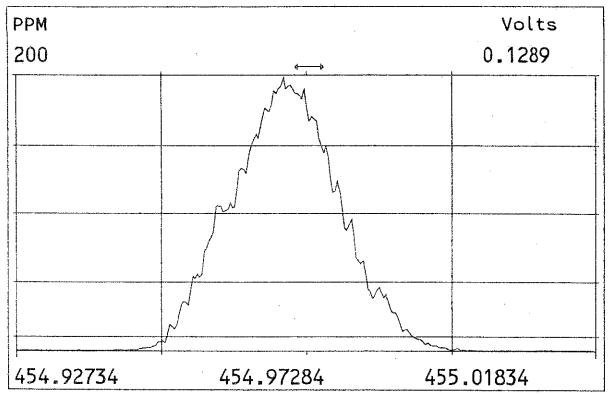


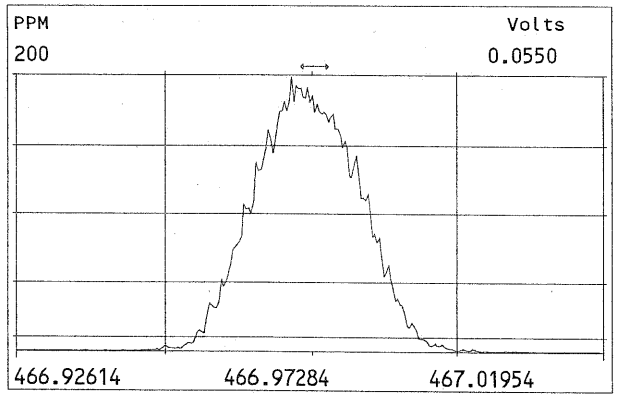
Peak Locate Examination: 2-JUL-2016:11:09 File:02JUL16Z
Experiment:1668PCB Function:6 Reference:PFK

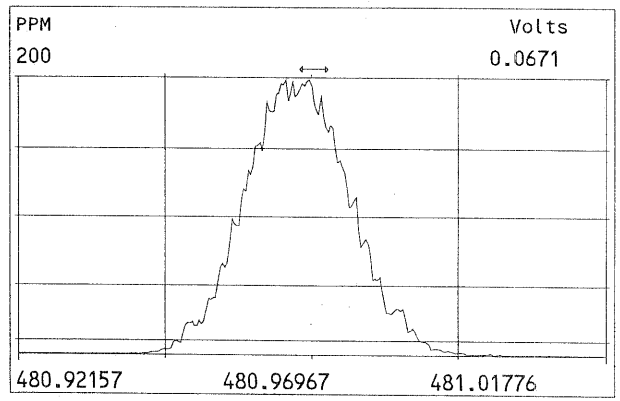


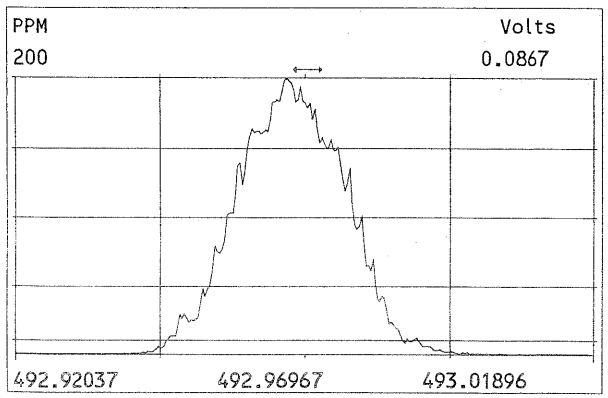


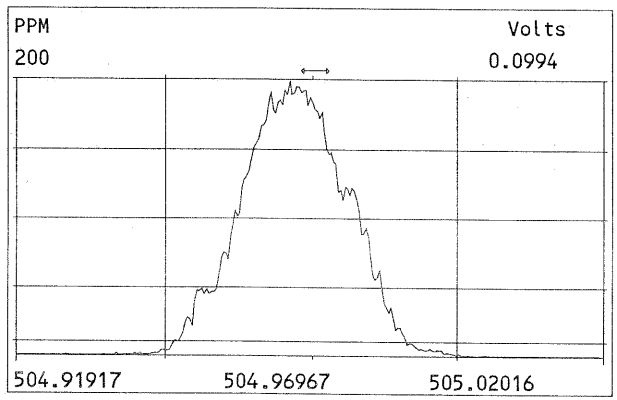


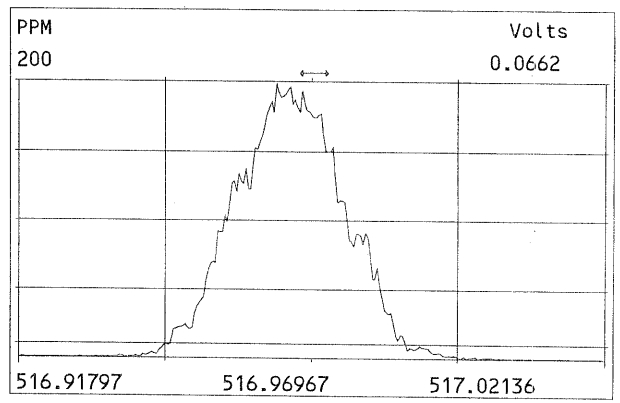




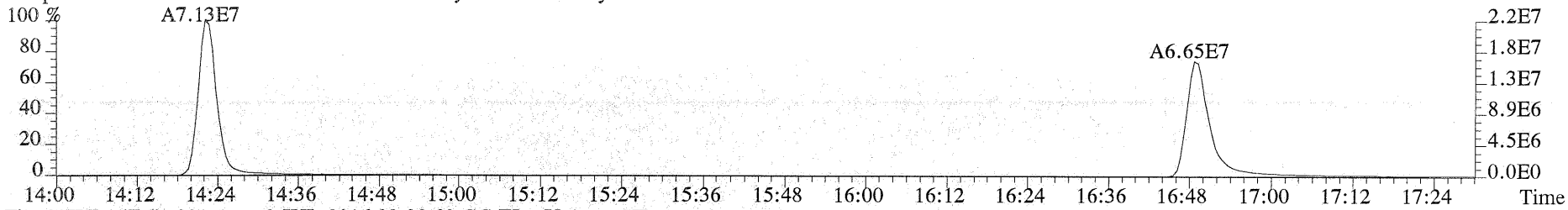








File:02JUL16Z #1-901 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-901 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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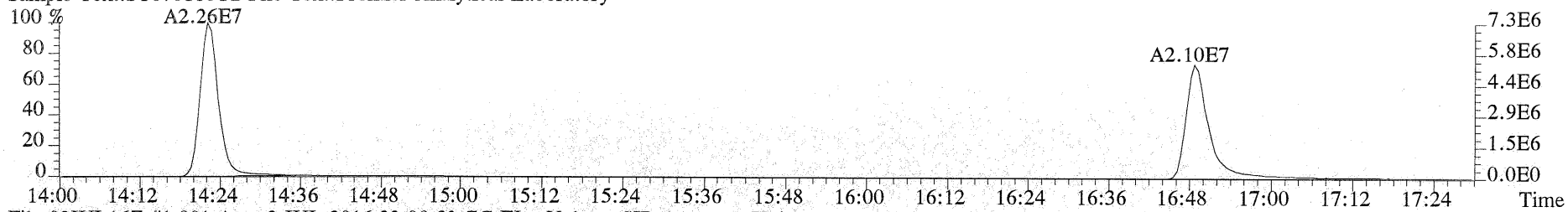

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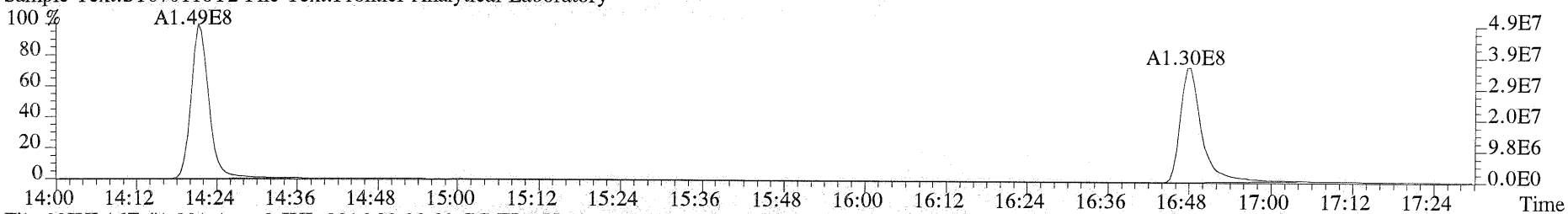
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



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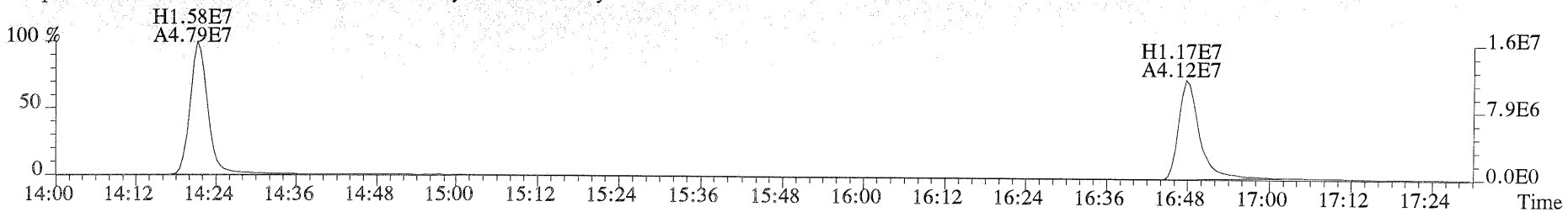
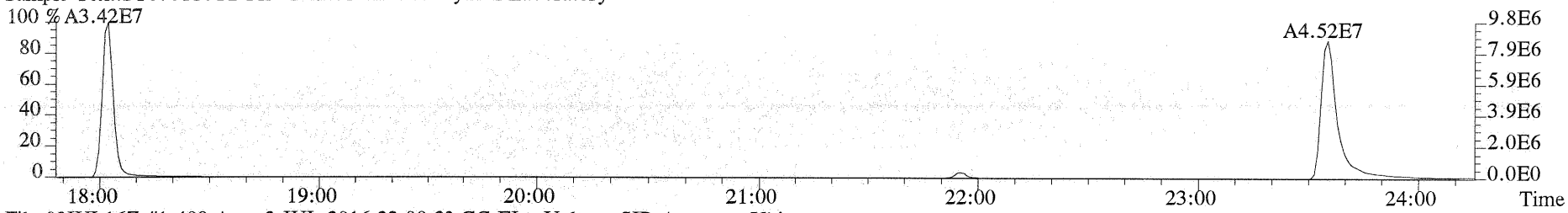
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-498 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



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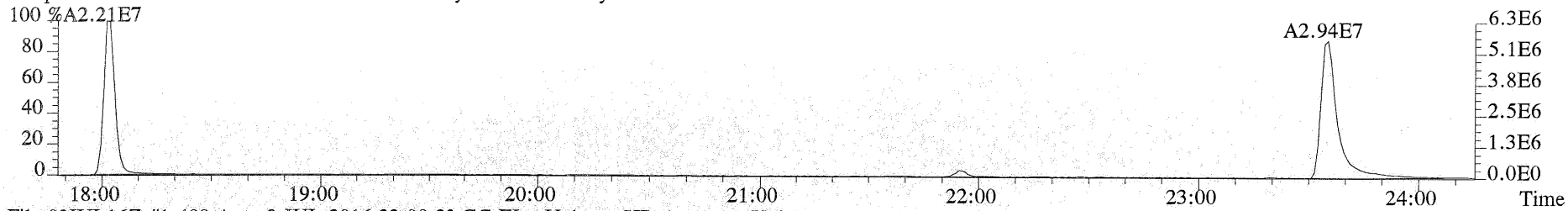
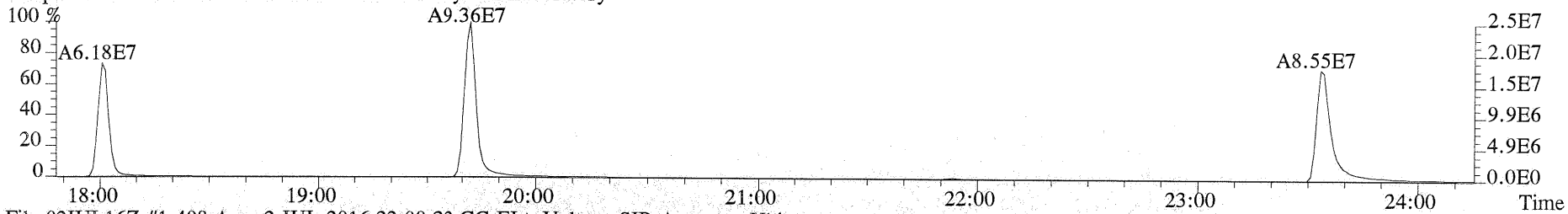
223.9974 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-498 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



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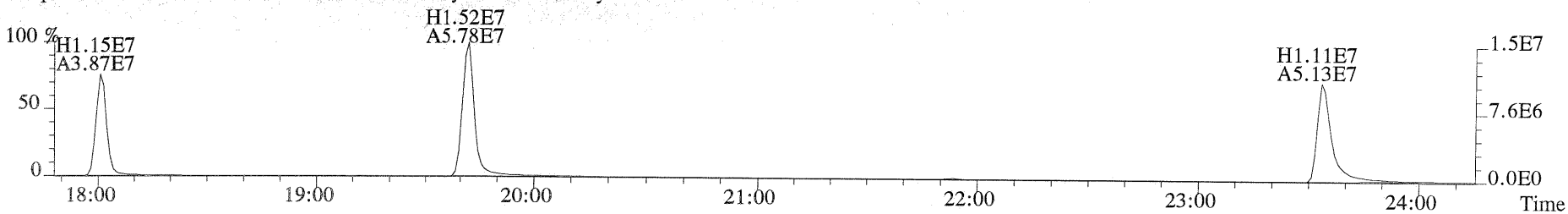
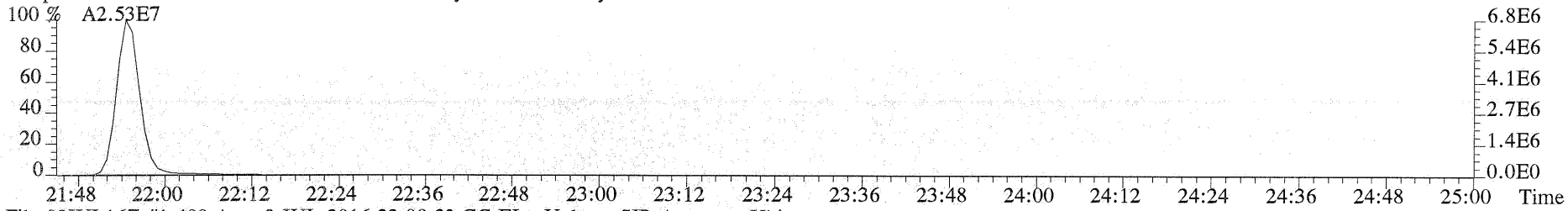
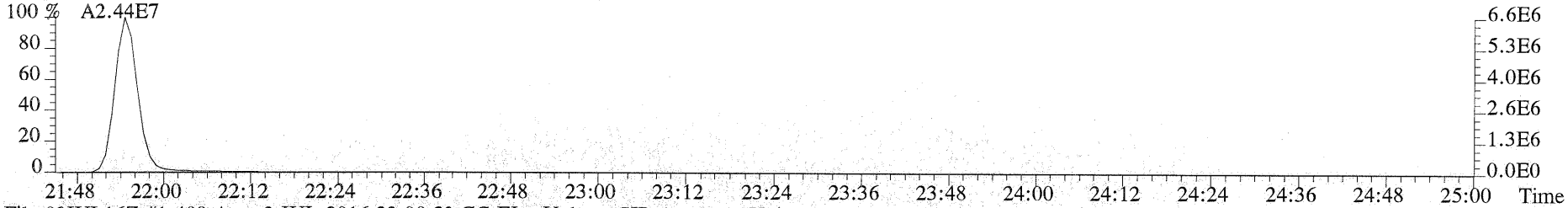
236.0376 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



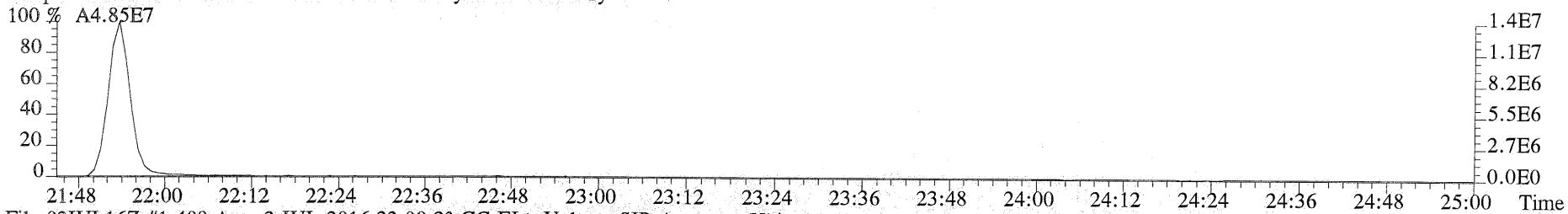
File:02JUL16Z #1-498 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-498 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-498 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



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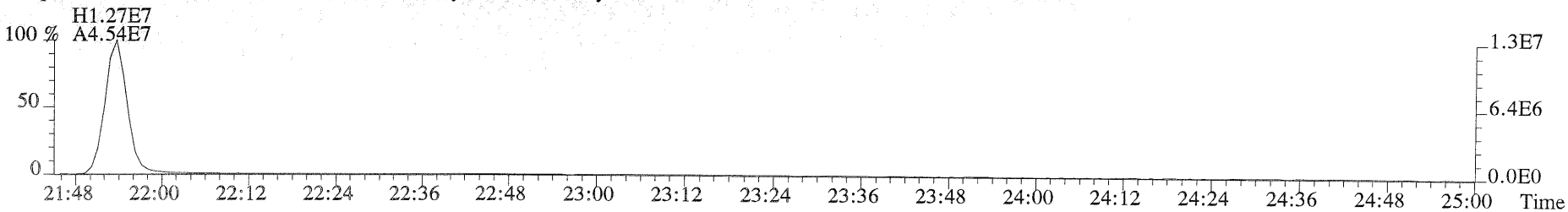
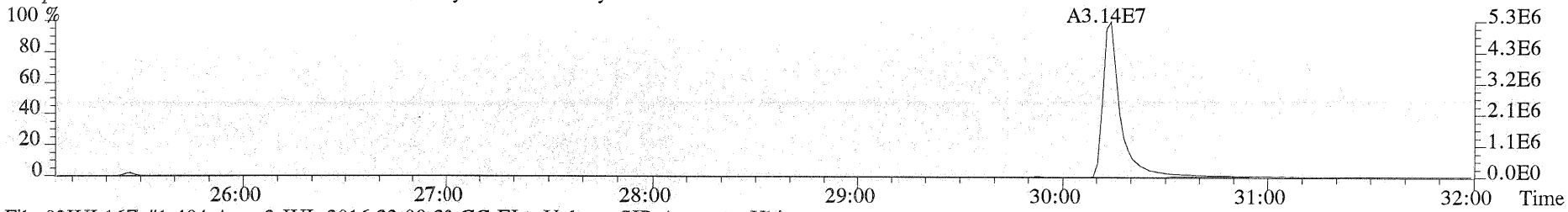
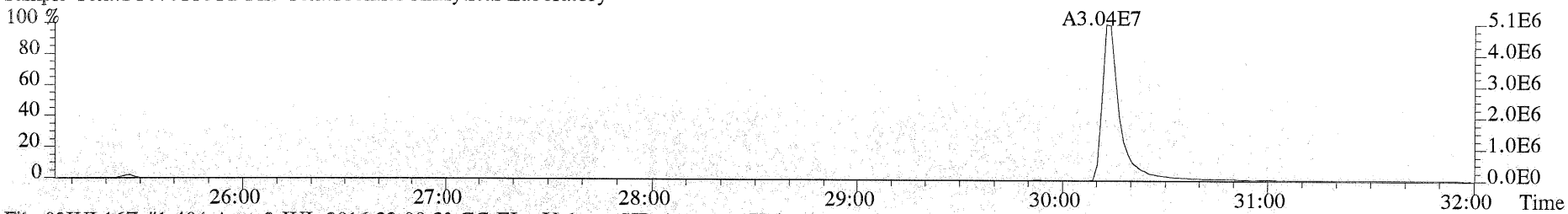
269.9986 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



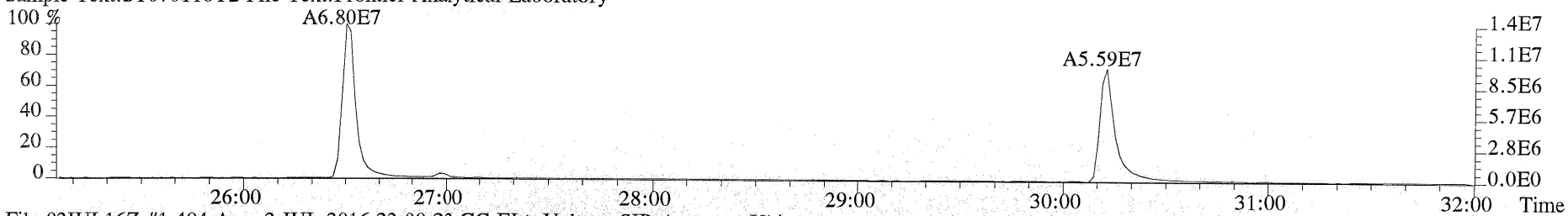
File:02JUL16Z #1-404 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



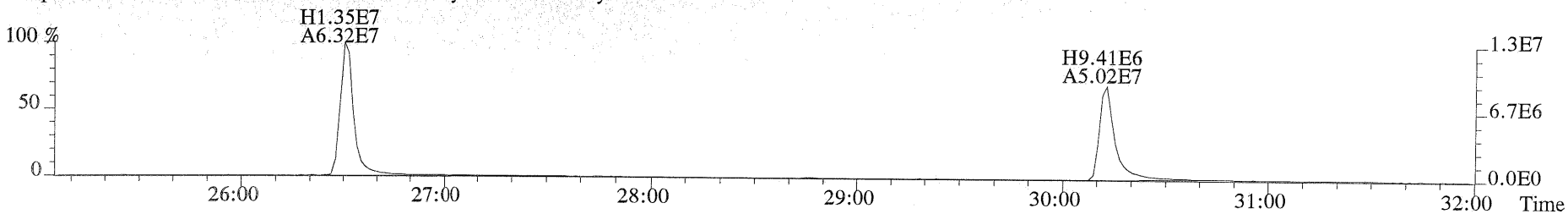
File:02JUL16Z #1-404 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



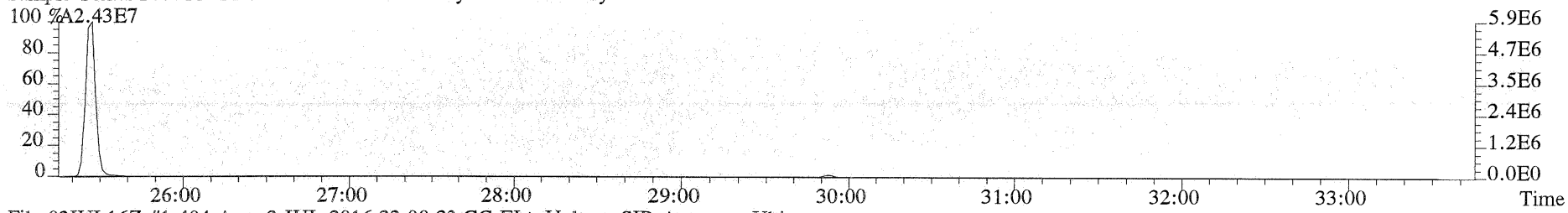
File:02JUL16Z #1-404 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-404 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-404 Acq: 2-JUL-2016 22:09:22 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:ST070116Y2 File Text:Frontier Analytical Laboratory



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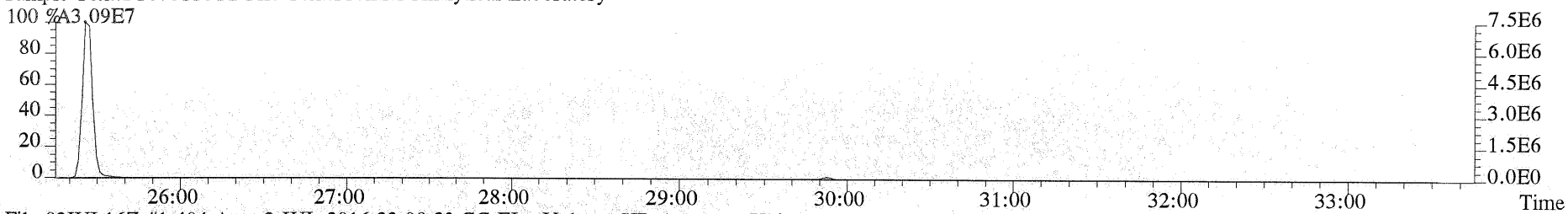
291.9194 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



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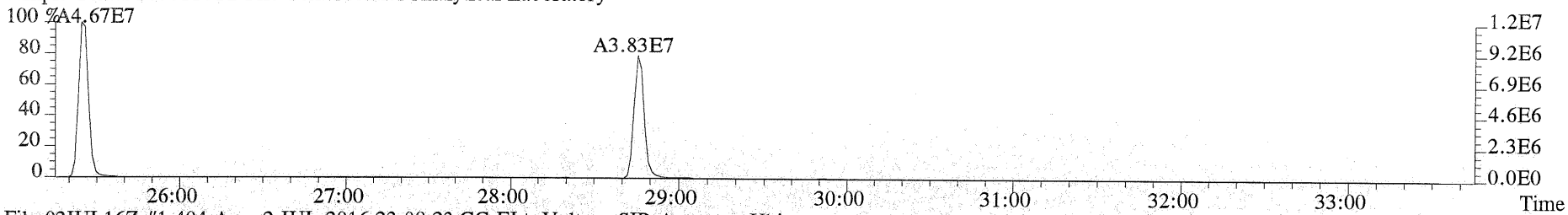
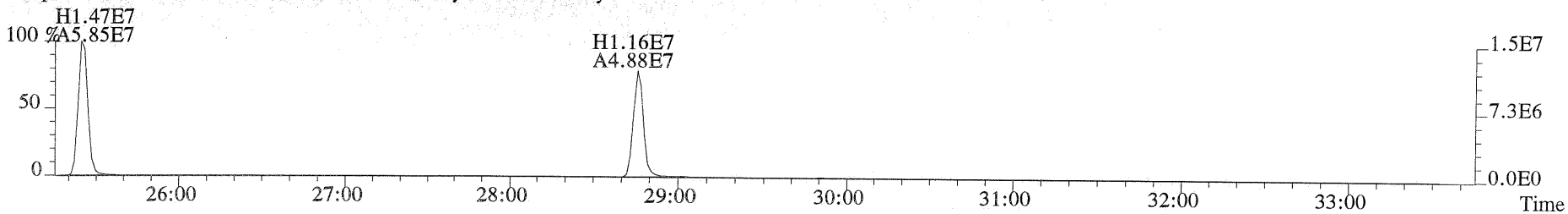
301.9626 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-404 Acq: 2-JUL-2016 22:09:22 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:ST070116Y2 File Text:Frontier Analytical Laboratory



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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
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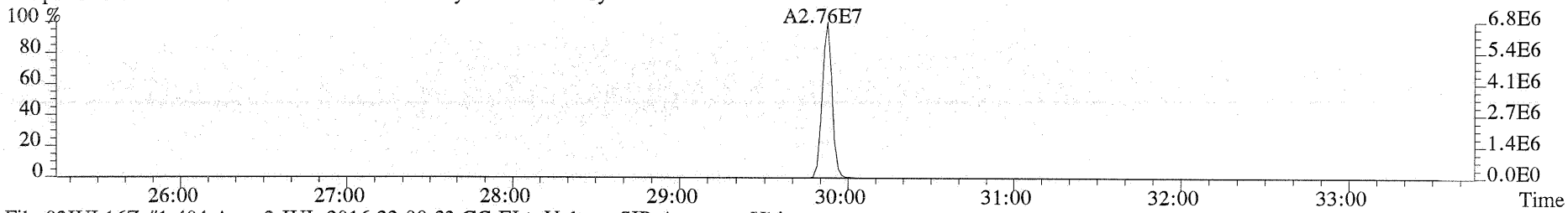

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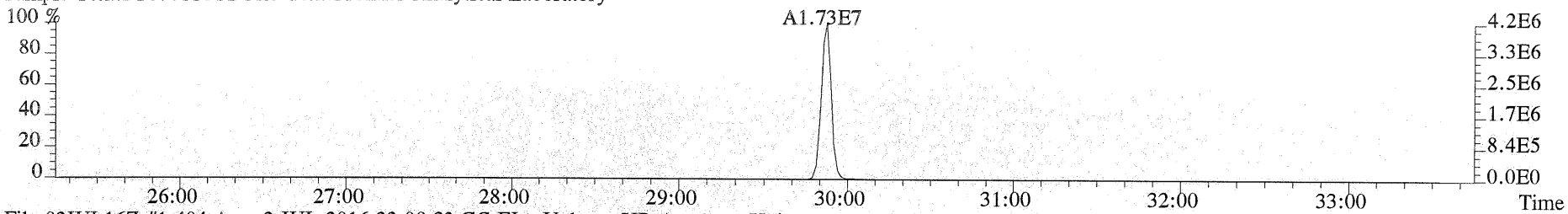
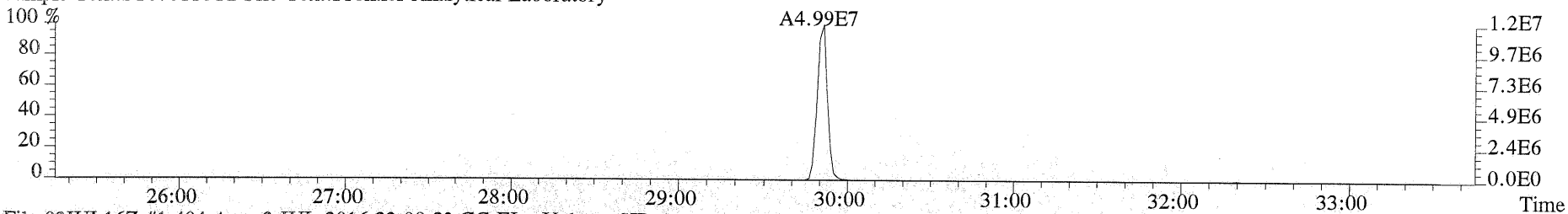
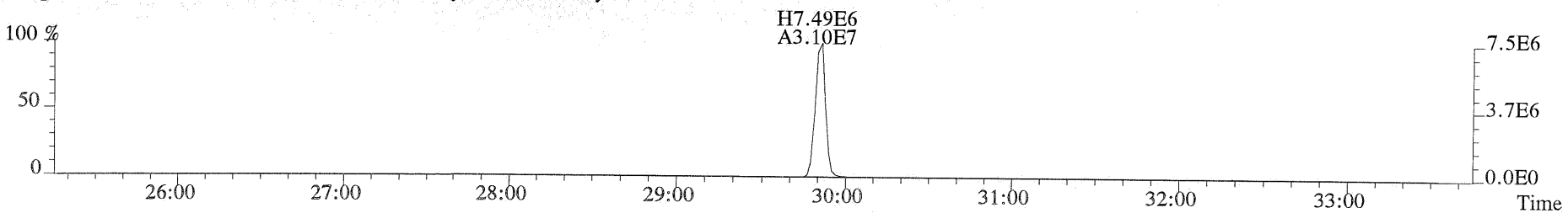
327.8775 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



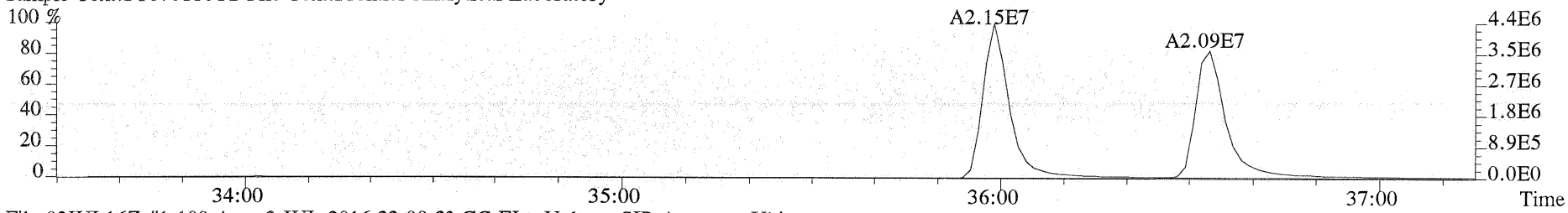
File:02JUL16Z #1-404 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



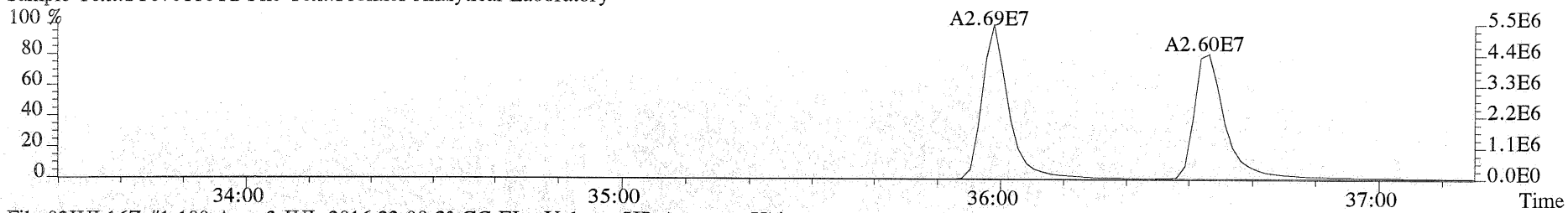
File:02JUL16Z #1-404 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-180 Acq: 2-JUL-2016 22:09:22 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:ST070116Y2 File Text:Frontier Analytical Laboratory

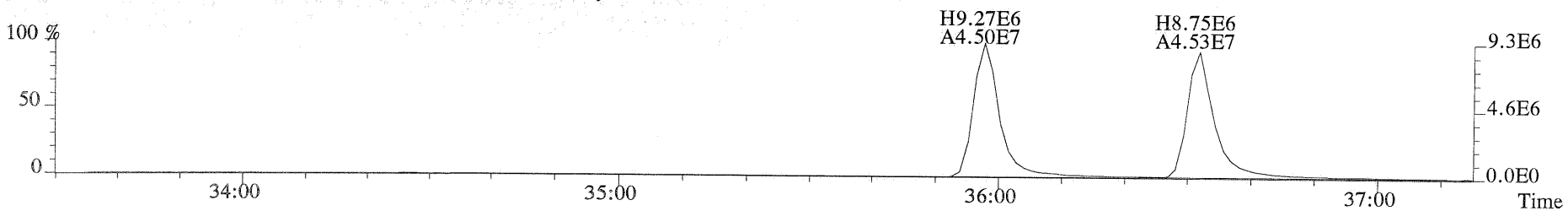


File:02JUL16Z #1-180 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory

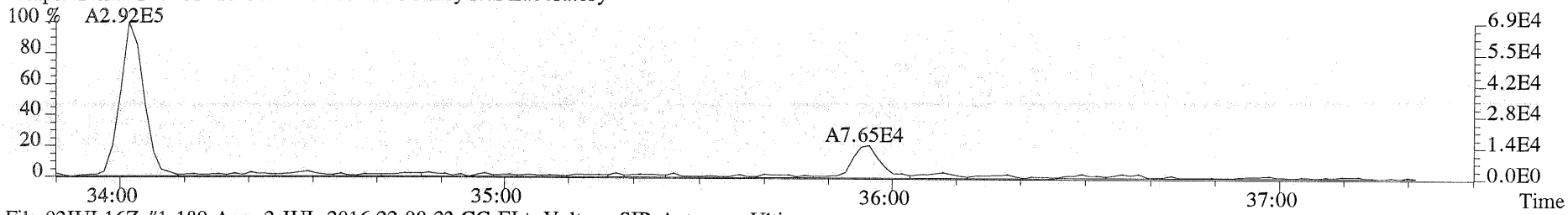


File:02JUL16Z #1-180 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory

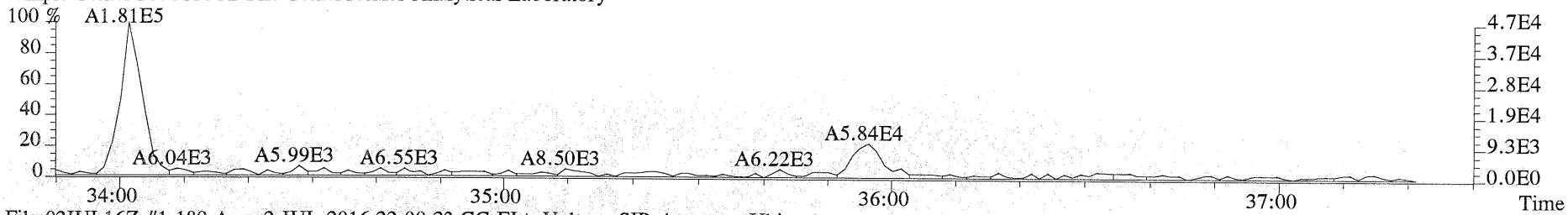
File:02JUL16Z #1-180 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



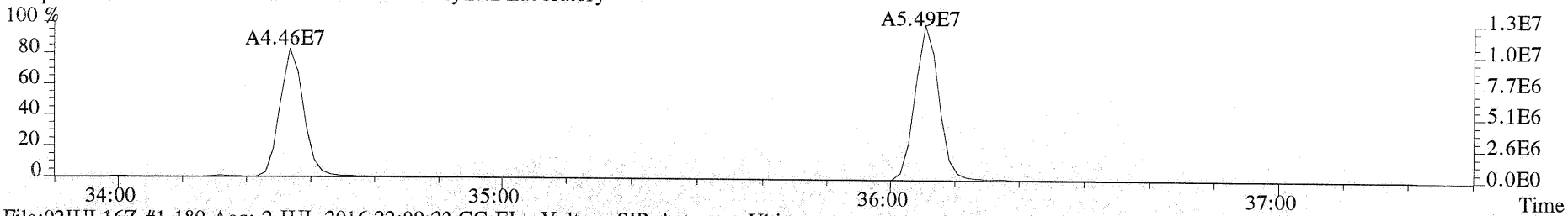
File:02JUL16Z #1-180 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



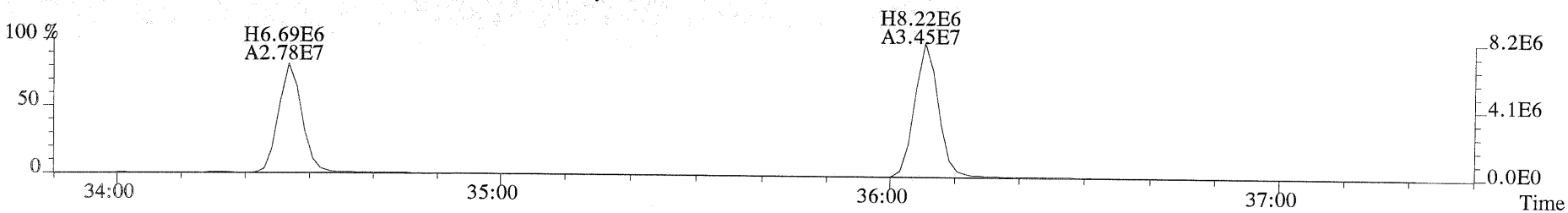
File:02JUL16Z #1-180 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



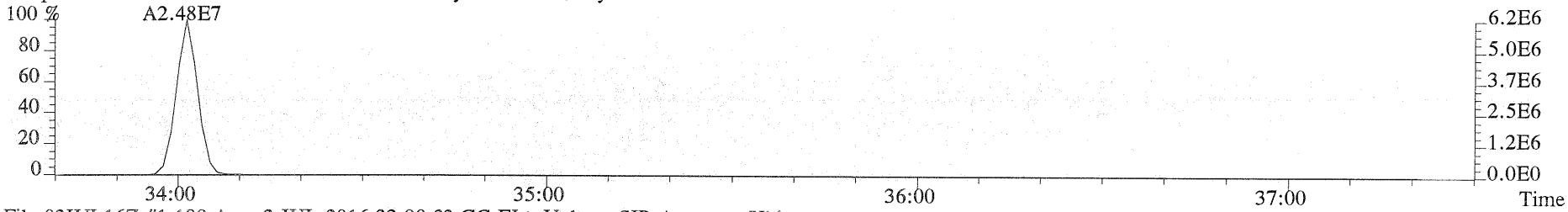
File:02JUL16Z #1-180 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



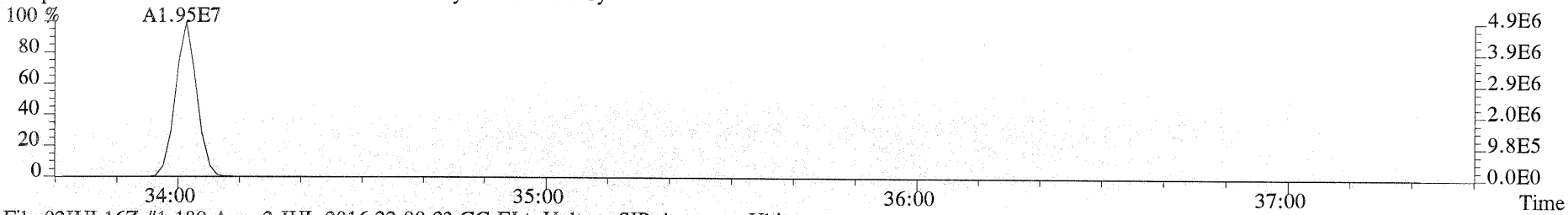
File:02JUL16Z #1-180 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



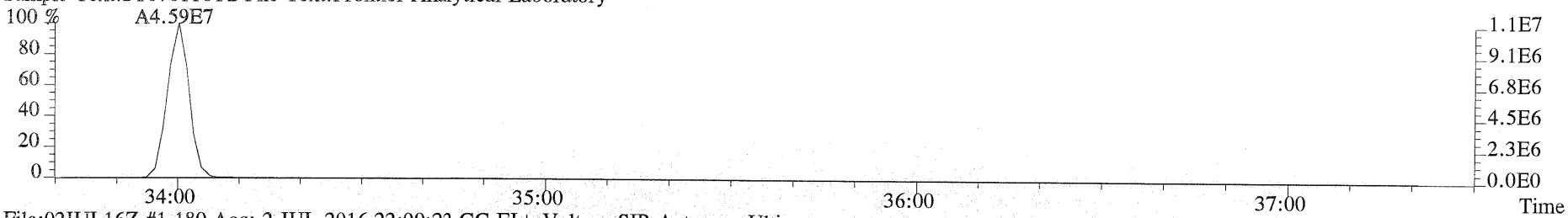
File:02JUL16Z #1-180 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



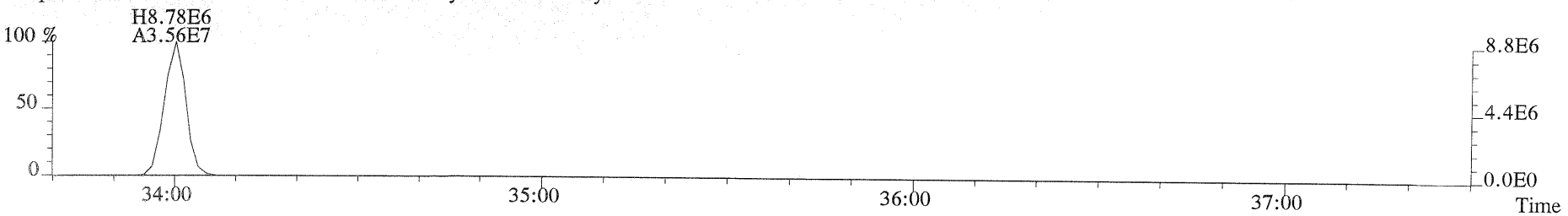
File:02JUL16Z #1-180 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



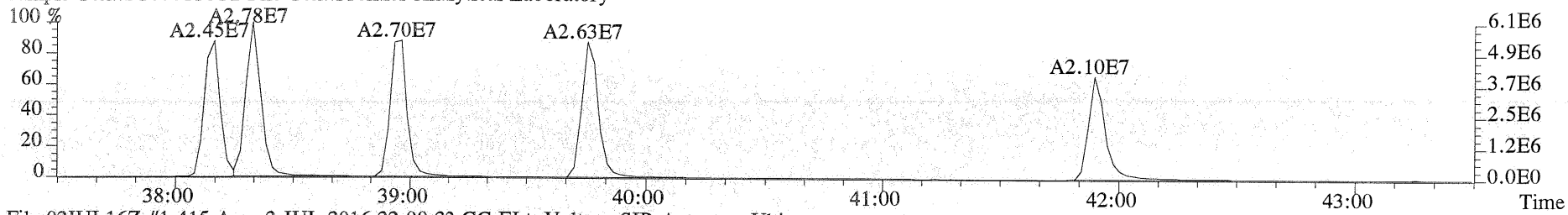
File:02JUL16Z #1-180 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



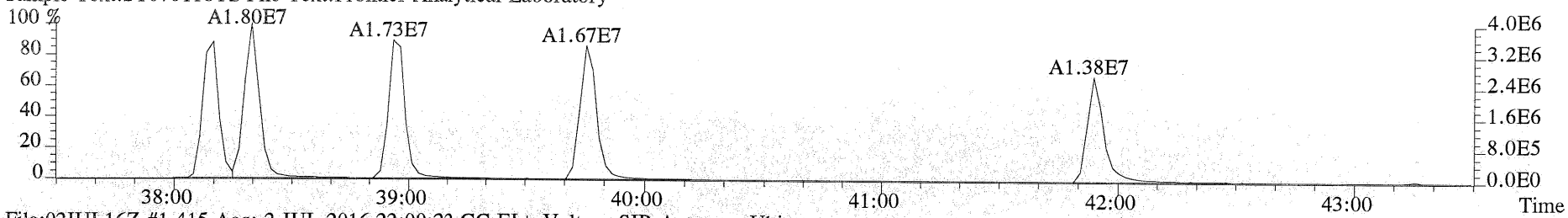
File:02JUL16Z #1-180 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



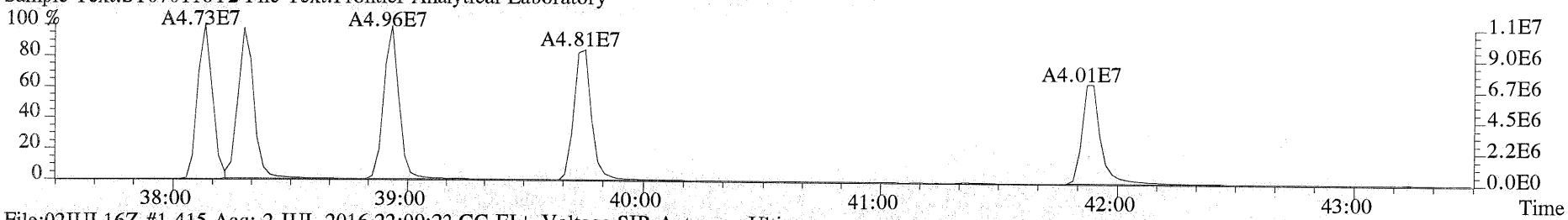
File:02JUL16Z #1-415 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



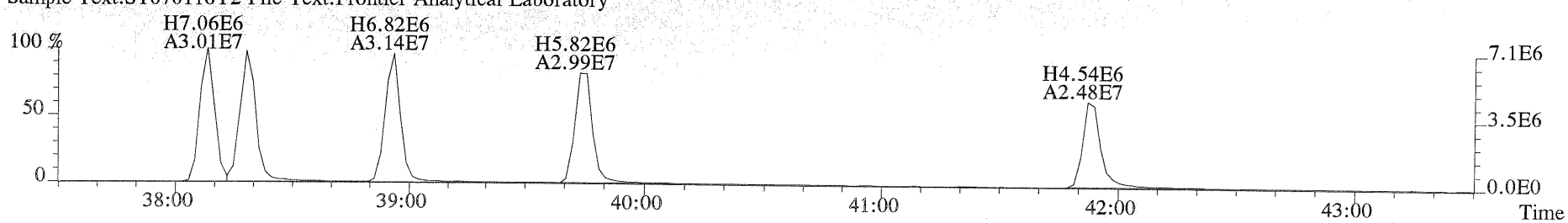
File:02JUL16Z #1-415 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



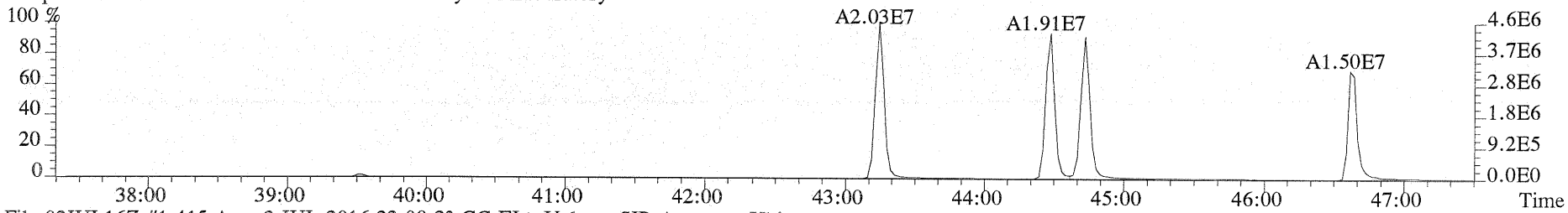
File:02JUL16Z #1-415 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



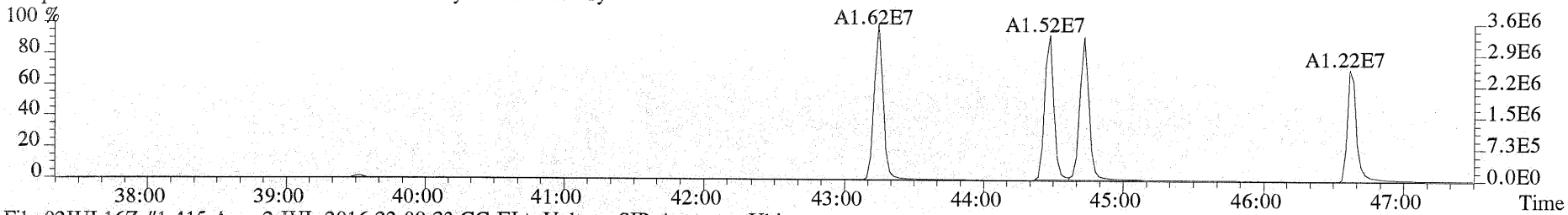
File:02JUL16Z #1-415 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



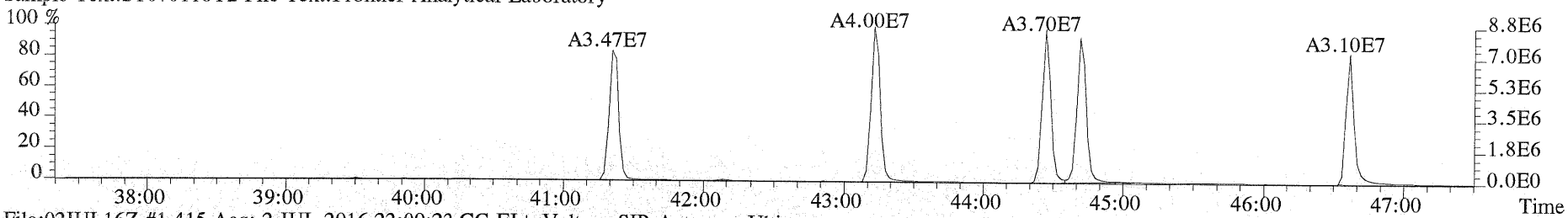
File:02JUL16Z #1-415 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



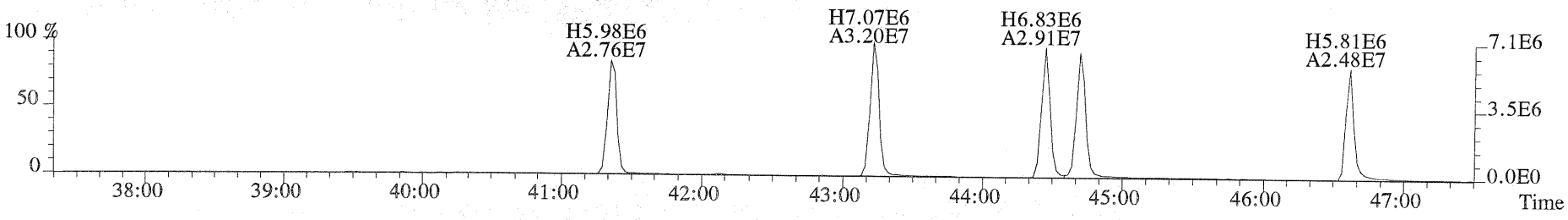
File:02JUL16Z #1-415 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



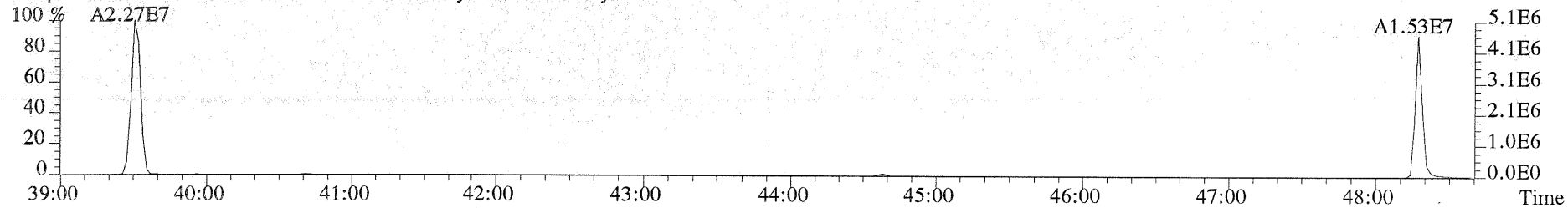
File:02JUL16Z #1-415 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



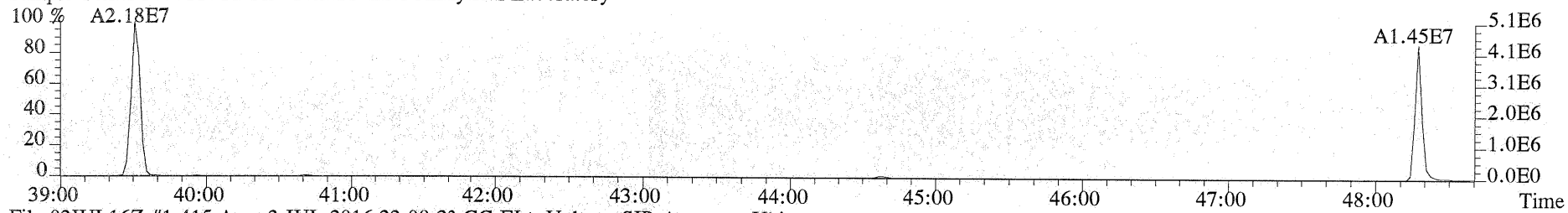
File:02JUL16Z #1-415 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



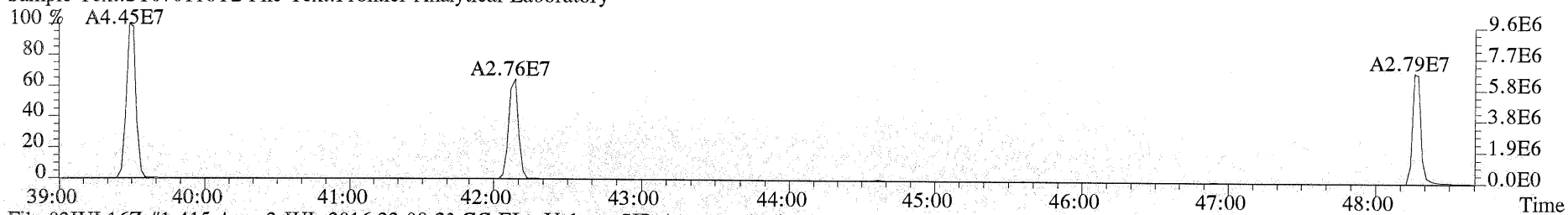
File:02JUL16Z #1-415 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



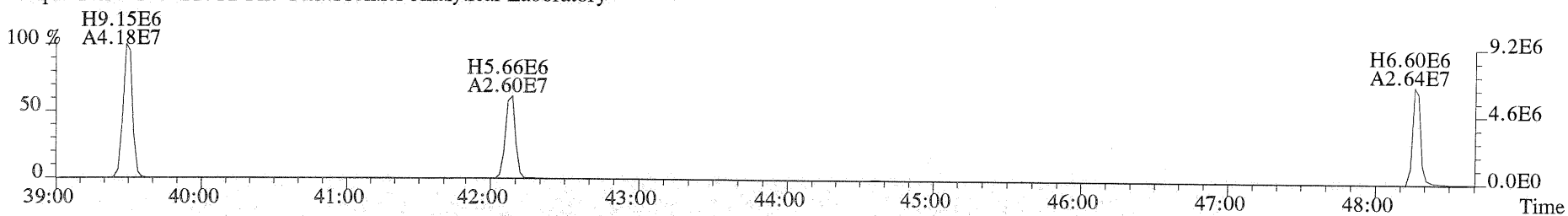
File:02JUL16Z #1-415 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



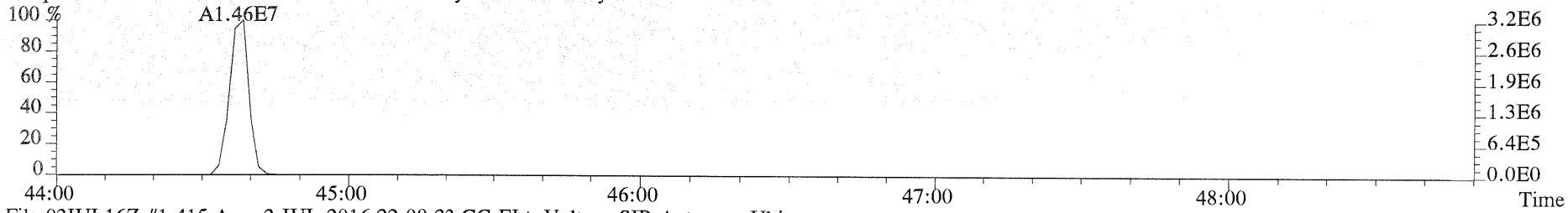
File:02JUL16Z #1-415 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



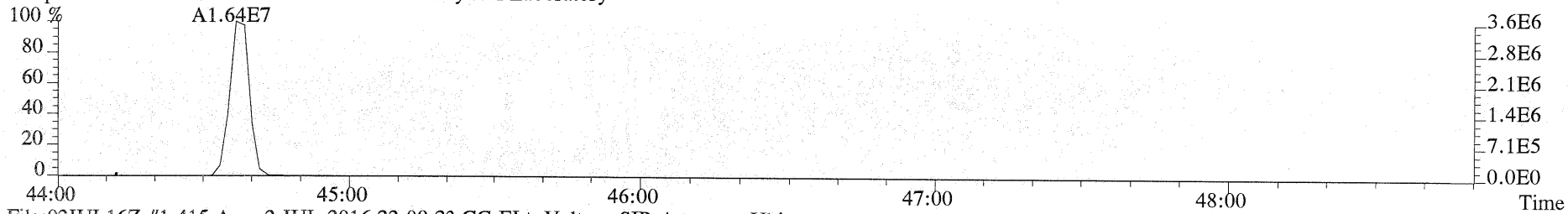
File:02JUL16Z #1-415 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



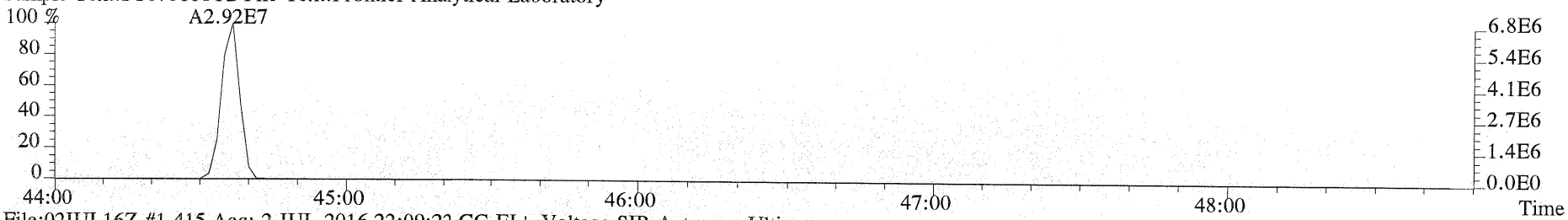
File:02JUL16Z #1-415 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



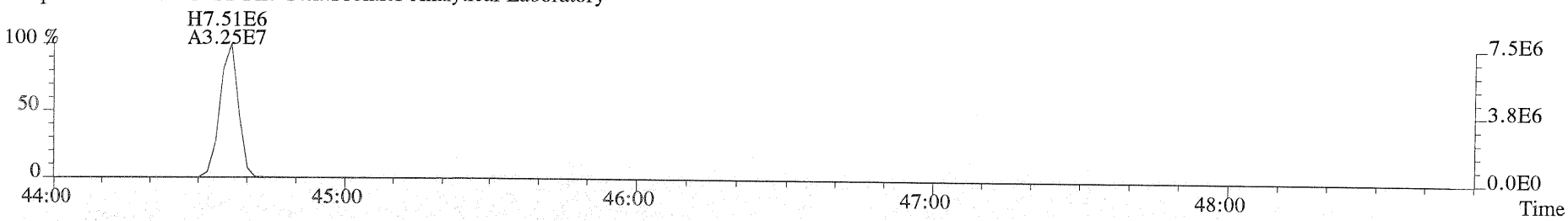
File:02JUL16Z #1-415 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



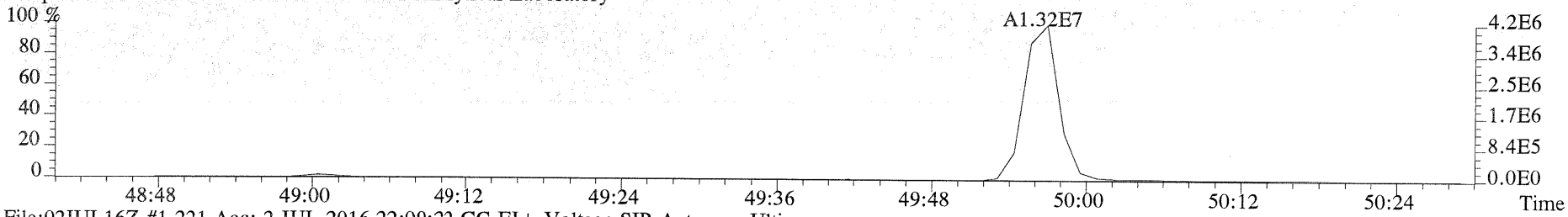
File:02JUL16Z #1-415 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



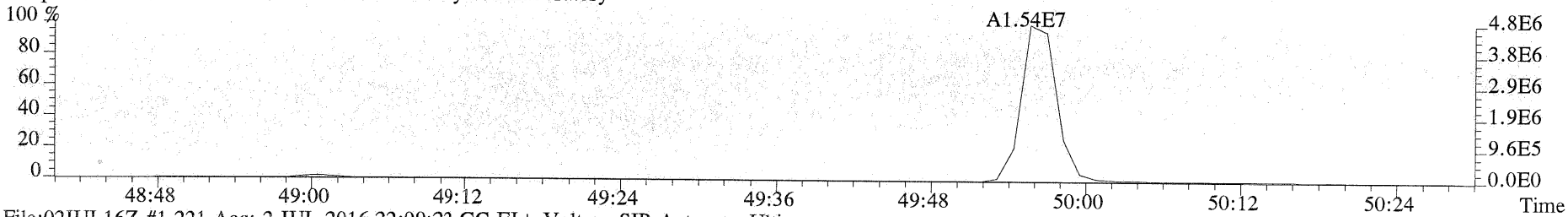
File:02JUL16Z #1-415 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



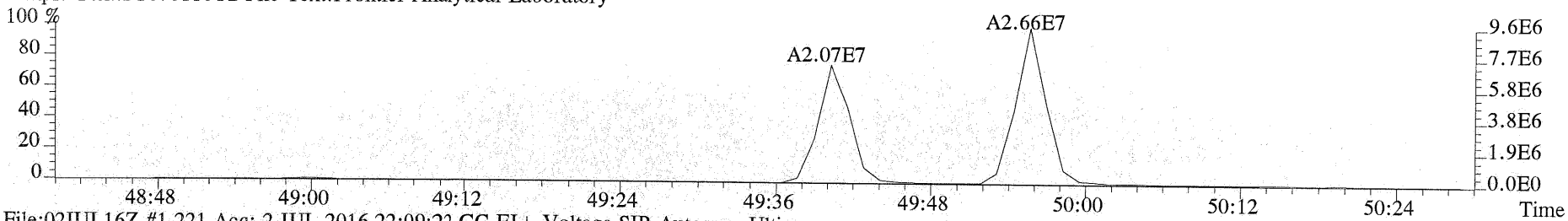
File:02JUL16Z #1-221 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



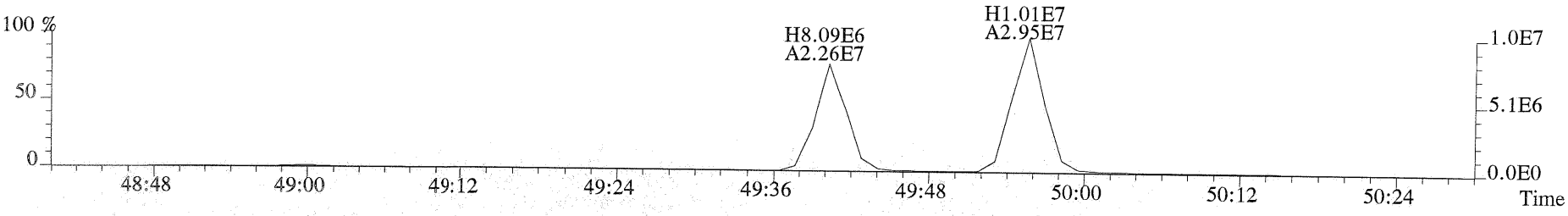
File:02JUL16Z #1-221 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



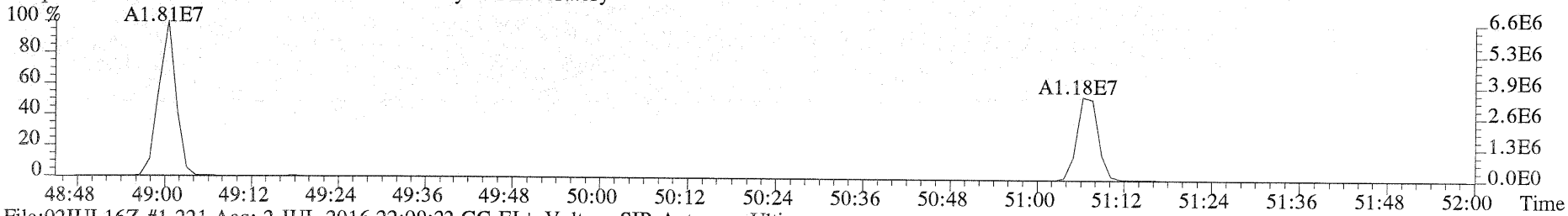
File:02JUL16Z #1-221 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



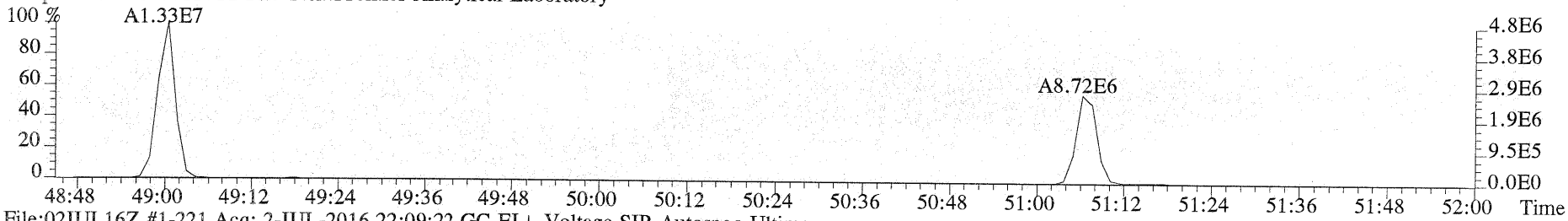
File:02JUL16Z #1-221 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 22:09:22 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:ST070116Y2 File Text:Frontier Analytical Laboratory



File:02JUL16Z #1-221 Acq: 2-JUL-2016 22:09:22 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:ST070116Y2 File Text:Frontier Analytical Laboratory



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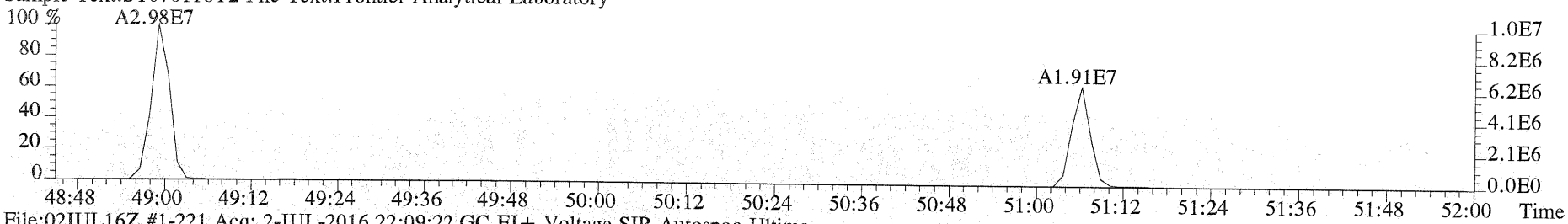
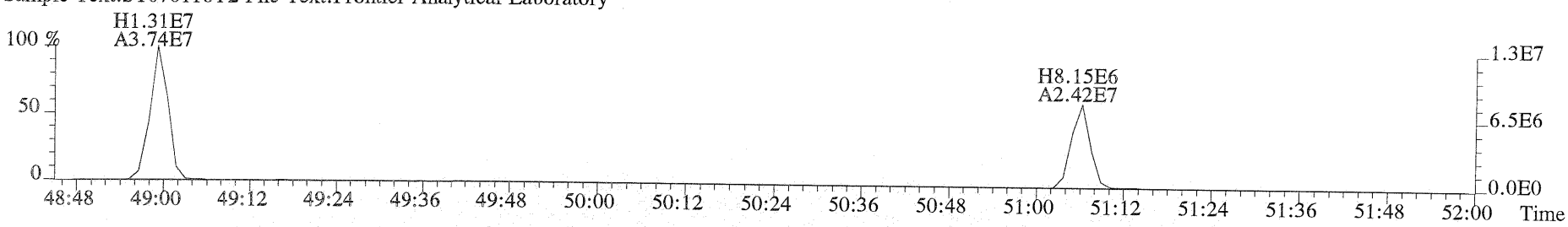
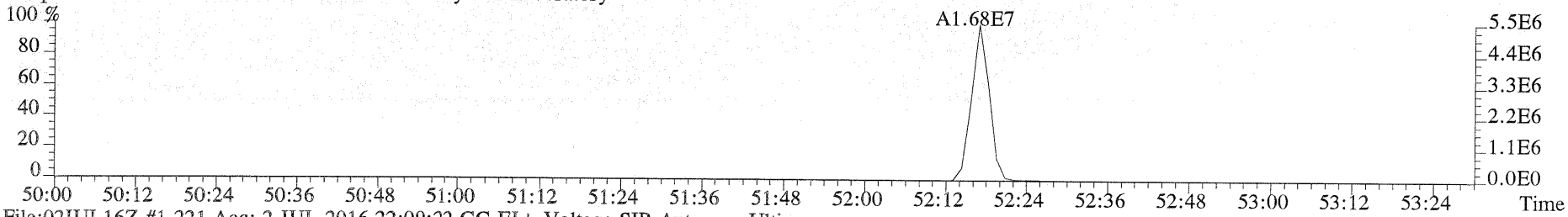
473.7648 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



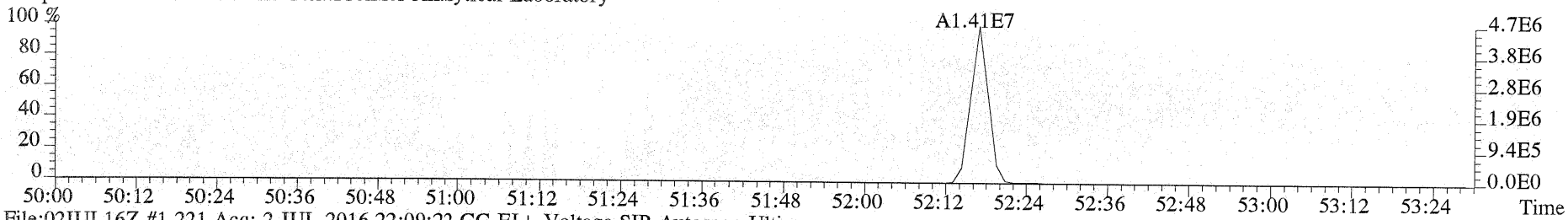
File:02JUL16Z #1-221 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



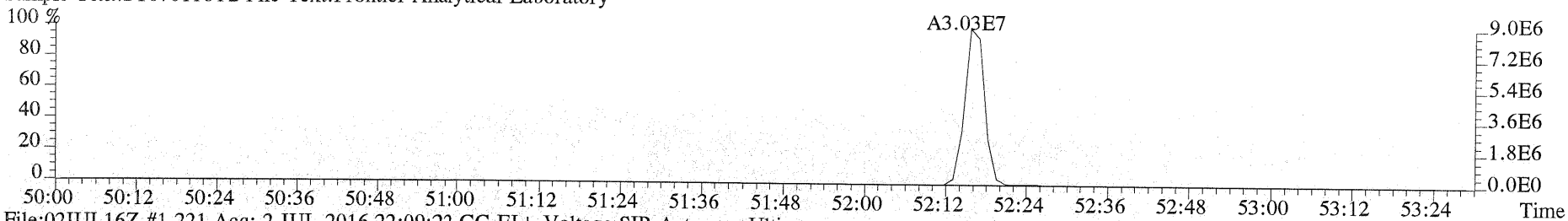
File:02JUL16Z #1-221 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



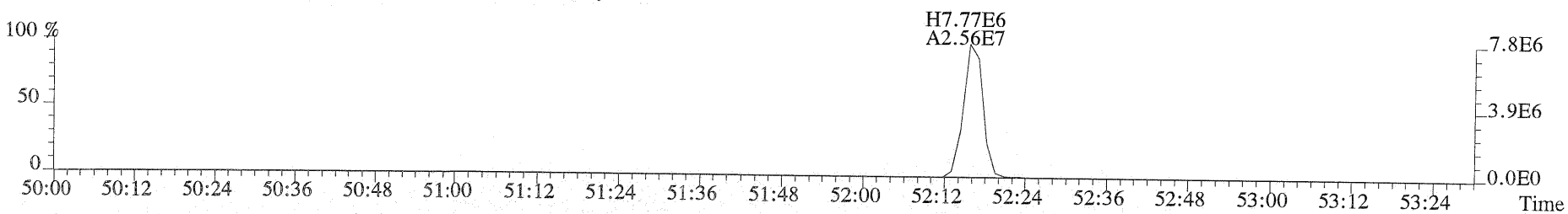
File:02JUL16Z #1-221 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory



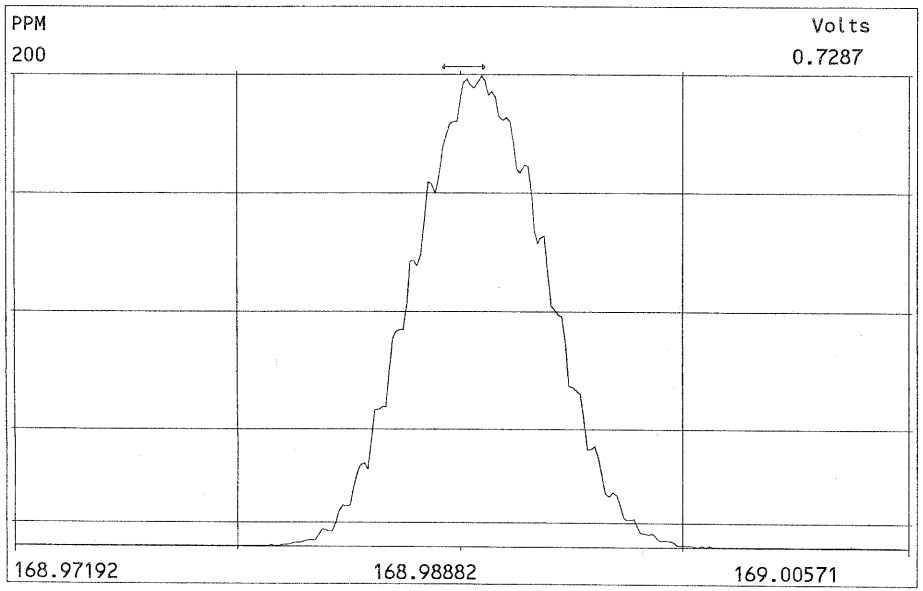
File:02JUL16Z #1-221 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory

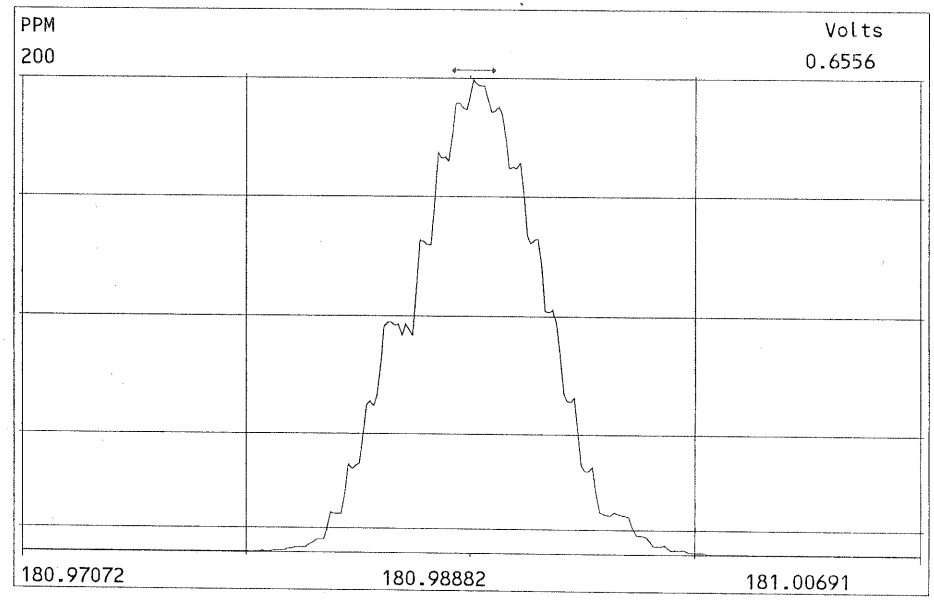


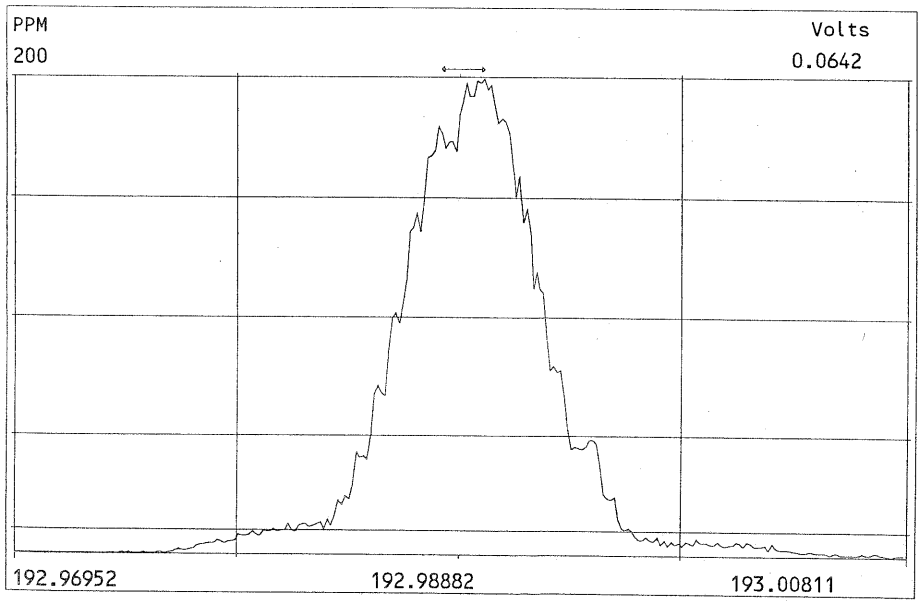
File:02JUL16Z #1-221 Acq: 2-JUL-2016 22:09:22 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST070116Y2 File Text:Frontier Analytical Laboratory

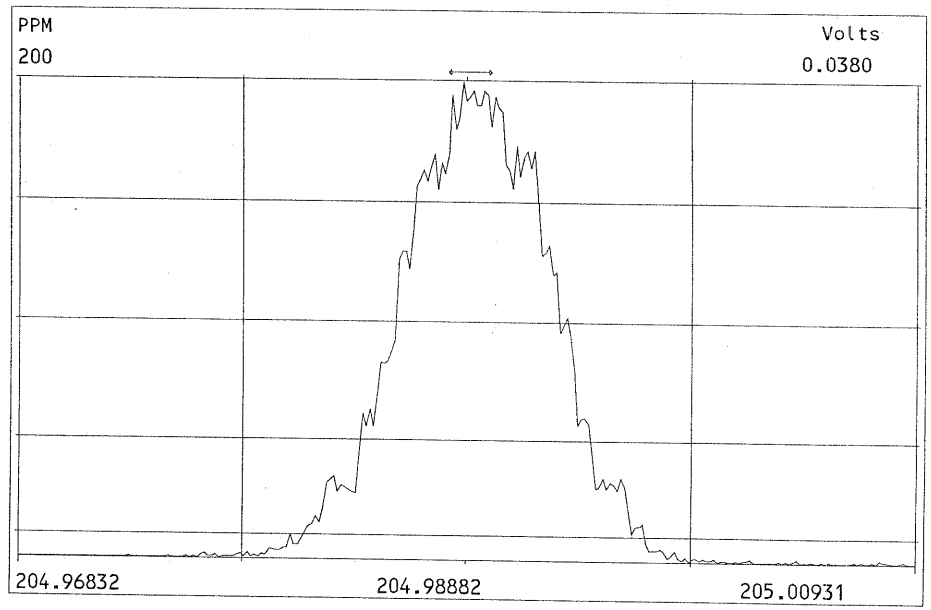


Peak Locate Examination: 2-JUL-2016:23:24 File:02JUL16Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

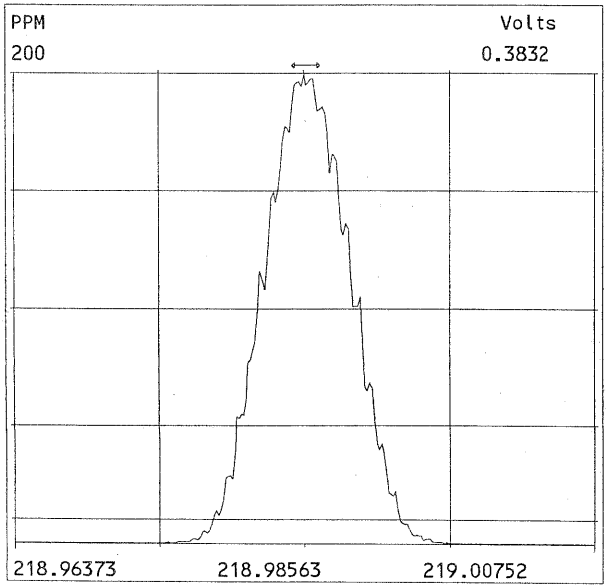


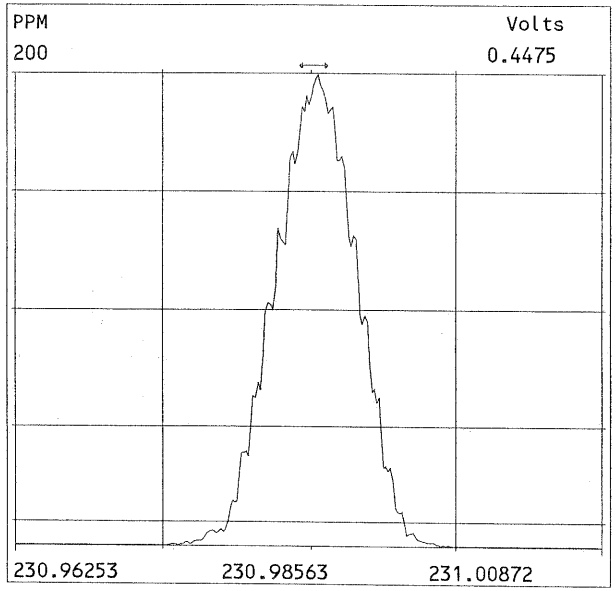


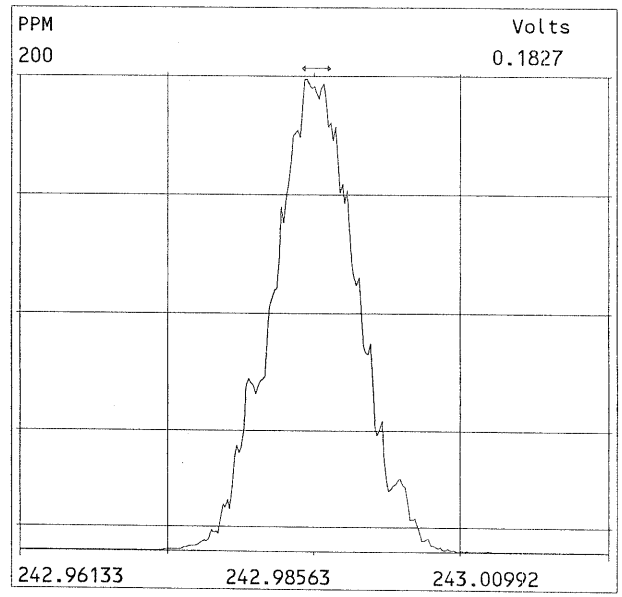


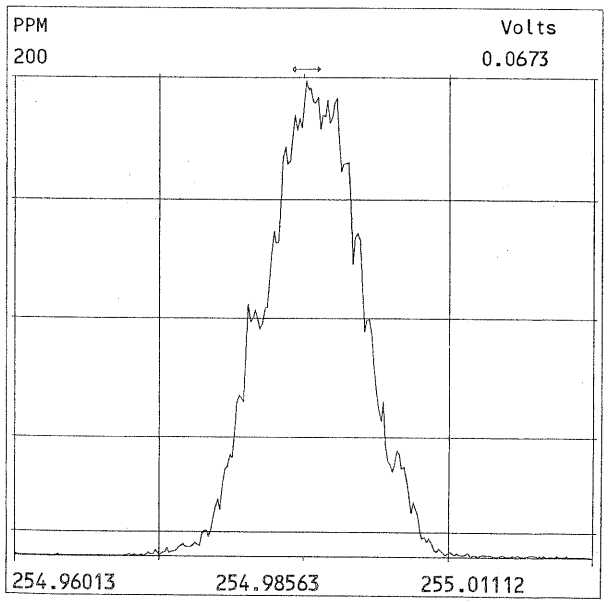


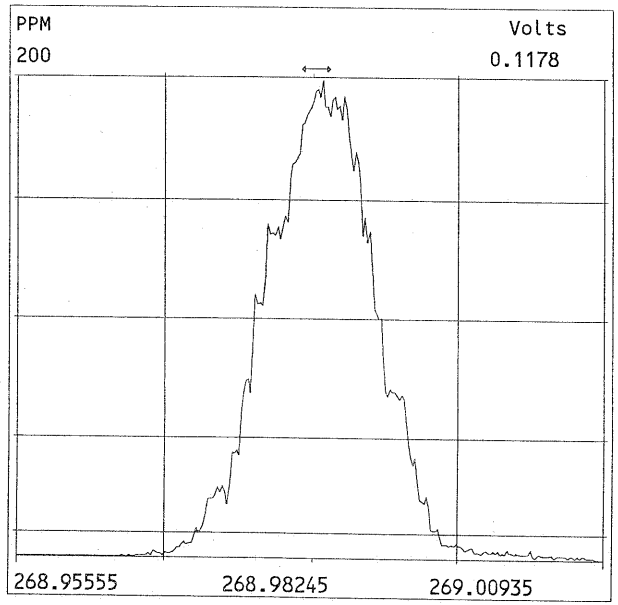
Peak Locate Examination: 2-JUL-2016:23:25 File:02JUL16Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

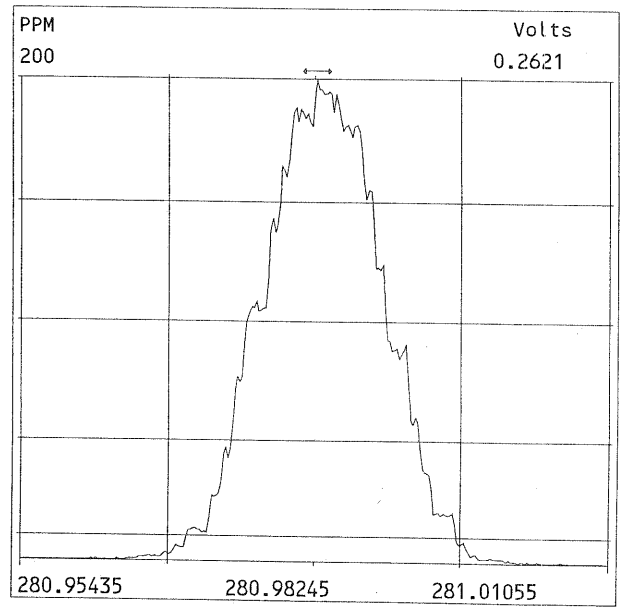




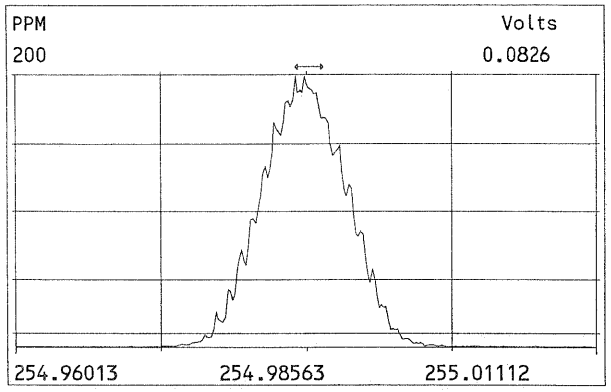


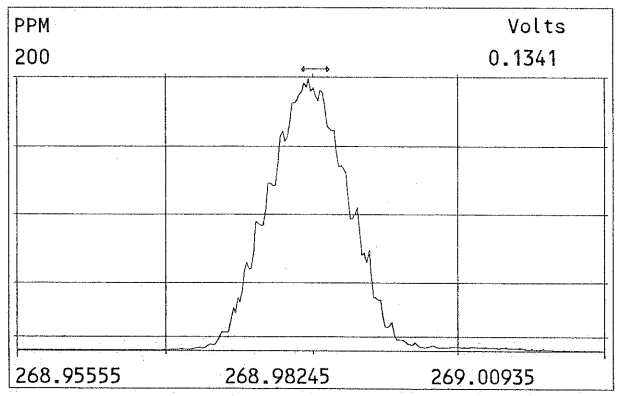


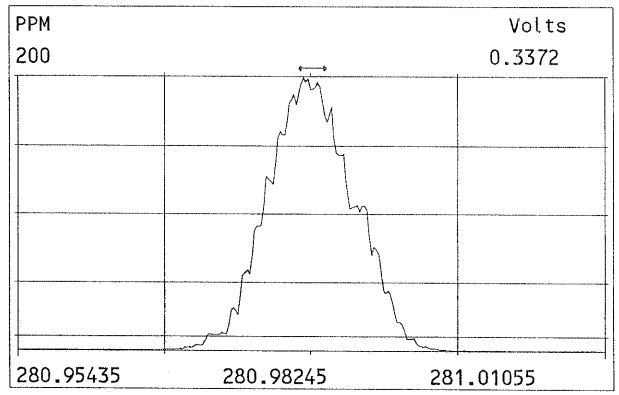


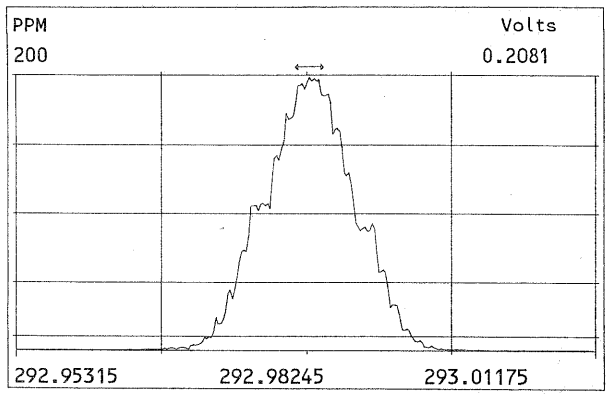


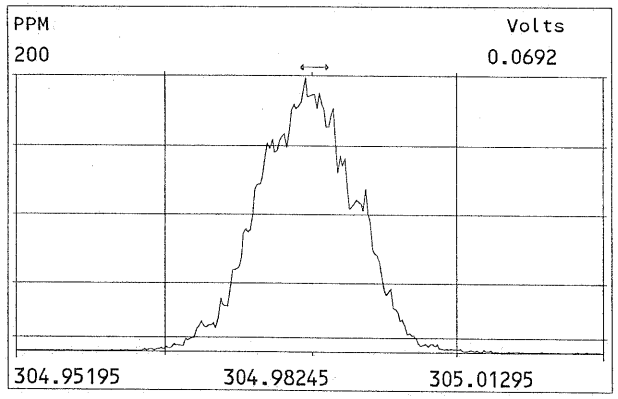
Peak Locate Examination: 2-JUL-2016:23:25 File:02JUL16Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

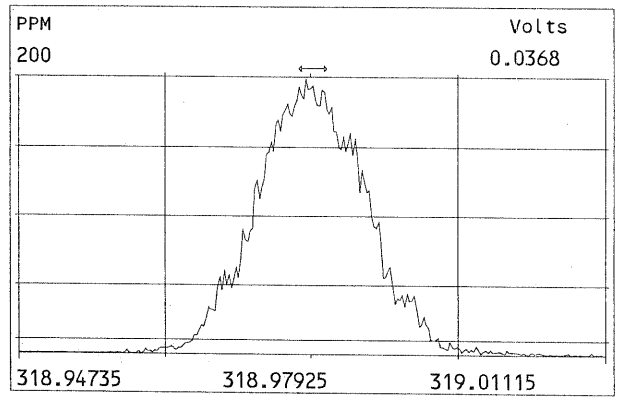


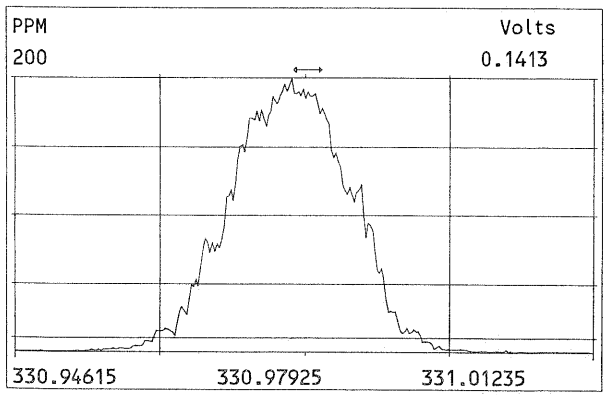


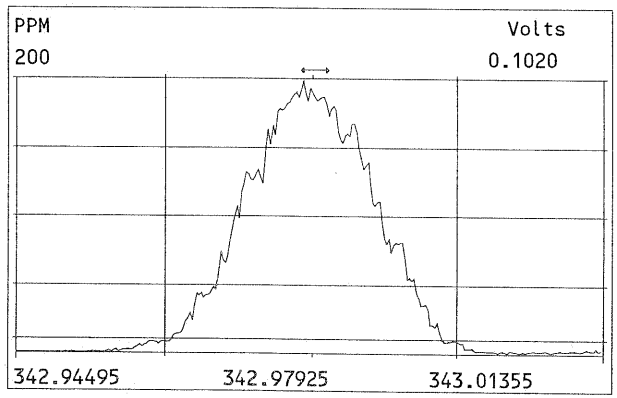




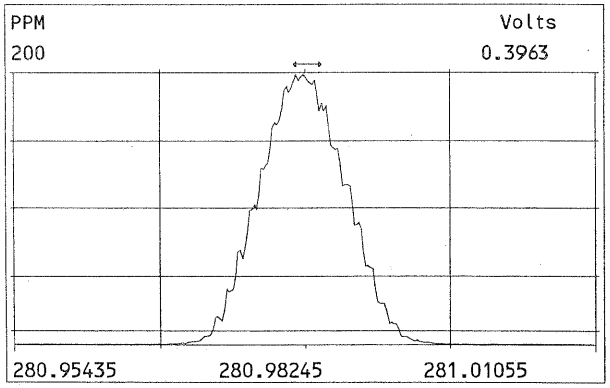


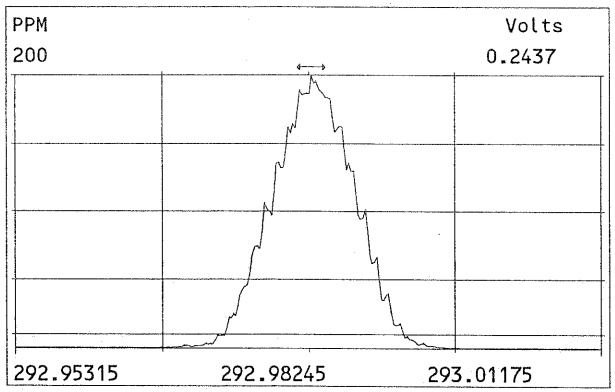


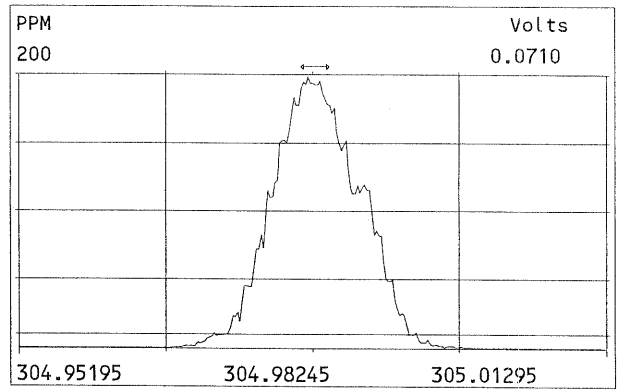


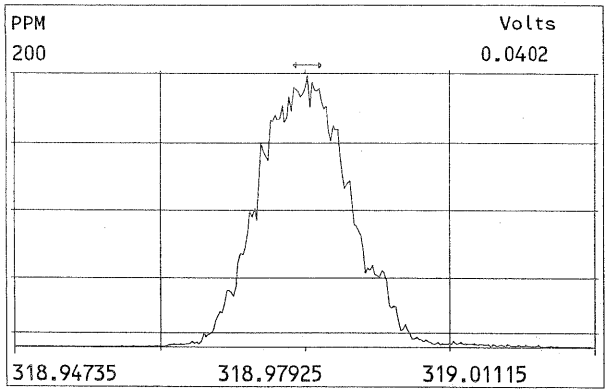


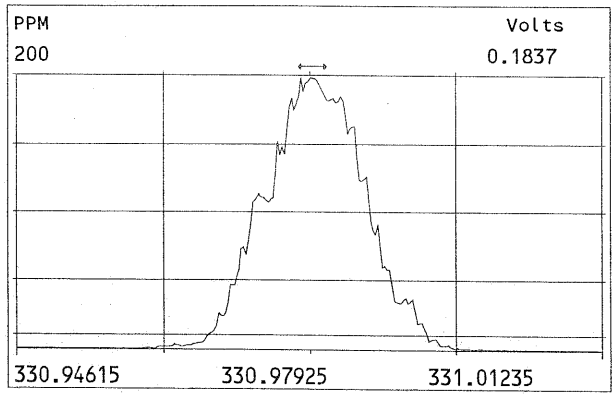
Peak Locate Examination: 2-JUL-2016:23:26 File:02JUL16Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

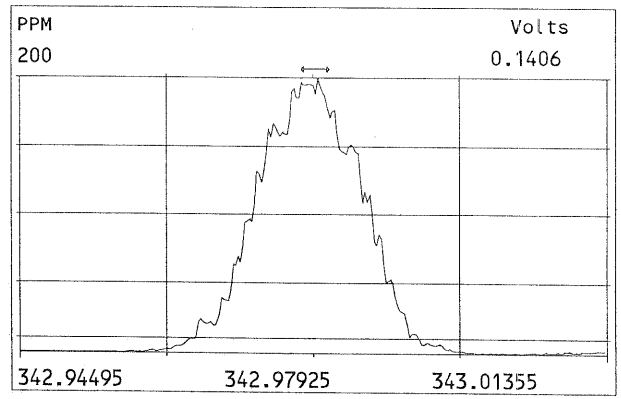


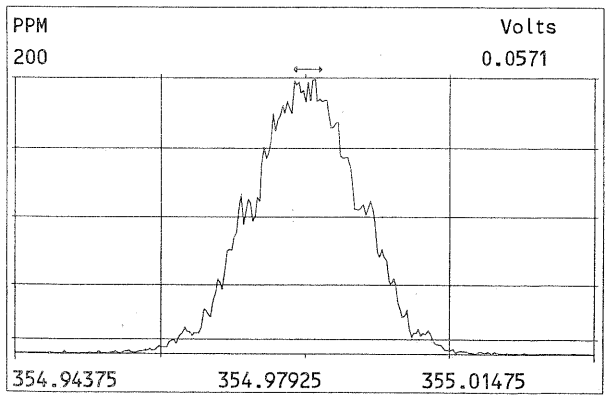


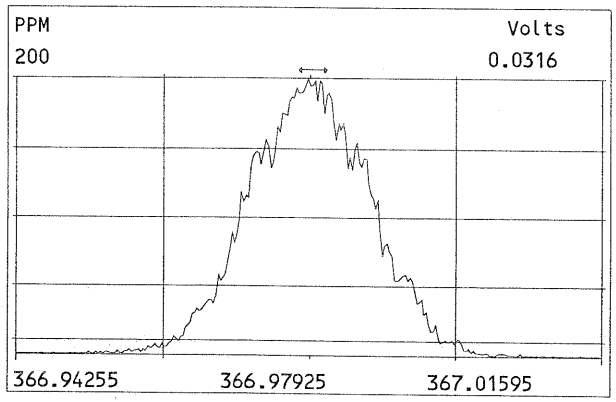


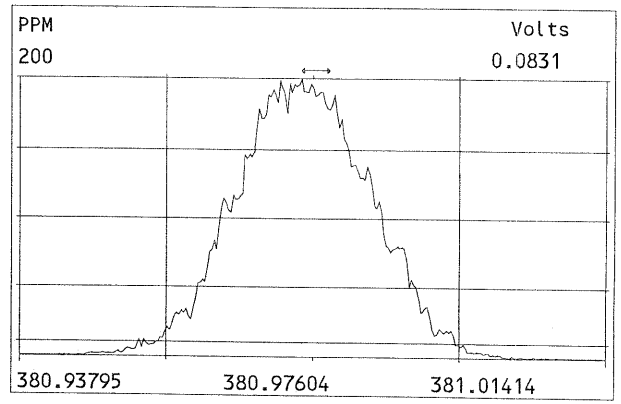




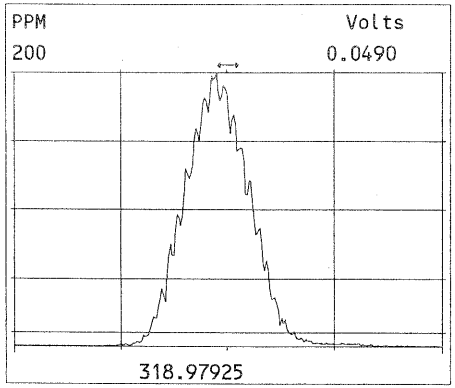


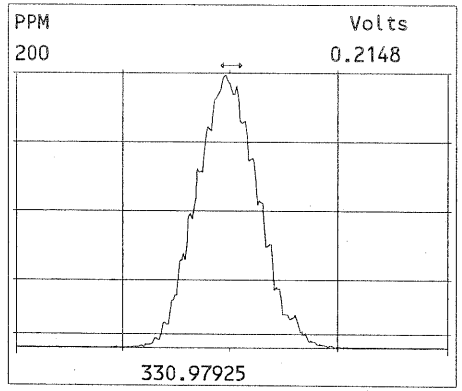


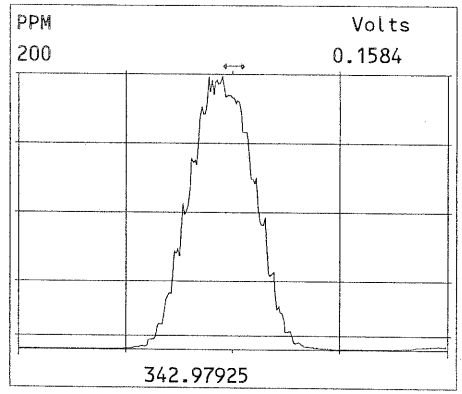


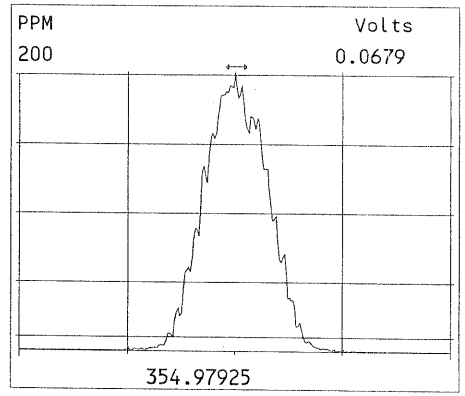


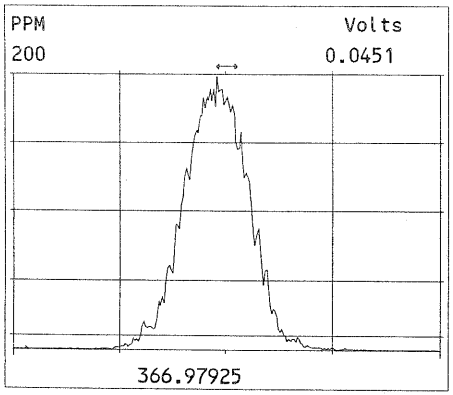
Peak Locate Examination: 2-JUL-2016:23:26 File:02JUL16Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

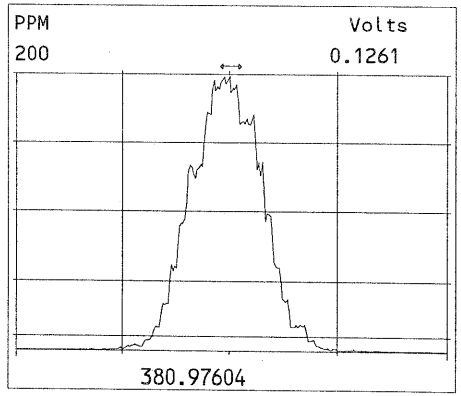


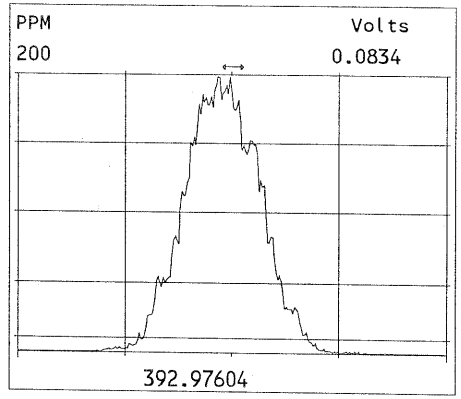


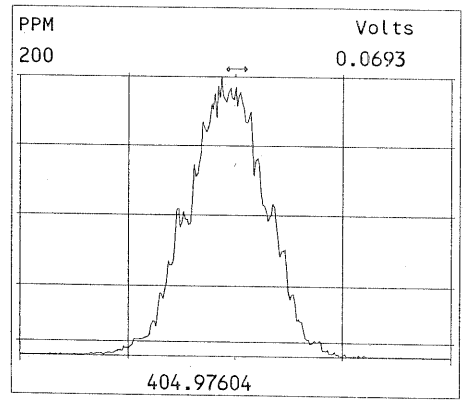


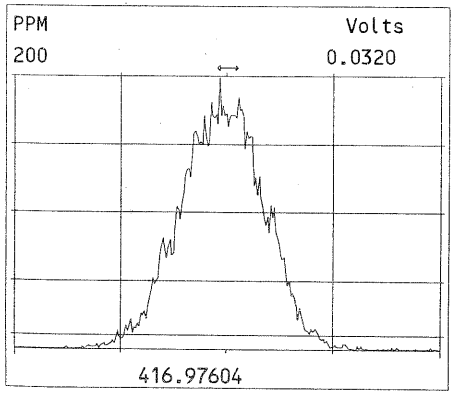


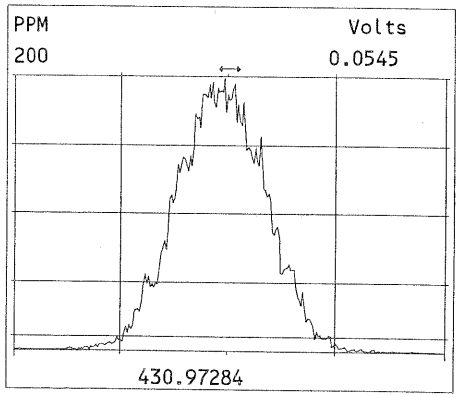


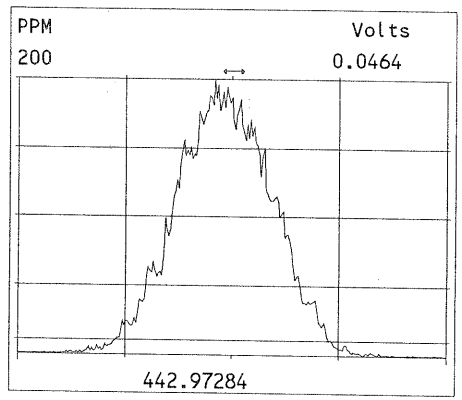
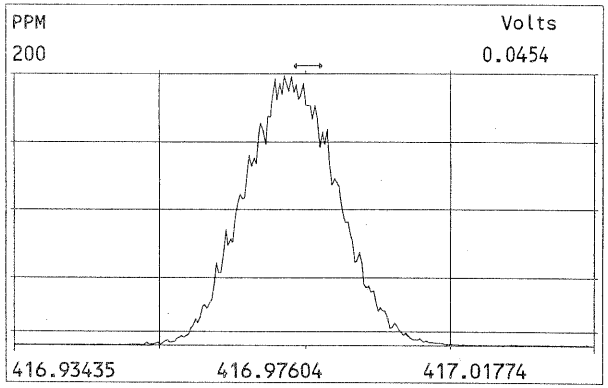
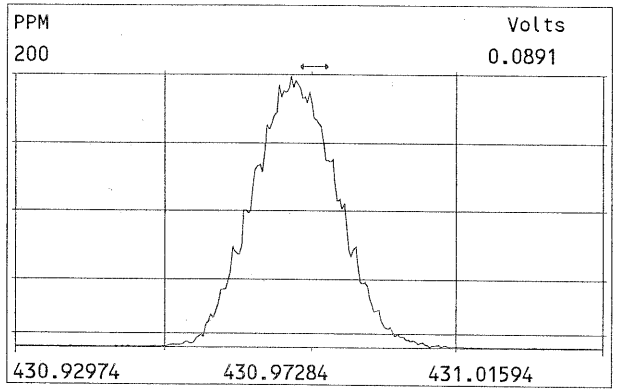
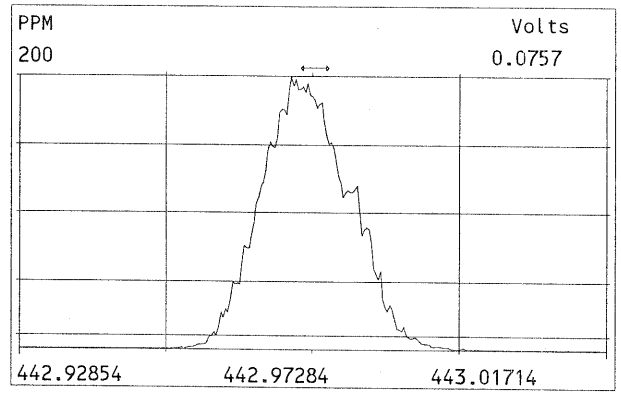
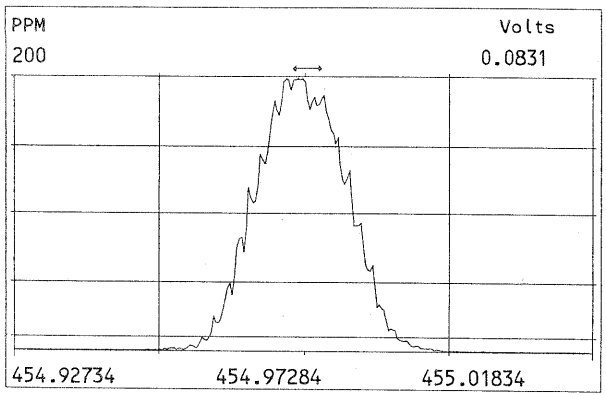
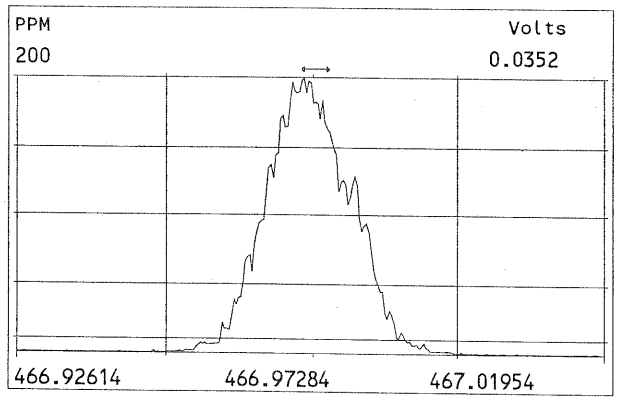
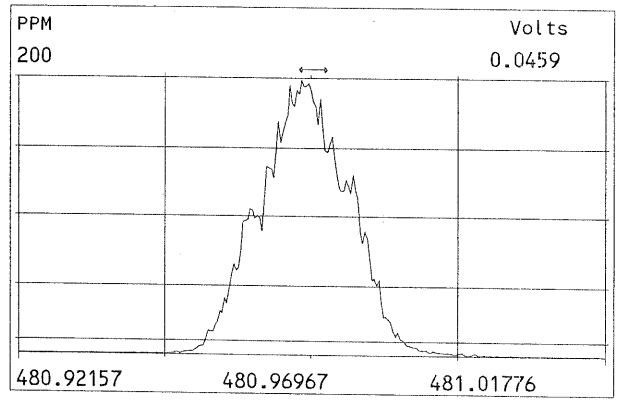
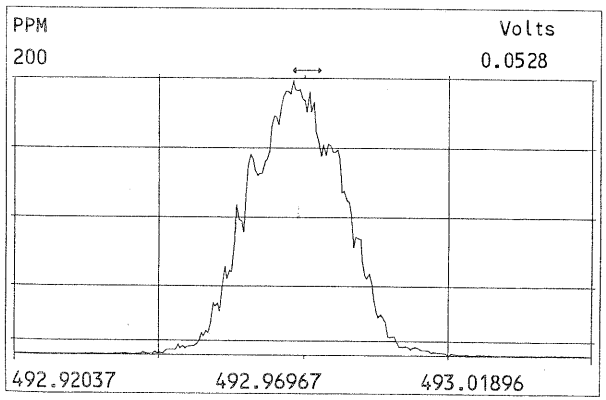
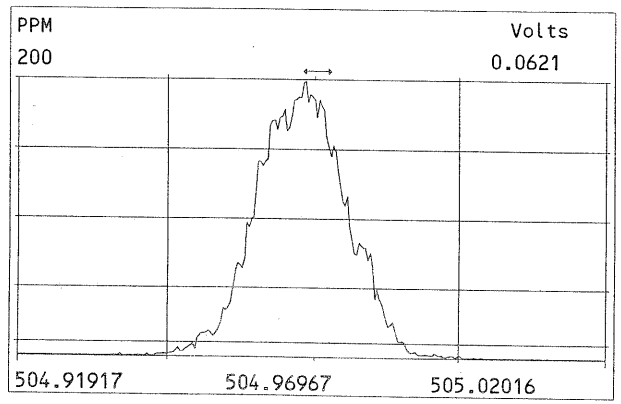
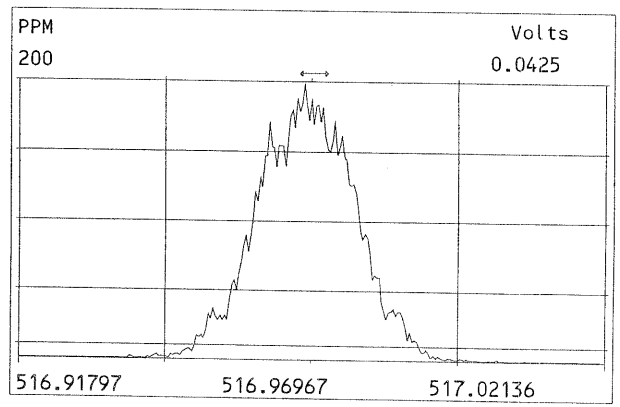








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