October 3, 2016

FAL Project ID: **10146 (Amended)**

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

Dear Dr. Heavner,

Enclosed is the amended Level IV report for Frontier Analytical Laboratory project **10146**. The original level I report was reported to you on 9/27/2016. On 9/28/2016 you contacted us by e-mail and requested we provide a level IV report for this project. The following Level IV report corresponds to your project **LDW ENR/AC Pilot Study**. Twelve solvent samples were received on 9/14/2016 in good condition. These samples were extracted and analyzed following EPA Method 1668C for all 209 polychlorinated biphenyls (PCBs). The total PCB concentration is listed in the upper right hand corner of the first data page (Page 1 of 3) of each EPA Method 1668C sample. A turnaround time of fifteen business days was requested for project **10146**. This amended report has been paginated with an "A" to distinguish it from the originally sent level I report.

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, your e-mail dated 9/28/2016, our sample login form and the sample photos. The Laboratory Raw Data section contains our project request sheet, an extraction bench sheet and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms and chromatograms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms and chromatograms for each point of the initial calibration curve as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms and chromatograms for all beginning and ending calibration injections associated with the samples and QC. The enclosed results are specifically for the sample referenced in this report only. These results meet all National Environmental Laboratory Accreditation Program (NELAP) requirements and shall not be reproduced except in full. Frontier Analytical Laboratory's State of Oregon NELAP certificate number is **4041**. Our State of Washington ELAP certificate number is **C844**. This report and the EDD have been emailed to you. A portable document format (PDF) file of this report on compact disk has also been mailed to you.

If you have any questions regarding project **10146**, 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: **10146**

Received on: **09/14/2016** Project Due: **10/06/2016** Storage: **R2**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
10146-001-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SC-ENR+AC-CA-S010	EPA 1668 PCB	Solvent	09/10/2016	10:20 am	09/10/2017
10146-002-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SC-ENR+AC-CB-S010	EPA 1668 PCB	Solvent	09/10/2016	10:30 am	09/10/2017
10146-003-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SC-ENR+AC-CC-S010	EPA 1668 PCB	Solvent	09/10/2016	10:42 am	09/10/2017
10146-004-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SC-ENR-CA-S010	EPA 1668 PCB	Solvent	09/10/2016	09:00 am	09/10/2017
10146-005-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SC-ENR-CB-S010	EPA 1668 PCB	Solvent	09/10/2016	09:15 am	09/10/2017
10146-006-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SC-ENR-CC-S010	EPA 1668 PCB	Solvent	09/10/2016	09:36 am	09/10/2017
10146-007-SA	0	LDW ENR/AC Pilot Study	LDW-BA-IN-ENR+AC-CA-S010	EPA 1668 PCB	Solvent	09/10/2016	11:23 am	09/10/2017
10146-008-SA	0	LDW ENR/AC Pilot Study	LDW-BA-IN-ENR+AC-CB-S010	EPA 1668 PCB	Solvent	09/10/2016	11:31 am	09/10/2017
10146-009-SA	0	LDW ENR/AC Pilot Study	LDW-BA-IN-ENR+AC-CC-S010	EPA 1668 PCB	Solvent	09/10/2016	11:39 am	09/10/2017
10146-010-SA	0	LDW ENR/AC Pilot Study	LDW-BA-IN-ENR-CA-S010	EPA 1668 PCB	Solvent	09/10/2016	12:14 pm	09/10/2017
10146-011-SA	0	LDW ENR/AC Pilot Study	LDW-BA-IN-ENR-CB-S010	EPA 1668 PCB	Solvent	09/10/2016	12:23 pm	09/10/2017
10146-012-SA	0	LDW ENR/AC Pilot Study	LDW-BA-IN-ENR-CC-S010	EPA 1668 PCB	Solvent	09/10/2016	12:32 pm	09/10/2017

FAL Sample ID	Notes
10146-002-SA	'Using sampling time from COC for our sample tracking purposes. KH 9/14/2016'

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EPA Method 1668
PCBs

FAL ID: 10146-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-19-2016
Total Conc: 0.00

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.34			PCB-51	ND	6.10		
PCB-2	ND	4.12			PCB-52	ND	5.15	C	69
PCB-3	ND	4.03			PCB-53	ND	6.38		
PCB-4	ND	7.29			PCB-54	ND	4.51		
PCB-5	ND	8.22			PCB-55	ND	4.80		
PCB-6	ND	8.64			PCB-56	ND	7.02	C	60
PCB-7	ND	8.45			PCB-57	ND	4.99		
PCB-8	ND	9.91			PCB-58	ND	5.10		
PCB-9	ND	9.40			PCB-59	-	-	C042	42
PCB-10	ND	9.61			PCB-60	-	-	C056	56
PCB-11	ND	11.1			PCB-61	ND	4.85	C	70
PCB-12	ND	9.85			PCB-62	ND	5.19		
PCB-13	ND	11.0			PCB-63	ND	4.93		
PCB-14	ND	9.21			PCB-64	-	-	C041	41/71/72
PCB-15	ND	12.1			PCB-65	ND	5.06		
PCB-16	ND	5.79			PCB-66	ND	4.61	C	76
PCB-17	ND	5.72			PCB-67	ND	4.96		
PCB-18	ND	6.60			PCB-68	ND	4.70		
PCB-19	ND	6.06			PCB-69	-	-	C052	52
PCB-20	ND	7.28	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	7.16			PCB-72	-	-	C041	41/64/71
PCB-23	ND	6.64			PCB-73	ND	5.01		
PCB-24	ND	4.39			PCB-74	ND	4.75		
PCB-25	ND	6.28			PCB-75	-	-	C048	48
PCB-26	ND	7.91			PCB-76	-	-	C066	66
PCB-27	ND	4.54			PCB-77	ND	7.77		
PCB-28	ND	5.99			PCB-78	ND	7.71		
PCB-29	ND	7.66			PCB-79	ND	7.08		
PCB-30	ND	4.32			PCB-80	ND	4.31		
PCB-31	ND	8.62			PCB-81	ND	6.89		
PCB-32	ND	4.78			PCB-82	ND	10.7		
PCB-33	-	-	C020	20/21	PCB-83	ND	7.56	C	112
PCB-34	ND	9.79			PCB-84	ND	8.70	C	92
PCB-35	ND	9.96			PCB-85	ND	7.50	C	116
PCB-36	ND	8.63			PCB-86	ND	8.97		
PCB-37	ND	7.45			PCB-87	ND	6.96	C	117/125
PCB-38	ND	7.75			PCB-88	ND	8.99	C	91
PCB-39	ND	8.79			PCB-89	ND	8.83		
PCB-40	ND	8.28			PCB-90	ND	7.77	C	101
PCB-41	ND	4.98	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	5.35	C	59	PCB-92	-	-	C084	84
PCB-43	ND	6.66	C	49	PCB-93	ND	9.32		
PCB-44	ND	7.24			PCB-94	ND	9.59		
PCB-45	ND	7.14			PCB-95	ND	9.02		
PCB-46	ND	7.68			PCB-96	ND	6.38		
PCB-47	ND	5.47			PCB-97	ND	7.25		
PCB-48	ND	5.03	C	75	PCB-98	ND	7.45	C	102
PCB-49	-	-	C043	43	PCB-99	ND	6.99		
PCB-50	ND	6.14			PCB-100	ND	7.95		

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EPA Method 1668
PCBs

FAL ID: 10146-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-19-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	5.76		
PCB-102	-	-	C098	98	PCB-152	ND	4.98		
PCB-103	ND	7.74			PCB-153	ND	4.89		
PCB-104	ND	5.81			PCB-154	ND	5.84		
PCB-105	ND	7.08			PCB-155	ND	4.20		
PCB-106	ND	6.35	C	118	PCB-156	ND	4.72		
PCB-107	ND	6.42	C	108	PCB-157	ND	4.56		
PCB-108	-	-	C107	107	PCB-158	ND	4.35	C	160
PCB-109	ND	6.42			PCB-159	ND	4.25		
PCB-110	ND	5.53			PCB-160	-	-	C158	158
PCB-111	ND	5.22	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	6.96			PCB-163	-	-	C138	138/164
PCB-114	ND	6.83			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.63		
PCB-117	-	-	C087	87/125	PCB-167	ND	4.52		
PCB-118	-	-	C106	106	PCB-168	ND	4.35		
PCB-119	ND	6.18			PCB-169	ND	4.88		
PCB-120	ND	6.37			PCB-170	ND	6.16		
PCB-121	ND	6.32			PCB-171	ND	5.31		
PCB-122	ND	5.99			PCB-172	ND	5.92		
PCB-123	ND	5.58			PCB-173	ND	5.97		
PCB-124	ND	7.30			PCB-174	ND	5.04		
PCB-125	-	-	C087	87/117	PCB-175	ND	5.06		
PCB-126	ND	9.61			PCB-176	ND	3.70		
PCB-127	ND	6.99			PCB-177	ND	5.90		
PCB-128	ND	5.14	C	162	PCB-178	ND	5.34		
PCB-129	ND	6.99			PCB-179	ND	3.62		
PCB-130	ND	6.47			PCB-180	ND	4.44		
PCB-131	ND	5.61	C	133	PCB-181	ND	5.41		
PCB-132	ND	5.06	C	161	PCB-182	ND	4.66	C	187
PCB-133	-	-	C131	131	PCB-183	ND	4.64		
PCB-134	ND	5.74	C	143	PCB-184	ND	3.39		
PCB-135	ND	6.33			PCB-185	ND	5.17		
PCB-136	ND	5.27			PCB-186	ND	3.70		
PCB-137	ND	6.01			PCB-187	-	-	C182	182
PCB-138	ND	4.31	C	163/164	PCB-188	ND	3.58		
PCB-139	ND	5.21	C	149	PCB-189	ND	4.11		
PCB-140	ND	5.30			PCB-190	ND	4.44		
PCB-141	ND	5.78			PCB-191	ND	4.27		
PCB-142	ND	6.46			PCB-192	ND	4.34		
PCB-143	-	-	C134	134	PCB-193	ND	4.06		
PCB-144	ND	4.92			PCB-194	ND	3.91		
PCB-145	ND	4.94			PCB-195	ND	4.35		
PCB-146	ND	4.76	C	165	PCB-196	ND	7.38	C	203
PCB-147	ND	5.30			PCB-197	ND	5.28		
PCB-148	ND	6.32			PCB-198	ND	8.17		
PCB-149	-	-	C139	139	PCB-199	ND	8.23		
PCB-150	ND	4.88			PCB-200	ND	5.68		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10146-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-19-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	5.44		
PCB-202	ND	5.48		
PCB-203	-	-	C196	196
PCB-204	ND	5.46		
PCB-205	ND	2.99		
PCB-206	ND	3.85		
PCB-207	ND	2.75		
PCB-208	ND	2.45		
PCB-209	ND	3.67		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	91.1	5.00 - 145	
13C-PCB-3	87.8	5.00 - 145	
13C-PCB-4	95.5	5.00 - 145	
13C-PCB-15	88.8	5.00 - 145	
13C-PCB-19	98.2	5.00 - 145	
13C-PCB-37	81.7	5.00 - 145	
13C-PCB-54	101	5.00 - 145	
13C-PCB-77	92.3	10.0 - 145	
13C-PCB-81	93.1	10.0 - 145	
13C-PCB-104	96.7	10.0 - 145	
13C-PCB-105	95.2	10.0 - 145	
13C-PCB-114	98.2	10.0 - 145	
13C-PCB-118	101	10.0 - 145	
13C-PCB-123	90.8	10.0 - 145	
13C-PCB-126	97.2	10.0 - 145	
13C-PCB-155	94.8	10.0 - 145	
13C-PCB-156	95.5	10.0 - 145	
13C-PCB-157	102	10.0 - 145	
13C-PCB-167	98.2	10.0 - 145	
13C-PCB-169	101	10.0 - 145	
13C-PCB-188	93.3	10.0 - 145	
13C-PCB-189	105	10.0 - 145	
13C-PCB-202	101	10.0 - 145	
13C-PCB-205	94.9	10.0 - 145	
13C-PCB-206	101	10.0 - 145	
13C-PCB-208	94.0	10.0 - 145	
13C-PCB-209	94.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	109	5.00 - 145	
13C-PCB-111	98.6	10.0 - 145	
13C-PCB-178	108	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: 9/23/2016

Reviewed By: _____

Date: 9/23/2016

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EPA Method 1668
PCBs

FAL ID: 10146-001-OPR
Client ID: OPR
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: ng/ml

Acquired: 09-19-2016

Compound	% Recovery	QC Limits	Qual
PCB-1	104	60.0 - 135	
PCB-3	91.6	60.0 - 135	
PCB-4	104	60.0 - 135	
PCB-15	88.2	60.0 - 135	
PCB-19	104	60.0 - 135	
PCB-37	96.6	60.0 - 135	
PCB-54	102	60.0 - 135	
PCB-77	104	60.0 - 135	
PCB-81	101	60.0 - 135	
PCB-104	103	60.0 - 135	
PCB-105	99.2	60.0 - 135	
PCB-114	106	60.0 - 135	
PCB-118	110	60.0 - 135	
PCB-123	85.4	60.0 - 135	
PCB-126	98.2	60.0 - 135	
PCB-155	104	60.0 - 135	
PCB-156	99.8	60.0 - 135	
PCB-157	96.2	60.0 - 135	
PCB-167	105	60.0 - 135	
PCB-169	104	60.0 - 135	
PCB-188	103	60.0 - 135	
PCB-189	103	60.0 - 135	
PCB-202	109	60.0 - 135	
PCB-205	104	60.0 - 135	
PCB-206	104	60.0 - 135	
PCB-208	100	60.0 - 135	
PCB-209	100	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	91.5	15.0 - 145	
13C-PCB-3	91.2	15.0 - 145	
13C-PCB-4	94.9	15.0 - 145	
13C-PCB-15	86.8	15.0 - 145	
13C-PCB-19	91.5	15.0 - 145	
13C-PCB-37	85.3	15.0 - 145	
13C-PCB-54	101	15.0 - 145	
13C-PCB-77	94.9	40.0 - 145	
13C-PCB-81	92.7	40.0 - 145	
13C-PCB-104	94.9	40.0 - 145	
13C-PCB-105	92.4	40.0 - 145	
13C-PCB-114	95.0	40.0 - 145	
13C-PCB-118	96.7	40.0 - 145	
13C-PCB-123	91.7	40.0 - 145	
13C-PCB-126	91.4	40.0 - 145	
13C-PCB-155	93.1	40.0 - 145	
13C-PCB-156	90.6	40.0 - 145	
13C-PCB-157	94.4	40.0 - 145	
13C-PCB-167	93.4	40.0 - 145	
13C-PCB-169	92.2	40.0 - 145	
13C-PCB-188	91.2	40.0 - 145	
13C-PCB-189	95.6	40.0 - 145	
13C-PCB-202	93.8	40.0 - 145	
13C-PCB-205	86.9	40.0 - 145	
13C-PCB-206	93.0	40.0 - 145	
13C-PCB-208	94.8	40.0 - 145	
13C-PCB-209	89.0	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	105	15.0 - 145	
13C-PCB-111	94.7	40.0 - 145	
13C-PCB-178	101	40.0 - 145	

Analyst: _____

Date: 9/23/2016

Reviewed By: _____

Date: 9/23/2016

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EPA Method 1668
PCBs

FAL ID: 10146-001-SA
Client ID: LDW-BA-SC-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-19-2016
Total Conc: 54000

Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	6.46		
PCB-2	ND	11.3		
PCB-3	ND	10.9		
PCB-4	40.6	-		
PCB-5	83.6	-		
PCB-6	132	-		
PCB-7	18.3	-		
PCB-8	270	-		
PCB-9	20.5	-		
PCB-10	30.1	-		
PCB-11	ND	12.3		
PCB-12	41.8	-		
PCB-13	ND	12.1		
PCB-14	98.2	-		
PCB-15	58.5	-		
PCB-16	476	-		
PCB-17	549	-		
PCB-18	1260	-		
PCB-19	142	-		
PCB-20	523	-	C	21/33
PCB-21	-	-	C020	20/33
PCB-22	290	-		
PCB-23	ND	12.0		
PCB-24	51.8	-		
PCB-25	144	-		
PCB-26	253	-		
PCB-27	71.3	-		
PCB-28	1030	-		
PCB-29	ND	13.8		
PCB-30	ND	4.78		
PCB-31	773	-		
PCB-32	393	-		
PCB-33	-	-	C020	20/21
PCB-34	ND	17.6		
PCB-35	ND	17.9		
PCB-36	878	-		
PCB-37	91.7	-		
PCB-38	ND	13.9		
PCB-39	ND	15.8		
PCB-40	196	-		
PCB-41	834	-	C	64/71/72
PCB-42	377	-	C	59
PCB-43	1100	-	C	49
PCB-44	998	-		
PCB-45	253	-		
PCB-46	105	-		
PCB-47	330	-		
PCB-48	260	-	C	75
PCB-49	-	-	C043	43
PCB-50	ND	8.91		

Compound	Conc	DL	Qual	Coeluters
PCB-51	89.8	-		
PCB-52	1410	-	C	69
PCB-53	295	-		
PCB-54	ND	6.54		
PCB-55	59.9	-		
PCB-56	375	-	C	60
PCB-57	ND	7.24		
PCB-58	ND	7.40		
PCB-59	-	-	C042	42
PCB-60	-	-	C056	56
PCB-61	744	-	C	70
PCB-62	ND	7.53		
PCB-63	31.0	-		
PCB-64	-	-	C041	41/71/72
PCB-65	ND	7.35		
PCB-66	717	-	C	76
PCB-67	23.9	-		
PCB-68	20.1	-		
PCB-69	-	-	C052	52
PCB-70	-	-	C061	61
PCB-71	-	-	C041	41/64/72
PCB-72	-	-	C041	41/64/71
PCB-73	ND	7.27		
PCB-74	319	-		
PCB-75	-	-	C048	48
PCB-76	-	-	C066	66
PCB-77	44.7	-		
PCB-78	1830	-		
PCB-79	ND	16.8		
PCB-80	ND	6.26		
PCB-81	58.6	-		
PCB-82	106	-		
PCB-83	52.3	-	C	112
PCB-84	629	-	C	92
PCB-85	174	-	C	116
PCB-86	ND	17.2		
PCB-87	386	-	C	117/125
PCB-88	ND	7.64	C	91
PCB-89	16.5	-	J	
PCB-90	1310	-	C	101
PCB-91	-	-	C088	88
PCB-92	-	-	C084	84
PCB-93	ND	7.92		
PCB-94	ND	8.15		
PCB-95	1560	-		
PCB-96	20.9	-		
PCB-97	276	-		
PCB-98	ND	6.33	C	102
PCB-99	510	-		
PCB-100	20.2	-		

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EPA Method 1668
PCBs

FAL ID: 10146-001-SA
Client ID: LDW-BA-SC-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-19-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	306	-		
PCB-102	-	-	C098	98	PCB-152	ND	5.58		
PCB-103	40.9	-			PCB-153	944	-		
PCB-104	1960	-			PCB-154	44.7	-		
PCB-105	199	-			PCB-155	3060	-		
PCB-106	574	-	C	118	PCB-156	44.0	-		
PCB-107	45.6	-	C	108	PCB-157	ND	6.95		
PCB-108	-	-	C107	107	PCB-158	80.3	-	C	160
PCB-109	ND	12.3			PCB-159	14.0	-	J	
PCB-110	986	-			PCB-160	-	-	C158	158
PCB-111	121	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	13.4			PCB-163	-	-	C138	138/164
PCB-114	20.5	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	7.10		
PCB-117	-	-	C087	87/125	PCB-167	21.7	-		
PCB-118	-	-	C106	106	PCB-168	ND	6.67		
PCB-119	34.9	-			PCB-169	ND	7.16		
PCB-120	ND	12.2			PCB-170	142	-		
PCB-121	2790	-			PCB-171	50.7	-		
PCB-122	ND	6.31			PCB-172	106	-		
PCB-123	11.0	-	J		PCB-173	ND	7.01		
PCB-124	31.5	-			PCB-174	173	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	5.94		
PCB-126	ND	9.30			PCB-176	28.6	-		
PCB-127	ND	7.37			PCB-177	120	-		
PCB-128	97.4	-	C	162	PCB-178	46.7	-		
PCB-129	37.7	-			PCB-179	109	-		
PCB-130	48.1	-			PCB-180	301	-		
PCB-131	24.2	-	C	133	PCB-181	ND	6.35		
PCB-132	254	-	C	161	PCB-182	259	-	C	187
PCB-133	-	-	C131	131	PCB-183	114	-		
PCB-134	50.3	-	C	143	PCB-184	3890	-		
PCB-135	173	-			PCB-185	22.8	-		
PCB-136	255	-			PCB-186	ND	4.34		
PCB-137	30.3	-			PCB-187	-	-	C182	182
PCB-138	707	-	C	163/164	PCB-188	ND	4.51		
PCB-139	944	-	C	149	PCB-189	ND	4.46		
PCB-140	ND	8.14			PCB-190	34.5	-		
PCB-141	148	-			PCB-191	ND	5.01		
PCB-142	2850	-			PCB-192	2700	-		
PCB-143	-	-	C134	134	PCB-193	26.6	-		
PCB-144	48.7	-			PCB-194	37.5	-		
PCB-145	ND	5.54			PCB-195	18.6	-	J	
PCB-146	148	-	C	165	PCB-196	58.5	-	C	203
PCB-147	18.8	-	J		PCB-197	47.9	-		
PCB-148	ND	7.10			PCB-198	ND	8.68		
PCB-149	-	-	C139	139	PCB-199	65.1	-		
PCB-150	ND	5.48			PCB-200	ND	6.03		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10146-001-SA
Client ID: LDW-BA-SC-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-19-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	5.78		
PCB-202	ND	5.82		
PCB-203	-	-	C196	196
PCB-204	5220	-		
PCB-205	ND	3.68		
PCB-206	ND	9.72		
PCB-207	27.8	-		
PCB-208	ND	6.14		
PCB-209	24.8	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	93.6	5.00 - 145	
13C-PCB-3	92.5	5.00 - 145	
13C-PCB-4	90.6	5.00 - 145	
13C-PCB-15	85.6	5.00 - 145	
13C-PCB-19	94.7	5.00 - 145	
13C-PCB-37	86.7	5.00 - 145	
13C-PCB-54	94.9	5.00 - 145	
13C-PCB-77	96.0	10.0 - 145	
13C-PCB-81	95.9	10.0 - 145	
13C-PCB-104	94.9	10.0 - 145	
13C-PCB-105	92.6	10.0 - 145	
13C-PCB-114	97.1	10.0 - 145	
13C-PCB-118	95.1	10.0 - 145	
13C-PCB-123	88.3	10.0 - 145	
13C-PCB-126	95.7	10.0 - 145	
13C-PCB-155	89.9	10.0 - 145	
13C-PCB-156	91.8	10.0 - 145	
13C-PCB-157	97.1	10.0 - 145	
13C-PCB-167	95.2	10.0 - 145	
13C-PCB-169	97.1	10.0 - 145	
13C-PCB-188	88.6	10.0 - 145	
13C-PCB-189	99.7	10.0 - 145	
13C-PCB-202	95.2	10.0 - 145	
13C-PCB-205	93.4	10.0 - 145	
13C-PCB-206	98.0	10.0 - 145	
13C-PCB-208	88.3	10.0 - 145	
13C-PCB-209	93.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	104	5.00 - 145	
13C-PCB-111	99.1	10.0 - 145	
13C-PCB-178	107	10.0 - 145	

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

Analyst: _____

Date: 9/23/16

Reviewed By: _____

Date: 9/23/16

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10146-002-SA
Client ID: LDW-BA-SC-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-21-16
GC Column: DB1
Units: pg/sample

Acquired: 09-21-2016
Total Conc: 76500

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	9.56			PCB-51	178	-		
PCB-2	ND	8.10			PCB-52	2590	-	C	69
PCB-3	ND	8.13			PCB-53	529	-		
PCB-4	213	-			PCB-54	17.1	-	J	
PCB-5	166	-			PCB-55	60.1	-		
PCB-6	167	-			PCB-56	691	-	C	60
PCB-7	32.2	-			PCB-57	24.6	-		
PCB-8	420	-			PCB-58	ND	14.7		
PCB-9	31.4	-			PCB-59	-	-	C042	42
PCB-10	35.1	-			PCB-60	-	-	C056	56
PCB-11	ND	10.5			PCB-61	1410	-	C	70
PCB-12	60.5	-			PCB-62	ND	14.6		
PCB-13	ND	11.6			PCB-63	67.2	-		
PCB-14	142	-			PCB-64	-	-	C041	41/71/72
PCB-15	76.8	-			PCB-65	ND	13.9		
PCB-16	569	-			PCB-66	1280	-	C	76
PCB-17	978	-			PCB-67	55.5	-		
PCB-18	2000	-			PCB-68	32.6	-		
PCB-19	231	-			PCB-69	-	-	C052	52
PCB-20	890	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	464	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	12.7			PCB-73	ND	14.5		
PCB-24	68.9	-			PCB-74	595	-		
PCB-25	171	-			PCB-75	-	-	C048	48
PCB-26	292	-			PCB-76	-	-	C066	66
PCB-27	136	-			PCB-77	70.6	-		
PCB-28	1450	-			PCB-78	2060	-		
PCB-29	ND	15.0			PCB-79	ND	14.3		
PCB-30	ND	9.86			PCB-80	ND	12.8		
PCB-31	1110	-			PCB-81	73.3	-		
PCB-32	649	-			PCB-82	197	-		
PCB-33	-	-	C020	20/21	PCB-83	93.4	-	C	112
PCB-34	ND	15.7			PCB-84	1020	-	C	92
PCB-35	ND	16.4			PCB-85	252	-	C	116
PCB-36	948	-			PCB-86	ND	12.0		
PCB-37	121	-			PCB-87	652	-	C	117/125
PCB-38	ND	15.9			PCB-88	415	-	C	91
PCB-39	ND	15.5			PCB-89	41.2	-		
PCB-40	373	-			PCB-90	2150	-	C	101
PCB-41	1650	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	765	-	C	59	PCB-92	-	-	C084	84
PCB-43	2000	-	C	49	PCB-93	ND	13.8		
PCB-44	1950	-			PCB-94	24.9	-		
PCB-45	505	-			PCB-95	2720	-		
PCB-46	222	-			PCB-96	47.6	-		
PCB-47	612	-			PCB-97	452	-		
PCB-48	557	-	C	75	PCB-98	ND	11.4	C	102
PCB-49	-	-	C043	43	PCB-99	812	-		
PCB-50	23.2	-			PCB-100	40.7	-		

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EPA Method 1668
PCBs

FAL ID: 10146-002-SA
Client ID: LDW-BA-SC-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-21-16
GC Column: DB1
Units: pg/sample

Acquired: 09-21-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	496	-		
PCB-102	-	-	C098	98	PCB-152	ND	8.08		
PCB-103	65.5	-			PCB-153	1420	-		
PCB-104	2020	-			PCB-154	57.2	-		
PCB-105	356	-			PCB-155	3280	-		
PCB-106	924	-	C	118	PCB-156	82.7	-		
PCB-107	85.9	-	C	108	PCB-157	21.7	-		
PCB-108	-	-	C107	107	PCB-158	139	-	C	160
PCB-109	ND	9.78			PCB-159	ND	12.0		
PCB-110	1520	-			PCB-160	-	-	C158	158
PCB-111	37.9	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	10.5			PCB-163	-	-	C138	138/164
PCB-114	21.1	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	12.8		
PCB-117	-	-	C087	87/125	PCB-167	37.0	-		
PCB-118	-	-	C106	106	PCB-168	ND	12.1		
PCB-119	56.9	-			PCB-169	ND	14.7		
PCB-120	ND	9.75			PCB-170	206	-		
PCB-121	2900	-			PCB-171	83.0	-		
PCB-122	31.0	-			PCB-172	146	-		
PCB-123	20.4	-			PCB-173	ND	15.3		
PCB-124	47.7	-			PCB-174	296	-		
PCB-125	-	-	C087	87/117	PCB-175	12.4	-	J	
PCB-126	ND	13.0			PCB-176	63.1	-		
PCB-127	ND	9.22			PCB-177	179	-		
PCB-128	155	-	C	162	PCB-178	80.8	-		
PCB-129	54.5	-			PCB-179	183	-		
PCB-130	90.5	-			PCB-180	425	-		
PCB-131	43.7	-	C	133	PCB-181	ND	13.7		
PCB-132	441	-	C	161	PCB-182	388	-	C	187
PCB-133	-	-	C131	131	PCB-183	178	-		
PCB-134	95.6	-	C	143	PCB-184	4150	-		
PCB-135	277	-			PCB-185	38.3	-		
PCB-136	408	-			PCB-186	ND	10.0		
PCB-137	43.6	-			PCB-187	-	-	C182	182
PCB-138	1110	-	C	163/164	PCB-188	24.8	-		
PCB-139	1540	-	C	149	PCB-189	ND	10.9		
PCB-140	ND	15.1			PCB-190	52.5	-		
PCB-141	241	-			PCB-191	ND	11.0		
PCB-142	3070	-			PCB-192	2930	-		
PCB-143	-	-	C134	134	PCB-193	40.2	-		
PCB-144	92.4	-			PCB-194	66.1	-		
PCB-145	ND	8.25			PCB-195	35.2	-		
PCB-146	247	-	C	165	PCB-196	97.9	-	C	203
PCB-147	32.6	-			PCB-197	55.3	-		
PCB-148	503	-			PCB-198	ND	10.8		
PCB-149	-	-	C139	139	PCB-199	85.7	-		
PCB-150	ND	8.04			PCB-200	21.4	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10146-002-SA
Client ID: LDW-BA-SC-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-21-16
GC Column: DB1
Units: pg/sample

Acquired: 09-21-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	7.09		
PCB-202	26.5	-		
PCB-203	-	-	C196	196
PCB-204	5710	-		
PCB-205	12.2	-	J	
PCB-206	26.1	-		
PCB-207	34.3	-		
PCB-208	11.4	-	J	
PCB-209	39.4	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	92.0	5.00 - 145	
13C-PCB-3	86.9	5.00 - 145	
13C-PCB-4	95.3	5.00 - 145	
13C-PCB-15	89.0	5.00 - 145	
13C-PCB-19	99.5	5.00 - 145	
13C-PCB-37	96.2	5.00 - 145	
13C-PCB-54	87.1	5.00 - 145	
13C-PCB-77	90.9	10.0 - 145	
13C-PCB-81	90.7	10.0 - 145	
13C-PCB-104	90.5	10.0 - 145	
13C-PCB-105	93.9	10.0 - 145	
13C-PCB-114	92.7	10.0 - 145	
13C-PCB-118	95.0	10.0 - 145	
13C-PCB-123	87.1	10.0 - 145	
13C-PCB-126	89.0	10.0 - 145	
13C-PCB-155	90.5	10.0 - 145	
13C-PCB-156	92.9	10.0 - 145	
13C-PCB-157	97.4	10.0 - 145	
13C-PCB-167	90.4	10.0 - 145	
13C-PCB-169	95.7	10.0 - 145	
13C-PCB-188	86.6	10.0 - 145	
13C-PCB-189	96.3	10.0 - 145	
13C-PCB-202	90.0	10.0 - 145	
13C-PCB-205	89.7	10.0 - 145	
13C-PCB-206	91.7	10.0 - 145	
13C-PCB-208	92.4	10.0 - 145	
13C-PCB-209	85.0	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	90.7	5.00 - 145	
13C-PCB-111	99.5	10.0 - 145	
13C-PCB-178	101	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: 9/23/2016

Reviewed By: _____

Date: 9/23/2016

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EPA Method 1668
PCBs

FAL ID: 10146-003-SA
Client ID: LDW-BA-SC-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-19-2016
Total Conc: 81900

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	22.0	-			PCB-51	201	-		
PCB-2	ND	8.44			PCB-52	2530	-	C	69
PCB-3	ND	7.59			PCB-53	667	-		
PCB-4	82.2	-			PCB-54	13.8	-	J	
PCB-5	223	-			PCB-55	69.3	-		
PCB-6	242	-			PCB-56	795	-	C	60
PCB-7	45.5	-			PCB-57	ND	11.1		
PCB-8	931	-			PCB-58	ND	11.4		
PCB-9	62.6	-			PCB-59	-	-	C042	42
PCB-10	59.9	-			PCB-60	-	-	C056	56
PCB-11	21.5	-			PCB-61	1440	-	C	70
PCB-12	102	-			PCB-62	ND	11.6		
PCB-13	ND	9.01			PCB-63	63.2	-		
PCB-14	303	-			PCB-64	-	-	C041	41/71/72
PCB-15	112	-			PCB-65	ND	11.3		
PCB-16	1100	-			PCB-66	1360	-	C	76
PCB-17	1610	-			PCB-67	64.5	-		
PCB-18	3730	-			PCB-68	26.7	-		
PCB-19	410	-			PCB-69	-	-	C052	52
PCB-20	1570	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	795	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	8.89			PCB-73	ND	11.2		
PCB-24	89.8	-			PCB-74	648	-		
PCB-25	239	-			PCB-75	-	-	C048	48
PCB-26	487	-			PCB-76	-	-	C066	66
PCB-27	235	-			PCB-77	60.9	-		
PCB-28	2370	-			PCB-78	2070	-		
PCB-29	24.4	-			PCB-79	19.4	-	J	
PCB-30	ND	3.61			PCB-80	ND	9.63		
PCB-31	1930	-			PCB-81	67.9	-		
PCB-32	1030	-			PCB-82	174	-		
PCB-33	-	-	C020	20/21	PCB-83	79.8	-	C	112
PCB-34	24.5	-			PCB-84	889	-	C	92
PCB-35	ND	13.3			PCB-85	258	-	C	116
PCB-36	1410	-			PCB-86	ND	13.7		
PCB-37	216	-			PCB-87	555	-	C	117/125
PCB-38	ND	10.4			PCB-88	ND	6.68	C	91
PCB-39	ND	11.8			PCB-89	36.3	-		
PCB-40	425	-			PCB-90	1820	-	C	101
PCB-41	1810	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	797	-	C	59	PCB-92	-	-	C084	84
PCB-43	2100	-	C	49	PCB-93	ND	6.92		
PCB-44	2100	-			PCB-94	16.7	-	J	
PCB-45	672	-			PCB-95	2250	-		
PCB-46	275	-			PCB-96	32.5	-		
PCB-47	582	-			PCB-97	398	-		
PCB-48	585	-	C	75	PCB-98	ND	5.53	C	102
PCB-49	-	-	C043	43	PCB-99	705	-		
PCB-50	21.2	-			PCB-100	30.1	-		

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EPA Method 1668
PCBs

FAL ID: 10146-003-SA
Client ID: LDW-BA-SC-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-19-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	395	-		
PCB-102	-	-	C098	98	PCB-152	ND	5.58		
PCB-103	49.3	-			PCB-153	1200	-		
PCB-104	2190	-			PCB-154	54.8	-		
PCB-105	307	-			PCB-155	3330	-		
PCB-106	810	-	C	118	PCB-156	63.5	-		
PCB-107	61.1	-	C	108	PCB-157	13.0	-	J	
PCB-108	-	-	C107	107	PCB-158	107	-	C	160
PCB-109	ND	9.82			PCB-159	14.7	-	J	
PCB-110	1380	-			PCB-160	-	-	C158	158
PCB-111	22.4	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	10.6			PCB-163	-	-	C138	138/164
PCB-114	25.8	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	5.35		
PCB-117	-	-	C087	87/125	PCB-167	32.6	-		
PCB-118	-	-	C106	106	PCB-168	ND	5.03		
PCB-119	49.3	-			PCB-169	ND	5.78		
PCB-120	ND	9.74			PCB-170	165	-		
PCB-121	3170	-			PCB-171	68.0	-		
PCB-122	12.5	-	J		PCB-172	127	-		
PCB-123	16.1	-	J		PCB-173	ND	6.67		
PCB-124	45.3	-			PCB-174	236	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	5.66		
PCB-126	ND	7.59			PCB-176	46.0	-		
PCB-127	ND	5.97			PCB-177	167	-		
PCB-128	118	-	C	162	PCB-178	65.2	-		
PCB-129	44.0	-			PCB-179	145	-		
PCB-130	61.6	-			PCB-180	372	-		
PCB-131	26.2	-	C	133	PCB-181	ND	6.05		
PCB-132	325	-	C	161	PCB-182	326	-	C	187
PCB-133	-	-	C131	131	PCB-183	154	-		
PCB-134	70.2	-	C	143	PCB-184	4080	-		
PCB-135	220	-			PCB-185	31.4	-		
PCB-136	315	-			PCB-186	ND	4.14		
PCB-137	36.4	-			PCB-187	-	-	C182	182
PCB-138	916	-	C	163/164	PCB-188	ND	4.17		
PCB-139	1210	-	C	149	PCB-189	ND	4.40		
PCB-140	ND	6.13			PCB-190	39.8	-		
PCB-141	195	-			PCB-191	ND	4.77		
PCB-142	2940	-			PCB-192	3080	-		
PCB-143	-	-	C134	134	PCB-193	33.7	-		
PCB-144	69.0	-			PCB-194	46.1	-		
PCB-145	ND	5.54			PCB-195	25.0	-		
PCB-146	182	-	C	165	PCB-196	83.6	-	C	203
PCB-147	25.9	-			PCB-197	48.8	-		
PCB-148	ND	7.10			PCB-198	ND	8.84		
PCB-149	-	-	C139	139	PCB-199	78.4	-		
PCB-150	ND	5.48			PCB-200	19.0	-	J	

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10146-003-SA
Client ID: LDW-BA-SC-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-19-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	5.89		
PCB-202	18.3	-	J	
PCB-203	-	-	C196	196
PCB-204	6070	-		
PCB-205	ND	5.13		
PCB-206	11.9	-	J	
PCB-207	26.5	-		
PCB-208	ND	3.95		
PCB-209	26.8	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	87.8	5.00 - 145	
13C-PCB-3	92.6	5.00 - 145	
13C-PCB-4	89.0	5.00 - 145	
13C-PCB-15	86.4	5.00 - 145	
13C-PCB-19	90.0	5.00 - 145	
13C-PCB-37	87.4	5.00 - 145	
13C-PCB-54	91.0	5.00 - 145	
13C-PCB-77	95.8	10.0 - 145	
13C-PCB-81	97.3	10.0 - 145	
13C-PCB-104	91.2	10.0 - 145	
13C-PCB-105	93.1	10.0 - 145	
13C-PCB-114	96.7	10.0 - 145	
13C-PCB-118	97.5	10.0 - 145	
13C-PCB-123	87.8	10.0 - 145	
13C-PCB-126	96.3	10.0 - 145	
13C-PCB-155	88.8	10.0 - 145	
13C-PCB-156	94.8	10.0 - 145	
13C-PCB-157	100	10.0 - 145	
13C-PCB-167	96.0	10.0 - 145	
13C-PCB-169	101	10.0 - 145	
13C-PCB-188	88.2	10.0 - 145	
13C-PCB-189	104	10.0 - 145	
13C-PCB-202	92.2	10.0 - 145	
13C-PCB-205	92.3	10.0 - 145	
13C-PCB-206	95.9	10.0 - 145	
13C-PCB-208	87.3	10.0 - 145	
13C-PCB-209	91.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	101	5.00 - 145	
13C-PCB-111	97.0	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: 9/23/16

Reviewed By: _____

Date: 9/23/16

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EPA Method 1668
PCBs

FAL ID: 10146-004-SA
Client ID: LDW-BA-SC-ENR-CA-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-19-2016
Total Conc: 42300

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	3.85			PCB-51	57.6	-		
PCB-2	ND	6.65			PCB-52	881	-	C	69
PCB-3	ND	6.40			PCB-53	172	-		
PCB-4	35.5	-			PCB-54	ND	3.84		
PCB-5	29.8	-			PCB-55	50.7	-		
PCB-6	39.9	-			PCB-56	220	-	C	60
PCB-7	ND	8.66			PCB-57	ND	4.26		
PCB-8	74.1	-			PCB-58	ND	4.35		
PCB-9	ND	9.64			PCB-59	-	-	C042	42
PCB-10	ND	9.85			PCB-60	-	-	C056	56
PCB-11	ND	11.4			PCB-61	484	-	C	70
PCB-12	ND	10.1			PCB-62	ND	4.43		
PCB-13	ND	11.3			PCB-63	19.4	-	J	
PCB-14	54.5	-			PCB-64	-	-	C041	41/71/72
PCB-15	25.2	-			PCB-65	ND	4.32		
PCB-16	117	-			PCB-66	492	-	C	76
PCB-17	207	-			PCB-67	16.7	-	J	
PCB-18	450	-			PCB-68	12.8	-	J	
PCB-19	55.0	-			PCB-69	-	-	C052	52
PCB-20	207	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	136	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	6.25			PCB-73	ND	4.27		
PCB-24	13.1	-	J		PCB-74	207	-		
PCB-25	64.2	-			PCB-75	-	-	C048	48
PCB-26	117	-			PCB-76	-	-	C066	66
PCB-27	45.7	-			PCB-77	28.9	-		
PCB-28	477	-			PCB-78	1560	-		
PCB-29	ND	7.20			PCB-79	ND	10.0		
PCB-30	ND	4.40			PCB-80	ND	3.68		
PCB-31	346	-			PCB-81	31.9	-		
PCB-32	166	-			PCB-82	78.6	-		
PCB-33	-	-	C020	20/21	PCB-83	44.6	-	C	112
PCB-34	ND	9.21			PCB-84	461	-	C	92
PCB-35	ND	9.37			PCB-85	124	-	C	116
PCB-36	737	-			PCB-86	ND	13.0		
PCB-37	50.9	-			PCB-87	271	-	C	117/125
PCB-38	ND	7.28			PCB-88	ND	7.52	C	91
PCB-39	ND	8.27			PCB-89	12.0	-	J	
PCB-40	111	-			PCB-90	963	-	C	101
PCB-41	496	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	207	-	C	59	PCB-92	-	-	C084	84
PCB-43	702	-	C	49	PCB-93	ND	7.79		
PCB-44	561	-			PCB-94	ND	8.02		
PCB-45	124	-			PCB-95	1200	-		
PCB-46	57.3	-			PCB-96	14.1	-	J	
PCB-47	213	-			PCB-97	205	-		
PCB-48	136	-	C	75	PCB-98	ND	6.23	C	102
PCB-49	-	-	C043	43	PCB-99	398	-		
PCB-50	ND	5.23			PCB-100	22.5	-		

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EPA Method 1668
PCBs

FAL ID: 10146-004-SA
Client ID: LDW-BA-SC-ENR-CA-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-19-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	234	-		
PCB-102	-	-	C098	98	PCB-152	ND	5.36		
PCB-103	29.2	-			PCB-153	756	-		
PCB-104	1850	-			PCB-154	45.6	-		
PCB-105	166	-			PCB-155	3090	-		
PCB-106	458	-	C	118	PCB-156	34.4	-		
PCB-107	32.7	-	C	108	PCB-157	ND	6.17		
PCB-108	-	-	C107	107	PCB-158	72.2	-	C	160
PCB-109	ND	9.29			PCB-159	10.5	-	J	
PCB-110	703	-			PCB-160	-	-	C158	158
PCB-111	12.5	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	10.1			PCB-163	-	-	C138	138/164
PCB-114	12.4	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	6.01		
PCB-117	-	-	C087	87/125	PCB-167	17.5	-	J	
PCB-118	-	-	C106	106	PCB-168	ND	5.65		
PCB-119	28.4	-			PCB-169	ND	6.58		
PCB-120	ND	9.21			PCB-170	117	-		
PCB-121	2680	-			PCB-171	36.8	-		
PCB-122	ND	4.51			PCB-172	98.1	-		
PCB-123	8.19	-	J		PCB-173	ND	6.11		
PCB-124	17.6	-	J		PCB-174	136	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	5.19		
PCB-126	ND	6.80			PCB-176	24.2	-		
PCB-127	ND	5.27			PCB-177	94.7	-		
PCB-128	71.2	-	C	162	PCB-178	33.1	-		
PCB-129	27.3	-			PCB-179	90.3	-		
PCB-130	37.7	-			PCB-180	251	-		
PCB-131	21.1	-	C	133	PCB-181	ND	5.54		
PCB-132	213	-	C	161	PCB-182	207	-	C	187
PCB-133	-	-	C131	131	PCB-183	96.6	-		
PCB-134	38.8	-	C	143	PCB-184	3710	-		
PCB-135	121	-			PCB-185	21.1	-		
PCB-136	212	-			PCB-186	ND	3.79		
PCB-137	17.3	-	J		PCB-187	-	-	C182	182
PCB-138	557	-	C	163/164	PCB-188	ND	3.52		
PCB-139	769	-	C	149	PCB-189	ND	4.40		
PCB-140	ND	6.89			PCB-190	26.7	-		
PCB-141	110	-			PCB-191	ND	4.37		
PCB-142	2550	-			PCB-192	2590	-		
PCB-143	-	-	C134	134	PCB-193	19.3	-	J	
PCB-144	43.4	-			PCB-194	32.8	-		
PCB-145	ND	5.32			PCB-195	16.8	-	J	
PCB-146	132	-	C	165	PCB-196	50.3	-	C	203
PCB-147	19.2	-	J		PCB-197	46.5	-		
PCB-148	ND	6.81			PCB-198	ND	11.2		
PCB-149	-	-	C139	139	PCB-199	49.7	-		
PCB-150	ND	5.25			PCB-200	ND	7.76		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10146-004-SA
Client ID: LDW-BA-SC-ENR-CA-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-19-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	7.44		
PCB-202	ND	7.50		
PCB-203	-	-	C196	196
PCB-204	5180	-		
PCB-205	ND	4.57		
PCB-206	ND	8.41		
PCB-207	25.8	-		
PCB-208	ND	5.53		
PCB-209	26.3	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	93.2	5.00 - 145	
13C-PCB-3	90.7	5.00 - 145	
13C-PCB-4	94.8	5.00 - 145	
13C-PCB-15	87.3	5.00 - 145	
13C-PCB-19	92.5	5.00 - 145	
13C-PCB-37	90.9	5.00 - 145	
13C-PCB-54	91.1	5.00 - 145	
13C-PCB-77	97.6	10.0 - 145	
13C-PCB-81	98.5	10.0 - 145	
13C-PCB-104	91.7	10.0 - 145	
13C-PCB-105	95.4	10.0 - 145	
13C-PCB-114	99.1	10.0 - 145	
13C-PCB-118	96.0	10.0 - 145	
13C-PCB-123	90.9	10.0 - 145	
13C-PCB-126	98.0	10.0 - 145	
13C-PCB-155	88.1	10.0 - 145	
13C-PCB-156	94.8	10.0 - 145	
13C-PCB-157	97.5	10.0 - 145	
13C-PCB-167	95.8	10.0 - 145	
13C-PCB-169	99.8	10.0 - 145	
13C-PCB-188	88.3	10.0 - 145	
13C-PCB-189	100	10.0 - 145	
13C-PCB-202	90.4	10.0 - 145	
13C-PCB-205	94.5	10.0 - 145	
13C-PCB-206	94.9	10.0 - 145	
13C-PCB-208	86.6	10.0 - 145	
13C-PCB-209	91.8	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	98.7	5.00 - 145	
13C-PCB-111	95.2	10.0 - 145	
13C-PCB-178	101	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: 9/23/16

Reviewed By: _____

Date: 9/23/16

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EPA Method 1668
PCBs

FAL ID: 10146-005-SA
Client ID: LDW-BA-SC-ENR-CB-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-21-16
GC Column: DB1
Units: pg/sample

Acquired: 09-21-2016
Total Conc: 44700

Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	6.92		
PCB-2	ND	9.73		
PCB-3	ND	9.95		
PCB-4	41.1	-		
PCB-5	57.7	-		
PCB-6	73.2	-		
PCB-7	ND	12.0		
PCB-8	74.3	-		
PCB-9	ND	15.5		
PCB-10	ND	13.9		
PCB-11	ND	15.5		
PCB-12	ND	14.1		
PCB-13	ND	17.1		
PCB-14	99.7	-		
PCB-15	ND	18.0		
PCB-16	116	-		
PCB-17	222	-		
PCB-18	471	-		
PCB-19	65.6	-		
PCB-20	217	-	C	21/33
PCB-21	-	-	C020	20/33
PCB-22	141	-		
PCB-23	ND	14.2		
PCB-24	27.7	-		
PCB-25	65.8	-		
PCB-26	107	-		
PCB-27	35.5	-		
PCB-28	475	-		
PCB-29	ND	16.8		
PCB-30	ND	10.1		
PCB-31	284	-		
PCB-32	169	-		
PCB-33	-	-	C020	20/21
PCB-34	ND	17.6		
PCB-35	ND	18.3		
PCB-36	824	-		
PCB-37	62.4	-		
PCB-38	ND	17.8		
PCB-39	ND	17.4		
PCB-40	122	-		
PCB-41	576	-	C	64/71/72
PCB-42	264	-	C	59
PCB-43	795	-	C	49
PCB-44	666	-		
PCB-45	150	-		
PCB-46	64.6	-		
PCB-47	236	-		
PCB-48	182	-	C	75
PCB-49	-	-	C043	43
PCB-50	ND	16.1		

Compound	Conc	DL	Qual	Coeluters
PCB-51	71.8	-		
PCB-52	1040	-	C	69
PCB-53	203	-		
PCB-54	ND	11.9		
PCB-55	42.4	-		
PCB-56	235	-	C	60
PCB-57	ND	14.3		
PCB-58	ND	13.7		
PCB-59	-	-	C042	42
PCB-60	-	-	C056	56
PCB-61	522	-	C	70
PCB-62	ND	13.6		
PCB-63	25.2	-		
PCB-64	-	-	C041	41/71/72
PCB-65	ND	12.9		
PCB-66	528	-	C	76
PCB-67	20.5	-		
PCB-68	ND	12.6		
PCB-69	-	-	C052	52
PCB-70	-	-	C061	61
PCB-71	-	-	C041	41/64/72
PCB-72	-	-	C041	41/64/71
PCB-73	ND	13.5		
PCB-74	226	-		
PCB-75	-	-	C048	48
PCB-76	-	-	C066	66
PCB-77	ND	19.9		
PCB-78	2030	-		
PCB-79	ND	17.1		
PCB-80	ND	11.9		
PCB-81	ND	16.0		
PCB-82	95.6	-		
PCB-83	41.2	-	C	112
PCB-84	474	-	C	92
PCB-85	112	-	C	116
PCB-86	ND	10.8		
PCB-87	287	-	C	117/125
PCB-88	269	-	C	91
PCB-89	13.4	-	J	
PCB-90	1000	-	C	101
PCB-91	-	-	C088	88
PCB-92	-	-	C084	84
PCB-93	ND	16.6		
PCB-94	ND	17.0		
PCB-95	1250	-		
PCB-96	19.2	-	J	
PCB-97	213	-		
PCB-98	ND	13.7	C	102
PCB-99	400	-		
PCB-100	28.7	-		

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EPA Method 1668
PCBs

FAL ID: 10146-005-SA
Client ID: LDW-BA-SC-ENR-CB-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-21-16
GC Column: DB1
Units: pg/sample

Acquired: 09-21-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	245	-		
PCB-102	-	-	C098	98	PCB-152	ND	6.28		
PCB-103	39.7	-			PCB-153	793	-		
PCB-104	1830	-			PCB-154	48.1	-		
PCB-105	173	-			PCB-155	2880	-		
PCB-106	463	-	C	118	PCB-156	37.9	-		
PCB-107	42.8	-	C	108	PCB-157	ND	10.4		
PCB-108	-	-	C107	107	PCB-158	72.1	-	C	160
PCB-109	ND	8.79			PCB-159	ND	10.5		
PCB-110	717	-			PCB-160	-	-	C158	158
PCB-111	15.4	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	9.41			PCB-163	-	-	C138	138/164
PCB-114	ND	12.3			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	11.1		
PCB-117	-	-	C087	87/125	PCB-167	ND	11.4		
PCB-118	-	-	C106	106	PCB-168	ND	10.5		
PCB-119	33.6	-			PCB-169	ND	12.6		
PCB-120	ND	8.76			PCB-170	111	-		
PCB-121	2630	-			PCB-171	50.7	-		
PCB-122	ND	12.2			PCB-172	118	-		
PCB-123	ND	10.4			PCB-173	ND	15.1		
PCB-124	22.5	-			PCB-174	149	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	13.2		
PCB-126	ND	17.7			PCB-176	33.7	-		
PCB-127	ND	13.4			PCB-177	103	-		
PCB-128	79.7	-	C	162	PCB-178	48.1	-		
PCB-129	28.6	-			PCB-179	101	-		
PCB-130	43.8	-			PCB-180	263	-		
PCB-131	21.5	-	C	133	PCB-181	ND	13.5		
PCB-132	211	-	C	161	PCB-182	222	-	C	187
PCB-133	-	-	C131	131	PCB-183	104	-		
PCB-134	46.1	-	C	143	PCB-184	3770	-		
PCB-135	140	-			PCB-185	ND	13.3		
PCB-136	204	-			PCB-186	ND	9.86		
PCB-137	25.4	-			PCB-187	-	-	C182	182
PCB-138	568	-	C	163/164	PCB-188	ND	10.4		
PCB-139	751	-	C	149	PCB-189	ND	10.1		
PCB-140	ND	13.1			PCB-190	26.3	-		
PCB-141	110	-			PCB-191	ND	10.8		
PCB-142	2820	-			PCB-192	2730	-		
PCB-143	-	-	C134	134	PCB-193	28.3	-		
PCB-144	108	-			PCB-194	36.7	-		
PCB-145	ND	6.41			PCB-195	15.6	-	J	
PCB-146	136	-	C	165	PCB-196	57.7	-	C	203
PCB-147	26.0	-			PCB-197	51.0	-		
PCB-148	ND	8.13			PCB-198	ND	11.7		
PCB-149	-	-	C139	139	PCB-199	53.0	-		
PCB-150	ND	6.24			PCB-200	ND	7.89		

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EPA Method 1668
PCBs

FAL ID: 10146-005-SA
Client ID: LDW-BA-SC-ENR-CB-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-21-16
GC Column: DB1
Units: pg/sample

Acquired: 09-21-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	7.71		
PCB-202	18.0	-	J	
PCB-203	-	-	C196	196
PCB-204	5300	-		
PCB-205	ND	6.20		
PCB-206	15.8	-	J	
PCB-207	26.7	-		
PCB-208	ND	3.45		
PCB-209	33.2	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	96.4	5.00 - 145	
13C-PCB-3	91.4	5.00 - 145	
13C-PCB-4	97.7	5.00 - 145	
13C-PCB-15	88.4	5.00 - 145	
13C-PCB-19	100	5.00 - 145	
13C-PCB-37	102	5.00 - 145	
13C-PCB-54	88.1	5.00 - 145	
13C-PCB-77	93.6	10.0 - 145	
13C-PCB-81	95.8	10.0 - 145	
13C-PCB-104	92.5	10.0 - 145	
13C-PCB-105	99.3	10.0 - 145	
13C-PCB-114	97.8	10.0 - 145	
13C-PCB-118	97.2	10.0 - 145	
13C-PCB-123	87.0	10.0 - 145	
13C-PCB-126	97.8	10.0 - 145	
13C-PCB-155	97.2	10.0 - 145	
13C-PCB-156	96.4	10.0 - 145	
13C-PCB-157	104	10.0 - 145	
13C-PCB-167	97.5	10.0 - 145	
13C-PCB-169	102	10.0 - 145	
13C-PCB-188	90.9	10.0 - 145	
13C-PCB-189	101	10.0 - 145	
13C-PCB-202	92.9	10.0 - 145	
13C-PCB-205	96.4	10.0 - 145	
13C-PCB-206	98.4	10.0 - 145	
13C-PCB-208	96.2	10.0 - 145	
13C-PCB-209	92.0	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	90.4	5.00 - 145	
13C-PCB-111	103	10.0 - 145	
13C-PCB-178	105	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: 9/23/2016

Reviewed By: _____

Date: 9/23/2016

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EPA Method 1668
PCBs

FAL ID: 10146-006-SA
Client ID: LDW-BA-SC-ENR-CC-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-19-2016
Total Conc: 34600

Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	5.77		
PCB-2	ND	10.0		
PCB-3	ND	9.58		
PCB-4	39.2	-		
PCB-5	31.1	-		
PCB-6	35.5	-		
PCB-7	ND	8.67		
PCB-8	37.5	-		
PCB-9	ND	9.66		
PCB-10	ND	9.87		
PCB-11	ND	11.4		
PCB-12	11.0	-	J	
PCB-13	ND	11.3		
PCB-14	29.8	-		
PCB-15	17.1	-	J	
PCB-16	134	-		
PCB-17	185	-		
PCB-18	382	-		
PCB-19	49.1	-		
PCB-20	179	-	C	21/33
PCB-21	-	-	C020	20/33
PCB-22	102	-		
PCB-23	ND	10.6		
PCB-24	33.7	-		
PCB-25	54.4	-		
PCB-26	88.0	-		
PCB-27	34.8	-		
PCB-28	375	-		
PCB-29	ND	12.2		
PCB-30	ND	3.74		
PCB-31	261	-		
PCB-32	117	-		
PCB-33	-	-	C020	20/21
PCB-34	ND	15.6		
PCB-35	ND	15.8		
PCB-36	561	-		
PCB-37	32.7	-		
PCB-38	ND	12.3		
PCB-39	ND	14.0		
PCB-40	87.0	-		
PCB-41	413	-	C	64/71/72
PCB-42	179	-	C	59
PCB-43	603	-	C	49
PCB-44	470	-		
PCB-45	111	-		
PCB-46	49.0	-		
PCB-47	175	-		
PCB-48	121	-	C	75
PCB-49	-	-	C043	43
PCB-50	ND	6.98		
PCB-51	49.7	-		
PCB-52	730	-	C	69
PCB-53	153	-		
PCB-54	ND	5.12		
PCB-55	30.4	-		
PCB-56	170	-	C	60
PCB-57	ND	5.67		
PCB-58	ND	5.80		
PCB-59	-	-	C042	42
PCB-60	-	-	C056	56
PCB-61	390	-	C	70
PCB-62	ND	5.90		
PCB-63	17.3	-	J	
PCB-64	-	-	C041	41/71/72
PCB-65	ND	5.75		
PCB-66	409	-	C	76
PCB-67	14.8	-	J	
PCB-68	13.4	-	J	
PCB-69	-	-	C052	52
PCB-70	-	-	C061	61
PCB-71	-	-	C041	41/64/72
PCB-72	-	-	C041	41/64/71
PCB-73	ND	5.69		
PCB-74	166	-		
PCB-75	-	-	C048	48
PCB-76	-	-	C066	66
PCB-77	28.1	-		
PCB-78	1160	-		
PCB-79	ND	18.8		
PCB-80	ND	4.90		
PCB-81	ND	17.2		
PCB-82	73.9	-		
PCB-83	35.7	-	C	112
PCB-84	389	-	C	92
PCB-85	104	-	C	116
PCB-86	ND	9.79		
PCB-87	250	-	C	117/125
PCB-88	ND	6.60	C	91
PCB-89	13.8	-	J	
PCB-90	838	-	C	101
PCB-91	-	-	C088	88
PCB-92	-	-	C084	84
PCB-93	ND	6.85		
PCB-94	ND	7.04		
PCB-95	995	-		
PCB-96	12.0	-	J	
PCB-97	178	-		
PCB-98	ND	5.47	C	102
PCB-99	343	-		
PCB-100	18.5	-	J	

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EPA Method 1668
PCBs

FAL ID: 10146-006-SA
Client ID: LDW-BA-SC-ENR-CC-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-19-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	181	-		
PCB-102	-	-	C098	98	PCB-152	ND	5.46		
PCB-103	24.4	-			PCB-153	625	-		
PCB-104	1290	-			PCB-154	35.3	-		
PCB-105	123	-			PCB-155	2240	-		
PCB-106	366	-	C	118	PCB-156	36.0	-		
PCB-107	28.7	-	C	108	PCB-157	ND	5.63		
PCB-108	-	-	C107	107	PCB-158	59.2	-	C	160
PCB-109	ND	7.01			PCB-159	ND	5.14		
PCB-110	646	-			PCB-160	-	-	C158	158
PCB-111	17.7	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	7.59			PCB-163	-	-	C138	138/164
PCB-114	11.2	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	5.60		
PCB-117	-	-	C087	87/125	PCB-167	17.0	-	J	
PCB-118	-	-	C106	106	PCB-168	ND	5.27		
PCB-119	28.0	-			PCB-169	ND	6.25		
PCB-120	ND	6.95			PCB-170	98.6	-		
PCB-121	2030	-			PCB-171	36.1	-		
PCB-122	ND	4.56			PCB-172	87.5	-		
PCB-123	10.9	-	J		PCB-173	ND	7.10		
PCB-124	17.9	-	J		PCB-174	125	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	6.02		
PCB-126	ND	6.80			PCB-176	24.3	-		
PCB-127	ND	5.32			PCB-177	85.3	-		
PCB-128	65.7	-	C	162	PCB-178	26.9	-		
PCB-129	24.7	-			PCB-179	72.8	-		
PCB-130	43.1	-			PCB-180	220	-		
PCB-131	16.8	-	C,J	133	PCB-181	ND	6.44		
PCB-132	183	-	C	161	PCB-182	180	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	82.9	-		
PCB-134	32.8	-	C	143	PCB-184	3110	-		
PCB-135	103	-			PCB-185	15.2	-	J	
PCB-136	167	-			PCB-186	ND	4.40		
PCB-137	18.4	-	J		PCB-187	-	-	C182	182
PCB-138	482	-	C	163/164	PCB-188	ND	4.14		
PCB-139	603	-	C	149	PCB-189	ND	5.03		
PCB-140	ND	6.42			PCB-190	23.1	-		
PCB-141	97.7	-			PCB-191	ND	5.08		
PCB-142	2010	-			PCB-192	2290	-		
PCB-143	-	-	C134	134	PCB-193	18.2	-	J	
PCB-144	35.8	-			PCB-194	25.3	-		
PCB-145	ND	5.42			PCB-195	16.1	-	J	
PCB-146	106	-	C	165	PCB-196	44.4	-	C	203
PCB-147	12.9	-	J		PCB-197	43.4	-		
PCB-148	ND	6.94			PCB-198	ND	9.88		
PCB-149	-	-	C139	139	PCB-199	48.5	-		
PCB-150	ND	5.36			PCB-200	ND	6.86		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10146-006-SA
Client ID: LDW-BA-SC-ENR-CC-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-19-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	6.58		
PCB-202	ND	6.62		
PCB-203	-	-	C196	196
PCB-204	4490	-		
PCB-205	ND	5.38		
PCB-206	9.41	-	J	
PCB-207	22.7	-		
PCB-208	ND	5.92		
PCB-209	22.8	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	87.2	5.00 - 145	
13C-PCB-3	88.4	5.00 - 145	
13C-PCB-4	94.4	5.00 - 145	
13C-PCB-15	89.7	5.00 - 145	
13C-PCB-19	102	5.00 - 145	
13C-PCB-37	75.9	5.00 - 145	
13C-PCB-54	91.3	5.00 - 145	
13C-PCB-77	95.3	10.0 - 145	
13C-PCB-81	95.2	10.0 - 145	
13C-PCB-104	97.4	10.0 - 145	
13C-PCB-105	92.8	10.0 - 145	
13C-PCB-114	95.7	10.0 - 145	
13C-PCB-118	94.3	10.0 - 145	
13C-PCB-123	86.3	10.0 - 145	
13C-PCB-126	96.3	10.0 - 145	
13C-PCB-155	92.9	10.0 - 145	
13C-PCB-156	97.4	10.0 - 145	
13C-PCB-157	102	10.0 - 145	
13C-PCB-167	99.4	10.0 - 145	
13C-PCB-169	102	10.0 - 145	
13C-PCB-188	92.2	10.0 - 145	
13C-PCB-189	107	10.0 - 145	
13C-PCB-202	97.0	10.0 - 145	
13C-PCB-205	96.4	10.0 - 145	
13C-PCB-206	105	10.0 - 145	
13C-PCB-208	89.3	10.0 - 145	
13C-PCB-209	101	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	84.1	5.00 - 145	
13C-PCB-111	100	10.0 - 145	
13C-PCB-178	109	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: 9/23/16

Reviewed By: _____

Date: 9/23/16

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EPA Method 1668
PCBs

FAL ID: 10146-007-SA
Client ID: LDW-BA-IN-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-21-16
GC Column: DB1
Units: pg/sample

Acquired: 09-21-2016
Total Conc: 429000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	52.4	-			PCB-51	816	-		
PCB-2	ND	9.23			PCB-52	49200	-	C	69
PCB-3	ND	9.44			PCB-53	3000	-		
PCB-4	452	-			PCB-54	46.5	-		
PCB-5	733	-			PCB-55	569	-		
PCB-6	1170	-			PCB-56	2200	-	C	60
PCB-7	116	-			PCB-57	718	-		
PCB-8	676	-			PCB-58	1480	-		
PCB-9	109	-			PCB-59	-	-	C042	42
PCB-10	89.4	-			PCB-60	-	-	C056	56
PCB-11	ND	10.8			PCB-61	7860	-	C	70
PCB-12	312	-			PCB-62	ND	12.5		
PCB-13	ND	11.9			PCB-63	620	-		
PCB-14	87.4	-			PCB-64	-	-	C041	41/71/72
PCB-15	236	-			PCB-65	ND	11.9		
PCB-16	2440	-			PCB-66	7140	-	C	76
PCB-17	4070	-			PCB-67	ND	12.3		
PCB-18	10600	-			PCB-68	292	-		
PCB-19	828	-			PCB-69	-	-	C052	52
PCB-20	3070	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	1430	-			PCB-72	-	-	C041	41/64/71
PCB-23	21.9	-			PCB-73	ND	12.4		
PCB-24	261	-			PCB-74	3030	-		
PCB-25	2800	-			PCB-75	-	-	C048	48
PCB-26	9770	-			PCB-76	-	-	C066	66
PCB-27	394	-			PCB-77	335	-		
PCB-28	4380	-			PCB-78	1060	-		
PCB-29	32.7	-			PCB-79	196	-		
PCB-30	ND	8.28			PCB-80	ND	11.0		
PCB-31	4810	-			PCB-81	364	-		
PCB-32	2450	-			PCB-82	2120	-		
PCB-33	-	-	C020	20/21	PCB-83	1660	-	C	112
PCB-34	101	-			PCB-84	15000	-	C	92
PCB-35	ND	13.3			PCB-85	2820	-	C	116
PCB-36	513	-			PCB-86	ND	18.5		
PCB-37	353	-			PCB-87	8760	-	C	117/125
PCB-38	ND	12.9			PCB-88	4640	-	C	91
PCB-39	ND	12.6			PCB-89	410	-		
PCB-40	2110	-			PCB-90	21100	-	C	101
PCB-41	10900	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	5910	-	C	59	PCB-92	-	-	C084	84
PCB-43	27300	-	C	49	PCB-93	ND	14.7		
PCB-44	22400	-			PCB-94	195	-		
PCB-45	2660	-			PCB-95	35100	-		
PCB-46	1200	-			PCB-96	313	-		
PCB-47	4840	-			PCB-97	5120	-		
PCB-48	2480	-	C	75	PCB-98	ND	12.2	C	102
PCB-49	-	-	C043	43	PCB-99	8920	-		
PCB-50	111	-			PCB-100	195	-		

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EPA Method 1668
PCBs

FAL ID: 10146-007-SA
Client ID: LDW-BA-IN-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-21-16
GC Column: DB1
Units: pg/sample

Acquired: 09-21-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	2390	-		
PCB-102	-	-	C098	98	PCB-152	27.6	-		
PCB-103	549	-			PCB-153	7370	-		
PCB-104	1290	-			PCB-154	209	-		
PCB-105	2850	-			PCB-155	2410	-		
PCB-106	9600	-	C	118	PCB-156	649	-		
PCB-107	837	-	C	108	PCB-157	154	-		
PCB-108	-	-	C107	107	PCB-158	1150	-	C	160
PCB-109	ND	15.1			PCB-159	40.1	-		
PCB-110	22100	-			PCB-160	-	-	C158	158
PCB-111	314	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	16.1			PCB-163	-	-	C138	138/164
PCB-114	276	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	54.0	-		
PCB-117	-	-	C087	87/125	PCB-167	306	-		
PCB-118	-	-	C106	106	PCB-168	ND	10.5		
PCB-119	862	-			PCB-169	ND	12.1		
PCB-120	ND	15.0			PCB-170	746	-		
PCB-121	2280	-			PCB-171	270	-		
PCB-122	158	-			PCB-172	210	-		
PCB-123	207	-			PCB-173	29.4	-		
PCB-124	458	-			PCB-174	863	-		
PCB-125	-	-	C087	87/117	PCB-175	43.2	-		
PCB-126	ND	18.6			PCB-176	156	-		
PCB-127	ND	13.5			PCB-177	577	-		
PCB-128	1620	-	C	162	PCB-178	220	-		
PCB-129	573	-			PCB-179	517	-		
PCB-130	924	-			PCB-180	1260	-		
PCB-131	382	-	C	133	PCB-181	ND	9.25		
PCB-132	4110	-	C	161	PCB-182	1020	-	C	187
PCB-133	-	-	C131	131	PCB-183	497	-		
PCB-134	905	-	C	143	PCB-184	3210	-		
PCB-135	1990	-			PCB-185	83.1	-		
PCB-136	2750	-			PCB-186	ND	6.78		
PCB-137	513	-			PCB-187	-	-	C182	182
PCB-138	8200	-	C	163/164	PCB-188	13.8	-	J	
PCB-139	9360	-	C	149	PCB-189	33.1	-		
PCB-140	111	-			PCB-190	144	-		
PCB-141	1590	-			PCB-191	38.8	-		
PCB-142	2200	-			PCB-192	2270	-		
PCB-143	-	-	C134	134	PCB-193	93.3	-		
PCB-144	557	-			PCB-194	139	-		
PCB-145	12.9	-	J		PCB-195	61.5	-		
PCB-146	1270	-	C	165	PCB-196	198	-	C	203
PCB-147	374	-			PCB-197	50.5	-		
PCB-148	ND	8.17			PCB-198	ND	7.21		
PCB-149	-	-	C139	139	PCB-199	189	-		
PCB-150	36.5	-			PCB-200	30.3	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10146-007-SA
Client ID: LDW-BA-IN-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-21-16
GC Column: DB1
Units: pg/sample

Acquired: 09-21-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	30.8	-		
PCB-202	48.3	-		
PCB-203	-	-	C196	196
PCB-204	4550	-		
PCB-205	ND	7.77		
PCB-206	36.0	-		
PCB-207	25.6	-		
PCB-208	12.0	-	J	
PCB-209	28.7	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	93.0	5.00 - 145	
13C-PCB-3	86.8	5.00 - 145	
13C-PCB-4	92.7	5.00 - 145	
13C-PCB-15	86.6	5.00 - 145	
13C-PCB-19	99.0	5.00 - 145	
13C-PCB-37	103	5.00 - 145	
13C-PCB-54	83.6	5.00 - 145	
13C-PCB-77	96.0	10.0 - 145	
13C-PCB-81	95.1	10.0 - 145	
13C-PCB-104	89.7	10.0 - 145	
13C-PCB-105	95.0	10.0 - 145	
13C-PCB-114	97.0	10.0 - 145	
13C-PCB-118	93.4	10.0 - 145	
13C-PCB-123	86.5	10.0 - 145	
13C-PCB-126	96.3	10.0 - 145	
13C-PCB-155	94.3	10.0 - 145	
13C-PCB-156	94.7	10.0 - 145	
13C-PCB-157	100	10.0 - 145	
13C-PCB-167	95.9	10.0 - 145	
13C-PCB-169	98.1	10.0 - 145	
13C-PCB-188	87.9	10.0 - 145	
13C-PCB-189	98.9	10.0 - 145	
13C-PCB-202	92.1	10.0 - 145	
13C-PCB-205	94.8	10.0 - 145	
13C-PCB-206	95.2	10.0 - 145	
13C-PCB-208	95.4	10.0 - 145	
13C-PCB-209	89.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	88.8	5.00 - 145	
13C-PCB-111	98.6	10.0 - 145	
13C-PCB-178	99.6	10.0 - 145	

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

Analyst: _____

Date: 9/23/2016

Reviewed By: _____

Date: 9/23/2016

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EPA Method 1668
PCBs

FAL ID: 10146-008-SA
Client ID: LDW-BA-IN-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-20-2016
Total Conc: 243000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	306	-			PCB-51	482	-		
PCB-2	ND	8.06			PCB-52	22700	-	C	69
PCB-3	18.5	-	J		PCB-53	1970	-		
PCB-4	194	-			PCB-54	40.9	-		
PCB-5	482	-			PCB-55	255	-		
PCB-6	1850	-			PCB-56	1250	-	C	60
PCB-7	150	-			PCB-57	264	-		
PCB-8	581	-			PCB-58	116	-		
PCB-9	139	-			PCB-59	-	-	C042	42
PCB-10	142	-			PCB-60	-	-	C056	56
PCB-11	ND	14.0			PCB-61	3960	-	C	70
PCB-12	225	-			PCB-62	ND	6.38		
PCB-13	25.2	-			PCB-63	304	-		
PCB-14	96.9	-			PCB-64	-	-	C041	41/71/72
PCB-15	193	-			PCB-65	ND	6.23		
PCB-16	3210	-			PCB-66	3820	-	C	76
PCB-17	3900	-			PCB-67	515	-		
PCB-18	10800	-			PCB-68	128	-		
PCB-19	941	-			PCB-69	-	-	C052	52
PCB-20	2360	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	1290	-			PCB-72	-	-	C041	41/64/71
PCB-23	13.7	-	J		PCB-73	ND	6.16		
PCB-24	282	-			PCB-74	1630	-		
PCB-25	2500	-			PCB-75	-	-	C048	48
PCB-26	7380	-			PCB-76	-	-	C066	66
PCB-27	291	-			PCB-77	162	-		
PCB-28	3980	-			PCB-78	1020	-		
PCB-29	16.8	-	J		PCB-79	92.0	-		
PCB-30	ND	4.15			PCB-80	ND	5.31		
PCB-31	4300	-			PCB-81	171	-		
PCB-32	2650	-			PCB-82	1120	-		
PCB-33	-	-	C020	20/21	PCB-83	724	-	C	112
PCB-34	85.5	-			PCB-84	7470	-	C	92
PCB-35	ND	9.91			PCB-85	1520	-	C	116
PCB-36	697	-			PCB-86	ND	17.7		
PCB-37	257	-			PCB-87	4280	-	C	117/125
PCB-38	ND	7.70			PCB-88	1680	-	C	91
PCB-39	ND	8.74			PCB-89	226	-		
PCB-40	1340	-			PCB-90	10900	-	C	101
PCB-41	6160	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	2900	-	C	59	PCB-92	-	-	C084	84
PCB-43	13200	-	C	49	PCB-93	ND	9.28		
PCB-44	11500	-			PCB-94	100	-		
PCB-45	1890	-			PCB-95	16800	-		
PCB-46	767	-			PCB-96	167	-		
PCB-47	2310	-			PCB-97	2630	-		
PCB-48	1440	-	C	75	PCB-98	ND	7.42	C	102
PCB-49	-	-	C043	43	PCB-99	4630	-		
PCB-50	58.3	-			PCB-100	89.8	-		

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EPA Method 1668
PCBs

FAL ID: 10146-008-SA
Client ID: LDW-BA-IN-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-20-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	1100	-		
PCB-102	-	-	C098	98	PCB-152	16.5	-	J	
PCB-103	229	-			PCB-153	3500	-		
PCB-104	1400	-			PCB-154	110	-		
PCB-105	1180	-			PCB-155	2430	-		
PCB-106	4180	-	C	118	PCB-156	262	-		
PCB-107	384	-	C	108	PCB-157	64.4	-		
PCB-108	-	-	C107	107	PCB-158	490	-	C	160
PCB-109	ND	12.6			PCB-159	19.3	-	J	
PCB-110	11100	-			PCB-160	-	-	C158	158
PCB-111	86.3	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	13.7			PCB-163	-	-	C138	138/164
PCB-114	88.7	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	17.0	-	J	
PCB-117	-	-	C087	87/125	PCB-167	129	-		
PCB-118	-	-	C106	106	PCB-168	ND	12.2		
PCB-119	397	-			PCB-169	ND	13.5		
PCB-120	ND	12.5			PCB-170	314	-		
PCB-121	2420	-			PCB-171	118	-		
PCB-122	65.2	-			PCB-172	137	-		
PCB-123	110	-			PCB-173	ND	12.3		
PCB-124	202	-			PCB-174	420	-		
PCB-125	-	-	C087	87/117	PCB-175	20.1	-		
PCB-126	ND	9.78			PCB-176	78.8	-		
PCB-127	ND	7.39			PCB-177	265	-		
PCB-128	649	-	C	162	PCB-178	109	-		
PCB-129	252	-			PCB-179	241	-		
PCB-130	380	-			PCB-180	621	-		
PCB-131	189	-	C	133	PCB-181	ND	11.1		
PCB-132	1610	-	C	161	PCB-182	511	-	C	187
PCB-133	-	-	C131	131	PCB-183	243	-		
PCB-134	384	-	C	143	PCB-184	3110	-		
PCB-135	929	-			PCB-185	44.9	-		
PCB-136	1320	-			PCB-186	ND	7.60		
PCB-137	252	-			PCB-187	-	-	C182	182
PCB-138	3580	-	C	163/164	PCB-188	ND	7.54		
PCB-139	4180	-	C	149	PCB-189	ND	8.22		
PCB-140	73.8	-			PCB-190	66.4	-		
PCB-141	692	-			PCB-191	20.8	-		
PCB-142	2000	-			PCB-192	2300	-		
PCB-143	-	-	C134	134	PCB-193	51.1	-		
PCB-144	212	-			PCB-194	62.3	-		
PCB-145	ND	6.72			PCB-195	27.5	-		
PCB-146	569	-	C	165	PCB-196	106	-	C	203
PCB-147	138	-			PCB-197	39.4	-		
PCB-148	ND	8.60			PCB-198	ND	12.5		
PCB-149	-	-	C139	139	PCB-199	114	-		
PCB-150	19.1	-	J		PCB-200	ND	8.71		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10146-008-SA
Client ID: LDW-BA-IN-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-20-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	8.35		
PCB-202	38.7	-		
PCB-203	-	-	C196	196
PCB-204	4670	-		
PCB-205	ND	6.56		
PCB-206	21.9	-		
PCB-207	22.9	-		
PCB-208	ND	6.72		
PCB-209	30.3	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	87.2	5.00 - 145	
13C-PCB-3	88.5	5.00 - 145	
13C-PCB-4	92.0	5.00 - 145	
13C-PCB-15	88.5	5.00 - 145	
13C-PCB-19	98.4	5.00 - 145	
13C-PCB-37	78.3	5.00 - 145	
13C-PCB-54	90.7	5.00 - 145	
13C-PCB-77	94.5	10.0 - 145	
13C-PCB-81	95.7	10.0 - 145	
13C-PCB-104	96.9	10.0 - 145	
13C-PCB-105	86.8	10.0 - 145	
13C-PCB-114	90.2	10.0 - 145	
13C-PCB-118	92.5	10.0 - 145	
13C-PCB-123	83.6	10.0 - 145	
13C-PCB-126	91.0	10.0 - 145	
13C-PCB-155	91.2	10.0 - 145	
13C-PCB-156	95.5	10.0 - 145	
13C-PCB-157	101	10.0 - 145	
13C-PCB-167	98.5	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	94.0	10.0 - 145	
13C-PCB-189	112	10.0 - 145	
13C-PCB-202	98.1	10.0 - 145	
13C-PCB-205	98.3	10.0 - 145	
13C-PCB-206	108	10.0 - 145	
13C-PCB-208	95.6	10.0 - 145	
13C-PCB-209	105	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	72.4	5.00 - 145	
13C-PCB-111	90.9	10.0 - 145	
13C-PCB-178	103	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: 9/23/16

Reviewed By: _____

Date: 9/23/16

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EPA Method 1668
PCBs

FAL ID: 10146-009-SA
Client ID: LDW-BA-IN-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-20-2016
Total Conc: 202000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	57.6	-			PCB-51	355	-		
PCB-2	ND	7.43			PCB-52	17600	-	C	69
PCB-3	ND	7.02			PCB-53	1380	-		
PCB-4	317	-			PCB-54	25.1	-		
PCB-5	251	-			PCB-55	197	-		
PCB-6	500	-			PCB-56	1010	-	C	60
PCB-7	47.3	-			PCB-57	196	-		
PCB-8	351	-			PCB-58	111	-		
PCB-9	60.7	-			PCB-59	-	-	C042	42
PCB-10	32.9	-			PCB-60	-	-	C056	56
PCB-11	21.6	-			PCB-61	3420	-	C	70
PCB-12	87.4	-			PCB-62	ND	13.7		
PCB-13	ND	16.5			PCB-63	213	-		
PCB-14	93.9	-			PCB-64	-	-	C041	41/71/72
PCB-15	89.0	-			PCB-65	ND	13.3		
PCB-16	1090	-			PCB-66	3160	-	C	76
PCB-17	1930	-			PCB-67	390	-		
PCB-18	5010	-			PCB-68	122	-		
PCB-19	410	-			PCB-69	-	-	C052	52
PCB-20	1370	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	706	-			PCB-72	-	-	C041	41/64/71
PCB-23	14.3	-	J		PCB-73	ND	13.2		
PCB-24	128	-			PCB-74	1390	-		
PCB-25	1110	-			PCB-75	-	-	C048	48
PCB-26	3630	-			PCB-76	-	-	C066	66
PCB-27	206	-			PCB-77	155	-		
PCB-28	2240	-			PCB-78	1660	-		
PCB-29	15.2	-	J		PCB-79	70.0	-		
PCB-30	ND	4.88			PCB-80	ND	11.4		
PCB-31	2260	-			PCB-81	197	-		
PCB-32	1260	-			PCB-82	1050	-		
PCB-33	-	-	C020	20/21	PCB-83	662	-	C	112
PCB-34	49.9	-			PCB-84	6840	-	C	92
PCB-35	ND	11.0			PCB-85	1460	-	C	116
PCB-36	788	-			PCB-86	ND	13.6		
PCB-37	166	-			PCB-87	4000	-	C	117/125
PCB-38	ND	8.55			PCB-88	2010	-	C	91
PCB-39	ND	9.70			PCB-89	208	-		
PCB-40	992	-			PCB-90	10500	-	C	101
PCB-41	4730	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	2210	-	C	59	PCB-92	-	-	C084	84
PCB-43	10200	-	C	49	PCB-93	ND	7.63		
PCB-44	8460	-			PCB-94	86.2	-		
PCB-45	1240	-			PCB-95	15300	-		
PCB-46	503	-			PCB-96	140	-		
PCB-47	1880	-			PCB-97	2390	-		
PCB-48	1120	-	C	75	PCB-98	ND	6.10	C	102
PCB-49	-	-	C043	43	PCB-99	4390	-		
PCB-50	44.7	-			PCB-100	88.9	-		

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EPA Method 1668
PCBs

FAL ID: 10146-009-SA
Client ID: LDW-BA-IN-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-20-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	1180	-		
PCB-102	-	-	C098	98	PCB-152	15.4	-	J	
PCB-103	217	-			PCB-153	3490	-		
PCB-104	1950	-			PCB-154	107	-		
PCB-105	1220	-			PCB-155	3090	-		
PCB-106	3820	-	C	118	PCB-156	264	-		
PCB-107	337	-	C	108	PCB-157	65.0	-		
PCB-108	-	-	C107	107	PCB-158	505	-	C	160
PCB-109	ND	9.76			PCB-159	18.1	-	J	
PCB-110	10200	-			PCB-160	-	-	C158	158
PCB-111	128	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	10.6			PCB-163	-	-	C138	138/164
PCB-114	88.9	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	18.4	-	J	
PCB-117	-	-	C087	87/125	PCB-167	126	-		
PCB-118	-	-	C106	106	PCB-168	ND	9.67		
PCB-119	350	-			PCB-169	ND	10.3		
PCB-120	ND	9.68			PCB-170	345	-		
PCB-121	2870	-			PCB-171	134	-		
PCB-122	53.7	-			PCB-172	162	-		
PCB-123	79.1	-			PCB-173	ND	6.97		
PCB-124	179	-			PCB-174	443	-		
PCB-125	-	-	C087	87/117	PCB-175	24.6	-		
PCB-126	ND	10.2			PCB-176	75.3	-		
PCB-127	ND	7.67			PCB-177	316	-		
PCB-128	635	-	C	162	PCB-178	127	-		
PCB-129	247	-			PCB-179	273	-		
PCB-130	316	-			PCB-180	672	-		
PCB-131	159	-	C	133	PCB-181	ND	6.32		
PCB-132	1610	-	C	161	PCB-182	573	-	C	187
PCB-133	-	-	C131	131	PCB-183	256	-		
PCB-134	381	-	C	143	PCB-184	4010	-		
PCB-135	951	-			PCB-185	53.0	-		
PCB-136	1290	-			PCB-186	ND	4.32		
PCB-137	254	-			PCB-187	-	-	C182	182
PCB-138	3540	-	C	163/164	PCB-188	ND	4.48		
PCB-139	4150	-	C	149	PCB-189	14.0	-	J	
PCB-140	68.6	-			PCB-190	75.1	-		
PCB-141	716	-			PCB-191	20.9	-		
PCB-142	2630	-			PCB-192	3040	-		
PCB-143	-	-	C134	134	PCB-193	54.4	-		
PCB-144	196	-			PCB-194	70.2	-		
PCB-145	ND	6.24			PCB-195	36.6	-		
PCB-146	583	-	C	165	PCB-196	116	-	C	203
PCB-147	147	-			PCB-197	62.4	-		
PCB-148	ND	7.99			PCB-198	ND	10.9		
PCB-149	-	-	C139	139	PCB-199	127	-		
PCB-150	20.9	-			PCB-200	17.8	-	J	

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10146-009-SA
Client ID: LDW-BA-IN-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-20-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	18.9	-	J	
PCB-202	36.7	-		
PCB-203	-	-	C196	196
PCB-204	6110	-		
PCB-205	ND	5.76		
PCB-206	25.7	-		
PCB-207	32.7	-		
PCB-208	ND	8.69		
PCB-209	29.7	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	84.7	5.00 - 145	
13C-PCB-3	86.9	5.00 - 145	
13C-PCB-4	88.9	5.00 - 145	
13C-PCB-15	84.4	5.00 - 145	
13C-PCB-19	89.0	5.00 - 145	
13C-PCB-37	73.6	5.00 - 145	
13C-PCB-54	83.2	5.00 - 145	
13C-PCB-77	92.1	10.0 - 145	
13C-PCB-81	92.3	10.0 - 145	
13C-PCB-104	92.7	10.0 - 145	
13C-PCB-105	84.5	10.0 - 145	
13C-PCB-114	87.5	10.0 - 145	
13C-PCB-118	88.4	10.0 - 145	
13C-PCB-123	79.6	10.0 - 145	
13C-PCB-126	87.8	10.0 - 145	
13C-PCB-155	89.4	10.0 - 145	
13C-PCB-156	94.1	10.0 - 145	
13C-PCB-157	97.6	10.0 - 145	
13C-PCB-167	96.1	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	91.7	10.0 - 145	
13C-PCB-189	109	10.0 - 145	
13C-PCB-202	95.2	10.0 - 145	
13C-PCB-205	93.7	10.0 - 145	
13C-PCB-206	100	10.0 - 145	
13C-PCB-208	90.9	10.0 - 145	
13C-PCB-209	100	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	72.0	5.00 - 145	
13C-PCB-111	89.2	10.0 - 145	
13C-PCB-178	101	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: 9/23/2016

Reviewed By: _____

Date: 9/23/2016

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EPA Method 1668
PCBs

FAL ID: 10146-010-SA
Client ID: LDW-BA-IN-ENR-CA-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-20-2016
Total Conc: 181000

Compound	Conc	DL	Qual	Coeluters
PCB-1	173	-		
PCB-2	ND	9.04		
PCB-3	11.0	-	J	
PCB-4	344	-		
PCB-5	237	-		
PCB-6	395	-		
PCB-7	54.6	-		
PCB-8	481	-		
PCB-9	69.1	-		
PCB-10	60.0	-		
PCB-11	ND	14.4		
PCB-12	92.1	-		
PCB-13	ND	14.3		
PCB-14	117	-		
PCB-15	139	-		
PCB-16	1030	-		
PCB-17	1650	-		
PCB-18	3920	-		
PCB-19	413	-		
PCB-20	1450	-	C	21/33
PCB-21	-	-	C020	20/33
PCB-22	667	-		
PCB-23	ND	12.1		
PCB-24	197	-		
PCB-25	998	-		
PCB-26	2640	-		
PCB-27	204	-		
PCB-28	2550	-		
PCB-29	ND	13.9		
PCB-30	ND	4.28		
PCB-31	2140	-		
PCB-32	1060	-		
PCB-33	-	-	C020	20/21
PCB-34	43.5	-		
PCB-35	ND	18.1		
PCB-36	947	-		
PCB-37	184	-		
PCB-38	ND	14.1		
PCB-39	ND	16.0		
PCB-40	857	-		
PCB-41	3860	-	C	64/71/72
PCB-42	1800	-	C	59
PCB-43	7840	-	C	49
PCB-44	7080	-		
PCB-45	1020	-		
PCB-46	448	-		
PCB-47	1540	-		
PCB-48	985	-	C	75
PCB-49	-	-	C043	43
PCB-50	36.0	-		

Compound	Conc	DL	Qual	Coeluters
PCB-51	297	-		
PCB-52	13800	-	C	69
PCB-53	1260	-		
PCB-54	22.6	-		
PCB-55	137	-		
PCB-56	1040	-	C	60
PCB-57	82.9	-		
PCB-58	ND	16.4		
PCB-59	-	-	C042	42
PCB-60	-	-	C056	56
PCB-61	3550	-	C	70
PCB-62	ND	16.7		
PCB-63	152	-		
PCB-64	-	-	C041	41/71/72
PCB-65	ND	16.3		
PCB-66	2960	-	C	76
PCB-67	256	-		
PCB-68	76.1	-		
PCB-69	-	-	C052	52
PCB-70	-	-	C061	61
PCB-71	-	-	C041	41/64/72
PCB-72	-	-	C041	41/64/71
PCB-73	ND	16.1		
PCB-74	1170	-		
PCB-75	-	-	C048	48
PCB-76	-	-	C066	66
PCB-77	154	-		
PCB-78	991	-		
PCB-79	51.5	-		
PCB-80	ND	13.9		
PCB-81	109	-		
PCB-82	958	-		
PCB-83	594	-	C	112
PCB-84	6180	-	C	92
PCB-85	1410	-	C	116
PCB-86	ND	16.1		
PCB-87	3690	-	C	117/125
PCB-88	1730	-	C	91
PCB-89	193	-		
PCB-90	10500	-	C	101
PCB-91	-	-	C088	88
PCB-92	-	-	C084	84
PCB-93	ND	9.18		
PCB-94	83.6	-		
PCB-95	13700	-		
PCB-96	123	-		
PCB-97	2470	-		
PCB-98	ND	7.34	C	102
PCB-99	4240	-		
PCB-100	76.6	-		

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EPA Method 1668
PCBs

FAL ID: 10146-010-SA
Client ID: LDW-BA-IN-ENR-CA-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-20-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	1060	-		
PCB-102	-	-	C098	98	PCB-152	12.9	-	J	
PCB-103	168	-			PCB-153	3330	-		
PCB-104	1740	-			PCB-154	95.9	-		
PCB-105	1270	-			PCB-155	2780	-		
PCB-106	3920	-	C	118	PCB-156	256	-		
PCB-107	317	-	C	108	PCB-157	66.1	-		
PCB-108	-	-	C107	107	PCB-158	496	-	C	160
PCB-109	ND	11.5			PCB-159	17.6	-	J	
PCB-110	9720	-			PCB-160	-	-	C158	158
PCB-111	113	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	12.5			PCB-163	-	-	C138	138/164
PCB-114	92.3	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	22.1	-		
PCB-117	-	-	C087	87/125	PCB-167	112	-		
PCB-118	-	-	C106	106	PCB-168	ND	15.8		
PCB-119	322	-			PCB-169	ND	18.6		
PCB-120	ND	11.4			PCB-170	320	-		
PCB-121	2530	-			PCB-171	121	-		
PCB-122	56.1	-			PCB-172	136	-		
PCB-123	64.1	-			PCB-173	ND	10.8		
PCB-124	182	-			PCB-174	377	-		
PCB-125	-	-	C087	87/117	PCB-175	19.8	-	J	
PCB-126	ND	14.2			PCB-176	80.3	-		
PCB-127	ND	9.90			PCB-177	263	-		
PCB-128	603	-	C	162	PCB-178	100	-		
PCB-129	247	-			PCB-179	244	-		
PCB-130	373	-			PCB-180	620	-		
PCB-131	133	-	C	133	PCB-181	ND	9.78		
PCB-132	1550	-	C	161	PCB-182	512	-	C	187
PCB-133	-	-	C131	131	PCB-183	234	-		
PCB-134	348	-	C	143	PCB-184	3490	-		
PCB-135	812	-			PCB-185	36.0	-		
PCB-136	1180	-			PCB-186	ND	6.69		
PCB-137	204	-			PCB-187	-	-	C182	182
PCB-138	3480	-	C	163/164	PCB-188	11.1	-	J	
PCB-139	3920	-	C	149	PCB-189	ND	7.83		
PCB-140	60.9	-			PCB-190	62.3	-		
PCB-141	665	-			PCB-191	ND	7.72		
PCB-142	2250	-			PCB-192	2390	-		
PCB-143	-	-	C134	134	PCB-193	48.7	-		
PCB-144	229	-			PCB-194	57.3	-		
PCB-145	ND	5.98			PCB-195	32.8	-		
PCB-146	554	-	C	165	PCB-196	122	-	C	203
PCB-147	137	-			PCB-197	48.2	-		
PCB-148	1420	-			PCB-198	ND	14.9		
PCB-149	-	-	C139	139	PCB-199	107	-		
PCB-150	17.8	-	J		PCB-200	ND	10.4		

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EPA Method 1668
PCBs

FAL ID: 10146-010-SA
Client ID: LDW-BA-IN-ENR-CA-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-20-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	9.93		
PCB-202	30.7	-		
PCB-203	-	-	C196	196
PCB-204	4770	-		
PCB-205	ND	7.70		
PCB-206	17.9	-	J	
PCB-207	24.3	-		
PCB-208	ND	8.79		
PCB-209	24.0	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	88.7	5.00 - 145	
13C-PCB-3	84.7	5.00 - 145	
13C-PCB-4	96.6	5.00 - 145	
13C-PCB-15	83.3	5.00 - 145	
13C-PCB-19	98.0	5.00 - 145	
13C-PCB-37	66.8	5.00 - 145	
13C-PCB-54	90.3	5.00 - 145	
13C-PCB-77	93.1	10.0 - 145	
13C-PCB-81	94.3	10.0 - 145	
13C-PCB-104	93.2	10.0 - 145	
13C-PCB-105	86.5	10.0 - 145	
13C-PCB-114	87.7	10.0 - 145	
13C-PCB-118	90.0	10.0 - 145	
13C-PCB-123	82.4	10.0 - 145	
13C-PCB-126	85.7	10.0 - 145	
13C-PCB-155	91.0	10.0 - 145	
13C-PCB-156	93.8	10.0 - 145	
13C-PCB-157	97.4	10.0 - 145	
13C-PCB-167	97.8	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	95.2	10.0 - 145	
13C-PCB-189	106	10.0 - 145	
13C-PCB-202	95.5	10.0 - 145	
13C-PCB-205	102	10.0 - 145	
13C-PCB-206	108	10.0 - 145	
13C-PCB-208	101	10.0 - 145	
13C-PCB-209	110	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	84.6	5.00 - 145	
13C-PCB-111	98.6	10.0 - 145	
13C-PCB-178	109	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: 9/23/2016

Reviewed By: _____

Date: 9/23/2016

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10146-011-SA
Client ID: LDW-BA-IN-ENR-CB-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-20-2016
Total Conc: 239000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	136	-			PCB-51	450	-		
PCB-2	ND	7.83			PCB-52	20000	-	C	69
PCB-3	17.0	-	J		PCB-53	1860	-		
PCB-4	455	-			PCB-54	33.6	-		
PCB-5	504	-			PCB-55	281	-		
PCB-6	1140	-			PCB-56	1280	-	C	60
PCB-7	94.5	-			PCB-57	213	-		
PCB-8	601	-			PCB-58	ND	8.82		
PCB-9	92.7	-			PCB-59	-	-	C042	42
PCB-10	127	-			PCB-60	-	-	C056	56
PCB-11	ND	17.0			PCB-61	3650	-	C	70
PCB-12	136	-			PCB-62	ND	8.97		
PCB-13	ND	16.9			PCB-63	238	-		
PCB-14	173	-			PCB-64	-	-	C041	41/71/72
PCB-15	132	-			PCB-65	ND	8.75		
PCB-16	1980	-			PCB-66	3810	-	C	76
PCB-17	3170	-			PCB-67	574	-		
PCB-18	8290	-			PCB-68	116	-		
PCB-19	717	-			PCB-69	-	-	C052	52
PCB-20	2290	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	1130	-			PCB-72	-	-	C041	41/64/71
PCB-23	20.9	-			PCB-73	ND	8.66		
PCB-24	326	-			PCB-74	1600	-		
PCB-25	2110	-			PCB-75	-	-	C048	48
PCB-26	5370	-			PCB-76	-	-	C066	66
PCB-27	248	-			PCB-77	171	-		
PCB-28	3880	-			PCB-78	1190	-		
PCB-29	20.3	-			PCB-79	ND	11.8		
PCB-30	ND	4.29			PCB-80	ND	7.46		
PCB-31	4140	-			PCB-81	148	-		
PCB-32	2040	-			PCB-82	1270	-		
PCB-33	-	-	C020	20/21	PCB-83	741	-	C	112
PCB-34	60.3	-			PCB-84	7590	-	C	92
PCB-35	ND	16.5			PCB-85	1640	-	C	116
PCB-36	943	-			PCB-86	ND	14.5		
PCB-37	253	-			PCB-87	4750	-	C	117/125
PCB-38	ND	12.9			PCB-88	2040	-	C	91
PCB-39	ND	14.6			PCB-89	226	-		
PCB-40	1330	-			PCB-90	11400	-	C	101
PCB-41	5830	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	2890	-	C	59	PCB-92	-	-	C084	84
PCB-43	11800	-	C	49	PCB-93	ND	8.11		
PCB-44	10700	-			PCB-94	107	-		
PCB-45	1790	-			PCB-95	17100	-		
PCB-46	740	-			PCB-96	166	-		
PCB-47	2350	-			PCB-97	2770	-		
PCB-48	1300	-	C	75	PCB-98	ND	6.48	C	102
PCB-49	-	-	C043	43	PCB-99	4770	-		
PCB-50	55.8	-			PCB-100	94.2	-		

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EPA Method 1668
PCBs

FAL ID: 10146-011-SA
Client ID: LDW-BA-IN-ENR-CB-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-20-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	1240	-		
PCB-102	-	-	C098	98	PCB-152	15.7	-	J	
PCB-103	214	-			PCB-153	3850	-		
PCB-104	1890	-			PCB-154	114	-		
PCB-105	1450	-			PCB-155	2910	-		
PCB-106	4320	-	C	118	PCB-156	335	-		
PCB-107	388	-	C	108	PCB-157	93.6	-		
PCB-108	-	-	C107	107	PCB-158	589	-	C	160
PCB-109	ND	10.4			PCB-159	23.1	-		
PCB-110	12100	-			PCB-160	-	-	C158	158
PCB-111	134	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	11.3			PCB-163	-	-	C138	138/164
PCB-114	85.8	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	23.2	-		
PCB-117	-	-	C087	87/125	PCB-167	159	-		
PCB-118	-	-	C106	106	PCB-168	ND	14.3		
PCB-119	365	-			PCB-169	ND	15.6		
PCB-120	ND	10.3			PCB-170	409	-		
PCB-121	2830	-			PCB-171	142	-		
PCB-122	48.1	-			PCB-172	170	-		
PCB-123	63.1	-			PCB-173	20.2	-		
PCB-124	210	-			PCB-174	487	-		
PCB-125	-	-	C087	87/117	PCB-175	20.0	-		
PCB-126	ND	12.5			PCB-176	87.8	-		
PCB-127	ND	10.1			PCB-177	319	-		
PCB-128	787	-	C	162	PCB-178	110	-		
PCB-129	286	-			PCB-179	300	-		
PCB-130	408	-			PCB-180	725	-		
PCB-131	156	-	C	133	PCB-181	ND	8.11		
PCB-132	1820	-	C	161	PCB-182	592	-	C	187
PCB-133	-	-	C131	131	PCB-183	300	-		
PCB-134	432	-	C	143	PCB-184	3670	-		
PCB-135	944	-			PCB-185	56.8	-		
PCB-136	1430	-			PCB-186	ND	5.55		
PCB-137	293	-			PCB-187	-	-	C182	182
PCB-138	4090	-	C	163/164	PCB-188	ND	10.0		
PCB-139	4530	-	C	149	PCB-189	ND	6.35		
PCB-140	61.6	-			PCB-190	84.7	-		
PCB-141	798	-			PCB-191	26.1	-		
PCB-142	2250	-			PCB-192	2750	-		
PCB-143	-	-	C134	134	PCB-193	56.5	-		
PCB-144	290	-			PCB-194	70.2	-		
PCB-145	ND	6.14			PCB-195	31.9	-		
PCB-146	613	-	C	165	PCB-196	134	-	C	203
PCB-147	150	-			PCB-197	51.4	-		
PCB-148	ND	7.87			PCB-198	ND	12.2		
PCB-149	-	-	C139	139	PCB-199	137	-		
PCB-150	24.5	-			PCB-200	ND	8.47		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10146-011-SA
Client ID: LDW-BA-IN-ENR-CB-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-20-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	8.12		
PCB-202	35.6	-		
PCB-203	-	-	C196	196
PCB-204	5320	-		
PCB-205	ND	5.96		
PCB-206	25.0	-		
PCB-207	29.8	-		
PCB-208	ND	8.23		
PCB-209	32.0	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	84.8	5.00 - 145	
13C-PCB-3	80.2	5.00 - 145	
13C-PCB-4	91.5	5.00 - 145	
13C-PCB-15	83.1	5.00 - 145	
13C-PCB-19	88.2	5.00 - 145	
13C-PCB-37	71.8	5.00 - 145	
13C-PCB-54	87.0	5.00 - 145	
13C-PCB-77	91.6	10.0 - 145	
13C-PCB-81	90.5	10.0 - 145	
13C-PCB-104	88.4	10.0 - 145	
13C-PCB-105	82.0	10.0 - 145	
13C-PCB-114	84.1	10.0 - 145	
13C-PCB-118	84.2	10.0 - 145	
13C-PCB-123	80.5	10.0 - 145	
13C-PCB-126	92.3	10.0 - 145	
13C-PCB-155	88.6	10.0 - 145	
13C-PCB-156	95.6	10.0 - 145	
13C-PCB-157	99.0	10.0 - 145	
13C-PCB-167	95.2	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	90.2	10.0 - 145	
13C-PCB-189	100	10.0 - 145	
13C-PCB-202	89.5	10.0 - 145	
13C-PCB-205	99.4	10.0 - 145	
13C-PCB-206	102	10.0 - 145	
13C-PCB-208	96.5	10.0 - 145	
13C-PCB-209	106	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	85.7	5.00 - 145	
13C-PCB-111	98.7	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: 9/23/2016

Reviewed By: _____

Date: 9/23/2016

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EPA Method 1668
PCBs

FAL ID: 10146-012-SA
Client ID: LDW-BA-IN-ENR-CC-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-20-2016
Total Conc: 148000

Compound	Conc	DL	Qual	Coeluters
PCB-1	292	-		
PCB-2	ND	6.96		
PCB-3	25.1	-		
PCB-4	392	-		
PCB-5	331	-		
PCB-6	379	-		
PCB-7	84.4	-		
PCB-8	459	-		
PCB-9	62.9	-		
PCB-10	84.6	-		
PCB-11	ND	14.4		
PCB-12	74.2	-		
PCB-13	ND	14.2		
PCB-14	97.6	-		
PCB-15	103	-		
PCB-16	805	-		
PCB-17	1500	-		
PCB-18	3660	-		
PCB-19	371	-		
PCB-20	1080	-	C	21/33
PCB-21	-	-	C020	20/33
PCB-22	545	-		
PCB-23	ND	12.8		
PCB-24	131	-		
PCB-25	698	-		
PCB-26	1650	-		
PCB-27	150	-		
PCB-28	1650	-		
PCB-29	ND	14.7		
PCB-30	ND	7.79		
PCB-31	1710	-		
PCB-32	1020	-		
PCB-33	-	-	C020	20/21
PCB-34	41.6	-		
PCB-35	ND	19.2		
PCB-36	887	-		
PCB-37	110	-		
PCB-38	ND	14.9		
PCB-39	ND	16.9		
PCB-40	617	-		
PCB-41	2950	-	C	64/71/72
PCB-42	1410	-	C	59
PCB-43	6150	-	C	49
PCB-44	5100	-		
PCB-45	801	-		
PCB-46	329	-		
PCB-47	1190	-		
PCB-48	849	-	C	75
PCB-49	-	-	C043	43
PCB-50	30.4	-		

Compound	Conc	DL	Qual	Coeluters
PCB-51	232	-		
PCB-52	9790	-	C	69
PCB-53	956	-		
PCB-54	22.4	-		
PCB-55	110	-		
PCB-56	797	-	C	60
PCB-57	88.5	-		
PCB-58	ND	13.4		
PCB-59	-	-	C042	42
PCB-60	-	-	C056	56
PCB-61	2450	-	C	70
PCB-62	ND	13.6		
PCB-63	124	-		
PCB-64	-	-	C041	41/71/72
PCB-65	ND	13.3		
PCB-66	2260	-	C	76
PCB-67	179	-		
PCB-68	80.4	-		
PCB-69	-	-	C052	52
PCB-70	-	-	C061	61
PCB-71	-	-	C041	41/64/72
PCB-72	-	-	C041	41/64/71
PCB-73	ND	13.1		
PCB-74	850	-		
PCB-75	-	-	C048	48
PCB-76	-	-	C066	66
PCB-77	127	-		
PCB-78	1220	-		
PCB-79	39.4	-		
PCB-80	ND	11.3		
PCB-81	134	-		
PCB-82	681	-		
PCB-83	438	-	C	112
PCB-84	4150	-	C	92
PCB-85	957	-	C	116
PCB-86	ND	13.0		
PCB-87	2500	-	C	117/125
PCB-88	1190	-	C	91
PCB-89	133	-		
PCB-90	7170	-	C	101
PCB-91	-	-	C088	88
PCB-92	-	-	C084	84
PCB-93	ND	9.49		
PCB-94	63.0	-		
PCB-95	10400	-		
PCB-96	94.3	-		
PCB-97	1630	-		
PCB-98	ND	7.59	C	102
PCB-99	2950	-		
PCB-100	80.1	-		

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EPA Method 1668
PCBs

FAL ID: 10146-012-SA
Client ID: LDW-BA-IN-ENR-CC-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-20-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	944	-		
PCB-102	-	-	C098	98	PCB-152	ND	8.06		
PCB-103	156	-			PCB-153	2970	-		
PCB-104	1980	-			PCB-154	96.3	-		
PCB-105	888	-			PCB-155	3150	-		
PCB-106	2770	-	C	118	PCB-156	209	-		
PCB-107	275	-	C	108	PCB-157	59.4	-		
PCB-108	-	-	C107	107	PCB-158	414	-	C	160
PCB-109	ND	9.32			PCB-159	20.2	-		
PCB-110	6540	-			PCB-160	-	-	C158	158
PCB-111	55.1	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	2930	-			PCB-163	-	-	C138	138/164
PCB-114	79.7	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	16.1	-	J	
PCB-117	-	-	C087	87/125	PCB-167	114	-		
PCB-118	-	-	C106	106	PCB-168	ND	9.11		
PCB-119	226	-			PCB-169	ND	9.75		
PCB-120	ND	9.25			PCB-170	291	-		
PCB-121	2880	-			PCB-171	129	-		
PCB-122	42.9	-			PCB-172	174	-		
PCB-123	50.6	-			PCB-173	ND	14.2		
PCB-124	128	-			PCB-174	396	-		
PCB-125	-	-	C087	87/117	PCB-175	18.8	-	J	
PCB-126	ND	9.55			PCB-176	78.2	-		
PCB-127	ND	7.53			PCB-177	275	-		
PCB-128	504	-	C	162	PCB-178	102	-		
PCB-129	199	-			PCB-179	243	-		
PCB-130	266	-			PCB-180	605	-		
PCB-131	124	-	C	133	PCB-181	ND	12.9		
PCB-132	1230	-	C	161	PCB-182	534	-	C	187
PCB-133	-	-	C131	131	PCB-183	229	-		
PCB-134	251	-	C	143	PCB-184	3900	-		
PCB-135	703	-			PCB-185	39.5	-		
PCB-136	984	-			PCB-186	ND	8.82		
PCB-137	210	-			PCB-187	-	-	C182	182
PCB-138	2850	-	C	163/164	PCB-188	ND	9.25		
PCB-139	3240	-	C	149	PCB-189	ND	8.97		
PCB-140	ND	11.1			PCB-190	61.4	-		
PCB-141	552	-			PCB-191	23.0	-		
PCB-142	2500	-			PCB-192	2640	-		
PCB-143	-	-	C134	134	PCB-193	50.9	-		
PCB-144	171	-			PCB-194	68.3	-		
PCB-145	ND	8.00			PCB-195	35.7	-		
PCB-146	472	-	C	165	PCB-196	129	-	C	203
PCB-147	108	-			PCB-197	50.7	-		
PCB-148	1180	-			PCB-198	ND	16.1		
PCB-149	-	-	C139	139	PCB-199	116	-		
PCB-150	ND	7.90			PCB-200	ND	11.2		

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EPA Method 1668
PCBs

FAL ID: 10146-012-SA
Client ID: LDW-BA-IN-ENR-CC-S010
Matrix: Solvent
Batch No: X3849

Date Extracted: 09-19-2016
Date Received: 09-14-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-9-19-16
GC Column: DB1
Units: pg/sample

Acquired: 09-20-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	10.7		
PCB-202	38.3	-		
PCB-203	-	-	C196	196
PCB-204	5750	-		
PCB-205	ND	6.19		
PCB-206	19.1	-	J	
PCB-207	28.1	-		
PCB-208	ND	7.68		
PCB-209	29.2	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	78.5	5.00 - 145	
13C-PCB-3	76.0	5.00 - 145	
13C-PCB-4	87.3	5.00 - 145	
13C-PCB-15	81.6	5.00 - 145	
13C-PCB-19	83.7	5.00 - 145	
13C-PCB-37	73.0	5.00 - 145	
13C-PCB-54	83.7	5.00 - 145	
13C-PCB-77	90.2	10.0 - 145	
13C-PCB-81	90.7	10.0 - 145	
13C-PCB-104	83.9	10.0 - 145	
13C-PCB-105	86.2	10.0 - 145	
13C-PCB-114	84.0	10.0 - 145	
13C-PCB-118	85.3	10.0 - 145	
13C-PCB-123	79.7	10.0 - 145	
13C-PCB-126	89.7	10.0 - 145	
13C-PCB-155	82.5	10.0 - 145	
13C-PCB-156	89.5	10.0 - 145	
13C-PCB-157	94.0	10.0 - 145	
13C-PCB-167	90.8	10.0 - 145	
13C-PCB-169	95.2	10.0 - 145	
13C-PCB-188	83.8	10.0 - 145	
13C-PCB-189	96.3	10.0 - 145	
13C-PCB-202	80.0	10.0 - 145	
13C-PCB-205	91.3	10.0 - 145	
13C-PCB-206	93.0	10.0 - 145	
13C-PCB-208	81.7	10.0 - 145	
13C-PCB-209	88.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	89.2	5.00 - 145	
13C-PCB-111	95.6	10.0 - 145	
13C-PCB-178	100	10.0 - 145	

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

Analyst: _____

Date: 9/23/2016

Reviewed By: _____

Date: 9/23/2016

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

FAL USE ONLY

Laboratory Project No.: 10146

Temperature: 0 °C

Chain of Custody

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CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Floyd Snider	Company Name: AMEC Foster Wheeler	FAL Quote #:
Contact Name: Gretchen Heavner	Contact Name: Cliff Whitmus	P.O. #:
Address: 601 Union St, St. 601, Seattle, WA 98101	Address: 3500 188th St, St. 601, Lynwood, WA 98037	Project #:
Phone: 206-292-2078 ~~Fax:~~	Phone: 425-921-4023 ~~Fax:~~	Project Name: LDW ENR/AC ~~Pilot~~ Pilot Study 9.14.16
Email: gretchen.heavner@floydsnider.com	Email: cliff.whitmus@amecfw.com	TAT (business days): ☒ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION	REPORT DISTRIBUTION (email only is preferred)	ADDITIONAL INSTRUCTIONS
Report Level: ☒ I/II ☐ III ☐ IV	☐ Hardcopy	
☒ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: _____ ☐ Custom: Contact FAL	☒ CD (.pdf including EDDs if requested)	
	☒ Email (.pdf including EDDs if requested)	

☐ California State Drinking Water Form

System #: Source #:

Sampler: Employer:

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	LDW-BA-SC-ENR+AC-CA-S010	9/10/16	10:20	Hexane	1								X			
2	LDW-BA-SC-ENR+AC-CB-S010	↓	10:30	↓	↓								↓			10:32
3	LDW-BA-SC-ENR+AC-CC-S010	↓	10:42	↓	↓								↓			
4	LDW-BA-SC-ENR-CA-S010	↓	9:00	↓	↓								↓			
5	LDW-BA-SC-ENR-CB-S010	↓	9:15	↓	↓								↓			
6	LDW-BA-SC-ENR-CC-S010	↓	9:36	↓	↓								↓			
7	LDW-BA-IN-ENR+AC-CA-S010	↓	11:23	↓	↓								↓			
8	LDW-BA-IN-ENR+AC-CB-S010	↓	11:31	↓	↓								↓			
9	LDW-BA-IN-ENR+AC-CC-S010	↓	11:39	↓	↓								↓			
10	LDW-BA-IN-ENR-CA-S010	↓	12:14	↓	↓								↓			
11	LDW-BA-IN-ENR-CB-S010	↓	12:23	↓	↓								↓			
12	LDW-BA-IN-ENR-CC-S010	↓	12:32	↓	↓								↓			
13																
14	Project name as per email from Gretchen to Kathy. KH 9.14.16															
15																

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

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Collin Ray/Rantoall	9/13/16	0940	Kathy Bopp KZ Bopp	9/14/16	955

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

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

Kathy Zipp

From: Gretchen Heavner <Gretchen.Heavner@floydsnider.com>
Sent: Wednesday, September 28, 2016 1:05 PM
To: Kathy Zipp
Subject: RE: 10146 L1 Summary / EDD LDW ENR/AC Pilot Study

Hi Kathy,
Thank you for the results. I just realized that the COC asks for Level I/II reporting and we need Level IV. The same is true for project 10157 (which is on hold, but I don't want to forget in case it gets analyzed). Is that possible to get? I am sorry I missed this earlier in the process.

Thanks!

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

From: Kathy Zipp [mailto:kathyz@frontieranalytical.com]
Sent: Tuesday, September 27, 2016 3:48 PM
To: Gretchen Heavner <Gretchen.Heavner@floydsnider.com>; Youngblood, Jessica <jessica.youngblood@amecfw.com>; Teri A. Floyd <Teri.Floyd@floydsnider.com>; Shannon, Diane <diane.shannon@amecfw.com>
Cc: Brad Silverbush <brads@frontieranalytical.com>; Dan Vickers <danv@frontieranalytical.com>; Tom Crabtree <tomc@frontieranalytical.com>
Subject: 10146 L1 Summary / EDD LDW ENR/AC Pilot Study

Dear Dr. Heavner,

Attached please find the L1 Summary results, EDD and corresponding Invoice for Floyd Snider's project number **LDW ENR/AC Pilot Study**. The hard copy report will not be sent to you unless specifically requested.

If you have any comments or suggestions on how we can continue to improve our reports, please feel free to contact me or follow the link below to take our short survey.

Thank you for using Frontier Analytical Laboratory for your analytical needs.

Sincerely,

Kathlene Zipp
Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: (916) 934-0900
Fax: (916) 934-099
Website: www.frontieranalytical.com

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **10146**

Client:	Floyd | Snider
Client Project ID:	LDW ENR/AC Pilot Study
Date Received:	09/14/2016
Time Received:	09:55 am
Received By:	KZ
Logged In By:	KH
# of Samples Received:	12
Duplicates:	0
Storage Location:	R2

Method of Delivery:	Fed-Ex
Tracking Number:	777215251862
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test aqueous sample for residual Chlorine	No
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	N/A
Anomalies or additional comments:	

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
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FAL USE ONLY
Laboratory Project No.: 10146
Temperature: 0 °C
Chain of Custody
www.frontieranalytical.com
Please Print in Pen
Page 1 of 1
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Address: 601 Union St, St. 601, Seattle, WA
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California State Drinking Water Form
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# of containers
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EPA 8290**
DLM 02.0
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EPA 23/23A
EPA 1668
FAL 15
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10 LDW-BA-IN-ENR-CA-S010 12:14
11 LDW-BA-IN-ENR-CB-S010
12 LDW-BA-IN-ENR-CC-S010
13
14
15
10:32
Relinquished by
Time
Received by:
0940
Frontier Analytical Laboratory
10146-001-SA
Client ID: LDW-BA-SC-ENR+AC-CA-SC10
Storage: R2
(01 of 01)
Frontier Analytical Laboratory
10146-002-SA
Client ID: LDW-BA-SC-ENR+AC-CB-S010
Storage: R2
(01 of 01)
Frontier Analytical Laboratory
10146-003-SA
Client ID: LDW-BA-SC-ENR+AC-CC-S010
Storage: R2
(01 of 01)
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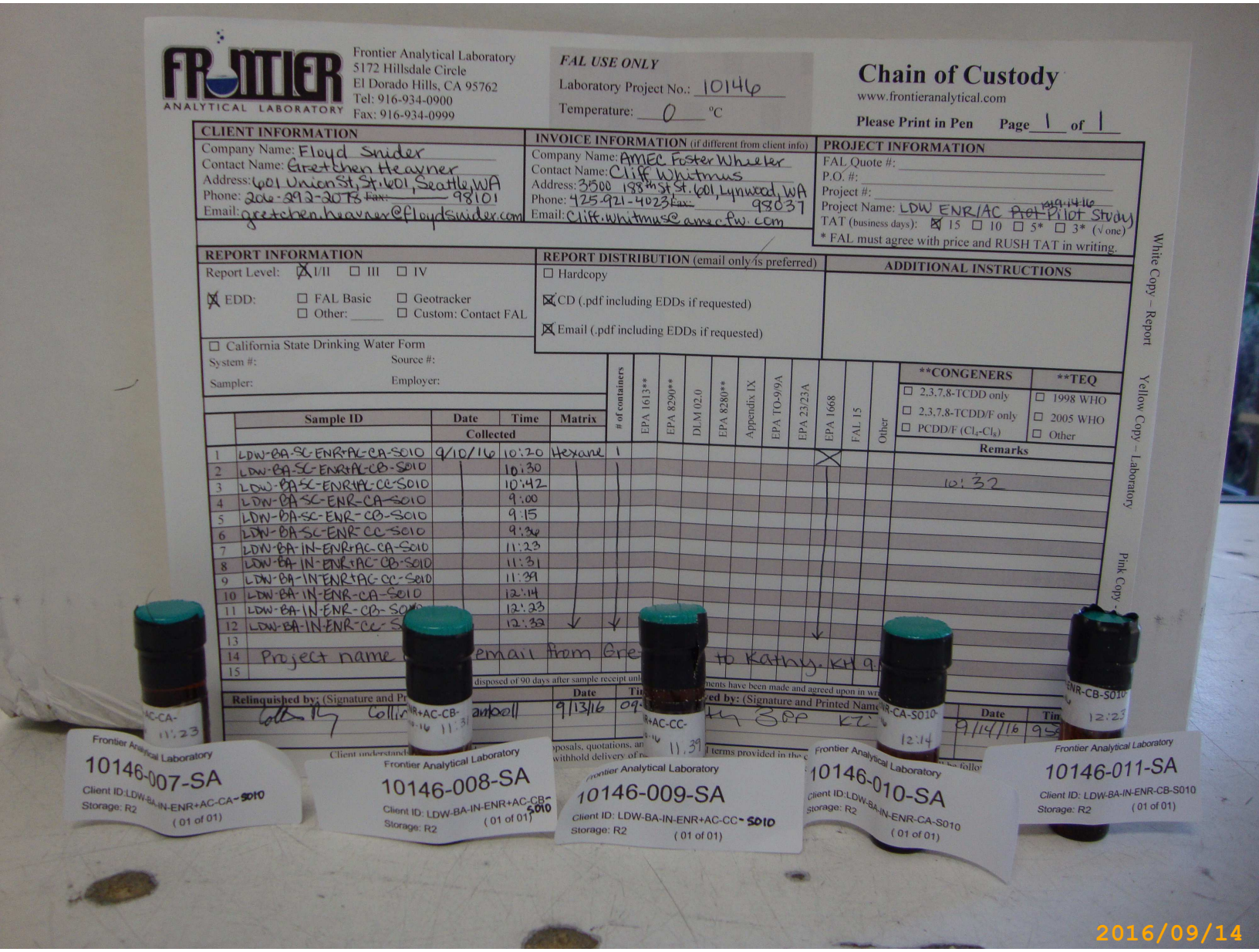
10146-004-SA
Client ID: LDW-BA-SC-ENR-CA-S010
Storage: R2
(01 of 01)
Frontier Analytical Laboratory
10146-005-SA
Client ID: LDW-BA-SC-ENR-CB-S010
Storage: R2
(01 of 01)
Frontier Analytical Laboratory
10146-006-SA
Client ID: LDW-BA-SC-ENR-CC-S010
Storage: R2
(01 of 01)
2016/09/14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Chain of Custody
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11 LDW-BA-IN-ENR-CB-S010 12:23
12 LDW-BA-IN-ENR-CC-S010 12:32
10:32
13
14 Project name email from Gre to Kathy. KH 9
15
Relinquished by: (Signature and Pr
Date 9/13/16
Date 9/14/16
White Copy – Report
Yellow Copy – Laboratory
Pink Copy
Frontier Analytical Laboratory
10146-007-SA
Client ID: LDW-BA-IN-ENR+AC-CA-S010
Storage: R2
(01 of 01)
Frontier Analytical Laboratory
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Client ID: LDW-BA-IN-ENR+AC-CB-S010
Storage: R2
(01 of 01)
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Client ID: LDW-BA-IN-ENR+AC-CC-S010
Storage: R2
(01 of 01)
Frontier Analytical Laboratory
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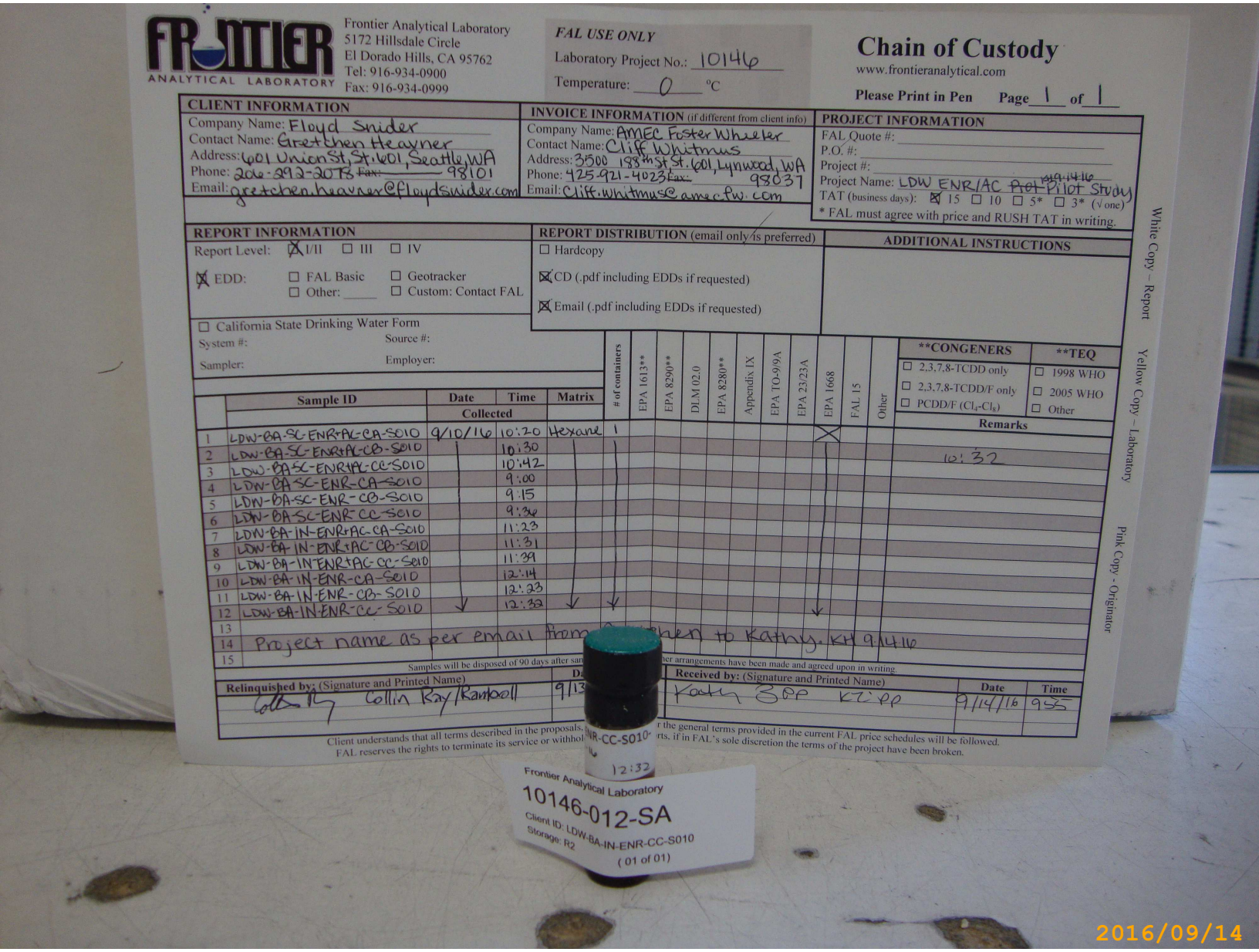
Client ID: LDW-BA-IN-ENR-CA-S010
Storage: R2
(01 of 01)
Frontier Analytical Laboratory
10146-011-SA
Client ID: LDW-BA-IN-ENR-CB-S010
Storage: R2
(01 of 01)
2016/09/14



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3	LDW-BA-SC-ENR+AC-CC-S010		10:42													10:32
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5	LDW-BA-SC-ENR-CB-S010		9:15													
6	LDW-BA-SC-ENR-CC-S010		9:36													
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8	LDW-BA-IN-ENR+AC-CB-S010		11:31													
9	LDW-BA-IN-ENR+AC-CC-S010		11:39													
10	LDW-BA-IN-ENR-CA-S010		12:14													
11	LDW-BA-IN-ENR-CB-S010		12:23													
12	LDW-BA-IN-ENR-CC-S010		12:32													
13																
14	Project name as per email from Gretchen to Kathy. KH 9.14.16															
15																

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

Samples will be disposed of 90 days after sam... ...ber arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Received by: (Signature and Printed Name)	Date	Time
Collin Ray/Ramboll	9/13	Kathy Sipp KTSipp	9/14/16	955

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2016/09/14

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PROJECT REQUEST SHEET

Project #:	10146	Sample #:	1 - 12	Client Manager:	BS
Client:	Floyd | Snider			Hold Time:	09/10/2017
Matrix:	Solvent	Extraction Batch:	3849	Due Date:	10/06/2016
Method:	EPA 1668 PCB			Storage:	R2
SOP:	SOPs: EP1A Rev.9 IP1A Rev.6				

COMMENTS/INSTRUCTIONS:

Results: 10146
- 10146-2

Extract/s located in box: "Yield"

Standards: 10146

Instrument:
DB5 ____
DB225 ____
DB1 FOL-4
Other ____

Sample #	Sample Sample Control -- Prep		Extract Prep -- Instrument		Extract Instrument -- Storage	
	Initial	Date	Initial	Date	Initial	Date
10146-002-0001-SA						
10146-004-0001-SA						
10146-006-0001-SA						
10146-008-0001-SA						
10146-010-0001-SA						
10146-001-0001-SA						
10146-003-0001-SA						

Frontier Analytical Laboratory
EXTRACTION SHEET

Project #: 10146 Extraction Date: 2016-09-19 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: 4 Chemist/Witness/Date	NS Amt: 10.0uL ID: 160829A Vial: 1 Chemist/Witness/Date	CSS Amt: 10.0uL ID: R160816A Vial: 1 Chemist/Witness/Date
03849-001-0001-MB	(5.00ml)	N/A	DN 9.19.16	N/A	DN 9.19.16
03849-001-0001-OPR	(5.00ml)			DN 9.19.16	
10146-001-0001-SA	5.75ml			N/A	
10146-002-0001-SA	5.72ml				
10146-003-0001-SA	5.50ml				
10146-004-0001-SA	5.70ml				
10146-005-0001-SA	5.62ml				
10146-006-0001-SA	5.76ml				
10146-007-0001-SA	5.70ml				
10146-008-0001-SA	5.80ml				
10146-009-0001-SA	5.88ml				
10146-010-0001-SA	5.80ml				
10146-011-0001-SA	5.70ml				
10146-012-0001-SA	5.70ml				

AX-21 Charcoal Cleaned	130410	Acetone	162164	Acid Alumina	A0347591	Hexane	162820
Methanol	162125	Methylene Chloride (DCM)	163601	Silica Gel	TA1975634	Sodium Hydroxide 1N	151965
Sodium Sulfate	16B100005	Sulfuric Acid	161853	Tetradecane	157561	Toluene	56097
Water	163604	C-18 Empore Discs	320860D	Cyclohexane	55211		

Comments: MB and OPR blank matrix = 5.00ml of Hexane

* Volumes approximate, measured using a 5.0ml pipet. DN 9.19.16

Frontier Analytical Laboratory
CLEANUP SHEET

Project #: 10146

Method/Analysis: EPA 1668 PCB

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

Sample ID	Cleanup 1 PCB·MSG	Cleanup 2 N/A	Cleanup 3 N/A	RS Amt: 10.0uL ID: 160902A Vial: 1
	Chemist/Date	Chemist/Date	Chemist/Date	Chemist/Witness/Date
03849-001-0001-MB	DN 9.19.16	N/A	N/A	DN 9.19.16
03849-001-0001-OPR				
10146-001-0001-SA				
10146-002-0001-SA				
10146-003-0001-SA				
10146-004-0001-SA				
10146-005-0001-SA				
10146-006-0001-SA				
10146-007-0001-SA				
10146-008-0001-SA				
10146-009-0001-SA				
10146-010-0001-SA				
10146-011-0001-SA				
10146-012-0001-SA				

AX-21 Charcoal Cleaned	130410	Acetone	162164	Acid Alumina	A0347591	Hexane	162820
Methanol	162125	Methylene Chloride (DCM)	163601	Silica Gel	TA1975634	Sodium Hydroxide 1N	151965
Sodium Sulfate	16B100005	Sulfuric Acid	161853	Tetradecane	157561	Toluene	56097
Water	163604	C-18 Empore Discs	320860D	Cyclohexane	55211		

Comments:

FAL ID: 03849-001-0001-MB Filename: 19SEP16Z Sam:4 Acquired: 19-SEP-16 17:20:19 ICal: DAILY209FAL4-9-19-16
Client ID: Method Blank ConCal: ST091916Z1 EndCal: ST091916Z2
Results: 10146 GC Column: DB1 Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	1.12	*		540	390	2.34	
13C-PCB-1	3.63e+07	3.25	y	14:26	0.94	9110					91.1
PCB-2	*	*	n	NotFnd	0.91	*		540	390	4.12	
PCB-3	*	*	n	NotFnd	1.28	*		540	390	4.03	
13C-PCB-3	2.99e+07	3.09	y	16:56	0.80	8780					87.8
PCB-4	*	*	n	NotFnd	1.14	*		1010	987	7.29	
PCB-10	*	*	n	NotFnd	1.32	*		1010	987	9.61	
13C-PCB-4	2.55e+07	1.62	y	18:07	0.63	9550					95.5
PCB-9	*	*	n	NotFnd	1.35	*		1010	987	9.40	
PCB-7	*	*	n	NotFnd	1.51	*		1010	987	8.45	
PCB-6	*	*	n	NotFnd	1.47	*		1010	987	8.64	
PCB-8	*	*	n	NotFnd	1.28	*		1010	987	9.91	
PCB-5	*	*	n	NotFnd	1.55	*		1010	987	8.22	
PCB-14	*	*	n	NotFnd	1.38	*		1010	987	9.21	
PCB-11	*	*	n	NotFnd	1.14	*		1010	987	11.1	
PCB-13	*	*	n	NotFnd	1.15	*		1010	987	11.0	
PCB-12	*	*	n	NotFnd	1.29	*		1010	987	9.85	
PCB-15	*	*	n	NotFnd	1.33	*		1010	987	12.1	
13C-PCB-15	3.31e+07	1.67	y	23:45	0.88	8880					88.8
PCB-19	*	*	n	NotFnd	1.22	*		864	444	6.06	
PCB-30	*	*	n	NotFnd	1.71	*		864	444	4.32	
PCB-18	*	*	n	NotFnd	1.12	*		864	444	6.60	
PCB-17	*	*	n	NotFnd	1.29	*		864	444	5.72	
PCB-27	*	*	n	NotFnd	1.63	*		864	444	4.54	
PCB-24	*	*	n	NotFnd	1.69	*		864	444	4.39	
PCB-16	*	*	n	NotFnd	1.28	*		864	444	5.79	
PCB-32	*	*	n	NotFnd	1.55	*		864	444	4.78	
13C-PCB-19	1.97e+07	1.05	y	22:00	0.47	9820					98.2
13C-PCB-9	4.25e+07	1.61	y	19:48	-	43.3					
PCB-34	*	*	n	NotFnd	0.98	*		528	321	9.79	
PCB-23	*	*	n	NotFnd	1.44	*		528	321	6.64	
PCB-29	*	*	n	NotFnd	1.25	*		528	321	7.66	
PCB-26	*	*	n	NotFnd	1.21	*		528	321	7.91	
PCB-25	*	*	n	NotFnd	1.53	*		528	321	6.28	
PCB-31	*	*	n	NotFnd	1.11	*		528	321	8.62	
PCB-28	*	*	n	NotFnd	1.60	*		528	321	5.99	
PCB-20	*	*	n	NotFnd	1.32	*		528	321	7.28	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.32	*		528	321	7.28	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.32	*		528	321	7.28	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.34	*		528	321	7.16	
PCB-36	*	*	n	NotFnd	1.11	*		528	321	8.63	
PCB-39	*	*	n	NotFnd	1.09	*		528	321	8.79	
PCB-38	*	*	n	NotFnd	1.24	*		528	321	7.75	
PCB-35	*	*	n	NotFnd	0.96	*		528	321	9.96	
PCB-37	*	*	n	NotFnd	1.29	*		528	321	7.45	
13C-PCB-37	2.58e+07	1.11	y	30:25	1.43	8170					81.7

PCB-54	*	*	n	NotFnd	1.17	*	601	711	4.51	
PCB-50	*	*	n	NotFnd	0.86	*	601	711	6.14	
PCB-53	*	*	n	NotFnd	0.83	*	601	711	6.38	
PCB-51	*	*	n	NotFnd	0.86	*	601	711	6.10	
PCB-45	*	*	n	NotFnd	0.74	*	601	711	7.14	
PCB-46	*	*	n	NotFnd	0.69	*	601	711	7.68	
PCB-52	*	*	n	NotFnd	1.02	*	601	711	5.15	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	1.02	*	601	711	5.15	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.05	*	601	711	5.01	
PCB-43	*	*	n	NotFnd	0.79	*	601	711	6.66	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.79	*	601	711	6.66	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.96	*	601	711	5.47	
PCB-48	*	*	n	NotFnd	1.05	*	601	711	5.03	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	1.05	*	601	711	5.03	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.04	*	601	711	5.06	
PCB-62	*	*	n	NotFnd	1.01	*	601	711	5.19	
PCB-44	*	*	n	NotFnd	0.73	*	601	711	7.24	
PCB-42	*	*	n	NotFnd	0.99	*	601	711	5.35	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.99	*	601	711	5.35	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	1.06	*	601	711	4.98	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	1.06	*	601	711	4.98	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	1.06	*	601	711	4.98	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	1.06	*	601	711	4.98	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	1.12	*	601	711	4.70	
PCB-40	*	*	n	NotFnd	0.64	*	601	711	8.28	
PCB-57	*	*	n	NotFnd	1.06	*	601	711	4.99	
PCB-67	*	*	n	NotFnd	1.06	*	601	711	4.96	
PCB-58	*	*	n	NotFnd	1.03	*	601	711	5.10	
PCB-63	*	*	n	NotFnd	1.07	*	601	711	4.93	
PCB-74	*	*	n	NotFnd	1.11	*	601	711	4.75	
PCB-61	*	*	n	NotFnd	1.08	*	601	711	4.85	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	1.08	*	601	711	4.85	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.14	*	601	711	4.61	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.14	*	601	711	4.61	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.22	*	601	711	4.31	
PCB-55	*	*	n	NotFnd	1.10	*	601	711	4.80	
13C-PCB-54	2.67e+07	0.81	y	25:31	1.20	10100				101
PCB-104	*	*	n	NotFnd	1.25	*	456	532	5.81	
PCB-96	*	*	n	NotFnd	1.14	*	456	532	6.38	
PCB-103	*	*	n	NotFnd	0.94	*	456	532	7.74	
PCB-100	*	*	n	NotFnd	0.91	*	456	532	7.95	
PCB-94	*	*	n	NotFnd	0.76	*	456	532	9.59	
PCB-98	*	*	n	NotFnd	0.97	*	456	532	7.45	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.97	*	456	532	7.45	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.80	*	456	532	9.02	
PCB-93	*	*	n	NotFnd	0.78	*	456	532	9.32	
PCB-88	*	*	n	NotFnd	0.81	*	456	532	8.99	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.81	*	456	532	8.99	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	1.15	*	456	532	6.32	
13C-PCB-104	1.40e+07	1.64	y	29:57	0.66	9670				96.7
13C-PCB-28	3.93e+07	1.05	y	26:38	1.63	10900				109
13C-PCB-52	2.20e+07	0.80	y	28:52	-	41.3				

PCB-56	*	*	n	NotFnd	1.24	*	388	620	7.02	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.24	*	388	620	7.02	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.23	*	388	620	7.08	
PCB-78	*	*	n	NotFnd	1.13	*	388	620	7.71	
PCB-81	*	*	n	NotFnd	1.23	*	388	620	6.89	
13C-PCB-81	2.36e+07	0.78	y	36:07	1.35	9310				93.1
PCB-77	*	*	n	NotFnd	1.14	*	388	620	7.77	
13C-PCB-77	2.39e+07	0.79	y	36:42	1.37	9230				92.3
PCB-155	*	*	n	NotFnd	1.18	*	324	368	4.20	
PCB-150	*	*	n	NotFnd	1.01	*	324	368	4.88	
PCB-152	*	*	n	NotFnd	1.00	*	324	368	4.98	
PCB-145	*	*	n	NotFnd	1.00	*	324	368	4.94	
PCB-136	*	*	n	NotFnd	0.94	*	324	368	5.27	
PCB-148	*	*	n	NotFnd	0.78	*	324	368	6.32	
PCB-154	*	*	n	NotFnd	0.85	*	324	368	5.84	
13C-PCB-155	1.50e+07	1.29	y	34:06	0.84	9480				94.8
13C-PCB-111	2.16e+07	1.62	y	36:12	1.16	9860				98.6
13C-PCB-101	1.89e+07	1.62	y	34:33	-	41.4				
PCB-84	*	*	n	NotFnd	0.68	*	528	489	8.70	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.68	*	528	489	8.70	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.67	*	528	489	8.83	
PCB-90	*	*	n	NotFnd	0.76	*	528	489	7.77	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.76	*	528	489	7.77	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.85	*	528	489	6.96	
PCB-99	*	*	n	NotFnd	0.85	*	528	489	6.99	
PCB-119	*	*	n	NotFnd	0.96	*	528	489	6.18	
PCB-83	*	*	n	NotFnd	0.78	*	528	489	7.56	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.78	*	528	489	7.56	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.92	*	528	489	6.42	
PCB-97	*	*	n	NotFnd	0.82	*	528	489	7.25	
PCB-86	*	*	n	NotFnd	0.66	*	528	489	8.97	
PCB-125	*	*	n	NotFnd	0.85	*	528	489	6.96	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.85	*	528	489	6.96	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.85	*	528	489	6.96	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.13	*	528	489	5.22	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.13	*	528	489	5.22	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.79	*	528	489	7.50	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.79	*	528	489	7.50	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.93	*	528	489	6.37	
PCB-110	*	*	n	NotFnd	1.07	*	528	489	5.53	
PCB-82	*	*	n	NotFnd	0.55	*	528	489	10.7	
PCB-124	*	*	n	NotFnd	1.03	*	577	711	7.30	
PCB-108	*	*	n	NotFnd	1.17	*	577	711	6.42	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.17	*	577	711	6.42	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.34	*	577	711	5.58	
13C-PCB-123	2.25e+07	1.58	y	38:17	1.34	9080				90.8
PCB-118	*	*	n	NotFnd	1.08	*	577	711	6.35	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.08	*	577	711	6.35	Co-elute PCB 118
13C-PCB-118	2.72e+07	1.61	y	38:26	1.45	10100				101
PCB-114	*	*	n	NotFnd	1.10	*	577	711	6.83	
13C-PCB-114	2.48e+07	1.66	y	39:03	1.36	9820				98.2
PCB-122	*	*	n	NotFnd	1.25	*	577	711	5.99	
PCB-105	*	*	n	NotFnd	1.16	*	577	711	7.08	
13C-PCB-105	2.44e+07	1.64	y	39:52	1.38	9520				95.2

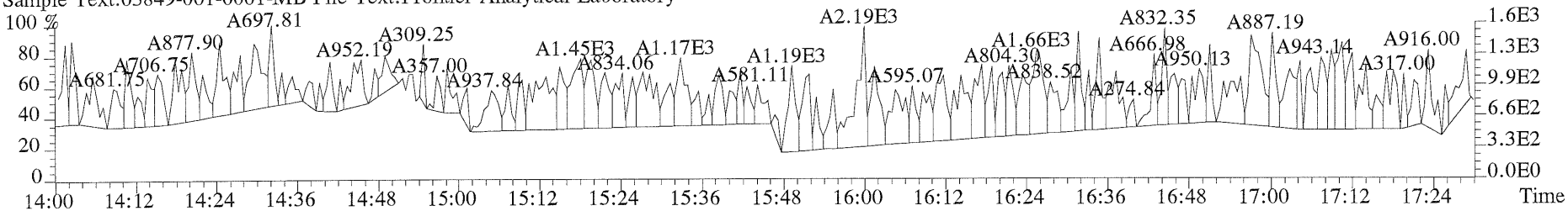
PCB-127	*	*	n	NotFnd	1.07	*	577	711	6.99	
PCB-126	*	*	n	NotFnd	1.17	*	577	711	9.61	
13C-PCB-126	2.29e+07	1.58	y	42:04	1.27	9720				97.2
PCB-151	*	*	n	NotFnd	0.89	*	408	352	5.76	
PCB-135	*	*	n	NotFnd	0.81	*	408	352	6.33	
PCB-144	*	*	n	NotFnd	1.04	*	408	352	4.92	
PCB-147	*	*	n	NotFnd	0.96	*	408	352	5.30	
PCB-139	*	*	n	NotFnd	0.98	*	408	352	5.21	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	0.98	*	408	352	5.21	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.96	*	408	352	5.30	
PCB-143	*	*	n	NotFnd	0.89	*	408	352	5.74	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.89	*	408	352	5.74	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.91	*	408	352	5.61	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.91	*	408	352	5.61	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.79	*	408	352	6.46	
PCB-165	*	*	n	NotFnd	1.07	*	408	352	4.76	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.07	*	408	352	4.76	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	1.01	*	408	352	5.06	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	1.01	*	408	352	5.06	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	1.05	*	408	352	4.89	
PCB-168	*	*	n	NotFnd	1.18	*	408	352	4.35	
PCB-141	*	*	n	NotFnd	0.89	*	408	352	5.78	
PCB-137	*	*	n	NotFnd	0.85	*	408	352	6.01	
PCB-130	*	*	n	NotFnd	0.79	*	408	352	6.47	
PCB-138	*	*	n	NotFnd	1.19	*	408	352	4.31	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.19	*	408	352	4.31	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.19	*	408	352	4.31	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.18	*	408	352	4.35	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.18	*	408	352	4.35	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.73	*	408	352	6.99	
PCB-166	*	*	n	NotFnd	1.11	*	408	352	4.63	
PCB-159	*	*	n	NotFnd	1.20	*	408	352	4.25	
PCB-128	*	*	n	NotFnd	1.00	*	408	352	5.14	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	1.00	*	408	352	5.14	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	1.06	*	408	352	4.52	
13C-PCB-167	2.09e+07	1.28	y	43:21	1.15	9820				98.2
PCB-156	*	*	n	NotFnd	1.12	*	408	352	4.72	
13C-PCB-156	1.95e+07	1.28	y	44:35	1.10	9550				95.5
PCB-157	*	*	n	NotFnd	1.13	*	408	352	4.56	
13C-PCB-157	2.13e+07	1.28	y	44:52	1.13	10200				102
PCB-169	*	*	n	NotFnd	1.07	*	408	352	4.88	
13C-PCB-169	1.98e+07	1.29	y	46:47	1.05	10100				101

FAL ID: 03849-001-0001-MB Filename: 19SEP16Z Sam:4 Acquired: 19-SEP-16 17:20:19 ICal: DAILY209FAL4-9-19-16
Client ID: Method Blank ConCal: ST091916Z1 EndCal: ST091916Z2
Results: 10146 GC Column: DB1 Amount: 1.000

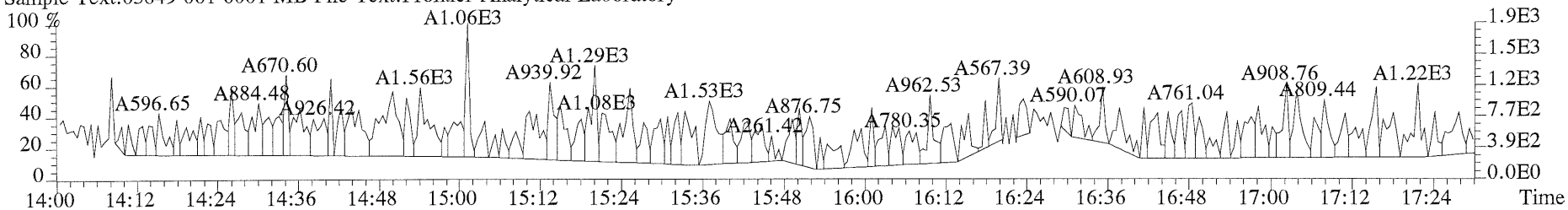
PCB-188	*	*	n	NotFnd	1.25	*	368	284	3.58	
13C-PCB-188	1.62e+07	1.08	y	39:36	0.94	9330				93.3
PCB-184	*	*	n	NotFnd	1.39	*	368	284	3.39	
PCB-179	*	*	n	NotFnd	1.31	*	368	284	3.62	
PCB-176	*	*	n	NotFnd	1.28	*	368	284	3.70	
PCB-186	*	*	n	NotFnd	1.28	*	368	284	3.70	
PCB-178	*	*	n	NotFnd	0.89	*	368	284	5.34	
PCB-175	*	*	n	NotFnd	0.93	*	368	284	5.06	
PCB-187	*	*	n	NotFnd	1.02	*	368	284	4.66	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	1.02	*	368	284	4.66	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	1.02	*	368	284	4.64	
PCB-185	*	*	n	NotFnd	0.91	*	368	284	5.17	
PCB-174	*	*	n	NotFnd	0.94	*	368	284	5.04	
PCB-181	*	*	n	NotFnd	0.87	*	368	284	5.41	
PCB-177	*	*	n	NotFnd	0.80	*	368	284	5.90	
PCB-171	*	*	n	NotFnd	0.89	*	368	284	5.31	
PCB-173	*	*	n	NotFnd	0.79	*	368	284	5.97	
PCB-172	*	*	n	NotFnd	0.80	*	368	284	5.92	
PCB-192	*	*	n	NotFnd	1.09	*	368	284	4.34	
PCB-180	*	*	n	NotFnd	1.06	*	368	284	4.44	
PCB-193	*	*	n	NotFnd	1.16	*	368	284	4.06	
PCB-191	*	*	n	NotFnd	1.11	*	368	284	4.27	
PCB-170	*	*	n	NotFnd	0.77	*	368	284	6.16	
PCB-190	*	*	n	NotFnd	1.07	*	368	284	4.44	
PCB-189	*	*	n	NotFnd	1.23	*	368	284	4.11	
13C-PCB-189	1.36e+07	1.08	y	48:27	0.70	10500				105
PCB-202	*	*	n	NotFnd	1.05	*	264	284	5.48	
PCB-201	*	*	n	NotFnd	1.05	*	264	284	5.44	
PCB-204	*	*	n	NotFnd	1.05	*	264	284	5.46	
PCB-197	*	*	n	NotFnd	1.09	*	264	284	5.28	
PCB-200	*	*	n	NotFnd	1.01	*	264	284	5.68	
PCB-198	*	*	n	NotFnd	0.70	*	264	284	8.17	
PCB-199	*	*	n	NotFnd	0.70	*	264	284	8.23	
PCB-203	*	*	n	NotFnd	0.78	*	264	284	7.38	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.78	*	264	284	7.38	Co-elute PCB 203
13C-PCB-202	1.06e+07	0.94	y	44:43	0.57	10100				101
13C-PCB-178	1.20e+07	1.10	y	42:15	0.60	10800				108
13C-PCB-138	1.86e+07	1.27	y	41:29	-	42.6				
PCB-195	*	*	n	NotFnd	0.74	*	316	420	4.35	
PCB-194	*	*	n	NotFnd	0.82	*	316	420	3.91	
PCB-205	*	*	n	NotFnd	1.07	*	316	420	2.99	
13C-PCB-205	2.01e+07	0.91	y	50:10	1.27	9490				94.9
PCB-208	*	*	n	NotFnd	1.03	*	284	248	2.45	
13C-PCB-208	1.79e+07	0.81	y	49:11	1.14	9400				94.0
PCB-207	*	*	n	NotFnd	1.15	*	284	248	2.75	
PCB-206	*	*	n	NotFnd	1.04	*	284	248	3.85	
13C-PCB-206	1.27e+07	0.81	y	51:26	0.75	10100				101
PCB-209	*	*	n	NotFnd	1.16	*	276	236	3.67	
13C-PCB-209	1.46e+07	1.21	y	52:43	0.93	9490				94.9
13C-PCB-194	1.66e+07	0.91	y	49:54	-	44.7				

Analyst: J Date: 9/20/16

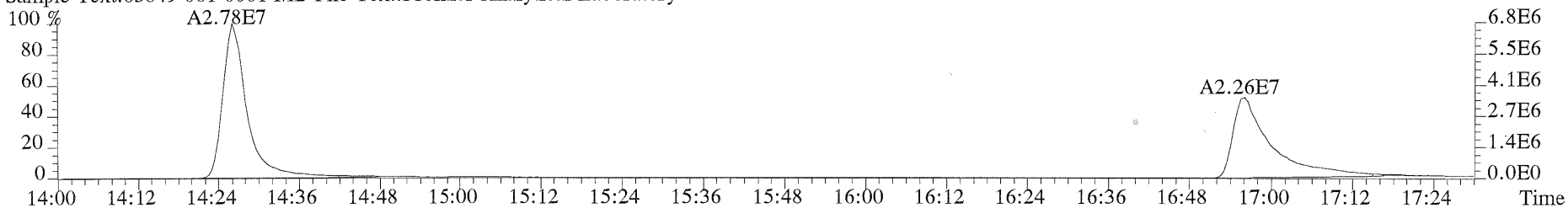
File:19SEP16Z #1-548 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



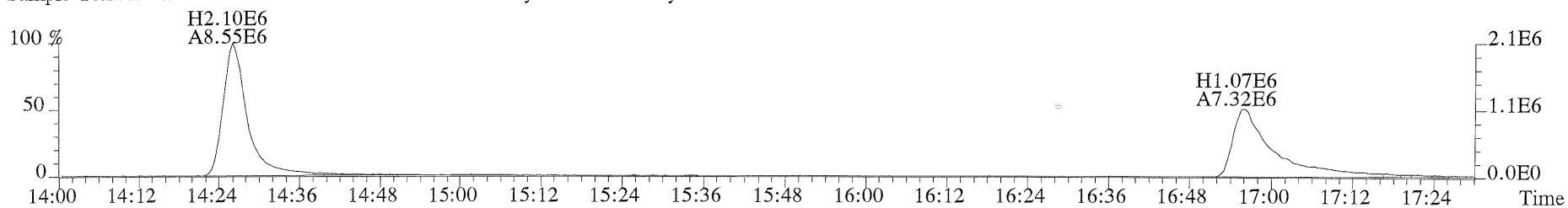
File:19SEP16Z #1-548 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



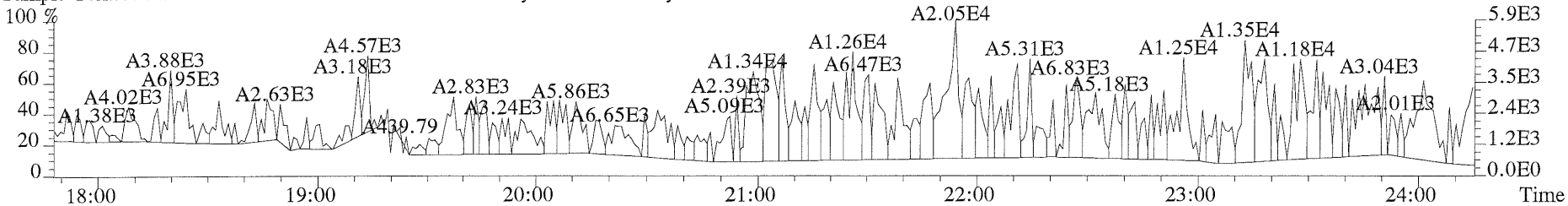
File:19SEP16Z #1-548 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



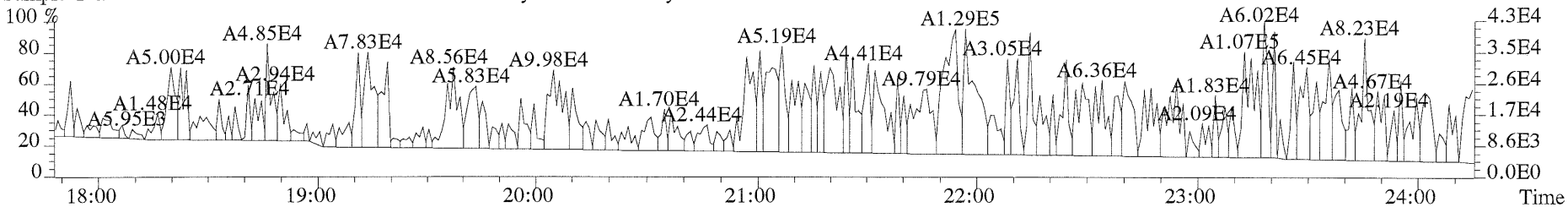
File:19SEP16Z #1-548 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



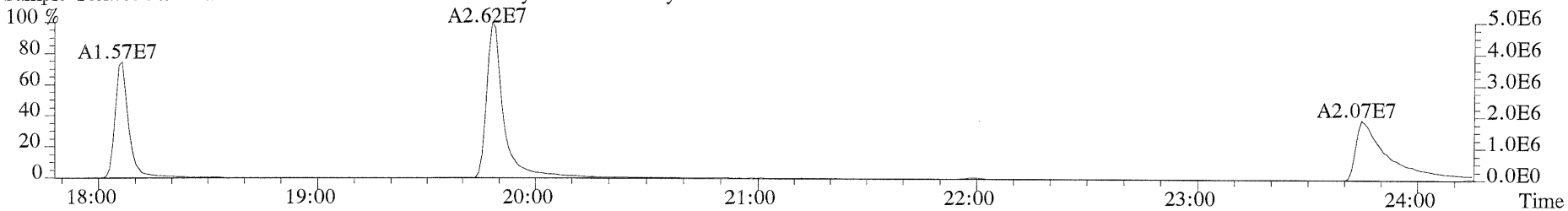
File:19SEP16Z #1-509 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



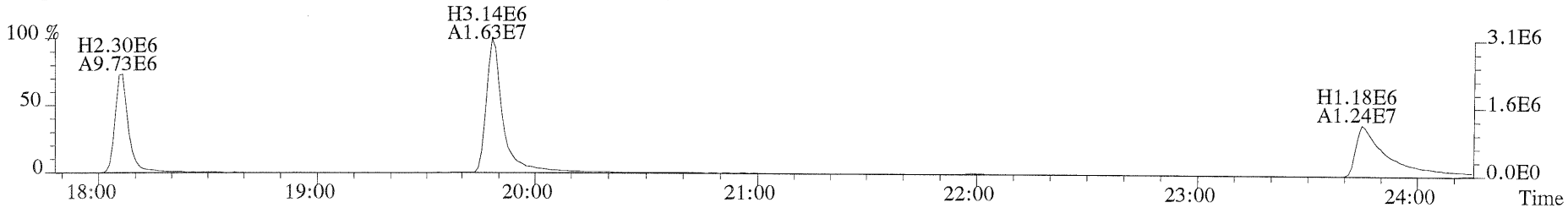
File:19SEP16Z #1-509 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



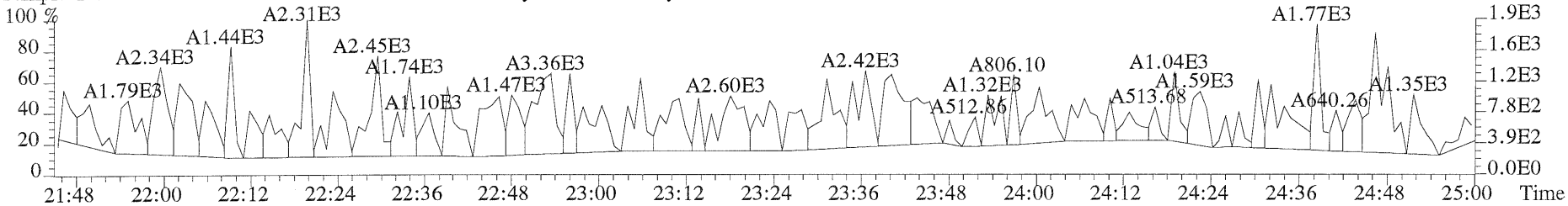
File:19SEP16Z #1-509 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



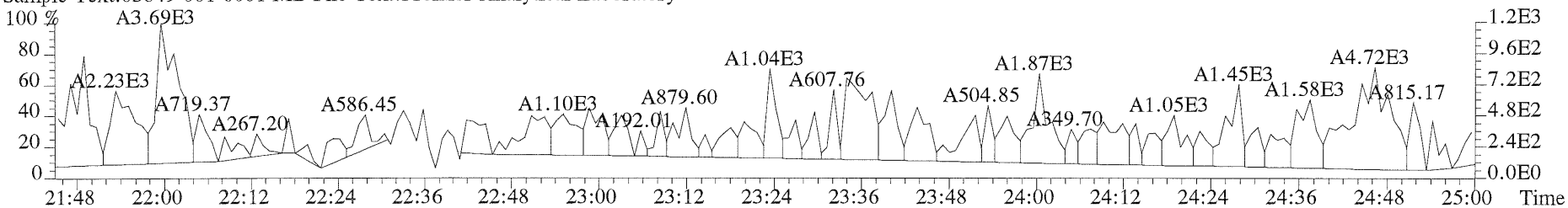
File:19SEP16Z #1-509 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



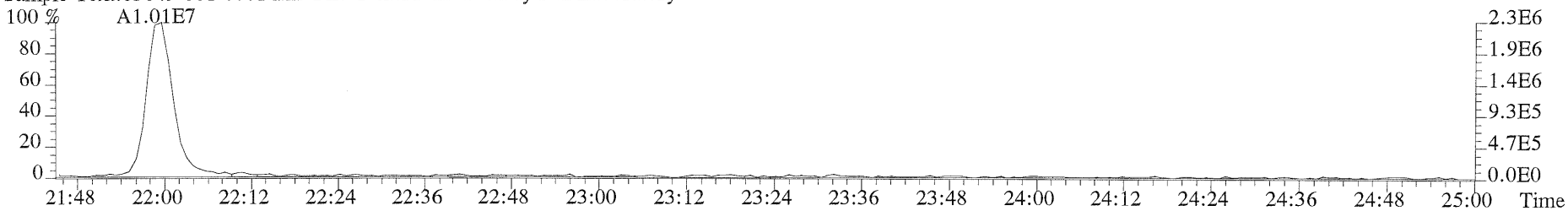
File:19SEP16Z #1-509 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



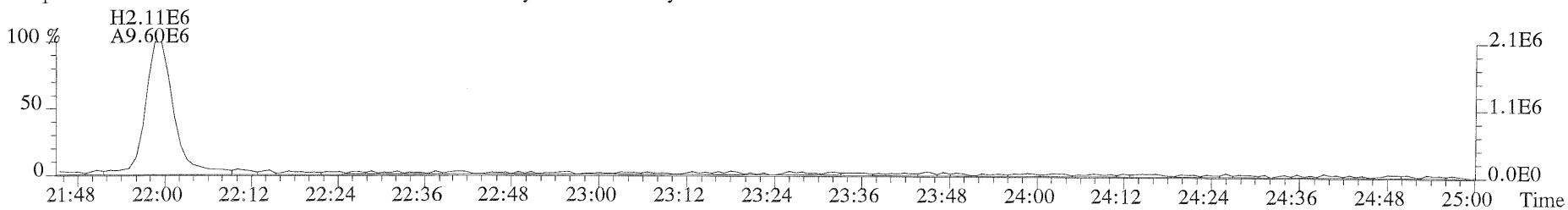
File:19SEP16Z #1-509 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



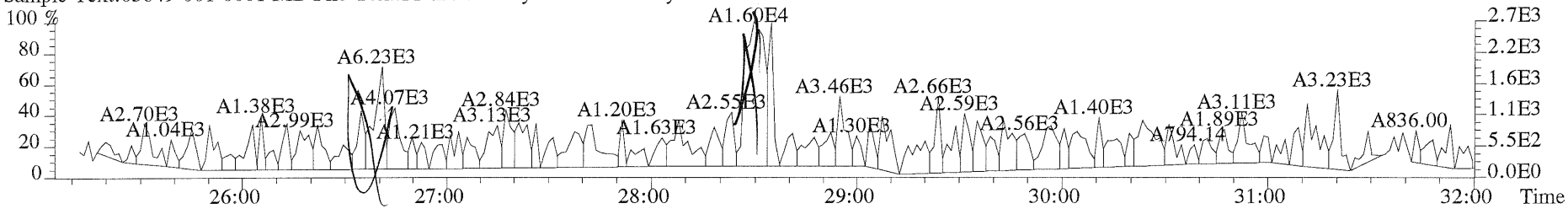
File:19SEP16Z #1-509 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



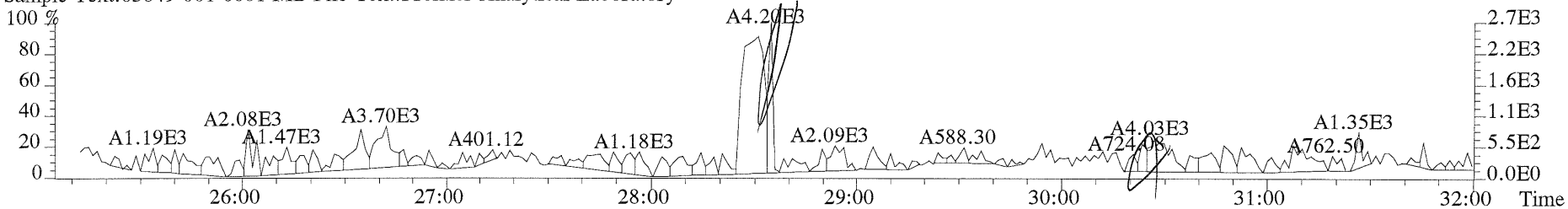
File:19SEP16Z #1-509 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



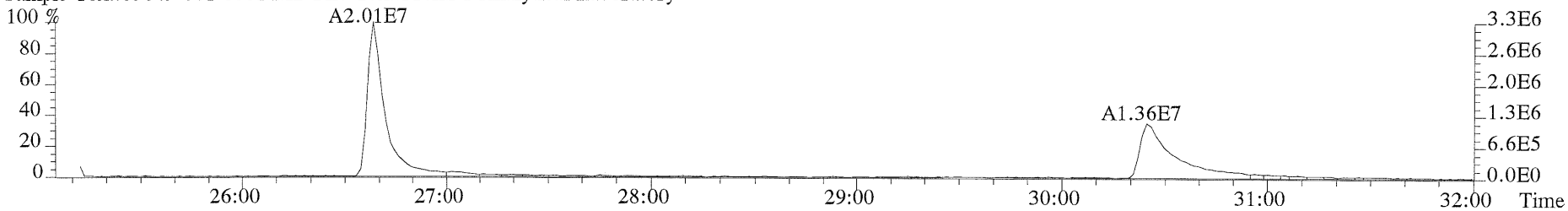
File:19SEP16Z #1-403 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



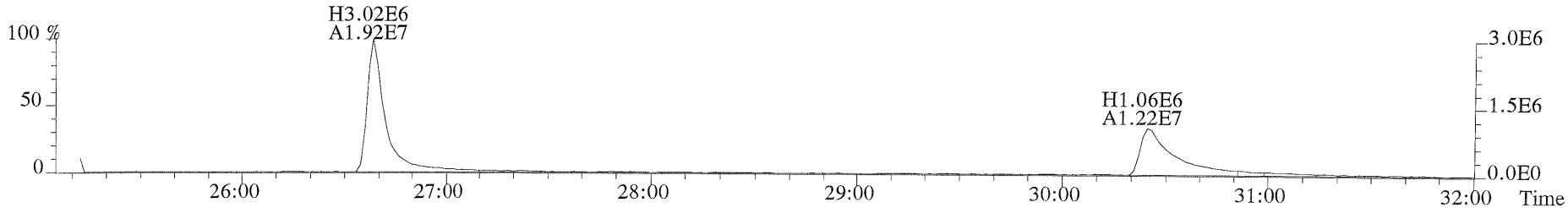
File:19SEP16Z #1-403 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



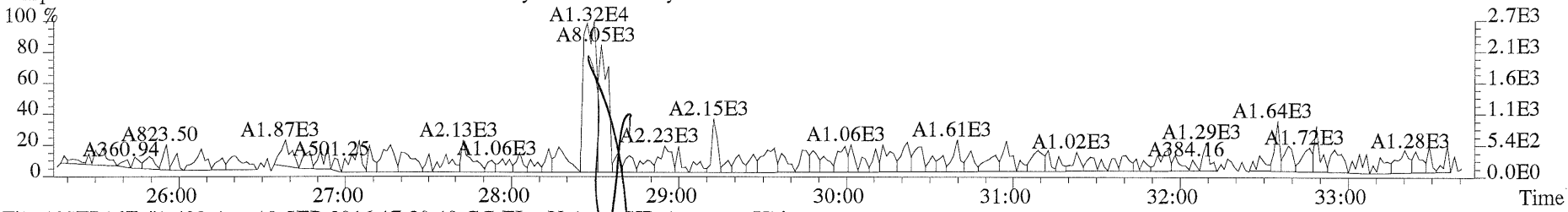
File:19SEP16Z #1-403 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



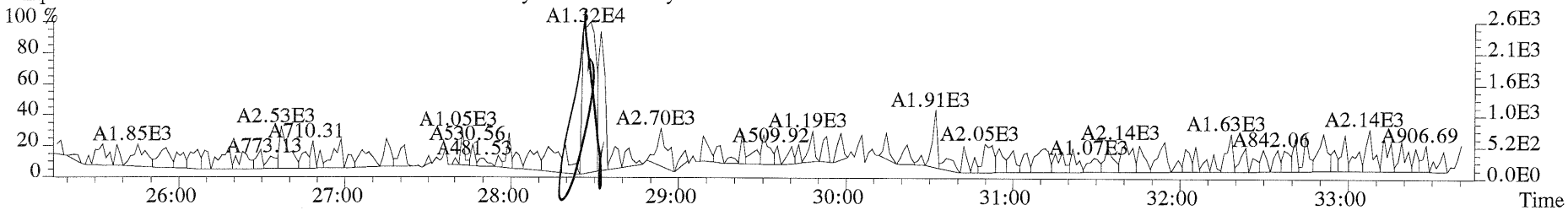
File:19SEP16Z #1-403 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



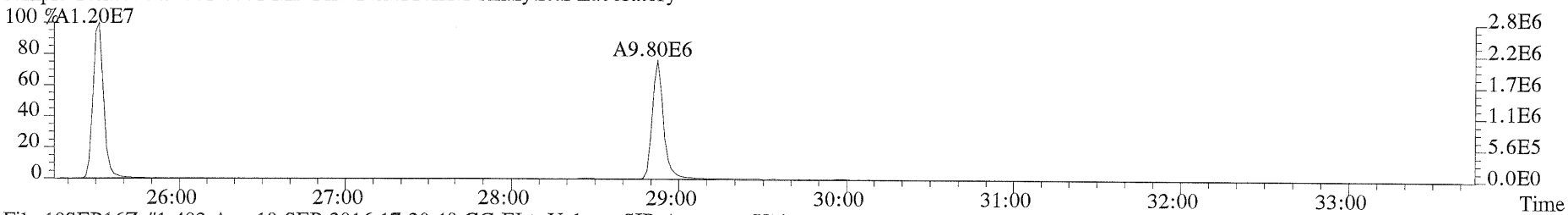
File:19SEP16Z #1-403 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



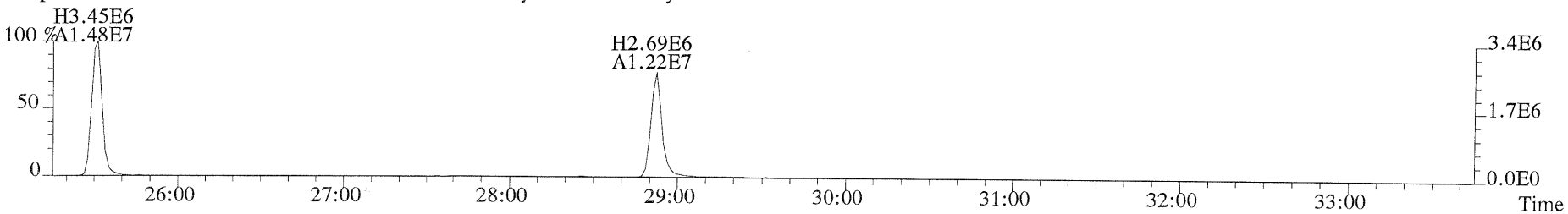
File:19SEP16Z #1-403 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



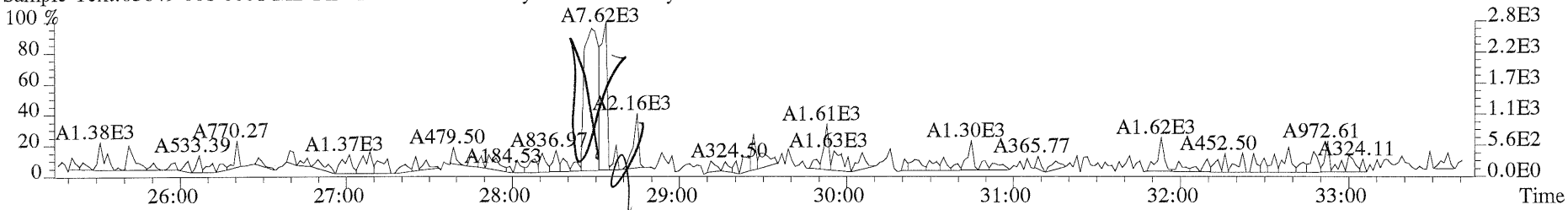
File:19SEP16Z #1-403 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



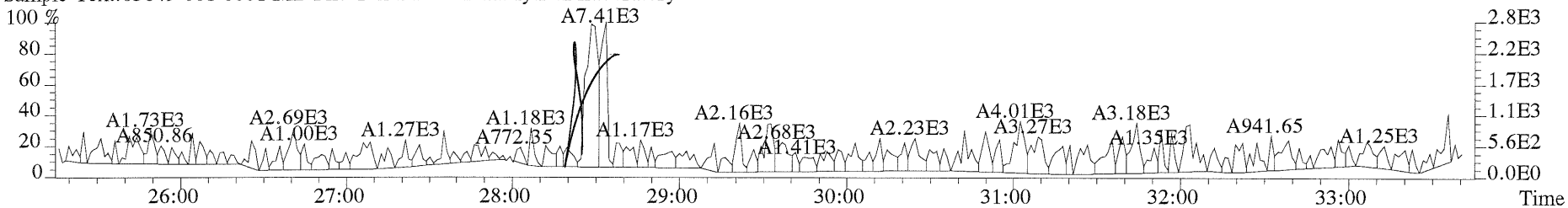
File:19SEP16Z #1-403 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



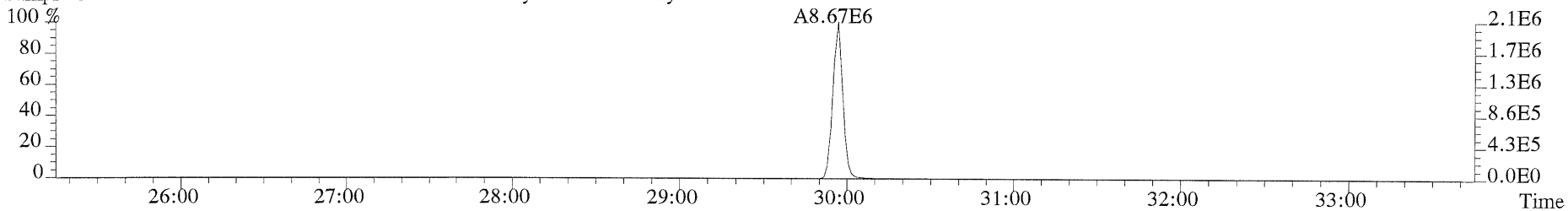
File:19SEP16Z #1-403 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



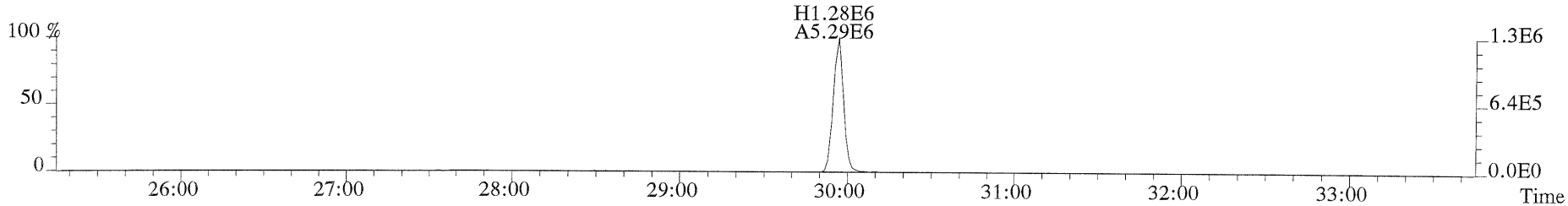
File:19SEP16Z #1-403 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



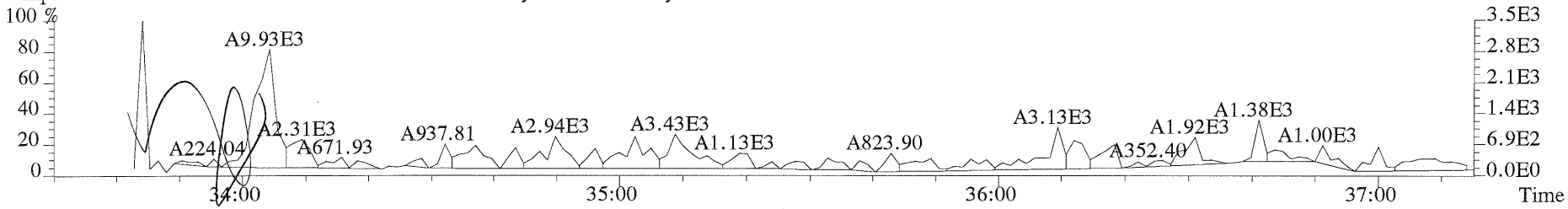
File:19SEP16Z #1-403 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



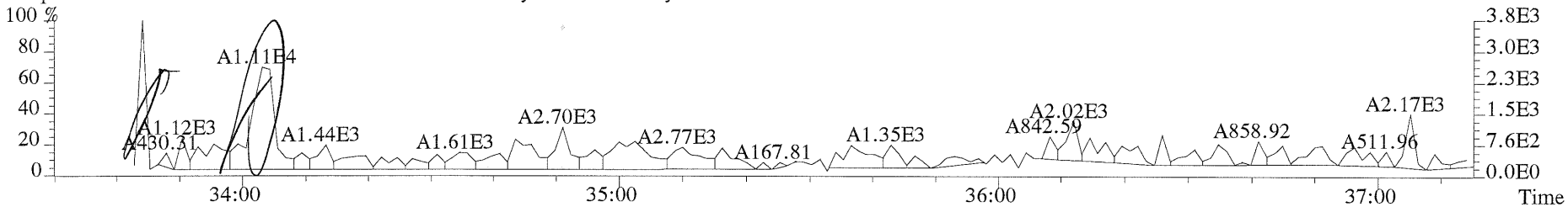
File:19SEP16Z #1-403 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



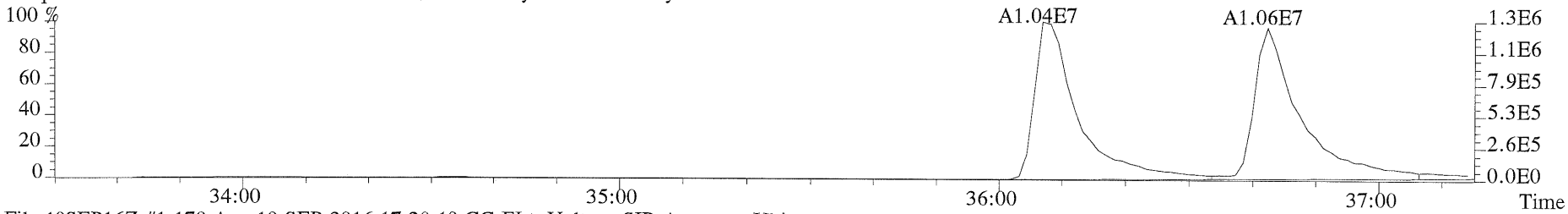
File:19SEP16Z #1-179 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



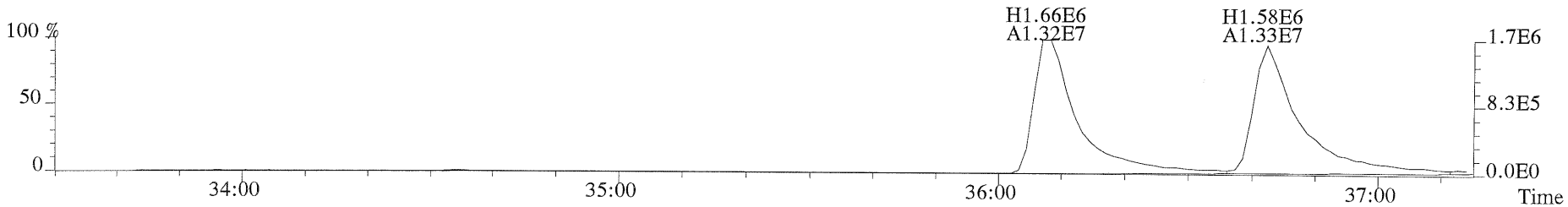
File:19SEP16Z #1-179 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



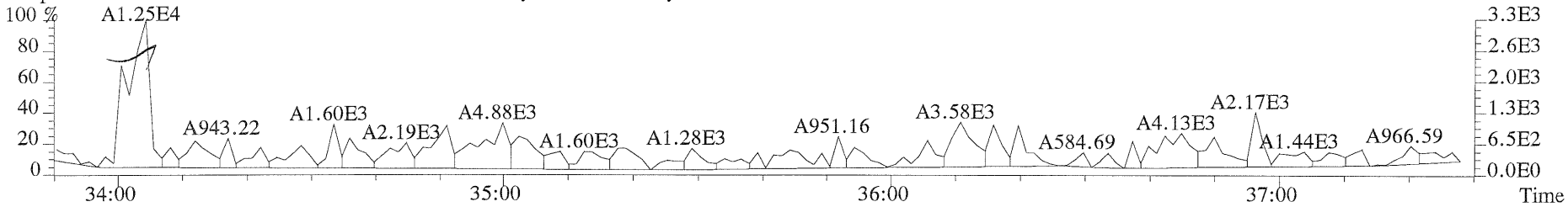
File:19SEP16Z #1-179 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



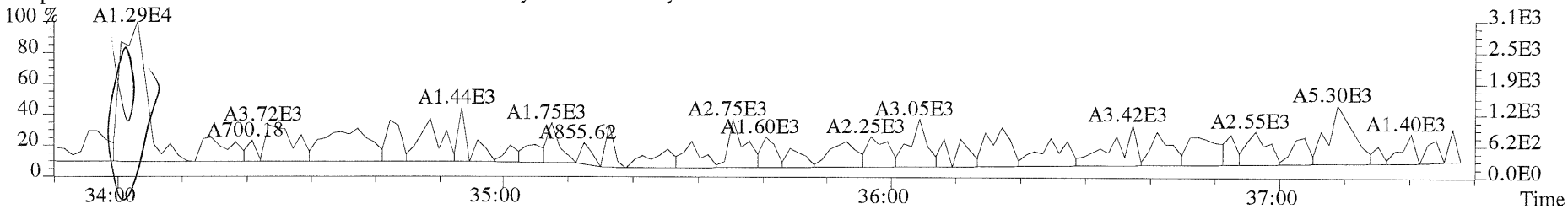
File:19SEP16Z #1-179 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



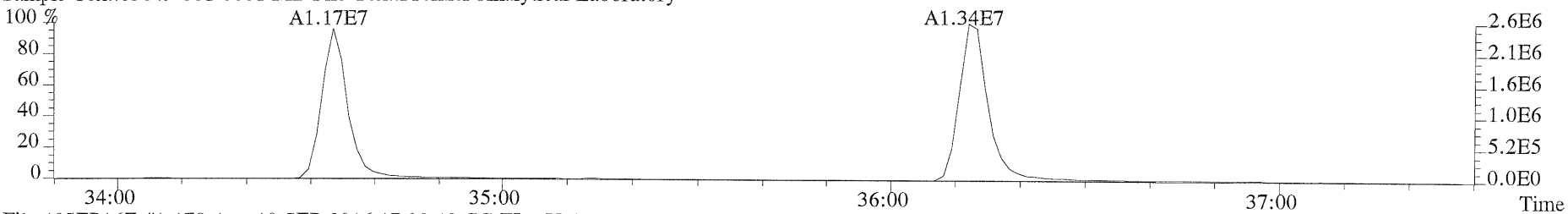
File:19SEP16Z #1-179 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



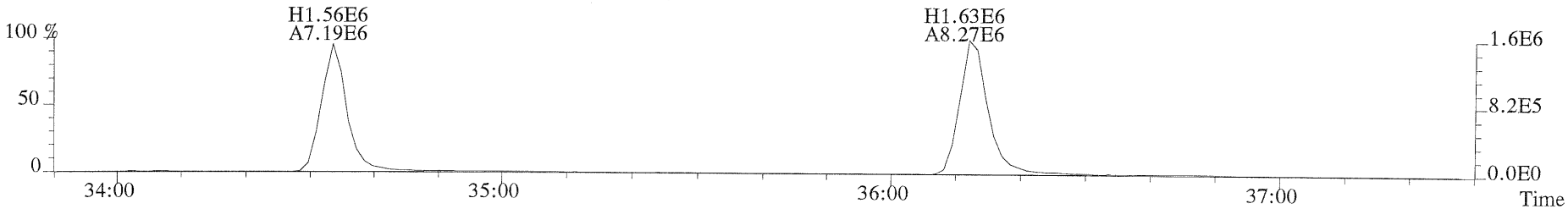
File:19SEP16Z #1-179 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



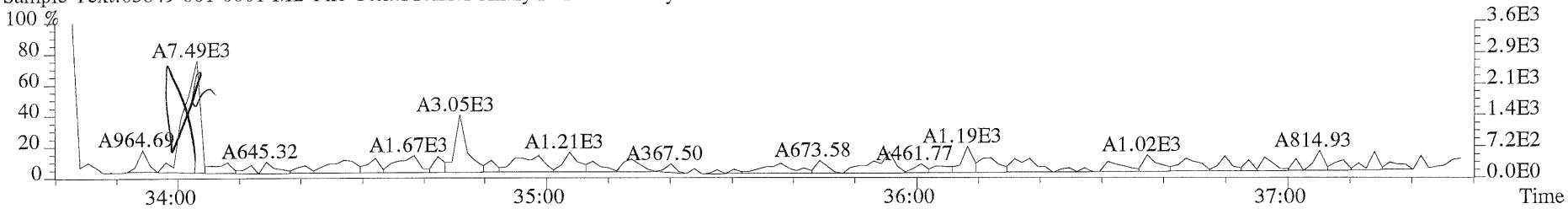
File:19SEP16Z #1-179 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:19-SEP-2016 17:20:19 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:03849-001-0001-MB File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:19-SEP-2016 17:20:19 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:03849-001-0001-MB File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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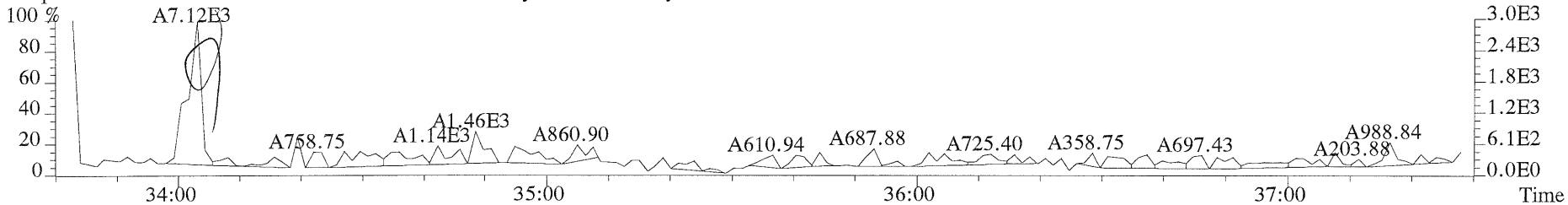

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371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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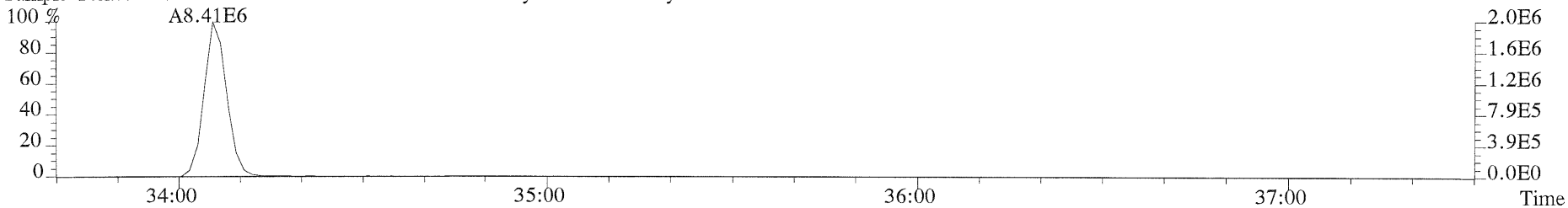

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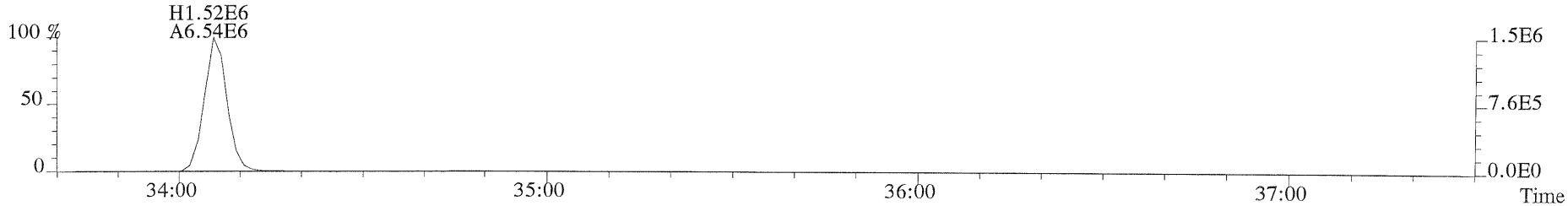
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



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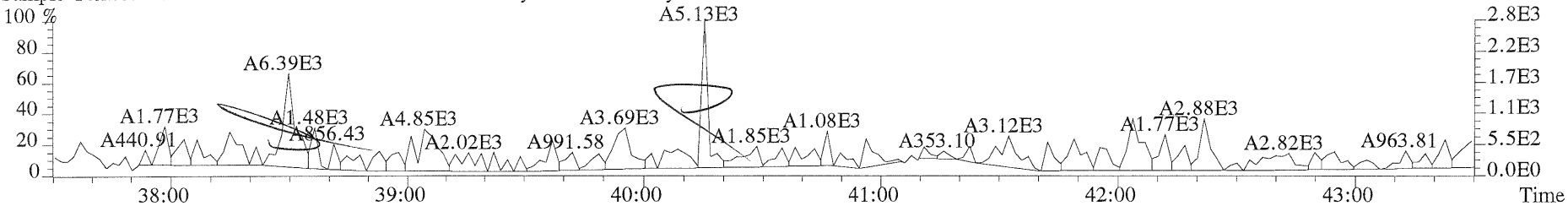
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:19-SEP-2016 17:20:19 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
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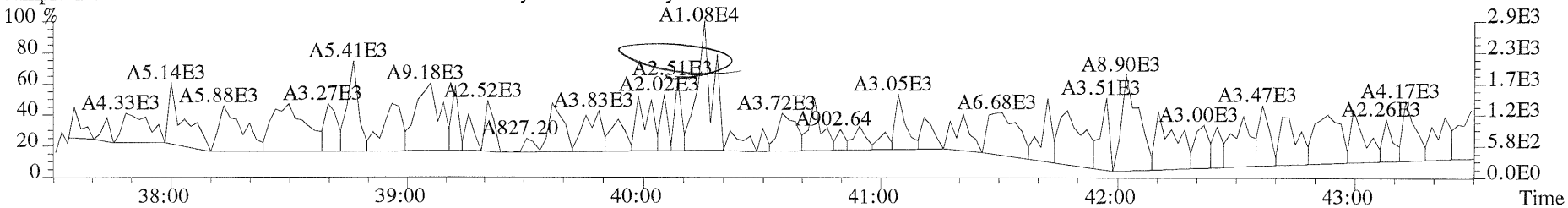

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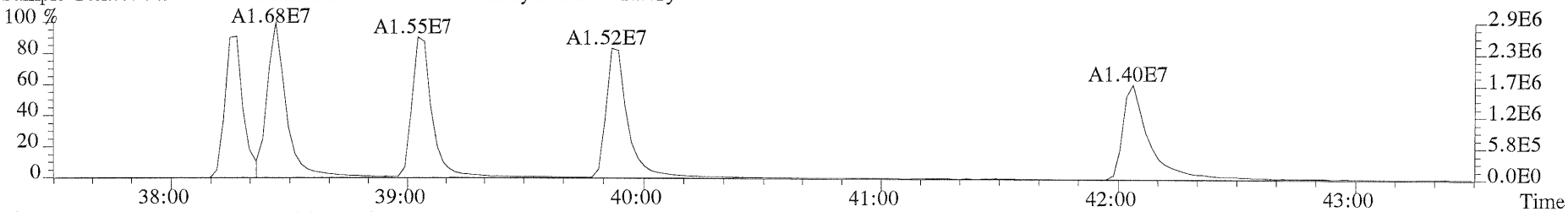
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



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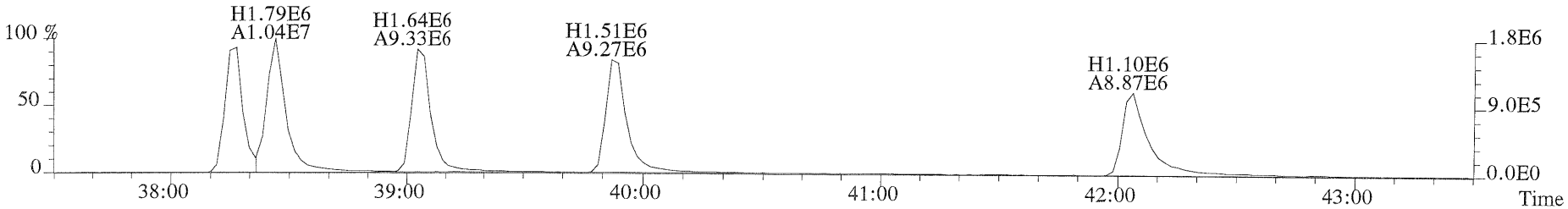
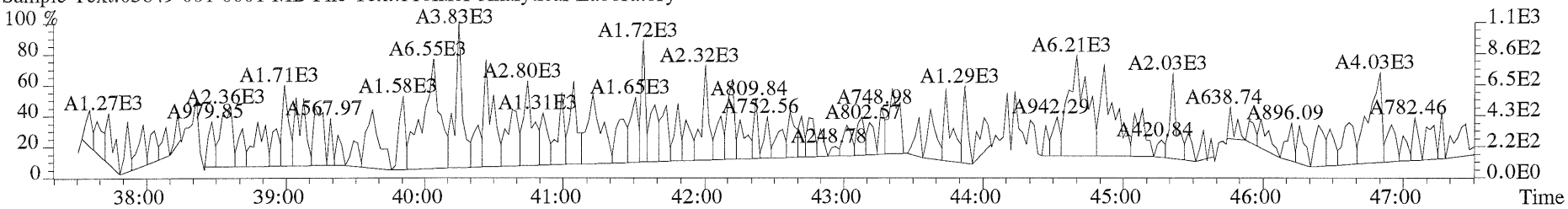
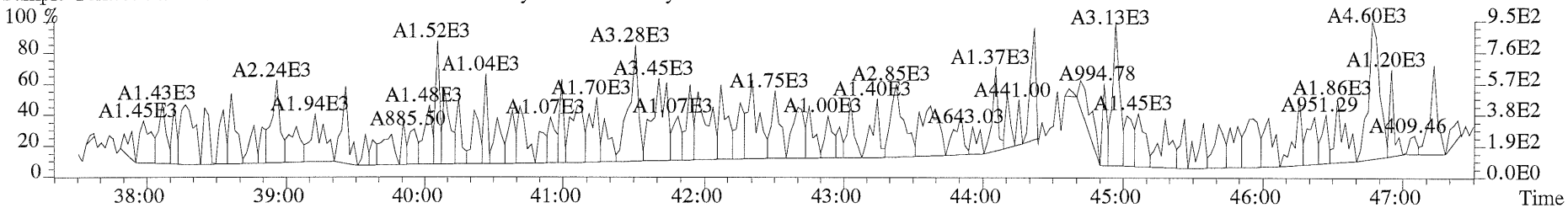
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



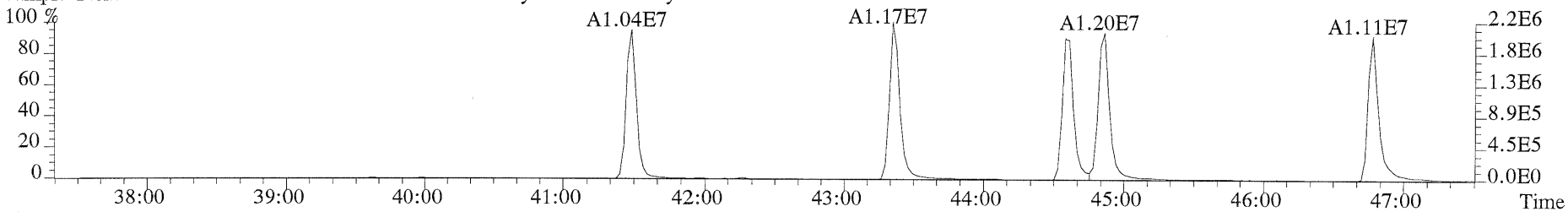
File:19SEP16Z #1-411 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:19-SEP-2016 17:20:19 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:03849-001-0001-MB File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:19-SEP-2016 17:20:19 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:03849-001-0001-MB File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:19-SEP-2016 17:20:19 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
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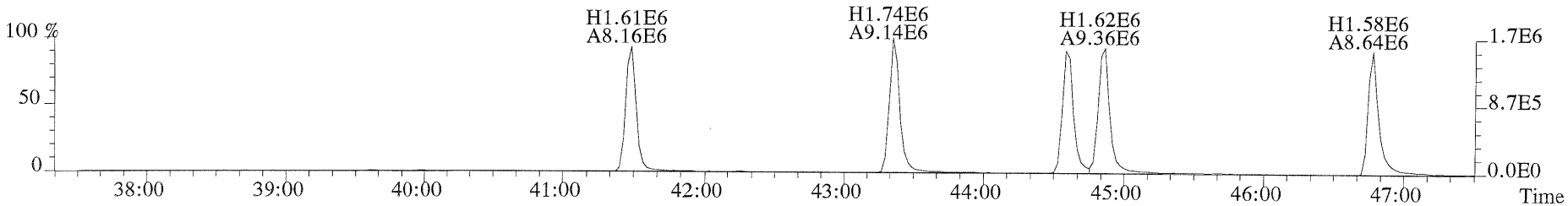

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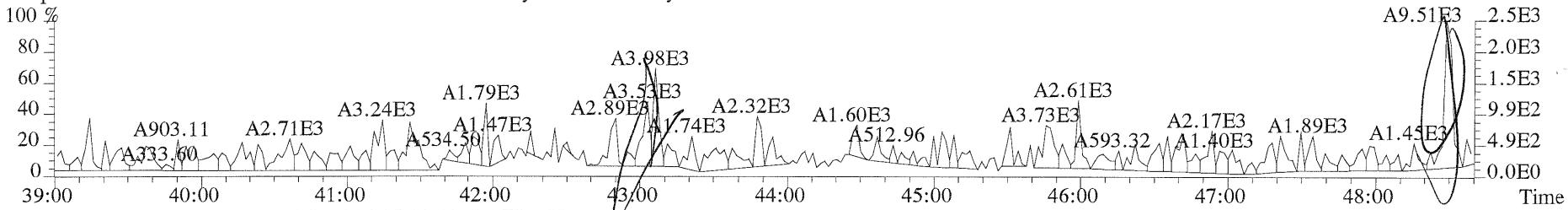
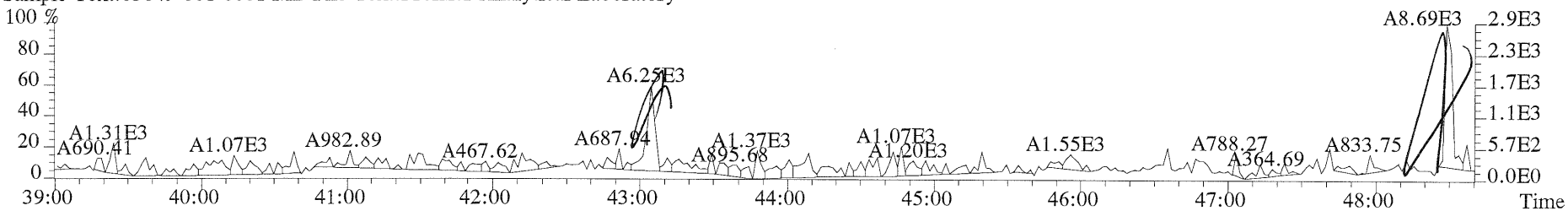
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:19-SEP-2016 17:20:19 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:03849-001-0001-MB File Text:Frontier Analytical Laboratory



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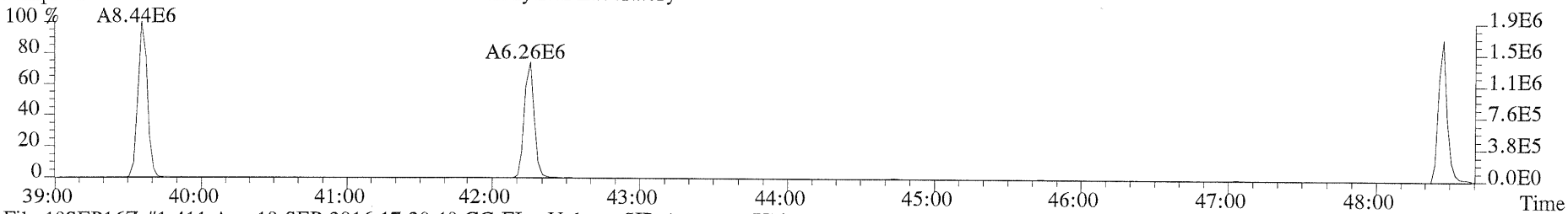

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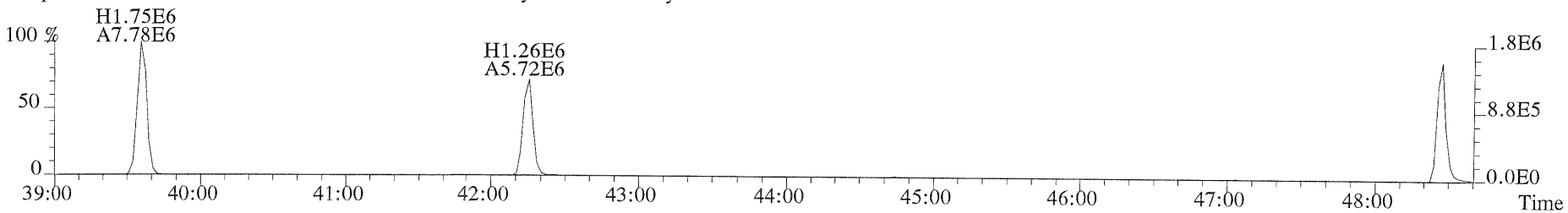
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:19-SEP-2016 17:20:19 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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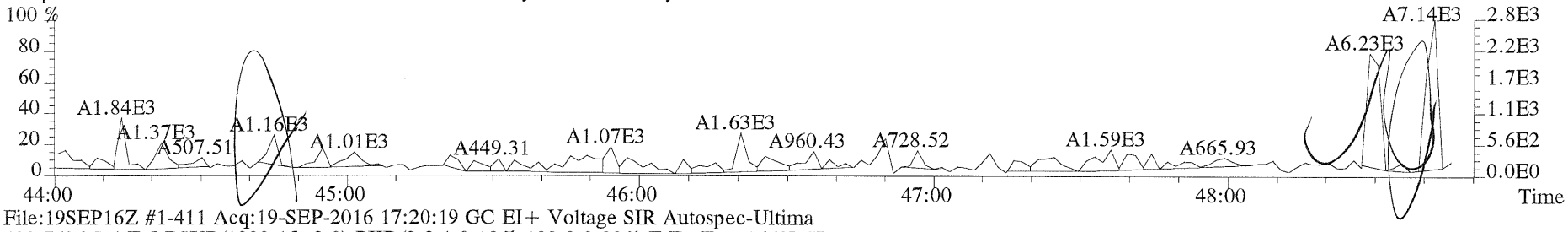

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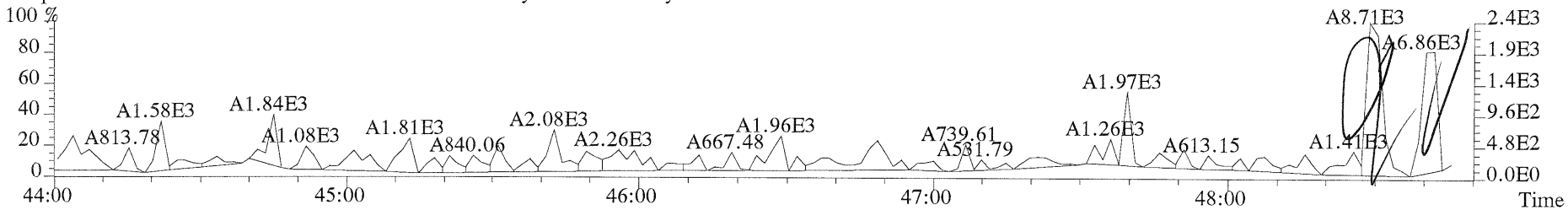
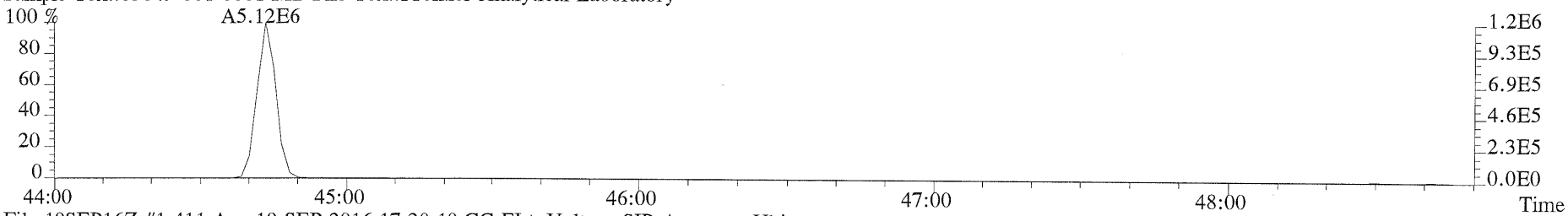
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:19-SEP-2016 17:20:19 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:03849-001-0001-MB File Text:Frontier Analytical Laboratory



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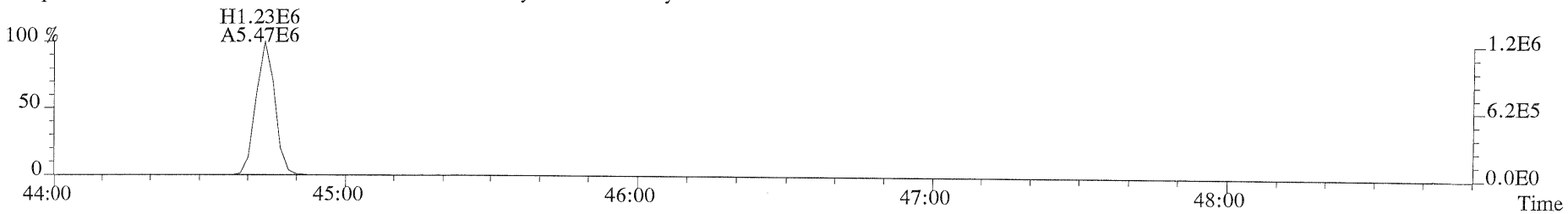
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-MB File Text:Frontier Analytical Laboratory



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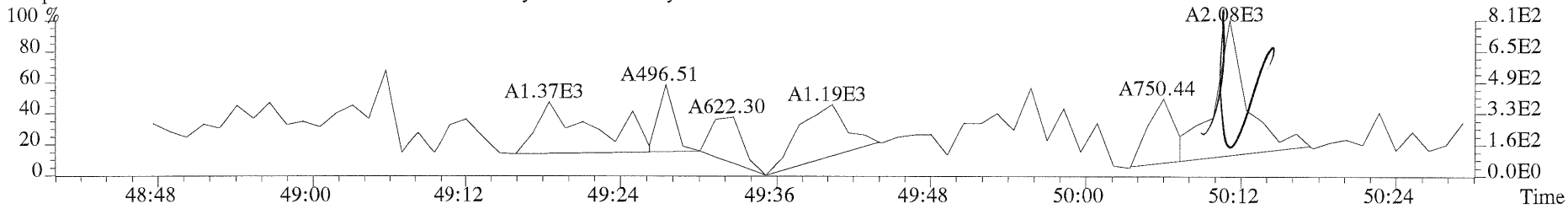

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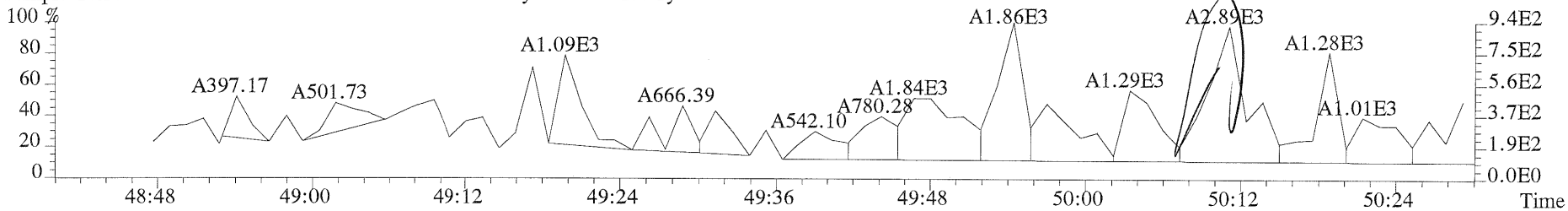

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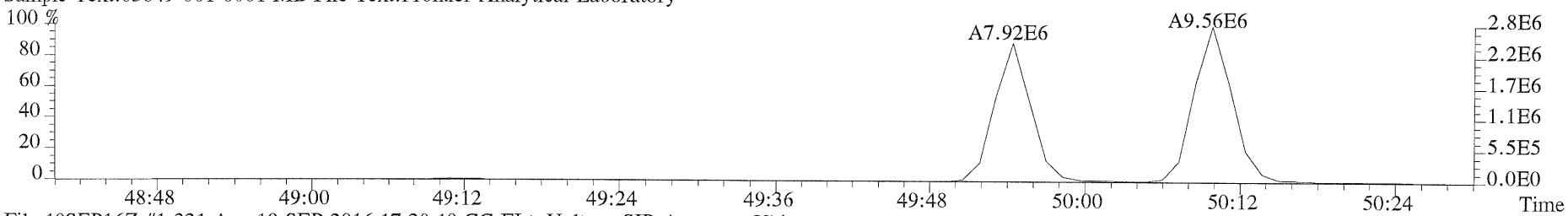

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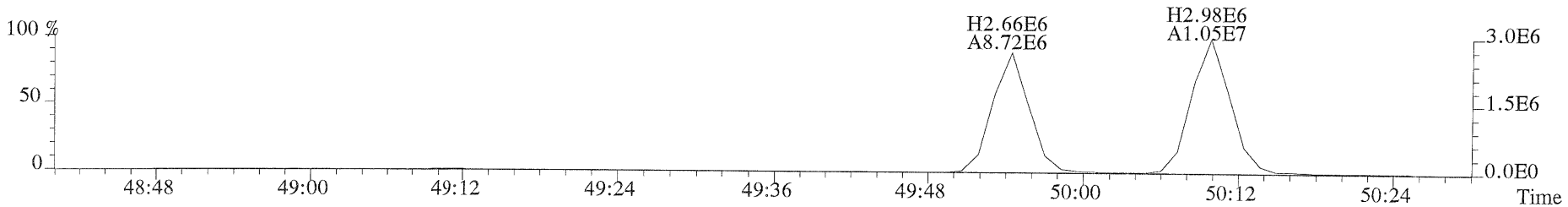

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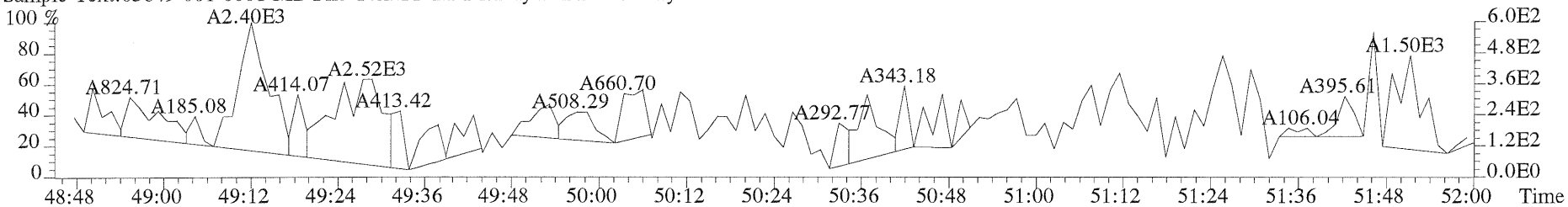

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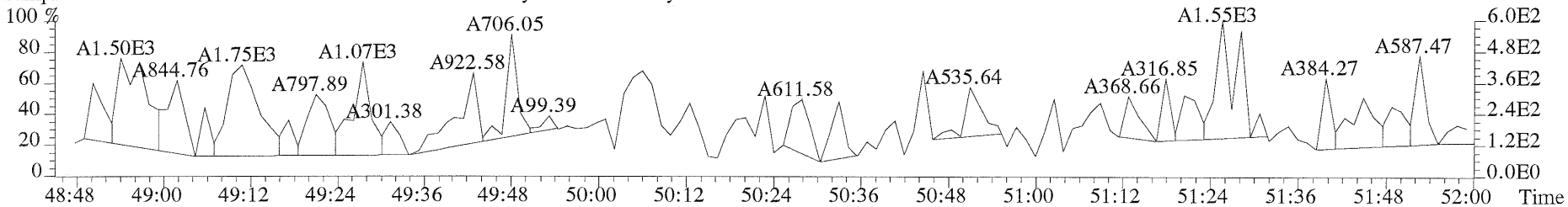

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473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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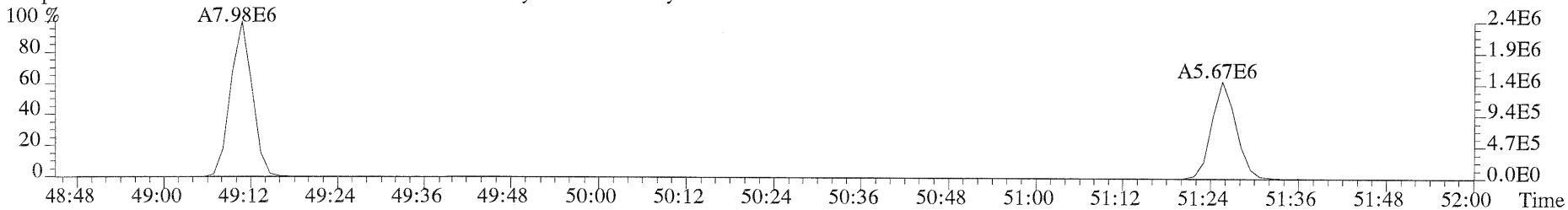

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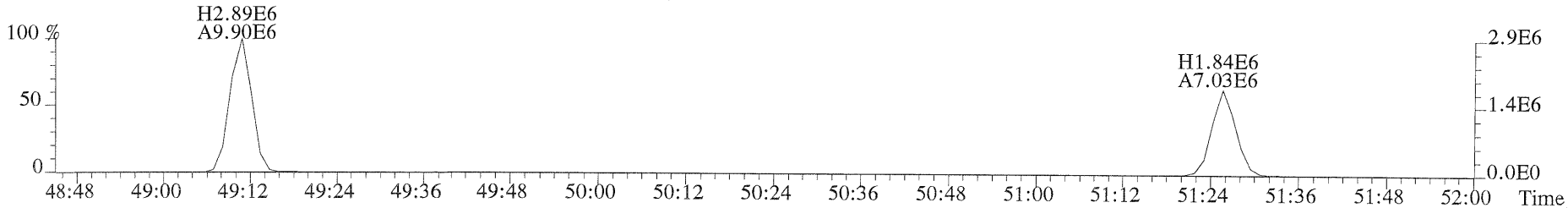

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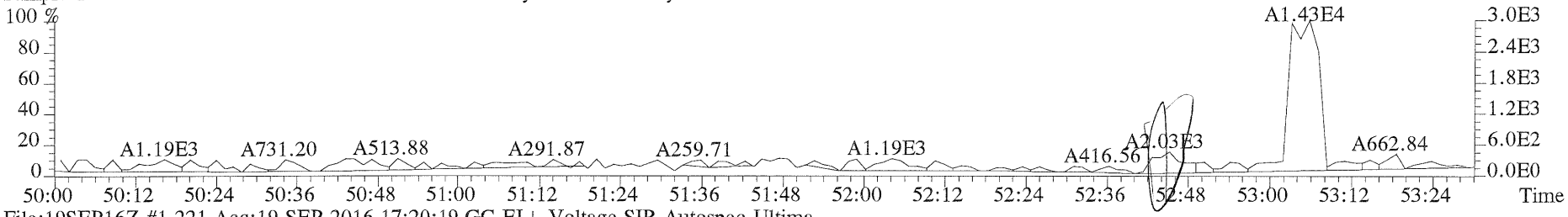

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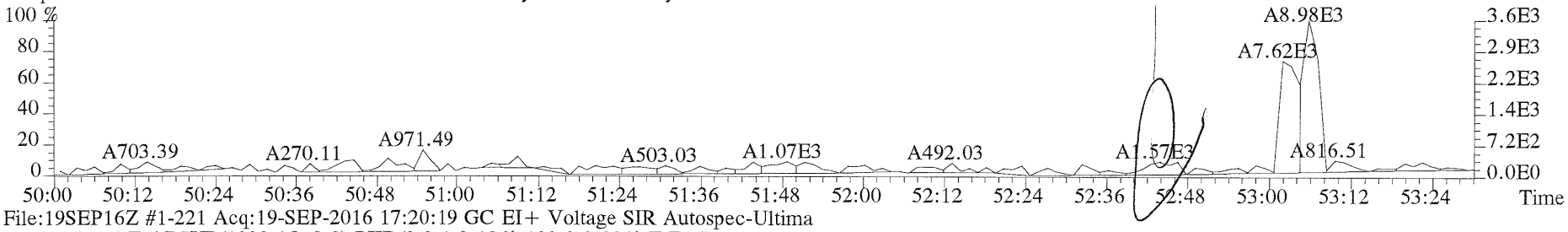

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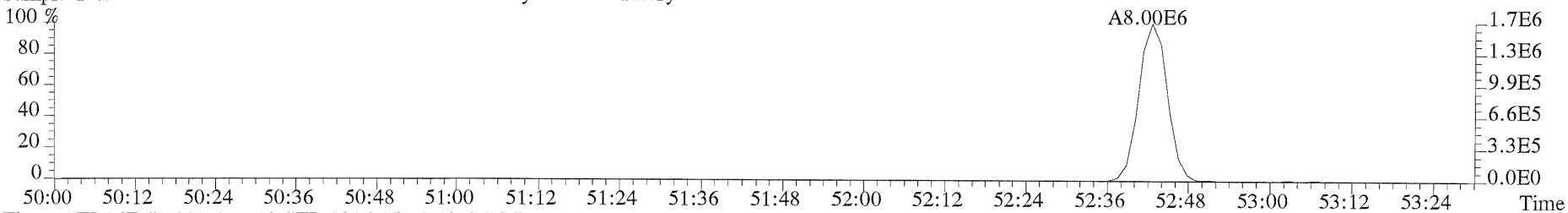

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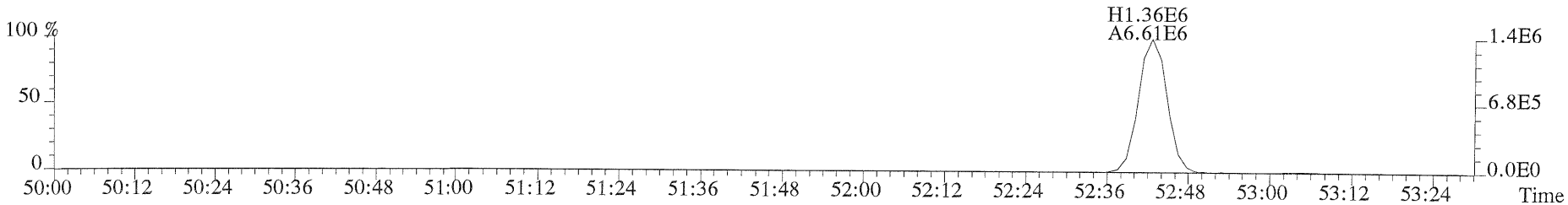


3849-001-0001-OPR

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: 19SEP16Z Sam:3

Ext. Date: 9/19/16 Shift: Day Analysis Date: 19-SEP-16 16:23:52

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	52.1	30.0 - 67.5
PCB-3	50	45.8	30.0 - 67.5
PCB-4	50	52.0	30.0 - 67.5
PCB-15	50	44.1	30.0 - 67.5
PCB-19	50	51.8	30.0 - 67.5
PCB-37	50	48.3	30.0 - 67.5
PCB-54	50	50.8	30.0 - 67.5
PCB-77	50	51.9	30.0 - 67.5
PCB-81	50	50.7	30.0 - 67.5
PCB-104	50	51.6	30.0 - 67.5
PCB-105	50	49.6	30.0 - 67.5
PCB-114	50	52.9	30.0 - 67.5
PCB-118	50	54.9	30.0 - 67.5
PCB-123	50	42.7	30.0 - 67.5
PCB-126	50	49.1	30.0 - 67.5
PCB-155	50	52.0	30.0 - 67.5
PCB-156	50	49.9	30.0 - 67.5
PCB-157	50	48.1	30.0 - 67.5
PCB-167	50	52.4	30.0 - 67.5
PCB-169	50	52.0	30.0 - 67.5
PCB-188	50	51.3	30.0 - 67.5
PCB-189	50	51.3	30.0 - 67.5
PCB-202	50	54.6	30.0 - 67.5
PCB-205	50	51.8	30.0 - 67.5
PCB-206	50	52.1	30.0 - 67.5
PCB-208	50	50.2	30.0 - 67.5
PCB-209	50	50.1	30.0 - 67.5

Analyst: b Date: 9/20/16

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: 19SEP16Z Sam:3

Ext. Date: 9/19/16 Shift: Day Analysis Date: 19-SEP-16 16:23:52

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	91.5	15.0 - 145
13C-PCB-3	100	91.2	15.0 - 145
13C-PCB-4	100	94.9	15.0 - 145
13C-PCB-15	100	86.8	15.0 - 145
13C-PCB-19	100	91.5	15.0 - 145
13C-PCB-37	100	85.3	15.0 - 145
13C-PCB-54	100	101	15.0 - 145
13C-PCB-77	100	94.9	40.0 - 145
13C-PCB-81	100	92.7	40.0 - 145
13C-PCB-104	100	94.9	40.0 - 145
13C-PCB-105	100	92.4	40.0 - 145
13C-PCB-114	100	95.0	40.0 - 145
13C-PCB-118	100	96.7	40.0 - 145
13C-PCB-123	100	91.7	40.0 - 145
13C-PCB-126	100	91.4	40.0 - 145
13C-PCB-155	100	93.1	40.0 - 145
13C-PCB-156	100	90.6	40.0 - 145
13C-PCB-157	100	94.4	40.0 - 145
13C-PCB-167	100	93.4	40.0 - 145
13C-PCB-169	100	92.2	40.0 - 145
13C-PCB-188	100	91.2	40.0 - 145
13C-PCB-189	100	95.6	40.0 - 145
13C-PCB-202	100	93.8	40.0 - 145
13C-PCB-205	100	86.9	40.0 - 145
13C-PCB-206	100	93.0	40.0 - 145
13C-PCB-208	100	94.8	40.0 - 145
13C-PCB-209	100	89.0	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	105	15.0 - 145
13C-PCB-111	100	94.7	40.0 - 145
13C-PCB-178	100	101	40.0 - 145

Analyst: _____ Date: 9/20/16

FAL ID: 03849-001-0001-OPR Filename: 19SEP16Z Sam:3 Acquired: 19-SEP-16 16:23:52 ICal: DAILY209FAL4-9-19-16 1 of 2
Client ID: OPR ConCal: ST091916Z1 EndCal: ST091916Z2
Results: 10146 GC Column: DB1 Amount: 1.000

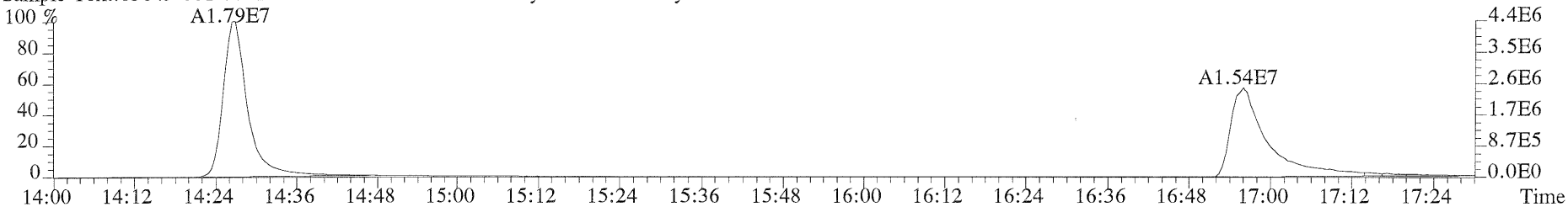
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	2.36e+07	3.16 y	14:27	1.12	52.1		2.50	-	-	*	
13C-PCB-1	4.05e+07	3.26 y	14:26	0.94	91.5		2.50				91.5
PCB-3	2.03e+07	3.10 y	16:56	1.28	45.8		2.50	-	-	*	
13C-PCB-3	3.45e+07	3.41 y	16:54	0.80	91.2		2.50				91.2
PCB-4	1.66e+07	1.56 y	18:07	1.14	52.0		2.50	-	-	*	
13C-PCB-4	2.81e+07	1.61 y	18:06	0.63	94.9		2.50				94.9
PCB-15	2.11e+07	1.52 y	23:44	1.33	44.1		2.50	-	-	*	
13C-PCB-15	3.60e+07	1.71 y	23:43	0.88	86.8		2.50				86.8
PCB-19	1.29e+07	1.04 y	21:60	1.22	51.8		2.50	-	-	*	
13C-PCB-19	2.04e+07	1.07 y	21:59	0.47	91.5		2.50				91.5
13C-PCB-9	4.72e+07	1.62 y	19:48	-	48.1		2.50				
PCB-37	1.78e+07	0.99 y	30:24	1.29	48.3		2.50	-	-	*	
13C-PCB-37	2.86e+07	0.95 y	30:22	1.43	85.3		2.50				85.3
PCB-54	1.69e+07	0.78 y	25:32	1.17	50.8		2.50	-	-	*	
13C-PCB-54	2.85e+07	0.81 y	25:30	1.20	101		2.50				101
PCB-104	9.39e+06	1.58 y	29:58	1.25	51.6		2.50	-	-	*	
13C-PCB-104	1.46e+07	1.61 y	29:56	0.66	94.9		2.50				94.9
13C-PCB-28	4.03e+07	1.03 y	26:37	1.63	105		2.50				105
13C-PCB-52	2.35e+07	0.79 y	28:51	-	44.0		2.50				
PCB-81	1.53e+07	0.78 y	36:07	1.23	50.7		2.50	-	-	*	
13C-PCB-81	2.45e+07	0.80 y	36:07	1.35	92.7		2.50				92.7
PCB-77	1.52e+07	0.79 y	36:43	1.14	51.9		2.50	-	-	*	
13C-PCB-77	2.56e+07	0.81 y	36:41	1.37	94.9		2.50				94.9
PCB-155	9.39e+06	1.27 y	34:07	1.18	52.0		2.50	-	-	*	
13C-PCB-155	1.53e+07	1.29 y	34:06	0.84	93.1		2.50				93.1
13C-PCB-111	2.17e+07	1.60 y	36:12	1.16	94.7		2.50				94.7
13C-PCB-101	1.97e+07	1.58 y	34:34	-	43.3		2.50				
PCB-123	1.33e+07	1.59 y	38:17	1.34	42.7		2.50	-	-	*	
13C-PCB-123	2.33e+07	1.67 y	38:15	1.34	91.7		2.50				91.7
PCB-118	1.58e+07	1.59 y	38:27	1.08	54.9		2.50	-	-	*	
13C-PCB-118	2.66e+07	1.54 y	38:25	1.45	96.7		2.50				96.7
PCB-114	1.43e+07	1.57 y	39:05	1.10	52.9		2.50	-	-	*	
13C-PCB-114	2.46e+07	1.60 y	39:03	1.36	95.0		2.50				95.0
PCB-105	1.39e+07	1.61 y	39:54	1.16	49.6		2.50	-	-	*	
13C-PCB-105	2.42e+07	1.61 y	39:52	1.38	92.4		2.50				92.4
PCB-126	1.26e+07	1.63 y	42:04	1.17	49.1		2.50	-	-	*	
13C-PCB-126	2.20e+07	1.66 y	42:02	1.27	91.4		2.50				91.4
PCB-167	1.13e+07	1.28 y	43:23	1.06	52.4		2.50	-	-	*	
13C-PCB-167	2.03e+07	1.28 y	43:22	1.15	93.4		2.50				93.4
PCB-156	1.06e+07	1.25 y	44:37	1.12	49.9		2.50	-	-	*	
13C-PCB-156	1.89e+07	1.30 y	44:36	1.10	90.6		2.50				90.6
PCB-157	1.10e+07	1.26 y	44:52	1.13	48.1		2.50	-	-	*	
13C-PCB-157	2.02e+07	1.30 y	44:50	1.13	94.4		2.50				94.4
PCB-169	1.03e+07	1.26 y	46:47	1.07	52.0		2.50	-	-	*	
13C-PCB-169	1.84e+07	1.25 y	46:46	1.05	92.2		2.50				92.2
PCB-188	1.04e+07	1.07 y	39:38	1.25	51.3		2.50	-	-	*	
13C-PCB-188	1.62e+07	1.08 y	39:36	0.94	91.2		2.50				91.2
PCB-189	7.98e+06	1.06 y	48:28	1.23	51.3		2.50	-	-	*	
13C-PCB-189	1.27e+07	1.08 y	48:28	0.70	95.6		2.50				95.6
PCB-202	5.76e+06	0.89 y	44:45	1.05	54.6		2.50	-	-	*	
13C-PCB-202	1.01e+07	0.91 y	44:44	0.57	93.8		2.50				93.8
13C-PCB-178	1.15e+07	1.09 y	42:14	0.60	101		2.50				101
13C-PCB-138	1.90e+07	1.26 y	41:30	-	43.6		2.50				

FAL ID: 03849-001-0001-OPR Filename: 19SEP16Z Sam:3 Acquired: 19-SEP-16 16:23:52 ICal: DAILY209FAL4-9-19-16 2 of 2
Client ID: OPR ConCal: ST091916Z1 EndCal: ST091916Z2
Results: 10146 GC Column: DB1 Amount: 1.000

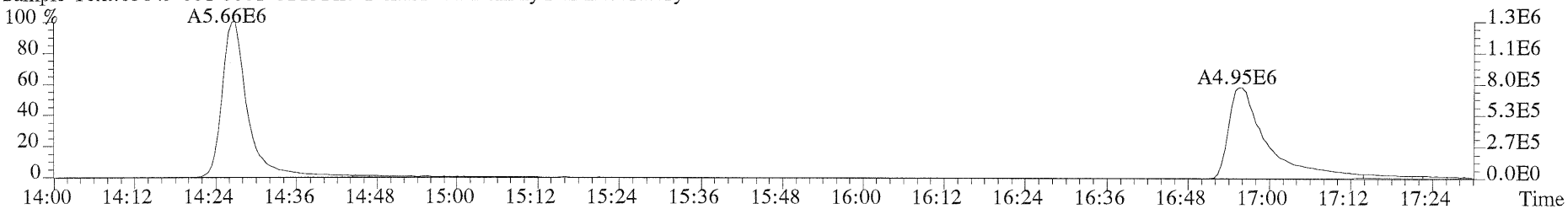
PCB-205	9.94e+06	0.88 y	50:12	1.07	51.8	2.50	-	-	*	
13C-PCB-205	1.79e+07	0.90 y	50:10	1.27	86.9	2.50				86.9
PCB-208	9.08e+06	1.37 y	49:11	1.03	50.2	2.50	-	-	*	
13C-PCB-208	1.75e+07	0.80 y	49:10	1.14	94.8	2.50				94.8
PCB-206	6.15e+06	1.38 y	51:27	1.04	52.1	2.50	-	-	*	
13C-PCB-206	1.13e+07	0.80 y	51:26	0.75	93.0	2.50				93.0
PCB-209	7.72e+06	1.18 y	52:43	1.16	50.1	2.50	-	-	*	
13C-PCB-209	1.33e+07	1.21 y	52:43	0.93	89.0	2.50				89.0
13C-PCB-194	1.62e+07	0.92 y	49:54	-	43.4	2.50				

Analyst: [illegible] Date: 9/20/16

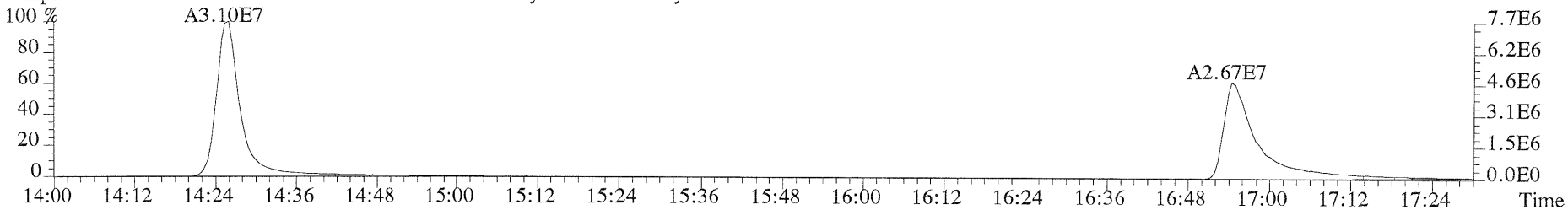
File:19SEP16Z #1-549 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



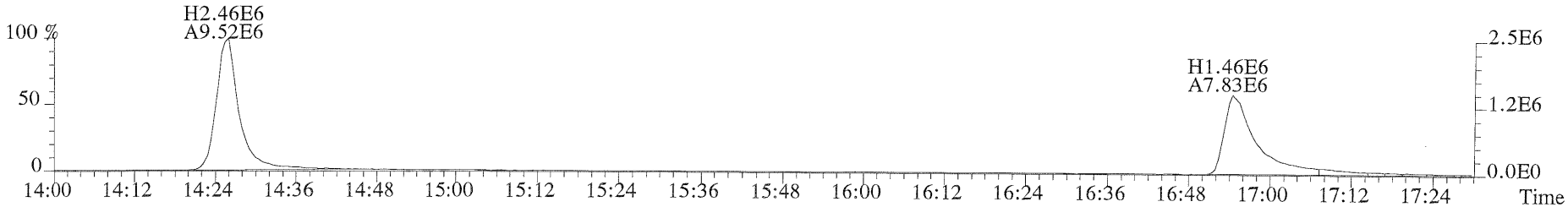
File:19SEP16Z #1-549 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



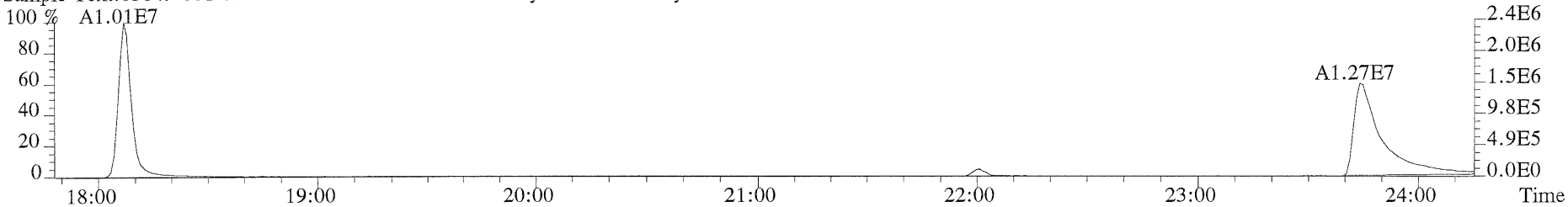
File:19SEP16Z #1-549 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



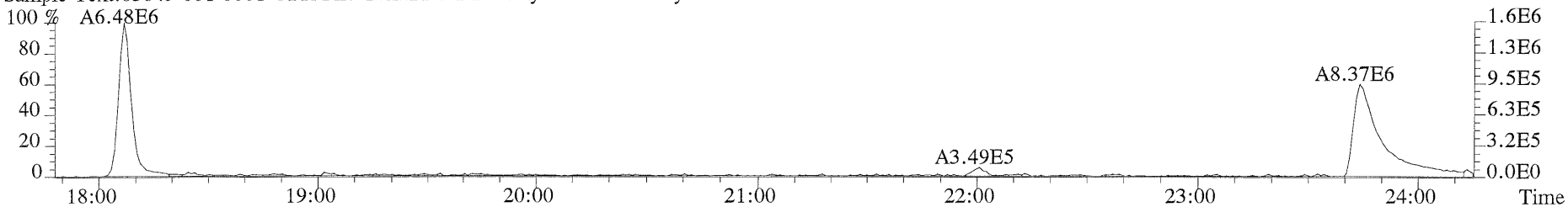
File:19SEP16Z #1-549 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



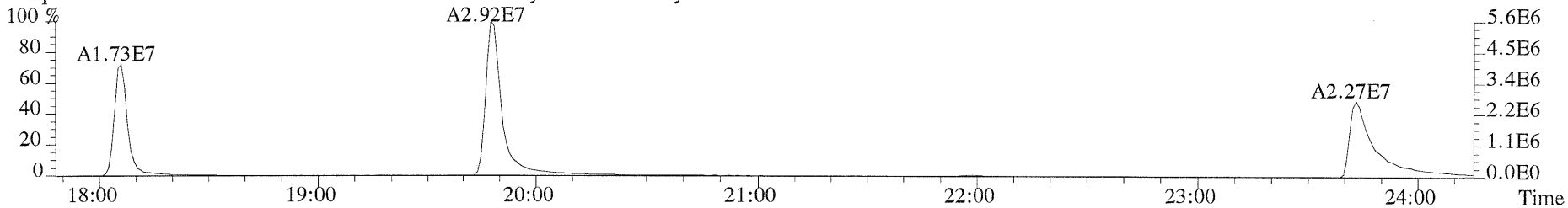
File:19SEP16Z #1-509 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



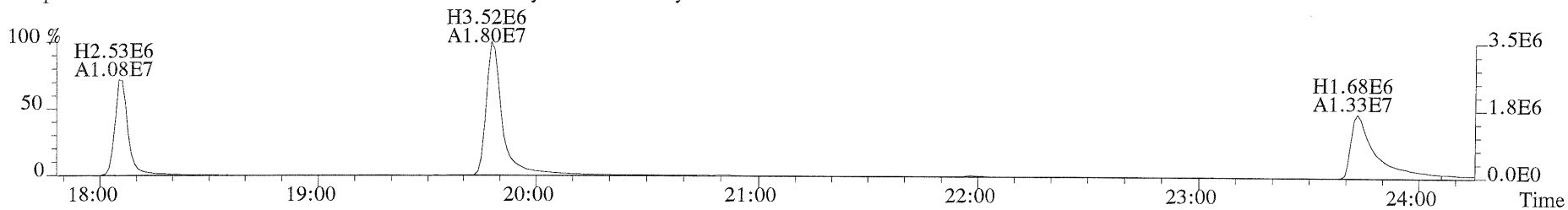
File:19SEP16Z #1-509 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



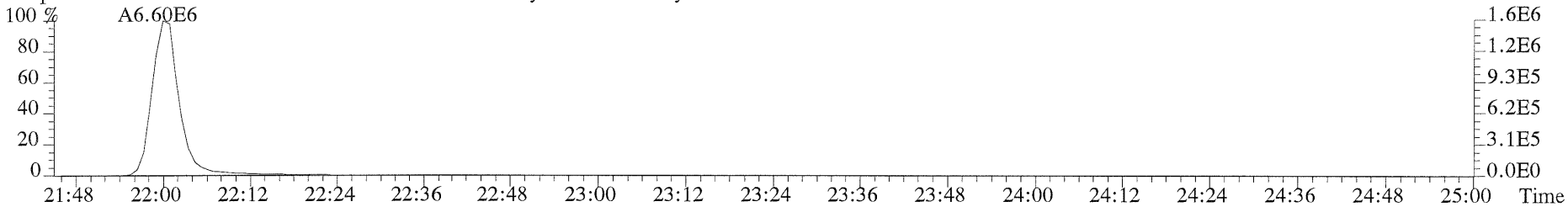
File:19SEP16Z #1-509 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



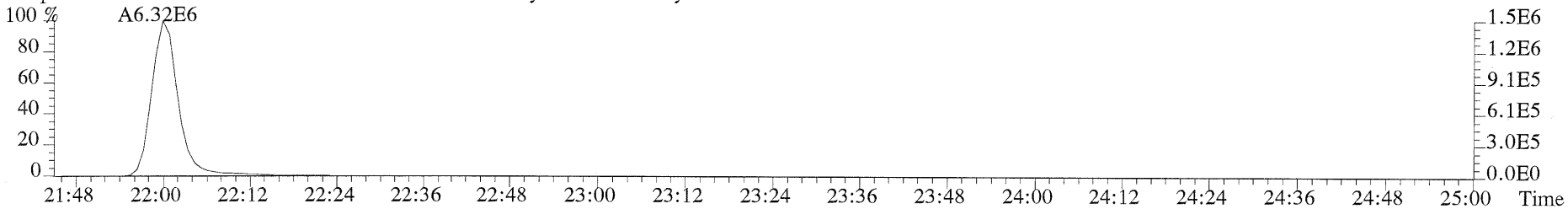
File:19SEP16Z #1-509 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



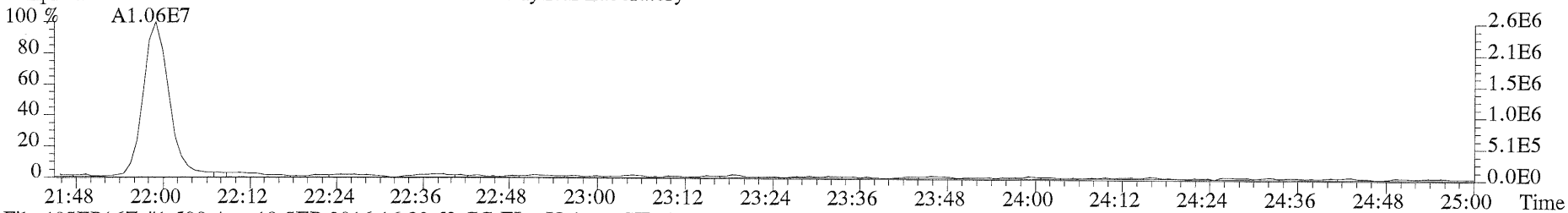
File:19SEP16Z #1-509 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



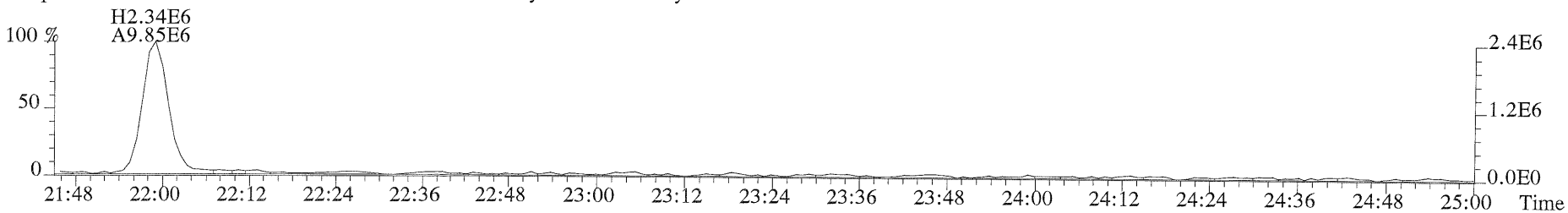
File:19SEP16Z #1-509 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



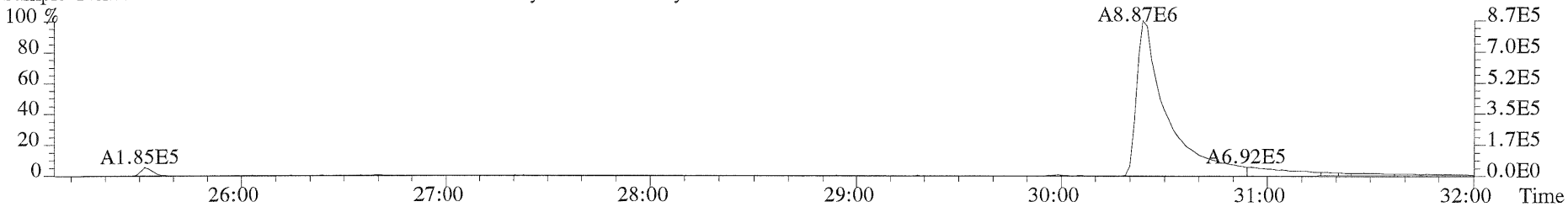
File:19SEP16Z #1-509 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



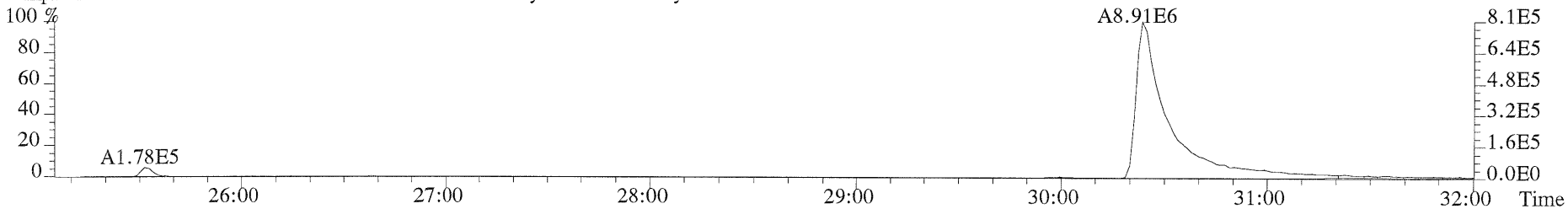
File:19SEP16Z #1-509 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



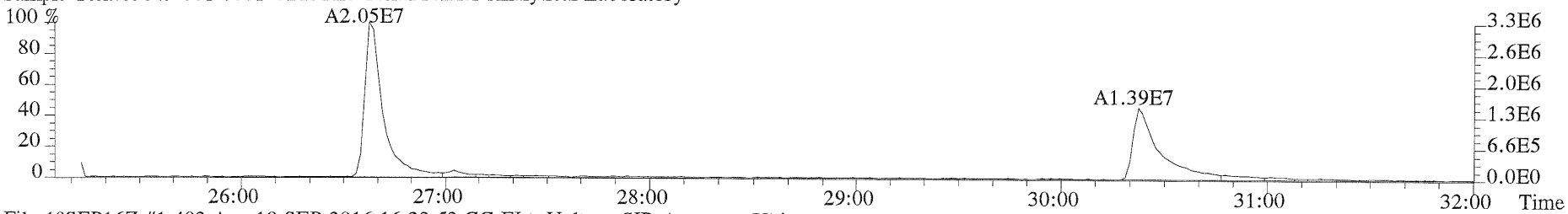
File:19SEP16Z #1-403 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



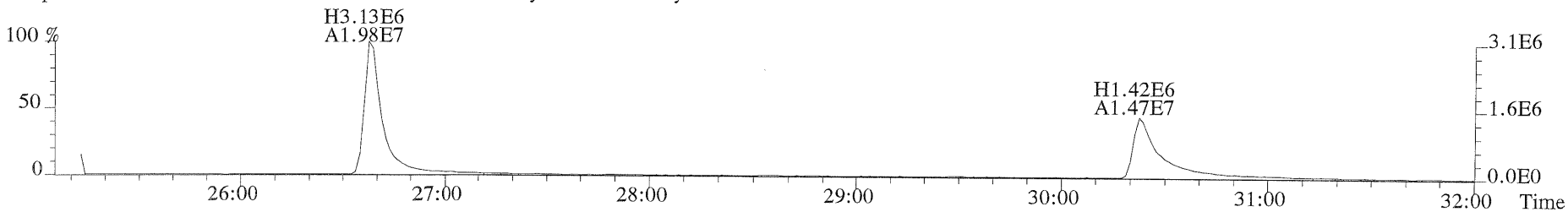
File:19SEP16Z #1-403 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-403 Acq:19-SEP-2016 16:23:52 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:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-403 Acq:19-SEP-2016 16:23:52 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:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



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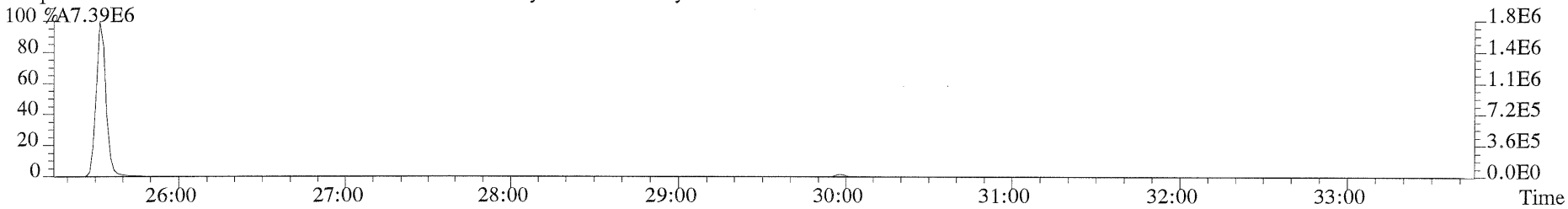
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



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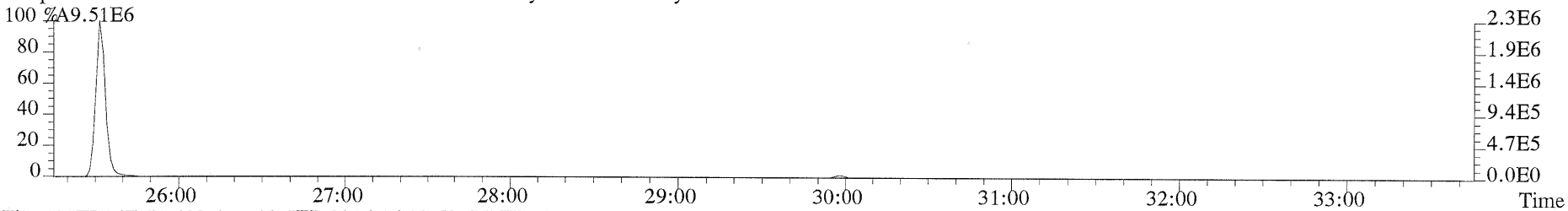
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



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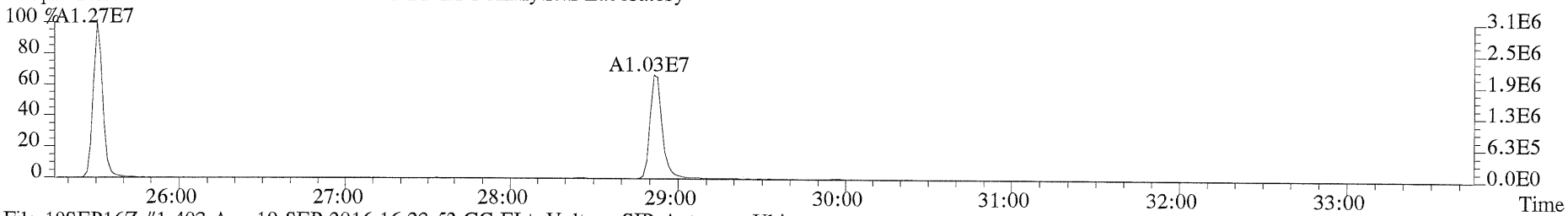
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



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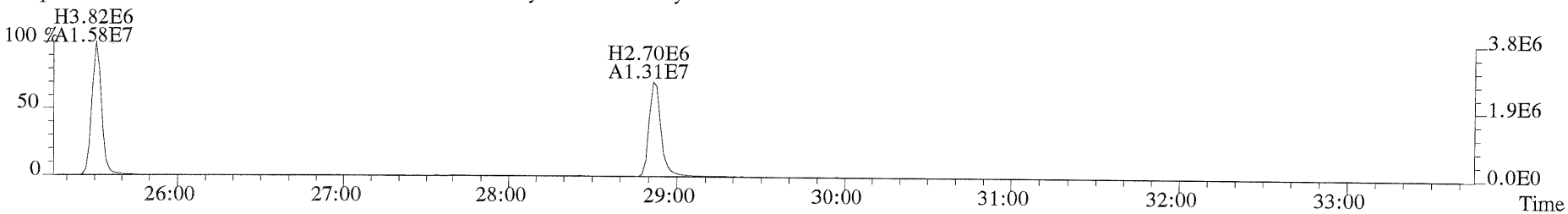
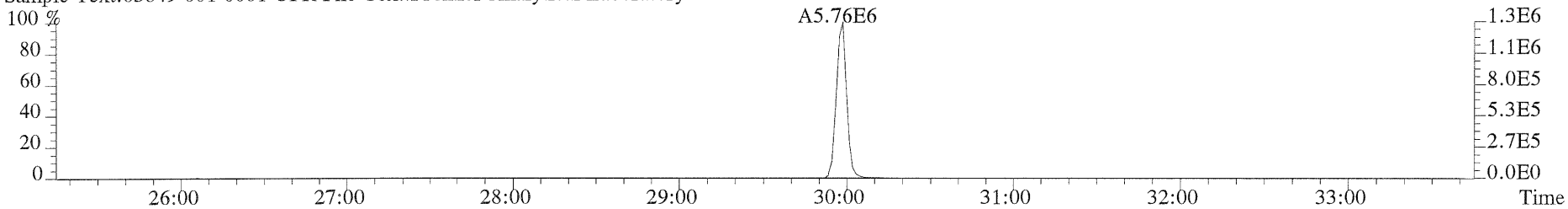
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-403 Acq:19-SEP-2016 16:23:52 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:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



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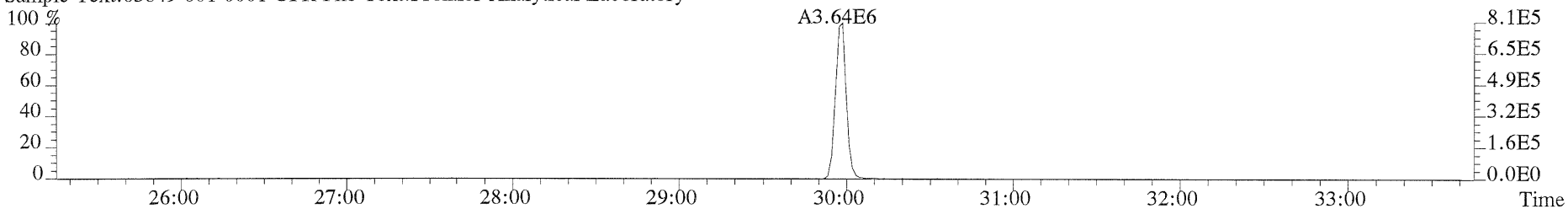
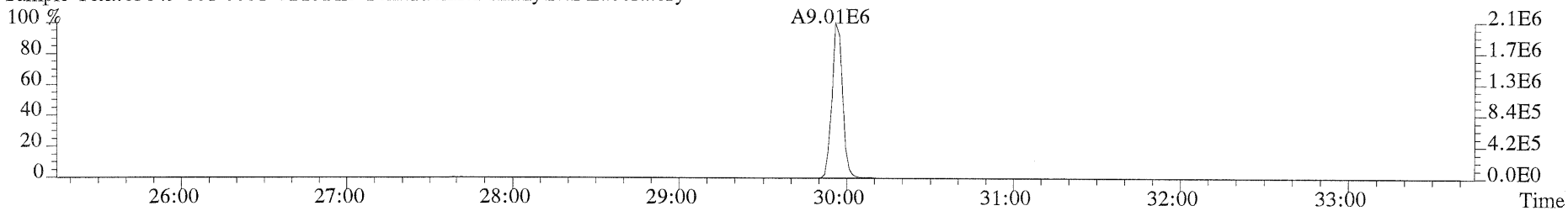
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-403 Acq:19-SEP-2016 16:23:52 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:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



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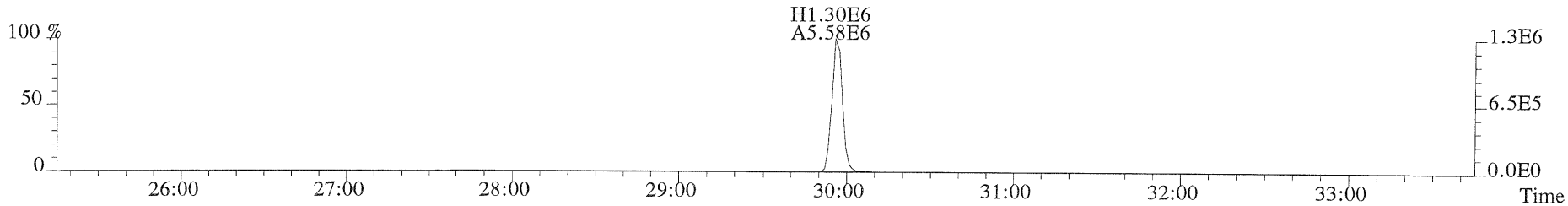
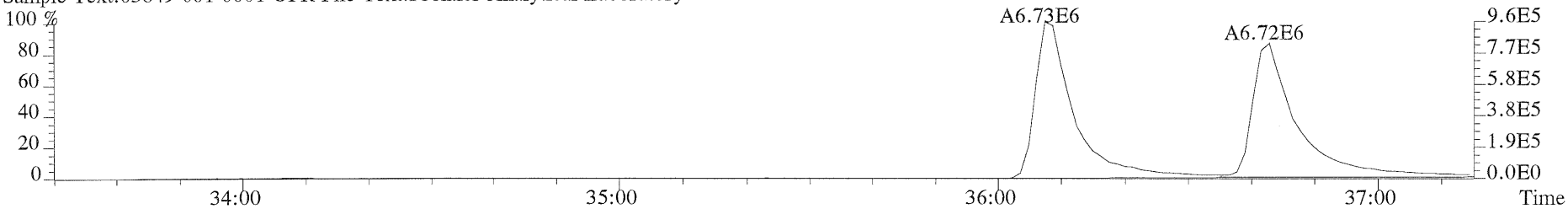
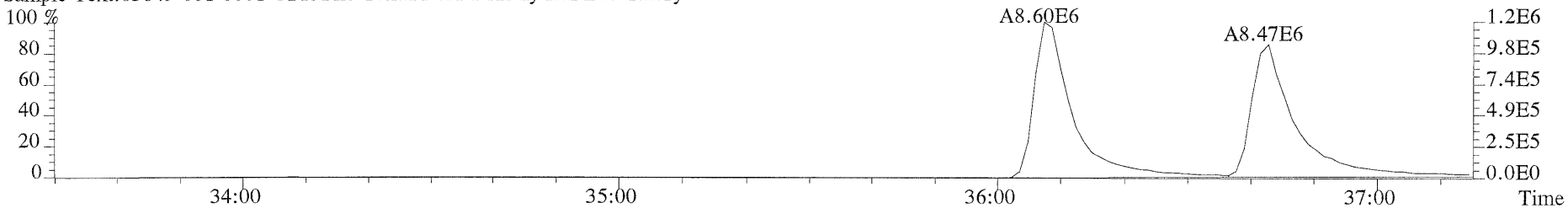
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



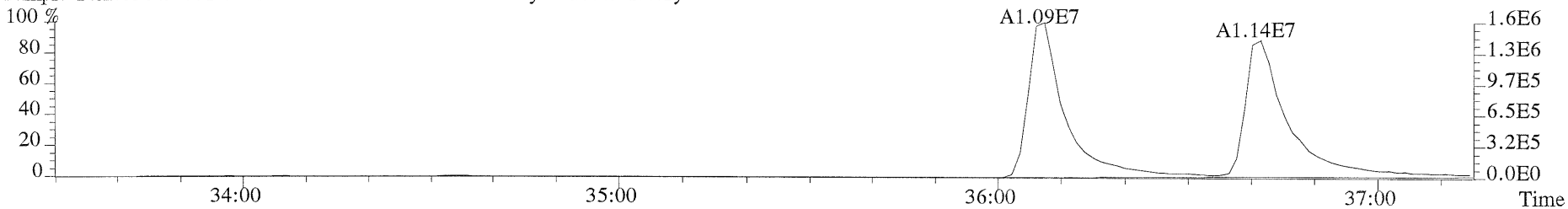
File:19SEP16Z #1-179 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



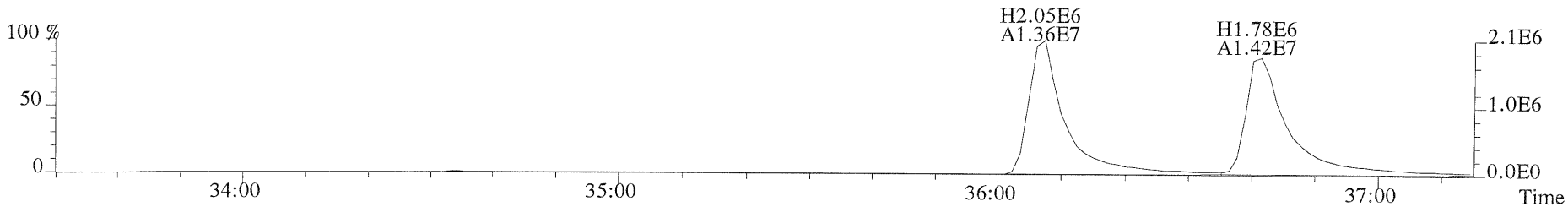
File:19SEP16Z #1-179 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



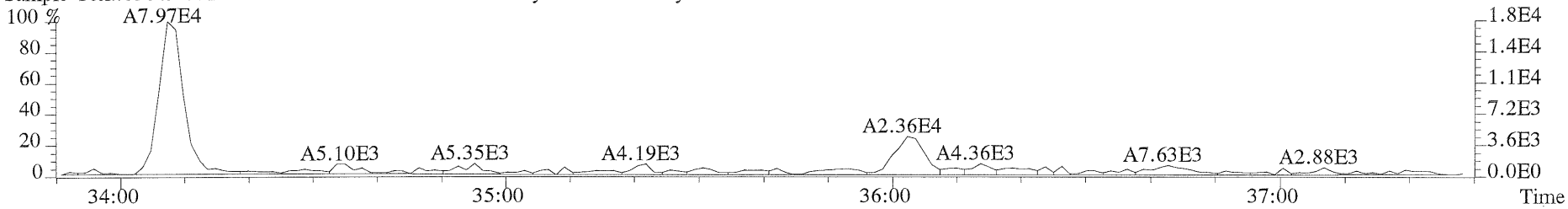
File:19SEP16Z #1-179 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



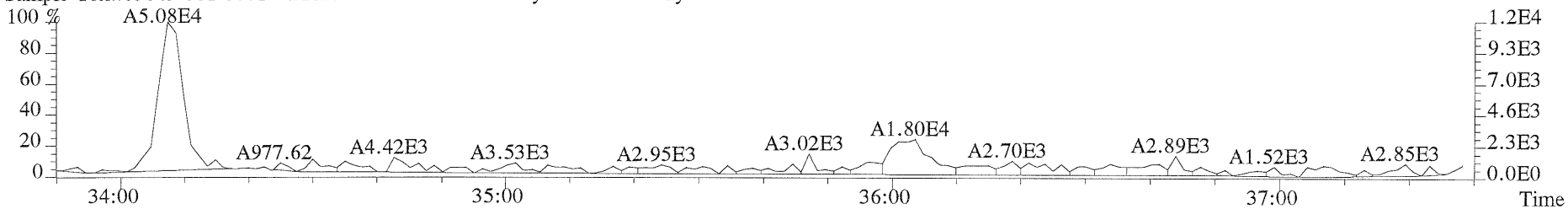
File:19SEP16Z #1-179 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:19-SEP-2016 16:23:52 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:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:19-SEP-2016 16:23:52 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:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



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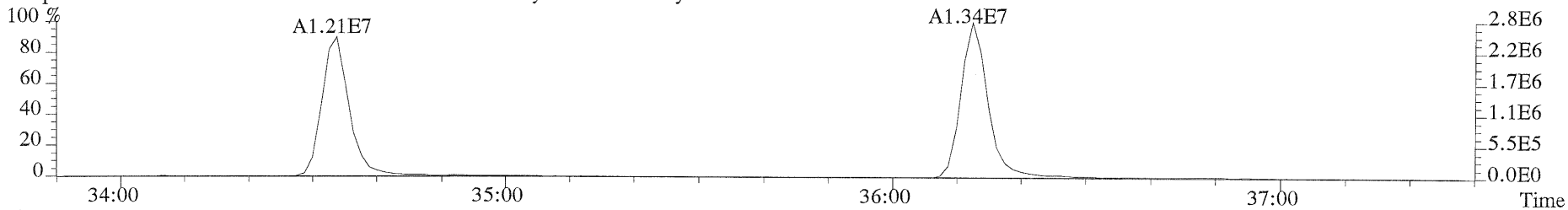

File:19SEP16Z #1-179 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
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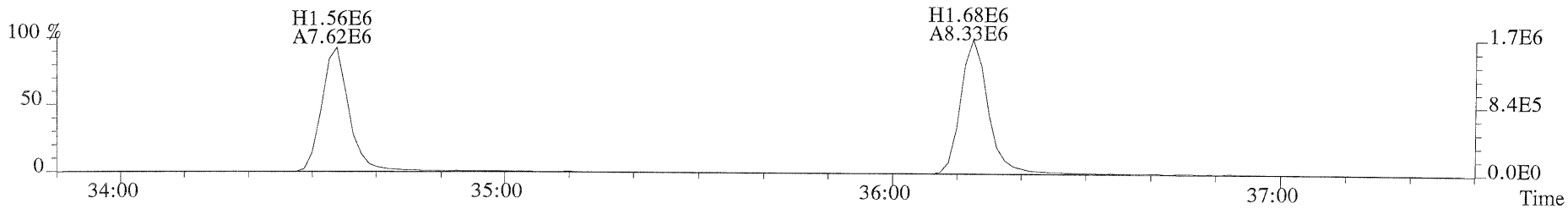
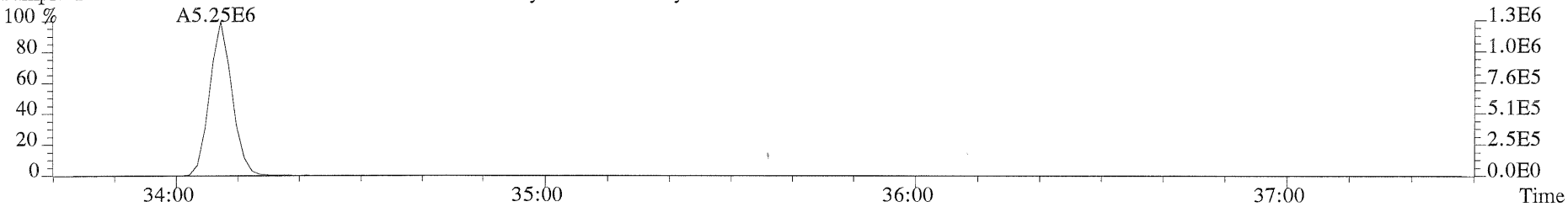
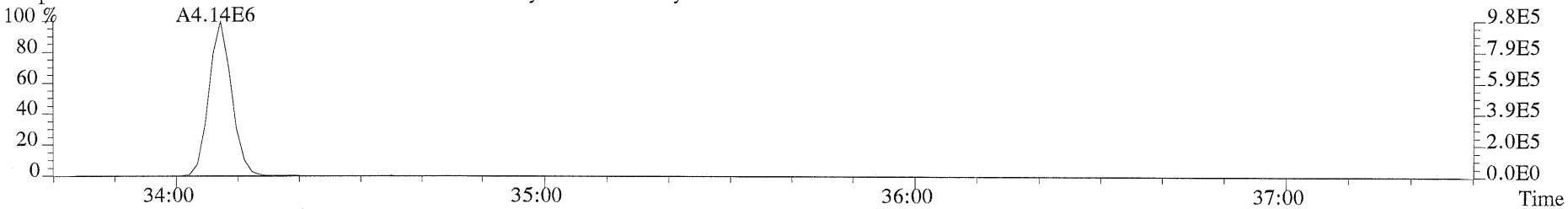
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:19-SEP-2016 16:23:52 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:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:19-SEP-2016 16:23:52 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:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



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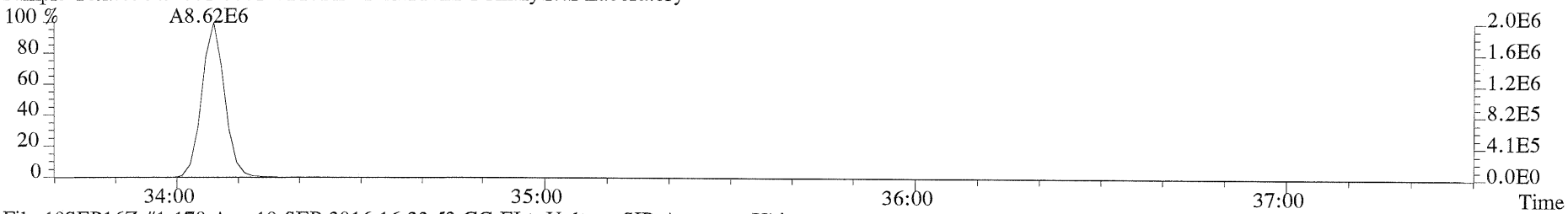
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



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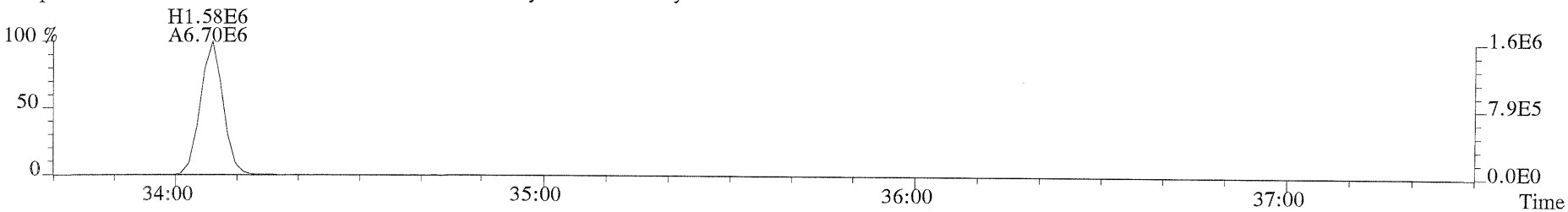
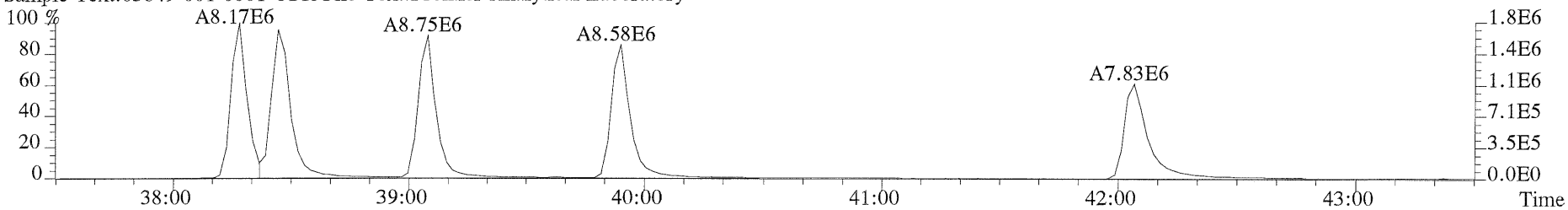
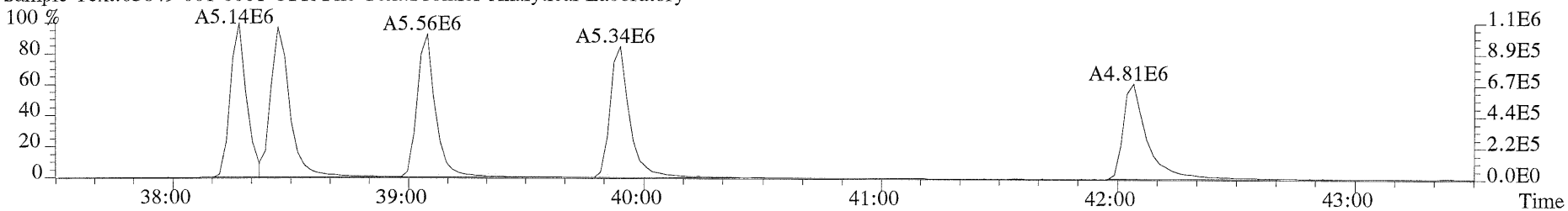
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:19-SEP-2016 16:23:52 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:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:19-SEP-2016 16:23:52 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:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



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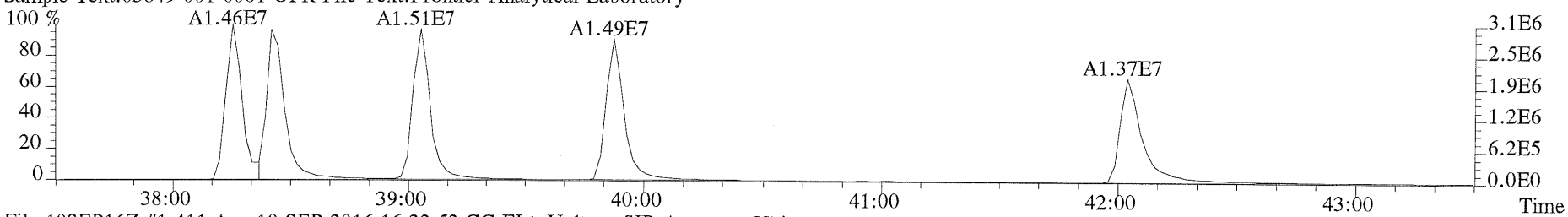
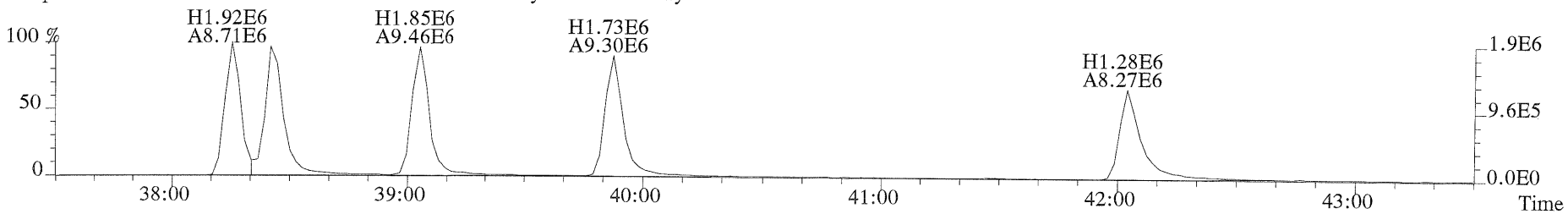
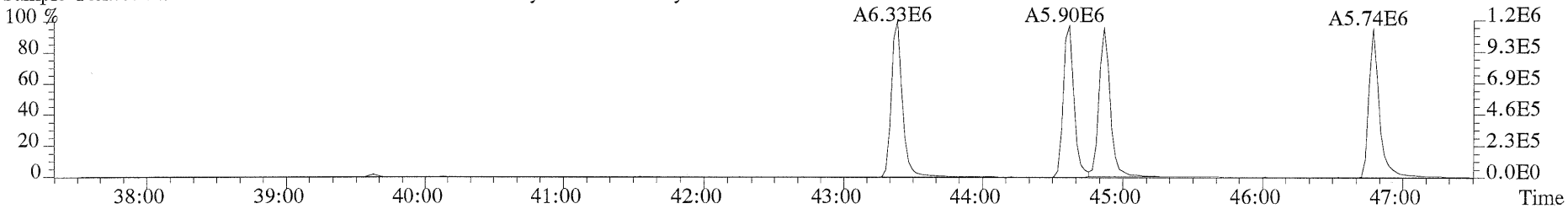
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:19-SEP-2016 16:23:52 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:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:19-SEP-2016 16:23:52 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:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



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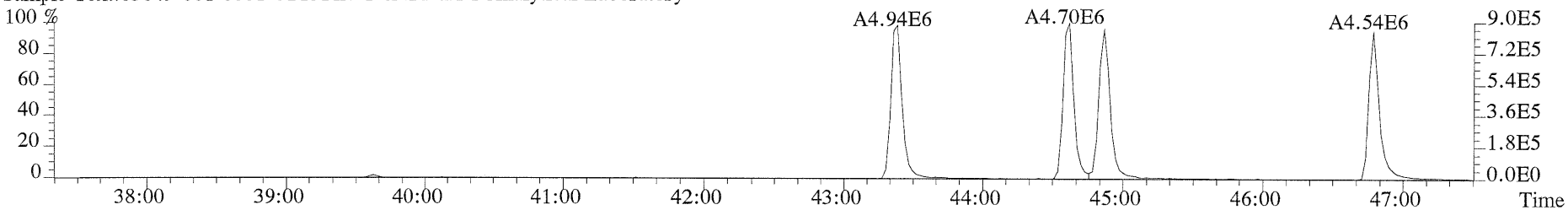
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
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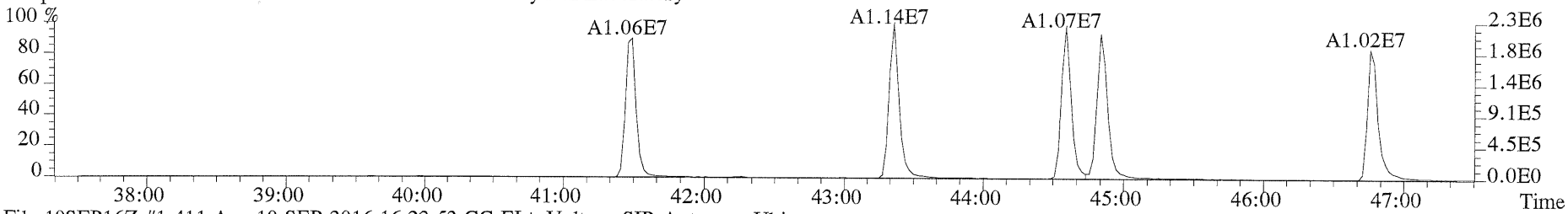
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
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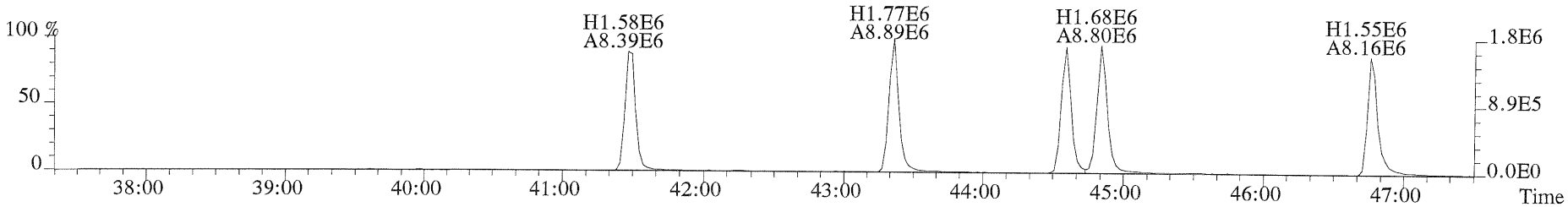
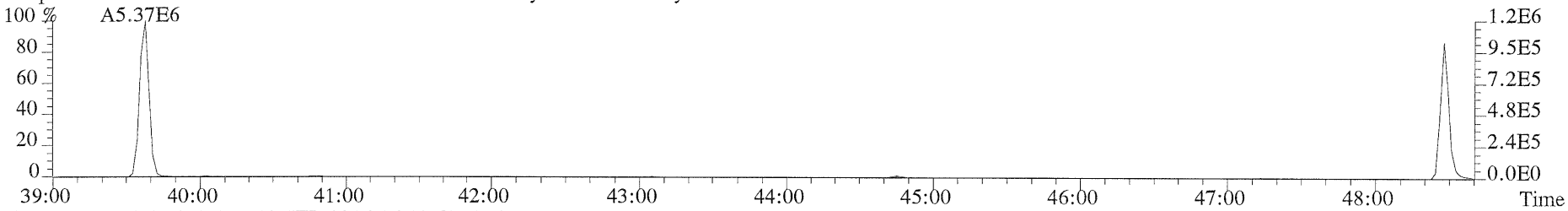
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:19-SEP-2016 16:23:52 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:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



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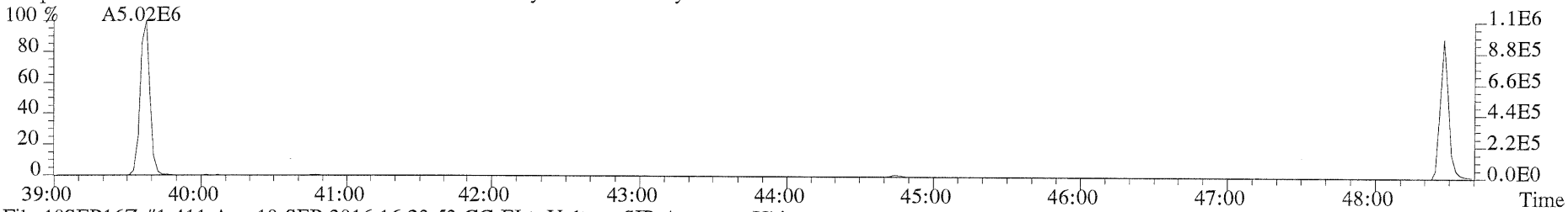
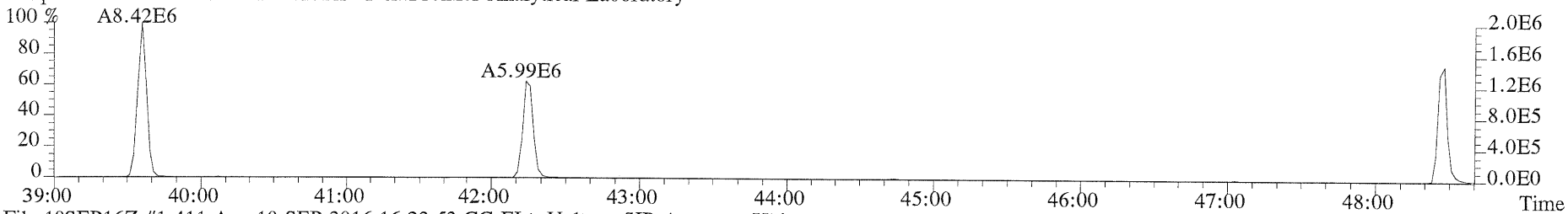
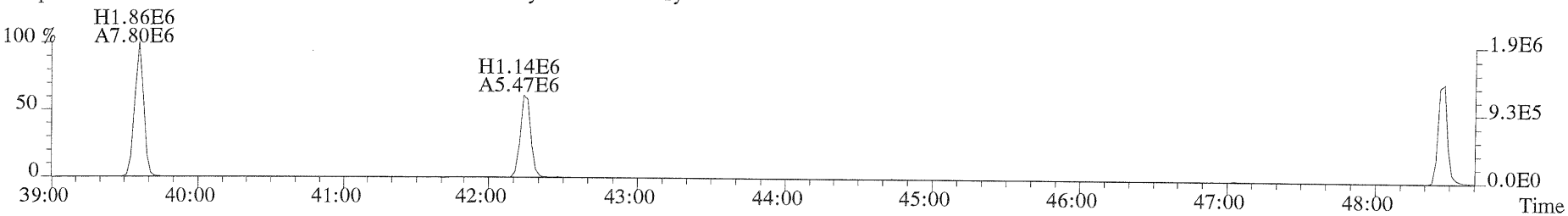
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



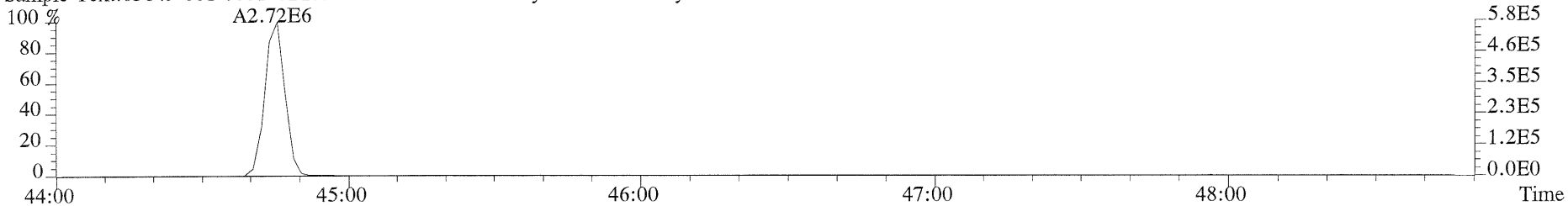
File:19SEP16Z #1-411 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



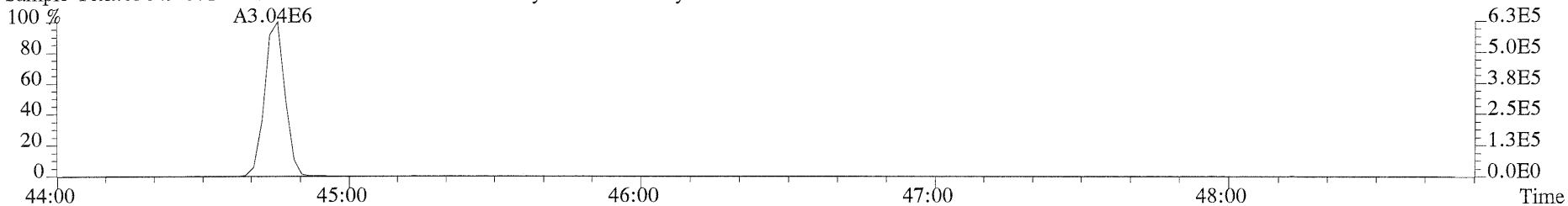
File:19SEP16Z #1-411 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



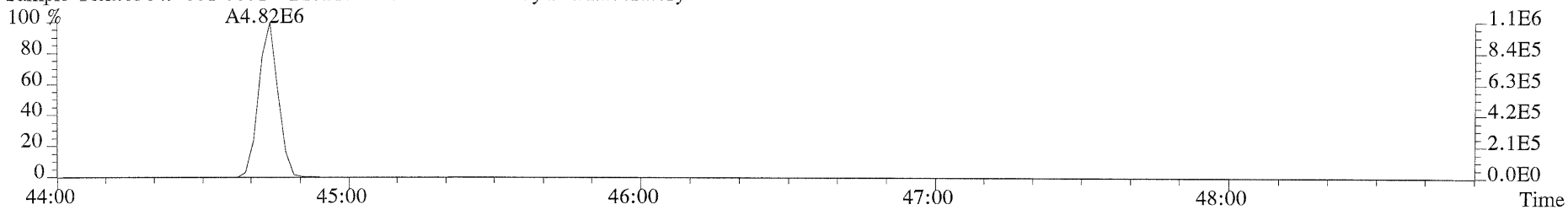
File:19SEP16Z #1-411 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



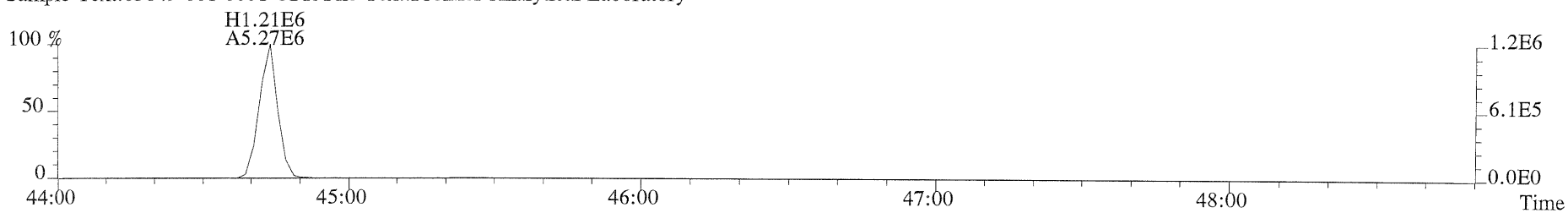
File:19SEP16Z #1-411 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



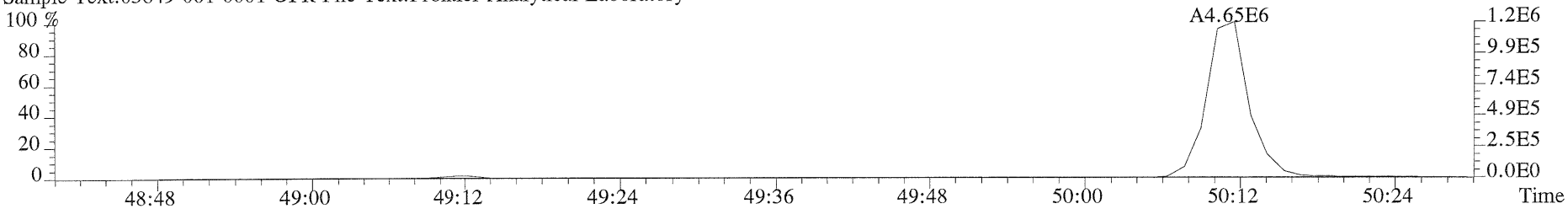
File:19SEP16Z #1-411 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



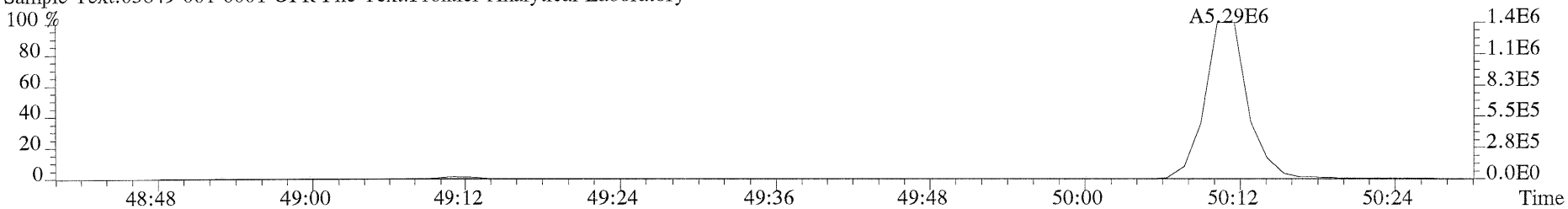
File:19SEP16Z #1-411 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



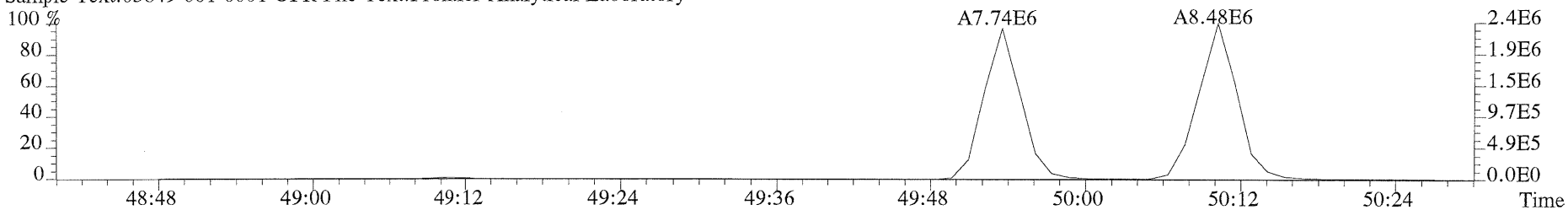
File:19SEP16Z #1-221 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



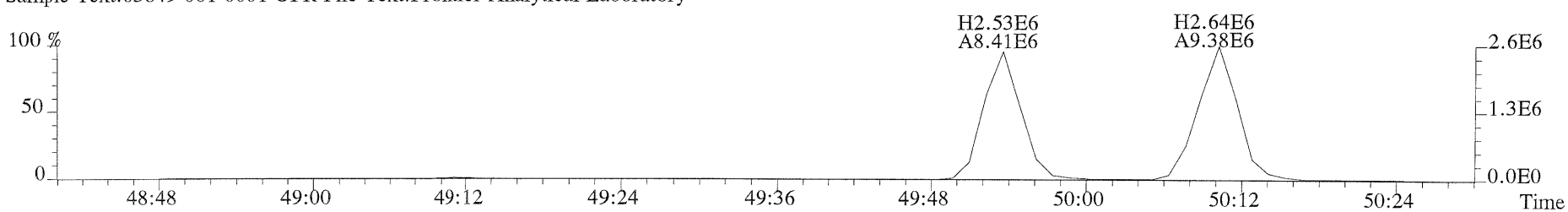
File:19SEP16Z #1-221 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



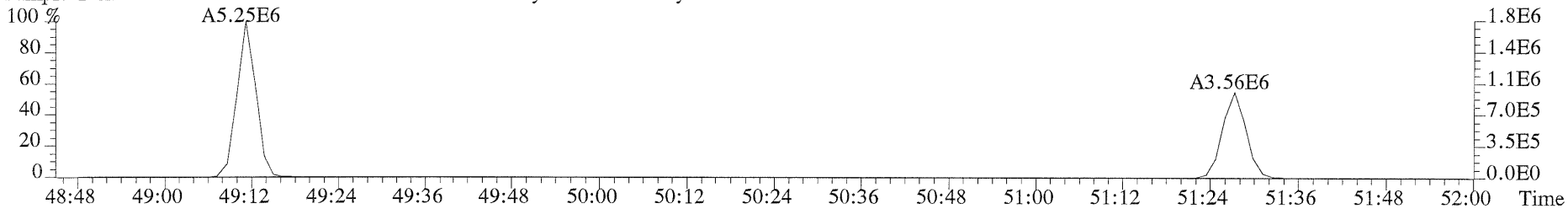
File:19SEP16Z #1-221 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



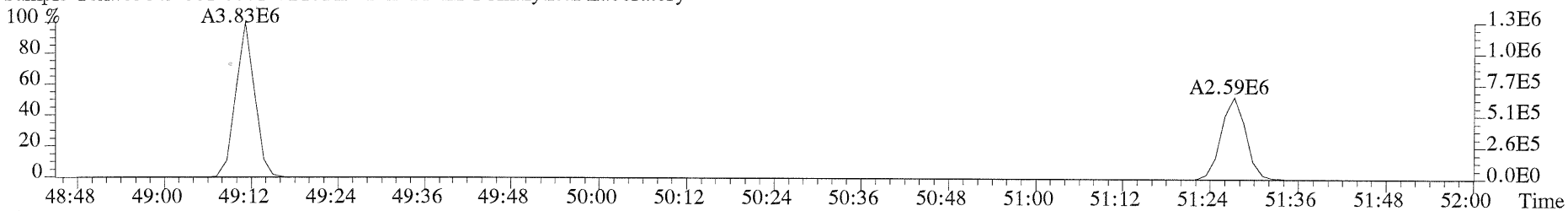
File:19SEP16Z #1-221 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



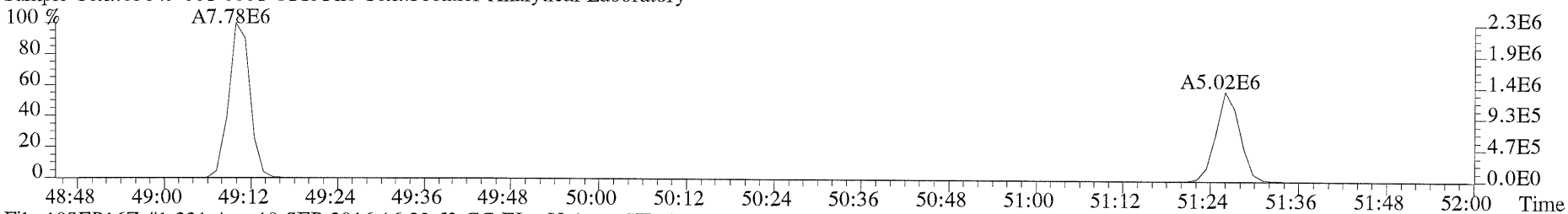
File:19SEP16Z #1-221 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



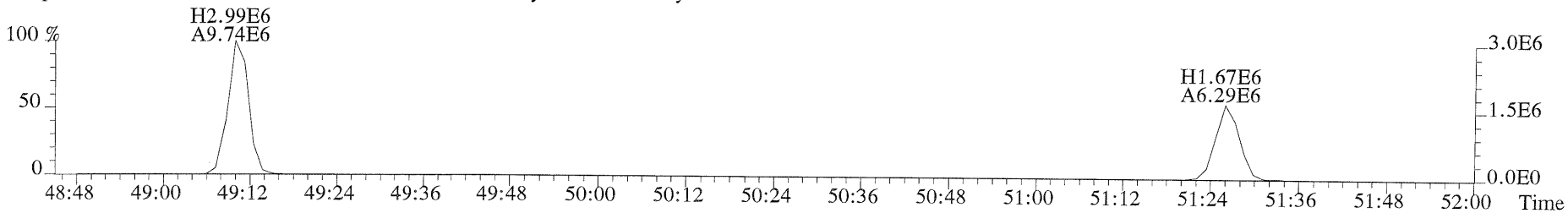
File:19SEP16Z #1-221 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



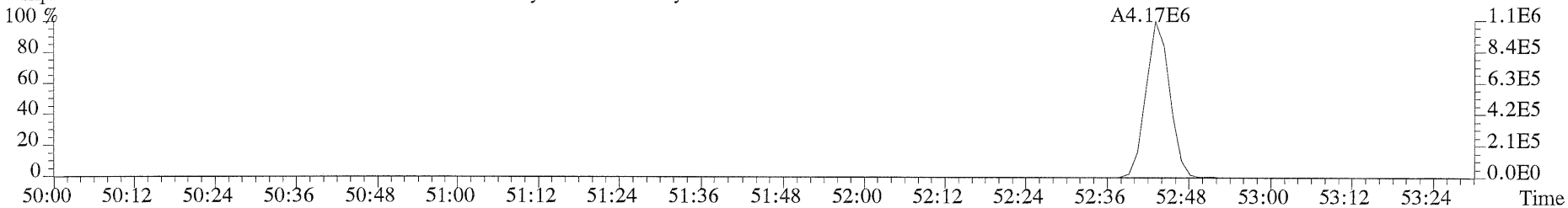
File:19SEP16Z #1-221 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



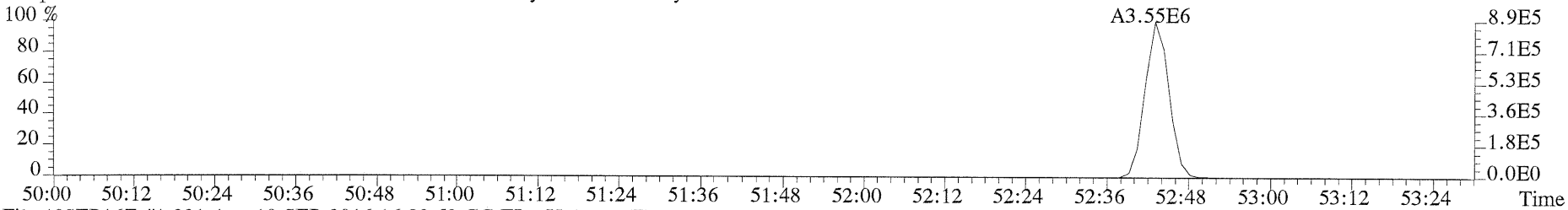
File:19SEP16Z #1-221 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



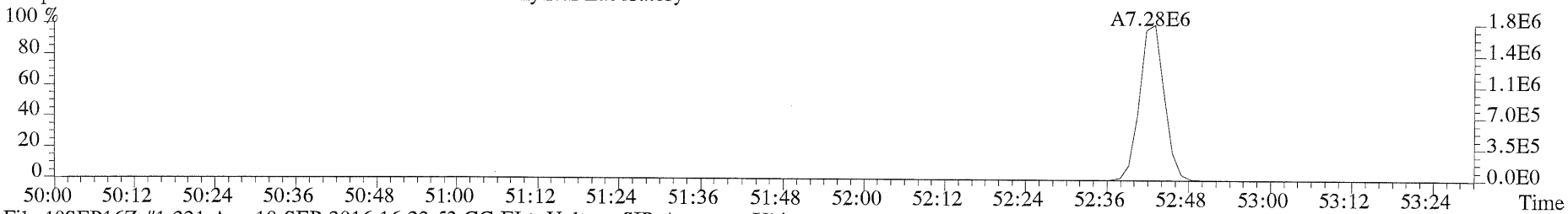
File:19SEP16Z #1-221 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



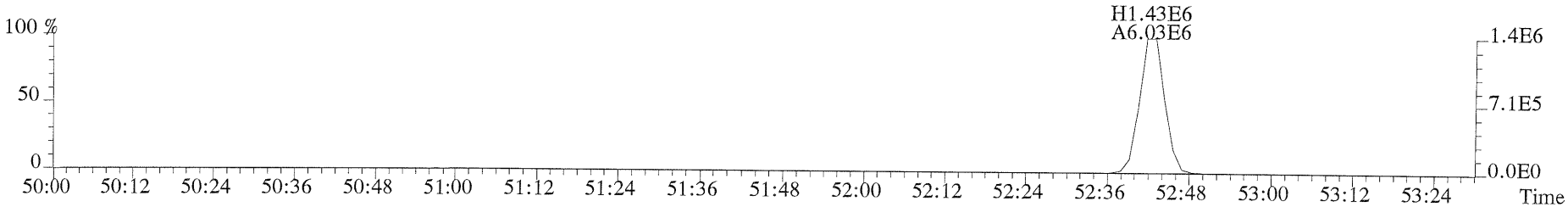
File:19SEP16Z #1-221 Acq:19-SEP-2016 16:23:52 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 16:23:52 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:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 16:23:52 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:03849-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 10146-001-0001-SA Filename: 19SEP16Z Sam:5 Acquired: 19-SEP-16 18:16:48 ICal: DAILY209FAL4-9-19-16
Client ID: LDW-BA-SC-ENR+AC-CA-S010 ConCal: ST091916Z1 EndCal: ST091916Z2
Results: 10146 GC Column: DB1 Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	
PCB-1	*	*	n	NotFnd	1.12	*		1540	810	6.46		
13C-PCB-1	3.49e+07	3.22	y	14:26	0.94	9360					93.6	
PCB-2	*	*	n	NotFnd	0.91	*		1540	810	11.3		
PCB-3	*	*	n	NotFnd	1.28	*		1540	810	10.9		
13C-PCB-3	2.95e+07	3.24	y	16:56	0.80	9250					92.5	
PCB-4	1.04e+05	1.40	y	18:10	1.14	40.6		-	-	*		
PCB-10	1.04e+05	1.40	y	18:10	1.32	30.1		-	-	*		
13C-PCB-4	2.26e+07	1.59	y	18:06	0.63	9060					90.6	
PCB-9	7.26e+04	1.41	y	19:50	1.35	20.5		-	-	*		
PCB-7	7.22e+04	1.59	y	19:53	1.51	18.3		-	-	*		
PCB-6	5.09e+05	1.66	y	20:29	1.47	132		-	-	*		
PCB-8	9.07e+05	1.48	y	20:52	1.28	270		-	-	*		
PCB-5	3.39e+05	1.48	y	20:54	1.55	83.6		-	-	*		
PCB-14	3.55e+05	1.43	y	21:57	1.38	98.2		-	-	*		
PCB-11	*	*	n	NotFnd	1.14	*		1140	1010	12.3		
PCB-13	*	*	n	NotFnd	1.15	*		1140	1010	12.1		
PCB-12	1.41e+05	1.43	y	23:35	1.29	41.8		-	-	*		
PCB-15	2.32e+05	1.40	y	23:46	1.33	58.5		-	-	*		
13C-PCB-15	2.98e+07	1.74	y	23:45	0.88	8560					85.6	
PCB-19	3.08e+05	1.08	y	22:01	1.22	142		-	-	*		
PCB-30	*	*	n	NotFnd	1.71	*		960	400	4.78		
PCB-18	2.50e+06	1.02	y	23:34	1.12	1260		-	-	*		
PCB-17	1.26e+06	1.05	y	23:45	1.29	549		-	-	*		
PCB-27	2.07e+05	0.98	y	24:16	1.63	71.3		-	-	*		
PCB-24	1.55e+05	1.03	y	24:17	1.69	51.8		-	-	*		
PCB-16	1.08e+06	1.09	y	24:46	1.28	476		-	-	*		
PCB-32	1.08e+06	1.09	y	24:46	1.55	393		-	-	*		
13C-PCB-19	1.78e+07	1.07	y	22:00	0.47	9470					94.7	
13C-PCB-9	3.97e+07	1.62	y	19:48	-	40.5						
PCB-34	*	*	n	NotFnd	0.98	*		1010	784	17.6		
PCB-23	*	*	n	NotFnd	1.44	*		1010	784	12.0		
PCB-29	*	*	n	NotFnd	1.25	*		1010	784	13.8		
PCB-26	8.01e+05	1.06	y	26:04	1.21	253		-	-	*		
PCB-25	5.74e+05	1.09	y	26:14	1.53	144		-	-	*		
PCB-31	2.25e+06	1.04	y	26:33	1.11	773		-	-	*		
PCB-28	4.32e+06	1.06	y	26:38	1.60	1030		-	-	*		
PCB-20	1.80e+06	1.07	y	27:16	1.32	523		-	-	*		Co-elute PCB 21/33
PCB-21	1.80e+06	1.07	y	27:16	1.32	523		-	-	*		Co-elute PCB 20/33
PCB-33	1.80e+06	1.07	y	27:16	1.32	523		-	-	*		Co-elute PCB 20/21
PCB-22	1.01e+06	1.11	y	27:42	1.34	290		-	-	*		
PCB-36	2.55e+06	1.14	y	28:18	1.11	878		-	-	*		
PCB-39	*	*	n	NotFnd	1.09	*		1010	784	15.8		
PCB-38	*	*	n	NotFnd	1.24	*		1010	784	13.9		
PCB-35	*	*	n	NotFnd	0.96	*		1010	784	17.9		
PCB-37	3.08e+05	1.06	y	30:25	1.29	91.7		-	-	*		
13C-PCB-37	2.61e+07	1.03	y	30:23	1.43	8670					86.7	

FAL ID: 10146-001-0001-SA Filename: 19SEP16Z Sam:5 Acquired: 19-SEP-16 ICal: DAILY209FAL4-9-19-16
Client ID: LDW-BA-SC-ENR+AC-CA-S010 ConCal: ST091916Z1 EndCal: ST091916Z2
Results: 10146 GC Column: DB1 Amount: 1.000

PCB-54	*	*	n	NotFnd	1.17	*	1140	556	6.54		
PCB-50	*	*	n	NotFnd	0.86	*	1140	556	8.91		
PCB-53	5.85e+05	0.81	y	27:16	0.83	295	-	-	*		
PCB-51	1.86e+05	0.82	y	27:35	0.86	89.8	-	-	*		
PCB-45	4.47e+05	0.75	y	27:59	0.74	253	-	-	*		
PCB-46	1.73e+05	0.80	y	28:27	0.69	105	-	-	*		
PCB-52	3.47e+06	0.79	y	28:54	1.02	1410	-	-	*	Co-elute PCB 69	
PCB-69	3.47e+06	0.79	y	28:54	1.02	1410	-	-	*	Co-elute PCB 52	
PCB-73	*	*	n	NotFnd	1.05	*	1140	556	7.27		
PCB-43	2.08e+06	0.80	y	29:11	0.79	1100	-	-	*	Co-elute PCB 49	
PCB-49	2.08e+06	0.80	y	29:11	0.79	1100	-	-	*	Co-elute PCB 43	
PCB-47	7.63e+05	0.72	y	29:23	0.96	330	-	-	*		
PCB-48	6.54e+05	0.77	y	29:29	1.05	260	-	-	*	Co-elute PCB 75	
PCB-75	6.54e+05	0.77	y	29:29	1.05	260	-	-	*	Co-elute PCB 48	
PCB-65	*	*	n	NotFnd	1.04	*	1140	556	7.35		
PCB-62	*	*	n	NotFnd	1.01	*	1140	556	7.53		
PCB-44	1.74e+06	0.77	y	30:08	0.73	998	-	-	*		
PCB-42	8.92e+05	0.75	y	30:21	0.99	377	-	-	*	Co-elute PCB 59	
PCB-59	8.92e+05	0.75	y	30:21	0.99	377	-	-	*	Co-elute PCB 42	
PCB-72	2.12e+06	0.80	y	30:55	1.06	834	-	-	*	Co-elute PCB 41/71/64	
PCB-41	2.12e+06	0.80	y	30:55	1.06	834	-	-	*	Co-elute PCB 72/71/64	
PCB-71	2.12e+06	0.80	y	30:55	1.06	834	-	-	*	Co-elute PCB 72/41/64	
PCB-64	2.12e+06	0.80	y	30:55	1.06	834	-	-	*	Co-elute PCB 72/41/71	
PCB-68	5.41e+04	0.74	y	31:10	1.12	20.1	-	-	*		
PCB-40	2.99e+05	0.81	y	31:20	0.64	196	-	-	*		
PCB-57	*	*	n	NotFnd	1.06	*	1140	556	7.24		
PCB-67	6.11e+04	0.67	y	32:02	1.06	23.9	-	-	*		
PCB-58	*	*	n	NotFnd	1.03	*	1140	556	7.40		
PCB-63	7.95e+04	0.78	y	32:17	1.07	31.0	-	-	*		
PCB-74	8.48e+05	0.77	y	32:34	1.11	319	-	-	*		
PCB-61	1.94e+06	0.79	y	32:45	1.08	744	-	-	*	Co-elute PCB 70	
PCB-70	1.94e+06	0.79	y	32:45	1.08	744	-	-	*	Co-elute PCB 61	
PCB-76	1.96e+06	0.83	y	32:58	1.14	717	-	-	*	Co-elute PCB 66	
PCB-66	1.96e+06	0.83	y	32:58	1.14	717	-	-	*	Co-elute PCB 76	
PCB-80	*	*	n	NotFnd	1.22	*	1140	556	6.26		
PCB-55	1.58e+05	0.81	y	33:27	1.10	59.9	-	-	*		
13C-PCB-54	2.40e+07	0.80	y	25:31	1.20	9490				94.9	
PCB-104	3.20e+06	1.54	y	29:58	1.25	1960	-	-	*		
PCB-96	3.12e+04	1.53	y	31:10	1.14	20.9	-	-	*		
PCB-103	5.02e+04	1.44	y	31:42	0.94	40.9	-	-	*		
PCB-100	2.42e+04	1.58	y	32:02	0.91	20.2	-	-	*		
PCB-94	*	*	n	NotFnd	0.76	*	336	436	8.15		
PCB-98	*	*	n	NotFnd	0.97	*	336	436	6.33	Co-elute PCB 102	
PCB-102	*	*	n	NotFnd	0.97	*	336	436	6.33	Co-elute PCB 98	
PCB-95	1.65e+06	1.55	y	32:59	0.80	1560	-	-	*		
PCB-93	*	*	n	NotFnd	0.78	*	336	436	7.92		
PCB-88	*	*	n	NotFnd	0.81	*	336	436	7.64	Co-elute PCB 91	
PCB-91	*	*	n	NotFnd	0.81	*	336	436	7.64	Co-elute PCB 88	
PCB-121	4.20e+06	1.57	y	33:27	1.15	2790	-	-	*		
13C-PCB-104	1.31e+07	1.61	y	29:57	0.66	9490				94.9	
13C-PCB-28	3.57e+07	1.07	y	26:38	1.63	10400				104	
13C-PCB-52	2.11e+07	0.80	y	28:52	-	39.5					

PCB-56	1.18e+06	0.81	y	33:57	1.24	375		-	-	*	Co-elute PCB 60
PCB-60	1.18e+06	0.81	y	33:57	1.24	375		-	-	*	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.23	*		1480	1350	16.8	
PCB-78	5.24e+06	0.79	y	35:39	1.13	1830		-	-	*	
PCB-81	1.81e+05	0.83	y	36:06	1.23	58.6		-	-	*	
13C-PCB-81	2.52e+07	0.80	y	36:07	1.35	9590					95.9
PCB-77	1.31e+05	0.74	y	36:44	1.14	44.7		-	-	*	
13C-PCB-77	2.57e+07	0.79	y	36:42	1.37	9600					96.0
PCB-155	5.28e+06	1.29	y	34:07	1.18	3060		-	-	*	
PCB-150	*	*	n	NotFnd	1.01	*		364	356	5.48	
PCB-152	*	*	n	NotFnd	1.00	*		364	356	5.58	
PCB-145	*	*	n	NotFnd	1.00	*		364	356	5.54	
PCB-136	3.50e+05	1.28	y	36:31	0.94	255		-	-	*	
PCB-148	*	*	n	NotFnd	0.78	*		364	356	7.10	
PCB-154	5.54e+04	1.30	y	37:04	0.85	44.7		-	-	*	
13C-PCB-155	1.46e+07	1.26	y	34:07	0.84	8990					89.9
13C-PCB-111	2.25e+07	1.58	y	36:12	1.16	9910					99.1
13C-PCB-101	1.95e+07	1.59	y	34:34	-	42.8					
PCB-84	1.05e+06	1.59	y	34:13	0.68	629		-	-	*	Co-elute PCB 92
PCB-92	1.05e+06	1.59	y	34:13	0.68	629		-	-	*	Co-elute PCB 84
PCB-89	2.72e+04	1.46	y	34:25	0.67	16.5	J	-	-	*	
PCB-90	2.44e+06	1.56	y	34:35	0.76	1310		-	-	*	Co-elute PCB 101
PCB-101	2.44e+06	1.56	y	34:35	0.76	1310		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.85	*		1040	950	13.4	
PCB-99	1.06e+06	1.49	y	34:54	0.85	510		-	-	*	
PCB-119	8.22e+04	1.51	y	35:20	0.96	34.9		-	-	*	
PCB-83	1.00e+05	1.51	y	35:30	0.78	52.3		-	-	*	Co-elute PCB 112
PCB-112	1.00e+05	1.51	y	35:30	0.78	52.3		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.92	*		1040	950	12.3	
PCB-97	5.54e+05	1.60	y	35:49	0.82	276		-	-	*	
PCB-86	*	*	n	NotFnd	0.66	*		1040	950	17.2	
PCB-125	8.06e+05	1.61	y	36:06	0.85	386		-	-	*	Co-elute PCB 87/117
PCB-87	8.06e+05	1.61	y	36:06	0.85	386		-	-	*	Co-elute PCB 125/117
PCB-117	8.06e+05	1.61	y	36:06	0.85	386		-	-	*	Co-elute PCB 125/87
PCB-111	3.37e+05	1.54	y	36:21	1.13	121		-	-	*	Co-elute PCB 115
PCB-115	3.37e+05	1.54	y	36:21	1.13	121		-	-	*	Co-elute PCB 111
PCB-85	3.37e+05	1.54	y	36:21	0.79	174		-	-	*	Co-elute PCB 116
PCB-116	3.37e+05	1.54	y	36:21	0.79	174		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.93	*		1040	950	12.2	
PCB-110	2.59e+06	1.51	y	36:44	1.07	986		-	-	*	
PCB-82	1.44e+05	1.51	y	37:19	0.55	106		-	-	*	
PCB-124	7.94e+04	1.70	y	38:00	1.03	31.5		-	-	*	
PCB-108	1.31e+05	1.76	y	38:08	1.17	45.6		-	-	*	Co-elute PCB 107
PCB-107	1.31e+05	1.76	y	38:08	1.17	45.6		-	-	*	Co-elute PCB 108
PCB-123	3.32e+04	1.46	y	38:17	1.34	11.0	J	-	-	*	
13C-PCB-123	2.25e+07	1.60	y	38:17	1.34	8830					88.3
PCB-118	1.63e+06	1.54	y	38:28	1.08	574		-	-	*	Co-elute PCB 106
PCB-106	1.63e+06	1.54	y	38:28	1.08	574		-	-	*	Co-elute PCB 118
13C-PCB-118	2.63e+07	1.63	y	38:27	1.45	9510					95.1
PCB-114	5.69e+04	1.49	y	39:04	1.10	20.5		-	-	*	
13C-PCB-114	2.52e+07	1.61	y	39:03	1.36	9710					97.1
PCB-122	*	*	n	NotFnd	1.25	*		540	844	6.31	
PCB-105	5.62e+05	1.52	y	39:54	1.16	199		-	-	*	
13C-PCB-105	2.43e+07	1.62	y	39:52	1.38	9260					92.6

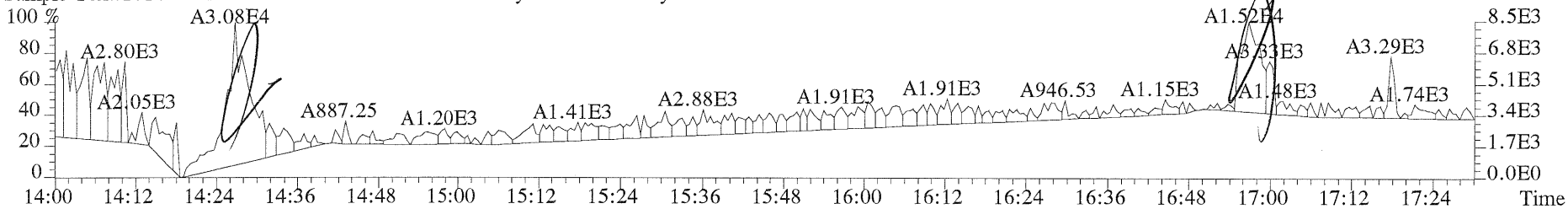
PCB-127	*	*	n	NotFnd	1.07	*		540	844	7.37		
PCB-126	*	*	n	NotFnd	1.17	*		540	844	9.30		
13C-PCB-126	2.31e+07	1.64	y	42:04	1.27	9570					95.7	
PCB-151	5.46e+05	1.24	y	37:42	0.89	306		-	-	*		
PCB-135	2.80e+05	1.29	y	37:54	0.81	173		-	-	*		
PCB-144	1.02e+05	1.41	y	38:00	1.04	48.7		-	-	*		
PCB-147	3.65e+04	1.31	y	38:08	0.96	18.8	J	-	-	*		
PCB-139	1.86e+06	1.30	y	38:22	0.98	944		-	-	*	Co-elute PCB 149	
PCB-149	1.86e+06	1.30	y	38:22	0.98	944		-	-	*	Co-elute PCB 139	
PCB-140	*	*	n	NotFnd	0.96	*		708	468	8.14		
PCB-143	8.99e+04	1.31	y	38:59	0.89	50.3		-	-	*	Co-elute PCB 134	
PCB-134	8.99e+04	1.31	y	38:59	0.89	50.3		-	-	*	Co-elute PCB 143	
PCB-131	4.43e+04	1.17	y	39:14	0.91	24.2		-	-	*	Co-elute PCB 133	
PCB-133	4.43e+04	1.17	y	39:14	0.91	24.2		-	-	*	Co-elute PCB 131	
PCB-142	4.54e+06	1.25	y	39:24	0.79	2850		-	-	*		
PCB-165	3.20e+05	1.19	y	39:37	1.07	148		-	-	*	Co-elute PCB 146	
PCB-146	3.20e+05	1.19	y	39:37	1.07	148		-	-	*	Co-elute PCB 165	
PCB-161	5.15e+05	1.35	y	39:52	1.01	254		-	-	*	Co-elute PCB 132	
PCB-132	5.15e+05	1.35	y	39:52	1.01	254		-	-	*	Co-elute PCB 161	
PCB-153	1.98e+06	1.27	y	40:00	1.05	944		-	-	*		
PCB-168	*	*	n	NotFnd	1.18	*		708	468	6.67		
PCB-141	2.62e+05	1.24	y	40:43	0.89	148		-	-	*		
PCB-137	5.17e+04	1.30	y	41:05	0.85	30.3		-	-	*		
PCB-130	7.63e+04	1.23	y	41:11	0.79	48.1		-	-	*		
PCB-138	1.69e+06	1.27	y	41:31	1.19	707		-	-	*	Co-elute PCB 163/164	
PCB-163	1.69e+06	1.27	y	41:31	1.19	707		-	-	*	Co-elute PCB 138/164	
PCB-164	1.69e+06	1.27	y	41:31	1.19	707		-	-	*	Co-elute PCB 138/163	
PCB-158	1.89e+05	1.29	y	41:44	1.18	80.3		-	-	*	Co-elute PCB 160	
PCB-160	1.89e+05	1.29	y	41:44	1.18	80.3		-	-	*	Co-elute PCB 158	
PCB-129	5.54e+04	1.19	y	42:01	0.73	37.7		-	-	*		
PCB-166	*	*	n	NotFnd	1.11	*		708	468	7.10		
PCB-159	3.38e+04	1.40	y	42:45	1.20	14.0	J	-	-	*		
PCB-128	1.95e+05	1.29	y	43:01	1.00	97.4		-	-	*	Co-elute PCB 162	
PCB-162	1.95e+05	1.29	y	43:01	1.00	97.4		-	-	*	Co-elute PCB 128	
PCB-167	4.76e+04	1.15	y	43:23	1.06	21.7		-	-	*		
13C-PCB-167	2.07e+07	1.26	y	43:23	1.15	9520					95.2	
PCB-156	9.50e+04	1.34	y	44:37	1.12	44.0		-	-	*		
13C-PCB-156	1.92e+07	1.28	y	44:37	1.10	9180					91.8	
PCB-157	*	*	n	NotFnd	1.13	*		708	468	6.95		
13C-PCB-157	2.09e+07	1.27	y	44:52	1.13	9710					97.1	
PCB-169	*	*	n	NotFnd	1.07	*		708	468	7.16		
13C-PCB-169	1.94e+07	1.26	y	46:47	1.05	9710					97.1	

FAL ID: 10146-001-0001-SA Filename: 19SEP16Z Sam:5 Acquired: 19-SEP-16 18:16:48 ICal: DAILY209FAL4-9-19-16
Client ID: LDW-BA-SC-ENR+AC-CA-S010 ConCal: ST091916Z1 EndCal: ST091916Z2
Results: 10146 GC Column: DB1 Amount: 1.000

PCB-188	*	*	n	NotFnd	1.25	*		440	324	4.51	
13C-PCB-188	1.58e+07	1.08	y	39:36	0.94	8860					88.6
PCB-184	7.89e+06	1.06	y	40:04	1.39	3890		-	-	*	
PCB-179	2.07e+05	1.17	y	40:48	1.31	109		-	-	*	
PCB-176	5.31e+04	1.15	y	41:14	1.28	28.6		-	-	*	
PCB-186	*	*	n	NotFnd	1.28	*		440	324	4.34	
PCB-178	6.01e+04	1.07	y	42:17	0.89	46.7		-	-	*	
PCB-175	*	*	n	NotFnd	0.93	*		440	324	5.94	
PCB-187	3.82e+05	1.02	y	42:45	1.02	259		-	-	*	Co-elute PCB 182
PCB-182	3.82e+05	1.02	y	42:45	1.02	259		-	-	*	Co-elute PCB 187
PCB-183	1.69e+05	1.14	y	43:05	1.02	114		-	-	*	
PCB-185	3.02e+04	1.13	y	43:43	0.91	22.8		-	-	*	
PCB-174	2.37e+05	1.01	y	44:02	0.94	173		-	-	*	
PCB-181	*	*	n	NotFnd	0.87	*		440	324	6.35	
PCB-177	1.40e+05	1.06	y	44:19	0.80	120		-	-	*	
PCB-171	6.56e+04	0.98	y	44:35	0.89	50.7		-	-	*	
PCB-173	*	*	n	NotFnd	0.79	*		440	324	7.01	
PCB-172	1.23e+05	0.92	y	45:21	0.80	106		-	-	*	
PCB-192	4.27e+06	1.05	y	45:35	1.09	2700		-	-	*	
PCB-180	4.66e+05	1.09	y	45:46	1.06	301		-	-	*	
PCB-193	4.51e+04	1.16	y	45:58	1.16	26.6		-	-	*	
PCB-191	*	*	n	NotFnd	1.11	*		440	324	5.01	
PCB-170	1.58e+05	1.10	y	47:05	0.77	142		-	-	*	
PCB-190	5.35e+04	1.06	y	47:13	1.07	34.5		-	-	*	
PCB-189	*	*	n	NotFnd	1.23	*		440	324	4.46	
13C-PCB-189	1.33e+07	1.07	y	48:27	0.70	9970					99.7
PCB-202	*	*	n	NotFnd	1.05	*		280	268	5.82	
PCB-201	*	*	n	NotFnd	1.05	*		280	268	5.78	
PCB-204	5.62e+06	0.89	y	45:21	1.05	5220		-	-	*	
PCB-197	5.33e+04	0.95	y	45:38	1.09	47.9		-	-	*	
PCB-200	*	*	n	NotFnd	1.01	*		280	268	6.03	
PCB-198	*	*	n	NotFnd	0.70	*		280	268	8.68	
PCB-199	4.66e+04	0.90	y	47:41	0.70	65.1		-	-	*	
PCB-203	4.66e+04	0.94	y	47:56	0.78	58.5		-	-	*	Co-elute PCB 196
PCB-196	4.66e+04	0.94	y	47:56	0.78	58.5		-	-	*	Co-elute PCB 203
13C-PCB-202	1.03e+07	0.94	y	44:44	0.57	9520					95.2
13C-PCB-178	1.21e+07	1.09	y	42:15	0.60	10700					107
13C-PCB-138	1.90e+07	1.29	y	41:29	-	43.7					
PCB-195	2.55e+04	0.88	y	49:06	0.74	18.6	J	-	-	*	
PCB-194	5.73e+04	1.01	y	49:55	0.82	37.5		-	-	*	
PCB-205	*	*	n	NotFnd	1.07	*		328	460	3.68	
13C-PCB-205	1.86e+07	0.91	y	50:10	1.27	9340					93.4
PCB-208	*	*	n	NotFnd	1.03	*		740	470	6.14	
13C-PCB-208	1.58e+07	0.79	y	49:11	1.14	8830					88.3
PCB-207	4.36e+04	1.32	y	49:30	1.15	27.8		-	-	*	
PCB-206	*	*	n	NotFnd	1.04	*		740	470	9.72	
13C-PCB-206	1.16e+07	0.81	y	51:27	0.75	9800					98.0
PCB-209	3.88e+04	1.29	y	52:44	1.16	24.8		-	-	*	
13C-PCB-209	1.35e+07	1.20	y	52:43	0.93	9330					93.3
13C-PCB-194	1.57e+07	0.92	y	49:55	-	42.1					

Analyst: _____ Date: 9/20/16

File:19SEP16Z #1-548 Acq:19-SEP-2016 18:16:48 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:10146-001-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-548 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
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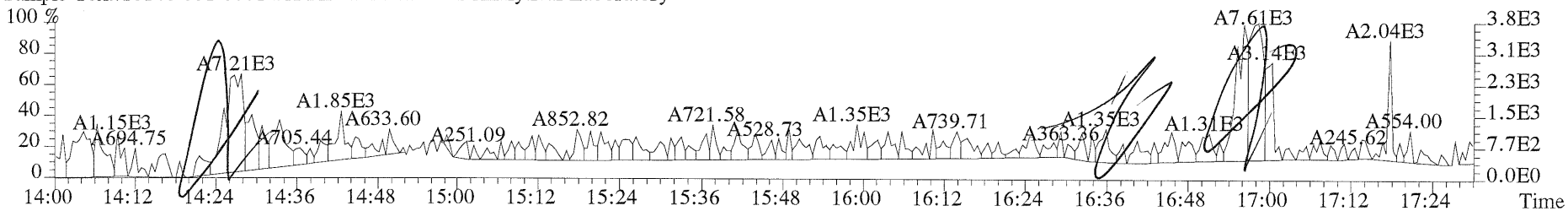
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



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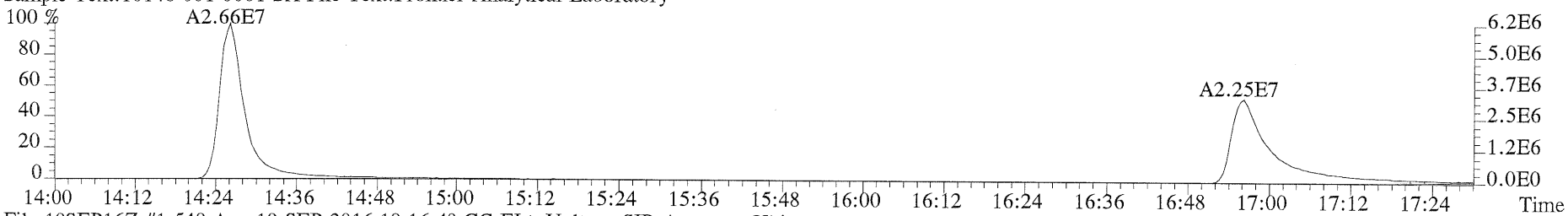

File:19SEP16Z #1-548 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
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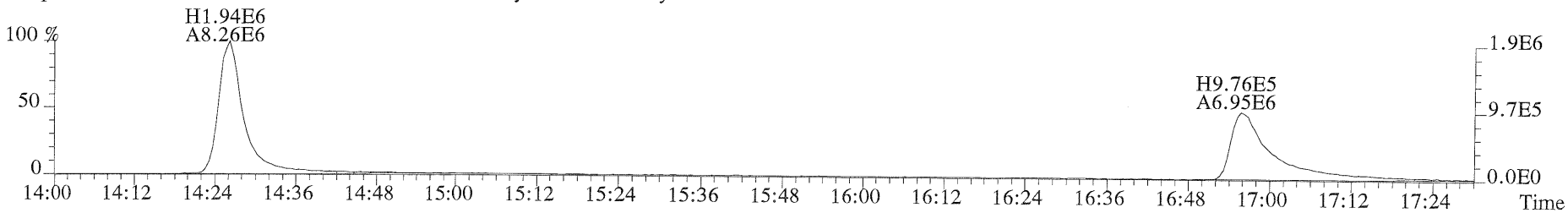
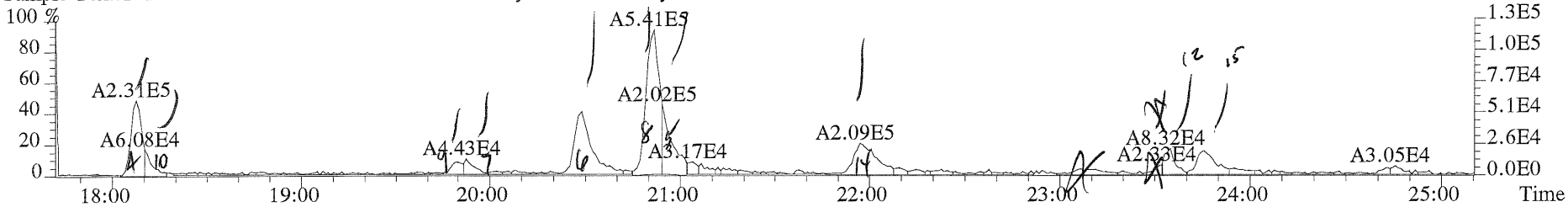


File:19SEP16Z #1-509 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-509 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
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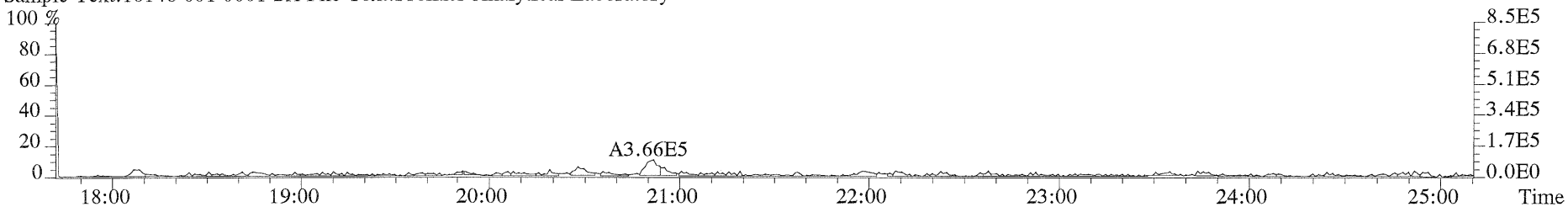
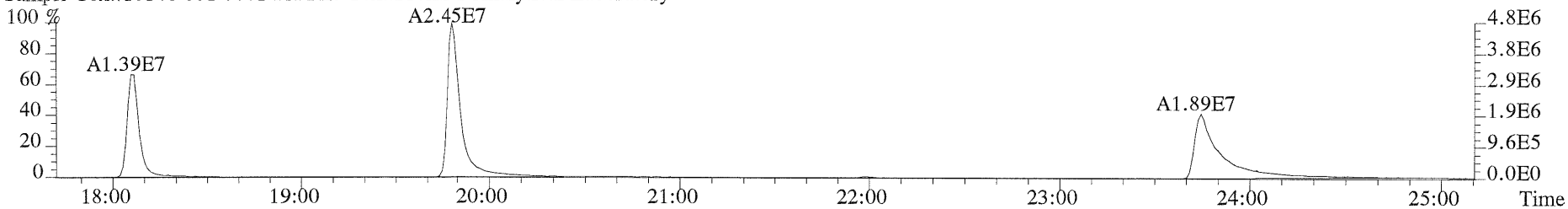
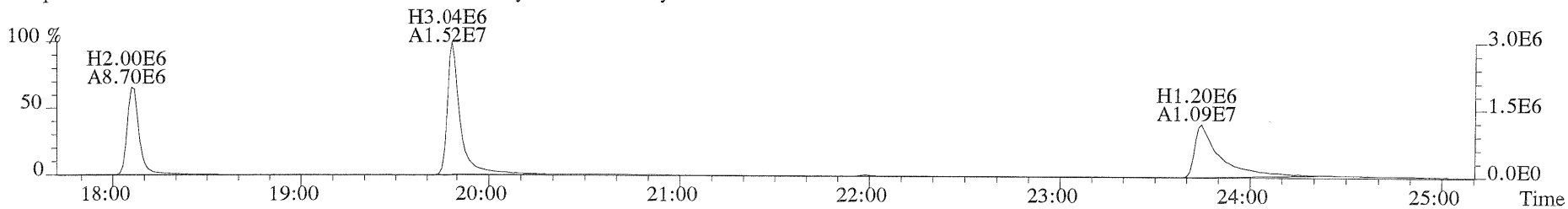
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



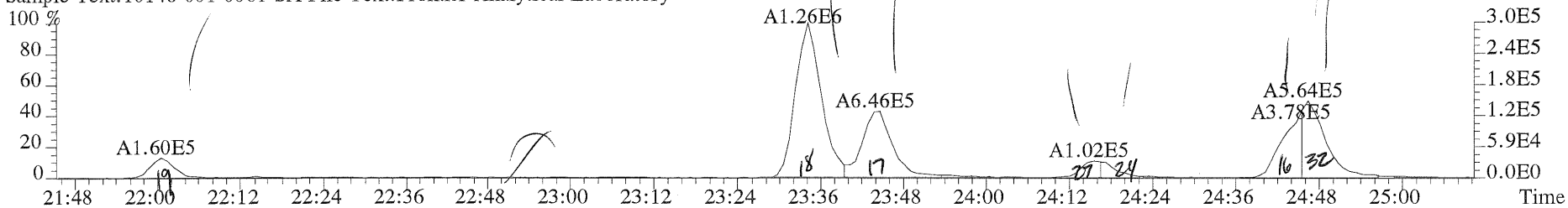
File:19SEP16Z #1-509 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



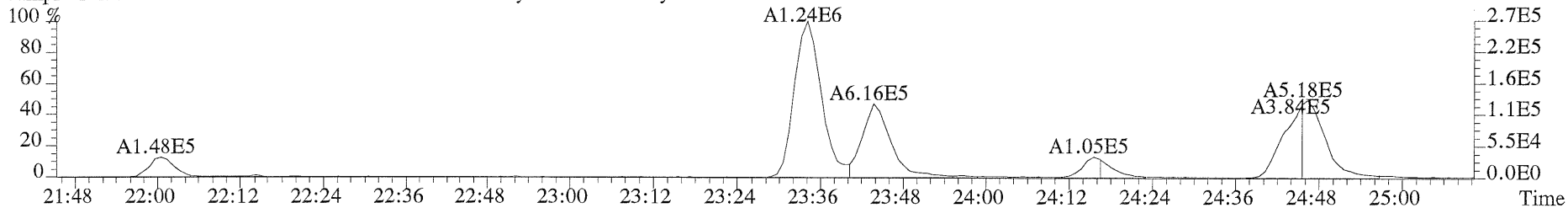
File:19SEP16Z #1-509 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



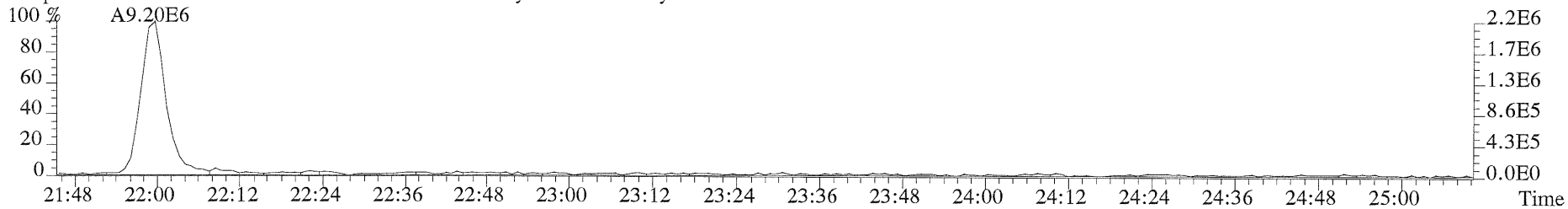
File:19SEP16Z #1-509 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



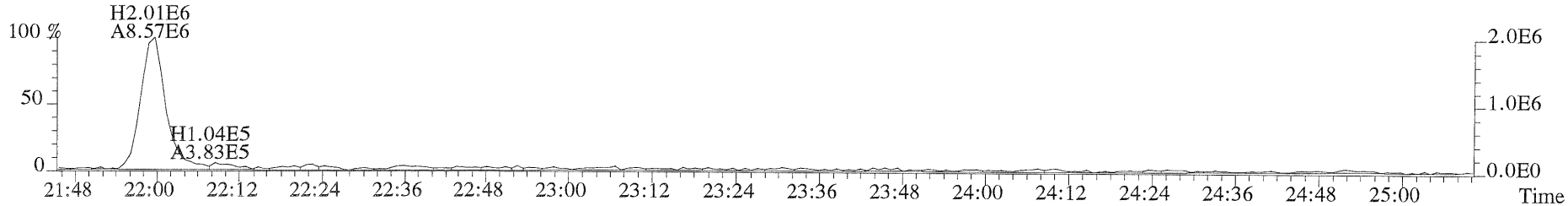
File:19SEP16Z #1-509 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



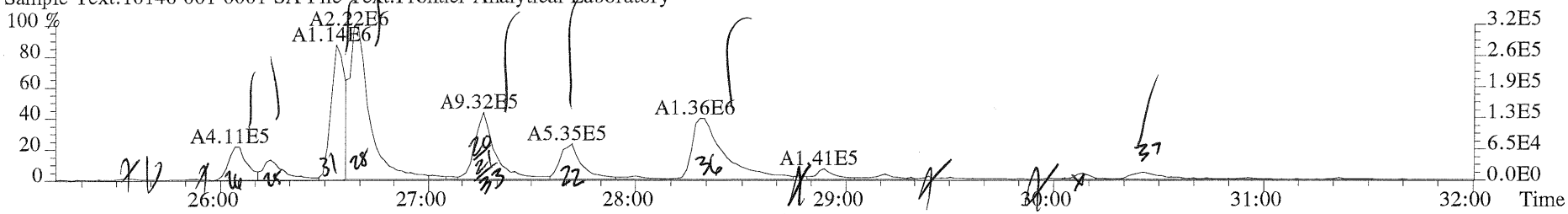
File:19SEP16Z #1-509 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



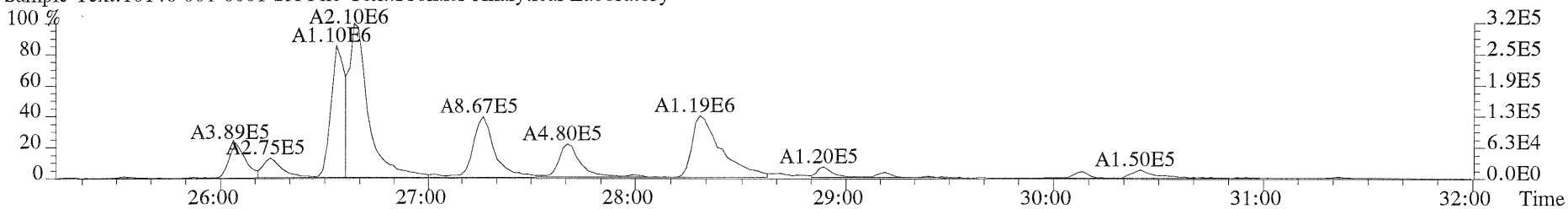
File:19SEP16Z #1-509 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



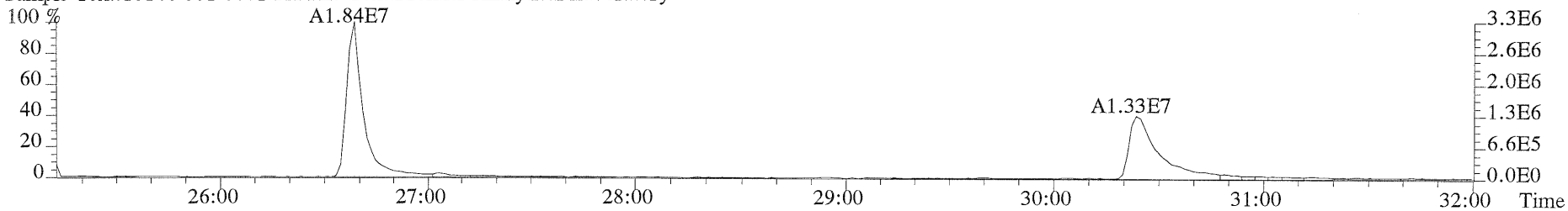
File:19SEP16Z #1-403 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



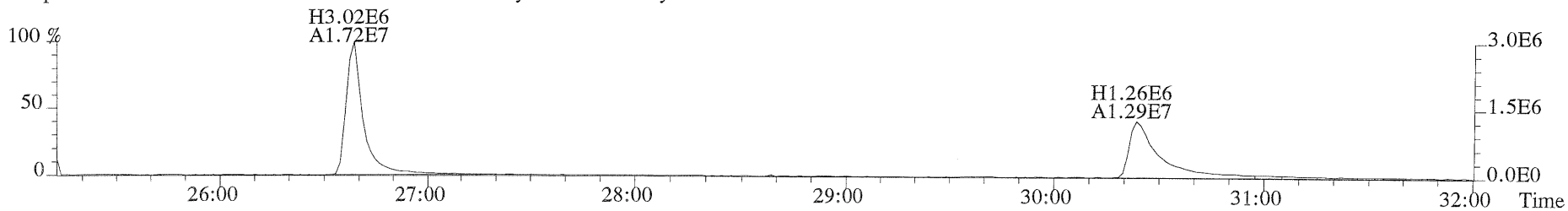
File:19SEP16Z #1-403 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



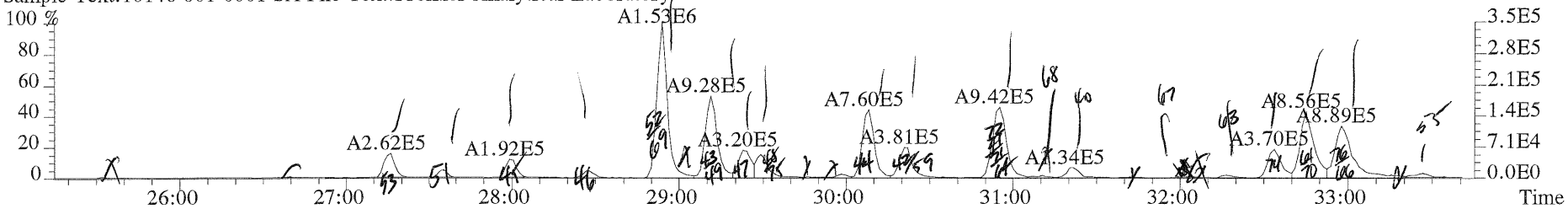
File:19SEP16Z #1-403 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



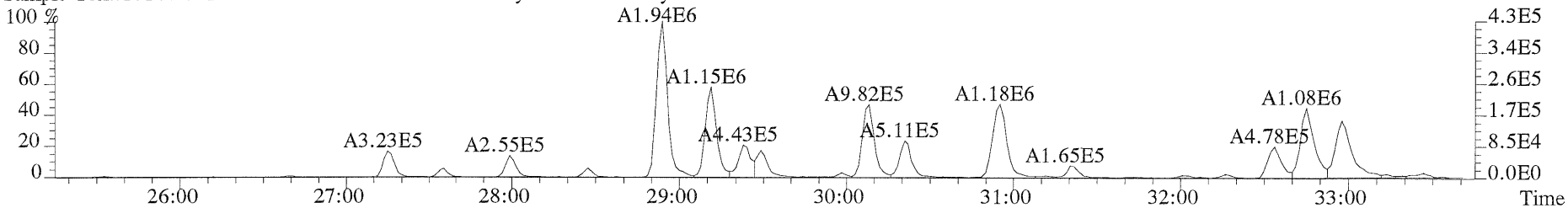
File:19SEP16Z #1-403 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



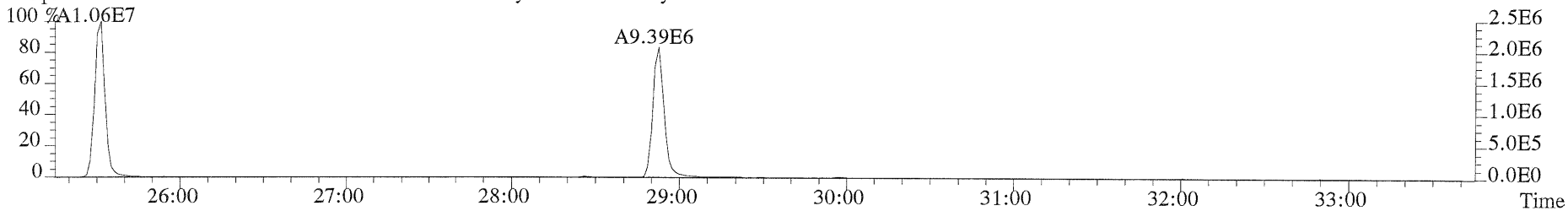
File:19SEP16Z #1-403 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



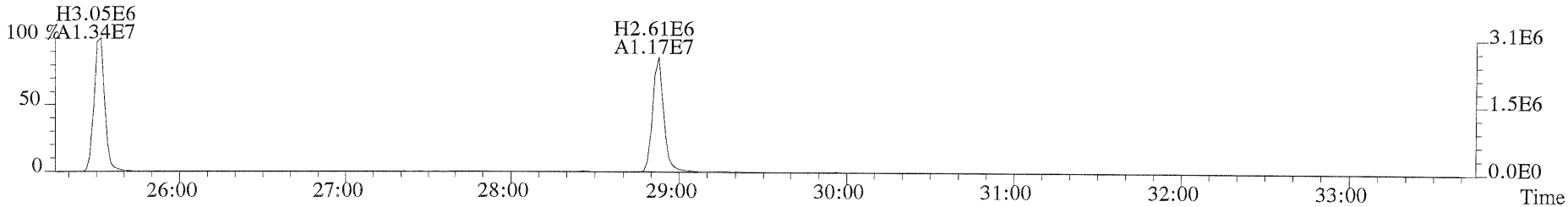
File:19SEP16Z #1-403 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



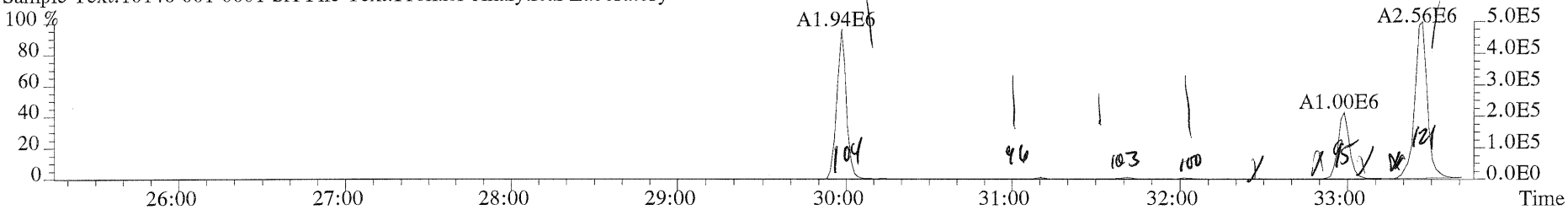
File:19SEP16Z #1-403 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



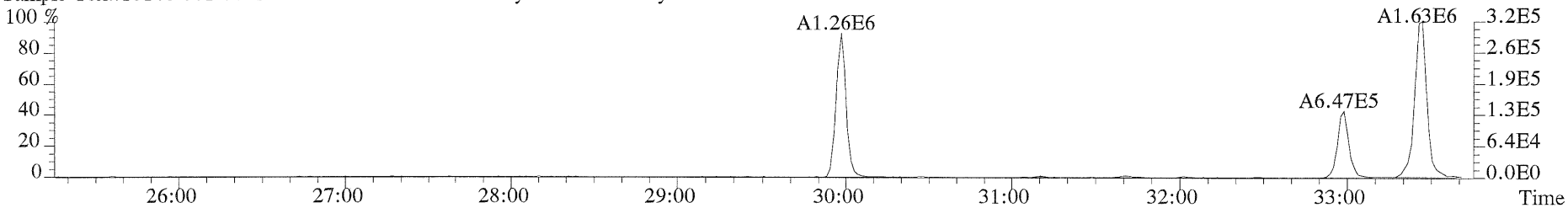
File:19SEP16Z #1-403 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



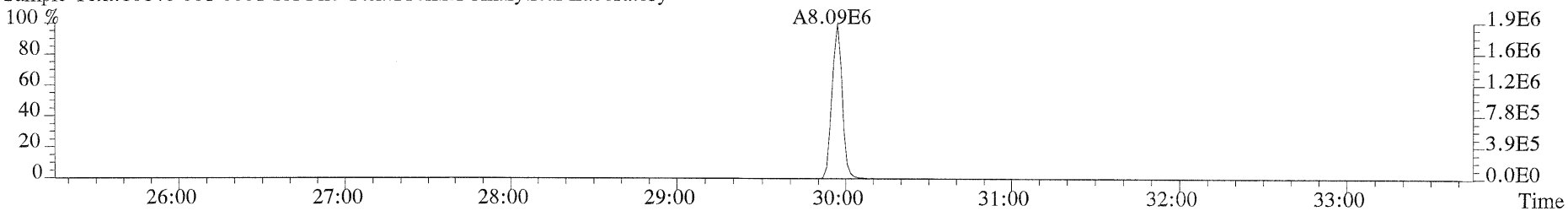
File:19SEP16Z #1-403 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



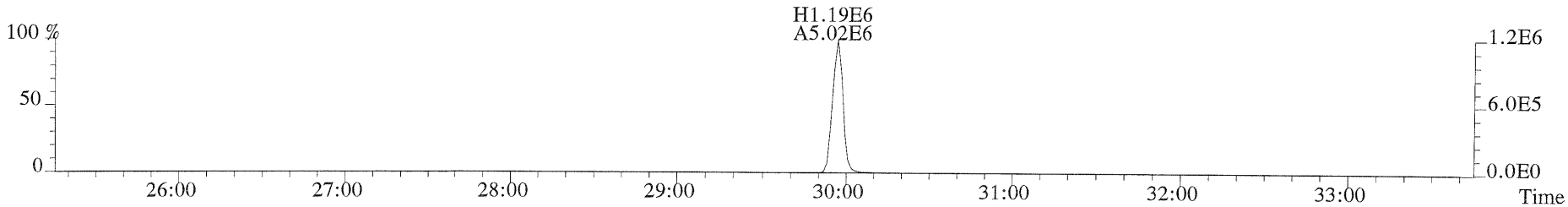
File:19SEP16Z #1-403 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



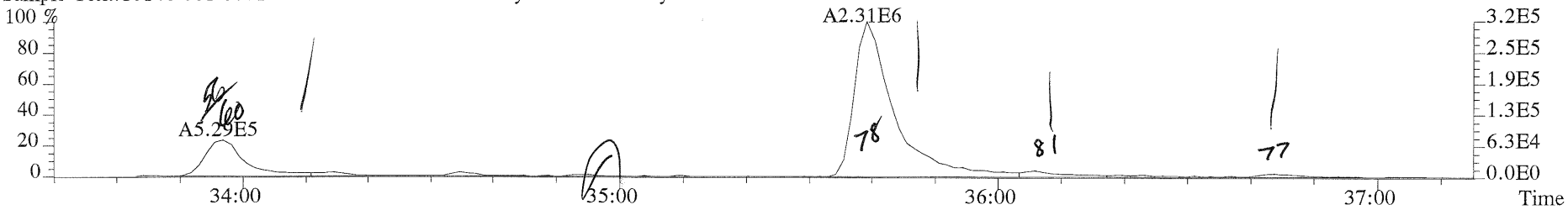
File:19SEP16Z #1-403 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



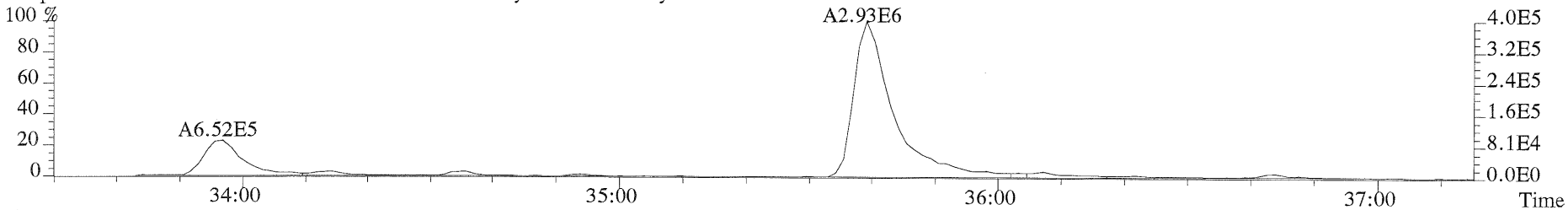
File:19SEP16Z #1-403 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



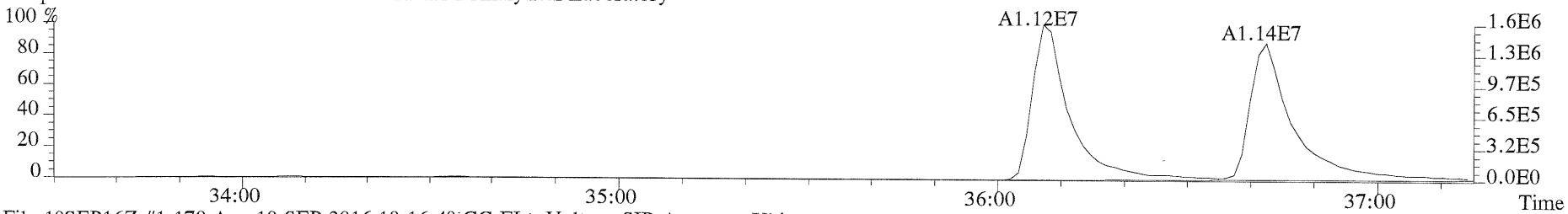
File:19SEP16Z #1-179 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



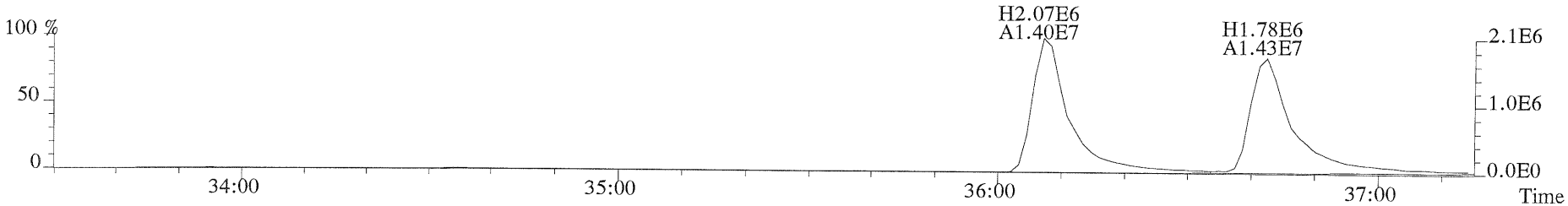
File:19SEP16Z #1-179 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



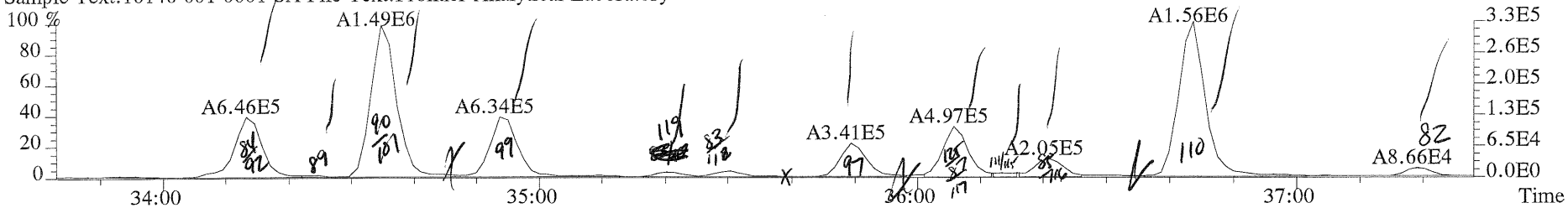
File:19SEP16Z #1-179 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



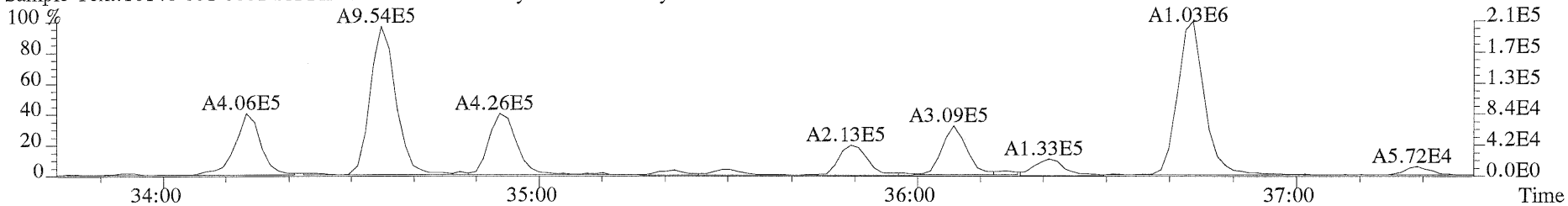
File:19SEP16Z #1-179 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



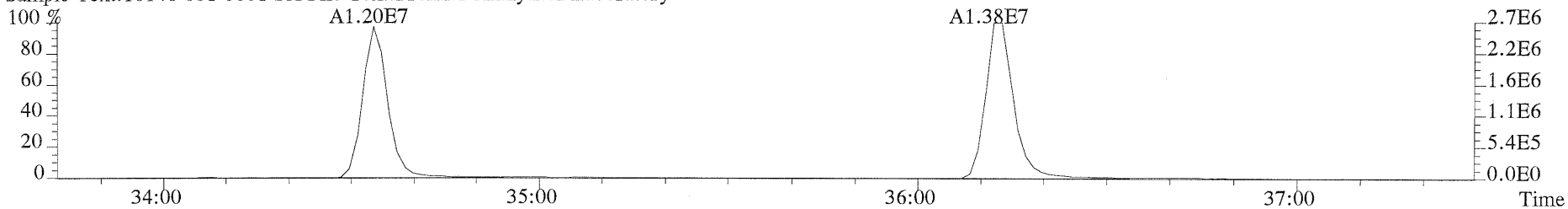
File:19SEP16Z #1-179 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



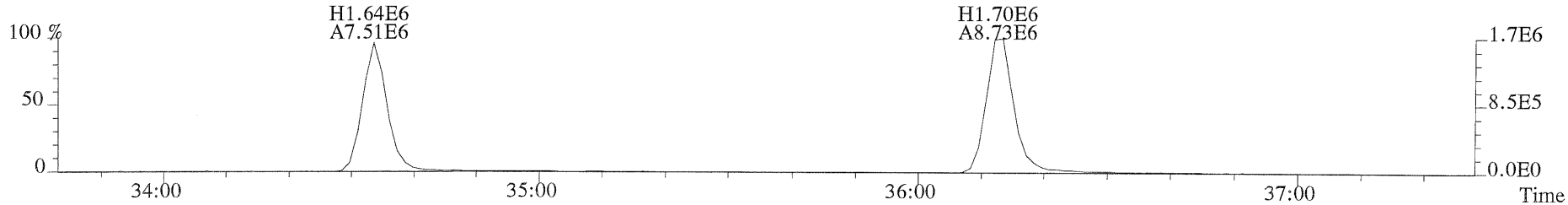
File:19SEP16Z #1-179 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



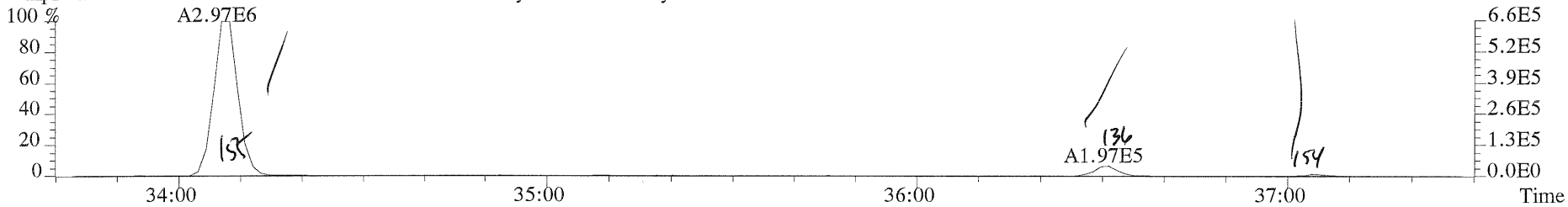
File:19SEP16Z #1-179 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



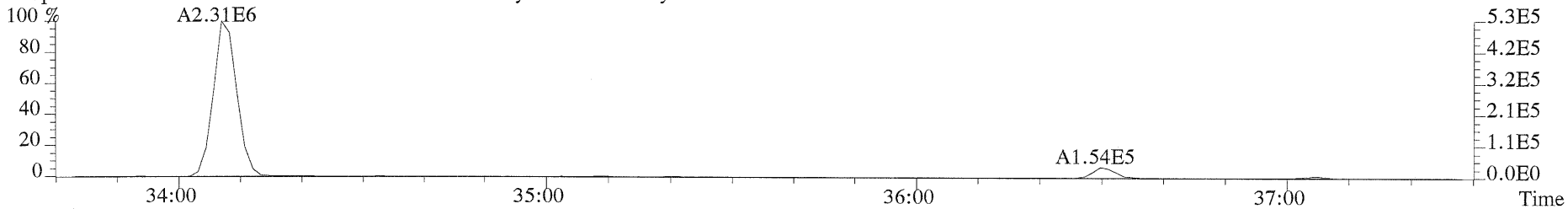
File:19SEP16Z #1-179 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



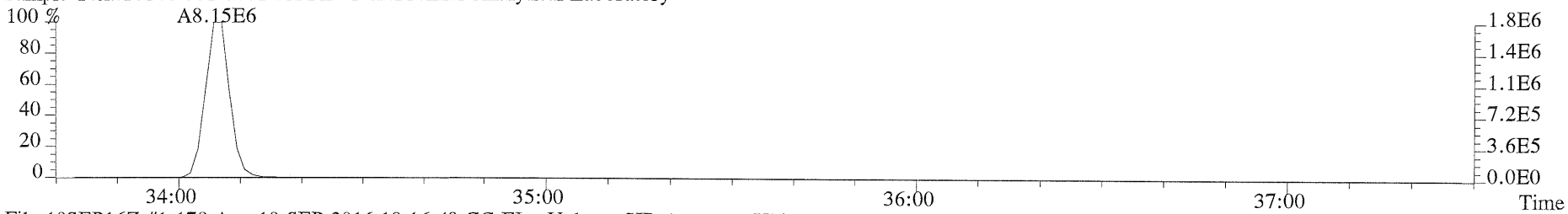
File:19SEP16Z #1-179 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



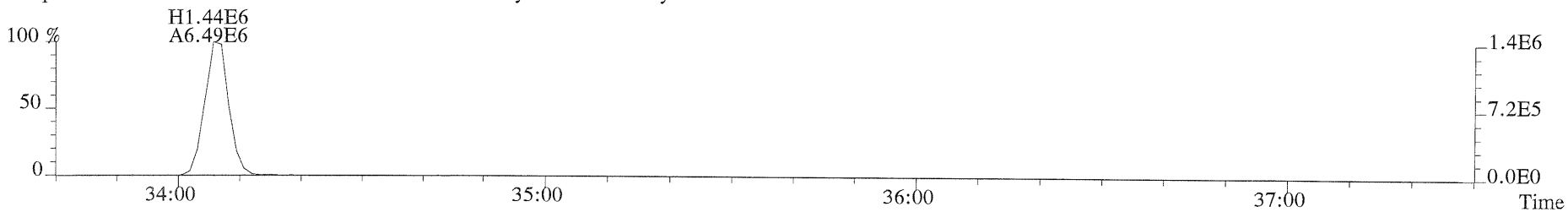
File:19SEP16Z #1-179 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



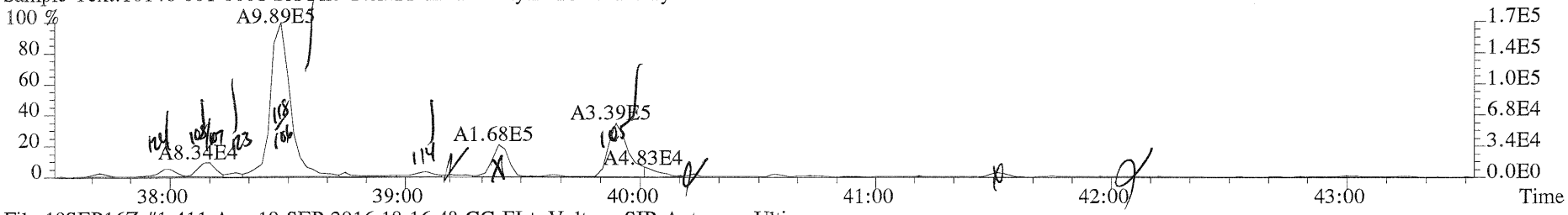
File:19SEP16Z #1-179 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



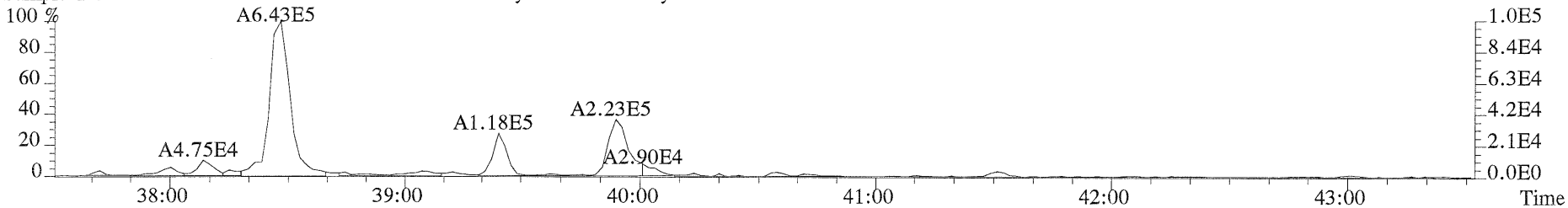
File:19SEP16Z #1-179 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



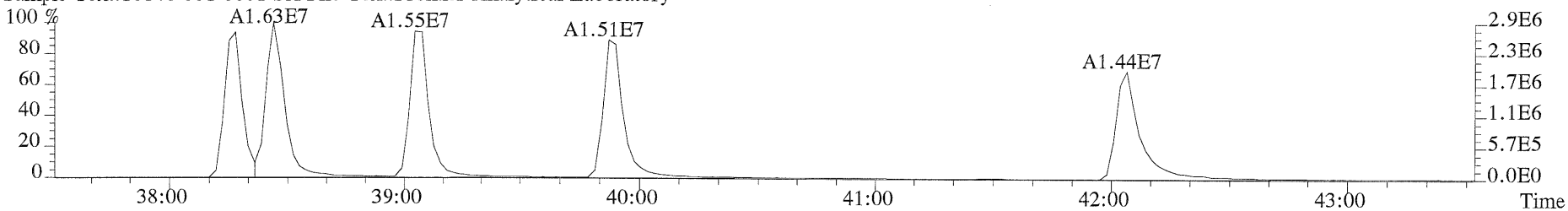
File:19SEP16Z #1-411 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



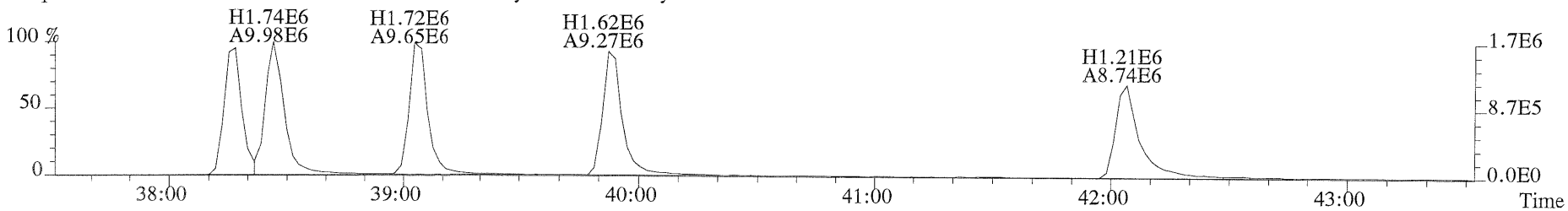
File:19SEP16Z #1-411 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



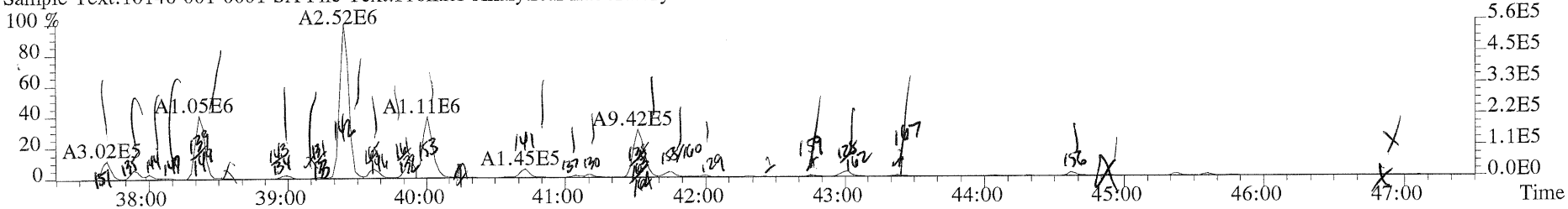
File:19SEP16Z #1-411 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



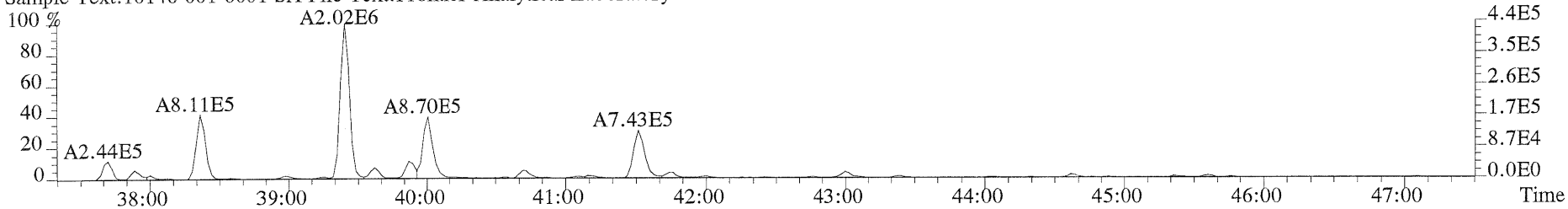
File:19SEP16Z #1-411 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



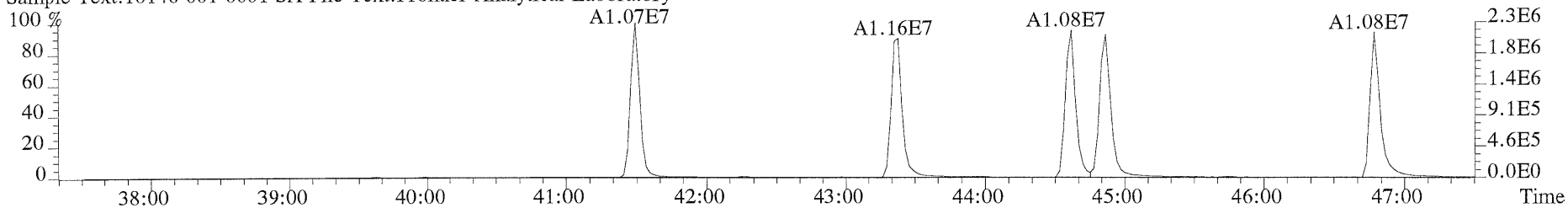
File:19SEP16Z #1-411 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



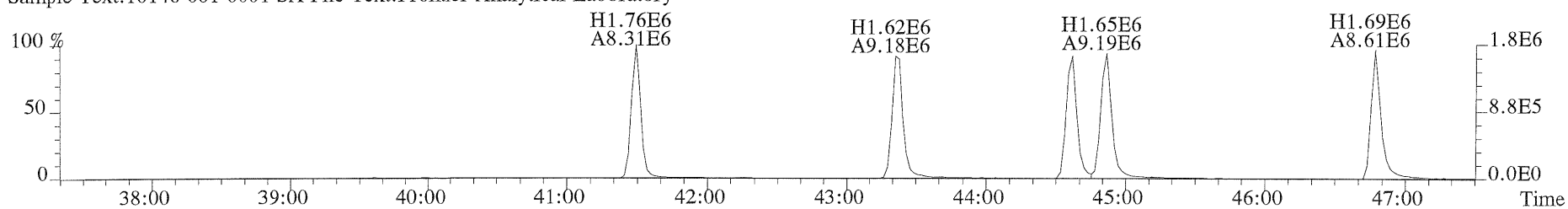
File:19SEP16Z #1-411 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



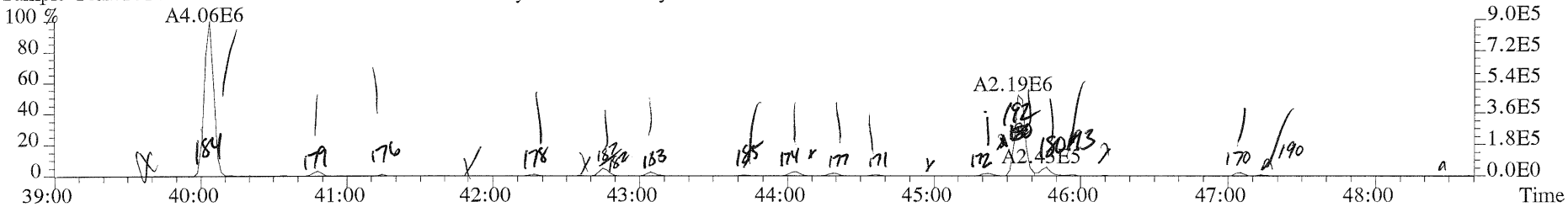
File:19SEP16Z #1-411 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



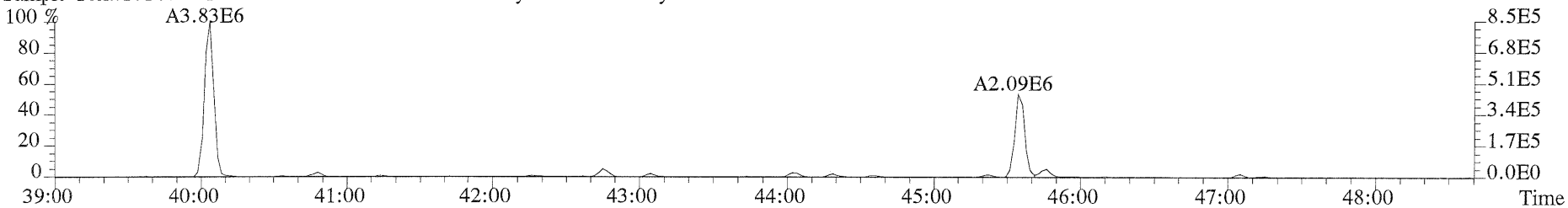
File:19SEP16Z #1-411 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



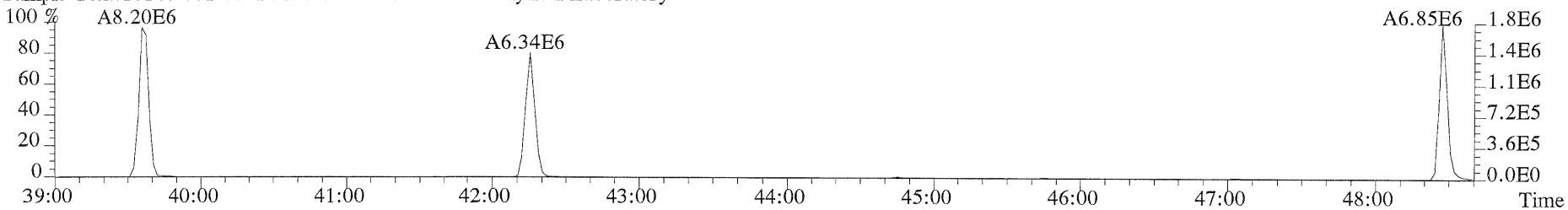
File:19SEP16Z #1-411 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



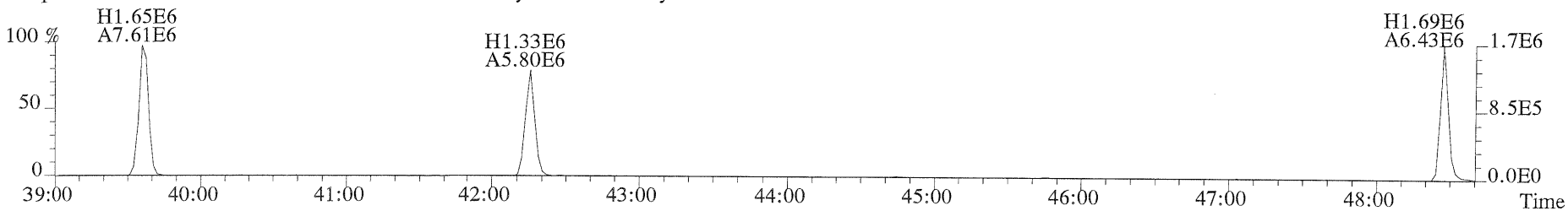
File:19SEP16Z #1-411 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



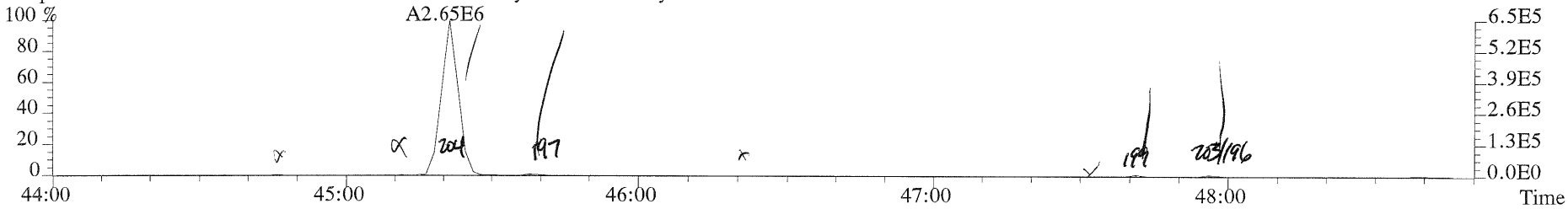
File:19SEP16Z #1-411 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



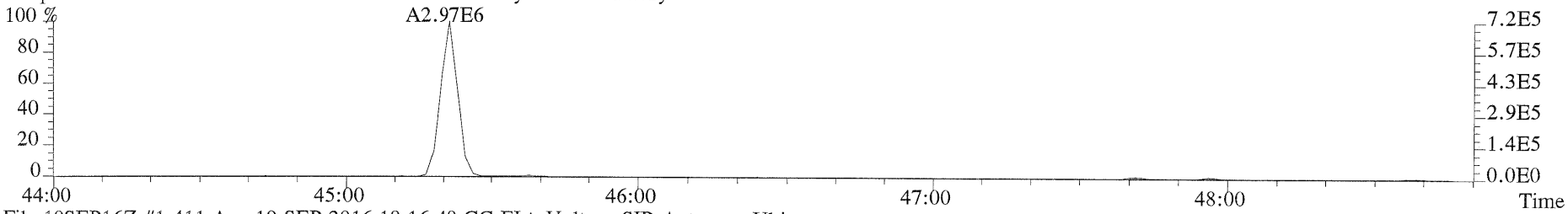
File:19SEP16Z #1-411 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



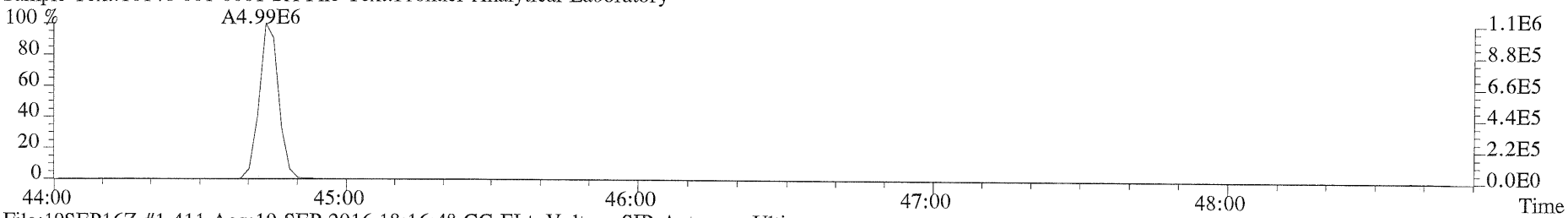
File:19SEP16Z #1-411 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



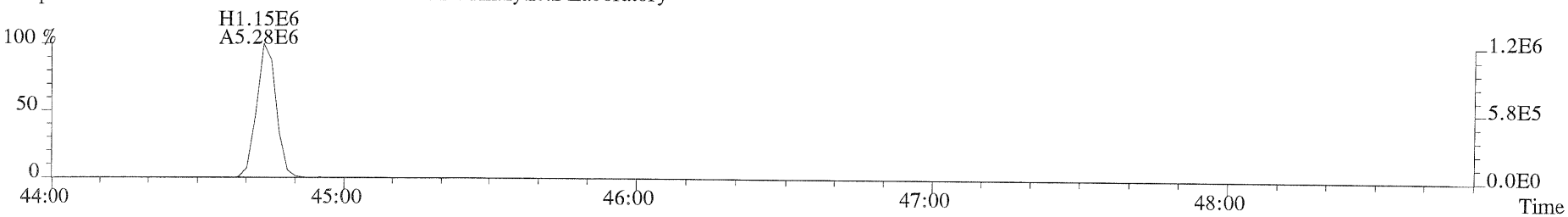
File:19SEP16Z #1-411 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



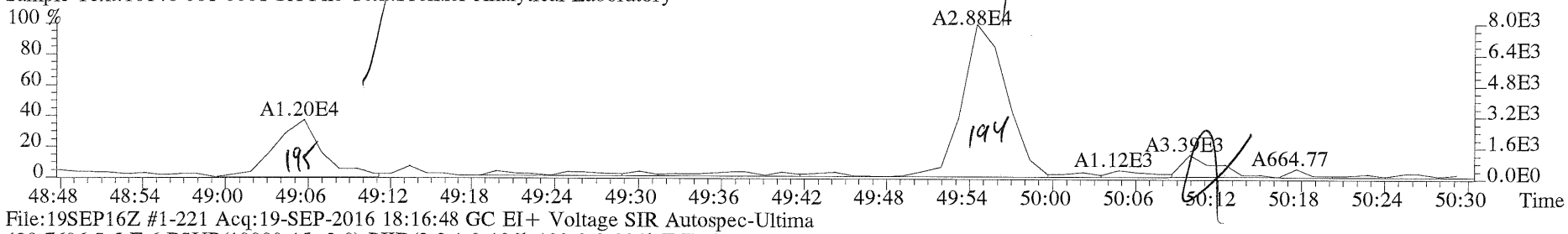
File:19SEP16Z #1-411 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



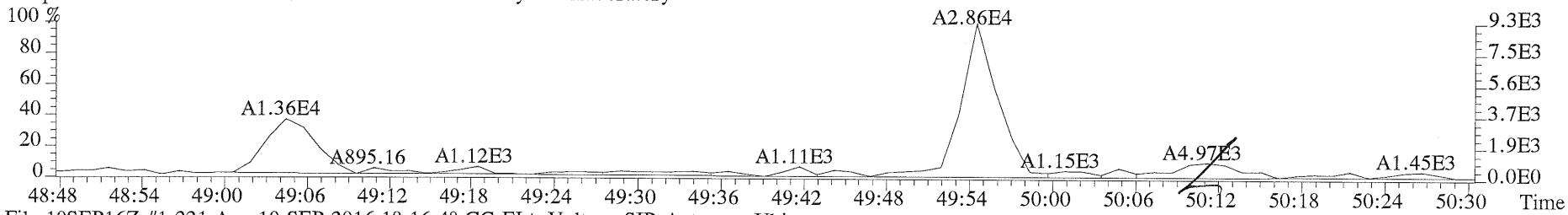
File:19SEP16Z #1-411 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



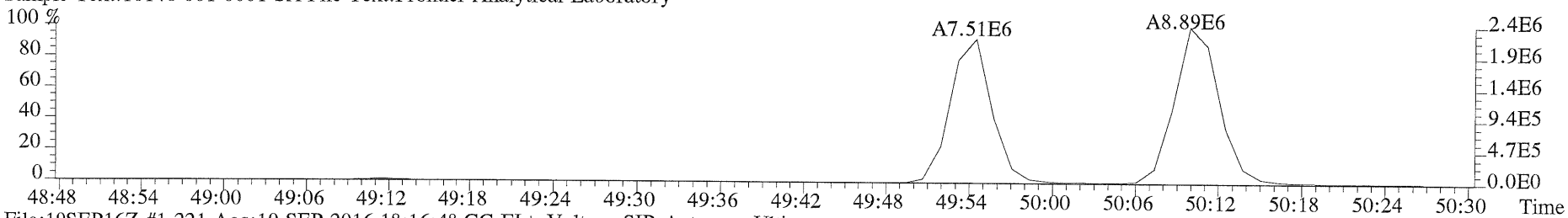
File:19SEP16Z #1-221 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



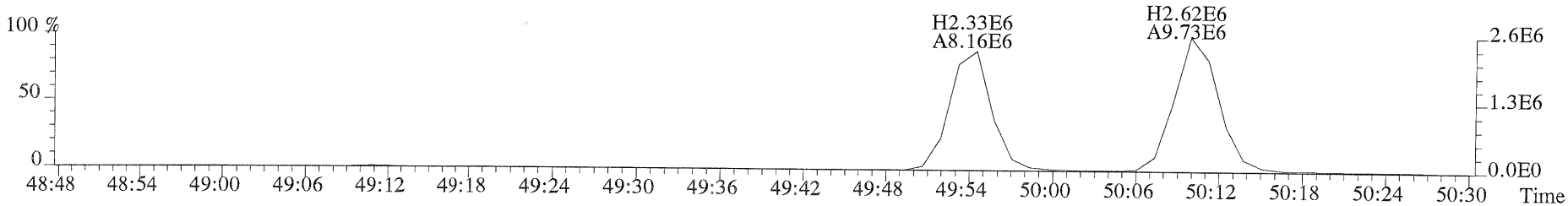
File:19SEP16Z #1-221 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



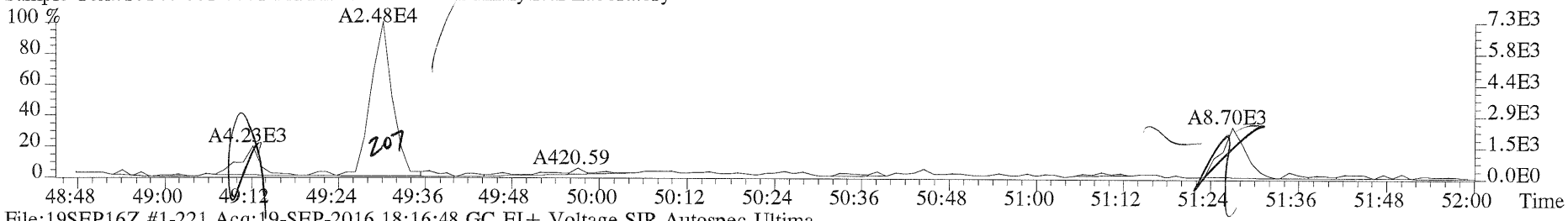
File:19SEP16Z #1-221 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



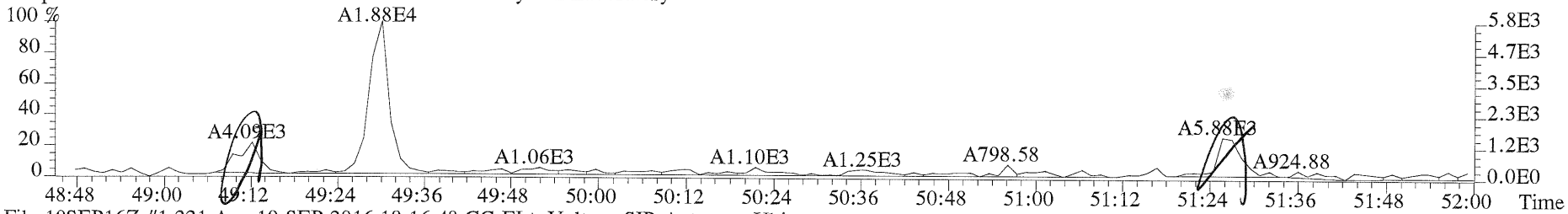
File:19SEP16Z #1-221 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



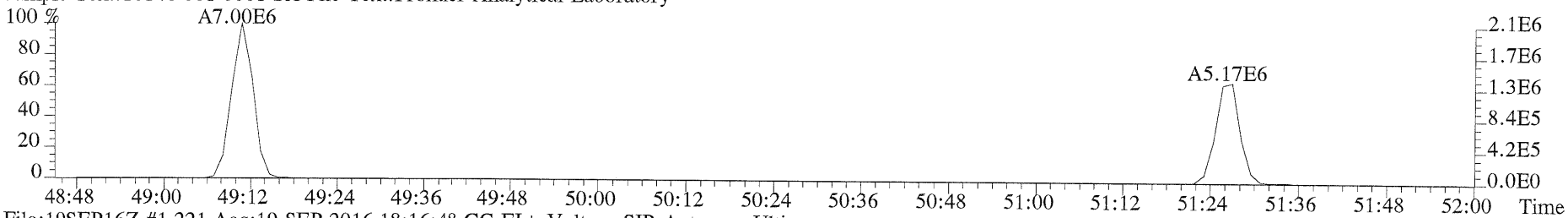
File:19SEP16Z #1-221 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



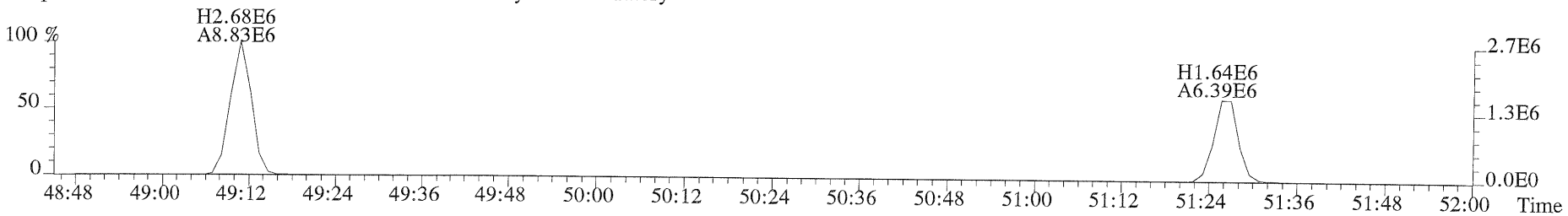
File:19SEP16Z #1-221 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



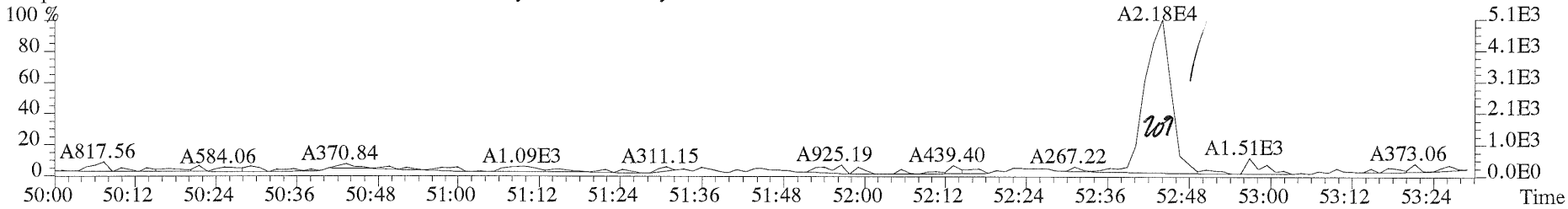
File:19SEP16Z #1-221 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



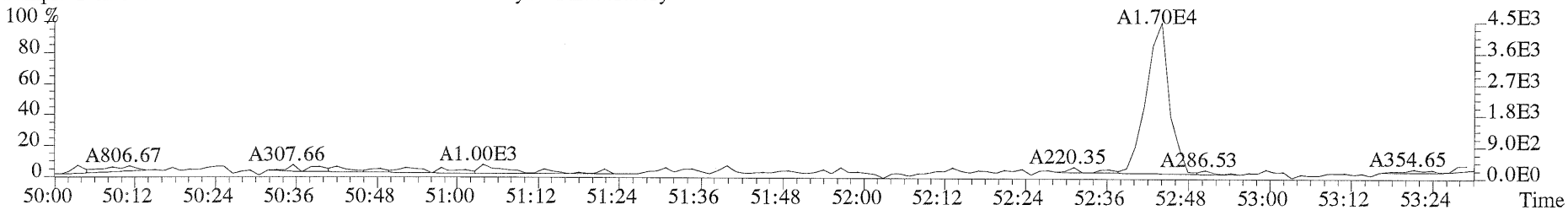
File:19SEP16Z #1-221 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



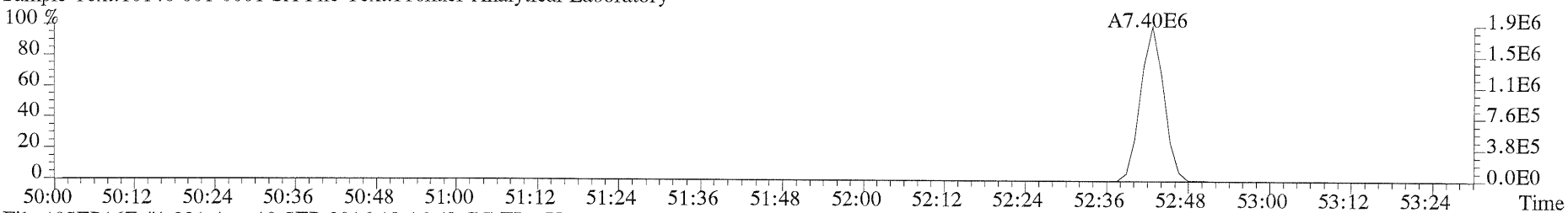
File:19SEP16Z #1-221 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



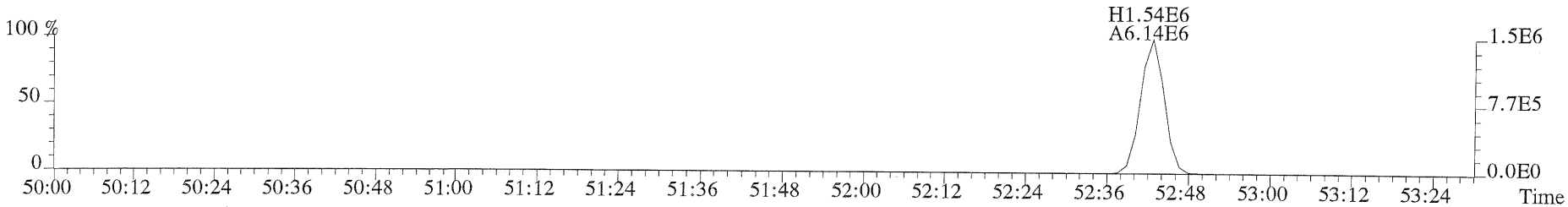
File:19SEP16Z #1-221 Acq:19-SEP-2016 18:16:48 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-001-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 18:16:48 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:10146-001-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 18:16:48 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:10146-001-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10146-002-0001-SA Filename: 21SEP16Z Sam:3 Acquired: 21-SEP-16 17:52:42 ICal: DAILY209FAL4-9-21-16
Client ID: LDW-BA-SC-ENR+AC-CB-S010 ConCal: ST092116Z1 EndCal: ST092116Z2
Results: 10146-2 GC Column: DB1 Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	
PCB-1	*	*	n	NotFnd	0.97	*		2400	1560	9.56		
13C-PCB-1	4.29e+07	3.11	y	14:31	1.18	9200					92.0	
PCB-2	*	*	n	NotFnd	0.80	*		1120	890	8.10		
PCB-3	*	*	n	NotFnd	1.06	*		1120	890	8.13		
13C-PCB-3	3.70e+07	3.18	y	17:01	1.07	8690					86.9	
PCB-4	5.95e+05	1.40	y	18:13	1.17	213		-	-	*		
PCB-10	1.22e+05	1.38	y	18:15	1.26	35.1		-	-	*		
13C-PCB-4	2.40e+07	1.57	y	18:11	0.63	9530					95.3	
PCB-9	9.83e+04	1.38	y	19:55	1.13	31.4		-	-	*		
PCB-7	1.29e+05	1.55	y	19:57	1.45	32.2		-	-	*		
PCB-6	6.22e+05	1.38	y	20:34	1.35	167		-	-	*		
PCB-8	1.58e+06	1.43	y	20:56	1.36	420		-	-	*		
PCB-5	5.58e+05	1.42	y	21:00	1.21	166		-	-	*		
PCB-14	5.17e+05	1.60	y	22:01	1.31	142		-	-	*		
PCB-11	*	*	n	NotFnd	1.12	*		1080	878	10.5		
PCB-13	*	*	n	NotFnd	1.02	*		1080	878	11.6		
PCB-12	2.07e+05	1.64	y	23:40	1.24	60.5		-	-	*		
PCB-15	2.96e+05	1.46	y	23:50	1.23	76.8		-	-	*		
13C-PCB-15	3.15e+07	1.59	y	23:49	0.89	8900					89.0	
PCB-19	6.49e+05	1.14	y	22:06	1.05	231		-	-	*		
PCB-30	*	*	n	NotFnd	1.46	*		2510	1130	9.86		
PCB-18	5.24e+06	1.03	y	23:39	0.98	2000		-	-	*		
PCB-17	2.90e+06	1.02	y	23:49	1.11	978		-	-	*		
PCB-27	4.92e+05	1.04	y	24:21	1.36	136		-	-	*		
PCB-24	2.66e+05	1.10	y	24:22	1.45	68.9		-	-	*		
PCB-16	1.75e+06	1.03	y	24:50	1.15	569		-	-	*		
PCB-32	2.26e+06	1.02	y	24:52	1.31	649		-	-	*		
13C-PCB-19	2.66e+07	1.07	y	22:04	0.67	9950					99.5	
13C-PCB-9	3.97e+07	1.59	y	19:53	-	42.2						
PCB-34	*	*	n	NotFnd	1.30	*		991	987	15.7		
PCB-23	*	*	n	NotFnd	1.61	*		991	987	12.7		
PCB-29	*	*	n	NotFnd	1.36	*		991	987	15.0		
PCB-26	9.78e+05	1.04	y	26:09	1.47	292		-	-	*		
PCB-25	6.97e+05	1.07	y	26:19	1.79	171		-	-	*		
PCB-31	3.48e+06	0.98	y	26:38	1.39	1110		-	-	*		
PCB-28	6.06e+06	1.07	y	26:43	1.84	1450		-	-	*		
PCB-20	3.07e+06	1.01	y	27:20	1.52	890		-	-	*		Co-elute PCB 21/33
PCB-21	3.07e+06	1.01	y	27:20	1.52	890		-	-	*		Co-elute PCB 20/33
PCB-33	3.07e+06	1.01	y	27:20	1.52	890		-	-	*		Co-elute PCB 20/21
PCB-22	1.52e+06	1.04	y	27:45	1.45	464		-	-	*		
PCB-36	2.73e+06	1.06	y	28:23	1.27	948		-	-	*		
PCB-39	*	*	n	NotFnd	1.32	*		991	987	15.5		
PCB-38	*	*	n	NotFnd	1.29	*		991	987	15.9		
PCB-35	*	*	n	NotFnd	1.25	*		991	987	16.4		
PCB-37	3.69e+05	1.14	y	30:28	1.35	121		-	-	*		
13C-PCB-37	2.27e+07	1.07	y	30:28	0.84	9620					96.2	

PCB-54	5.20e+04	0.78	y	25:38	1.03	17.1	J	-	-	*	
PCB-50	5.21e+04	0.84	y	26:45	0.76	23.2		-	-	*	
PCB-53	1.20e+06	0.78	y	27:20	0.77	529		-	-	*	
PCB-51	4.03e+05	0.75	y	27:40	0.77	178		-	-	*	
PCB-45	1.01e+06	0.75	y	28:04	0.68	505		-	-	*	
PCB-46	4.11e+05	0.78	y	28:32	0.63	222		-	-	*	
PCB-52	6.86e+06	0.78	y	28:59	0.90	2590		-	-	*	Co-elute PCB 69
PCB-69	6.86e+06	0.78	y	28:59	0.90	2590		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	0.91	*		1820	1950	14.5	
PCB-43	4.24e+06	0.80	y	29:16	0.72	2000		-	-	*	Co-elute PCB 49
PCB-49	4.24e+06	0.80	y	29:16	0.72	2000		-	-	*	Co-elute PCB 43
PCB-47	1.54e+06	0.81	y	29:28	0.85	612		-	-	*	
PCB-48	1.49e+06	0.74	y	29:34	0.90	557		-	-	*	Co-elute PCB 75
PCB-75	1.49e+06	0.74	y	29:34	0.90	557		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.95	*		1820	1950	13.9	
PCB-62	*	*	n	NotFnd	0.90	*		1820	1950	14.6	
PCB-44	3.69e+06	0.77	y	30:13	0.64	1950		-	-	*	
PCB-42	1.91e+06	0.76	y	30:26	0.84	765		-	-	*	Co-elute PCB 59
PCB-59	1.91e+06	0.76	y	30:26	0.84	765		-	-	*	Co-elute PCB 42
PCB-72	4.46e+06	0.78	y	31:00	0.91	1650		-	-	*	Co-elute PCB 41/71/64
PCB-41	4.46e+06	0.78	y	31:00	0.91	1650		-	-	*	Co-elute PCB 72/71/64
PCB-71	4.46e+06	0.78	y	31:00	0.91	1650		-	-	*	Co-elute PCB 72/41/64
PCB-64	4.46e+06	0.78	y	31:00	0.91	1650		-	-	*	Co-elute PCB 72/41/71
PCB-68	9.38e+04	0.80	y	31:14	0.97	32.6		-	-	*	
PCB-40	6.37e+05	0.82	y	31:27	0.58	373		-	-	*	
PCB-57	6.24e+04	0.77	y	31:48	0.86	24.6		-	-	*	
PCB-67	1.50e+05	0.84	y	32:06	0.92	55.5		-	-	*	
PCB-58	*	*	n	NotFnd	0.90	*		1820	1950	14.7	
PCB-63	1.86e+05	0.78	y	32:21	0.94	67.2		-	-	*	
PCB-74	1.73e+06	0.81	y	32:37	0.98	595		-	-	*	
PCB-61	3.97e+06	0.80	y	32:50	0.95	1410		-	-	*	Co-elute PCB 70
PCB-70	3.97e+06	0.80	y	32:50	0.95	1410		-	-	*	Co-elute PCB 61
PCB-76	3.62e+06	0.78	y	33:03	0.96	1280		-	-	*	Co-elute PCB 66
PCB-66	3.62e+06	0.78	y	33:03	0.96	1280		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.02	*		1820	1950	12.8	
PCB-55	1.62e+05	0.80	y	33:32	0.91	60.1		-	-	*	
13C-PCB-54	2.95e+07	0.79	y	25:36	1.20	8710					87.1
PCB-104	5.61e+06	1.51	y	30:03	1.09	2020		-	-	*	
PCB-96	1.21e+05	1.36	y	31:15	1.00	47.6		-	-	*	
PCB-103	1.35e+05	1.50	y	31:47	0.81	65.5		-	-	*	
PCB-100	8.52e+04	1.34	y	32:06	0.82	40.7		-	-	*	
PCB-94	4.41e+04	1.37	y	32:32	0.70	24.9		-	-	*	
PCB-98	*	*	n	NotFnd	0.86	*		920	1480	11.4	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.86	*		920	1480	11.4	Co-elute PCB 98
PCB-95	5.16e+06	1.58	y	33:04	0.75	2720		-	-	*	
PCB-93	*	*	n	NotFnd	0.71	*		920	1480	13.8	
PCB-88	7.80e+05	1.55	y	33:27	0.74	415		-	-	*	Co-elute PCB 91
PCB-91	7.80e+05	1.55	y	33:27	0.74	415		-	-	*	Co-elute PCB 88
PCB-121	7.20e+06	1.55	y	33:30	0.98	2900		-	-	*	
13C-PCB-104	2.54e+07	1.56	y	30:02	0.99	9050					90.5
13C-PCB-28	2.85e+07	1.07	y	26:43	1.11	9070					90.7
13C-PCB-52	2.82e+07	0.79	y	28:57	-	45.7					

PCB-56	1.84e+06	0.78	y	34:01	1.13	691	-	-	*	Co-elute PCB 60
PCB-60	1.84e+06	0.78	y	34:01	1.13	691	-	-	*	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.06	*	750	1280	14.3	
PCB-78	4.68e+06	0.76	y	35:43	0.96	2060	-	-	*	
PCB-81	1.80e+05	0.76	y	36:09	1.05	73.3	-	-	*	
13C-PCB-81	2.34e+07	0.80	y	36:12	0.97	9070				90.7
PCB-77	1.64e+05	0.76	y	36:47	0.98	70.6	-	-	*	
13C-PCB-77	2.36e+07	0.81	y	36:46	0.98	9090				90.9
PCB-155	9.36e+06	1.26	y	34:13	1.05	3280	-	-	*	
PCB-150	*	*	n	NotFnd	0.95	*	968	948	8.04	
PCB-152	*	*	n	NotFnd	0.94	*	968	948	8.08	
PCB-145	*	*	n	NotFnd	0.92	*	968	948	8.25	
PCB-136	9.94e+05	1.23	y	36:36	0.90	408	-	-	*	
PCB-148	9.94e+05	1.23	y	36:36	0.73	503	-	-	*	
PCB-154	1.29e+05	1.21	y	37:09	0.83	57.2	-	-	*	
13C-PCB-155	2.71e+07	1.28	y	34:11	1.13	9050				90.5
13C-PCB-111	2.94e+07	1.59	y	36:17	1.11	9950				99.5
13C-PCB-101	2.66e+07	1.60	y	34:38	-	46.1				
PCB-84	2.08e+06	1.53	y	34:18	0.88	1020	-	-	*	Co-elute PCB 92
PCB-92	2.08e+06	1.53	y	34:18	0.88	1020	-	-	*	Co-elute PCB 84
PCB-89	8.02e+04	1.52	y	34:28	0.84	41.2	-	-	*	
PCB-90	4.92e+06	1.54	y	34:40	0.99	2150	-	-	*	Co-elute PCB 101
PCB-101	4.92e+06	1.54	y	34:40	0.99	2150	-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.10	*	877	1120	10.5	
PCB-99	2.01e+06	1.54	y	34:59	1.07	812	-	-	*	
PCB-119	1.55e+05	1.62	y	35:25	1.18	56.9	-	-	*	
PCB-83	2.16e+05	1.51	y	35:35	1.00	93.4	-	-	*	Co-elute PCB 112
PCB-112	2.16e+05	1.51	y	35:35	1.00	93.4	-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.18	*	877	1120	9.78	
PCB-97	1.09e+06	1.61	y	35:54	1.04	452	-	-	*	
PCB-86	*	*	n	NotFnd	0.96	*	877	1120	12.0	
PCB-125	1.60e+06	1.59	y	36:11	1.06	652	-	-	*	Co-elute PCB 87/117
PCB-87	1.60e+06	1.59	y	36:11	1.06	652	-	-	*	Co-elute PCB 125/117
PCB-117	1.60e+06	1.59	y	36:11	1.06	652	-	-	*	Co-elute PCB 125/87
PCB-111	1.23e+05	1.48	y	36:20	1.40	37.9	-	-	*	Co-elute PCB 115
PCB-115	1.23e+05	1.48	y	36:20	1.40	37.9	-	-	*	Co-elute PCB 111
PCB-85	5.89e+05	1.39	y	36:26	1.01	252	-	-	*	Co-elute PCB 116
PCB-116	5.89e+05	1.39	y	36:26	1.01	252	-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.18	*	877	1120	9.75	
PCB-110	4.74e+06	1.52	y	36:49	1.34	1520	-	-	*	
PCB-82	3.32e+05	1.37	y	37:24	0.73	197	-	-	*	
PCB-124	1.08e+05	1.41	y	38:05	0.98	47.7	-	-	*	
PCB-108	2.09e+05	1.61	y	38:13	1.05	85.9	-	-	*	Co-elute PCB 107
PCB-107	2.09e+05	1.61	y	38:13	1.05	85.9	-	-	*	Co-elute PCB 108
PCB-123	5.42e+04	1.64	y	38:22	1.25	20.4	-	-	*	
13C-PCB-123	2.13e+07	1.57	y	38:22	1.05	8710				87.1
PCB-118	2.23e+06	1.46	y	38:33	0.96	924	-	-	*	Co-elute PCB 106
PCB-106	2.23e+06	1.46	y	38:33	0.96	924	-	-	*	Co-elute PCB 118
13C-PCB-118	2.51e+07	1.60	y	38:31	1.14	9500				95.0
PCB-114	5.10e+04	1.44	y	39:09	1.04	21.1	-	-	*	
13C-PCB-114	2.32e+07	1.57	y	39:08	1.08	9270				92.7
PCB-122	7.53e+04	1.37	y	39:14	1.05	31.0	-	-	*	
PCB-105	8.55e+05	1.46	y	39:59	1.03	356	-	-	*	
13C-PCB-105	2.32e+07	1.56	y	39:57	1.06	9390				93.9

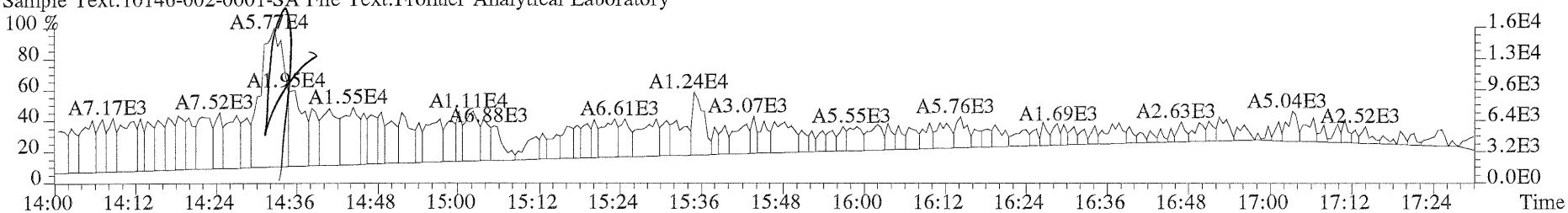
PCB-127	*	*	n	NotFnd	0.95	*	630	890	9.22		
PCB-126	*	*	n	NotFnd	1.04	*	630	890	13.0		
13C-PCB-126	2.07e+07	1.56	y	42:09	1.00	8900				89.0	
PCB-151	9.93e+05	1.25	y	37:47	0.82	496	-	-	*		
PCB-135	4.92e+05	1.42	y	37:58	0.73	277	-	-	*		
PCB-144	2.14e+05	1.06	y	38:05	0.96	92.4	-	-	*		
PCB-147	6.82e+04	1.18	y	38:13	0.86	32.6	-	-	*		
PCB-139	3.35e+06	1.24	y	38:26	0.90	1540	-	-	*	Co-elute PCB 149	
PCB-149	3.35e+06	1.24	y	38:26	0.90	1540	-	-	*	Co-elute PCB 139	
PCB-140	*	*	n	NotFnd	0.85	*	1090	1170	15.1		
PCB-143	1.87e+05	1.23	y	39:04	0.81	95.6	-	-	*	Co-elute PCB 134	
PCB-134	1.87e+05	1.23	y	39:04	0.81	95.6	-	-	*	Co-elute PCB 143	
PCB-131	8.67e+04	1.21	y	39:19	0.82	43.7	-	-	*	Co-elute PCB 133	
PCB-133	8.67e+04	1.21	y	39:19	0.82	43.7	-	-	*	Co-elute PCB 131	
PCB-142	5.16e+06	1.23	y	39:29	0.69	3070	-	-	*		
PCB-165	5.73e+05	1.23	y	39:42	0.95	247	-	-	*	Co-elute PCB 146	
PCB-146	5.73e+05	1.23	y	39:42	0.95	247	-	-	*	Co-elute PCB 165	
PCB-161	9.61e+05	1.30	y	39:57	0.90	441	-	-	*	Co-elute PCB 132	
PCB-132	9.61e+05	1.30	y	39:57	0.90	441	-	-	*	Co-elute PCB 161	
PCB-153	3.30e+06	1.25	y	40:05	0.96	1420	-	-	*		
PCB-168	*	*	n	NotFnd	1.05	*	1090	1170	12.1		
PCB-141	4.71e+05	1.21	y	40:48	0.81	241	-	-	*		
PCB-137	8.19e+04	1.28	y	41:09	0.77	43.6	-	-	*		
PCB-130	1.57e+05	1.11	y	41:16	0.72	90.5	-	-	*		
PCB-138	2.88e+06	1.21	y	41:36	1.07	1110	-	-	*	Co-elute PCB 163/164	
PCB-163	2.88e+06	1.21	y	41:36	1.07	1110	-	-	*	Co-elute PCB 138/164	
PCB-164	2.88e+06	1.21	y	41:36	1.07	1110	-	-	*	Co-elute PCB 138/163	
PCB-158	3.57e+05	1.34	y	41:49	1.06	139	-	-	*	Co-elute PCB 160	
PCB-160	3.57e+05	1.34	y	41:49	1.06	139	-	-	*	Co-elute PCB 158	
PCB-129	9.06e+04	1.29	y	42:04	0.68	54.5	-	-	*		
PCB-166	*	*	n	NotFnd	1.00	*	1090	1170	12.8		
PCB-159	*	*	n	NotFnd	1.06	*	1090	1170	12.0		
PCB-128	3.29e+05	1.18	y	43:05	0.88	155	-	-	*	Co-elute PCB 162	
PCB-162	3.29e+05	1.18	y	43:05	0.88	155	-	-	*	Co-elute PCB 128	
PCB-167	8.74e+04	1.31	y	43:28	0.96	37.0	-	-	*		
13C-PCB-167	2.44e+07	1.25	y	43:26	1.16	9040				90.4	
PCB-156	2.00e+05	1.28	y	44:42	1.01	82.7	-	-	*		
13C-PCB-156	2.39e+07	1.26	y	44:40	1.11	9290				92.9	
PCB-157	5.67e+04	1.06	y	44:58	1.03	21.7	-	-	*		
13C-PCB-157	2.55e+07	1.23	y	44:57	1.13	9740				97.4	
PCB-169	*	*	n	NotFnd	0.96	*	1090	1170	14.7		
13C-PCB-169	2.32e+07	1.23	y	46:52	1.05	9570				95.7	

FAL ID: 10146-002-0001-SA Filename: 21SEP16Z Sam:3 Acquired: 21-SEP-16 17:52:42 ICal: DAILY209FAL4-9-21-16
Client ID: LDW-BA-SC-ENR+AC-CB-S010 ConCal: ST092116Z1 EndCal: ST092116Z2
Results: 10146-2 GC Column: DB1 Amount: 1.000

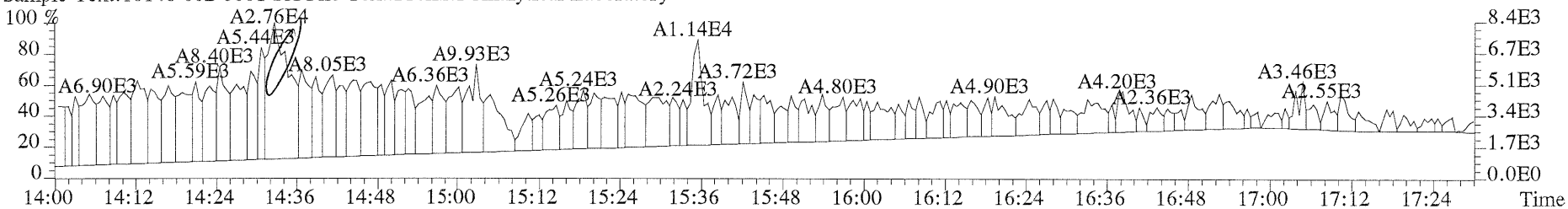
PCB-188	7.03e+04	1.11	y	39:41	1.09	24.8		-	-	*	
13C-PCB-188	2.60e+07	1.07	y	39:42	1.29	8660					86.6
PCB-184	1.24e+07	1.06	y	40:09	1.23	4150		-	-	*	
PCB-179	5.19e+05	1.15	y	40:53	1.17	183		-	-	*	
PCB-176	1.74e+05	0.98	y	41:19	1.14	63.1		-	-	*	
PCB-186	*	*	n	NotFnd	1.14	*		1570	812	10.0	
PCB-178	1.60e+05	1.14	y	42:22	0.82	80.8		-	-	*	
PCB-175	2.56e+04	1.15	y	42:42	0.85	12.4	J	-	-	*	
PCB-187	8.75e+05	1.05	y	42:50	0.93	388		-	-	*	Co-elute PCB 182
PCB-182	8.75e+05	1.05	y	42:50	0.93	388		-	-	*	Co-elute PCB 187
PCB-183	3.96e+05	1.07	y	43:10	0.92	178		-	-	*	
PCB-185	7.83e+04	1.17	y	43:47	0.84	38.3		-	-	*	
PCB-174	6.23e+05	1.01	y	44:07	0.87	296		-	-	*	
PCB-181	*	*	n	NotFnd	0.84	*		1570	812	13.7	
PCB-177	3.36e+05	1.09	y	44:24	0.77	179		-	-	*	
PCB-171	1.65e+05	1.12	y	44:40	0.82	83.0		-	-	*	
PCB-173	*	*	n	NotFnd	0.75	*		1570	812	15.3	
PCB-172	2.63e+05	1.01	y	45:26	0.75	146		-	-	*	
PCB-192	7.12e+06	1.02	y	45:39	1.00	2930		-	-	*	
PCB-180	1.01e+06	1.07	y	45:51	0.98	425		-	-	*	
PCB-193	1.06e+05	1.10	y	46:01	1.08	40.2		-	-	*	
PCB-191	*	*	n	NotFnd	1.04	*		1570	812	11.0	
PCB-170	3.59e+05	1.12	y	47:08	0.72	206		-	-	*	
PCB-190	1.24e+05	1.05	y	47:18	0.98	52.5		-	-	*	
PCB-189	*	*	n	NotFnd	1.09	*		1570	812	10.9	
13C-PCB-189	2.25e+07	1.06	y	48:31	1.00	9630					96.3
PCB-202	5.86e+04	1.00	y	44:50	0.93	26.5		-	-	*	
PCB-201	*	*	n	NotFnd	0.93	*		504	848	7.09	
PCB-204	1.26e+07	0.91	y	45:26	0.93	5710		-	-	*	
PCB-197	1.26e+05	0.82	y	45:41	0.96	55.3		-	-	*	
PCB-200	4.61e+04	0.89	y	46:29	0.91	21.4		-	-	*	
PCB-198	*	*	n	NotFnd	0.61	*		504	848	10.8	
PCB-199	1.43e+05	0.83	y	47:44	0.70	85.7		-	-	*	
PCB-203	1.67e+05	0.95	y	48:01	0.72	97.9		-	-	*	Co-elute PCB 196
PCB-196	1.67e+05	0.95	y	48:01	0.72	97.9		-	-	*	Co-elute PCB 203
13C-PCB-202	2.37e+07	0.91	y	44:48	1.13	9000					90.0
13C-PCB-178	2.03e+07	1.06	y	42:20	0.86	10100					101
13C-PCB-138	2.32e+07	1.26	y	41:34	-	48.6					
PCB-195	5.44e+04	0.89	y	49:08	0.79	35.2		-	-	*	
PCB-194	1.06e+05	0.96	y	49:58	0.82	66.1		-	-	*	
PCB-205	2.57e+04	0.82	y	50:15	1.08	12.2	J	-	-	*	
13C-PCB-205	1.96e+07	0.90	y	50:14	1.26	8970					89.7
PCB-208	2.33e+04	1.21	y	49:16	1.02	11.4	J	-	-	*	
13C-PCB-208	2.02e+07	0.80	y	49:15	1.27	9240					92.4
PCB-207	6.68e+04	1.35	y	49:34	1.13	34.3		-	-	*	
PCB-206	3.84e+04	1.39	y	51:32	1.03	26.1		-	-	*	
13C-PCB-206	1.43e+07	0.80	y	51:31	0.90	9170					91.7
PCB-209	8.41e+04	1.19	y	52:49	1.06	39.4		-	-	*	
13C-PCB-209	2.01e+07	1.18	y	52:48	1.37	8500					85.0
13C-PCB-194	1.73e+07	0.92	y	49:58	-	50.7					

Analyst: [signature] Date: 9/22/16

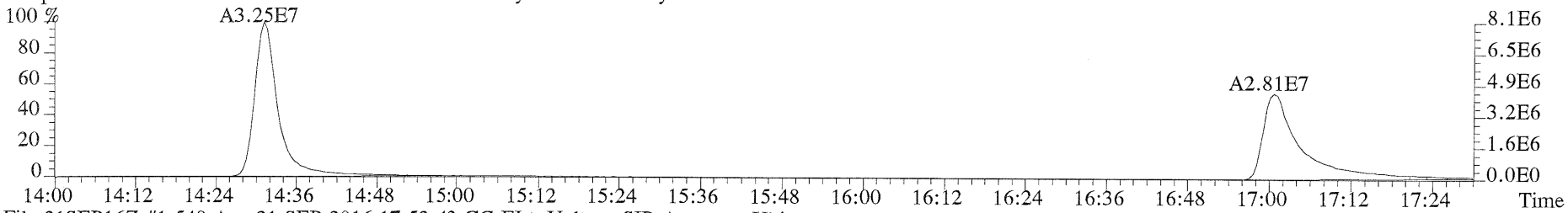
File:21SEP16Z #1-548 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



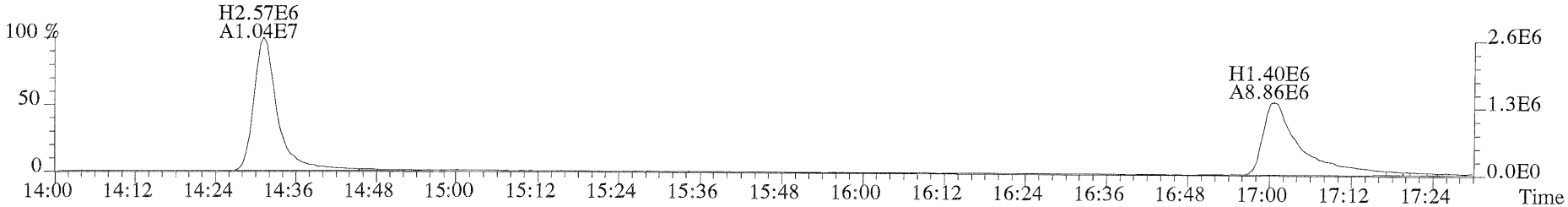
File:21SEP16Z #1-548 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



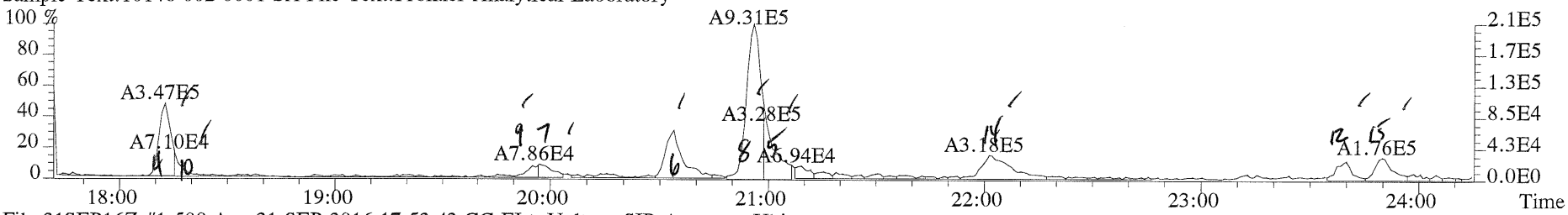
File:21SEP16Z #1-548 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



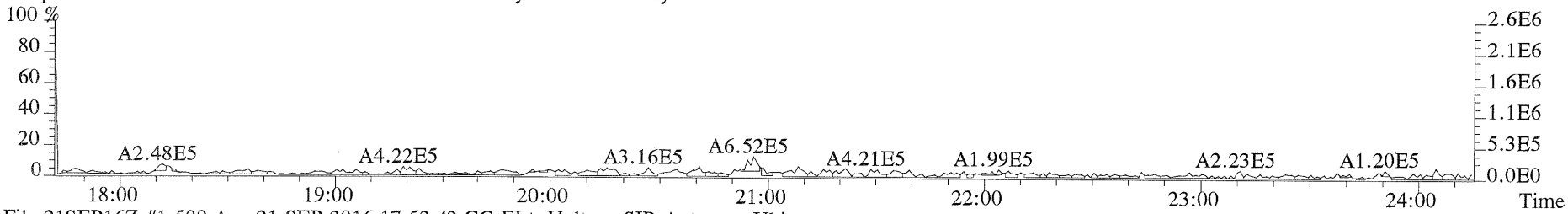
File:21SEP16Z #1-548 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



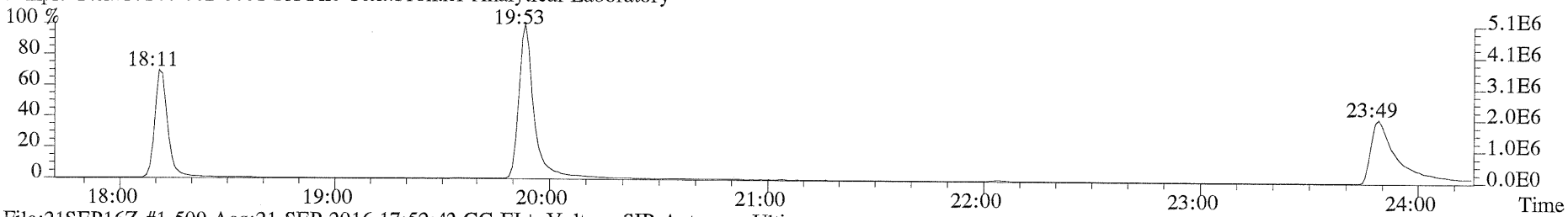
File:21SEP16Z #1-509 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



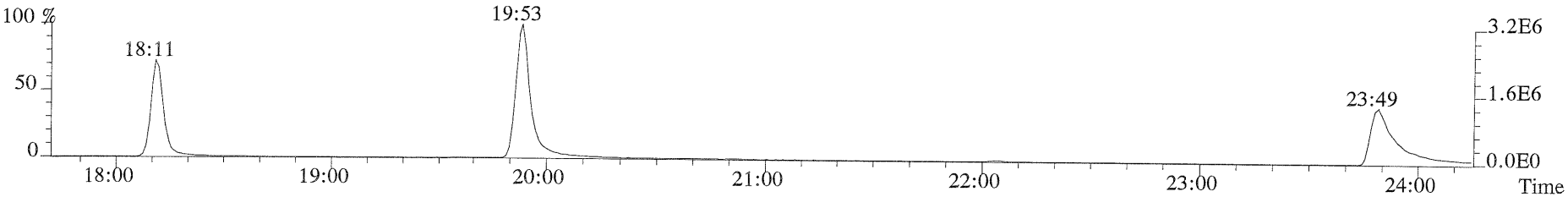
File:21SEP16Z #1-509 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



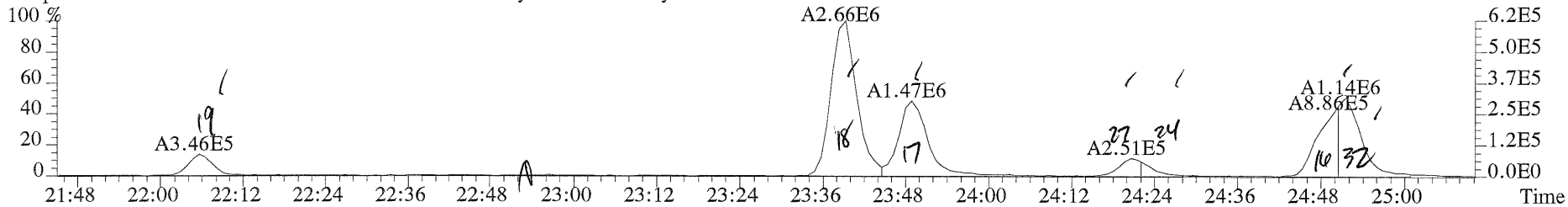
File:21SEP16Z #1-509 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



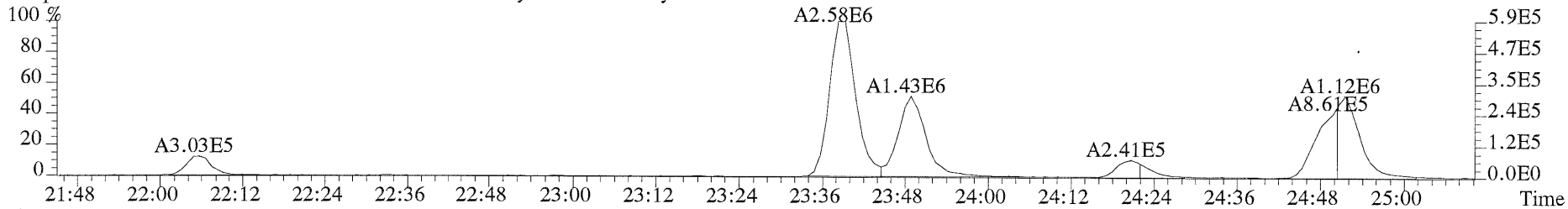
File:21SEP16Z #1-509 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



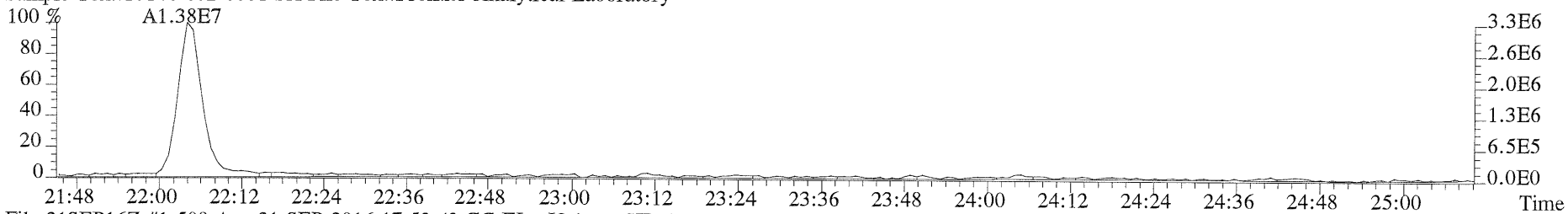
File:21SEP16Z #1-509 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



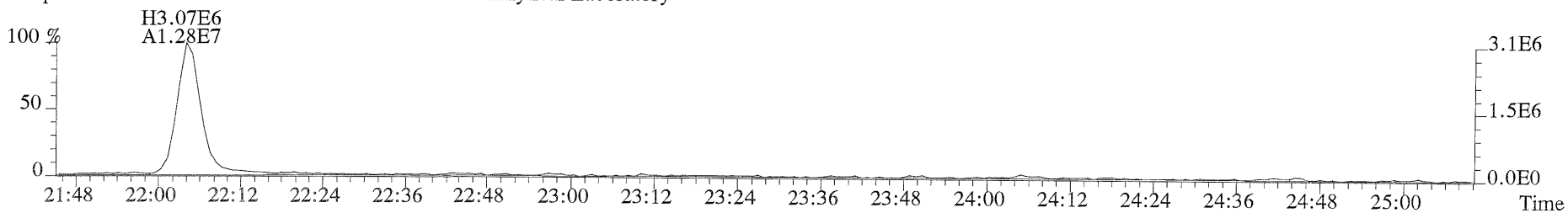
File:21SEP16Z #1-509 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



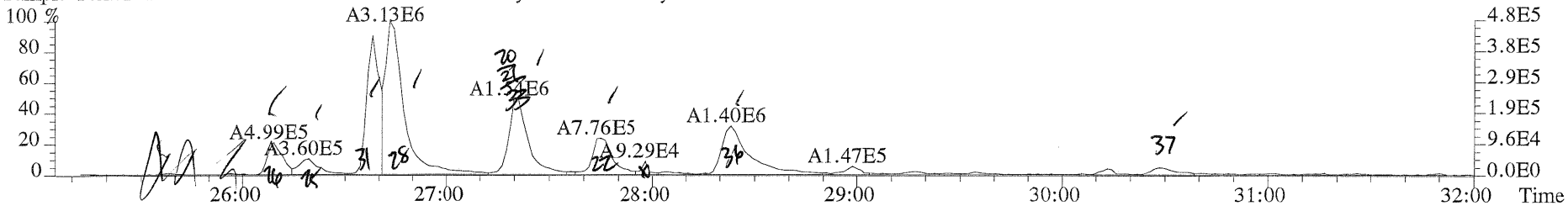
File:21SEP16Z #1-509 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



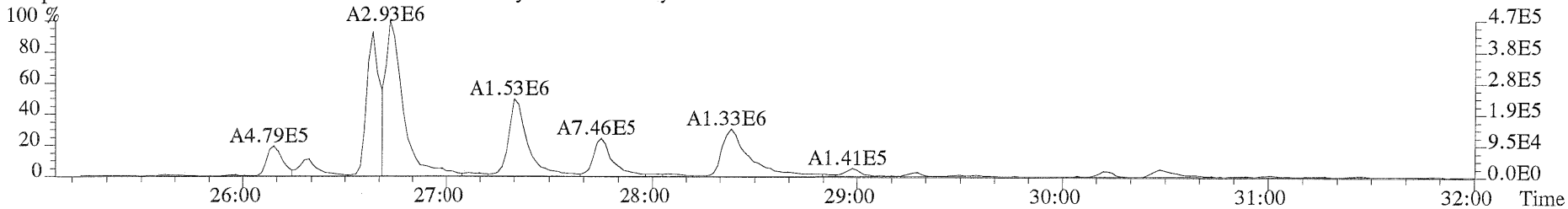
File:21SEP16Z #1-509 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



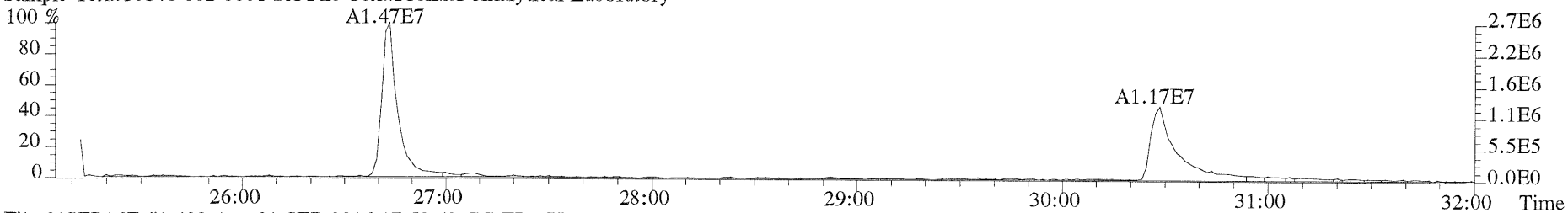
File:21SEP16Z #1-403 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



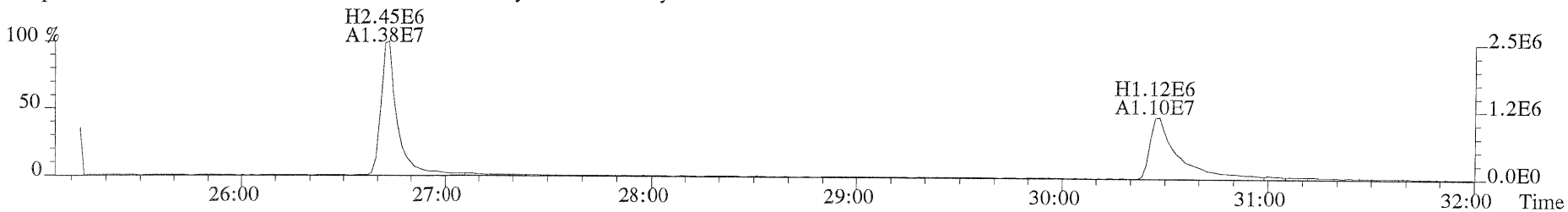
File:21SEP16Z #1-403 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



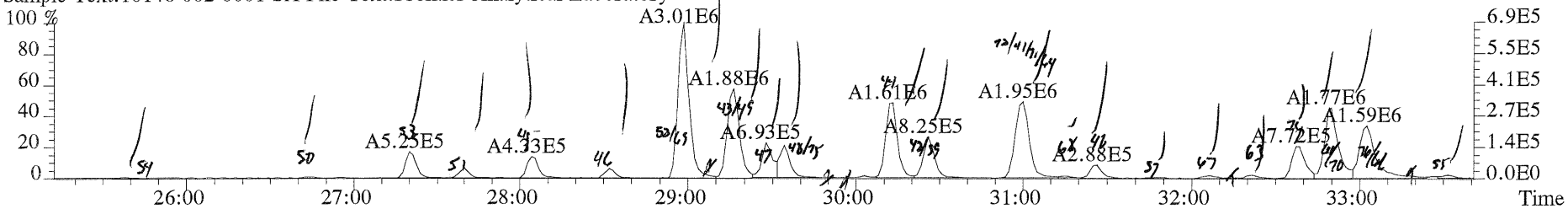
File:21SEP16Z #1-403 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



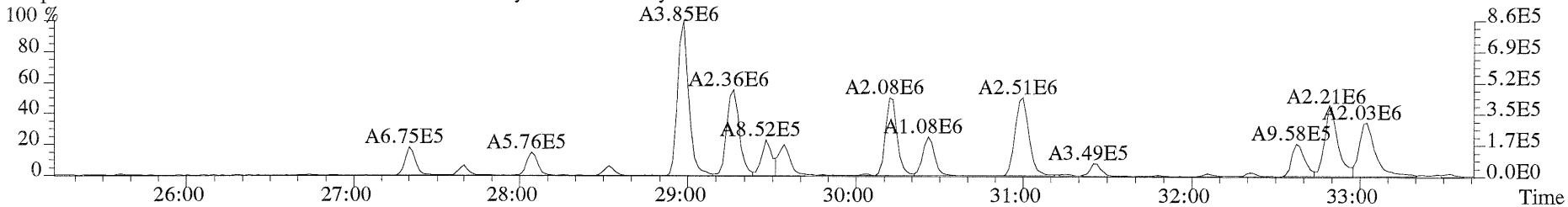
File:21SEP16Z #1-403 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



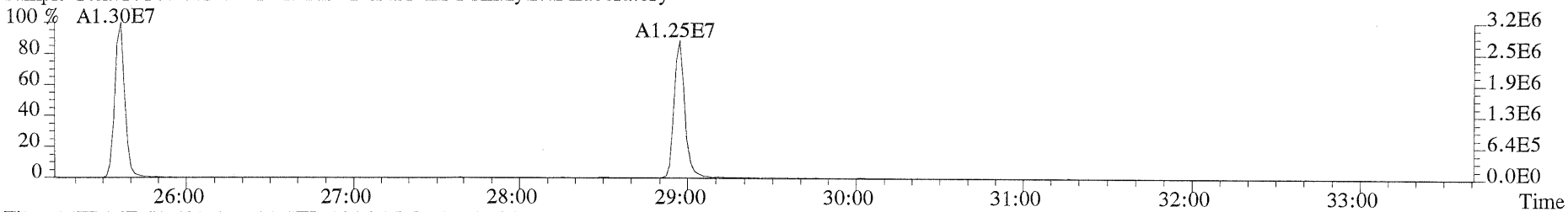
File:21SEP16Z #1-403 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



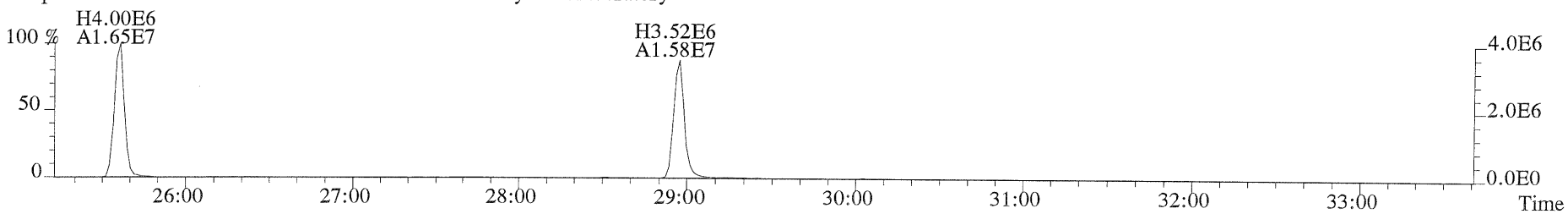
File:21SEP16Z #1-403 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



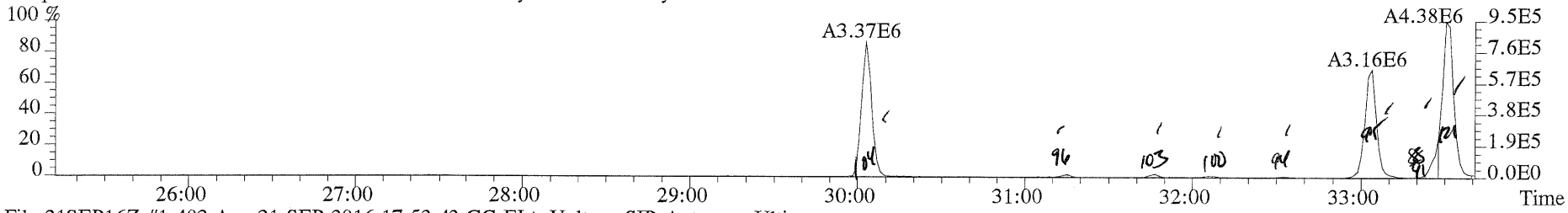
File:21SEP16Z #1-403 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



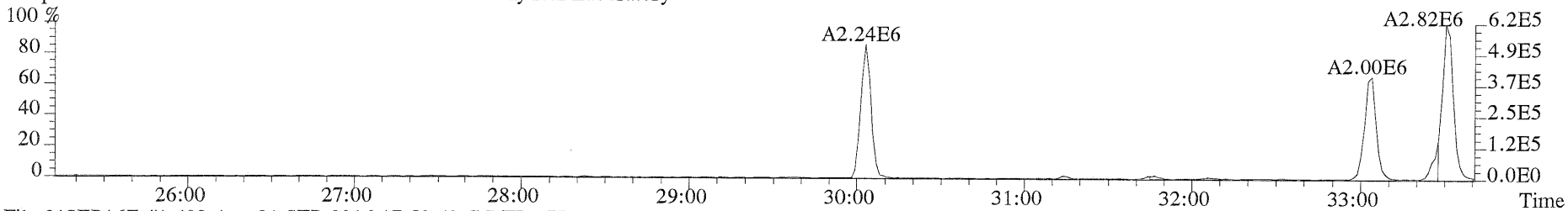
File:21SEP16Z #1-403 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



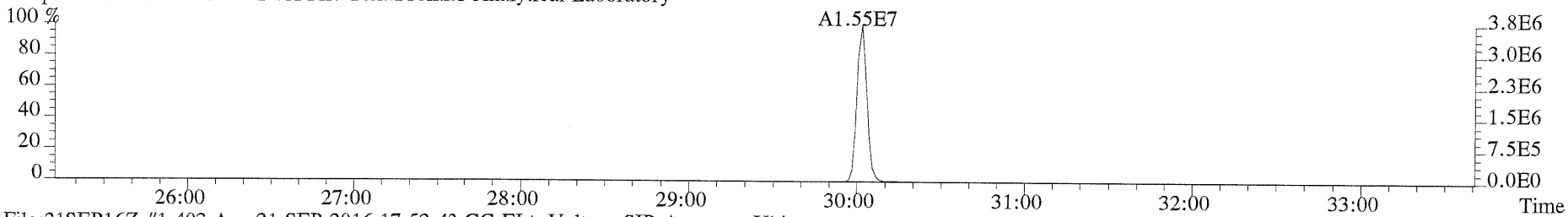
File:21SEP16Z #1-403 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



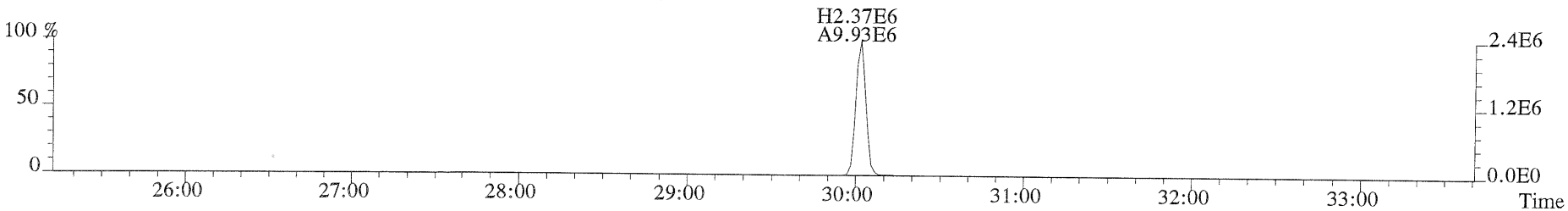
File:21SEP16Z #1-403 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



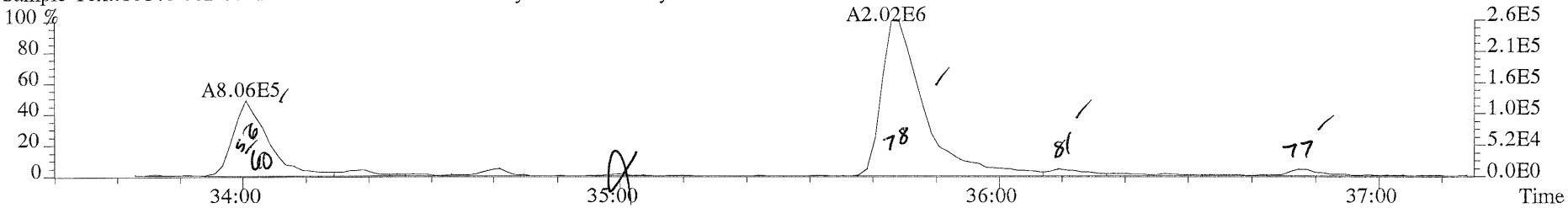
File:21SEP16Z #1-403 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



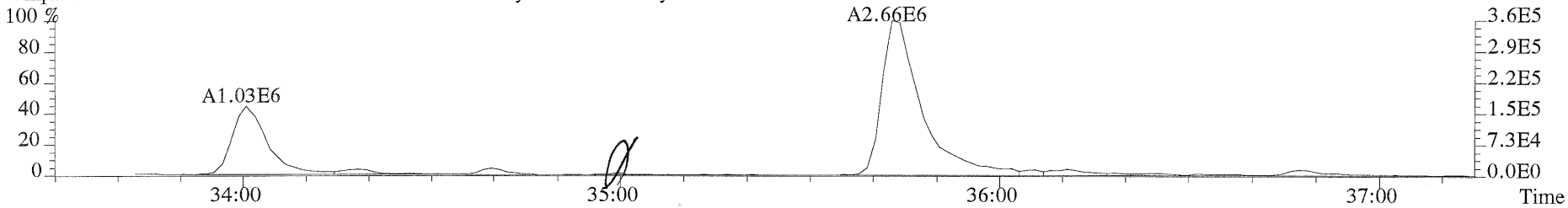
File:21SEP16Z #1-403 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



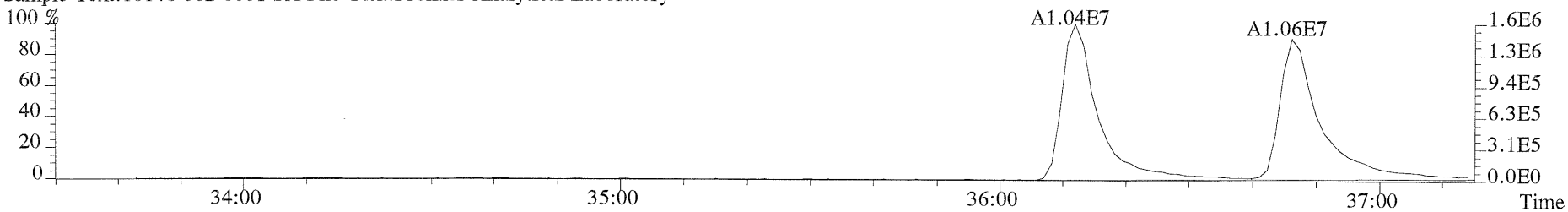
File:21SEP16Z #1-179 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



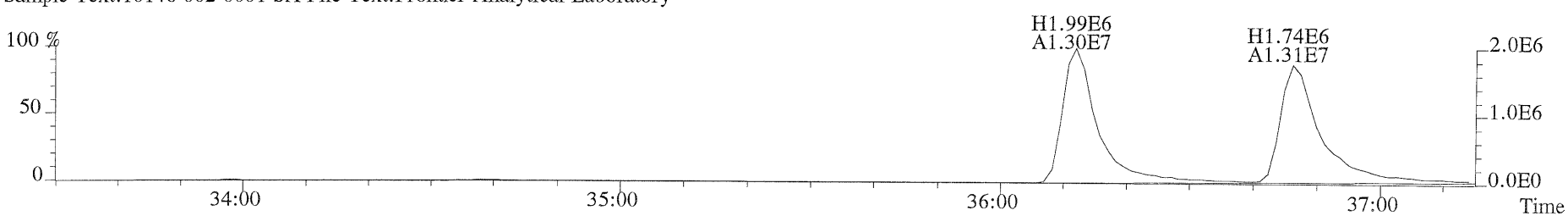
File:21SEP16Z #1-179 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



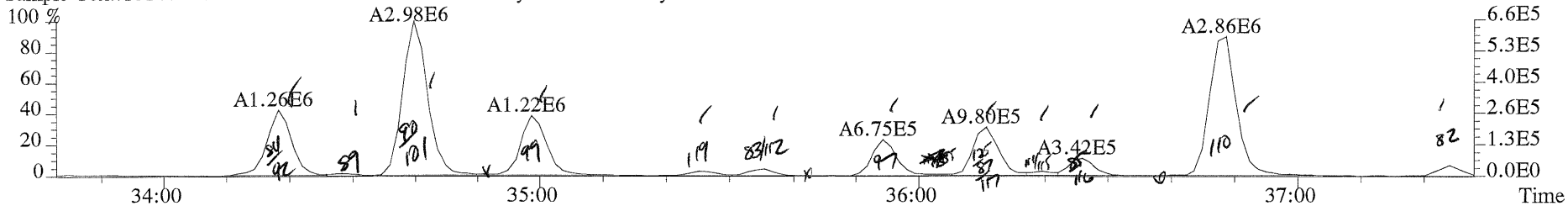
File:21SEP16Z #1-179 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



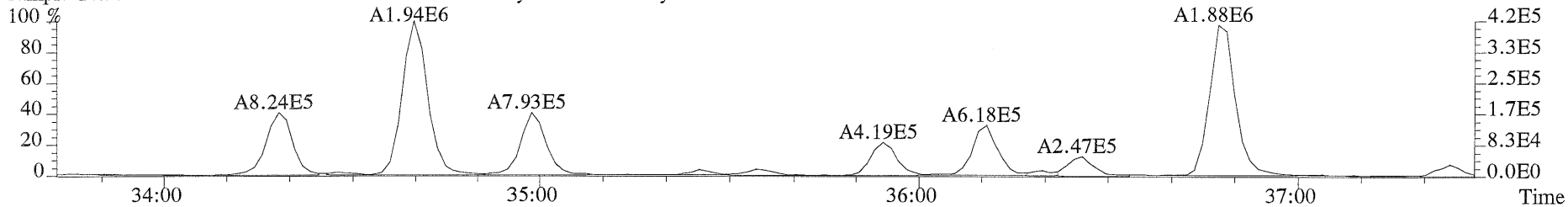
File:21SEP16Z #1-179 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



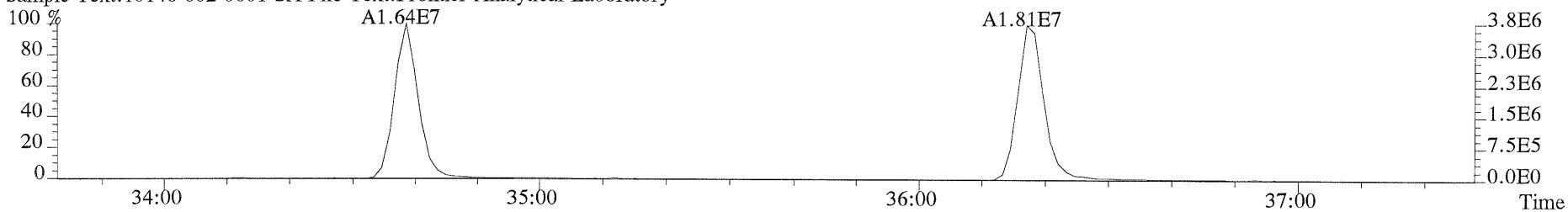
File:21SEP16Z #1-179 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



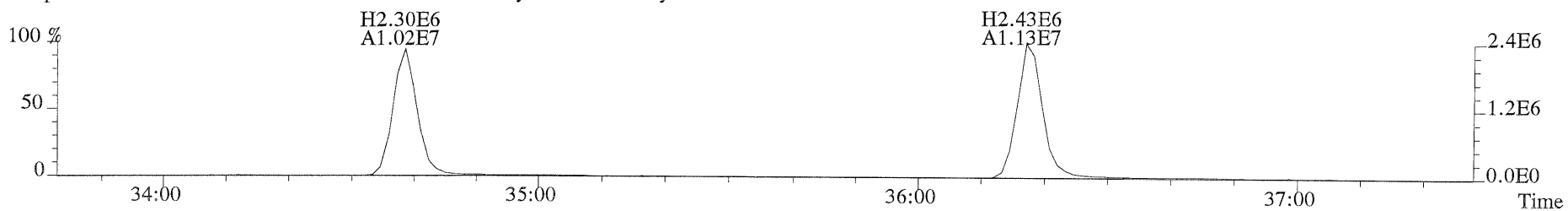
File:21SEP16Z #1-179 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



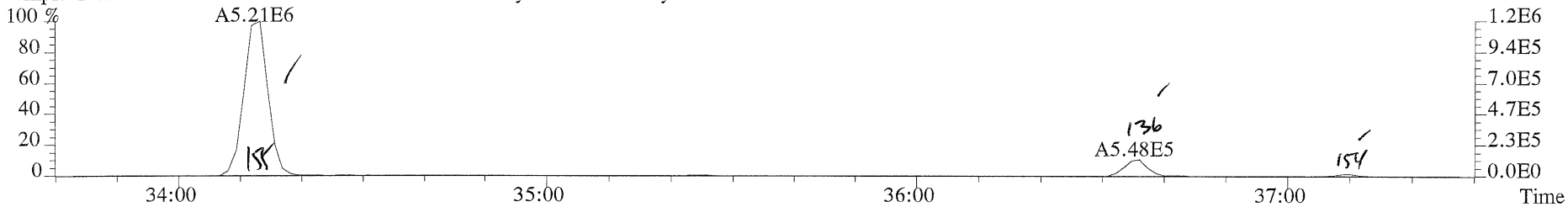
File:21SEP16Z #1-179 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



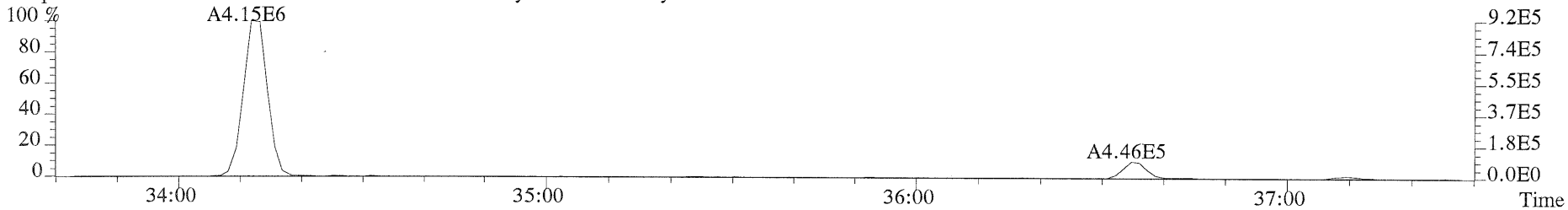
File:21SEP16Z #1-179 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



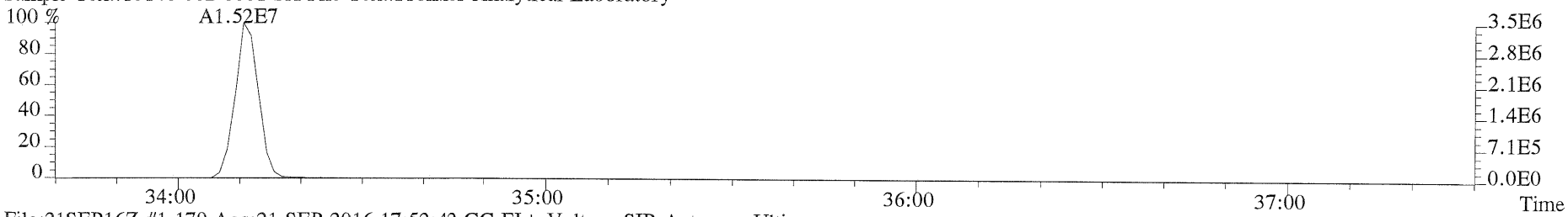
File:21SEP16Z #1-179 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



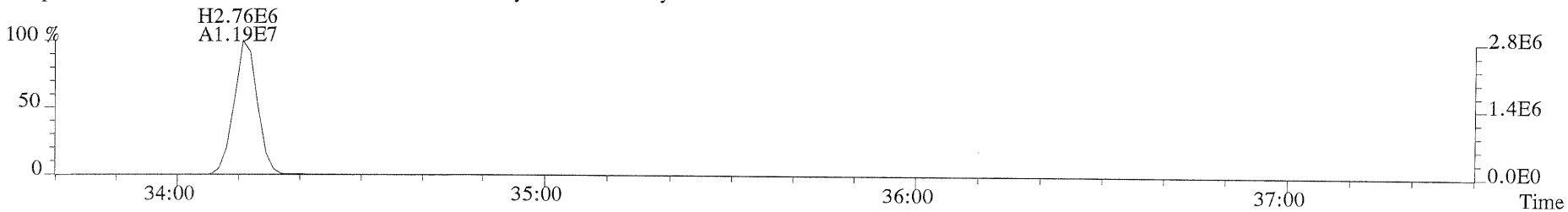
File:21SEP16Z #1-179 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



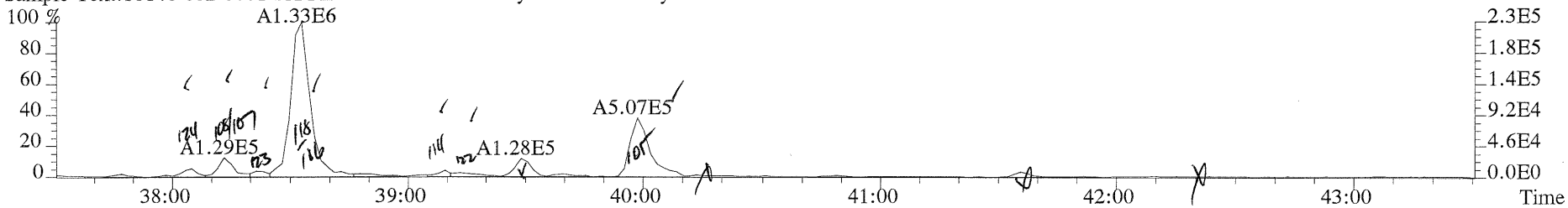
File:21SEP16Z #1-179 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



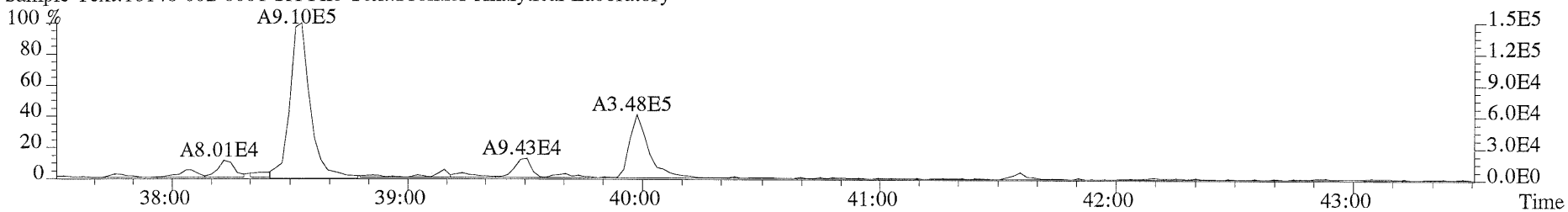
File:21SEP16Z #1-179 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-411 Acq:21-SEP-2016 17:52:42 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:10146-002-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-411 Acq:21-SEP-2016 17:52:42 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:10146-002-0001-SA File Text:Frontier Analytical Laboratory



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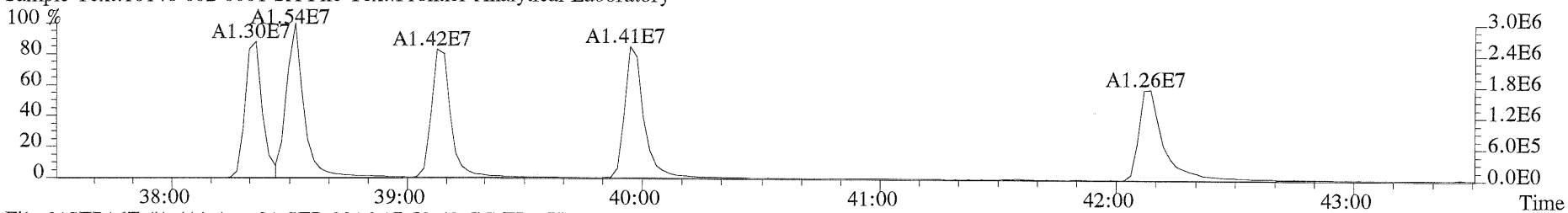
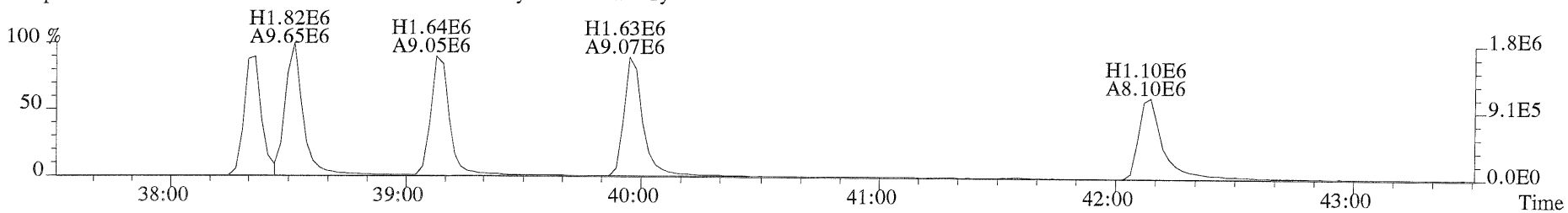
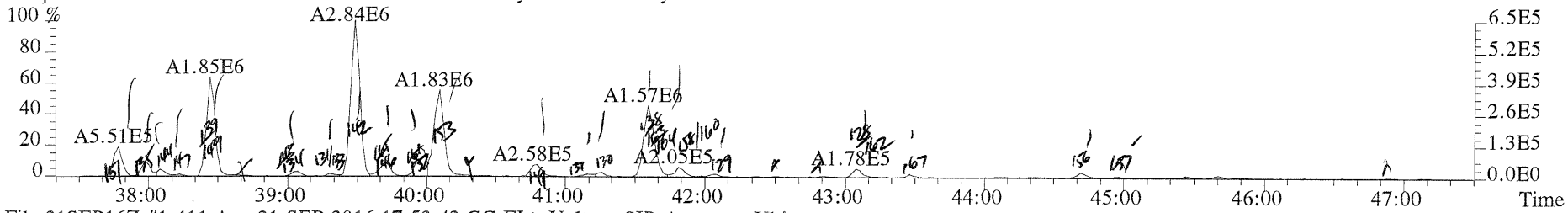
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



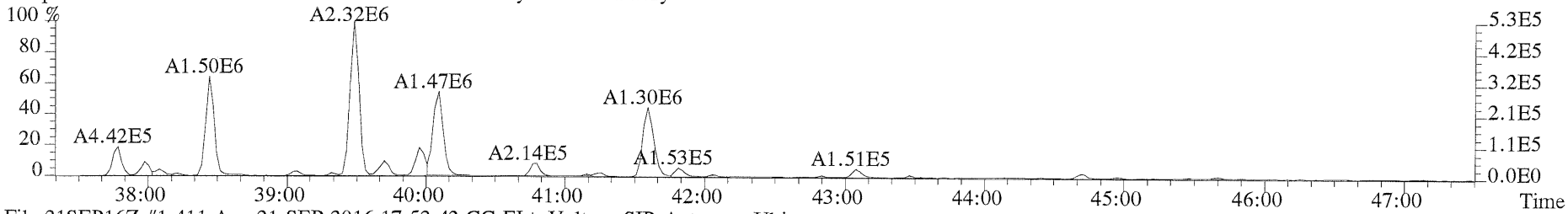
File:21SEP16Z #1-411 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



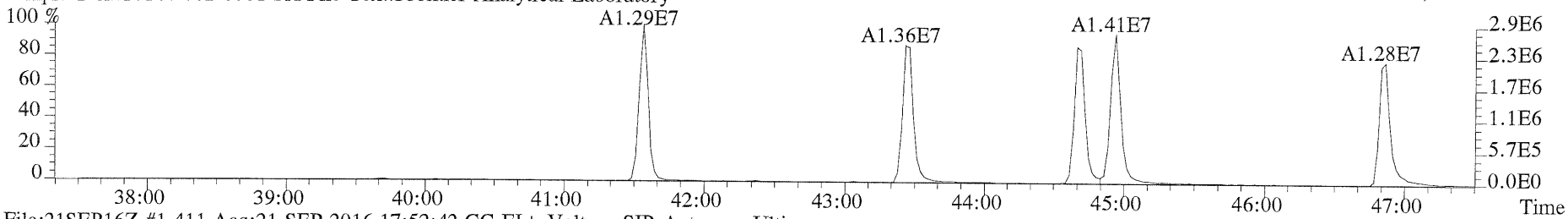
File:21SEP16Z #1-411 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



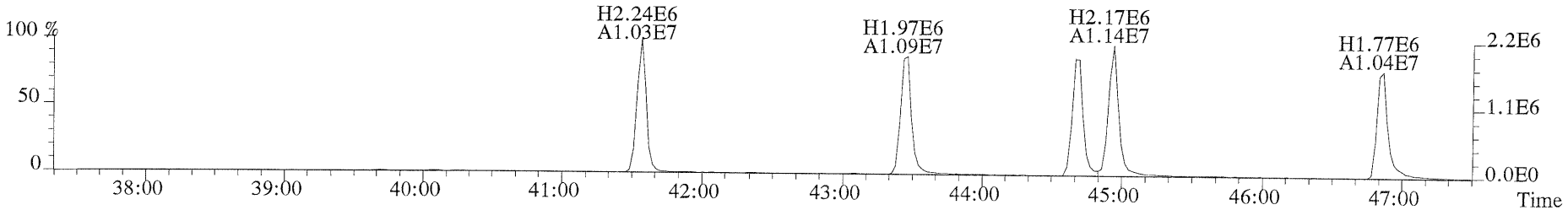
File:21SEP16Z #1-411 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



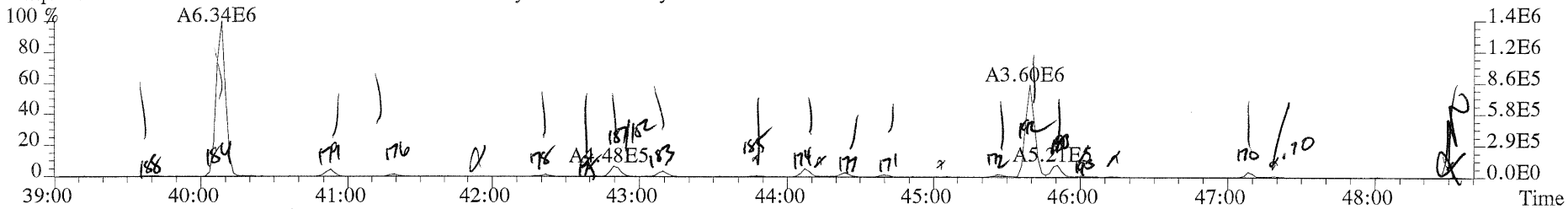
File:21SEP16Z #1-411 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



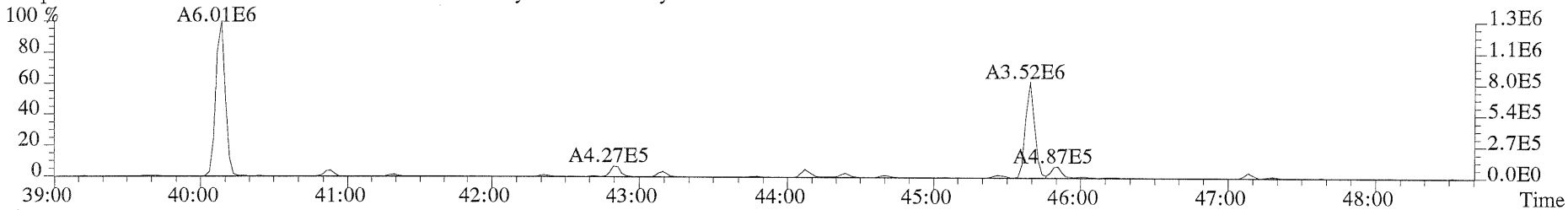
File:21SEP16Z #1-411 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-411 Acq:21-SEP-2016 17:52:42 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:10146-002-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-411 Acq:21-SEP-2016 17:52:42 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:10146-002-0001-SA File Text:Frontier Analytical Laboratory



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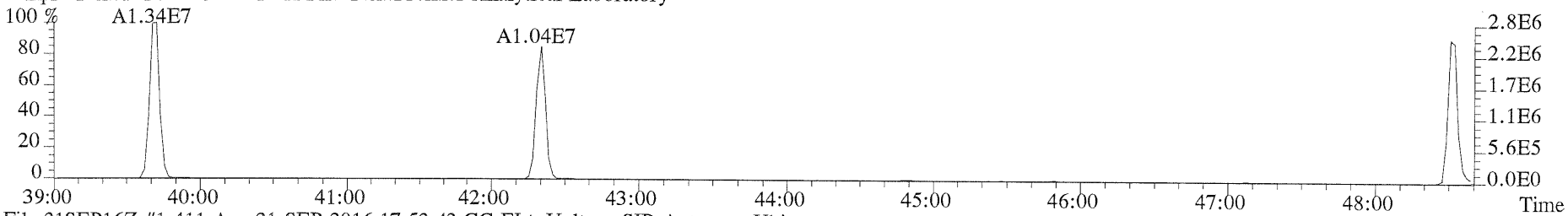
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



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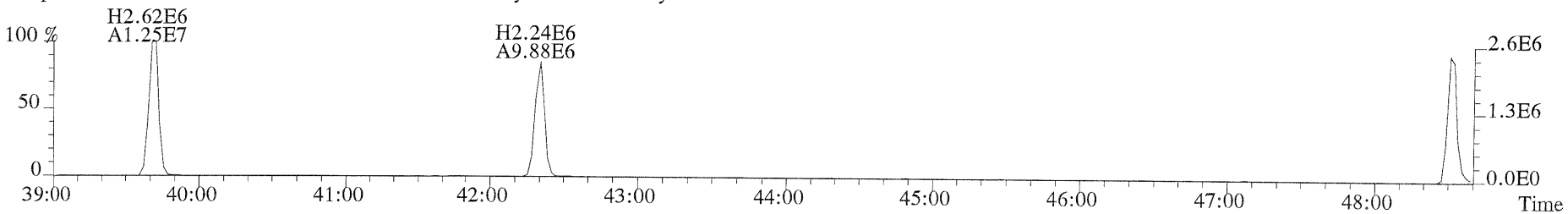
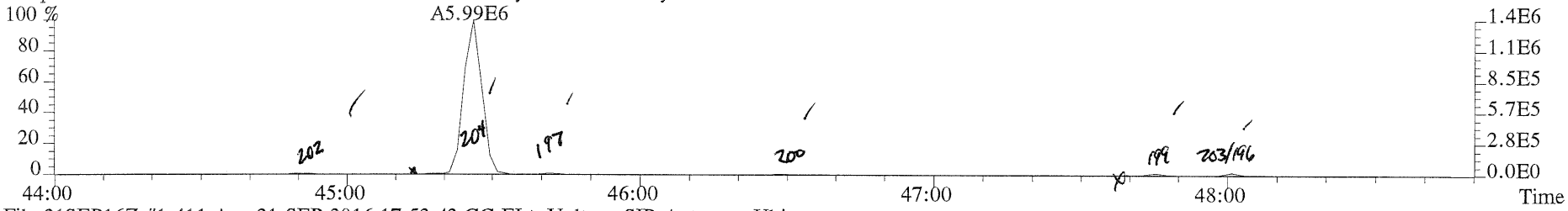
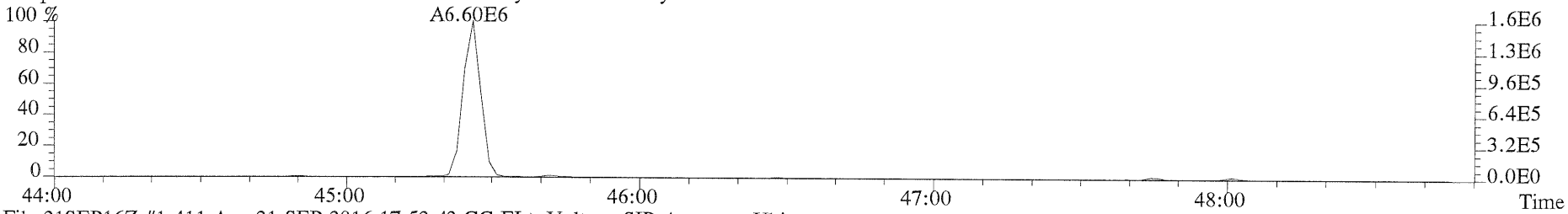
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



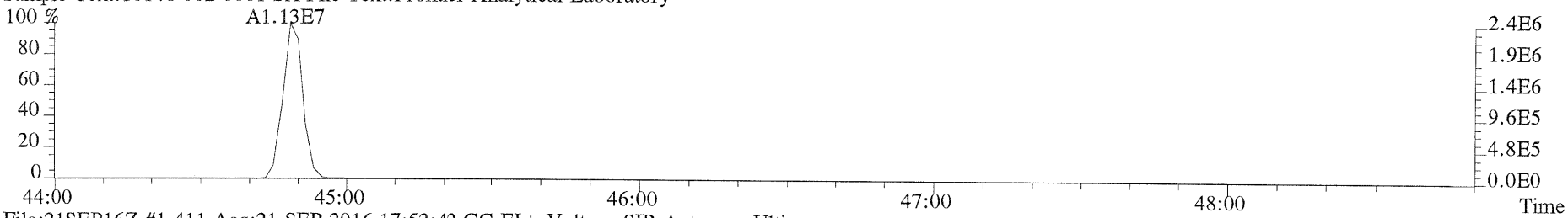
File:21SEP16Z #1-411 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-411 Acq:21-SEP-2016 17:52:42 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:10146-002-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-411 Acq:21-SEP-2016 17:52:42 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:10146-002-0001-SA File Text:Frontier Analytical Laboratory



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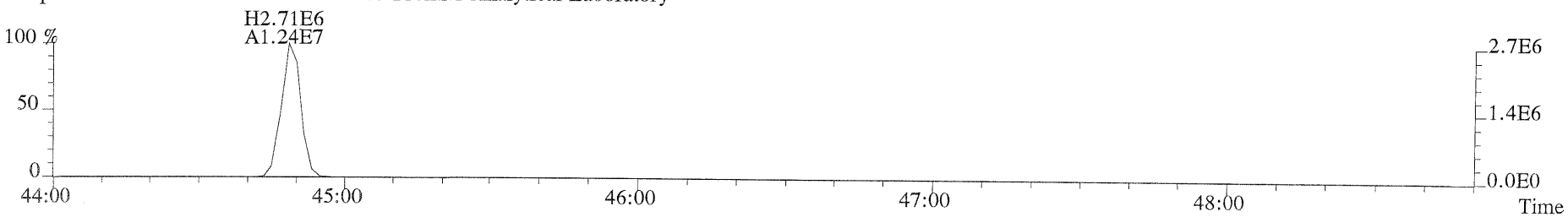
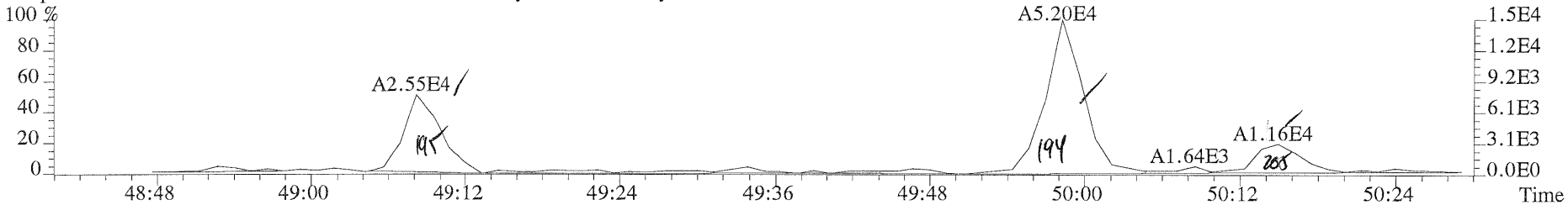
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-221 Acq:21-SEP-2016 17:52:42 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:10146-002-0001-SA File Text:Frontier Analytical Laboratory



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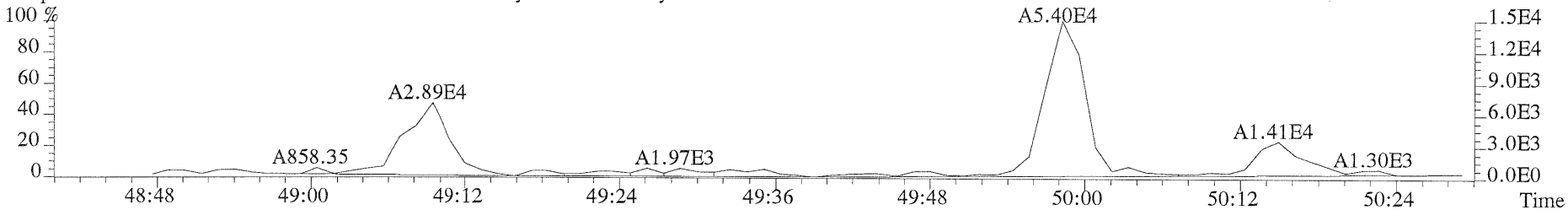
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-221 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
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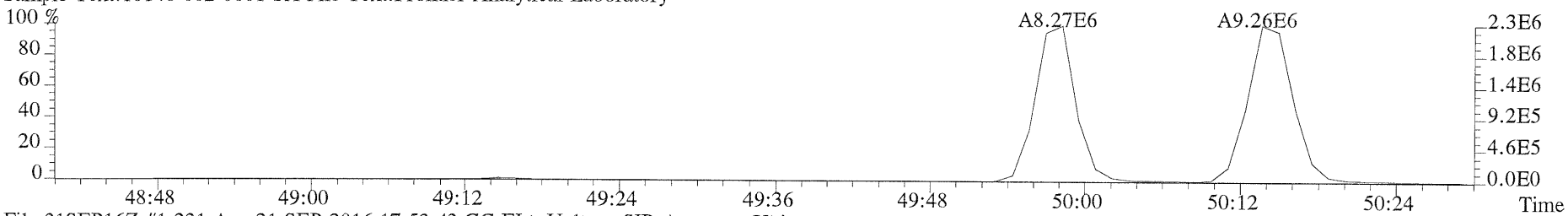
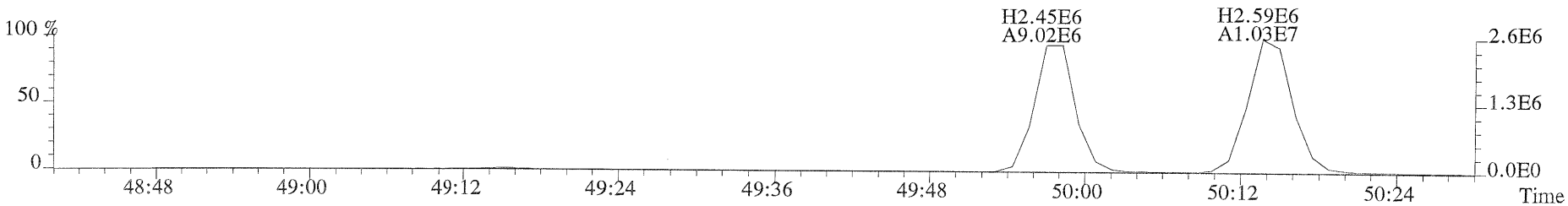
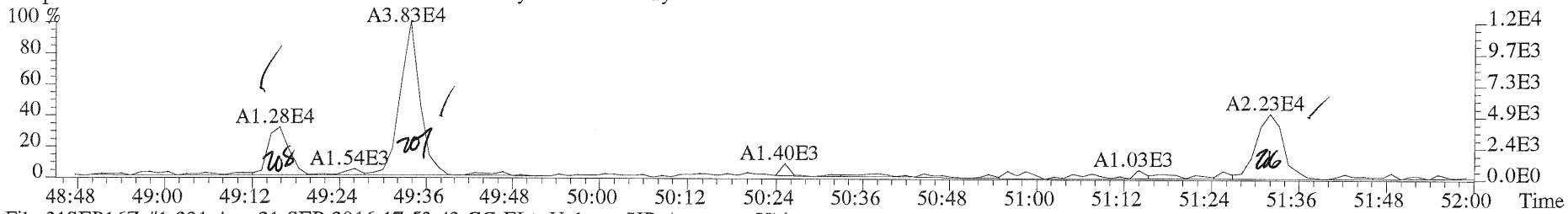
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



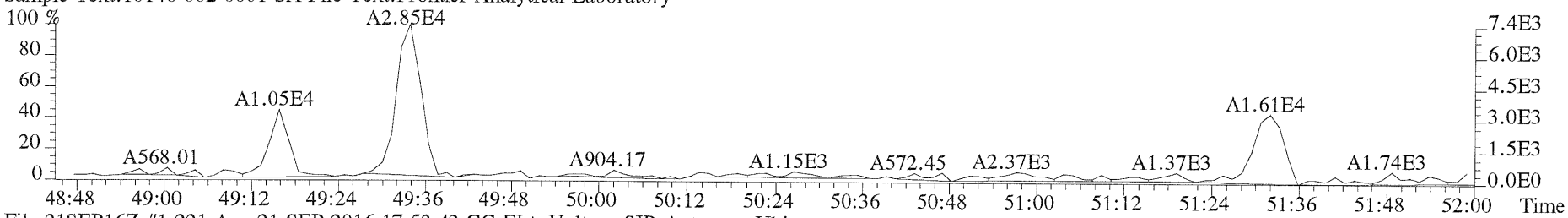
File:21SEP16Z #1-221 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



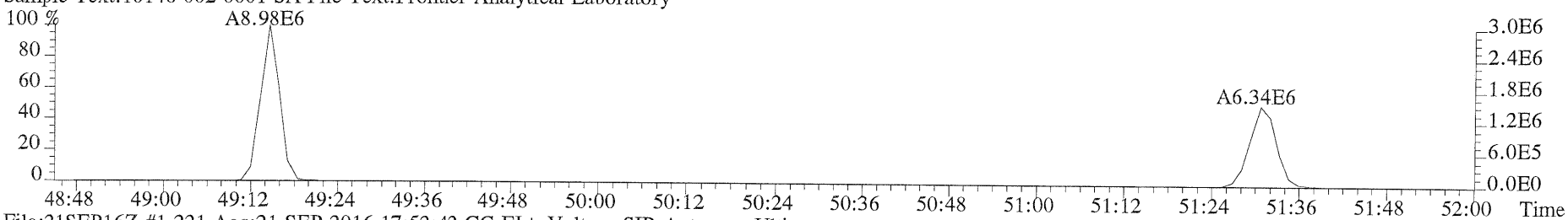
File:21SEP16Z #1-221 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



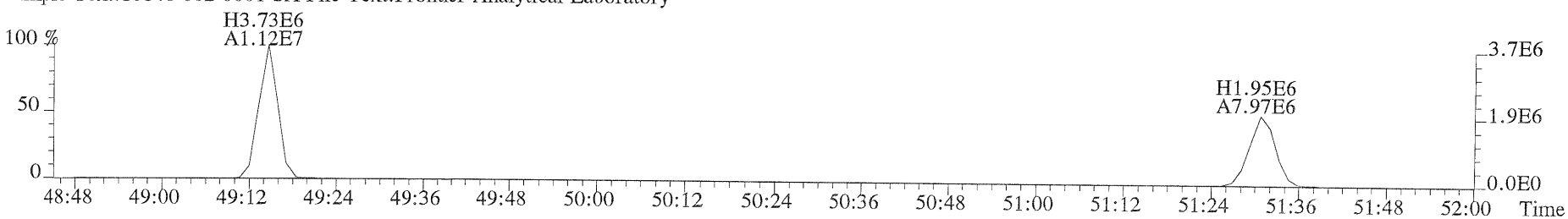
File:21SEP16Z #1-221 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



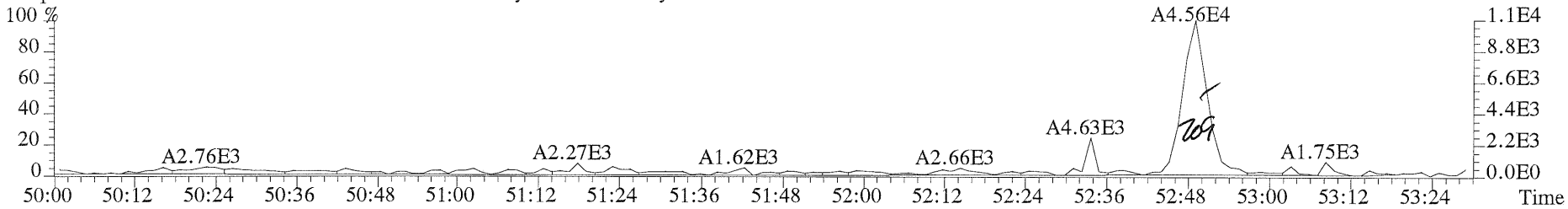
File:21SEP16Z #1-221 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



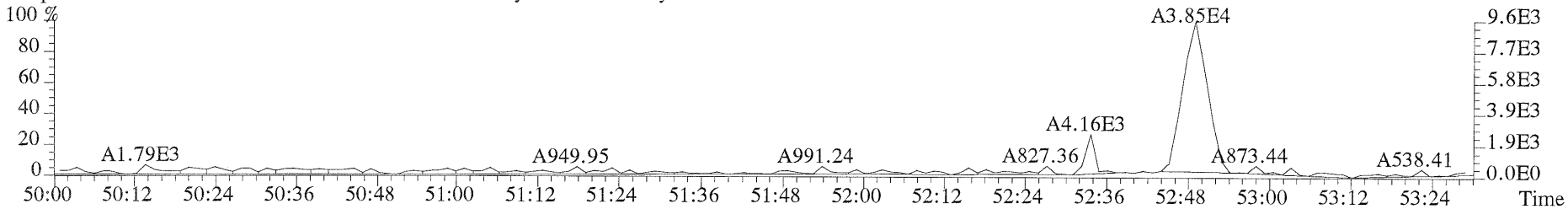
File:21SEP16Z #1-221 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



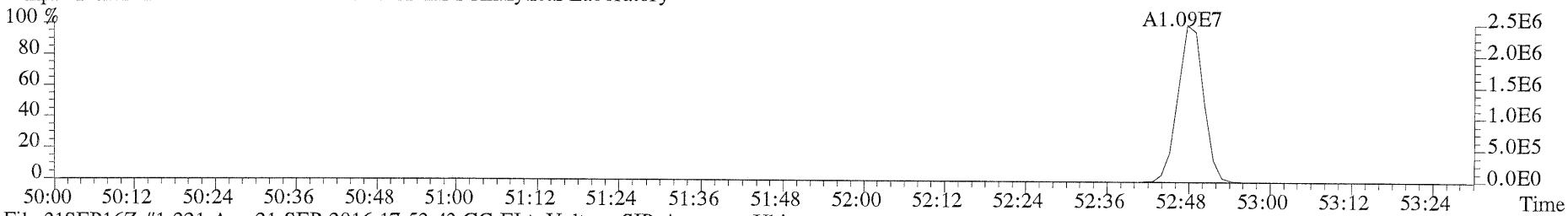
File:21SEP16Z #1-221 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



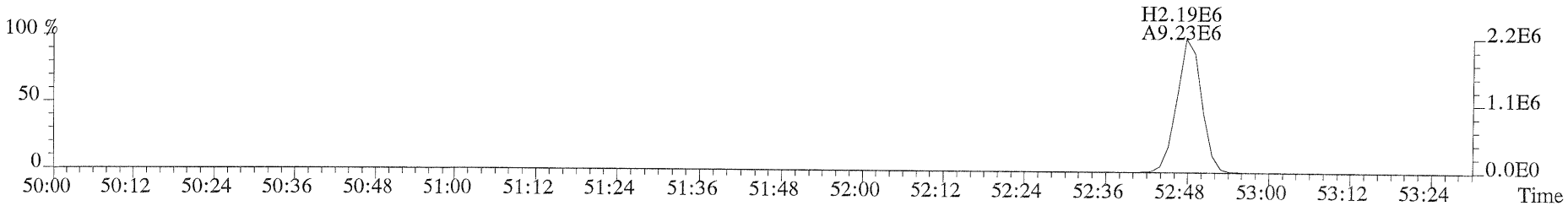
File:21SEP16Z #1-221 Acq:21-SEP-2016 17:52:42 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-002-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-221 Acq:21-SEP-2016 17:52:42 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:10146-002-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-221 Acq:21-SEP-2016 17:52:42 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:10146-002-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10146-003-0001-SA Filename: 19SEP16Z Sam:7 Acquired: 19-SEP-16 20:09:44 ICal: DAILY209FAL4-9-19-16
Client ID: LDW-BA-SC-ENR+AC-CC-S010 ConCal: ST091916Z1 EndCal: ST091916Z2
Results: 10146 GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	
PCB-1	9.99e+04	3.18 y	14:28	1.12	22.0		-	-	*		
13C-PCB-1	4.07e+07	3.11 y	14:27	0.94	8780					87.8	
PCB-2	*	* n	NotFnd	0.91	*		1260	1200	8.44		
PCB-3	*	* n	NotFnd	1.28	*		1260	1200	7.59		
13C-PCB-3	3.67e+07	3.26 y	16:56	0.80	9260					92.6	
PCB-4	2.58e+05	1.43 y	18:11	1.14	82.2		-	-	*		
PCB-10	2.58e+05	1.43 y	18:11	1.32	59.9		-	-	*		
13C-PCB-4	2.76e+07	1.62 y	18:07	0.63	8900					89.0	
PCB-9	2.75e+05	1.39 y	19:52	1.35	62.6		-	-	*		
PCB-7	2.23e+05	1.49 y	19:54	1.51	45.5		-	-	*		
PCB-6	1.16e+06	1.40 y	20:29	1.47	242		-	-	*		
PCB-8	3.89e+06	1.50 y	20:51	1.28	931		-	-	*		
PCB-5	1.12e+06	1.58 y	20:56	1.55	223		-	-	*		
PCB-14	1.36e+06	1.34 y	21:57	1.38	303		-	-	*		
PCB-11	7.98e+04	1.42 y	23:07	1.14	21.5		-	-	*		
PCB-13	*	* n	NotFnd	1.15	*		1260	1040	9.01		
PCB-12	4.29e+05	1.41 y	23:34	1.29	102		-	-	*		
PCB-15	5.59e+05	1.47 y	23:45	1.33	112		-	-	*		
13C-PCB-15	3.75e+07	1.52 y	23:44	0.88	8640					86.4	
PCB-19	1.05e+06	1.10 y	22:02	1.22	410		-	-	*		
PCB-30	*	* n	NotFnd	1.71	*		772	424	3.61		
PCB-18	8.79e+06	1.05 y	23:34	1.12	3730		-	-	*		
PCB-17	4.39e+06	1.07 y	23:45	1.29	1610		-	-	*		
PCB-27	8.07e+05	1.04 y	24:17	1.63	235		-	-	*		
PCB-24	3.19e+05	1.07 y	24:18	1.69	89.8		-	-	*		
PCB-16	2.95e+06	1.02 y	24:46	1.28	1100		-	-	*		
PCB-32	3.36e+06	1.07 y	24:47	1.55	1030		-	-	*		
13C-PCB-19	2.10e+07	1.08 y	22:00	0.47	9000					90.0	
13C-PCB-9	4.94e+07	1.61 y	19:48	-	50.4						
PCB-34	7.72e+04	1.07 y	25:33	0.98	24.5		-	-	*		
PCB-23	*	* n	NotFnd	1.44	*		954	860	8.89		
PCB-29	9.83e+04	0.89 y	25:53	1.25	24.4		-	-	*		
PCB-26	1.90e+06	1.04 y	26:05	1.21	487		-	-	*		
PCB-25	1.17e+06	1.04 y	26:15	1.53	239		-	-	*		
PCB-31	6.89e+06	1.02 y	26:34	1.11	1930		-	-	*		
PCB-28	1.22e+07	1.02 y	26:40	1.60	2370		-	-	*		
PCB-20	6.66e+06	1.03 y	27:17	1.32	1570		-	-	*		Co-elute PCB 21/33
PCB-21	6.66e+06	1.03 y	27:17	1.32	1570		-	-	*		Co-elute PCB 20/33
PCB-33	6.66e+06	1.03 y	27:17	1.32	1570		-	-	*		Co-elute PCB 20/21
PCB-22	3.42e+06	1.06 y	27:41	1.34	795		-	-	*		
PCB-36	5.03e+06	1.03 y	28:19	1.11	1410		-	-	*		
PCB-39	*	* n	NotFnd	1.09	*		954	860	11.8		
PCB-38	*	* n	NotFnd	1.24	*		954	860	10.4		
PCB-35	*	* n	NotFnd	0.96	*		954	860	13.3		
PCB-37	8.95e+05	1.02 y	30:24	1.29	216		-	-	*		
13C-PCB-37	3.22e+07	1.10 y	30:24	1.43	8740					87.4	

PCB-54	4.54e+04	0.73	y	25:33	1.17	13.8	J	-	-	*	
PCB-50	5.10e+04	0.79	y	26:39	0.86	21.2		-	-	*	
PCB-53	1.55e+06	0.78	y	27:17	0.83	667		-	-	*	
PCB-51	4.88e+05	0.81	y	27:36	0.86	201		-	-	*	
PCB-45	1.39e+06	0.79	y	28:01	0.74	672		-	-	*	
PCB-46	5.30e+05	0.76	y	28:27	0.69	275		-	-	*	
PCB-52	7.28e+06	0.77	y	28:54	1.02	2530		-	-	*	Co-elute PCB 69
PCB-69	7.28e+06	0.77	y	28:54	1.02	2530		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.05	*		1940	1330	11.2	
PCB-43	4.67e+06	0.78	y	29:12	0.79	2100		-	-	*	Co-elute PCB 49
PCB-49	4.67e+06	0.78	y	29:12	0.79	2100		-	-	*	Co-elute PCB 43
PCB-47	1.58e+06	0.79	y	29:23	0.96	582		-	-	*	
PCB-48	1.72e+06	0.77	y	29:29	1.05	585		-	-	*	Co-elute PCB 75
PCB-75	1.72e+06	0.77	y	29:29	1.05	585		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.04	*		1940	1330	11.3	
PCB-62	*	*	n	NotFnd	1.01	*		1940	1330	11.6	
PCB-44	4.30e+06	0.78	y	30:09	0.73	2100		-	-	*	
PCB-42	2.21e+06	0.76	y	30:21	0.99	797		-	-	*	Co-elute PCB 59
PCB-59	2.21e+06	0.76	y	30:21	0.99	797		-	-	*	Co-elute PCB 42
PCB-72	5.37e+06	0.77	y	30:55	1.06	1810		-	-	*	Co-elute PCB 41/71/64
PCB-41	5.37e+06	0.77	y	30:55	1.06	1810		-	-	*	Co-elute PCB 72/71/64
PCB-71	5.37e+06	0.77	y	30:55	1.06	1810		-	-	*	Co-elute PCB 72/41/64
PCB-64	5.37e+06	0.77	y	30:55	1.06	1810		-	-	*	Co-elute PCB 72/41/71
PCB-68	8.42e+04	0.81	y	31:11	1.12	26.7		-	-	*	
PCB-40	7.60e+05	0.78	y	31:22	0.64	425		-	-	*	
PCB-57	*	*	n	NotFnd	1.06	*		1940	1330	11.1	
PCB-67	1.92e+05	0.87	y	32:01	1.06	64.5		-	-	*	
PCB-58	*	*	n	NotFnd	1.03	*		1940	1330	11.4	
PCB-63	1.90e+05	0.80	y	32:16	1.07	63.2		-	-	*	
PCB-74	2.02e+06	0.78	y	32:34	1.11	648		-	-	*	
PCB-61	4.40e+06	0.79	y	32:45	1.08	1440		-	-	*	Co-elute PCB 70
PCB-70	4.40e+06	0.79	y	32:45	1.08	1440		-	-	*	Co-elute PCB 61
PCB-76	4.35e+06	0.78	y	32:58	1.14	1360		-	-	*	Co-elute PCB 66
PCB-66	4.35e+06	0.78	y	32:58	1.14	1360		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.22	*		1940	1330	9.63	
PCB-55	2.14e+05	0.86	y	33:27	1.10	69.3		-	-	*	
13C-PCB-54	2.81e+07	0.81	y	25:32	1.20	9100					91.0
PCB-104	4.20e+06	1.57	y	29:58	1.25	2190		-	-	*	
PCB-96	5.67e+04	1.44	y	31:11	1.14	32.5		-	-	*	
PCB-103	7.10e+04	1.37	y	31:41	0.94	49.3		-	-	*	
PCB-100	4.21e+04	1.66	y	32:02	0.91	30.1		-	-	*	
PCB-94	1.94e+04	1.73	y	32:28	0.76	16.7	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.97	*		376	396	5.53	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.97	*		376	396	5.53	Co-elute PCB 98
PCB-95	2.78e+06	1.54	y	32:59	0.80	2250		-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*		376	396	6.92	
PCB-88	*	*	n	NotFnd	0.81	*		376	396	6.68	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.81	*		376	396	6.68	Co-elute PCB 88
PCB-121	5.59e+06	1.57	y	33:27	1.15	3170		-	-	*	
13C-PCB-104	1.54e+07	1.62	y	29:57	0.66	9120					91.2
13C-PCB-28	4.24e+07	1.06	y	26:39	1.63	10100					101
13C-PCB-52	2.57e+07	0.80	y	28:53	-	48.2					

PCB-56	2.94e+06	0.79	y	33:57	1.24	795		-	-	*	Co-elute PCB 60
PCB-60	2.94e+06	0.79	y	33:57	1.24	795		-	-	*	Co-elute PCB 56
PCB-79	7.10e+04	0.82	y	34:55	1.23	19.4	J	-	-	*	
PCB-78	6.98e+06	0.79	y	35:39	1.13	2070		-	-	*	
PCB-81	2.49e+05	0.86	y	36:07	1.23	67.9		-	-	*	
13C-PCB-81	2.98e+07	0.80	y	36:07	1.35	9730					97.3
PCB-77	2.09e+05	0.86	y	36:44	1.14	60.9		-	-	*	
13C-PCB-77	3.00e+07	0.81	y	36:43	1.37	9580					95.8
PCB-155	6.64e+06	1.27	y	34:08	1.18	3330		-	-	*	
PCB-150	*	*	n	NotFnd	1.01	*		416	488	5.48	
PCB-152	*	*	n	NotFnd	1.00	*		416	488	5.58	
PCB-145	*	*	n	NotFnd	1.00	*		416	488	5.54	
PCB-136	5.00e+05	1.22	y	36:31	0.94	315		-	-	*	
PCB-148	*	*	n	NotFnd	0.78	*		416	488	7.10	
PCB-154	7.85e+04	1.22	y	37:05	0.85	54.8		-	-	*	
13C-PCB-155	1.69e+07	1.27	y	34:07	0.84	8880					88.8
13C-PCB-111	2.57e+07	1.61	y	36:14	1.16	9700					97.0
13C-PCB-101	2.28e+07	1.62	y	34:34	-	50.1					
PCB-84	1.73e+06	1.51	y	34:14	0.68	889		-	-	*	Co-elute PCB 92
PCB-92	1.73e+06	1.51	y	34:14	0.68	889		-	-	*	Co-elute PCB 84
PCB-89	6.95e+04	1.32	y	34:25	0.67	36.3		-	-	*	
PCB-90	3.97e+06	1.52	y	34:35	0.76	1820		-	-	*	Co-elute PCB 101
PCB-101	3.97e+06	1.52	y	34:35	0.76	1820		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.85	*		1070	950	10.6	
PCB-99	1.70e+06	1.53	y	34:55	0.85	705		-	-	*	
PCB-119	1.35e+05	1.50	y	35:21	0.96	49.3		-	-	*	
PCB-83	1.78e+05	1.65	y	35:31	0.78	79.8		-	-	*	Co-elute PCB 112
PCB-112	1.78e+05	1.65	y	35:31	0.78	79.8		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.92	*		1070	950	9.82	
PCB-97	9.28e+05	1.54	y	35:51	0.82	398		-	-	*	
PCB-86	*	*	n	NotFnd	0.66	*		1070	950	13.7	
PCB-125	1.35e+06	1.55	y	36:06	0.85	555		-	-	*	Co-elute PCB 87/117
PCB-87	1.35e+06	1.55	y	36:06	0.85	555		-	-	*	Co-elute PCB 125/117
PCB-117	1.35e+06	1.55	y	36:06	0.85	555		-	-	*	Co-elute PCB 125/87
PCB-111	7.26e+04	1.52	y	36:15	1.13	22.4		-	-	*	Co-elute PCB 115
PCB-115	7.26e+04	1.52	y	36:15	1.13	22.4		-	-	*	Co-elute PCB 111
PCB-85	5.80e+05	1.62	y	36:21	0.79	258		-	-	*	Co-elute PCB 116
PCB-116	5.80e+05	1.62	y	36:21	0.79	258		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.93	*		1070	950	9.74	
PCB-110	4.22e+06	1.52	y	36:44	1.07	1380		-	-	*	
PCB-82	2.74e+05	1.52	y	37:19	0.55	174		-	-	*	
PCB-124	1.33e+05	1.68	y	38:00	1.03	45.3		-	-	*	
PCB-108	2.04e+05	1.69	y	38:10	1.17	61.1		-	-	*	Co-elute PCB 107
PCB-107	2.04e+05	1.69	y	38:10	1.17	61.1		-	-	*	Co-elute PCB 108
PCB-123	5.57e+04	1.40	y	38:17	1.34	16.1	J	-	-	*	
13C-PCB-123	2.58e+07	1.58	y	38:17	1.34	8780					87.8
PCB-118	2.73e+06	1.52	y	38:28	1.08	810		-	-	*	Co-elute PCB 106
PCB-106	2.73e+06	1.52	y	38:28	1.08	810		-	-	*	Co-elute PCB 118
13C-PCB-118	3.11e+07	1.63	y	38:27	1.45	9750					97.5
PCB-114	8.22e+04	1.63	y	39:05	1.10	25.8		-	-	*	
13C-PCB-114	2.90e+07	1.59	y	39:05	1.36	9670					96.7
PCB-122	4.48e+04	1.57	y	39:13	1.25	12.5	J	-	-	*	
PCB-105	1.00e+06	1.51	y	39:56	1.16	307		-	-	*	
13C-PCB-105	2.83e+07	1.63	y	39:54	1.38	9310					93.1

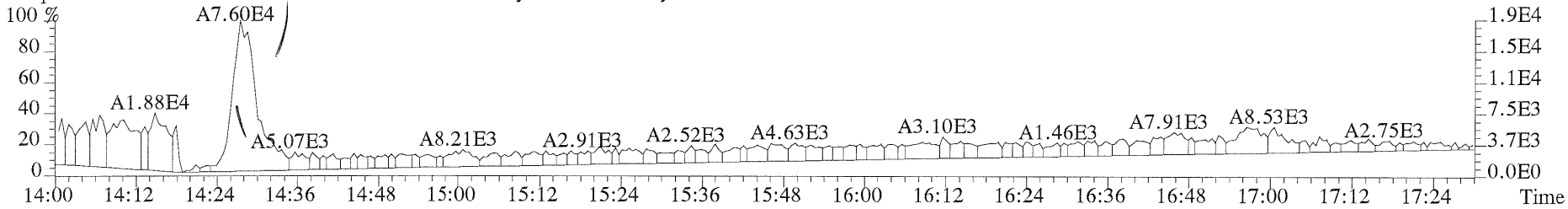
PCB-127	*	*	n	NotFnd	1.07	*		600	828	5.97		
PCB-126	*	*	n	NotFnd	1.17	*		600	828	7.59		
13C-PCB-126	2.69e+07	1.61	y	42:04	1.27	9630					96.3	
PCB-151	8.37e+05	1.30	y	37:42	0.89	395		-	-	*		
PCB-135	4.24e+05	1.23	y	37:54	0.81	220		-	-	*		
PCB-144	1.71e+05	1.34	y	38:00	1.04	69.0		-	-	*		
PCB-147	5.95e+04	1.08	y	38:09	0.96	25.9		-	-	*		
PCB-139	2.83e+06	1.28	y	38:22	0.98	1210		-	-	*	Co-elute PCB 149	
PCB-149	2.83e+06	1.28	y	38:22	0.98	1210		-	-	*	Co-elute PCB 139	
PCB-140	*	*	n	NotFnd	0.96	*		548	552	6.13		
PCB-143	1.49e+05	1.28	y	39:00	0.89	70.2		-	-	*	Co-elute PCB 134	
PCB-134	1.49e+05	1.28	y	39:00	0.89	70.2		-	-	*	Co-elute PCB 143	
PCB-131	5.70e+04	1.24	y	39:15	0.91	26.2		-	-	*	Co-elute PCB 133	
PCB-133	5.70e+04	1.24	y	39:15	0.91	26.2		-	-	*	Co-elute PCB 131	
PCB-142	5.55e+06	1.25	y	39:24	0.79	2940		-	-	*		
PCB-165	4.65e+05	1.20	y	39:38	1.07	182		-	-	*	Co-elute PCB 146	
PCB-146	4.65e+05	1.20	y	39:38	1.07	182		-	-	*	Co-elute PCB 165	
PCB-161	7.83e+05	1.34	y	39:54	1.01	325		-	-	*	Co-elute PCB 132	
PCB-132	7.83e+05	1.34	y	39:54	1.01	325		-	-	*	Co-elute PCB 161	
PCB-153	2.98e+06	1.23	y	40:01	1.05	1200		-	-	*		
PCB-168	*	*	n	NotFnd	1.18	*		548	552	5.03		
PCB-141	4.11e+05	1.26	y	40:43	0.89	195		-	-	*		
PCB-137	7.38e+04	1.14	y	41:05	0.85	36.4		-	-	*		
PCB-130	1.16e+05	1.41	y	41:11	0.79	61.6		-	-	*		
PCB-138	2.59e+06	1.28	y	41:31	1.19	916		-	-	*	Co-elute PCB 163/164	
PCB-163	2.59e+06	1.28	y	41:31	1.19	916		-	-	*	Co-elute PCB 138/164	
PCB-164	2.59e+06	1.28	y	41:31	1.19	916		-	-	*	Co-elute PCB 138/163	
PCB-158	2.99e+05	1.15	y	41:46	1.18	107		-	-	*	Co-elute PCB 160	
PCB-160	2.99e+05	1.15	y	41:46	1.18	107		-	-	*	Co-elute PCB 158	
PCB-129	7.67e+04	1.36	y	41:59	0.73	44.0		-	-	*		
PCB-166	*	*	n	NotFnd	1.11	*		548	552	5.35		
PCB-159	4.22e+04	1.39	y	42:45	1.20	14.7	J	-	-	*		
PCB-128	2.79e+05	1.31	y	43:00	1.00	118		-	-	*	Co-elute PCB 162	
PCB-162	2.79e+05	1.31	y	43:00	1.00	118		-	-	*	Co-elute PCB 128	
PCB-167	8.35e+04	1.12	y	43:25	1.06	32.6		-	-	*		
13C-PCB-167	2.42e+07	1.29	y	43:23	1.15	9600					96.0	
PCB-156	1.64e+05	1.40	y	44:37	1.12	63.5		-	-	*		
13C-PCB-156	2.29e+07	1.26	y	44:37	1.10	9480					94.8	
PCB-157	3.63e+04	1.19	y	44:54	1.13	13.0	J	-	-	*		
13C-PCB-157	2.48e+07	1.28	y	44:52	1.13	10000					100	
PCB-169	*	*	n	NotFnd	1.07	*		548	552	5.78		
13C-PCB-169	2.34e+07	1.26	y	46:47	1.05	10100					101	

FAL ID: 10146-003-0001-SA Filename: 19SEP16Z Sam:7 Acquired: 19-SEP-16 20:09:44 ICal: DAILY209FAL4-9-19-16
Client ID: LDW-BA-SC-ENR+AC-CC-S010 ConCal: ST091916Z1 EndCal: ST091916Z2
Results: 10146 GC Column: DB1 Amount: 1.000

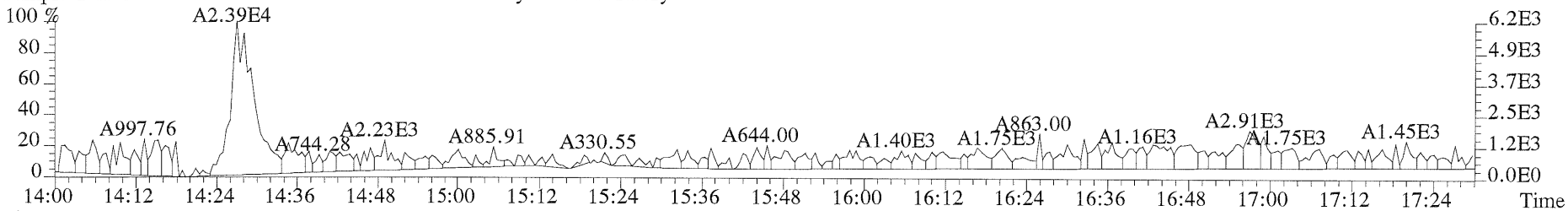
PCB-188	*	*	n	NotFnd	1.25	*		496	348	4.17	
13C-PCB-188	1.82e+07	1.06	y	39:38	0.94	8820					88.2
PCB-184	9.73e+06	1.06	y	40:04	1.39	4080		-	-	*	
PCB-179	3.23e+05	1.07	y	40:48	1.31	145		-	-	*	
PCB-176	1.01e+05	1.20	y	41:15	1.28	46.0		-	-	*	
PCB-186	*	*	n	NotFnd	1.28	*		496	348	4.14	
PCB-178	9.86e+04	1.06	y	42:17	0.89	65.2		-	-	*	
PCB-175	*	*	n	NotFnd	0.93	*		496	348	5.66	
PCB-187	5.66e+05	1.09	y	42:47	1.02	326		-	-	*	Co-elute PCB 182
PCB-182	5.66e+05	1.09	y	42:47	1.02	326		-	-	*	Co-elute PCB 187
PCB-183	2.68e+05	1.00	y	43:05	1.02	154		-	-	*	
PCB-185	4.91e+04	1.14	y	43:43	0.91	31.4		-	-	*	
PCB-174	3.79e+05	1.08	y	44:04	0.94	236		-	-	*	
PCB-181	*	*	n	NotFnd	0.87	*		496	348	6.05	
PCB-177	2.29e+05	1.18	y	44:21	0.80	167		-	-	*	
PCB-171	1.03e+05	1.05	y	44:37	0.89	68.0		-	-	*	
PCB-173	*	*	n	NotFnd	0.79	*		496	348	6.67	
PCB-172	1.74e+05	1.16	y	45:23	0.80	127		-	-	*	
PCB-192	5.72e+06	1.07	y	45:36	1.09	3080		-	-	*	
PCB-180	6.77e+05	0.95	y	45:46	1.06	372		-	-	*	
PCB-193	6.70e+04	0.94	y	45:56	1.16	33.7		-	-	*	
PCB-191	*	*	n	NotFnd	1.11	*		496	348	4.77	
PCB-170	2.17e+05	1.16	y	47:05	0.77	165		-	-	*	
PCB-190	7.26e+04	1.13	y	47:15	1.07	39.8		-	-	*	
PCB-189	*	*	n	NotFnd	1.23	*		496	348	4.40	
13C-PCB-189	1.60e+07	1.09	y	48:28	0.70	10400					104
PCB-202	2.20e+04	1.02	y	44:45	1.05	18.3	J	-	-	*	
PCB-201	*	*	n	NotFnd	1.05	*		300	364	5.89	
PCB-204	7.32e+06	0.90	y	45:22	1.05	6070		-	-	*	
PCB-197	6.09e+04	0.93	y	45:38	1.09	48.8		-	-	*	
PCB-200	2.21e+04	0.97	y	46:23	1.01	19.0	J	-	-	*	
PCB-198	*	*	n	NotFnd	0.70	*		300	364	8.84	
PCB-199	6.28e+04	0.87	y	47:43	0.70	78.4		-	-	*	
PCB-203	7.47e+04	0.91	y	47:58	0.78	83.6		-	-	*	Co-elute PCB 196
PCB-196	7.47e+04	0.91	y	47:58	0.78	83.6		-	-	*	Co-elute PCB 203
13C-PCB-202	1.15e+07	0.89	y	44:45	0.57	9220					92.2
13C-PCB-178	1.40e+07	1.11	y	42:16	0.60	10600					106
13C-PCB-138	2.20e+07	1.26	y	41:30	-	50.4					
PCB-195	4.10e+04	1.00	y	49:06	0.74	25.0		-	-	*	
PCB-194	8.42e+04	0.88	y	49:56	0.82	46.1		-	-	*	
PCB-205	*	*	n	NotFnd	1.07	*		640	624	5.13	
13C-PCB-205	2.23e+07	0.91	y	50:11	1.27	9230					92.3
PCB-208	*	*	n	NotFnd	1.03	*		472	488	3.95	
13C-PCB-208	1.89e+07	0.80	y	49:11	1.14	8730					87.3
PCB-207	4.94e+04	1.40	y	49:32	1.15	26.5		-	-	*	
PCB-206	1.70e+04	1.24	y	51:30	1.04	11.9	J	-	-	*	
13C-PCB-206	1.37e+07	0.82	y	51:29	0.75	9590					95.9
PCB-209	4.97e+04	1.06	y	52:46	1.16	26.8		-	-	*	
13C-PCB-209	1.60e+07	1.21	y	52:46	0.93	9120					91.2
13C-PCB-194	1.90e+07	0.92	y	49:55	-	51.0					

Analyst: _____ Date: 9/20/16

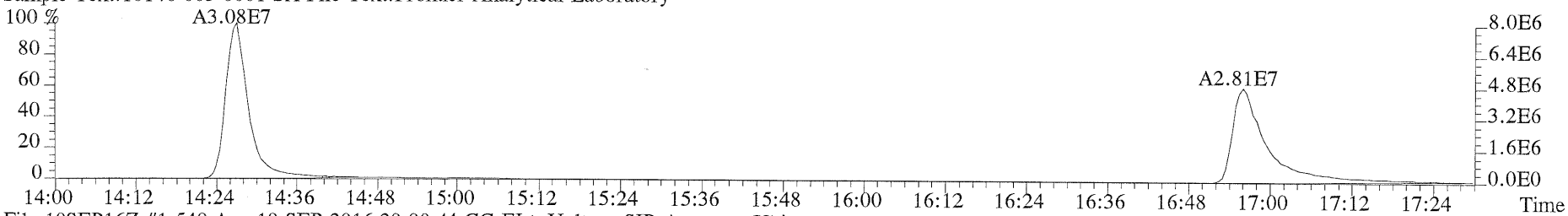
File:19SEP16Z #1-549 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



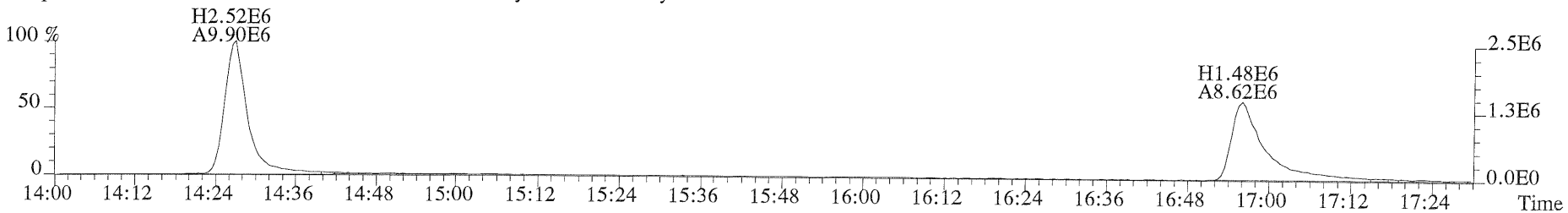
File:19SEP16Z #1-549 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



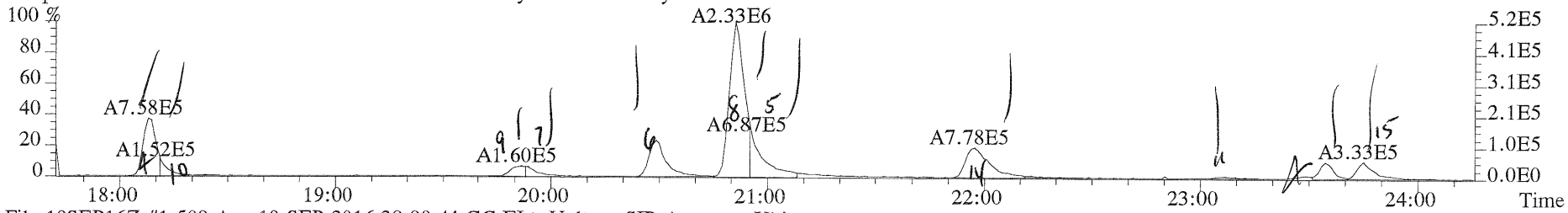
File:19SEP16Z #1-549 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



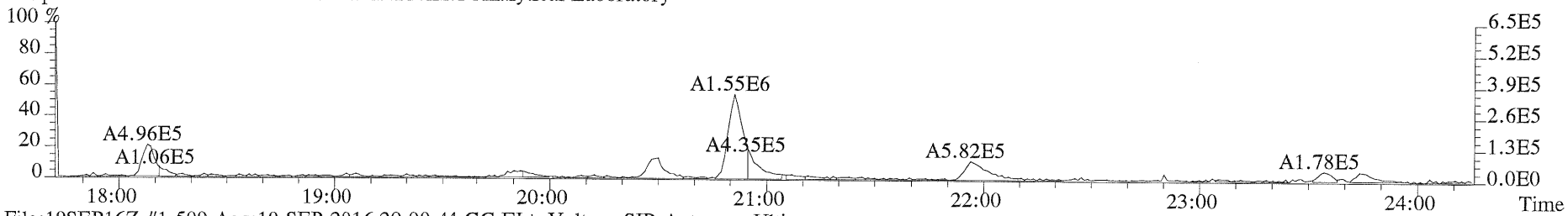
File:19SEP16Z #1-549 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



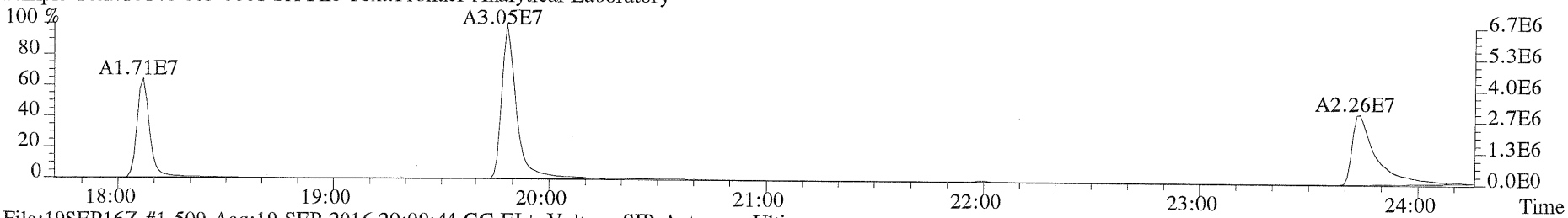
File:19SEP16Z #1-509 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



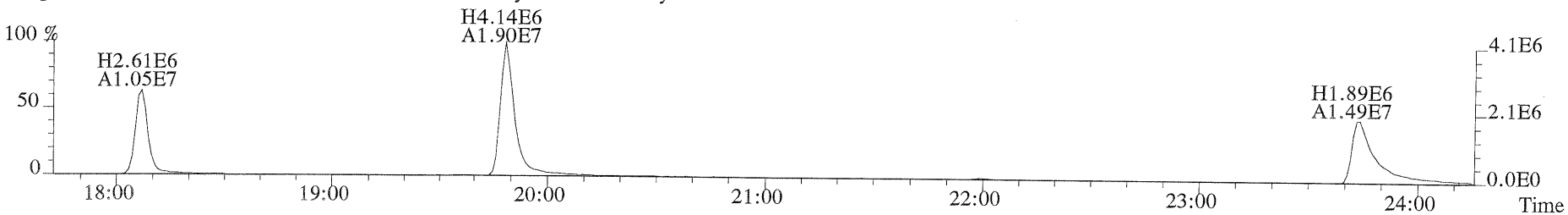
File:19SEP16Z #1-509 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



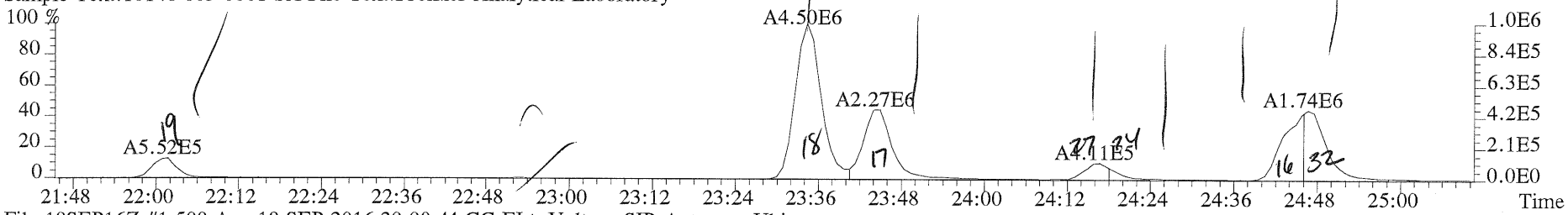
File:19SEP16Z #1-509 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



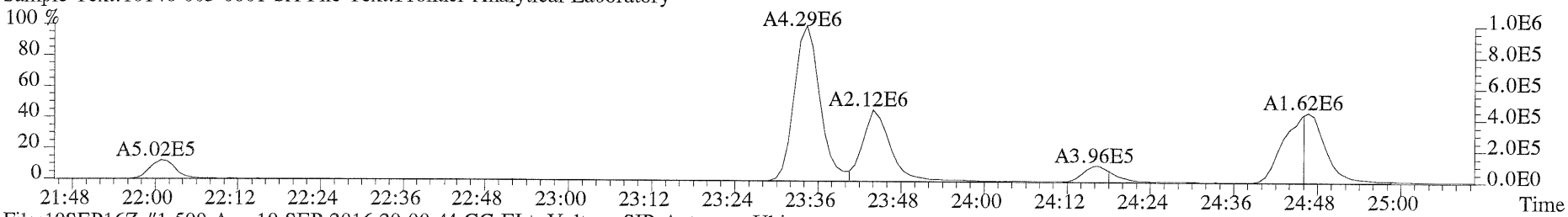
File:19SEP16Z #1-509 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



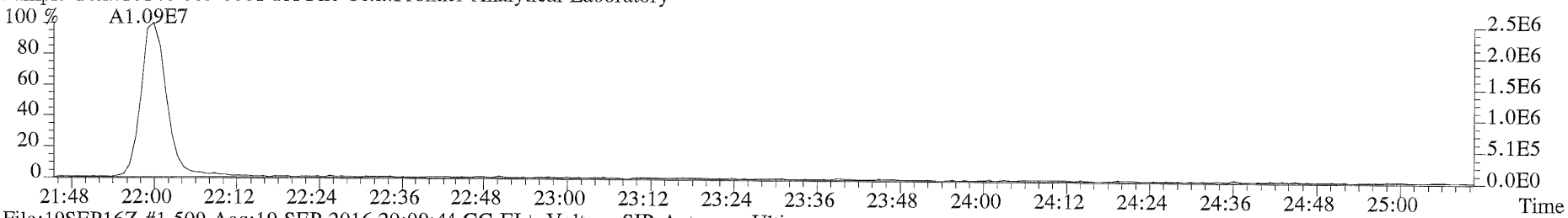
File:19SEP16Z #1-509 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



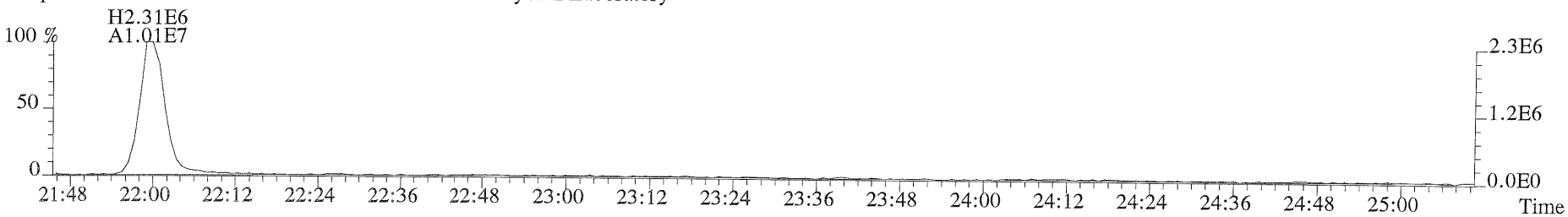
File:19SEP16Z #1-509 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



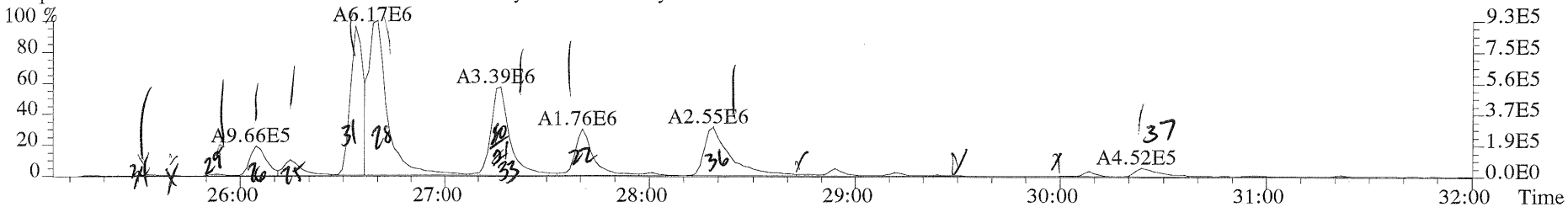
File:19SEP16Z #1-509 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



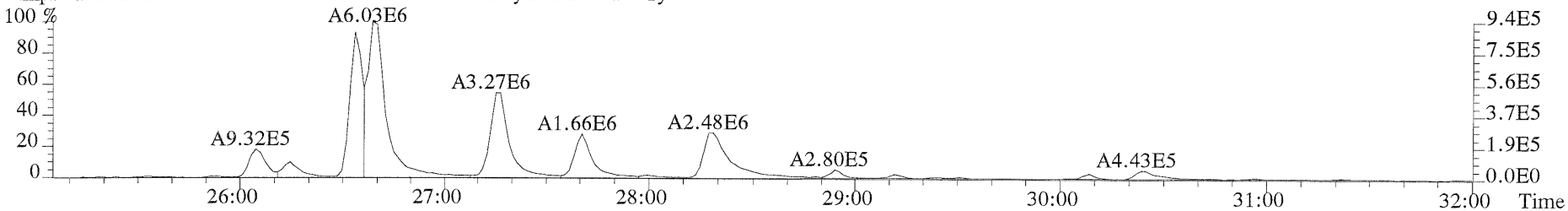
File:19SEP16Z #1-509 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



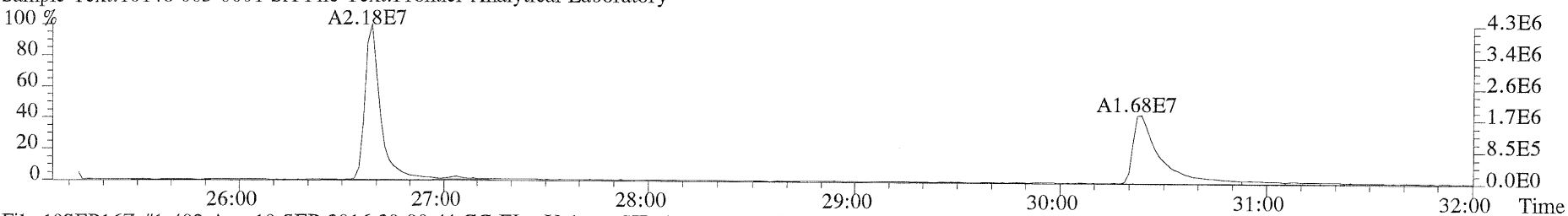
File:19SEP16Z #1-403 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



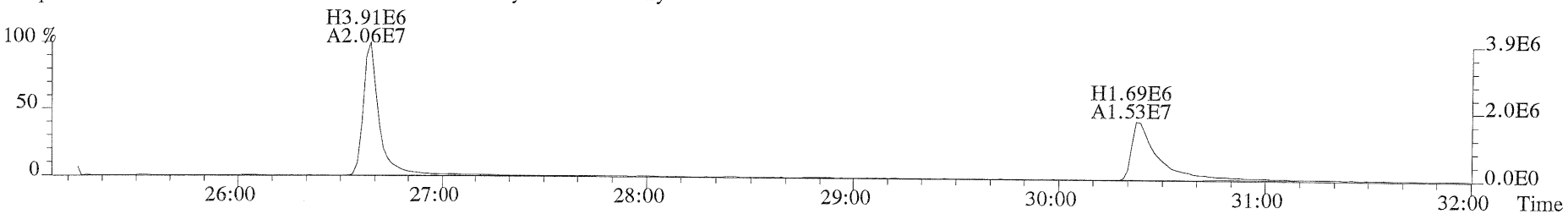
File:19SEP16Z #1-403 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



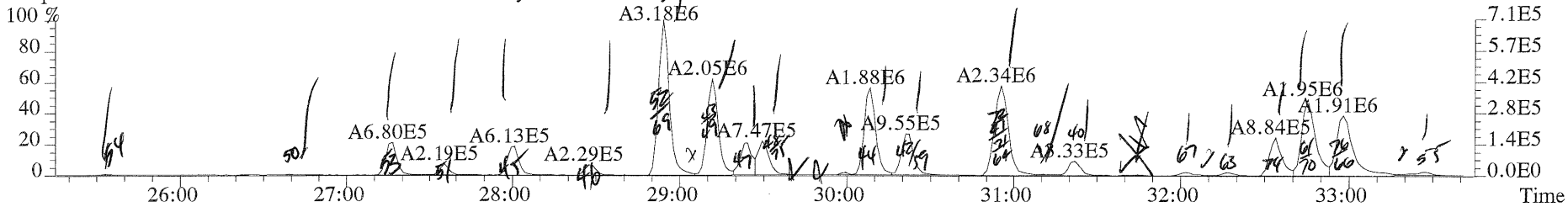
File:19SEP16Z #1-403 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



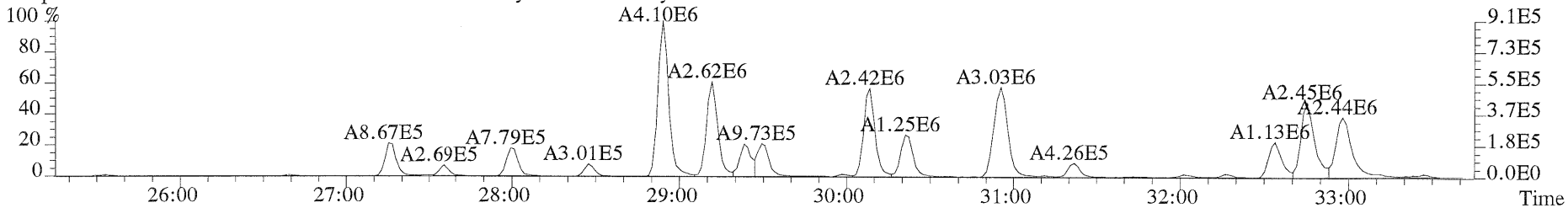
File:19SEP16Z #1-403 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



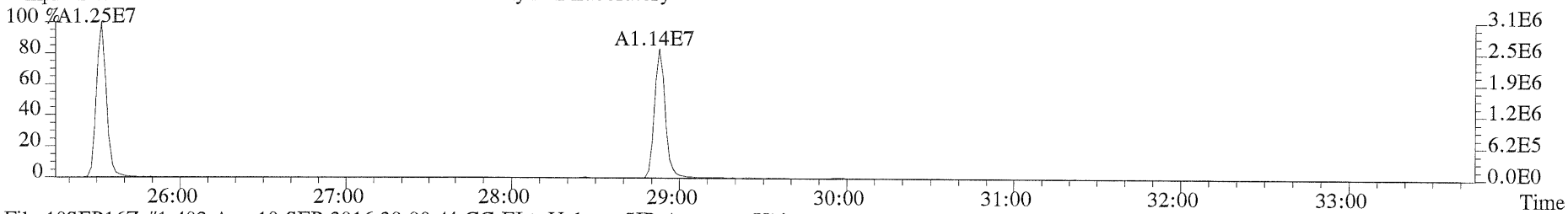
File:19SEP16Z #1-403 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



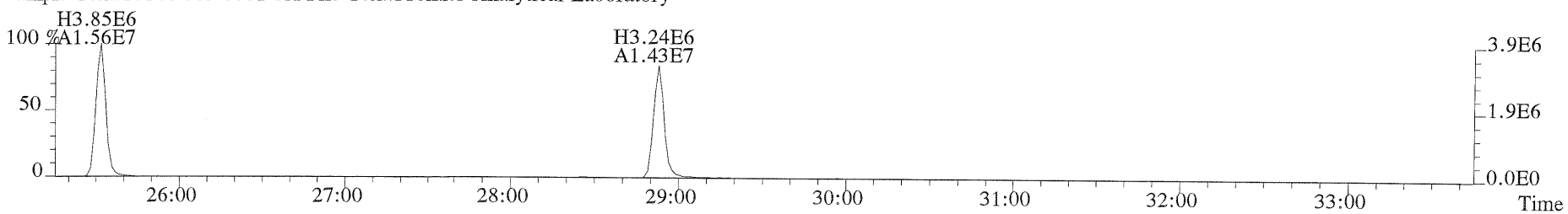
File:19SEP16Z #1-403 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



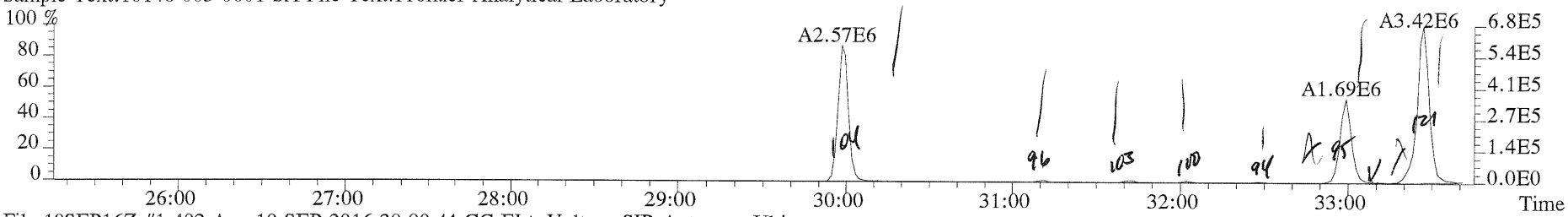
File:19SEP16Z #1-403 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



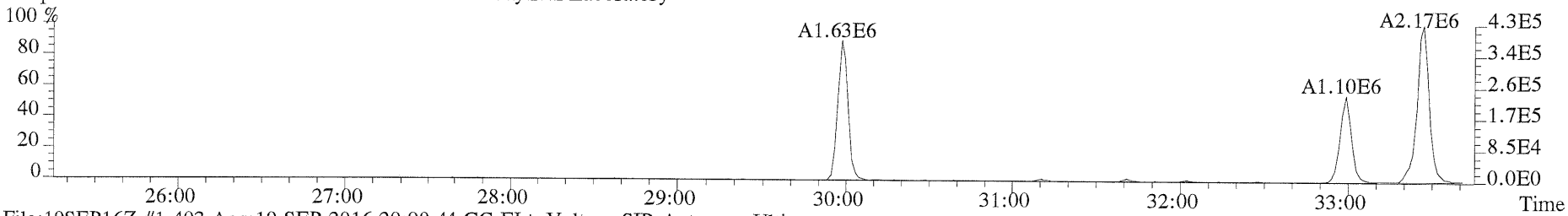
File:19SEP16Z #1-403 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



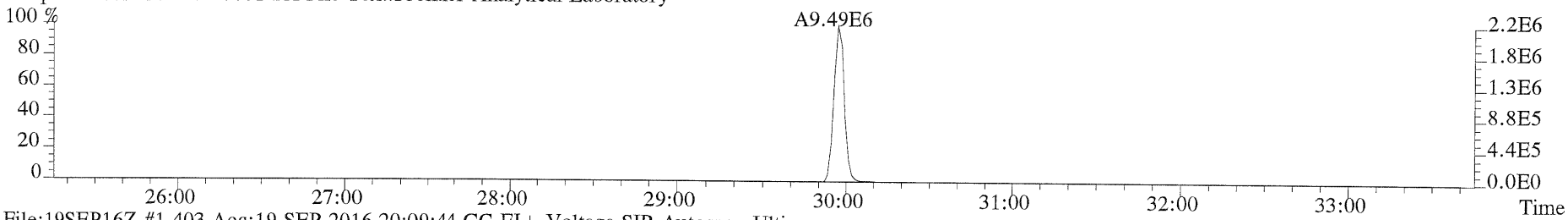
File:19SEP16Z #1-403 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



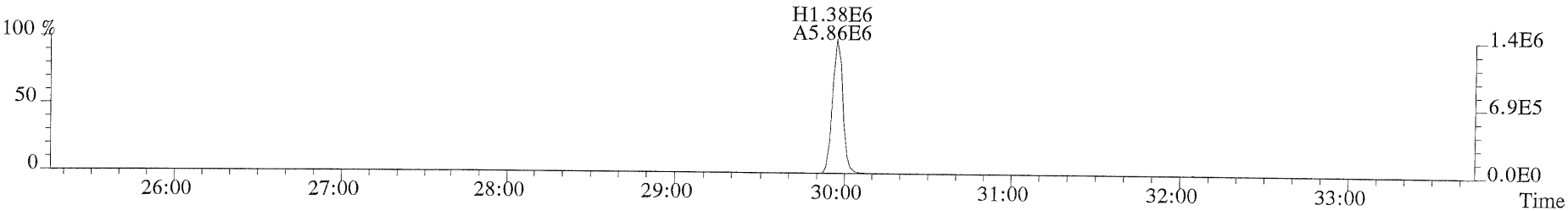
File:19SEP16Z #1-403 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



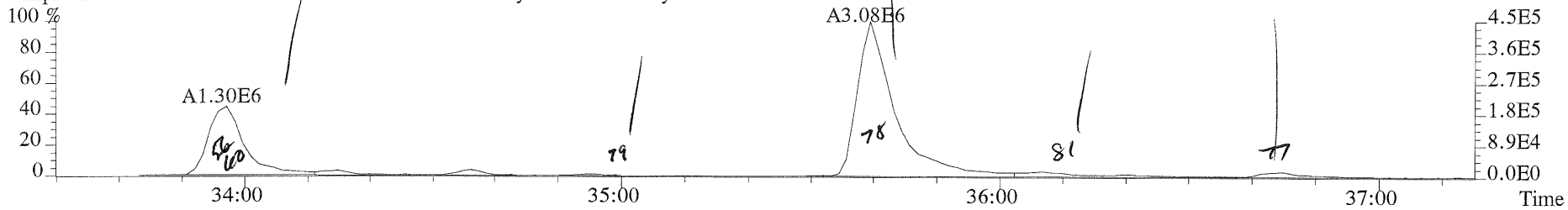
File:19SEP16Z #1-403 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-403 Acq:19-SEP-2016 20:09:44 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:10146-003-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:19-SEP-2016 20:09:44 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:10146-003-0001-SA File Text:Frontier Analytical Laboratory



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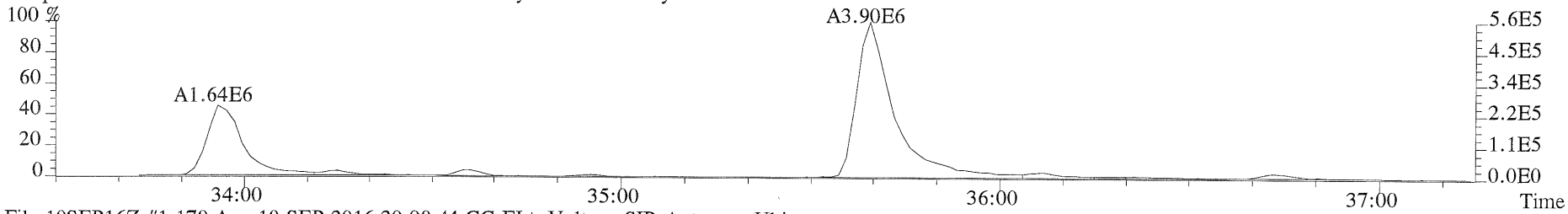
291.9194 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



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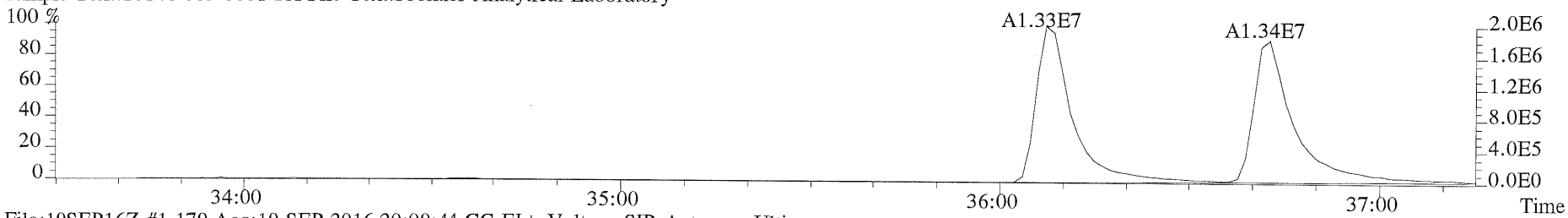
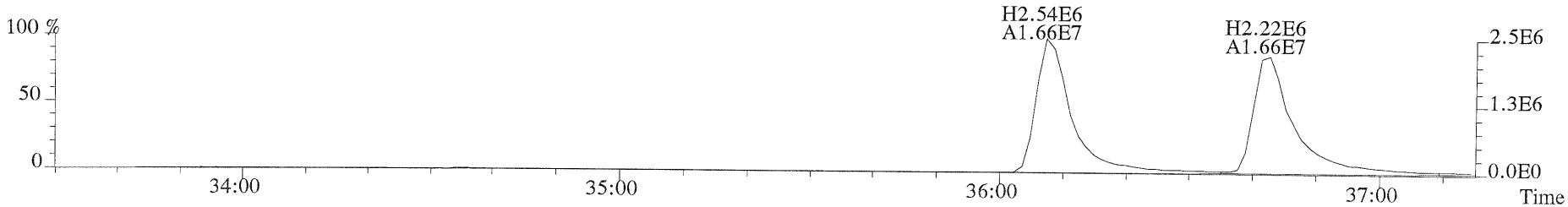
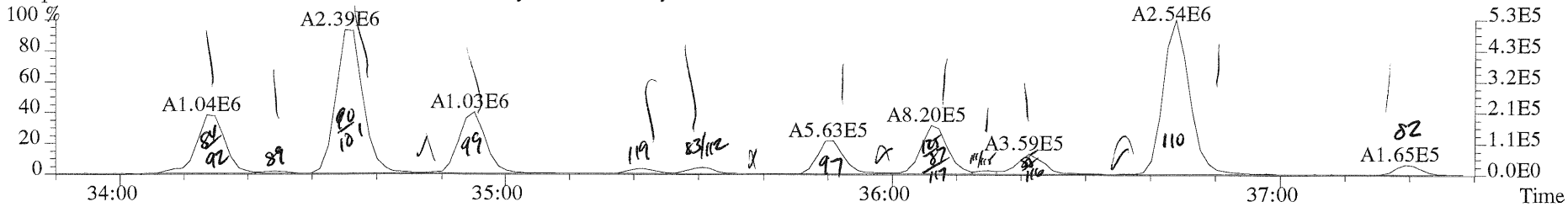
301.9626 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



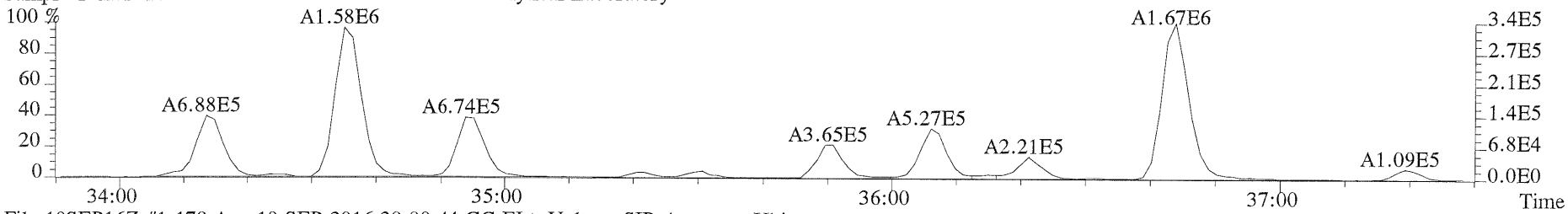
File:19SEP16Z #1-179 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



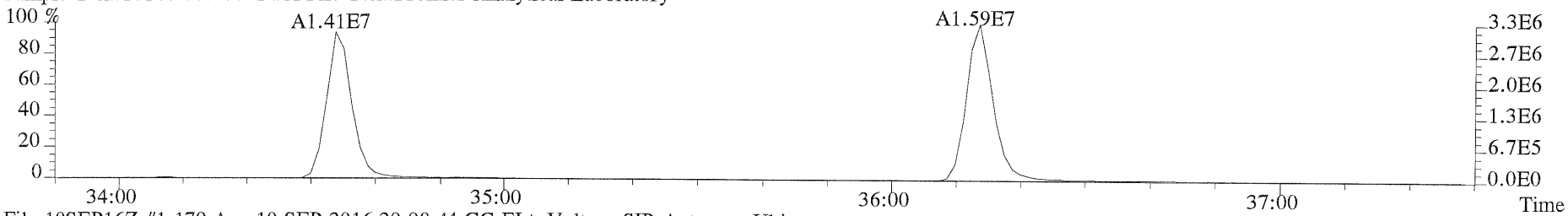
File:19SEP16Z #1-179 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



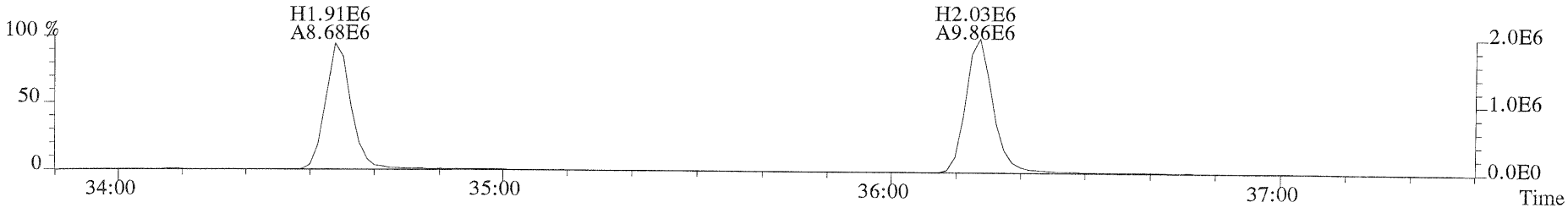
File:19SEP16Z #1-179 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



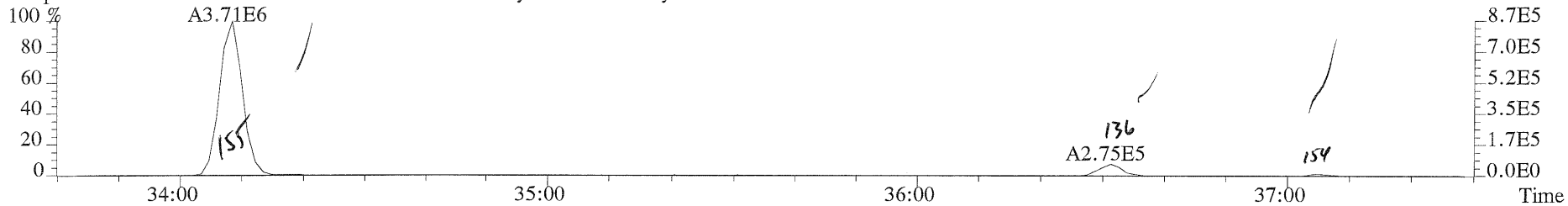
File:19SEP16Z #1-179 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



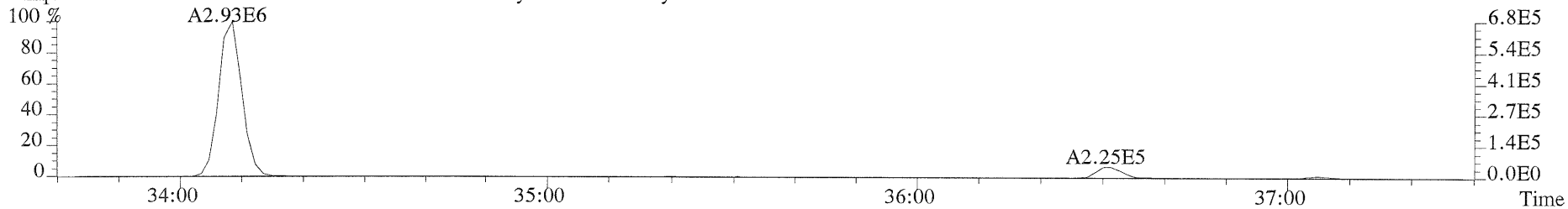
File:19SEP16Z #1-179 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



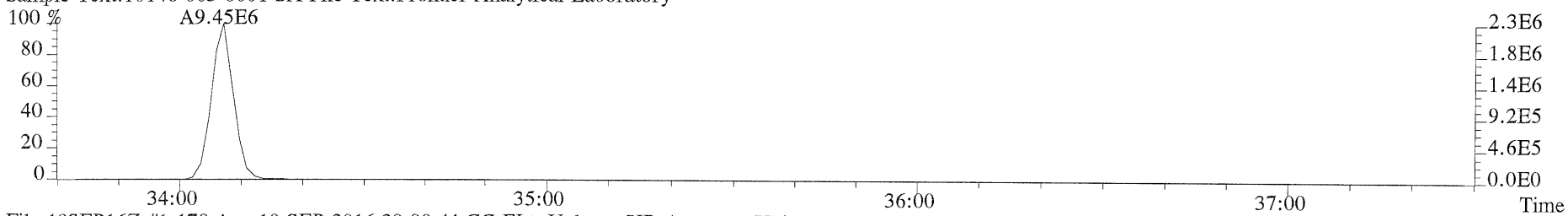
File:19SEP16Z #1-179 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



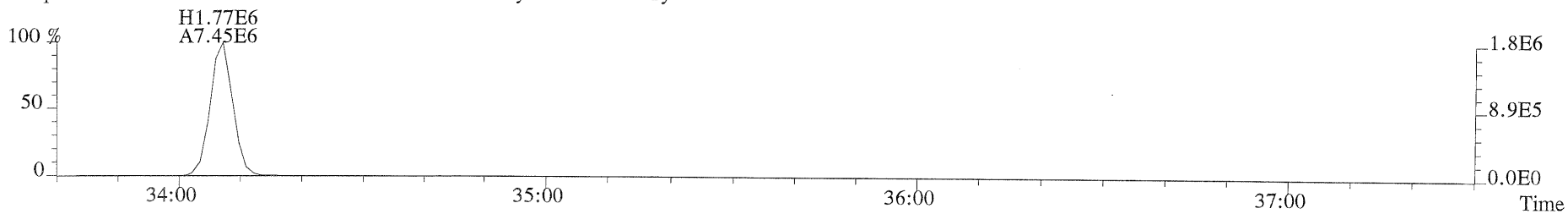
File:19SEP16Z #1-179 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



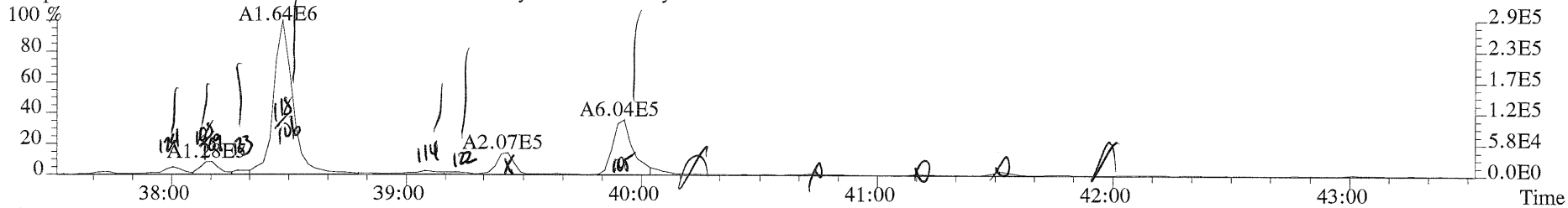
File:19SEP16Z #1-179 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



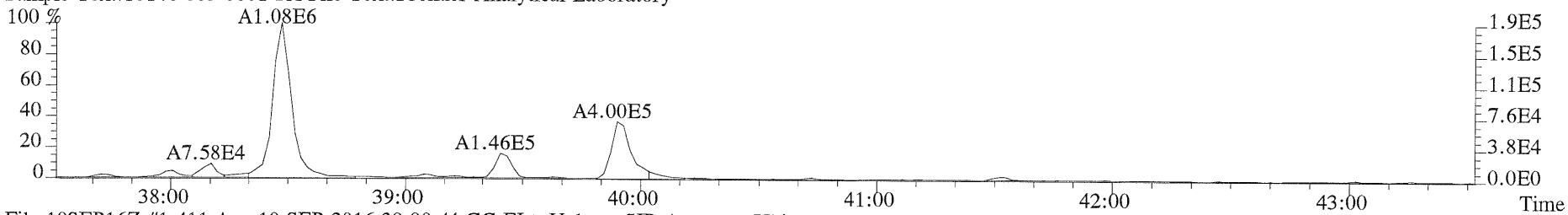
File:19SEP16Z #1-179 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



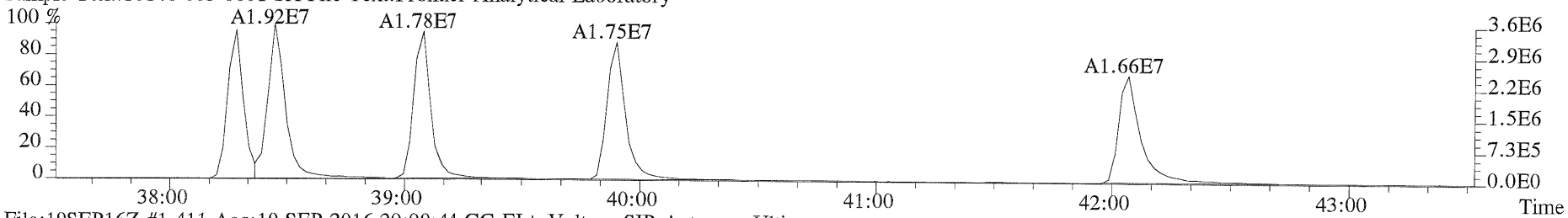
File:19SEP16Z #1-411 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



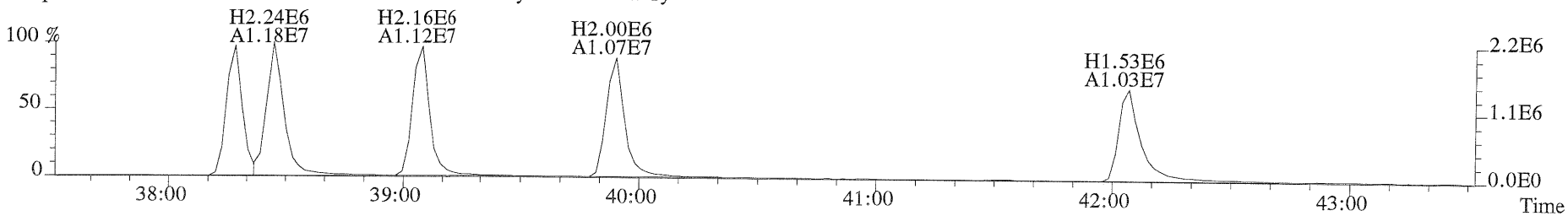
File:19SEP16Z #1-411 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



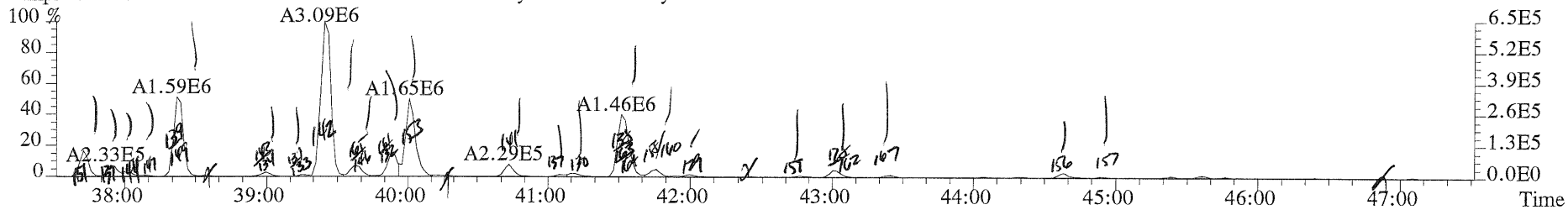
File:19SEP16Z #1-411 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



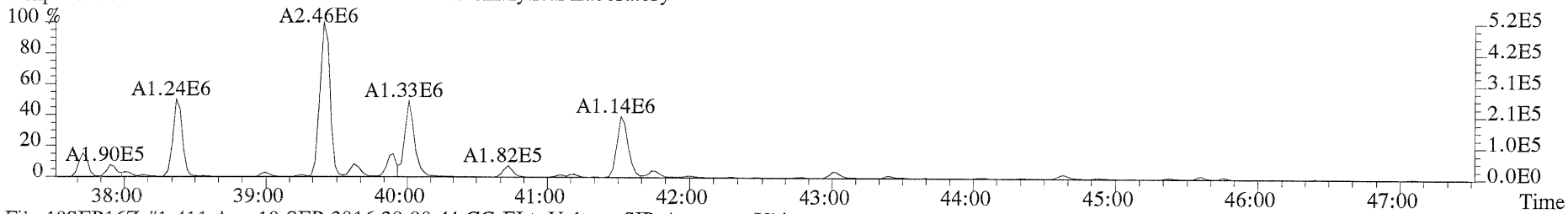
File:19SEP16Z #1-411 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



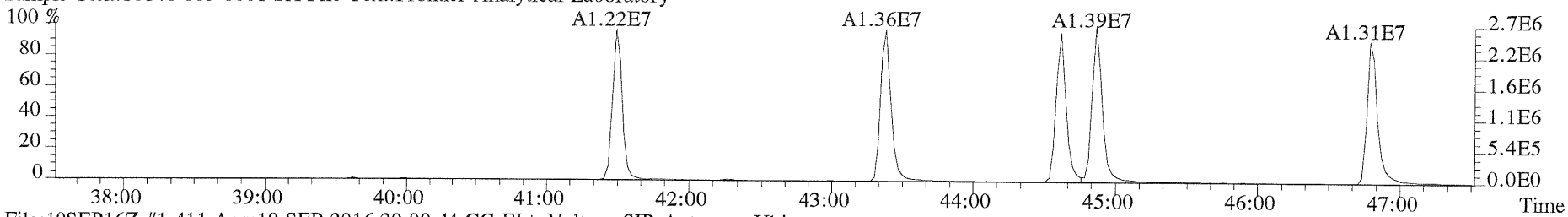
File:19SEP16Z #1-411 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



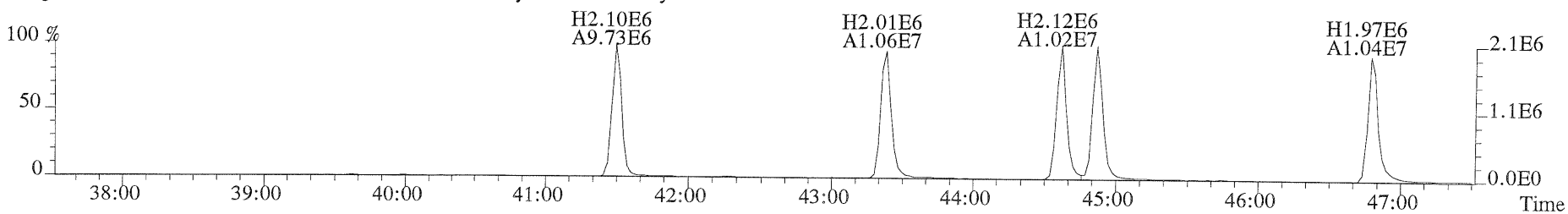
File:19SEP16Z #1-411 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



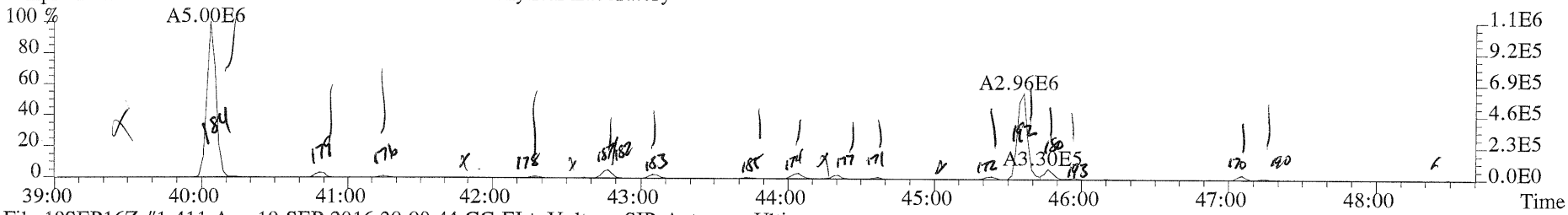
File:19SEP16Z #1-411 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



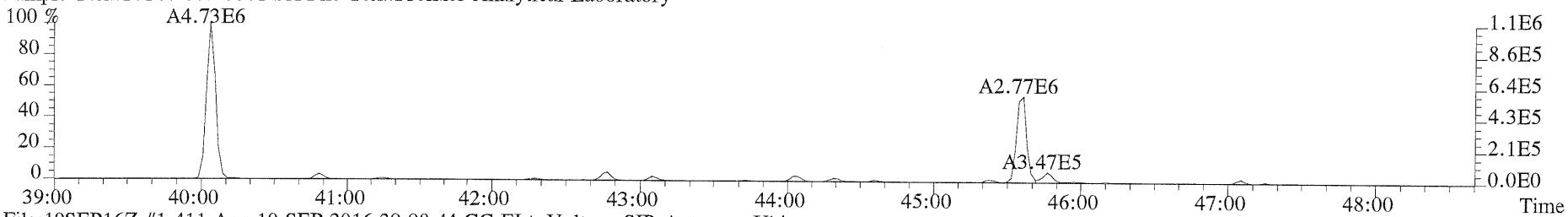
File:19SEP16Z #1-411 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



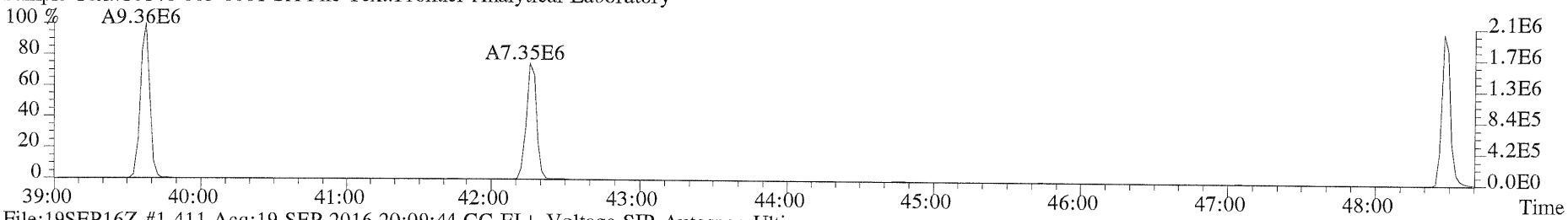
File:19SEP16Z #1-411 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



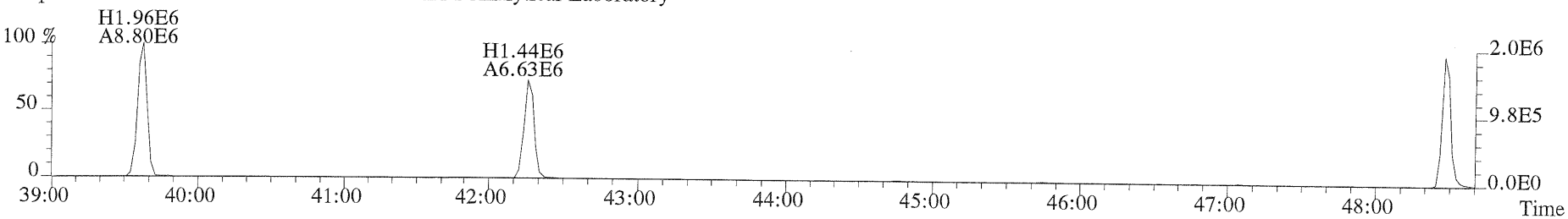
File:19SEP16Z #1-411 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



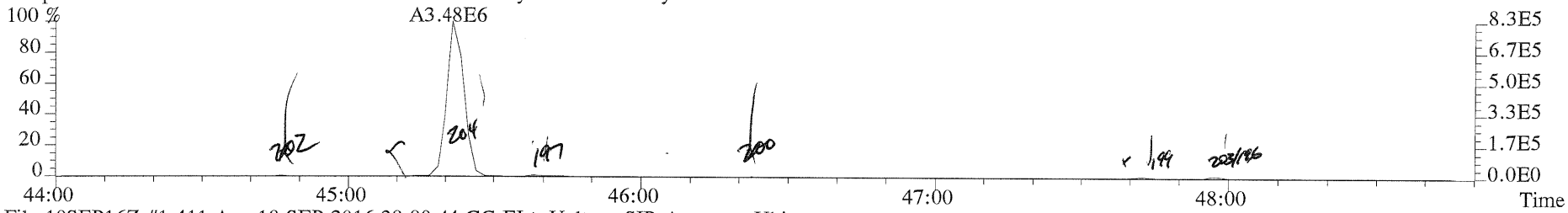
File:19SEP16Z #1-411 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



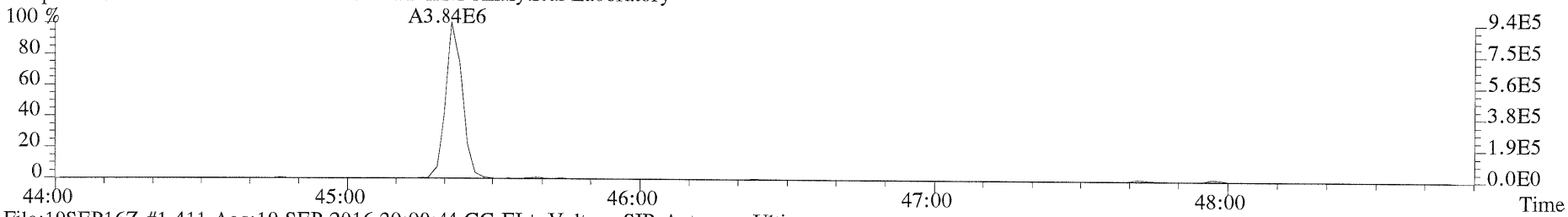
File:19SEP16Z #1-411 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



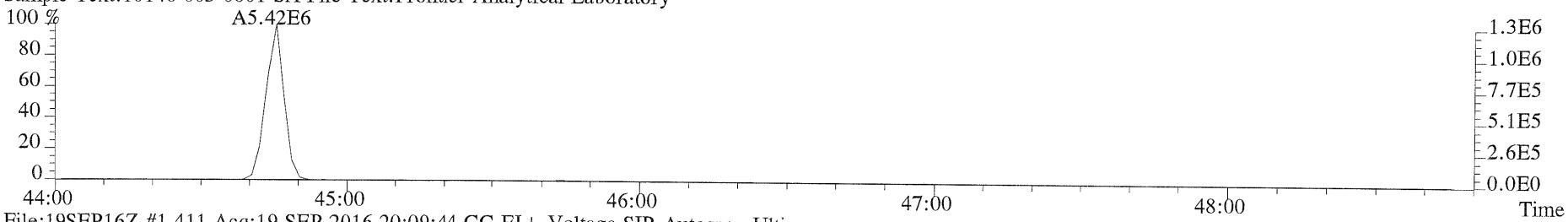
File:19SEP16Z #1-411 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



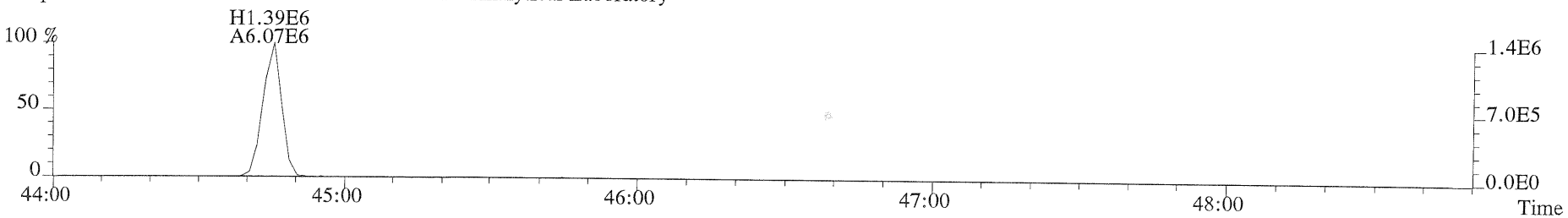
File:19SEP16Z #1-411 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



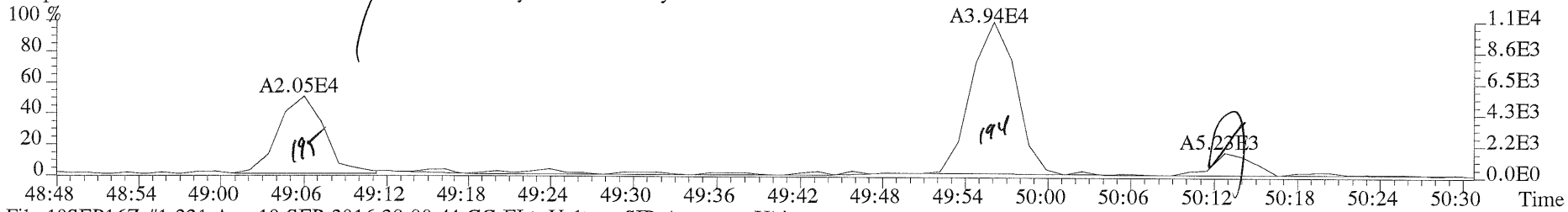
File:19SEP16Z #1-411 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



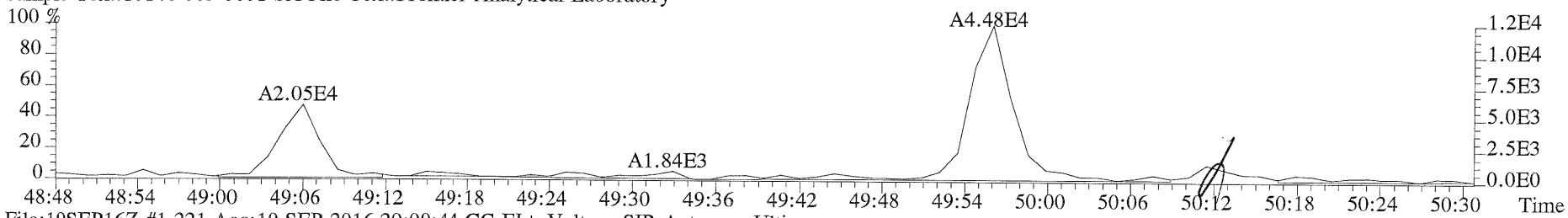
File:19SEP16Z #1-411 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



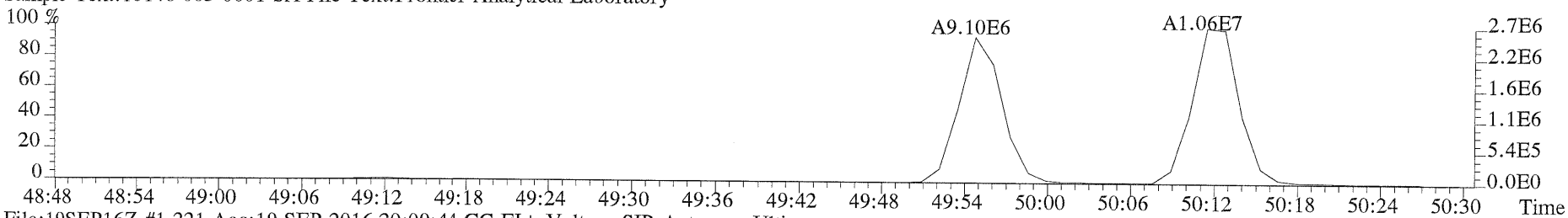
File:19SEP16Z #1-221 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



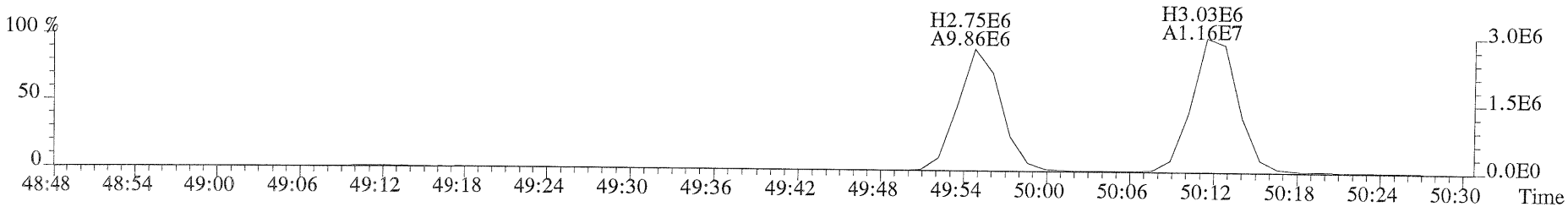
File:19SEP16Z #1-221 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



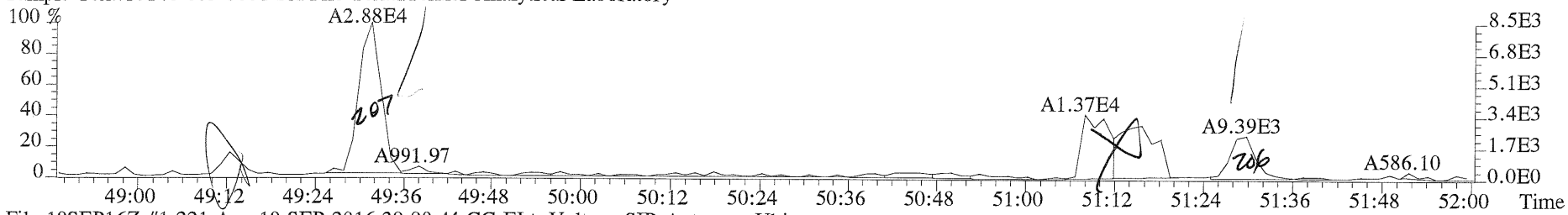
File:19SEP16Z #1-221 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



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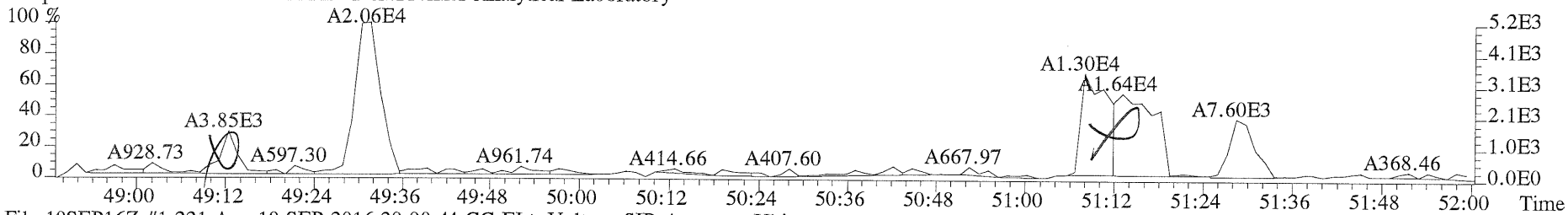
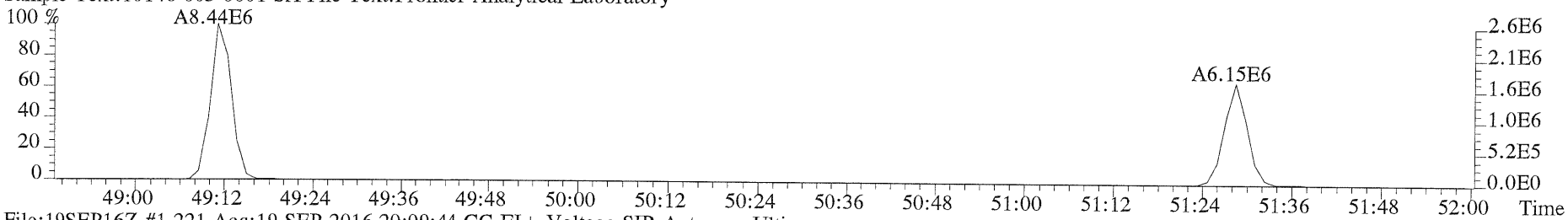
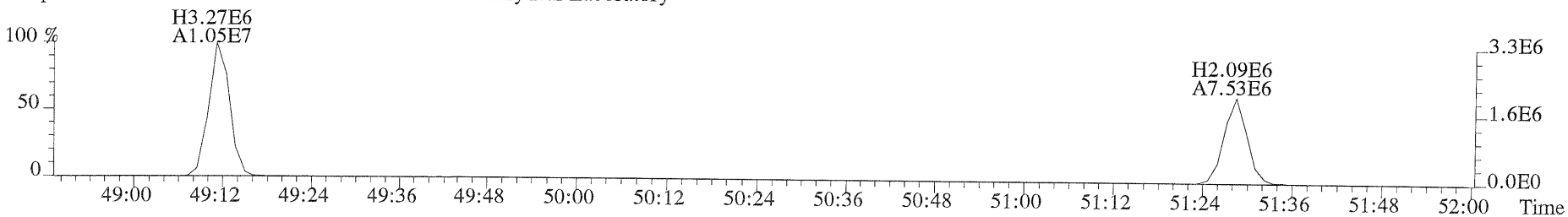
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



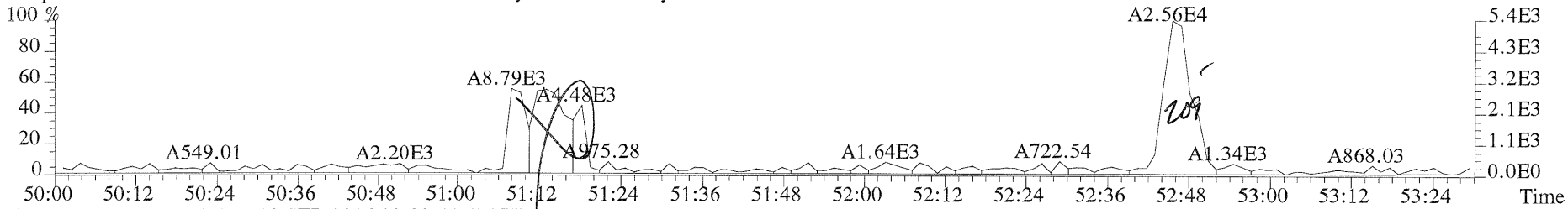
File:19SEP16Z #1-221 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



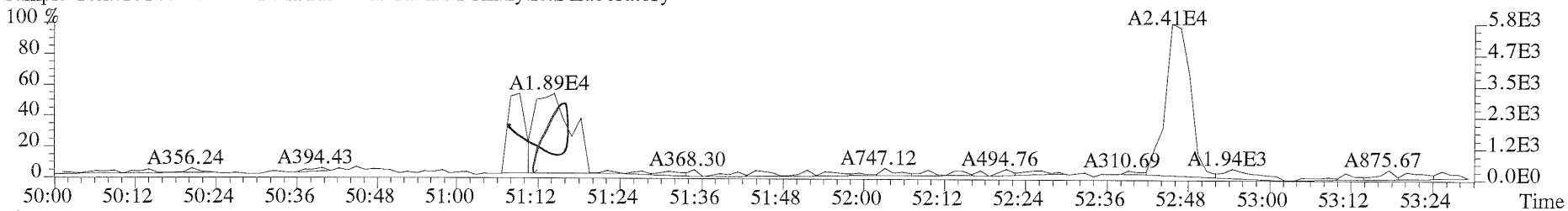
File:19SEP16Z #1-221 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



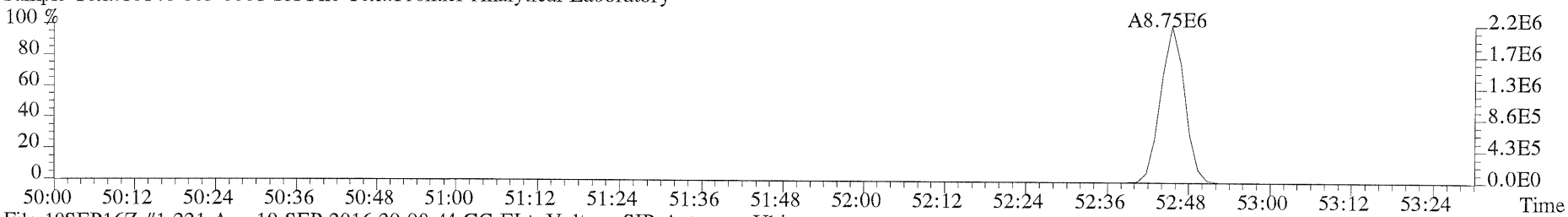
File:19SEP16Z #1-221 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



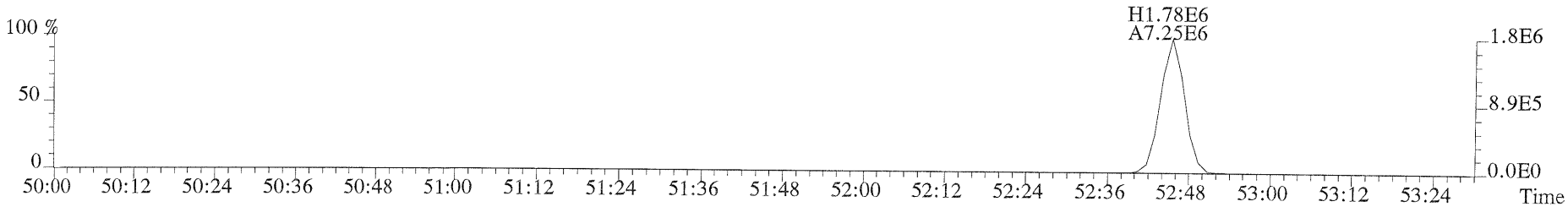
File:19SEP16Z #1-221 Acq:19-SEP-2016 20:09:44 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-003-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 20:09:44 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:10146-003-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 20:09:44 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:10146-003-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10146-004-0001-SA Filename: 19SEP16Z Sam:8 Acquired: 19-SEP-16 21:06:11 ICal: DAILY209FAL4-9-19-16
Client ID: LDW-BA-SC-ENR-CA-S010 ConCal: ST091916Z1 EndCal: ST091916Z2
Results: 10146 GC Column: DB1 Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	1.12	*		912	672	3.85	
13C-PCB-1	3.78e+07	3.21	y	14:27	0.94	9320					93.2
PCB-2	*	*	n	NotFnd	0.91	*		912	672	6.65	
PCB-3	*	*	n	NotFnd	1.28	*		912	672	6.40	
13C-PCB-3	3.15e+07	3.22	y	16:57	0.80	9070					90.7
PCB-4	1.04e+05	1.42	y	18:08	1.14	35.5		-	-	*	
PCB-10	*	*	n	NotFnd	1.32	*		1290	1010	9.85	
13C-PCB-4	2.57e+07	1.58	y	18:08	0.63	9480					94.8
PCB-9	*	*	n	NotFnd	1.35	*		1290	1010	9.64	
PCB-7	*	*	n	NotFnd	1.51	*		1290	1010	8.66	
PCB-6	1.73e+05	1.39	y	20:30	1.47	39.9		-	-	*	
PCB-8	2.80e+05	1.50	y	20:52	1.28	74.1		-	-	*	
PCB-5	1.36e+05	1.41	y	20:55	1.55	29.8		-	-	*	
PCB-14	2.21e+05	1.43	y	22:00	1.38	54.5		-	-	*	
PCB-11	*	*	n	NotFnd	1.14	*		1290	1010	11.4	
PCB-13	*	*	n	NotFnd	1.15	*		1290	1010	11.3	
PCB-12	*	*	n	NotFnd	1.29	*		1290	1010	10.1	
PCB-15	1.11e+05	1.52	y	23:46	1.33	25.2		-	-	*	
13C-PCB-15	3.32e+07	1.60	y	23:45	0.88	8730					87.3
PCB-19	1.27e+05	1.04	y	22:01	1.22	55.0		-	-	*	
PCB-30	*	*	n	NotFnd	1.71	*		856	484	4.40	
PCB-18	9.55e+05	1.07	y	23:35	1.12	450		-	-	*	
PCB-17	5.07e+05	1.03	y	23:45	1.29	207		-	-	*	
PCB-27	1.41e+05	1.16	y	24:17	1.63	45.7		-	-	*	
PCB-24	4.16e+04	1.18	y	24:19	1.69	13.1	J	-	-	*	
PCB-16	2.84e+05	1.03	y	24:46	1.28	117		-	-	*	
PCB-32	4.87e+05	1.06	y	24:47	1.55	166		-	-	*	
13C-PCB-19	1.89e+07	1.11	y	22:00	0.47	9250					92.5
13C-PCB-9	4.33e+07	1.58	y	19:49	-	44.1					
PCB-34	*	*	n	NotFnd	0.98	*		550	525	9.21	
PCB-23	*	*	n	NotFnd	1.44	*		550	525	6.25	
PCB-29	*	*	n	NotFnd	1.25	*		550	525	7.20	
PCB-26	4.37e+05	1.05	y	26:05	1.21	117		-	-	*	
PCB-25	3.01e+05	1.18	y	26:16	1.53	64.2		-	-	*	
PCB-31	1.18e+06	0.98	y	26:35	1.11	346		-	-	*	
PCB-28	2.34e+06	1.12	y	26:40	1.60	477		-	-	*	
PCB-20	8.39e+05	1.05	y	27:18	1.32	207		-	-	*	Co-elute PCB 21/33
PCB-21	8.39e+05	1.05	y	27:18	1.32	207		-	-	*	Co-elute PCB 20/33
PCB-33	8.39e+05	1.05	y	27:18	1.32	207		-	-	*	Co-elute PCB 20/21
PCB-22	5.60e+05	1.03	y	27:42	1.34	136		-	-	*	
PCB-36	2.52e+06	1.05	y	28:19	1.11	737		-	-	*	
PCB-39	*	*	n	NotFnd	1.09	*		550	525	8.27	
PCB-38	*	*	n	NotFnd	1.24	*		550	525	7.28	
PCB-35	*	*	n	NotFnd	0.96	*		550	525	9.37	
PCB-37	2.01e+05	1.18	y	30:25	1.29	50.9		-	-	*	
13C-PCB-37	3.07e+07	1.11	y	30:25	1.43	9090					90.9

PCB-54	*	*	n	NotFnd	1.17	*		400	708	3.84	
PCB-50	*	*	n	NotFnd	0.86	*		400	708	5.23	
PCB-53	3.67e+05	0.79	y	27:16	0.83	172		-	-	*	
PCB-51	1.29e+05	0.81	y	27:37	0.86	57.6		-	-	*	
PCB-45	2.36e+05	0.78	y	28:01	0.74	124		-	-	*	
PCB-46	1.02e+05	0.79	y	28:28	0.69	57.3		-	-	*	
PCB-52	2.33e+06	0.78	y	28:55	1.02	881		-	-	*	Co-elute PCB 69
PCB-69	2.33e+06	0.78	y	28:55	1.02	881		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.05	*		400	708	4.27	
PCB-43	1.43e+06	0.74	y	29:13	0.79	702		-	-	*	Co-elute PCB 49
PCB-49	1.43e+06	0.74	y	29:13	0.79	702		-	-	*	Co-elute PCB 43
PCB-47	5.30e+05	0.82	y	29:24	0.96	213		-	-	*	
PCB-48	3.69e+05	0.78	y	29:30	1.05	136		-	-	*	Co-elute PCB 75
PCB-75	3.69e+05	0.78	y	29:30	1.05	136		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.04	*		400	708	4.32	
PCB-62	*	*	n	NotFnd	1.01	*		400	708	4.43	
PCB-44	1.05e+06	0.79	y	30:08	0.73	561		-	-	*	
PCB-42	5.27e+05	0.86	y	30:22	0.99	207		-	-	*	Co-elute PCB 59
PCB-59	5.27e+05	0.86	y	30:22	0.99	207		-	-	*	Co-elute PCB 42
PCB-72	1.36e+06	0.77	y	30:55	1.06	496		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.36e+06	0.77	y	30:55	1.06	496		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.36e+06	0.77	y	30:55	1.06	496		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.36e+06	0.77	y	30:55	1.06	496		-	-	*	Co-elute PCB 72/41/71
PCB-68	3.72e+04	0.88	y	31:14	1.12	12.8	J	-	-	*	
PCB-40	1.83e+05	0.82	y	31:22	0.64	111		-	-	*	
PCB-57	*	*	n	NotFnd	1.06	*		400	708	4.26	
PCB-67	4.60e+04	0.83	y	32:03	1.06	16.7	J	-	-	*	
PCB-58	*	*	n	NotFnd	1.03	*		400	708	4.35	
PCB-63	5.36e+04	0.72	y	32:18	1.07	19.4	J	-	-	*	
PCB-74	5.92e+05	0.72	y	32:34	1.11	207		-	-	*	
PCB-61	1.36e+06	0.79	y	32:46	1.08	484		-	-	*	Co-elute PCB 70
PCB-70	1.36e+06	0.79	y	32:46	1.08	484		-	-	*	Co-elute PCB 61
PCB-76	1.45e+06	0.79	y	32:59	1.14	492		-	-	*	Co-elute PCB 66
PCB-66	1.45e+06	0.79	y	32:59	1.14	492		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.22	*		400	708	3.68	
PCB-55	1.44e+05	0.73	y	33:28	1.10	50.7		-	-	*	
13C-PCB-54	2.59e+07	0.80	y	25:31	1.20	9110					91.1
PCB-104	3.28e+06	1.57	y	29:59	1.25	1850		-	-	*	
PCB-96	2.28e+04	1.37	y	31:10	1.14	14.1	J	-	-	*	
PCB-103	3.89e+04	1.53	y	31:40	0.94	29.2		-	-	*	
PCB-100	2.92e+04	1.53	y	32:02	0.91	22.5		-	-	*	
PCB-94	*	*	n	NotFnd	0.76	*		380	412	8.02	
PCB-98	*	*	n	NotFnd	0.97	*		380	412	6.23	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.97	*		380	412	6.23	Co-elute PCB 98
PCB-95	1.37e+06	1.54	y	33:00	0.80	1200		-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*		380	412	7.79	
PCB-88	*	*	n	NotFnd	0.81	*		380	412	7.52	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.81	*		380	412	7.52	Co-elute PCB 88
PCB-121	4.36e+06	1.61	y	33:27	1.15	2680		-	-	*	
13C-PCB-104	1.42e+07	1.65	y	29:58	0.66	9170					91.7
13C-PCB-28	3.80e+07	1.07	y	26:38	1.63	9870					98.7
13C-PCB-52	2.36e+07	0.80	y	28:54	-	44.3					

PCB-56	7.72e+05	0.73	y	33:58	1.24	220		-	-	*	Co-elute PCB 60
PCB-60	7.72e+05	0.73	y	33:58	1.24	220		-	-	*	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.23	*		1010	987	10.0	
PCB-78	4.99e+06	0.80	y	35:40	1.13	1560		-	-	*	
PCB-81	1.11e+05	0.81	y	36:07	1.23	31.9		-	-	*	
13C-PCB-81	2.82e+07	0.80	y	36:08	1.35	9850					98.5
PCB-77	9.41e+04	0.86	y	36:44	1.14	28.9		-	-	*	
13C-PCB-77	2.85e+07	0.79	y	36:42	1.37	9760					97.6
PCB-155	5.71e+06	1.27	y	34:08	1.18	3090		-	-	*	
PCB-150	*	*	n	NotFnd	1.01	*		356	416	5.25	
PCB-152	*	*	n	NotFnd	1.00	*		356	416	5.36	
PCB-145	*	*	n	NotFnd	1.00	*		356	416	5.32	
PCB-136	3.12e+05	1.19	y	36:31	0.94	212		-	-	*	
PCB-148	*	*	n	NotFnd	0.78	*		356	416	6.81	
PCB-154	6.06e+04	1.08	y	37:05	0.85	45.6		-	-	*	
13C-PCB-155	1.57e+07	1.27	y	34:07	0.84	8810					88.1
13C-PCB-111	2.36e+07	1.58	y	36:13	1.16	9520					95.2
13C-PCB-101	2.13e+07	1.61	y	34:35	-	46.8					
PCB-84	8.73e+05	1.58	y	34:14	0.68	461		-	-	*	Co-elute PCB 92
PCB-92	8.73e+05	1.58	y	34:14	0.68	461		-	-	*	Co-elute PCB 84
PCB-89	2.23e+04	1.38	y	34:25	0.67	12.0	J	-	-	*	
PCB-90	2.04e+06	1.54	y	34:36	0.76	963		-	-	*	Co-elute PCB 101
PCB-101	2.04e+06	1.54	y	34:36	0.76	963		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.85	*		1010	810	10.1	
PCB-99	9.38e+05	1.55	y	34:55	0.85	398		-	-	*	
PCB-119	7.59e+04	1.52	y	35:21	0.96	28.4		-	-	*	
PCB-83	9.71e+04	1.54	y	35:30	0.78	44.6		-	-	*	Co-elute PCB 112
PCB-112	9.71e+04	1.54	y	35:30	0.78	44.6		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.92	*		1010	810	9.29	
PCB-97	4.65e+05	1.54	y	35:51	0.82	205		-	-	*	
PCB-86	*	*	n	NotFnd	0.66	*		1010	810	13.0	
PCB-125	6.42e+05	1.55	y	36:07	0.85	271		-	-	*	Co-elute PCB 87/117
PCB-87	6.42e+05	1.55	y	36:07	0.85	271		-	-	*	Co-elute PCB 125/117
PCB-117	6.42e+05	1.55	y	36:07	0.85	271		-	-	*	Co-elute PCB 125/87
PCB-111	3.93e+04	1.48	y	36:16	1.13	12.5	J	-	-	*	Co-elute PCB 115
PCB-115	3.93e+04	1.48	y	36:16	1.13	12.5	J	-	-	*	Co-elute PCB 111
PCB-85	2.73e+05	1.58	y	36:22	0.79	124		-	-	*	Co-elute PCB 116
PCB-116	2.73e+05	1.58	y	36:22	0.79	124		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.93	*		1010	810	9.21	
PCB-110	2.09e+06	1.60	y	36:44	1.07	703		-	-	*	
PCB-82	1.21e+05	1.55	y	37:20	0.55	78.6		-	-	*	
PCB-124	5.02e+04	1.48	y	38:00	1.03	17.6	J	-	-	*	
PCB-108	1.06e+05	1.45	y	38:10	1.17	32.7		-	-	*	Co-elute PCB 107
PCB-107	1.06e+05	1.45	y	38:10	1.17	32.7		-	-	*	Co-elute PCB 108
PCB-123	2.81e+04	1.54	y	38:18	1.34	8.19	J	-	-	*	
13C-PCB-123	2.56e+07	1.60	y	38:17	1.34	9090					90.9
PCB-118	1.46e+06	1.53	y	38:28	1.08	458		-	-	*	Co-elute PCB 106
PCB-106	1.46e+06	1.53	y	38:28	1.08	458		-	-	*	Co-elute PCB 118
13C-PCB-118	2.94e+07	1.63	y	38:26	1.45	9600					96.0
PCB-114	3.90e+04	1.43	y	39:06	1.10	12.4	J	-	-	*	
13C-PCB-114	2.85e+07	1.62	y	39:04	1.36	9910					99.1
PCB-122	*	*	n	NotFnd	1.25	*		556	644	4.51	
PCB-105	5.34e+05	1.58	y	39:55	1.16	166		-	-	*	
13C-PCB-105	2.78e+07	1.61	y	39:54	1.38	9540					95.4

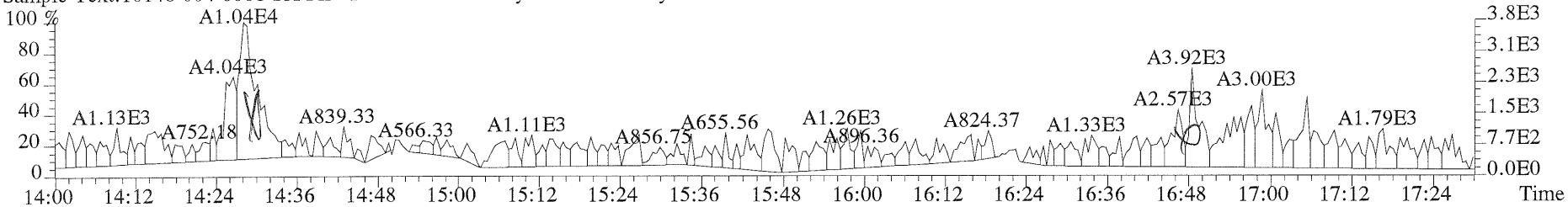
PCB-127	*	*	n	NotFnd	1.07	*		556	644	5.27		
PCB-126	*	*	n	NotFnd	1.17	*		556	644	6.80		
13C-PCB-126	2.62e+07	1.63	y	42:04	1.27	9800					98.0	
PCB-151	4.70e+05	1.20	y	37:44	0.89	234		-	-	*		
PCB-135	2.21e+05	1.24	y	37:55	0.81	121		-	-	*		
PCB-144	1.02e+05	1.21	y	38:02	1.04	43.4		-	-	*		
PCB-147	4.20e+04	1.36	y	38:08	0.96	19.2	J	-	-	*		
PCB-139	1.71e+06	1.27	y	38:23	0.98	769		-	-	*	Co-elute PCB 149	
PCB-149	1.71e+06	1.27	y	38:23	0.98	769		-	-	*	Co-elute PCB 139	
PCB-140	*	*	n	NotFnd	0.96	*		636	500	6.89		
PCB-143	7.82e+04	1.26	y	38:59	0.89	38.8		-	-	*	Co-elute PCB 134	
PCB-134	7.82e+04	1.26	y	38:59	0.89	38.8		-	-	*	Co-elute PCB 143	
PCB-131	4.35e+04	1.30	y	39:16	0.91	21.1		-	-	*	Co-elute PCB 133	
PCB-133	4.35e+04	1.30	y	39:16	0.91	21.1		-	-	*	Co-elute PCB 131	
PCB-142	4.57e+06	1.25	y	39:26	0.79	2550		-	-	*		
PCB-165	3.21e+05	1.23	y	39:37	1.07	132		-	-	*	Co-elute PCB 146	
PCB-146	3.21e+05	1.23	y	39:37	1.07	132		-	-	*	Co-elute PCB 165	
PCB-161	4.87e+05	1.18	y	39:54	1.01	213		-	-	*	Co-elute PCB 132	
PCB-132	4.87e+05	1.18	y	39:54	1.01	213		-	-	*	Co-elute PCB 161	
PCB-153	1.79e+06	1.28	y	40:02	1.05	756		-	-	*		
PCB-168	*	*	n	NotFnd	1.18	*		636	500	5.65		
PCB-141	2.20e+05	1.26	y	40:43	0.89	110		-	-	*		
PCB-137	3.33e+04	1.29	y	41:06	0.85	17.3	J	-	-	*		
PCB-130	6.75e+04	1.29	y	41:11	0.79	37.7		-	-	*		
PCB-138	1.50e+06	1.29	y	41:32	1.19	557		-	-	*	Co-elute PCB 163/164	
PCB-163	1.50e+06	1.29	y	41:32	1.19	557		-	-	*	Co-elute PCB 138/164	
PCB-164	1.50e+06	1.29	y	41:32	1.19	557		-	-	*	Co-elute PCB 138/163	
PCB-158	1.92e+05	1.16	y	41:46	1.18	72.2		-	-	*	Co-elute PCB 160	
PCB-160	1.92e+05	1.16	y	41:46	1.18	72.2		-	-	*	Co-elute PCB 158	
PCB-129	4.53e+04	1.34	y	42:00	0.73	27.3		-	-	*		
PCB-166	*	*	n	NotFnd	1.11	*		636	500	6.01		
PCB-159	2.87e+04	1.36	y	42:47	1.20	10.5	J	-	-	*		
PCB-128	1.60e+05	1.32	y	43:01	1.00	71.2		-	-	*	Co-elute PCB 162	
PCB-162	1.60e+05	1.32	y	43:01	1.00	71.2		-	-	*	Co-elute PCB 128	
PCB-167	4.30e+04	1.25	y	43:24	1.06	17.5	J	-	-	*		
13C-PCB-167	2.31e+07	1.27	y	43:23	1.15	9580					95.8	
PCB-156	8.51e+04	1.17	y	44:38	1.12	34.4		-	-	*		
13C-PCB-156	2.20e+07	1.29	y	44:37	1.10	9480					94.8	
PCB-157	*	*	n	NotFnd	1.13	*		636	500	6.17		
13C-PCB-157	2.32e+07	1.28	y	44:52	1.13	9750					97.5	
PCB-169	*	*	n	NotFnd	1.07	*		636	500	6.58		
13C-PCB-169	2.21e+07	1.27	y	46:47	1.05	9980					99.8	

FAL ID: 10146-004-0001-SA Filename: 19SEP16Z Sam:8 Acquired: 19-SEP-16 21:06:11 ICal: DAILY209FAL4-9-19-16
Client ID: LDW-BA-SC-ENR-CA-S010 ConCal: ST091916Z1 EndCal: ST091916Z2
Results: 10146 GC Column: DB1 Amount: 1.000

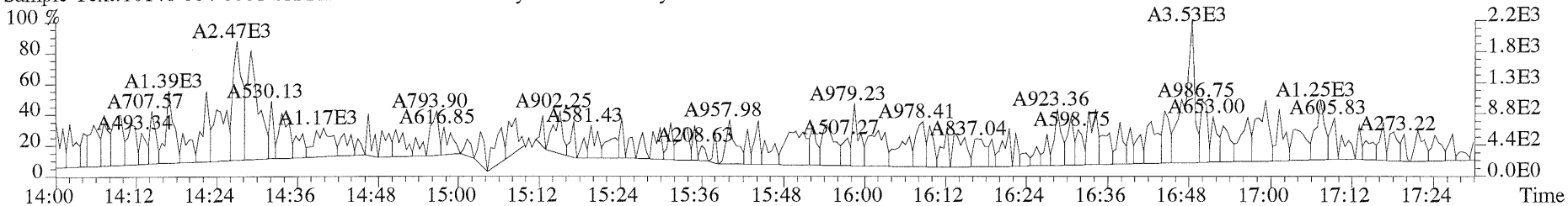
PCB-188	*	*	n	NotFnd	1.25	*		360	368	3.52	
13C-PCB-188	1.74e+07	1.07	y	39:37	0.94	8830					88.3
PCB-184	8.34e+06	1.06	y	40:04	1.39	3710		-	-	*	
PCB-179	1.90e+05	1.12	y	40:50	1.31	90.3		-	-	*	
PCB-176	4.98e+04	1.14	y	41:14	1.28	24.2		-	-	*	
PCB-186	*	*	n	NotFnd	1.28	*		360	368	3.79	
PCB-178	4.71e+04	0.97	y	42:19	0.89	33.1		-	-	*	
PCB-175	*	*	n	NotFnd	0.93	*		360	368	5.19	
PCB-187	3.38e+05	1.12	y	42:47	1.02	207		-	-	*	Co-elute PCB 182
PCB-182	3.38e+05	1.12	y	42:47	1.02	207		-	-	*	Co-elute PCB 187
PCB-183	1.59e+05	1.06	y	43:06	1.02	96.6		-	-	*	
PCB-185	3.10e+04	1.11	y	43:42	0.91	21.1		-	-	*	
PCB-174	2.06e+05	1.10	y	44:04	0.94	136		-	-	*	
PCB-181	*	*	n	NotFnd	0.87	*		360	368	5.54	
PCB-177	1.22e+05	0.98	y	44:20	0.80	94.7		-	-	*	
PCB-171	5.28e+04	0.94	y	44:37	0.89	36.8		-	-	*	
PCB-173	*	*	n	NotFnd	0.79	*		360	368	6.11	
PCB-172	1.26e+05	1.02	y	45:23	0.80	98.1		-	-	*	
PCB-192	4.53e+06	1.05	y	45:36	1.09	2590		-	-	*	
PCB-180	4.30e+05	1.17	y	45:46	1.06	251		-	-	*	
PCB-193	3.63e+04	1.17	y	45:57	1.16	19.3	J	-	-	*	
PCB-191	*	*	n	NotFnd	1.11	*		360	368	4.37	
PCB-170	1.45e+05	1.01	y	47:05	0.77	117		-	-	*	
PCB-190	4.58e+04	1.12	y	47:15	1.07	26.7		-	-	*	
PCB-189	*	*	n	NotFnd	1.23	*		360	368	4.40	
13C-PCB-189	1.48e+07	1.08	y	48:27	0.70	10000					100
PCB-202	*	*	n	NotFnd	1.05	*		411	372	7.50	
PCB-201	*	*	n	NotFnd	1.05	*		411	372	7.44	
PCB-204	5.87e+06	0.91	y	45:23	1.05	5180		-	-	*	
PCB-197	5.46e+04	0.83	y	45:39	1.09	46.5		-	-	*	
PCB-200	*	*	n	NotFnd	1.01	*		411	372	7.76	
PCB-198	*	*	n	NotFnd	0.70	*		411	372	11.2	
PCB-199	3.74e+04	0.85	y	47:43	0.70	49.7		-	-	*	
PCB-203	4.22e+04	0.88	y	47:58	0.78	50.3		-	-	*	Co-elute PCB 196
PCB-196	4.22e+04	0.88	y	47:58	0.78	50.3		-	-	*	Co-elute PCB 203
13C-PCB-202	1.08e+07	0.93	y	44:45	0.57	9040					90.4
13C-PCB-178	1.28e+07	1.08	y	42:17	0.60	10100					101
13C-PCB-138	2.11e+07	1.26	y	41:31	-	48.4					
PCB-195	2.65e+04	0.94	y	49:06	0.74	16.8	J	-	-	*	
PCB-194	5.74e+04	0.94	y	49:57	0.82	32.8		-	-	*	
PCB-205	*	*	n	NotFnd	1.07	*		600	608	4.57	
13C-PCB-205	2.13e+07	0.90	y	50:11	1.27	9450					94.5
PCB-208	*	*	n	NotFnd	1.03	*		596	552	5.53	
13C-PCB-208	1.76e+07	0.80	y	49:12	1.14	8660					86.6
PCB-207	4.48e+04	1.24	y	49:30	1.15	25.8		-	-	*	
PCB-206	*	*	n	NotFnd	1.04	*		596	552	8.41	
13C-PCB-206	1.27e+07	0.81	y	51:27	0.75	9490					94.9
PCB-209	4.59e+04	1.25	y	52:45	1.16	26.3		-	-	*	
13C-PCB-209	1.51e+07	1.21	y	52:44	0.93	9180					91.8
13C-PCB-194	1.78e+07	0.92	y	49:56	-	47.7					

Analyst: B Date: 9/20/16

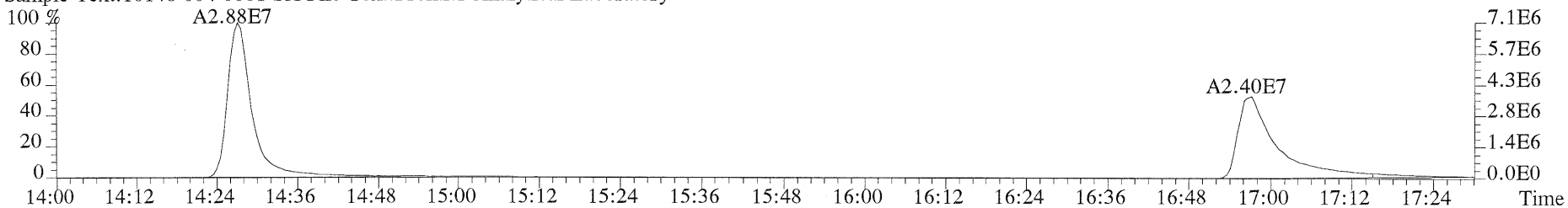
File:19SEP16Z #1-548 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



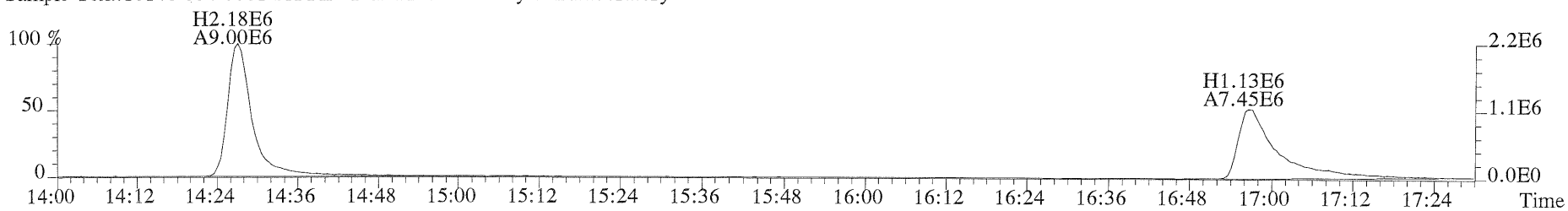
File:19SEP16Z #1-548 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



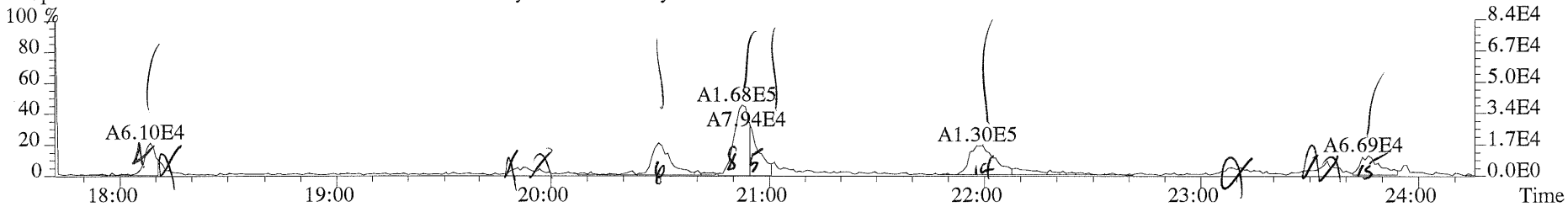
File:19SEP16Z #1-548 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



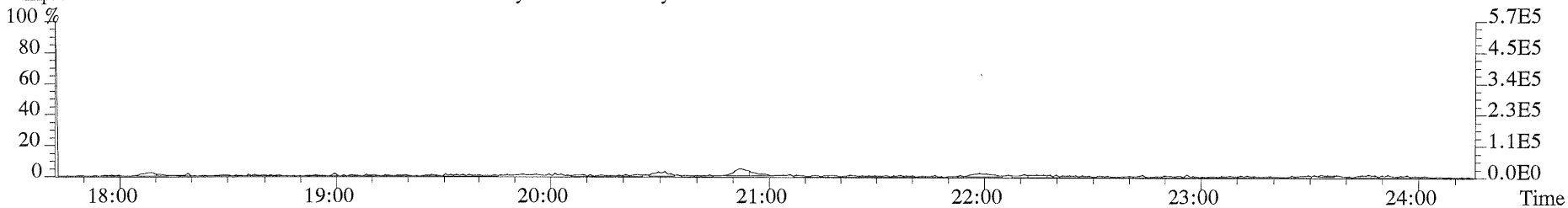
File:19SEP16Z #1-548 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



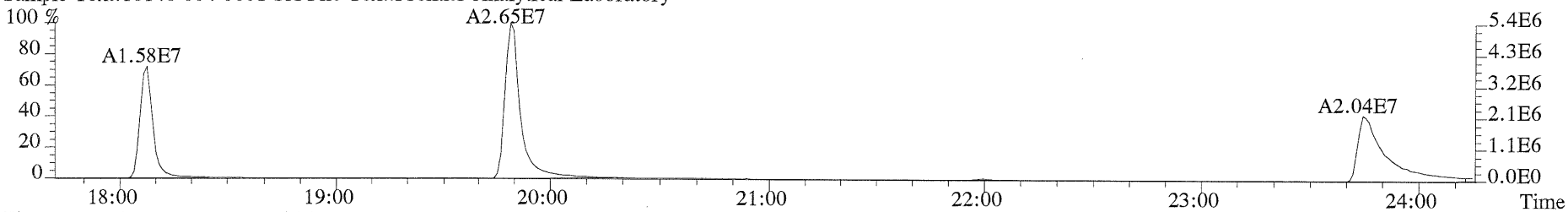
File:19SEP16Z #1-509 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



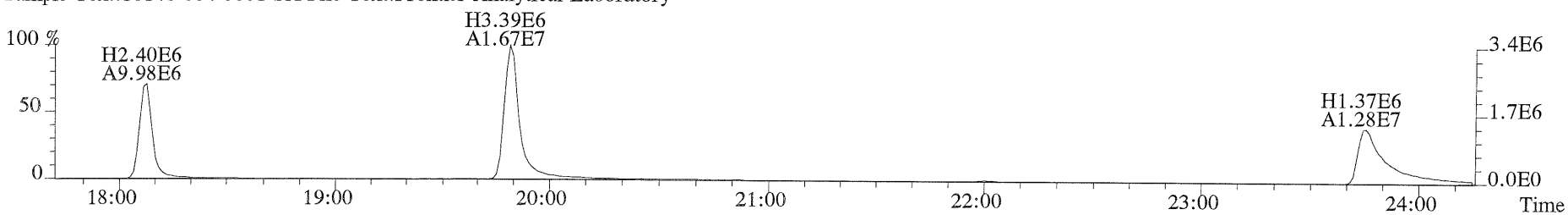
File:19SEP16Z #1-509 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



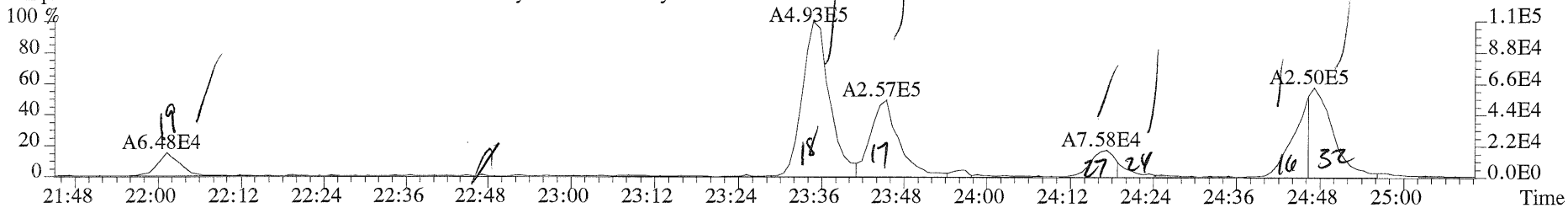
File:19SEP16Z #1-509 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



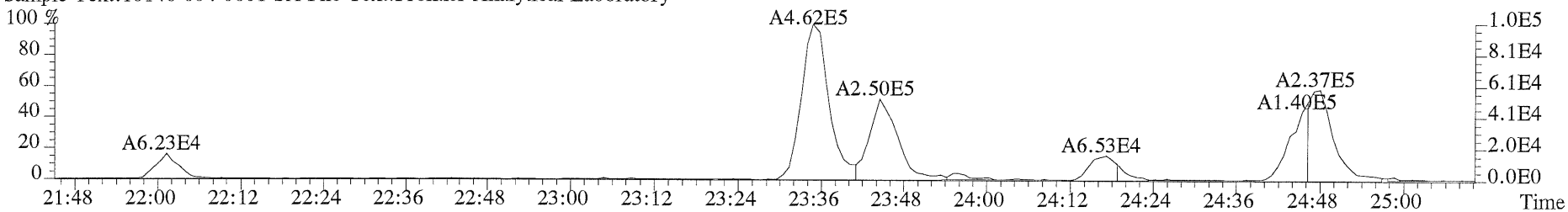
File:19SEP16Z #1-509 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



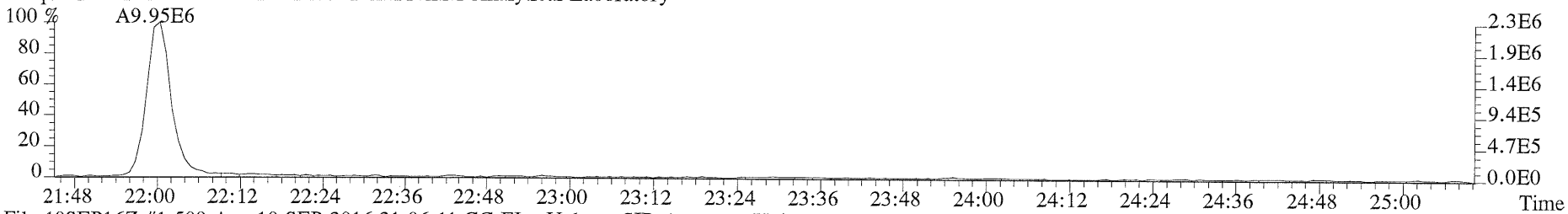
File:19SEP16Z #1-509 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



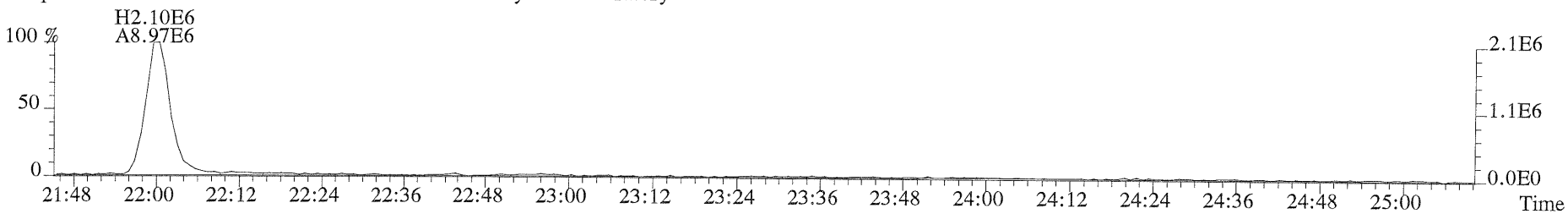
File:19SEP16Z #1-509 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



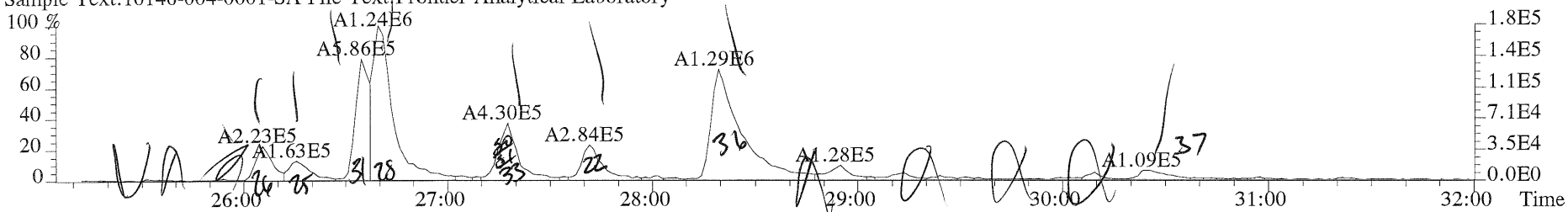
File:19SEP16Z #1-509 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



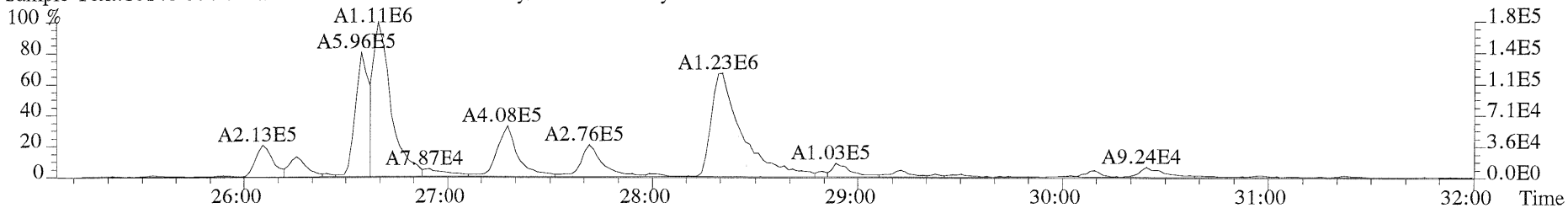
File:19SEP16Z #1-509 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



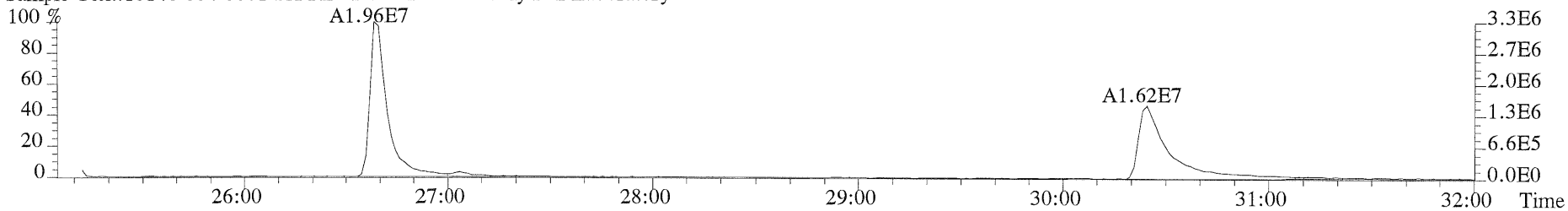
File:19SEP16Z #1-403 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



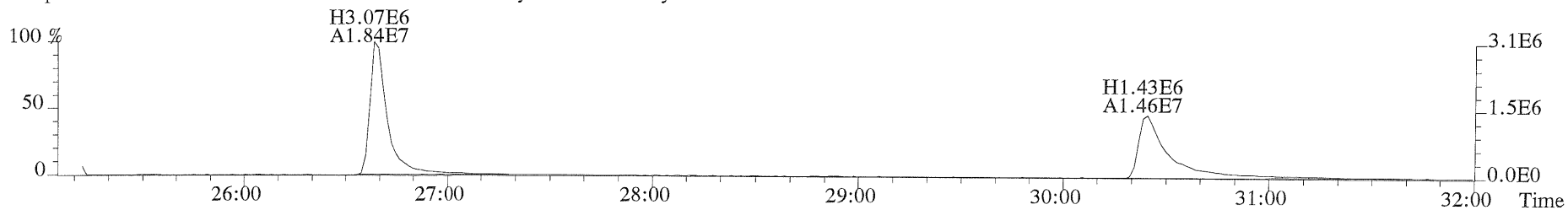
File:19SEP16Z #1-403 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



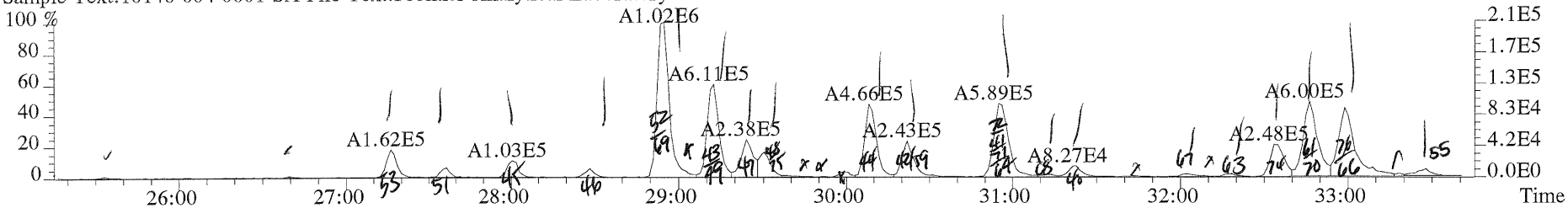
File:19SEP16Z #1-403 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



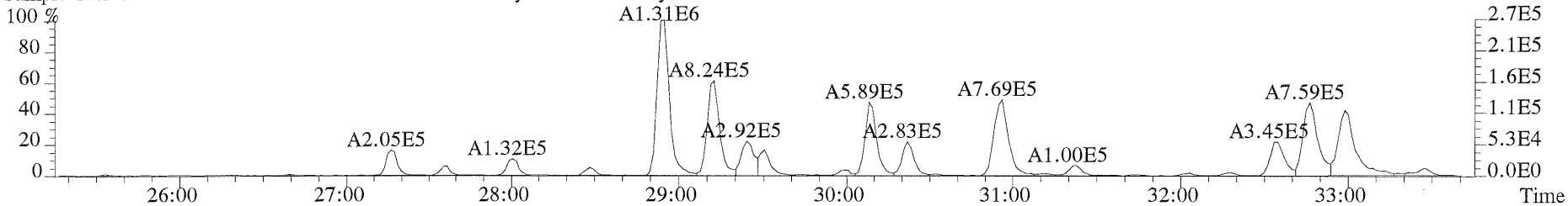
File:19SEP16Z #1-403 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



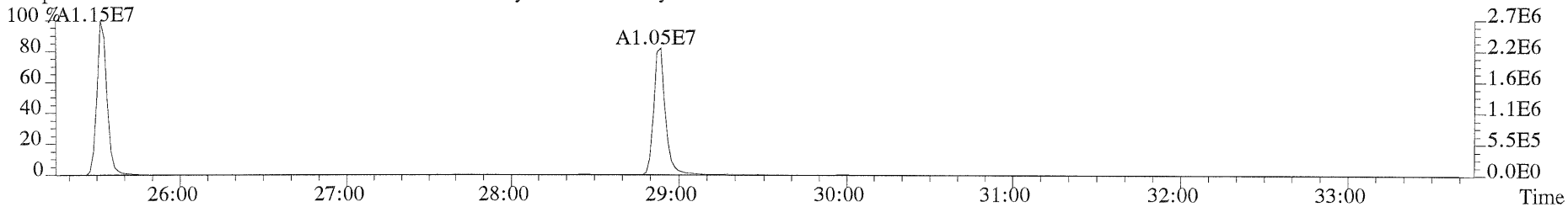
File:19SEP16Z #1-403 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



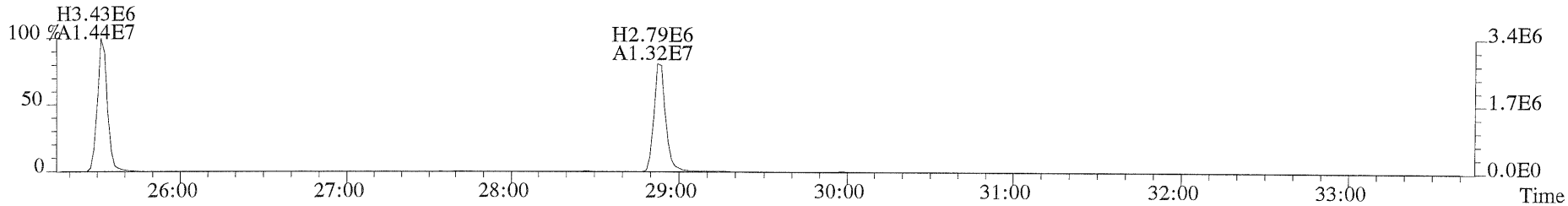
File:19SEP16Z #1-403 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



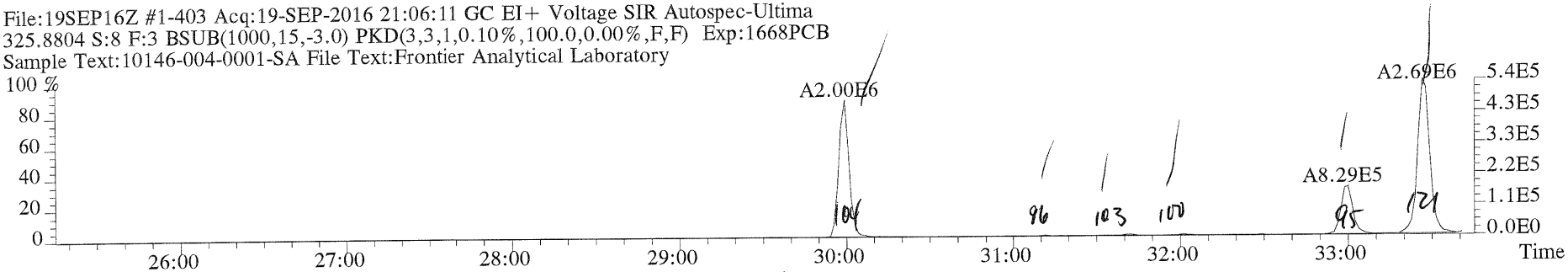
File:19SEP16Z #1-403 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



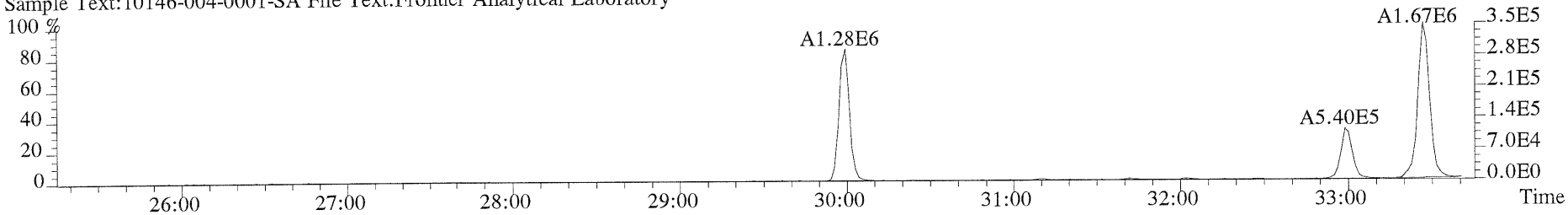
File:19SEP16Z #1-403 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



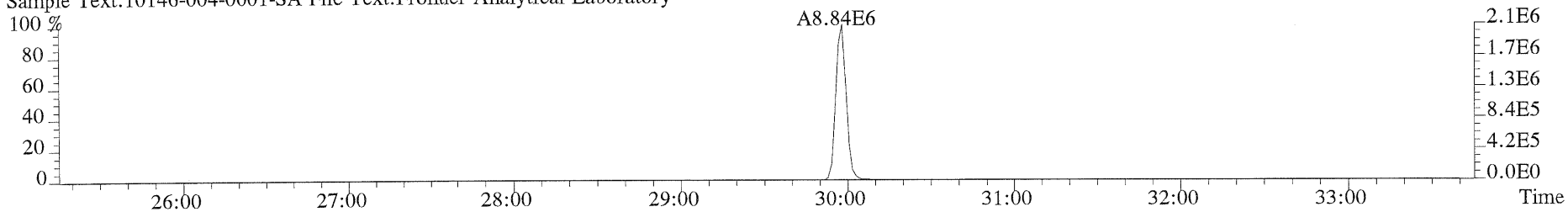
File:19SEP16Z #1-403 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



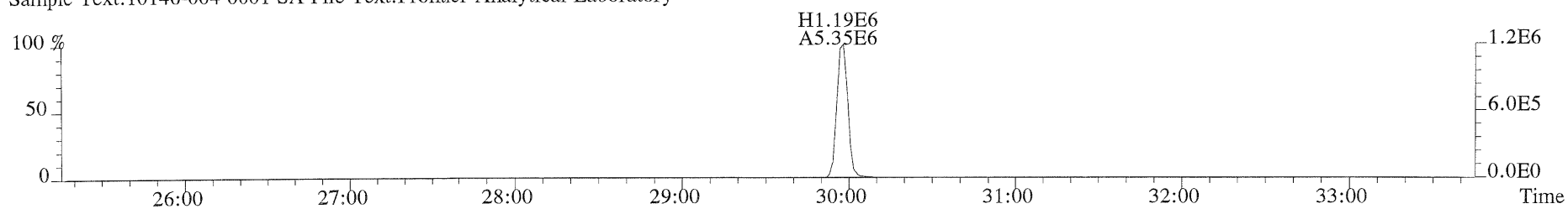
File:19SEP16Z #1-403 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



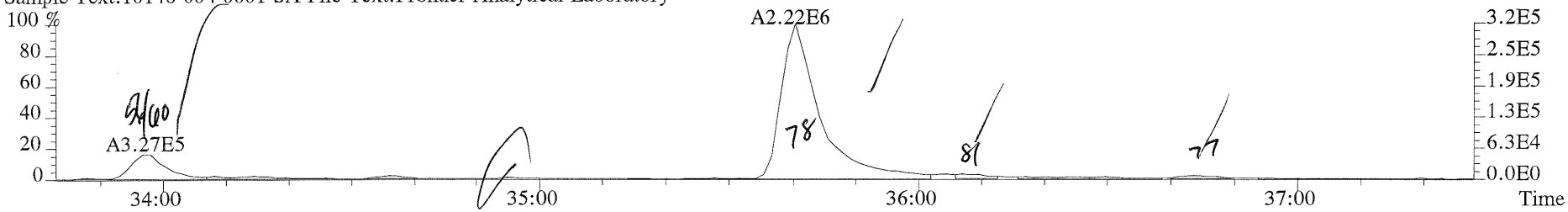
File:19SEP16Z #1-403 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



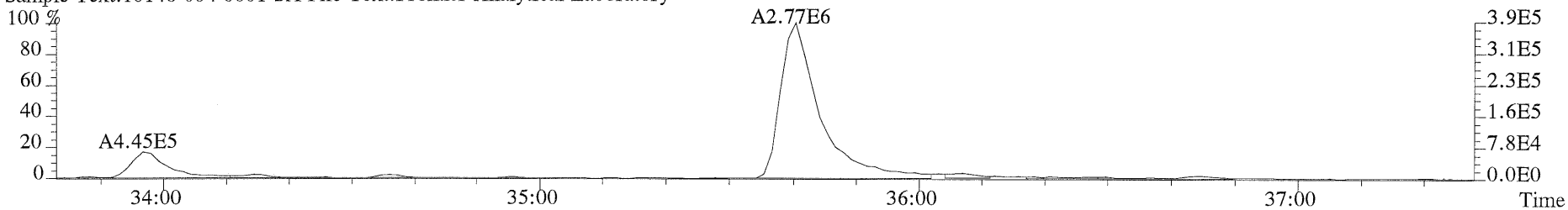
File:19SEP16Z #1-403 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



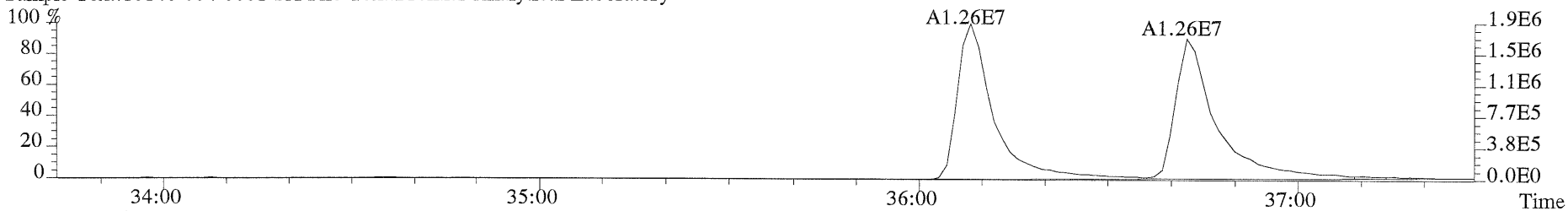
File:19SEP16Z #1-179 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



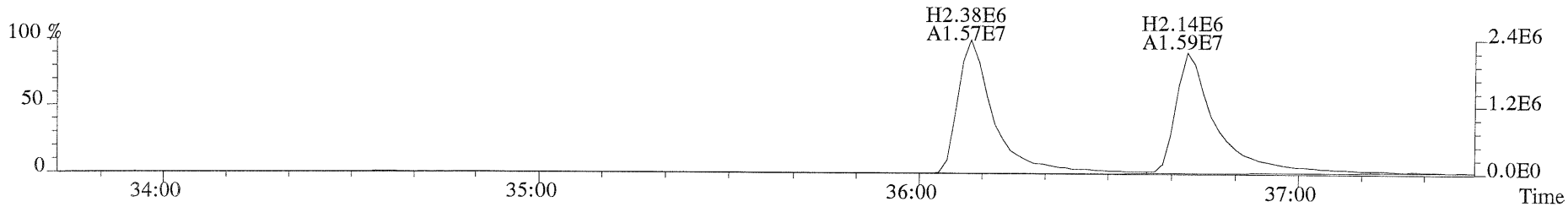
File:19SEP16Z #1-179 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



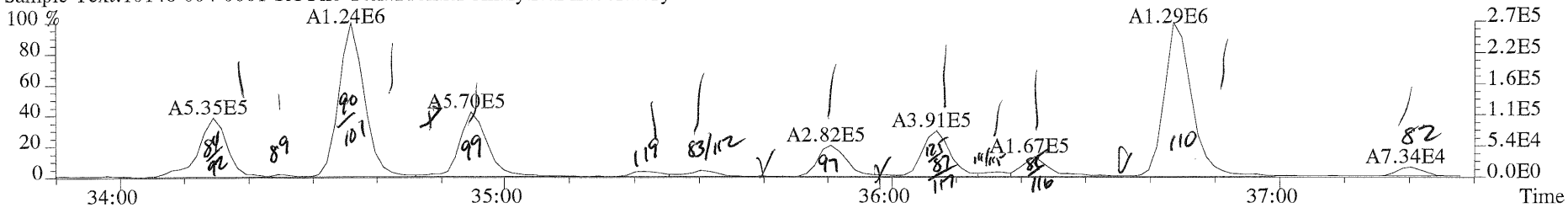
File:19SEP16Z #1-179 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



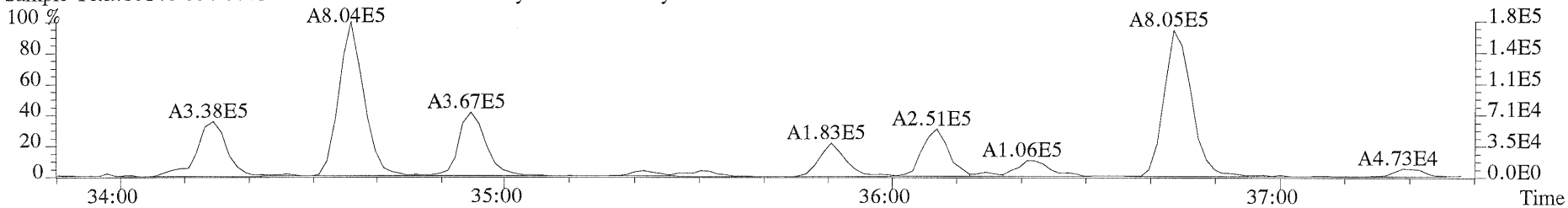
File:19SEP16Z #1-179 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



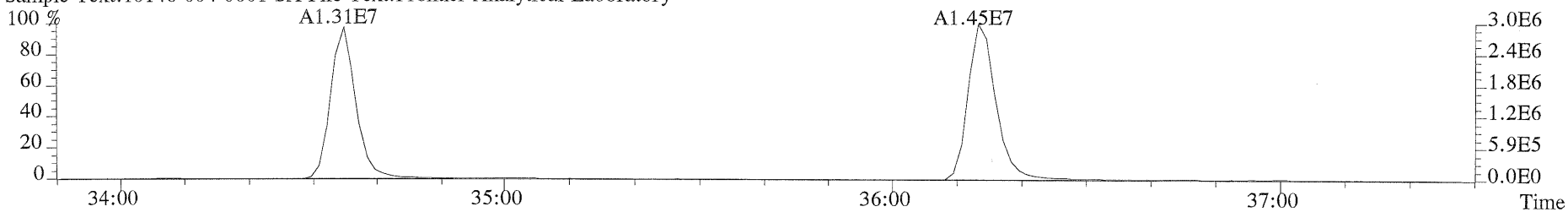
File:19SEP16Z #1-179 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



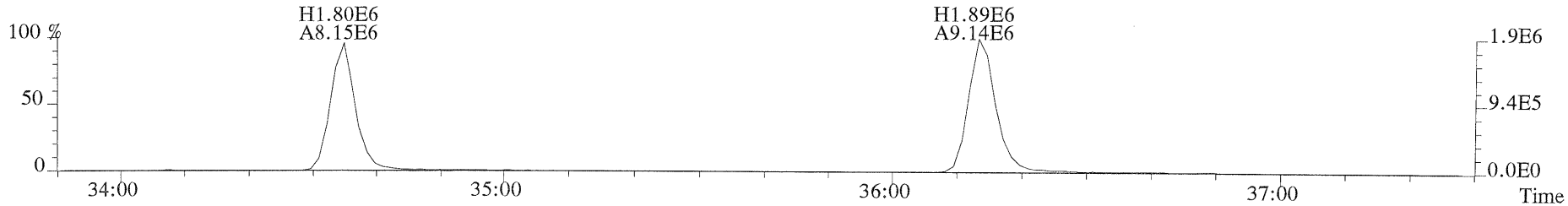
File:19SEP16Z #1-179 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



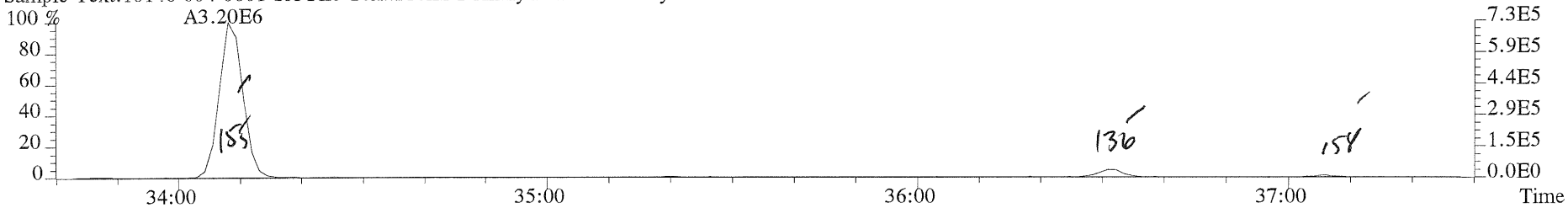
File:19SEP16Z #1-179 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



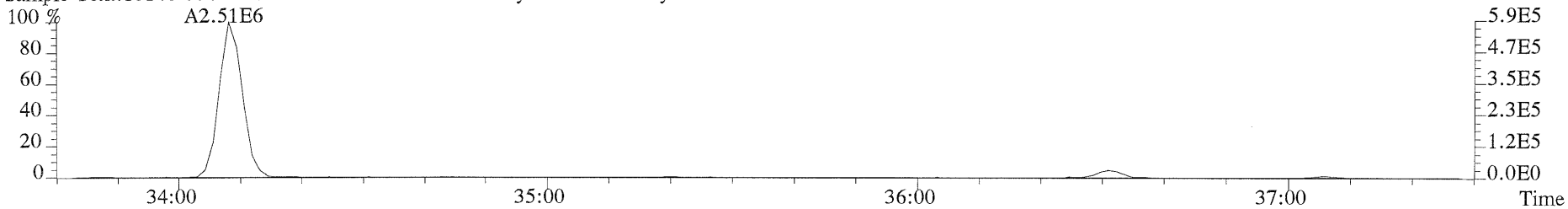
File:19SEP16Z #1-179 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



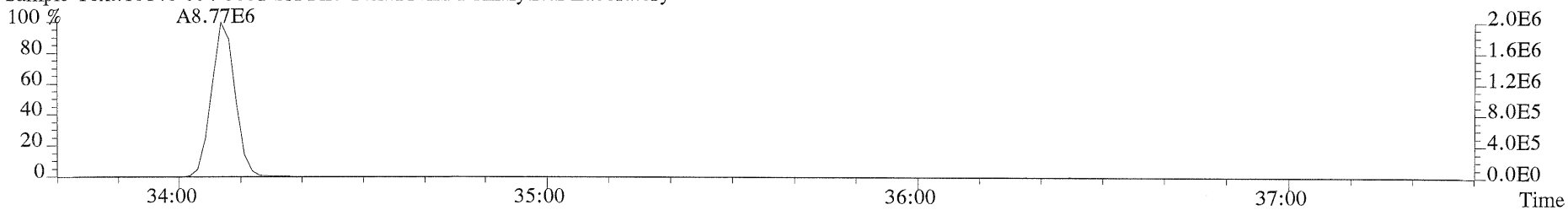
File:19SEP16Z #1-179 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:19-SEP-2016 21:06:11 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:10146-004-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



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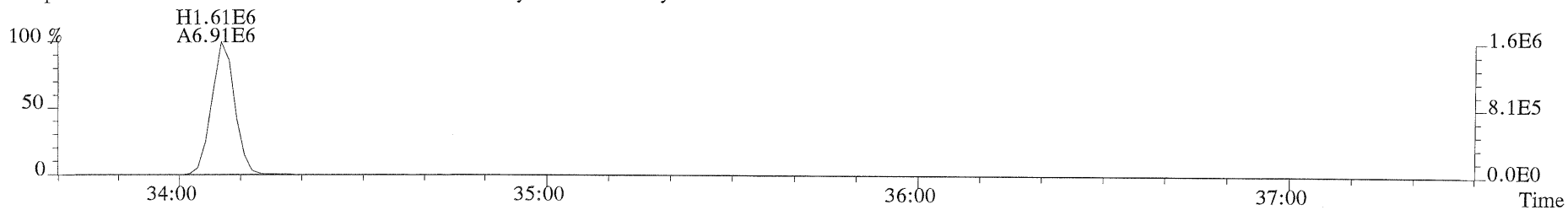
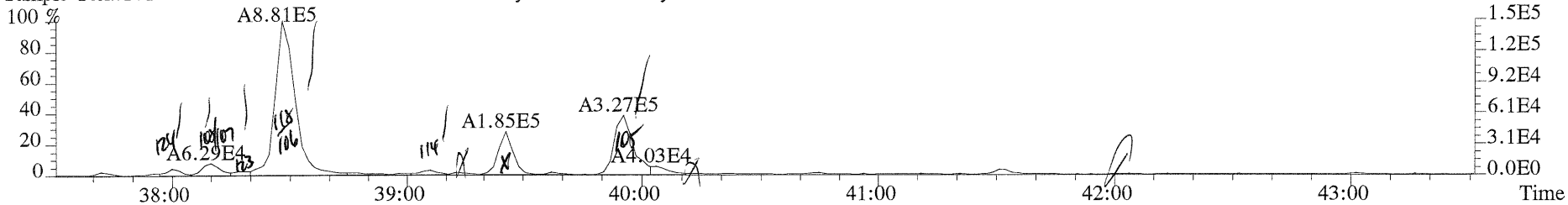
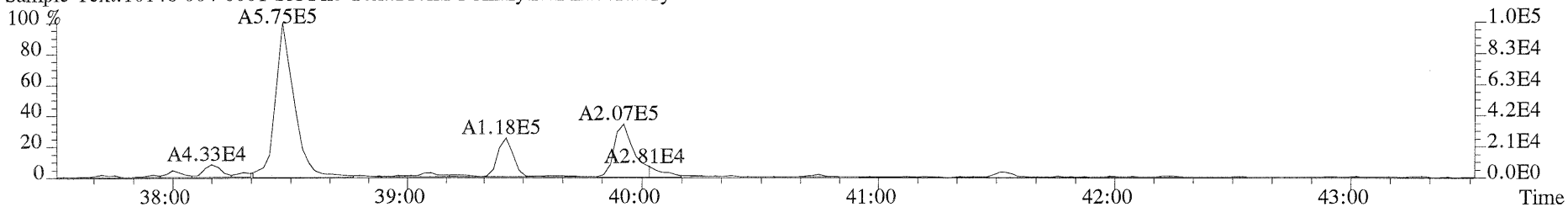
373.8788 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



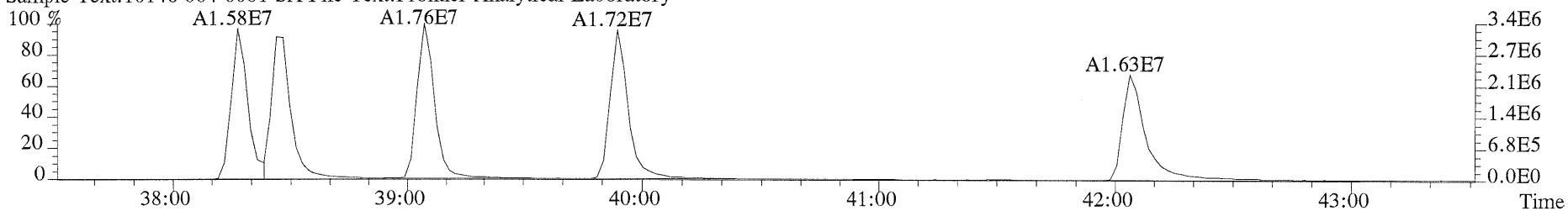
File:19SEP16Z #1-411 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



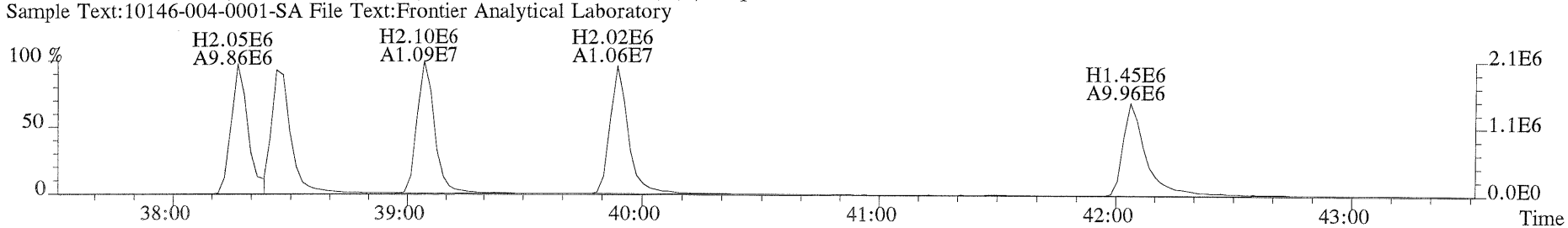
File:19SEP16Z #1-411 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



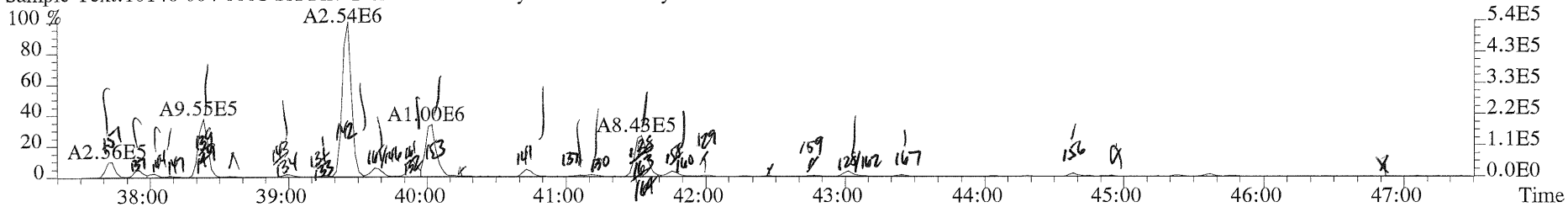
File:19SEP16Z #1-411 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



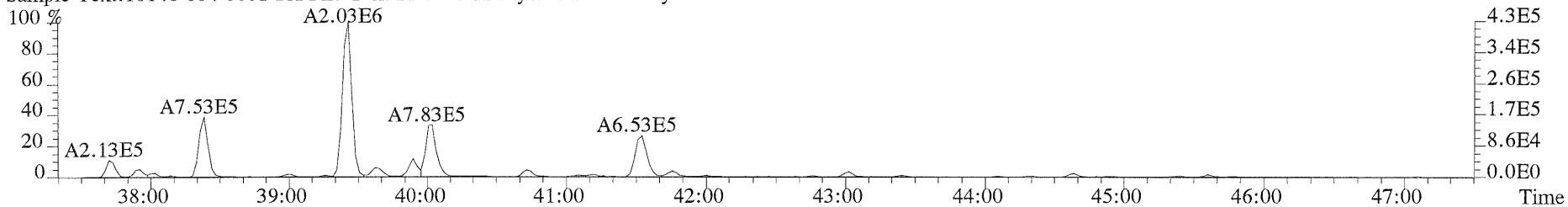
File:19SEP16Z #1-411 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



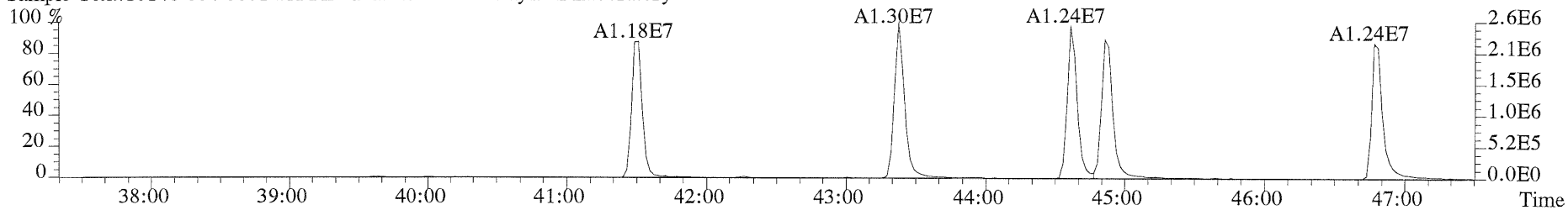
File:19SEP16Z #1-411 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



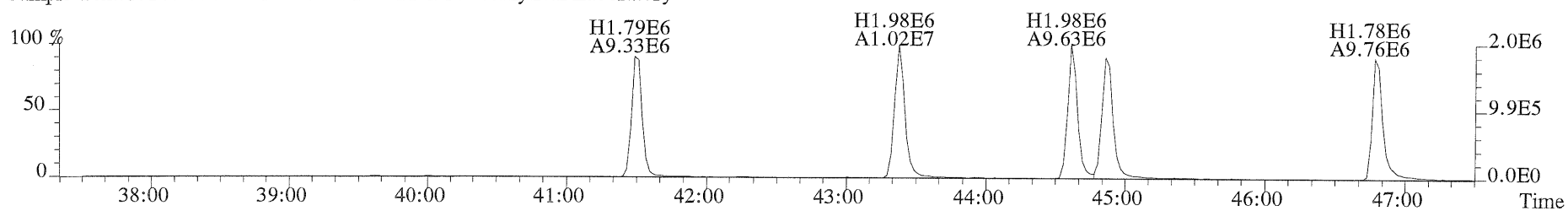
File:19SEP16Z #1-411 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



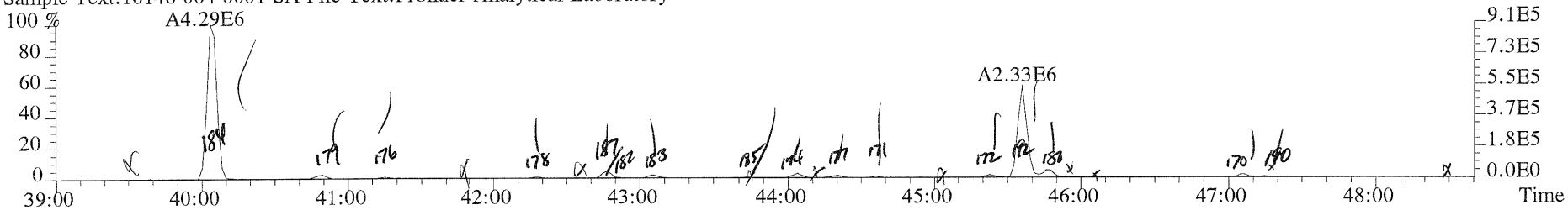
File:19SEP16Z #1-411 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



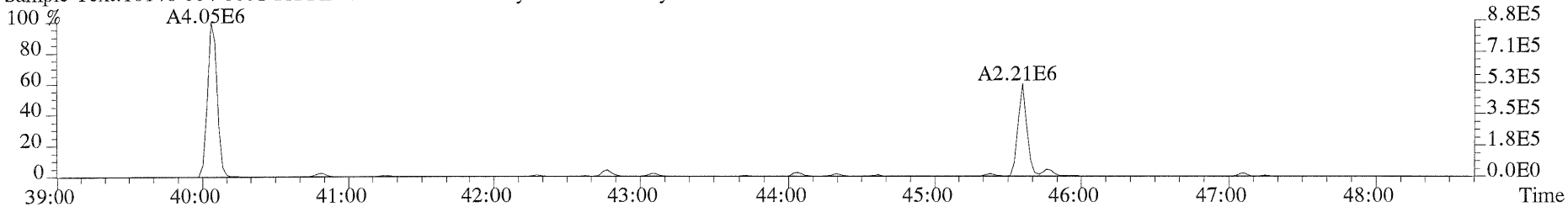
File:19SEP16Z #1-411 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



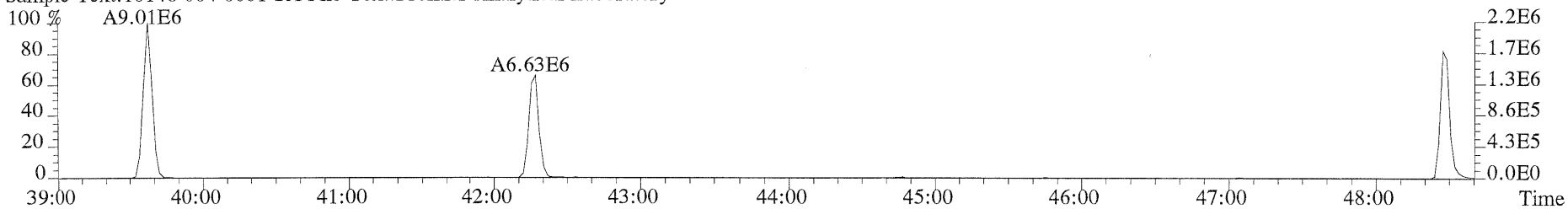
File:19SEP16Z #1-411 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



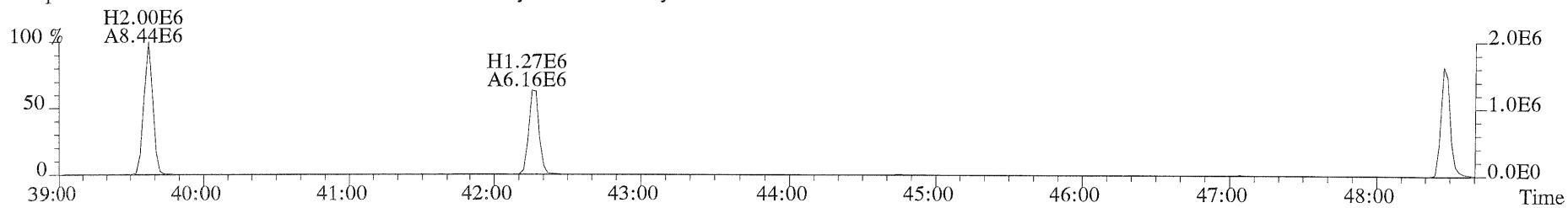
File:19SEP16Z #1-411 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



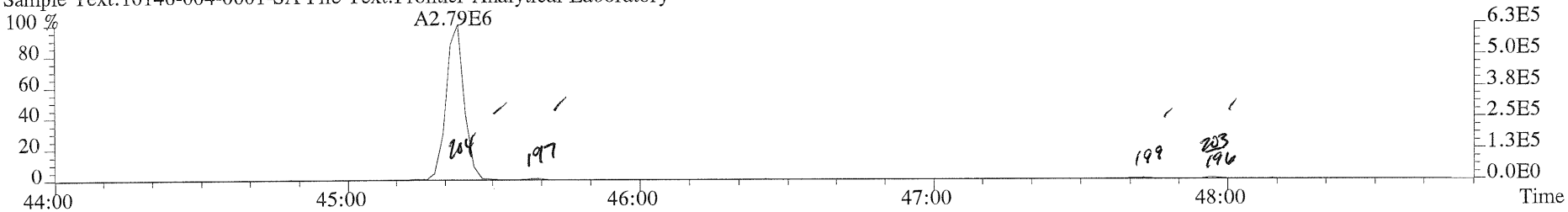
File:19SEP16Z #1-411 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



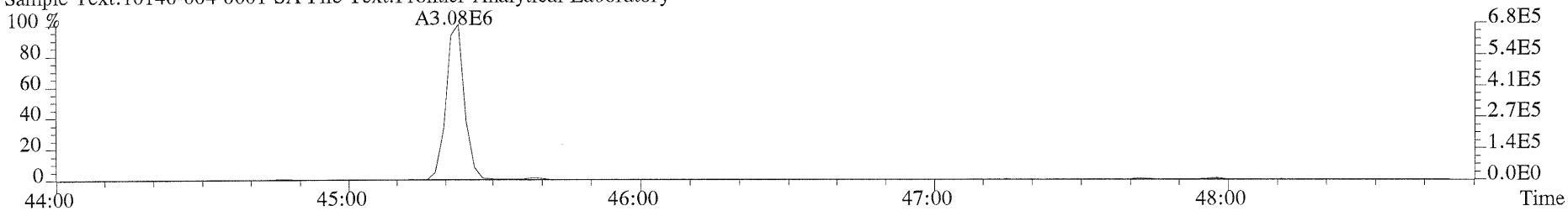
File:19SEP16Z #1-411 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



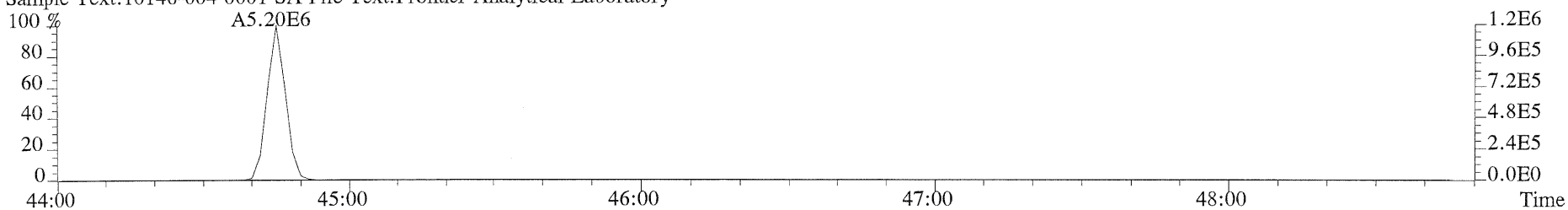
File:19SEP16Z #1-411 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



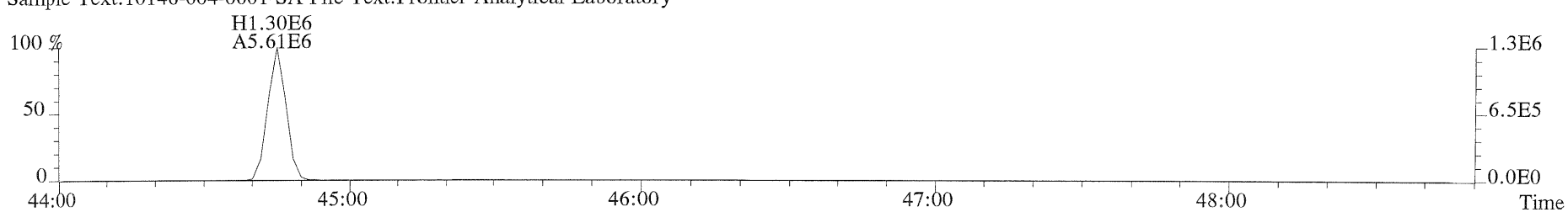
File:19SEP16Z #1-411 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



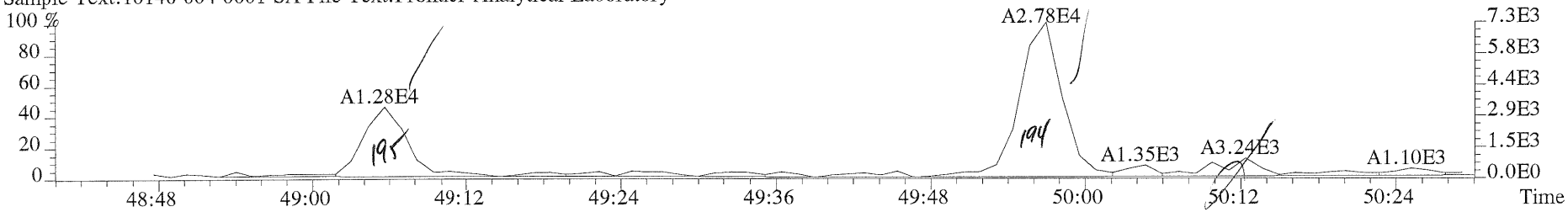
File:19SEP16Z #1-411 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



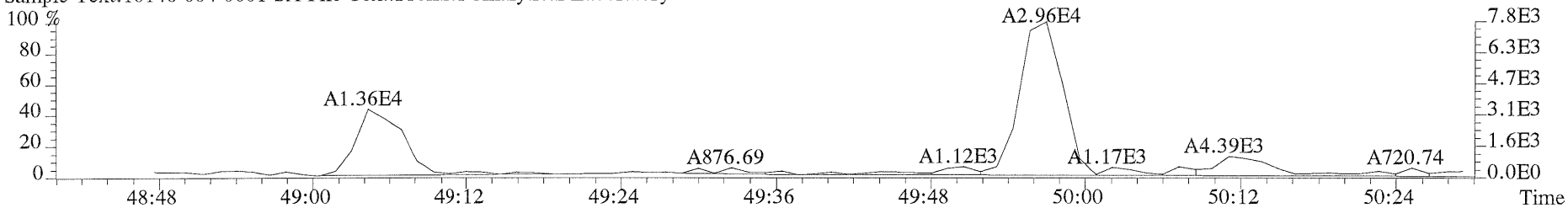
File:19SEP16Z #1-411 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



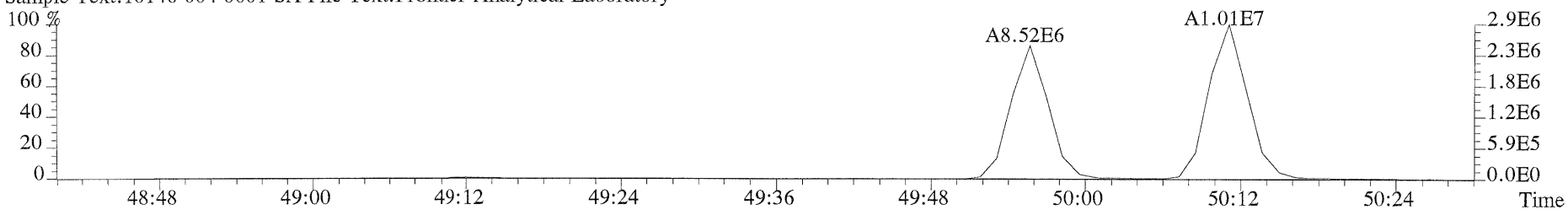
File:19SEP16Z #1-221 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



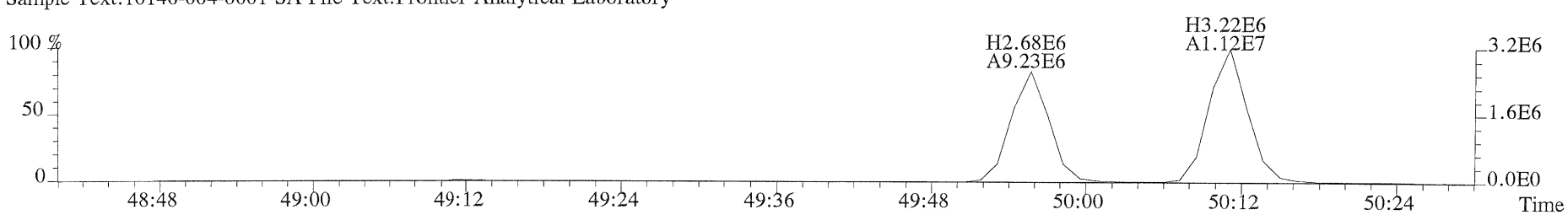
File:19SEP16Z #1-221 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



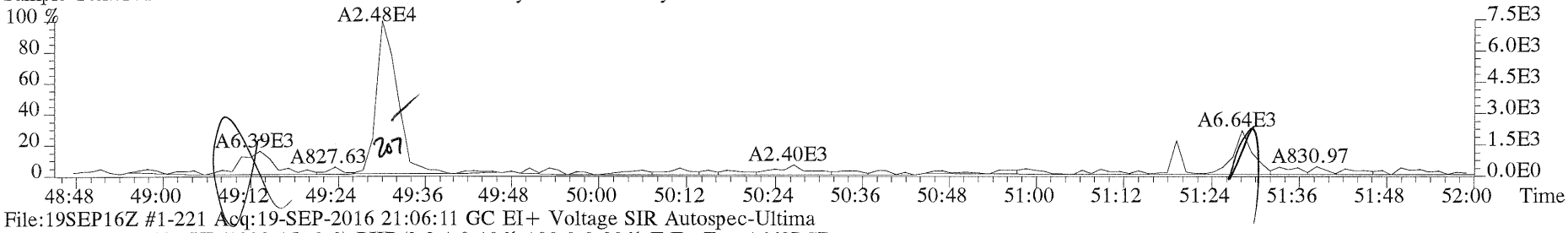
File:19SEP16Z #1-221 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



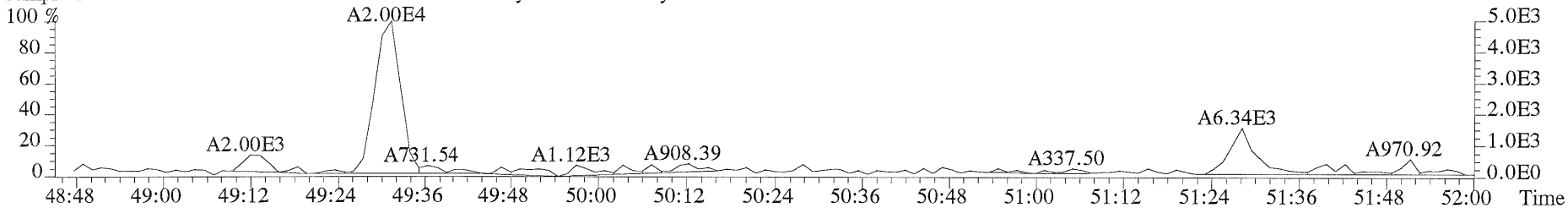
File:19SEP16Z #1-221 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



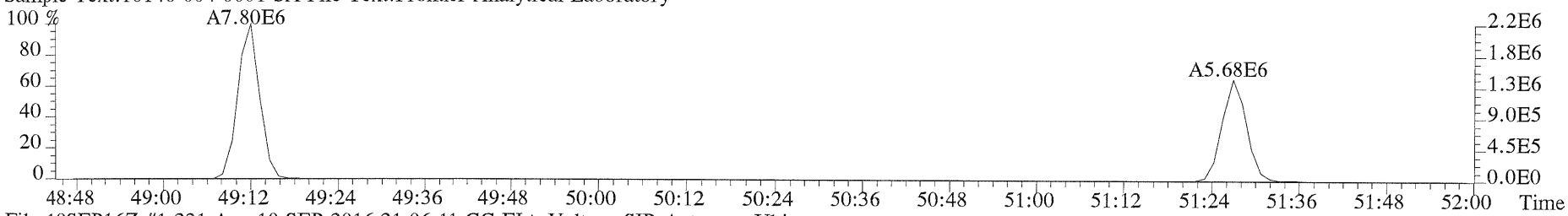
File:19SEP16Z #1-221 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



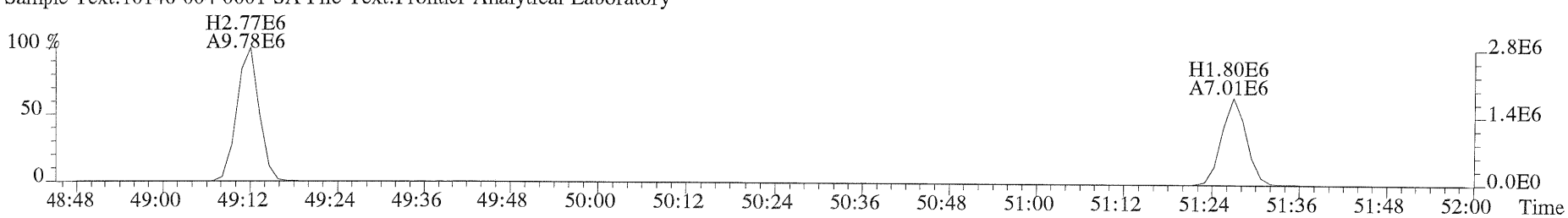
File:19SEP16Z #1-221 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



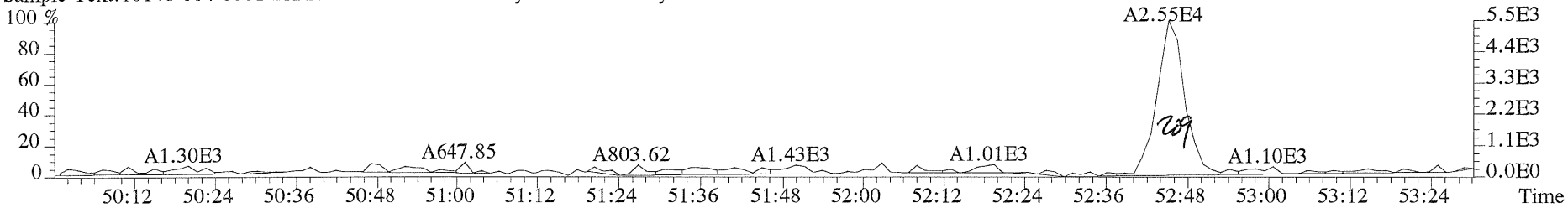
File:19SEP16Z #1-221 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



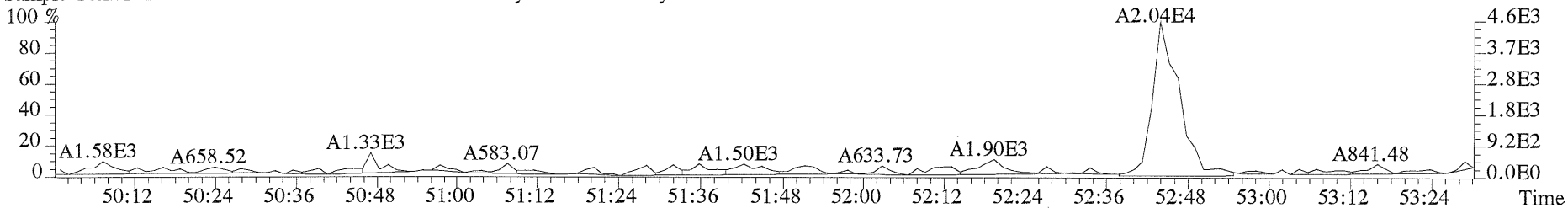
File:19SEP16Z #1-221 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



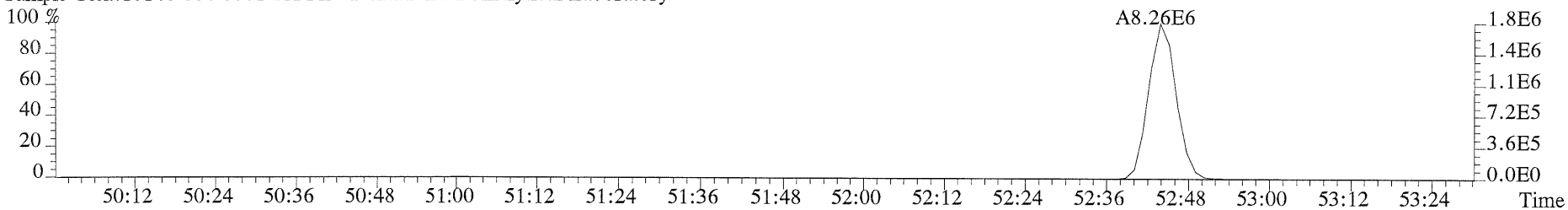
File:19SEP16Z #1-221 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



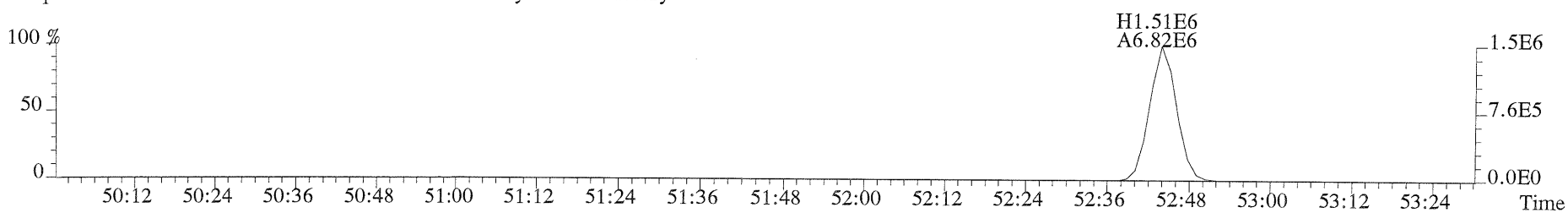
File:19SEP16Z #1-221 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 21:06:11 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-004-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10146-005-0001-SA Filename: 21SEP16Z Sam:4 Acquired: 21-SEP-16 18:52:13 ICal: DAILY209FAL4-9-21-16
Client ID: LDW-BA-SC-ENR-CB-S010 ConCal: ST092116Z1 EndCal: ST092116Z2
Results: 10146-2 GC Column: DB1 Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	0.97	*		1370	1020	6.92	
13C-PCB-1	3.72e+07	3.10	y	14:31	1.18	9640					96.4
PCB-2	*	*	n	NotFnd	0.80	*		1050	898	9.73	
PCB-3	*	*	n	NotFnd	1.06	*		1050	898	9.95	
13C-PCB-3	3.22e+07	3.29	y	17:01	1.07	9140					91.4
PCB-4	9.74e+04	1.39	y	18:13	1.17	41.1		-	-	*	
PCB-10	*	*	n	NotFnd	1.26	*		1010	1220	13.9	
13C-PCB-4	2.04e+07	1.58	y	18:12	0.63	9770					97.7
PCB-9	*	*	n	NotFnd	1.13	*		1010	1220	15.5	
PCB-7	*	*	n	NotFnd	1.45	*		1010	1220	12.0	
PCB-6	2.28e+05	1.34	y	20:33	1.35	73.2		-	-	*	
PCB-8	2.34e+05	1.34	y	20:57	1.36	74.3		-	-	*	
PCB-5	1.61e+05	1.53	y	20:59	1.21	57.7		-	-	*	
PCB-14	3.02e+05	1.44	y	22:01	1.31	99.7		-	-	*	
PCB-11	*	*	n	NotFnd	1.12	*		1010	1220	15.5	
PCB-13	*	*	n	NotFnd	1.02	*		1010	1220	17.1	
PCB-12	*	*	n	NotFnd	1.24	*		1010	1220	14.1	
PCB-15	*	*	n	NotFnd	1.23	*		1010	1220	18.0	
13C-PCB-15	2.59e+07	1.60	y	23:50	0.89	8840					88.4
PCB-19	1.53e+05	1.12	y	22:06	1.05	65.6		-	-	*	
PCB-30	*	*	n	NotFnd	1.46	*		1980	1070	10.1	
PCB-18	1.03e+06	0.98	y	23:39	0.98	471		-	-	*	
PCB-17	5.48e+05	1.09	y	23:49	1.11	222		-	-	*	
PCB-27	1.07e+05	1.07	y	24:21	1.36	35.5		-	-	*	
PCB-24	8.89e+04	1.12	y	24:22	1.45	27.7		-	-	*	
PCB-16	2.97e+05	1.07	y	24:50	1.15	116		-	-	*	
PCB-32	4.90e+05	1.08	y	24:52	1.31	169		-	-	*	
13C-PCB-19	2.22e+07	1.11	y	22:05	0.67	10000					100
13C-PCB-9	3.29e+07	1.61	y	19:53	-	34.9					
PCB-34	*	*	n	NotFnd	1.30	*		1020	690	17.6	
PCB-23	*	*	n	NotFnd	1.61	*		1020	690	14.2	
PCB-29	*	*	n	NotFnd	1.36	*		1020	690	16.8	
PCB-26	3.16e+05	1.12	y	26:11	1.47	107		-	-	*	
PCB-25	2.35e+05	1.00	y	26:21	1.79	65.8		-	-	*	
PCB-31	7.86e+05	1.02	y	26:40	1.39	284		-	-	*	
PCB-28	1.75e+06	1.09	y	26:45	1.84	475		-	-	*	
PCB-20	6.58e+05	1.12	y	27:21	1.52	217		-	-	*	Co-elute PCB 21/33
PCB-21	6.58e+05	1.12	y	27:21	1.52	217		-	-	*	Co-elute PCB 20/33
PCB-33	6.58e+05	1.12	y	27:21	1.52	217		-	-	*	Co-elute PCB 20/21
PCB-22	4.07e+05	1.08	y	27:45	1.45	141		-	-	*	
PCB-36	2.09e+06	1.00	y	28:23	1.27	824		-	-	*	
PCB-39	*	*	n	NotFnd	1.32	*		1020	690	17.4	
PCB-38	*	*	n	NotFnd	1.29	*		1020	690	17.8	
PCB-35	*	*	n	NotFnd	1.25	*		1020	690	18.3	
PCB-37	1.68e+05	0.99	y	30:32	1.35	62.4		-	-	*	
13C-PCB-37	2.00e+07	1.15	y	30:28	0.84	10200					102

PCB-54	*	*	n	NotFnd	1.03	*		1460	1480	11.9	
PCB-50	*	*	n	NotFnd	0.76	*		1460	1480	16.1	
PCB-53	3.86e+05	0.83	y	27:20	0.77	203		-	-	*	
PCB-51	1.37e+05	0.75	y	27:40	0.77	71.8		-	-	*	
PCB-45	2.52e+05	0.74	y	28:06	0.68	150		-	-	*	
PCB-46	1.00e+05	0.87	y	28:32	0.63	64.6		-	-	*	
PCB-52	2.31e+06	0.78	y	28:59	0.90	1040		-	-	*	Co-elute PCB 69
PCB-69	2.31e+06	0.78	y	28:59	0.90	1040		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	0.91	*		1460	1480	13.5	
PCB-43	1.41e+06	0.78	y	29:16	0.72	795		-	-	*	Co-elute PCB 49
PCB-49	1.41e+06	0.78	y	29:16	0.72	795		-	-	*	Co-elute PCB 43
PCB-47	5.01e+05	0.74	y	29:29	0.85	236		-	-	*	
PCB-48	4.08e+05	0.75	y	29:34	0.90	182		-	-	*	Co-elute PCB 75
PCB-75	4.08e+05	0.75	y	29:34	0.90	182		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.95	*		1460	1480	12.9	
PCB-62	*	*	n	NotFnd	0.90	*		1460	1480	13.6	
PCB-44	1.06e+06	0.74	y	30:13	0.64	666		-	-	*	
PCB-42	5.53e+05	0.78	y	30:26	0.84	264		-	-	*	Co-elute PCB 59
PCB-59	5.53e+05	0.78	y	30:26	0.84	264		-	-	*	Co-elute PCB 42
PCB-72	1.31e+06	0.75	y	31:00	0.91	576		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.31e+06	0.75	y	31:00	0.91	576		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.31e+06	0.75	y	31:00	0.91	576		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.31e+06	0.75	y	31:00	0.91	576		-	-	*	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	0.97	*		1460	1480	12.6	
PCB-40	1.75e+05	0.71	y	31:25	0.58	122		-	-	*	
PCB-57	*	*	n	NotFnd	0.86	*		1460	1480	14.3	
PCB-67	4.68e+04	0.73	y	32:07	0.92	20.5		-	-	*	
PCB-58	*	*	n	NotFnd	0.90	*		1460	1480	13.7	
PCB-63	5.86e+04	0.73	y	32:21	0.94	25.2		-	-	*	
PCB-74	5.52e+05	0.78	y	32:39	0.98	226		-	-	*	
PCB-61	1.23e+06	0.77	y	32:50	0.95	522		-	-	*	Co-elute PCB 70
PCB-70	1.23e+06	0.77	y	32:50	0.95	522		-	-	*	Co-elute PCB 61
PCB-76	1.26e+06	0.78	y	33:03	0.96	528		-	-	*	Co-elute PCB 66
PCB-66	1.26e+06	0.78	y	33:03	0.96	528		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.02	*		1460	1480	11.9	
PCB-55	9.57e+04	0.83	y	33:32	0.91	42.4		-	-	*	
13C-PCB-54	2.48e+07	0.79	y	25:36	1.20	8810					88.1
PCB-104	4.33e+06	1.57	y	30:03	1.09	1830		-	-	*	
PCB-96	4.13e+04	1.51	y	31:15	1.00	19.2	J	-	-	*	
PCB-103	6.96e+04	1.52	y	31:47	0.81	39.7		-	-	*	
PCB-100	5.10e+04	1.43	y	32:06	0.82	28.7		-	-	*	
PCB-94	*	*	n	NotFnd	0.70	*		724	1780	17.0	
PCB-98	*	*	n	NotFnd	0.86	*		724	1780	13.7	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.86	*		724	1780	13.7	Co-elute PCB 98
PCB-95	2.01e+06	1.56	y	33:04	0.75	1250		-	-	*	
PCB-93	*	*	n	NotFnd	0.71	*		724	1780	16.6	
PCB-88	4.29e+05	1.50	y	33:28	0.74	269		-	-	*	Co-elute PCB 91
PCB-91	4.29e+05	1.50	y	33:28	0.74	269		-	-	*	Co-elute PCB 88
PCB-121	5.55e+06	1.55	y	33:32	0.98	2630		-	-	*	
13C-PCB-104	2.16e+07	1.57	y	30:02	0.99	9250					92.5
13C-PCB-28	2.36e+07	1.13	y	26:43	1.11	9040					90.4
13C-PCB-52	2.35e+07	0.80	y	28:57	-	37.9					

PCB-56	5.34e+05	0.75	y	34:02	1.13	235		-	-	*	Co-elute PCB 60
PCB-60	5.34e+05	0.75	y	34:02	1.13	235		-	-	*	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.06	*		960	1010	17.1	
PCB-78	3.93e+06	0.77	y	35:44	0.96	2030		-	-	*	
PCB-81	*	*	n	NotFnd	1.05	*		960	1010	16.0	
13C-PCB-81	2.02e+07	0.79	y	36:12	0.97	9580					95.8
PCB-77	*	*	n	NotFnd	0.98	*		960	1010	19.9	
13C-PCB-77	1.99e+07	0.78	y	36:47	0.98	9360					93.6
PCB-155	7.23e+06	1.28	y	34:13	1.05	2880		-	-	*	
PCB-150	*	*	n	NotFnd	0.95	*		580	688	6.24	
PCB-152	*	*	n	NotFnd	0.94	*		580	688	6.28	
PCB-145	*	*	n	NotFnd	0.92	*		580	688	6.41	
PCB-136	4.35e+05	1.39	y	36:36	0.90	204		-	-	*	
PCB-148	*	*	n	NotFnd	0.73	*		580	688	8.13	
PCB-154	9.56e+04	1.12	y	37:10	0.83	48.1		-	-	*	
13C-PCB-155	2.38e+07	1.28	y	34:12	1.13	9720					97.2
13C-PCB-111	2.49e+07	1.57	y	36:18	1.11	10300					103
13C-PCB-101	2.17e+07	1.60	y	34:38	-	37.8					
PCB-84	8.44e+05	1.52	y	34:18	0.88	474		-	-	*	Co-elute PCB 92
PCB-92	8.44e+05	1.52	y	34:18	0.88	474		-	-	*	Co-elute PCB 84
PCB-89	2.29e+04	1.63	y	34:30	0.84	13.4	J	-	-	*	
PCB-90	2.01e+06	1.49	y	34:40	0.99	1000		-	-	*	Co-elute PCB 101
PCB-101	2.01e+06	1.49	y	34:40	0.99	1000		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.10	*		820	770	9.41	
PCB-99	8.70e+05	1.51	y	34:59	1.07	400		-	-	*	
PCB-119	8.05e+04	1.45	y	35:25	1.18	33.6		-	-	*	
PCB-83	8.34e+04	1.63	y	35:35	1.00	41.2		-	-	*	Co-elute PCB 112
PCB-112	8.34e+04	1.63	y	35:35	1.00	41.2		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.18	*		820	770	8.79	
PCB-97	4.52e+05	1.46	y	35:54	1.04	213		-	-	*	
PCB-86	*	*	n	NotFnd	0.96	*		820	770	10.8	
PCB-125	6.15e+05	1.60	y	36:11	1.06	287		-	-	*	Co-elute PCB 87/117
PCB-87	6.15e+05	1.60	y	36:11	1.06	287		-	-	*	Co-elute PCB 125/117
PCB-117	6.15e+05	1.60	y	36:11	1.06	287		-	-	*	Co-elute PCB 125/87
PCB-111	4.38e+04	1.50	y	36:20	1.40	15.4	J	-	-	*	Co-elute PCB 115
PCB-115	4.38e+04	1.50	y	36:20	1.40	15.4	J	-	-	*	Co-elute PCB 111
PCB-85	2.30e+05	1.46	y	36:26	1.01	112		-	-	*	Co-elute PCB 116
PCB-116	2.30e+05	1.46	y	36:26	1.01	112		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.18	*		820	770	8.76	
PCB-110	1.95e+06	1.56	y	36:49	1.34	717		-	-	*	
PCB-82	1.41e+05	1.50	y	37:25	0.73	95.6		-	-	*	
PCB-124	4.49e+04	1.72	y	38:03	0.98	22.5		-	-	*	
PCB-108	9.13e+04	1.39	y	38:13	1.05	42.8		-	-	*	Co-elute PCB 107
PCB-107	9.13e+04	1.39	y	38:13	1.05	42.8		-	-	*	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.25	*		820	1140	10.4	
13C-PCB-123	1.80e+07	1.59	y	38:22	1.05	8700					87.0
PCB-118	9.69e+05	1.57	y	38:33	0.96	463		-	-	*	Co-elute PCB 106
PCB-106	9.69e+05	1.57	y	38:33	0.96	463		-	-	*	Co-elute PCB 118
13C-PCB-118	2.17e+07	1.58	y	38:31	1.14	9720					97.2
PCB-114	*	*	n	NotFnd	1.04	*		820	1140	12.3	
13C-PCB-114	2.07e+07	1.61	y	39:09	1.08	9780					97.8
PCB-122	*	*	n	NotFnd	1.05	*		820	1140	12.2	
PCB-105	3.72e+05	1.49	y	40:00	1.03	173		-	-	*	
13C-PCB-105	2.08e+07	1.60	y	39:59	1.06	9930					99.3

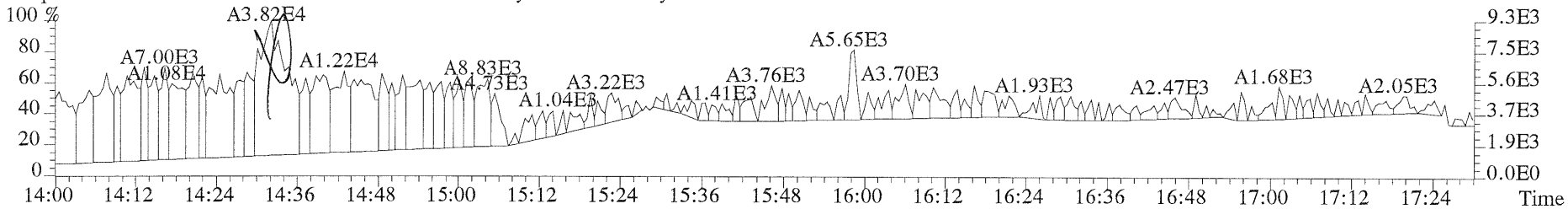
PCB-127	*	*	n	NotFnd	0.95	*	820	1140	13.4		
PCB-126	*	*	n	NotFnd	1.04	*	820	1140	17.7		
13C-PCB-126	1.93e+07	1.57	y	42:09	1.00	9780				97.8	
PCB-151	4.41e+05	1.22	y	37:47	0.82	245	-	-	*		
PCB-135	2.25e+05	1.23	y	37:58	0.73	140	-	-	*		
PCB-144	2.25e+05	1.23	y	37:58	0.96	108	-	-	*		
PCB-147	4.90e+04	1.39	y	38:13	0.86	26.0	-	-	*		
PCB-139	1.47e+06	1.30	y	38:26	0.90	751	-	-	*	Co-elute PCB 149	
PCB-149	1.47e+06	1.30	y	38:26	0.90	751	-	-	*	Co-elute PCB 139	
PCB-140	*	*	n	NotFnd	0.85	*	720	1050	13.1		
PCB-143	8.11e+04	1.41	y	39:04	0.81	46.1	-	-	*	Co-elute PCB 134	
PCB-134	8.11e+04	1.41	y	39:04	0.81	46.1	-	-	*	Co-elute PCB 143	
PCB-131	3.83e+04	1.41	y	39:19	0.82	21.5	-	-	*	Co-elute PCB 133	
PCB-133	3.83e+04	1.41	y	39:19	0.82	21.5	-	-	*	Co-elute PCB 131	
PCB-142	4.25e+06	1.23	y	39:29	0.69	2820	-	-	*		
PCB-165	2.83e+05	1.16	y	39:42	0.95	136	-	-	*	Co-elute PCB 146	
PCB-146	2.83e+05	1.16	y	39:42	0.95	136	-	-	*	Co-elute PCB 165	
PCB-161	4.14e+05	1.29	y	39:57	0.90	211	-	-	*	Co-elute PCB 132	
PCB-132	4.14e+05	1.29	y	39:57	0.90	211	-	-	*	Co-elute PCB 161	
PCB-153	1.65e+06	1.21	y	40:05	0.96	793	-	-	*		
PCB-168	*	*	n	NotFnd	1.05	*	720	1050	10.5		
PCB-141	1.93e+05	1.25	y	40:48	0.81	110	-	-	*		
PCB-137	4.30e+04	1.14	y	41:09	0.77	25.4	-	-	*		
PCB-130	6.85e+04	1.30	y	41:16	0.72	43.8	-	-	*		
PCB-138	1.32e+06	1.21	y	41:36	1.07	568	-	-	*	Co-elute PCB 163/164	
PCB-163	1.32e+06	1.21	y	41:36	1.07	568	-	-	*	Co-elute PCB 138/164	
PCB-164	1.32e+06	1.21	y	41:36	1.07	568	-	-	*	Co-elute PCB 138/163	
PCB-158	1.67e+05	1.12	y	41:49	1.06	72.1	-	-	*	Co-elute PCB 160	
PCB-160	1.67e+05	1.12	y	41:49	1.06	72.1	-	-	*	Co-elute PCB 158	
PCB-129	4.27e+04	1.08	y	42:05	0.68	28.6	-	-	*		
PCB-166	*	*	n	NotFnd	1.00	*	720	1050	11.1		
PCB-159	*	*	n	NotFnd	1.06	*	720	1050	10.5		
PCB-128	1.53e+05	1.11	y	43:05	0.88	79.7	-	-	*	Co-elute PCB 162	
PCB-162	1.53e+05	1.11	y	43:05	0.88	79.7	-	-	*	Co-elute PCB 128	
PCB-167	*	*	n	NotFnd	0.96	*	720	1050	11.4		
13C-PCB-167	2.23e+07	1.22	y	43:26	1.16	9750				97.5	
PCB-156	8.05e+04	1.21	y	44:42	1.01	37.9	-	-	*		
13C-PCB-156	2.10e+07	1.25	y	44:42	1.11	9640				96.4	
PCB-157	*	*	n	NotFnd	1.03	*	720	1050	10.4		
13C-PCB-157	2.31e+07	1.25	y	44:57	1.13	10400				104	
PCB-169	*	*	n	NotFnd	0.96	*	720	1050	12.6		
13C-PCB-169	2.09e+07	1.24	y	46:52	1.05	10200				102	

FAL ID: 10146-005-0001-SA Filename: 21SEP16Z Sam:4 Acquired: 21-SEP-16 18:52:13 ICal: DAILY209FAL4-9-21-16
Client ID: LDW-BA-SC-ENR-CB-S010 ConCal: ST092116Z1 EndCal: ST092116Z2
Results: 10146-2 GC Column: DB1 Amount: 1.000

PCB-188	*	*	n	NotFnd	1.09	*		1690	580	10.4	
13C-PCB-188	2.31e+07	1.05	y	39:42	1.29	9090					90.9
PCB-184	9.95e+06	1.04	y	40:09	1.23	3770		-	-	*	
PCB-179	2.52e+05	1.02	y	40:53	1.17	101		-	-	*	
PCB-176	8.26e+04	1.17	y	41:19	1.14	33.7		-	-	*	
PCB-186	*	*	n	NotFnd	1.14	*		1690	580	9.86	
PCB-178	8.43e+04	1.05	y	42:22	0.82	48.1		-	-	*	
PCB-175	*	*	n	NotFnd	0.85	*		1690	580	13.2	
PCB-187	4.44e+05	1.04	y	42:50	0.93	222		-	-	*	Co-elute PCB 182
PCB-182	4.44e+05	1.04	y	42:50	0.93	222		-	-	*	Co-elute PCB 187
PCB-183	2.06e+05	1.06	y	43:10	0.92	104		-	-	*	
PCB-185	*	*	n	NotFnd	0.84	*		1690	580	13.3	
PCB-174	2.78e+05	1.09	y	44:07	0.87	149		-	-	*	
PCB-181	*	*	n	NotFnd	0.84	*		1690	580	13.5	
PCB-177	1.70e+05	1.00	y	44:24	0.77	103		-	-	*	
PCB-171	8.96e+04	1.02	y	44:40	0.82	50.7		-	-	*	
PCB-173	*	*	n	NotFnd	0.75	*		1690	580	15.1	
PCB-172	1.89e+05	0.98	y	45:26	0.75	118		-	-	*	
PCB-192	5.88e+06	1.04	y	45:39	1.00	2730		-	-	*	
PCB-180	5.54e+05	1.08	y	45:51	0.98	263		-	-	*	
PCB-193	6.59e+04	1.04	y	46:01	1.08	28.3		-	-	*	
PCB-191	*	*	n	NotFnd	1.04	*		1690	580	10.8	
PCB-170	1.71e+05	1.09	y	47:08	0.72	111		-	-	*	
PCB-190	5.51e+04	1.14	y	47:18	0.98	26.3		-	-	*	
PCB-189	*	*	n	NotFnd	1.09	*		1690	580	10.1	
13C-PCB-189	1.99e+07	1.06	y	48:31	1.00	10100					101
PCB-202	3.49e+04	0.98	y	44:50	0.93	18.0	J	-	-	*	
PCB-201	*	*	n	NotFnd	0.93	*		680	632	7.71	
PCB-204	1.02e+07	0.90	y	45:26	0.93	5300		-	-	*	
PCB-197	1.02e+05	0.90	y	45:43	0.96	51.0		-	-	*	
PCB-200	*	*	n	NotFnd	0.91	*		680	632	7.89	
PCB-198	*	*	n	NotFnd	0.61	*		680	632	11.7	
PCB-199	7.73e+04	0.94	y	47:46	0.70	53.0		-	-	*	
PCB-203	8.64e+04	0.89	y	48:01	0.72	57.7		-	-	*	Co-elute PCB 196
PCB-196	8.64e+04	0.89	y	48:01	0.72	57.7		-	-	*	Co-elute PCB 203
13C-PCB-202	2.07e+07	0.92	y	44:48	1.13	9290					92.9
13C-PCB-178	1.79e+07	1.07	y	42:20	0.86	10500					105
13C-PCB-138	1.97e+07	1.25	y	41:34	-	41.1					
PCB-195	2.13e+04	0.81	y	49:08	0.79	15.6	J	-	-	*	
PCB-194	5.19e+04	0.85	y	50:00	0.82	36.7		-	-	*	
PCB-205	*	*	n	NotFnd	1.08	*		684	624	6.20	
13C-PCB-205	1.72e+07	0.90	y	50:14	1.26	9640					96.4
PCB-208	*	*	n	NotFnd	1.02	*		368	356	3.45	
13C-PCB-208	1.72e+07	0.79	y	49:15	1.27	9620					96.2
PCB-207	4.49e+04	1.28	y	49:34	1.13	26.7		-	-	*	
PCB-206	2.04e+04	1.17	y	51:31	1.03	15.8	J	-	-	*	
13C-PCB-206	1.26e+07	0.80	y	51:31	0.90	9840					98.4
PCB-209	6.28e+04	1.28	y	52:48	1.06	33.2		-	-	*	
13C-PCB-209	1.78e+07	1.19	y	52:48	1.37	9200					92.0
13C-PCB-194	1.42e+07	0.93	y	49:58	-	41.5					

Analyst: _____ Date: 9/22/16

File:21SEP16Z #1-548 Acq:21-SEP-2016 18:52:13 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:10146-005-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-548 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
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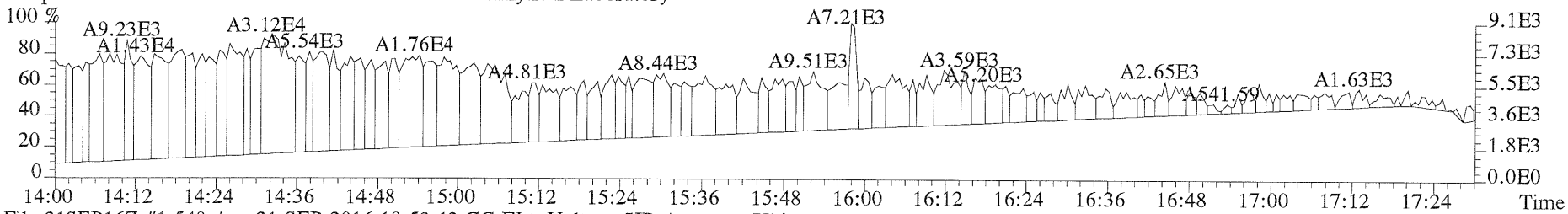
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



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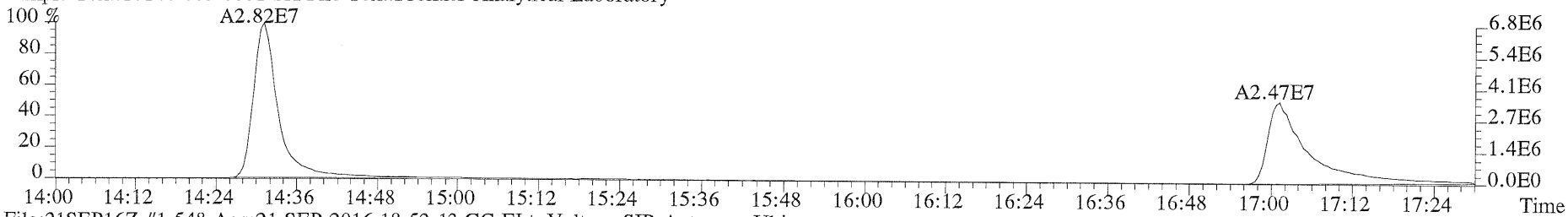
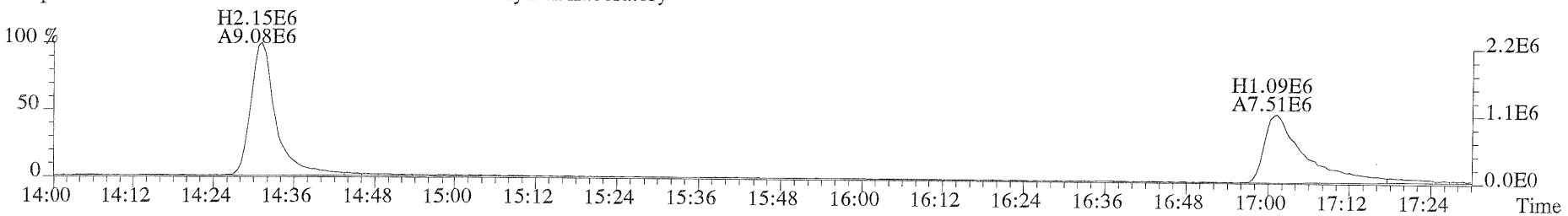
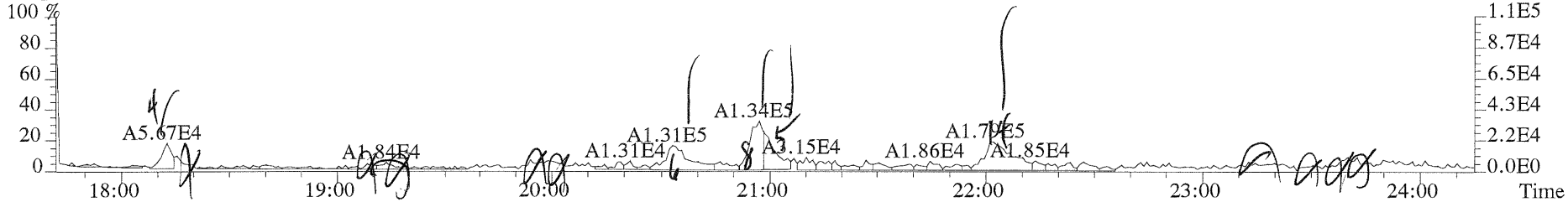


File:21SEP16Z #1-548 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-509 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-509 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
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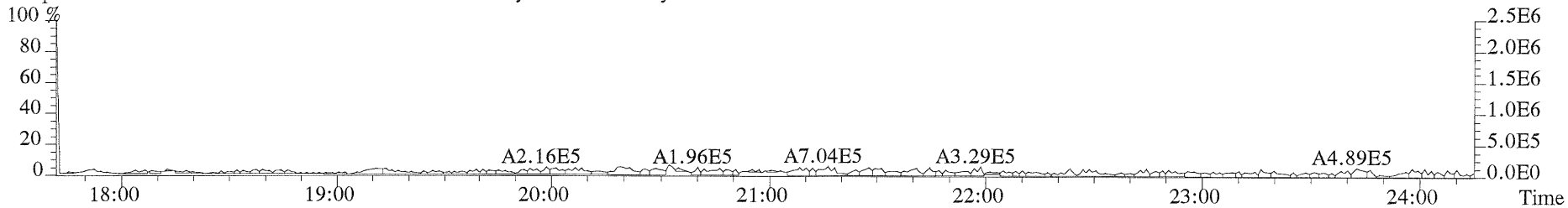
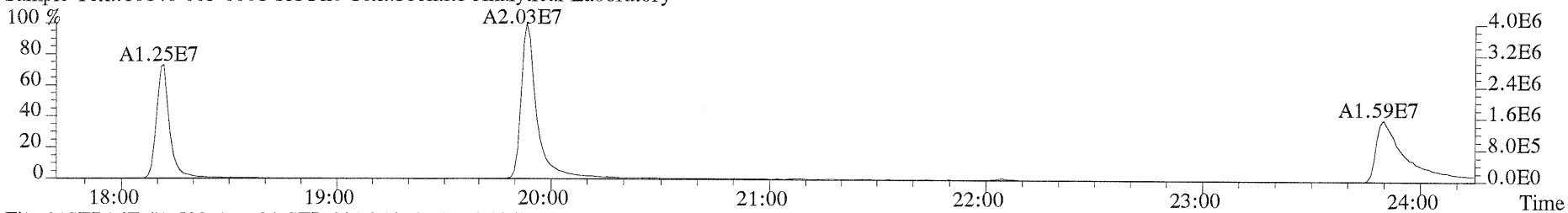
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-509 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-509 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
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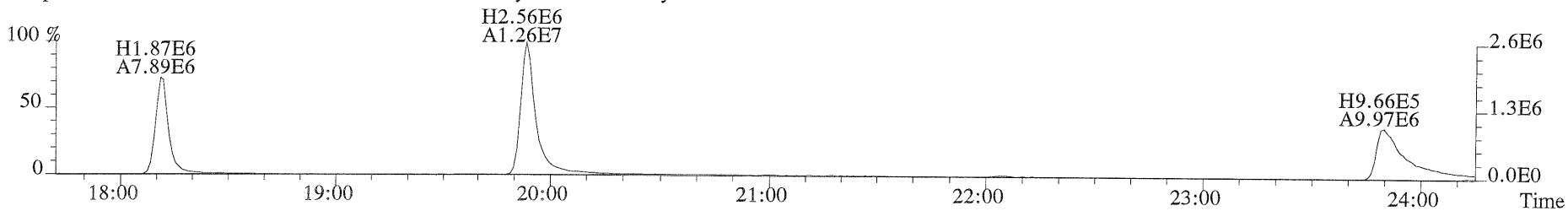
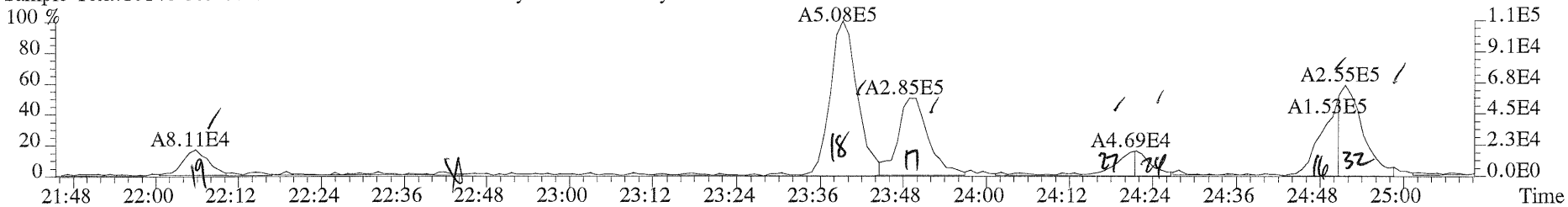
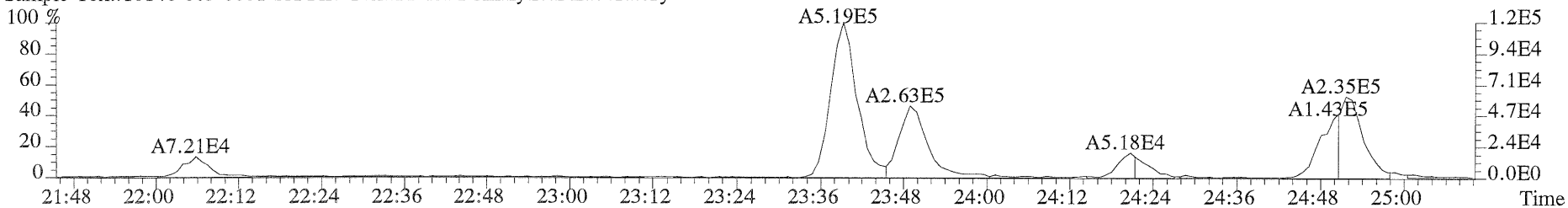
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



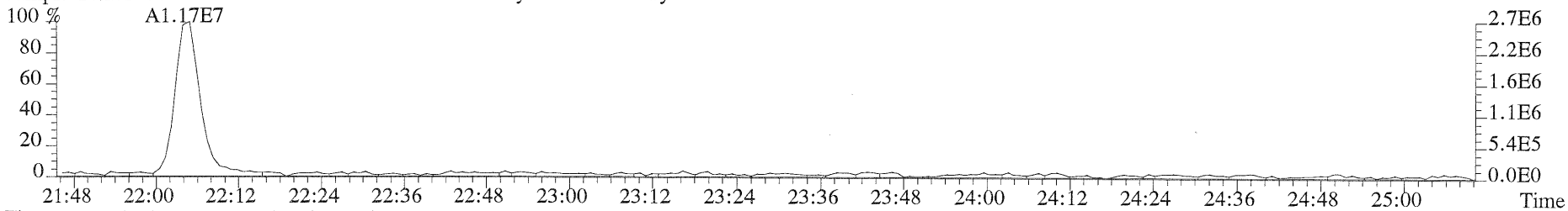
File:21SEP16Z #1-509 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



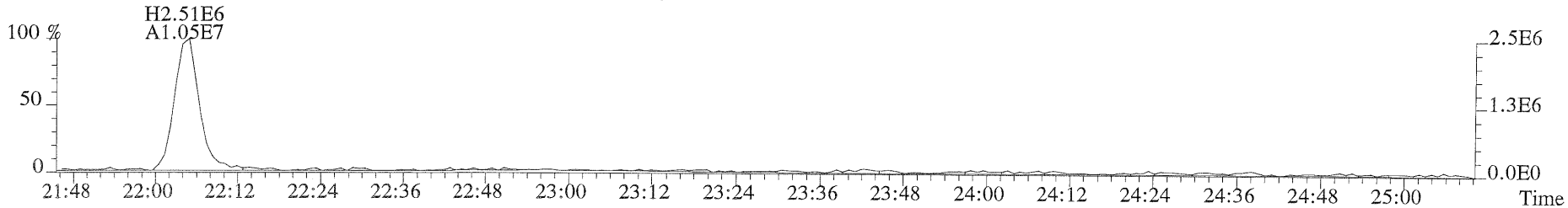
File:21SEP16Z #1-509 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



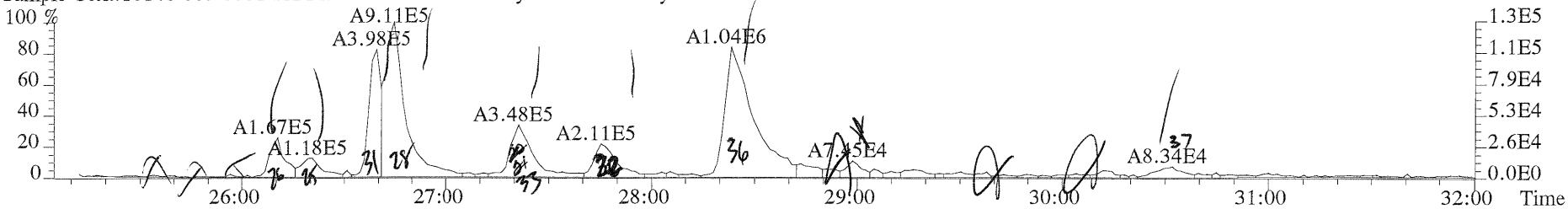
File:21SEP16Z #1-509 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



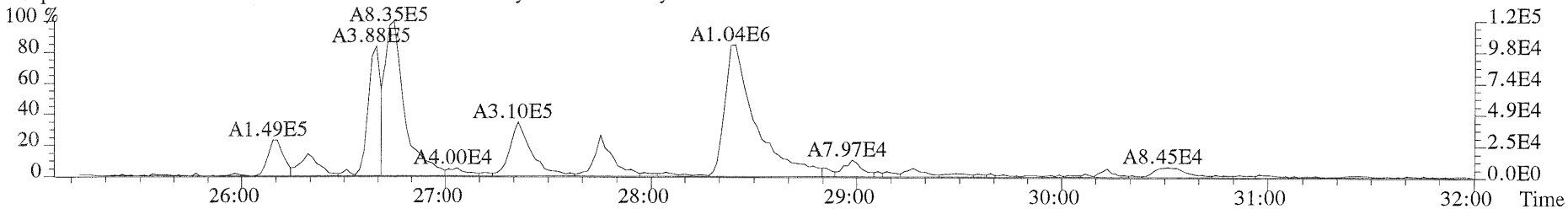
File:21SEP16Z #1-509 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



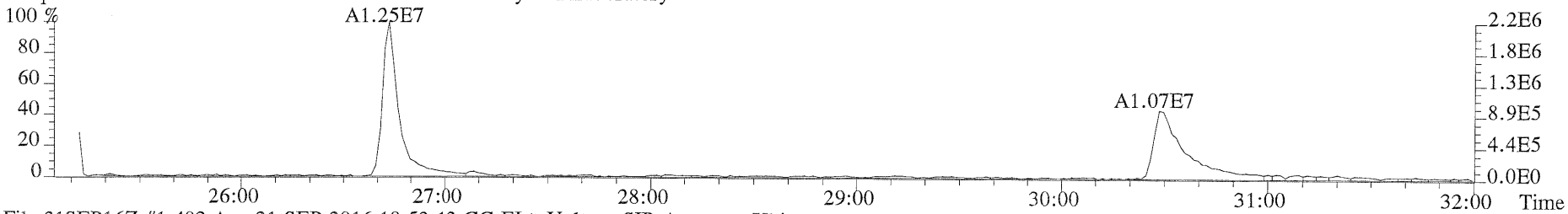
File:21SEP16Z #1-403 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



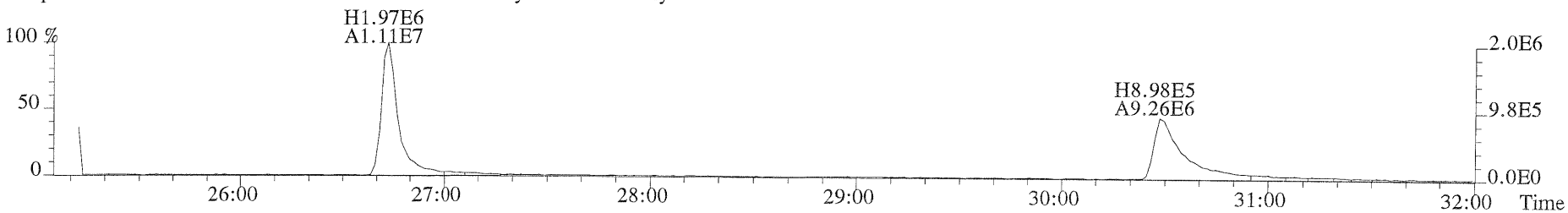
File:21SEP16Z #1-403 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



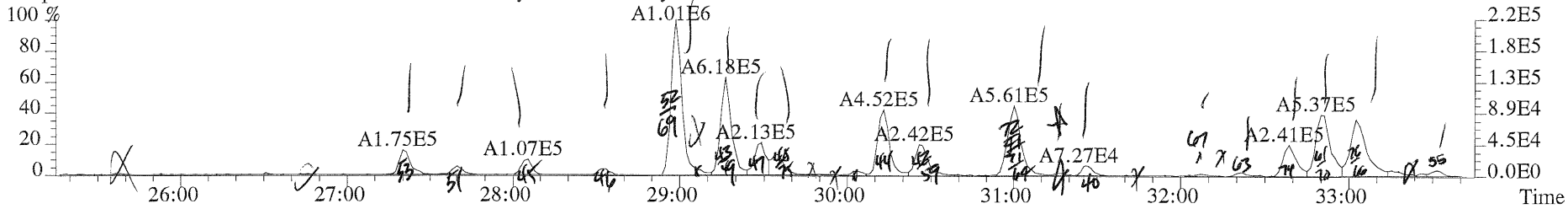
File:21SEP16Z #1-403 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



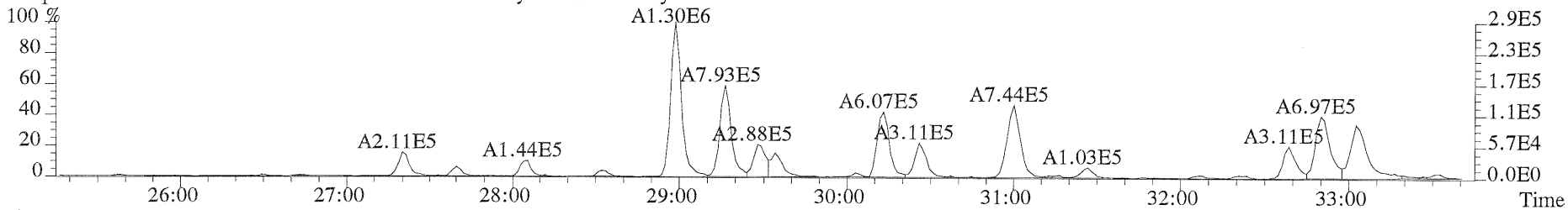
File:21SEP16Z #1-403 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



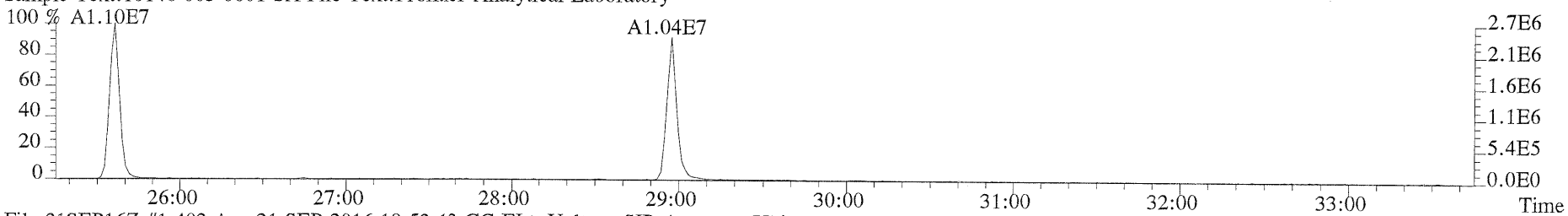
File:21SEP16Z #1-403 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



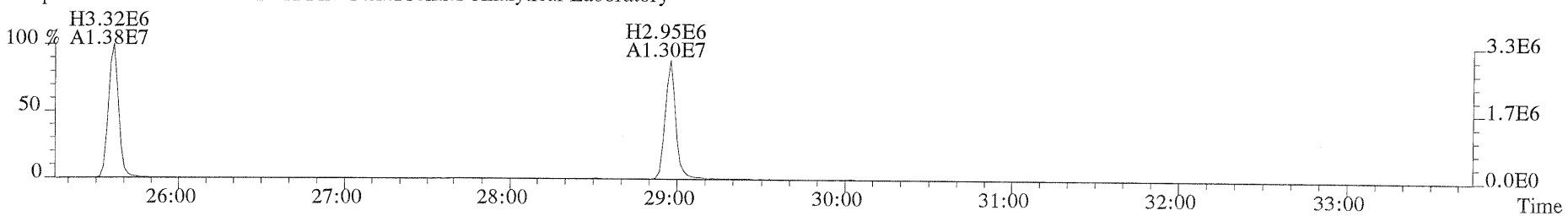
File:21SEP16Z #1-403 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



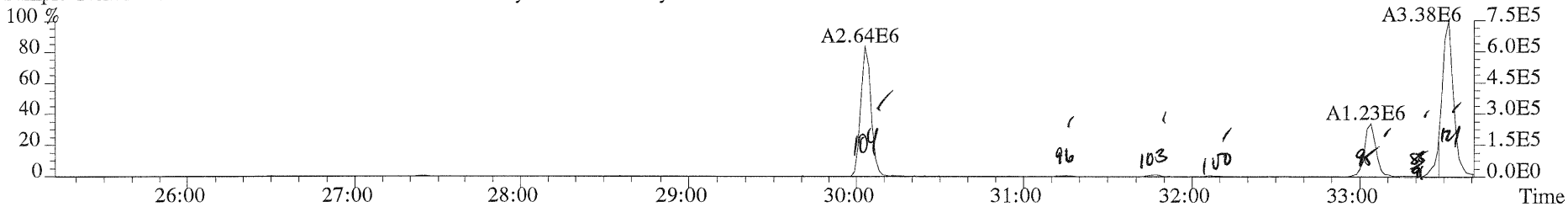
File:21SEP16Z #1-403 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



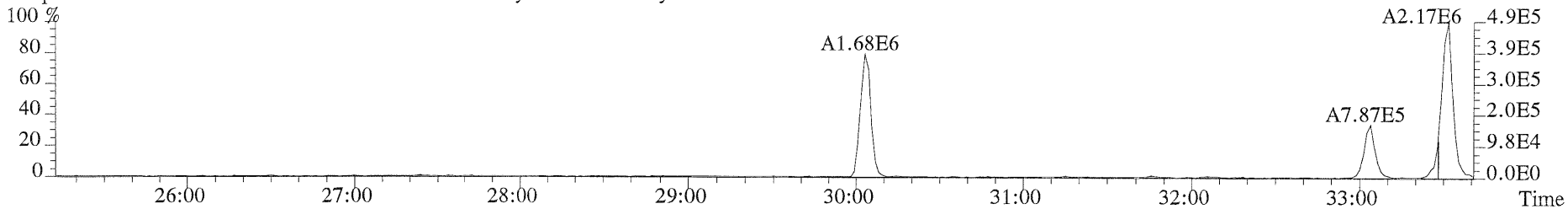
File:21SEP16Z #1-403 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



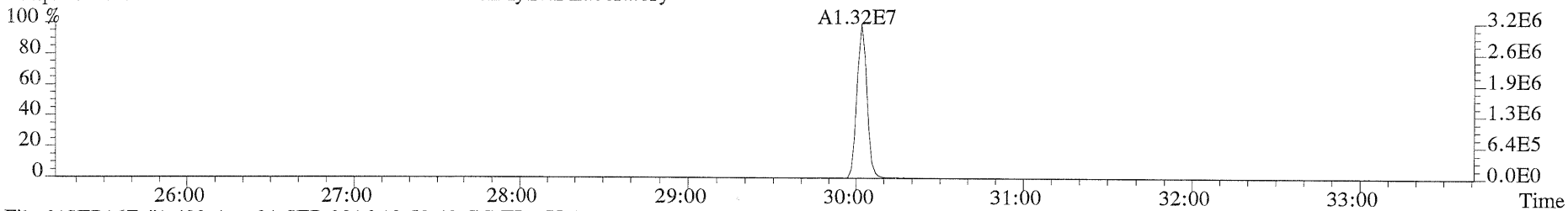
File:21SEP16Z #1-403 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



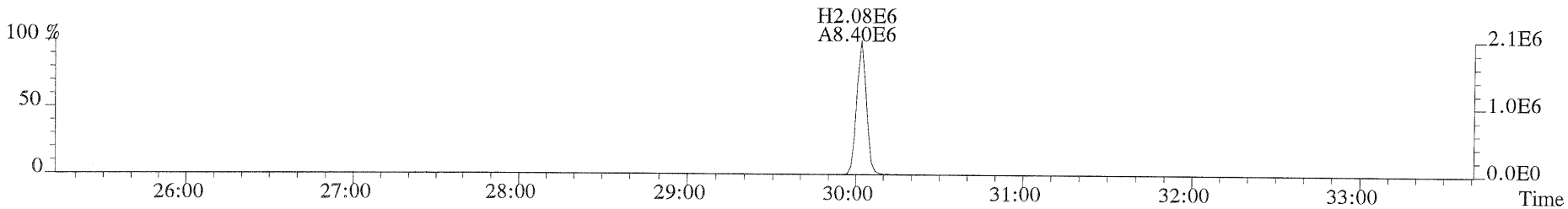
File:21SEP16Z #1-403 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



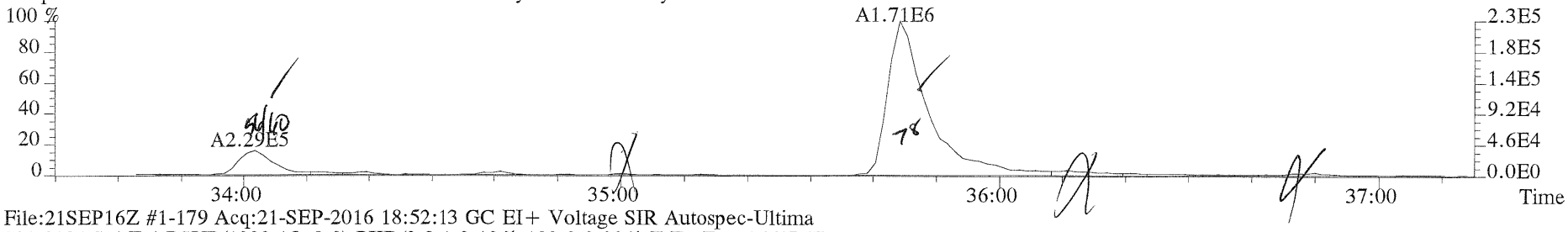
File:21SEP16Z #1-403 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



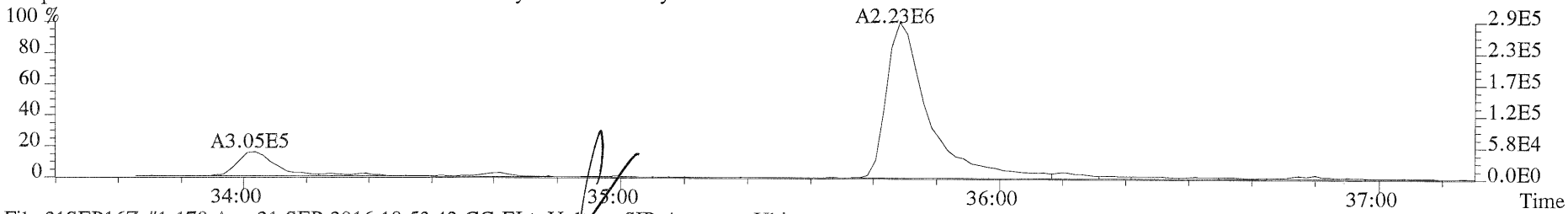
File:21SEP16Z #1-403 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



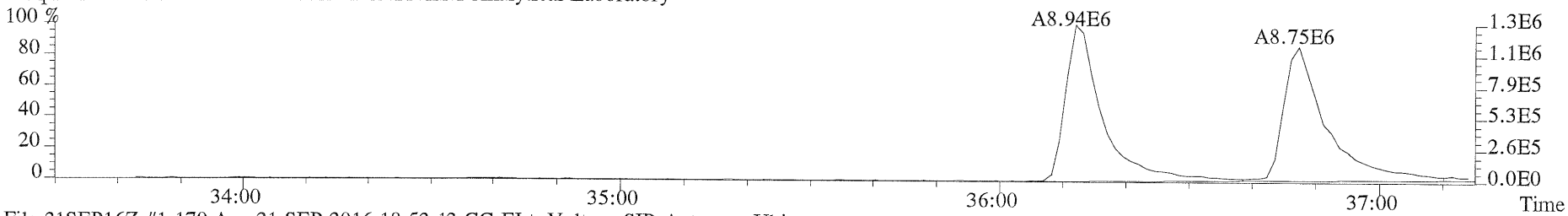
File:21SEP16Z #1-179 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



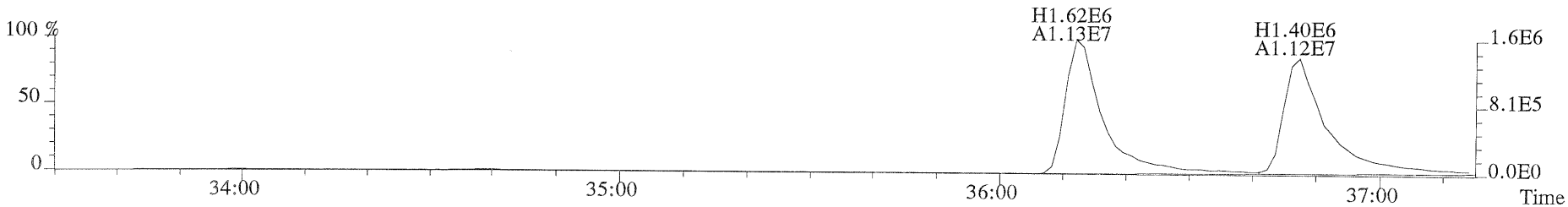
File:21SEP16Z #1-179 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



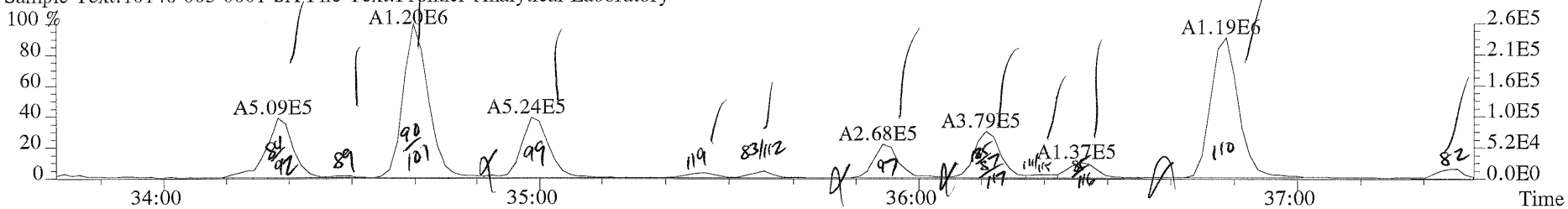
File:21SEP16Z #1-179 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



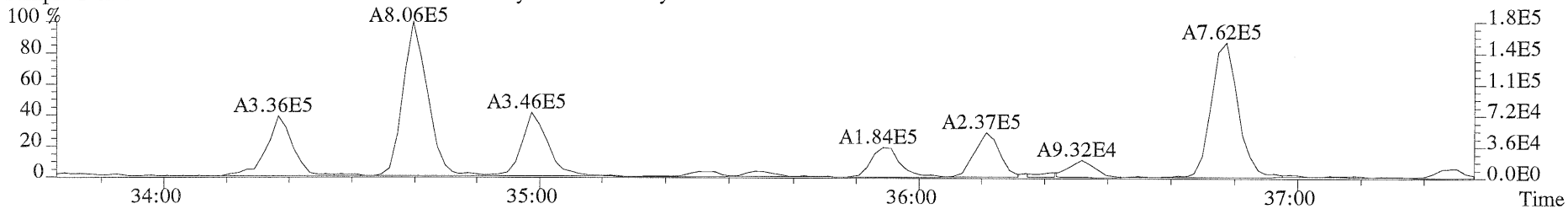
File:21SEP16Z #1-179 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



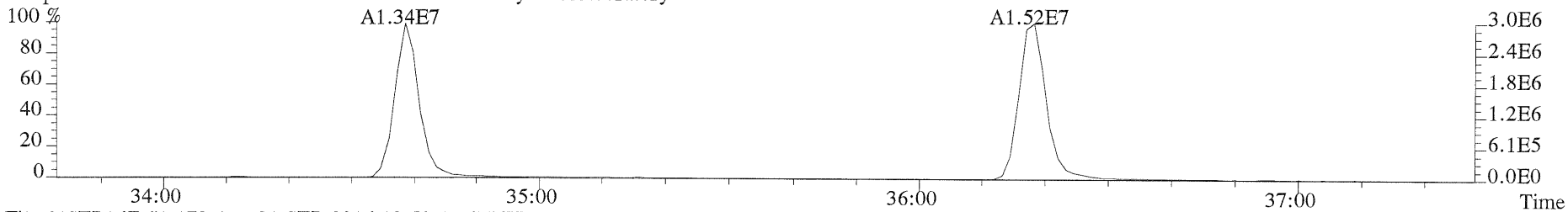
File:21SEP16Z #1-179 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



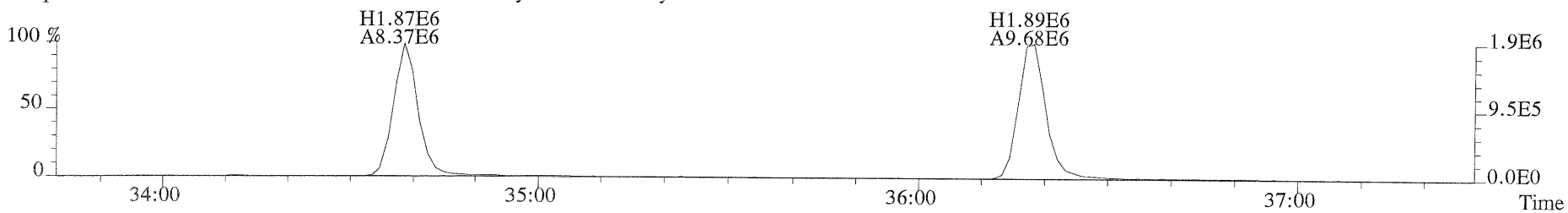
File:21SEP16Z #1-179 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



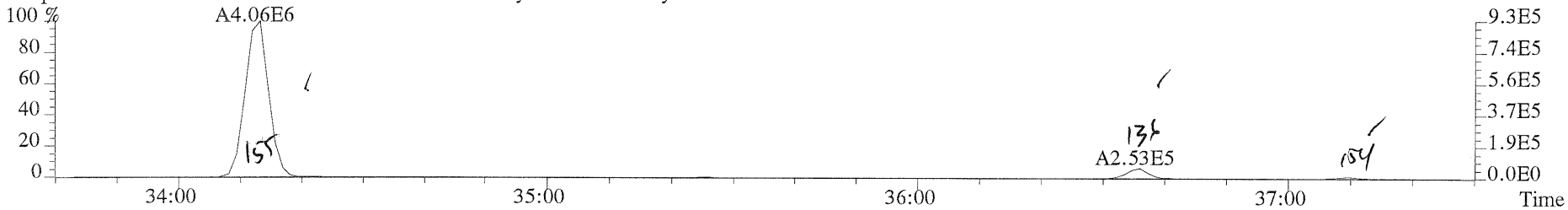
File:21SEP16Z #1-179 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



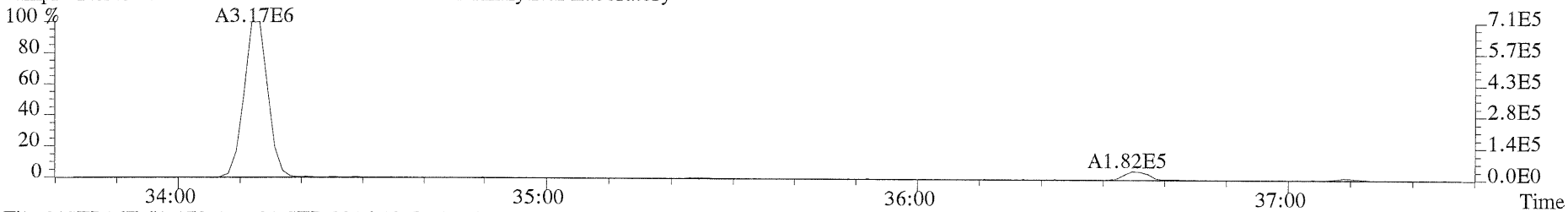
File:21SEP16Z #1-179 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



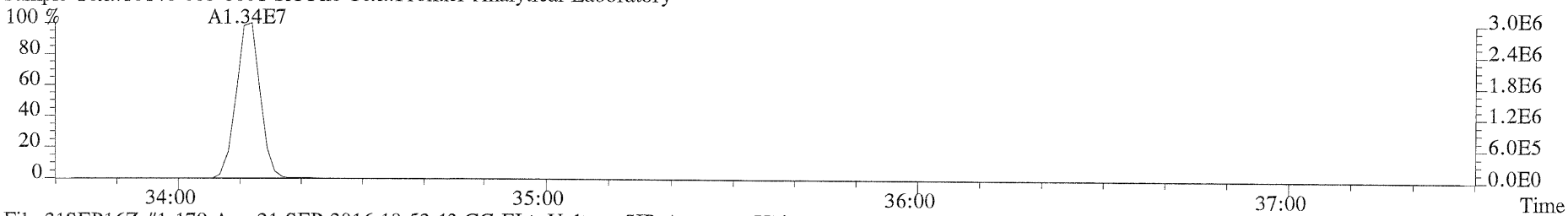
File:21SEP16Z #1-179 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



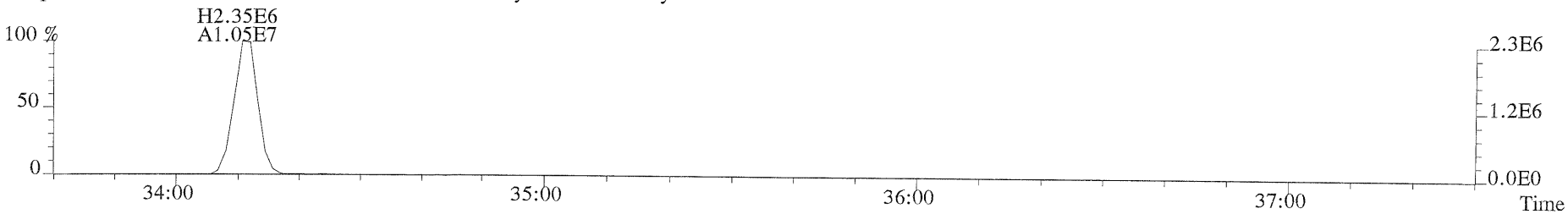
File:21SEP16Z #1-179 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



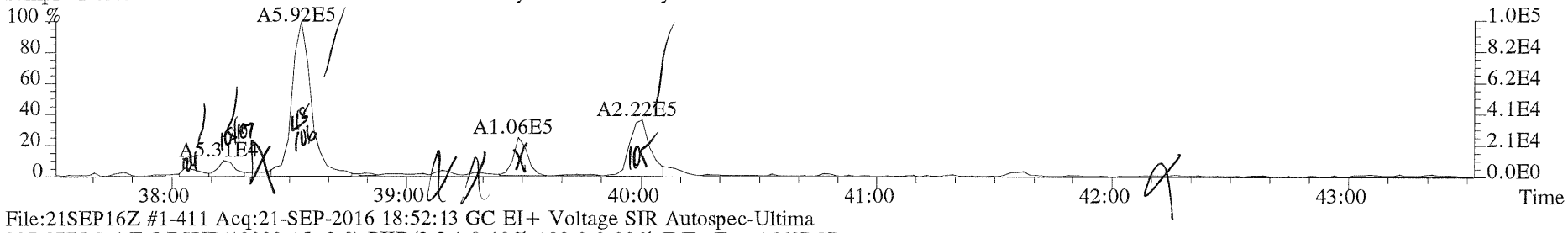
File:21SEP16Z #1-179 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



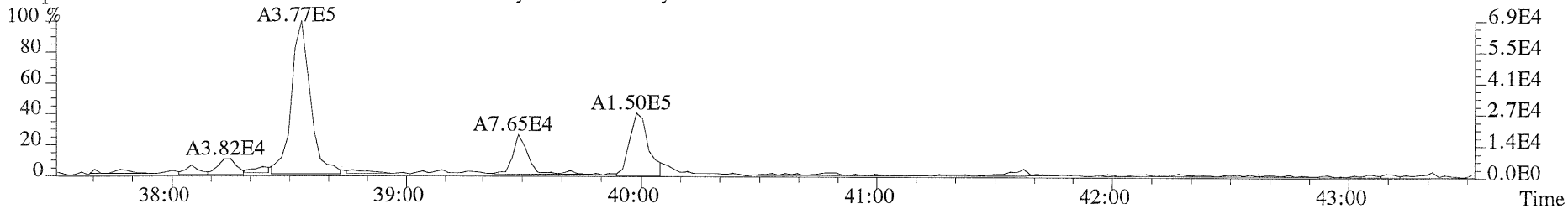
File:21SEP16Z #1-179 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



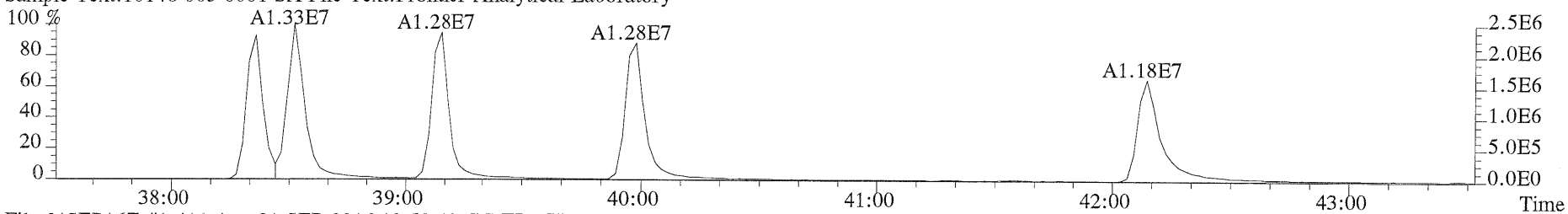
File:21SEP16Z #1-411 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



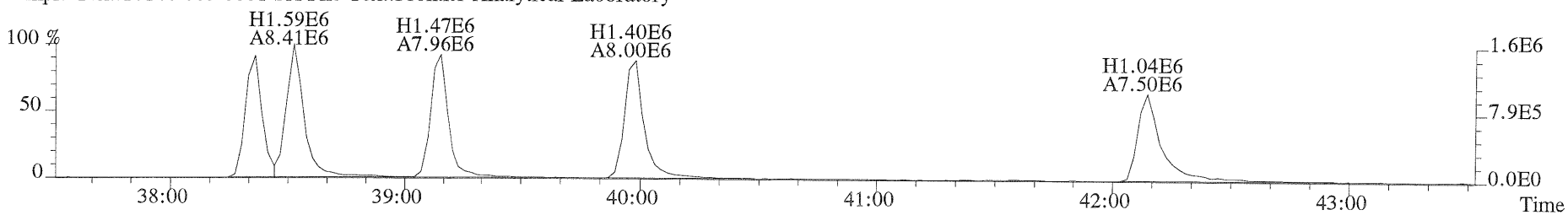
File:21SEP16Z #1-411 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



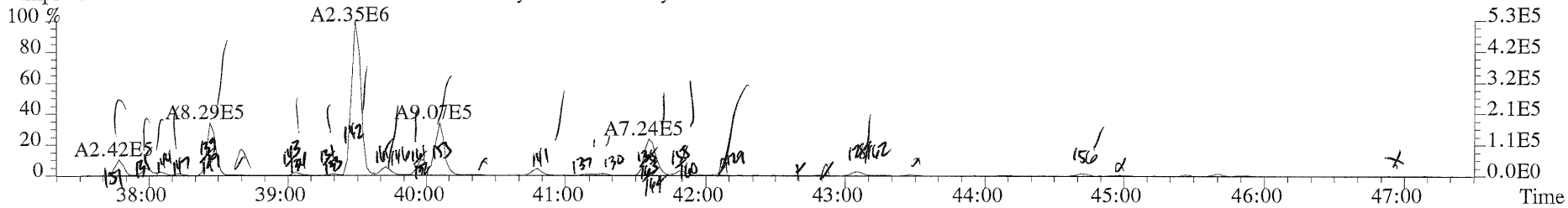
File:21SEP16Z #1-411 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



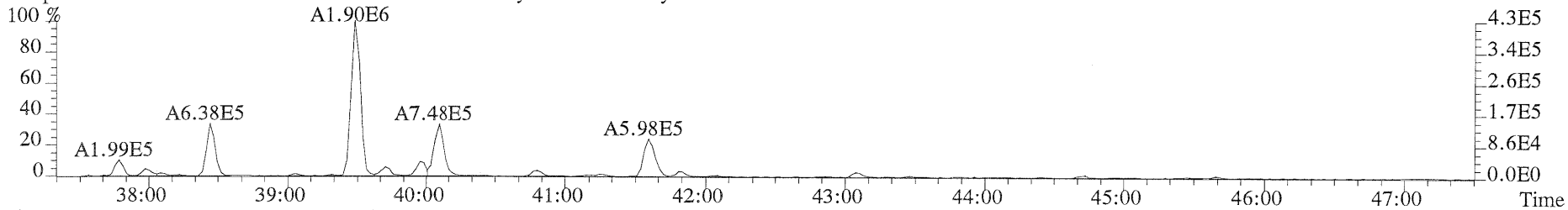
File:21SEP16Z #1-411 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



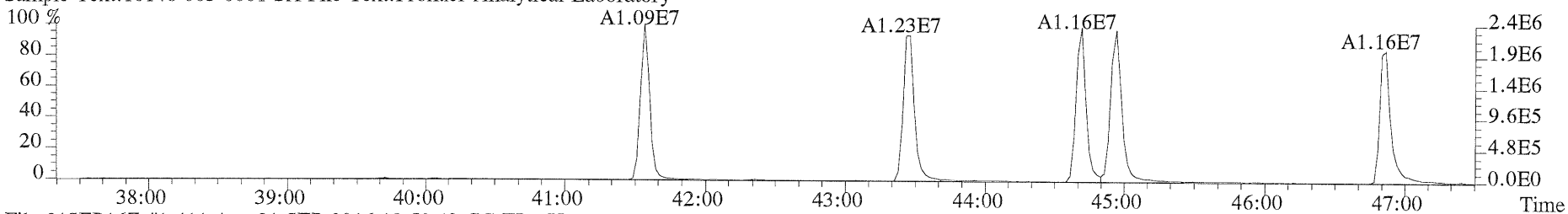
File:21SEP16Z #1-411 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



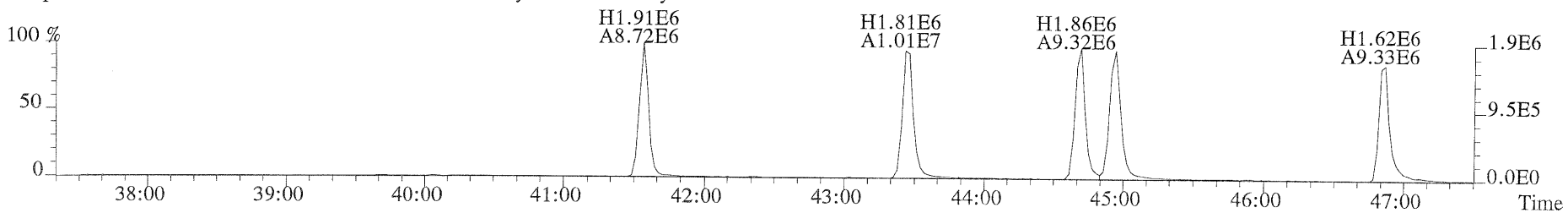
File:21SEP16Z #1-411 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



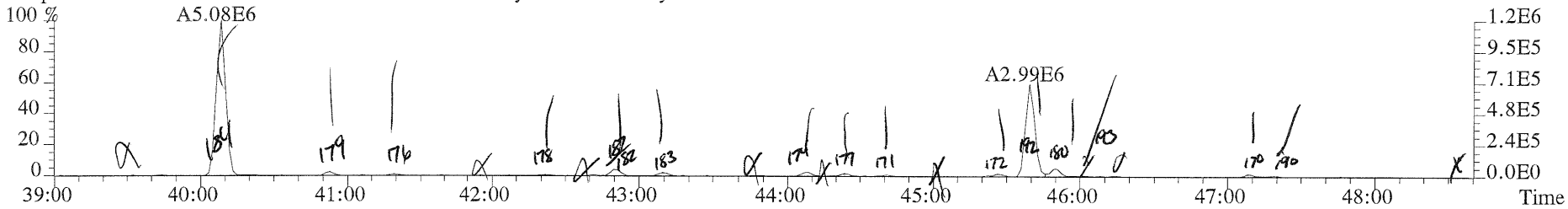
File:21SEP16Z #1-411 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



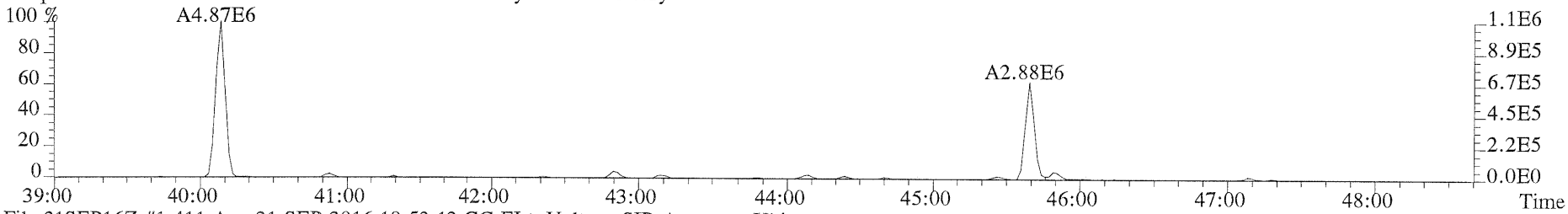
File:21SEP16Z #1-411 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



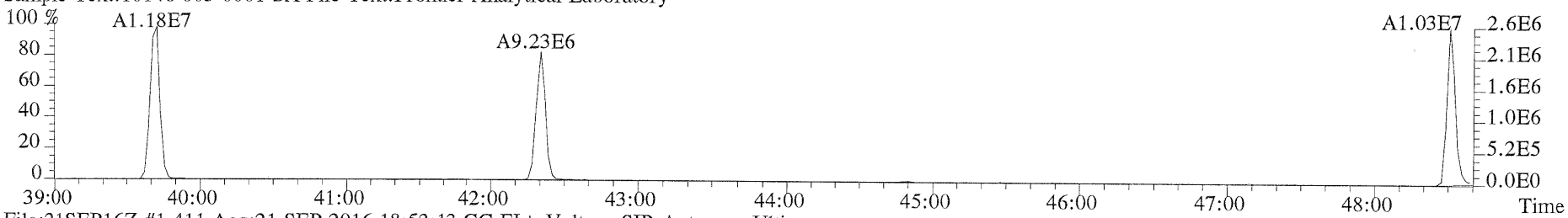
File:21SEP16Z #1-411 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



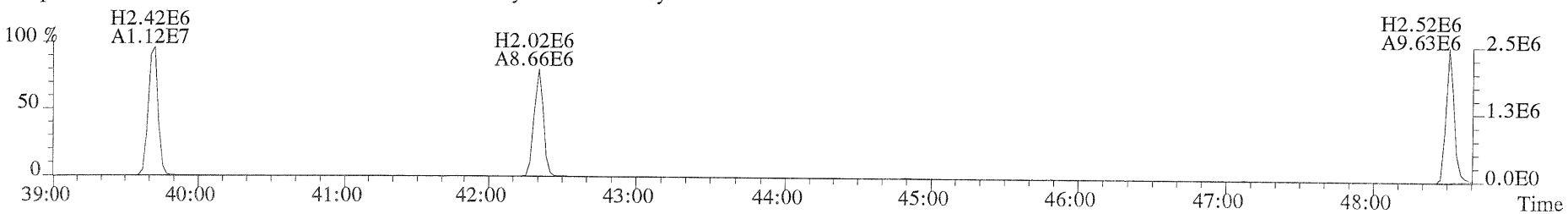
File:21SEP16Z #1-411 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



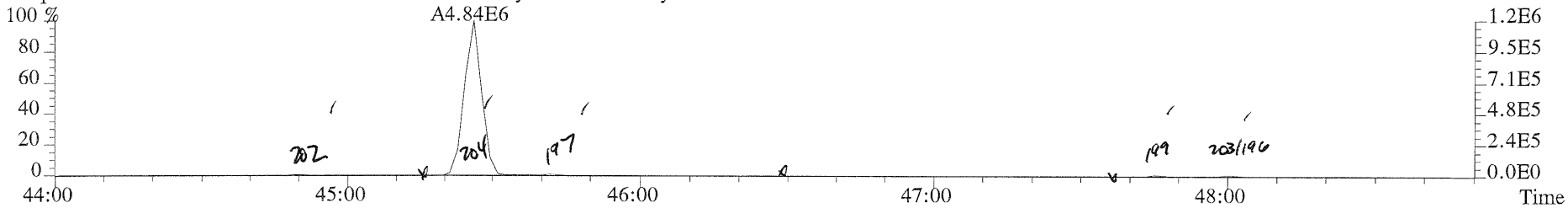
File:21SEP16Z #1-411 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



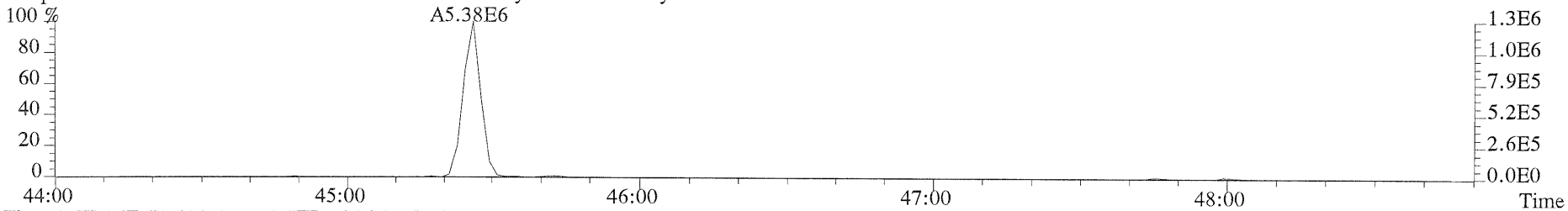
File:21SEP16Z #1-411 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



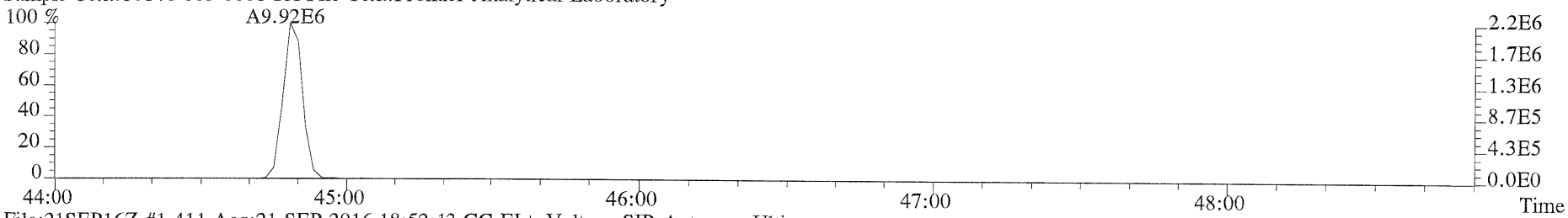
File:21SEP16Z #1-411 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



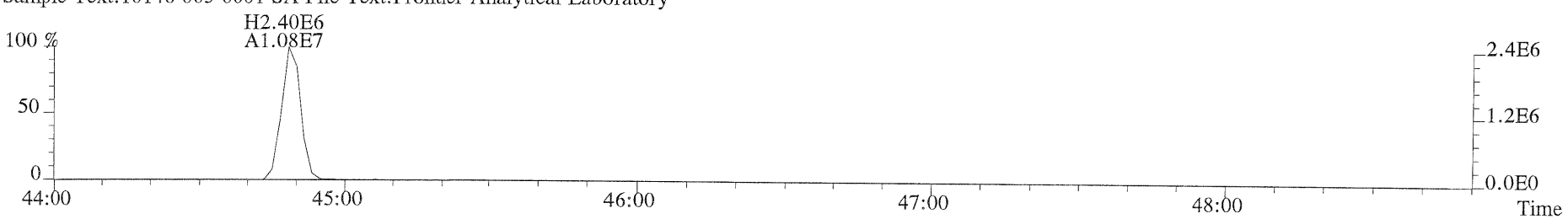
File:21SEP16Z #1-411 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



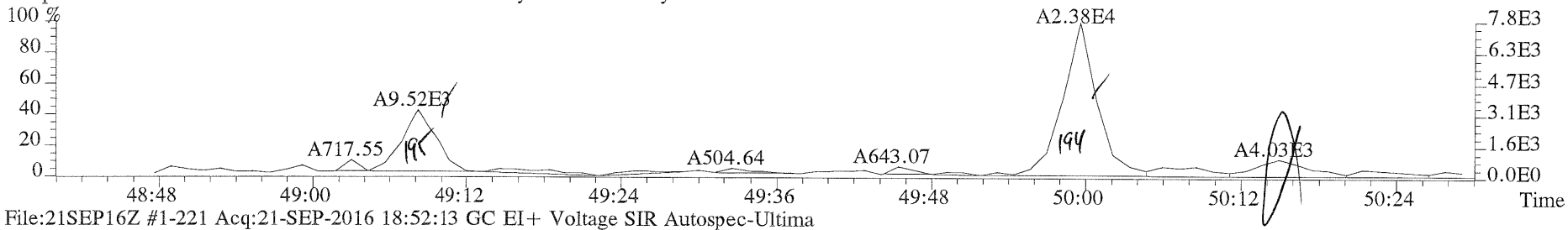
File:21SEP16Z #1-411 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



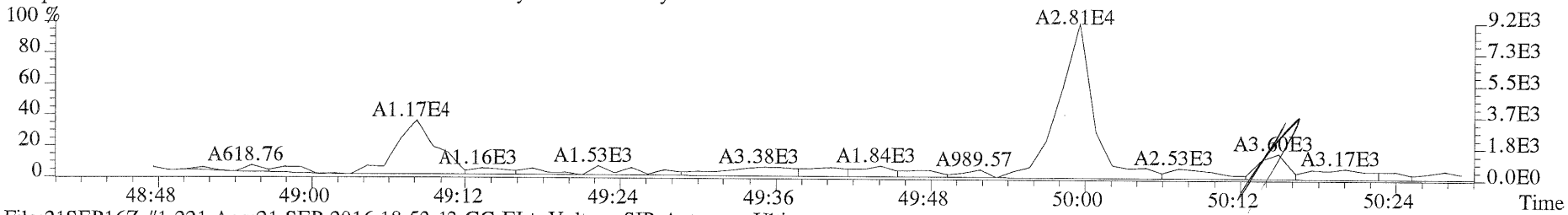
File:21SEP16Z #1-411 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



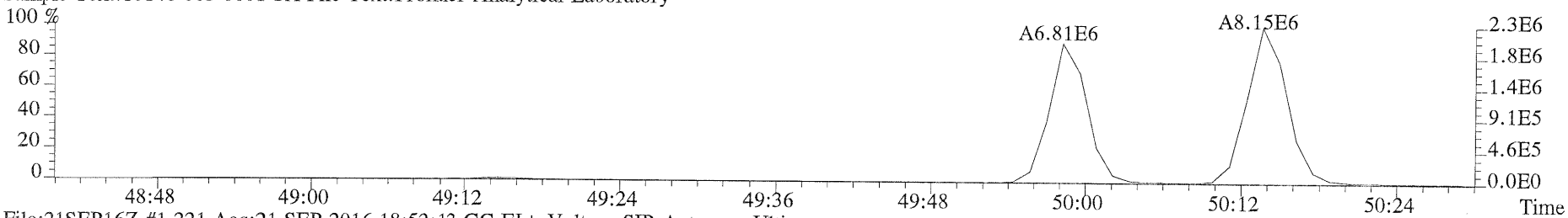
File:21SEP16Z #1-221 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



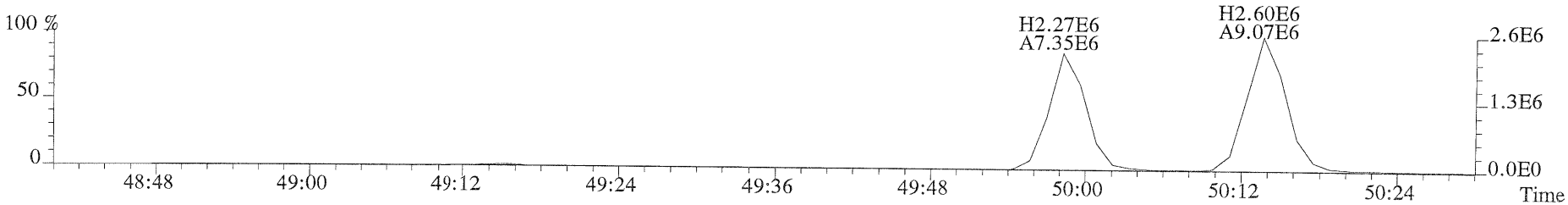
File:21SEP16Z #1-221 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



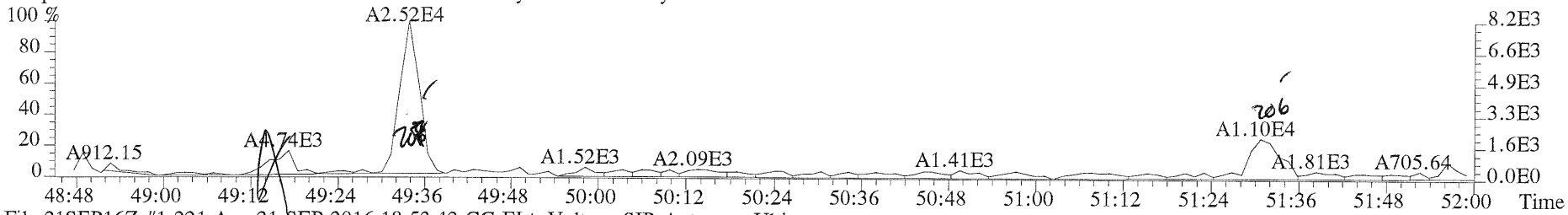
File:21SEP16Z #1-221 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



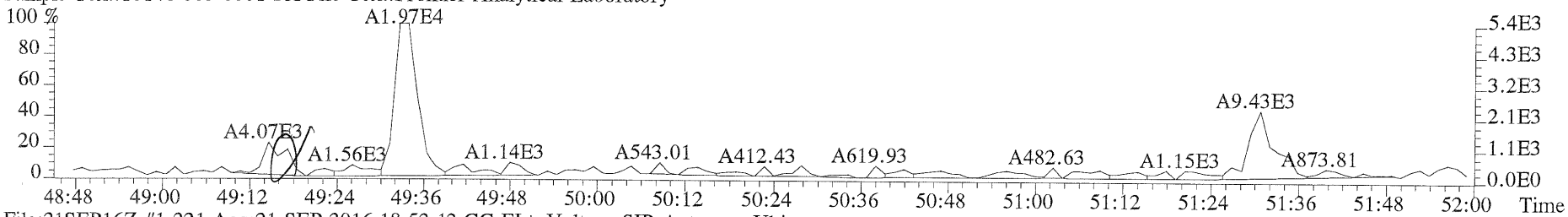
File:21SEP16Z #1-221 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



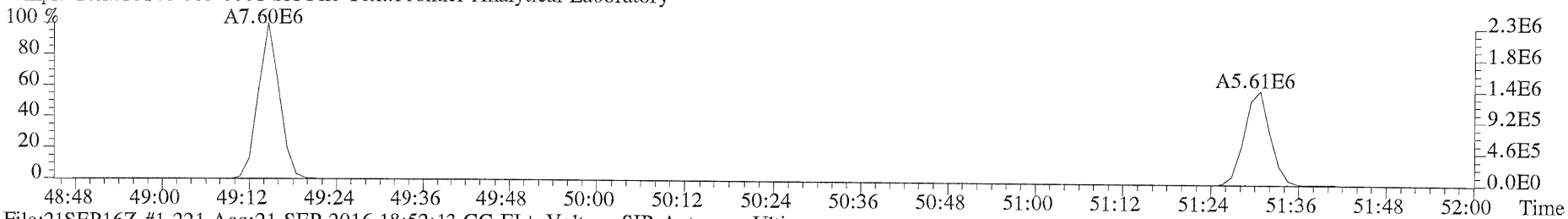
File:21SEP16Z #1-221 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



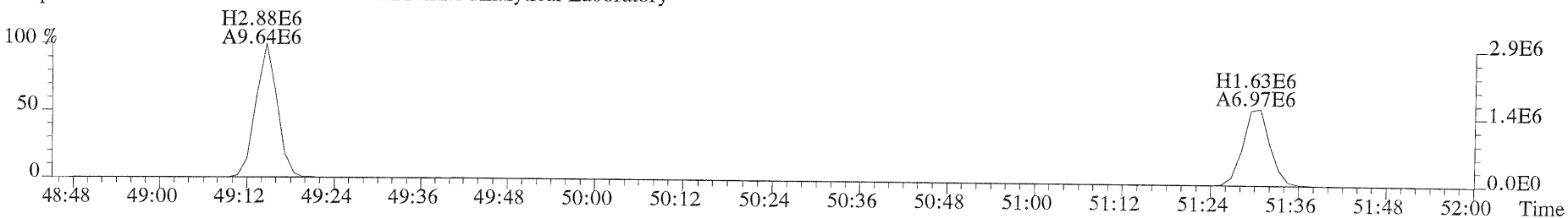
File:21SEP16Z #1-221 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



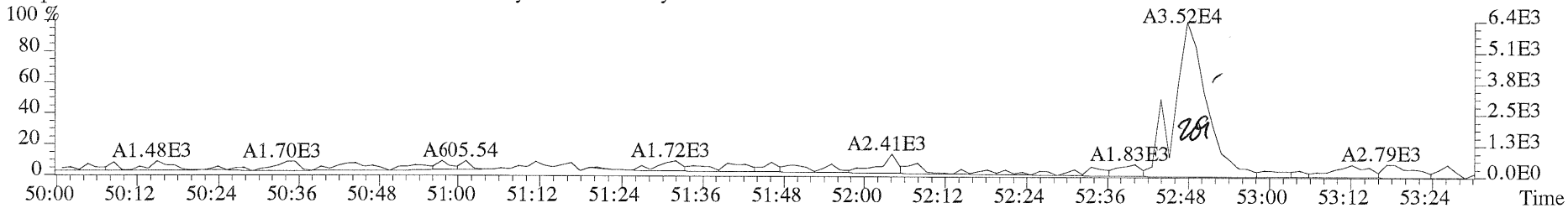
File:21SEP16Z #1-221 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-221 Acq:21-SEP-2016 18:52:13 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:10146-005-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-221 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



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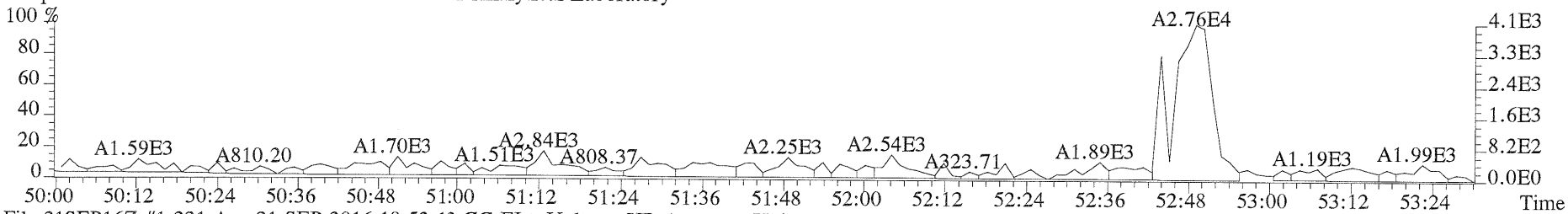
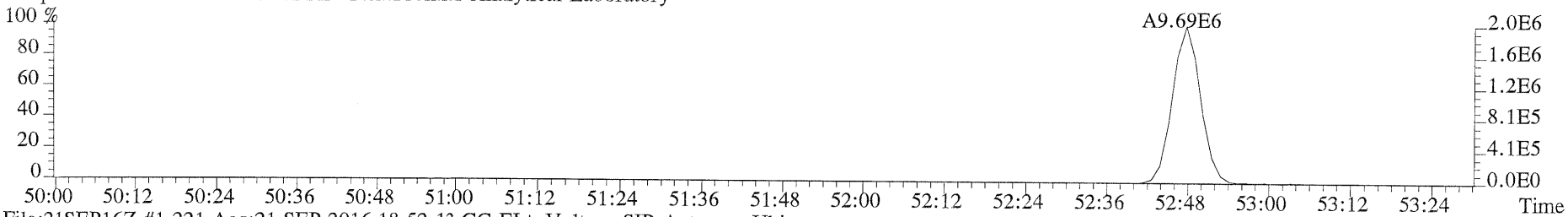
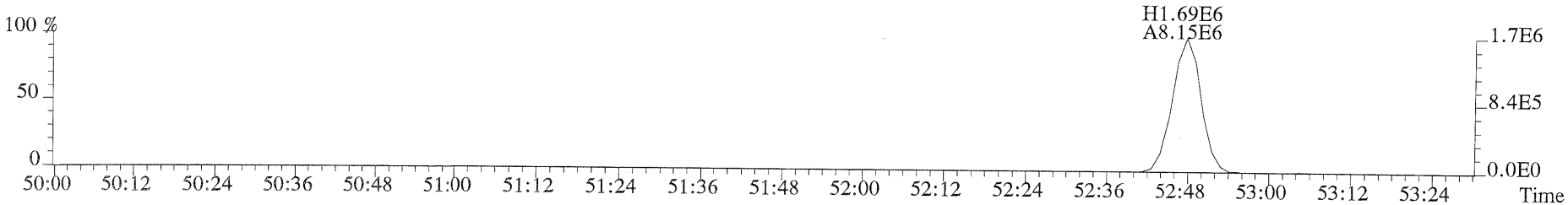
499.6797 S:4 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-221 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-221 Acq:21-SEP-2016 18:52:13 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-005-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10146-006-0001-SA Filename: 19SEP16Z Sam:10 Acquired: 19-SEP-16 22:59:03 ICal: DAILY209FAL4-9-19-16
Client ID: LDW-BA-SC-ENR-CC-S010 ConCal: ST091916Z1 EndCal: ST091916Z2
Results: 10146 GC Column: DB1 Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	1.12	*		1080	989	5.77	
13C-PCB-1	3.26e+07	3.19	y	14:27	0.94	8720					87.2
PCB-2	*	*	n	NotFnd	0.91	*		1080	989	10.0	
PCB-3	*	*	n	NotFnd	1.28	*		1080	989	9.58	
13C-PCB-3	2.82e+07	3.36	y	16:57	0.80	8840					88.4
PCB-4	1.05e+05	1.36	y	18:09	1.14	39.2		-	-	*	
PCB-10	*	*	n	NotFnd	1.32	*		1100	970	9.87	
13C-PCB-4	2.36e+07	1.61	y	18:08	0.63	9440					94.4
PCB-9	*	*	n	NotFnd	1.35	*		1100	970	9.66	
PCB-7	*	*	n	NotFnd	1.51	*		1100	970	8.67	
PCB-6	1.44e+05	1.48	y	20:30	1.47	35.5		-	-	*	
PCB-8	1.32e+05	1.43	y	20:55	1.28	37.5		-	-	*	
PCB-5	1.32e+05	1.43	y	20:55	1.55	31.1		-	-	*	
PCB-14	1.13e+05	1.52	y	21:58	1.38	29.8		-	-	*	
PCB-11	*	*	n	NotFnd	1.14	*		1100	970	11.4	
PCB-13	*	*	n	NotFnd	1.15	*		1100	970	11.3	
PCB-12	3.90e+04	1.41	y	23:36	1.29	11.0	J	-	-	*	
PCB-15	7.13e+04	1.40	y	23:47	1.33	17.1	J	-	-	*	
13C-PCB-15	3.13e+07	1.67	y	23:46	0.88	8970					89.7
PCB-19	1.15e+05	0.95	y	22:02	1.22	49.1		-	-	*	
PCB-30	*	*	n	NotFnd	1.71	*		704	432	3.74	
PCB-18	8.23e+05	1.07	y	23:36	1.12	382		-	-	*	
PCB-17	4.60e+05	1.07	y	23:45	1.29	185		-	-	*	
PCB-27	1.09e+05	1.11	y	24:17	1.63	34.8		-	-	*	
PCB-24	1.09e+05	1.11	y	24:17	1.69	33.7		-	-	*	
PCB-16	3.29e+05	0.90	y	24:47	1.28	134		-	-	*	
PCB-32	3.47e+05	1.00	y	24:48	1.55	117		-	-	*	
13C-PCB-19	1.92e+07	1.09	y	22:01	0.47	10200					102
13C-PCB-9	3.98e+07	1.59	y	19:49	-	40.6					
PCB-34	*	*	n	NotFnd	0.98	*		840	676	15.6	
PCB-23	*	*	n	NotFnd	1.44	*		840	676	10.6	
PCB-29	*	*	n	NotFnd	1.25	*		840	676	12.2	
PCB-26	2.67e+05	0.91	y	26:06	1.21	88.0		-	-	*	
PCB-25	2.08e+05	1.06	y	26:16	1.53	54.4		-	-	*	
PCB-31	7.26e+05	0.95	y	26:35	1.11	261		-	-	*	
PCB-28	1.50e+06	1.03	y	26:41	1.60	375		-	-	*	
PCB-20	5.89e+05	0.91	y	27:18	1.32	179		-	-	*	Co-elute PCB 21/33
PCB-21	5.89e+05	0.91	y	27:18	1.32	179		-	-	*	Co-elute PCB 20/33
PCB-33	5.89e+05	0.91	y	27:18	1.32	179		-	-	*	Co-elute PCB 20/21
PCB-22	3.41e+05	1.03	y	27:42	1.34	102		-	-	*	
PCB-36	1.56e+06	0.91	y	28:21	1.11	561		-	-	*	
PCB-39	*	*	n	NotFnd	1.09	*		840	676	14.0	
PCB-38	*	*	n	NotFnd	1.24	*		840	676	12.3	
PCB-35	*	*	n	NotFnd	0.96	*		840	676	15.8	
PCB-37	1.05e+05	1.10	y	30:27	1.29	32.7		-	-	*	
13C-PCB-37	2.50e+07	1.06	y	30:25	1.43	7590					75.9

PCB-54	*	*	n	NotFnd	1.17	*		652	784	5.12	
PCB-50	*	*	n	NotFnd	0.86	*		652	784	6.98	
PCB-53	3.20e+05	0.81	y	27:16	0.83	153		-	-	*	
PCB-51	1.08e+05	0.80	y	27:35	0.86	49.7		-	-	*	
PCB-45	2.07e+05	0.74	y	28:01	0.74	111		-	-	*	
PCB-46	8.49e+04	0.77	y	28:29	0.69	49.0		-	-	*	
PCB-52	1.89e+06	0.79	y	28:55	1.02	730		-	-	*	Co-elute PCB 69
PCB-69	1.89e+06	0.79	y	28:55	1.02	730		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.05	*		652	784	5.69	
PCB-43	1.20e+06	0.80	y	29:13	0.79	603		-	-	*	Co-elute PCB 49
PCB-49	1.20e+06	0.80	y	29:13	0.79	603		-	-	*	Co-elute PCB 43
PCB-47	4.25e+05	0.72	y	29:24	0.96	175		-	-	*	
PCB-48	3.20e+05	0.76	y	29:30	1.05	121		-	-	*	Co-elute PCB 75
PCB-75	3.20e+05	0.76	y	29:30	1.05	121		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.04	*		652	784	5.75	
PCB-62	*	*	n	NotFnd	1.01	*		652	784	5.90	
PCB-44	8.63e+05	0.80	y	30:08	0.73	470		-	-	*	
PCB-42	4.47e+05	0.81	y	30:22	0.99	179		-	-	*	Co-elute PCB 59
PCB-59	4.47e+05	0.81	y	30:22	0.99	179		-	-	*	Co-elute PCB 42
PCB-72	1.10e+06	0.78	y	30:56	1.06	413		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.10e+06	0.78	y	30:56	1.06	413		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.10e+06	0.78	y	30:56	1.06	413		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.10e+06	0.78	y	30:56	1.06	413		-	-	*	Co-elute PCB 72/41/71
PCB-68	3.81e+04	0.83	y	31:12	1.12	13.4	J	-	-	*	
PCB-40	1.40e+05	0.77	y	31:23	0.64	87.0		-	-	*	
PCB-57	*	*	n	NotFnd	1.06	*		652	784	5.67	
PCB-67	3.97e+04	0.81	y	32:02	1.06	14.8	J	-	-	*	
PCB-58	*	*	n	NotFnd	1.03	*		652	784	5.80	
PCB-63	4.69e+04	0.82	y	32:17	1.07	17.3	J	-	-	*	
PCB-74	4.65e+05	0.79	y	32:35	1.11	166		-	-	*	
PCB-61	1.07e+06	0.79	y	32:46	1.08	390		-	-	*	Co-elute PCB 70
PCB-70	1.07e+06	0.79	y	32:46	1.08	390		-	-	*	Co-elute PCB 61
PCB-76	1.18e+06	0.81	y	32:59	1.14	409		-	-	*	Co-elute PCB 66
PCB-66	1.18e+06	0.81	y	32:59	1.14	409		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.22	*		652	784	4.90	
PCB-55	8.43e+04	0.69	y	33:28	1.10	30.4		-	-	*	
13C-PCB-54	2.53e+07	0.82	y	25:32	1.20	9130					91.3
PCB-104	2.37e+06	1.57	y	30:00	1.25	1290		-	-	*	
PCB-96	2.00e+04	1.42	y	31:12	1.14	12.0	J	-	-	*	
PCB-103	3.37e+04	1.40	y	31:42	0.94	24.4		-	-	*	
PCB-100	2.48e+04	1.35	y	32:02	0.91	18.5	J	-	-	*	
PCB-94	*	*	n	NotFnd	0.76	*		320	424	7.04	
PCB-98	*	*	n	NotFnd	0.97	*		320	424	5.47	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.97	*		320	424	5.47	Co-elute PCB 98
PCB-95	1.18e+06	1.61	y	33:00	0.80	995		-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*		320	424	6.85	
PCB-88	*	*	n	NotFnd	0.81	*		320	424	6.60	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.81	*		320	424	6.60	Co-elute PCB 88
PCB-121	3.43e+06	1.57	y	33:27	1.15	2030		-	-	*	
13C-PCB-104	1.47e+07	1.60	y	29:58	0.66	9740					97.4
13C-PCB-28	3.16e+07	1.02	y	26:39	1.63	8410					84.1
13C-PCB-52	2.30e+07	0.79	y	28:54	-	43.2					

PCB-56	5.59e+05	0.71	y	33:58	1.24	170		-	-	*	Co-elute PCB 60
PCB-60	5.59e+05	0.71	y	33:58	1.24	170		-	-	*	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.23	*		1500	1850	18.8	
PCB-78	3.48e+06	0.74	y	35:41	1.13	1160		-	-	*	
PCB-81	*	*	n	NotFnd	1.23	*		1500	1850	17.2	
13C-PCB-81	2.63e+07	0.80	y	36:08	1.35	9520					95.2
PCB-77	8.60e+04	0.70	y	36:45	1.14	28.1		-	-	*	
13C-PCB-77	2.68e+07	0.81	y	36:43	1.37	9530					95.3
PCB-155	4.21e+06	1.24	y	34:08	1.18	2240		-	-	*	
PCB-150	*	*	n	NotFnd	1.01	*		468	320	5.36	
PCB-152	*	*	n	NotFnd	1.00	*		468	320	5.46	
PCB-145	*	*	n	NotFnd	1.00	*		468	320	5.42	
PCB-136	2.49e+05	1.31	y	36:31	0.94	167		-	-	*	
PCB-148	*	*	n	NotFnd	0.78	*		468	320	6.94	
PCB-154	4.76e+04	1.19	y	37:07	0.85	35.3		-	-	*	
13C-PCB-155	1.59e+07	1.24	y	34:07	0.84	9290					92.9
13C-PCB-111	2.39e+07	1.61	y	36:13	1.16	10000					100
13C-PCB-101	2.05e+07	1.61	y	34:35	-	45.1					
PCB-84	6.74e+05	1.51	y	34:15	0.68	389		-	-	*	Co-elute PCB 92
PCB-92	6.74e+05	1.51	y	34:15	0.68	389		-	-	*	Co-elute PCB 84
PCB-89	2.35e+04	1.45	y	34:25	0.67	13.8	J	-	-	*	
PCB-90	1.63e+06	1.55	y	34:36	0.76	838		-	-	*	Co-elute PCB 101
PCB-101	1.63e+06	1.55	y	34:36	0.76	838		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.85	*		721	511	7.59	
PCB-99	7.40e+05	1.49	y	34:55	0.85	343		-	-	*	
PCB-119	6.84e+04	1.45	y	35:22	0.96	28.0		-	-	*	
PCB-83	7.12e+04	1.50	y	35:31	0.78	35.7		-	-	*	Co-elute PCB 112
PCB-112	7.12e+04	1.50	y	35:31	0.78	35.7		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.92	*		721	511	7.01	
PCB-97	3.70e+05	1.53	y	35:51	0.82	178		-	-	*	
PCB-86	*	*	n	NotFnd	0.66	*		721	511	9.79	
PCB-125	5.42e+05	1.50	y	36:07	0.85	250		-	-	*	Co-elute PCB 87/117
PCB-87	5.42e+05	1.50	y	36:07	0.85	250		-	-	*	Co-elute PCB 125/117
PCB-117	5.42e+05	1.50	y	36:07	0.85	250		-	-	*	Co-elute PCB 125/87
PCB-111	5.10e+04	1.49	y	36:19	1.13	17.7	J	-	-	*	Co-elute PCB 115
PCB-115	5.10e+04	1.49	y	36:19	1.13	17.7	J	-	-	*	Co-elute PCB 111
PCB-85	2.10e+05	1.53	y	36:22	0.79	104		-	-	*	Co-elute PCB 116
PCB-116	2.10e+05	1.53	y	36:22	0.79	104		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.93	*		721	511	6.95	
PCB-110	1.76e+06	1.52	y	36:45	1.07	646		-	-	*	
PCB-82	1.04e+05	1.71	y	37:20	0.55	73.9		-	-	*	
PCB-124	4.68e+04	1.69	y	38:02	1.03	17.9	J	-	-	*	
PCB-108	8.54e+04	1.40	y	38:10	1.17	28.7		-	-	*	Co-elute PCB 107
PCB-107	8.54e+04	1.40	y	38:10	1.17	28.7		-	-	*	Co-elute PCB 108
PCB-123	3.38e+04	1.49	y	38:18	1.34	10.9	J	-	-	*	
13C-PCB-123	2.30e+07	1.60	y	38:17	1.34	8630					86.3
PCB-118	1.08e+06	1.47	y	38:28	1.08	366		-	-	*	Co-elute PCB 106
PCB-106	1.08e+06	1.47	y	38:28	1.08	366		-	-	*	Co-elute PCB 118
13C-PCB-118	2.73e+07	1.58	y	38:28	1.45	9430					94.3
PCB-114	3.20e+04	1.59	y	39:06	1.10	11.2	J	-	-	*	
13C-PCB-114	2.60e+07	1.56	y	39:05	1.36	9570					95.7
PCB-122	*	*	n	NotFnd	1.25	*		460	628	4.56	
PCB-105	3.64e+05	1.51	y	39:56	1.16	123		-	-	*	
13C-PCB-105	2.56e+07	1.57	y	39:54	1.38	9280					92.8

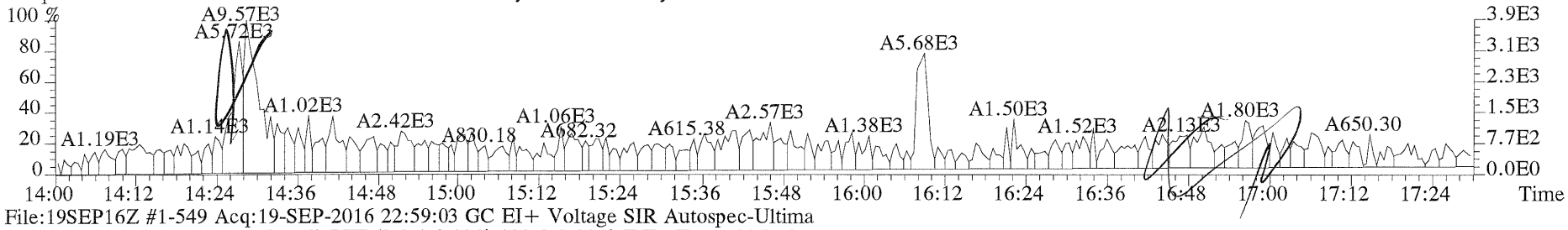
PCB-127	*	*	n	NotFnd	1.07	*		460	628	5.32	
PCB-126	*	*	n	NotFnd	1.17	*		460	628	6.80	
13C-PCB-126	2.44e+07	1.60	y	42:04	1.27	9630					96.3
PCB-151	3.56e+05	1.17	y	37:44	0.89	181		-	-	*	
PCB-135	1.85e+05	1.19	y	37:55	0.81	103		-	-	*	
PCB-144	8.23e+04	1.38	y	38:02	1.04	35.8		-	-	*	
PCB-147	2.74e+04	1.16	y	38:10	0.96	12.9	J	-	-	*	
PCB-139	1.31e+06	1.30	y	38:23	0.98	603		-	-	*	Co-elute PCB 149
PCB-149	1.31e+06	1.30	y	38:23	0.98	603		-	-	*	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.96	*		500	496	6.42	
PCB-143	6.45e+04	1.42	y	39:00	0.89	32.8		-	-	*	Co-elute PCB 134
PCB-134	6.45e+04	1.42	y	39:00	0.89	32.8		-	-	*	Co-elute PCB 143
PCB-131	3.38e+04	1.18	y	39:16	0.91	16.8	J	-	-	*	Co-elute PCB 133
PCB-133	3.38e+04	1.18	y	39:16	0.91	16.8	J	-	-	*	Co-elute PCB 131
PCB-142	3.52e+06	1.25	y	39:26	0.79	2010		-	-	*	
PCB-165	2.51e+05	1.10	y	39:39	1.07	106		-	-	*	Co-elute PCB 146
PCB-146	2.51e+05	1.10	y	39:39	1.07	106		-	-	*	Co-elute PCB 165
PCB-161	4.10e+05	1.28	y	39:54	1.01	183		-	-	*	Co-elute PCB 132
PCB-132	4.10e+05	1.28	y	39:54	1.01	183		-	-	*	Co-elute PCB 161
PCB-153	1.45e+06	1.25	y	40:02	1.05	625		-	-	*	
PCB-168	*	*	n	NotFnd	1.18	*		500	496	5.27	
PCB-141	1.91e+05	1.16	y	40:43	0.89	97.7		-	-	*	
PCB-137	3.46e+04	1.38	y	41:06	0.85	18.4	J	-	-	*	
PCB-130	7.54e+04	1.22	y	41:11	0.79	43.1		-	-	*	
PCB-138	1.27e+06	1.26	y	41:33	1.19	482		-	-	*	Co-elute PCB 163/164
PCB-163	1.27e+06	1.26	y	41:33	1.19	482		-	-	*	Co-elute PCB 138/164
PCB-164	1.27e+06	1.26	y	41:33	1.19	482		-	-	*	Co-elute PCB 138/163
PCB-158	1.54e+05	1.16	y	41:46	1.18	59.2		-	-	*	Co-elute PCB 160
PCB-160	1.54e+05	1.16	y	41:46	1.18	59.2		-	-	*	Co-elute PCB 158
PCB-129	4.00e+04	1.25	y	42:02	0.73	24.7		-	-	*	
PCB-166	*	*	n	NotFnd	1.11	*		500	496	5.60	
PCB-159	*	*	n	NotFnd	1.20	*		500	496	5.14	
PCB-128	1.45e+05	1.11	y	43:02	1.00	65.7		-	-	*	Co-elute PCB 162
PCB-162	1.45e+05	1.11	y	43:02	1.00	65.7		-	-	*	Co-elute PCB 128
PCB-167	4.09e+04	1.10	y	43:23	1.06	17.0	J	-	-	*	
13C-PCB-167	2.27e+07	1.27	y	43:23	1.15	9940					99.4
PCB-156	8.64e+04	1.21	y	44:39	1.12	36.0		-	-	*	
13C-PCB-156	2.14e+07	1.27	y	44:37	1.10	9740					97.4
PCB-157	*	*	n	NotFnd	1.13	*		500	496	5.63	
13C-PCB-157	2.29e+07	1.25	y	44:52	1.13	10200					102
PCB-169	*	*	n	NotFnd	1.07	*		500	496	6.25	
13C-PCB-169	2.15e+07	1.27	y	46:47	1.05	10200					102

FAL ID: 10146-006-0001-SA Filename: 19SEP16Z Sam:10 Acquired: 19-SEP-16 22:59:03 ICal: DAILY209FAL4-9-19-16
Client ID: LDW-BA-SC-ENR-CC-S010 ConCal: ST091916Z1 EndCal: ST091916Z2
Results: 10146 GC Column: DB1 Amount: 1.000

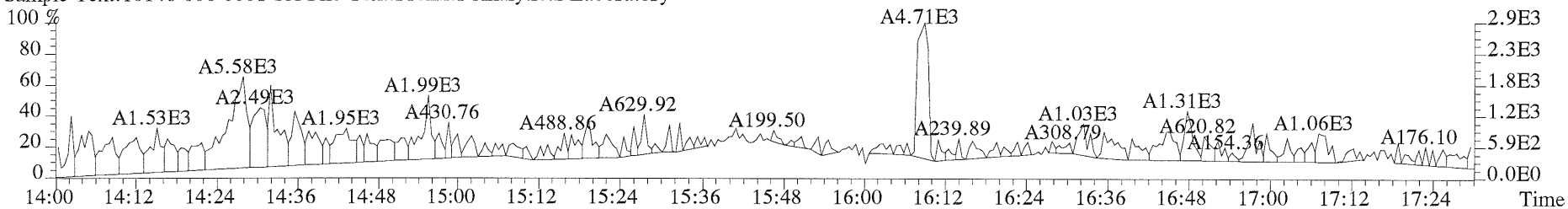
PCB-188	*	*	n	NotFnd	1.25	*		456	348	4.14	
13C-PCB-188	1.72e+07	1.07	y	39:37	0.94	9220					92.2
PCB-184	6.96e+06	1.06	y	40:05	1.39	3110		-	-	*	
PCB-179	1.53e+05	0.96	y	40:48	1.31	72.8		-	-	*	
PCB-176	5.00e+04	1.14	y	41:16	1.28	24.3		-	-	*	
PCB-186	*	*	n	NotFnd	1.28	*		456	348	4.40	
PCB-178	3.82e+04	0.92	y	42:17	0.89	26.9		-	-	*	
PCB-175	*	*	n	NotFnd	0.93	*		456	348	6.02	
PCB-187	2.94e+05	1.01	y	42:47	1.02	180		-	-	*	Co-elute PCB 182
PCB-182	2.94e+05	1.01	y	42:47	1.02	180		-	-	*	Co-elute PCB 187
PCB-183	1.36e+05	1.10	y	43:06	1.02	82.9		-	-	*	
PCB-185	2.23e+04	1.12	y	43:43	0.91	15.2	J	-	-	*	
PCB-174	1.88e+05	1.17	y	44:04	0.94	125		-	-	*	
PCB-181	*	*	n	NotFnd	0.87	*		456	348	6.44	
PCB-177	1.10e+05	1.17	y	44:21	0.80	85.3		-	-	*	
PCB-171	5.16e+04	1.00	y	44:37	0.89	36.1		-	-	*	
PCB-173	*	*	n	NotFnd	0.79	*		456	348	7.10	
PCB-172	1.12e+05	1.03	y	45:23	0.80	87.5		-	-	*	
PCB-192	4.01e+06	1.08	y	45:36	1.09	2290		-	-	*	
PCB-180	3.76e+05	1.08	y	45:48	1.06	220		-	-	*	
PCB-193	3.41e+04	1.06	y	45:56	1.16	18.2	J	-	-	*	
PCB-191	*	*	n	NotFnd	1.11	*		456	348	5.08	
PCB-170	1.22e+05	1.03	y	47:05	0.77	98.6		-	-	*	
PCB-190	3.96e+04	1.16	y	47:15	1.07	23.1		-	-	*	
PCB-189	*	*	n	NotFnd	1.23	*		456	348	5.03	
13C-PCB-189	1.49e+07	1.06	y	48:29	0.70	10700					107
PCB-202	*	*	n	NotFnd	1.05	*		324	360	6.62	
PCB-201	*	*	n	NotFnd	1.05	*		324	360	6.58	
PCB-204	5.17e+06	0.92	y	45:23	1.05	4490		-	-	*	
PCB-197	5.16e+04	0.92	y	45:38	1.09	43.4		-	-	*	
PCB-200	*	*	n	NotFnd	1.01	*		324	360	6.86	
PCB-198	*	*	n	NotFnd	0.70	*		324	360	9.88	
PCB-199	3.71e+04	0.92	y	47:41	0.70	48.5		-	-	*	
PCB-203	3.79e+04	0.88	y	47:58	0.78	44.4		-	-	*	Co-elute PCB 196
PCB-196	3.79e+04	0.88	y	47:58	0.78	44.4		-	-	*	Co-elute PCB 203
13C-PCB-202	1.10e+07	0.93	y	44:45	0.57	9700					97.0
13C-PCB-178	1.29e+07	1.06	y	42:17	0.60	10900					109
13C-PCB-138	1.99e+07	1.25	y	41:31	-	45.8					
PCB-195	2.33e+04	0.80	y	49:06	0.74	16.1	J	-	-	*	
PCB-194	4.08e+04	0.95	y	49:56	0.82	25.3		-	-	*	
PCB-205	*	*	n	NotFnd	1.07	*		580	654	5.38	
13C-PCB-205	1.96e+07	0.91	y	50:11	1.27	9640					96.4
PCB-208	*	*	n	NotFnd	1.03	*		600	640	5.92	
13C-PCB-208	1.63e+07	0.80	y	49:12	1.14	8930					89.3
PCB-207	3.77e+04	1.26	y	49:30	1.15	22.7		-	-	*	
PCB-206	1.24e+04	1.27	y	51:28	1.04	9.41	J	-	-	*	
13C-PCB-206	1.26e+07	0.80	y	51:28	0.75	10500					105
PCB-209	3.97e+04	1.15	y	52:45	1.16	22.8		-	-	*	
13C-PCB-209	1.50e+07	1.21	y	52:44	0.93	10100					101
13C-PCB-194	1.60e+07	0.92	y	49:55	-	43.0					

Analyst: _____ Date: 9/20/16

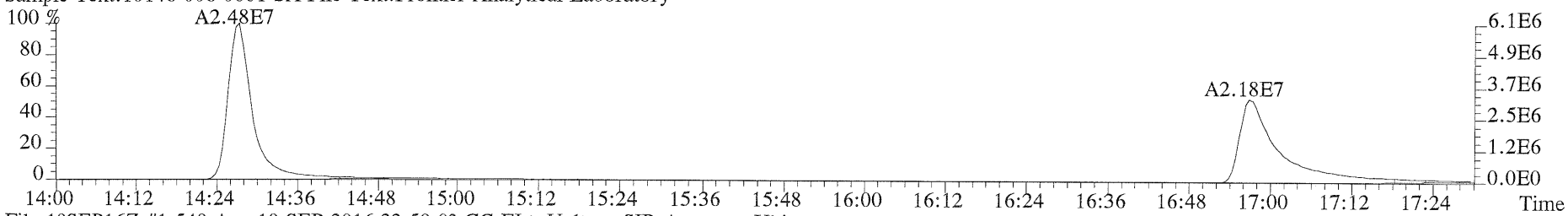
File:19SEP16Z #1-549 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



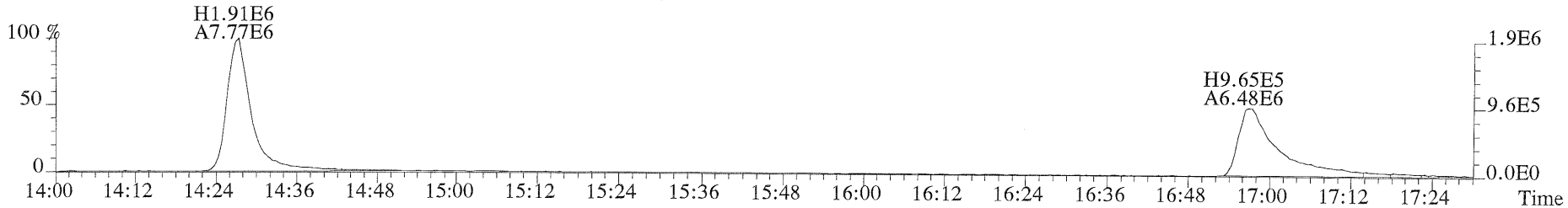
File:19SEP16Z #1-549 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



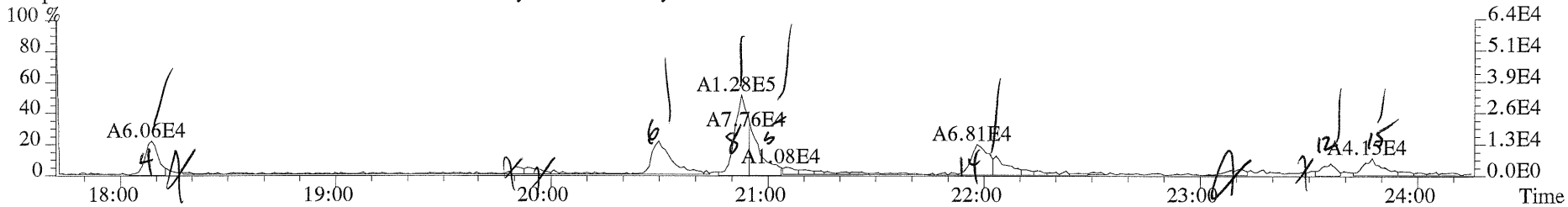
File:19SEP16Z #1-549 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



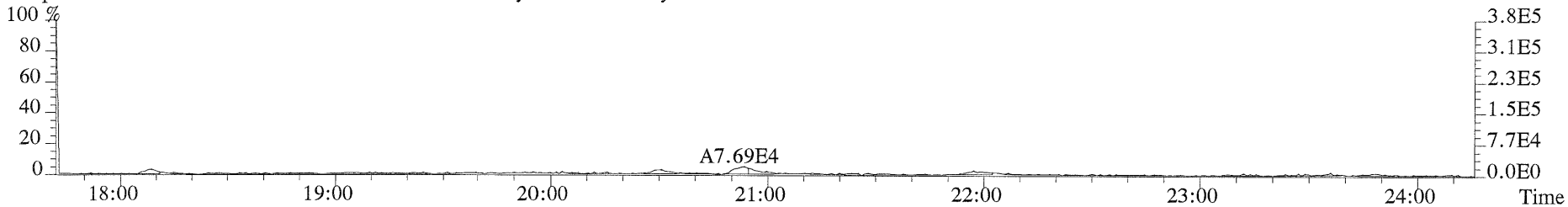
File:19SEP16Z #1-549 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



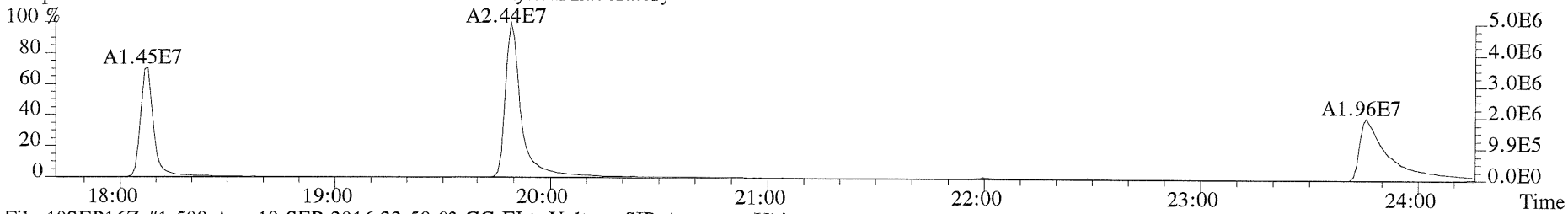
File:19SEP16Z #1-509 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



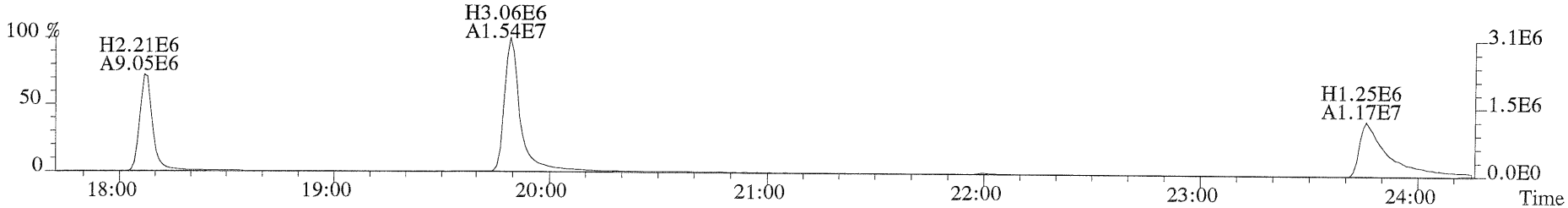
File:19SEP16Z #1-509 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



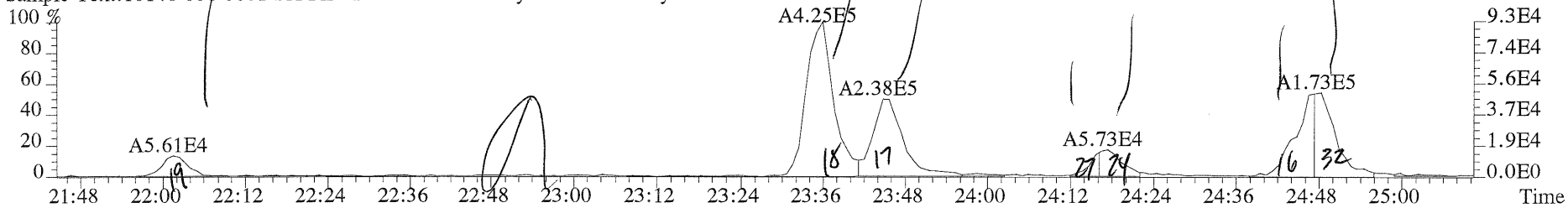
File:19SEP16Z #1-509 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



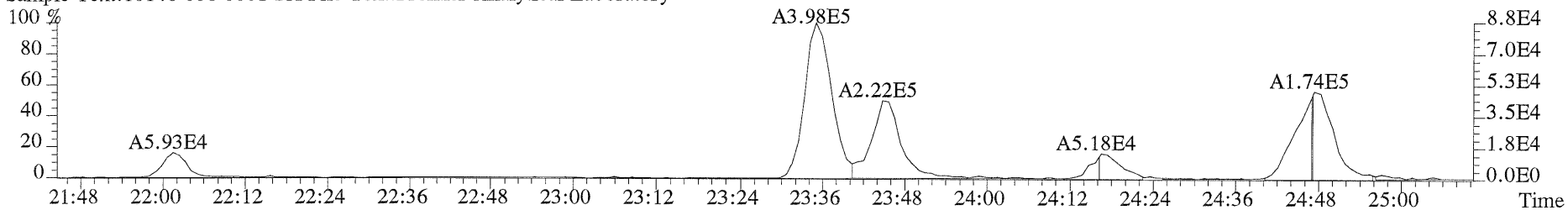
File:19SEP16Z #1-509 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



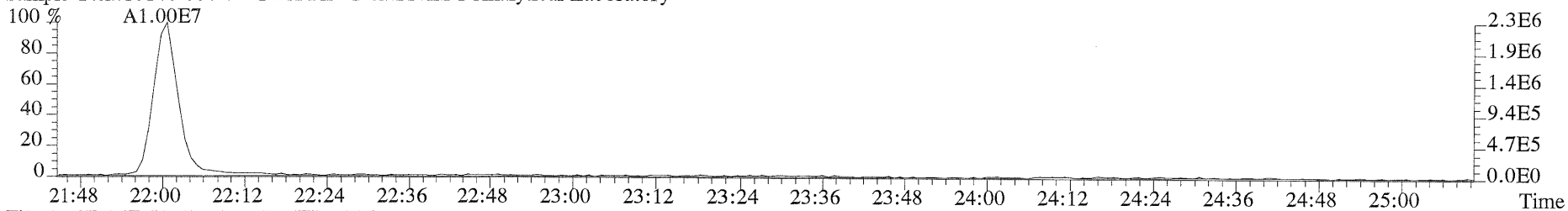
File:19SEP16Z #1-509 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



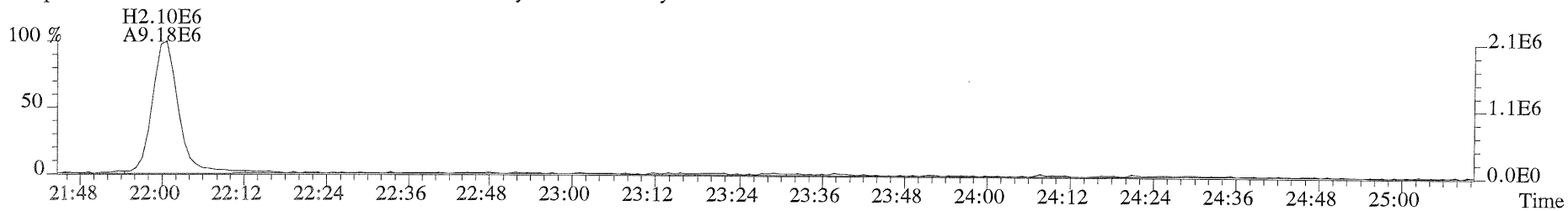
File:19SEP16Z #1-509 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



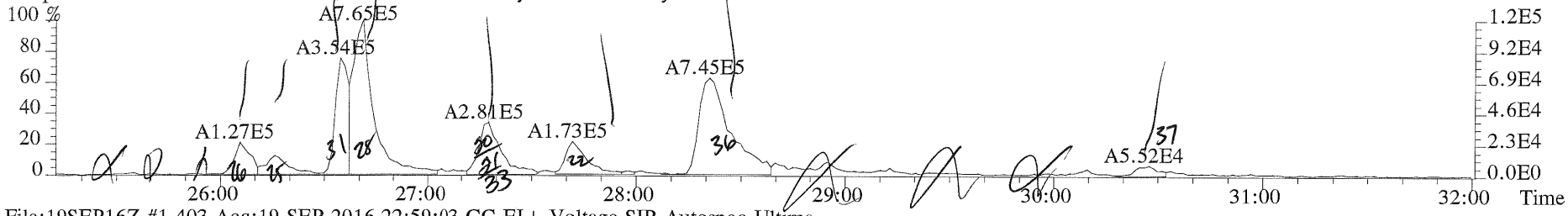
File:19SEP16Z #1-509 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



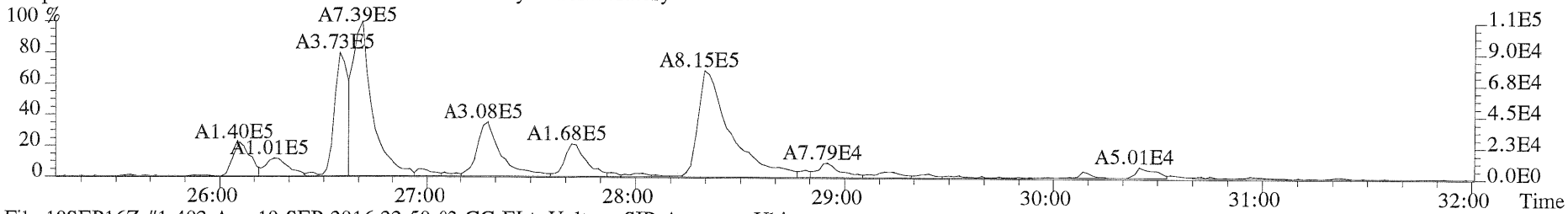
File:19SEP16Z #1-509 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



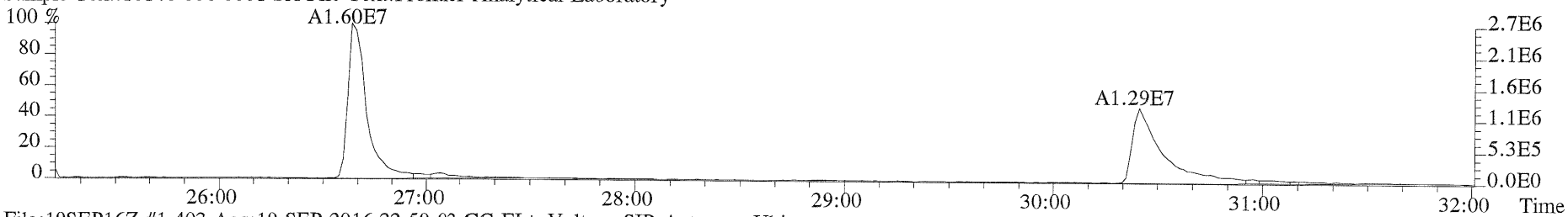
File:19SEP16Z #1-403 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



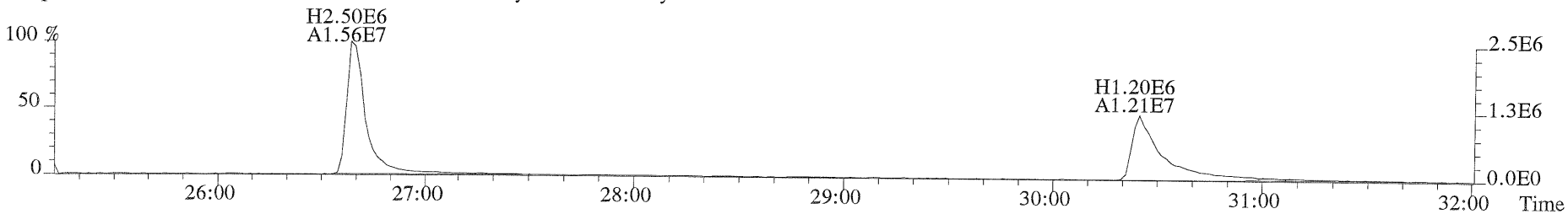
File:19SEP16Z #1-403 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



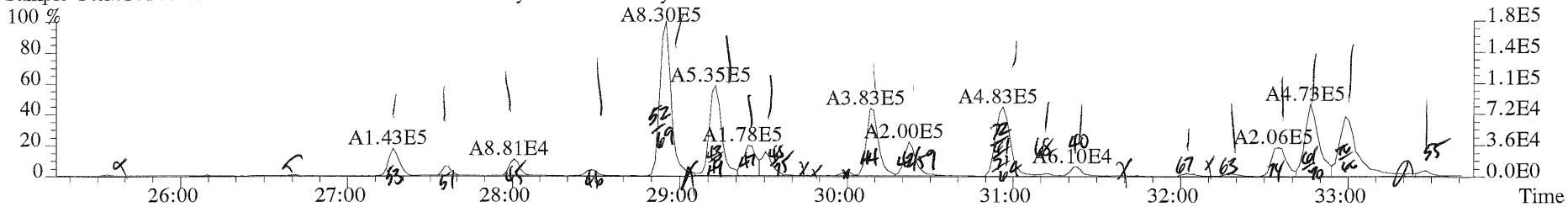
File:19SEP16Z #1-403 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



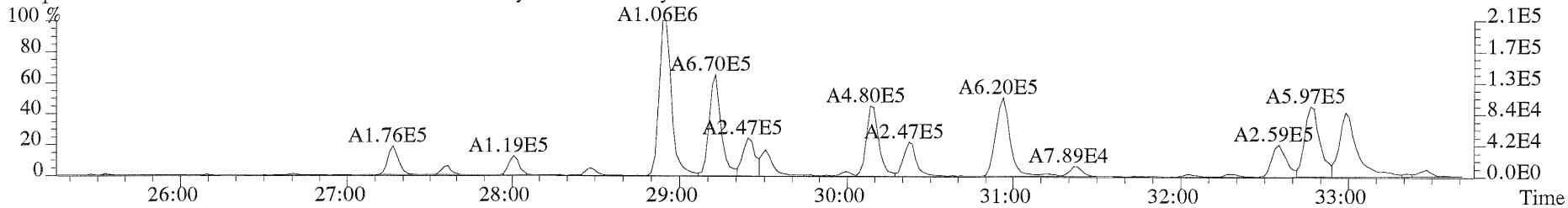
File:19SEP16Z #1-403 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



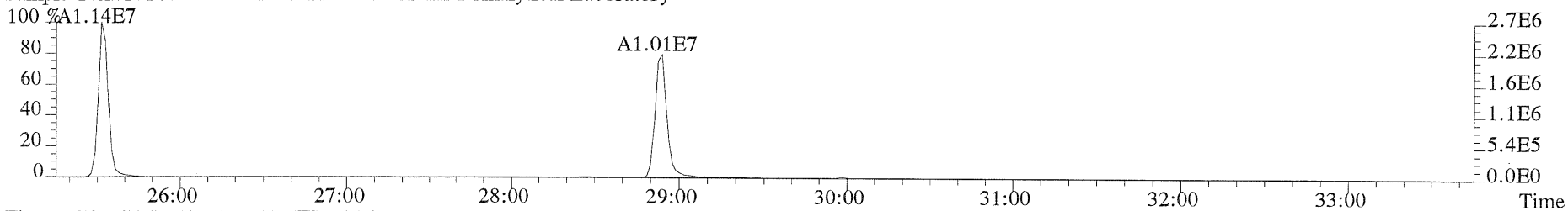
File:19SEP16Z #1-403 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



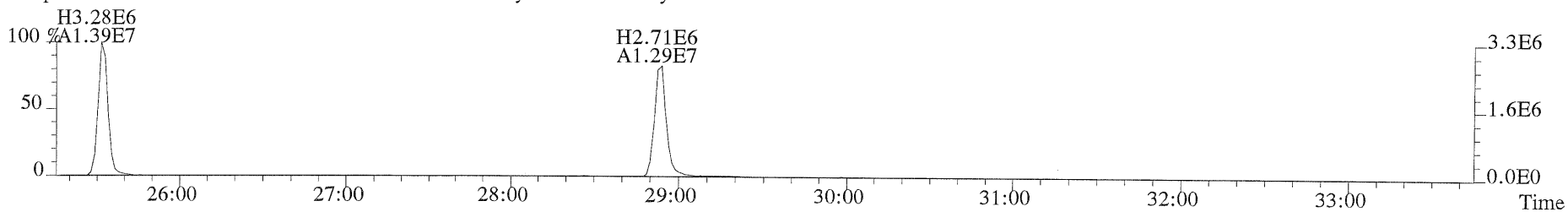
File:19SEP16Z #1-403 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



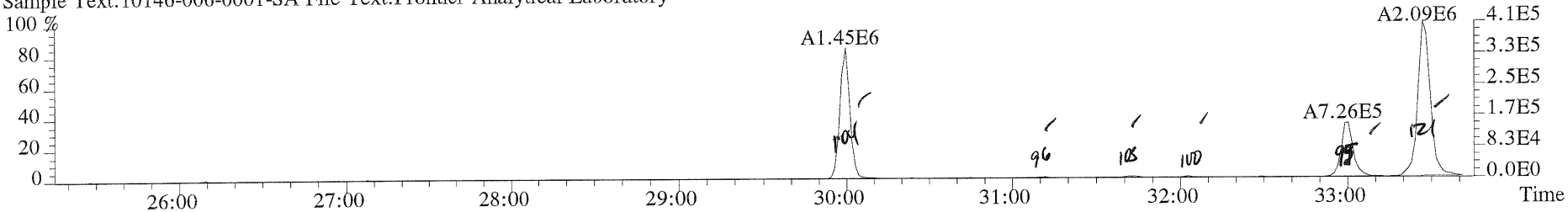
File:19SEP16Z #1-403 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



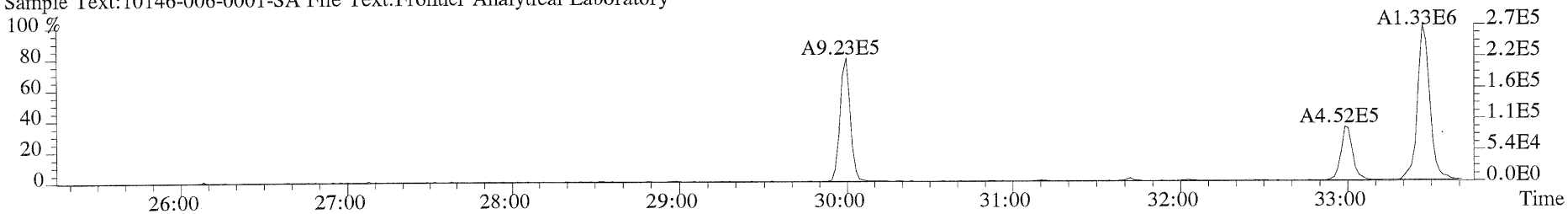
File:19SEP16Z #1-403 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



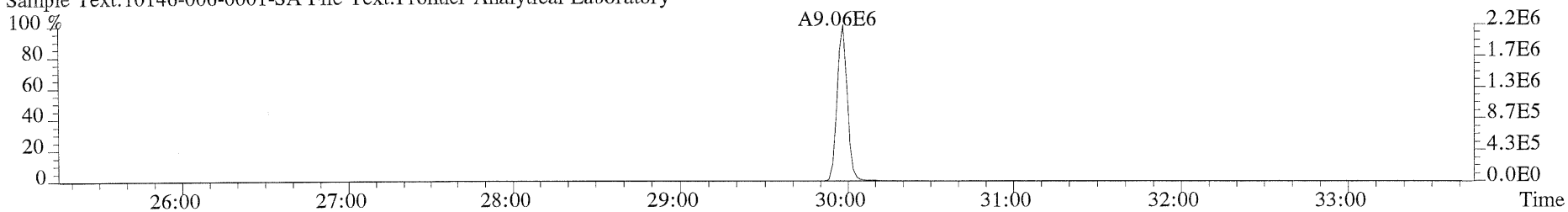
File:19SEP16Z #1-403 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



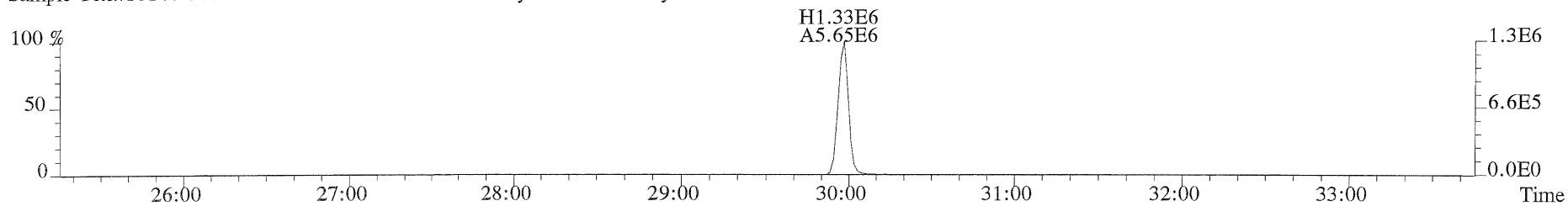
File:19SEP16Z #1-403 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



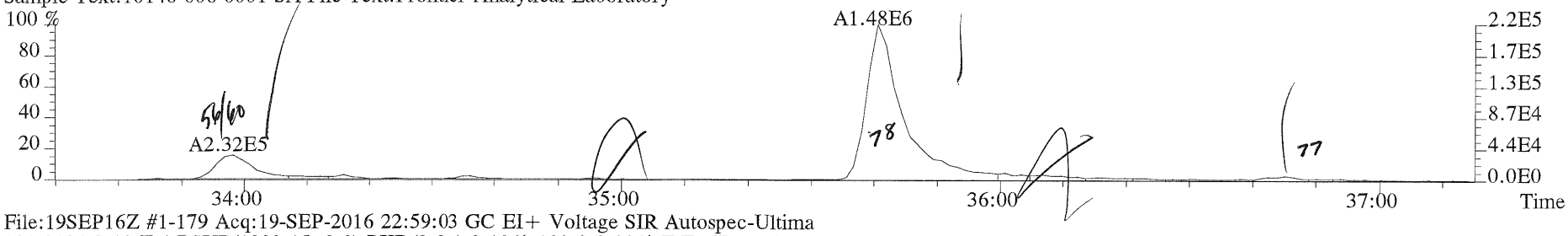
File:19SEP16Z #1-403 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



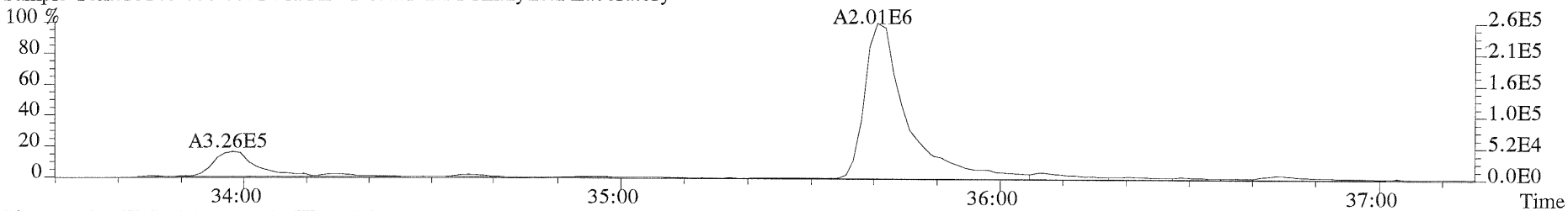
File:19SEP16Z #1-403 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



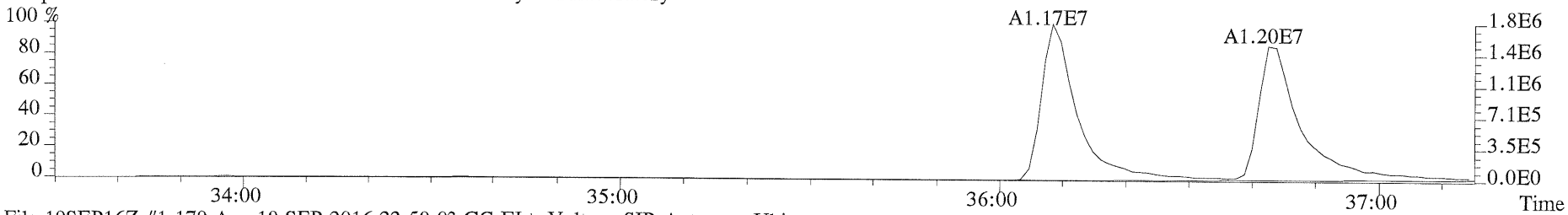
File:19SEP16Z #1-179 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



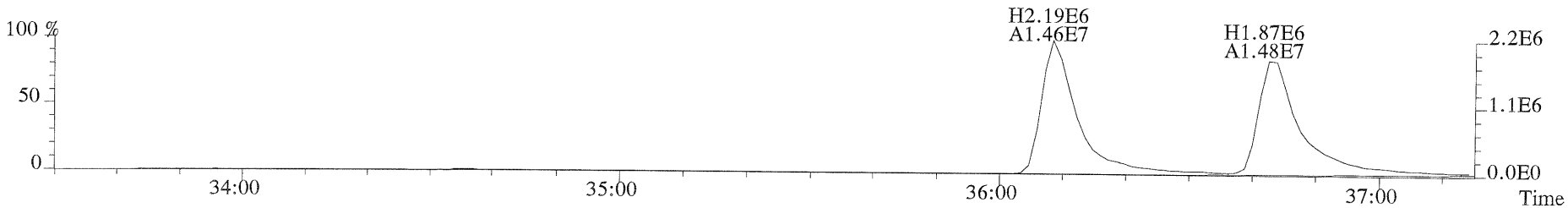
File:19SEP16Z #1-179 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



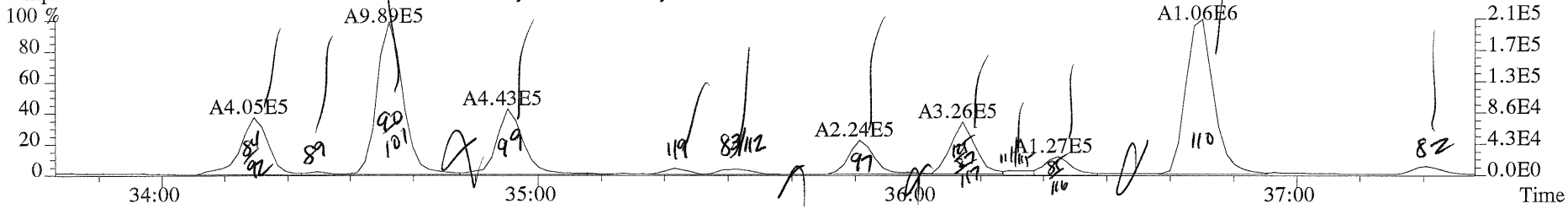
File:19SEP16Z #1-179 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



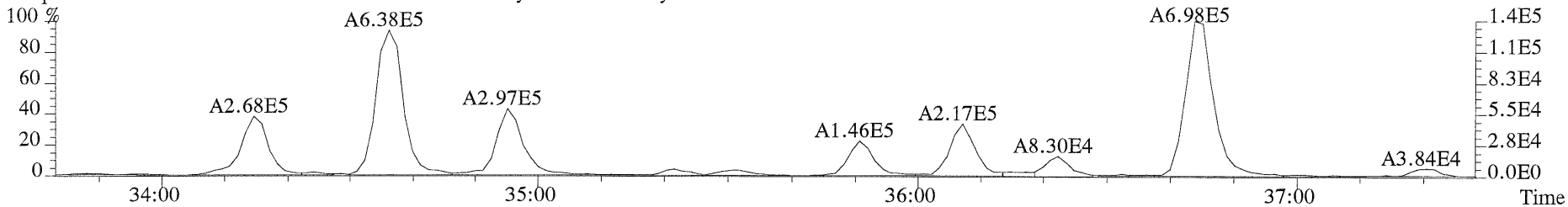
File:19SEP16Z #1-179 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



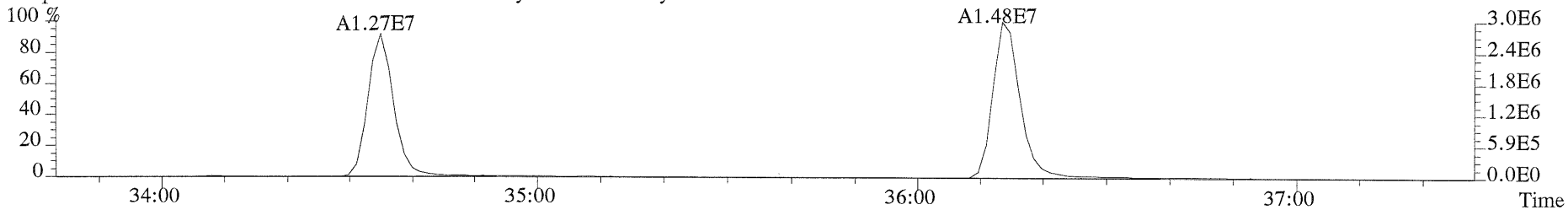
File:19SEP16Z #1-179 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



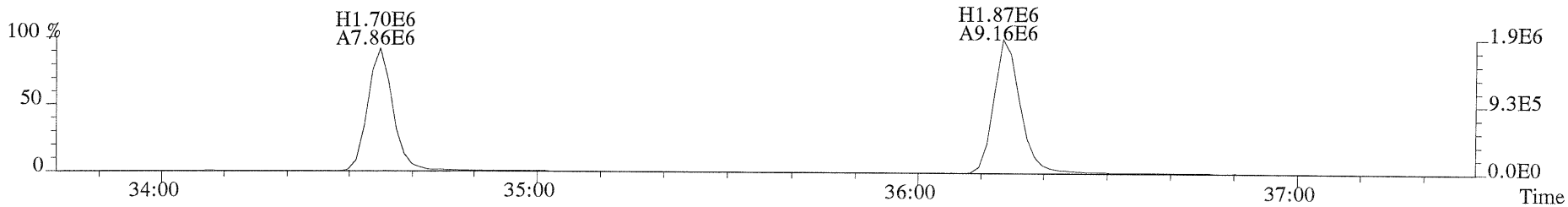
File:19SEP16Z #1-179 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



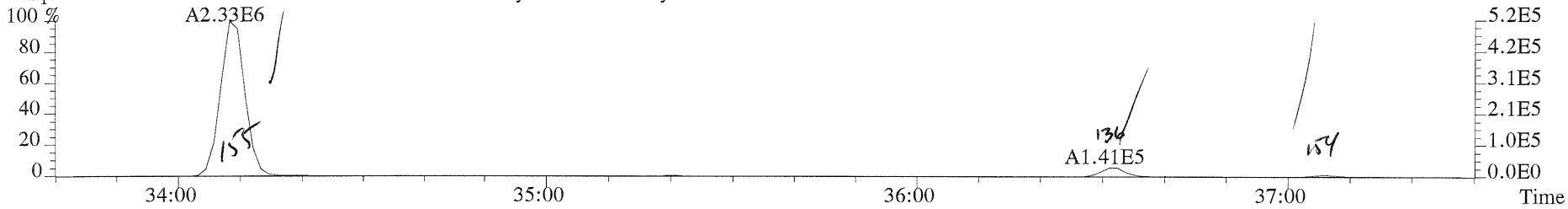
File:19SEP16Z #1-179 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



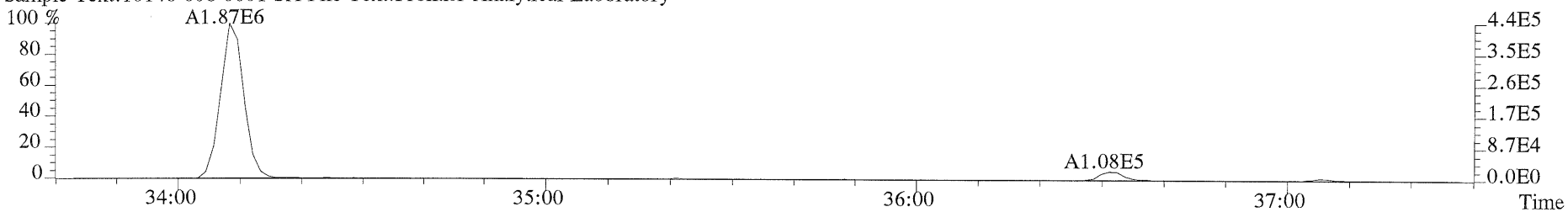
File:19SEP16Z #1-179 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



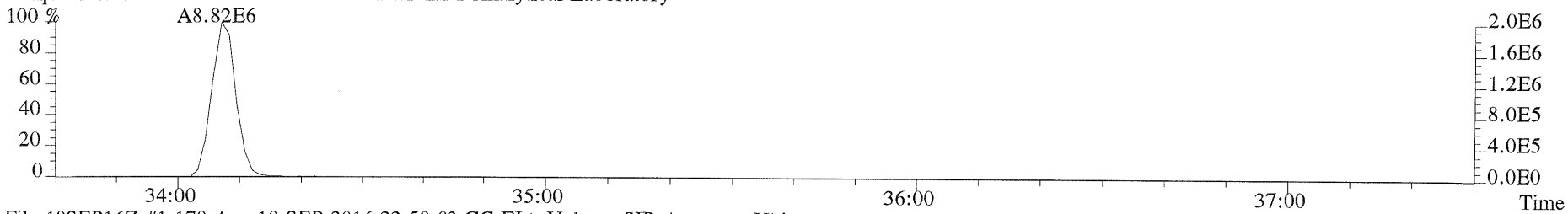
File:19SEP16Z #1-179 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



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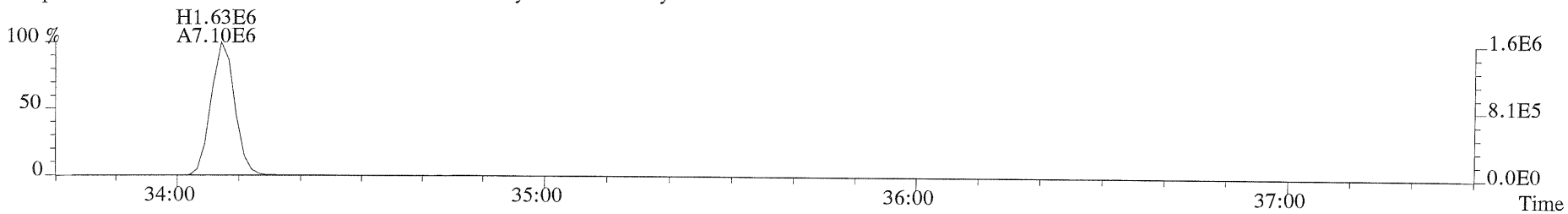
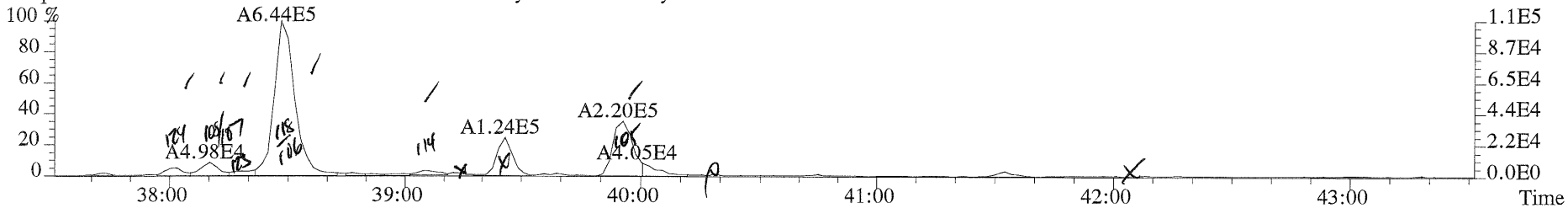
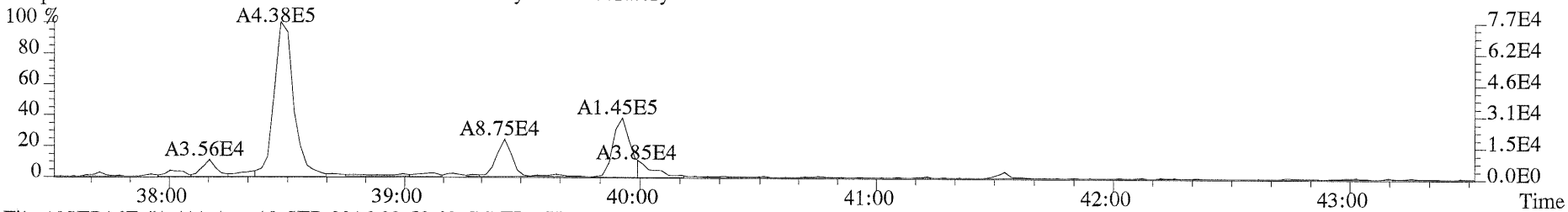
373.8788 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



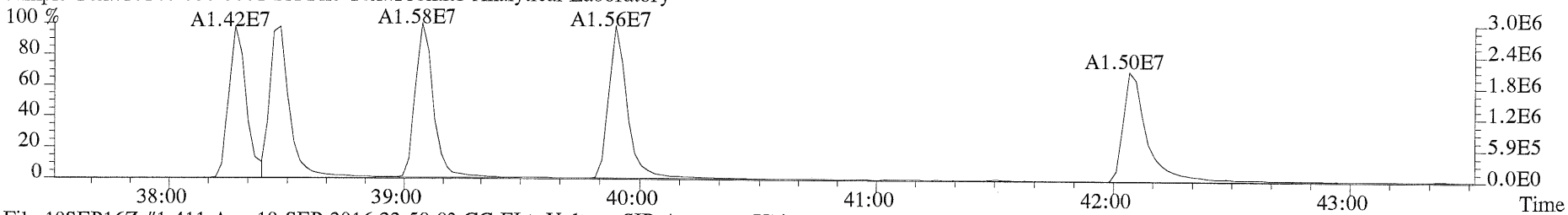
File:19SEP16Z #1-411 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



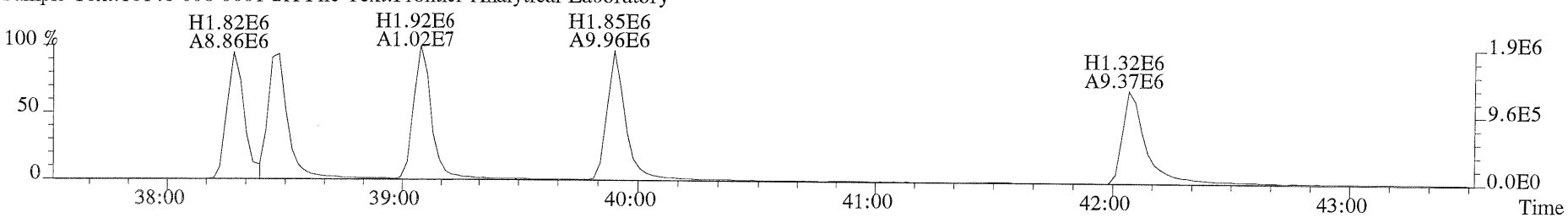
File:19SEP16Z #1-411 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



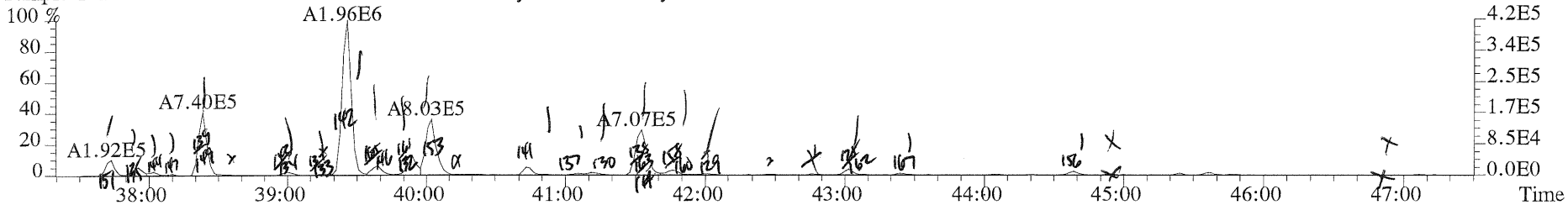
File:19SEP16Z #1-411 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



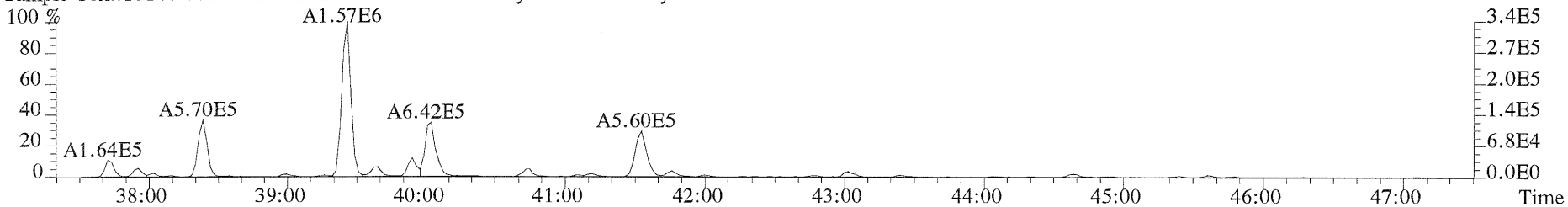
File:19SEP16Z #1-411 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



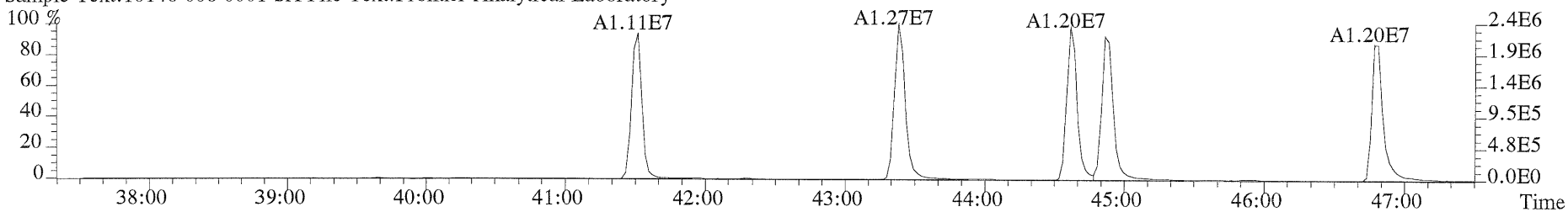
File:19SEP16Z #1-411 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



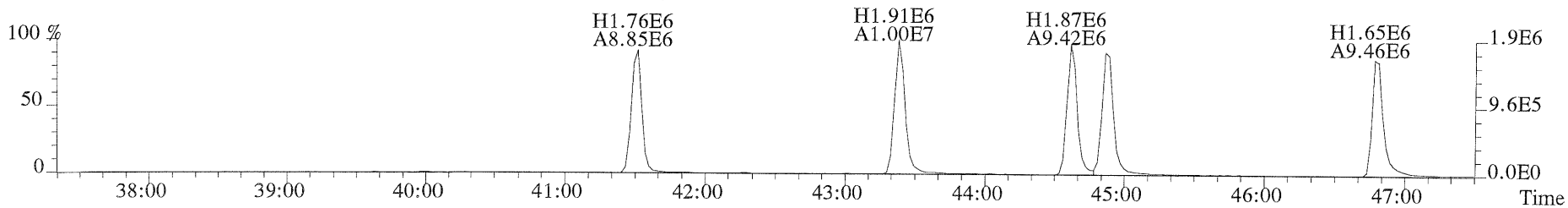
File:19SEP16Z #1-411 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



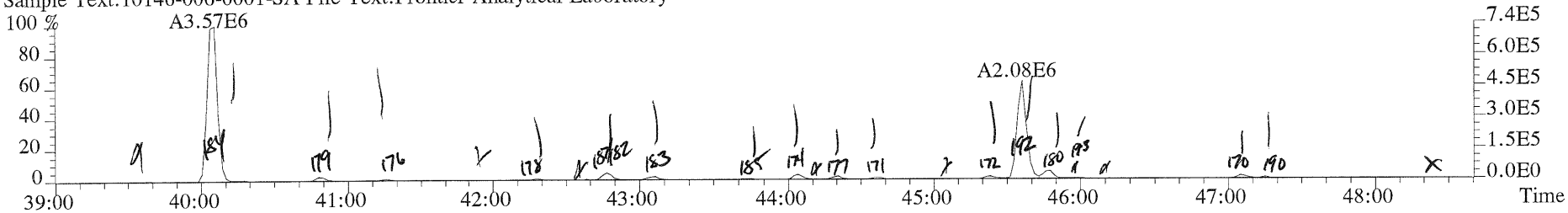
File:19SEP16Z #1-411 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



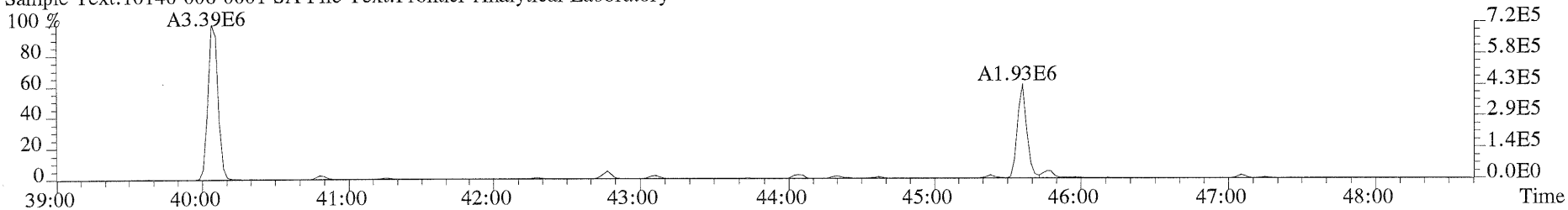
File:19SEP16Z #1-411 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



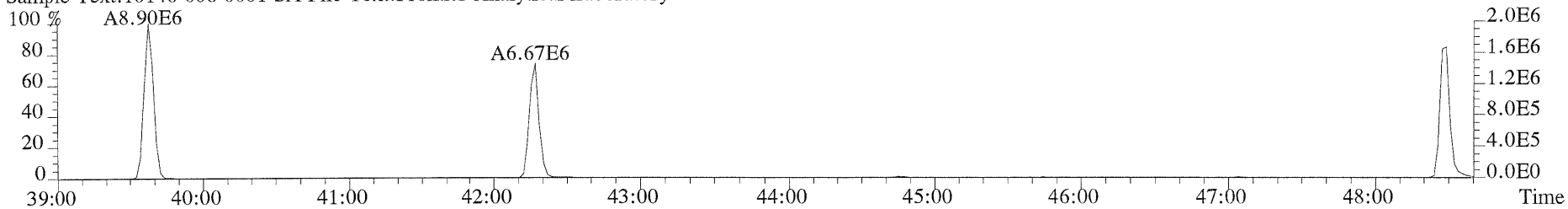
File:19SEP16Z #1-411 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



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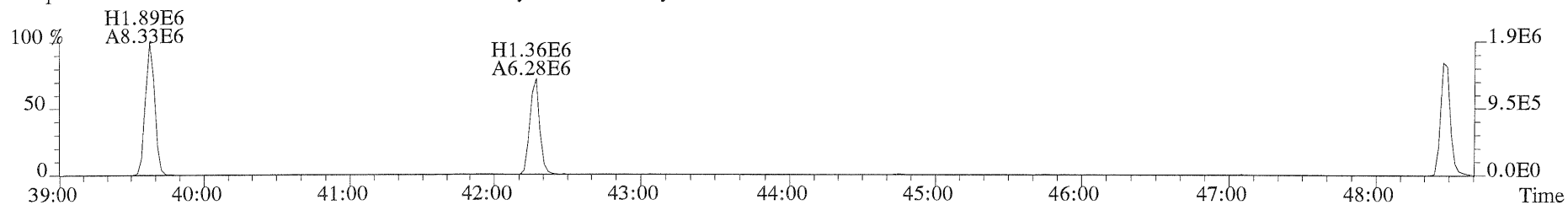
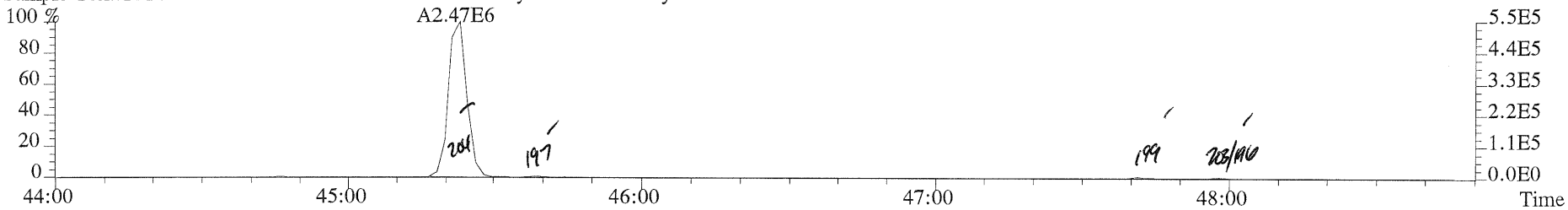
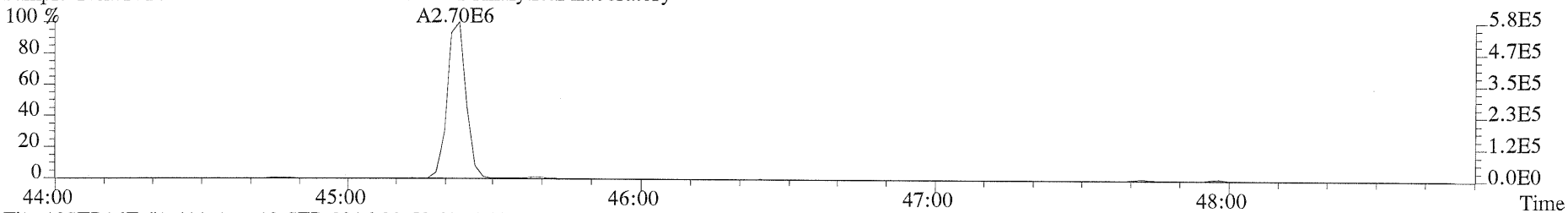
407.8398 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



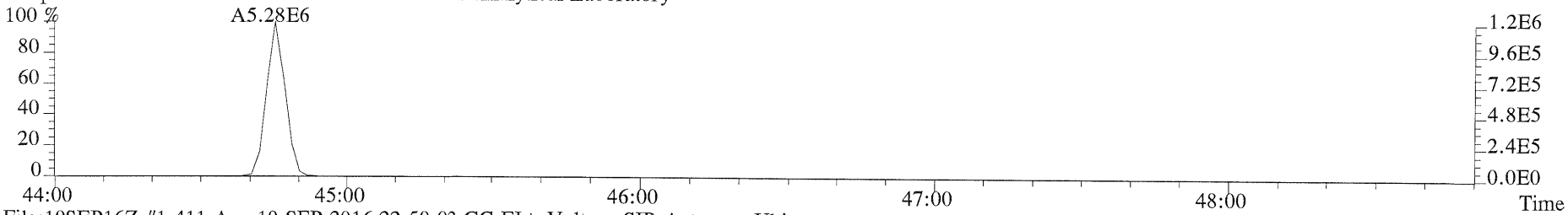
File:19SEP16Z #1-411 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



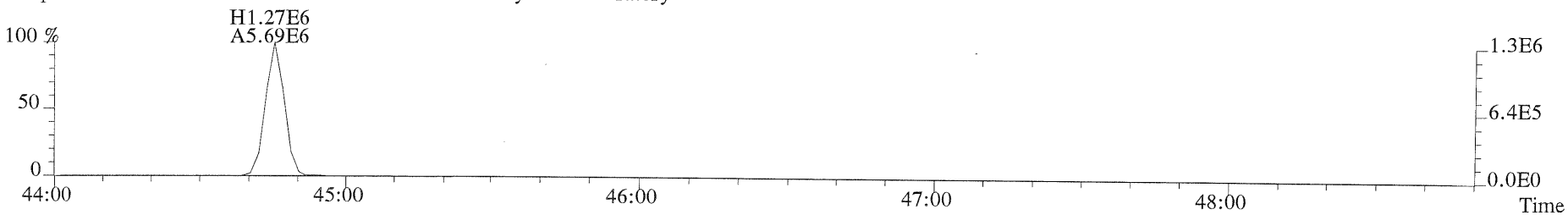
File:19SEP16Z #1-411 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



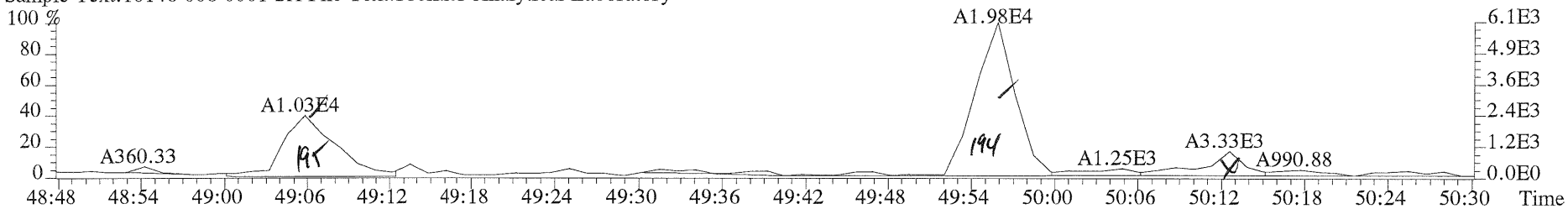
File:19SEP16Z #1-411 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



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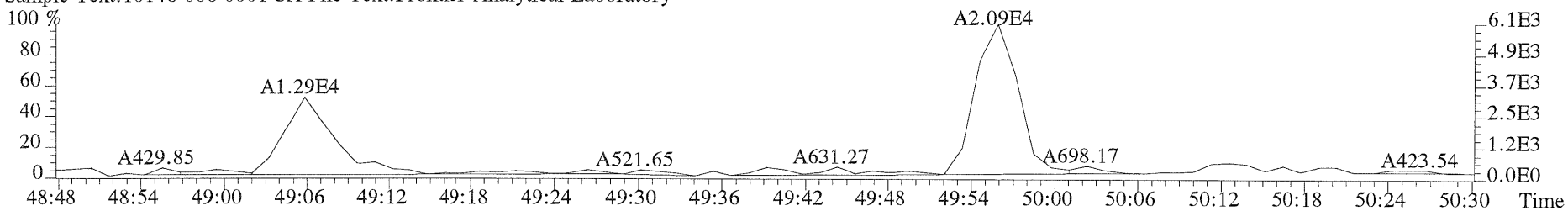
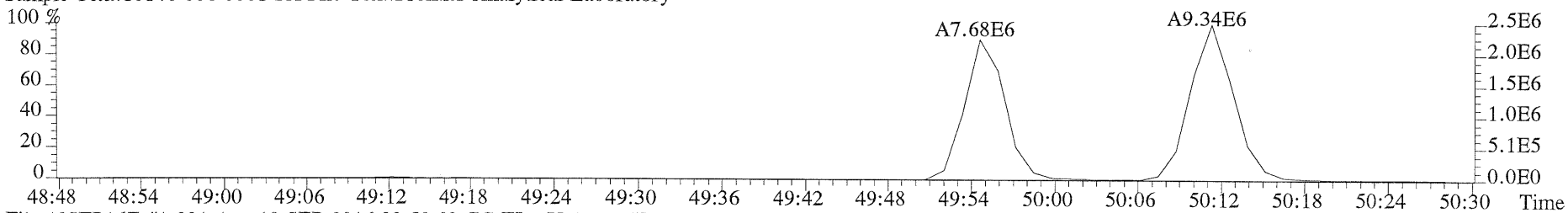
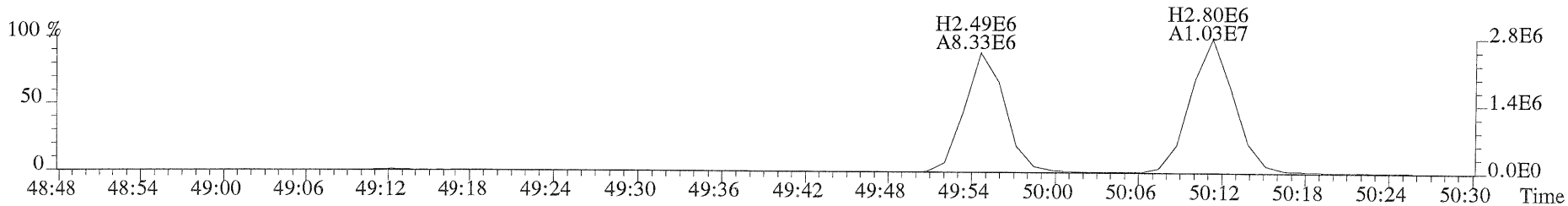
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



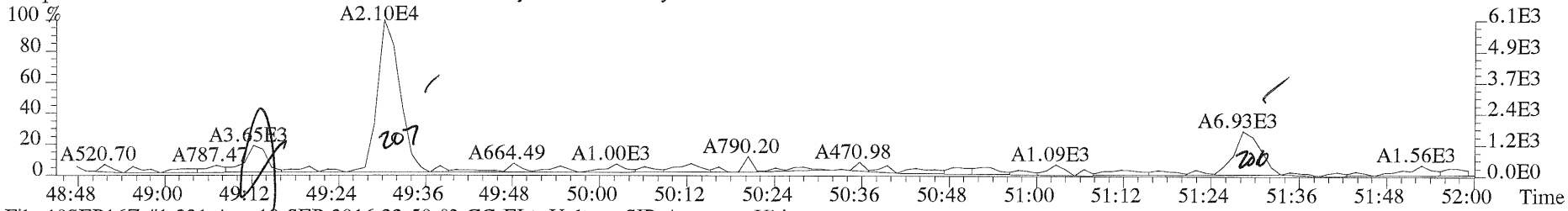
File:19SEP16Z #1-221 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



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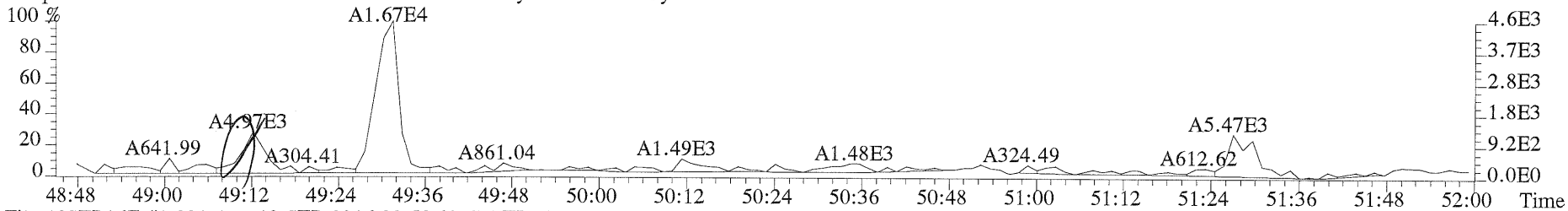
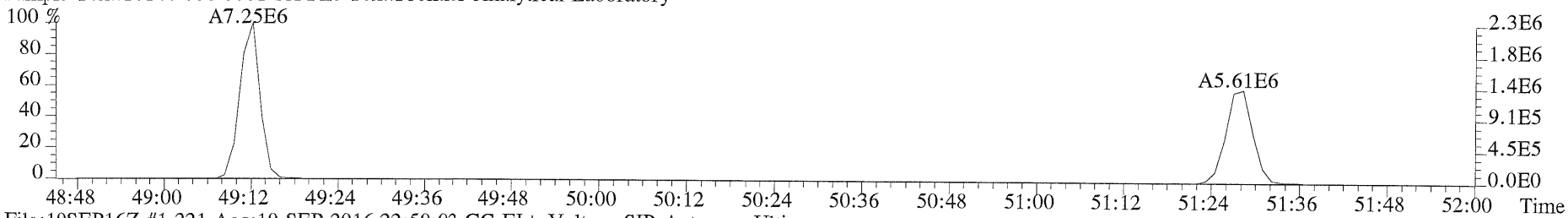
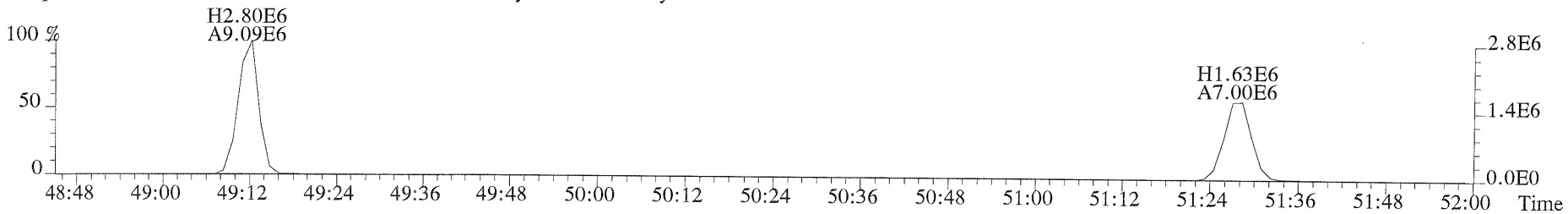
465.7187 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



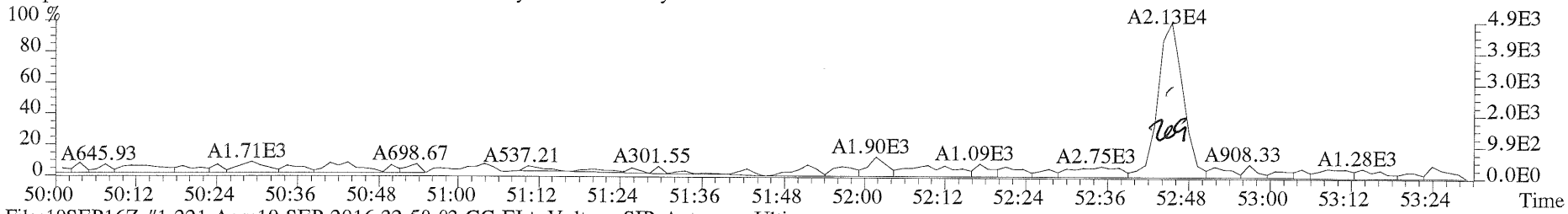
File:19SEP16Z #1-221 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



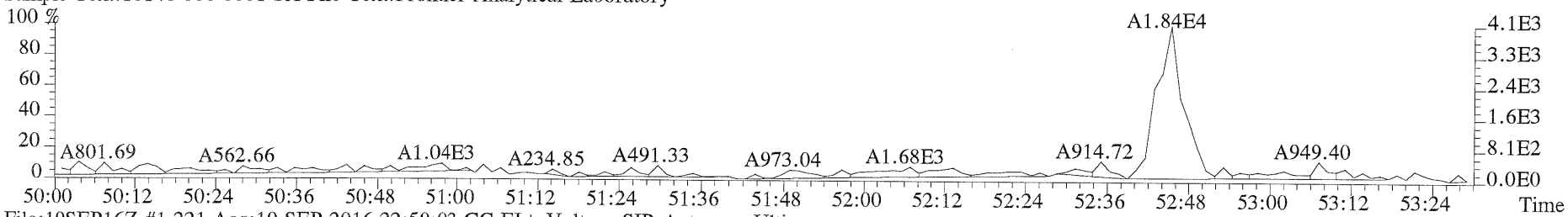
File:19SEP16Z #1-221 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



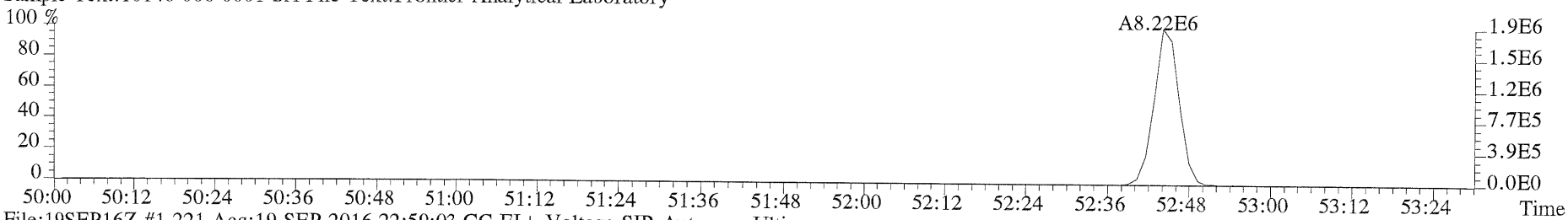
File:19SEP16Z #1-221 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 22:59:03 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



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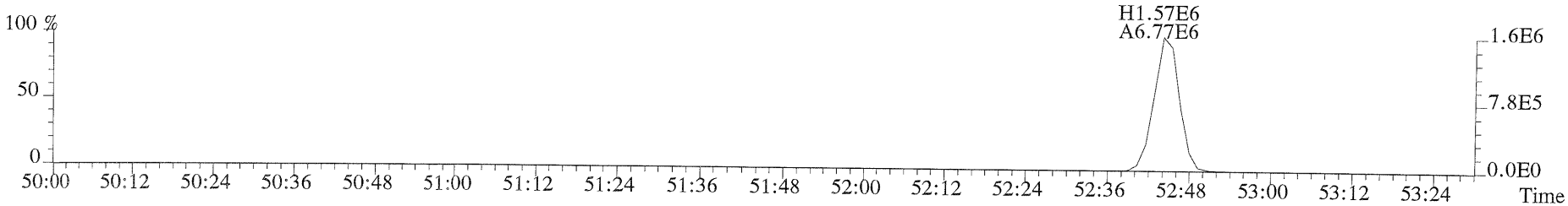
Sample Text:10146-006-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10146-007-0001-SA Filename: 21SEP16Z Sam:5 Acquired: 21-SEP-16 19:51:45 ICal: DAILY209FAL4-9-21-16
Client ID: LDW-BA-IN-ENR+AC-CA-S010 ConCal: ST092116Z1 EndCal: ST092116Z2
Results: 10146-2 GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	2.15e+05	2.85 y	14:32	0.97	52.4		-	-	*	
13C-PCB-1	4.21e+07	3.11 y	14:31	1.18	9300					93.0
PCB-2	*	* n	NotFnd	0.80	*		1050	1090	9.23	
PCB-3	*	* n	NotFnd	1.06	*		1050	1090	9.44	
13C-PCB-3	3.58e+07	3.10 y	17:01	1.07	8680					86.8
PCB-4	1.19e+06	1.57 y	18:13	1.17	452		-	-	*	
PCB-10	2.94e+05	1.58 y	18:16	1.26	89.4		-	-	*	
13C-PCB-4	2.26e+07	1.56 y	18:11	0.63	9270					92.7
PCB-9	3.21e+05	1.56 y	19:56	1.13	109		-	-	*	
PCB-7	4.38e+05	1.42 y	19:58	1.45	116		-	-	*	
PCB-6	4.11e+06	1.49 y	20:33	1.35	1170		-	-	*	
PCB-8	2.40e+06	1.62 y	20:56	1.36	676		-	-	*	
PCB-5	2.32e+06	1.53 y	20:57	1.21	733		-	-	*	
PCB-14	3.00e+05	1.38 y	22:07	1.31	87.4		-	-	*	
PCB-11	*	* n	NotFnd	1.12	*		940	946	10.8	
PCB-13	*	* n	NotFnd	1.02	*		940	946	11.9	
PCB-12	1.01e+06	1.49 y	23:39	1.24	312		-	-	*	
PCB-15	8.60e+05	1.46 y	23:49	1.23	236		-	-	*	
13C-PCB-15	2.97e+07	1.57 y	23:49	0.89	8660					86.6
PCB-19	2.24e+06	1.00 y	22:05	1.05	828		-	-	*	
PCB-30	*	* n	NotFnd	1.46	*		2060	912	8.28	
PCB-18	2.67e+07	1.02 y	23:39	0.98	10600		-	-	*	
PCB-17	1.16e+07	1.03 y	23:49	1.11	4070		-	-	*	
PCB-27	1.38e+06	0.99 y	24:21	1.36	394		-	-	*	
PCB-24	9.72e+05	1.16 y	24:22	1.45	261		-	-	*	
PCB-16	7.23e+06	1.02 y	24:50	1.15	2440		-	-	*	
PCB-32	8.20e+06	1.04 y	24:51	1.31	2450		-	-	*	
13C-PCB-19	2.56e+07	1.09 y	22:04	0.67	9900					99.0
13C-PCB-9	3.85e+07	1.61 y	19:53	-	40.9					
PCB-34	3.18e+05	1.10 y	25:38	1.30	101		-	-	*	
PCB-23	8.57e+04	0.99 y	25:42	1.61	21.9		-	-	*	
PCB-29	1.08e+05	1.15 y	25:58	1.36	32.7		-	-	*	
PCB-26	3.49e+07	1.03 y	26:08	1.47	9770		-	-	*	
PCB-25	1.22e+07	1.04 y	26:18	1.79	2800		-	-	*	
PCB-31	1.61e+07	1.01 y	26:39	1.39	4810		-	-	*	
PCB-28	1.96e+07	1.03 y	26:44	1.84	4380		-	-	*	
PCB-20	1.13e+07	1.04 y	27:20	1.52	3070		-	-	*	Co-elute PCB 21/33
PCB-21	1.13e+07	1.04 y	27:20	1.52	3070		-	-	*	Co-elute PCB 20/33
PCB-33	1.13e+07	1.04 y	27:20	1.52	3070		-	-	*	Co-elute PCB 20/21
PCB-22	5.02e+06	1.05 y	27:44	1.45	1430		-	-	*	
PCB-36	1.58e+06	1.03 y	28:24	1.27	513		-	-	*	
PCB-39	*	* n	NotFnd	1.32	*		878	697	12.6	
PCB-38	*	* n	NotFnd	1.29	*		878	697	12.9	
PCB-35	*	* n	NotFnd	1.25	*		878	697	13.3	
PCB-37	1.15e+06	1.05 y	30:27	1.35	353		-	-	*	
13C-PCB-37	2.42e+07	1.14 y	30:29	0.84	10300					103

PCB-54	1.35e+05	0.75	y	25:37	1.03	46.5	-	-	*	
PCB-50	2.37e+05	0.76	y	26:44	0.76	111	-	-	*	
PCB-53	6.50e+06	0.79	y	27:20	0.77	3000	-	-	*	
PCB-51	1.77e+06	0.79	y	27:41	0.77	816	-	-	*	
PCB-45	5.09e+06	0.76	y	28:05	0.68	2660	-	-	*	
PCB-46	2.13e+06	0.77	y	28:32	0.63	1200	-	-	*	
PCB-52	1.24e+08	0.78	y	28:58	0.90	49200	-	-	*	Co-elute PCB 69
PCB-69	1.24e+08	0.78	y	28:58	0.90	49200	-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	0.91	*	1630	1320	12.4	
PCB-43	5.51e+07	0.77	y	29:15	0.72	27300	-	-	*	Co-elute PCB 49
PCB-49	5.51e+07	0.77	y	29:15	0.72	27300	-	-	*	Co-elute PCB 43
PCB-47	1.17e+07	0.78	y	29:28	0.85	4840	-	-	*	
PCB-48	6.34e+06	0.86	y	29:34	0.90	2480	-	-	*	Co-elute PCB 75
PCB-75	6.34e+06	0.86	y	29:34	0.90	2480	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.95	*	1630	1320	11.9	
PCB-62	*	*	n	NotFnd	0.90	*	1630	1320	12.5	
PCB-44	4.06e+07	0.78	y	30:12	0.64	22400	-	-	*	
PCB-42	1.41e+07	0.78	y	30:26	0.84	5910	-	-	*	Co-elute PCB 59
PCB-59	1.41e+07	0.78	y	30:26	0.84	5910	-	-	*	Co-elute PCB 42
PCB-72	2.81e+07	0.77	y	30:59	0.91	10900	-	-	*	Co-elute PCB 41/71/64
PCB-41	2.81e+07	0.77	y	30:59	0.91	10900	-	-	*	Co-elute PCB 72/71/64
PCB-71	2.81e+07	0.77	y	30:59	0.91	10900	-	-	*	Co-elute PCB 72/41/64
PCB-64	2.81e+07	0.77	y	30:59	0.91	10900	-	-	*	Co-elute PCB 72/41/71
PCB-68	8.02e+05	0.81	y	31:15	0.97	292	-	-	*	
PCB-40	3.44e+06	0.76	y	31:26	0.58	2110	-	-	*	
PCB-57	1.74e+06	0.77	y	31:48	0.86	718	-	-	*	
PCB-67	*	*	n	NotFnd	0.92	*	1630	1320	12.3	
PCB-58	3.74e+06	0.79	y	32:06	0.90	1480	-	-	*	
PCB-63	1.64e+06	0.80	y	32:21	0.94	620	-	-	*	
PCB-74	8.41e+06	0.79	y	32:38	0.98	3030	-	-	*	
PCB-61	2.12e+07	0.78	y	32:49	0.95	7860	-	-	*	Co-elute PCB 70
PCB-70	2.12e+07	0.78	y	32:49	0.95	7860	-	-	*	Co-elute PCB 61
PCB-76	1.94e+07	0.78	y	33:02	0.96	7140	-	-	*	Co-elute PCB 66
PCB-66	1.94e+07	0.78	y	33:02	0.96	7140	-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.02	*	1630	1320	11.0	
PCB-55	1.46e+06	0.83	y	33:32	0.91	569	-	-	*	
13C-PCB-54	2.82e+07	0.79	y	25:37	1.20	8360				83.6
PCB-104	3.53e+06	1.57	y	30:03	1.09	1290	-	-	*	
PCB-96	7.82e+05	1.47	y	31:15	1.00	313	-	-	*	
PCB-103	1.12e+06	1.52	y	31:46	0.81	549	-	-	*	
PCB-100	4.03e+05	1.70	y	32:06	0.82	195	-	-	*	
PCB-94	3.40e+05	1.59	y	32:33	0.70	195	-	-	*	
PCB-98	*	*	n	NotFnd	0.86	*	824	1660	12.2	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.86	*	824	1660	12.2	Co-elute PCB 98
PCB-95	6.58e+07	1.59	y	33:03	0.75	35100	-	-	*	
PCB-93	*	*	n	NotFnd	0.71	*	824	1660	14.7	
PCB-88	8.60e+06	1.51	y	33:27	0.74	4640	-	-	*	Co-elute PCB 91
PCB-91	8.60e+06	1.51	y	33:27	0.74	4640	-	-	*	Co-elute PCB 88
PCB-121	5.60e+06	1.60	y	33:29	0.98	2280	-	-	*	
13C-PCB-104	2.51e+07	1.58	y	30:02	0.99	8970				89.7
13C-PCB-28	2.78e+07	1.09	y	26:42	1.11	8880				88.8
13C-PCB-52	2.81e+07	0.79	y	28:56	-	45.5				

PCB-56	6.09e+06	0.77	y	33:60	1.13	2200		-	-	*	Co-elute PCB 60
PCB-60	6.09e+06	0.77	y	33:60	1.13	2200		-	-	*	Co-elute PCB 56
PCB-79	5.06e+05	0.74	y	34:59	1.06	196		-	-	*	
PCB-78	2.50e+06	0.78	y	35:44	0.96	1060		-	-	*	
PCB-81	9.27e+05	0.70	y	36:11	1.05	364		-	-	*	
13C-PCB-81	2.42e+07	0.77	y	36:12	0.97	9510					95.1
PCB-77	8.09e+05	0.71	y	36:48	0.98	335		-	-	*	
13C-PCB-77	2.46e+07	0.81	y	36:46	0.98	9600					96.0
PCB-155	7.06e+06	1.26	y	34:12	1.05	2410		-	-	*	
PCB-150	9.65e+04	1.26	y	35:24	0.95	36.5		-	-	*	
PCB-152	7.27e+04	1.34	y	35:52	0.94	27.6		-	-	*	
PCB-145	3.33e+04	1.33	y	36:16	0.92	12.9	J	-	-	*	
PCB-136	6.88e+06	1.23	y	36:35	0.90	2750		-	-	*	
PCB-148	*	*	n	NotFnd	0.73	*		1060	560	8.17	
PCB-154	4.86e+05	1.24	y	37:09	0.83	209		-	-	*	
13C-PCB-155	2.79e+07	1.26	y	34:11	1.13	9430					94.3
13C-PCB-111	2.87e+07	1.59	y	36:17	1.11	9860					98.6
13C-PCB-101	2.62e+07	1.58	y	34:39	-	45.5					
PCB-84	3.10e+07	1.56	y	34:19	0.88	15000		-	-	*	Co-elute PCB 92
PCB-92	3.10e+07	1.56	y	34:19	0.88	15000		-	-	*	Co-elute PCB 84
PCB-89	8.09e+05	1.39	y	34:29	0.84	410		-	-	*	
PCB-90	4.90e+07	1.53	y	34:40	0.99	21100		-	-	*	Co-elute PCB 101
PCB-101	4.90e+07	1.53	y	34:40	0.99	21100		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.10	*		1710	1530	16.1	
PCB-99	2.25e+07	1.56	y	34:59	1.07	8920		-	-	*	
PCB-119	2.39e+06	1.47	y	35:26	1.18	862		-	-	*	
PCB-83	3.89e+06	1.50	y	35:34	1.00	1660		-	-	*	Co-elute PCB 112
PCB-112	3.89e+06	1.50	y	35:34	1.00	1660		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.18	*		1710	1530	15.1	
PCB-97	1.26e+07	1.55	y	35:55	1.04	5120		-	-	*	
PCB-86	*	*	n	NotFnd	0.96	*		1710	1530	18.5	
PCB-125	2.18e+07	1.55	y	36:10	1.06	8760		-	-	*	Co-elute PCB 87/117
PCB-87	2.18e+07	1.55	y	36:10	1.06	8760		-	-	*	Co-elute PCB 125/117
PCB-117	2.18e+07	1.55	y	36:10	1.06	8760		-	-	*	Co-elute PCB 125/87
PCB-111	1.03e+06	1.56	y	36:20	1.40	314		-	-	*	Co-elute PCB 115
PCB-115	1.03e+06	1.56	y	36:20	1.40	314		-	-	*	Co-elute PCB 111
PCB-85	6.69e+06	1.49	y	36:25	1.01	2820		-	-	*	Co-elute PCB 116
PCB-116	6.69e+06	1.49	y	36:25	1.01	2820		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.18	*		1710	1530	15.0	
PCB-110	6.98e+07	1.54	y	36:48	1.34	22100		-	-	*	
PCB-82	3.62e+06	1.75	y	37:24	0.73	2120		-	-	*	
PCB-124	1.06e+06	1.42	y	38:04	0.98	458		-	-	*	
PCB-108	2.07e+06	1.52	y	38:14	1.05	837		-	-	*	Co-elute PCB 107
PCB-107	2.07e+06	1.52	y	38:14	1.05	837		-	-	*	Co-elute PCB 108
PCB-123	5.49e+05	1.39	y	38:25	1.25	207		-	-	*	
13C-PCB-123	2.12e+07	1.57	y	38:20	1.05	8650					86.5
PCB-118	2.30e+07	1.49	y	38:32	0.96	9600		-	-	*	Co-elute PCB 106
PCB-106	2.30e+07	1.49	y	38:32	0.96	9600		-	-	*	Co-elute PCB 118
13C-PCB-118	2.48e+07	1.56	y	38:32	1.14	9340					93.4
PCB-114	7.04e+05	1.53	y	39:10	1.04	276		-	-	*	
13C-PCB-114	2.45e+07	1.59	y	39:08	1.08	9700					97.0
PCB-122	3.90e+05	1.35	y	39:18	1.05	158		-	-	*	
PCB-105	6.98e+06	1.53	y	39:59	1.03	2850		-	-	*	
13C-PCB-105	2.36e+07	1.54	y	39:57	1.06	9500					95.0

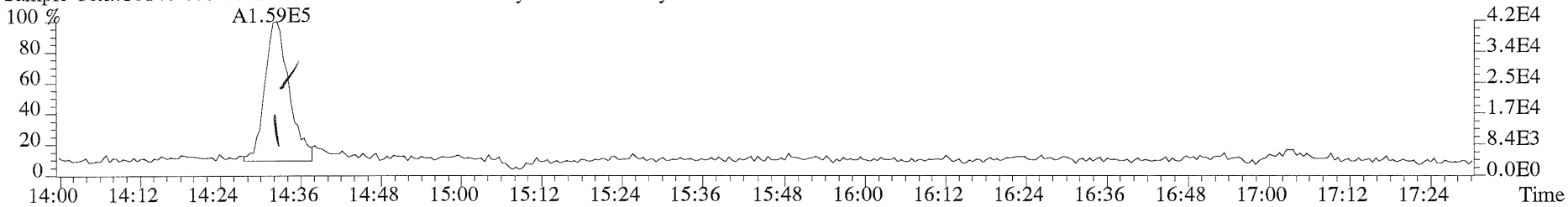
PCB-127	*	*	n	NotFnd	0.95	*	1080	1260	13.5		
PCB-126	*	*	n	NotFnd	1.04	*	1080	1260	18.6		
13C-PCB-126	2.26e+07	1.56	y	42:09	1.00	9630				96.3	
PCB-151	4.98e+06	1.25	y	37:47	0.82	2390	-	-	*		
PCB-135	3.68e+06	1.26	y	37:59	0.73	1990	-	-	*		
PCB-144	1.35e+06	1.28	y	38:05	0.96	557	-	-	*		
PCB-147	8.15e+05	1.25	y	38:14	0.86	374	-	-	*		
PCB-139	2.12e+07	1.25	y	38:27	0.90	9360	-	-	*	Co-elute PCB 149	
PCB-149	2.12e+07	1.25	y	38:27	0.90	9360	-	-	*	Co-elute PCB 139	
PCB-140	2.37e+05	1.27	y	38:38	0.85	111	-	-	*		
PCB-143	1.84e+06	1.28	y	39:05	0.81	905	-	-	*	Co-elute PCB 134	
PCB-134	1.84e+06	1.28	y	39:05	0.81	905	-	-	*	Co-elute PCB 143	
PCB-131	7.89e+05	1.25	y	39:19	0.82	382	-	-	*	Co-elute PCB 133	
PCB-133	7.89e+05	1.25	y	39:19	0.82	382	-	-	*	Co-elute PCB 131	
PCB-142	3.85e+06	1.21	y	39:29	0.69	2200	-	-	*		
PCB-165	3.05e+06	1.24	y	39:42	0.95	1270	-	-	*	Co-elute PCB 146	
PCB-146	3.05e+06	1.24	y	39:42	0.95	1270	-	-	*	Co-elute PCB 165	
PCB-161	9.32e+06	1.23	y	39:57	0.90	4110	-	-	*	Co-elute PCB 132	
PCB-132	9.32e+06	1.23	y	39:57	0.90	4110	-	-	*	Co-elute PCB 161	
PCB-153	1.78e+07	1.25	y	40:05	0.96	7370	-	-	*		
PCB-168	*	*	n	NotFnd	1.05	*	1040	1060	10.5		
PCB-141	3.23e+06	1.27	y	40:47	0.81	1590	-	-	*		
PCB-137	1.00e+06	1.15	y	41:10	0.77	513	-	-	*		
PCB-130	1.67e+06	1.24	y	41:15	0.72	924	-	-	*		
PCB-138	2.21e+07	1.25	y	41:36	1.07	8200	-	-	*	Co-elute PCB 163/164	
PCB-163	2.21e+07	1.25	y	41:36	1.07	8200	-	-	*	Co-elute PCB 138/164	
PCB-164	2.21e+07	1.25	y	41:36	1.07	8200	-	-	*	Co-elute PCB 138/163	
PCB-158	3.08e+06	1.22	y	41:49	1.06	1150	-	-	*	Co-elute PCB 160	
PCB-160	3.08e+06	1.22	y	41:49	1.06	1150	-	-	*	Co-elute PCB 158	
PCB-129	9.90e+05	1.24	y	42:04	0.68	573	-	-	*		
PCB-166	1.36e+05	1.35	y	42:32	1.00	54.0	-	-	*		
PCB-159	1.07e+05	1.18	y	42:50	1.06	40.1	-	-	*		
PCB-128	3.60e+06	1.26	y	43:05	0.88	1620	-	-	*	Co-elute PCB 162	
PCB-162	3.60e+06	1.26	y	43:05	0.88	1620	-	-	*	Co-elute PCB 128	
PCB-167	7.71e+05	1.21	y	43:28	0.96	306	-	-	*		
13C-PCB-167	2.61e+07	1.26	y	43:26	1.16	9590				95.9	
PCB-156	1.61e+06	1.24	y	44:42	1.01	649	-	-	*		
13C-PCB-156	2.45e+07	1.25	y	44:40	1.11	9470				94.7	
PCB-157	4.17e+05	1.42	y	44:57	1.03	154	-	-	*		
13C-PCB-157	2.64e+07	1.24	y	44:57	1.13	10000				100	
PCB-169	*	*	n	NotFnd	0.96	*	1040	1060	12.1		
13C-PCB-169	2.40e+07	1.25	y	46:50	1.05	9810				98.1	

FAL ID: 10146-007-0001-SA Filename: 21SEP16Z Sam:5 Acquired: 21-SEP-16 19:51:45 ICal: DAILY209FAL4-9-21-16
Client ID: LDW-BA-IN-ENR+AC-CA-S010 ConCal: ST092116Z1 EndCal: ST092116Z2
Results: 10146-2 GC Column: DB1 Amount: 1.000

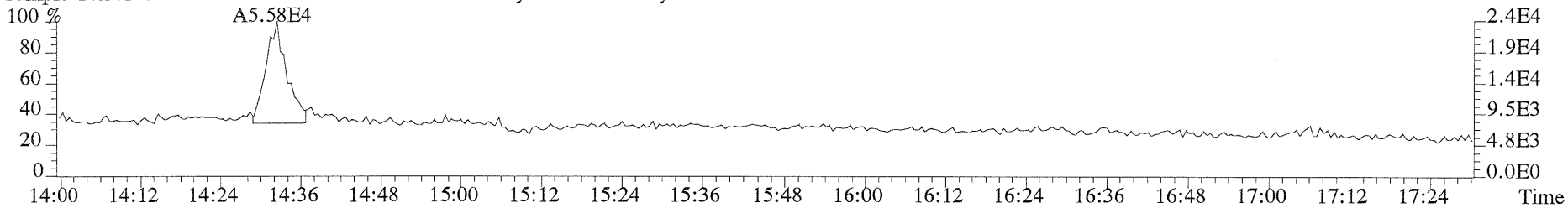
PCB-188	4.01e+04	0.96	y	39:44	1.09	13.8	J	-	-	*	
13C-PCB-188	2.66e+07	1.06	y	39:41	1.29	8790					87.9
PCB-184	9.82e+06	1.05	y	40:09	1.23	3210		-	-	*	
PCB-179	1.50e+06	1.06	y	40:52	1.17	517		-	-	*	
PCB-176	4.43e+05	1.05	y	41:20	1.14	156		-	-	*	
PCB-186	*	*	n	NotFnd	1.14	*		1020	836	6.78	
PCB-178	4.46e+05	1.00	y	42:22	0.82	220		-	-	*	
PCB-175	9.15e+04	1.20	y	42:42	0.85	43.2		-	-	*	
PCB-187	2.37e+06	1.05	y	42:50	0.93	1020		-	-	*	Co-elute PCB 182
PCB-182	2.37e+06	1.05	y	42:50	0.93	1020		-	-	*	Co-elute PCB 187
PCB-183	1.14e+06	1.09	y	43:10	0.92	497		-	-	*	
PCB-185	1.75e+05	1.09	y	43:48	0.84	83.1		-	-	*	
PCB-174	1.86e+06	1.06	y	44:07	0.87	863		-	-	*	
PCB-181	*	*	n	NotFnd	0.84	*		1020	836	9.25	
PCB-177	1.11e+06	1.05	y	44:24	0.77	577		-	-	*	
PCB-171	5.54e+05	1.08	y	44:40	0.82	270		-	-	*	
PCB-173	5.46e+04	1.15	y	45:05	0.75	29.4		-	-	*	
PCB-172	3.90e+05	1.15	y	45:28	0.75	210		-	-	*	
PCB-192	5.66e+06	1.06	y	45:40	1.00	2270		-	-	*	
PCB-180	3.07e+06	1.09	y	45:49	0.98	1260		-	-	*	
PCB-193	2.52e+05	1.01	y	46:01	1.08	93.3		-	-	*	
PCB-191	1.00e+05	1.15	y	46:13	1.04	38.8		-	-	*	
PCB-170	1.34e+06	1.11	y	47:08	0.72	746		-	-	*	
PCB-190	3.51e+05	0.98	y	47:18	0.98	144		-	-	*	
PCB-189	8.43e+04	1.07	y	48:32	1.09	33.1		-	-	*	
13C-PCB-189	2.32e+07	1.07	y	48:31	1.00	9890					98.9
PCB-202	1.10e+05	0.85	y	44:50	0.93	48.3		-	-	*	
PCB-201	7.01e+04	0.91	y	45:18	0.93	30.8		-	-	*	
PCB-204	1.03e+07	0.89	y	45:26	0.93	4550		-	-	*	
PCB-197	1.19e+05	0.86	y	45:43	0.96	50.5		-	-	*	
PCB-200	6.75e+04	1.00	y	46:27	0.91	30.3		-	-	*	
PCB-198	*	*	n	NotFnd	0.61	*		452	536	7.21	
PCB-199	3.24e+05	0.86	y	47:45	0.70	189		-	-	*	
PCB-203	3.49e+05	0.84	y	48:01	0.72	198		-	-	*	Co-elute PCB 196
PCB-196	3.49e+05	0.84	y	48:01	0.72	198		-	-	*	Co-elute PCB 203
13C-PCB-202	2.44e+07	0.92	y	44:49	1.13	9210					92.1
13C-PCB-178	2.01e+07	1.07	y	42:20	0.86	9960					99.6
13C-PCB-138	2.34e+07	1.25	y	41:34	-	48.9					
PCB-195	9.93e+04	0.81	y	49:08	0.79	61.5		-	-	*	
PCB-194	2.33e+05	0.97	y	49:59	0.82	139		-	-	*	
PCB-205	*	*	n	NotFnd	1.08	*		912	932	7.77	
13C-PCB-205	2.04e+07	0.91	y	50:14	1.26	9480					94.8
PCB-208	2.51e+04	1.50	y	49:16	1.02	12.0	J	-	-	*	
13C-PCB-208	2.06e+07	0.80	y	49:15	1.27	9540					95.4
PCB-207	5.10e+04	1.34	y	49:34	1.13	25.6		-	-	*	
PCB-206	5.43e+04	1.48	y	51:31	1.03	36.0		-	-	*	
13C-PCB-206	1.47e+07	0.79	y	51:30	0.90	9520					95.2
PCB-209	6.37e+04	1.17	y	52:48	1.06	28.7		-	-	*	
13C-PCB-209	2.10e+07	1.19	y	52:48	1.37	8970					89.7
13C-PCB-194	1.71e+07	0.92	y	49:59	-	50.1					

Analyst: _____ Date: 9/23/16

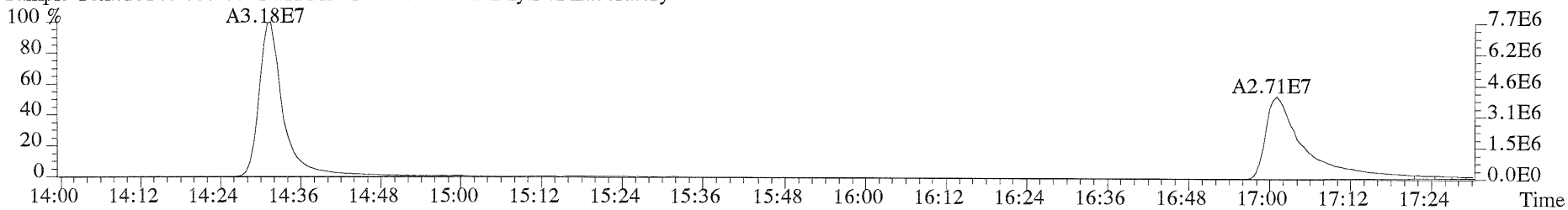
File:21SEP16Z #1-549 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



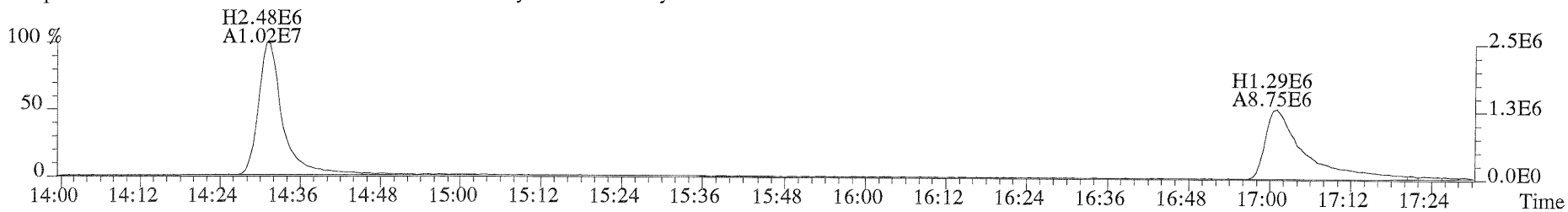
File:21SEP16Z #1-549 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



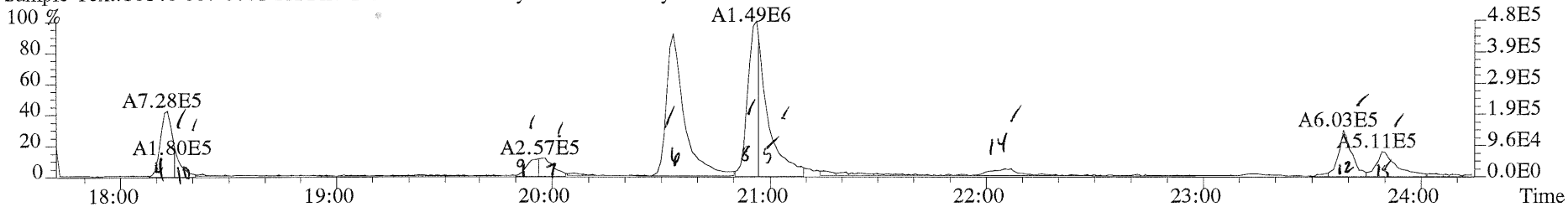
File:21SEP16Z #1-549 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



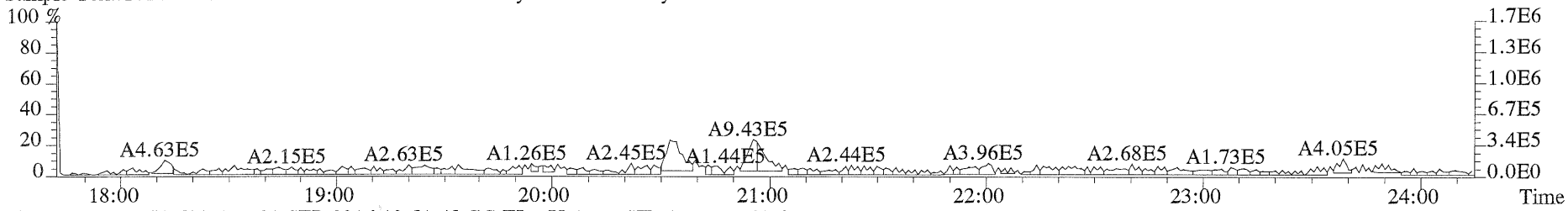
File:21SEP16Z #1-549 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



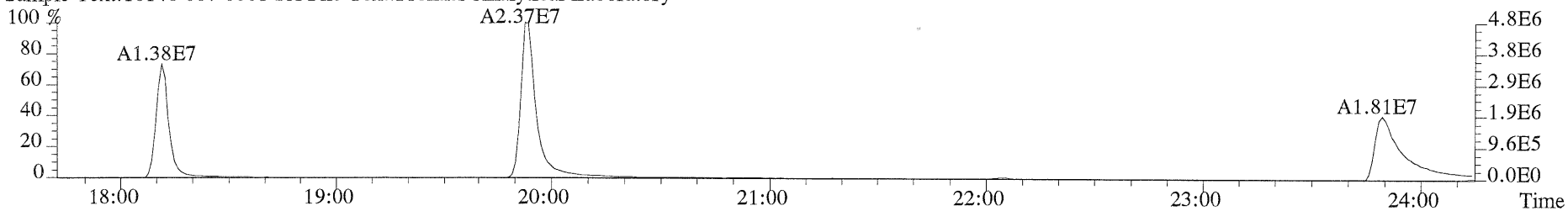
File:21SEP16Z #1-509 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



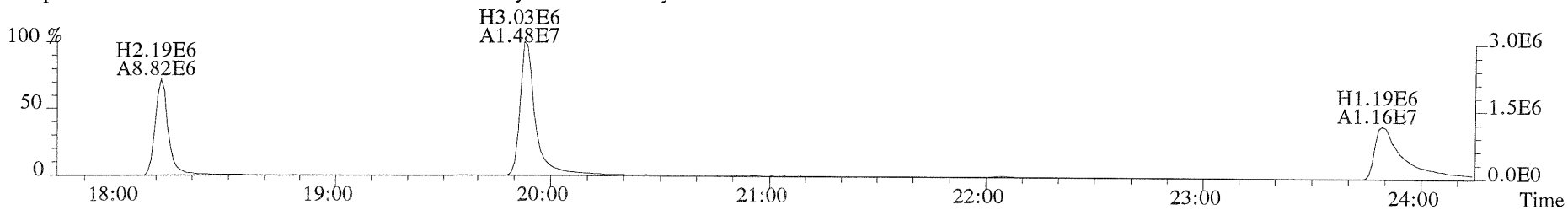
File:21SEP16Z #1-509 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



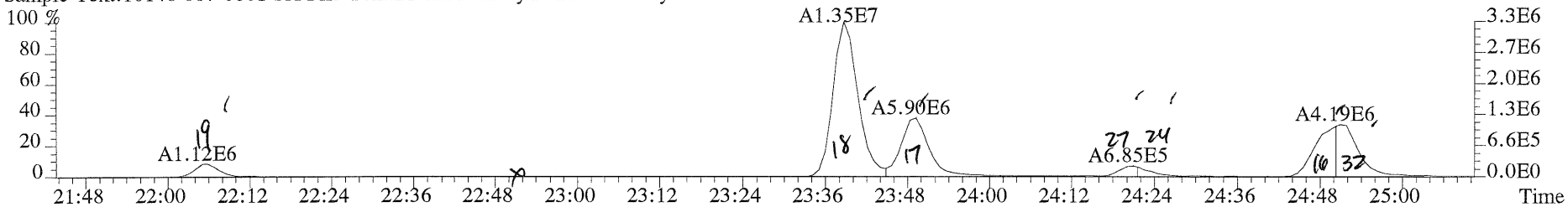
File:21SEP16Z #1-509 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



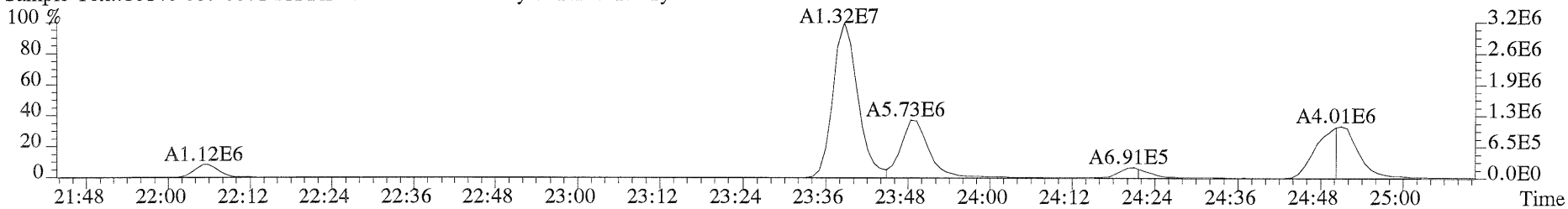
File:21SEP16Z #1-509 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



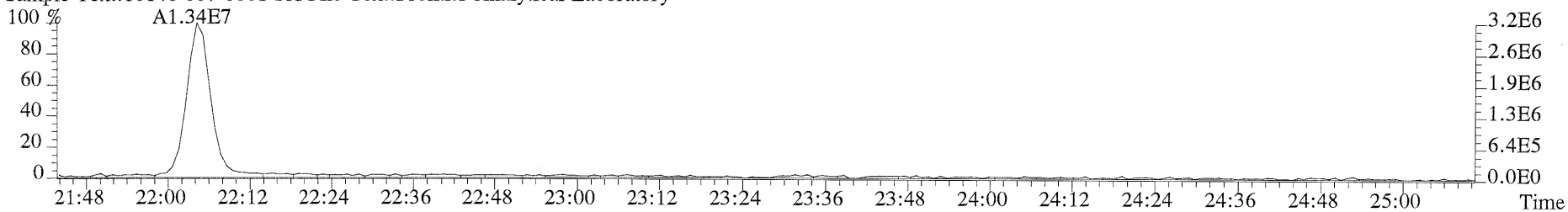
File:21SEP16Z #1-509 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



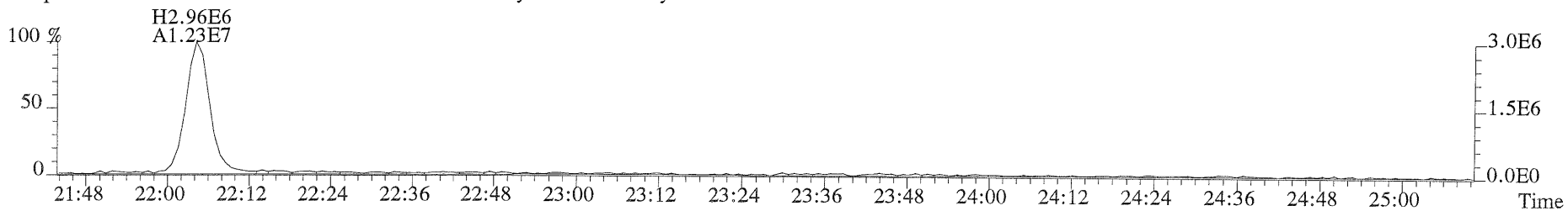
File:21SEP16Z #1-509 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



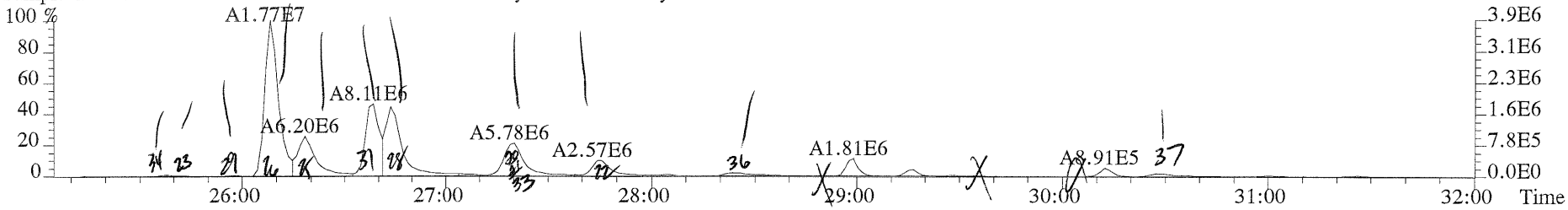
File:21SEP16Z #1-509 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



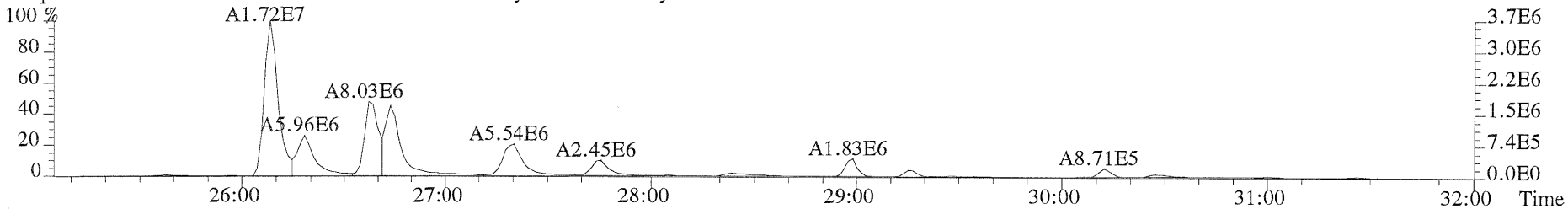
File:21SEP16Z #1-509 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



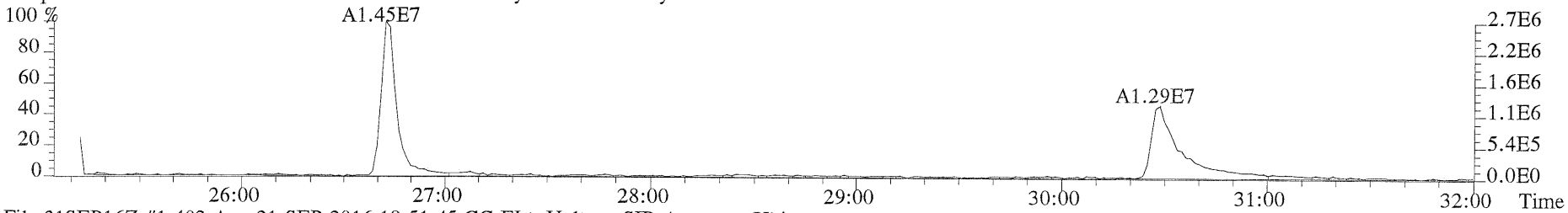
File:21SEP16Z #1-403 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



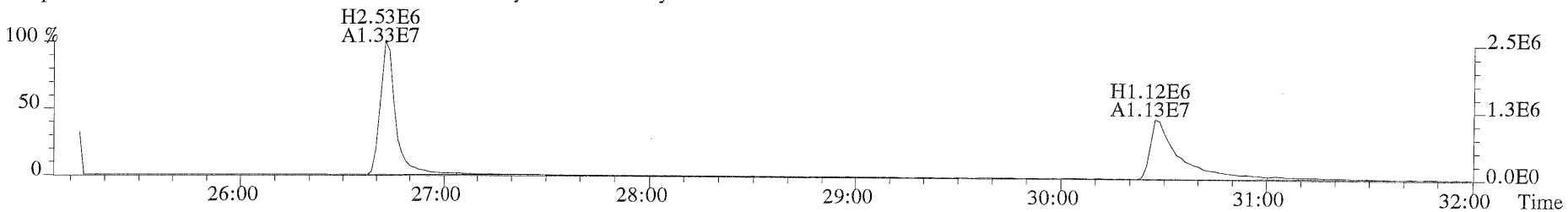
File:21SEP16Z #1-403 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



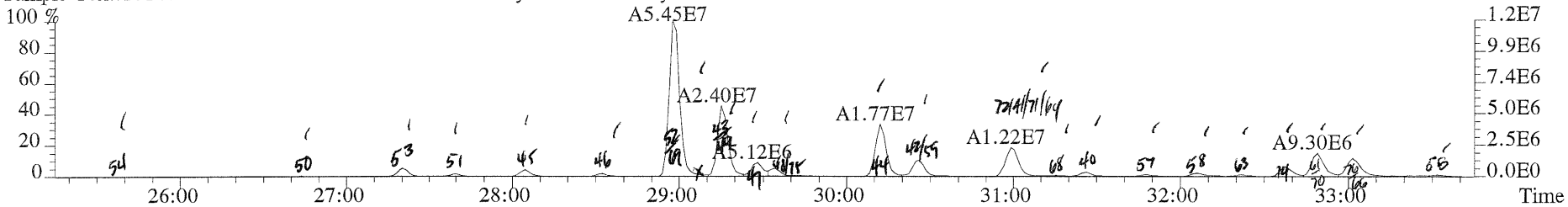
File:21SEP16Z #1-403 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



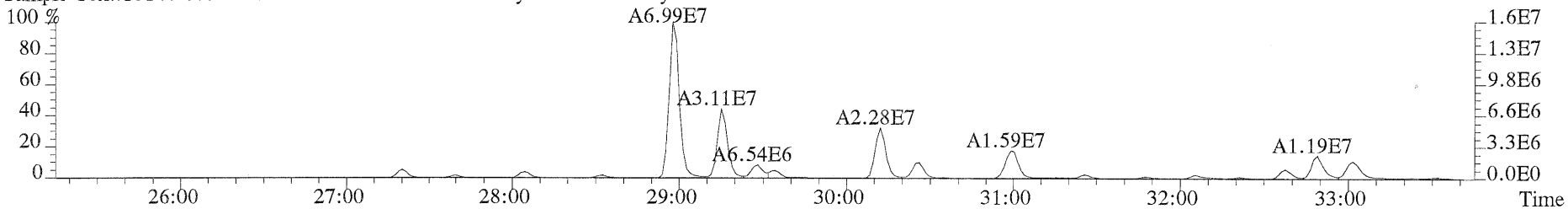
File:21SEP16Z #1-403 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



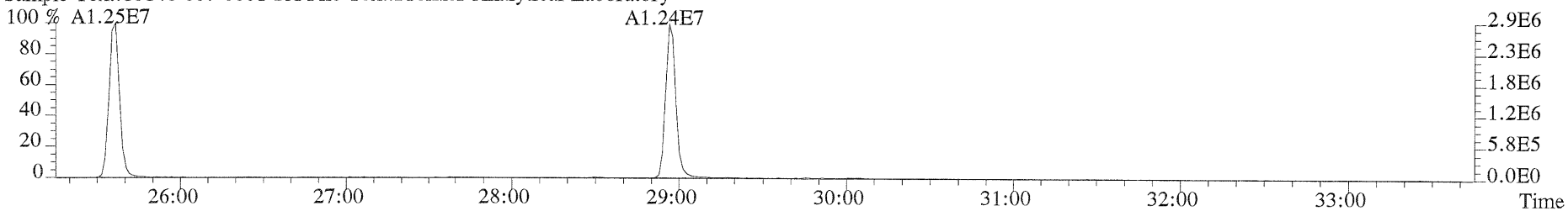
File:21SEP16Z #1-403 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



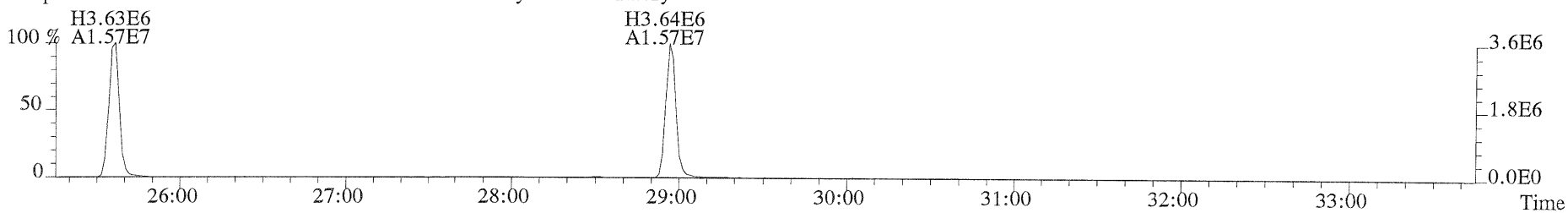
File:21SEP16Z #1-403 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



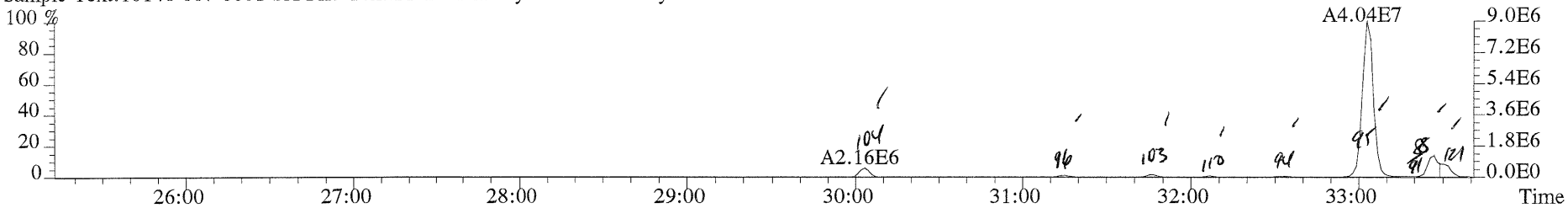
File:21SEP16Z #1-403 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



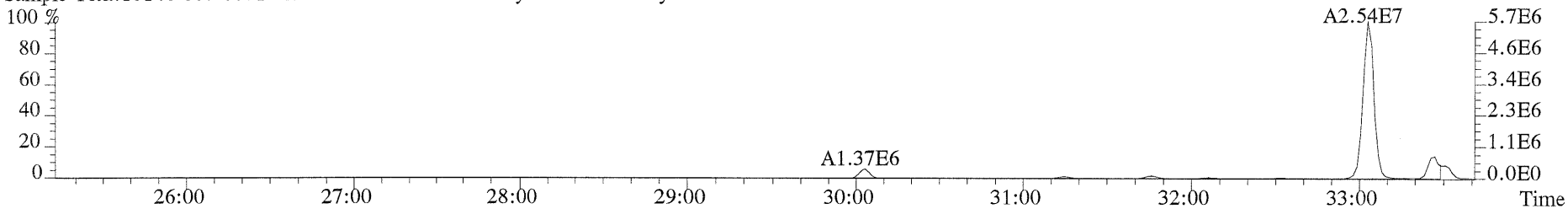
File:21SEP16Z #1-403 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



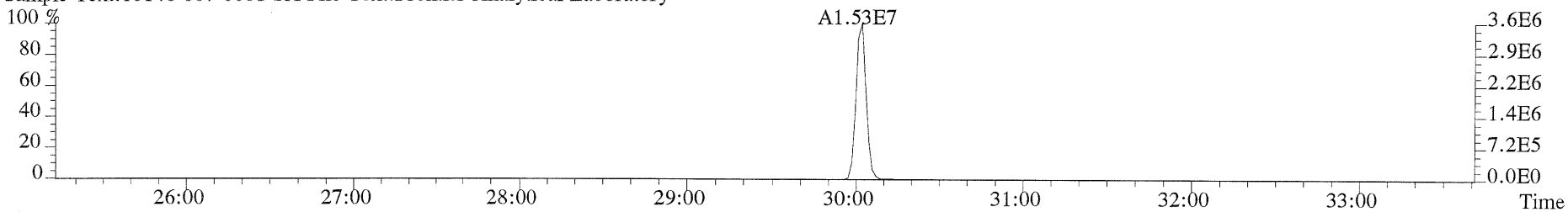
File:21SEP16Z #1-403 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



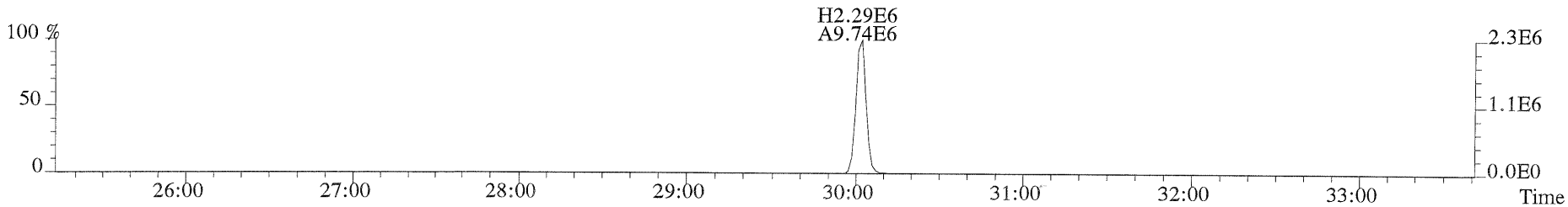
File:21SEP16Z #1-403 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



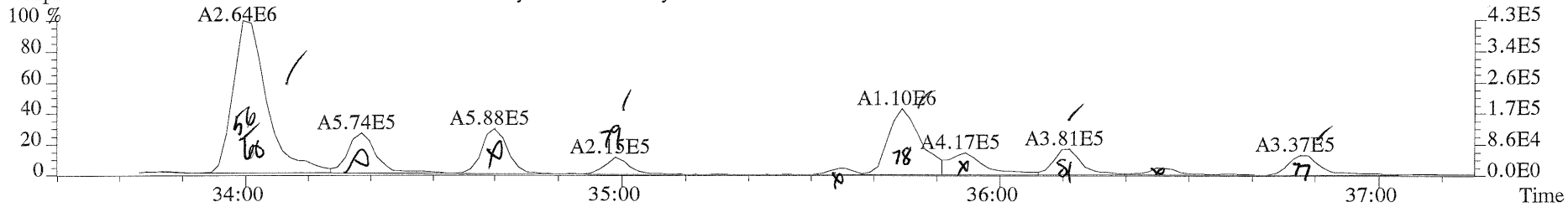
File:21SEP16Z #1-403 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



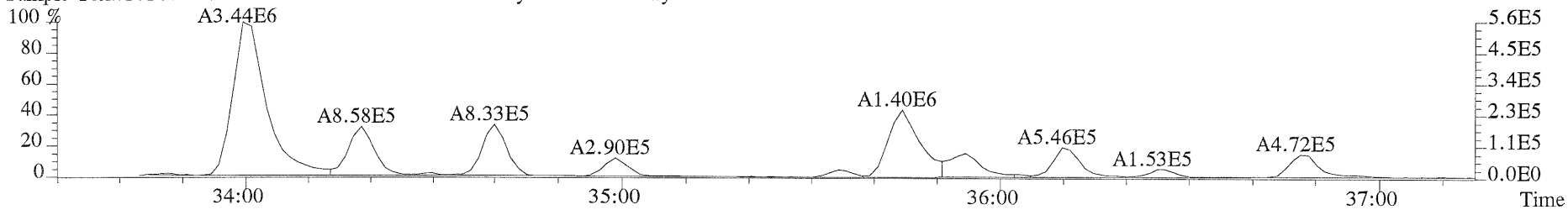
File:21SEP16Z #1-403 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



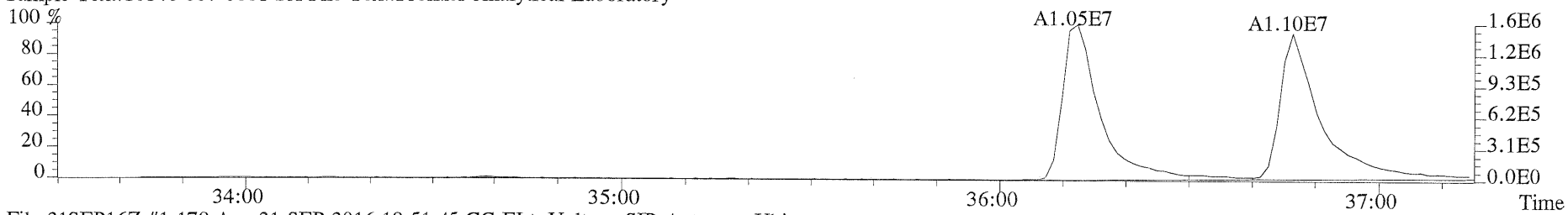
File:21SEP16Z #1-179 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



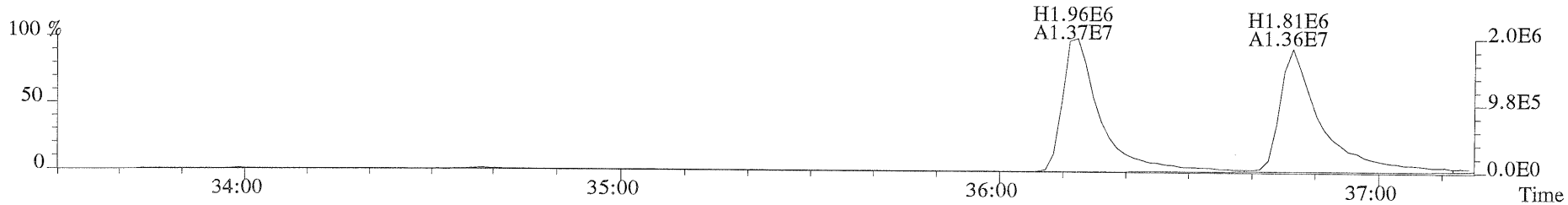
File:21SEP16Z #1-179 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



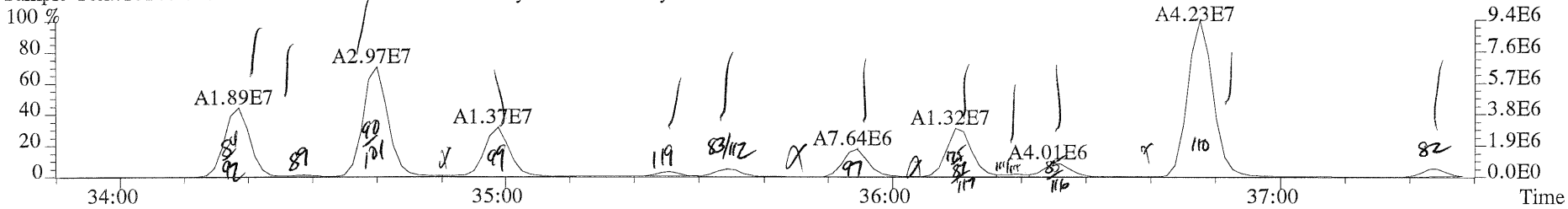
File:21SEP16Z #1-179 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



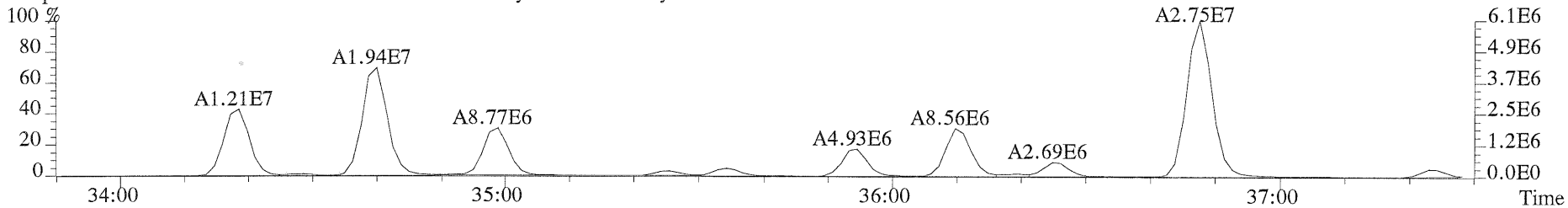
File:21SEP16Z #1-179 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



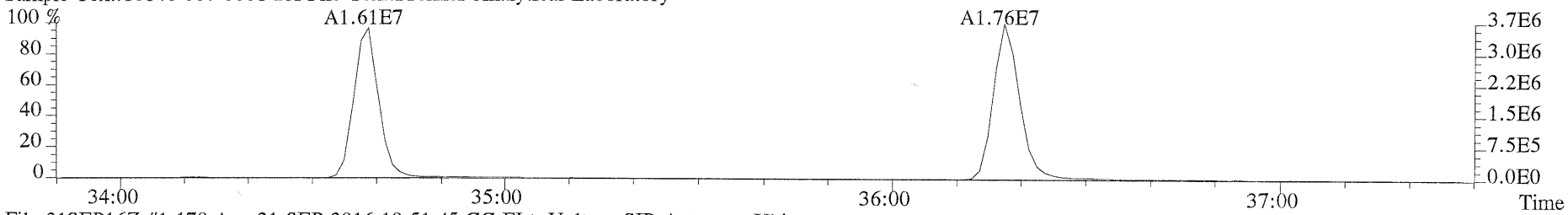
File:21SEP16Z #1-179 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



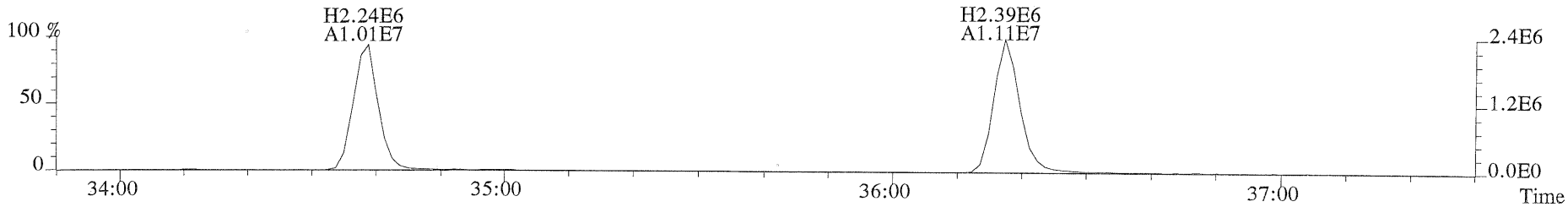
File:21SEP16Z #1-179 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



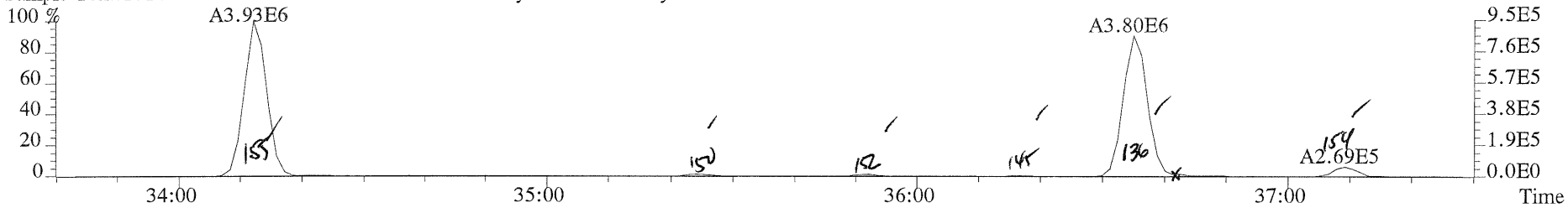
File:21SEP16Z #1-179 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



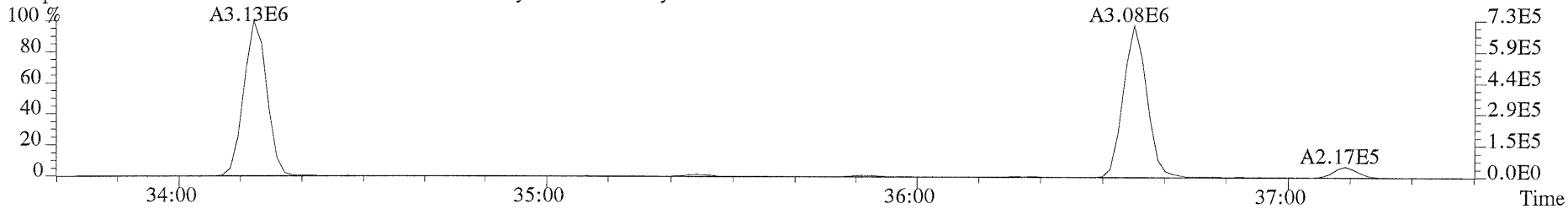
File:21SEP16Z #1-179 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



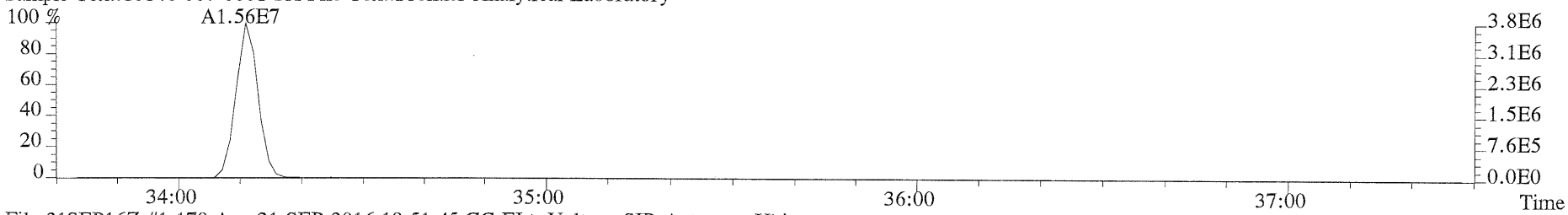
File:21SEP16Z #1-179 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



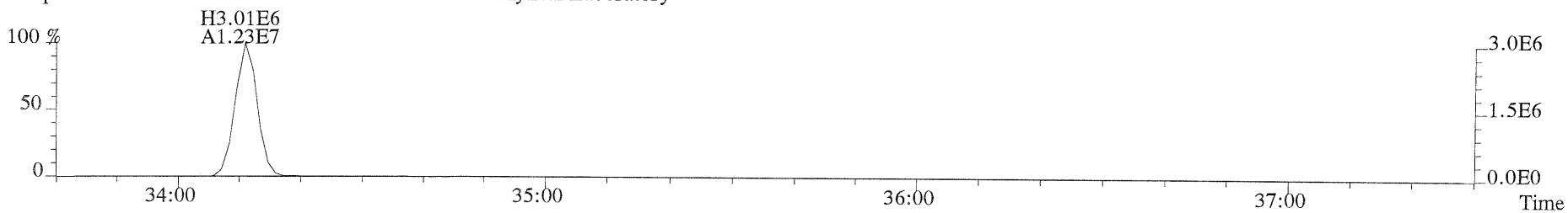
File:21SEP16Z #1-179 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



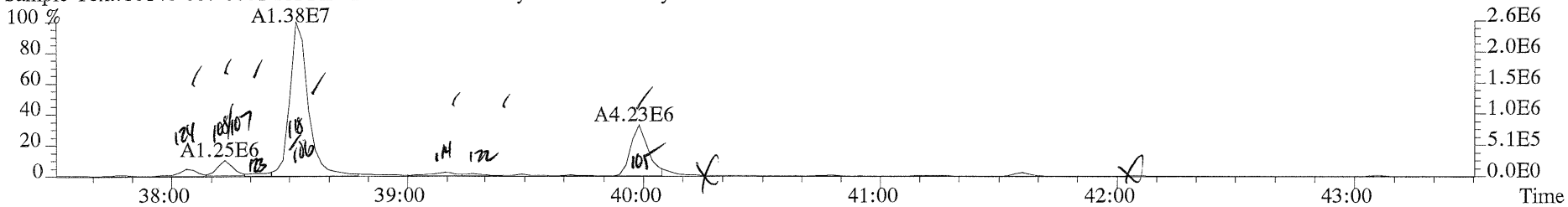
File:21SEP16Z #1-179 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



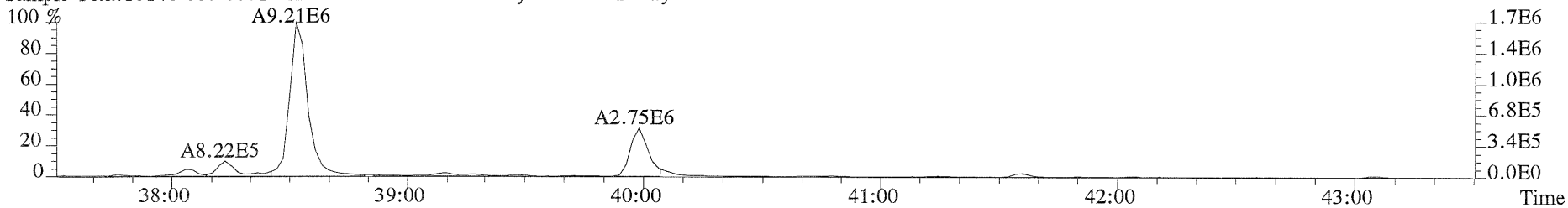
File:21SEP16Z #1-179 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



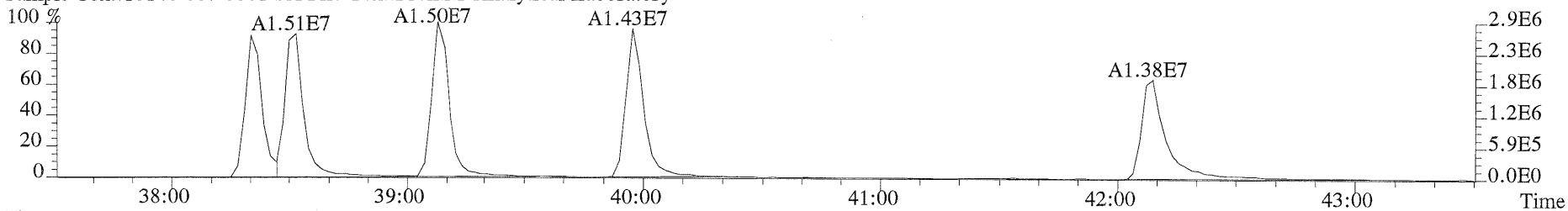
File:21SEP16Z #1-411 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



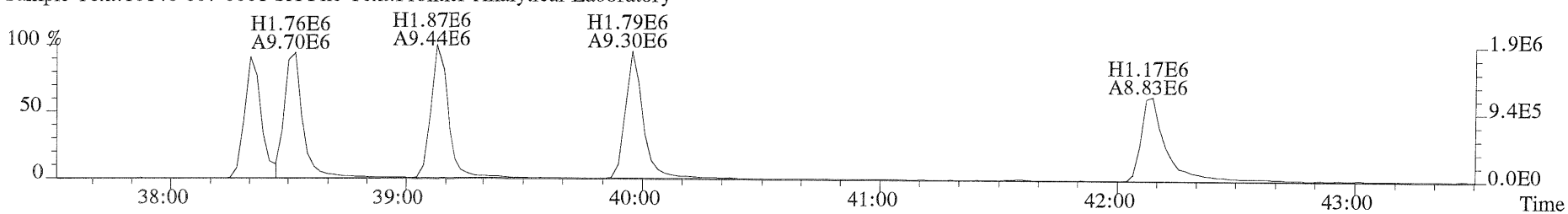
File:21SEP16Z #1-411 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



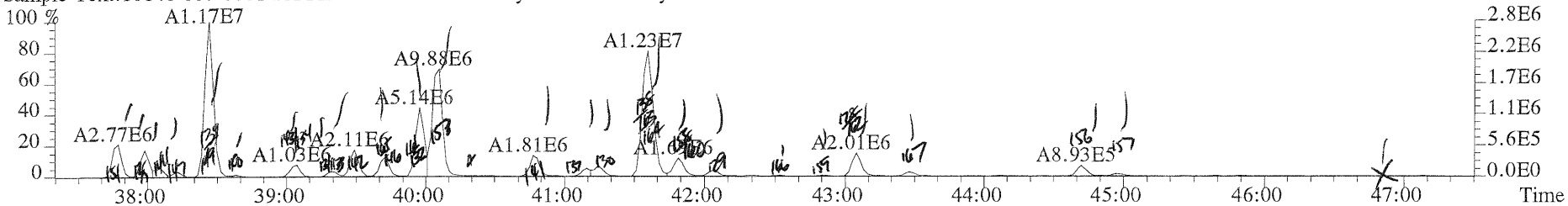
File:21SEP16Z #1-411 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



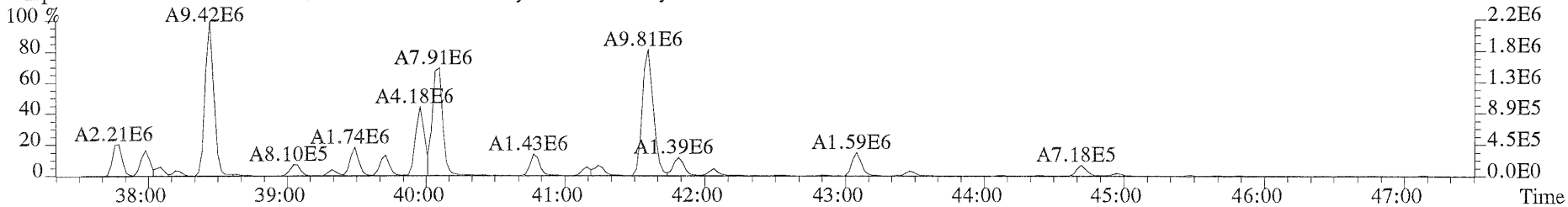
File:21SEP16Z #1-411 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



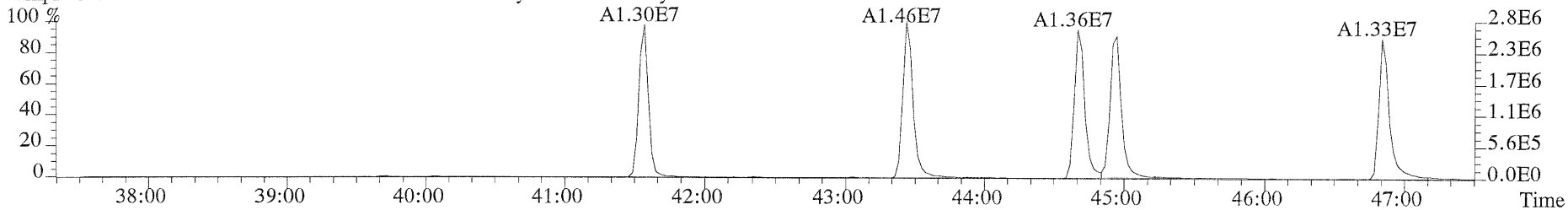
File:21SEP16Z #1-411 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



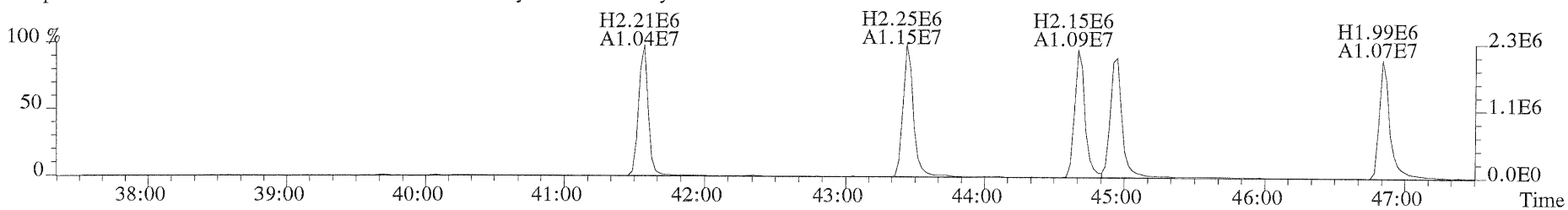
File:21SEP16Z #1-411 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



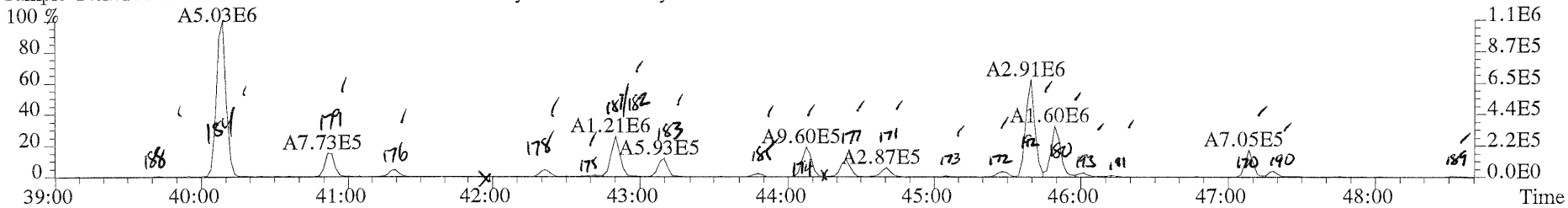
File:21SEP16Z #1-411 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



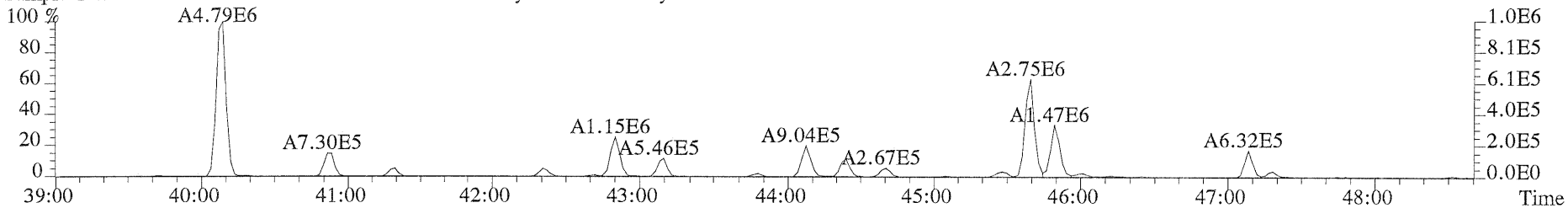
File:21SEP16Z #1-411 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



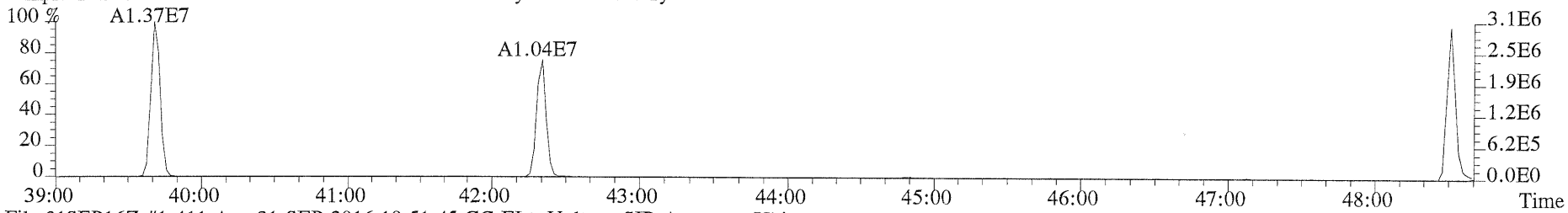
File:21SEP16Z #1-411 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



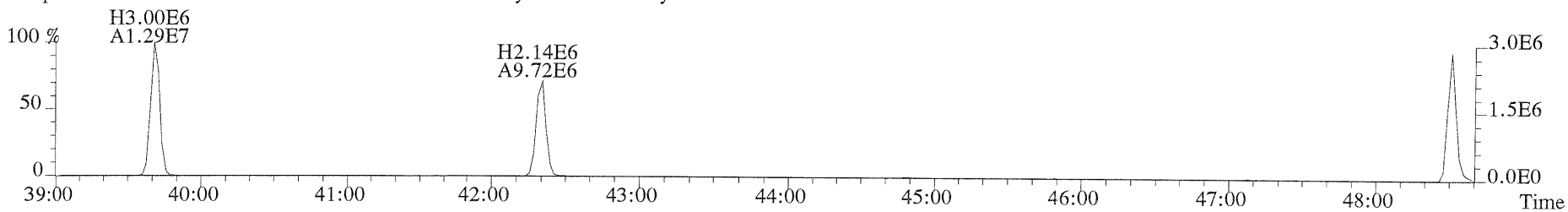
File:21SEP16Z #1-411 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



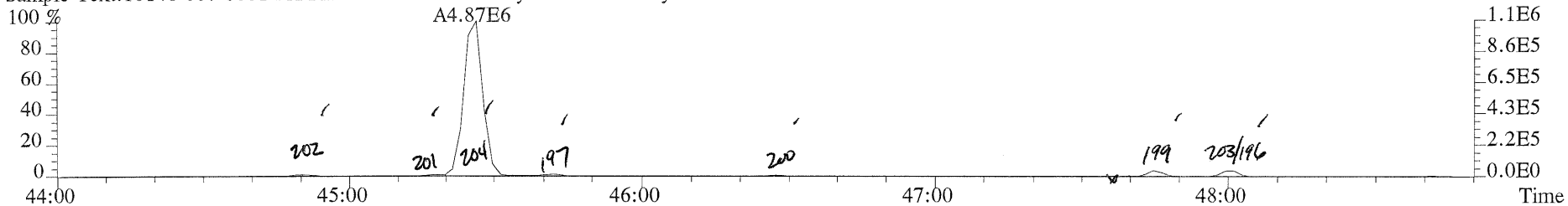
File:21SEP16Z #1-411 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



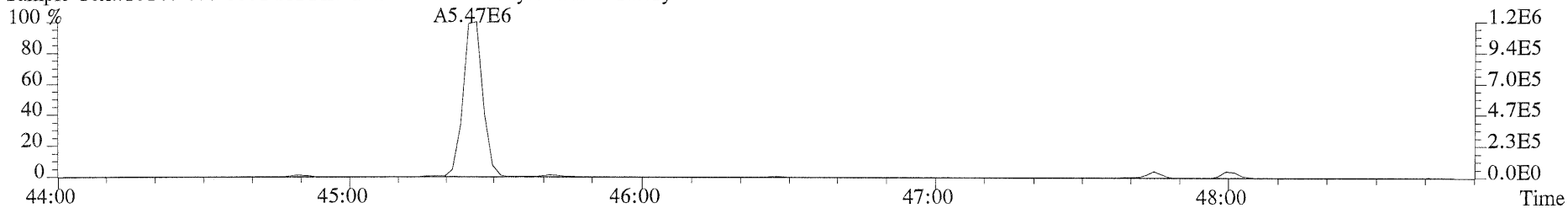
File:21SEP16Z #1-411 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



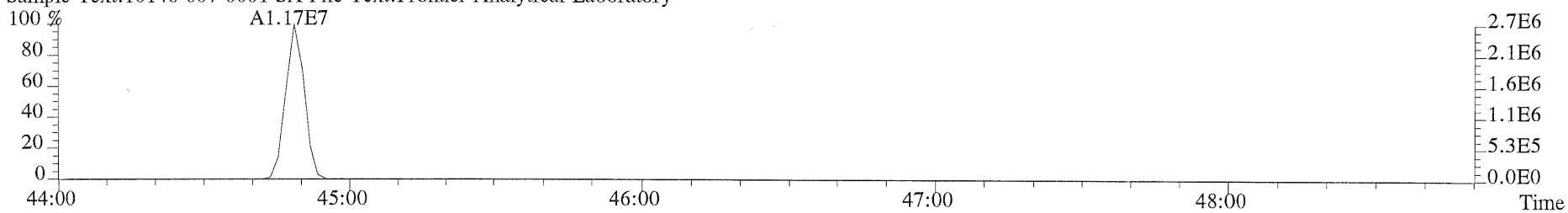
File:21SEP16Z #1-411 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



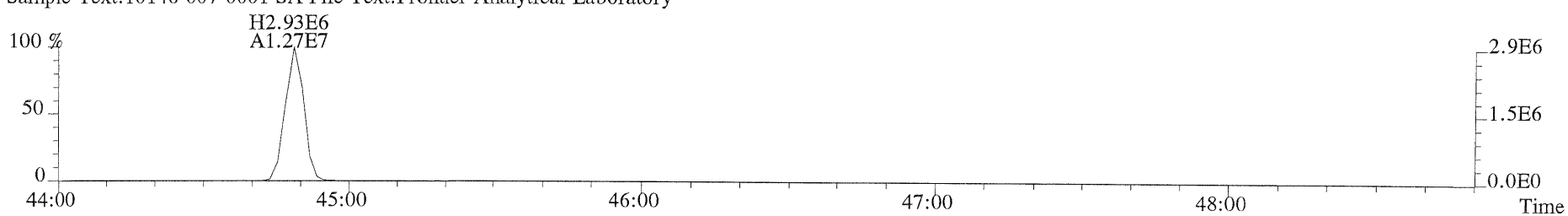
File:21SEP16Z #1-411 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



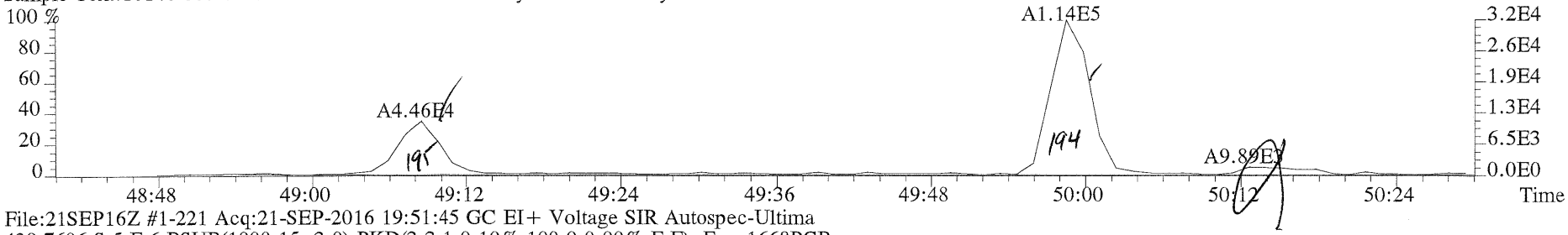
File:21SEP16Z #1-411 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



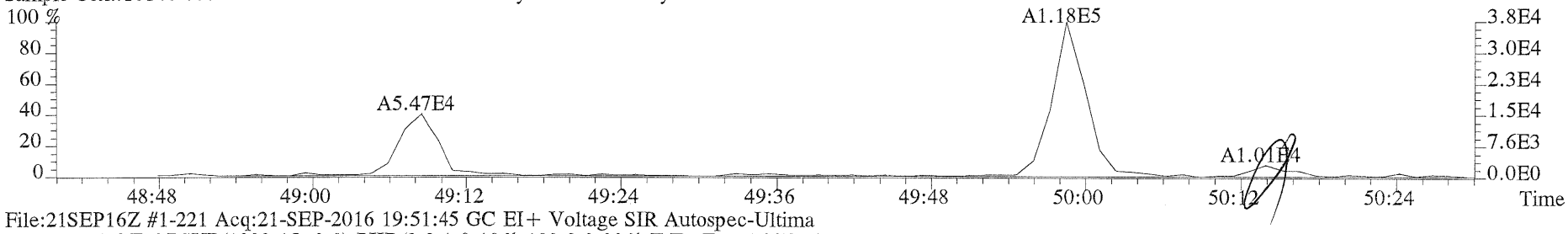
File:21SEP16Z #1-411 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



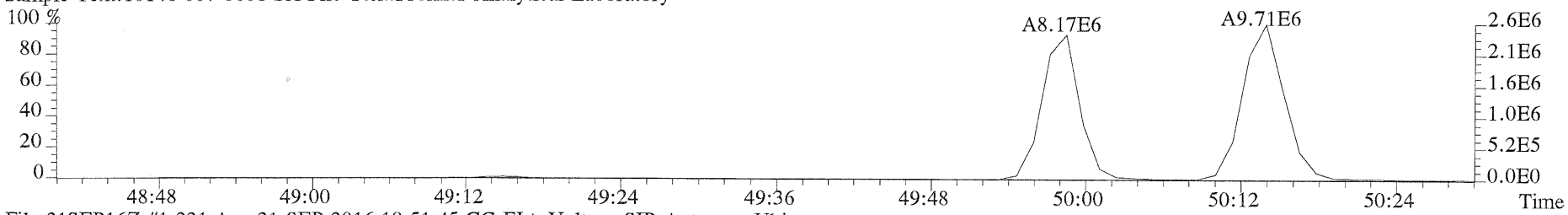
File:21SEP16Z #1-221 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



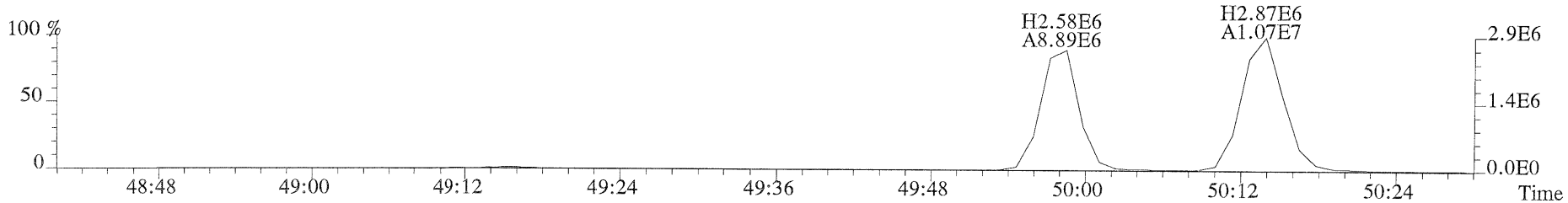
File:21SEP16Z #1-221 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



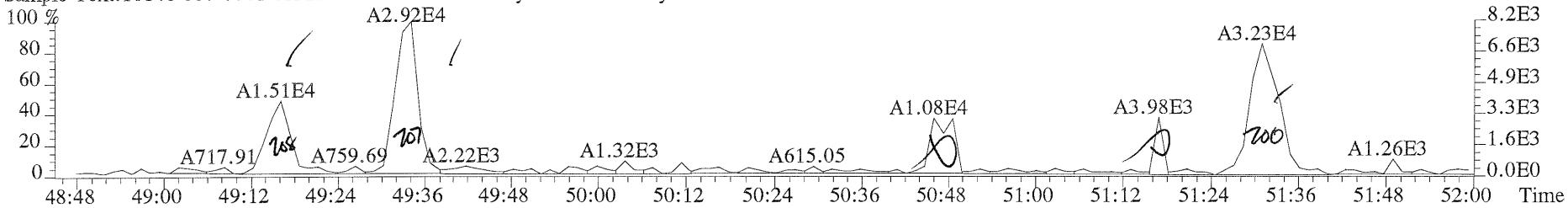
File:21SEP16Z #1-221 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-221 Acq:21-SEP-2016 19:51:45 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:10146-007-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-221 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-221 Acq:21-SEP-2016 19:51:45 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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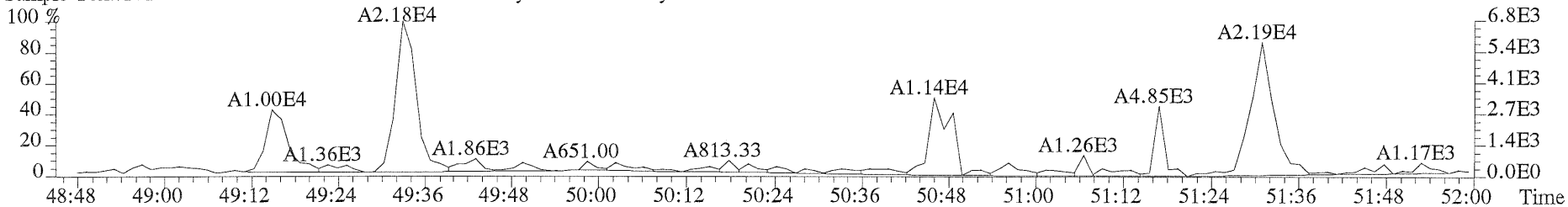

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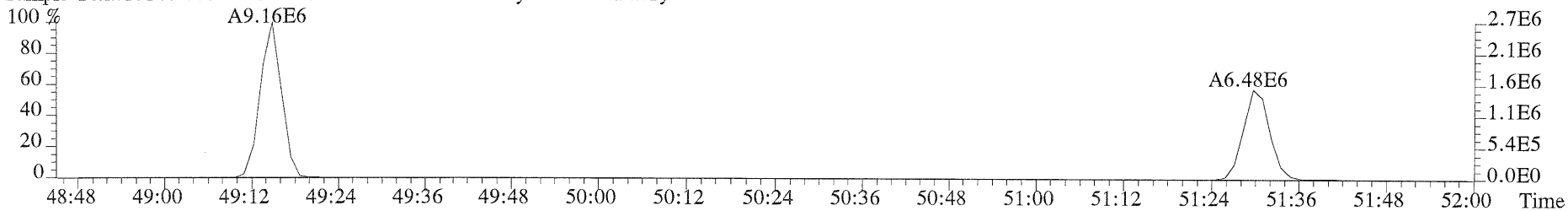
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



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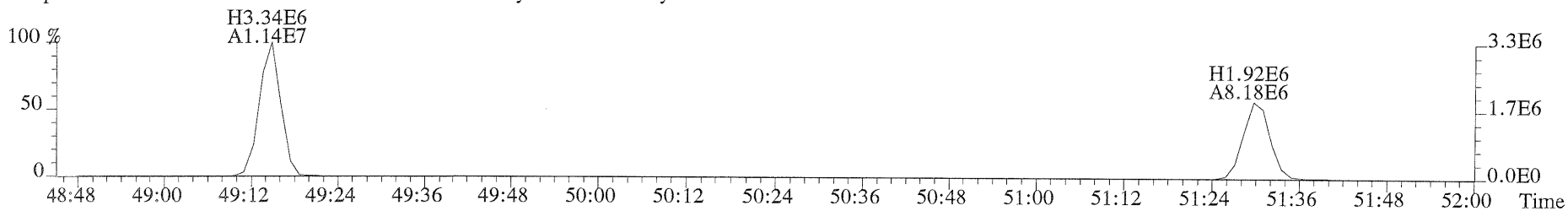
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



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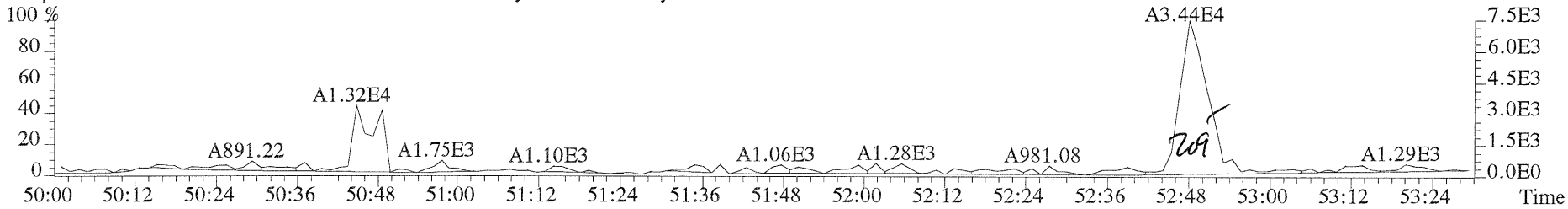
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



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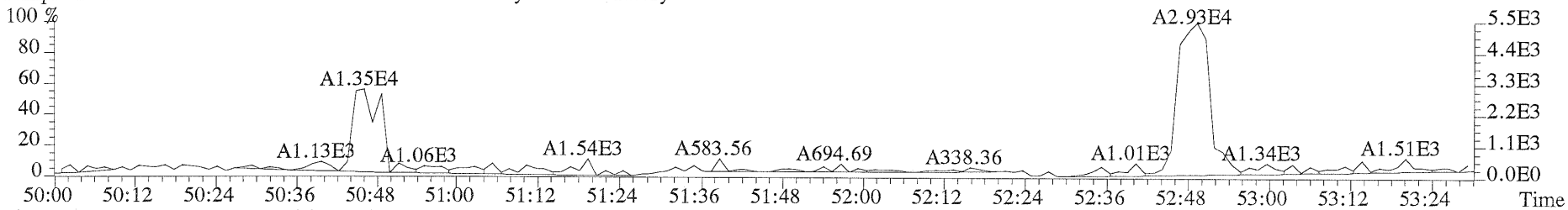
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



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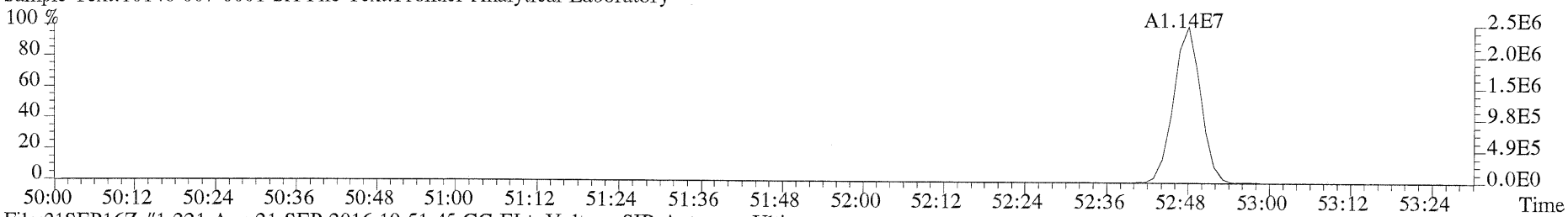
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



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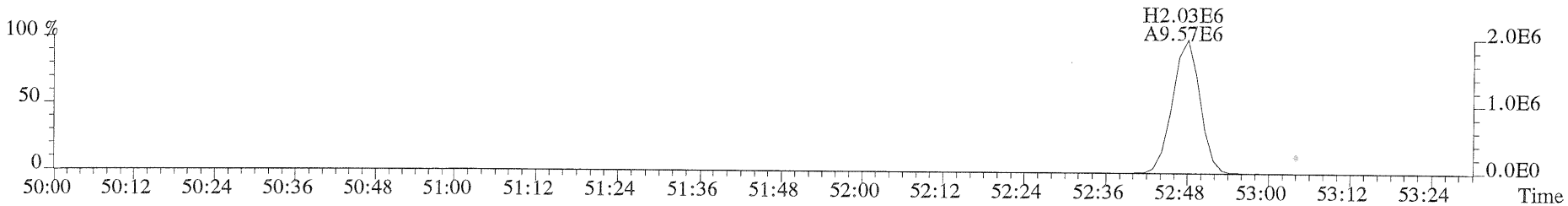
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-007-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10146-008-0001-SA Filename: 19SEP16Z Sam:12 Acquired: 20-SEP-16 00:51:57 ICal: DAILY209FAL4-9-19-16
Client ID: LDW-BA-IN-ENR+AC-CB-S010 ConCal: ST091916Z1 EndCal: ST091916Z2
Results: 10146 GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	9.15e+05	3.18 y	14:28	1.12	306		-	-	*	
13C-PCB-1	2.68e+07	3.32 y	14:27	0.94	8720					87.2
PCB-2	*	* n	NotFnd	0.91	*		705	651	8.06	
PCB-3	5.52e+04	2.79 y	16:58	1.28	18.5	J	-	-	*	
13C-PCB-3	2.33e+07	3.43 y	16:57	0.80	8850					88.5
PCB-4	2.18e+06	1.51 y	18:09	1.14	1010		-	-	*	
PCB-10	4.18e+05	1.73 y	18:12	1.32	142		-	-	*	
13C-PCB-4	1.89e+07	1.61 y	18:08	0.63	9200					92.0
PCB-9	4.17e+05	1.51 y	19:51	1.35	139		-	-	*	
PCB-7	4.99e+05	1.64 y	19:54	1.51	150		-	-	*	
PCB-6	6.04e+06	1.53 y	20:30	1.47	1850		-	-	*	
PCB-8	3.61e+06	1.47 y	20:52	1.28	1270		-	-	*	
PCB-5	1.65e+06	1.56 y	20:55	1.55	482		-	-	*	
PCB-14	2.97e+05	1.63 y	22:01	1.38	96.9		-	-	*	
PCB-11	*	* n	NotFnd	1.14	*		1170	850	14.0	
PCB-13	6.43e+04	1.60 y	23:31	1.15	25.2		-	-	*	
PCB-12	6.45e+05	1.33 y	23:36	1.29	225		-	-	*	
PCB-15	6.52e+05	1.46 y	23:46	1.33	193		-	-	*	
13C-PCB-15	2.54e+07	1.56 y	23:46	0.88	8850					88.5
PCB-19	1.75e+06	1.03 y	22:01	1.22	941		-	-	*	
PCB-30	*	* n	NotFnd	1.71	*		620	400	4.15	
PCB-18	1.85e+07	1.04 y	23:35	1.12	10800		-	-	*	
PCB-17	7.70e+06	1.05 y	23:46	1.29	3900		-	-	*	
PCB-27	8.77e+05	1.01 y	24:16	1.63	352		-	-	*	
PCB-24	7.24e+05	1.13 y	24:18	1.69	282		-	-	*	
PCB-16	4.02e+06	1.02 y	24:46	1.28	2060		-	-	*	
PCB-32	6.26e+06	1.06 y	24:47	1.55	2650		-	-	*	
13C-PCB-19	1.52e+07	1.08 y	22:01	0.47	9840					98.4
13C-PCB-9	3.28e+07	1.60 y	19:49	-	33.4					
PCB-34	1.76e+05	1.10 y	25:34	0.98	85.5		-	-	*	
PCB-23	4.15e+04	0.97 y	25:38	1.44	13.7	J	-	-	*	
PCB-29	4.42e+04	1.00 y	25:54	1.25	16.8	J	-	-	*	
PCB-26	1.88e+07	0.97 y	26:04	1.21	7380		-	-	*	
PCB-25	8.03e+06	1.00 y	26:14	1.53	2500		-	-	*	
PCB-31	1.01e+07	0.98 y	26:35	1.11	4300		-	-	*	
PCB-28	1.34e+07	1.03 y	26:41	1.60	3980		-	-	*	
PCB-20	6.52e+06	1.08 y	27:16	1.32	2360		-	-	*	Co-elute PCB 21/33
PCB-21	6.52e+06	1.08 y	27:16	1.32	2360		-	-	*	Co-elute PCB 20/33
PCB-33	6.52e+06	1.08 y	27:16	1.32	2360		-	-	*	Co-elute PCB 20/21
PCB-22	3.64e+06	1.06 y	27:42	1.34	1290		-	-	*	
PCB-36	1.63e+06	1.15 y	28:21	1.11	697		-	-	*	
PCB-39	*	* n	NotFnd	1.09	*		309	437	8.74	
PCB-38	*	* n	NotFnd	1.24	*		309	437	7.70	
PCB-35	*	* n	NotFnd	0.96	*		309	437	9.91	
PCB-37	6.96e+05	0.91 y	30:25	1.29	257		-	-	*	
13C-PCB-37	2.10e+07	1.04 y	30:25	1.43	7830					78.3

PCB-54	9.76e+04	0.88	y	25:34	1.17	40.9	-	-	*	
PCB-50	1.02e+05	0.72	y	26:40	0.86	58.3	-	-	*	
PCB-53	3.32e+06	0.80	y	27:16	0.83	1970	-	-	*	
PCB-51	8.50e+05	0.79	y	27:37	0.86	482	-	-	*	
PCB-45	2.85e+06	0.78	y	28:01	0.74	1890	-	-	*	
PCB-46	1.08e+06	0.77	y	28:28	0.69	767	-	-	*	
PCB-52	4.74e+07	0.79	y	28:55	1.02	22700	-	-	*	Co-elute PCB 69
PCB-69	4.74e+07	0.79	y	28:55	1.02	22700	-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.05	*	608	612	6.16	
PCB-43	2.13e+07	0.78	y	29:13	0.79	13200	-	-	*	Co-elute PCB 49
PCB-49	2.13e+07	0.78	y	29:13	0.79	13200	-	-	*	Co-elute PCB 43
PCB-47	4.54e+06	0.77	y	29:24	0.96	2310	-	-	*	
PCB-48	3.08e+06	0.76	y	29:30	1.05	1440	-	-	*	Co-elute PCB 75
PCB-75	3.08e+06	0.76	y	29:30	1.05	1440	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.04	*	608	612	6.23	
PCB-62	*	*	n	NotFnd	1.01	*	608	612	6.38	
PCB-44	1.71e+07	0.78	y	30:08	0.73	11500	-	-	*	
PCB-42	5.85e+06	0.81	y	30:22	0.99	2900	-	-	*	Co-elute PCB 59
PCB-59	5.85e+06	0.81	y	30:22	0.99	2900	-	-	*	Co-elute PCB 42
PCB-72	1.33e+07	0.79	y	30:56	1.06	6160	-	-	*	Co-elute PCB 41/71/64
PCB-41	1.33e+07	0.79	y	30:56	1.06	6160	-	-	*	Co-elute PCB 72/71/64
PCB-71	1.33e+07	0.79	y	30:56	1.06	6160	-	-	*	Co-elute PCB 72/41/64
PCB-64	1.33e+07	0.79	y	30:56	1.06	6160	-	-	*	Co-elute PCB 72/41/71
PCB-68	2.93e+05	0.79	y	31:12	1.12	128	-	-	*	
PCB-40	1.75e+06	0.82	y	31:23	0.64	1340	-	-	*	
PCB-57	5.70e+05	0.76	y	31:44	1.06	264	-	-	*	
PCB-67	1.12e+06	0.75	y	32:02	1.06	515	-	-	*	
PCB-58	2.45e+05	0.80	y	32:08	1.03	116	-	-	*	
PCB-63	6.64e+05	0.80	y	32:17	1.07	304	-	-	*	
PCB-74	3.70e+06	0.76	y	32:35	1.11	1630	-	-	*	
PCB-61	8.79e+06	0.79	y	32:46	1.08	3960	-	-	*	Co-elute PCB 70
PCB-70	8.79e+06	0.79	y	32:46	1.08	3960	-	-	*	Co-elute PCB 61
PCB-76	8.92e+06	0.84	y	32:59	1.14	3820	-	-	*	Co-elute PCB 66
PCB-66	8.92e+06	0.84	y	32:59	1.14	3820	-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.22	*	608	612	5.31	
PCB-55	5.71e+05	0.72	y	33:29	1.10	255	-	-	*	
13C-PCB-54	2.04e+07	0.80	y	25:33	1.20	9070				90.7
PCB-104	2.09e+06	1.54	y	29:59	1.25	1400	-	-	*	
PCB-96	2.26e+05	1.56	y	31:12	1.14	167	-	-	*	
PCB-103	2.56e+05	1.57	y	31:43	0.94	229	-	-	*	
PCB-100	9.77e+04	1.41	y	32:03	0.91	89.8	-	-	*	
PCB-94	9.07e+04	1.33	y	32:29	0.76	100	-	-	*	
PCB-98	*	*	n	NotFnd	0.97	*	436	408	7.42	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.97	*	436	408	7.42	Co-elute PCB 98
PCB-95	1.61e+07	1.57	y	33:00	0.80	16800	-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*	436	408	9.28	
PCB-88	1.61e+06	1.52	y	33:23	0.81	1680	-	-	*	Co-elute PCB 91
PCB-91	1.61e+06	1.52	y	33:23	0.81	1680	-	-	*	Co-elute PCB 88
PCB-121	3.32e+06	1.63	y	33:28	1.15	2420	-	-	*	
13C-PCB-104	1.19e+07	1.66	y	29:58	0.66	9690				96.9
13C-PCB-28	2.21e+07	1.03	y	26:38	1.63	7240				72.4
13C-PCB-52	1.88e+07	0.81	y	28:54	-	35.2				

PCB-56	3.35e+06	0.77	y	33:57	1.24	1250		-	-	*	Co-elute PCB 60
PCB-60	3.35e+06	0.77	y	33:57	1.24	1250		-	-	*	Co-elute PCB 56
PCB-79	2.46e+05	0.66	y	34:55	1.23	92.0		-	-	*	
PCB-78	2.50e+06	0.82	y	35:42	1.13	1020		-	-	*	
PCB-81	4.56e+05	0.74	y	36:07	1.23	171		-	-	*	
13C-PCB-81	2.17e+07	0.80	y	36:08	1.35	9570					95.7
PCB-77	4.04e+05	0.78	y	36:45	1.14	162		-	-	*	
13C-PCB-77	2.18e+07	0.80	y	36:44	1.37	9450					94.5
PCB-155	3.68e+06	1.26	y	34:09	1.18	2430		-	-	*	
PCB-150	2.49e+04	1.21	y	35:20	1.01	19.1	J	-	-	*	
PCB-152	2.10e+04	1.10	y	35:48	1.00	16.5	J	-	-	*	
PCB-145	*	*	n	NotFnd	1.00	*		456	348	6.72	
PCB-136	1.58e+06	1.25	y	36:32	0.94	1320		-	-	*	
PCB-148	*	*	n	NotFnd	0.78	*		456	348	8.60	
PCB-154	1.19e+05	1.12	y	37:06	0.85	110		-	-	*	
13C-PCB-155	1.28e+07	1.25	y	34:08	0.84	9120					91.2
13C-PCB-111	1.78e+07	1.61	y	36:15	1.16	9090					90.9
13C-PCB-101	1.68e+07	1.60	y	34:35	-	37.0					
PCB-84	1.01e+07	1.58	y	34:15	0.68	7470		-	-	*	Co-elute PCB 92
PCB-92	1.01e+07	1.58	y	34:15	0.68	7470		-	-	*	Co-elute PCB 84
PCB-89	3.02e+05	1.45	y	34:25	0.67	226		-	-	*	
PCB-90	1.65e+07	1.55	y	34:36	0.76	10900		-	-	*	Co-elute PCB 101
PCB-101	1.65e+07	1.55	y	34:36	0.76	10900		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.85	*		1070	656	13.7	
PCB-99	7.81e+06	1.56	y	34:55	0.85	4630		-	-	*	
PCB-119	7.58e+05	1.47	y	35:22	0.96	397		-	-	*	
PCB-83	1.13e+06	1.49	y	35:32	0.78	724		-	-	*	Co-elute PCB 112
PCB-112	1.13e+06	1.49	y	35:32	0.78	724		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.92	*		1070	656	12.6	
PCB-97	4.27e+06	1.54	y	35:51	0.82	2630		-	-	*	
PCB-86	*	*	n	NotFnd	0.66	*		1070	656	17.7	
PCB-125	7.26e+06	1.55	y	36:07	0.85	4280		-	-	*	Co-elute PCB 87/117
PCB-87	7.26e+06	1.55	y	36:07	0.85	4280		-	-	*	Co-elute PCB 125/117
PCB-117	7.26e+06	1.55	y	36:07	0.85	4280		-	-	*	Co-elute PCB 125/87
PCB-111	1.95e+05	1.54	y	36:16	1.13	86.3		-	-	*	Co-elute PCB 115
PCB-115	1.95e+05	1.54	y	36:16	1.13	86.3		-	-	*	Co-elute PCB 111
PCB-85	2.39e+06	1.54	y	36:22	0.79	1520		-	-	*	Co-elute PCB 116
PCB-116	2.39e+06	1.54	y	36:22	0.79	1520		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.93	*		1070	656	12.5	
PCB-110	2.37e+07	1.58	y	36:45	1.07	11100		-	-	*	
PCB-82	1.23e+06	1.62	y	37:20	0.55	1120		-	-	*	
PCB-124	4.13e+05	1.41	y	38:02	1.03	202		-	-	*	
PCB-108	8.93e+05	1.45	y	38:10	1.17	384		-	-	*	Co-elute PCB 107
PCB-107	8.93e+05	1.45	y	38:10	1.17	384		-	-	*	Co-elute PCB 108
PCB-123	2.67e+05	1.76	y	38:22	1.34	110		-	-	*	
13C-PCB-123	1.82e+07	1.60	y	38:17	1.34	8360					83.6
PCB-118	9.91e+06	1.52	y	38:30	1.08	4180		-	-	*	Co-elute PCB 106
PCB-106	9.91e+06	1.52	y	38:30	1.08	4180		-	-	*	Co-elute PCB 118
13C-PCB-118	2.19e+07	1.61	y	38:28	1.45	9250					92.5
PCB-114	1.96e+05	1.64	y	39:06	1.10	88.7		-	-	*	
13C-PCB-114	2.01e+07	1.56	y	39:04	1.36	9020					90.2
PCB-122	1.63e+05	1.37	y	39:14	1.25	65.2		-	-	*	
PCB-105	2.67e+06	1.54	y	39:55	1.16	1180		-	-	*	
13C-PCB-105	1.95e+07	1.58	y	39:54	1.38	8680					86.8

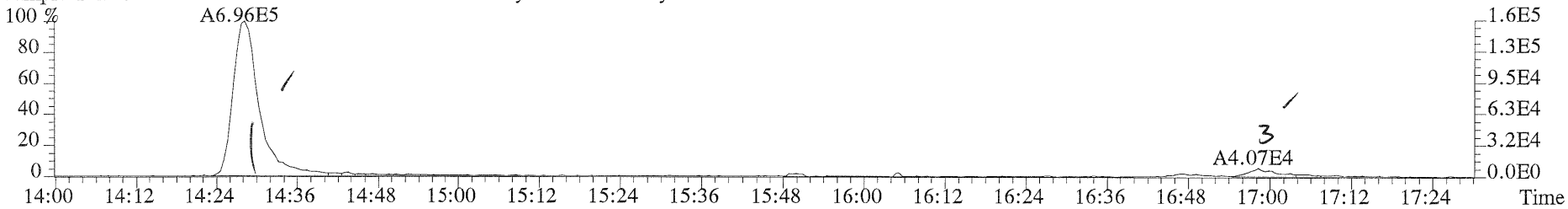
PCB-127	*	*	n	NotFnd	1.07	*			566	608	7.39	
PCB-126	*	*	n	NotFnd	1.17	*			566	608	9.78	
13C-PCB-126	1.88e+07	1.58	y	42:05	1.27	9100						91.0
PCB-151	1.75e+06	1.33	y	37:44	0.89	1100			-	-	*	
PCB-135	1.34e+06	1.39	y	37:55	0.81	929			-	-	*	
PCB-144	3.93e+05	1.21	y	38:02	1.04	212			-	-	*	
PCB-147	2.37e+05	1.21	y	38:10	0.96	138			-	-	*	
PCB-139	7.33e+06	1.28	y	38:23	0.98	4180			-	-	*	Co-elute PCB 149
PCB-149	7.33e+06	1.28	y	38:23	0.98	4180			-	-	*	Co-elute PCB 139
PCB-140	1.27e+05	1.23	y	38:33	0.96	73.8			-	-	*	
PCB-143	6.10e+05	1.22	y	39:01	0.89	384			-	-	*	Co-elute PCB 134
PCB-134	6.10e+05	1.22	y	39:01	0.89	384			-	-	*	Co-elute PCB 143
PCB-131	3.07e+05	1.16	y	39:16	0.91	189			-	-	*	Co-elute PCB 133
PCB-133	3.07e+05	1.16	y	39:16	0.91	189			-	-	*	Co-elute PCB 131
PCB-142	2.82e+06	1.26	y	39:26	0.79	2000			-	-	*	
PCB-165	1.09e+06	1.23	y	39:39	1.07	569			-	-	*	Co-elute PCB 146
PCB-146	1.09e+06	1.23	y	39:39	1.07	569			-	-	*	Co-elute PCB 165
PCB-161	2.90e+06	1.24	y	39:54	1.01	1610			-	-	*	Co-elute PCB 132
PCB-132	2.90e+06	1.24	y	39:54	1.01	1610			-	-	*	Co-elute PCB 161
PCB-153	6.52e+06	1.29	y	40:02	1.05	3500			-	-	*	
PCB-168	*	*	n	NotFnd	1.18	*			960	940	12.2	
PCB-141	1.09e+06	1.27	y	40:43	0.89	692			-	-	*	
PCB-137	3.83e+05	1.28	y	41:06	0.85	252			-	-	*	
PCB-130	5.37e+05	1.23	y	41:11	0.79	380			-	-	*	
PCB-138	7.59e+06	1.28	y	41:33	1.19	3580			-	-	*	Co-elute PCB 163/164
PCB-163	7.59e+06	1.28	y	41:33	1.19	3580			-	-	*	Co-elute PCB 138/164
PCB-164	7.59e+06	1.28	y	41:33	1.19	3580			-	-	*	Co-elute PCB 138/163
PCB-158	1.03e+06	1.26	y	41:46	1.18	490			-	-	*	Co-elute PCB 160
PCB-160	1.03e+06	1.26	y	41:46	1.18	490			-	-	*	Co-elute PCB 158
PCB-129	3.29e+05	1.29	y	42:01	0.73	252			-	-	*	
PCB-166	3.35e+04	1.06	y	42:27	1.11	17.0		J	-	-	*	
PCB-159	4.14e+04	1.38	y	42:47	1.20	19.3		J	-	-	*	
PCB-128	1.15e+06	1.31	y	43:01	1.00	649			-	-	*	Co-elute PCB 162
PCB-162	1.15e+06	1.31	y	43:01	1.00	649			-	-	*	Co-elute PCB 128
PCB-167	2.52e+05	1.35	y	43:24	1.06	129			-	-	*	
13C-PCB-167	1.84e+07	1.28	y	43:23	1.15	9850						98.5
PCB-156	5.04e+05	1.32	y	44:39	1.12	262			-	-	*	
13C-PCB-156	1.72e+07	1.27	y	44:37	1.10	9550						95.5
PCB-157	1.36e+05	1.29	y	44:53	1.13	64.4			-	-	*	
13C-PCB-157	1.87e+07	1.29	y	44:53	1.13	10100						101
PCB-169	*	*	n	NotFnd	1.07	*			960	940	13.5	
13C-PCB-169	1.72e+07	1.28	y	46:49	1.05	10000						100

FAL ID: 10146-008-0001-SA Filename: 19SEP16Z Sam:12 Acquired: 20-SEP-16 00:51:57 ICal: DAILY209FAL4-9-19-16
Client ID: LDW-BA-IN-ENR+AC-CB-S010 ConCal: ST091916Z1 EndCal: ST091916Z2
Results: 10146 GC Column: DB1 Amount: 1.000

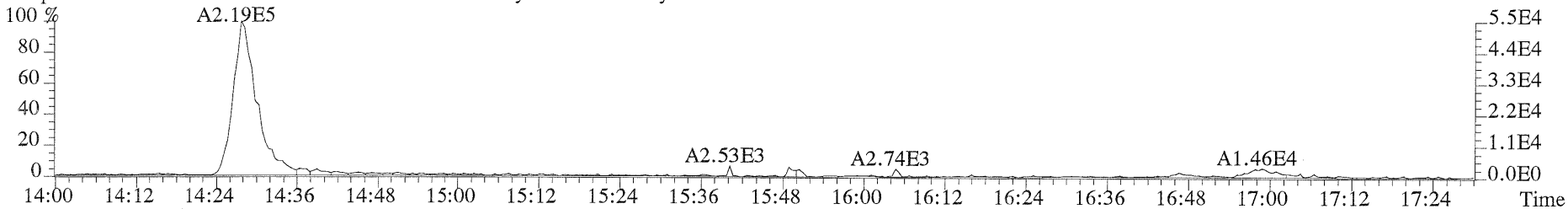
PCB-188	*	*	n	NotFnd	1.25	*	692	508	7.54	
13C-PCB-188	1.44e+07	1.06	y	39:37	0.94	9400				94.0
PCB-184	5.89e+06	1.03	y	40:05	1.39	3110	-	-	*	
PCB-179	4.27e+05	1.01	y	40:50	1.31	241	-	-	*	
PCB-176	1.37e+05	0.92	y	41:16	1.28	78.8	-	-	*	
PCB-186	*	*	n	NotFnd	1.28	*	692	508	7.60	
PCB-178	1.31e+05	1.04	y	42:19	0.89	109	-	-	*	
PCB-175	2.55e+04	1.13	y	42:38	0.93	20.1	-	-	*	
PCB-187	7.04e+05	1.07	y	42:47	1.02	511	-	-	*	Co-elute PCB 182
PCB-182	7.04e+05	1.07	y	42:47	1.02	511	-	-	*	Co-elute PCB 187
PCB-183	3.36e+05	1.14	y	43:06	1.02	243	-	-	*	
PCB-185	5.57e+04	1.03	y	43:44	0.91	44.9	-	-	*	
PCB-174	5.34e+05	1.09	y	44:04	0.94	420	-	-	*	
PCB-181	*	*	n	NotFnd	0.87	*	692	508	11.1	
PCB-177	2.88e+05	1.08	y	44:20	0.80	265	-	-	*	
PCB-171	1.42e+05	1.18	y	44:37	0.89	118	-	-	*	
PCB-173	*	*	n	NotFnd	0.79	*	692	508	12.3	
PCB-172	1.48e+05	1.17	y	45:25	0.80	137	-	-	*	
PCB-192	3.39e+06	1.06	y	45:36	1.09	2300	-	-	*	
PCB-180	8.97e+05	1.04	y	45:48	1.06	621	-	-	*	
PCB-193	8.07e+04	0.98	y	45:58	1.16	51.1	-	-	*	
PCB-191	3.12e+04	1.14	y	46:09	1.11	20.8	-	-	*	
PCB-170	3.27e+05	0.95	y	47:07	0.77	314	-	-	*	
PCB-190	9.60e+04	0.91	y	47:15	1.07	66.4	-	-	*	
PCB-189	*	*	n	NotFnd	1.23	*	692	508	8.22	
13C-PCB-189	1.28e+07	1.05	y	48:29	0.70	11200				112
PCB-202	3.67e+04	1.00	y	44:47	1.05	38.7	-	-	*	
PCB-201	*	*	n	NotFnd	1.05	*	328	416	8.35	
PCB-204	4.44e+06	0.92	y	45:23	1.05	4670	-	-	*	
PCB-197	3.88e+04	0.98	y	45:39	1.09	39.4	-	-	*	
PCB-200	*	*	n	NotFnd	1.01	*	328	416	8.71	
PCB-198	*	*	n	NotFnd	0.70	*	328	416	12.5	
PCB-199	7.19e+04	0.81	y	47:43	0.70	114	-	-	*	
PCB-203	7.43e+04	0.89	y	47:58	0.78	106	-	-	*	Co-elute PCB 196
PCB-196	7.43e+04	0.89	y	47:58	0.78	106	-	-	*	Co-elute PCB 203
13C-PCB-202	9.07e+06	0.90	y	44:45	0.57	9810				98.1
13C-PCB-178	1.01e+07	1.06	y	42:17	0.60	10300				103
13C-PCB-138	1.63e+07	1.30	y	41:31	-	37.4				
PCB-195	3.18e+04	0.77	y	49:06	0.74	27.5	-	-	*	
PCB-194	8.03e+04	0.86	y	49:57	0.82	62.3	-	-	*	
PCB-205	*	*	n	NotFnd	1.07	*	644	628	6.56	
13C-PCB-205	1.57e+07	0.90	y	50:11	1.27	9830				98.3
PCB-208	*	*	n	NotFnd	1.03	*	492	660	6.72	
13C-PCB-208	1.37e+07	0.80	y	49:12	1.14	9560				95.6
PCB-207	3.14e+04	1.51	y	49:31	1.15	22.9	-	-	*	
PCB-206	2.34e+04	1.27	y	51:28	1.04	21.9	-	-	*	
13C-PCB-206	1.02e+07	0.79	y	51:27	0.75	10800				108
PCB-209	4.27e+04	1.29	y	52:45	1.16	30.3	-	-	*	
13C-PCB-209	1.22e+07	1.21	y	52:44	0.93	10500				105
13C-PCB-194	1.26e+07	0.93	y	49:56	-	33.8				

Analyst: _____ Date: 9/21/16

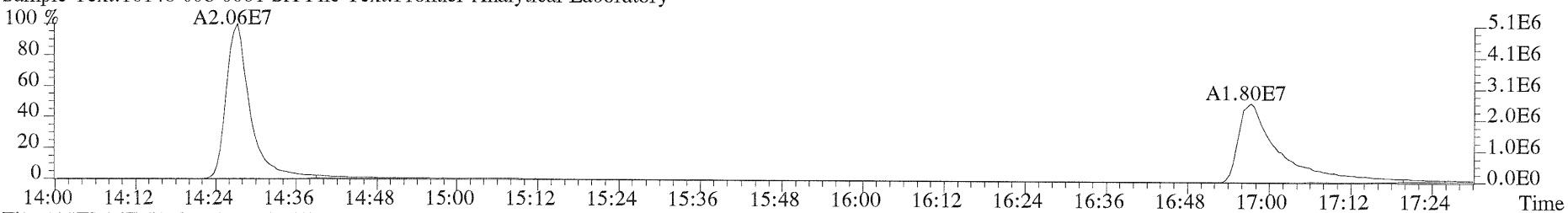
File:19SEP16Z #1-548 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:12 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



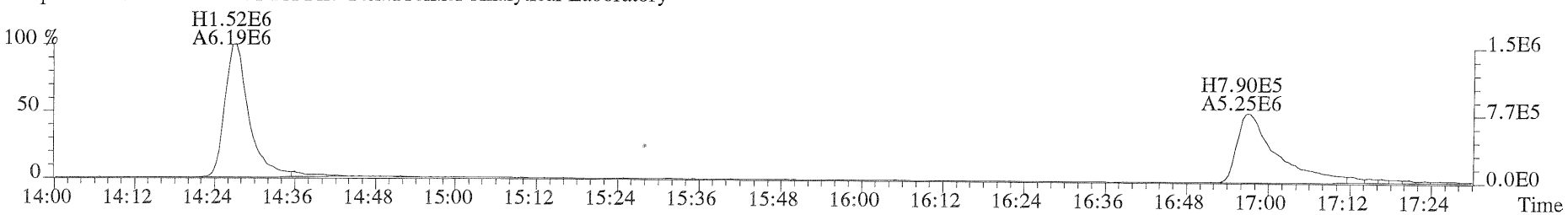
File:19SEP16Z #1-548 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:12 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



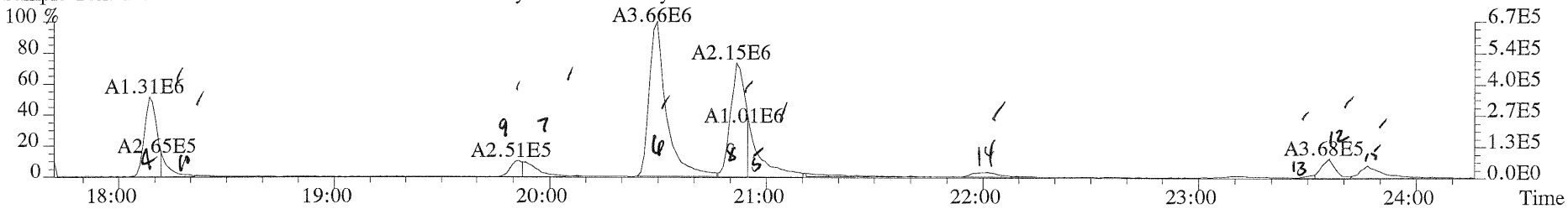
File:19SEP16Z #1-548 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:12 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



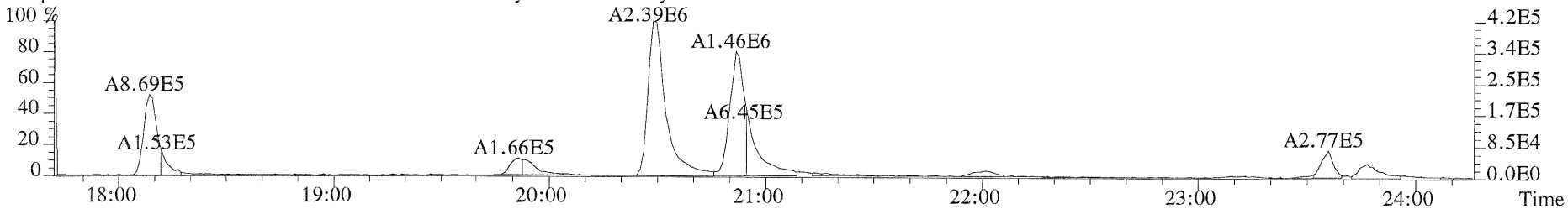
File:19SEP16Z #1-548 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:12 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



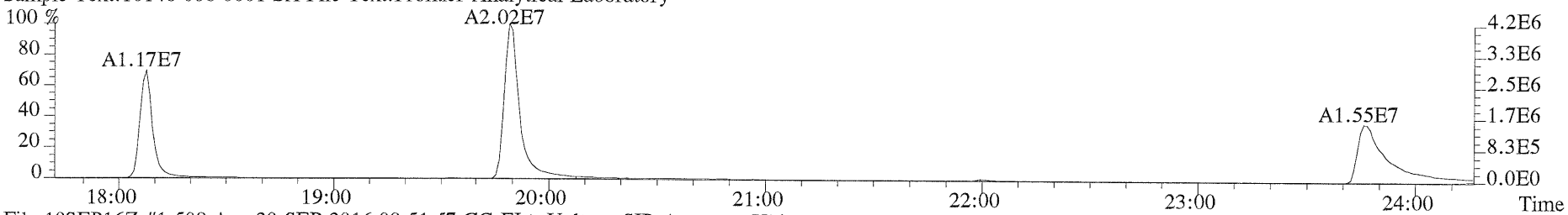
File:19SEP16Z #1-509 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



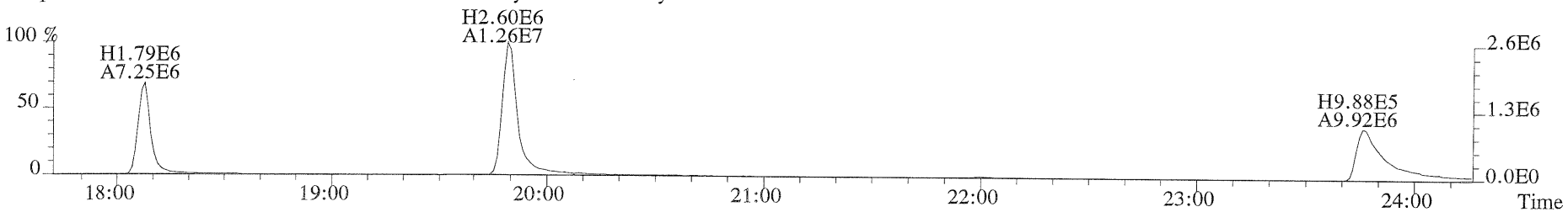
File:19SEP16Z #1-509 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



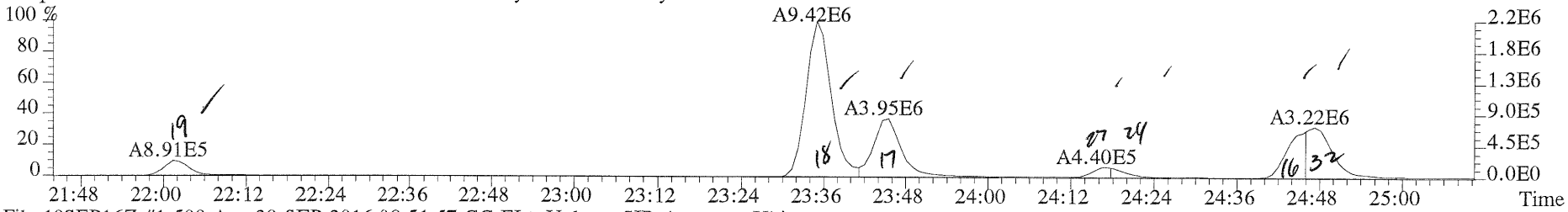
File:19SEP16Z #1-509 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



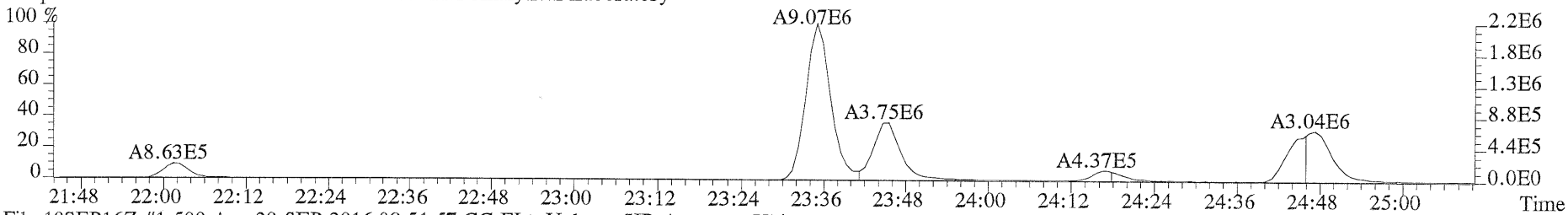
File:19SEP16Z #1-509 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



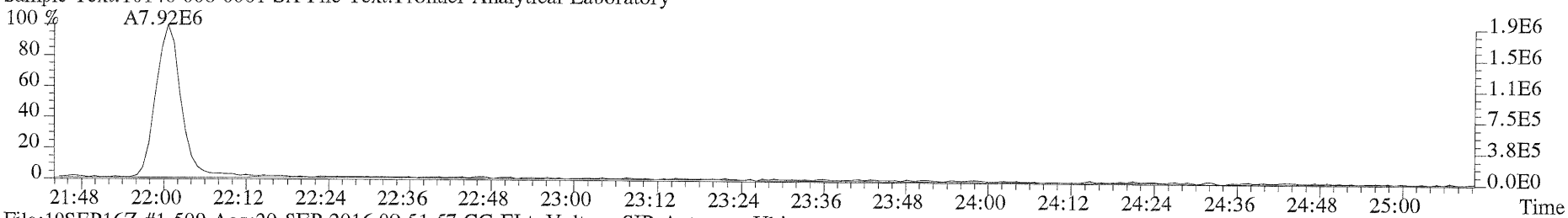
File:19SEP16Z #1-509 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



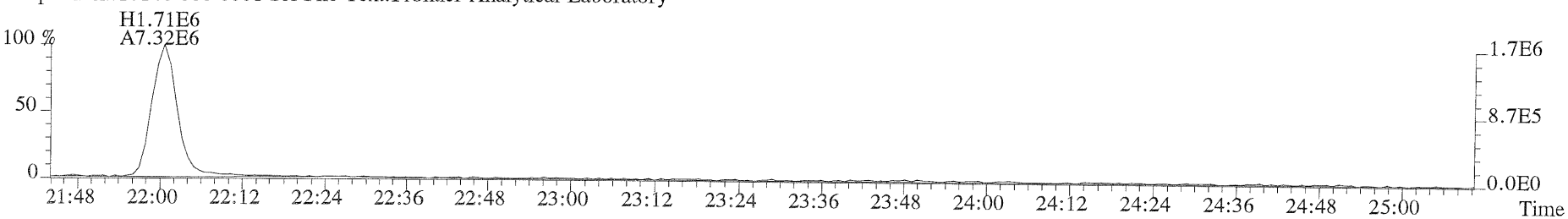
File:19SEP16Z #1-509 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



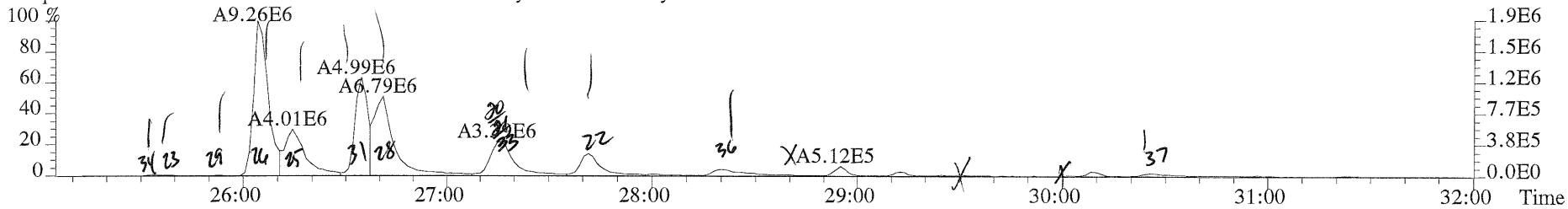
File:19SEP16Z #1-509 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



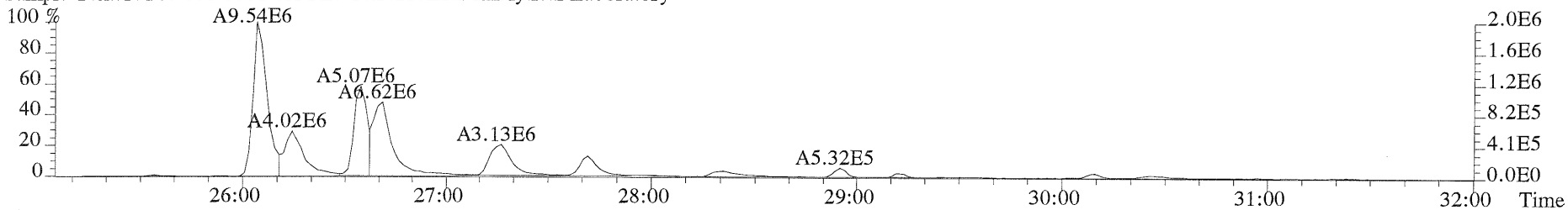
File:19SEP16Z #1-509 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



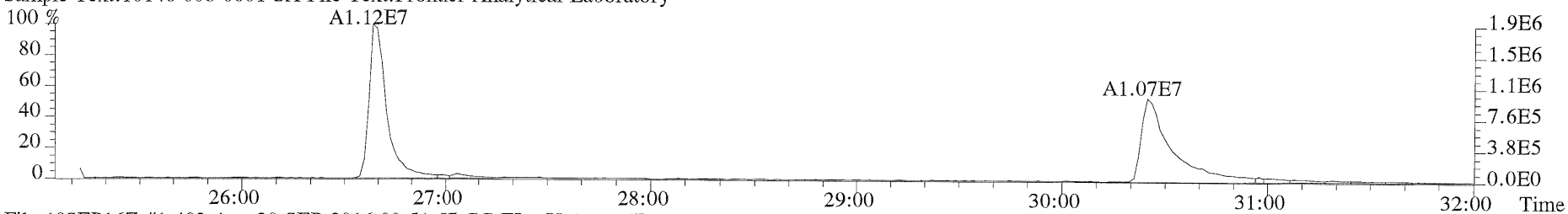
File:19SEP16Z #1-403 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



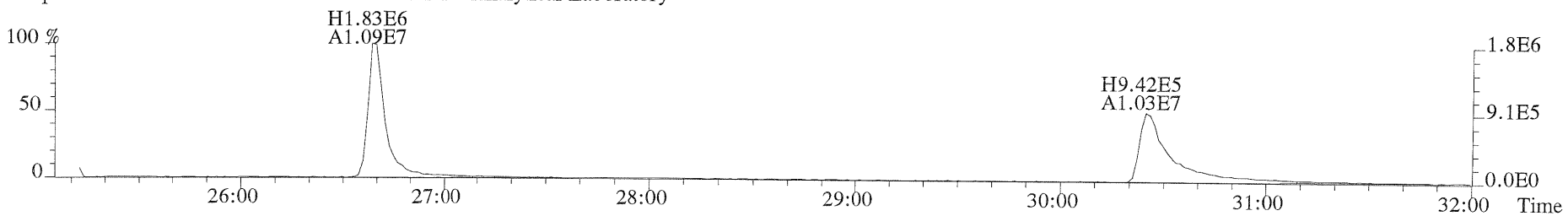
File:19SEP16Z #1-403 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



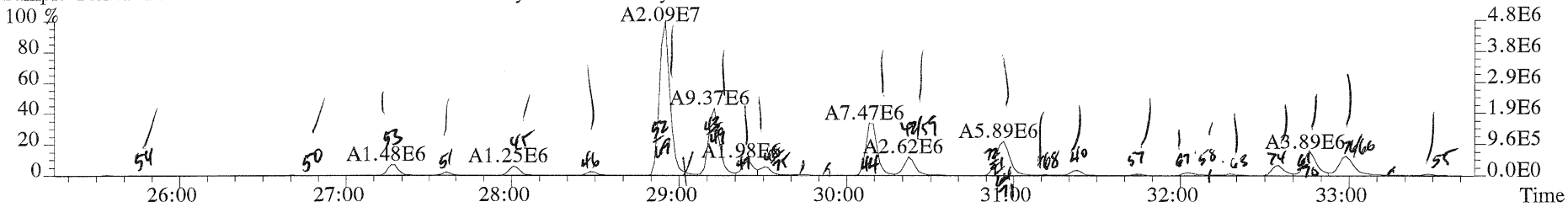
File:19SEP16Z #1-403 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



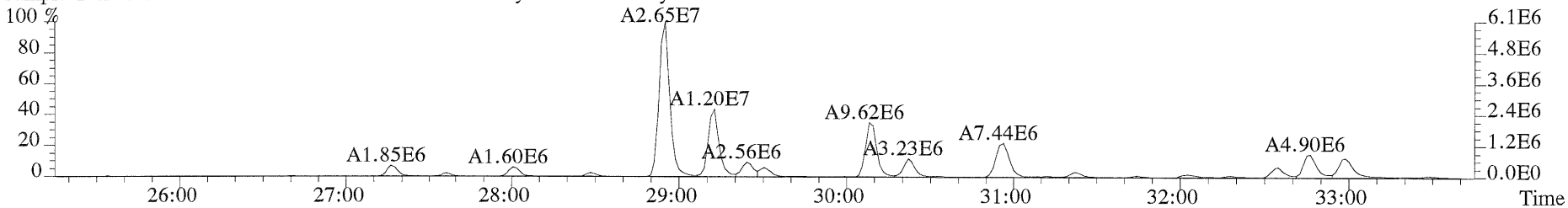
File:19SEP16Z #1-403 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



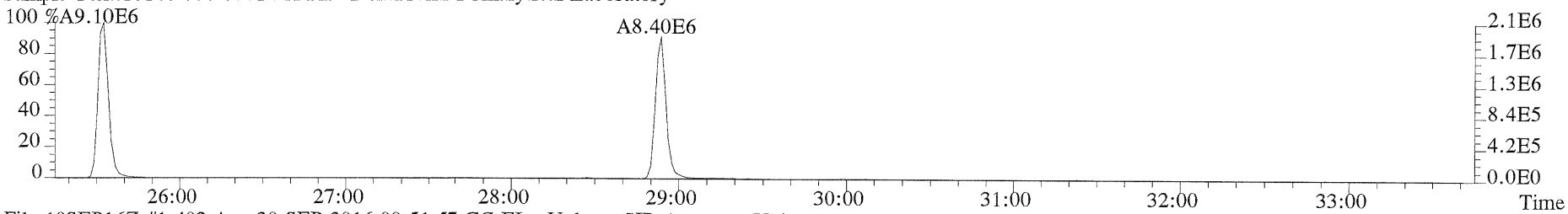
File:19SEP16Z #1-403 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-403 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-403 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



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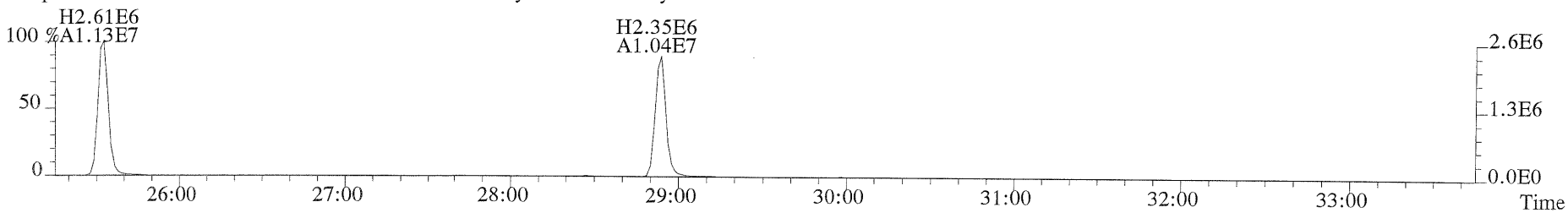
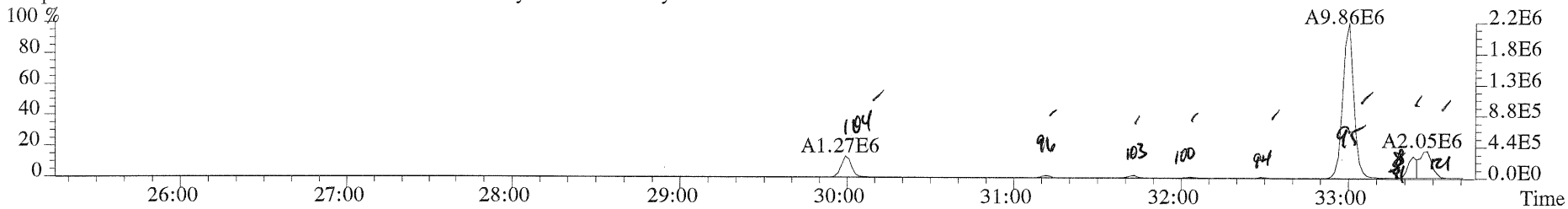
303.9597 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-403 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



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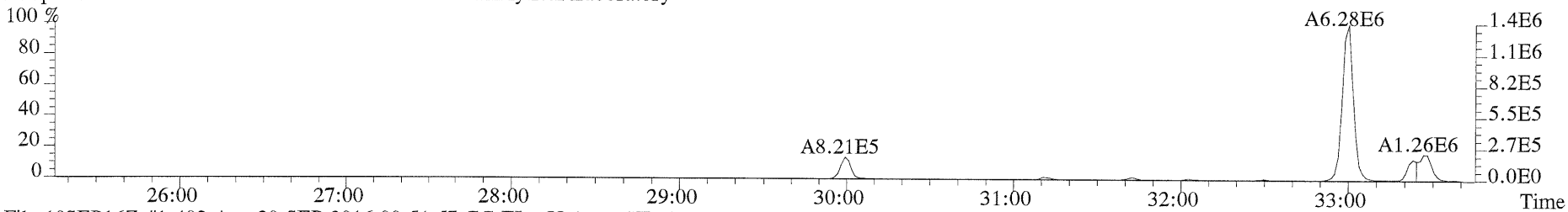
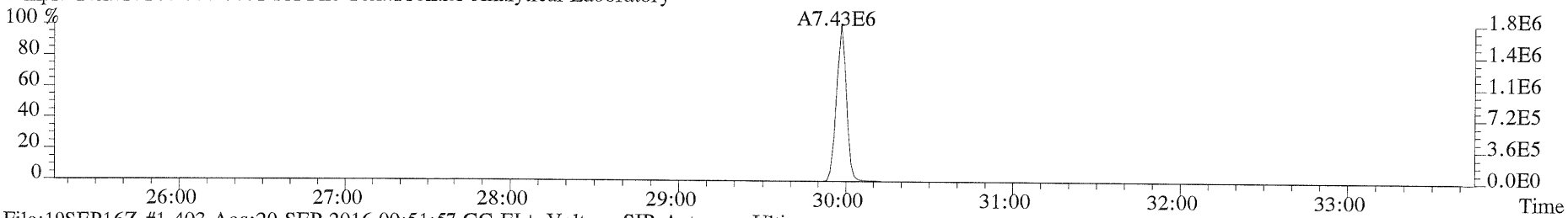
327.8775 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-403 Acq:20-SEP-2016 00:51:57 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:10146-008-0001-SA File Text:Frontier Analytical Laboratory



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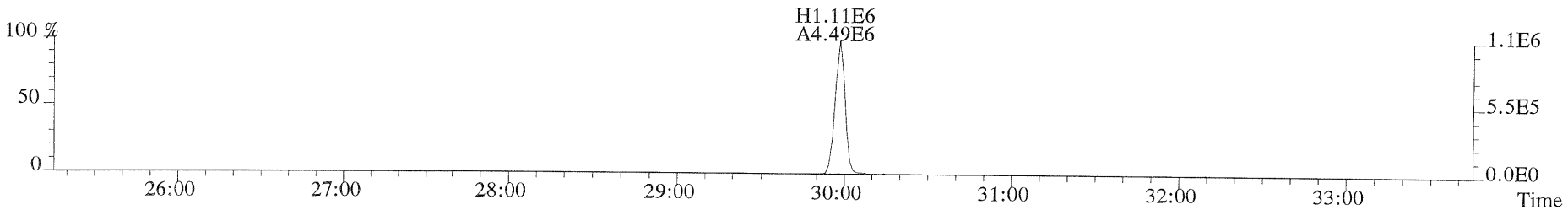
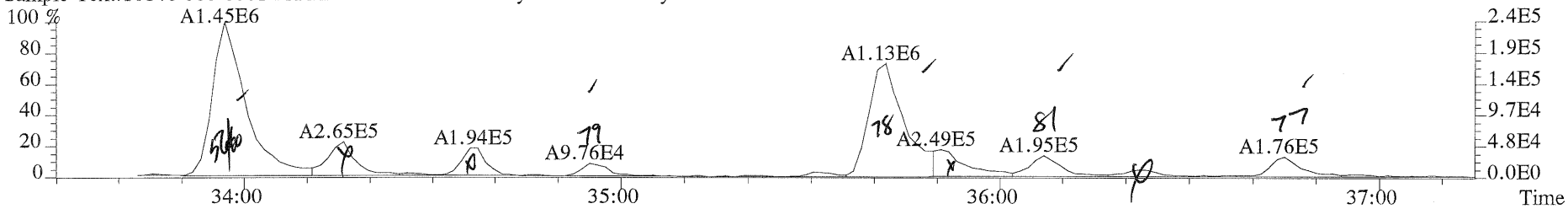
339.9178 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:20-SEP-2016 00:51:57 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:10146-008-0001-SA File Text:Frontier Analytical Laboratory



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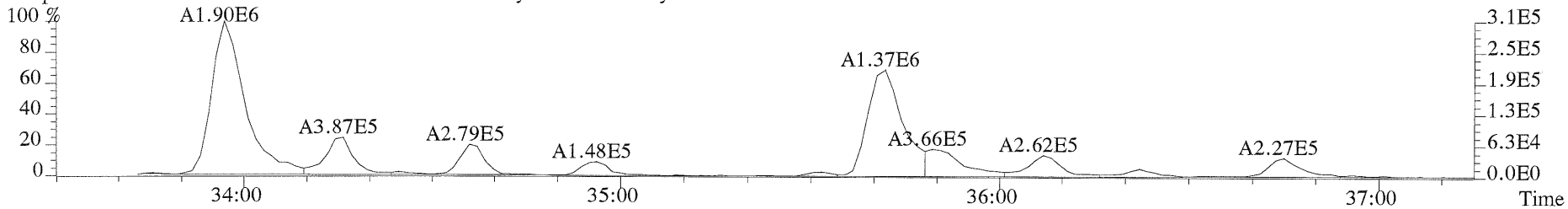
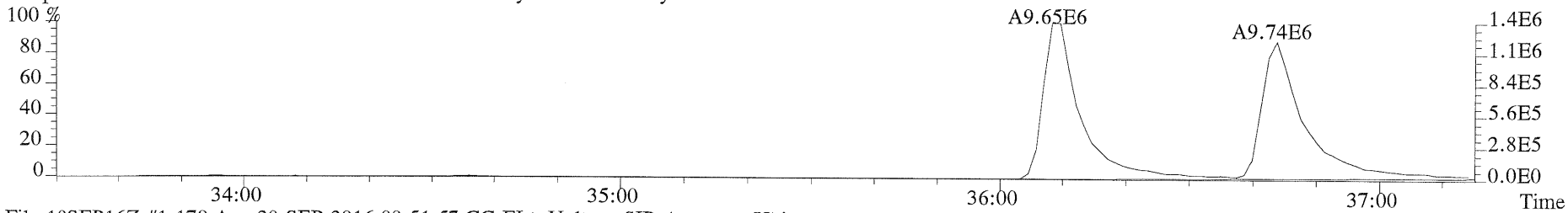
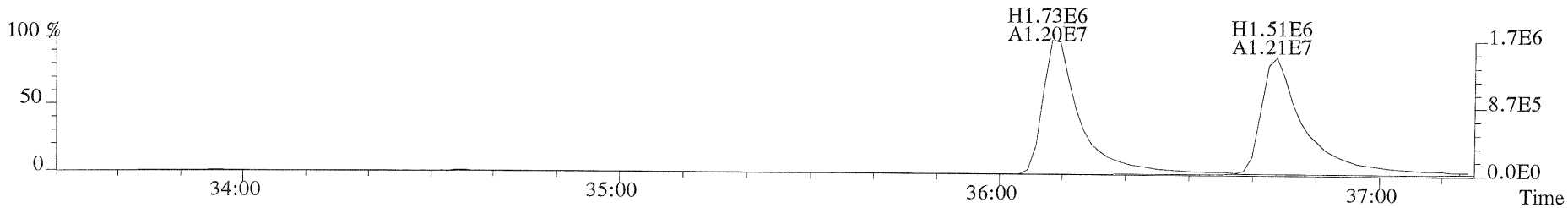
291.9194 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



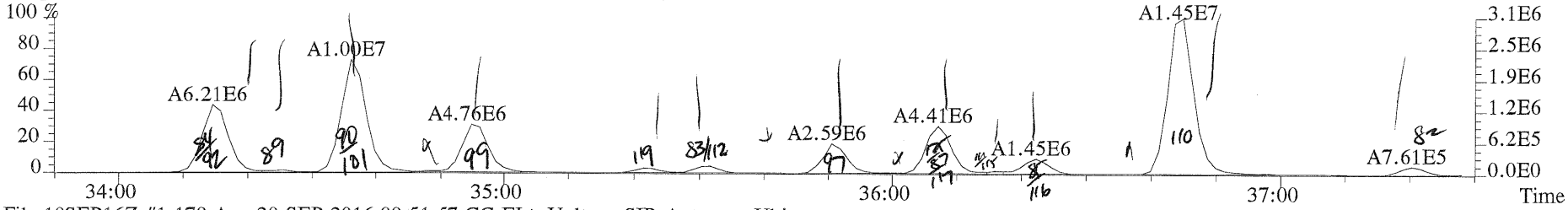
File:19SEP16Z #1-179 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



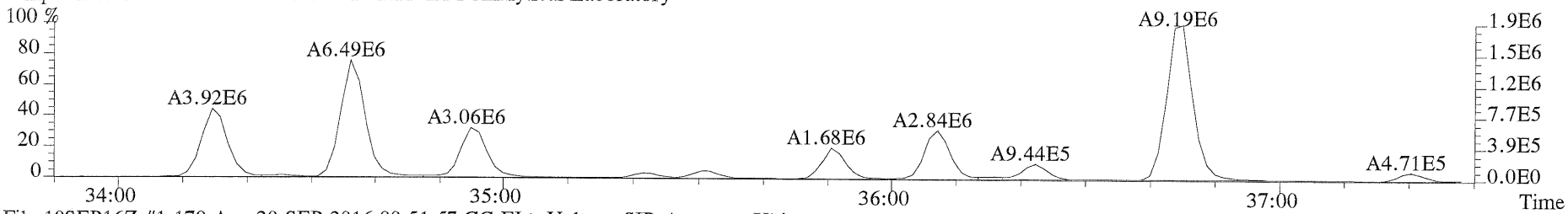
File:19SEP16Z #1-179 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:20-SEP-2016 00:51:57 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:10146-008-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:20-SEP-2016 00:51:57 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:10146-008-0001-SA File Text:Frontier Analytical Laboratory



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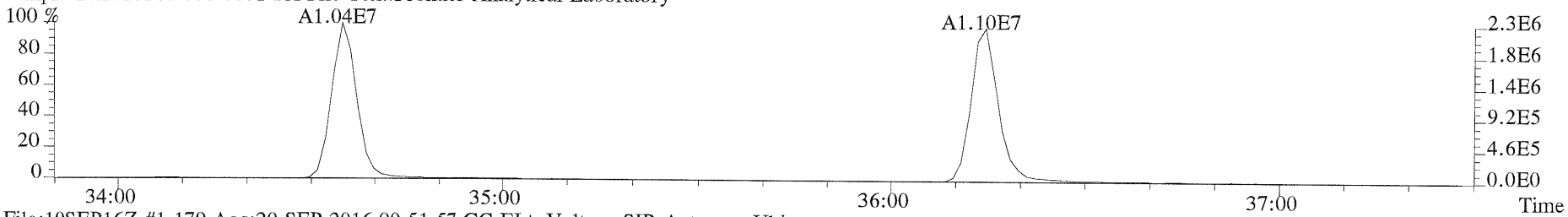
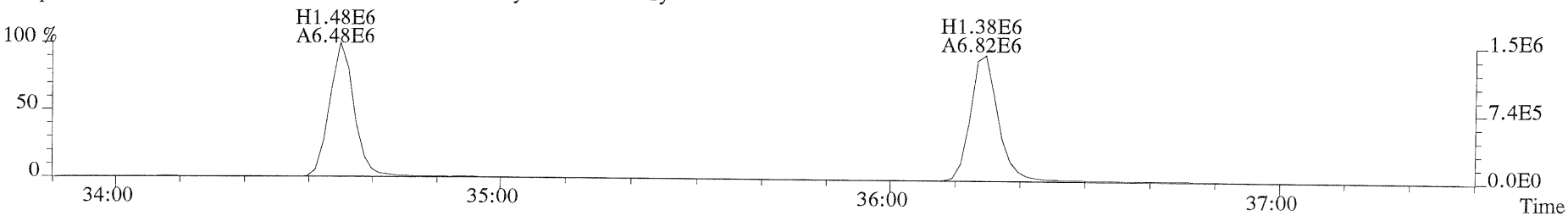
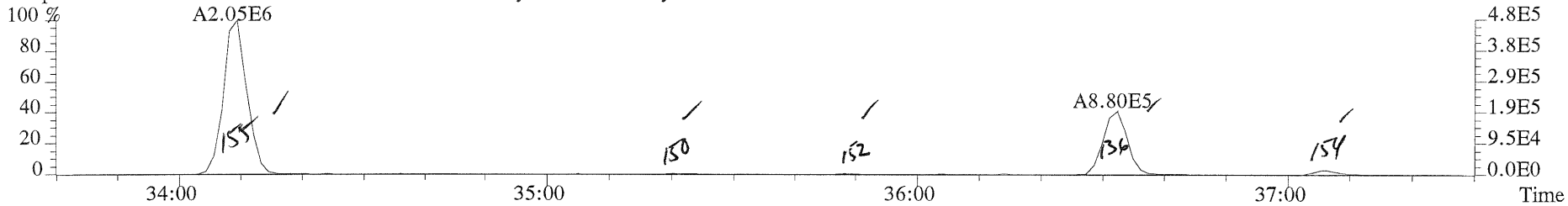
337.9207 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:20-SEP-2016 00:51:57 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:10146-008-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:20-SEP-2016 00:51:57 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:10146-008-0001-SA File Text:Frontier Analytical Laboratory



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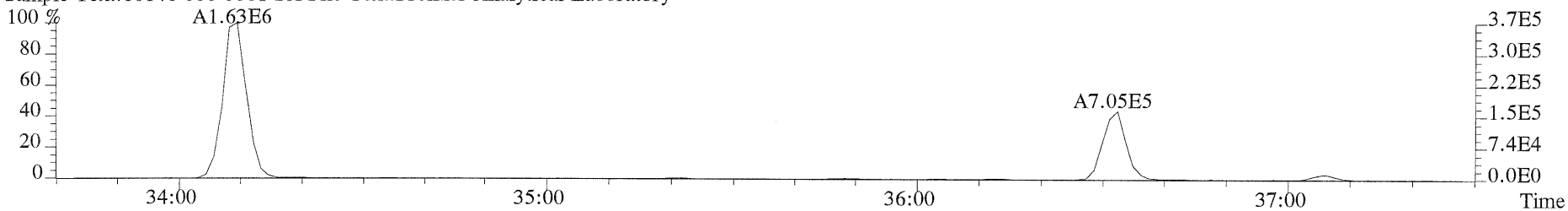
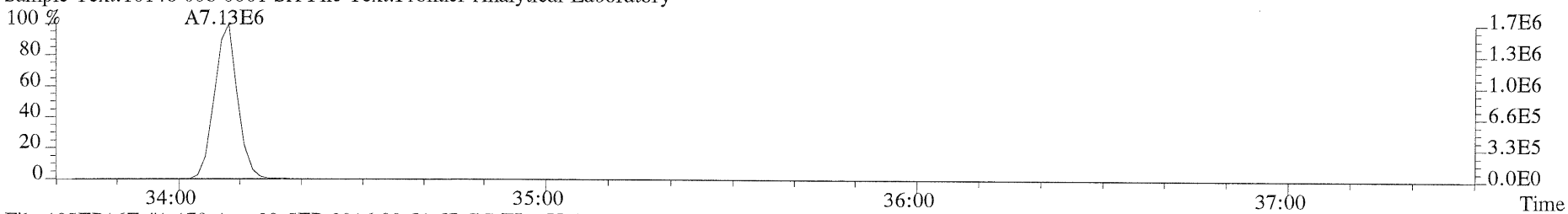
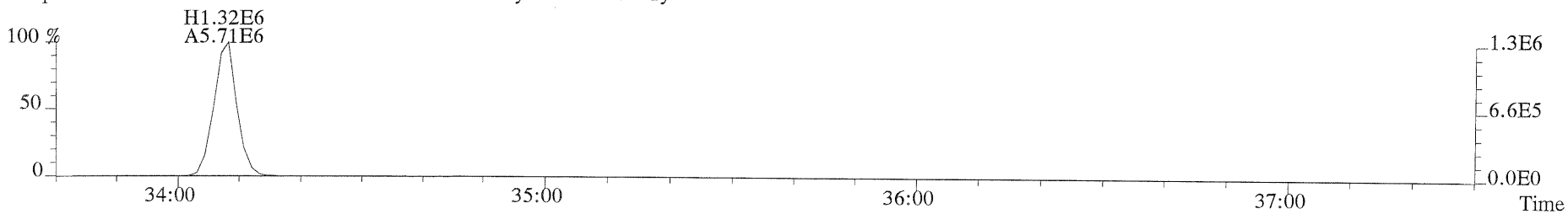
361.8385 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



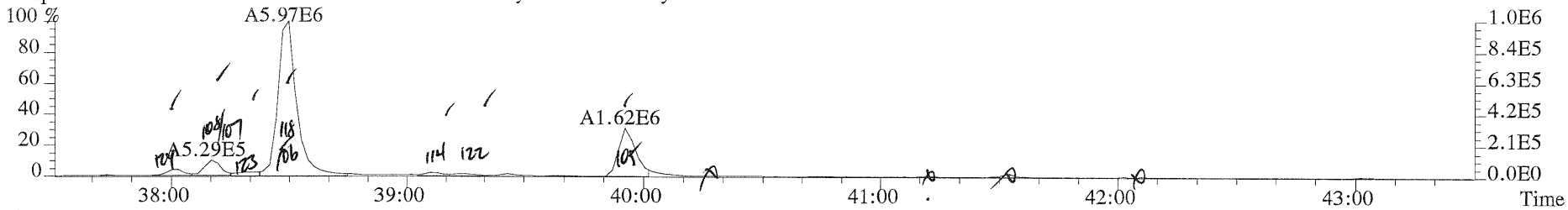
File:19SEP16Z #1-179 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:20-SEP-2016 00:51:57 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:10146-008-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



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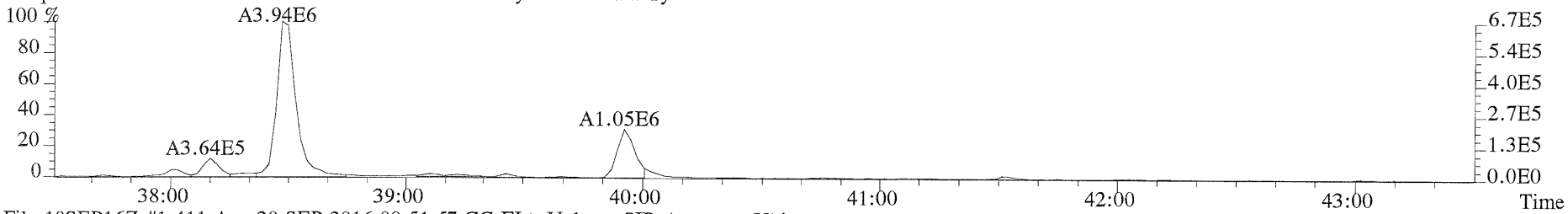
327.8775 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



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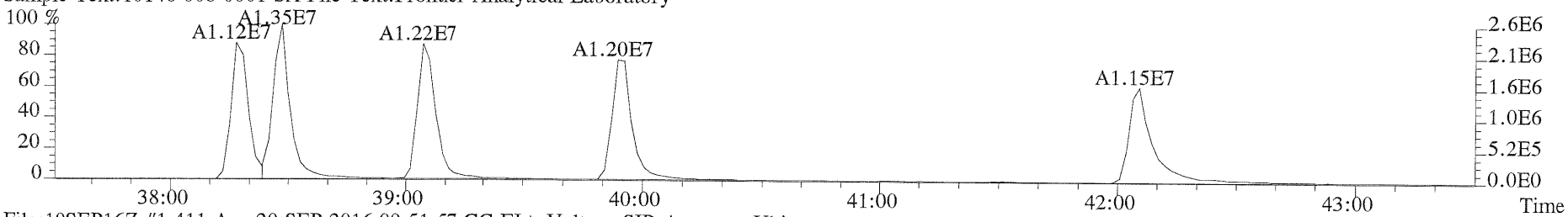
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



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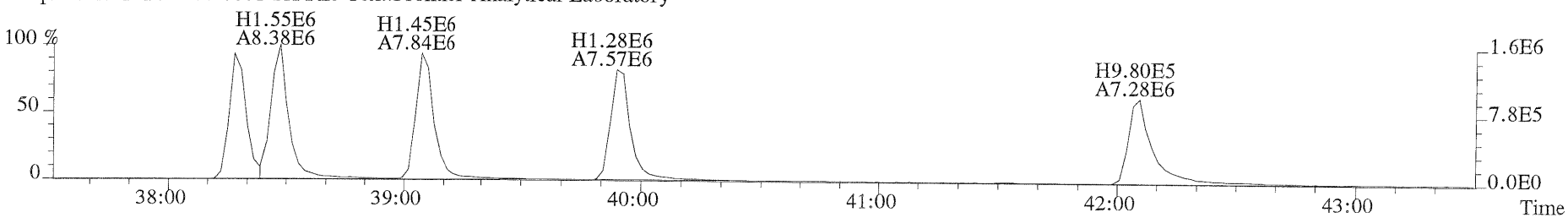
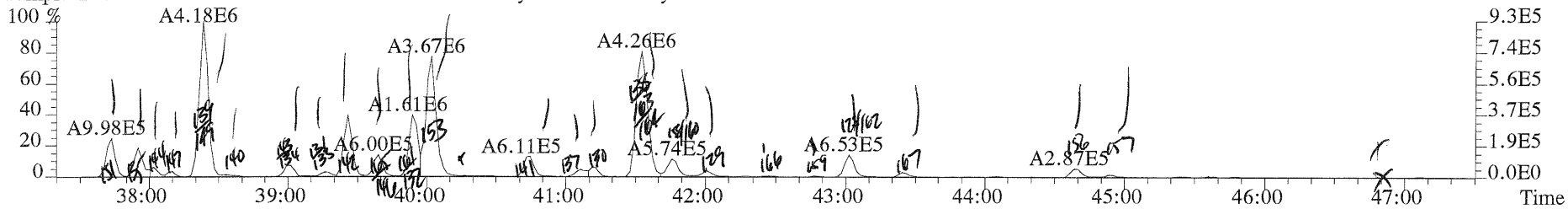
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:20-SEP-2016 00:51:57 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:10146-008-0001-SA File Text:Frontier Analytical Laboratory



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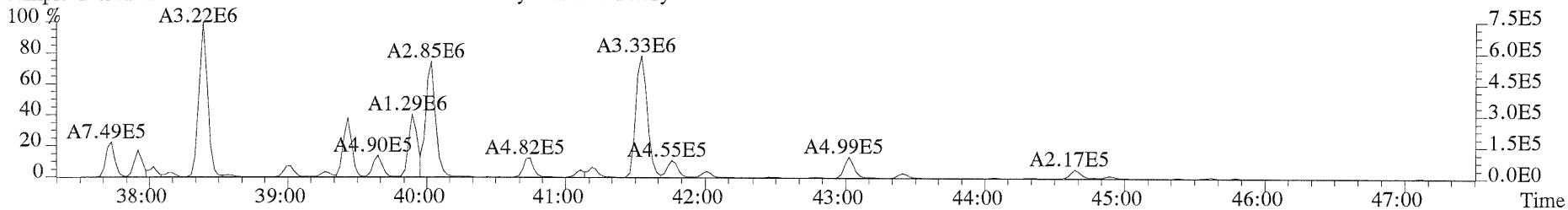
361.8385 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



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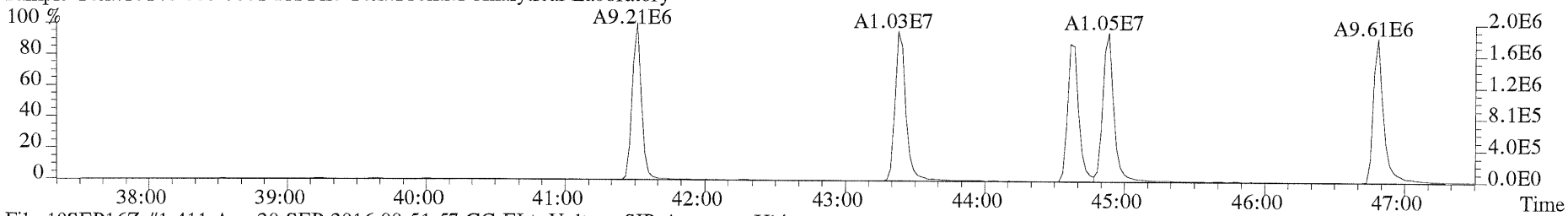
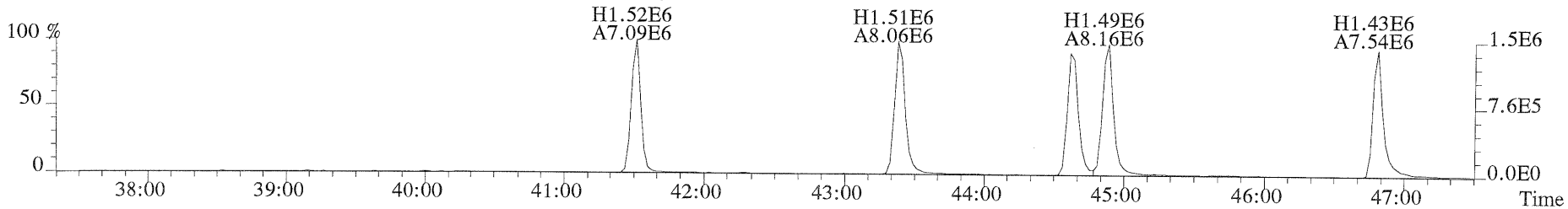
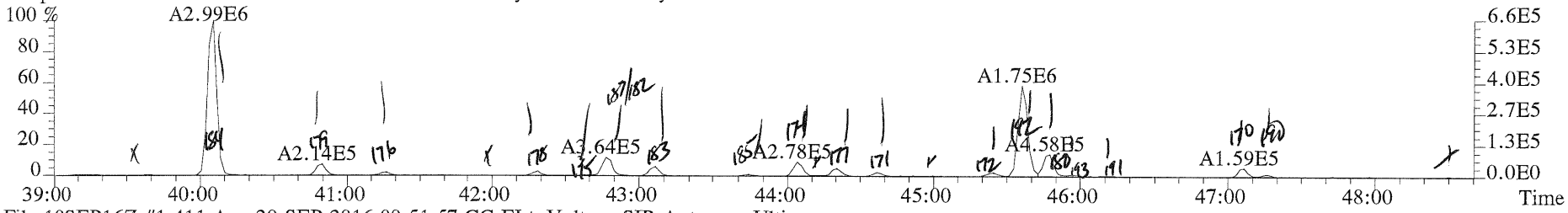
371.8817 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



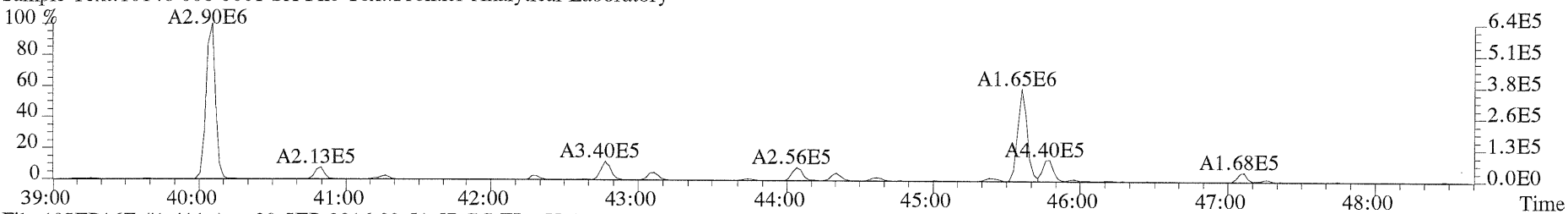
File:19SEP16Z #1-411 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



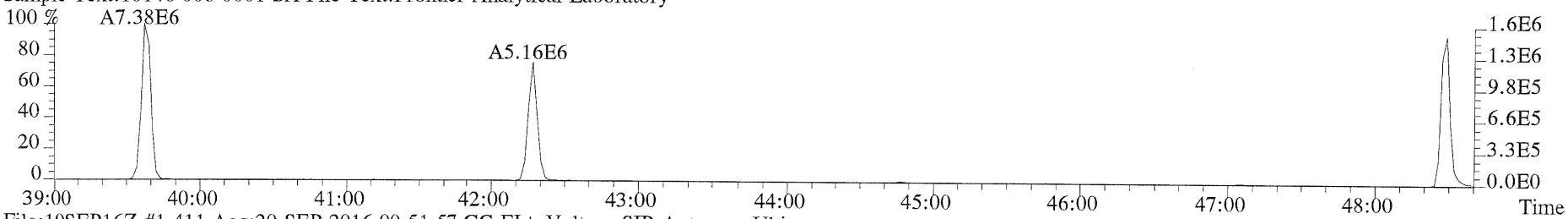
File:19SEP16Z #1-411 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



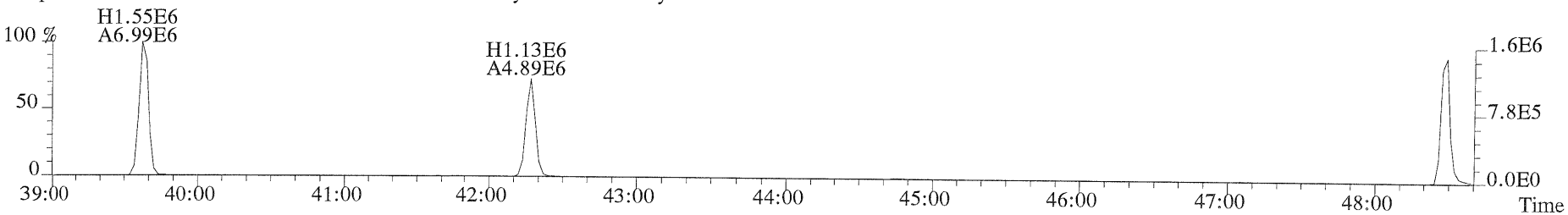
File:19SEP16Z #1-411 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:20-SEP-2016 00:51:57 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:10146-008-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:20-SEP-2016 00:51:57 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:10146-008-0001-SA File Text:Frontier Analytical Laboratory



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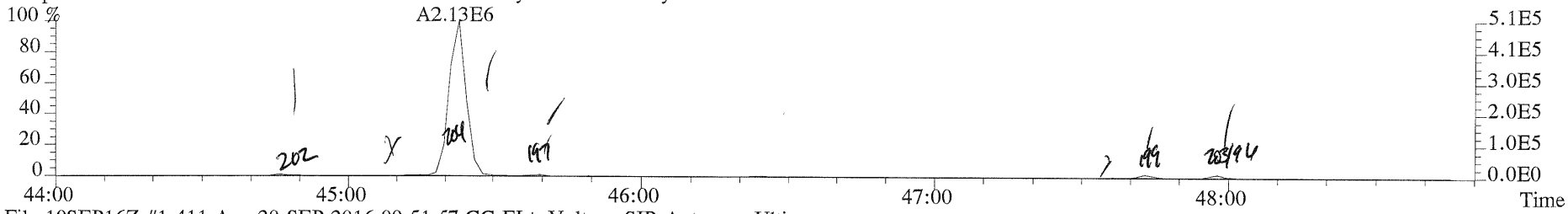
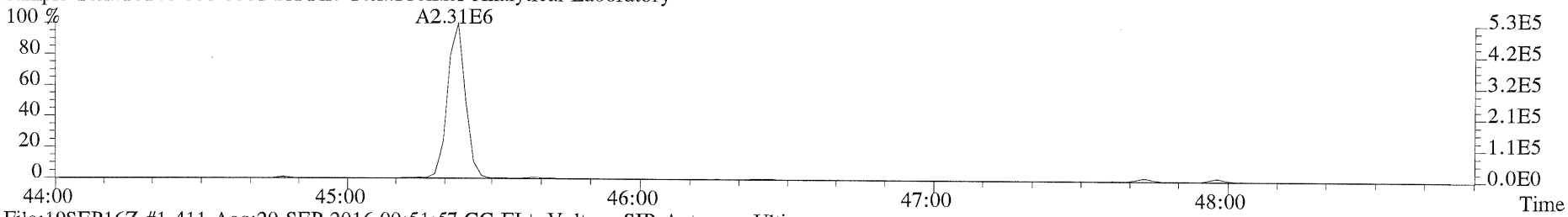
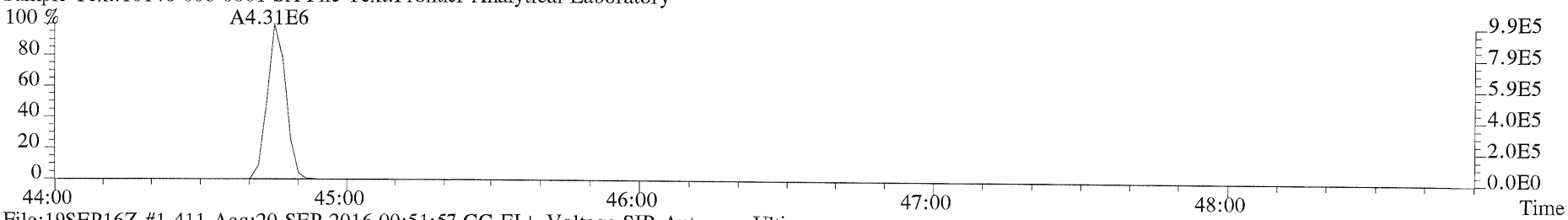
427.7635 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



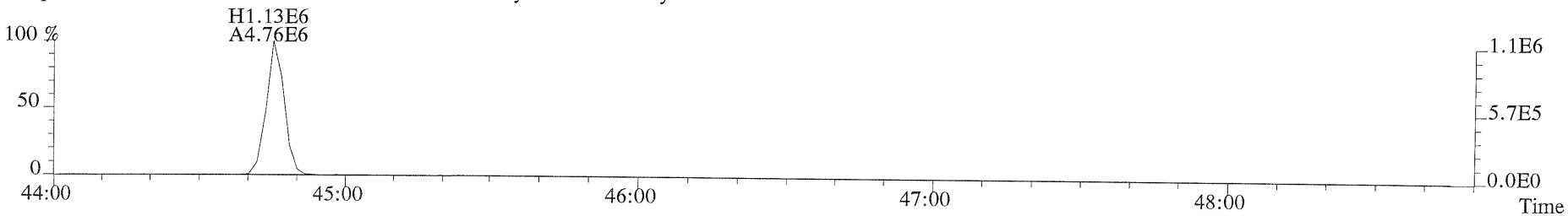
File:19SEP16Z #1-411 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



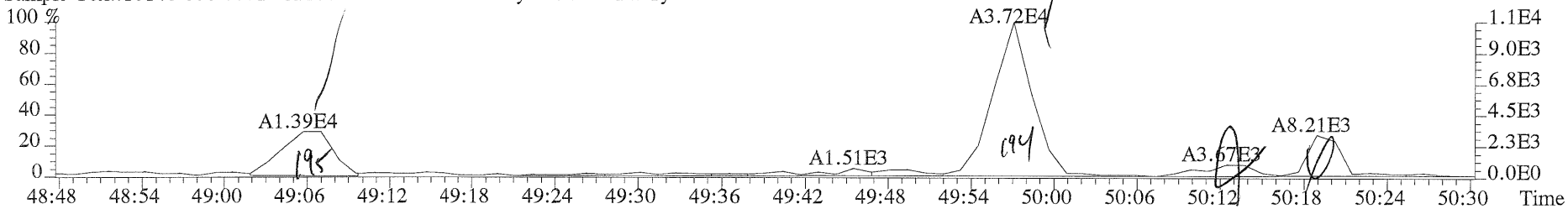
File:19SEP16Z #1-411 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



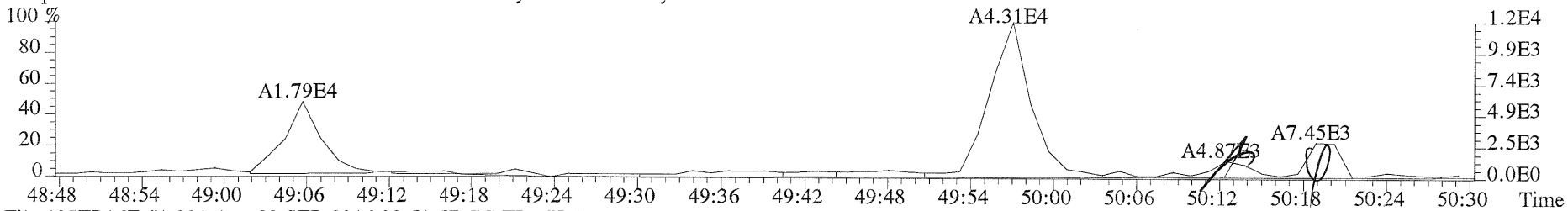
File:19SEP16Z #1-411 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



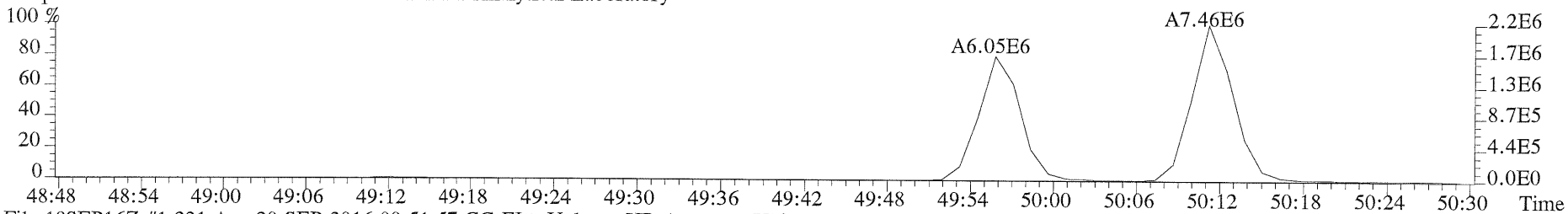
File:19SEP16Z #1-221 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



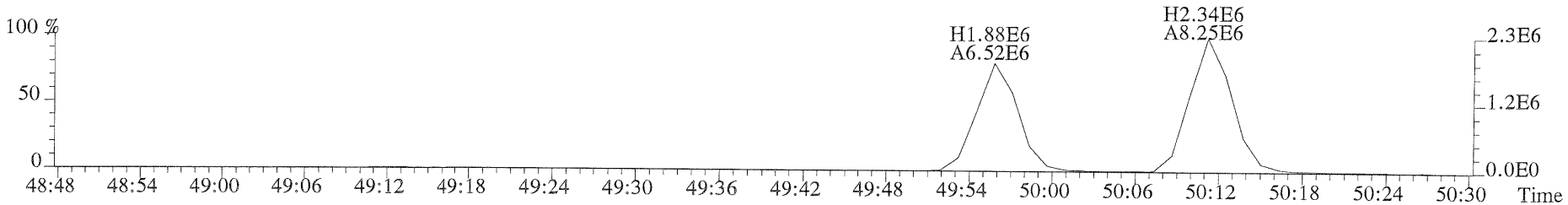
File:19SEP16Z #1-221 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



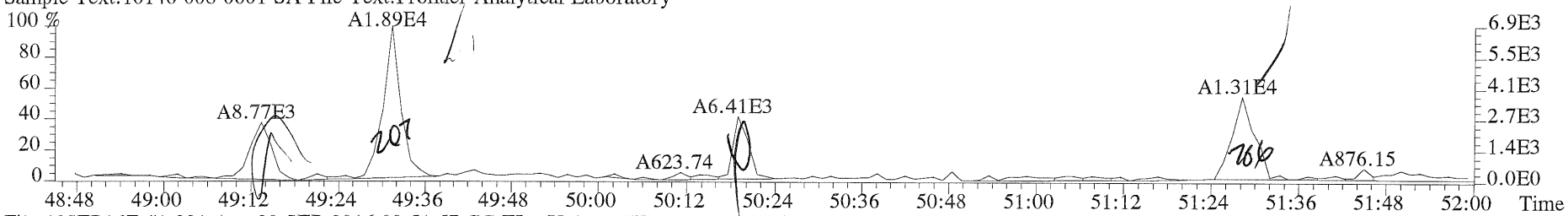
File:19SEP16Z #1-221 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



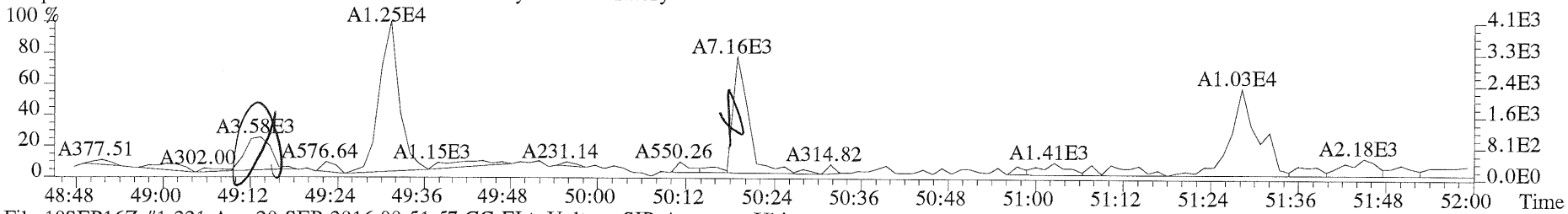
File:19SEP16Z #1-221 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



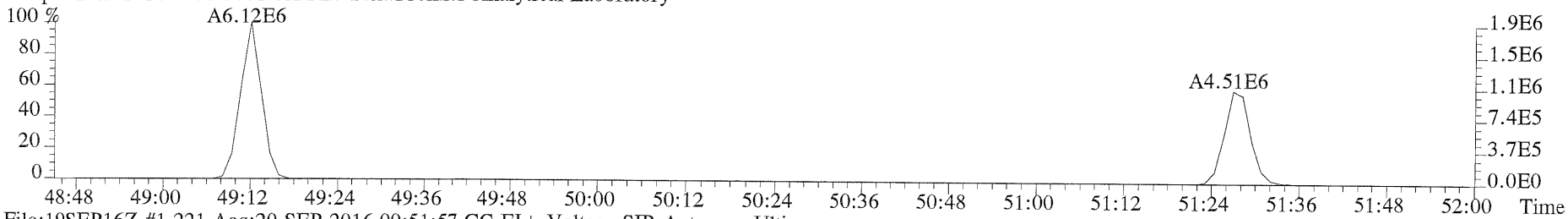
File:19SEP16Z #1-221 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



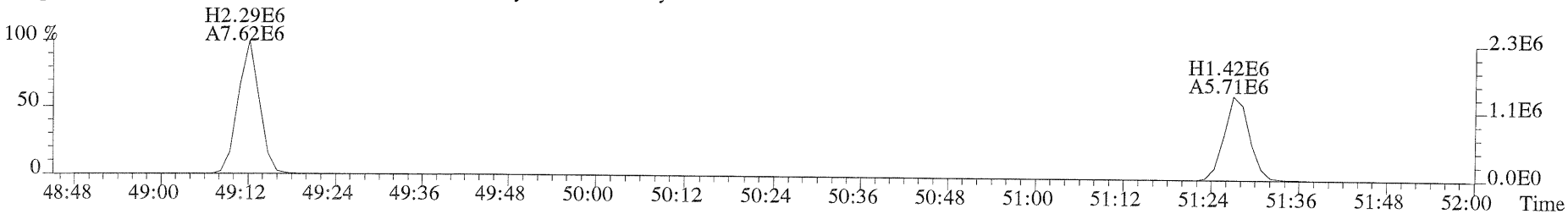
File:19SEP16Z #1-221 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



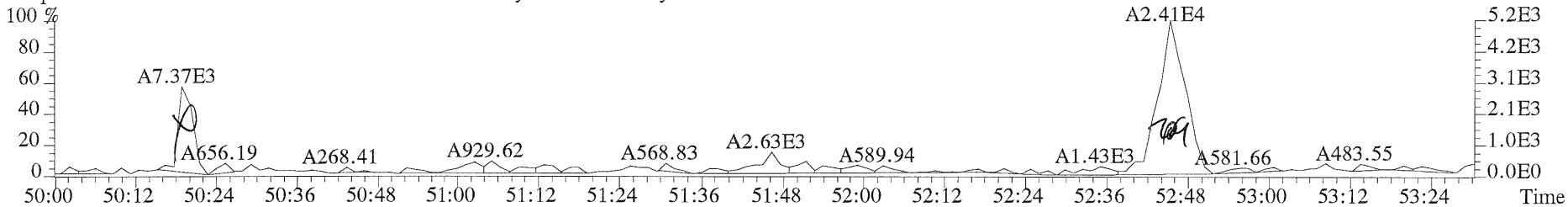
File:19SEP16Z #1-221 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



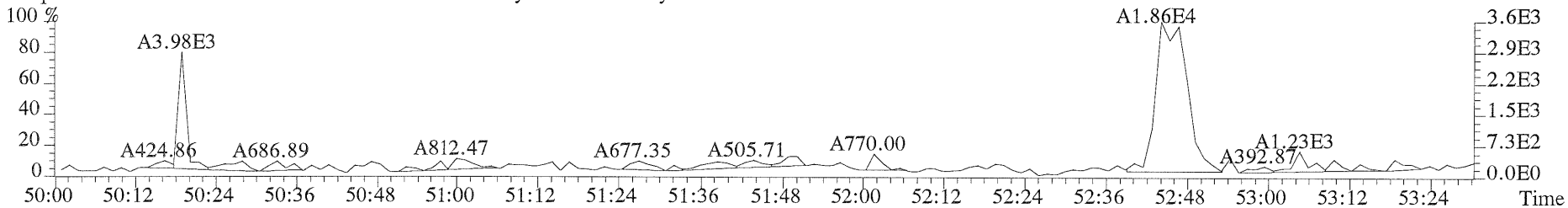
File:19SEP16Z #1-221 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



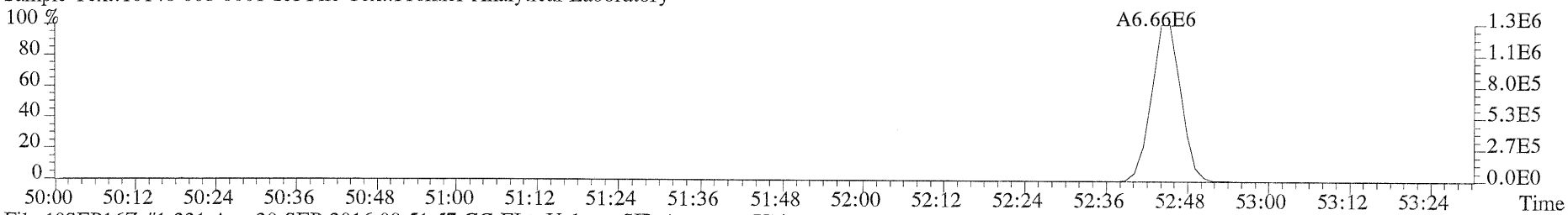
File:19SEP16Z #1-221 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



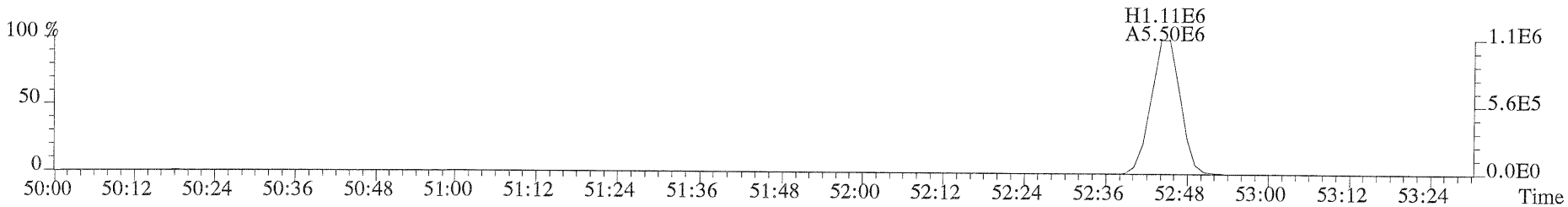
File:19SEP16Z #1-221 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:20-SEP-2016 00:51:57 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-008-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10146-009-0001-SA Filename: 19SEP16Z Sam:13 Acquired: 20-SEP-16 01:48:23 ICal: DAILY209FAL4-9-19-16
Client ID: LDW-BA-IN-ENR+AC-CC-S010 ConCal: ST091916Z1 EndCal: ST091916Z2
Results: 10146 GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	2.17e+05	2.96 y	14:28	1.12	57.6		-	-	*	
13C-PCB-1	3.38e+07	3.26 y	14:28	0.94	8470					84.7
PCB-2	*	* n	NotFnd	0.91	*		864	812	7.43	
PCB-3	*	* n	NotFnd	1.28	*		864	812	7.02	
13C-PCB-3	2.97e+07	3.16 y	16:57	0.80	8690					86.9
PCB-4	8.56e+05	1.42 y	18:09	1.14	317		-	-	*	
PCB-10	1.20e+05	1.39 y	18:13	1.32	32.9		-	-	*	
13C-PCB-4	2.37e+07	1.59 y	18:08	0.63	8890					88.9
PCB-9	2.27e+05	1.36 y	19:52	1.35	60.7		-	-	*	
PCB-7	1.97e+05	1.36 y	19:54	1.51	47.3		-	-	*	
PCB-6	2.04e+06	1.45 y	20:30	1.47	500		-	-	*	
PCB-8	1.25e+06	1.50 y	20:53	1.28	351		-	-	*	
PCB-5	1.07e+06	1.44 y	20:54	1.55	251		-	-	*	
PCB-14	3.58e+05	1.48 y	22:00	1.38	93.9		-	-	*	
PCB-11	6.84e+04	1.43 y	23:09	1.14	21.6		-	-	*	
PCB-13	*	* n	NotFnd	1.15	*		1510	1680	16.5	
PCB-12	3.12e+05	1.39 y	23:35	1.29	87.4		-	-	*	
PCB-15	3.73e+05	1.41 y	23:46	1.33	89.0		-	-	*	
13C-PCB-15	3.16e+07	1.72 y	23:46	0.88	8440					84.4
PCB-19	8.97e+05	1.05 y	22:01	1.22	410		-	-	*	
PCB-30	*	* n	NotFnd	1.71	*		772	700	4.88	
PCB-18	1.01e+07	1.03 y	23:35	1.12	5010		-	-	*	
PCB-17	4.48e+06	1.08 y	23:45	1.29	1930		-	-	*	
PCB-27	6.03e+05	1.04 y	24:17	1.63	206		-	-	*	
PCB-24	3.87e+05	1.12 y	24:18	1.69	128		-	-	*	
PCB-16	2.49e+06	1.07 y	24:46	1.28	1090		-	-	*	
PCB-32	3.49e+06	1.04 y	24:47	1.55	1260		-	-	*	
13C-PCB-19	1.79e+07	1.05 y	22:01	0.47	8900					89.0
13C-PCB-9	4.26e+07	1.61 y	19:49	-	43.4					
PCB-34	1.22e+05	1.09 y	25:34	0.98	49.9		-	-	*	
PCB-23	5.18e+04	0.94 y	25:38	1.44	14.3	J	-	-	*	
PCB-29	4.77e+04	1.11 y	25:53	1.25	15.2	J	-	-	*	
PCB-26	1.10e+07	0.98 y	26:06	1.21	3630		-	-	*	
PCB-25	4.22e+06	1.00 y	26:16	1.53	1110		-	-	*	
PCB-31	6.29e+06	0.97 y	26:35	1.11	2260		-	-	*	
PCB-28	8.99e+06	0.98 y	26:41	1.60	2240		-	-	*	
PCB-20	4.50e+06	0.95 y	27:16	1.32	1370		-	-	*	Co-elute PCB 21/33
PCB-21	4.50e+06	0.95 y	27:16	1.32	1370		-	-	*	Co-elute PCB 20/33
PCB-33	4.50e+06	0.95 y	27:16	1.32	1370		-	-	*	Co-elute PCB 20/21
PCB-22	2.36e+06	0.97 y	27:42	1.34	706		-	-	*	
PCB-36	2.19e+06	0.91 y	28:20	1.11	788		-	-	*	
PCB-39	*	* n	NotFnd	1.09	*		575	456	9.70	
PCB-38	*	* n	NotFnd	1.24	*		575	456	8.55	
PCB-35	*	* n	NotFnd	0.96	*		575	456	11.0	
PCB-37	5.35e+05	0.96 y	30:26	1.29	166		-	-	*	
13C-PCB-37	2.50e+07	1.10 y	30:25	1.43	7360					73.6

PCB-54	6.95e+04	0.73	y	25:34	1.17	25.1		-	-	*	
PCB-50	9.10e+04	0.84	y	26:40	0.86	44.7		-	-	*	
PCB-53	2.70e+06	0.79	y	27:16	0.83	1380		-	-	*	
PCB-51	7.26e+05	0.76	y	27:37	0.86	355		-	-	*	
PCB-45	2.17e+06	0.80	y	28:01	0.74	1240		-	-	*	
PCB-46	8.18e+05	0.82	y	28:28	0.69	503		-	-	*	
PCB-52	4.26e+07	0.79	y	28:55	1.02	17600		-	-	*	Co-elute PCB 69
PCB-69	4.26e+07	0.79	y	28:55	1.02	17600		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.05	*		1700	1250	13.2	
PCB-43	1.92e+07	0.78	y	29:13	0.79	10200		-	-	*	Co-elute PCB 49
PCB-49	1.92e+07	0.78	y	29:13	0.79	10200		-	-	*	Co-elute PCB 43
PCB-47	4.30e+06	0.79	y	29:24	0.96	1880		-	-	*	
PCB-48	2.78e+06	0.85	y	29:30	1.05	1120		-	-	*	Co-elute PCB 75
PCB-75	2.78e+06	0.85	y	29:30	1.05	1120		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.04	*		1700	1250	13.3	
PCB-62	*	*	n	NotFnd	1.01	*		1700	1250	13.7	
PCB-44	1.46e+07	0.79	y	30:08	0.73	8460		-	-	*	
PCB-42	5.16e+06	0.81	y	30:22	0.99	2210		-	-	*	Co-elute PCB 59
PCB-59	5.16e+06	0.81	y	30:22	0.99	2210		-	-	*	Co-elute PCB 42
PCB-72	1.19e+07	0.77	y	30:56	1.06	4730		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.19e+07	0.77	y	30:56	1.06	4730		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.19e+07	0.77	y	30:56	1.06	4730		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.19e+07	0.77	y	30:56	1.06	4730		-	-	*	Co-elute PCB 72/41/71
PCB-68	3.24e+05	0.81	y	31:12	1.12	122		-	-	*	
PCB-40	1.50e+06	0.78	y	31:23	0.64	992		-	-	*	
PCB-57	4.90e+05	0.81	y	31:44	1.06	196		-	-	*	
PCB-67	9.83e+05	0.78	y	32:02	1.06	390		-	-	*	
PCB-58	2.71e+05	0.76	y	32:07	1.03	111		-	-	*	
PCB-63	5.40e+05	0.78	y	32:19	1.07	213		-	-	*	
PCB-74	3.64e+06	0.79	y	32:35	1.11	1390		-	-	*	
PCB-61	8.81e+06	0.80	y	32:46	1.08	3420		-	-	*	Co-elute PCB 70
PCB-70	8.81e+06	0.80	y	32:46	1.08	3420		-	-	*	Co-elute PCB 61
PCB-76	8.57e+06	0.73	y	32:59	1.14	3160		-	-	*	Co-elute PCB 66
PCB-66	8.57e+06	0.73	y	32:59	1.14	3160		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.22	*		1700	1250	11.4	
PCB-55	5.12e+05	0.70	y	33:28	1.10	197		-	-	*	
13C-PCB-54	2.37e+07	0.80	y	25:33	1.20	8320					83.2
PCB-104	3.51e+06	1.59	y	29:59	1.25	1950		-	-	*	
PCB-96	2.29e+05	1.65	y	31:12	1.14	140		-	-	*	
PCB-103	2.93e+05	1.52	y	31:42	0.94	217		-	-	*	
PCB-100	1.17e+05	1.56	y	32:03	0.91	88.9		-	-	*	
PCB-94	9.41e+04	1.52	y	32:29	0.76	86.2		-	-	*	
PCB-98	*	*	n	NotFnd	0.97	*		360	444	6.10	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.97	*		360	444	6.10	Co-elute PCB 98
PCB-95	1.77e+07	1.59	y	33:00	0.80	15300		-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*		360	444	7.63	
PCB-88	2.35e+06	1.58	y	33:24	0.81	2010		-	-	*	Co-elute PCB 91
PCB-91	2.35e+06	1.58	y	33:24	0.81	2010		-	-	*	Co-elute PCB 88
PCB-121	4.75e+06	1.60	y	33:28	1.15	2870		-	-	*	
13C-PCB-104	1.44e+07	1.62	y	29:58	0.66	9270					92.7
13C-PCB-28	2.78e+07	1.07	y	26:39	1.63	7200					72.0
13C-PCB-52	2.37e+07	0.81	y	28:54	-	44.5					

PCB-56	3.28e+06	0.76	y	33:57	1.24	1010		-	-	*	Co-elute PCB 60
PCB-60	3.28e+06	0.76	y	33:57	1.24	1010		-	-	*	Co-elute PCB 56
PCB-79	2.26e+05	0.67	y	34:56	1.23	70.0		-	-	*	
PCB-78	4.93e+06	0.78	y	35:41	1.13	1660		-	-	*	
PCB-81	6.32e+05	0.75	y	36:07	1.23	197		-	-	*	
13C-PCB-81	2.61e+07	0.80	y	36:08	1.35	9230					92.3
PCB-77	4.71e+05	0.75	y	36:45	1.14	155		-	-	*	
13C-PCB-77	2.66e+07	0.81	y	36:42	1.37	9210					92.1
PCB-155	5.73e+06	1.27	y	34:10	1.18	3090		-	-	*	
PCB-150	3.33e+04	1.21	y	35:22	1.01	20.9		-	-	*	
PCB-152	2.41e+04	1.26	y	35:47	1.00	15.4	J	-	-	*	
PCB-145	*	*	n	NotFnd	1.00	*		404	468	6.24	
PCB-136	1.90e+06	1.26	y	36:32	0.94	1290		-	-	*	
PCB-148	*	*	n	NotFnd	0.78	*		404	468	7.99	
PCB-154	1.42e+05	1.30	y	37:07	0.85	107		-	-	*	
13C-PCB-155	1.57e+07	1.26	y	34:08	0.84	8940					89.4
13C-PCB-111	2.18e+07	1.58	y	36:15	1.16	8920					89.2
13C-PCB-101	2.10e+07	1.61	y	34:35	-	46.2					
PCB-84	1.09e+07	1.57	y	34:15	0.68	6840		-	-	*	Co-elute PCB 92
PCB-92	1.09e+07	1.57	y	34:15	0.68	6840		-	-	*	Co-elute PCB 84
PCB-89	3.27e+05	1.40	y	34:25	0.67	208		-	-	*	
PCB-90	1.87e+07	1.56	y	34:36	0.76	10500		-	-	*	Co-elute PCB 101
PCB-101	1.87e+07	1.56	y	34:36	0.76	10500		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.85	*		954	609	10.6	
PCB-99	8.70e+06	1.55	y	34:55	0.85	4390		-	-	*	
PCB-119	7.85e+05	1.44	y	35:22	0.96	350		-	-	*	
PCB-83	1.21e+06	1.49	y	35:30	0.78	662		-	-	*	Co-elute PCB 112
PCB-112	1.21e+06	1.49	y	35:30	0.78	662		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.92	*		954	609	9.76	
PCB-97	4.57e+06	1.53	y	35:51	0.82	2390		-	-	*	
PCB-86	*	*	n	NotFnd	0.66	*		954	609	13.6	
PCB-125	7.97e+06	1.56	y	36:07	0.85	4000		-	-	*	Co-elute PCB 87/117
PCB-87	7.97e+06	1.56	y	36:07	0.85	4000		-	-	*	Co-elute PCB 125/117
PCB-117	7.97e+06	1.56	y	36:07	0.85	4000		-	-	*	Co-elute PCB 125/87
PCB-111	3.40e+05	1.58	y	36:16	1.13	128		-	-	*	Co-elute PCB 115
PCB-115	3.40e+05	1.58	y	36:16	1.13	128		-	-	*	Co-elute PCB 111
PCB-85	2.70e+06	1.54	y	36:22	0.79	1460		-	-	*	Co-elute PCB 116
PCB-116	2.70e+06	1.54	y	36:22	0.79	1460		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.93	*		954	609	9.68	
PCB-110	2.56e+07	1.58	y	36:45	1.07	10200		-	-	*	
PCB-82	1.35e+06	1.48	y	37:20	0.55	1050		-	-	*	
PCB-124	4.30e+05	1.49	y	38:02	1.03	179		-	-	*	
PCB-108	9.20e+05	1.49	y	38:10	1.17	337		-	-	*	Co-elute PCB 107
PCB-107	9.20e+05	1.49	y	38:10	1.17	337		-	-	*	Co-elute PCB 108
PCB-123	2.24e+05	1.62	y	38:18	1.34	79.1		-	-	*	
13C-PCB-123	2.12e+07	1.56	y	38:17	1.34	7960					79.6
PCB-118	1.05e+07	1.49	y	38:30	1.08	3820		-	-	*	Co-elute PCB 106
PCB-106	1.05e+07	1.49	y	38:30	1.08	3820		-	-	*	Co-elute PCB 118
13C-PCB-118	2.55e+07	1.60	y	38:28	1.45	8840					88.4
PCB-114	2.32e+05	1.54	y	39:06	1.10	88.9		-	-	*	
13C-PCB-114	2.37e+07	1.60	y	39:04	1.36	8750					87.5
PCB-122	1.57e+05	1.54	y	39:14	1.25	53.7		-	-	*	
PCB-105	3.29e+06	1.46	y	39:55	1.16	1220		-	-	*	
13C-PCB-105	2.32e+07	1.55	y	39:54	1.38	8450					84.5

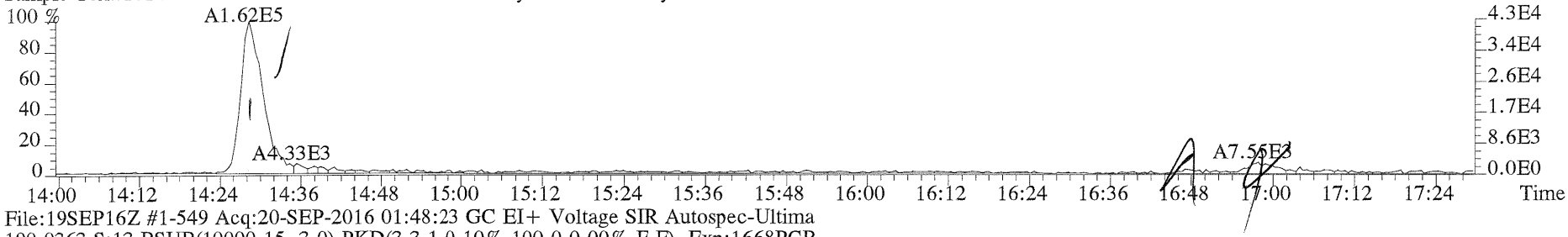
PCB-127	*	*	n	NotFnd	1.07	*		644	784	7.67		
PCB-126	*	*	n	NotFnd	1.17	*		644	784	10.2		
13C-PCB-126	2.21e+07	1.55	y	42:06	1.27	8780					87.8	
PCB-151	2.24e+06	1.27	y	37:44	0.89	1180		-	-	*		
PCB-135	1.64e+06	1.28	y	37:55	0.81	951		-	-	*		
PCB-144	4.35e+05	1.37	y	38:02	1.04	196		-	-	*		
PCB-147	3.03e+05	1.12	y	38:10	0.96	147		-	-	*		
PCB-139	8.69e+06	1.30	y	38:23	0.98	4150		-	-	*	Co-elute PCB 149	
PCB-149	8.69e+06	1.30	y	38:23	0.98	4150		-	-	*	Co-elute PCB 139	
PCB-140	1.41e+05	1.27	y	38:35	0.96	68.6		-	-	*		
PCB-143	7.25e+05	1.24	y	39:01	0.89	381		-	-	*	Co-elute PCB 134	
PCB-134	7.25e+05	1.24	y	39:01	0.89	381		-	-	*	Co-elute PCB 143	
PCB-131	3.10e+05	1.40	y	39:16	0.91	159		-	-	*	Co-elute PCB 133	
PCB-133	3.10e+05	1.40	y	39:16	0.91	159		-	-	*	Co-elute PCB 131	
PCB-142	4.44e+06	1.28	y	39:26	0.79	2630		-	-	*		
PCB-165	1.34e+06	1.22	y	39:39	1.07	583		-	-	*	Co-elute PCB 146	
PCB-146	1.34e+06	1.22	y	39:39	1.07	583		-	-	*	Co-elute PCB 165	
PCB-161	3.48e+06	1.25	y	39:54	1.01	1610		-	-	*	Co-elute PCB 132	
PCB-132	3.48e+06	1.25	y	39:54	1.01	1610		-	-	*	Co-elute PCB 161	
PCB-153	7.79e+06	1.27	y	40:02	1.05	3490		-	-	*		
PCB-168	*	*	n	NotFnd	1.18	*		980	810	9.67		
PCB-141	1.35e+06	1.24	y	40:45	0.89	716		-	-	*		
PCB-137	4.61e+05	1.17	y	41:06	0.85	254		-	-	*		
PCB-130	5.34e+05	1.29	y	41:11	0.79	316		-	-	*		
PCB-138	8.96e+06	1.28	y	41:33	1.19	3540		-	-	*	Co-elute PCB 163/164	
PCB-163	8.96e+06	1.28	y	41:33	1.19	3540		-	-	*	Co-elute PCB 138/164	
PCB-164	8.96e+06	1.28	y	41:33	1.19	3540		-	-	*	Co-elute PCB 138/163	
PCB-158	1.27e+06	1.25	y	41:46	1.18	505		-	-	*	Co-elute PCB 160	
PCB-160	1.27e+06	1.25	y	41:46	1.18	505		-	-	*	Co-elute PCB 158	
PCB-129	3.86e+05	1.27	y	42:01	0.73	247		-	-	*		
PCB-166	4.35e+04	1.28	y	42:29	1.11	18.4	J	-	-	*		
PCB-159	4.64e+04	1.25	y	42:47	1.20	18.1	J	-	-	*		
PCB-128	1.35e+06	1.27	y	43:01	1.00	635		-	-	*	Co-elute PCB 162	
PCB-162	1.35e+06	1.27	y	43:01	1.00	635		-	-	*	Co-elute PCB 128	
PCB-167	2.93e+05	1.22	y	43:25	1.06	126		-	-	*		
13C-PCB-167	2.19e+07	1.26	y	43:25	1.15	9610					96.1	
PCB-156	6.10e+05	1.27	y	44:39	1.12	264		-	-	*		
13C-PCB-156	2.06e+07	1.26	y	44:39	1.10	9410					94.1	
PCB-157	1.61e+05	1.10	y	44:55	1.13	65.0		-	-	*		
13C-PCB-157	2.19e+07	1.27	y	44:53	1.13	9760					97.6	
PCB-169	*	*	n	NotFnd	1.07	*		980	810	10.3		
13C-PCB-169	2.10e+07	1.28	y	46:49	1.05	10000					100	

FAL ID: 10146-009-0001-SA Filename: 19SEP16Z Sam:13 Acquired: 20-SEP-16 01:48:23 ICal: DAILY209FAL4-9-19-16
Client ID: LDW-BA-IN-ENR+AC-CC-S010 ConCal: ST091916Z1 EndCal: ST091916Z2
Results: 10146 GC Column: DB1 Amount: 1.000

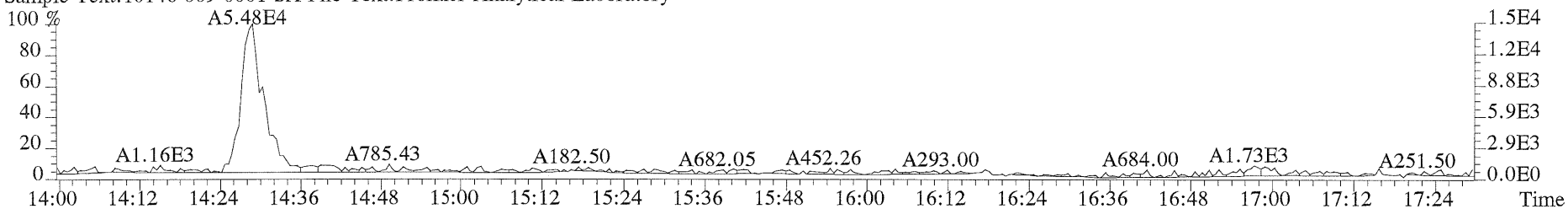
PCB-188	*	*	n	NotFnd	1.25	*		460	372	4.48	
13C-PCB-188	1.71e+07	1.09	y	39:37	0.94	9170					91.7
PCB-184	9.03e+06	1.07	y	40:05	1.39	4010		-	-	*	
PCB-179	5.76e+05	1.02	y	40:50	1.31	273		-	-	*	
PCB-176	1.55e+05	0.96	y	41:16	1.28	75.3		-	-	*	
PCB-186	*	*	n	NotFnd	1.28	*		460	372	4.32	
PCB-178	1.82e+05	1.01	y	42:19	0.89	127		-	-	*	
PCB-175	3.70e+04	1.05	y	42:37	0.93	24.6		-	-	*	
PCB-187	9.39e+05	1.12	y	42:47	1.02	573		-	-	*	Co-elute PCB 182
PCB-182	9.39e+05	1.12	y	42:47	1.02	573		-	-	*	Co-elute PCB 187
PCB-183	4.22e+05	1.04	y	43:06	1.02	256		-	-	*	
PCB-185	7.82e+04	1.08	y	43:44	0.91	53.0		-	-	*	
PCB-174	6.72e+05	1.06	y	44:04	0.94	443		-	-	*	
PCB-181	*	*	n	NotFnd	0.87	*		460	372	6.32	
PCB-177	4.08e+05	1.03	y	44:20	0.80	316		-	-	*	
PCB-171	1.92e+05	1.04	y	44:37	0.89	134		-	-	*	
PCB-173	*	*	n	NotFnd	0.79	*		460	372	6.97	
PCB-172	2.09e+05	1.21	y	45:25	0.80	162		-	-	*	
PCB-192	5.34e+06	1.04	y	45:36	1.09	3040		-	-	*	
PCB-180	1.16e+06	1.02	y	45:48	1.06	672		-	-	*	
PCB-193	1.02e+05	1.09	y	45:58	1.16	54.4		-	-	*	
PCB-191	3.74e+04	1.03	y	46:11	1.11	20.9		-	-	*	
PCB-170	4.28e+05	1.01	y	47:07	0.77	345		-	-	*	
PCB-190	1.29e+05	1.15	y	47:17	1.07	75.1		-	-	*	
PCB-189	2.61e+04	1.05	y	48:31	1.23	14.0	J	-	-	*	
13C-PCB-189	1.52e+07	1.07	y	48:29	0.70	10900					109
PCB-202	4.12e+04	0.87	y	44:47	1.05	36.7		-	-	*	
PCB-201	2.14e+04	0.88	y	45:15	1.05	18.9	J	-	-	*	
PCB-204	6.88e+06	0.91	y	45:23	1.05	6110		-	-	*	
PCB-197	7.27e+04	0.95	y	45:38	1.09	62.4		-	-	*	
PCB-200	1.93e+04	0.83	y	46:26	1.01	17.8	J	-	-	*	
PCB-198	*	*	n	NotFnd	0.70	*		324	392	10.9	
PCB-199	9.52e+04	0.94	y	47:43	0.70	127		-	-	*	
PCB-203	9.69e+04	0.96	y	47:58	0.78	116		-	-	*	Co-elute PCB 196
PCB-196	9.69e+04	0.96	y	47:58	0.78	116		-	-	*	Co-elute PCB 203
13C-PCB-202	1.07e+07	0.92	y	44:45	0.57	9520					95.2
13C-PCB-178	1.20e+07	1.09	y	42:17	0.60	10100					101
13C-PCB-138	1.99e+07	1.26	y	41:31	-	45.6					
PCB-195	5.13e+04	0.91	y	49:06	0.74	36.6		-	-	*	
PCB-194	1.10e+05	0.90	y	49:56	0.82	70.2		-	-	*	
PCB-205	*	*	n	NotFnd	1.07	*		620	640	5.76	
13C-PCB-205	1.90e+07	0.91	y	50:13	1.27	9370					93.7
PCB-208	*	*	n	NotFnd	1.03	*		976	932	8.69	
13C-PCB-208	1.66e+07	0.78	y	49:12	1.14	9090					90.9
PCB-207	5.36e+04	1.43	y	49:31	1.15	32.7		-	-	*	
PCB-206	3.24e+04	1.45	y	51:31	1.04	25.7		-	-	*	
13C-PCB-206	1.21e+07	0.80	y	51:30	0.75	10000					100
PCB-209	5.09e+04	1.11	y	52:47	1.16	29.7		-	-	*	
13C-PCB-209	1.48e+07	1.21	y	52:47	0.93	10000					100
13C-PCB-194	1.60e+07	0.90	y	49:56	-	42.9					

Analyst: [illegible] Date: 9/21/16

File:19SEP16Z #1-549 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-549 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-549 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
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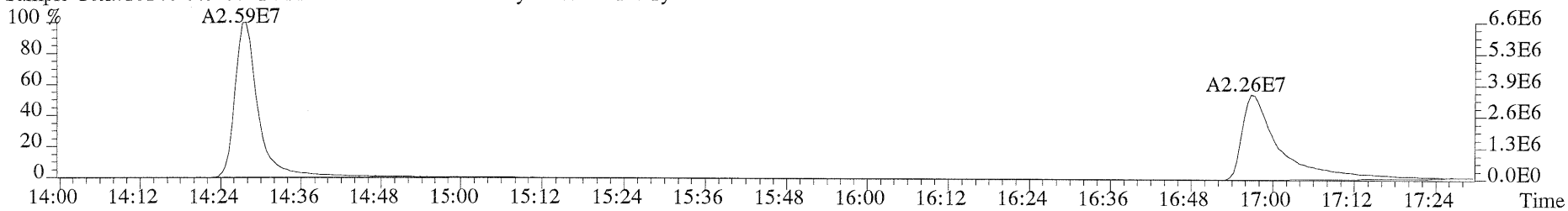
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-549 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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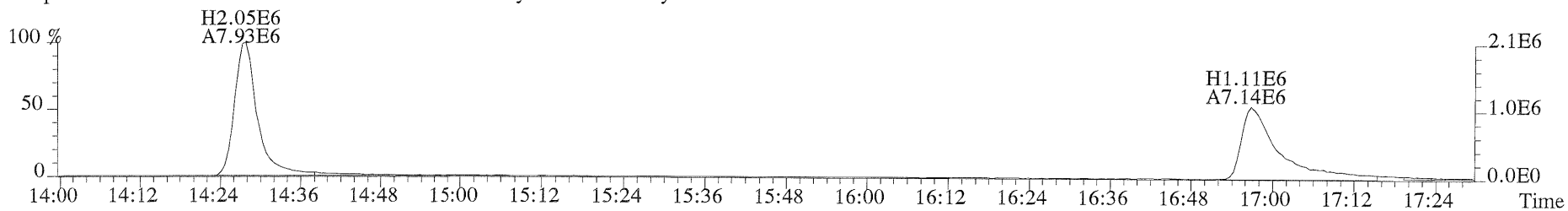
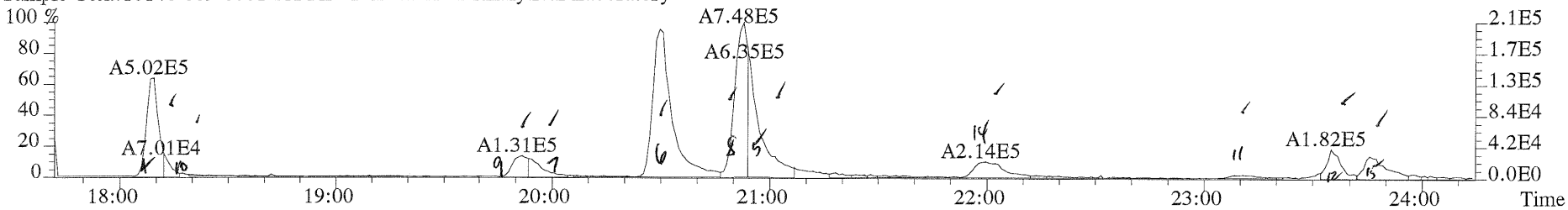
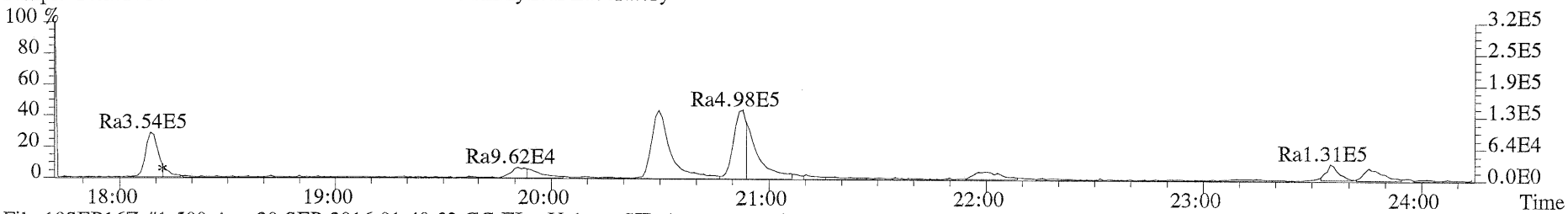


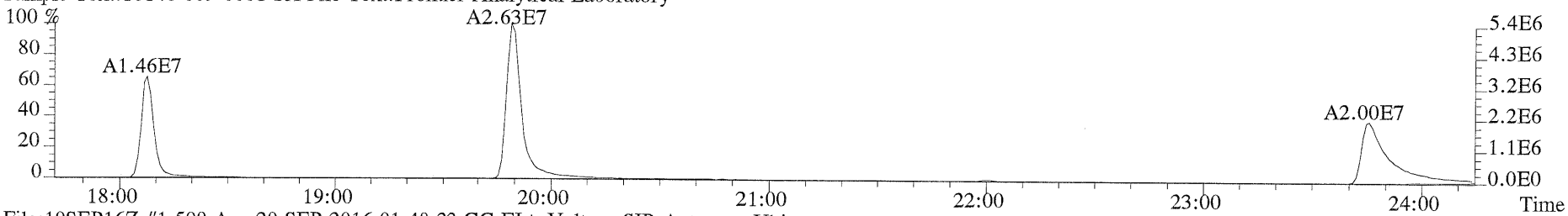
File:19SEP16Z #1-509 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



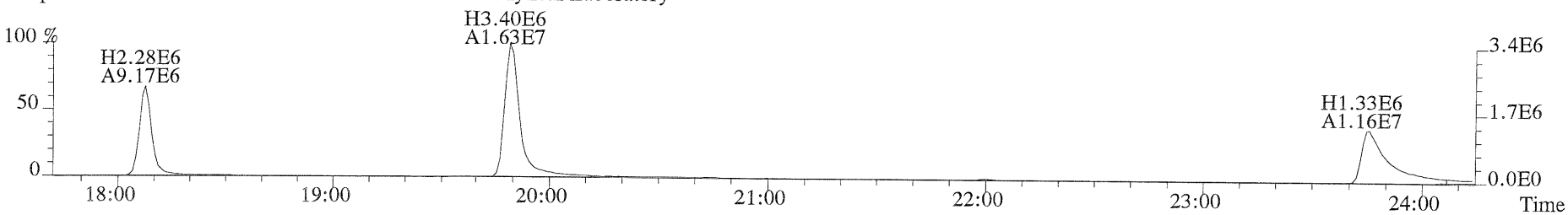
File:19SEP16Z #1-509 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



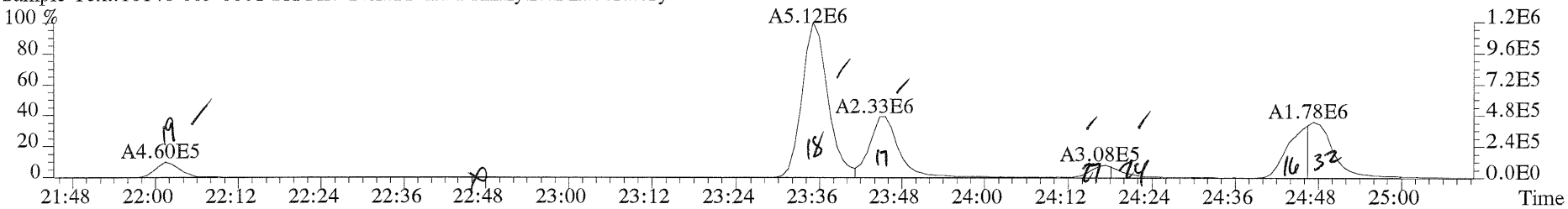
File:19SEP16Z #1-509 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



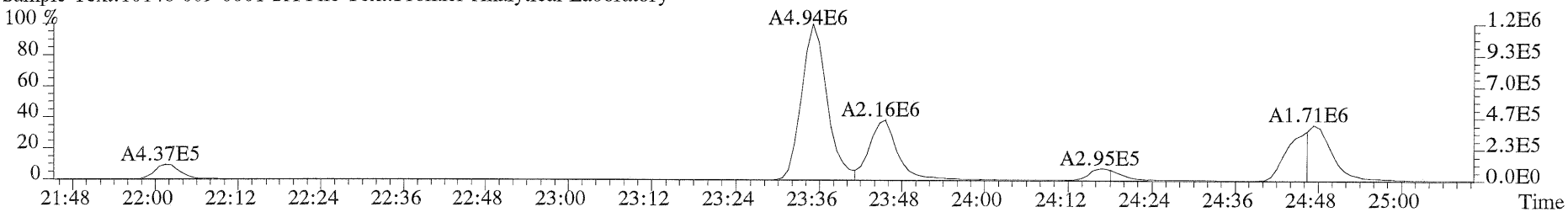
File:19SEP16Z #1-509 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



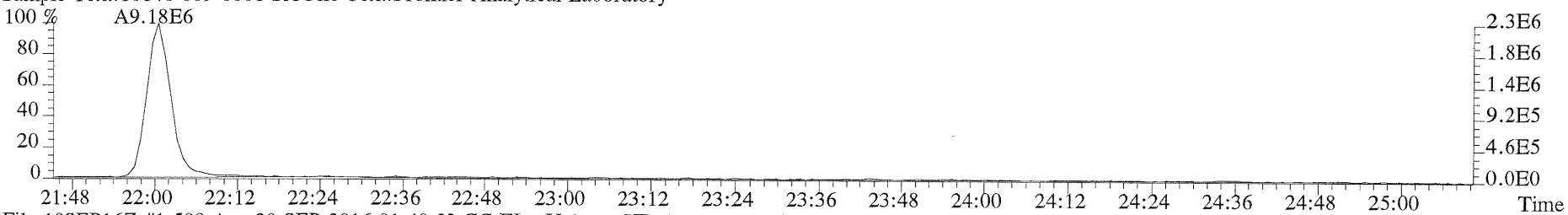
File:19SEP16Z #1-509 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



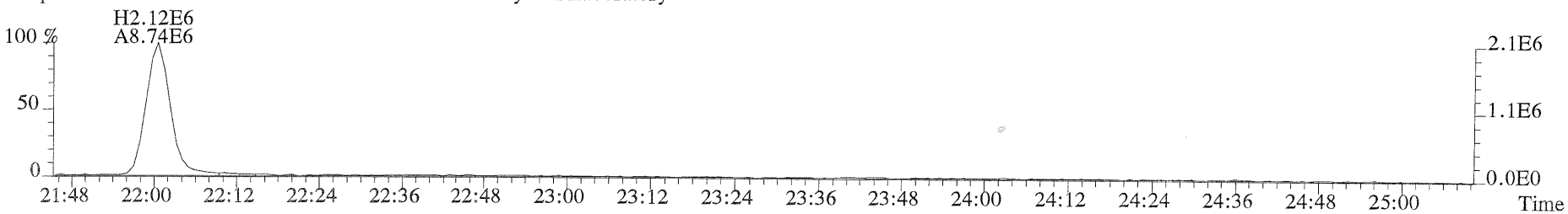
File:19SEP16Z #1-509 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-509 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-509 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



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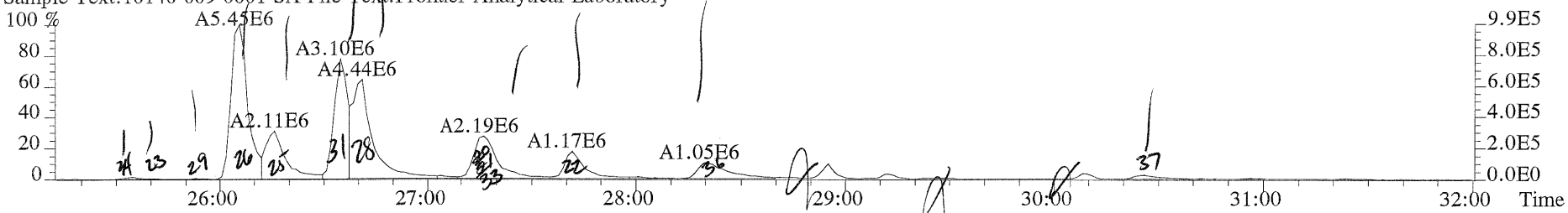
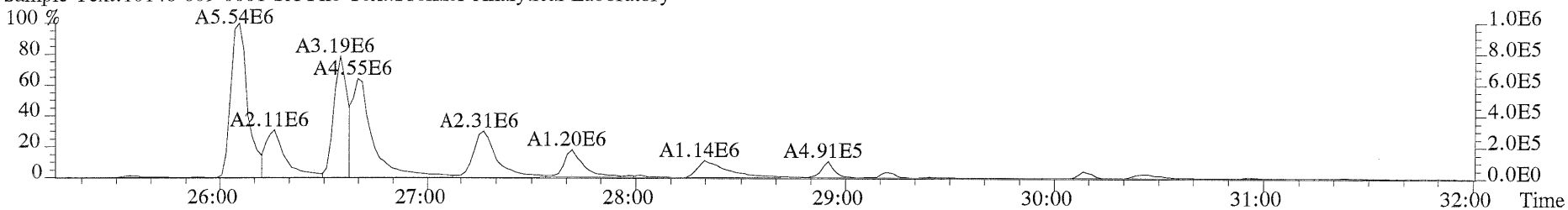
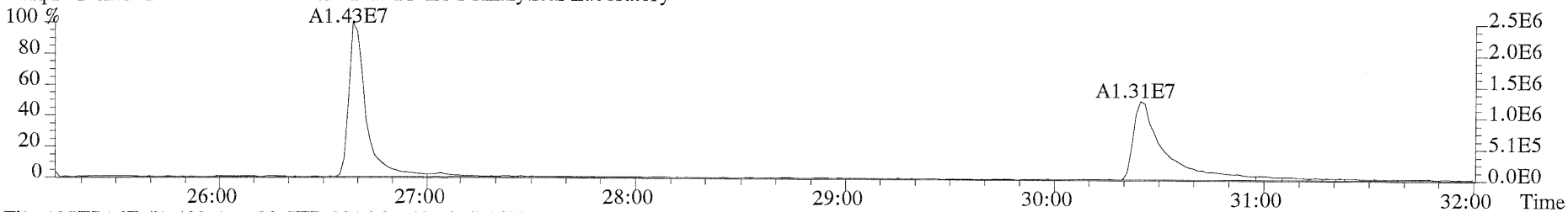
255.9613 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-403 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-403 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



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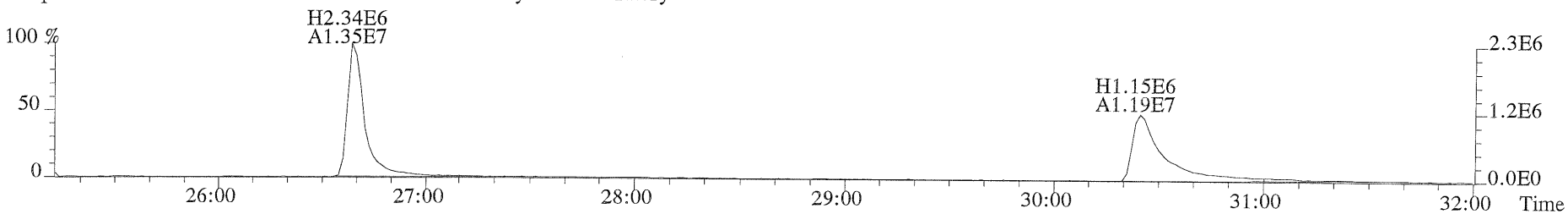
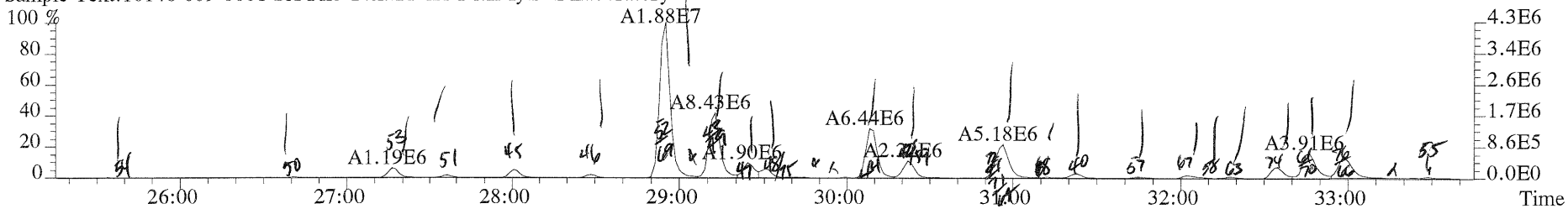
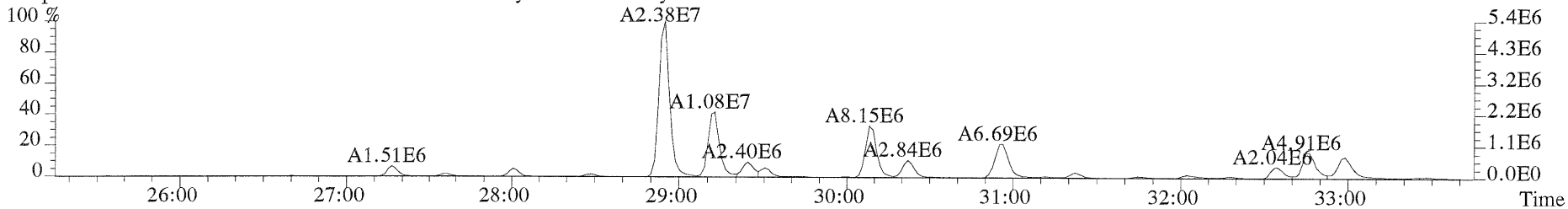
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



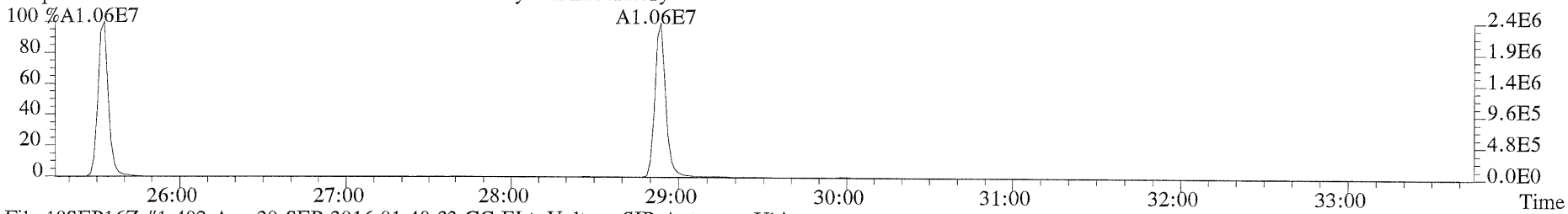
File:19SEP16Z #1-403 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



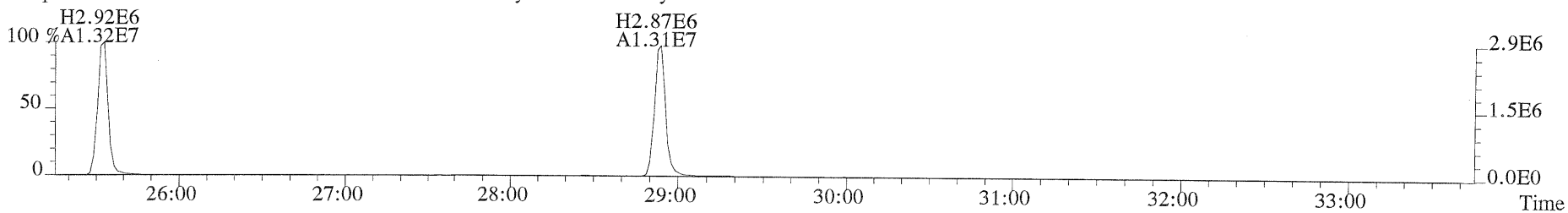
File:19SEP16Z #1-403 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



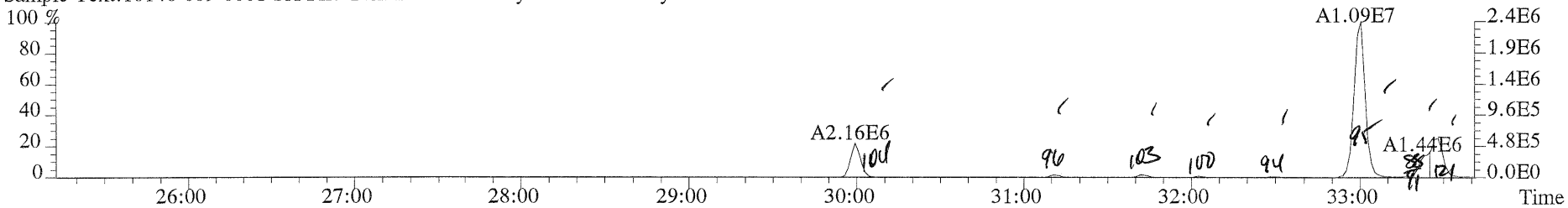
File:19SEP16Z #1-403 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



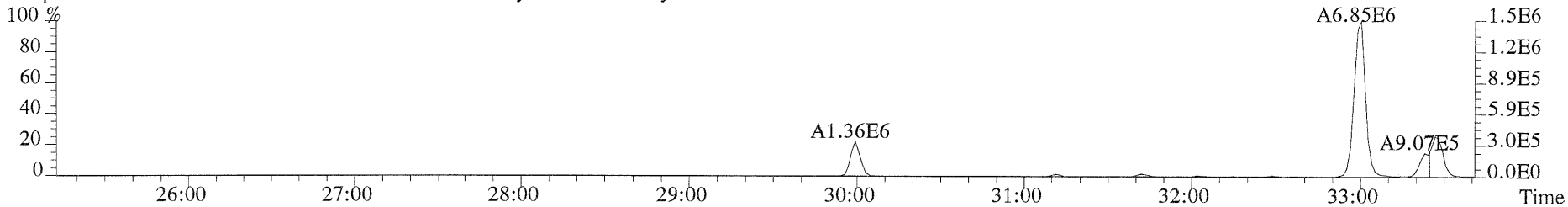
File:19SEP16Z #1-403 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



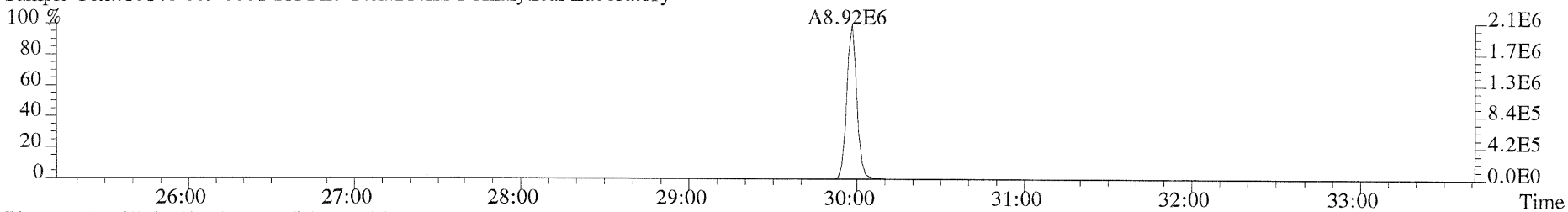
File:19SEP16Z #1-403 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



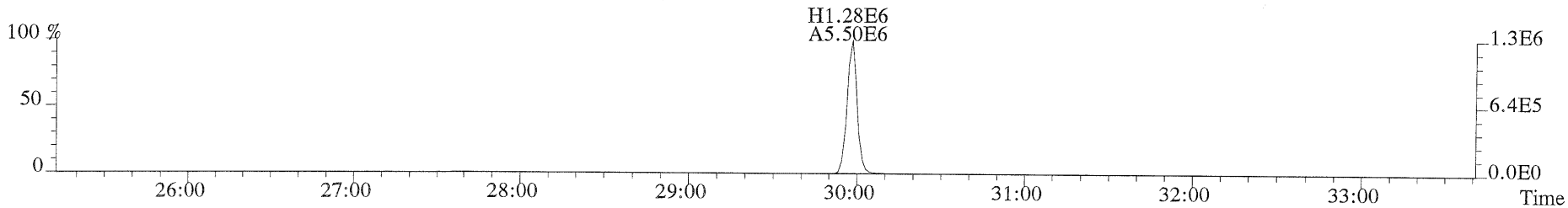
File:19SEP16Z #1-403 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



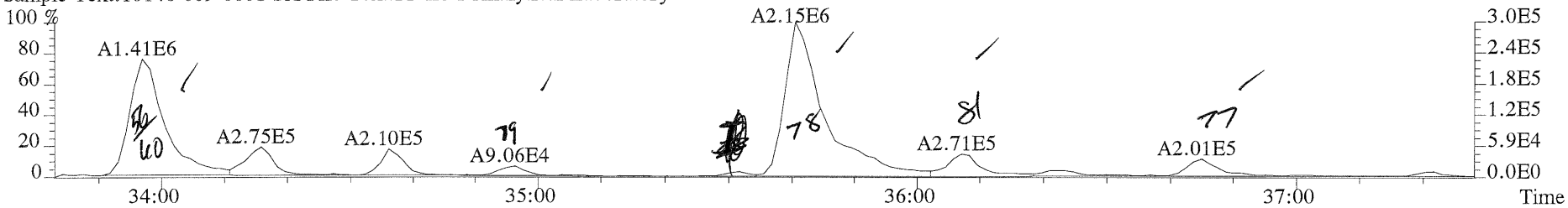
File:19SEP16Z #1-403 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



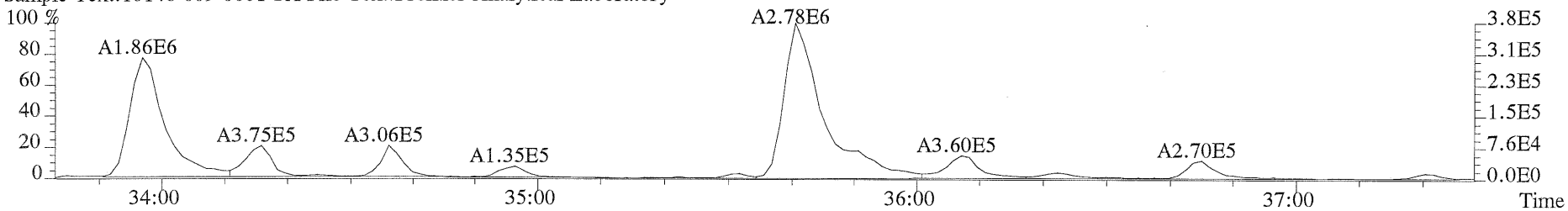
File:19SEP16Z #1-403 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



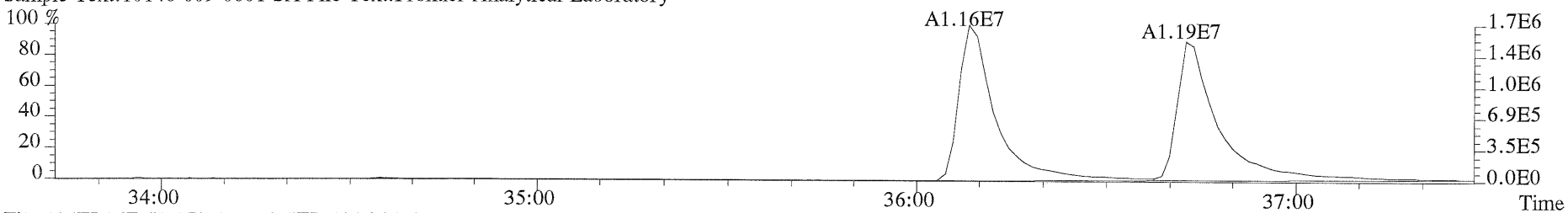
File:19SEP16Z #1-179 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



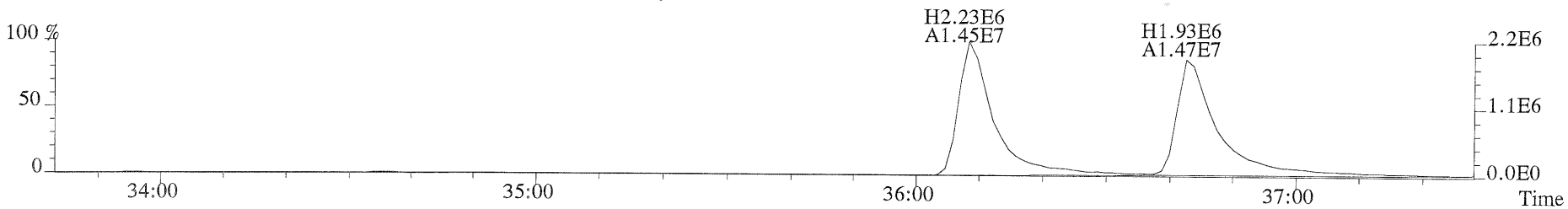
File:19SEP16Z #1-179 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



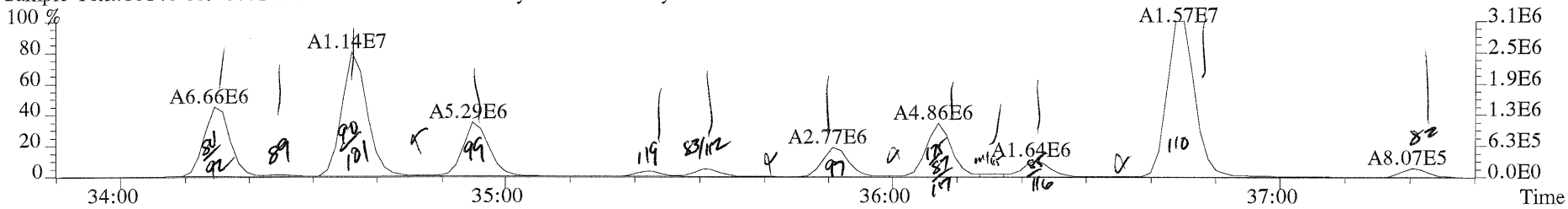
File:19SEP16Z #1-179 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



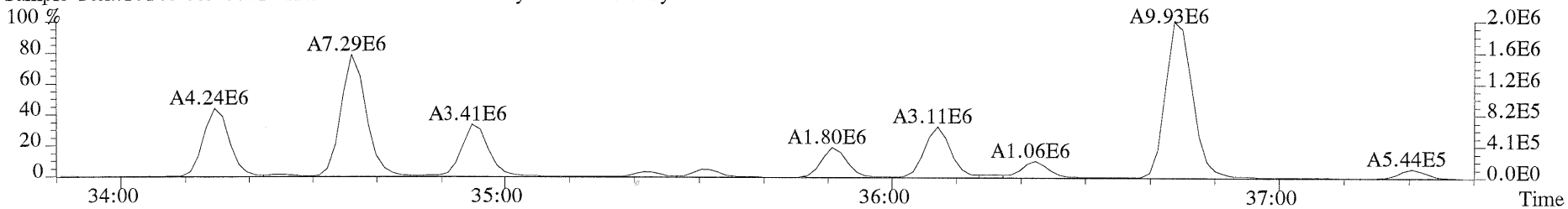
File:19SEP16Z #1-179 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



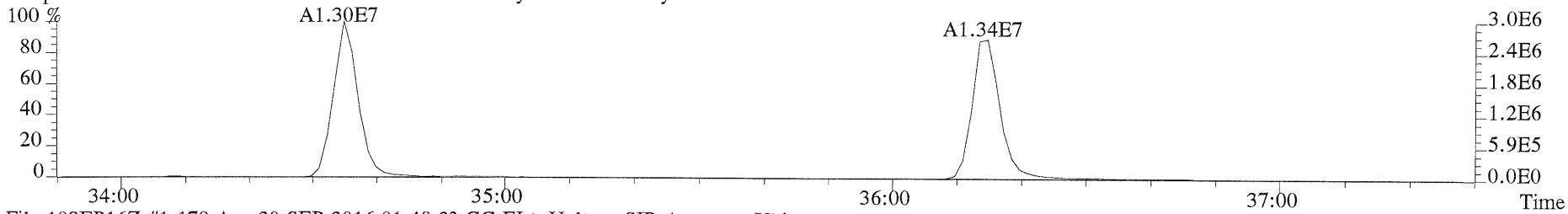
File:19SEP16Z #1-179 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



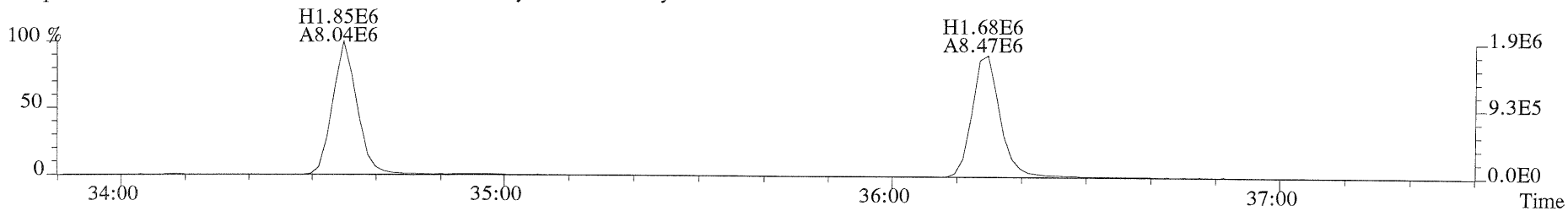
File:19SEP16Z #1-179 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



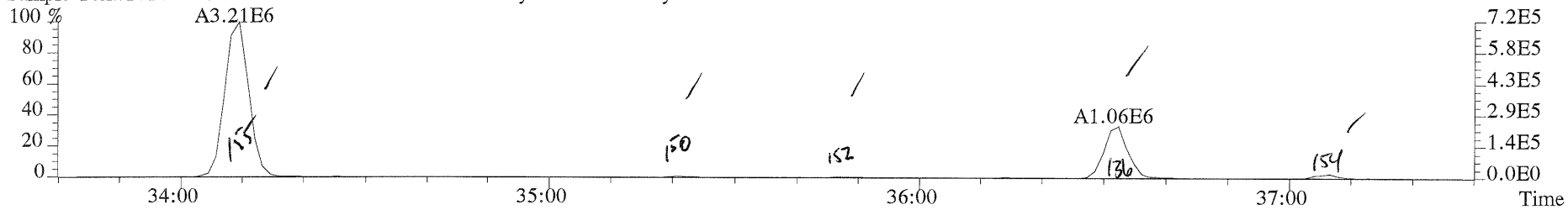
File:19SEP16Z #1-179 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



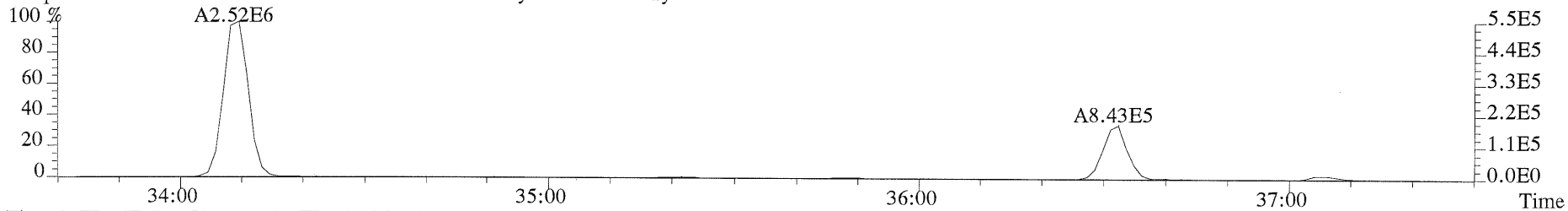
File:19SEP16Z #1-179 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



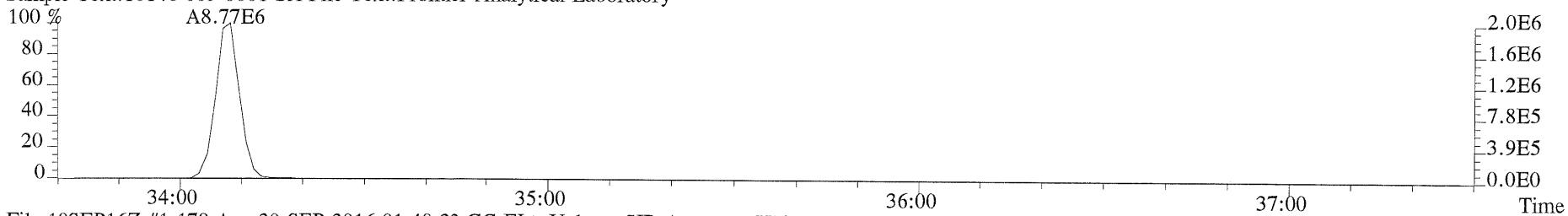
File:19SEP16Z #1-179 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



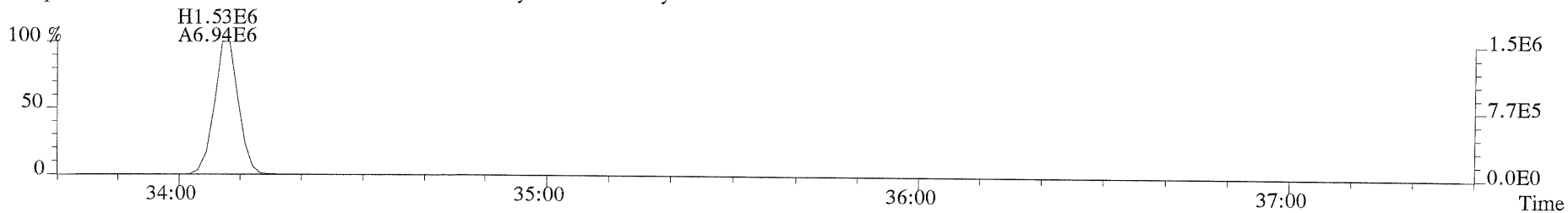
File:19SEP16Z #1-179 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



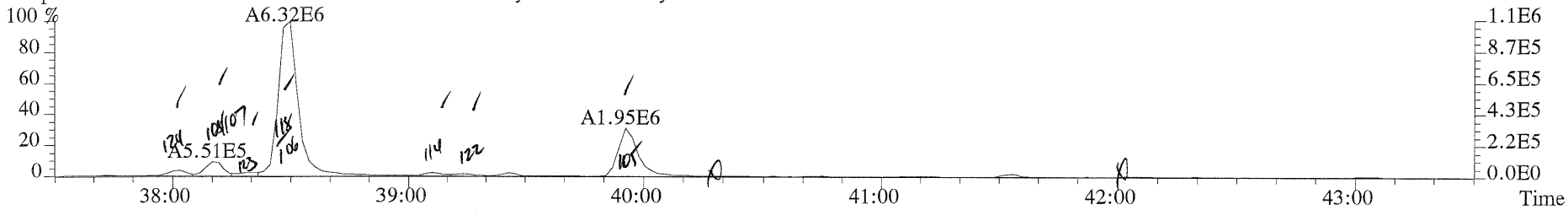
File:19SEP16Z #1-179 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



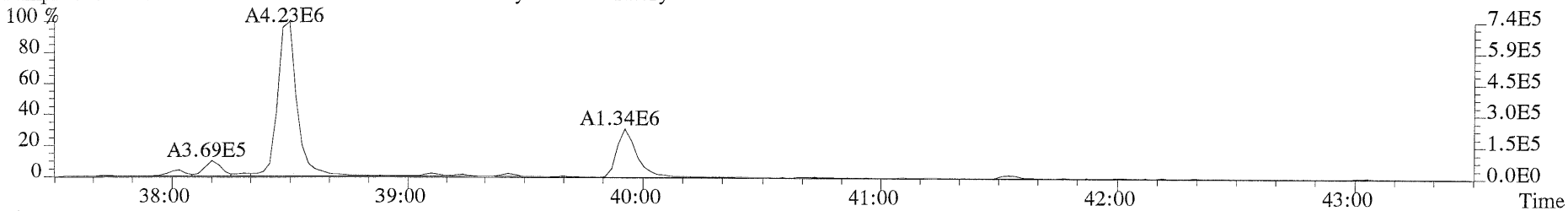
File:19SEP16Z #1-179 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



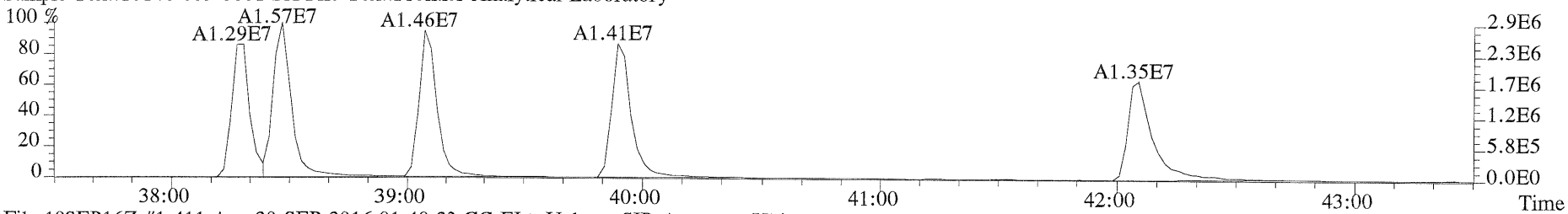
File:19SEP16Z #1-411 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



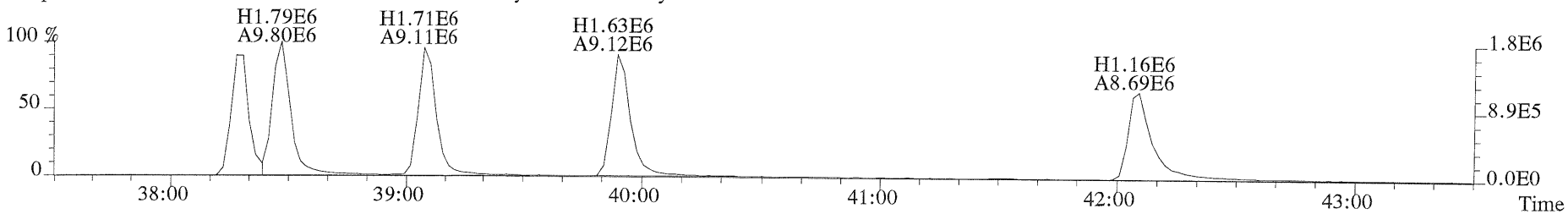
File:19SEP16Z #1-411 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



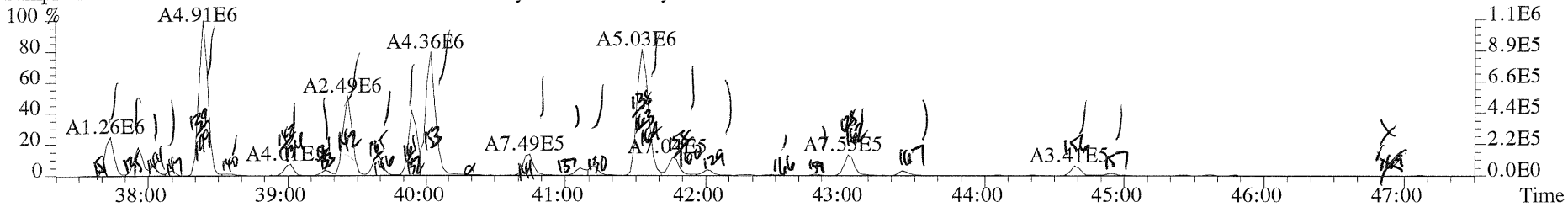
File:19SEP16Z #1-411 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



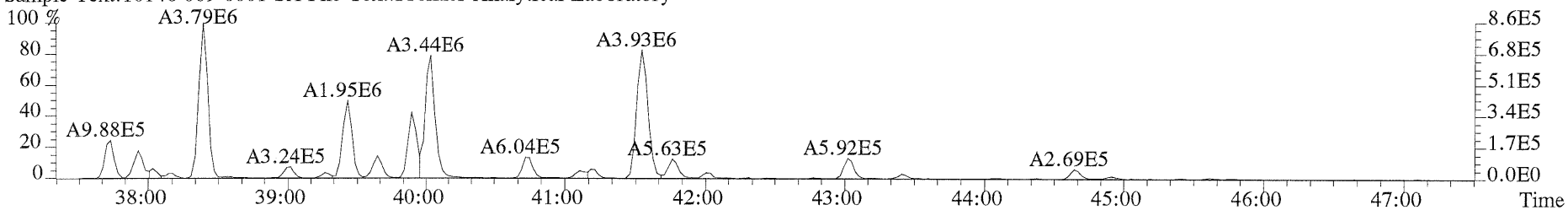
File:19SEP16Z #1-411 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



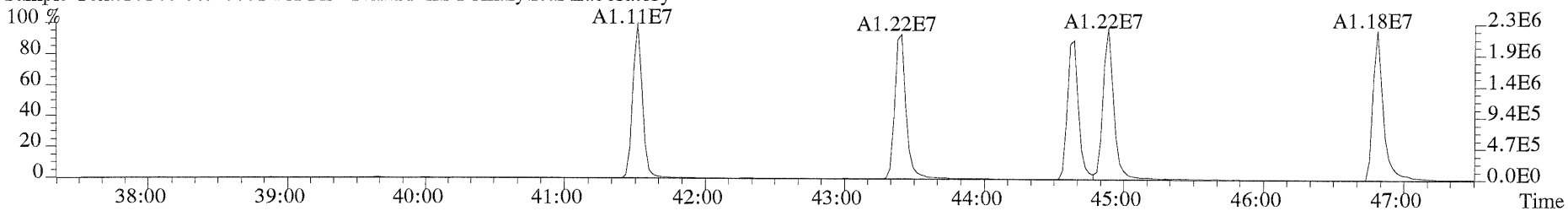
File:19SEP16Z #1-411 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



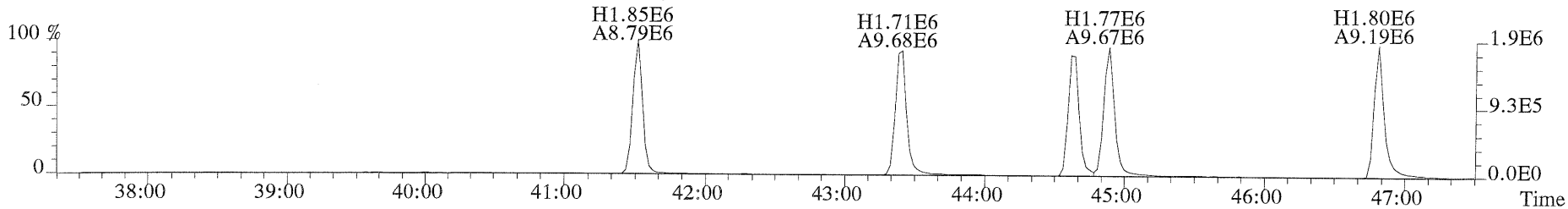
File:19SEP16Z #1-411 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



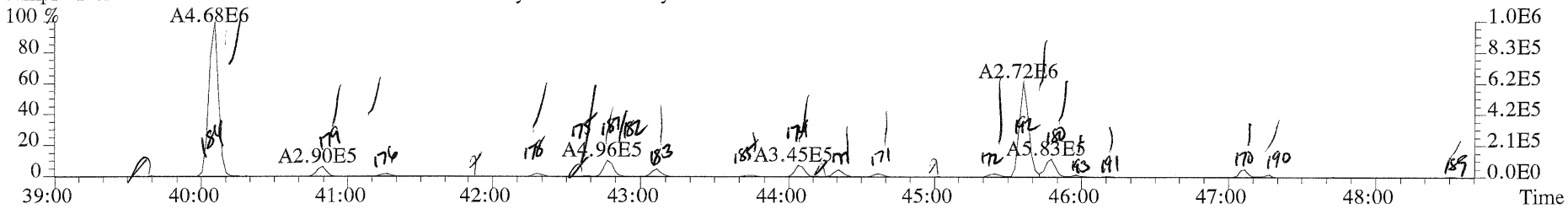
File:19SEP16Z #1-411 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



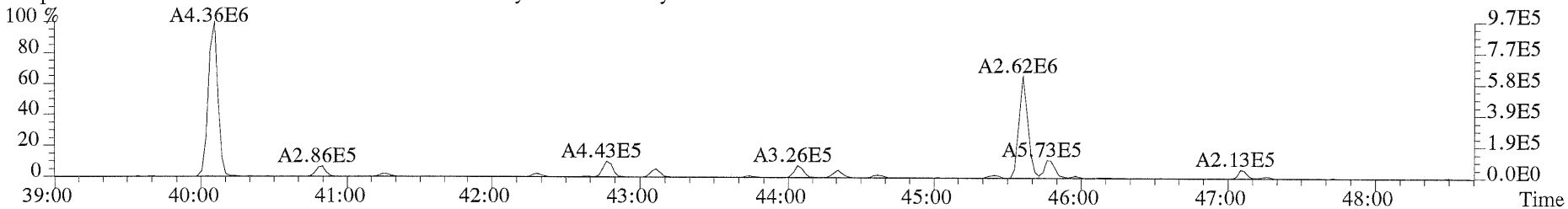
File:19SEP16Z #1-411 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



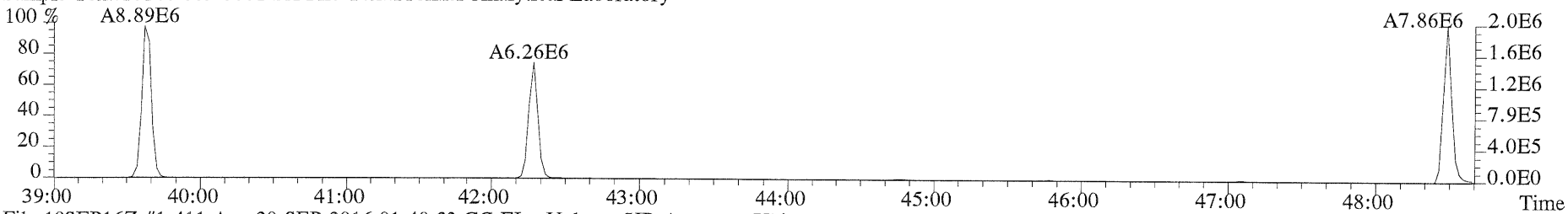
File:19SEP16Z #1-411 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



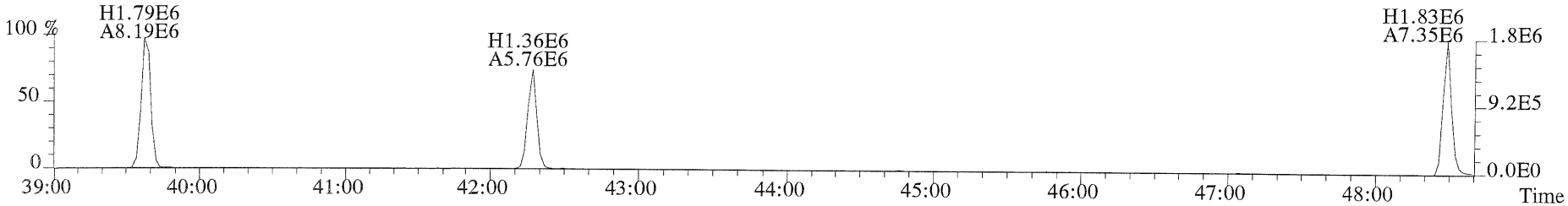
File:19SEP16Z #1-411 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



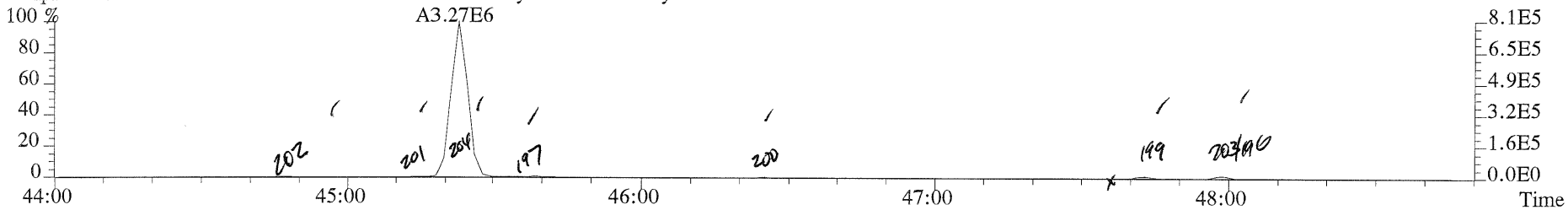
File:19SEP16Z #1-411 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



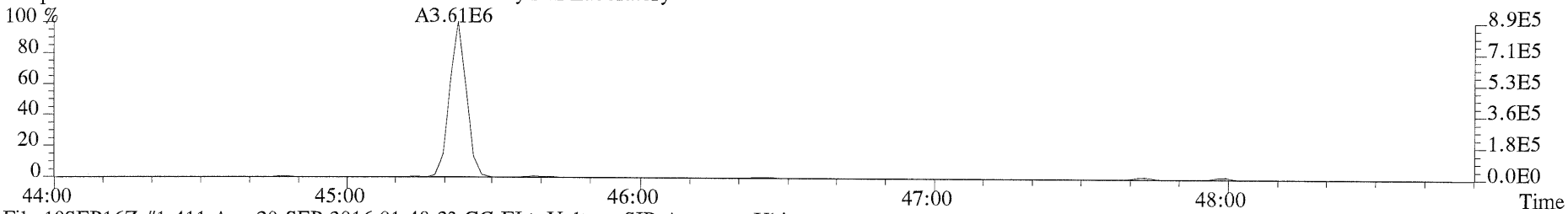
File:19SEP16Z #1-411 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



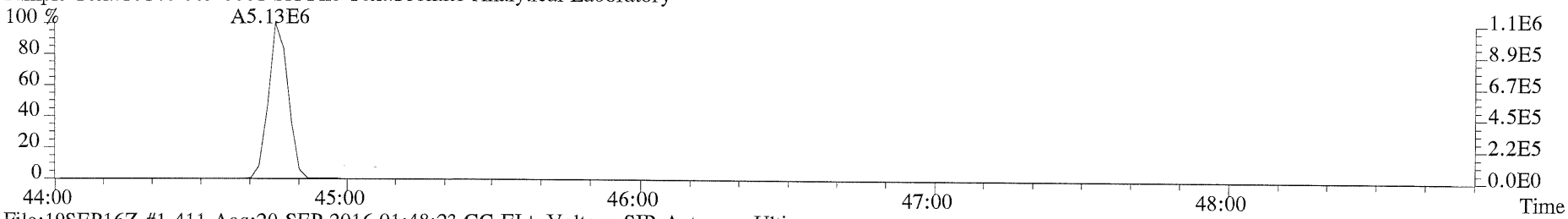
File:19SEP16Z #1-411 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



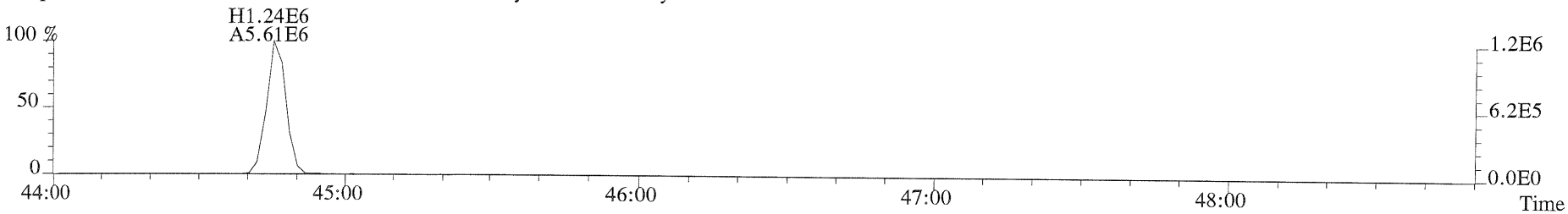
File:19SEP16Z #1-411 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



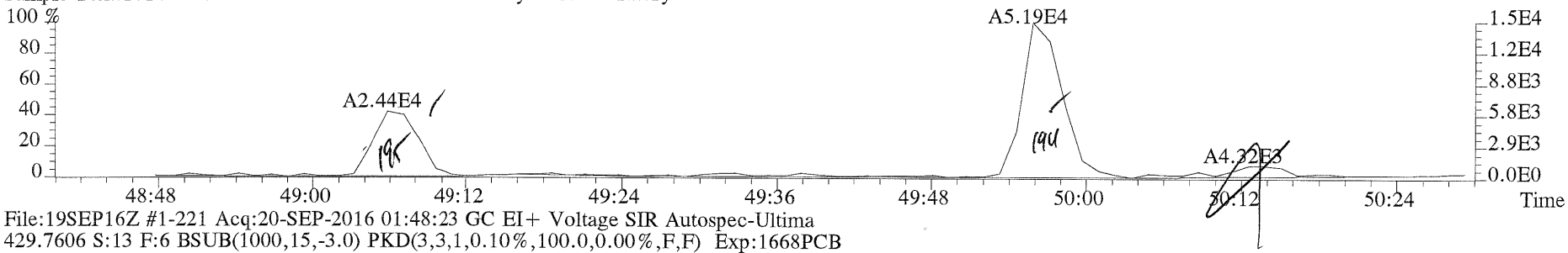
File:19SEP16Z #1-411 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



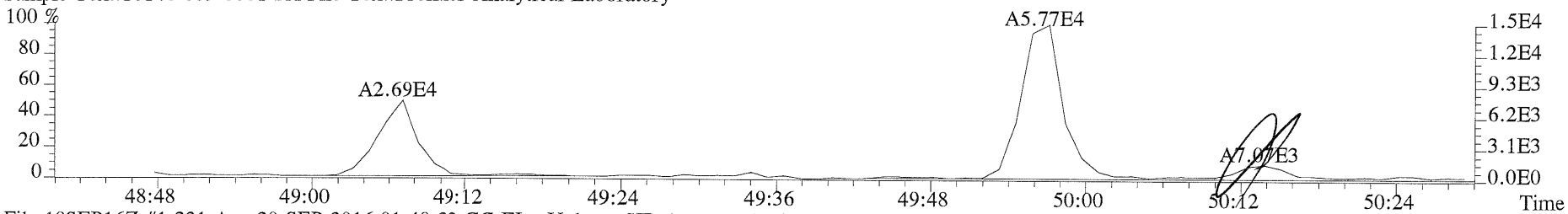
File:19SEP16Z #1-411 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



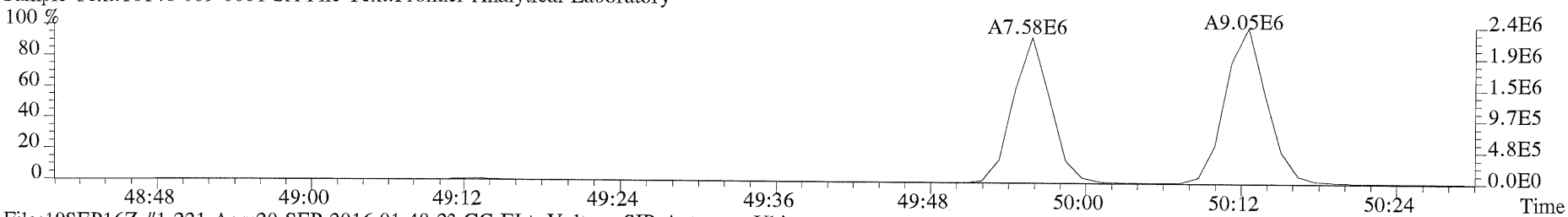
File:19SEP16Z #1-221 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



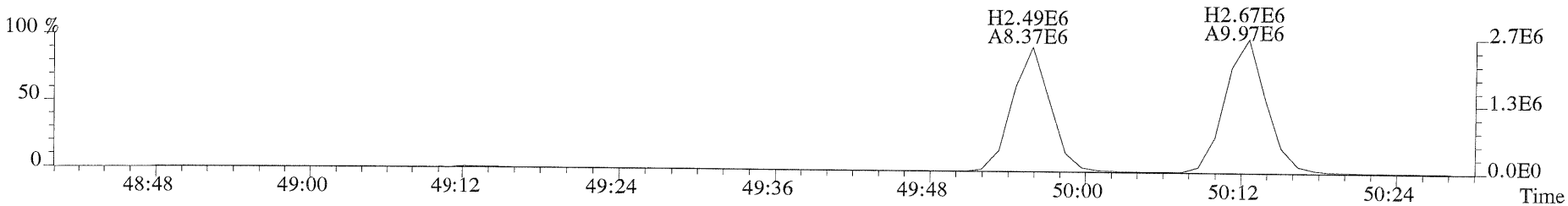
File:19SEP16Z #1-221 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



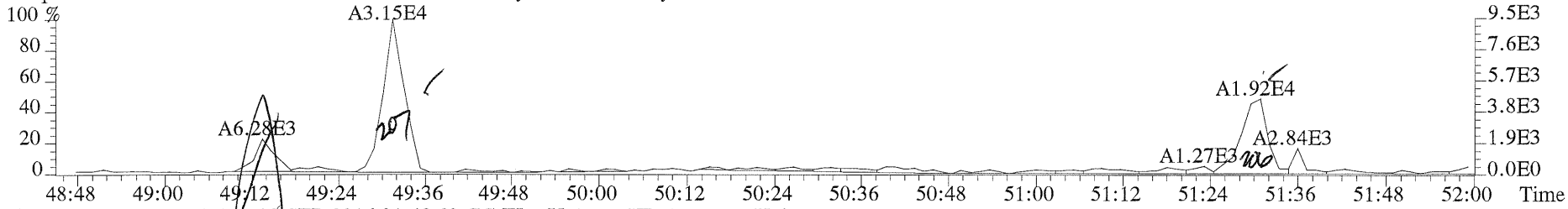
File:19SEP16Z #1-221 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



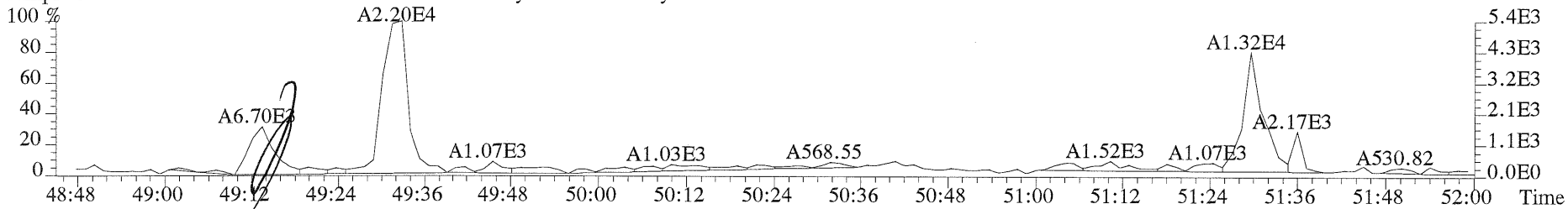
File:19SEP16Z #1-221 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



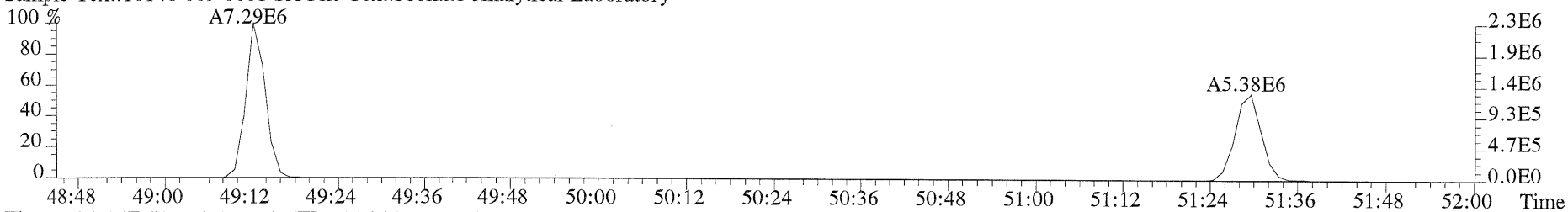
File:19SEP16Z #1-221 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



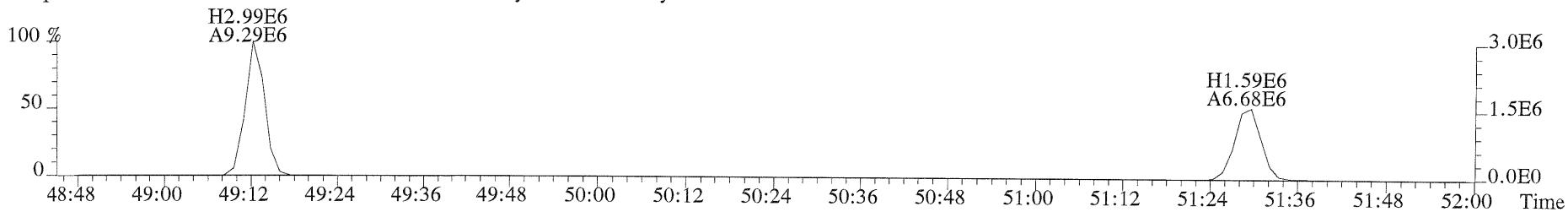
File:19SEP16Z #1-221 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



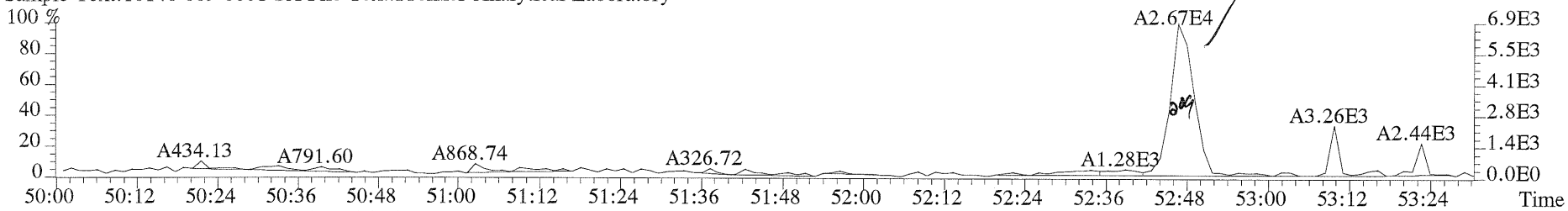
File:19SEP16Z #1-221 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



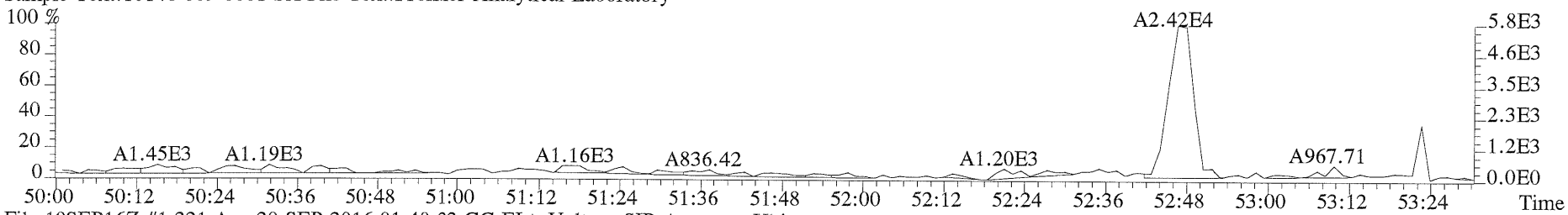
File:19SEP16Z #1-221 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



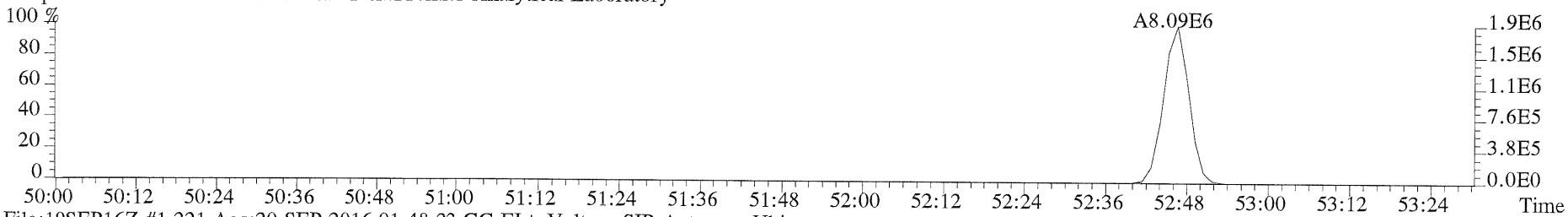
File:19SEP16Z #1-221 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



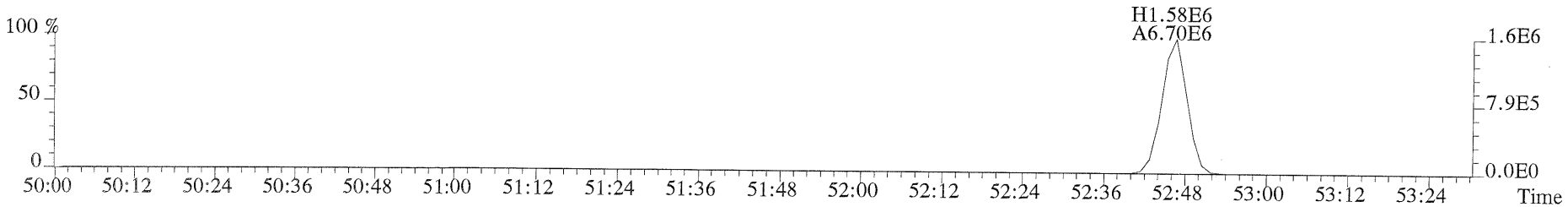
File:19SEP16Z #1-221 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:13 F:6 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:20-SEP-2016 01:48:23 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-009-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10146-010-0001-SA Filename: 19SEP16Z Sam:17 Acquired: 20-SEP-16 05:34:10 ICal: DAILY209FAL4-9-19-16
Client ID: LDW-BA-IN-ENR-CA-S010 ConCal: ST091916Z2 EndCal: ST091916Z3
Results: 10146 GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	
PCB-1	4.64e+05	3.02 y	14:29	1.12	173		-	-	*		
13C-PCB-1	2.40e+07	3.24 y	14:28	0.94	8870					88.7	
PCB-2	*	* n	NotFnd	0.91	*		732	536	9.04		
PCB-3	2.77e+04	3.45 y	16:59	1.28	11.0	J	-	-	*		
13C-PCB-3	1.96e+07	3.14 y	16:58	0.80	8470					84.7	
PCB-4	6.83e+05	1.51 y	18:09	1.14	344		-	-	*		
PCB-10	1.53e+05	1.55 y	18:12	1.32	60.0		-	-	*		
13C-PCB-4	1.75e+07	1.58 y	18:08	0.63	9660					96.6	
PCB-9	1.81e+05	1.47 y	19:52	1.35	69.1		-	-	*		
PCB-7	1.59e+05	1.65 y	19:54	1.51	54.6		-	-	*		
PCB-6	1.12e+06	1.47 y	20:31	1.47	395		-	-	*		
PCB-8	1.19e+06	1.47 y	20:53	1.28	481		-	-	*		
PCB-5	7.09e+05	1.57 y	20:56	1.55	237		-	-	*		
PCB-14	3.12e+05	1.56 y	22:01	1.38	117		-	-	*		
PCB-11	*	* n	NotFnd	1.14	*		710	1080	14.4		
PCB-13	*	* n	NotFnd	1.15	*		710	1080	14.3		
PCB-12	2.30e+05	1.38 y	23:35	1.29	92.1		-	-	*		
PCB-15	3.89e+05	1.65 y	23:48	1.33	139		-	-	*		
13C-PCB-15	2.11e+07	1.76 y	23:47	0.88	8330					83.3	
PCB-19	6.75e+05	1.00 y	22:02	1.22	413		-	-	*		
PCB-30	*	* n	NotFnd	1.71	*		612	404	4.28		
PCB-18	5.88e+06	1.06 y	23:35	1.12	3920		-	-	*		
PCB-17	2.85e+06	1.05 y	23:46	1.29	1650		-	-	*		
PCB-27	4.44e+05	1.02 y	24:18	1.63	204		-	-	*		
PCB-24	4.44e+05	1.02 y	24:18	1.69	197		-	-	*		
PCB-16	1.76e+06	1.06 y	24:47	1.28	1030		-	-	*		
PCB-32	2.20e+06	1.08 y	24:49	1.55	1060		-	-	*		
13C-PCB-19	1.34e+07	1.06 y	22:01	0.47	9800					98.0	
13C-PCB-9	2.89e+07	1.58 y	19:49	-	29.5						
PCB-34	6.75e+04	1.13 y	25:36	0.98	43.5		-	-	*		
PCB-23	*	* n	NotFnd	1.44	*		550	490	12.1		
PCB-29	*	* n	NotFnd	1.25	*		550	490	13.9		
PCB-26	5.07e+06	0.95 y	26:06	1.21	2640		-	-	*		
PCB-25	2.41e+06	1.03 y	26:16	1.53	998		-	-	*		
PCB-31	3.77e+06	1.01 y	26:35	1.11	2140		-	-	*		
PCB-28	6.48e+06	0.95 y	26:40	1.60	2550		-	-	*		
PCB-20	3.02e+06	0.98 y	27:17	1.32	1450		-	-	*		Co-elute PCB 21/33
PCB-21	3.02e+06	0.98 y	27:17	1.32	1450		-	-	*		Co-elute PCB 20/33
PCB-33	3.02e+06	0.98 y	27:17	1.32	1450		-	-	*		Co-elute PCB 20/21
PCB-22	1.42e+06	0.97 y	27:43	1.34	667		-	-	*		
PCB-36	1.67e+06	0.96 y	28:21	1.11	947		-	-	*		
PCB-39	*	* n	NotFnd	1.09	*		550	490	16.0		
PCB-38	*	* n	NotFnd	1.24	*		550	490	14.1		
PCB-35	*	* n	NotFnd	0.96	*		550	490	18.1		
PCB-37	3.76e+05	1.07 y	30:29	1.29	184		-	-	*		
13C-PCB-37	1.59e+07	1.03 y	30:26	1.43	6680					66.8	

PCB-54	4.76e+04	0.81	y	25:34	1.17	22.6	-	-	*	
PCB-50	5.56e+04	0.72	y	26:41	0.86	36.0	-	-	*	
PCB-53	1.87e+06	0.80	y	27:17	0.83	1260	-	-	*	
PCB-51	4.61e+05	0.80	y	27:37	0.86	297	-	-	*	
PCB-45	1.35e+06	0.80	y	28:01	0.74	1020	-	-	*	
PCB-46	5.53e+05	0.75	y	28:29	0.69	448	-	-	*	
PCB-52	2.54e+07	0.79	y	28:55	1.02	13800	-	-	*	Co-elute PCB 69
PCB-69	2.54e+07	0.79	y	28:55	1.02	13800	-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.05	*	1090	1720	16.1	
PCB-43	1.11e+07	0.79	y	29:13	0.79	7840	-	-	*	Co-elute PCB 49
PCB-49	1.11e+07	0.79	y	29:13	0.79	7840	-	-	*	Co-elute PCB 43
PCB-47	2.67e+06	0.75	y	29:24	0.96	1540	-	-	*	
PCB-48	1.86e+06	0.80	y	29:31	1.05	985	-	-	*	Co-elute PCB 75
PCB-75	1.86e+06	0.80	y	29:31	1.05	985	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.04	*	1090	1720	16.3	
PCB-62	*	*	n	NotFnd	1.01	*	1090	1720	16.7	
PCB-44	9.26e+06	0.78	y	30:09	0.73	7080	-	-	*	
PCB-42	3.19e+06	0.77	y	30:23	0.99	1800	-	-	*	Co-elute PCB 59
PCB-59	3.19e+06	0.77	y	30:23	0.99	1800	-	-	*	Co-elute PCB 42
PCB-72	7.35e+06	0.79	y	30:57	1.06	3860	-	-	*	Co-elute PCB 41/71/64
PCB-41	7.35e+06	0.79	y	30:57	1.06	3860	-	-	*	Co-elute PCB 72/71/64
PCB-71	7.35e+06	0.79	y	30:57	1.06	3860	-	-	*	Co-elute PCB 72/41/64
PCB-64	7.35e+06	0.79	y	30:57	1.06	3860	-	-	*	Co-elute PCB 72/41/71
PCB-68	1.53e+05	0.79	y	31:13	1.12	76.1	-	-	*	
PCB-40	9.81e+05	0.84	y	31:23	0.64	857	-	-	*	
PCB-57	1.57e+05	0.74	y	31:45	1.06	82.9	-	-	*	
PCB-67	4.90e+05	0.71	y	32:02	1.06	256	-	-	*	
PCB-58	*	*	n	NotFnd	1.03	*	1090	1720	16.4	
PCB-63	2.92e+05	0.79	y	32:19	1.07	152	-	-	*	
PCB-74	2.33e+06	0.76	y	32:35	1.11	1170	-	-	*	
PCB-61	6.94e+06	0.78	y	32:47	1.08	3550	-	-	*	Co-elute PCB 70
PCB-70	6.94e+06	0.78	y	32:47	1.08	3550	-	-	*	Co-elute PCB 61
PCB-76	6.08e+06	0.84	y	32:59	1.14	2960	-	-	*	Co-elute PCB 66
PCB-66	6.08e+06	0.84	y	32:59	1.14	2960	-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.22	*	1090	1720	13.9	
PCB-55	2.71e+05	0.80	y	33:28	1.10	137	-	-	*	
13C-PCB-54	1.80e+07	0.82	y	25:33	1.20	9030				90.3
PCB-104	2.20e+06	1.54	y	30:00	1.25	1740	-	-	*	
PCB-96	1.42e+05	1.48	y	31:12	1.14	123	-	-	*	
PCB-103	1.59e+05	1.58	y	31:42	0.94	168	-	-	*	
PCB-100	7.08e+04	1.35	y	32:04	0.91	76.6	-	-	*	
PCB-94	6.41e+04	1.54	y	32:29	0.76	83.6	-	-	*	
PCB-98	*	*	n	NotFnd	0.97	*	336	368	7.34	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.97	*	336	368	7.34	Co-elute PCB 98
PCB-95	1.11e+07	1.57	y	33:01	0.80	13700	-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*	336	368	9.18	
PCB-88	1.42e+06	1.56	y	33:23	0.81	1730	-	-	*	Co-elute PCB 91
PCB-91	1.42e+06	1.56	y	33:23	0.81	1730	-	-	*	Co-elute PCB 88
PCB-121	2.94e+06	1.61	y	33:28	1.15	2530	-	-	*	
13C-PCB-104	1.01e+07	1.64	y	29:59	0.66	9320				93.2
13C-PCB-28	2.29e+07	1.07	y	26:40	1.63	8460				84.6
13C-PCB-52	1.66e+07	0.81	y	28:54	-	31.1				

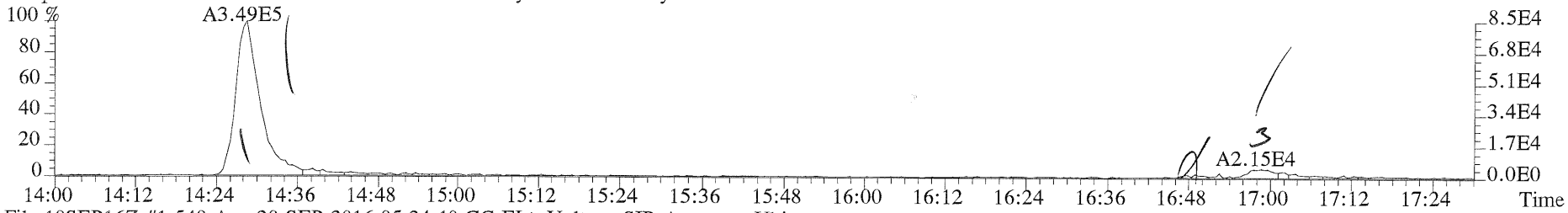
PCB-56	2.41e+06	0.75	y	33:57	1.24	1040		-	-	*	Co-elute PCB 60
PCB-60	2.41e+06	0.75	y	33:57	1.24	1040		-	-	*	Co-elute PCB 56
PCB-79	1.19e+05	0.84	y	34:57	1.23	51.5		-	-	*	
PCB-78	2.10e+06	0.76	y	35:42	1.13	991		-	-	*	
PCB-81	2.51e+05	0.68	y	36:07	1.23	109		-	-	*	
13C-PCB-81	1.87e+07	0.79	y	36:09	1.35	9430					94.3
PCB-77	3.32e+05	0.69	y	36:45	1.14	154		-	-	*	
13C-PCB-77	1.89e+07	0.80	y	36:44	1.37	9310					93.1
PCB-155	3.69e+06	1.30	y	34:10	1.18	2780		-	-	*	
PCB-150	2.03e+04	1.12	y	35:22	1.01	17.8	J	-	-	*	
PCB-152	1.44e+04	1.06	y	35:48	1.00	12.9	J	-	-	*	
PCB-145	*	*	n	NotFnd	1.00	*		288	312	5.98	
PCB-136	1.25e+06	1.23	y	36:33	0.94	1180		-	-	*	
PCB-148	1.25e+06	1.23	y	36:33	0.78	1420		-	-	*	
PCB-154	9.13e+04	1.11	y	37:06	0.85	95.9		-	-	*	
13C-PCB-155	1.12e+07	1.24	y	34:07	0.84	9100					91.0
13C-PCB-111	1.70e+07	1.57	y	36:15	1.16	9860					98.6
13C-PCB-101	1.48e+07	1.61	y	34:35	-	32.4					
PCB-84	7.30e+06	1.56	y	34:15	0.68	6180		-	-	*	Co-elute PCB 92
PCB-92	7.30e+06	1.56	y	34:15	0.68	6180		-	-	*	Co-elute PCB 84
PCB-89	2.24e+05	1.62	y	34:25	0.67	193		-	-	*	
PCB-90	1.38e+07	1.59	y	34:36	0.76	10500		-	-	*	Co-elute PCB 101
PCB-101	1.38e+07	1.59	y	34:36	0.76	10500		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.85	*		745	605	12.5	
PCB-99	6.23e+06	1.58	y	34:55	0.85	4240		-	-	*	
PCB-119	5.36e+05	1.66	y	35:22	0.96	322		-	-	*	
PCB-83	8.07e+05	1.52	y	35:32	0.78	594		-	-	*	Co-elute PCB 112
PCB-112	8.07e+05	1.52	y	35:32	0.78	594		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.92	*		745	605	11.5	
PCB-97	3.50e+06	1.55	y	35:51	0.82	2470		-	-	*	
PCB-86	*	*	n	NotFnd	0.66	*		745	605	16.1	
PCB-125	5.45e+06	1.56	y	36:07	0.85	3690		-	-	*	Co-elute PCB 87/117
PCB-87	5.45e+06	1.56	y	36:07	0.85	3690		-	-	*	Co-elute PCB 125/117
PCB-117	5.45e+06	1.56	y	36:07	0.85	3690		-	-	*	Co-elute PCB 125/87
PCB-111	2.22e+05	1.56	y	36:15	1.13	113		-	-	*	Co-elute PCB 115
PCB-115	2.22e+05	1.56	y	36:15	1.13	113		-	-	*	Co-elute PCB 111
PCB-85	1.94e+06	1.37	y	36:23	0.79	1410		-	-	*	Co-elute PCB 116
PCB-116	1.94e+06	1.37	y	36:23	0.79	1410		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.93	*		745	605	11.4	
PCB-110	1.81e+07	1.55	y	36:44	1.07	9720		-	-	*	
PCB-82	9.18e+05	1.50	y	37:21	0.55	958		-	-	*	
PCB-124	3.24e+05	1.37	y	38:01	1.03	182		-	-	*	
PCB-108	6.44e+05	1.40	y	38:11	1.17	317		-	-	*	Co-elute PCB 107
PCB-107	6.44e+05	1.40	y	38:11	1.17	317		-	-	*	Co-elute PCB 108
PCB-123	1.37e+05	1.39	y	38:19	1.34	64.1		-	-	*	
13C-PCB-123	1.59e+07	1.61	y	38:17	1.34	8240					82.4
PCB-118	8.03e+06	1.52	y	38:29	1.08	3920		-	-	*	Co-elute PCB 106
PCB-106	8.03e+06	1.52	y	38:29	1.08	3920		-	-	*	Co-elute PCB 118
13C-PCB-118	1.89e+07	1.64	y	38:27	1.45	9000					90.0
PCB-114	1.76e+05	1.73	y	39:07	1.10	92.3		-	-	*	
13C-PCB-114	1.73e+07	1.62	y	39:05	1.36	8770					87.7
PCB-122	1.22e+05	1.70	y	39:13	1.25	56.1		-	-	*	
PCB-105	2.54e+06	1.43	y	39:56	1.16	1270		-	-	*	
13C-PCB-105	1.73e+07	1.62	y	39:55	1.38	8650					86.5

PCB-127	*	*	n	NotFnd	1.07	*		600	752	9.90		
PCB-126	*	*	n	NotFnd	1.17	*		600	752	14.2		
13C-PCB-126	1.57e+07	1.59	y	42:05	1.27	8570					85.7	
PCB-151	1.47e+06	1.26	y	37:43	0.89	1060		-	-	*		
PCB-135	1.02e+06	1.33	y	37:56	0.81	812		-	-	*		
PCB-144	3.71e+05	1.33	y	38:03	1.04	229		-	-	*		
PCB-147	2.07e+05	1.37	y	38:09	0.96	137		-	-	*		
PCB-139	6.00e+06	1.27	y	38:24	0.98	3920		-	-	*	Co-elute PCB 149	
PCB-149	6.00e+06	1.27	y	38:24	0.98	3920		-	-	*	Co-elute PCB 139	
PCB-140	9.16e+04	1.33	y	38:34	0.96	60.9		-	-	*		
PCB-143	4.84e+05	1.28	y	39:00	0.89	348		-	-	*	Co-elute PCB 134	
PCB-134	4.84e+05	1.28	y	39:00	0.89	348		-	-	*	Co-elute PCB 143	
PCB-131	1.89e+05	1.20	y	39:17	0.91	133		-	-	*	Co-elute PCB 133	
PCB-133	1.89e+05	1.20	y	39:17	0.91	133		-	-	*	Co-elute PCB 131	
PCB-142	2.78e+06	1.23	y	39:27	0.79	2250		-	-	*		
PCB-165	9.28e+05	1.28	y	39:40	1.07	554		-	-	*	Co-elute PCB 146	
PCB-146	9.28e+05	1.28	y	39:40	1.07	554		-	-	*	Co-elute PCB 165	
PCB-161	2.44e+06	1.29	y	39:55	1.01	1550		-	-	*	Co-elute PCB 132	
PCB-132	2.44e+06	1.29	y	39:55	1.01	1550		-	-	*	Co-elute PCB 161	
PCB-153	5.42e+06	1.26	y	40:03	1.05	3330		-	-	*		
PCB-168	*	*	n	NotFnd	1.18	*		1070	1000	15.8		
PCB-141	9.18e+05	1.23	y	40:44	0.89	665		-	-	*		
PCB-137	2.70e+05	1.21	y	41:07	0.85	204		-	-	*		
PCB-130	4.60e+05	1.29	y	41:12	0.79	373		-	-	*		
PCB-138	6.44e+06	1.27	y	41:33	1.19	3480		-	-	*	Co-elute PCB 163/164	
PCB-163	6.44e+06	1.27	y	41:33	1.19	3480		-	-	*	Co-elute PCB 138/164	
PCB-164	6.44e+06	1.27	y	41:33	1.19	3480		-	-	*	Co-elute PCB 138/163	
PCB-158	9.10e+05	1.25	y	41:46	1.18	496		-	-	*	Co-elute PCB 160	
PCB-160	9.10e+05	1.25	y	41:46	1.18	496		-	-	*	Co-elute PCB 158	
PCB-129	2.82e+05	1.13	y	42:01	0.73	247		-	-	*		
PCB-166	3.80e+04	1.19	y	42:29	1.11	22.1		-	-	*		
PCB-159	3.31e+04	1.33	y	42:49	1.20	17.6	J	-	-	*		
PCB-128	9.36e+05	1.32	y	43:02	1.00	603		-	-	*	Co-elute PCB 162	
PCB-162	9.36e+05	1.32	y	43:02	1.00	603		-	-	*	Co-elute PCB 128	
PCB-167	1.92e+05	1.31	y	43:25	1.06	112		-	-	*		
13C-PCB-167	1.62e+07	1.27	y	43:24	1.15	9780					97.8	
PCB-156	4.29e+05	1.32	y	44:39	1.12	256		-	-	*		
13C-PCB-156	1.50e+07	1.28	y	44:38	1.10	9380					93.8	
PCB-157	1.19e+05	1.16	y	44:54	1.13	66.1		-	-	*		
13C-PCB-157	1.59e+07	1.27	y	44:52	1.13	9740					97.4	
PCB-169	*	*	n	NotFnd	1.07	*		1070	1000	18.6		
13C-PCB-169	1.53e+07	1.26	y	46:48	1.05	10000					100	

PCB-188	1.79e+04	1.12	y	39:40	1.25	11.1	J	-	-	*	
13C-PCB-188	1.29e+07	1.07	y	39:38	0.94	9520					95.2
PCB-184	5.75e+06	1.07	y	40:04	1.39	3490		-	-	*	
PCB-179	3.77e+05	1.07	y	40:49	1.31	244		-	-	*	
PCB-176	1.21e+05	1.04	y	41:15	1.28	80.3		-	-	*	
PCB-186	*	*	n	NotFnd	1.28	*		532	404	6.69	
PCB-178	1.05e+05	1.16	y	42:19	0.89	100		-	-	*	
PCB-175	2.19e+04	0.99	y	42:39	0.93	19.8	J	-	-	*	
PCB-187	6.14e+05	1.05	y	42:47	1.02	512		-	-	*	Co-elute PCB 182
PCB-182	6.14e+05	1.05	y	42:47	1.02	512		-	-	*	Co-elute PCB 187
PCB-183	2.82e+05	1.01	y	43:07	1.02	234		-	-	*	
PCB-185	3.89e+04	1.12	y	43:45	0.91	36.0		-	-	*	
PCB-174	4.18e+05	1.03	y	44:05	0.94	377		-	-	*	
PCB-181	*	*	n	NotFnd	0.87	*		532	404	9.78	
PCB-177	2.49e+05	0.98	y	44:21	0.80	263		-	-	*	
PCB-171	1.27e+05	1.11	y	44:38	0.89	121		-	-	*	
PCB-173	*	*	n	NotFnd	0.79	*		532	404	10.8	
PCB-172	1.28e+05	1.19	y	45:25	0.80	136		-	-	*	
PCB-192	3.08e+06	1.10	y	45:37	1.09	2390		-	-	*	
PCB-180	7.80e+05	0.99	y	45:47	1.06	620		-	-	*	
PCB-193	6.71e+04	1.16	y	45:58	1.16	48.7		-	-	*	
PCB-191	*	*	n	NotFnd	1.11	*		532	404	7.72	
PCB-170	2.90e+05	1.06	y	47:06	0.77	320		-	-	*	
PCB-190	7.85e+04	0.95	y	47:16	1.07	62.3		-	-	*	
PCB-189	*	*	n	NotFnd	1.23	*		532	404	7.83	
13C-PCB-189	1.07e+07	1.06	y	48:28	0.70	10600					106
PCB-202	2.52e+04	0.81	y	44:46	1.05	30.7		-	-	*	
PCB-201	*	*	n	NotFnd	1.05	*		352	400	9.93	
PCB-204	3.92e+06	0.89	y	45:24	1.05	4770		-	-	*	
PCB-197	4.10e+04	0.80	y	45:39	1.09	48.2		-	-	*	
PCB-200	*	*	n	NotFnd	1.01	*		352	400	10.4	
PCB-198	*	*	n	NotFnd	0.70	*		352	400	14.9	
PCB-199	5.86e+04	0.96	y	47:42	0.70	107		-	-	*	
PCB-203	7.43e+04	0.87	y	47:58	0.78	122		-	-	*	Co-elute PCB 196
PCB-196	7.43e+04	0.87	y	47:58	0.78	122		-	-	*	Co-elute PCB 203
13C-PCB-202	7.83e+06	0.92	y	44:46	0.57	9550					95.5
13C-PCB-178	9.41e+06	1.08	y	42:18	0.60	10900					109
13C-PCB-138	1.45e+07	1.28	y	41:32	-	33.2					
PCB-195	3.37e+04	0.81	y	49:06	0.74	32.8		-	-	*	
PCB-194	6.55e+04	0.80	y	49:57	0.82	57.3		-	-	*	
PCB-205	*	*	n	NotFnd	1.07	*		616	632	7.70	
13C-PCB-205	1.39e+07	0.90	y	50:12	1.27	10200					102
PCB-208	*	*	n	NotFnd	1.03	*		696	620	8.79	
13C-PCB-208	1.24e+07	0.81	y	49:13	1.14	10100					101
PCB-207	2.94e+04	1.26	y	49:31	1.15	24.3		-	-	*	
PCB-206	1.64e+04	1.45	y	51:29	1.04	17.9	J	-	-	*	
13C-PCB-206	8.76e+06	0.80	y	51:28	0.75	10800					108
PCB-209	3.04e+04	1.01	y	52:47	1.16	24.0		-	-	*	
13C-PCB-209	1.09e+07	1.22	y	52:45	0.93	11000					110
13C-PCB-194	1.08e+07	0.91	y	49:57	-	28.9					

Analyst: [illegible] Date: 9/22/16

File:19SEP16Z #1-549 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:17 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



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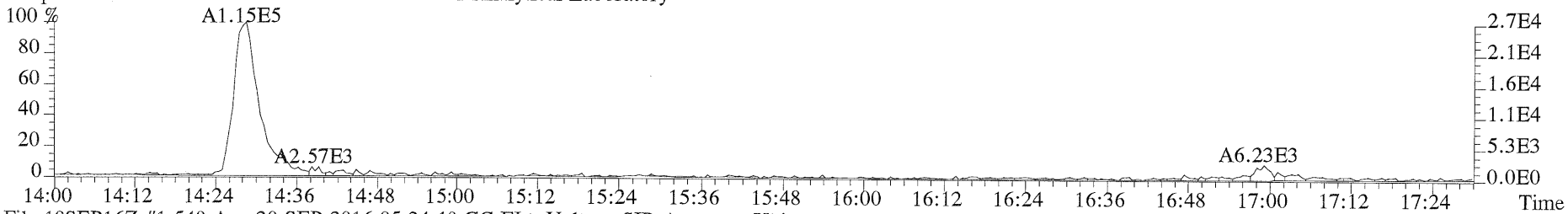

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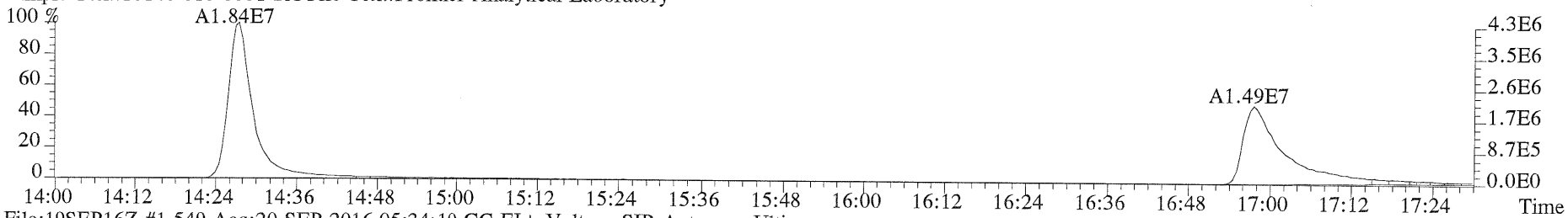

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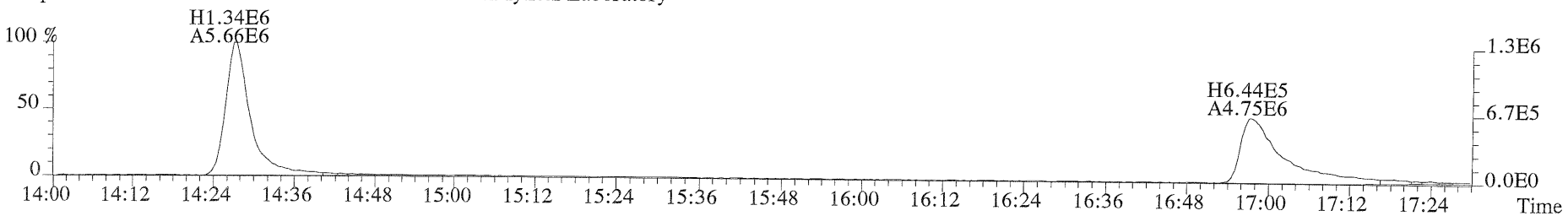
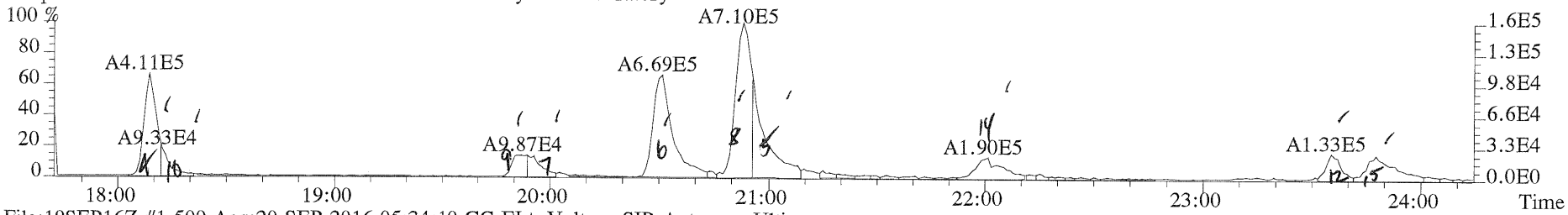
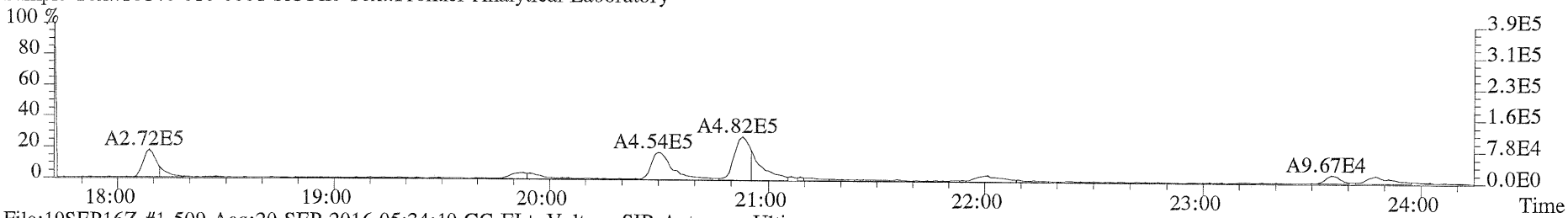
202.0766 S:17 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



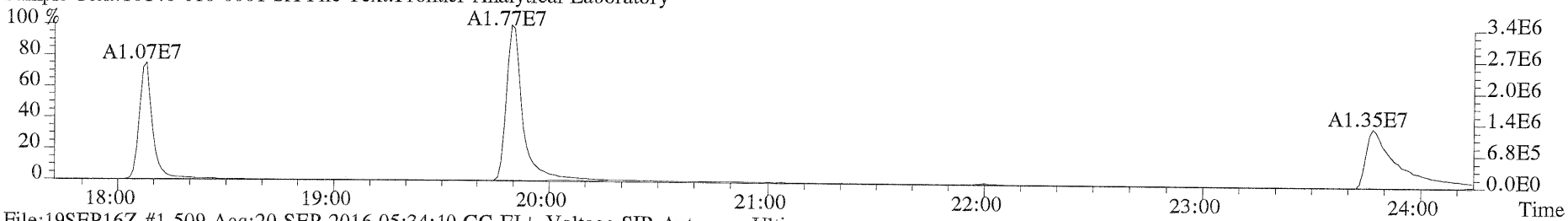
File:19SEP16Z #1-509 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:17 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



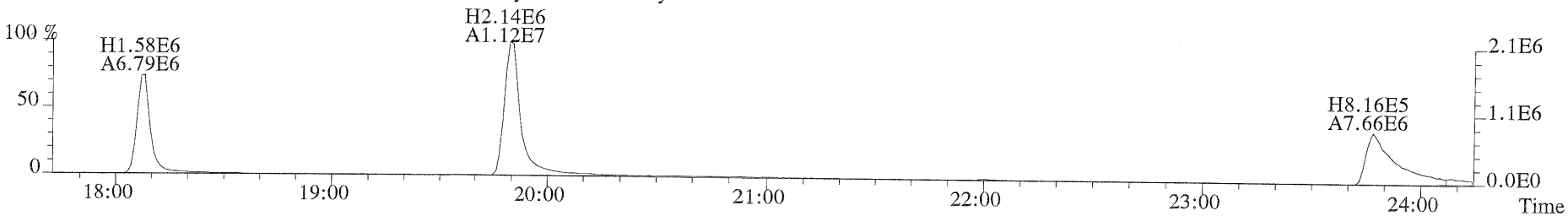
File:19SEP16Z #1-509 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:17 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



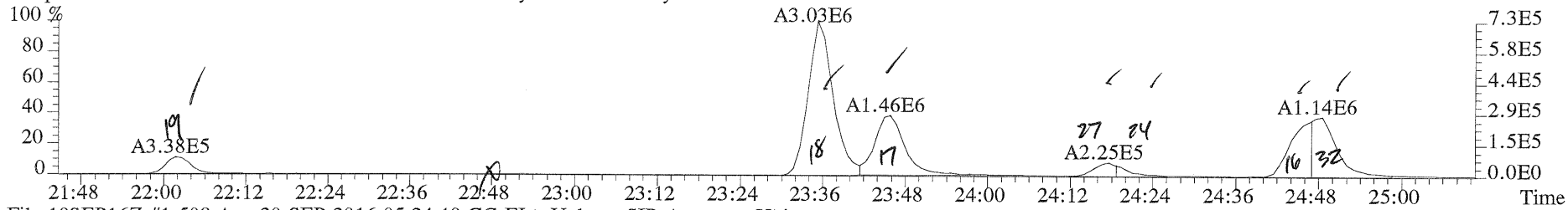
File:19SEP16Z #1-509 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:17 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



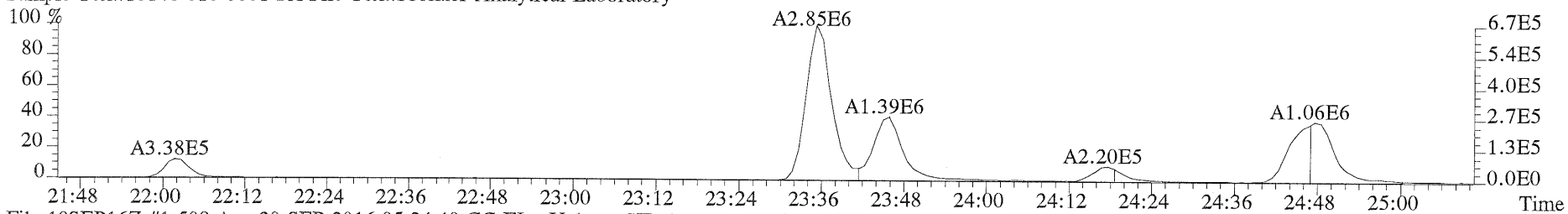
File:19SEP16Z #1-509 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:17 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



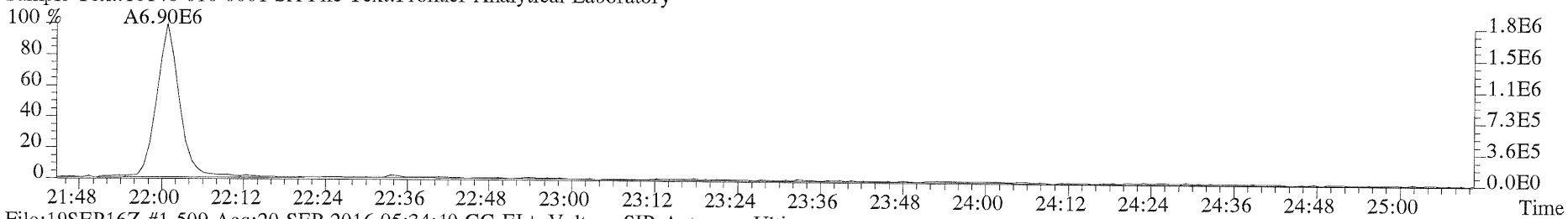
File:19SEP16Z #1-509 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:17 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



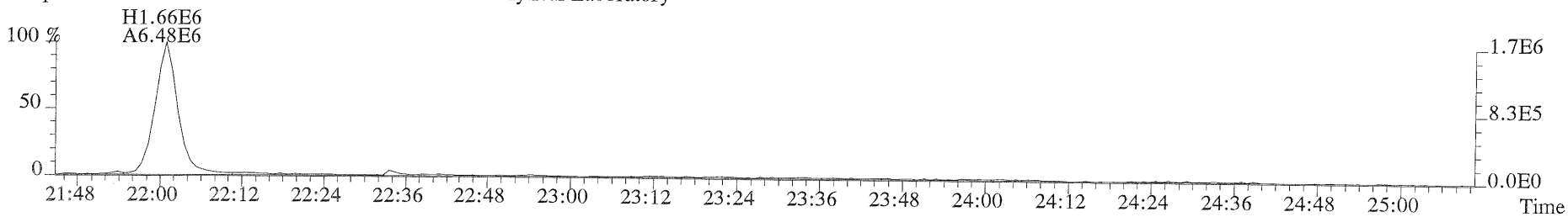
File:19SEP16Z #1-509 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:17 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



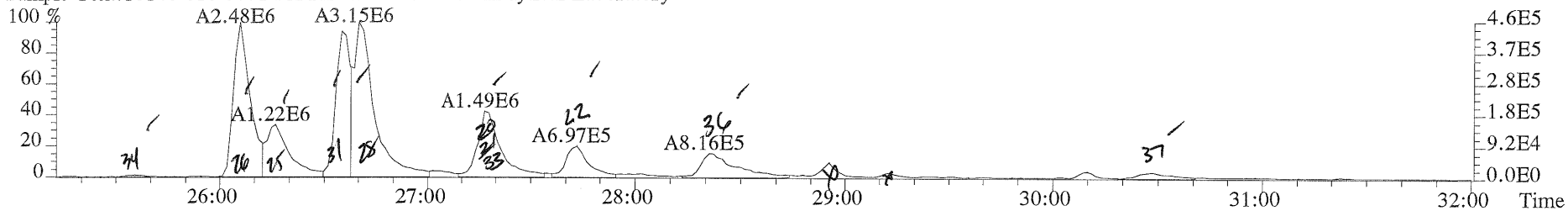
File:19SEP16Z #1-509 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:17 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



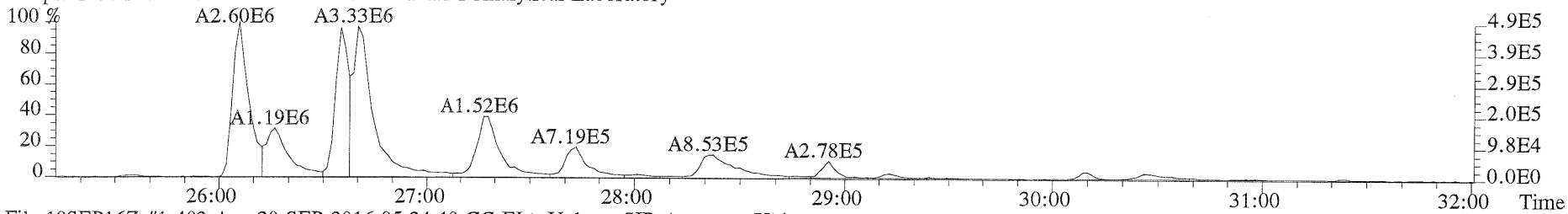
File:19SEP16Z #1-509 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:17 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



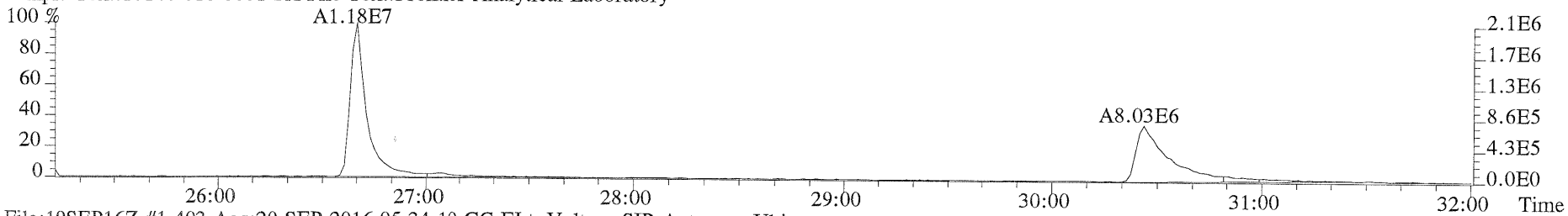
File:19SEP16Z #1-403 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:17 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



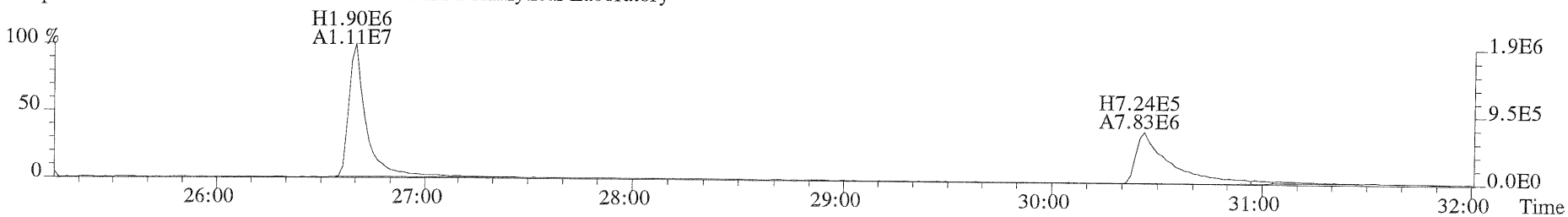
File:19SEP16Z #1-403 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:17 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



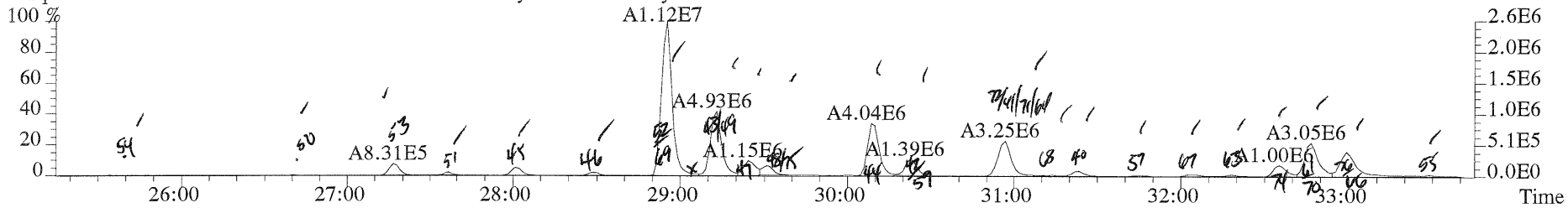
File:19SEP16Z #1-403 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:17 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



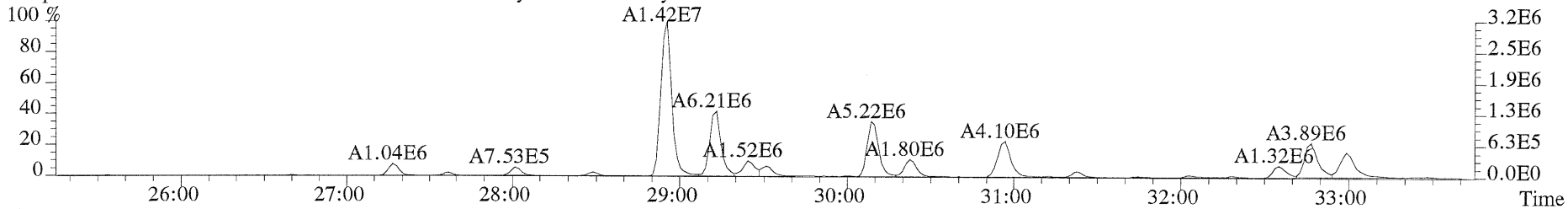
File:19SEP16Z #1-403 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:17 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



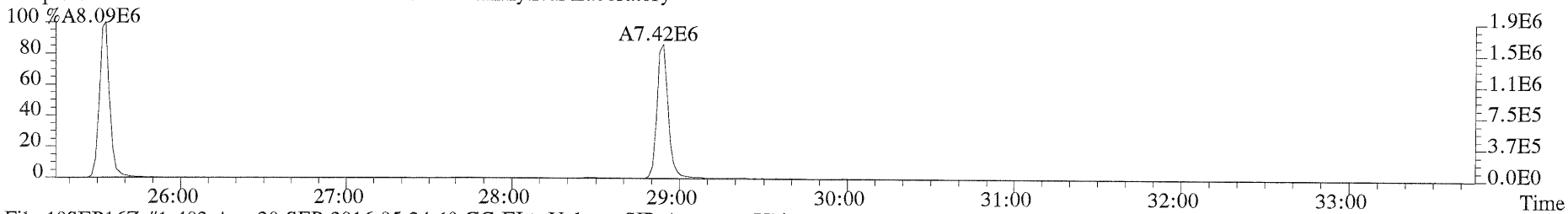
File:19SEP16Z #1-403 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:17 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



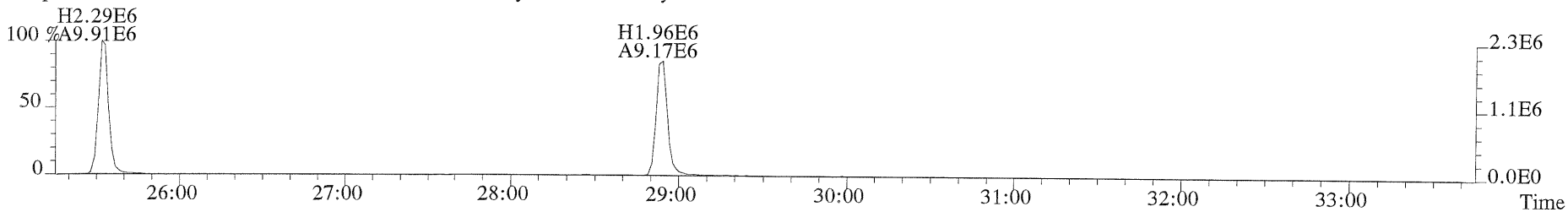
File:19SEP16Z #1-403 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:17 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



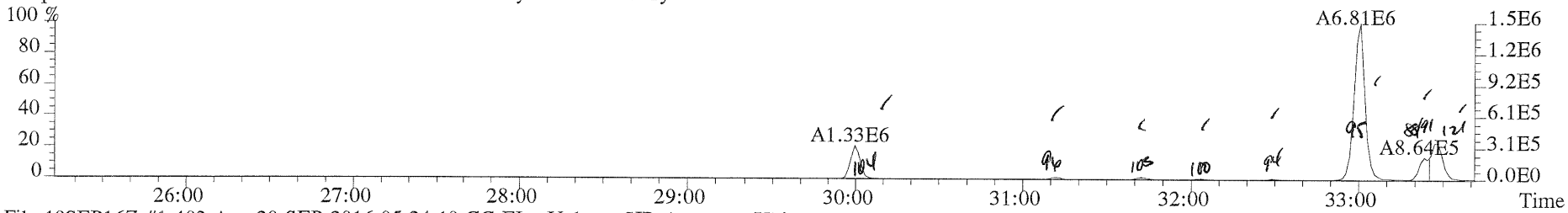
File:19SEP16Z #1-403 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:17 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



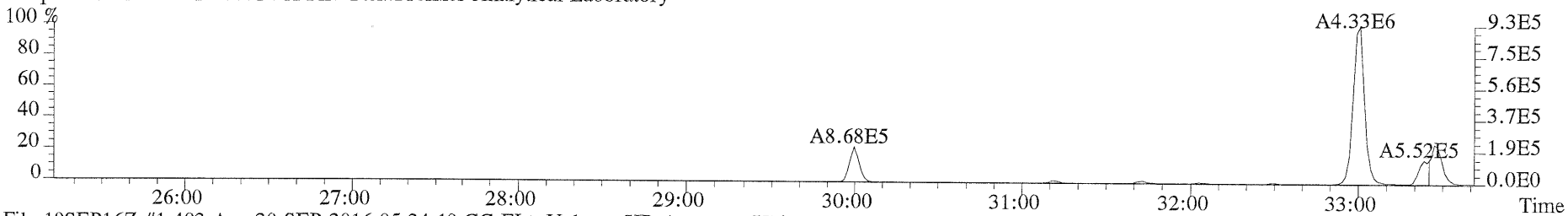
File:19SEP16Z #1-403 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:17 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



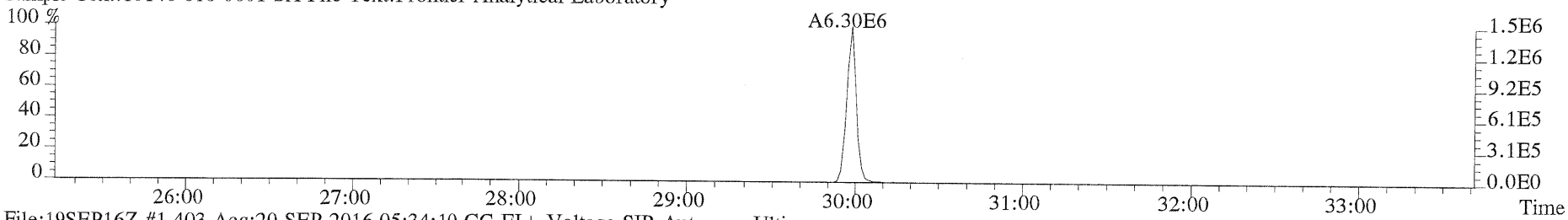
File:19SEP16Z #1-403 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:17 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



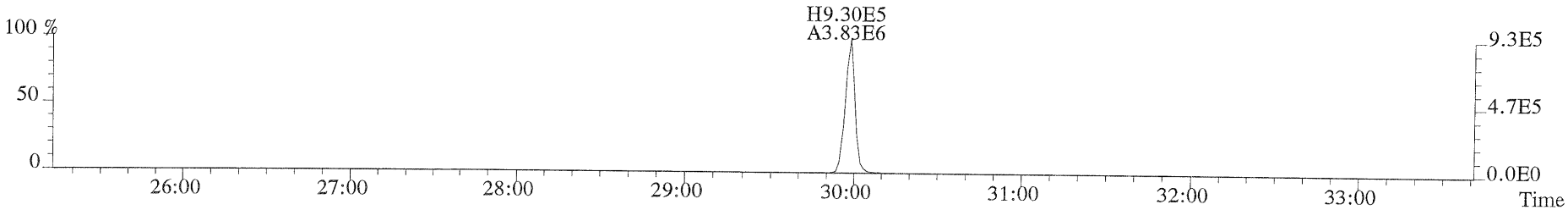
File:19SEP16Z #1-403 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:17 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



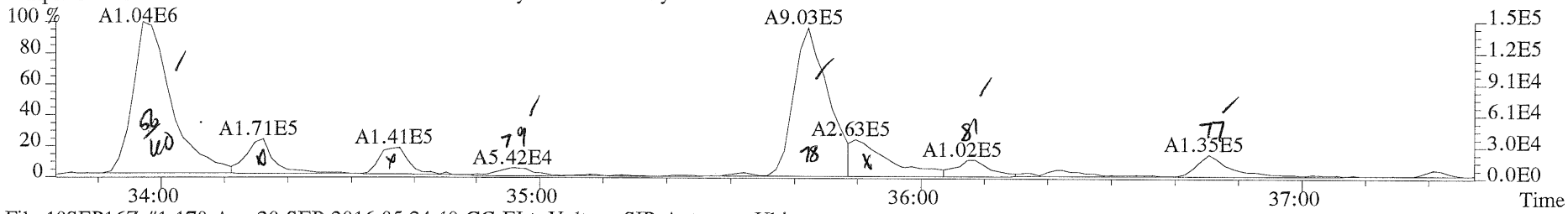
File:19SEP16Z #1-403 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:17 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



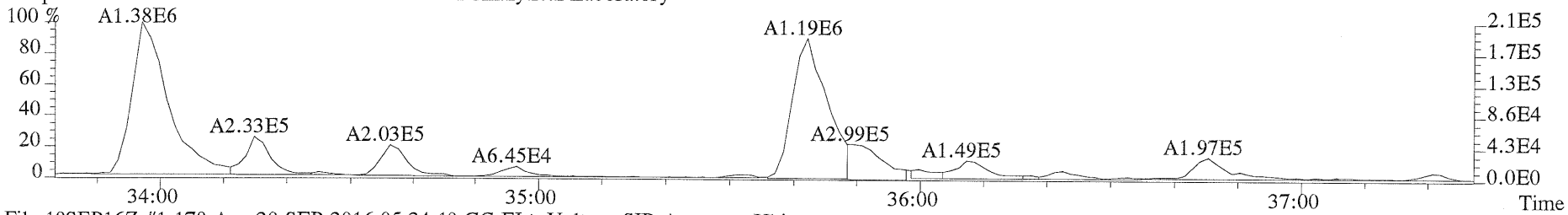
File:19SEP16Z #1-403 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:17 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



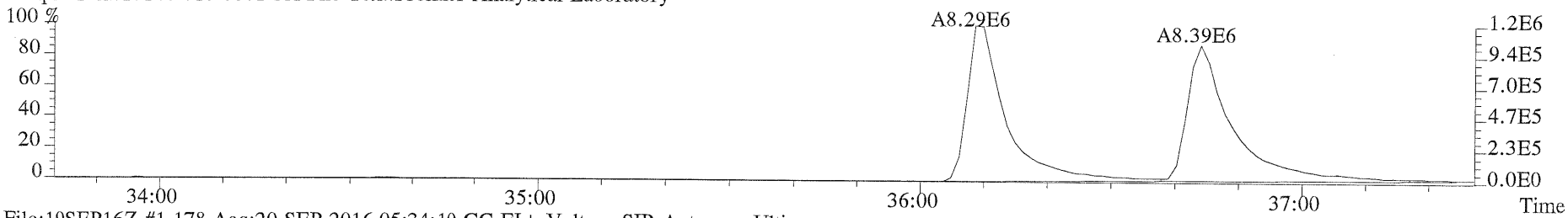
File:19SEP16Z #1-178 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:17 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



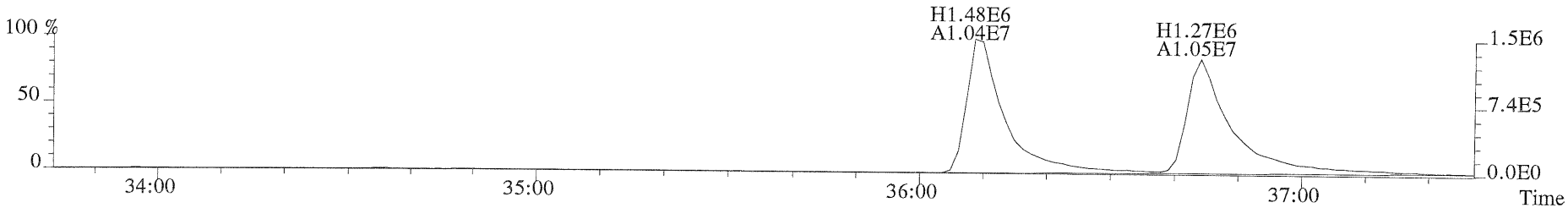
File:19SEP16Z #1-178 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:17 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



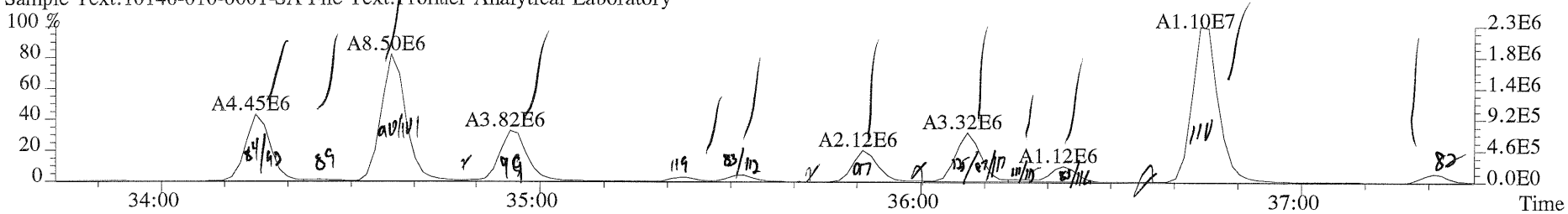
File:19SEP16Z #1-178 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:17 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



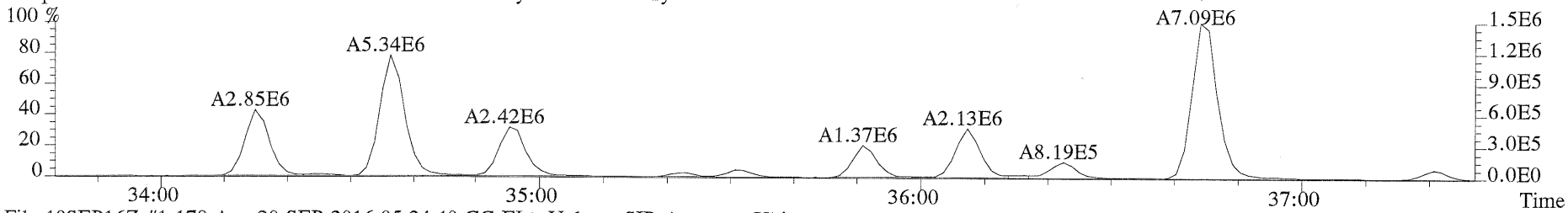
File:19SEP16Z #1-178 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:17 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



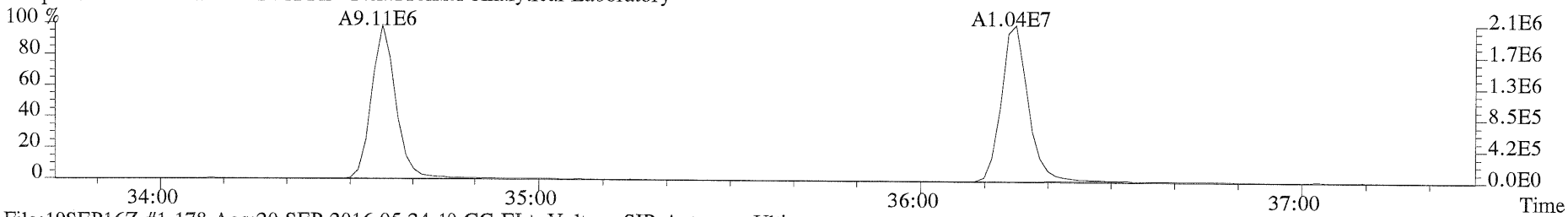
File:19SEP16Z #1-178 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:17 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



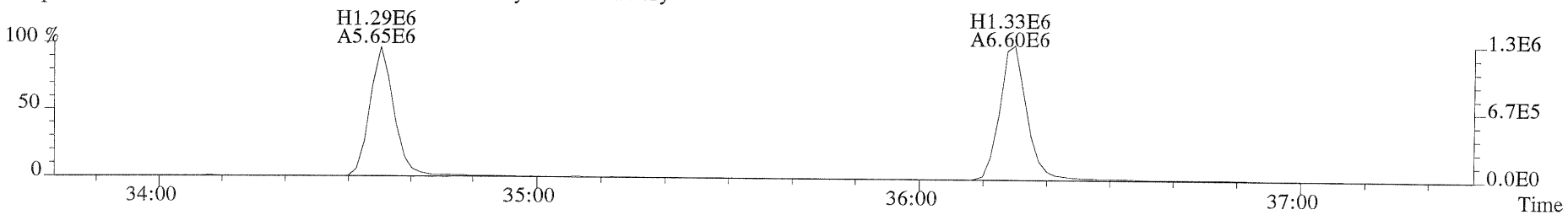
File:19SEP16Z #1-178 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:17 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



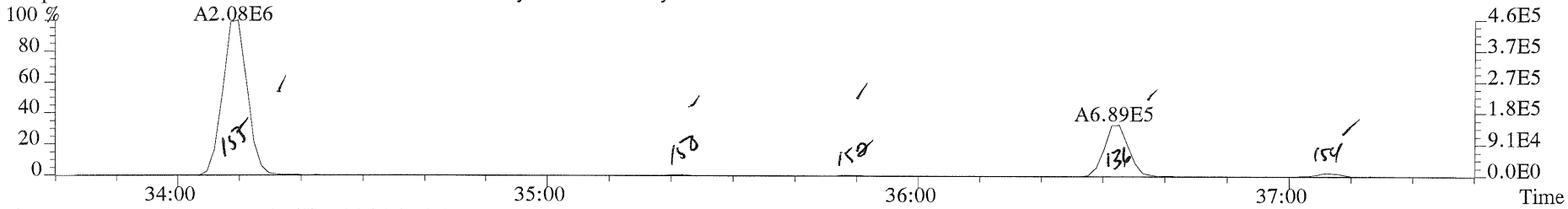
File:19SEP16Z #1-178 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:17 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



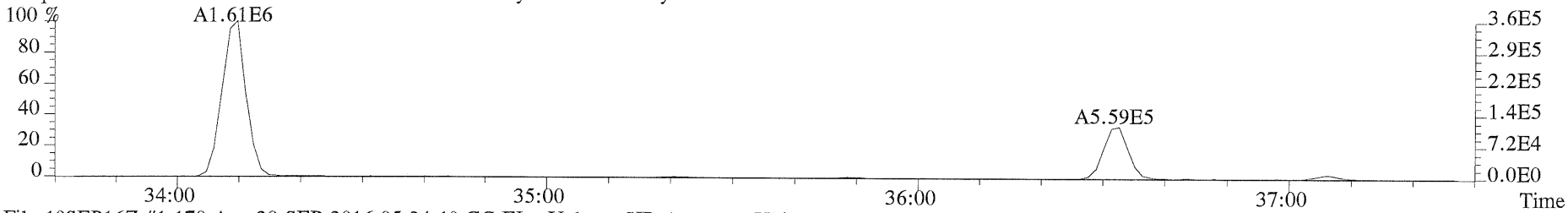
File:19SEP16Z #1-178 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:17 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



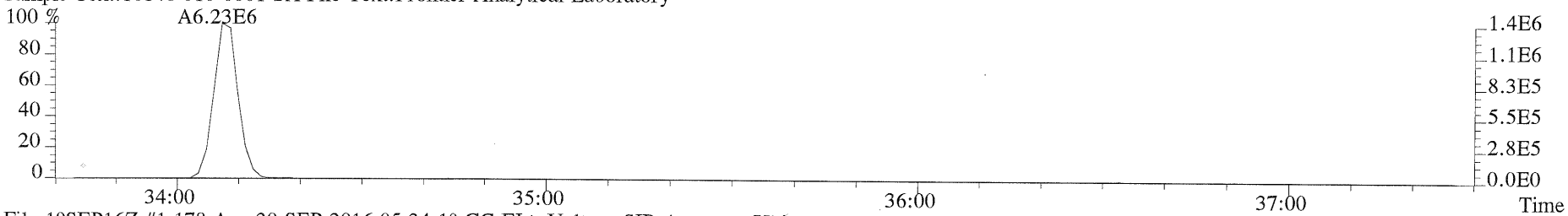
File:19SEP16Z #1-178 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:17 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



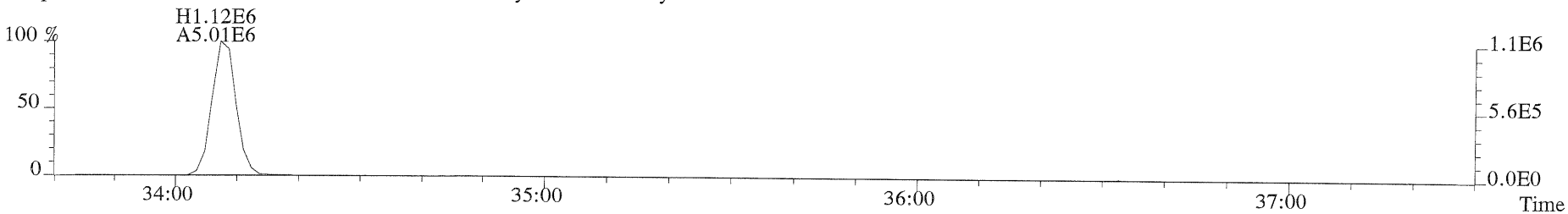
File:19SEP16Z #1-178 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:17 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



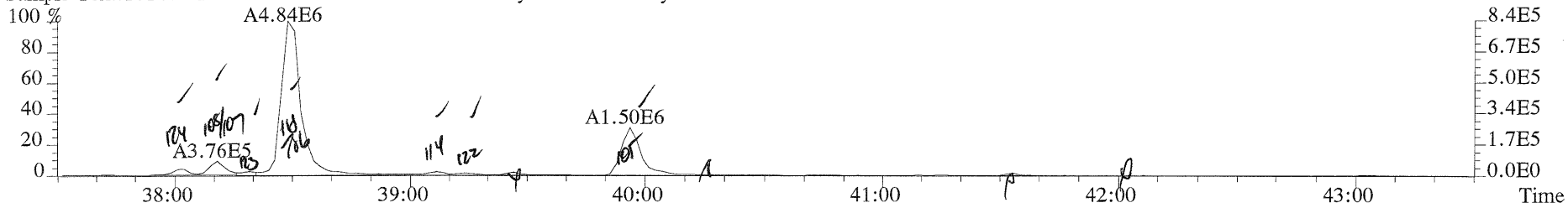
File:19SEP16Z #1-178 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:17 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



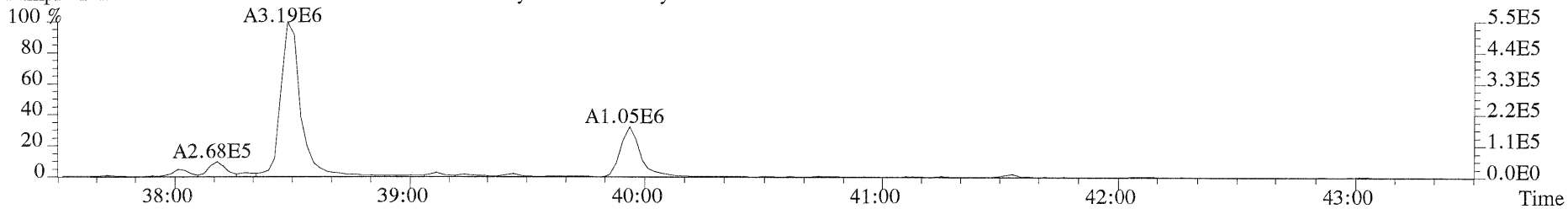
File:19SEP16Z #1-178 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:17 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



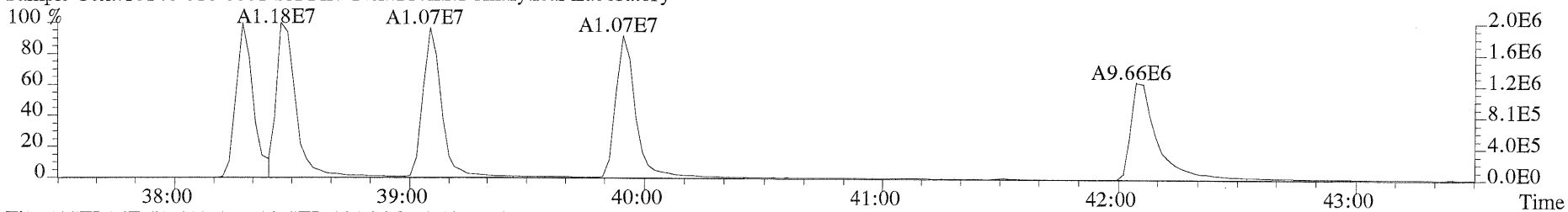
File:19SEP16Z #1-412 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



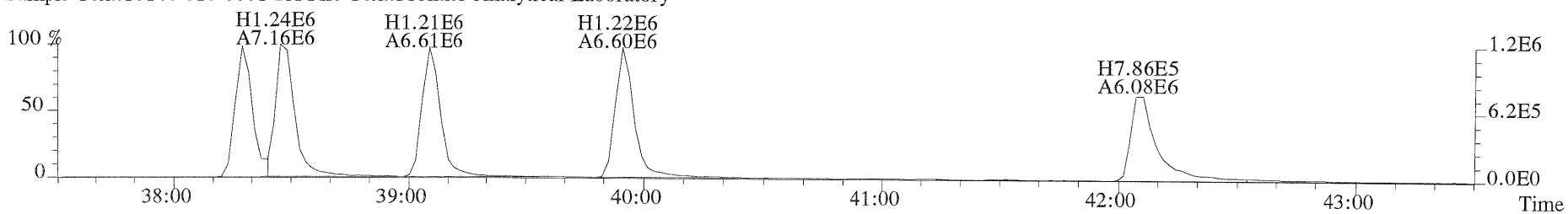
File:19SEP16Z #1-412 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



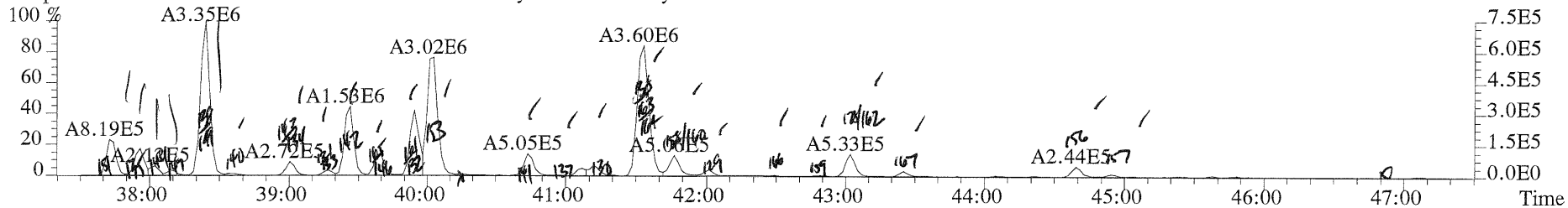
File:19SEP16Z #1-412 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



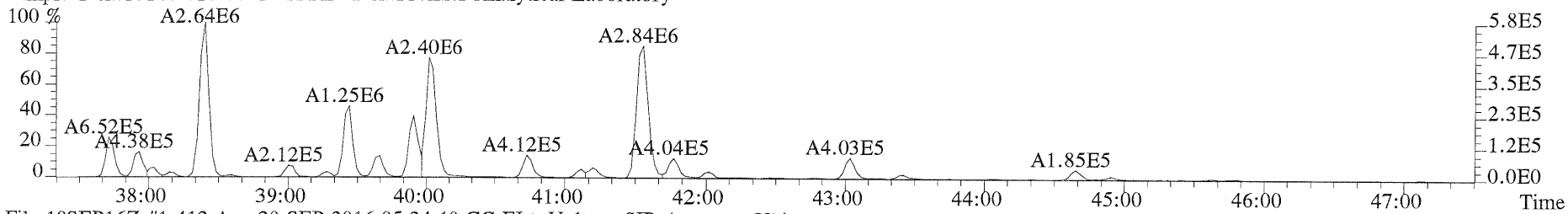
File:19SEP16Z #1-412 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



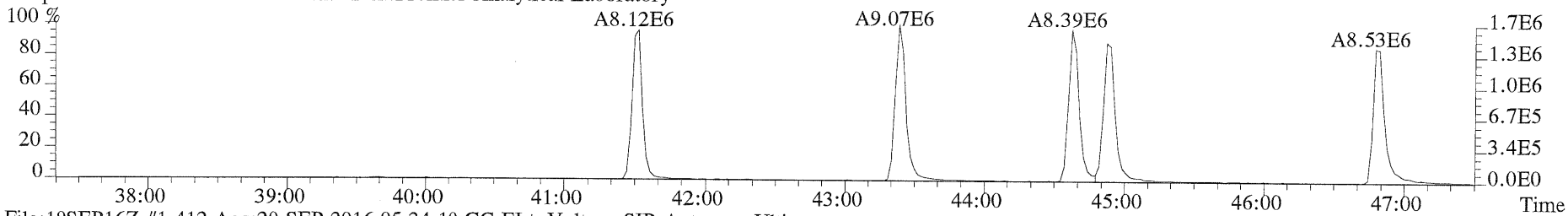
File:19SEP16Z #1-412 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



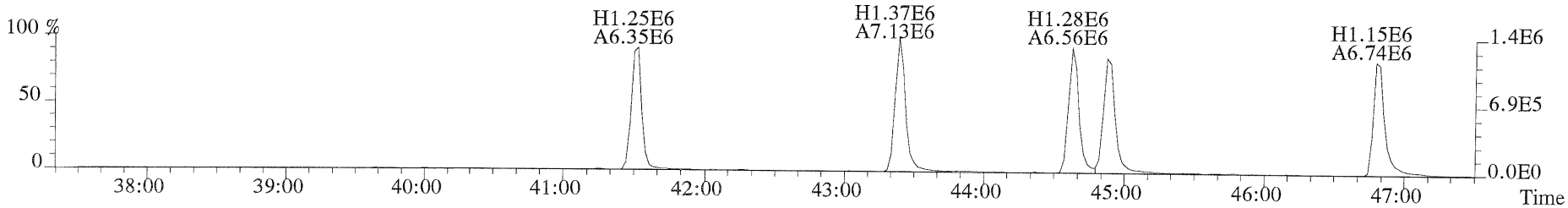
File:19SEP16Z #1-412 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



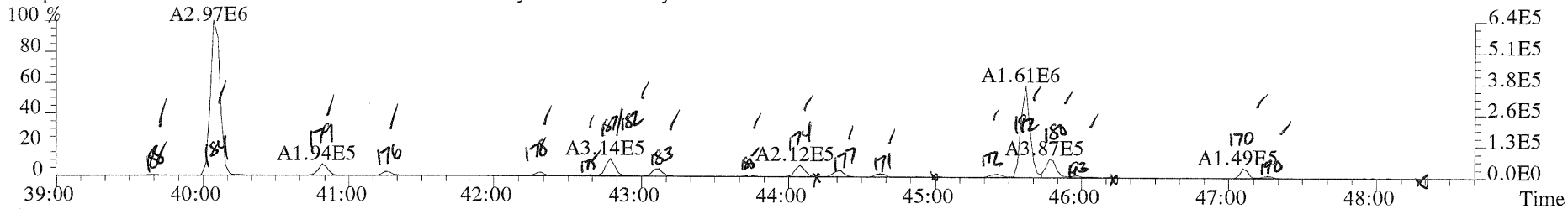
File:19SEP16Z #1-412 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



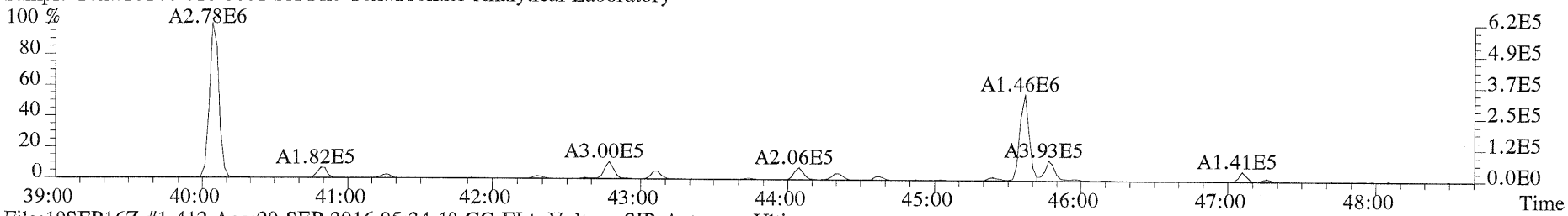
File:19SEP16Z #1-412 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



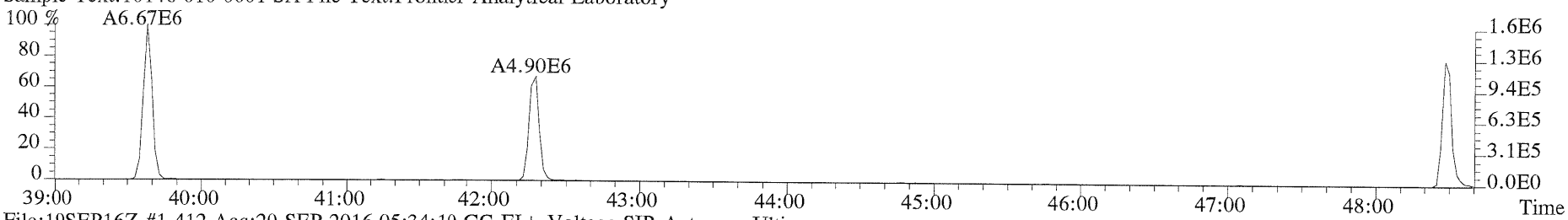
File:19SEP16Z #1-412 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



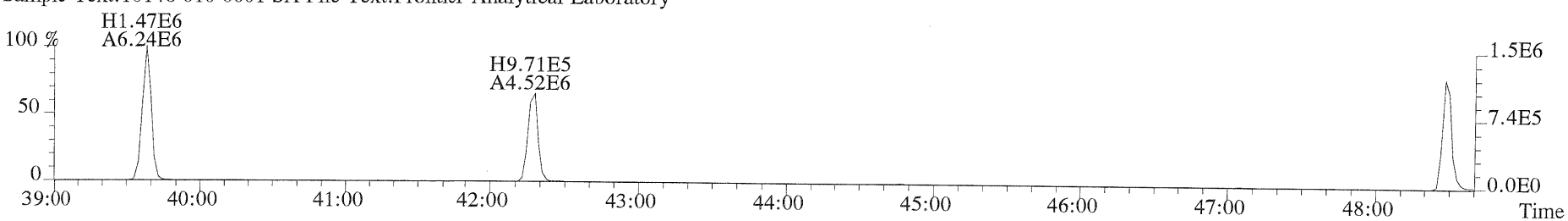
File:19SEP16Z #1-412 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



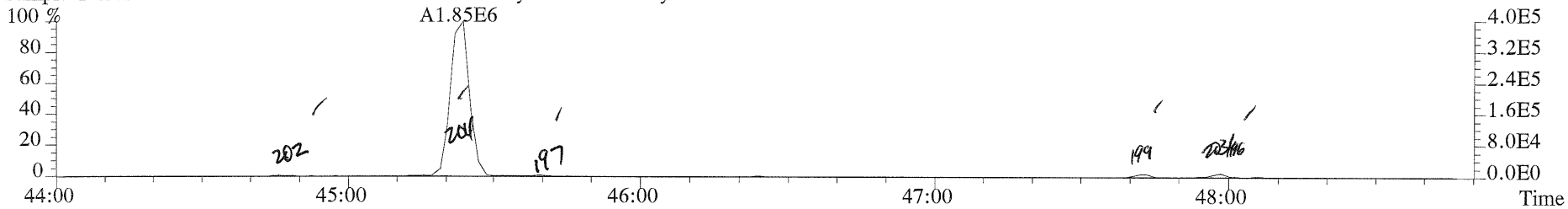
File:19SEP16Z #1-412 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



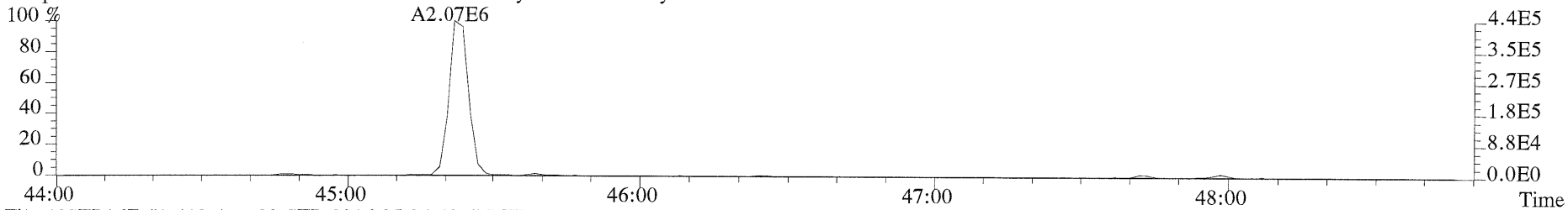
File:19SEP16Z #1-412 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



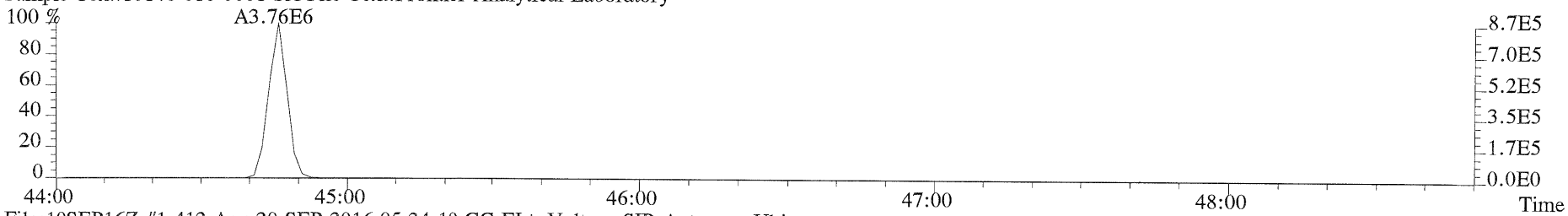
File:19SEP16Z #1-412 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



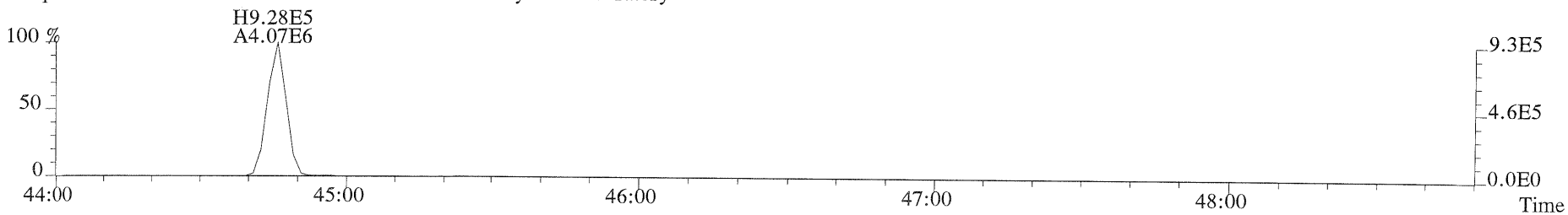
File:19SEP16Z #1-412 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



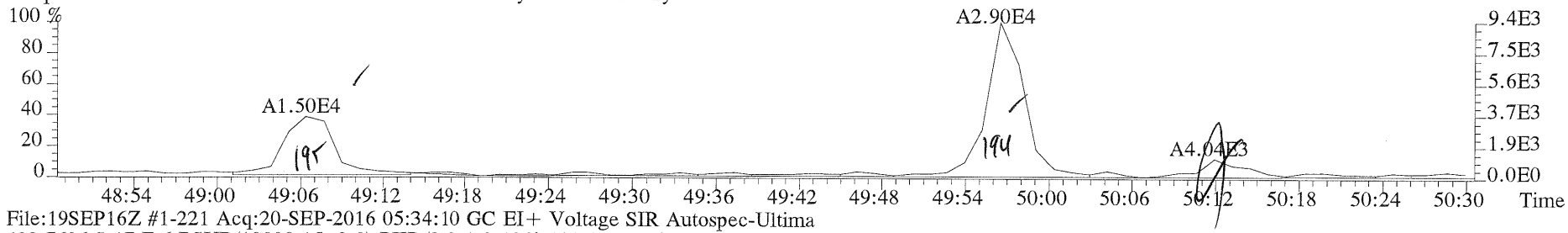
File:19SEP16Z #1-412 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



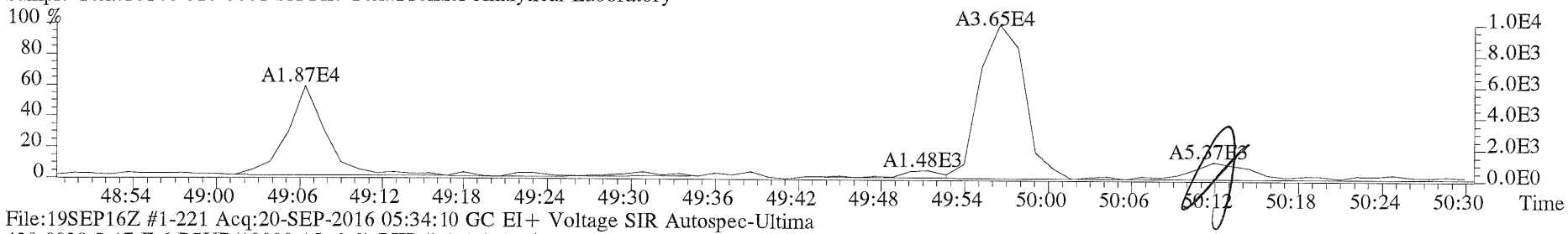
File:19SEP16Z #1-412 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



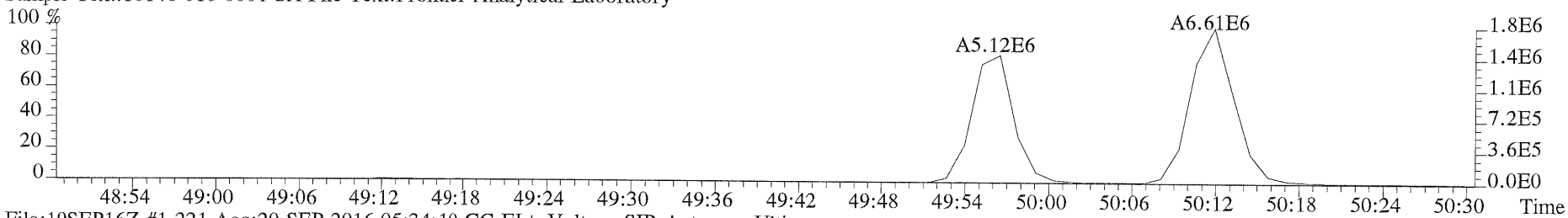
File:19SEP16Z #1-221 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:17 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



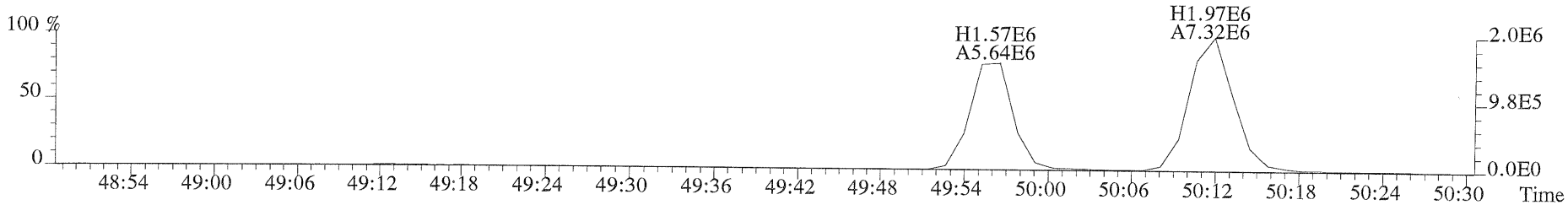
File:19SEP16Z #1-221 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:17 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



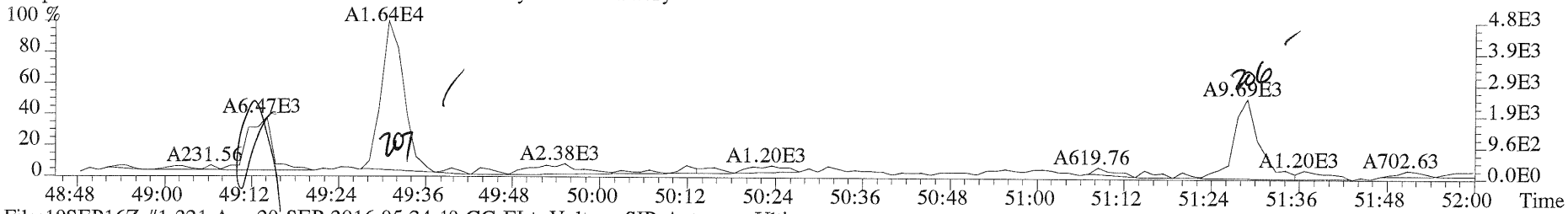
File:19SEP16Z #1-221 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:17 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



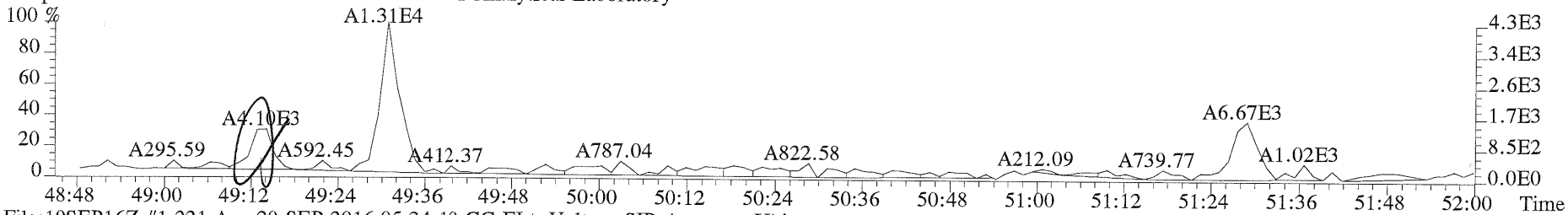
File:19SEP16Z #1-221 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:17 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



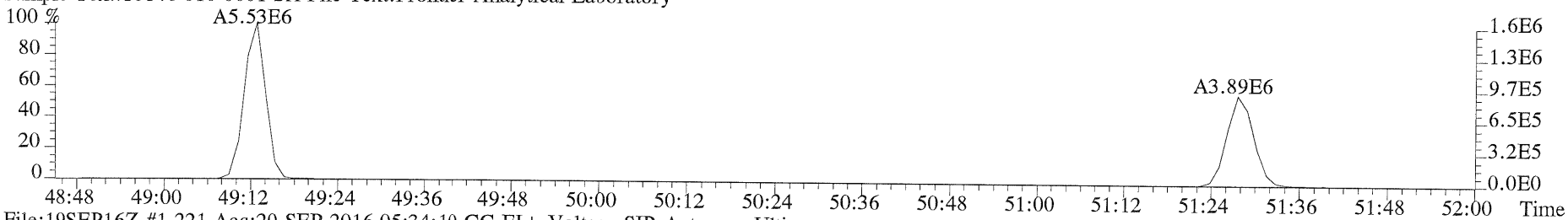
File:19SEP16Z #1-221 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:17 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



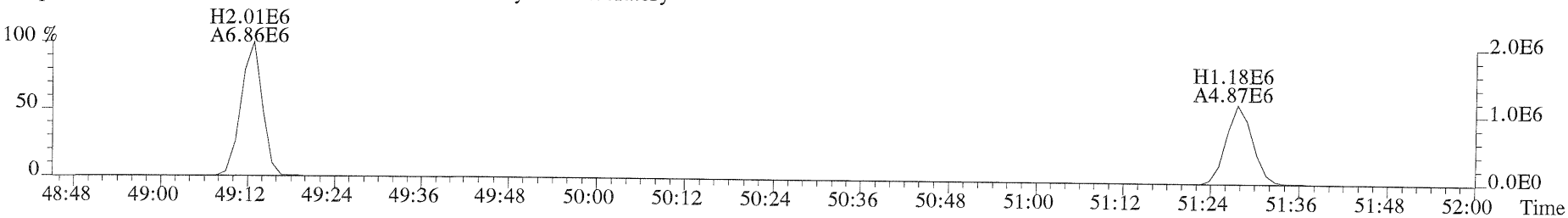
File:19SEP16Z #1-221 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:17 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



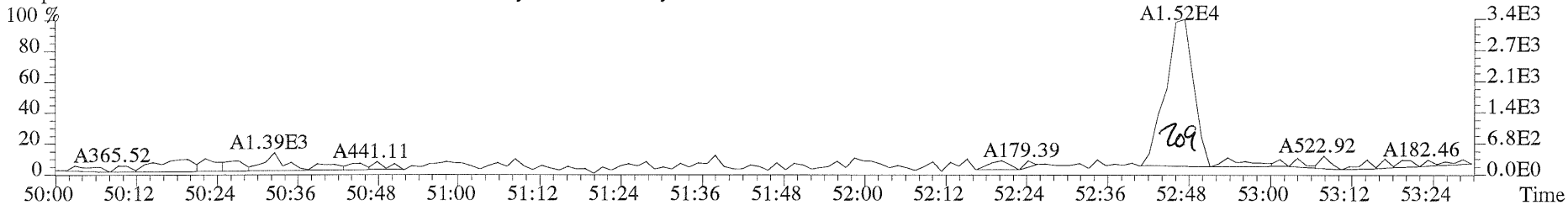
File:19SEP16Z #1-221 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:17 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



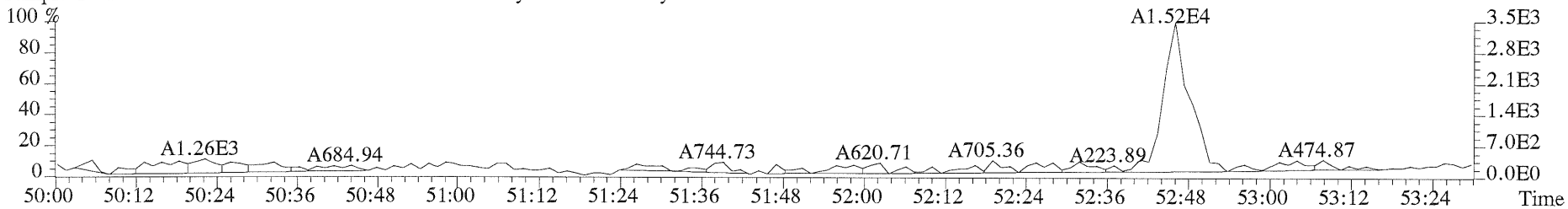
File:19SEP16Z #1-221 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:17 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



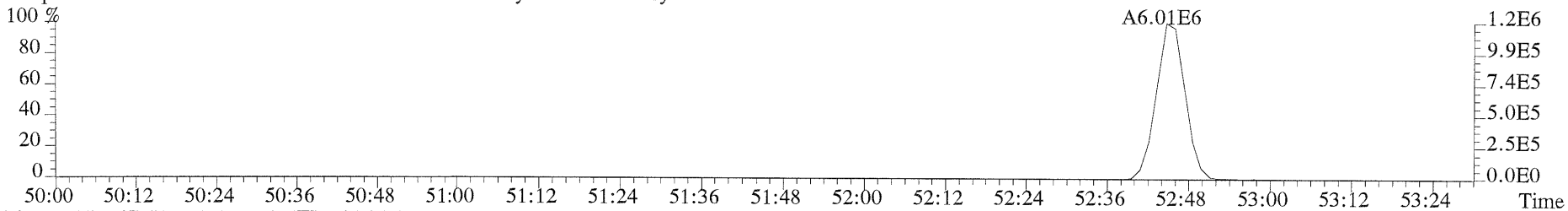
File:19SEP16Z #1-221 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:17 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



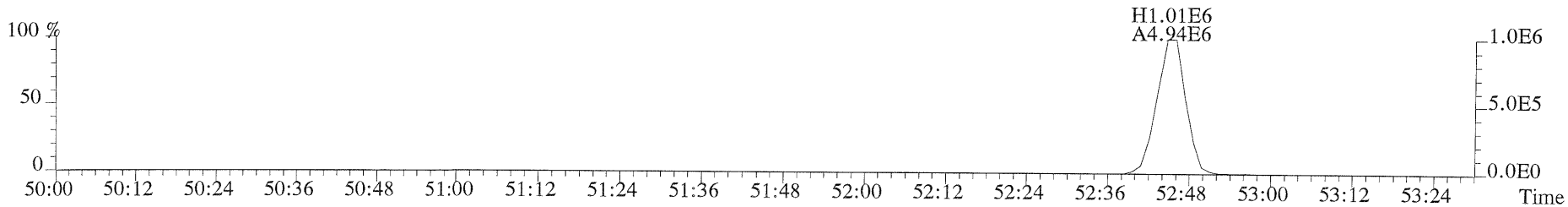
File:19SEP16Z #1-221 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:17 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:17 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:20-SEP-2016 05:34:10 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:17 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-010-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10146-011-0001-SA Filename: 19SEP16Z Sam:18 Acquired: 20-SEP-16 06:30:36 ICal: DAILY209FAL4-9-19-16
Client ID: LDW-BA-IN-ENR-CB-S010 ConCal: ST091916Z2 EndCal: ST091916Z3
Results: 10146 GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	4.18e+05	3.28 y	14:29	1.12	136		-	-	*	
13C-PCB-1	2.76e+07	3.31 y	14:27	0.94	8480					84.8
PCB-2	*	* n	NotFnd	0.91	*		712	668	7.83	
PCB-3	4.87e+04	3.55 y	16:57	1.28	17.0	J	-	-	*	
13C-PCB-3	2.23e+07	3.22 y	16:58	0.80	8020					80.2
PCB-4	1.03e+06	1.46 y	18:09	1.14	455		-	-	*	
PCB-10	3.81e+05	1.45 y	18:11	1.32	127		-	-	*	
13C-PCB-4	1.99e+07	1.61 y	18:08	0.63	9150					91.5
PCB-9	2.84e+05	1.34 y	19:52	1.35	92.7		-	-	*	
PCB-7	3.22e+05	1.50 y	19:54	1.51	94.5		-	-	*	
PCB-6	3.79e+06	1.59 y	20:30	1.47	1140		-	-	*	
PCB-8	1.75e+06	1.51 y	20:53	1.28	601		-	-	*	
PCB-5	1.77e+06	1.53 y	20:54	1.55	504		-	-	*	
PCB-14	5.41e+05	1.47 y	22:00	1.38	173		-	-	*	
PCB-11	*	* n	NotFnd	1.14	*		1380	1220	17.0	
PCB-13	*	* n	NotFnd	1.15	*		1380	1220	16.9	
PCB-12	3.98e+05	1.41 y	23:36	1.29	136		-	-	*	
PCB-15	4.44e+05	1.53 y	23:47	1.33	132		-	-	*	
13C-PCB-15	2.53e+07	1.56 y	23:46	0.88	8310					83.1
PCB-19	1.27e+06	1.04 y	22:02	1.22	717		-	-	*	
PCB-30	*	* n	NotFnd	1.71	*		532	492	4.29	
PCB-18	1.34e+07	1.06 y	23:35	1.12	8290		-	-	*	
PCB-17	5.94e+06	1.07 y	23:45	1.29	3170		-	-	*	
PCB-27	5.86e+05	1.03 y	24:17	1.63	248		-	-	*	
PCB-24	7.96e+05	1.08 y	24:18	1.69	326		-	-	*	
PCB-16	3.66e+06	1.03 y	24:46	1.28	1980		-	-	*	
PCB-32	4.57e+06	1.08 y	24:48	1.55	2040		-	-	*	
13C-PCB-19	1.45e+07	1.11 y	22:01	0.47	8820					88.2
13C-PCB-9	3.47e+07	1.59 y	19:49	-	35.4					
PCB-34	1.19e+05	1.00 y	25:34	0.98	60.3		-	-	*	
PCB-23	6.10e+04	0.94 y	25:37	1.44	20.9		-	-	*	
PCB-29	5.14e+04	1.10 y	25:53	1.25	20.3		-	-	*	
PCB-26	1.31e+07	0.96 y	26:05	1.21	5370		-	-	*	
PCB-25	6.50e+06	0.96 y	26:15	1.53	2110		-	-	*	
PCB-31	9.29e+06	0.96 y	26:35	1.11	4140		-	-	*	
PCB-28	1.25e+07	0.98 y	26:40	1.60	3880		-	-	*	
PCB-20	6.07e+06	0.97 y	27:17	1.32	2290		-	-	*	Co-elute PCB 21/33
PCB-21	6.07e+06	0.97 y	27:17	1.32	2290		-	-	*	Co-elute PCB 20/33
PCB-33	6.07e+06	0.97 y	27:17	1.32	2290		-	-	*	Co-elute PCB 20/21
PCB-22	3.05e+06	0.98 y	27:42	1.34	1130		-	-	*	
PCB-36	2.11e+06	1.07 y	28:21	1.11	943		-	-	*	
PCB-39	*	* n	NotFnd	1.09	*		610	613	14.6	
PCB-38	*	* n	NotFnd	1.24	*		610	613	12.9	
PCB-35	*	* n	NotFnd	0.96	*		610	613	16.5	
PCB-37	6.57e+05	1.09 y	30:26	1.29	253		-	-	*	
13C-PCB-37	2.02e+07	1.05 y	30:25	1.43	7180					71.8

PCB-54	8.06e+04	0.79	y	25:33	1.17	33.6	-	-	*	
PCB-50	9.81e+04	0.73	y	26:41	0.86	55.8	-	-	*	
PCB-53	3.15e+06	0.81	y	27:17	0.83	1860	-	-	*	
PCB-51	7.97e+05	0.83	y	27:37	0.86	450	-	-	*	
PCB-45	2.70e+06	0.79	y	28:01	0.74	1790	-	-	*	
PCB-46	1.04e+06	0.80	y	28:29	0.69	740	-	-	*	
PCB-52	4.20e+07	0.79	y	28:54	1.02	20000	-	-	*	Co-elute PCB 69
PCB-69	4.20e+07	0.79	y	28:54	1.02	20000	-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.05	*	720	987	8.66	
PCB-43	1.91e+07	0.79	y	29:12	0.79	11800	-	-	*	Co-elute PCB 49
PCB-49	1.91e+07	0.79	y	29:12	0.79	11800	-	-	*	Co-elute PCB 43
PCB-47	4.63e+06	0.79	y	29:24	0.96	2350	-	-	*	
PCB-48	2.80e+06	0.82	y	29:31	1.05	1300	-	-	*	Co-elute PCB 75
PCB-75	2.80e+06	0.82	y	29:31	1.05	1300	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.04	*	720	987	8.75	
PCB-62	*	*	n	NotFnd	1.01	*	720	987	8.97	
PCB-44	1.60e+07	0.79	y	30:09	0.73	10700	-	-	*	
PCB-42	5.84e+06	0.79	y	30:22	0.99	2890	-	-	*	Co-elute PCB 59
PCB-59	5.84e+06	0.79	y	30:22	0.99	2890	-	-	*	Co-elute PCB 42
PCB-72	1.27e+07	0.79	y	30:55	1.06	5830	-	-	*	Co-elute PCB 41/71/64
PCB-41	1.27e+07	0.79	y	30:55	1.06	5830	-	-	*	Co-elute PCB 72/71/64
PCB-71	1.27e+07	0.79	y	30:55	1.06	5830	-	-	*	Co-elute PCB 72/41/64
PCB-64	1.27e+07	0.79	y	30:55	1.06	5830	-	-	*	Co-elute PCB 72/41/71
PCB-68	2.67e+05	0.81	y	31:12	1.12	116	-	-	*	
PCB-40	1.73e+06	0.79	y	31:22	0.64	1330	-	-	*	
PCB-57	4.61e+05	0.87	y	31:45	1.06	213	-	-	*	
PCB-67	1.25e+06	0.80	y	32:02	1.06	574	-	-	*	
PCB-58	*	*	n	NotFnd	1.03	*	720	987	8.82	
PCB-63	5.21e+05	0.73	y	32:18	1.07	238	-	-	*	
PCB-74	3.64e+06	0.81	y	32:35	1.11	1600	-	-	*	
PCB-61	8.12e+06	0.78	y	32:45	1.08	3650	-	-	*	Co-elute PCB 70
PCB-70	8.12e+06	0.78	y	32:45	1.08	3650	-	-	*	Co-elute PCB 61
PCB-76	8.92e+06	0.79	y	32:59	1.14	3810	-	-	*	Co-elute PCB 66
PCB-66	8.92e+06	0.79	y	32:59	1.14	3810	-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.22	*	720	987	7.46	
PCB-55	6.33e+05	0.85	y	33:28	1.10	281	-	-	*	
13C-PCB-54	2.05e+07	0.81	y	25:32	1.20	8700				87.0
PCB-104	2.68e+06	1.60	y	30:00	1.25	1890	-	-	*	
PCB-96	2.16e+05	1.59	y	31:12	1.14	166	-	-	*	
PCB-103	2.28e+05	1.61	y	31:42	0.94	214	-	-	*	
PCB-100	9.79e+04	1.35	y	32:04	0.91	94.2	-	-	*	
PCB-94	9.21e+04	1.61	y	32:29	0.76	107	-	-	*	
PCB-98	*	*	n	NotFnd	0.97	*	308	344	6.48	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.97	*	308	344	6.48	Co-elute PCB 98
PCB-95	1.57e+07	1.58	y	32:59	0.80	17100	-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*	308	344	8.11	
PCB-88	1.87e+06	1.51	y	33:23	0.81	2040	-	-	*	Co-elute PCB 91
PCB-91	1.87e+06	1.51	y	33:23	0.81	2040	-	-	*	Co-elute PCB 88
PCB-121	3.69e+06	1.58	y	33:27	1.15	2830	-	-	*	
13C-PCB-104	1.14e+07	1.63	y	29:58	0.66	8840				88.4
13C-PCB-28	2.74e+07	1.07	y	26:39	1.63	8570				85.7
13C-PCB-52	1.96e+07	0.80	y	28:53	-	36.8				

PCB-56	3.38e+06	0.74	y	33:57	1.24	1280		-	-	*	Co-elute PCB 60
PCB-60	3.38e+06	0.74	y	33:57	1.24	1280		-	-	*	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.23	*		690	1020	11.8	
PCB-78	2.86e+06	0.75	y	35:41	1.13	1190		-	-	*	
PCB-81	3.83e+05	0.75	y	36:09	1.23	148		-	-	*	
13C-PCB-81	2.10e+07	0.80	y	36:09	1.35	9050					90.5
PCB-77	4.24e+05	0.80	y	36:45	1.14	171		-	-	*	
13C-PCB-77	2.17e+07	0.81	y	36:43	1.37	9160					91.6
PCB-155	4.38e+06	1.25	y	34:08	1.18	2910		-	-	*	
PCB-150	3.18e+04	1.06	y	35:23	1.01	24.5		-	-	*	
PCB-152	2.00e+04	1.23	y	35:48	1.00	15.7	J	-	-	*	
PCB-145	*	*	n	NotFnd	1.00	*		404	344	6.14	
PCB-136	1.72e+06	1.28	y	36:31	0.94	1430		-	-	*	
PCB-148	*	*	n	NotFnd	0.78	*		404	344	7.87	
PCB-154	1.23e+05	1.27	y	37:05	0.85	114		-	-	*	
13C-PCB-155	1.28e+07	1.27	y	34:07	0.84	8860					88.6
13C-PCB-111	1.98e+07	1.59	y	36:14	1.16	9870					98.7
13C-PCB-101	1.73e+07	1.60	y	34:35	-	38.0					
PCB-84	1.00e+07	1.57	y	34:15	0.68	7590		-	-	*	Co-elute PCB 92
PCB-92	1.00e+07	1.57	y	34:15	0.68	7590		-	-	*	Co-elute PCB 84
PCB-89	2.95e+05	1.63	y	34:25	0.67	226		-	-	*	
PCB-90	1.69e+07	1.59	y	34:36	0.76	11400		-	-	*	Co-elute PCB 101
PCB-101	1.69e+07	1.59	y	34:36	0.76	11400		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.85	*		889	501	11.3	
PCB-99	7.86e+06	1.60	y	34:55	0.85	4770		-	-	*	
PCB-119	6.80e+05	1.71	y	35:22	0.96	365		-	-	*	
PCB-83	1.13e+06	1.65	y	35:31	0.78	741		-	-	*	Co-elute PCB 112
PCB-112	1.13e+06	1.65	y	35:31	0.78	741		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.92	*		889	501	10.4	
PCB-97	4.40e+06	1.55	y	35:51	0.82	2770		-	-	*	
PCB-86	*	*	n	NotFnd	0.66	*		889	501	14.5	
PCB-125	7.86e+06	1.56	y	36:07	0.85	4750		-	-	*	Co-elute PCB 87/117
PCB-87	7.86e+06	1.56	y	36:07	0.85	4750		-	-	*	Co-elute PCB 125/117
PCB-117	7.86e+06	1.56	y	36:07	0.85	4750		-	-	*	Co-elute PCB 125/87
PCB-111	2.95e+05	1.38	y	36:16	1.13	134		-	-	*	Co-elute PCB 115
PCB-115	2.95e+05	1.38	y	36:16	1.13	134		-	-	*	Co-elute PCB 111
PCB-85	2.52e+06	1.53	y	36:22	0.79	1640		-	-	*	Co-elute PCB 116
PCB-116	2.52e+06	1.53	y	36:22	0.79	1640		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.93	*		889	501	10.3	
PCB-110	2.52e+07	1.57	y	36:44	1.07	12100		-	-	*	
PCB-82	1.37e+06	1.66	y	37:21	0.55	1270		-	-	*	
PCB-124	4.19e+05	1.53	y	38:00	1.03	210		-	-	*	
PCB-108	8.81e+05	1.48	y	38:10	1.17	388		-	-	*	Co-elute PCB 107
PCB-107	8.81e+05	1.48	y	38:10	1.17	388		-	-	*	Co-elute PCB 108
PCB-123	1.55e+05	1.51	y	38:19	1.34	63.1		-	-	*	
13C-PCB-123	1.83e+07	1.60	y	38:17	1.34	8050					80.5
PCB-118	9.70e+06	1.46	y	38:28	1.08	4320		-	-	*	Co-elute PCB 106
PCB-106	9.70e+06	1.46	y	38:28	1.08	4320		-	-	*	Co-elute PCB 118
13C-PCB-118	2.08e+07	1.56	y	38:28	1.45	8420					84.2
PCB-114	1.84e+05	1.62	y	39:06	1.10	85.8		-	-	*	
13C-PCB-114	1.95e+07	1.57	y	39:05	1.36	8410					84.1
PCB-122	1.17e+05	1.47	y	39:15	1.25	48.1		-	-	*	
PCB-105	3.23e+06	1.42	y	39:56	1.16	1450		-	-	*	
13C-PCB-105	1.93e+07	1.58	y	39:54	1.38	8200					82.0

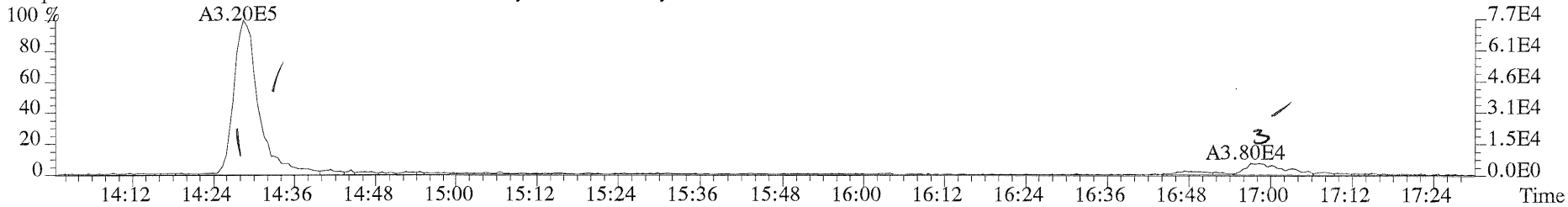
PCB-127	*	*	n	NotFnd	1.07	*	632	948	10.1		
PCB-126	*	*	n	NotFnd	1.17	*	632	948	12.5		
13C-PCB-126	1.99e+07	1.60	y	42:06	1.27	9230				92.3	
PCB-151	2.02e+06	1.25	y	37:44	0.89	1240	-	-	*		
PCB-135	1.40e+06	1.28	y	37:56	0.81	944	-	-	*		
PCB-144	5.53e+05	1.36	y	38:02	1.04	290	-	-	*		
PCB-147	2.66e+05	1.15	y	38:10	0.96	150	-	-	*		
PCB-139	8.16e+06	1.29	y	38:24	0.98	4530	-	-	*	Co-elute PCB 149	
PCB-149	8.16e+06	1.29	y	38:24	0.98	4530	-	-	*	Co-elute PCB 139	
PCB-140	1.09e+05	1.09	y	38:35	0.96	61.6	-	-	*		
PCB-143	7.05e+05	1.25	y	39:00	0.89	432	-	-	*	Co-elute PCB 134	
PCB-134	7.05e+05	1.25	y	39:00	0.89	432	-	-	*	Co-elute PCB 143	
PCB-131	2.61e+05	1.24	y	39:16	0.91	156	-	-	*	Co-elute PCB 133	
PCB-133	2.61e+05	1.24	y	39:16	0.91	156	-	-	*	Co-elute PCB 131	
PCB-142	3.26e+06	1.27	y	39:26	0.79	2250	-	-	*		
PCB-165	1.21e+06	1.24	y	39:39	1.07	613	-	-	*	Co-elute PCB 146	
PCB-146	1.21e+06	1.24	y	39:39	1.07	613	-	-	*	Co-elute PCB 165	
PCB-161	3.36e+06	1.25	y	39:54	1.01	1820	-	-	*	Co-elute PCB 132	
PCB-132	3.36e+06	1.25	y	39:54	1.01	1820	-	-	*	Co-elute PCB 161	
PCB-153	7.38e+06	1.30	y	40:02	1.05	3850	-	-	*		
PCB-168	*	*	n	NotFnd	1.18	*	1320	1030	14.3		
PCB-141	1.29e+06	1.31	y	40:43	0.89	798	-	-	*		
PCB-137	4.57e+05	1.31	y	41:06	0.85	293	-	-	*		
PCB-130	5.92e+05	1.30	y	41:11	0.79	408	-	-	*		
PCB-138	8.91e+06	1.27	y	41:33	1.19	4090	-	-	*	Co-elute PCB 163/164	
PCB-163	8.91e+06	1.27	y	41:33	1.19	4090	-	-	*	Co-elute PCB 138/164	
PCB-164	8.91e+06	1.27	y	41:33	1.19	4090	-	-	*	Co-elute PCB 138/163	
PCB-158	1.27e+06	1.22	y	41:46	1.18	589	-	-	*	Co-elute PCB 160	
PCB-160	1.27e+06	1.22	y	41:46	1.18	589	-	-	*	Co-elute PCB 158	
PCB-129	3.84e+05	1.19	y	42:01	0.73	286	-	-	*		
PCB-166	4.70e+04	1.14	y	42:27	1.11	23.2	-	-	*		
PCB-159	5.10e+04	1.23	y	42:47	1.20	23.1	-	-	*		
PCB-128	1.44e+06	1.26	y	43:02	1.00	787	-	-	*	Co-elute PCB 162	
PCB-162	1.44e+06	1.26	y	43:02	1.00	787	-	-	*	Co-elute PCB 128	
PCB-167	3.13e+05	1.20	y	43:25	1.06	159	-	-	*		
13C-PCB-167	1.85e+07	1.23	y	43:23	1.15	9520				95.2	
PCB-156	6.72e+05	1.32	y	44:39	1.12	335	-	-	*		
13C-PCB-156	1.79e+07	1.28	y	44:37	1.10	9560				95.6	
PCB-157	2.01e+05	1.42	y	44:54	1.13	93.6	-	-	*		
13C-PCB-157	1.90e+07	1.25	y	44:54	1.13	9900				99.0	
PCB-169	*	*	n	NotFnd	1.07	*	1320	1030	15.6		
13C-PCB-169	1.79e+07	1.26	y	46:49	1.05	10000				100	

FAL ID: 10146-011-0001-SA Filename: 19SEP16Z Sam:18 Acquired: 20-SEP-16 06:30:36 ICal: DAILY209FAL4-9-19-16
Client ID: LDW-BA-IN-ENR-CB-S010 ConCal: ST091916Z2 EndCal: ST091916Z3
Results: 10146 GC Column: DB1 Amount: 1.000

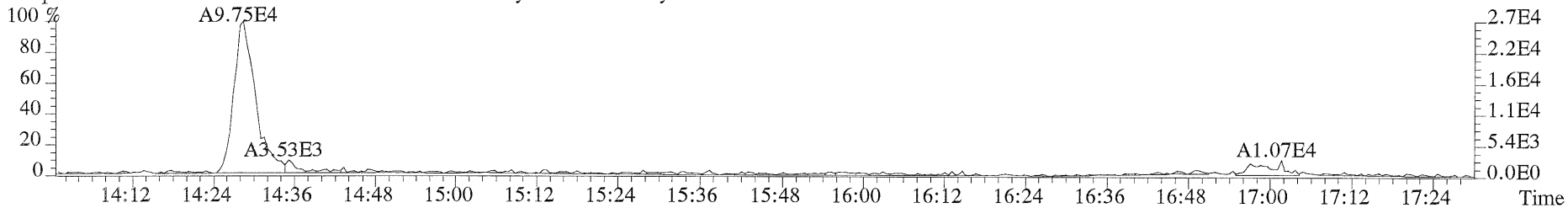
PCB-188	*	*	n	NotFnd	1.25	*	868	800	10.0		
13C-PCB-188	1.44e+07	1.10	y	39:38	0.94	9020				90.2	
PCB-184	6.72e+06	1.05	y	40:06	1.39	3670	-	-	*		
PCB-179	5.15e+05	1.11	y	40:50	1.31	300	-	-	*		
PCB-176	1.47e+05	1.16	y	41:16	1.28	87.8	-	-	*		
PCB-186	*	*	n	NotFnd	1.28	*	468	400	5.55		
PCB-178	1.28e+05	0.97	y	42:19	0.89	110	-	-	*		
PCB-175	2.46e+04	1.13	y	42:39	0.93	20.0	-	-	*		
PCB-187	7.89e+05	1.14	y	42:47	1.02	592	-	-	*	Co-elute PCB 182	
PCB-182	7.89e+05	1.14	y	42:47	1.02	592	-	-	*	Co-elute PCB 187	
PCB-183	4.02e+05	1.03	y	43:07	1.02	300	-	-	*		
PCB-185	6.82e+04	1.12	y	43:45	0.91	56.8	-	-	*		
PCB-174	6.00e+05	1.09	y	44:04	0.94	487	-	-	*		
PCB-181	*	*	n	NotFnd	0.87	*	468	400	8.11		
PCB-177	3.36e+05	0.98	y	44:21	0.80	319	-	-	*		
PCB-171	1.67e+05	1.16	y	44:37	0.89	142	-	-	*		
PCB-173	2.10e+04	1.12	y	45:00	0.79	20.2	-	-	*		
PCB-172	1.78e+05	1.03	y	45:23	0.80	170	-	-	*		
PCB-192	3.93e+06	1.06	y	45:36	1.09	2750	-	-	*		
PCB-180	1.01e+06	1.03	y	45:48	1.06	725	-	-	*		
PCB-193	8.65e+04	0.94	y	45:56	1.16	56.5	-	-	*		
PCB-191	3.80e+04	0.95	y	46:09	1.11	26.1	-	-	*		
PCB-170	4.13e+05	1.09	y	47:05	0.77	409	-	-	*		
PCB-190	1.19e+05	1.01	y	47:15	1.07	84.7	-	-	*		
PCB-189	*	*	n	NotFnd	1.23	*	468	400	6.35		
13C-PCB-189	1.19e+07	1.09	y	48:29	0.70	10000				100	
PCB-202	3.21e+04	0.91	y	44:47	1.05	35.6	-	-	*		
PCB-201	*	*	n	NotFnd	1.05	*	352	332	8.12		
PCB-204	4.82e+06	0.91	y	45:23	1.05	5320	-	-	*		
PCB-197	4.81e+04	0.84	y	45:40	1.09	51.4	-	-	*		
PCB-200	*	*	n	NotFnd	1.01	*	352	332	8.47		
PCB-198	*	*	n	NotFnd	0.70	*	352	332	12.2		
PCB-199	8.22e+04	0.91	y	47:43	0.70	137	-	-	*		
PCB-203	9.00e+04	0.80	y	47:58	0.78	134	-	-	*	Co-elute PCB 196	
PCB-196	9.00e+04	0.80	y	47:58	0.78	134	-	-	*	Co-elute PCB 203	
13C-PCB-202	8.63e+06	0.93	y	44:45	0.57	8950				89.5	
13C-PCB-178	1.06e+07	1.09	y	42:17	0.60	10400				104	
13C-PCB-138	1.70e+07	1.26	y	41:31	-	39.0					
PCB-195	3.74e+04	0.81	y	49:06	0.74	31.9	-	-	*		
PCB-194	9.15e+04	0.98	y	49:56	0.82	70.2	-	-	*		
PCB-205	*	*	n	NotFnd	1.07	*	612	696	5.96		
13C-PCB-205	1.59e+07	0.90	y	50:11	1.27	9940				99.4	
PCB-208	*	*	n	NotFnd	1.03	*	616	696	8.23		
13C-PCB-208	1.39e+07	0.80	y	49:12	1.14	9650				96.5	
PCB-207	4.02e+04	1.36	y	49:32	1.15	29.8	-	-	*		
PCB-206	2.53e+04	1.30	y	51:27	1.04	25.0	-	-	*		
13C-PCB-206	9.69e+06	0.81	y	51:27	0.75	10200				102	
PCB-209	4.55e+04	1.02	y	52:44	1.16	32.0	-	-	*		
13C-PCB-209	1.23e+07	1.26	y	52:43	0.93	10600				106	
13C-PCB-194	1.26e+07	0.93	y	49:56	-	33.8					

Analyst: _____ Date: 9/22/16

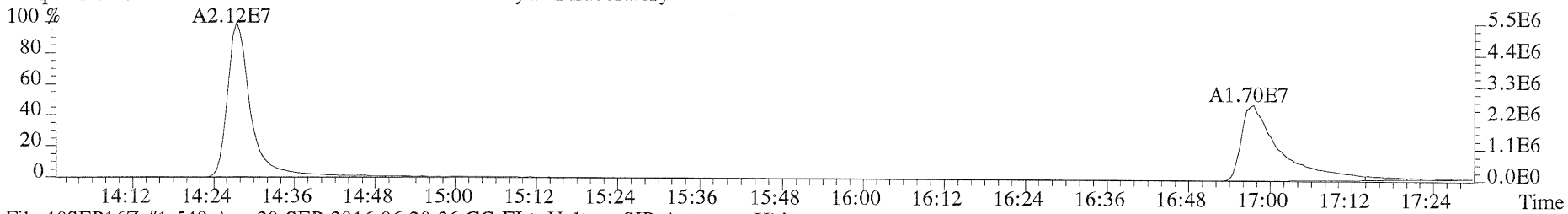
File:19SEP16Z #1-549 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:18 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



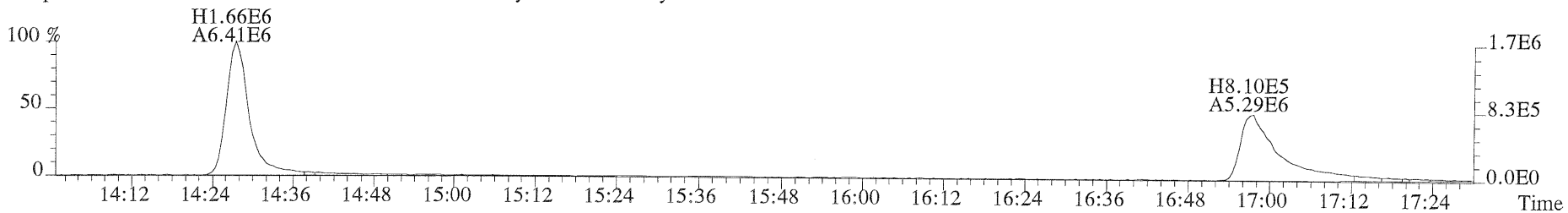
File:19SEP16Z #1-549 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:18 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



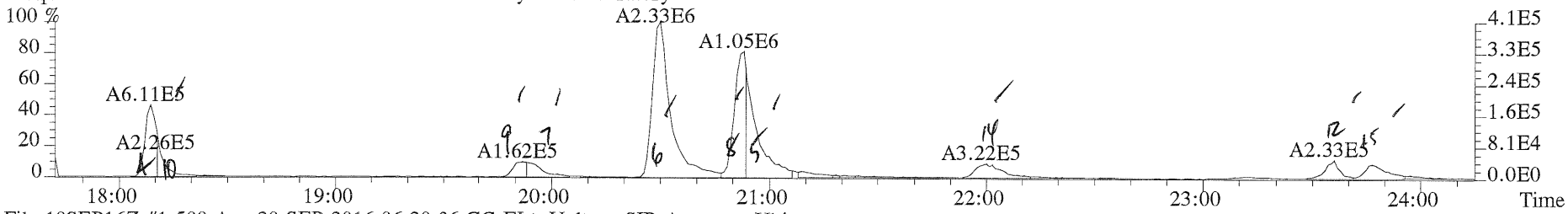
File:19SEP16Z #1-549 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:18 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



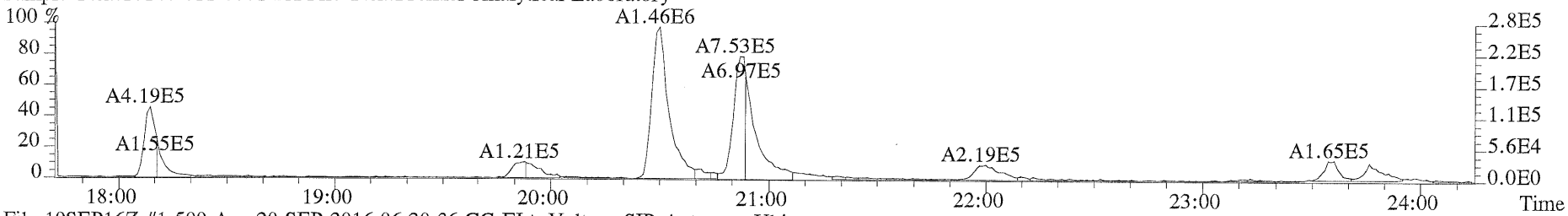
File:19SEP16Z #1-549 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:18 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



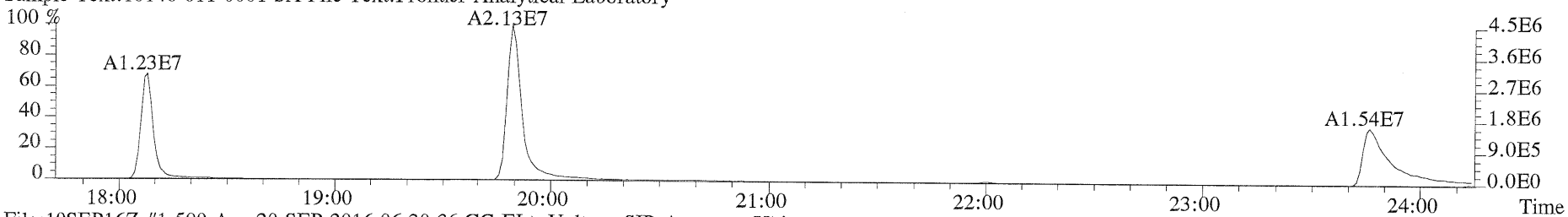
File:19SEP16Z #1-509 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:18 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



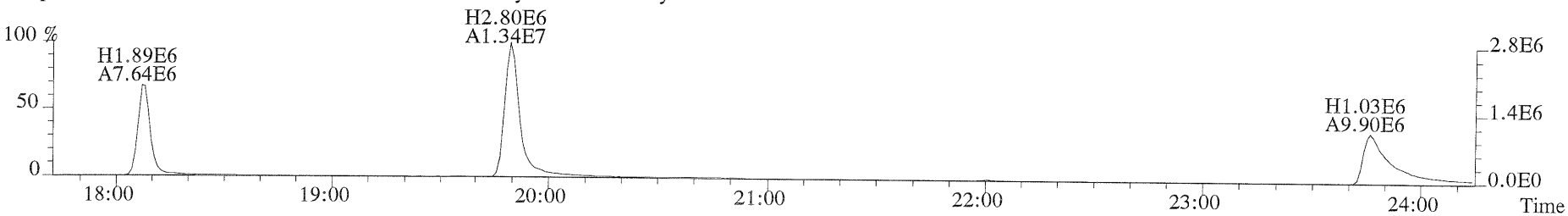
File:19SEP16Z #1-509 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:18 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



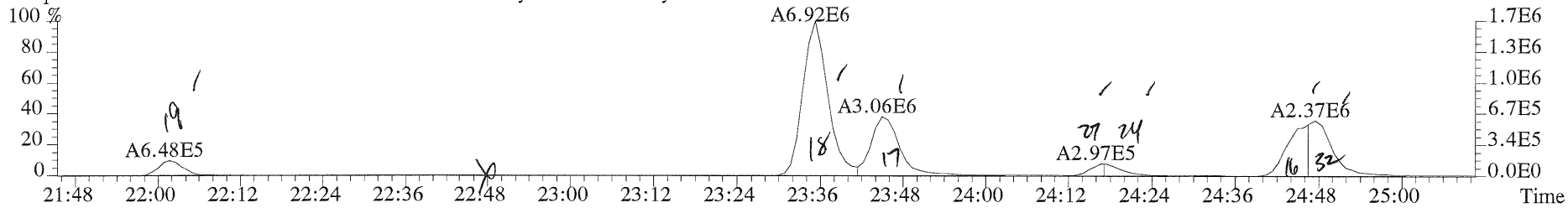
File:19SEP16Z #1-509 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:18 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



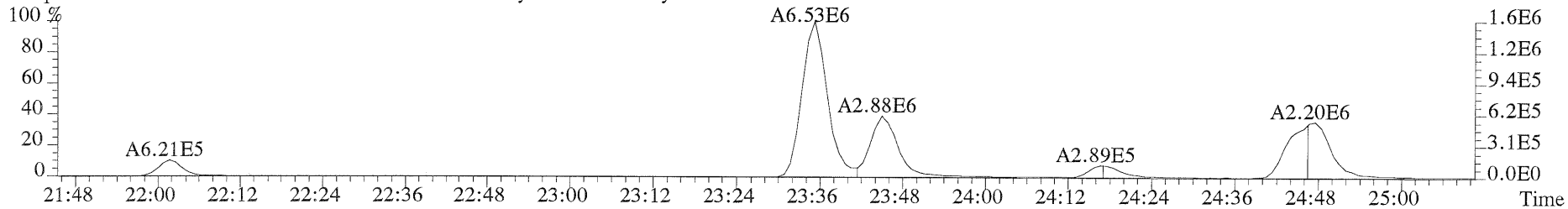
File:19SEP16Z #1-509 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:18 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



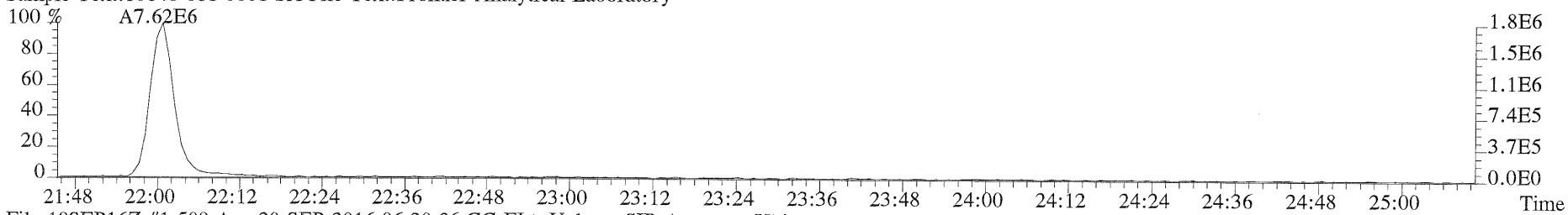
File:19SEP16Z #1-509 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:18 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



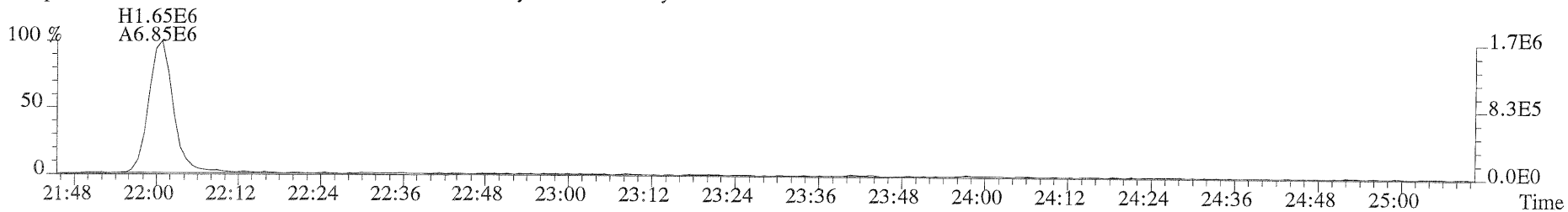
File:19SEP16Z #1-509 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:18 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



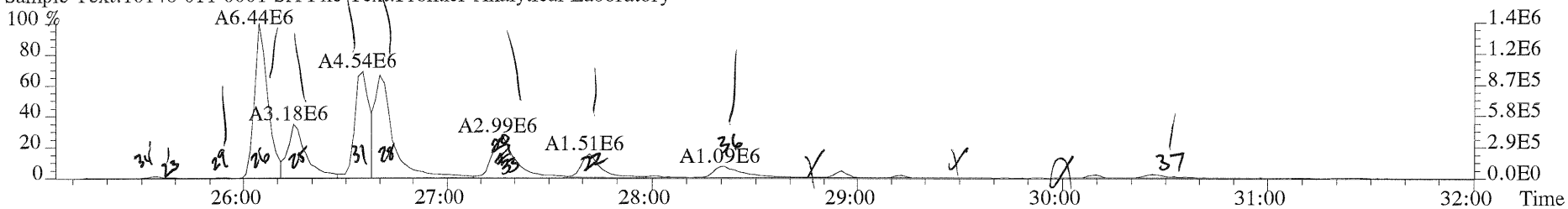
File:19SEP16Z #1-509 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:18 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



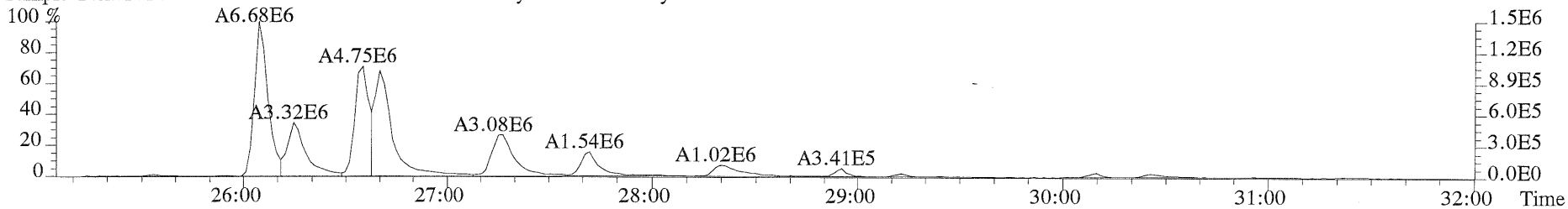
File:19SEP16Z #1-509 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:18 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



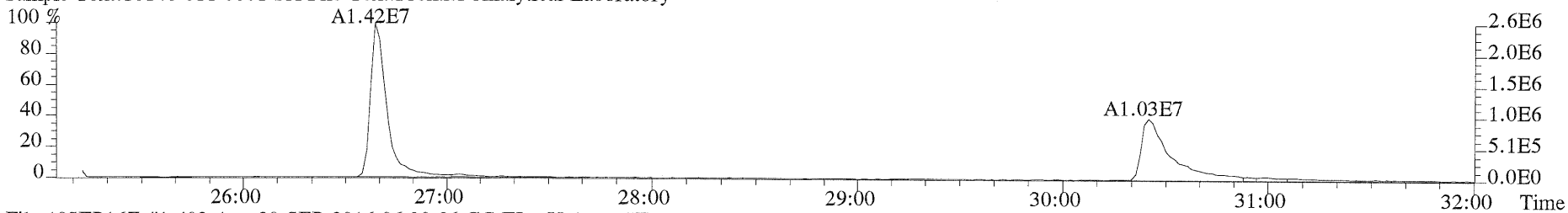
File:19SEP16Z #1-403 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



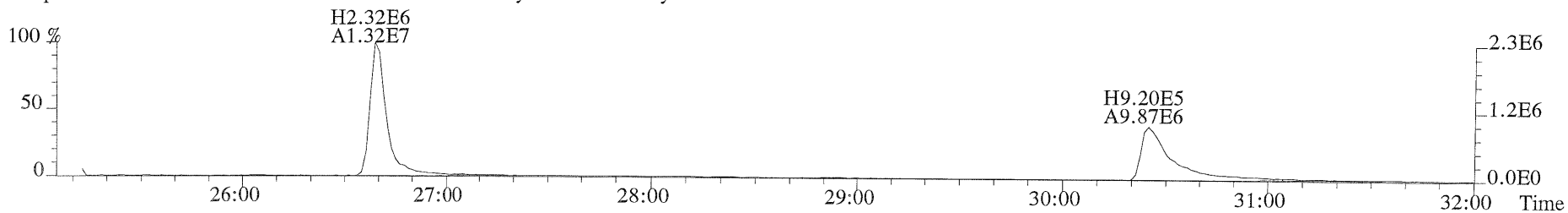
File:19SEP16Z #1-403 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



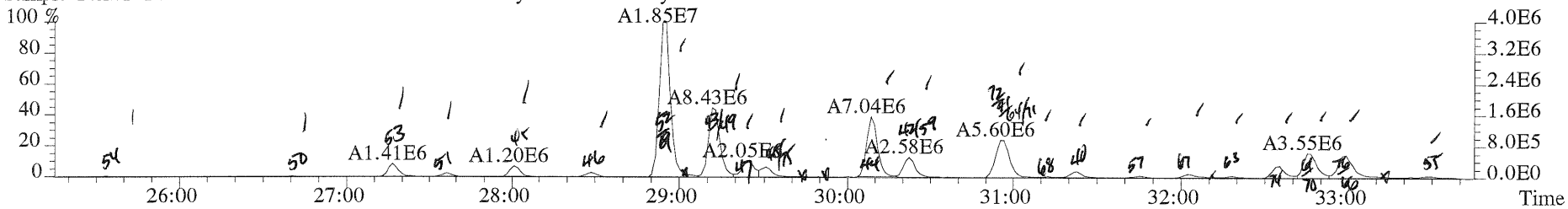
File:19SEP16Z #1-403 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



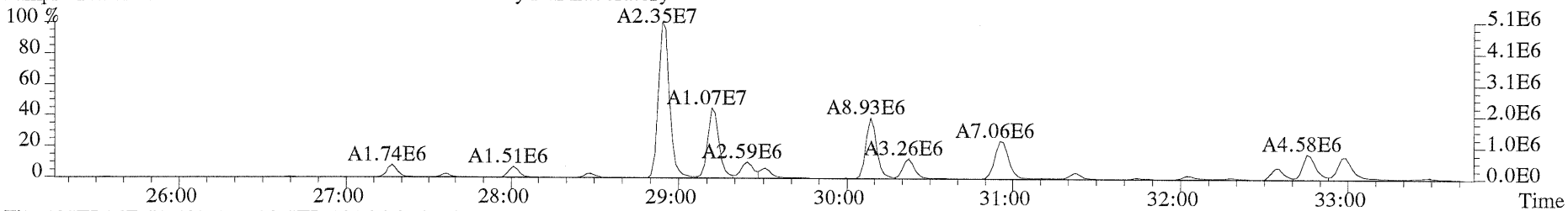
File:19SEP16Z #1-403 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



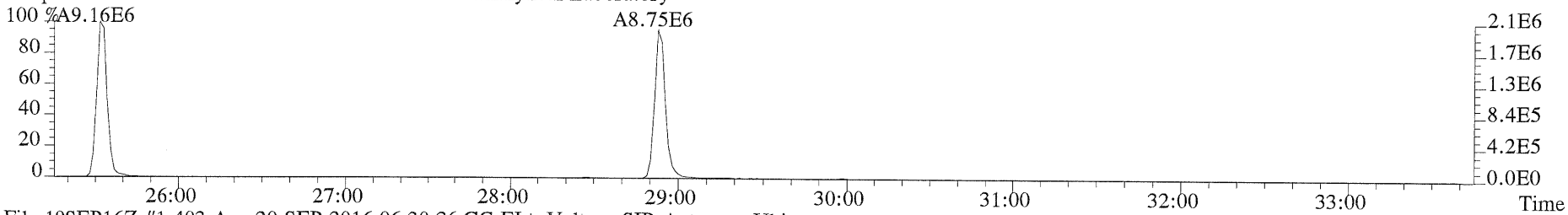
File:19SEP16Z #1-403 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



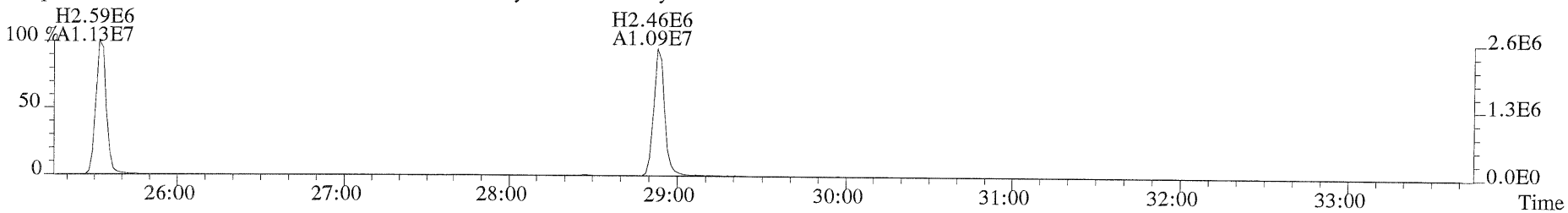
File:19SEP16Z #1-403 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



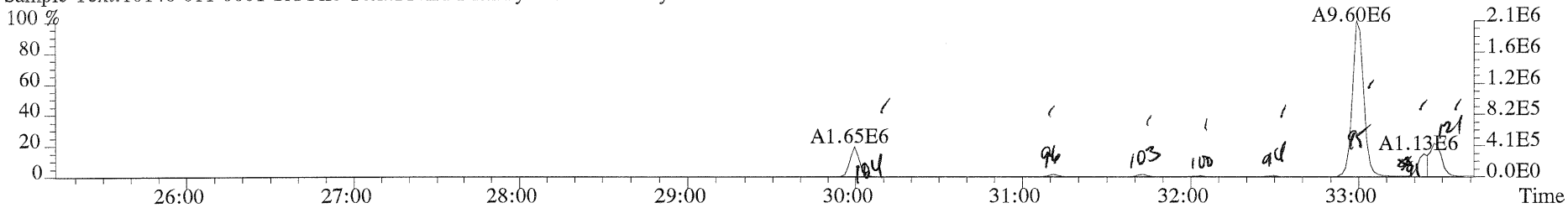
File:19SEP16Z #1-403 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



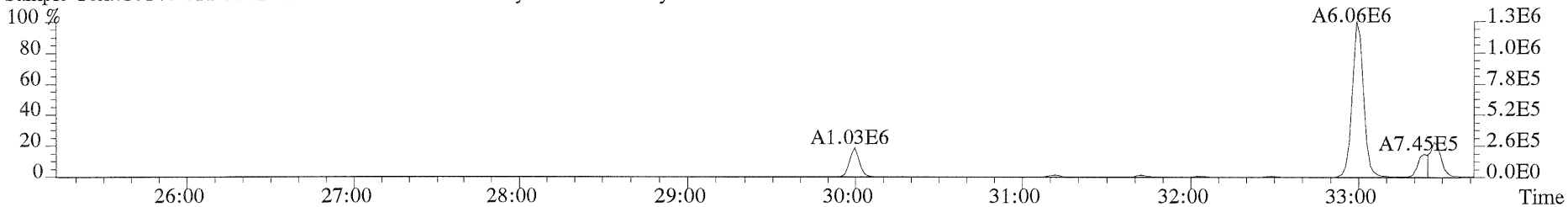
File:19SEP16Z #1-403 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



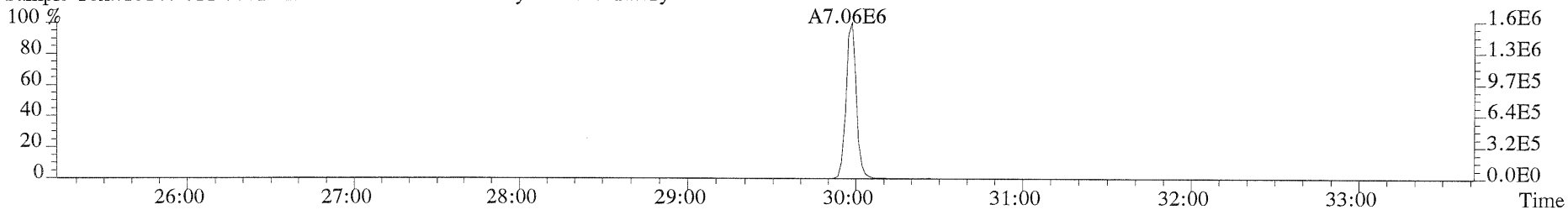
File:19SEP16Z #1-403 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:18 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



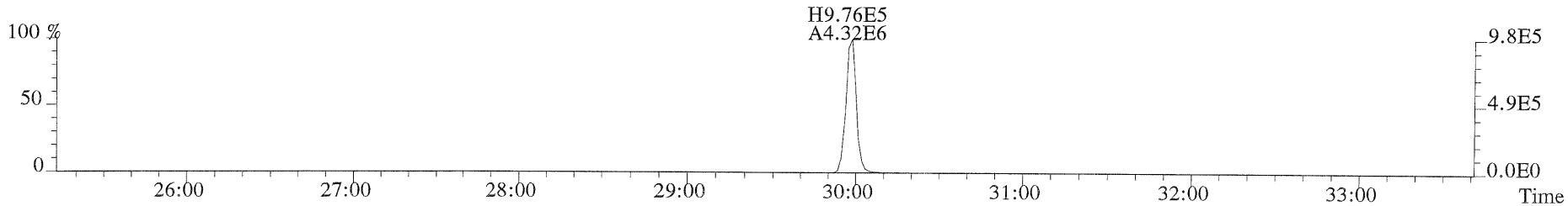
File:19SEP16Z #1-403 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:18 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



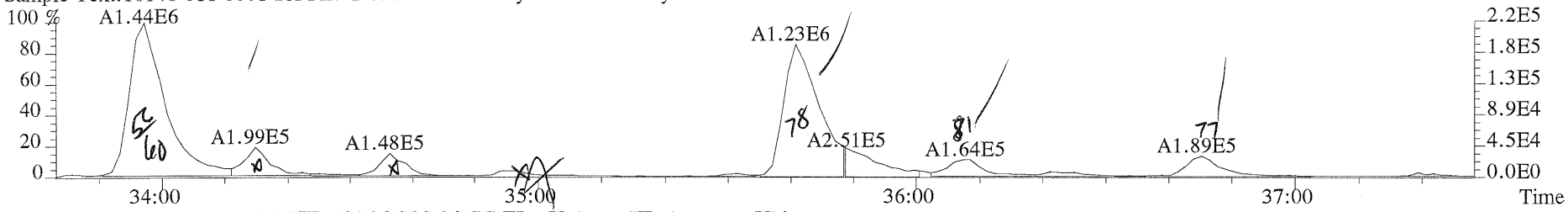
File:19SEP16Z #1-403 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:18 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



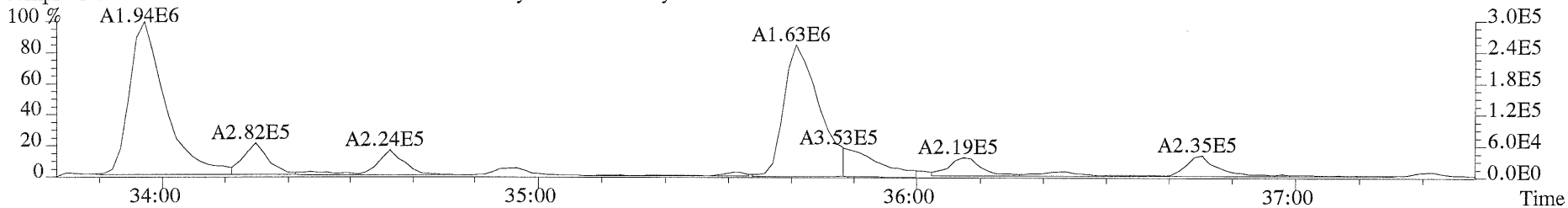
File:19SEP16Z #1-403 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:18 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



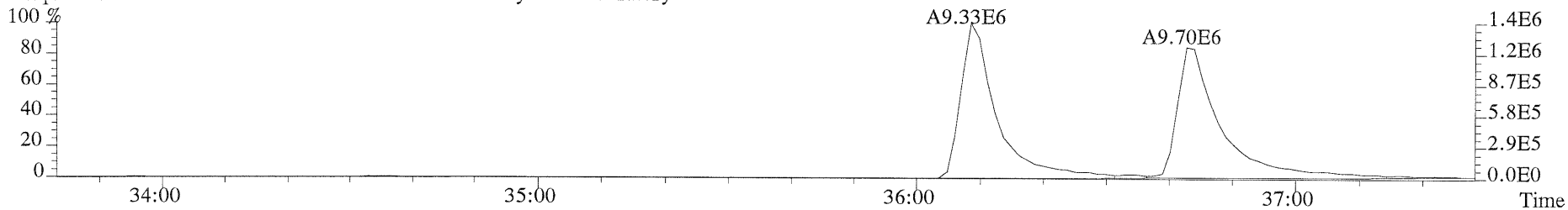
File:19SEP16Z #1-179 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:18 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



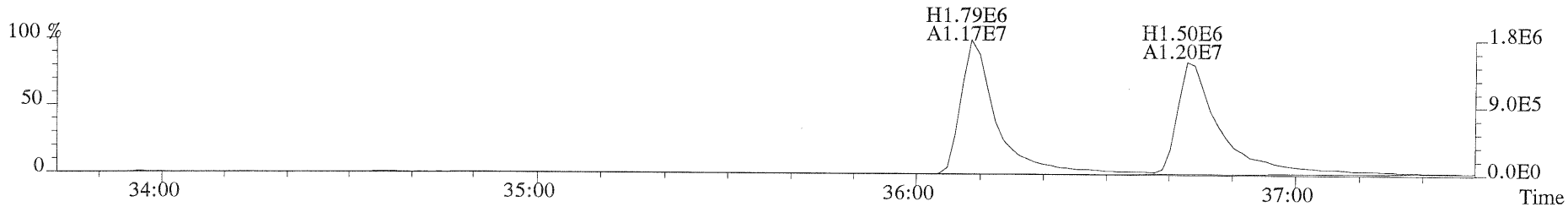
File:19SEP16Z #1-179 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:18 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



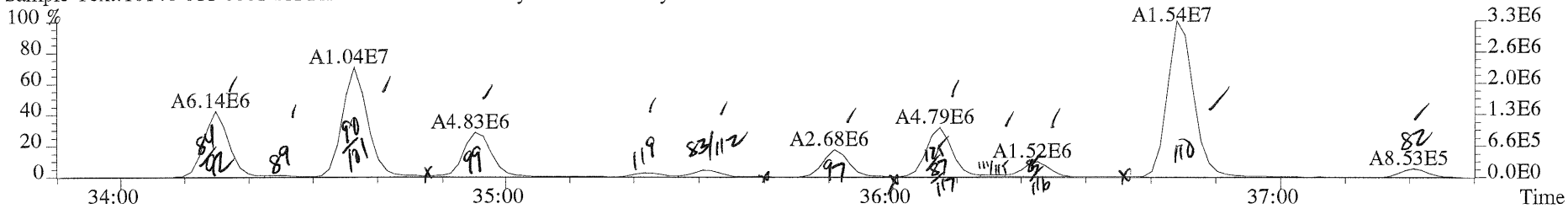
File:19SEP16Z #1-179 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:18 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



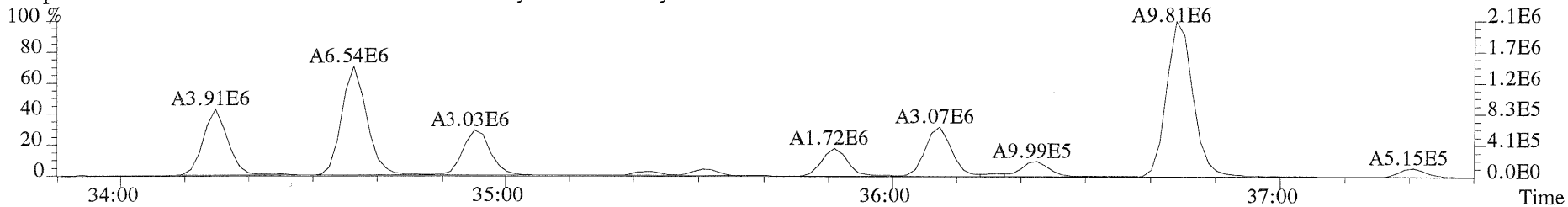
File:19SEP16Z #1-179 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:18 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



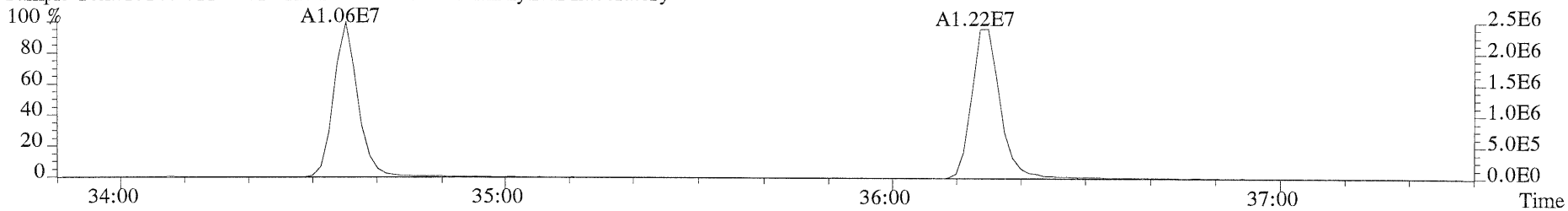
File:19SEP16Z #1-179 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:18 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:18 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:18 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



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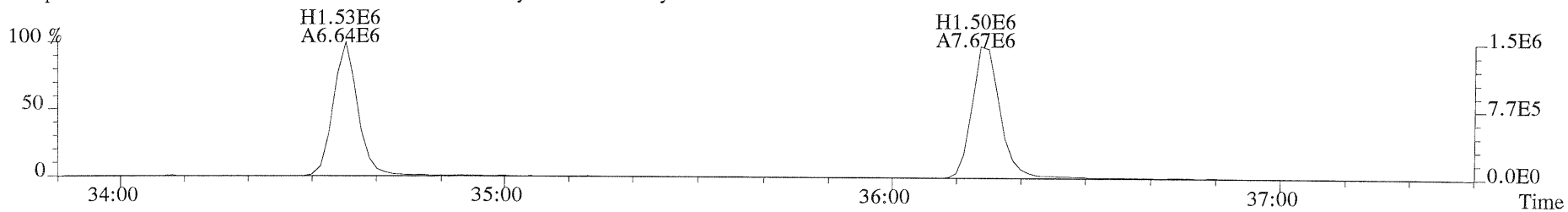
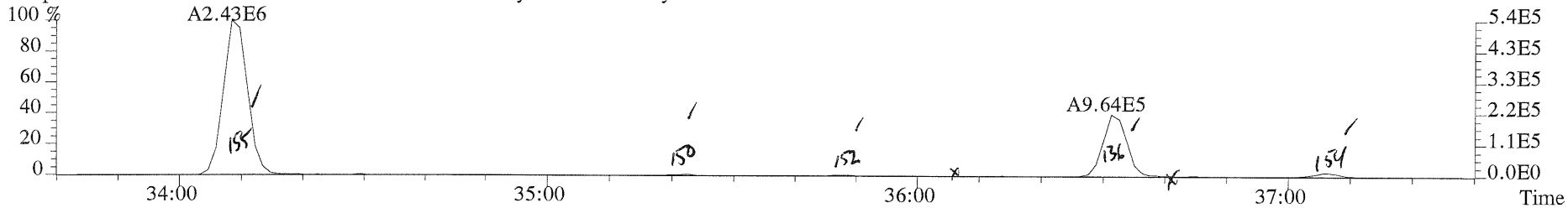
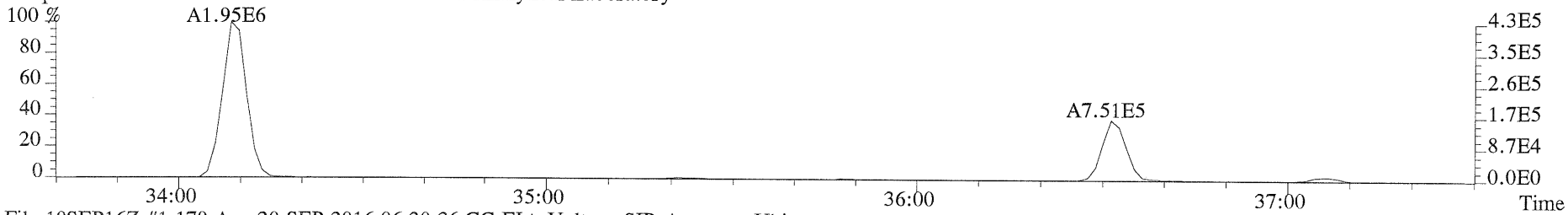
339.9178 S:18 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



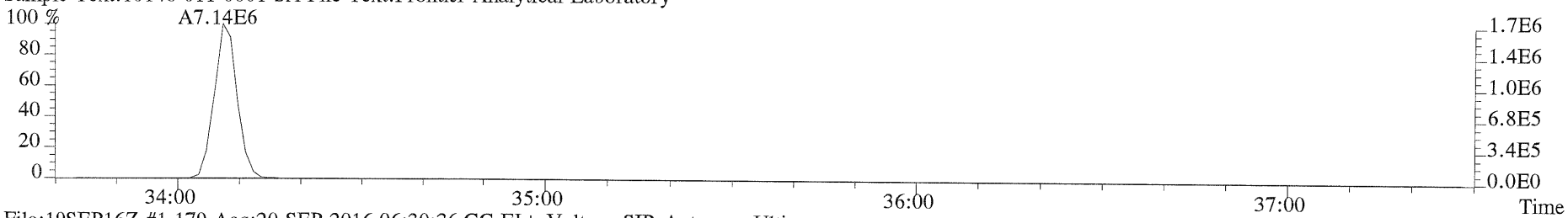
File:19SEP16Z #1-179 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:18 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:18 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:18 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



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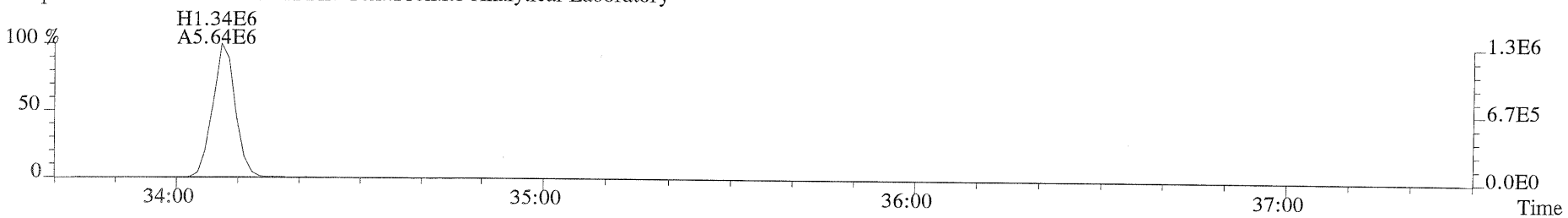
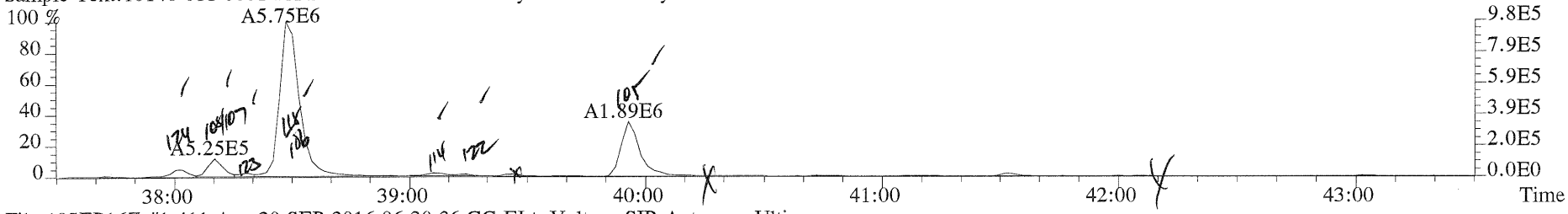
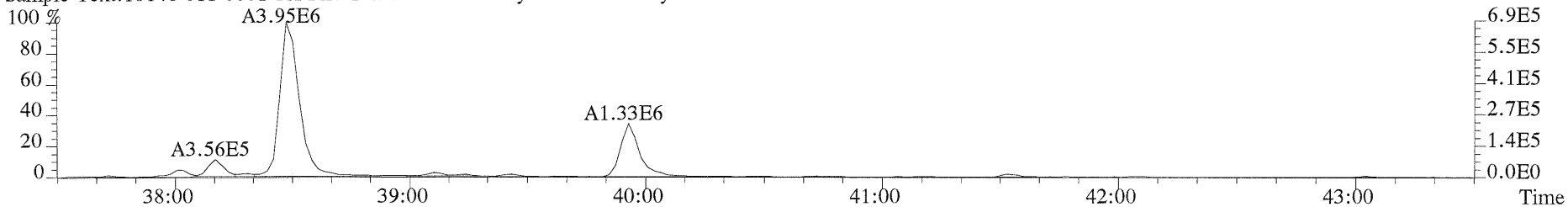
373.8788 S:18 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



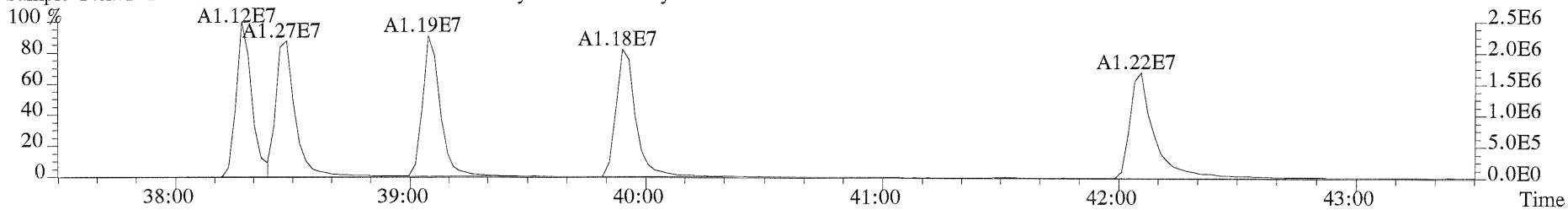
File:19SEP16Z #1-411 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



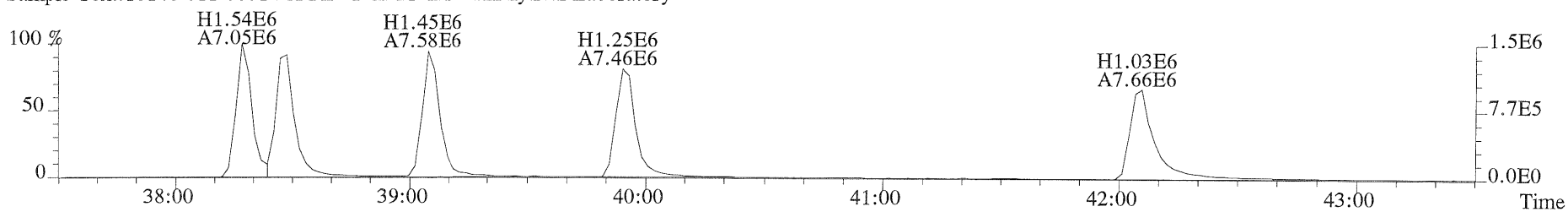
File:19SEP16Z #1-411 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



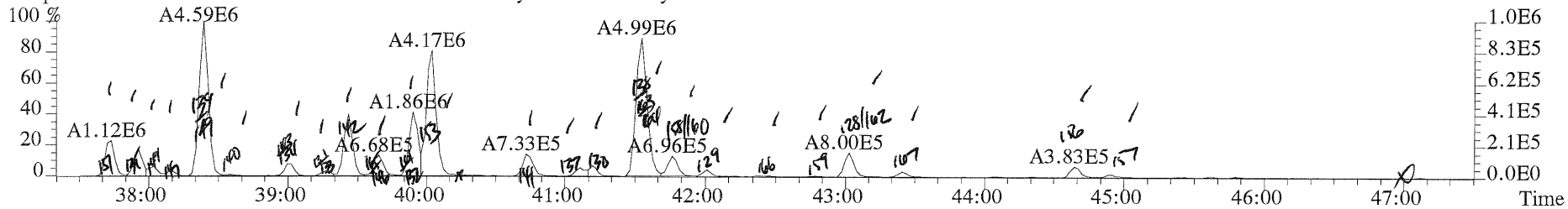
File:19SEP16Z #1-411 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



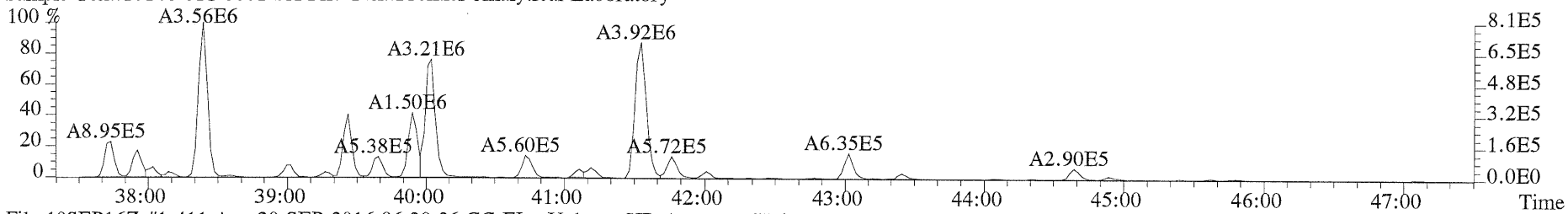
File:19SEP16Z #1-411 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



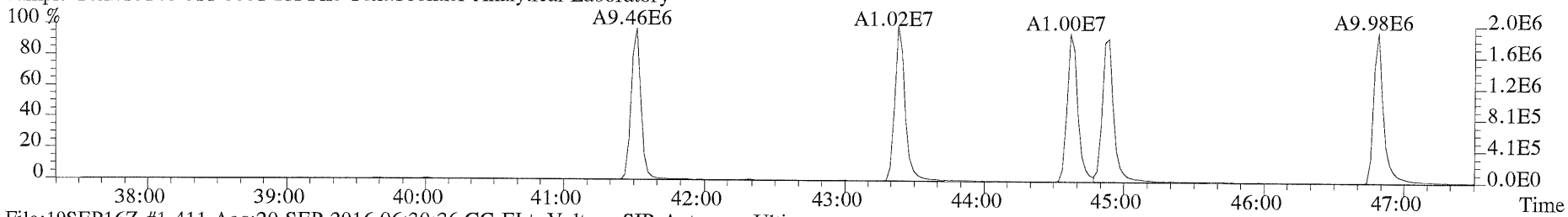
File:19SEP16Z #1-411 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



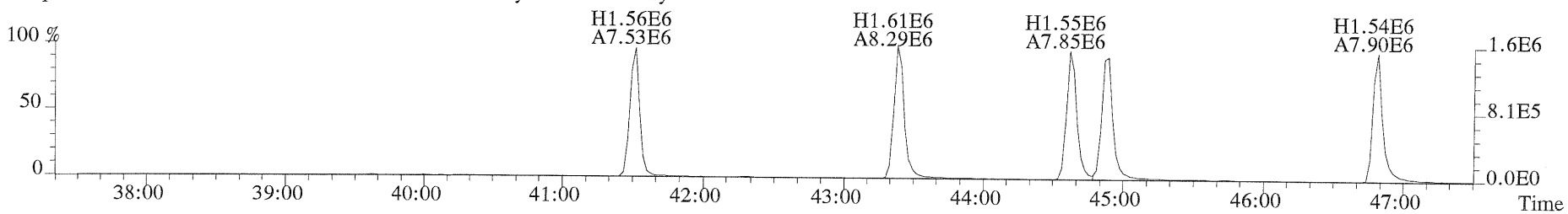
File:19SEP16Z #1-411 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



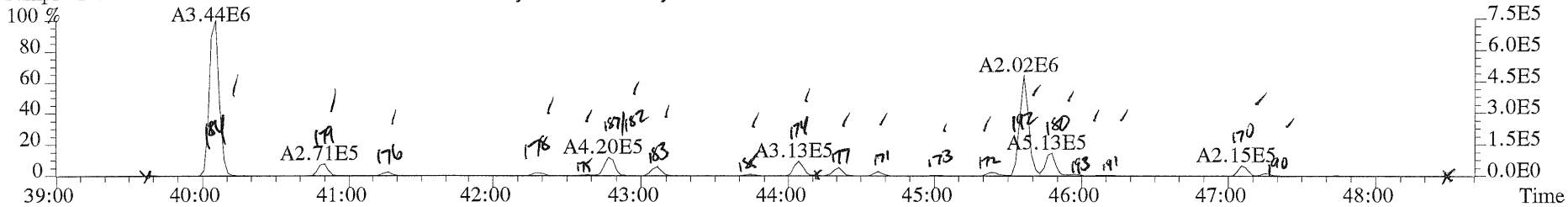
File:19SEP16Z #1-411 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



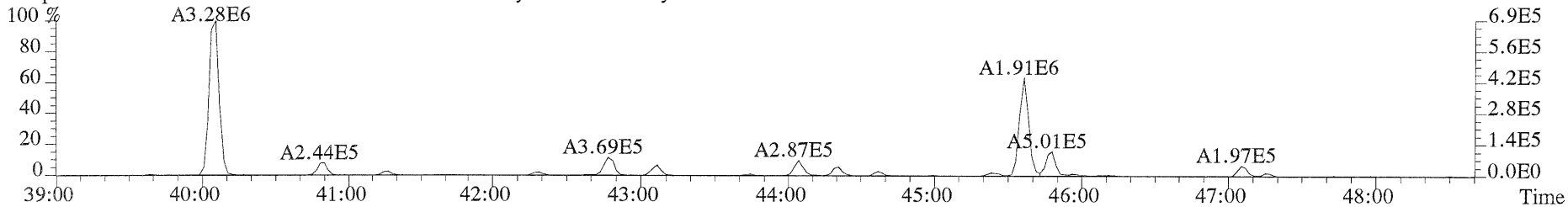
File:19SEP16Z #1-411 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



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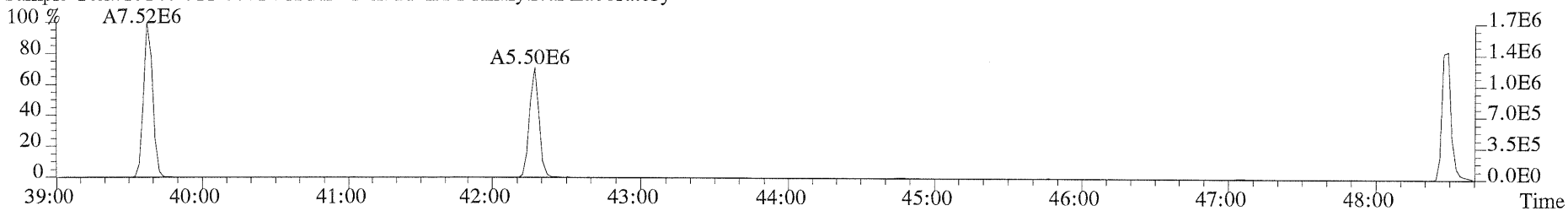
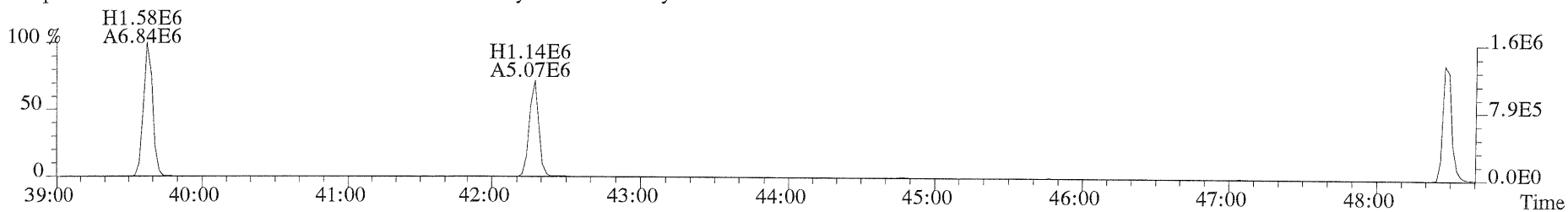
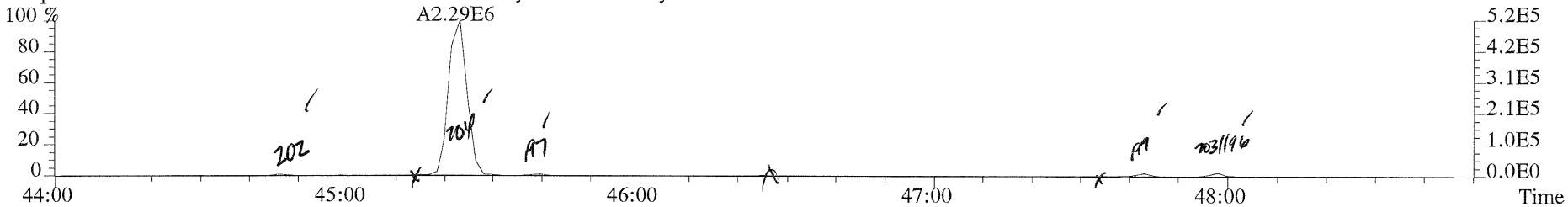
405.8428 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



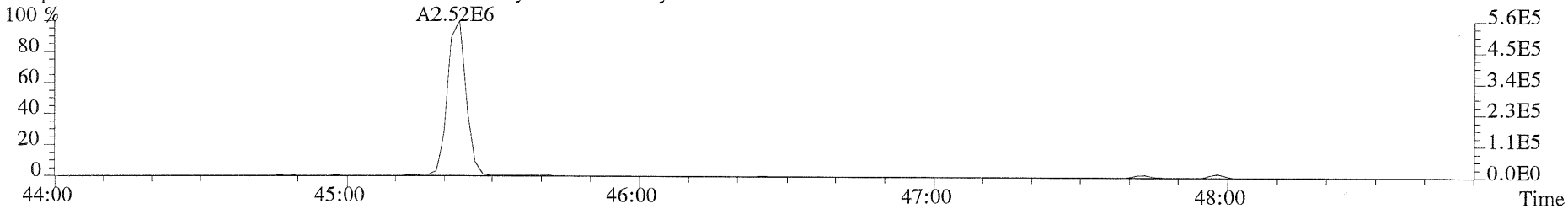
File:19SEP16Z #1-411 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



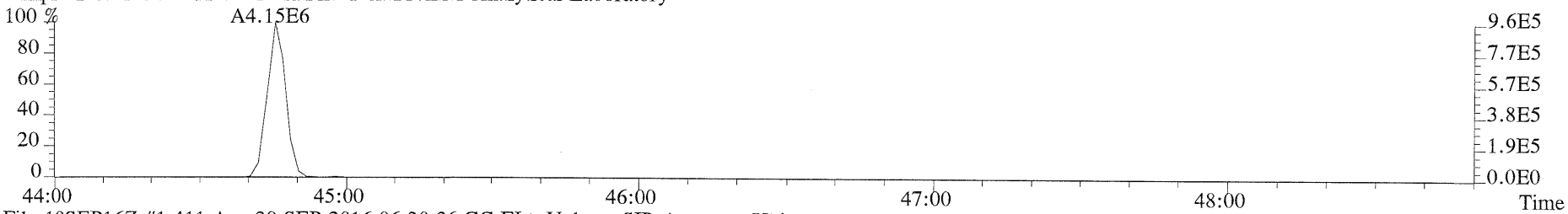
File:19SEP16Z #1-411 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



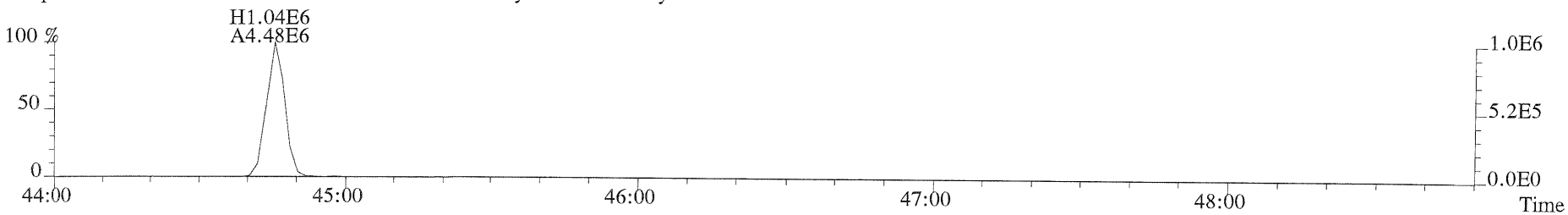
File:19SEP16Z #1-411 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



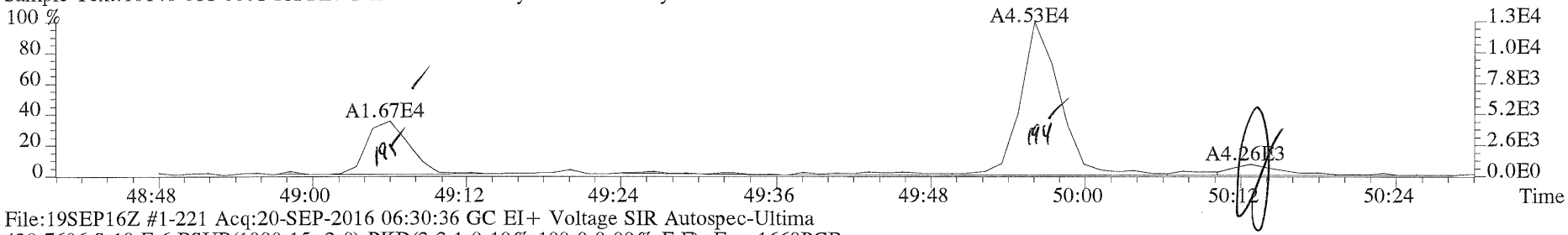
File:19SEP16Z #1-411 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



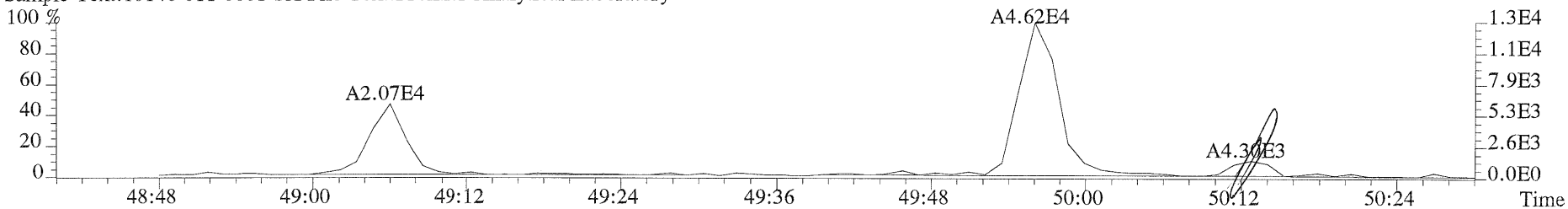
File:19SEP16Z #1-411 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



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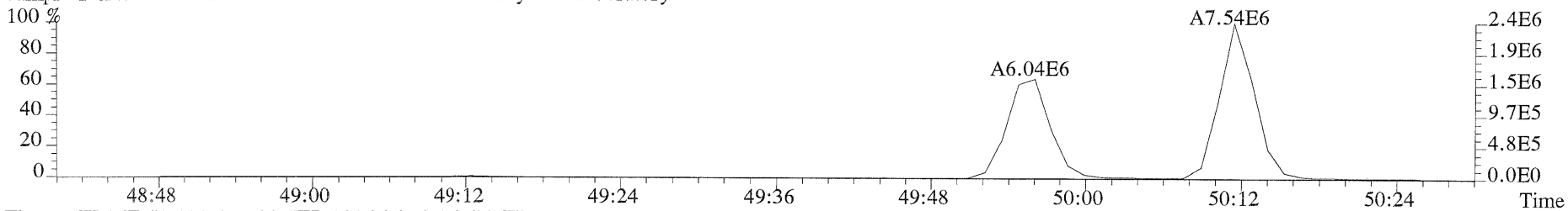
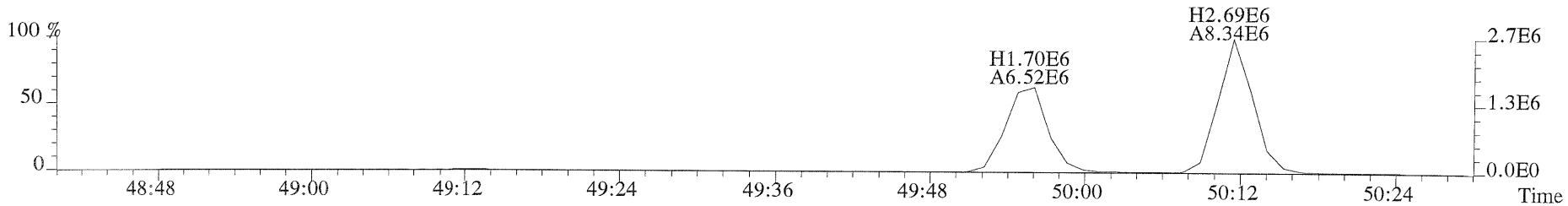
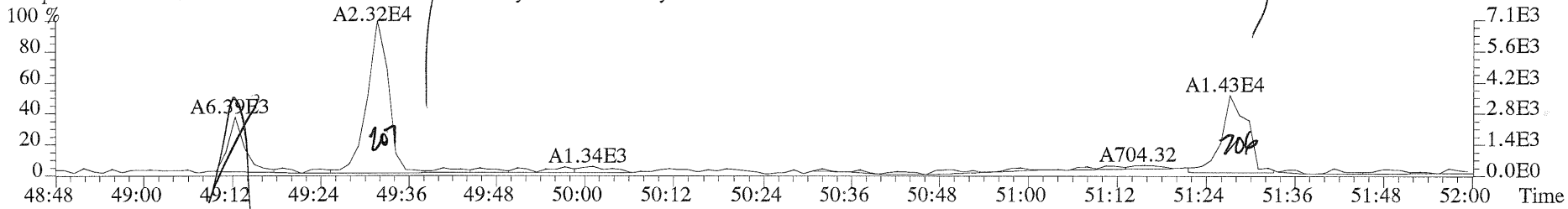
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



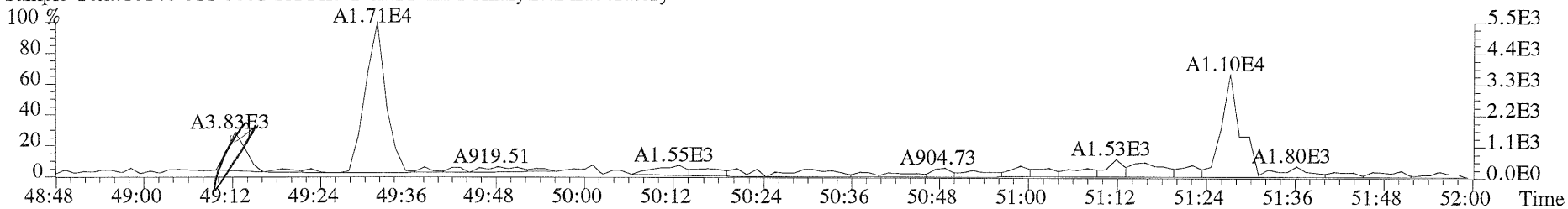
File:19SEP16Z #1-221 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



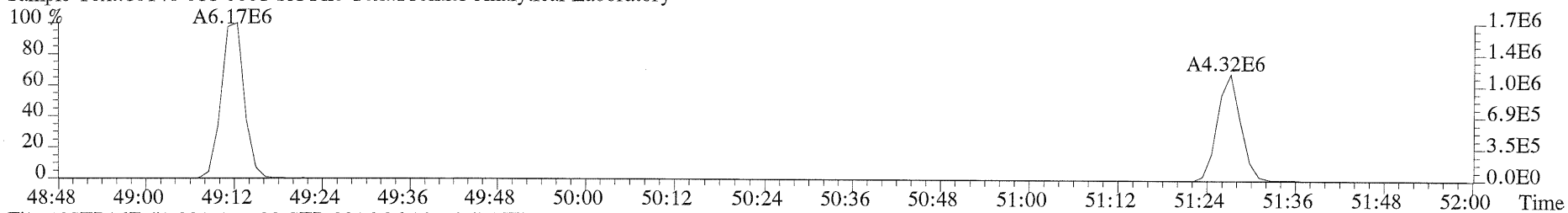
File:19SEP16Z #1-221 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:18 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



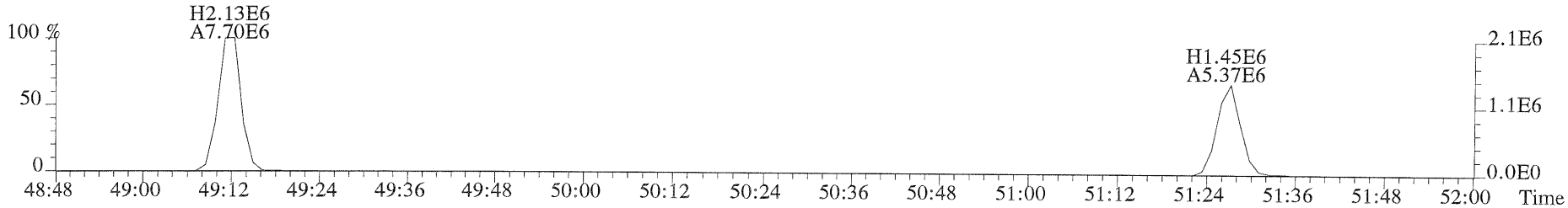
File:19SEP16Z #1-221 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:18 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



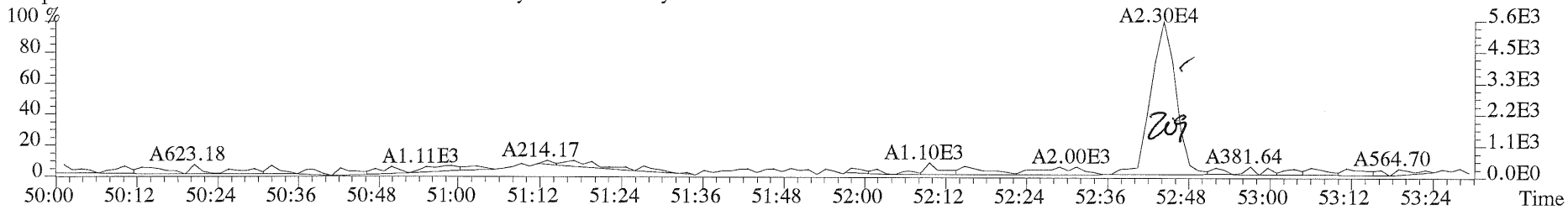
File:19SEP16Z #1-221 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:18 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



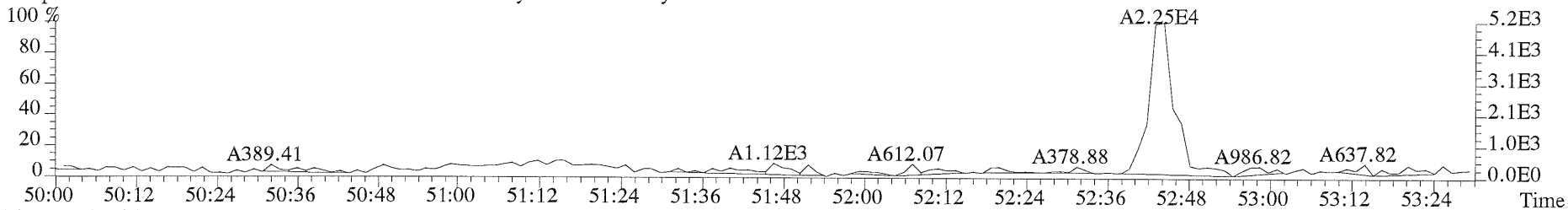
File:19SEP16Z #1-221 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:18 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



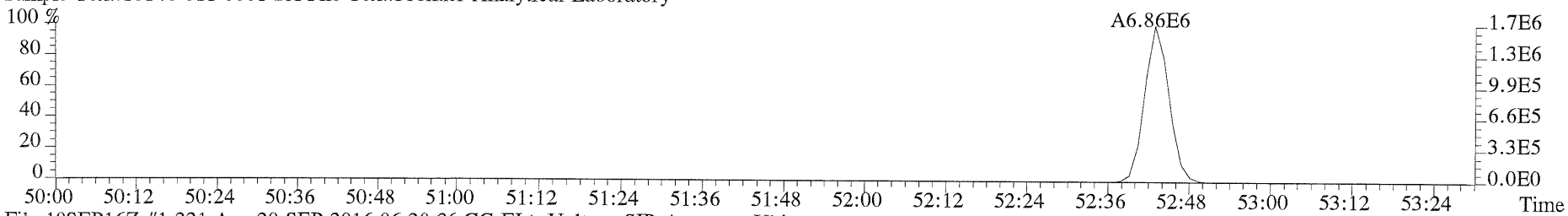
File:19SEP16Z #1-221 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



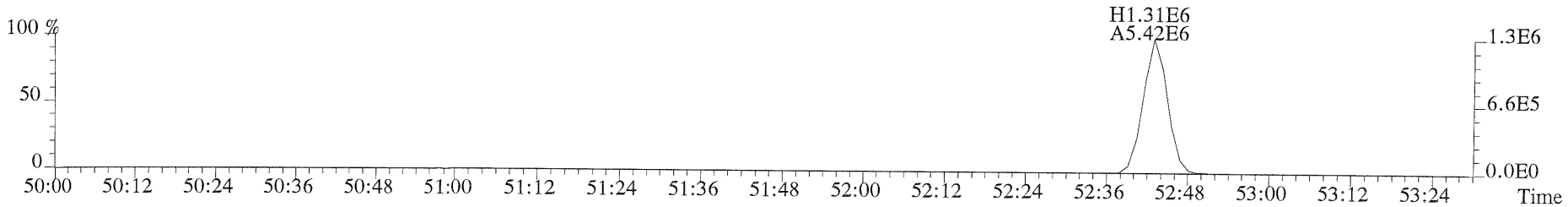
File:19SEP16Z #1-221 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:20-SEP-2016 06:30:36 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-011-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10146-012-0001-SA Filename: 19SEP16Z Sam:19 Acquired: 20-SEP-16 07:27:04 ICal: DAILY209FAL4-9-19-16
Client ID: LDW-BA-IN-ENR-CC-S010 ConCal: ST091916Z2 EndCal: ST091916Z3
Results: 10146 GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	
PCB-1	8.60e+05	3.11 y	14:28	1.12	292		-	-	*		
13C-PCB-1	2.64e+07	3.19 y	14:27	0.94	7850					78.5	
PCB-2	*	* n	NotFnd	0.91	*		640	540	6.96		
PCB-3	7.04e+04	3.47 y	16:59	1.28	25.1		-	-	*		
13C-PCB-3	2.19e+07	3.24 y	16:56	0.80	7600					76.0	
PCB-4	8.75e+05	1.49 y	18:08	1.14	392		-	-	*		
PCB-10	2.54e+05	1.34 y	18:11	1.32	84.6		-	-	*		
13C-PCB-4	1.96e+07	1.56 y	18:07	0.63	8730					87.3	
PCB-9	1.93e+05	1.41 y	19:51	1.35	62.9		-	-	*		
PCB-7	2.88e+05	1.56 y	19:54	1.51	84.4		-	-	*		
PCB-6	1.27e+06	1.49 y	20:30	1.47	379		-	-	*		
PCB-8	1.33e+06	1.46 y	20:52	1.28	459		-	-	*		
PCB-5	1.16e+06	1.54 y	20:54	1.55	331		-	-	*		
PCB-14	3.05e+05	1.61 y	21:59	1.38	97.6		-	-	*		
PCB-11	*	* n	NotFnd	1.14	*		1030	1050	14.4		
PCB-13	*	* n	NotFnd	1.15	*		1030	1050	14.2		
PCB-12	2.17e+05	1.35 y	23:34	1.29	74.2		-	-	*		
PCB-15	3.53e+05	1.44 y	23:47	1.33	103		-	-	*		
13C-PCB-15	2.57e+07	1.57 y	23:46	0.88	8160					81.6	
PCB-19	6.44e+05	1.02 y	22:02	1.22	371		-	-	*		
PCB-30	*	* n	NotFnd	1.71	*		912	944	7.79		
PCB-18	5.83e+06	1.05 y	23:34	1.12	3660		-	-	*		
PCB-17	2.75e+06	1.09 y	23:45	1.29	1500		-	-	*		
PCB-27	3.49e+05	1.04 y	24:17	1.63	150		-	-	*		
PCB-24	3.14e+05	1.07 y	24:18	1.69	131		-	-	*		
PCB-16	1.46e+06	0.92 y	24:45	1.28	805		-	-	*		
PCB-32	2.24e+06	1.12 y	24:47	1.55	1020		-	-	*		
13C-PCB-19	1.42e+07	1.09 y	22:00	0.47	8370					83.7	
13C-PCB-9	3.59e+07	1.55 y	19:49	-	36.6						
PCB-34	8.38e+04	1.12 y	25:34	0.98	41.6		-	-	*		
PCB-23	*	* n	NotFnd	1.44	*		830	605	12.8		
PCB-29	*	* n	NotFnd	1.25	*		830	605	14.7		
PCB-26	4.12e+06	0.99 y	26:05	1.21	1650		-	-	*		
PCB-25	2.19e+06	1.02 y	26:16	1.53	698		-	-	*		
PCB-31	3.91e+06	0.96 y	26:34	1.11	1710		-	-	*		
PCB-28	5.45e+06	1.00 y	26:40	1.60	1650		-	-	*		
PCB-20	2.93e+06	1.00 y	27:17	1.32	1080		-	-	*		Co-elute PCB 21/33
PCB-21	2.93e+06	1.00 y	27:17	1.32	1080		-	-	*		Co-elute PCB 20/33
PCB-33	2.93e+06	1.00 y	27:17	1.32	1080		-	-	*		Co-elute PCB 20/21
PCB-22	1.50e+06	1.01 y	27:42	1.34	545		-	-	*		
PCB-36	2.03e+06	1.03 y	28:21	1.11	887		-	-	*		
PCB-39	*	* n	NotFnd	1.09	*		830	605	16.9		
PCB-38	*	* n	NotFnd	1.24	*		830	605	14.9		
PCB-35	*	* n	NotFnd	0.96	*		830	605	19.2		
PCB-37	2.92e+05	1.15 y	30:26	1.29	110		-	-	*		
13C-PCB-37	2.06e+07	1.10 y	30:25	1.43	7300					73.0	

PCB-54	5.19e+04	0.86	y	25:33	1.17	22.4	-	-	*	
PCB-50	5.17e+04	0.76	y	26:40	0.86	30.4	-	-	*	
PCB-53	1.56e+06	0.81	y	27:15	0.83	956	-	-	*	
PCB-51	3.96e+05	0.84	y	27:36	0.86	232	-	-	*	
PCB-45	1.17e+06	0.78	y	28:00	0.74	801	-	-	*	
PCB-46	4.46e+05	0.84	y	28:27	0.69	329	-	-	*	
PCB-52	1.98e+07	0.79	y	28:54	1.02	9790	-	-	*	Co-elute PCB 69
PCB-69	1.98e+07	0.79	y	28:54	1.02	9790	-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.05	*	1200	1450	13.1	
PCB-43	9.62e+06	0.80	y	29:12	0.79	6150	-	-	*	Co-elute PCB 49
PCB-49	9.62e+06	0.80	y	29:12	0.79	6150	-	-	*	Co-elute PCB 43
PCB-47	2.26e+06	0.79	y	29:23	0.96	1190	-	-	*	
PCB-48	1.76e+06	0.81	y	29:29	1.05	849	-	-	*	Co-elute PCB 75
PCB-75	1.76e+06	0.81	y	29:29	1.05	849	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.04	*	1200	1450	13.3	
PCB-62	*	*	n	NotFnd	1.01	*	1200	1450	13.6	
PCB-44	7.34e+06	0.79	y	30:09	0.73	5100	-	-	*	
PCB-42	2.75e+06	0.84	y	30:22	0.99	1410	-	-	*	Co-elute PCB 59
PCB-59	2.75e+06	0.84	y	30:22	0.99	1410	-	-	*	Co-elute PCB 42
PCB-72	6.17e+06	0.78	y	30:55	1.06	2950	-	-	*	Co-elute PCB 41/71/64
PCB-41	6.17e+06	0.78	y	30:55	1.06	2950	-	-	*	Co-elute PCB 72/71/64
PCB-71	6.17e+06	0.78	y	30:55	1.06	2950	-	-	*	Co-elute PCB 72/41/64
PCB-64	6.17e+06	0.78	y	30:55	1.06	2950	-	-	*	Co-elute PCB 72/41/71
PCB-68	1.78e+05	0.79	y	31:12	1.12	80.4	-	-	*	
PCB-40	7.78e+05	0.87	y	31:22	0.64	617	-	-	*	
PCB-57	1.85e+05	0.79	y	31:43	1.06	88.5	-	-	*	
PCB-67	3.77e+05	0.84	y	32:02	1.06	179	-	-	*	
PCB-58	*	*	n	NotFnd	1.03	*	1200	1450	13.4	
PCB-63	2.63e+05	0.77	y	32:17	1.07	124	-	-	*	
PCB-74	1.86e+06	0.79	y	32:34	1.11	850	-	-	*	
PCB-61	5.27e+06	0.79	y	32:45	1.08	2450	-	-	*	Co-elute PCB 70
PCB-70	5.27e+06	0.79	y	32:45	1.08	2450	-	-	*	Co-elute PCB 61
PCB-76	5.11e+06	0.79	y	32:58	1.14	2260	-	-	*	Co-elute PCB 66
PCB-66	5.11e+06	0.79	y	32:58	1.14	2260	-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.22	*	1200	1450	11.3	
PCB-55	2.38e+05	0.84	y	33:28	1.10	110	-	-	*	
13C-PCB-54	1.98e+07	0.82	y	25:32	1.20	8370				83.7
PCB-104	2.68e+06	1.55	y	29:58	1.25	1980	-	-	*	
PCB-96	1.16e+05	1.65	y	31:10	1.14	94.3	-	-	*	
PCB-103	1.58e+05	1.70	y	31:41	0.94	156	-	-	*	
PCB-100	7.91e+04	1.34	y	32:01	0.91	80.1	-	-	*	
PCB-94	5.16e+04	1.52	y	32:28	0.76	63.0	-	-	*	
PCB-98	*	*	n	NotFnd	0.97	*	356	392	7.59	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.97	*	356	392	7.59	Co-elute PCB 98
PCB-95	9.04e+06	1.58	y	32:59	0.80	10400	-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*	356	392	9.49	
PCB-88	1.04e+06	1.57	y	33:22	0.81	1190	-	-	*	Co-elute PCB 91
PCB-91	1.04e+06	1.57	y	33:22	0.81	1190	-	-	*	Co-elute PCB 88
PCB-121	3.58e+06	1.52	y	33:27	1.15	2880	-	-	*	
13C-PCB-104	1.08e+07	1.61	y	29:57	0.66	8390				83.9
13C-PCB-28	2.86e+07	1.04	y	26:39	1.63	8920				89.2
13C-PCB-52	1.97e+07	0.81	y	28:53	-	36.9				

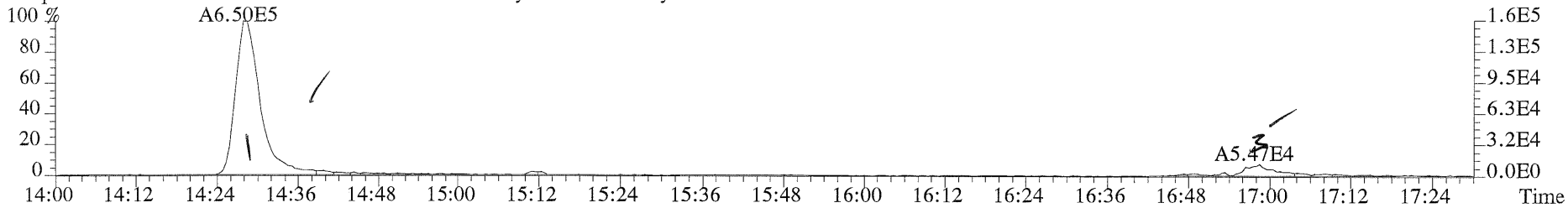
PCB-56	2.11e+06	0.81	y	33:57	1.24	797	-	-	*	Co-elute PCB 60
PCB-60	2.11e+06	0.81	y	33:57	1.24	797	-	-	*	Co-elute PCB 56
PCB-79	1.03e+05	0.76	y	34:54	1.23	39.4	-	-	*	
PCB-78	2.95e+06	0.78	y	35:41	1.13	1220	-	-	*	
PCB-81	3.51e+05	0.67	y	36:06	1.23	134	-	-	*	
13C-PCB-81	2.13e+07	0.79	y	36:07	1.35	9070				90.7
PCB-77	3.14e+05	0.71	y	36:43	1.14	127	-	-	*	
13C-PCB-77	2.16e+07	0.78	y	36:43	1.37	9020				90.2
PCB-155	4.46e+06	1.29	y	34:08	1.18	3150	-	-	*	
PCB-150	*	*	n	NotFnd	1.01	*	412	436	7.90	
PCB-152	*	*	n	NotFnd	1.00	*	412	436	8.06	
PCB-145	*	*	n	NotFnd	1.00	*	412	436	8.00	
PCB-136	1.11e+06	1.24	y	36:31	0.94	984	-	-	*	
PCB-148	1.11e+06	1.24	y	36:31	0.78	1180	-	-	*	
PCB-154	9.82e+04	1.20	y	37:04	0.85	96.3	-	-	*	
13C-PCB-155	1.20e+07	1.25	y	34:06	0.84	8250				82.5
13C-PCB-111	1.94e+07	1.57	y	36:14	1.16	9560				95.6
13C-PCB-101	1.74e+07	1.61	y	34:34	-	38.3				
PCB-84	5.78e+06	1.57	y	34:13	0.68	4150	-	-	*	Co-elute PCB 92
PCB-92	5.78e+06	1.57	y	34:13	0.68	4150	-	-	*	Co-elute PCB 84
PCB-89	1.82e+05	1.69	y	34:24	0.67	133	-	-	*	
PCB-90	1.12e+07	1.58	y	34:35	0.76	7170	-	-	*	Co-elute PCB 101
PCB-101	1.12e+07	1.58	y	34:35	0.76	7170	-	-	*	Co-elute PCB 90
PCB-113	5.10e+06	1.56	y	34:54	0.85	2930	-	-	*	
PCB-99	5.10e+06	1.56	y	34:54	0.85	2950	-	-	*	
PCB-119	4.43e+05	1.51	y	35:21	0.96	226	-	-	*	
PCB-83	7.00e+05	1.52	y	35:31	0.78	438	-	-	*	Co-elute PCB 112
PCB-112	7.00e+05	1.52	y	35:31	0.78	438	-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.92	*	602	684	9.32	
PCB-97	2.71e+06	1.53	y	35:50	0.82	1630	-	-	*	
PCB-86	*	*	n	NotFnd	0.66	*	602	684	13.0	
PCB-125	4.35e+06	1.57	y	36:06	0.85	2500	-	-	*	Co-elute PCB 87/117
PCB-87	4.35e+06	1.57	y	36:06	0.85	2500	-	-	*	Co-elute PCB 125/117
PCB-117	4.35e+06	1.57	y	36:06	0.85	2500	-	-	*	Co-elute PCB 125/87
PCB-111	1.28e+05	1.32	y	36:15	1.13	55.1	-	-	*	Co-elute PCB 115
PCB-115	1.28e+05	1.32	y	36:15	1.13	55.1	-	-	*	Co-elute PCB 111
PCB-85	1.54e+06	1.46	y	36:21	0.79	957	-	-	*	Co-elute PCB 116
PCB-116	1.54e+06	1.46	y	36:21	0.79	957	-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.93	*	602	684	9.25	
PCB-110	1.43e+07	1.54	y	36:44	1.07	6540	-	-	*	
PCB-82	7.68e+05	1.60	y	37:19	0.55	681	-	-	*	
PCB-124	2.68e+05	1.42	y	38:00	1.03	128	-	-	*	
PCB-108	6.57e+05	1.55	y	38:09	1.17	275	-	-	*	Co-elute PCB 107
PCB-107	6.57e+05	1.55	y	38:09	1.17	275	-	-	*	Co-elute PCB 108
PCB-123	1.27e+05	1.63	y	38:17	1.34	50.6	-	-	*	
13C-PCB-123	1.88e+07	1.62	y	38:17	1.34	7970				79.7
PCB-118	6.53e+06	1.50	y	38:28	1.08	2770	-	-	*	Co-elute PCB 106
PCB-106	6.53e+06	1.50	y	38:28	1.08	2770	-	-	*	Co-elute PCB 118
13C-PCB-118	2.18e+07	1.62	y	38:27	1.45	8530				85.3
PCB-114	1.77e+05	1.65	y	39:05	1.10	79.7	-	-	*	
13C-PCB-114	2.02e+07	1.62	y	39:05	1.36	8400				84.0
PCB-122	1.10e+05	1.39	y	39:13	1.25	42.9	-	-	*	
PCB-105	2.16e+06	1.49	y	39:54	1.16	888	-	-	*	
13C-PCB-105	2.10e+07	1.61	y	39:54	1.38	8620				86.2

PCB-127	*	*	n	NotFnd	1.07	*		536	672	7.53		
PCB-126	*	*	n	NotFnd	1.17	*		536	672	9.55		
13C-PCB-126	2.01e+07	1.58	y	42:04	1.27	8970					89.7	
PCB-151	1.51e+06	1.27	y	37:42	0.89	944		-	-	*		
PCB-135	1.02e+06	1.29	y	37:54	0.81	703		-	-	*		
PCB-144	3.20e+05	1.24	y	38:00	1.04	171		-	-	*		
PCB-147	1.88e+05	1.20	y	38:09	0.96	108		-	-	*		
PCB-139	5.73e+06	1.30	y	38:22	0.98	3240		-	-	*	Co-elute PCB 149	
PCB-149	5.73e+06	1.30	y	38:22	0.98	3240		-	-	*	Co-elute PCB 139	
PCB-140	*	*	n	NotFnd	0.96	*		820	620	11.1		
PCB-143	4.03e+05	1.44	n	39:00	0.89	251		-	-	*	Co-elute PCB 134	
PCB-134	4.03e+05	1.44	n	39:00	0.89	251		-	-	*	Co-elute PCB 143	
PCB-131	2.03e+05	1.39	y	39:15	0.91	124		-	-	*	Co-elute PCB 133	
PCB-133	2.03e+05	1.39	y	39:15	0.91	124		-	-	*	Co-elute PCB 131	
PCB-142	3.56e+06	1.26	y	39:24	0.79	2500		-	-	*		
PCB-165	9.13e+05	1.31	y	39:38	1.07	472		-	-	*	Co-elute PCB 146	
PCB-146	9.13e+05	1.31	y	39:38	1.07	472		-	-	*	Co-elute PCB 165	
PCB-161	2.23e+06	1.24	y	39:52	1.01	1230		-	-	*	Co-elute PCB 132	
PCB-132	2.23e+06	1.24	y	39:52	1.01	1230		-	-	*	Co-elute PCB 161	
PCB-153	5.58e+06	1.26	y	40:01	1.05	2970		-	-	*		
PCB-168	*	*	n	NotFnd	1.18	*		820	620	9.11		
PCB-141	8.81e+05	1.24	y	40:43	0.89	552		-	-	*		
PCB-137	3.21e+05	1.17	y	41:05	0.85	210		-	-	*		
PCB-130	3.78e+05	1.27	y	41:10	0.79	266		-	-	*		
PCB-138	6.09e+06	1.28	y	41:31	1.19	2850		-	-	*	Co-elute PCB 163/164	
PCB-163	6.09e+06	1.28	y	41:31	1.19	2850		-	-	*	Co-elute PCB 138/164	
PCB-164	6.09e+06	1.28	y	41:31	1.19	2850		-	-	*	Co-elute PCB 138/163	
PCB-158	8.78e+05	1.25	y	41:44	1.18	414		-	-	*	Co-elute PCB 160	
PCB-160	8.78e+05	1.25	y	41:44	1.18	414		-	-	*	Co-elute PCB 158	
PCB-129	2.62e+05	1.27	y	41:59	0.73	199		-	-	*		
PCB-166	3.20e+04	1.34	y	42:27	1.11	16.1	J	-	-	*		
PCB-159	4.37e+04	1.16	y	42:45	1.20	20.2		-	-	*		
PCB-128	9.04e+05	1.23	y	43:00	1.00	504		-	-	*	Co-elute PCB 162	
PCB-162	9.04e+05	1.23	y	43:00	1.00	504		-	-	*	Co-elute PCB 128	
PCB-167	2.21e+05	1.25	y	43:23	1.06	114		-	-	*		
13C-PCB-167	1.83e+07	1.26	y	43:21	1.15	9080					90.8	
PCB-156	4.08e+05	1.19	y	44:39	1.12	209		-	-	*		
13C-PCB-156	1.74e+07	1.28	y	44:37	1.10	8950					89.5	
PCB-157	1.25e+05	1.06	y	44:52	1.13	59.4		-	-	*		
13C-PCB-157	1.87e+07	1.27	y	44:52	1.13	9400					94.0	
PCB-169	*	*	n	NotFnd	1.07	*		820	620	9.75		
13C-PCB-169	1.76e+07	1.28	y	46:47	1.05	9520					95.2	

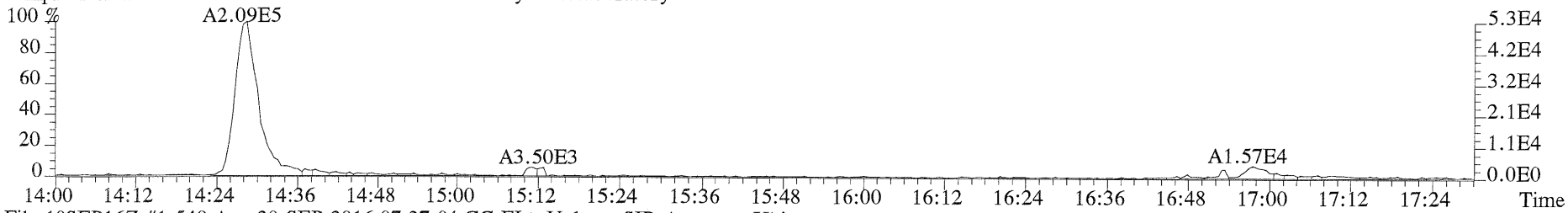
PCB-188	*	*	n	NotFnd	1.25	*		684	672	9.25	
13C-PCB-188	1.38e+07	1.08	y	39:36	0.94	8380					83.8
PCB-184	7.00e+06	1.05	y	40:04	1.39	3900		-	-	*	
PCB-179	4.08e+05	1.05	y	40:48	1.31	243		-	-	*	
PCB-176	1.29e+05	0.96	y	41:15	1.28	78.2		-	-	*	
PCB-186	*	*	n	NotFnd	1.28	*		684	672	8.82	
PCB-178	1.16e+05	1.07	y	42:17	0.89	102		-	-	*	
PCB-175	2.26e+04	1.01	y	42:37	0.93	18.8	J	-	-	*	
PCB-187	6.98e+05	1.09	y	42:45	1.02	534		-	-	*	Co-elute PCB 182
PCB-182	6.98e+05	1.09	y	42:45	1.02	534		-	-	*	Co-elute PCB 187
PCB-183	3.00e+05	1.00	y	43:05	1.02	229		-	-	*	
PCB-185	4.65e+04	0.98	y	43:41	0.91	39.5		-	-	*	
PCB-174	4.78e+05	1.15	y	44:03	0.94	396		-	-	*	
PCB-181	*	*	n	NotFnd	0.87	*		684	672	12.9	
PCB-177	2.84e+05	1.08	y	44:19	0.80	275		-	-	*	
PCB-171	1.47e+05	1.03	y	44:35	0.89	129		-	-	*	
PCB-173	*	*	n	NotFnd	0.79	*		684	672	14.2	
PCB-172	1.78e+05	1.09	y	45:22	0.80	174		-	-	*	
PCB-192	3.70e+06	1.03	y	45:35	1.09	2640		-	-	*	
PCB-180	8.28e+05	1.07	y	45:46	1.06	605		-	-	*	
PCB-193	7.63e+04	1.04	y	45:56	1.16	50.9		-	-	*	
PCB-191	3.28e+04	0.92	y	46:08	1.11	23.0		-	-	*	
PCB-170	2.88e+05	0.98	y	47:05	0.77	291		-	-	*	
PCB-190	8.43e+04	1.04	y	47:15	1.07	61.4		-	-	*	
PCB-189	*	*	n	NotFnd	1.23	*		684	672	8.97	
13C-PCB-189	1.19e+07	1.09	y	48:28	0.70	9630					96.3
PCB-202	3.20e+04	0.99	y	44:45	1.05	38.3		-	-	*	
PCB-201	*	*	n	NotFnd	1.05	*		408	411	10.7	
PCB-204	4.82e+06	0.90	y	45:22	1.05	5750		-	-	*	
PCB-197	4.40e+04	0.86	y	45:38	1.09	50.7		-	-	*	
PCB-200	*	*	n	NotFnd	1.01	*		408	411	11.2	
PCB-198	*	*	n	NotFnd	0.70	*		408	411	16.1	
PCB-199	6.45e+04	0.83	y	47:41	0.70	116		-	-	*	
PCB-203	8.00e+04	0.90	y	47:56	0.78	129		-	-	*	Co-elute PCB 196
PCB-196	8.00e+04	0.90	y	47:56	0.78	129		-	-	*	Co-elute PCB 203
13C-PCB-202	8.00e+06	0.93	y	44:44	0.57	8000					80.0
13C-PCB-178	1.05e+07	1.10	y	42:16	0.60	10000					100
13C-PCB-138	1.76e+07	1.28	y	41:29	-	40.4					
PCB-195	4.65e+04	0.89	y	49:05	0.74	35.7		-	-	*	
PCB-194	9.88e+04	0.91	y	49:55	0.82	68.3		-	-	*	
PCB-205	*	*	n	NotFnd	1.07	*		660	672	6.19	
13C-PCB-205	1.76e+07	0.91	y	50:10	1.27	9130					91.3
PCB-208	*	*	n	NotFnd	1.03	*		640	652	7.68	
13C-PCB-208	1.42e+07	0.80	y	49:11	1.14	8170					81.7
PCB-207	3.99e+04	1.39	y	49:30	1.15	28.1		-	-	*	
PCB-206	2.13e+04	1.45	y	51:27	1.04	19.1	J	-	-	*	
13C-PCB-206	1.06e+07	0.80	y	51:26	0.75	9300					93.0
PCB-209	4.23e+04	1.23	y	52:44	1.16	29.2		-	-	*	
13C-PCB-209	1.25e+07	1.20	y	52:43	0.93	8890					88.9
13C-PCB-194	1.52e+07	0.92	y	49:55	-	40.8					

Analyst: _____ Date: 9/21/16

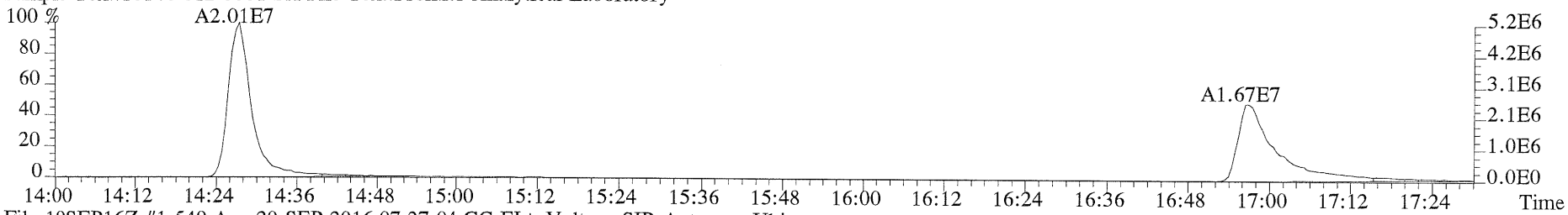
File:19SEP16Z #1-549 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:19 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



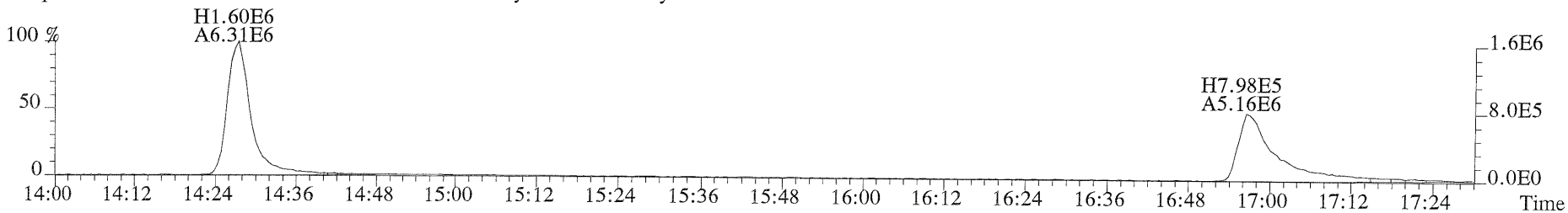
File:19SEP16Z #1-549 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:19 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



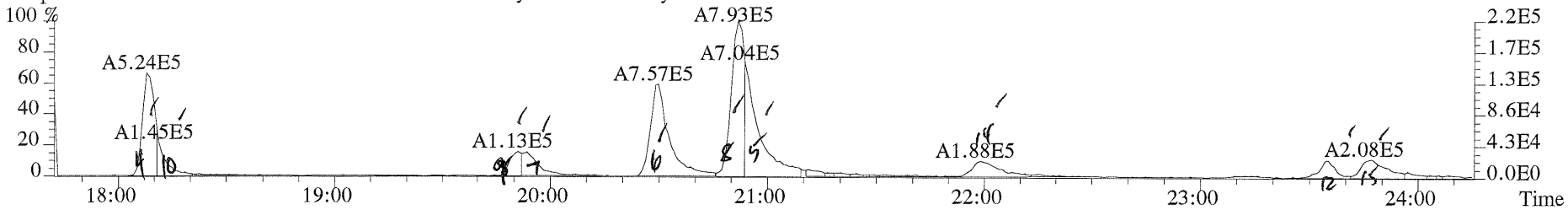
File:19SEP16Z #1-549 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:19 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



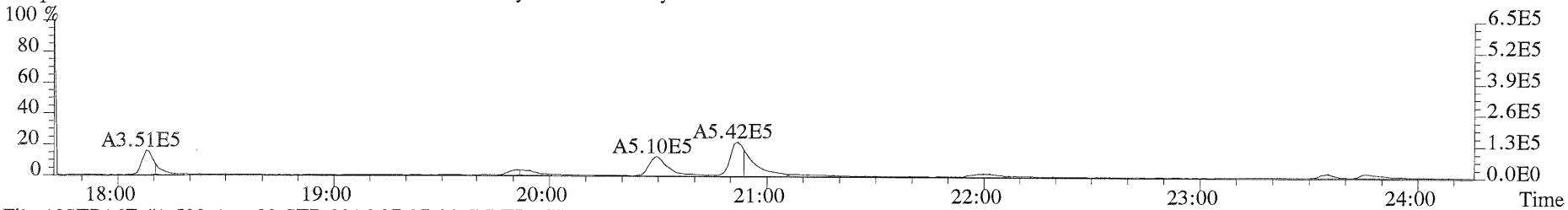
File:19SEP16Z #1-549 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:19 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



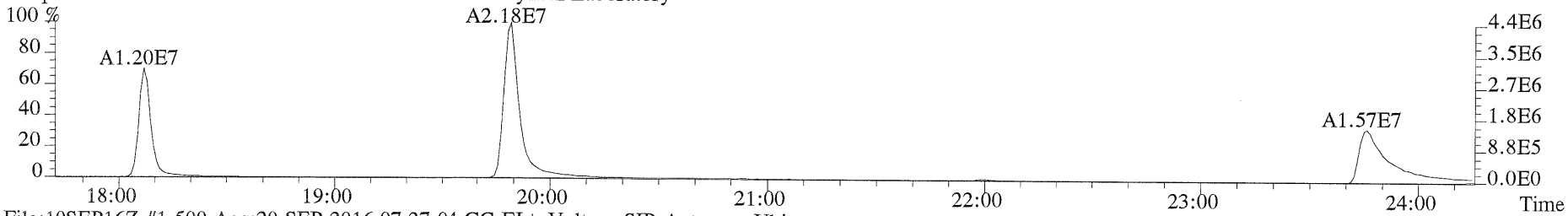
File:19SEP16Z #1-509 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:19 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



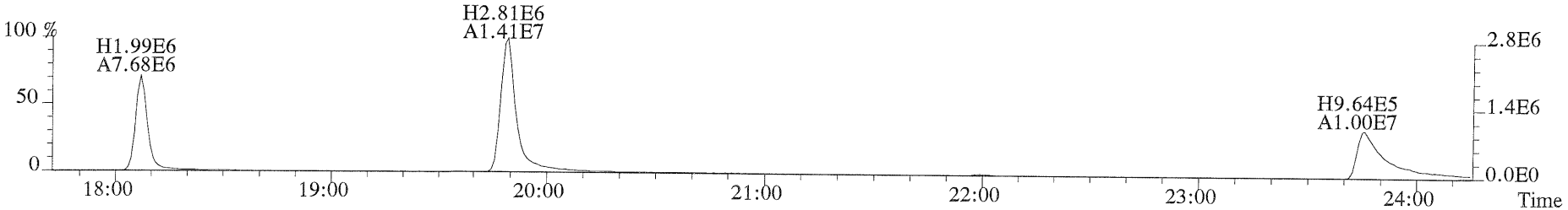
File:19SEP16Z #1-509 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:19 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



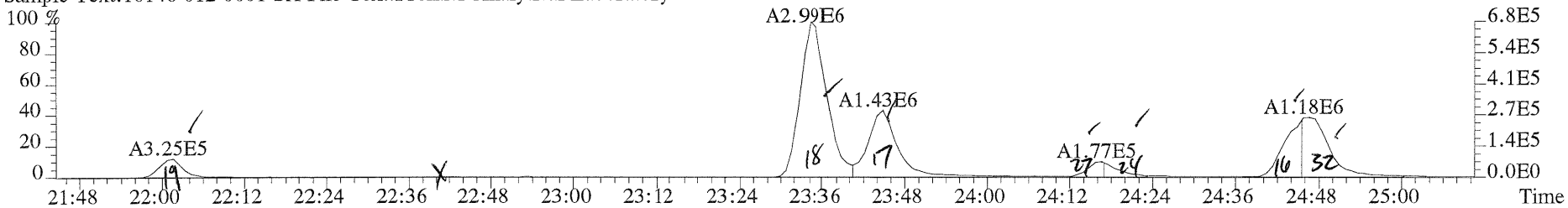
File:19SEP16Z #1-509 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:19 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



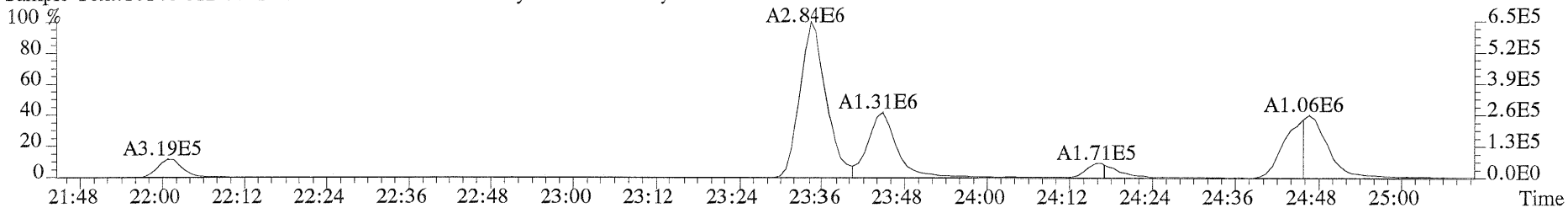
File:19SEP16Z #1-509 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:19 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



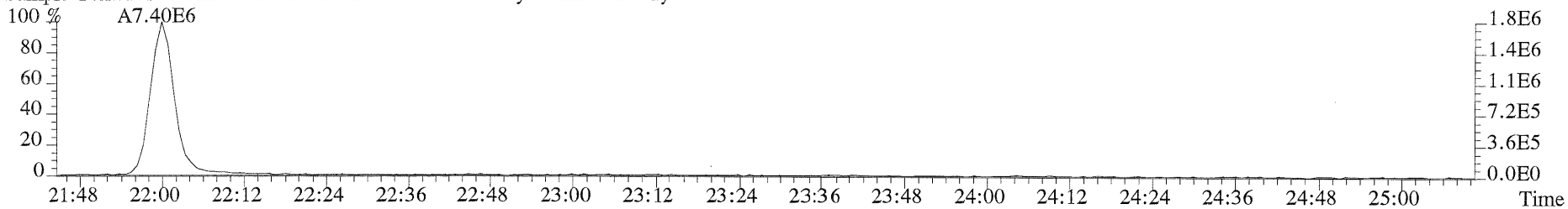
File:19SEP16Z #1-509 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:19 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



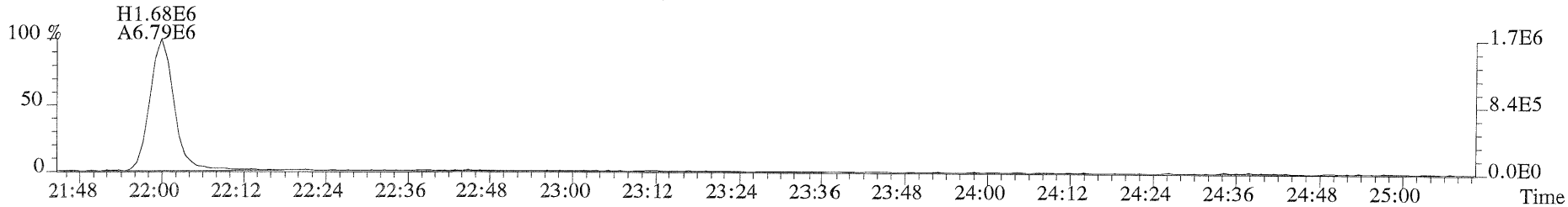
File:19SEP16Z #1-509 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:19 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



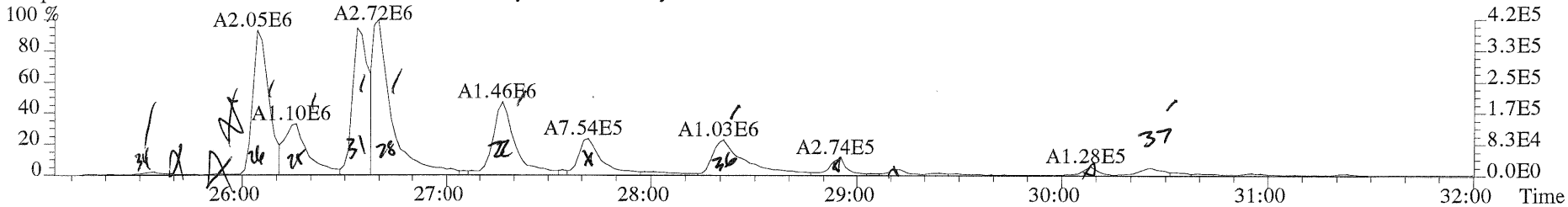
File:19SEP16Z #1-509 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:19 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



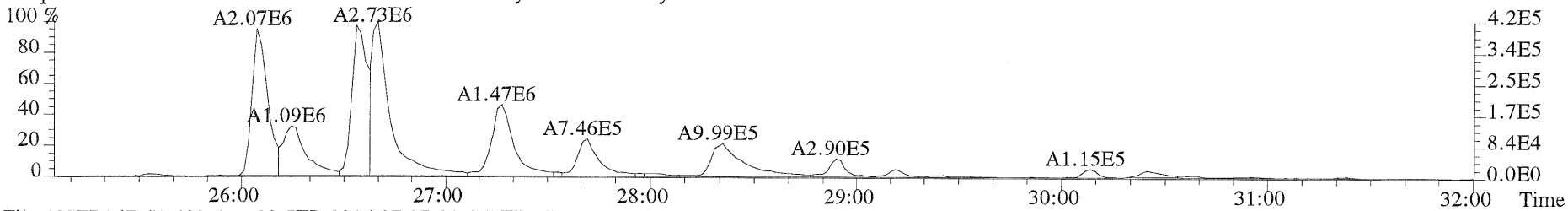
File:19SEP16Z #1-509 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:19 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



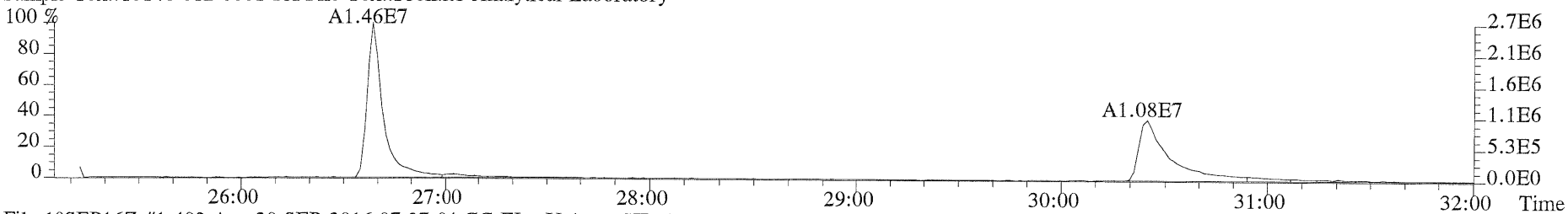
File:19SEP16Z #1-403 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



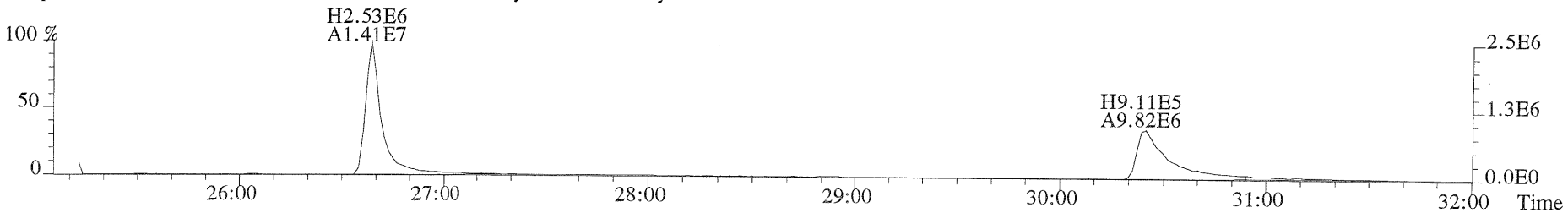
File:19SEP16Z #1-403 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



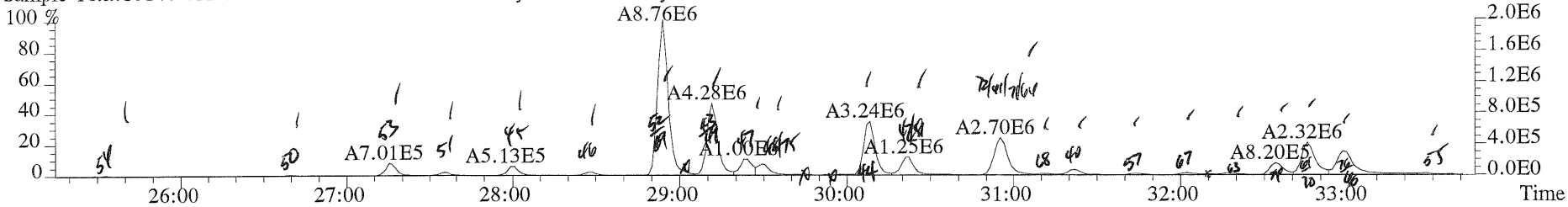
File:19SEP16Z #1-403 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



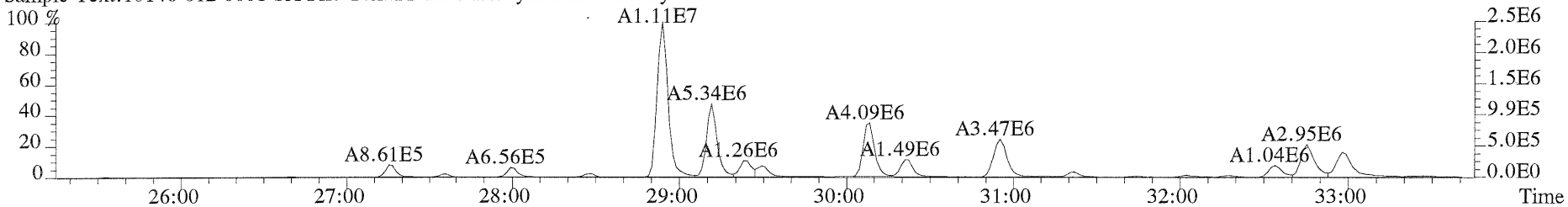
File:19SEP16Z #1-403 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



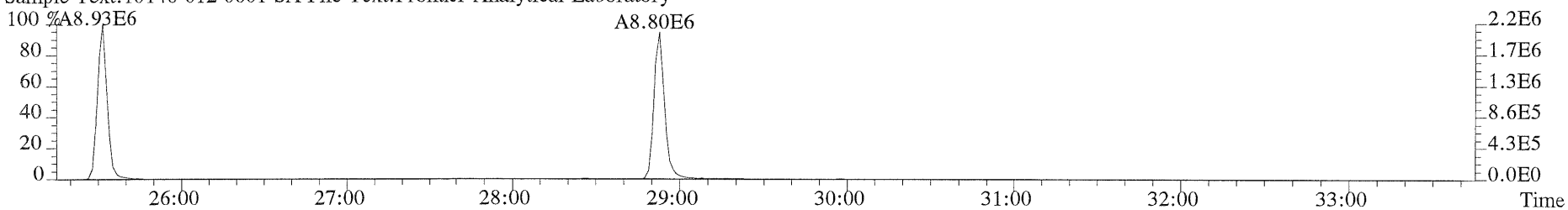
File:19SEP16Z #1-403 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



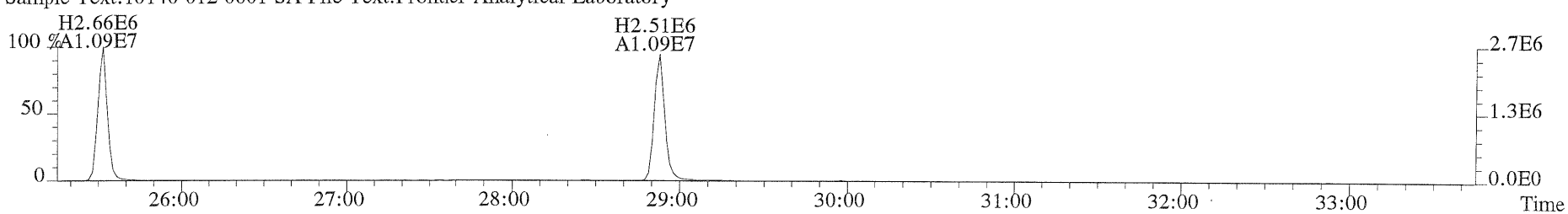
File:19SEP16Z #1-403 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



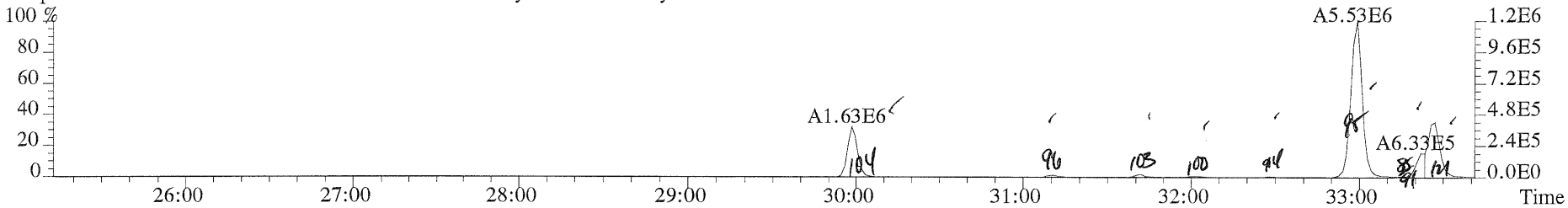
File:19SEP16Z #1-403 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



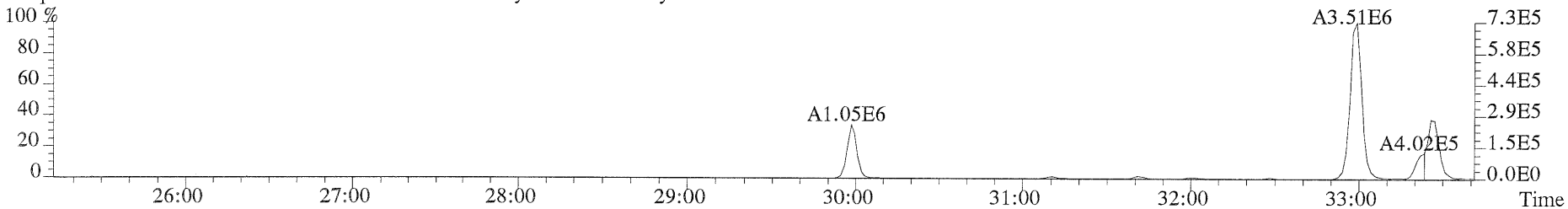
File:19SEP16Z #1-403 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



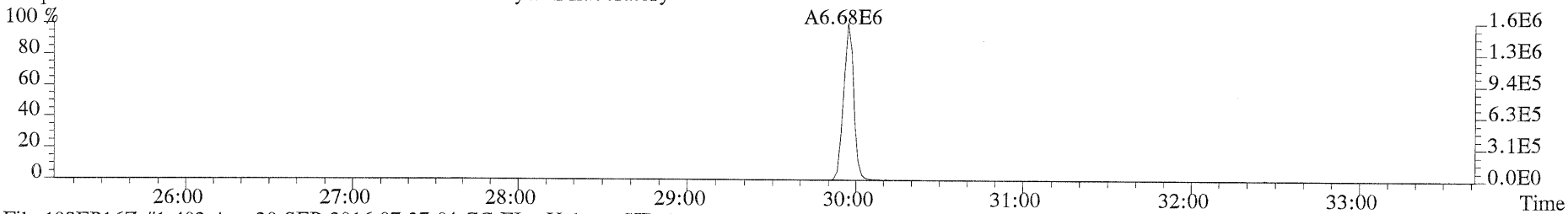
File:19SEP16Z #1-403 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:19 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-403 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:19 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-403 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:19 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



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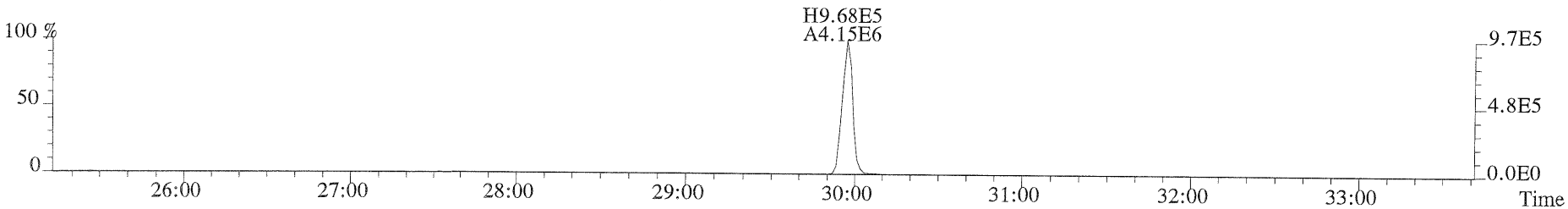
339.9178 S:19 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



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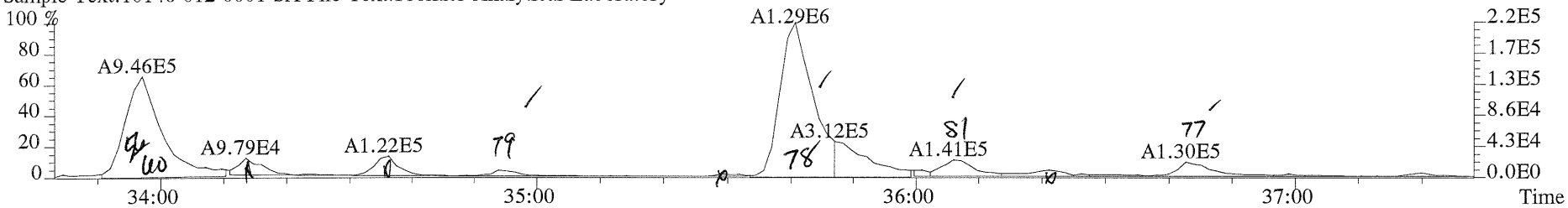
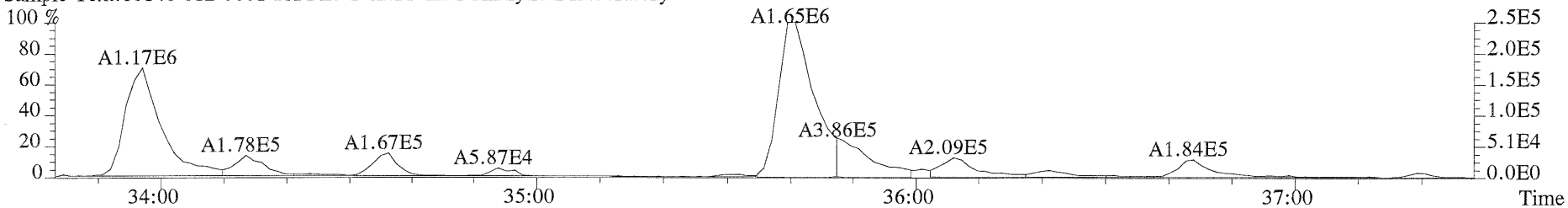
289.9224 S:19 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:19 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



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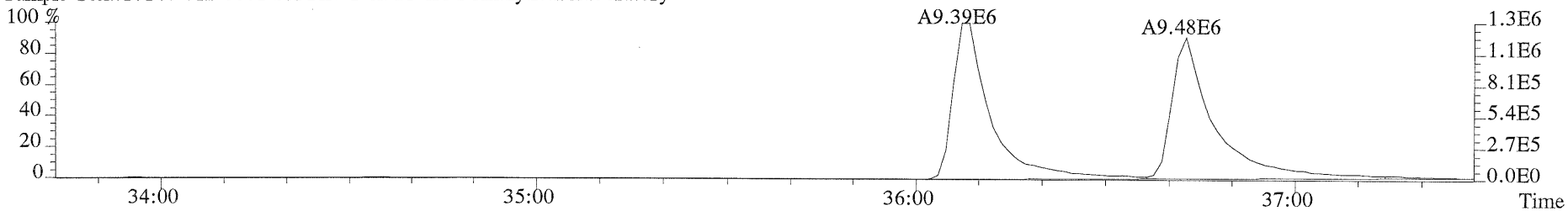
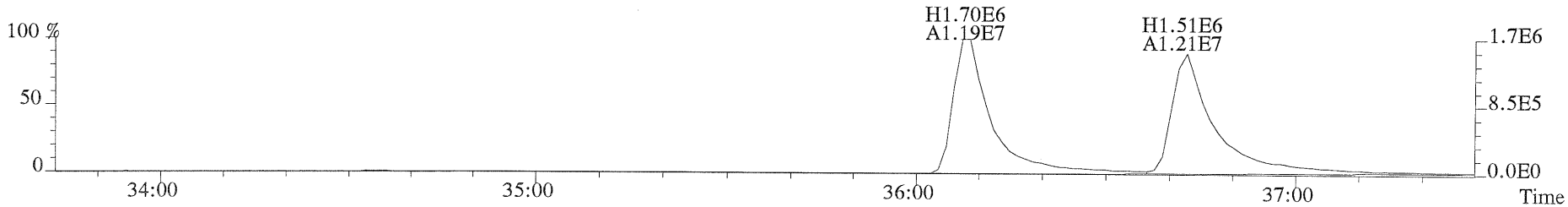
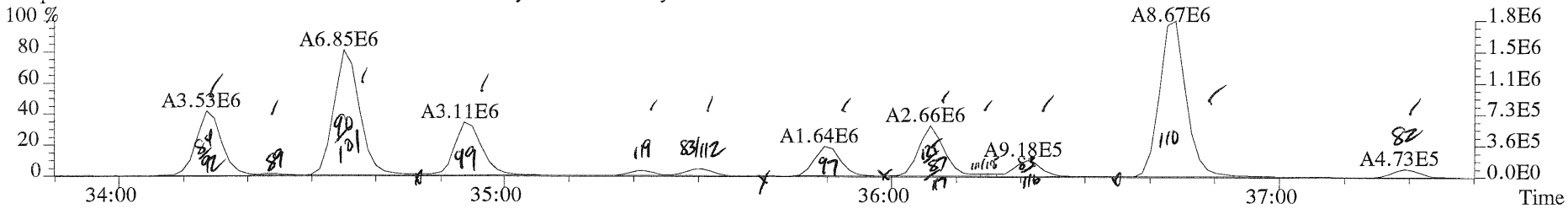
301.9626 S:19 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



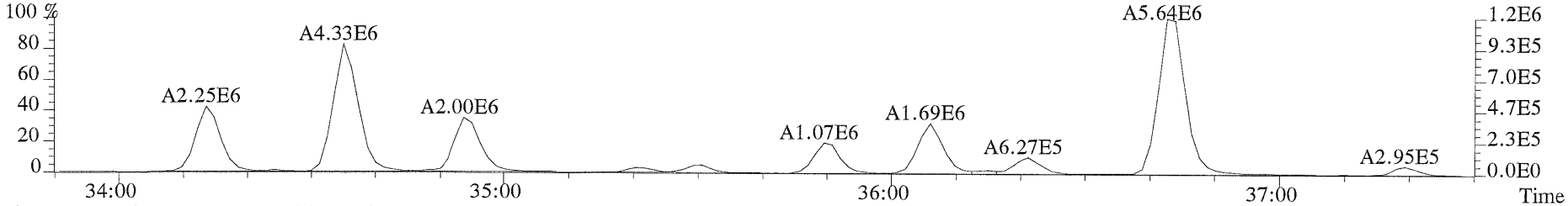
File:19SEP16Z #1-179 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:19 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



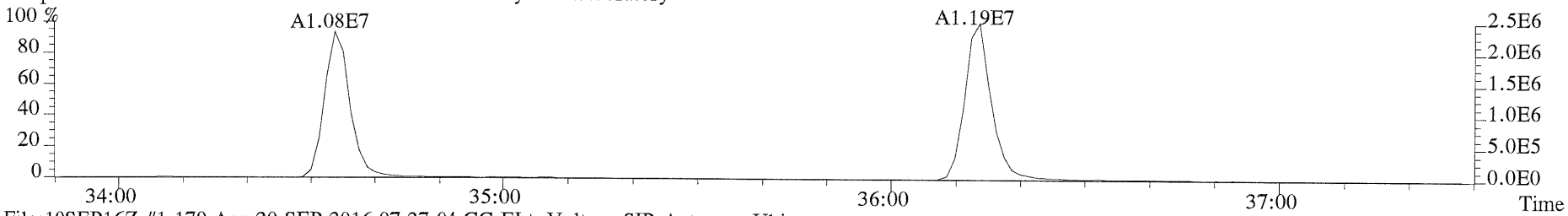
File:19SEP16Z #1-179 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:19 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



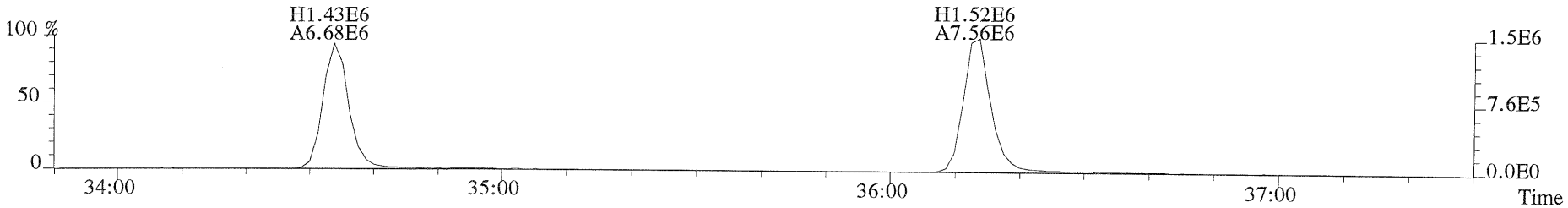
File:19SEP16Z #1-179 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:19 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



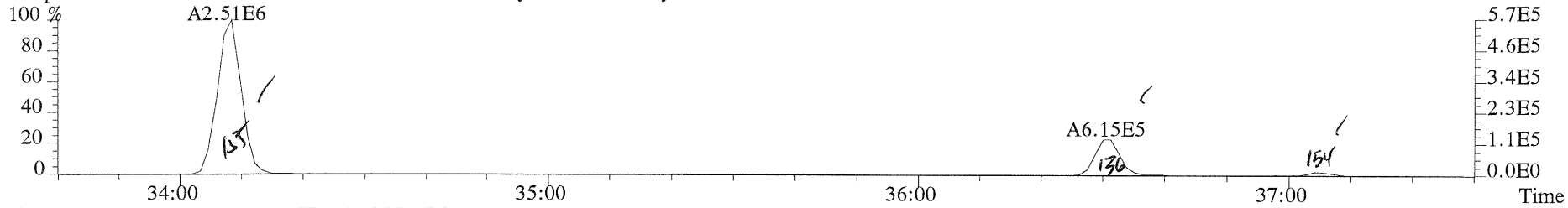
File:19SEP16Z #1-179 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:19 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



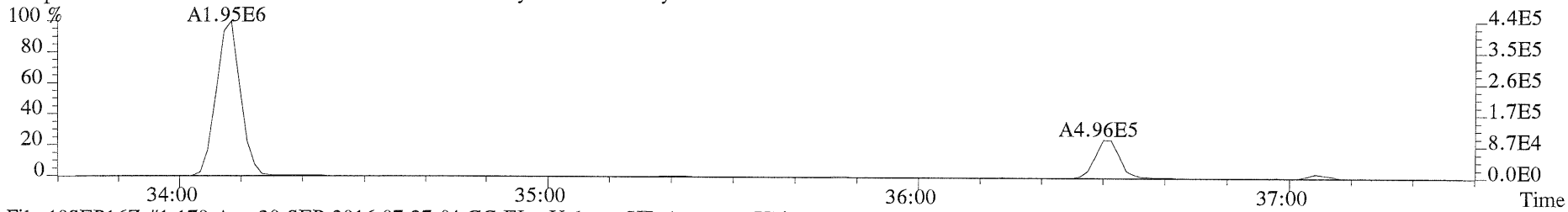
File:19SEP16Z #1-179 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:19 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



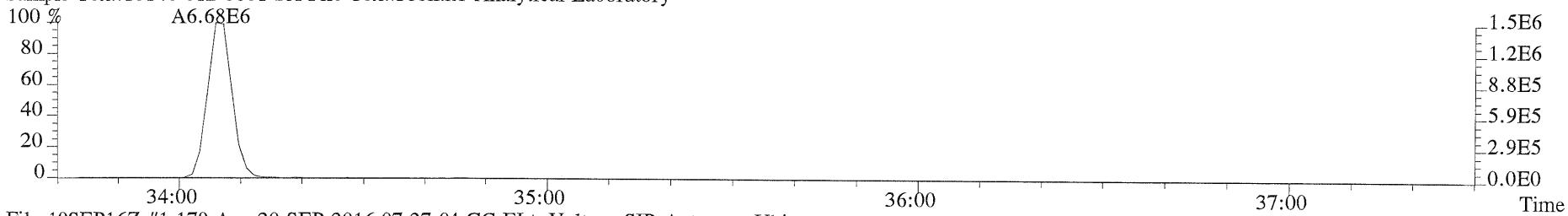
File:19SEP16Z #1-179 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:19 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:19 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-179 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:19 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



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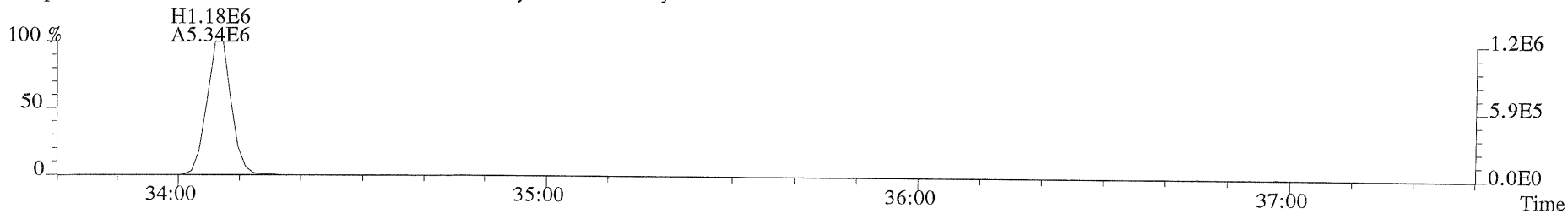
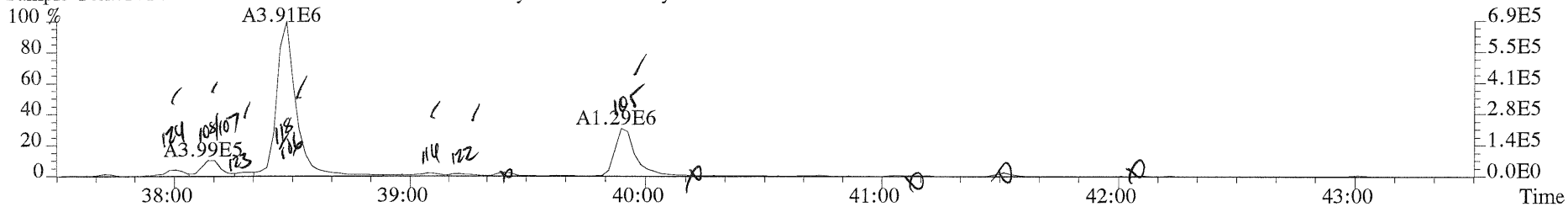
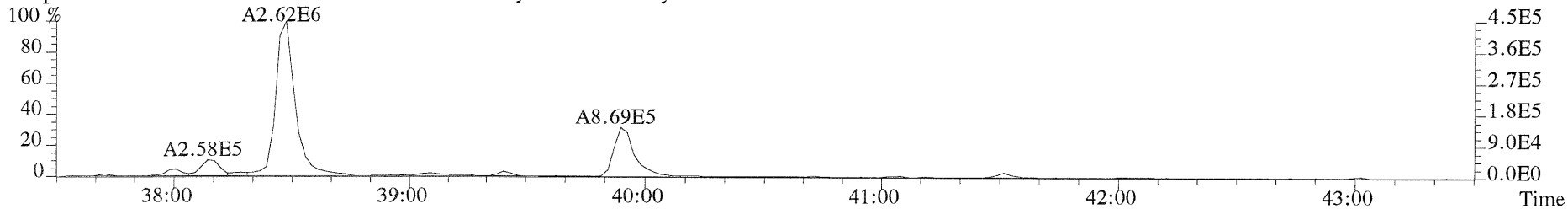
373.8788 S:19 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



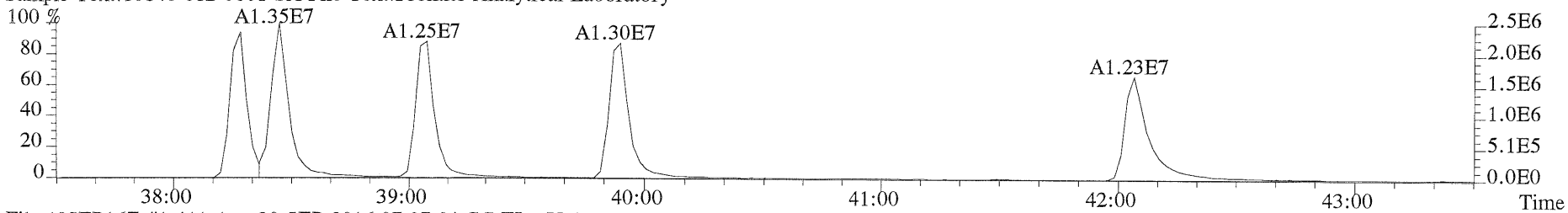
File:19SEP16Z #1-411 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



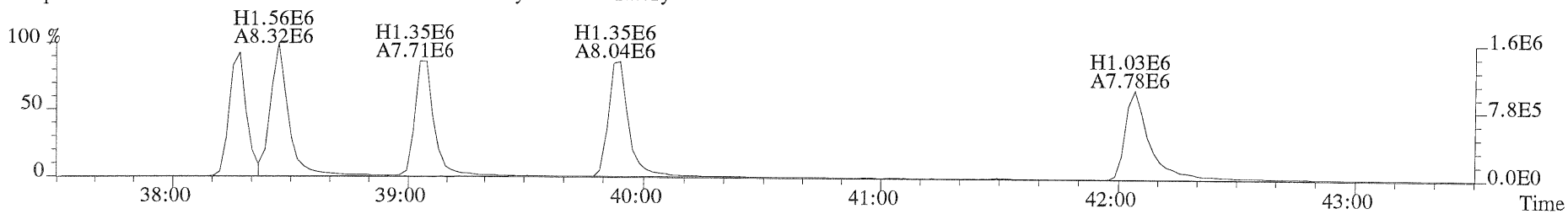
File:19SEP16Z #1-411 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



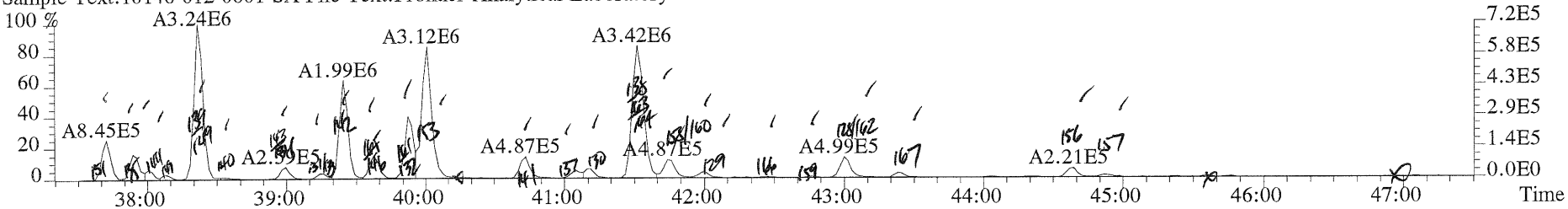
File:19SEP16Z #1-411 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



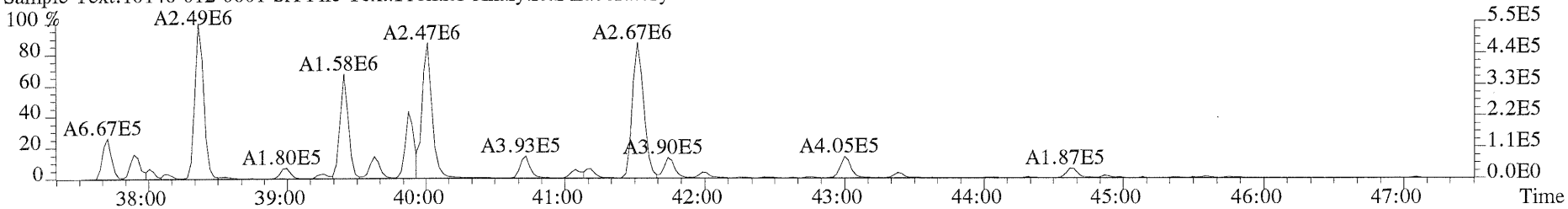
File:19SEP16Z #1-411 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



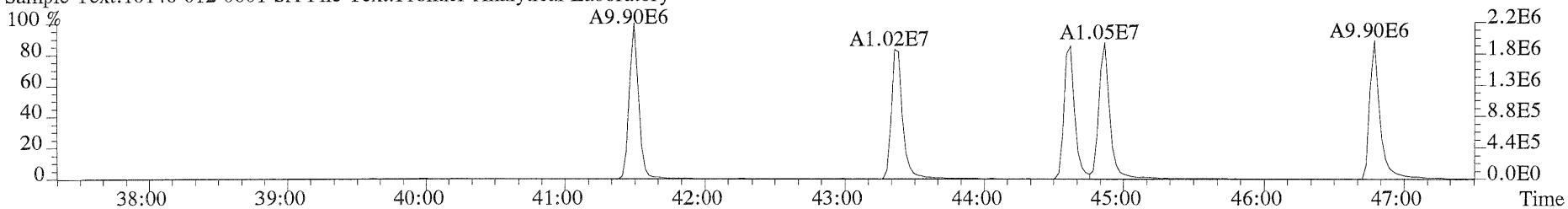
File:19SEP16Z #1-411 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



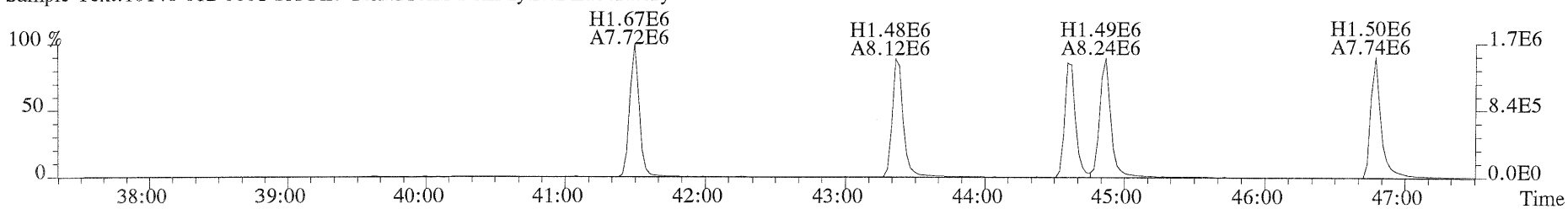
File:19SEP16Z #1-411 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



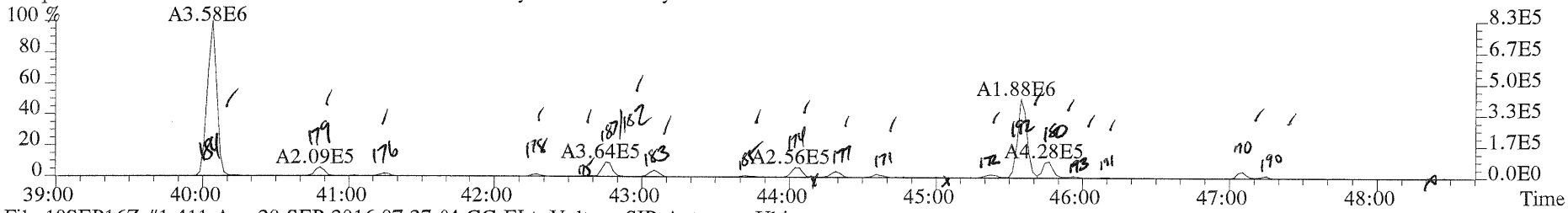
File:19SEP16Z #1-411 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



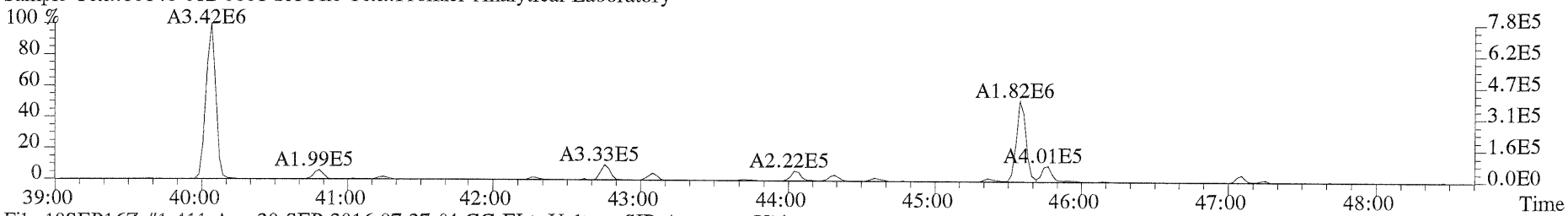
File:19SEP16Z #1-411 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



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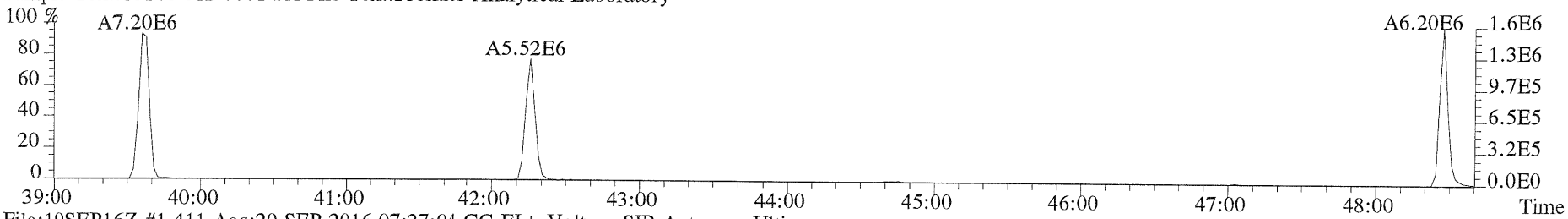
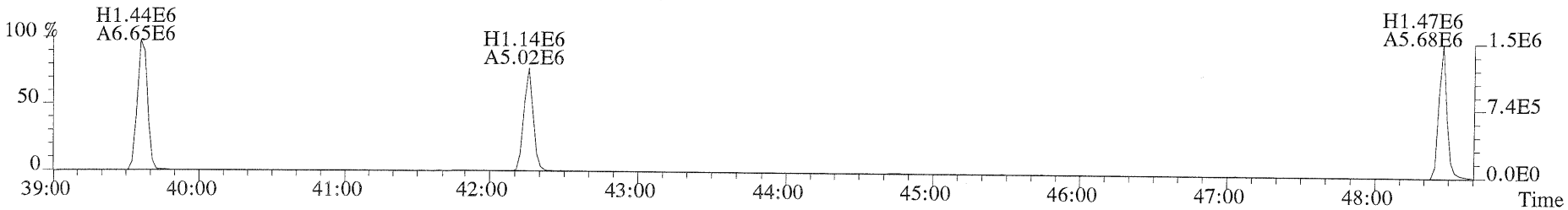
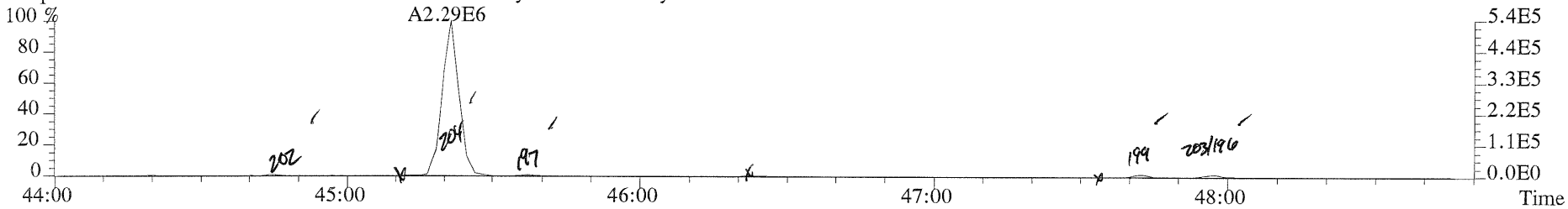
405.8428 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



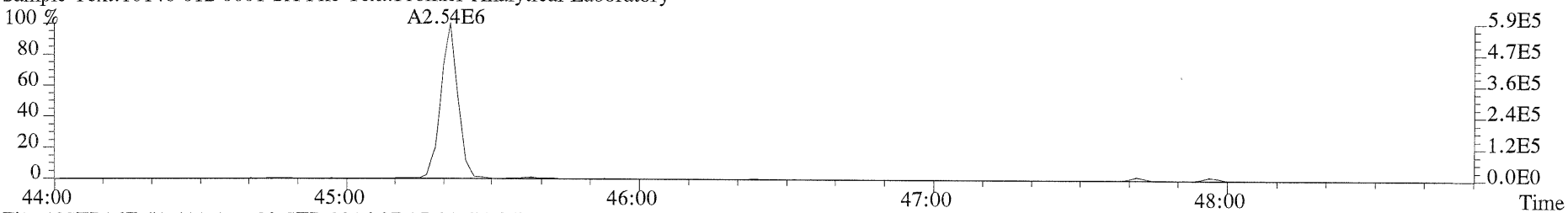
File:19SEP16Z #1-411 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



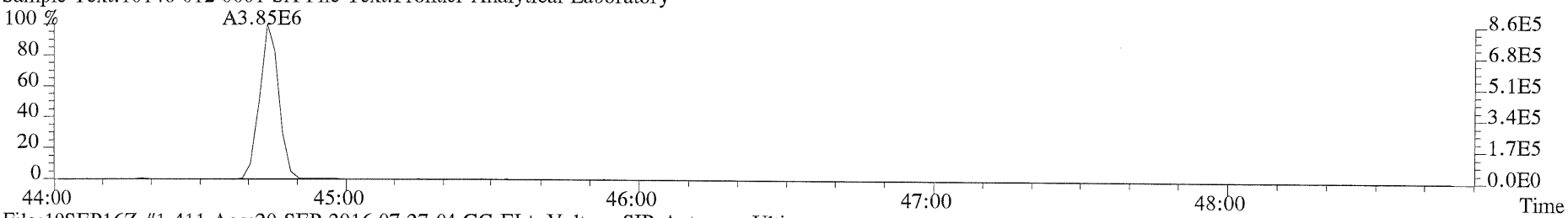
File:19SEP16Z #1-411 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-411 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



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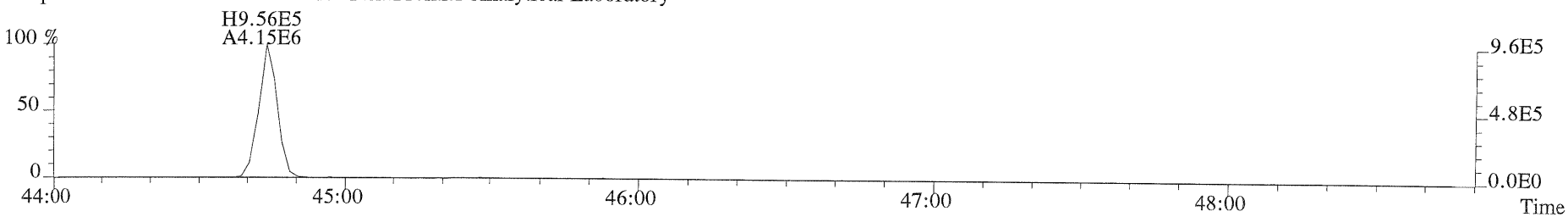
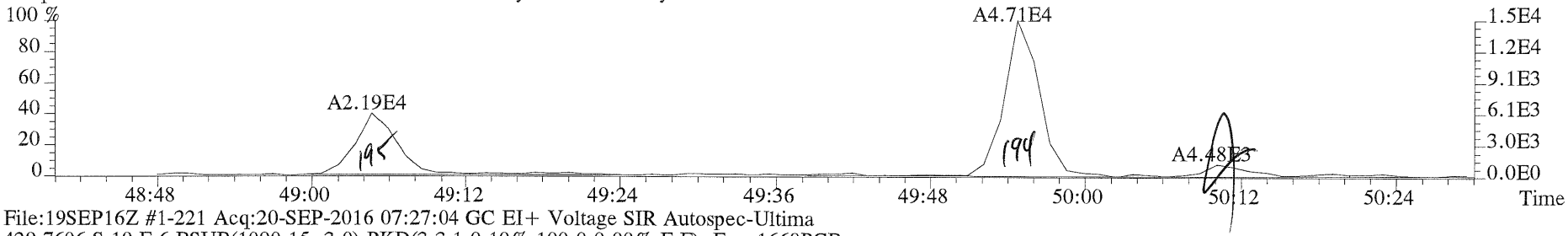
441.8008 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:20-SEP-2016 07:27:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:19 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



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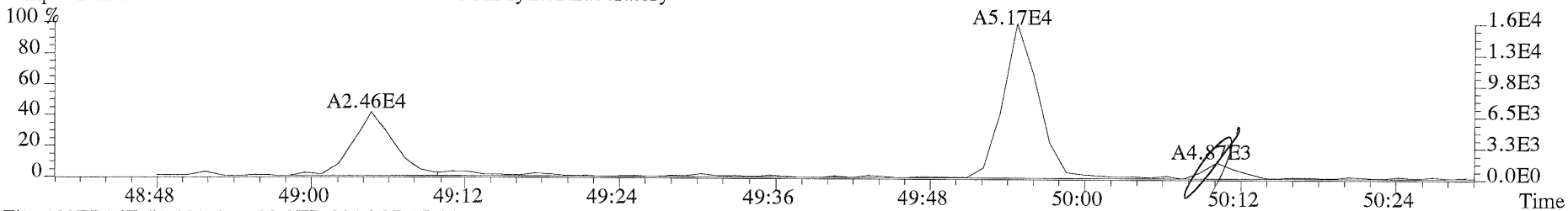
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



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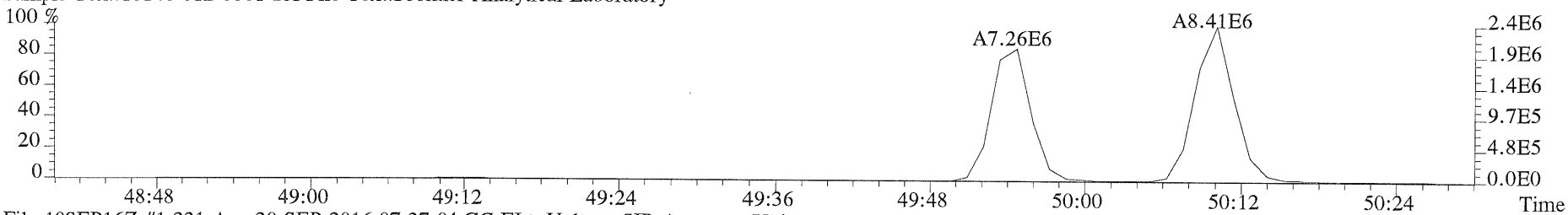
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



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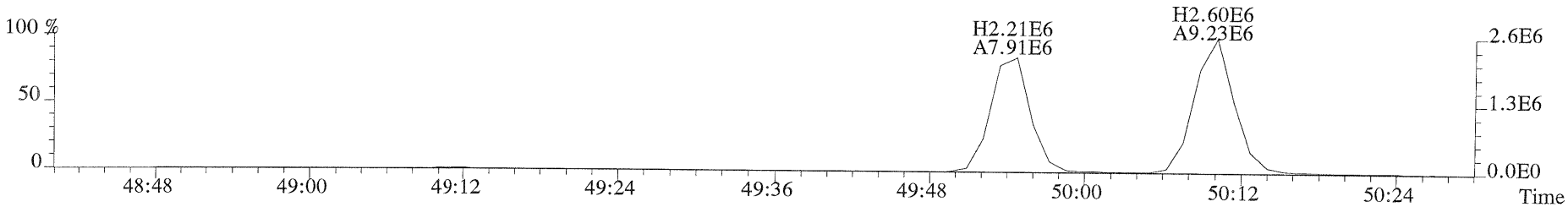
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



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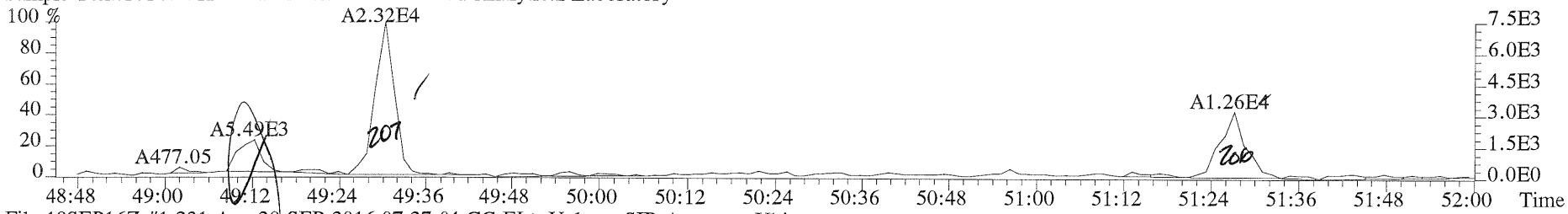
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



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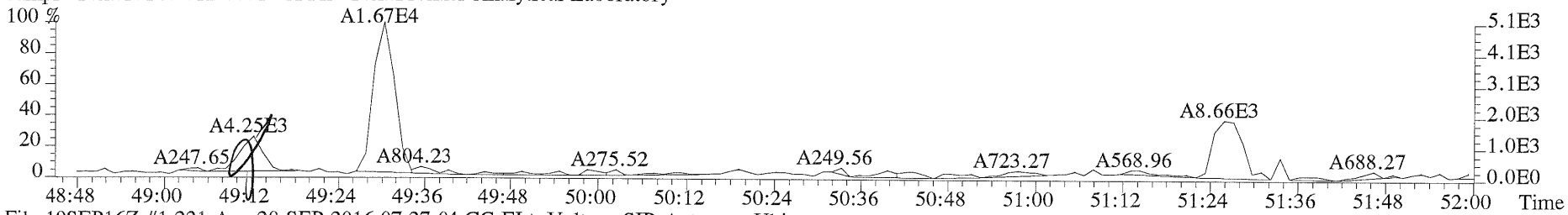

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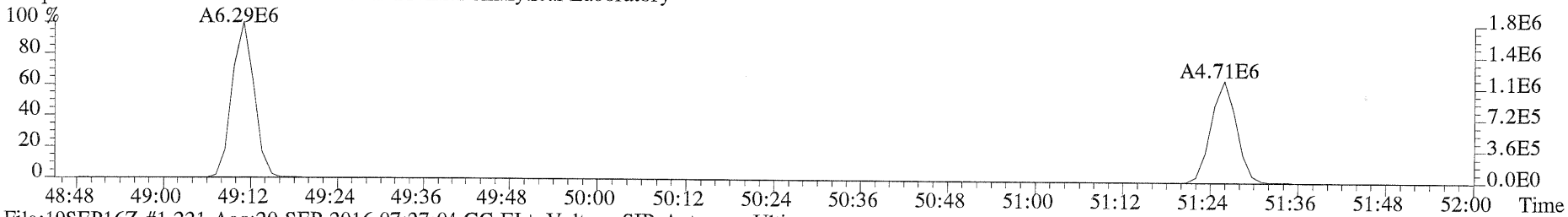
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



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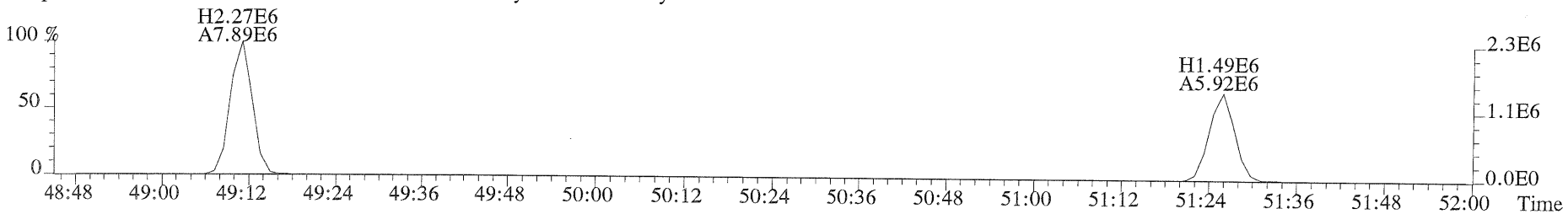
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



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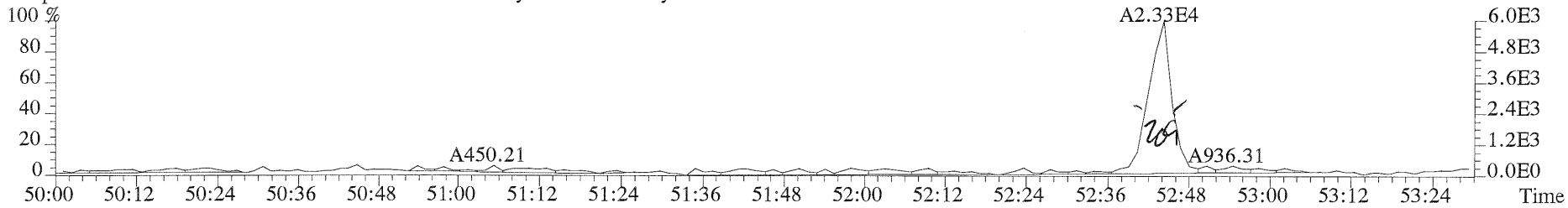
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



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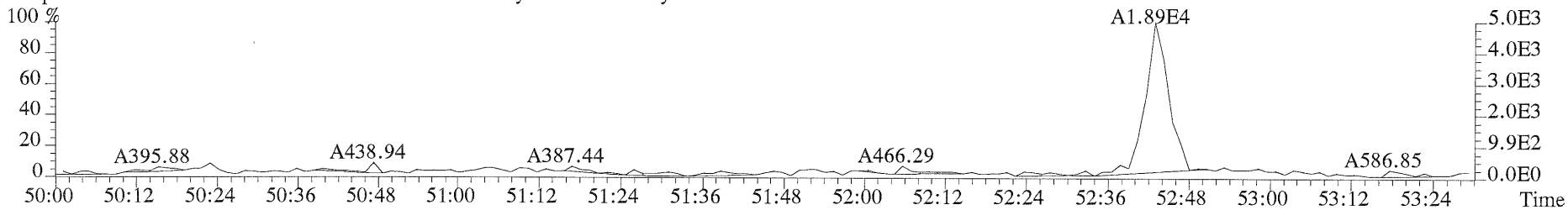
499.6797 S:19 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



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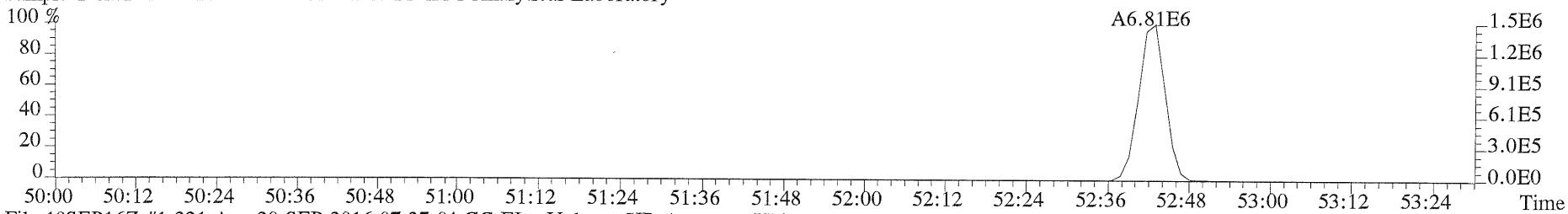
509.7229 S:19 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



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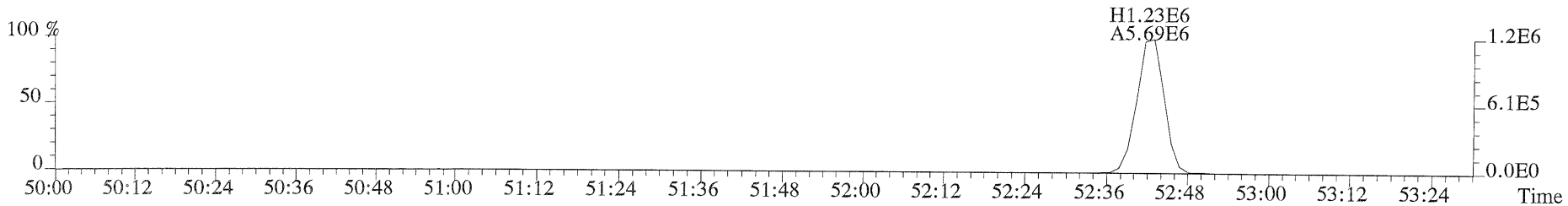
Sample Text:10146-012-0001-SA File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

Data Filename: 11AUG16Z

Analyte: 1668FAL4-8-11-16 Cal: 1668FAL4-8-11-16

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	1.05	0.0632	6.02 %	1.15	1.09	1.02	1.02	1.04	0.98
13C-PCB-1	1.14	0.0410	3.61 %	1.12	1.11	1.14	1.12	1.12	1.22
PCB-3	1.05	0.0605	5.78 %	1.15	1.09	1.02	1.00	1.01	1.01
13C-PCB-3	1.11	0.0465	4.20 %	1.04	1.08	1.10	1.12	1.11	1.19
PCB-4	1.14	0.0394	3.47 %	1.20	1.14	1.13	1.07	1.14	1.14
13C-PCB-4	0.68	0.0184	2.72 %	0.67	0.68	0.66	0.66	0.68	0.71
PCB-15	1.09	0.0250	2.30 %	1.08	1.10	1.07	1.06	1.11	1.12
13C-PCB-15	1.02	0.0428	4.18 %	0.96	1.03	1.03	1.01	1.03	1.09
PCB-19	1.16	0.0996	8.57 %	1.36	1.17	1.12	1.11	1.10	1.10
13C-PCB-19	0.61	0.0258	4.20 %	0.61	0.60	0.59	0.61	0.63	0.66
13C-PCB-9	-	-	- %	-	-	-	-	-	-
PCB-37	1.14	0.0359	3.14 %	1.11	1.16	1.15	1.09	1.14	1.19
13C-PCB-37	1.38	0.0521	3.79 %	1.32	1.33	1.39	1.34	1.40	1.46
PCB-54	1.05	0.00869	0.827 %	1.04	1.06	1.05	1.05	1.05	1.05
13C-PCB-54	1.25	0.0234	1.87 %	1.24	1.25	1.25	1.23	1.25	1.30
PCB-104	1.14	0.0827	7.24 %	1.29	1.19	1.09	1.09	1.10	1.10
13C-PCB-104	0.91	0.0275	3.02 %	0.89	0.88	0.91	0.90	0.92	0.96
13C-PCB-28	1.48	0.0521	3.51 %	1.46	1.47	1.59	1.47	1.46	1.45
13C-PCB-52	-	-	- %	-	-	-	-	-	-
PCB-81	1.14	0.0578	5.05 %	1.24	1.10	1.09	1.12	1.14	1.18
13C-PCB-81	1.27	0.0513	4.04 %	1.21	1.30	1.31	1.22	1.25	1.33
PCB-77	1.10	0.0223	2.03 %	1.11	1.11	1.10	1.06	1.09	1.13
13C-PCB-77	1.27	0.0698	5.49 %	1.25	1.16	1.27	1.27	1.31	1.37
PCB-155	1.11	0.0299	2.70 %	1.13	1.16	1.10	1.08	1.09	1.10
13C-PCB-155	1.09	0.0331	3.04 %	1.08	1.06	1.05	1.09	1.09	1.15
13C-PCB-111	1.25	0.0232	1.85 %	1.29	1.23	1.23	1.26	1.25	1.26
13C-PCB-101	-	-	- %	-	-	-	-	-	-
PCB-123	1.05	0.0594	5.64 %	1.10	0.96	1.02	1.03	1.11	1.10
13C-PCB-123	1.20	0.0903	7.51 %	1.16	1.14	1.13	1.17	1.26	1.36
PCB-118	1.07	0.0668	6.26 %	1.15	1.01	0.97	1.05	1.10	1.11
13C-PCB-118	1.31	0.0467	3.56 %	1.29	1.26	1.31	1.29	1.33	1.40
PCB-114	1.08	0.0497	4.59 %	1.17	1.06	1.05	1.04	1.09	1.10
13C-PCB-114	1.23	0.0671	5.44 %	1.20	1.16	1.19	1.22	1.30	1.33
PCB-105	1.08	0.0285	2.64 %	1.12	1.10	1.05	1.05	1.07	1.09
13C-PCB-105	1.24	0.0676	5.45 %	1.23	1.17	1.18	1.22	1.29	1.35
PCB-126	1.07	0.0569	5.33 %	1.16	1.03	1.01	1.05	1.05	1.12
13C-PCB-126	1.17	0.0581	4.96 %	1.11	1.15	1.18	1.12	1.19	1.27
PCB-167	0.98	0.0399	4.07 %	1.02	0.92	0.94	0.99	1.00	1.01
13C-PCB-167	1.24	0.0563	4.54 %	1.23	1.19	1.18	1.23	1.29	1.32
PCB-156	1.01	0.0204	2.02 %	1.04	0.99	0.99	1.00	1.02	1.03
13C-PCB-156	1.18	0.0698	5.92 %	1.17	1.11	1.10	1.17	1.24	1.28
PCB-157	0.96	0.0298	3.09 %	0.97	0.92	0.93	0.98	0.98	0.98
13C-PCB-157	1.22	0.0554	4.52 %	1.22	1.17	1.18	1.19	1.27	1.31
PCB-169	1.00	0.0446	4.47 %	1.09	0.98	0.96	0.98	0.99	0.99
13C-PCB-169	1.11	0.0792	7.15 %	1.12	1.01	1.04	1.10	1.17	1.22
PCB-188	1.09	0.0340	3.11 %	1.14	1.13	1.08	1.06	1.07	1.07
13C-PCB-188	1.22	0.105	8.61 %	1.25	1.09	1.11	1.24	1.30	1.36
PCB-189	1.14	0.0734	6.44 %	1.29	1.13	1.10	1.12	1.11	1.09
13C-PCB-189	0.97	0.0705	7.28 %	0.98	0.89	0.89	0.95	1.04	1.06
PCB-202	1.05	0.0311	2.95 %	1.12	1.06	1.03	1.04	1.05	1.04
13C-PCB-202	0.88	0.0771	8.80 %	0.87	0.78	0.81	0.87	0.95	0.98
13C-PCB-178	0.77	0.0487	6.32 %	0.79	0.71	0.71	0.78	0.82	0.81
13C-PCB-138	-	-	- %	-	-	-	-	-	-

PCB-205	1.02	0.0843	8.29	%	1.09	0.92	0.91	1.01	1.09	1.07
13C-PCB-205	1.38	0.0559	4.05	%	1.32	1.43	1.44	1.32	1.35	1.42
PCB-208	0.93	0.0183	1.97	%	0.96	0.94	0.93	0.90	0.93	0.93
13C-PCB-208	1.31	0.113	8.63	%	1.29	1.16	1.26	1.31	1.35	1.51
PCB-206	0.94	0.0197	2.11	%	0.97	0.93	0.91	0.93	0.94	0.94
13C-PCB-206	1.01	0.0466	4.60	%	1.01	0.97	0.96	1.03	1.01	1.09
PCB-209	1.10	0.109	9.87	%	1.25	0.98	0.97	1.14	1.14	1.14
13C-PCB-209	1.34	0.0712	5.32	%	1.28	1.44	1.41	1.30	1.26	1.33
13C-PCB-194	-	-	-	%	-	-	-	-	-	-

Analyst: _____ Date: 8/12/16

Run #1 Filename 11AUG16Z S: 2 Acquired: 11-AUG-16 12:25:59 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z0 Analyte: FAL ID: 1668 CS0 R151116A CS0001

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	0.20	2.49e+05	3.29 y	14:28	-	1.15	y
2	IS/RT	13C-PCB-1	100.00	1.08e+08	3.11 y	14:27	-	1.12	y
3	Unk	PCB-3	0.20	2.32e+05	3.25 y	16:54	-	1.15	y
4	IS/RT	13C-PCB-3	100.00	1.01e+08	3.12 y	16:53	-	1.04	y
5	Unk	PCB-4	0.20	1.55e+05	1.34 y	18:07	-	1.20	y
6	IS/RT	13C-PCB-4	100.00	6.45e+07	1.58 y	18:06	-	0.668	y
7	Unk	PCB-15	0.20	2.00e+05	1.52 y	23:40	-	1.08	y
8	IS/RT	13C-PCB-15	100.00	9.25e+07	1.59 y	23:39	-	0.957	y
9	Unk	PCB-19	0.20	1.60e+05	1.18 y	22:00	-	1.36	y
10	IS/RT	13C-PCB-19	100.00	5.88e+07	1.10 y	21:58	-	0.609	y
11	RS	13C-PCB-9	100.00	9.67e+07	1.59 y	19:46	9.67e+05	-	n
12	Unk	PCB-37	0.20	1.75e+05	1.07 y	30:19	-	1.11	y
13	IS	13C-PCB-37	100.00	7.84e+07	1.08 y	30:18	-	1.32	y
14	Unk	PCB-54	0.20	1.52e+05	0.77 y	25:31	-	1.04	y
15	IS/RT	13C-PCB-54	100.00	7.32e+07	0.80 y	25:29	-	1.24	y
16	Unk	PCB-104	0.20	1.37e+05	1.44 y	29:57	-	1.29	y
17	IS	13C-PCB-104	100.00	5.29e+07	1.59 y	29:56	-	0.894	y
18	C/Up	13C-PCB-28	100.00	8.66e+07	1.06 y	26:35	-	1.46	y
19	RS	13C-PCB-52	100.00	5.92e+07	0.78 y	28:50	5.92e+05	-	n
20	Unk	PCB-81	0.20	1.54e+05	0.81 y	36:04	-	1.24	y
21	IS	13C-PCB-81	100.00	6.20e+07	0.80 y	36:03	-	1.21	y
22	Unk	PCB-77	0.20	1.43e+05	0.75 y	36:38	-	1.11	y
23	IS/RT	13C-PCB-77	100.00	6.40e+07	0.80 y	36:37	-	1.25	y
24	Unk	PCB-155	0.20	1.26e+05	1.32 y	34:06	-	1.13	y
25	IS	13C-PCB-155	100.00	5.57e+07	1.27 y	34:05	-	1.08	y
26	C/Up	13C-PCB-111	100.00	6.63e+07	1.58 y	36:10	-	1.29	y
27	RS	13C-PCB-101	100.00	5.14e+07	1.61 y	34:32	5.14e+05	-	n
28	Unk	PCB-123	0.20	1.22e+05	1.57 y	38:14	-	1.10	y
29	IS	13C-PCB-123	100.00	5.53e+07	1.57 y	38:13	-	1.16	y
30	Unk	PCB-118	0.20	1.41e+05	1.39 y	38:24	-	1.15	y
31	IS	13C-PCB-118	100.00	6.13e+07	1.57 y	38:24	-	1.29	y
32	Unk	PCB-114	0.20	1.34e+05	1.32 y	39:02	-	1.17	y
33	IS	13C-PCB-114	100.00	5.73e+07	1.57 y	39:00	-	1.20	y
34	Unk	PCB-105	0.20	1.31e+05	1.42 y	39:51	-	1.12	y
35	IS	13C-PCB-105	100.00	5.86e+07	1.59 y	39:50	-	1.23	y
36	Unk	PCB-126	0.20	1.23e+05	1.40 y	42:00	-	1.16	y
37	IS	13C-PCB-126	100.00	5.31e+07	1.57 y	41:58	-	1.11	y
38	Unk	PCB-167	0.20	1.20e+05	1.37 y	43:19	-	1.02	y
39	IS	13C-PCB-167	100.00	5.87e+07	1.25 y	43:17	-	1.23	y
40	Unk	PCB-156	0.20	1.16e+05	1.32 y	44:33	-	1.04	y
41	IS	13C-PCB-156	100.00	5.59e+07	1.25 y	44:31	-	1.17	y
42	Unk	PCB-157	0.20	1.13e+05	1.37 y	44:48	-	0.973	y
43	IS	13C-PCB-157	100.00	5.81e+07	1.27 y	44:48	-	1.22	y
44	Unk	PCB-169	0.20	1.16e+05	1.19 y	46:41	-	1.09	y
45	IS	13C-PCB-169	100.00	5.32e+07	1.27 y	46:41	-	1.12	y
46	Unk	PCB-188	0.20	1.36e+05	1.01 y	39:35	-	1.14	y
47	IS	13C-PCB-188	100.00	5.94e+07	1.06 y	39:35	-	1.25	y
48	Unk	PCB-189	0.20	1.20e+05	1.04 y	48:20	-	1.29	y
49	IS	13C-PCB-189	100.00	4.67e+07	1.04 y	48:20	-	0.981	y
50	Unk	PCB-202	0.20	9.21e+04	0.78 y	44:43	-	1.12	y
51	IS	13C-PCB-202	100.00	4.13e+07	0.91 y	44:41	-	0.867	y
52	C/Up	13C-PCB-178	100.00	3.74e+07	1.05 y	42:13	-	0.785	y
53	RS	13C-PCB-138	100.00	4.76e+07	1.26 y	41:27	4.76e+05	-	n

54	Unk	PCB-205	0.20	1.02e+05	0.82 y	50:01	-	1.09	y	
55	IS	13C-PCB-205	100.00	4.66e+07	0.91 y	49:59	-	1.32	y	
56	Unk	PCB-208	0.20	8.70e+04	1.50 y	49:04	-	0.960	y	
57	IS	13C-PCB-208	100.00	4.53e+07	0.79 y	49:03	-	1.29	y	
58	Unk	PCB-206	0.20	6.89e+04	1.34 y	51:11	-	0.972	y	
59	IS	13C-PCB-206	100.00	3.55e+07	0.77 y	51:10	-	1.01	y	
60	Unk	PCB-209	0.20	1.13e+05	1.19 y	52:22	-	1.25	y	
61	IS	13C-PCB-209	100.00	4.52e+07	1.20 y	52:21	-	1.28	y	
62	RS	13C-PCB-194	100.00	3.53e+07	0.91 y	49:44	3.53e+05	-	n	

Analyst: [illegible] Date: 8/12/16

Run #2 Filename 11AUG16Z S: 3 Acquired: 11-AUG-16 13:25:54 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z1 Analyte: FAL ID: 1668 CS1 R121023B CS0101

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	1.00	1.93e+06	3.03 y	14:26	-	1.09	y
2	IS/RT	13C-PCB-1	100.00	1.77e+08	3.11 y	14:25	-	1.11	y
3	Unk	PCB-3	1.00	1.88e+06	3.01 y	16:53	-	1.09	y
4	IS/RT	13C-PCB-3	100.00	1.72e+08	3.06 y	16:51	-	1.08	y
5	Unk	PCB-4	1.00	1.22e+06	1.43 y	18:06	-	1.14	y
6	IS/RT	13C-PCB-4	100.00	1.07e+08	1.58 y	18:05	-	0.676	y
7	Unk	PCB-15	1.00	1.78e+06	1.57 y	23:38	-	1.10	y
8	IS/RT	13C-PCB-15	100.00	1.63e+08	1.59 y	23:38	-	1.03	y
9	Unk	PCB-19	1.00	1.11e+06	1.08 y	21:59	-	1.17	y
10	IS/RT	13C-PCB-19	100.00	9.46e+07	1.12 y	21:57	-	0.597	y
11	RS	13C-PCB-9	100.00	1.59e+08	1.59 y	19:45	1.59e+06	-	n
12	Unk	PCB-37	1.00	1.49e+06	1.06 y	30:18	-	1.16	y
13	IS	13C-PCB-37	100.00	1.28e+08	1.06 y	30:16	-	1.33	y
14	Unk	PCB-54	1.00	1.27e+06	0.77 y	25:31	-	1.06	y
15	IS/RT	13C-PCB-54	100.00	1.20e+08	0.79 y	25:29	-	1.25	y
16	Unk	PCB-104	1.00	1.00e+06	1.53 y	29:56	-	1.19	y
17	IS	13C-PCB-104	100.00	8.45e+07	1.60 y	29:55	-	0.882	y
18	C/Up	13C-PCB-28	100.00	1.41e+08	1.07 y	26:34	-	1.47	y
19	RS	13C-PCB-52	100.00	9.58e+07	0.79 y	28:49	9.58e+05	-	n
20	Unk	PCB-81	1.00	1.19e+06	0.79 y	36:03	-	1.10	y
21	IS	13C-PCB-81	100.00	1.09e+08	0.78 y	36:01	-	1.30	y
22	Unk	PCB-77	1.00	1.09e+06	0.86 y	36:37	-	1.11	y
23	IS/RT	13C-PCB-77	100.00	9.75e+07	0.79 y	36:35	-	1.16	y
24	Unk	PCB-155	1.00	1.03e+06	1.28 y	34:05	-	1.16	y
25	IS	13C-PCB-155	100.00	8.88e+07	1.27 y	34:04	-	1.06	y
26	C/Up	13C-PCB-111	100.00	1.03e+08	1.59 y	36:09	-	1.23	y
27	RS	13C-PCB-101	100.00	8.39e+07	1.62 y	34:30	8.39e+05	-	n
28	Unk	PCB-123	1.00	9.33e+05	1.44 y	38:13	-	0.959	y
29	IS	13C-PCB-123	100.00	9.74e+07	1.57 y	38:13	-	1.14	y
30	Unk	PCB-118	1.00	1.09e+06	1.50 y	38:24	-	1.01	y
31	IS	13C-PCB-118	100.00	1.08e+08	1.58 y	38:22	-	1.26	y
32	Unk	PCB-114	1.00	1.04e+06	1.51 y	39:00	-	1.06	y
33	IS	13C-PCB-114	100.00	9.89e+07	1.58 y	39:00	-	1.16	y
34	Unk	PCB-105	1.00	1.10e+06	1.51 y	39:50	-	1.10	y
35	IS	13C-PCB-105	100.00	1.00e+08	1.60 y	39:48	-	1.17	y
36	Unk	PCB-126	1.00	1.01e+06	1.46 y	41:58	-	1.03	y
37	IS	13C-PCB-126	100.00	9.86e+07	1.60 y	41:56	-	1.15	y
38	Unk	PCB-167	1.00	9.34e+05	1.22 y	43:19	-	0.921	y
39	IS	13C-PCB-167	100.00	1.01e+08	1.24 y	43:17	-	1.19	y
40	Unk	PCB-156	1.00	9.37e+05	1.25 y	44:33	-	0.987	y
41	IS	13C-PCB-156	100.00	9.49e+07	1.25 y	44:31	-	1.11	y
42	Unk	PCB-157	1.00	9.20e+05	1.22 y	44:48	-	0.918	y
43	IS	13C-PCB-157	100.00	1.00e+08	1.25 y	44:46	-	1.17	y
44	Unk	PCB-169	1.00	8.46e+05	1.28 y	46:41	-	0.983	y
45	IS	13C-PCB-169	100.00	8.61e+07	1.26 y	46:40	-	1.01	y
46	Unk	PCB-188	1.00	1.05e+06	1.06 y	39:35	-	1.13	y
47	IS	13C-PCB-188	100.00	9.27e+07	1.05 y	39:33	-	1.09	y
48	Unk	PCB-189	1.00	8.61e+05	1.04 y	48:20	-	1.13	y
49	IS	13C-PCB-189	100.00	7.62e+07	1.05 y	48:20	-	0.892	y
50	Unk	PCB-202	1.00	7.07e+05	0.90 y	44:41	-	1.06	y
51	IS	13C-PCB-202	100.00	6.69e+07	0.91 y	44:39	-	0.784	y
52	C/Up	13C-PCB-178	100.00	6.07e+07	1.04 y	42:11	-	0.711	y
53	RS	13C-PCB-138	100.00	8.54e+07	1.26 y	41:25	8.54e+05	-	n

54	Unk	PCB-205	1.00	7.88e+05	0.88 y	49:59	-	0.924	y	
55	IS	13C-PCB-205	100.00	8.53e+07	0.91 y	49:59	-	1.43	y	
56	Unk	PCB-208	1.00	6.53e+05	1.41 y	49:04	-	0.939	y	
57	IS	13C-PCB-208	100.00	6.95e+07	0.79 y	49:03	-	1.16	y	
58	Unk	PCB-206	1.00	5.38e+05	1.32 y	51:11	-	0.926	y	
59	IS	13C-PCB-206	100.00	5.81e+07	0.78 y	51:10	-	0.973	y	
60	Unk	PCB-209	1.00	8.45e+05	1.16 y	52:21	-	0.982	y	
61	IS	13C-PCB-209	100.00	8.61e+07	1.21 y	52:21	-	1.44	y	
62	RS	13C-PCB-194	100.00	5.98e+07	0.92 y	49:44	5.98e+05	-	n	

Analyst: [illegible] Date: 8/12/16

Run #3 Filename 11AUG16Z S: 4 Acquired: 11-AUG-16 14:25:51 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z2 Analyte: FAL ID: 1668 CS2 R130426B CS0201

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	5.00	1.17e+07	3.09	y	14:27	-	1.02	y
2	IS/RT	13C-PCB-1	100.00	2.30e+08	3.11	y	14:26	-	1.14	y
3	Unk	PCB-3	5.00	1.14e+07	3.11	y	16:52	-	1.02	y
4	IS/RT	13C-PCB-3	100.00	2.23e+08	3.06	y	16:52	-	1.10	y
5	Unk	PCB-4	5.00	7.52e+06	1.51	y	18:06	-	1.13	y
6	IS/RT	13C-PCB-4	100.00	1.33e+08	1.59	y	18:04	-	0.661	y
7	Unk	PCB-15	5.00	1.11e+07	1.61	y	23:39	-	1.07	y
8	IS/RT	13C-PCB-15	100.00	2.08e+08	1.60	y	23:38	-	1.03	y
9	Unk	PCB-19	5.00	6.64e+06	1.04	y	21:59	-	1.12	y
10	IS/RT	13C-PCB-19	100.00	1.18e+08	1.10	y	21:57	-	0.586	y
11	RS	13C-PCB-9	100.00	2.02e+08	1.57	y	19:46	2.02e+06	-	n
12	Unk	PCB-37	5.00	9.61e+06	1.07	y	30:17	-	1.15	y
13	IS	13C-PCB-37	100.00	1.67e+08	1.10	y	30:15	-	1.39	y
14	Unk	PCB-54	5.00	7.91e+06	0.78	y	25:31	-	1.05	y
15	IS/RT	13C-PCB-54	100.00	1.50e+08	0.79	y	25:28	-	1.25	y
16	Unk	PCB-104	5.00	5.89e+06	1.58	y	29:56	-	1.09	y
17	IS	13C-PCB-104	100.00	1.09e+08	1.59	y	29:54	-	0.906	y
18	C/Up	13C-PCB-28	100.00	1.90e+08	1.17	y	26:34	-	1.59	y
19	RS	13C-PCB-52	100.00	1.20e+08	0.78	y	28:49	1.20e+06	-	n
20	Unk	PCB-81	5.00	7.65e+06	0.77	y	36:03	-	1.09	y
21	IS	13C-PCB-81	100.00	1.40e+08	0.79	y	36:01	-	1.31	y
22	Unk	PCB-77	5.00	7.47e+06	0.79	y	36:37	-	1.10	y
23	IS/RT	13C-PCB-77	100.00	1.35e+08	0.79	y	36:36	-	1.27	y
24	Unk	PCB-155	5.00	6.21e+06	1.27	y	34:05	-	1.10	y
25	IS	13C-PCB-155	100.00	1.13e+08	1.26	y	34:04	-	1.05	y
26	C/Up	13C-PCB-111	100.00	1.32e+08	1.59	y	36:09	-	1.23	y
27	RS	13C-PCB-101	100.00	1.07e+08	1.59	y	34:30	1.07e+06	-	n
28	Unk	PCB-123	5.00	6.20e+06	1.52	y	38:13	-	1.02	y
29	IS	13C-PCB-123	100.00	1.22e+08	1.57	y	38:12	-	1.13	y
30	Unk	PCB-118	5.00	6.85e+06	1.52	y	38:23	-	0.971	y
31	IS	13C-PCB-118	100.00	1.41e+08	1.61	y	38:23	-	1.31	y
32	Unk	PCB-114	5.00	6.76e+06	1.54	y	39:01	-	1.05	y
33	IS	13C-PCB-114	100.00	1.29e+08	1.58	y	38:59	-	1.19	y
34	Unk	PCB-105	5.00	6.69e+06	1.53	y	39:50	-	1.05	y
35	IS	13C-PCB-105	100.00	1.28e+08	1.60	y	39:49	-	1.18	y
36	Unk	PCB-126	5.00	6.45e+06	1.56	y	41:57	-	1.01	y
37	IS	13C-PCB-126	100.00	1.27e+08	1.60	y	41:57	-	1.18	y
38	Unk	PCB-167	5.00	5.99e+06	1.22	y	43:18	-	0.940	y
39	IS	13C-PCB-167	100.00	1.27e+08	1.25	y	43:18	-	1.18	y
40	Unk	PCB-156	5.00	5.91e+06	1.28	y	44:32	-	0.992	y
41	IS	13C-PCB-156	100.00	1.19e+08	1.24	y	44:30	-	1.10	y
42	Unk	PCB-157	5.00	5.93e+06	1.24	y	44:47	-	0.932	y
43	IS	13C-PCB-157	100.00	1.27e+08	1.24	y	44:47	-	1.18	y
44	Unk	PCB-169	5.00	5.37e+06	1.24	y	46:40	-	0.960	y
45	IS	13C-PCB-169	100.00	1.12e+08	1.25	y	46:40	-	1.04	y
46	Unk	PCB-188	5.00	6.50e+06	1.07	y	39:34	-	1.08	y
47	IS	13C-PCB-188	100.00	1.20e+08	1.06	y	39:34	-	1.11	y
48	Unk	PCB-189	5.00	5.29e+06	1.06	y	48:21	-	1.10	y
49	IS	13C-PCB-189	100.00	9.65e+07	1.06	y	48:19	-	0.893	y
50	Unk	PCB-202	5.00	4.47e+06	0.88	y	44:42	-	1.03	y
51	IS	13C-PCB-202	100.00	8.70e+07	0.91	y	44:40	-	0.805	y
52	C/Up	13C-PCB-178	100.00	7.68e+07	1.05	y	42:12	-	0.711	y
53	RS	13C-PCB-138	100.00	1.08e+08	1.25	y	41:26	1.08e+06	-	n

54	Unk	PCB-205	5.00	4.98e+06	0.87 y	49:59	-	0.908	y	
55	IS	13C-PCB-205	100.00	1.10e+08	0.90 y	49:58	-	1.44	y	
56	Unk	PCB-208	5.00	4.43e+06	1.43 y	49:03	-	0.926	y	
57	IS	13C-PCB-208	100.00	9.57e+07	0.79 y	49:03	-	1.26	y	
58	Unk	PCB-206	5.00	3.34e+06	1.37 y	51:10	-	0.913	y	
59	IS	13C-PCB-206	100.00	7.31e+07	0.78 y	51:10	-	0.962	y	
60	Unk	PCB-209	5.00	5.15e+06	1.19 y	52:21	-	0.965	y	
61	IS	13C-PCB-209	100.00	1.07e+08	1.19 y	52:19	-	1.41	y	
62	RS	13C-PCB-194	100.00	7.60e+07	0.92 y	49:44	7.60e+05	-	n	

Analyst: [illegible] Date: 8/12/16

Run #4 Filename 11AUG16Z S: 1 Acquired: 11-AUG-16 11:26:03 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z3 Analyte: FAL ID: 1668 CS3 R150603A CS0301

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	50.00	6.56e+07	3.10	y	14:26	-	1.02	y
2	IS/RT	13C-PCB-1	100.00	1.29e+08	3.05	y	14:25	-	1.12	y
3	Unk	PCB-3	50.00	6.47e+07	3.15	y	16:52	-	1.00	y
4	IS/RT	13C-PCB-3	100.00	1.29e+08	3.19	y	16:51	-	1.12	y
5	Unk	PCB-4	50.00	4.08e+07	1.52	y	18:05	-	1.07	y
6	IS/RT	13C-PCB-4	100.00	7.61e+07	1.56	y	18:04	-	0.657	y
7	Unk	PCB-15	50.00	6.23e+07	1.56	y	23:39	-	1.06	y
8	IS/RT	13C-PCB-15	100.00	1.17e+08	1.57	y	23:38	-	1.01	y
9	Unk	PCB-19	50.00	3.92e+07	1.04	y	21:59	-	1.11	y
10	IS/RT	13C-PCB-19	100.00	7.06e+07	1.09	y	21:57	-	0.610	y
11	RS	13C-PCB-9	100.00	1.16e+08	1.59	y	19:45	1.16e+06	-	n
12	Unk	PCB-37	50.00	5.25e+07	1.04	y	30:18	-	1.09	y
13	IS	13C-PCB-37	100.00	9.62e+07	1.14	y	30:16	-	1.34	y
14	Unk	PCB-54	50.00	4.61e+07	0.78	y	25:31	-	1.05	y
15	IS/RT	13C-PCB-54	100.00	8.82e+07	0.79	y	25:29	-	1.23	y
16	Unk	PCB-104	50.00	3.51e+07	1.56	y	29:56	-	1.09	y
17	IS	13C-PCB-104	100.00	6.45e+07	1.60	y	29:55	-	0.898	y
18	C/Up	13C-PCB-28	100.00	1.06e+08	1.10	y	26:34	-	1.47	y
19	RS	13C-PCB-52	100.00	7.18e+07	0.78	y	28:51	7.18e+05	-	n
20	Unk	PCB-81	50.00	4.21e+07	0.78	y	36:04	-	1.12	y
21	IS	13C-PCB-81	100.00	7.50e+07	0.79	y	36:03	-	1.22	y
22	Unk	PCB-77	50.00	4.15e+07	0.78	y	36:37	-	1.06	y
23	IS/RT	13C-PCB-77	100.00	7.80e+07	0.80	y	36:37	-	1.27	y
24	Unk	PCB-155	50.00	3.60e+07	1.27	y	34:06	-	1.08	y
25	IS	13C-PCB-155	100.00	6.68e+07	1.26	y	34:05	-	1.09	y
26	C/Up	13C-PCB-111	100.00	7.73e+07	1.58	y	36:10	-	1.26	y
27	RS	13C-PCB-101	100.00	6.14e+07	1.60	y	34:32	6.14e+05	-	n
28	Unk	PCB-123	50.00	3.39e+07	1.51	y	38:15	-	1.03	y
29	IS	13C-PCB-123	100.00	6.56e+07	1.57	y	38:13	-	1.17	y
30	Unk	PCB-118	50.00	3.82e+07	1.52	y	38:25	-	1.05	y
31	IS	13C-PCB-118	100.00	7.25e+07	1.58	y	38:23	-	1.29	y
32	Unk	PCB-114	50.00	3.56e+07	1.53	y	39:01	-	1.04	y
33	IS	13C-PCB-114	100.00	6.87e+07	1.58	y	39:01	-	1.22	y
34	Unk	PCB-105	50.00	3.61e+07	1.54	y	39:50	-	1.05	y
35	IS	13C-PCB-105	100.00	6.87e+07	1.60	y	39:49	-	1.22	y
36	Unk	PCB-126	50.00	3.31e+07	1.58	y	41:59	-	1.05	y
37	IS	13C-PCB-126	100.00	6.32e+07	1.57	y	41:59	-	1.12	y
38	Unk	PCB-167	50.00	3.42e+07	1.23	y	43:19	-	0.992	y
39	IS	13C-PCB-167	100.00	6.90e+07	1.25	y	43:18	-	1.23	y
40	Unk	PCB-156	50.00	3.30e+07	1.22	y	44:33	-	1.00	y
41	IS	13C-PCB-156	100.00	6.60e+07	1.27	y	44:32	-	1.17	y
42	Unk	PCB-157	50.00	3.30e+07	1.25	y	44:48	-	0.983	y
43	IS	13C-PCB-157	100.00	6.71e+07	1.25	y	44:46	-	1.19	y
44	Unk	PCB-169	50.00	3.04e+07	1.28	y	46:42	-	0.984	y
45	IS	13C-PCB-169	100.00	6.18e+07	1.24	y	46:42	-	1.10	y
46	Unk	PCB-188	50.00	3.71e+07	1.05	y	39:35	-	1.06	y
47	IS	13C-PCB-188	100.00	6.98e+07	1.06	y	39:34	-	1.24	y
48	Unk	PCB-189	50.00	3.02e+07	1.06	y	48:22	-	1.12	y
49	IS	13C-PCB-189	100.00	5.37e+07	1.04	y	48:20	-	0.954	y
50	Unk	PCB-202	50.00	2.56e+07	0.88	y	44:43	-	1.04	y
51	IS	13C-PCB-202	100.00	4.92e+07	0.91	y	44:42	-	0.875	y
52	C/Up	13C-PCB-178	100.00	4.39e+07	1.05	y	42:13	-	0.781	y
53	RS	13C-PCB-138	100.00	5.63e+07	1.25	y	41:26	5.63e+05	-	n

54	Unk	PCB-205	50.00	2.70e+07	0.88 y	50:01	-	1.01	y	
55	IS	13C-PCB-205	100.00	5.33e+07	0.90 y	49:59	-	1.32	y	
56	Unk	PCB-208	50.00	2.39e+07	1.45 y	49:04	-	0.904	y	
57	IS	13C-PCB-208	100.00	5.30e+07	0.79 y	49:03	-	1.31	y	
58	Unk	PCB-206	50.00	1.94e+07	1.40 y	51:11	-	0.934	y	
59	IS	13C-PCB-206	100.00	4.16e+07	0.79 y	51:10	-	1.03	y	
60	Unk	PCB-209	50.00	2.98e+07	1.18 y	52:22	-	1.14	y	
61	IS	13C-PCB-209	100.00	5.25e+07	1.20 y	52:21	-	1.30	y	
62	RS	13C-PCB-194	100.00	4.03e+07	0.90 y	49:44	4.03e+05	-	n	

Analyst: [illegible] Date: 5/12/16

Run #5 Filename 11AUG16Z S: 5 Acquired: 11-AUG-16 15:25:47 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z4 Analyte: FAL ID: 1668 CS4 R151116B CS0401

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	400.00	6.07e+08	3.22 y	14:26	-	1.04	y
2	IS/RT	13C-PCB-1	100.00	1.47e+08	3.05 y	14:25	-	1.12	y
3	Unk	PCB-3	400.00	5.90e+08	3.10 y	16:52	-	1.01	y
4	IS/RT	13C-PCB-3	100.00	1.46e+08	3.20 y	16:51	-	1.11	y
5	Unk	PCB-4	400.00	4.09e+08	1.57 y	18:06	-	1.14	y
6	IS/RT	13C-PCB-4	100.00	9.00e+07	1.57 y	18:04	-	0.685	y
7	Unk	PCB-15	400.00	6.01e+08	1.57 y	23:38	-	1.11	y
8	IS/RT	13C-PCB-15	100.00	1.35e+08	1.58 y	23:37	-	1.03	y
9	Unk	PCB-19	400.00	3.63e+08	1.04 y	21:59	-	1.10	y
10	IS/RT	13C-PCB-19	100.00	8.25e+07	1.10 y	21:57	-	0.628	y
11	RS	13C-PCB-9	100.00	1.31e+08	1.60 y	19:46	1.31e+06	-	n
12	Unk	PCB-37	400.00	5.21e+08	1.01 y	30:17	-	1.14	y
13	IS	13C-PCB-37	100.00	1.14e+08	1.09 y	30:15	-	1.40	y
14	Unk	PCB-54	400.00	4.28e+08	0.78 y	25:31	-	1.05	y
15	IS/RT	13C-PCB-54	100.00	1.02e+08	0.79 y	25:30	-	1.25	y
16	Unk	PCB-104	400.00	3.30e+08	1.58 y	29:56	-	1.10	y
17	IS	13C-PCB-104	100.00	7.48e+07	1.60 y	29:55	-	0.919	y
18	C/Up	13C-PCB-28	100.00	1.19e+08	1.07 y	26:35	-	1.46	y
19	RS	13C-PCB-52	100.00	8.14e+07	0.79 y	28:49	8.14e+05	-	n
20	Unk	PCB-81	400.00	4.07e+08	0.77 y	36:01	-	1.14	y
21	IS	13C-PCB-81	100.00	8.97e+07	0.80 y	36:01	-	1.25	y
22	Unk	PCB-77	400.00	4.08e+08	0.78 y	36:36	-	1.09	y
23	IS/RT	13C-PCB-77	100.00	9.38e+07	0.80 y	36:34	-	1.31	y
24	Unk	PCB-155	400.00	3.41e+08	1.27 y	34:05	-	1.09	y
25	IS	13C-PCB-155	100.00	7.84e+07	1.27 y	34:04	-	1.09	y
26	C/Up	13C-PCB-111	100.00	8.99e+07	1.60 y	36:09	-	1.25	y
27	RS	13C-PCB-101	100.00	7.17e+07	1.62 y	34:30	7.17e+05	-	n
28	Unk	PCB-123	400.00	3.62e+08	1.54 y	38:13	-	1.11	y
29	IS	13C-PCB-123	100.00	8.19e+07	1.58 y	38:11	-	1.26	y
30	Unk	PCB-118	400.00	3.79e+08	1.54 y	38:23	-	1.10	y
31	IS	13C-PCB-118	100.00	8.62e+07	1.57 y	38:21	-	1.33	y
32	Unk	PCB-114	400.00	3.66e+08	1.54 y	39:01	-	1.09	y
33	IS	13C-PCB-114	100.00	8.39e+07	1.60 y	38:59	-	1.30	y
34	Unk	PCB-105	400.00	3.57e+08	1.54 y	39:49	-	1.07	y
35	IS	13C-PCB-105	100.00	8.36e+07	1.59 y	39:49	-	1.29	y
36	Unk	PCB-126	400.00	3.24e+08	1.53 y	41:57	-	1.05	y
37	IS	13C-PCB-126	100.00	7.74e+07	1.59 y	41:55	-	1.19	y
38	Unk	PCB-167	400.00	3.35e+08	1.24 y	43:18	-	1.00	y
39	IS	13C-PCB-167	100.00	8.36e+07	1.26 y	43:18	-	1.29	y
40	Unk	PCB-156	400.00	3.30e+08	1.24 y	44:32	-	1.02	y
41	IS	13C-PCB-156	100.00	8.06e+07	1.27 y	44:30	-	1.24	y
42	Unk	PCB-157	400.00	3.23e+08	1.26 y	44:47	-	0.983	y
43	IS	13C-PCB-157	100.00	8.20e+07	1.26 y	44:47	-	1.27	y
44	Unk	PCB-169	400.00	2.99e+08	1.25 y	46:40	-	0.989	y
45	IS	13C-PCB-169	100.00	7.56e+07	1.23 y	46:40	-	1.17	y
46	Unk	PCB-188	400.00	3.62e+08	1.05 y	39:35	-	1.07	y
47	IS	13C-PCB-188	100.00	8.43e+07	1.06 y	39:34	-	1.30	y
48	Unk	PCB-189	400.00	2.98e+08	1.06 y	48:21	-	1.11	y
49	IS	13C-PCB-189	100.00	6.71e+07	1.05 y	48:19	-	1.04	y
50	Unk	PCB-202	400.00	2.57e+08	0.89 y	44:42	-	1.05	y
51	IS	13C-PCB-202	100.00	6.14e+07	0.90 y	44:40	-	0.948	y
52	C/Up	13C-PCB-178	100.00	5.33e+07	1.06 y	42:12	-	0.822	y
53	RS	13C-PCB-138	100.00	6.48e+07	1.26 y	41:26	6.48e+05	-	n

54	Unk	PCB-205	400.00	2.92e+08	0.88	y	49:59	-	1.09	y	
55	IS	13C-PCB-205	100.00	6.68e+07	0.91	y	49:58	-	1.35	y	
56	Unk	PCB-208	400.00	2.48e+08	1.42	y	49:03	-	0.928	y	
57	IS	13C-PCB-208	100.00	6.68e+07	0.79	y	49:03	-	1.35	y	
58	Unk	PCB-206	400.00	1.89e+08	1.41	y	51:10	-	0.938	y	
59	IS	13C-PCB-206	100.00	5.04e+07	0.78	y	51:10	-	1.01	y	
60	Unk	PCB-209	400.00	2.86e+08	1.18	y	52:21	-	1.14	y	
61	IS	13C-PCB-209	100.00	6.27e+07	1.19	y	52:19	-	1.26	y	
62	RS	13C-PCB-194	100.00	4.97e+07	0.92	y	49:44	4.97e+05	-	n	

Analyst: [illegible] Date: 8/12/16

Run #6 Filename 11AUG16Z S: 6 Acquired: 11-AUG-16 16:25:44 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z5 Analyte: 1668FAL4-8-11-16 FAL ID: 1668 CS5 R130426C CS0501

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	2000.00	2.77e+09	3.13	y	14:24	-	0.980	y
2	IS/RT	13C-PCB-1	100.00	1.41e+08	3.09	y	14:23	-	1.22	y
3	Unk	PCB-3	2000.00	2.77e+09	3.08	y	16:52	-	1.01	y
4	IS/RT	13C-PCB-3	100.00	1.37e+08	3.12	y	16:51	-	1.19	y
5	Unk	PCB-4	2000.00	1.87e+09	1.57	y	18:06	-	1.14	y
6	IS/RT	13C-PCB-4	100.00	8.19e+07	1.59	y	18:04	-	0.707	y
7	Unk	PCB-15	2000.00	2.84e+09	1.58	y	23:39	-	1.12	y
8	IS/RT	13C-PCB-15	100.00	1.26e+08	1.58	y	23:38	-	1.09	y
9	Unk	PCB-19	2000.00	1.68e+09	1.04	y	21:59	-	1.10	y
10	IS/RT	13C-PCB-19	100.00	7.64e+07	1.09	y	21:58	-	0.659	y
11	RS	13C-PCB-9	100.00	1.16e+08	1.61	y	19:46	1.16e+06	-	n
12	Unk	PCB-37	2000.00	2.50e+09	1.05	y	30:16	-	1.19	y
13	IS	13C-PCB-37	100.00	1.05e+08	1.09	y	30:16	-	1.46	y
14	Unk	PCB-54	2000.00	1.96e+09	0.78	y	25:31	-	1.05	y
15	IS/RT	13C-PCB-54	100.00	9.30e+07	0.79	y	25:29	-	1.30	y
16	Unk	PCB-104	2000.00	1.52e+09	1.56	y	29:57	-	1.10	y
17	IS	13C-PCB-104	100.00	6.89e+07	1.59	y	29:56	-	0.960	y
18	C/Up	13C-PCB-28	100.00	1.04e+08	1.07	y	26:36	-	1.45	y
19	RS	13C-PCB-52	100.00	7.18e+07	0.78	y	28:50	7.18e+05	-	n
20	Unk	PCB-81	2000.00	1.97e+09	0.78	y	36:03	-	1.18	y
21	IS	13C-PCB-81	100.00	8.33e+07	0.80	y	36:01	-	1.33	y
22	Unk	PCB-77	2000.00	1.93e+09	0.77	y	36:37	-	1.13	y
23	IS/RT	13C-PCB-77	100.00	8.57e+07	0.80	y	36:35	-	1.37	y
24	Unk	PCB-155	2000.00	1.57e+09	1.28	y	34:06	-	1.10	y
25	IS	13C-PCB-155	100.00	7.15e+07	1.27	y	34:05	-	1.15	y
26	C/Up	13C-PCB-111	100.00	7.85e+07	1.59	y	36:10	-	1.26	y
27	RS	13C-PCB-101	100.00	6.24e+07	1.60	y	34:32	6.24e+05	-	n
28	Unk	PCB-123	2000.00	1.68e+09	1.54	y	38:14	-	1.10	y
29	IS	13C-PCB-123	100.00	7.67e+07	1.59	y	38:13	-	1.36	y
30	Unk	PCB-118	2000.00	1.75e+09	1.55	y	38:24	-	1.11	y
31	IS	13C-PCB-118	100.00	7.89e+07	1.59	y	38:23	-	1.40	y
32	Unk	PCB-114	2000.00	1.66e+09	1.56	y	39:00	-	1.10	y
33	IS	13C-PCB-114	100.00	7.54e+07	1.59	y	39:00	-	1.33	y
34	Unk	PCB-105	2000.00	1.66e+09	1.54	y	39:50	-	1.09	y
35	IS	13C-PCB-105	100.00	7.61e+07	1.59	y	39:48	-	1.35	y
36	Unk	PCB-126	2000.00	1.61e+09	1.58	y	41:58	-	1.12	y
37	IS	13C-PCB-126	100.00	7.20e+07	1.61	y	41:57	-	1.27	y
38	Unk	PCB-167	2000.00	1.50e+09	1.25	y	43:19	-	1.01	y
39	IS	13C-PCB-167	100.00	7.47e+07	1.25	y	43:17	-	1.32	y
40	Unk	PCB-156	2000.00	1.48e+09	1.24	y	44:33	-	1.03	y
41	IS	13C-PCB-156	100.00	7.22e+07	1.26	y	44:31	-	1.28	y
42	Unk	PCB-157	2000.00	1.46e+09	1.25	y	44:48	-	0.985	y
43	IS	13C-PCB-157	100.00	7.42e+07	1.26	y	44:46	-	1.31	y
44	Unk	PCB-169	2000.00	1.36e+09	1.24	y	46:41	-	0.988	y
45	IS	13C-PCB-169	100.00	6.89e+07	1.26	y	46:40	-	1.22	y
46	Unk	PCB-188	2000.00	1.64e+09	1.05	y	39:35	-	1.07	y
47	IS	13C-PCB-188	100.00	7.66e+07	1.06	y	39:35	-	1.36	y
48	Unk	PCB-189	2000.00	1.31e+09	1.04	y	48:20	-	1.09	y
49	IS	13C-PCB-189	100.00	5.99e+07	1.04	y	48:20	-	1.06	y
50	Unk	PCB-202	2000.00	1.16e+09	0.88	y	44:43	-	1.04	y
51	IS	13C-PCB-202	100.00	5.54e+07	0.90	y	44:41	-	0.981	y
52	C/Up	13C-PCB-178	100.00	4.59e+07	1.06	y	42:13	-	0.813	y
53	RS	13C-PCB-138	100.00	5.65e+07	1.25	y	41:27	5.65e+05	-	n

54	Unk	PCB-205	2000.00	1.25e+09	0.87	y	49:59	-	1.07	y	
55	IS	13C-PCB-205	100.00	5.85e+07	0.92	y	49:59	-	1.42	y	
56	Unk	PCB-208	2000.00	1.16e+09	1.38	y	49:04	-	0.931	y	
57	IS	13C-PCB-208	100.00	6.20e+07	0.78	y	49:03	-	1.51	y	
58	Unk	PCB-206	2000.00	8.49e+08	1.38	y	51:11	-	0.943	y	
59	IS	13C-PCB-206	100.00	4.50e+07	0.78	y	51:10	-	1.09	y	
60	Unk	PCB-209	2000.00	1.25e+09	1.18	y	52:21	-	1.14	y	
61	IS	13C-PCB-209	100.00	5.48e+07	1.20	y	52:21	-	1.33	y	
62	RS	13C-PCB-194	100.00	4.12e+07	0.91	y	49:44	4.12e+05	-	n	

Analyst: _____ Date: 8/10/13

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 11AUG16Z Sam:1 Analysis Date: 11-AUG-16 11:26:03

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.10	2.66-3.60	y	48.3	37.5 - 62.5
PCB-3	M/M+2	3.15	2.66-3.60	y	47.8	37.5 - 62.5
PCB-4	M/M+2	1.52	1.33-1.79	y	47.2	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	48.7	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	47.9	37.5 - 62.5
PCB-37	M/M+2	1.04	0.88-1.20	y	47.8	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	49.8	37.5 - 62.5
PCB-77	M/M+2	0.78	0.65-0.89	y	48.3	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	49.0	37.5 - 62.5
PCB-104	M+2/M+4	1.56	1.32-1.78	y	47.6	37.5 - 62.5
PCB-105	M+2/M+4	1.54	1.32-1.78	y	48.6	37.5 - 62.5
PCB-114	M+2/M+4	1.53	1.32-1.78	y	47.8	37.5 - 62.5
PCB-118	M+2/M+4	1.52	1.32-1.78	y	49.5	37.5 - 62.5
PCB-123	M+2/M+4	1.51	1.32-1.78	y	49.1	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	49.0	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	48.6	37.5 - 62.5
PCB-156	M+2/M+4	1.22	1.05-1.43	y	49.5	37.5 - 62.5
PCB-157	M+2/M+4	1.25	1.05-1.43	y	51.1	37.5 - 62.5
PCB-167	M+2/M+4	1.23	1.05-1.43	y	50.6	37.5 - 62.5
PCB-169	M+2/M+4	1.28	1.05-1.43	y	49.3	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	48.7	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	49.3	37.5 - 62.5
PCB-202	M+2/M+4	0.88	0.76-1.02	y	49.3	37.5 - 62.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	49.7	37.5 - 62.5
PCB-206	M+4/M+6	1.40	1.13-1.53	y	49.8	37.5 - 62.5
PCB-208	M+4/M+6	1.45	1.13-1.53	y	48.5	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	51.5	37.5 - 62.5

Analyst: [signature] Date: 8/12/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 11AUG16Z Sam:1 Analysis Date: 11-AUG-16 11:26:03

	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	98.2	50.0 - 145
13C-PCB-3	M/M+2	3.19	2.66-3.60	y	101	50.0 - 145
13C-PCB-4	M/M+2	1.56	1.33-1.79	y	97.2	50.0 - 145
13C-PCB-15	M/M+2	1.57	1.33-1.79	y	98.9	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	99.2	50.0 - 145
13C-PCB-37	M/M+2	1.14	0.88-1.20	y	97.4	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	98.0	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	100.0	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	96.2	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	98.7	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	98.5	50.0 - 145
13C-PCB-114	M+2/M+4	1.58	1.32-1.78	y	99.0	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	98.2	50.0 - 145
13C-PCB-123	M+2/M+4	1.57	1.32-1.78	y	96.9	50.0 - 145
13C-PCB-126	M+2/M+4	1.57	1.32-1.78	y	95.7	50.0 - 145
13C-PCB-155	M+2/M+4	1.26	1.05-1.43	y	100	50.0 - 145
13C-PCB-156	M+2/M+4	1.27	1.05-1.43	y	99.4	50.0 - 145
13C-PCB-157	M+2/M+4	1.25	1.05-1.43	y	97.4	50.0 - 145
13C-PCB-167	M+2/M+4	1.25	1.05-1.43	y	98.8	50.0 - 145
13C-PCB-169	M+2/M+4	1.24	1.05-1.43	y	99.2	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	101	50.0 - 145
13C-PCB-189	M+2/M+4	1.04	0.89-1.21	y	98.4	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	99.8	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	95.9	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	102	50.0 - 145
13C-PCB-208	M+2/M+4	0.79	0.65-0.89	y	100	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	97.3	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.10	0.88-1.20	y	99.2	65.0 - 135
13C-PCB-111	M+2/M+4	1.58	1.32-1.78	y	101	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	101	75.0 - 125

Analyst: _____ Date: 8/18/16

FAL ID: ST081116Z3 Filename: 11AUG16Z Sam:1 Acquired: 11-AUG-16 11:26:03 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R150603A CS0301 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	6.56e+07	3.10 y	14:26	1.05	48.3		2.50	-	-	*	-
13C-PCB-1	1.29e+08	3.05 y	14:25	1.14	98.2		2.50				98.2
PCB-3	6.47e+07	3.15 y	16:52	1.05	47.8		2.50	-	-	*	-
13C-PCB-3	1.29e+08	3.19 y	16:51	1.11	101		2.50				101
PCB-4	4.08e+07	1.52 y	18:05	1.14	47.2		2.50	-	-	*	-
13C-PCB-4	7.61e+07	1.56 y	18:04	0.68	97.2		2.50				97.2
PCB-15	6.23e+07	1.56 y	23:39	1.09	48.7		2.50	-	-	*	-
13C-PCB-15	1.17e+08	1.57 y	23:38	1.02	98.9		2.50				98.9
PCB-19	3.92e+07	1.04 y	21:59	1.16	47.9		2.50	-	-	*	-
13C-PCB-19	7.06e+07	1.09 y	21:57	0.61	99.2		2.50				99.2
13C-PCB-9	1.16e+08	1.59 y	19:45	-	84.8		2.50				
PCB-37	5.25e+07	1.04 y	30:18	1.14	47.8		2.50	-	-	*	-
13C-PCB-37	9.62e+07	1.14 y	30:16	1.38	97.4		2.50				97.4
PCB-54	4.61e+07	0.78 y	25:31	1.05	49.8		2.50	-	-	*	-
13C-PCB-54	8.82e+07	0.79 y	25:29	1.25	98.0		2.50				98.0
PCB-104	3.51e+07	1.56 y	29:56	1.14	47.6		2.50	-	-	*	-
13C-PCB-104	6.45e+07	1.60 y	29:55	0.91	98.7		2.50				98.7
13C-PCB-28	1.06e+08	1.10 y	26:34	1.48	99.2		2.50				99.2
13C-PCB-52	7.18e+07	0.78 y	28:51	-	86.2		2.50				
PCB-81	4.21e+07	0.78 y	36:04	1.14	49.0		2.50	-	-	*	-
13C-PCB-81	7.50e+07	0.79 y	36:03	1.27	96.2		2.50				96.2
PCB-77	4.15e+07	0.78 y	36:37	1.10	48.3		2.50	-	-	*	-
13C-PCB-77	7.80e+07	0.80 y	36:37	1.27	100.0		2.50				100.0
PCB-155	3.60e+07	1.27 y	34:06	1.11	48.6		2.50	-	-	*	-
13C-PCB-155	6.68e+07	1.26 y	34:05	1.09	100		2.50				100
13C-PCB-111	7.73e+07	1.58 y	36:10	1.25	101		2.50				101
13C-PCB-101	6.14e+07	1.60 y	34:32	-	84.1		2.50				
PCB-123	3.39e+07	1.51 y	38:15	1.05	49.1		2.50	-	-	*	-
13C-PCB-123	6.56e+07	1.57 y	38:13	1.20	96.9		2.50				96.9
PCB-118	3.82e+07	1.52 y	38:25	1.07	49.5		2.50	-	-	*	-
13C-PCB-118	7.25e+07	1.58 y	38:23	1.31	98.2		2.50				98.2
PCB-114	3.56e+07	1.53 y	39:01	1.08	47.8		2.50	-	-	*	-
13C-PCB-114	6.87e+07	1.58 y	39:01	1.23	99.0		2.50				99.0
PCB-105	3.61e+07	1.54 y	39:50	1.08	48.6		2.50	-	-	*	-
13C-PCB-105	6.87e+07	1.60 y	39:49	1.24	98.5		2.50				98.5
PCB-126	3.31e+07	1.58 y	41:59	1.07	49.0		2.50	-	-	*	-
13C-PCB-126	6.32e+07	1.57 y	41:59	1.17	95.7		2.50				95.7
PCB-167	3.42e+07	1.23 y	43:19	0.98	50.6		2.50	-	-	*	-
13C-PCB-167	6.90e+07	1.25 y	43:18	1.24	98.8		2.50				98.8
PCB-156	3.30e+07	1.22 y	44:33	1.01	49.5		2.50	-	-	*	-
13C-PCB-156	6.60e+07	1.27 y	44:32	1.18	99.4		2.50				99.4
PCB-157	3.30e+07	1.25 y	44:48	0.96	51.1		2.50	-	-	*	-
13C-PCB-157	6.71e+07	1.25 y	44:46	1.22	97.4		2.50				97.4
PCB-169	3.04e+07	1.28 y	46:42	1.00	49.3		2.50	-	-	*	-
13C-PCB-169	6.18e+07	1.24 y	46:42	1.11	99.2		2.50				99.2
PCB-188	3.71e+07	1.05 y	39:35	1.09	48.7		2.50	-	-	*	-
13C-PCB-188	6.98e+07	1.06 y	39:34	1.22	101		2.50				101
PCB-189	3.02e+07	1.06 y	48:22	1.14	49.3		2.50	-	-	*	-
13C-PCB-189	5.37e+07	1.04 y	48:20	0.97	98.4		2.50				98.4
PCB-202	2.56e+07	0.88 y	44:43	1.05	49.3		2.50	-	-	*	-
13C-PCB-202	4.92e+07	0.91 y	44:42	0.88	99.8		2.50				99.8
13C-PCB-178	4.39e+07	1.05 y	42:13	0.77	101		2.50				101
13C-PCB-138	5.63e+07	1.25 y	41:26	-	80.7		2.50				

FAL ID: ST081116Z3 Filename: 11AUG16Z Sam:1 Acquired: 11-AUG-16 11:26:03 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R150603A CS0301 ConCal: NA EndCal: NA
Results: GC Column: DB1 Amount: 1.000

PCB-205	2.70e+07	0.88	y	50:01	1.02	49.7	2.50	-	-	*	-
13C-PCB-205	5.33e+07	0.90	y	49:59	1.38	95.9	2.50				95.9
PCB-208	2.39e+07	1.45	y	49:04	0.93	48.5	2.50	-	-	*	-
13C-PCB-208	5.30e+07	0.79	y	49:03	1.31	100	2.50				100
PCB-206	1.94e+07	1.40	y	51:11	0.94	49.8	2.50	-	-	*	-
13C-PCB-206	4.16e+07	0.79	y	51:10	1.01	102	2.50				102
PCB-209	2.98e+07	1.18	y	52:22	1.10	51.5	2.50	-	-	*	-
13C-PCB-209	5.25e+07	1.20	y	52:21	1.34	97.3	2.50				97.3
13C-PCB-194	4.03e+07	0.90	y	49:44	-	80.0	2.50				

Analyst: [illegible] Date: 8/12/16

Frontier Analytical Laboratory - Acquisition Log

Run Name:11AUG16Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

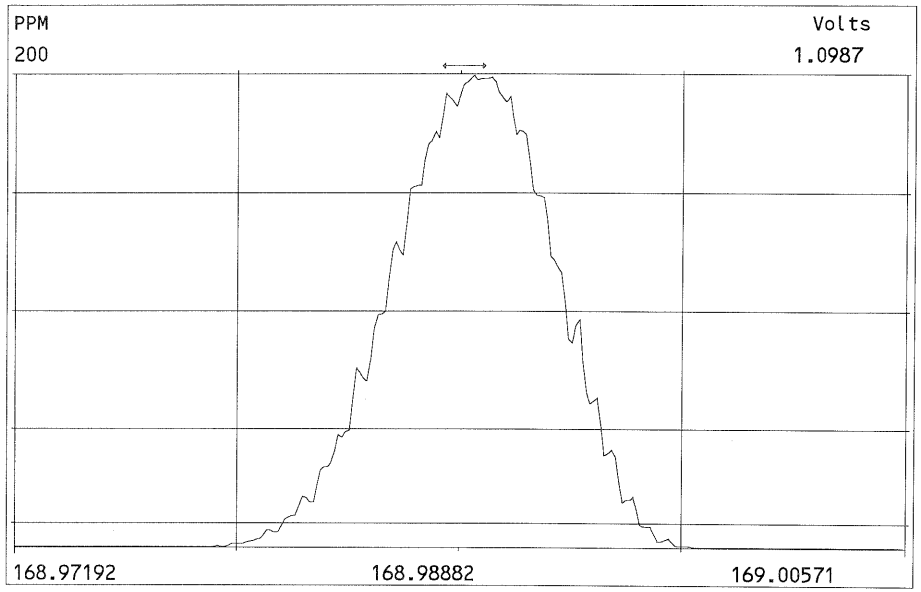
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
11AUG16Z	1	ST081116Z3	1668 CS3 R150603A CS0301	11-AUG-16 11:26:03	NA	NA	BS
11AUG16Z	2	ST081116Z0	1668 CS0 R151116A CS0001	11-AUG-16 12:25:59	NA	NA	BS
11AUG16Z	3	ST081116Z1	1668 CS1 R121023B CS0101	11-AUG-16 13:25:54	NA	NA	BS
11AUG16Z	4	ST081116Z2	1668 CS2 R130426B CS0201	11-AUG-16 14:25:51	NA	NA	BS
11AUG16Z	5	ST081116Z4	1668 CS4 R151116B CS0401	11-AUG-16 15:25:47	NA	NA	BS
11AUG16Z	6	ST081116Z5	1668 CS5 R130426C CS0501	11-AUG-16 16:25:44	NA	NA	BS
11AUG16Z	7	SB081116Z1	Solvent Blank	11-AUG-16 17:25:40	NA	NA	BS
11AUG16Z	8	QC081116Z1	QCS	11-AUG-16 18:25:35	NA	NA	BS
11AUG16Z	9	ST081116Z6	1668 CS3 R150603A CS0351	11-AUG-16 19:25:30	ST081116Z6	ST081116Z7	BS
11AUG16Z	10	SS081116Z1	DAILY 209 151201A CS20951	11-AUG-16 20:25:24	ST081116Z6	ST081116Z7	BS
11AUG16Z	11	03802-001-0001-LC1	CLCS02	11-AUG-16 21:25:17	ST081116Z6	ST081116Z7	BS
11AUG16Z	12	03802-001-0001-LC2	CLCSD02	11-AUG-16 22:25:09	ST081116Z6	ST081116Z7	BS
11AUG16Z	13	03807-001-0001-LC1	CLCS07	11-AUG-16 23:25:02	ST081116Z6	ST081116Z7	BS
11AUG16Z	14	03807-001-0001-LC2	CLCSD07	12-AUG-16 00:24:55	ST081116Z6	ST081116Z7	BS
11AUG16Z	15	03802-001-0001-MB	CBLK02	12-AUG-16 01:24:48	ST081116Z6	ST081116Z7	BS
11AUG16Z	16	03807-001-0001-MB	CBLK07	12-AUG-16 02:24:42	ST081116Z6	ST081116Z7	BS
11AUG16Z	17	10066-001-0001-SA	PX2603	12-AUG-16 03:24:35	ST081116Z6	ST081116Z7	BS
11AUG16Z	18	10066-003-0001-SA	PX2605	12-AUG-16 04:24:28	ST081116Z6	ST081116Z7	BS
11AUG16Z	19	SB081116Z2	Solvent Blank	12-AUG-16 05:24:20	ST081116Z6	ST081116Z7	BS
11AUG16Z	20	ST081116Z7	1668 CS3 150603A CS0352	12-AUG-16 06:24:12	ST081116Z6	ST081116Z7	BS

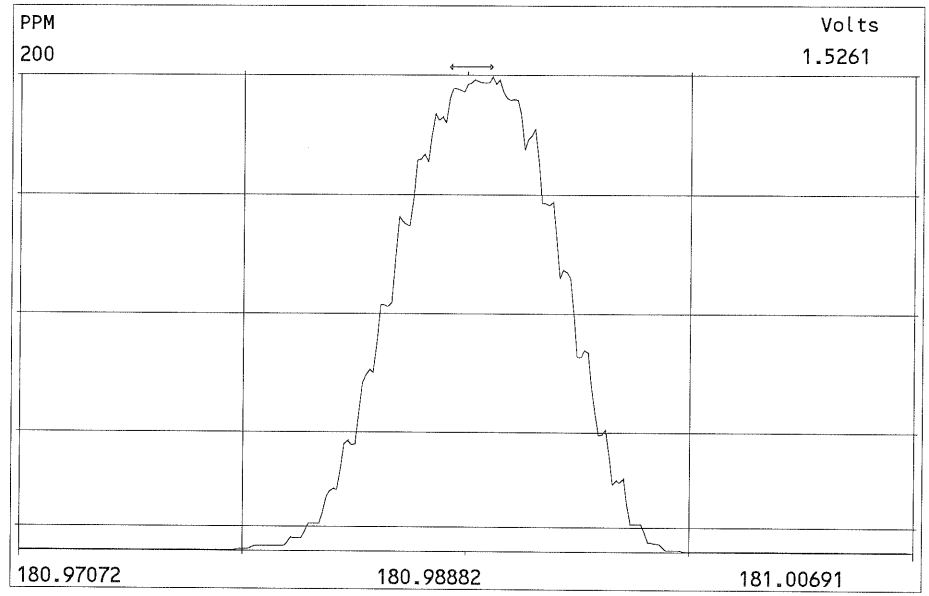
8/12/16

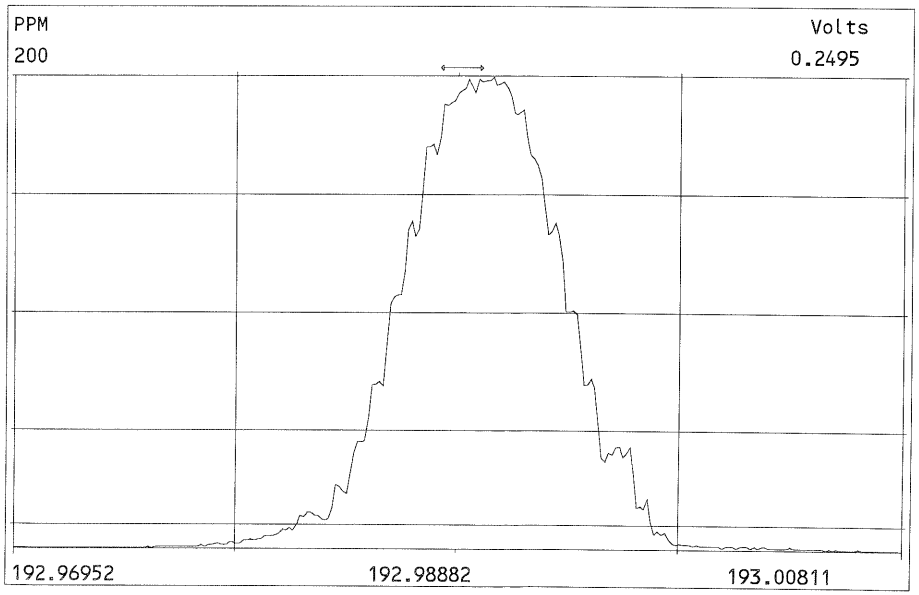
Data Backed Up:_____

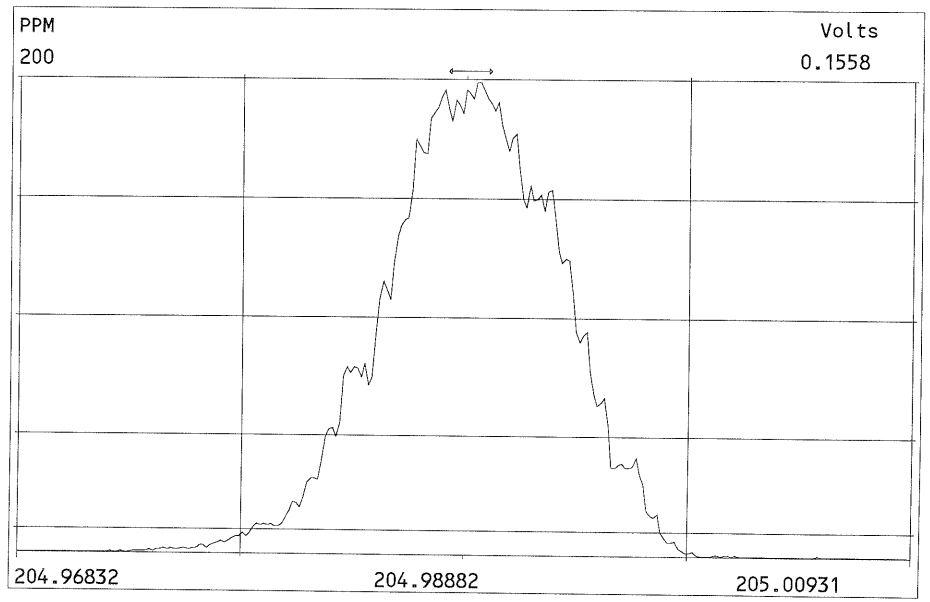
Date:_____

Peak Locate Examination:11-AUG-2016:11:21 File:11AUG16Z PFK-01
Experiment:1668PCB Function:1 Reference:PFK



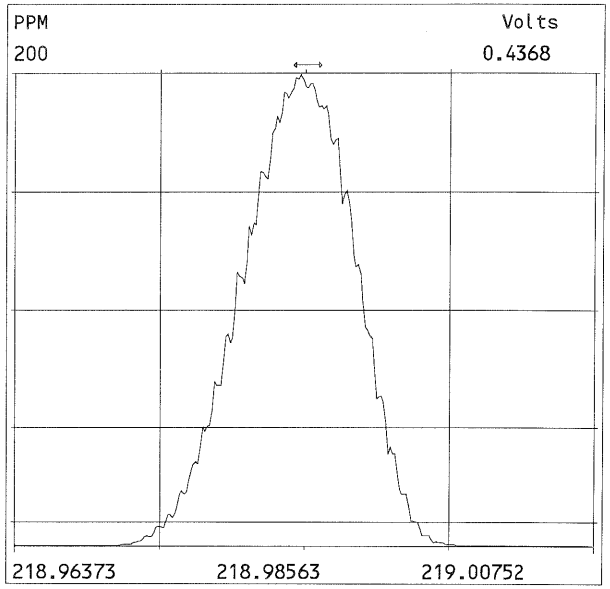


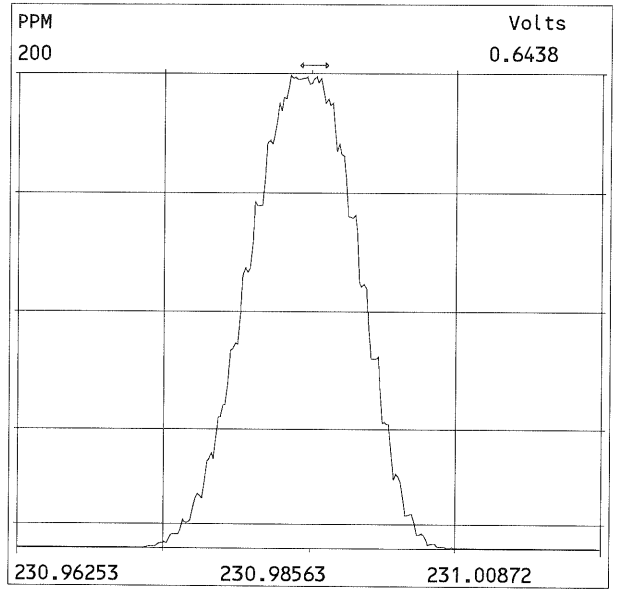


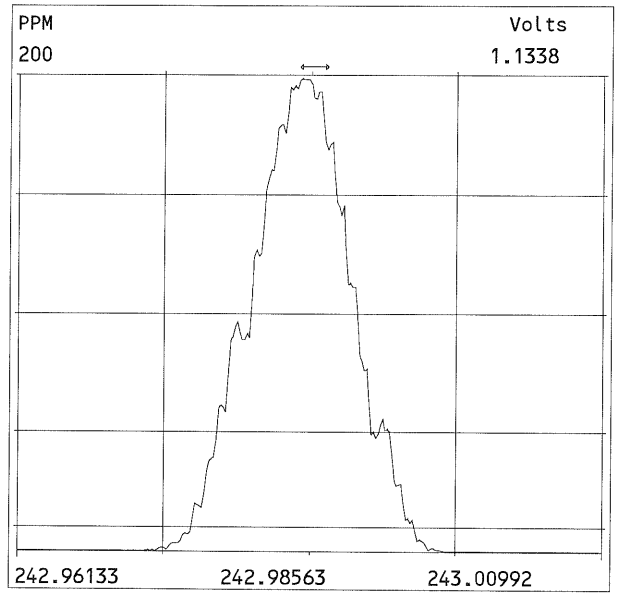


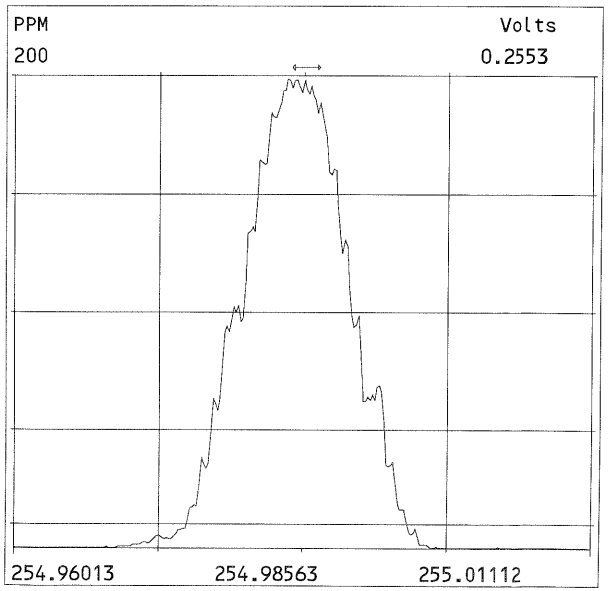
Peak Locate Examination:11-AUG-2016:11:22 File:11AUG16Z PFK01

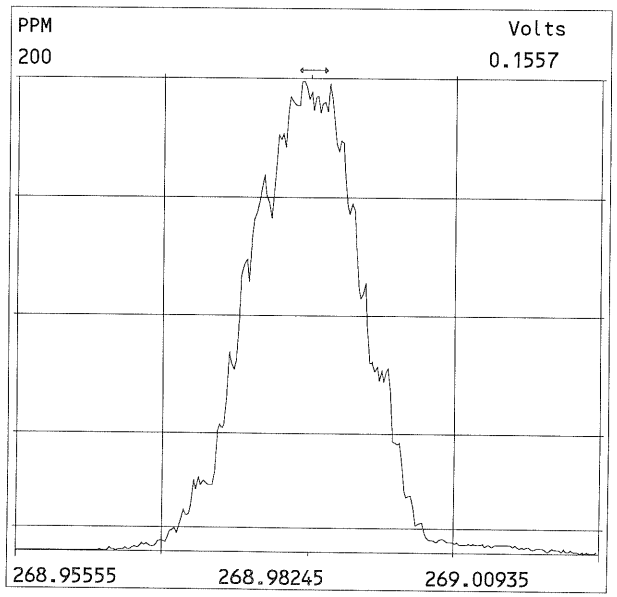
Experiment:1668PCB Function:2 Reference:PFK

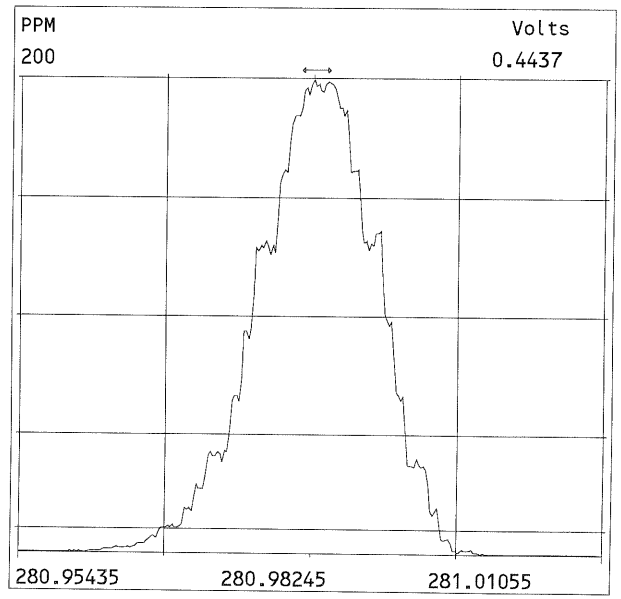






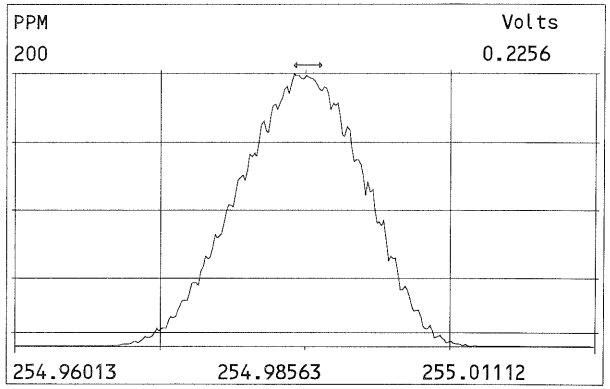


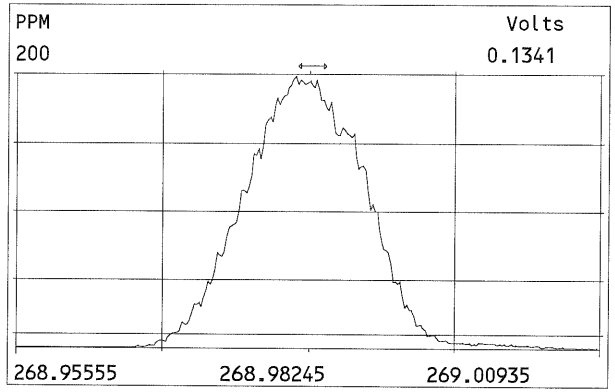


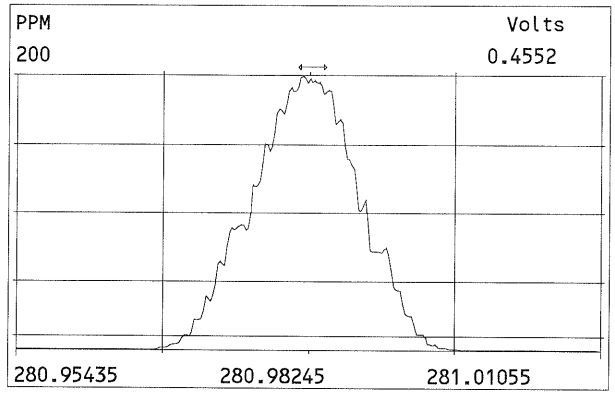


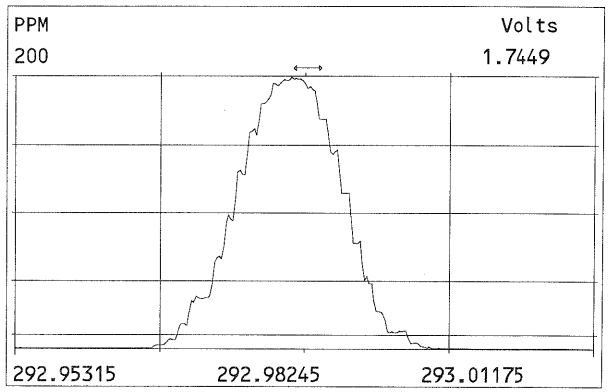
Peak Locate Examination:11-AUG-2016:11:22 File:11AUG16Z PFK01

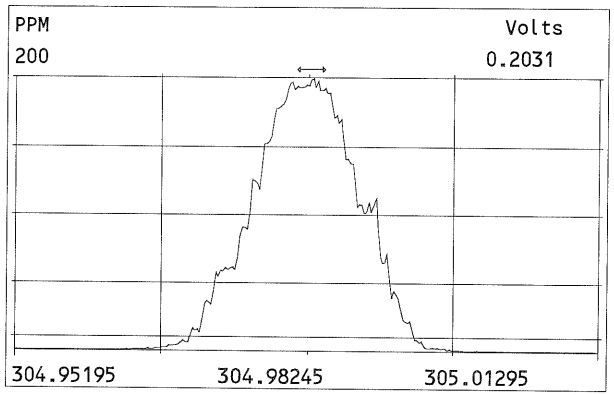
Experiment:1668PCB Function:3 Reference:PFK

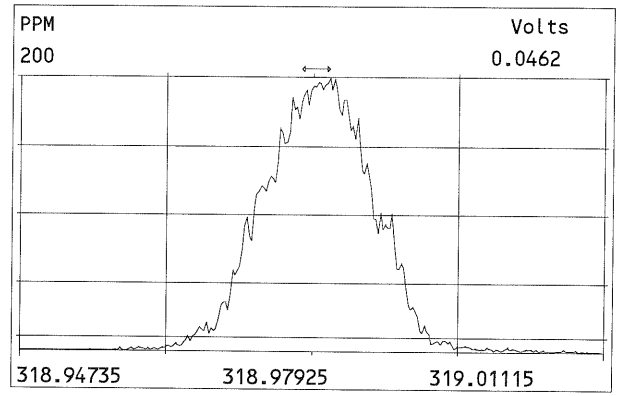


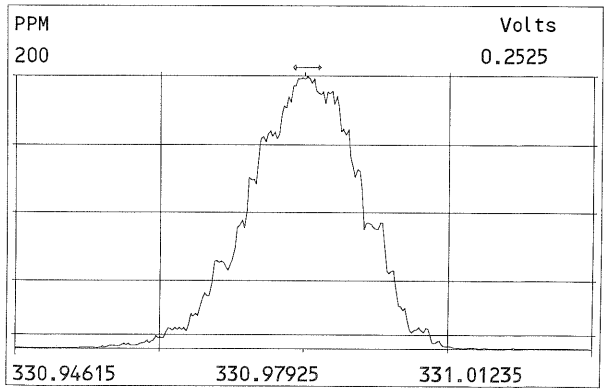


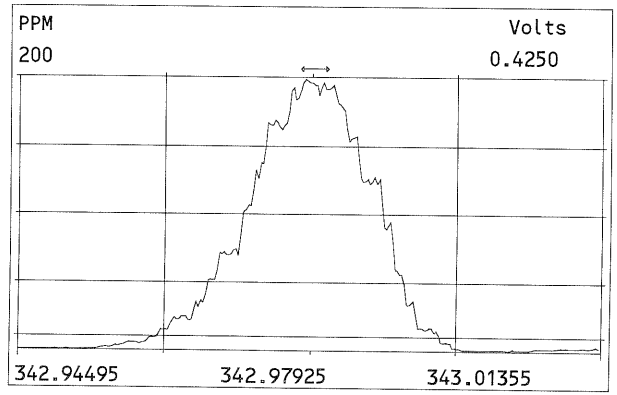






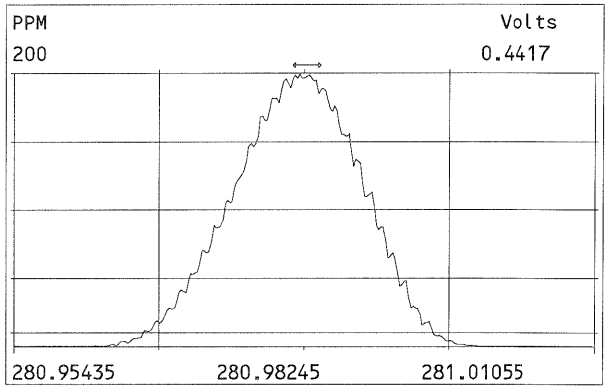


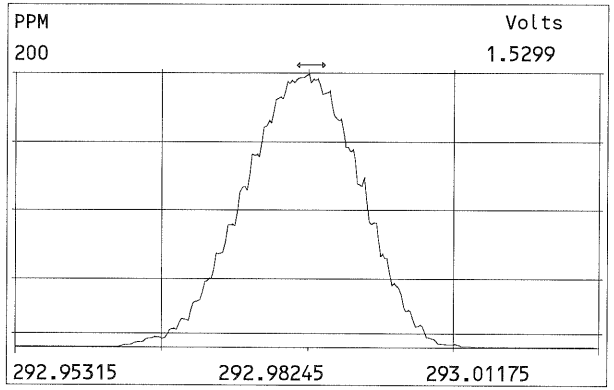


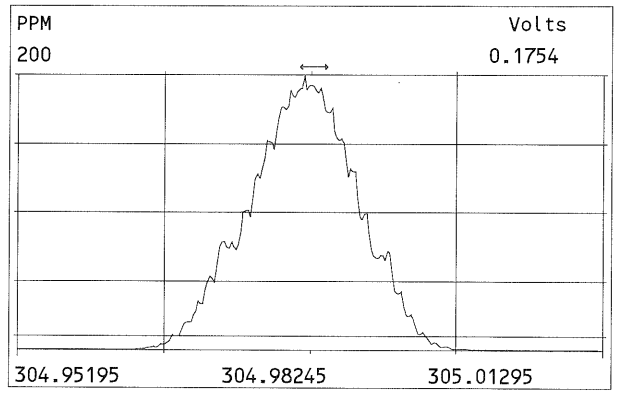


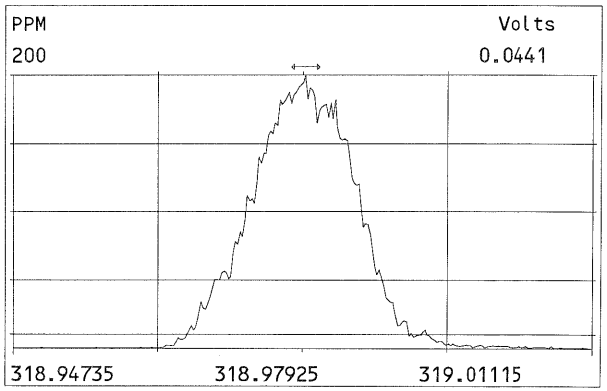
Peak Locate Examination:11-AUG-2016:11:23 File:11AUG16Z PFK01

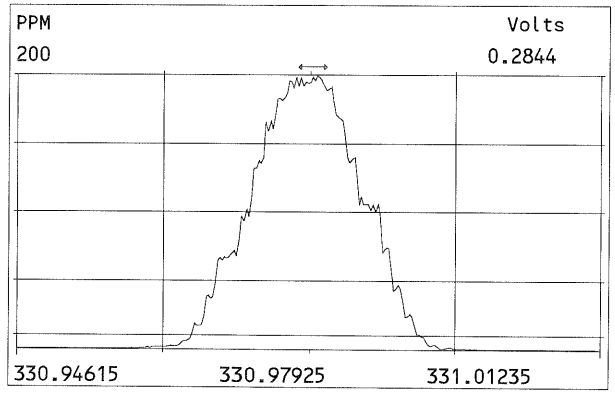
Experiment:1668PCB Function:4 Reference:PFK

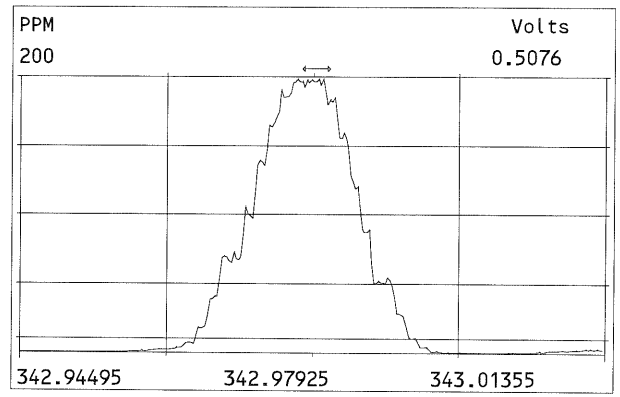


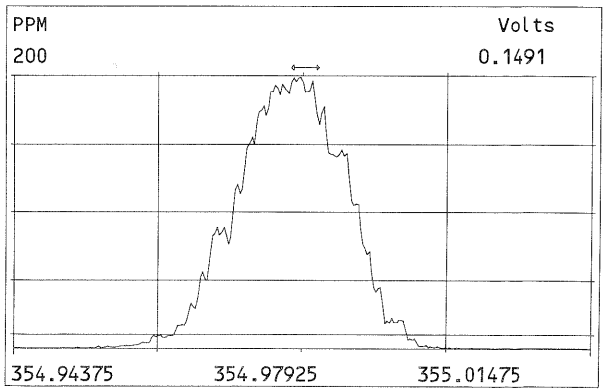


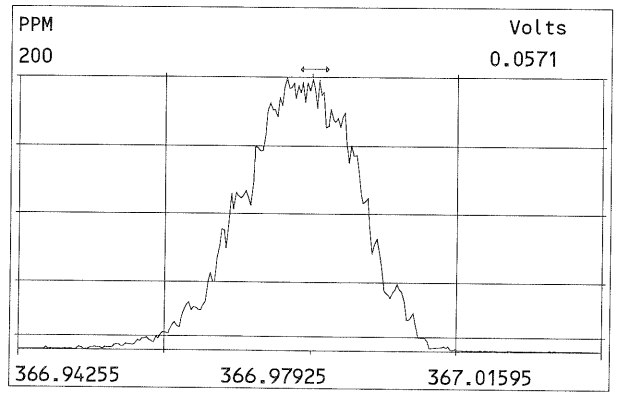


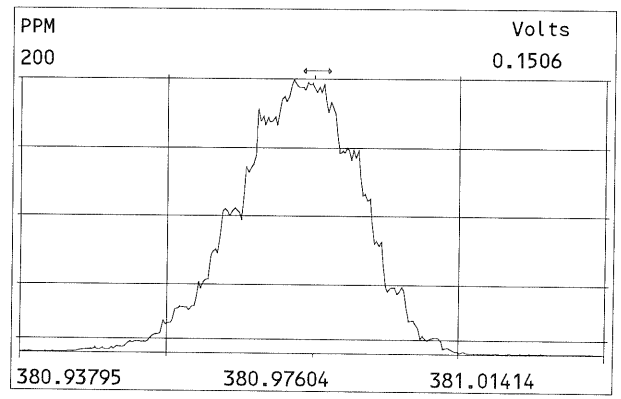




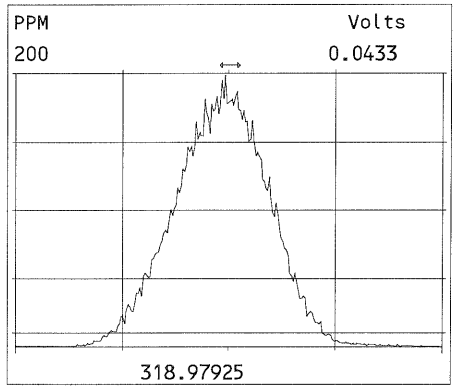


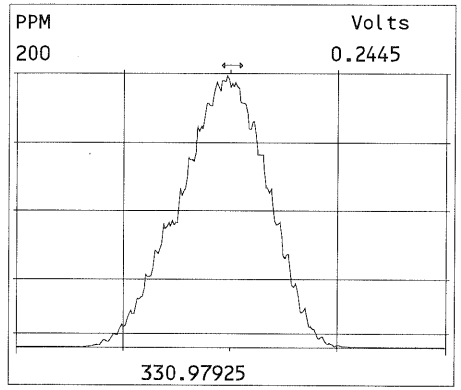


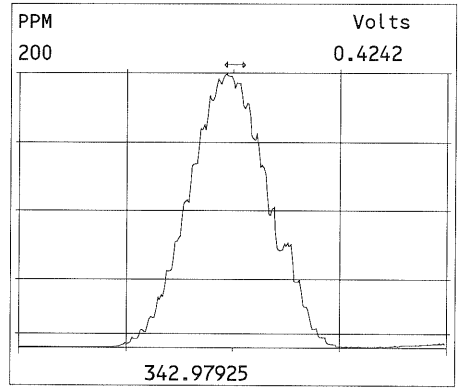


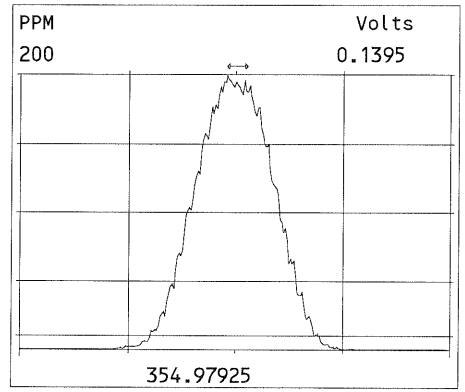


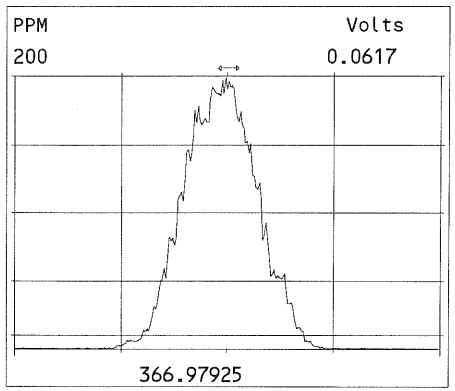
Peak Locate Examination:11-AUG-2016:11:24 File:11AUG16Z PFK01
Experiment:1668PCB Function:5 Reference:PFK

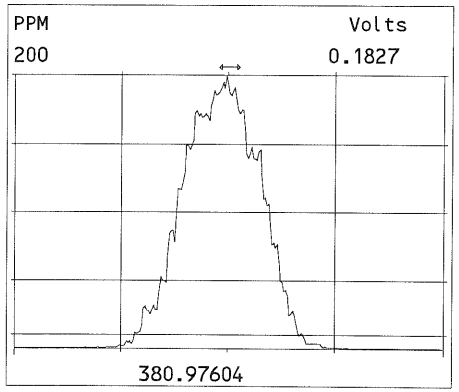


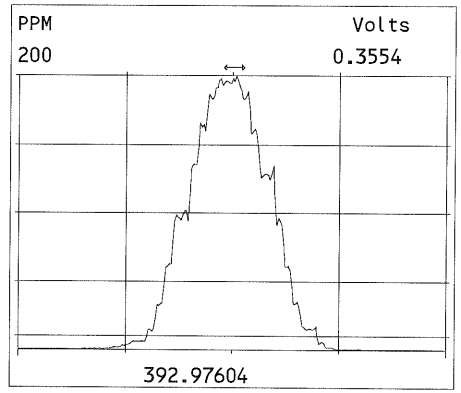


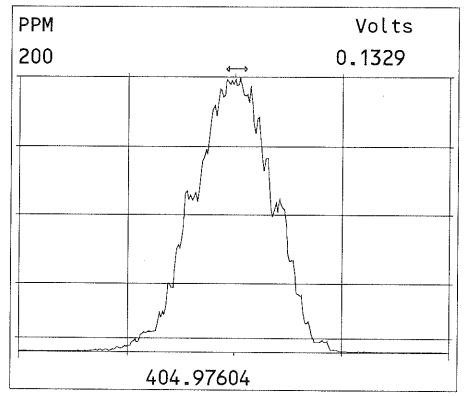


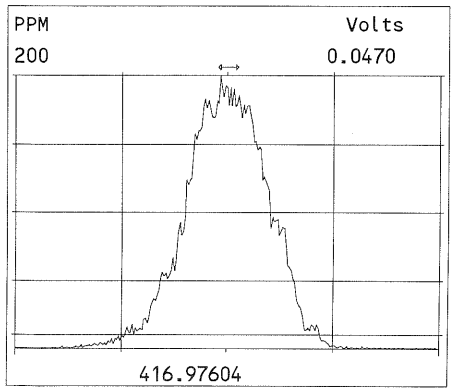


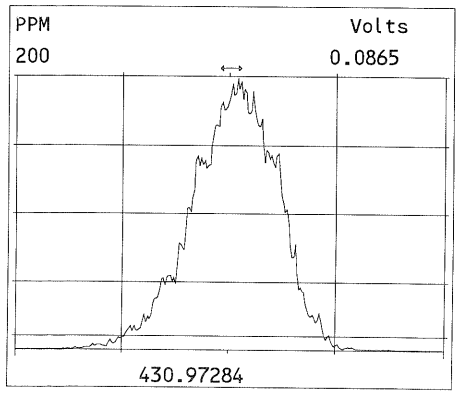


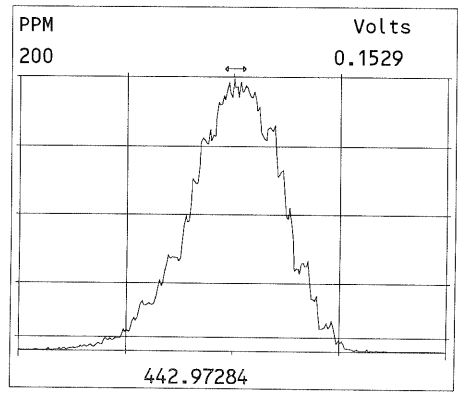






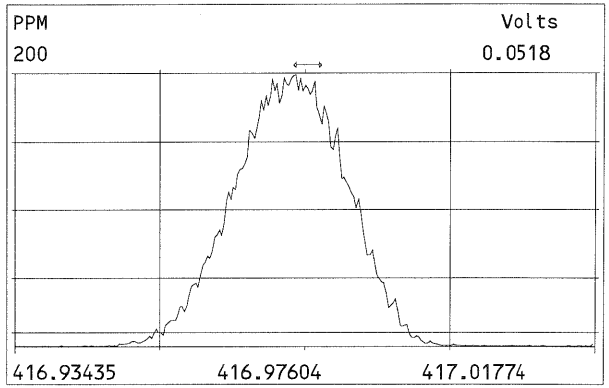


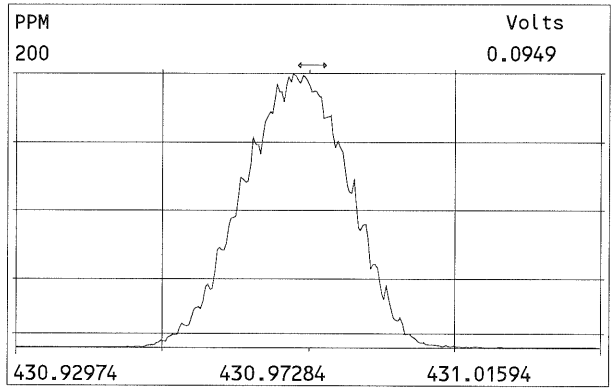


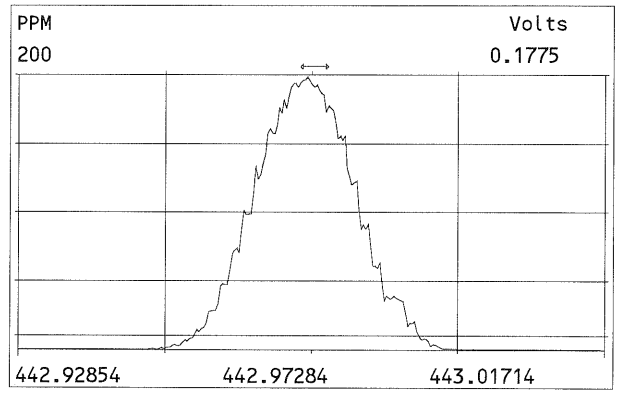


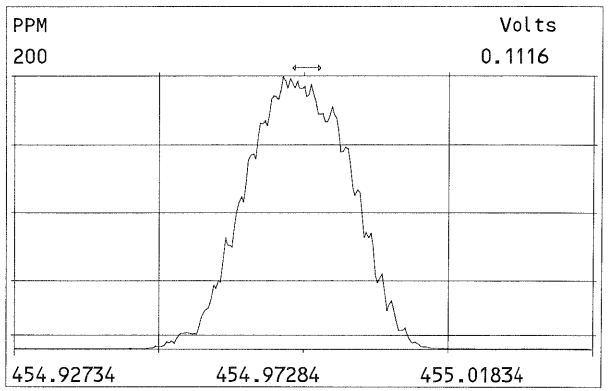
Peak Locate Examination:11-AUG-2016:11:25 File:11AUG16Z PFK01

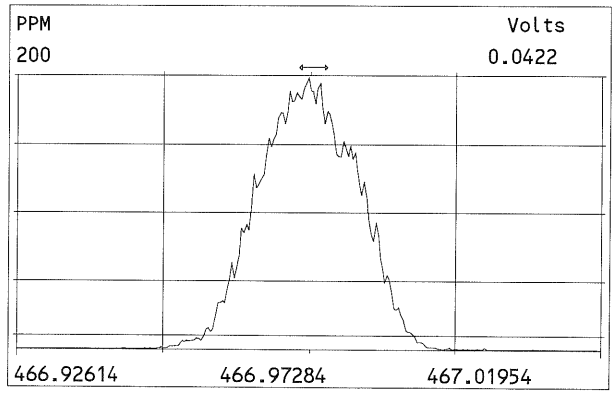
Experiment:1668PCB Function:6 Reference:PFK

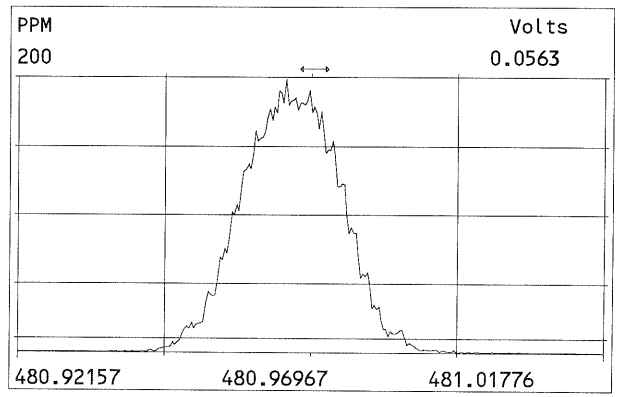


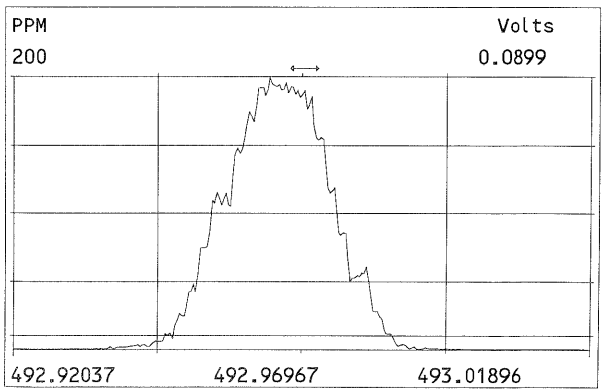


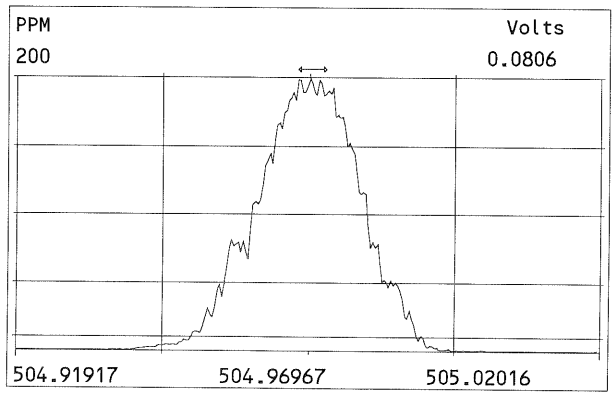


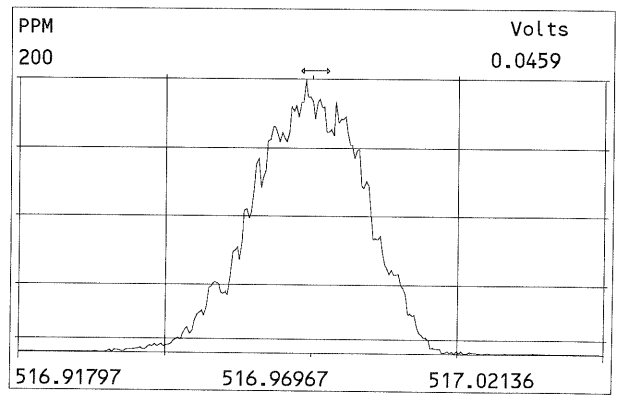




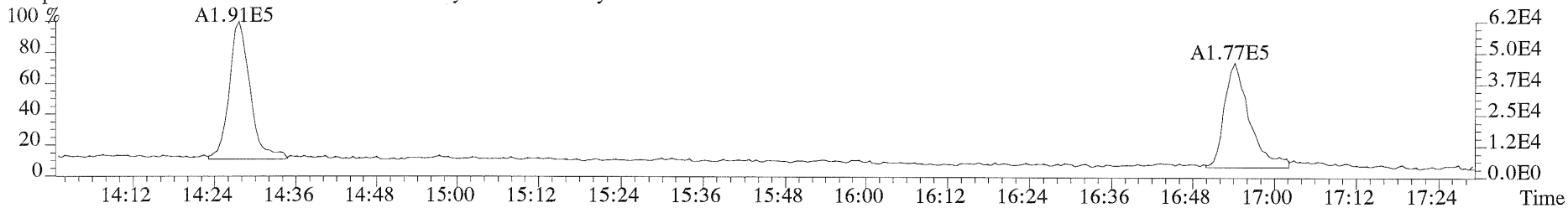




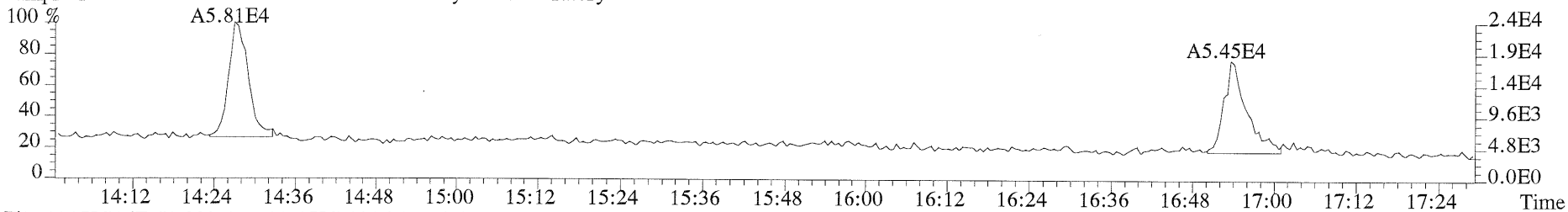




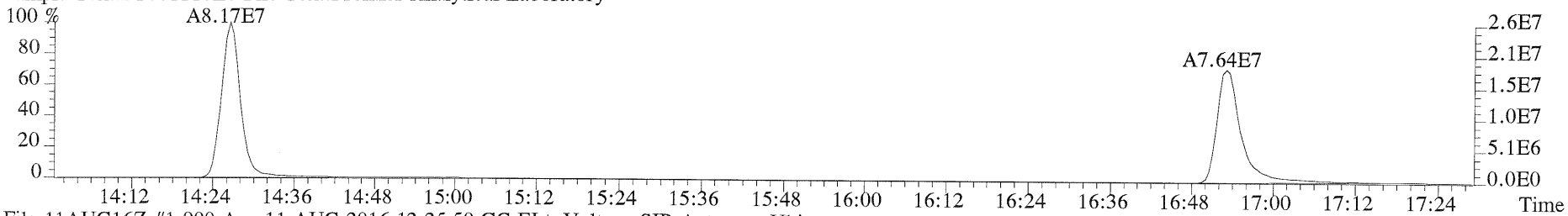
File:11AUG16Z #1-900 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-900 Acq:11-AUG-2016 12:25:59 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:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-900 Acq:11-AUG-2016 12:25:59 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:ST081116Z0 File Text:Frontier Analytical Laboratory



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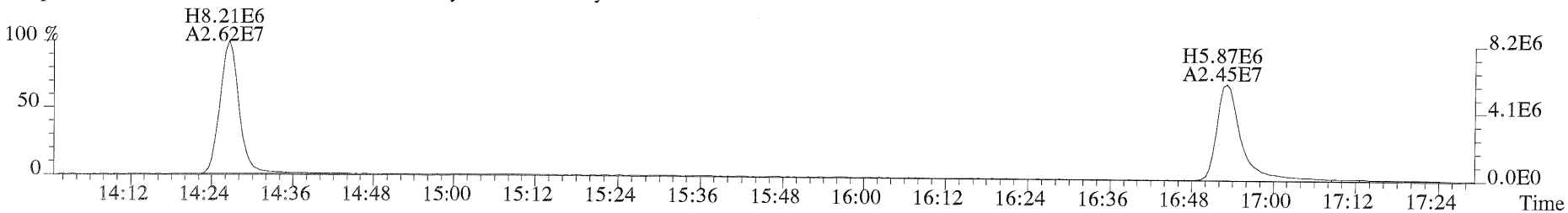
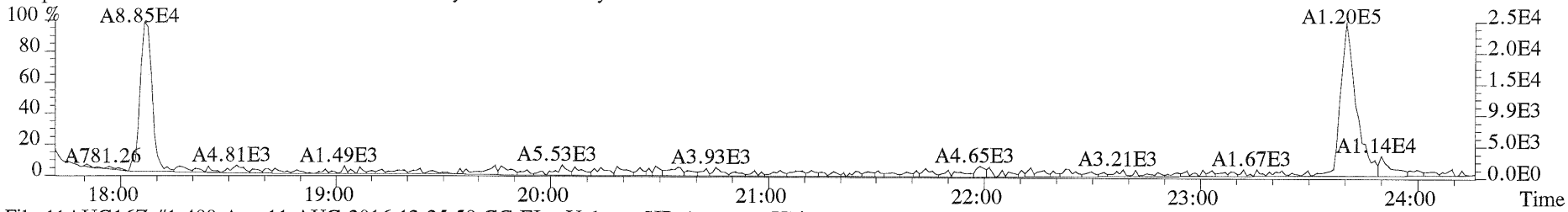
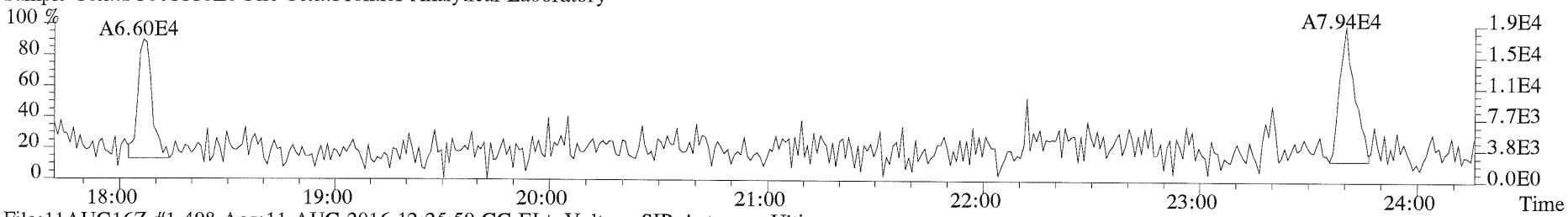
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



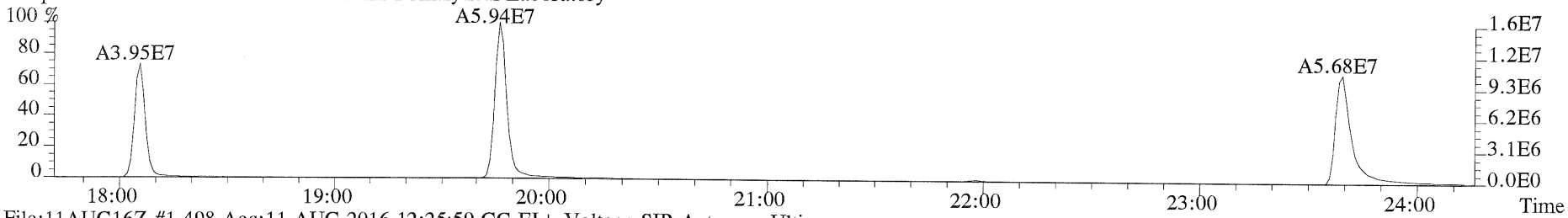
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



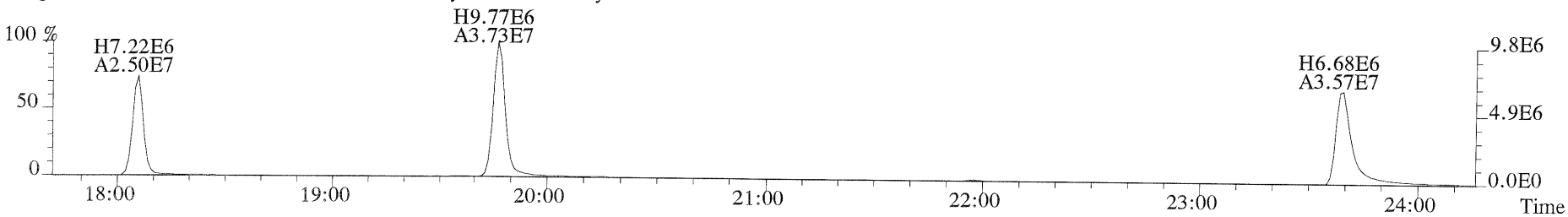
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



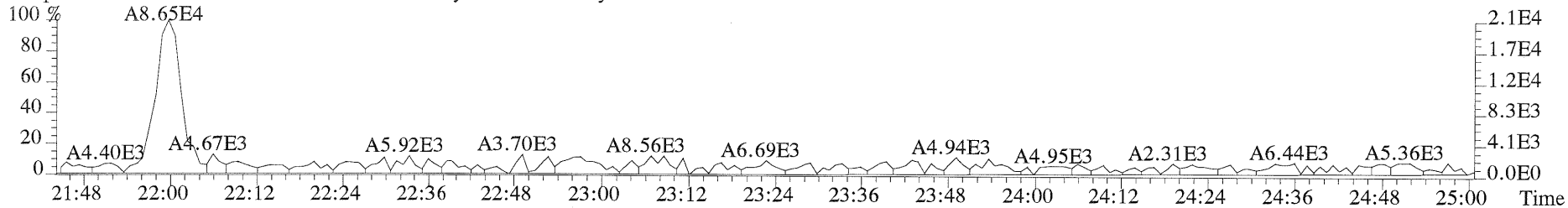
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



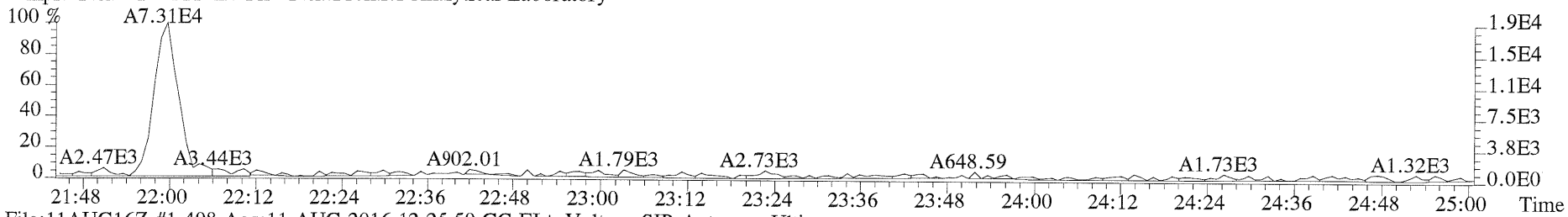
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



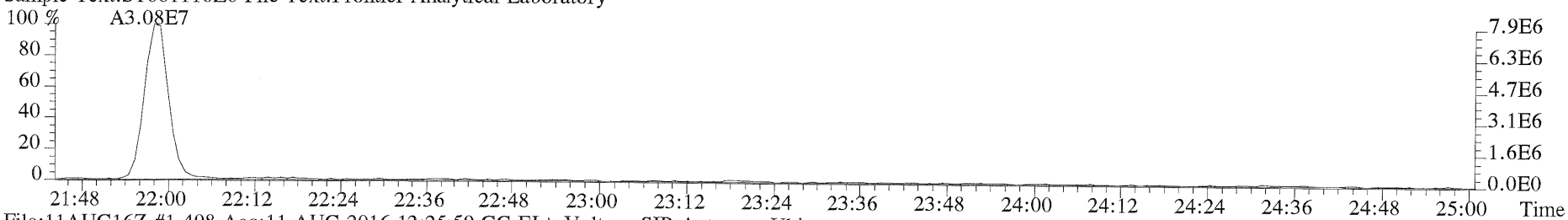
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



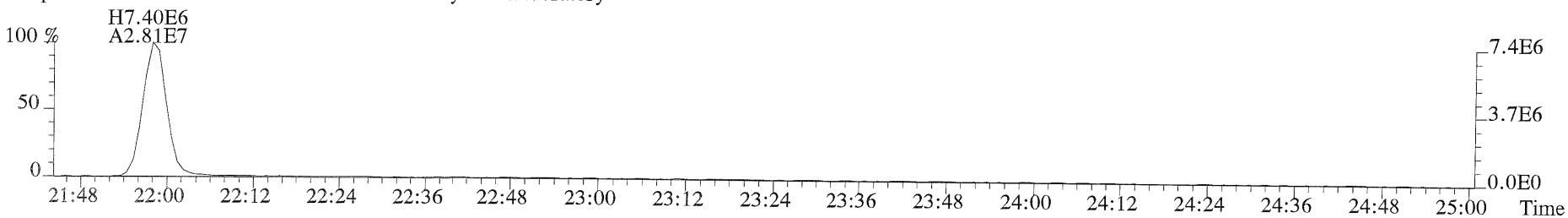
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



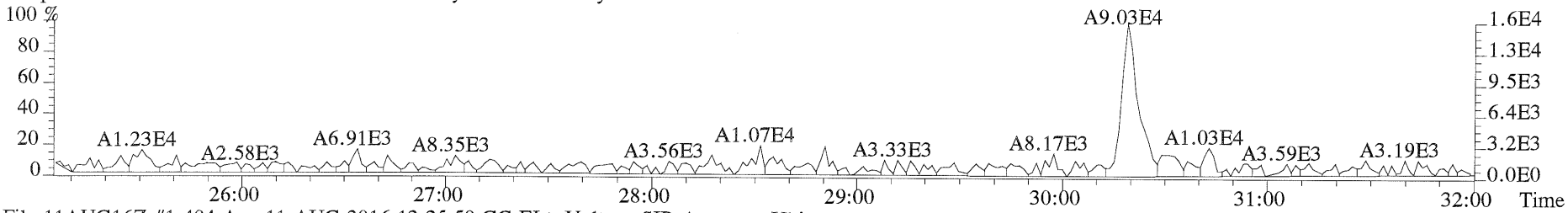
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



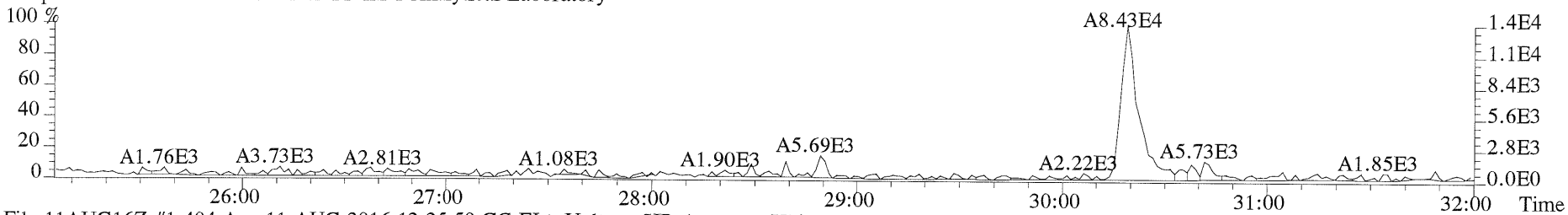
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



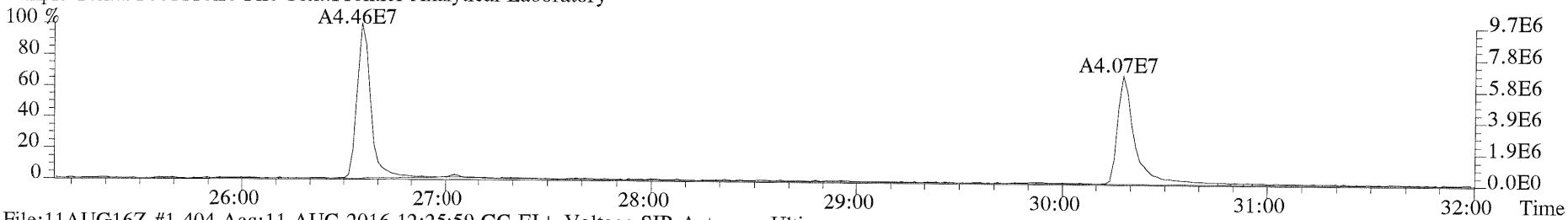
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



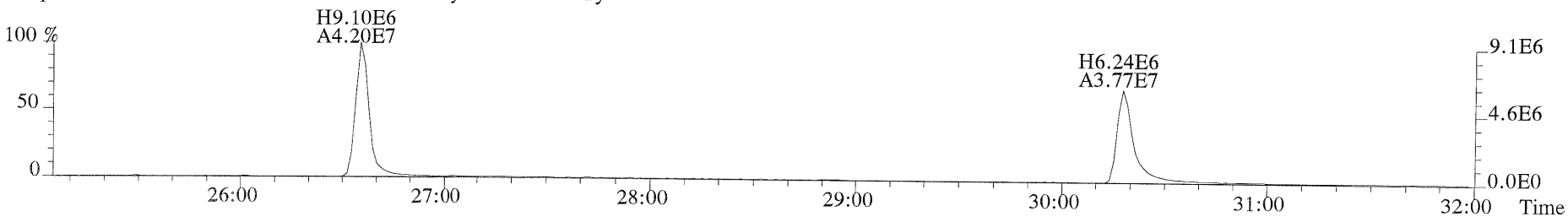
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



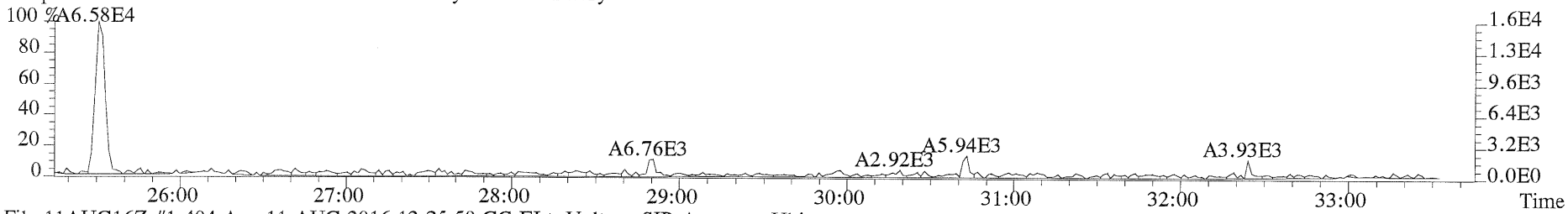
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



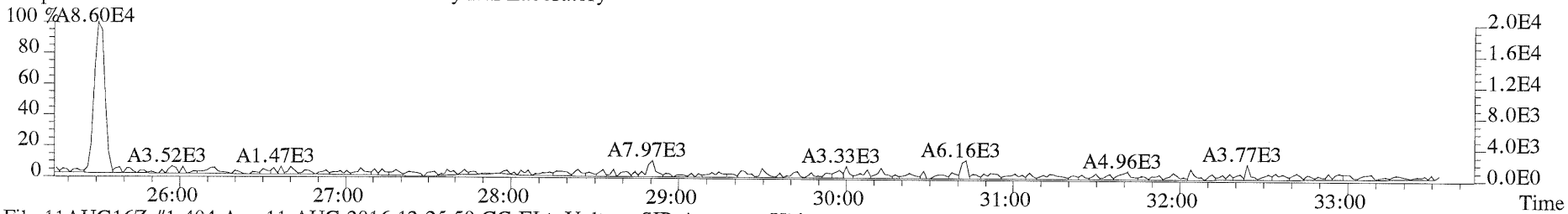
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



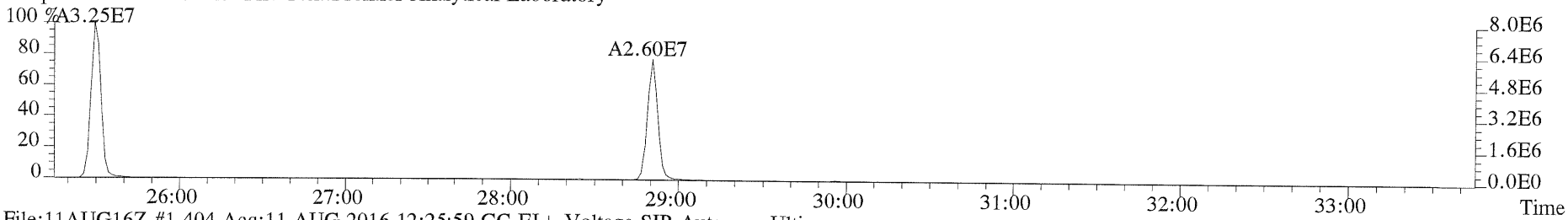
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



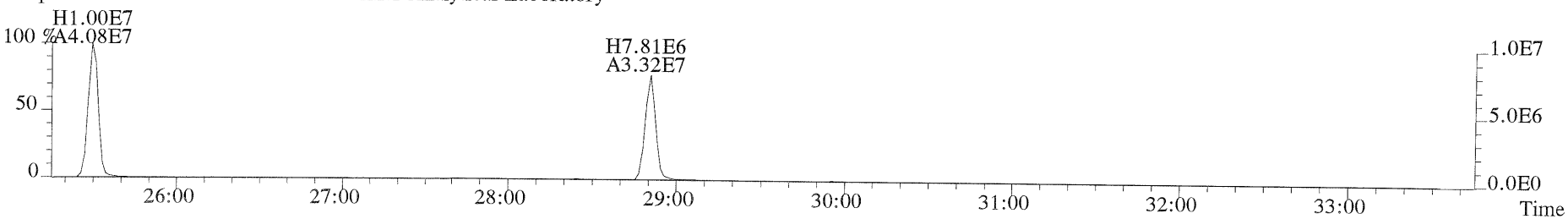
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



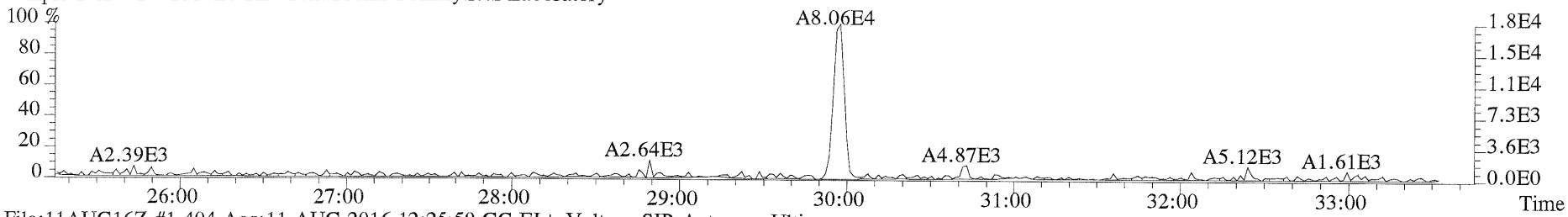
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



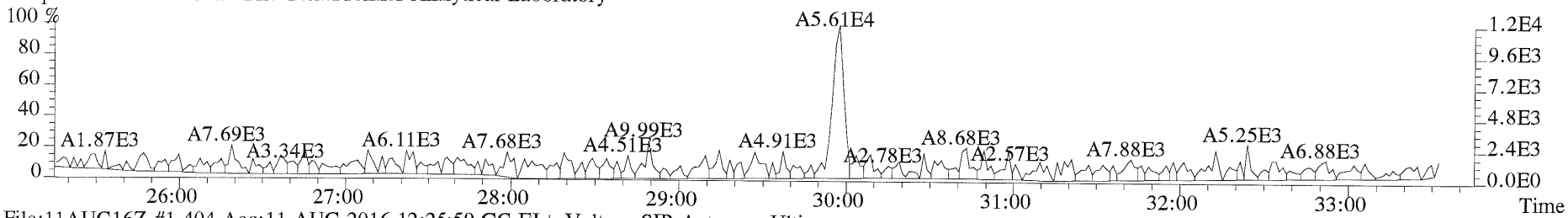
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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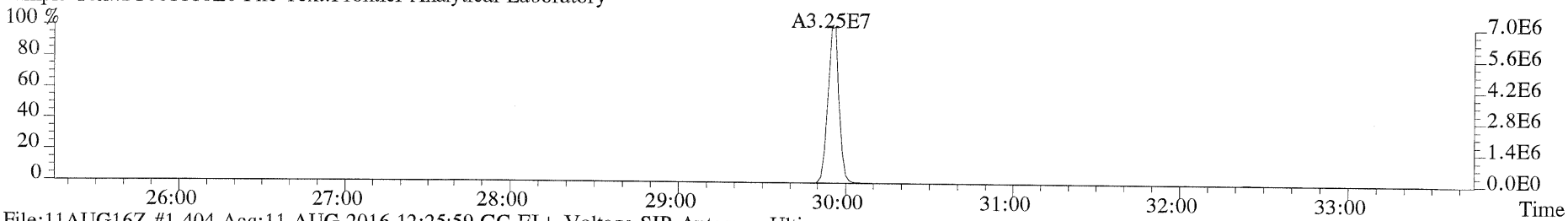
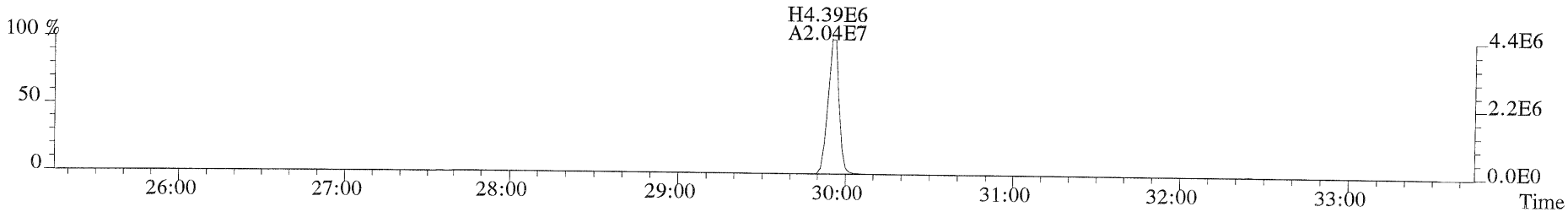
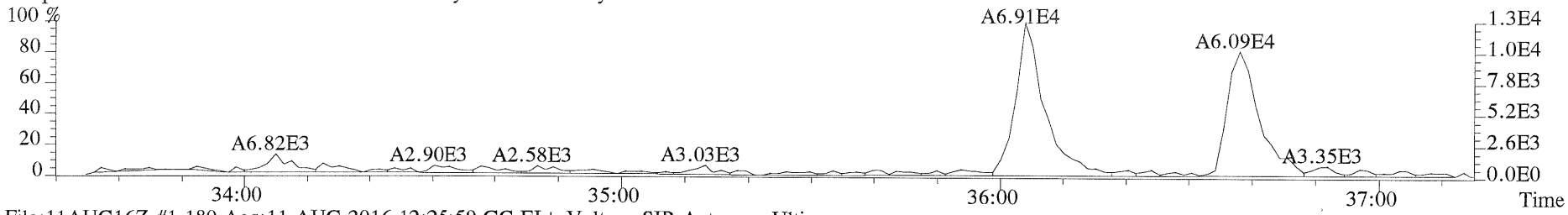
337.9207 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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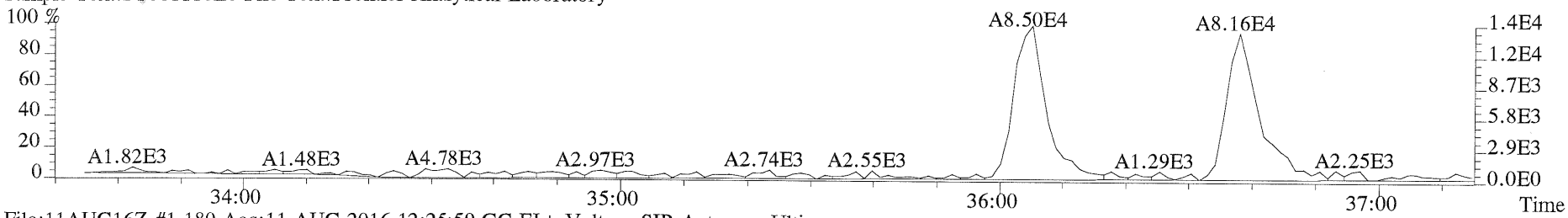
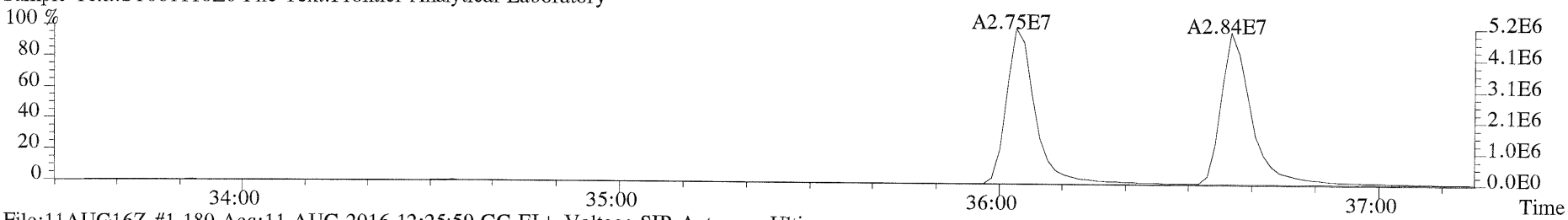
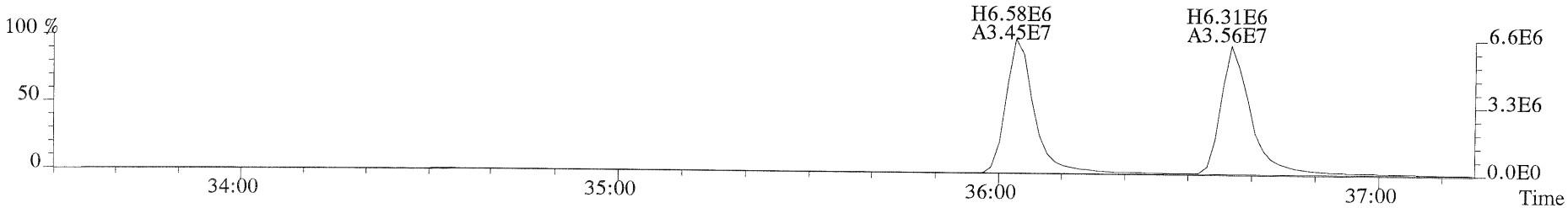
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



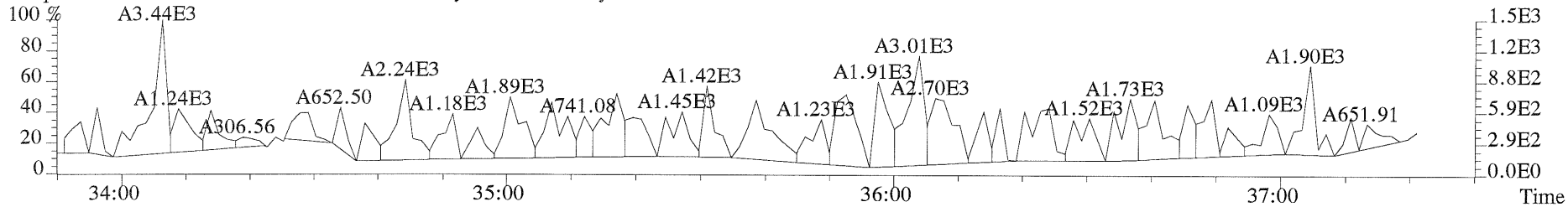
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



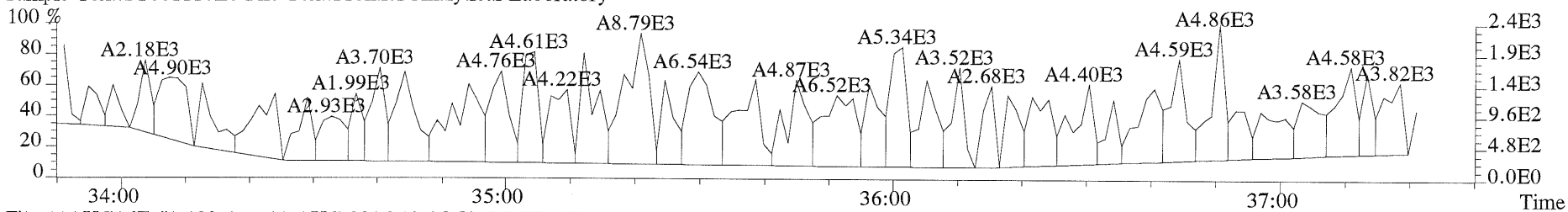
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



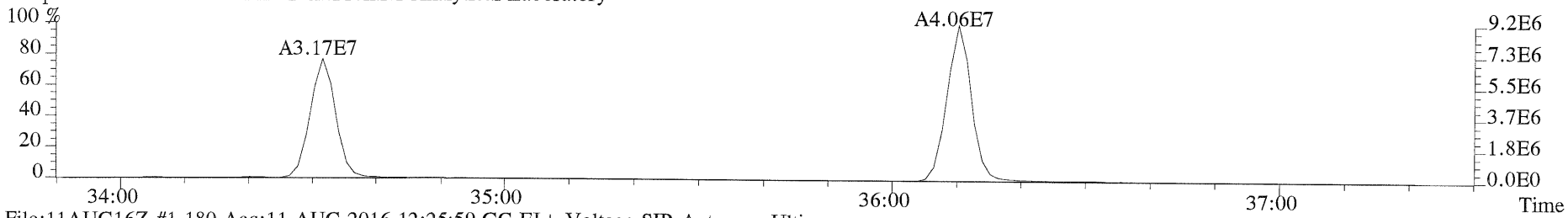
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



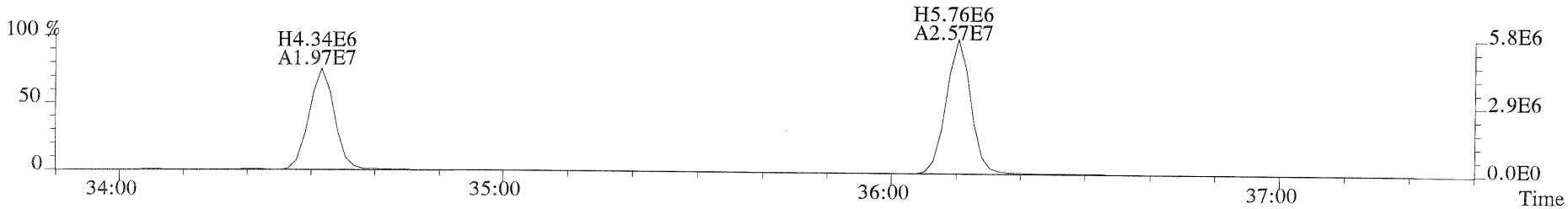
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



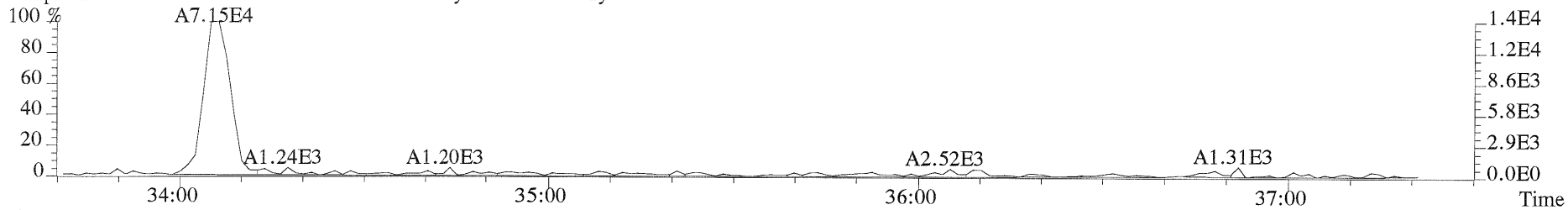
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



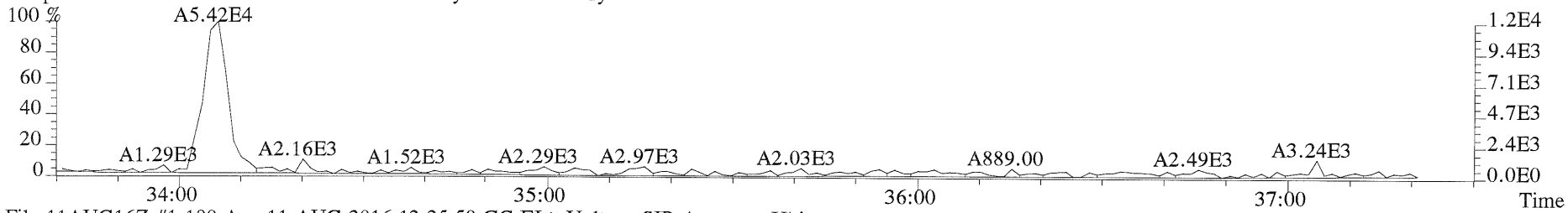
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



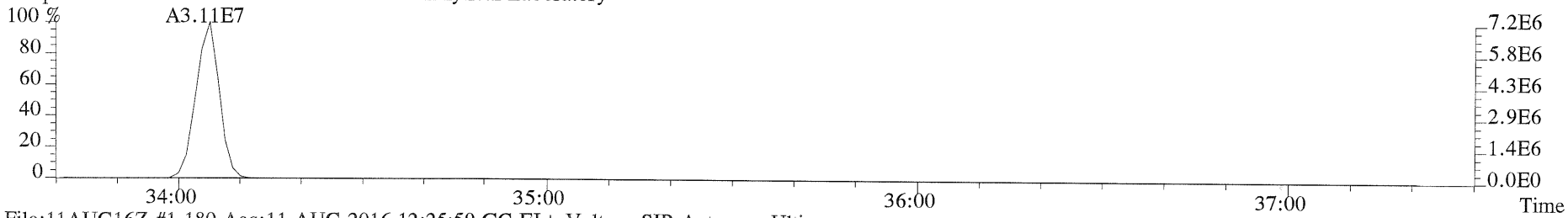
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



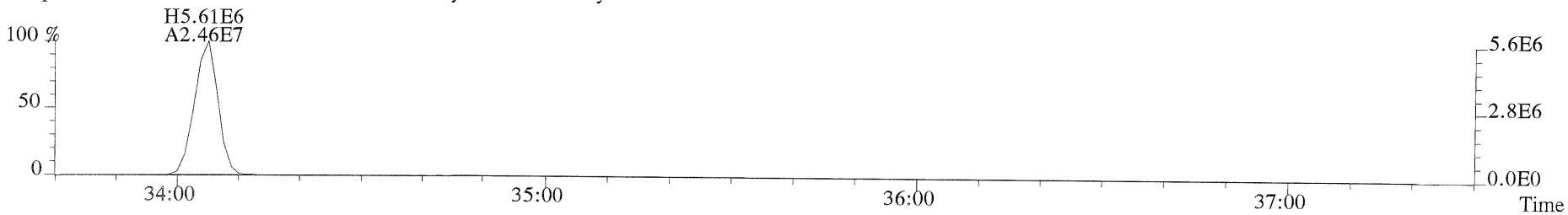
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



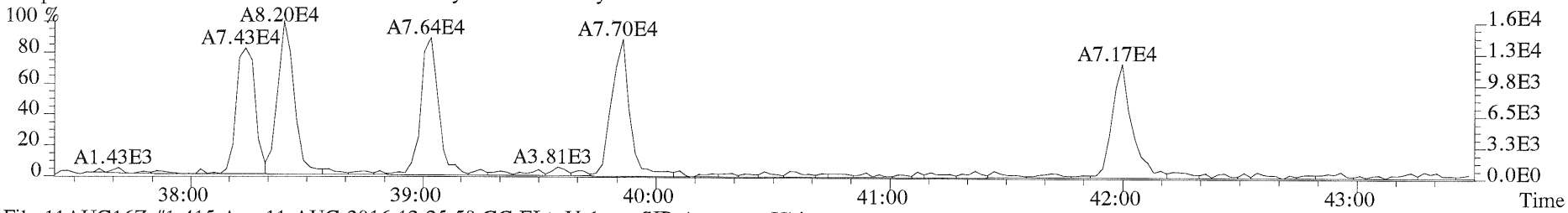
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



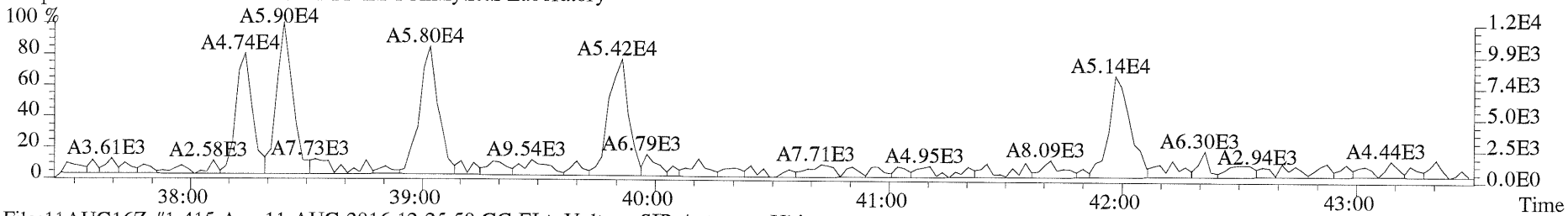
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 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:ST081116Z0 File Text:Frontier Analytical Laboratory



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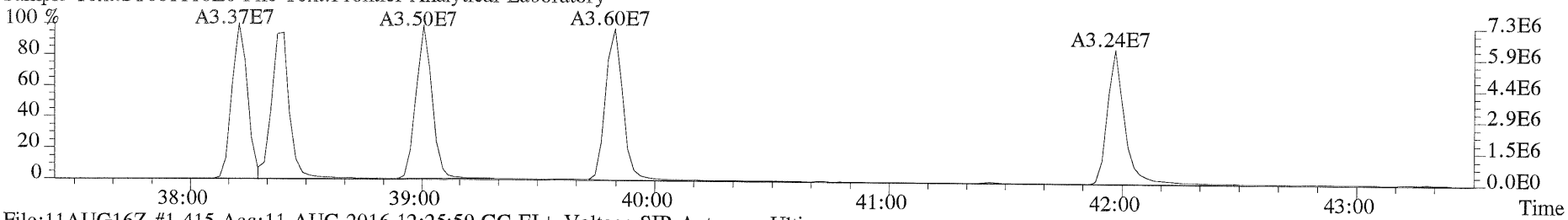
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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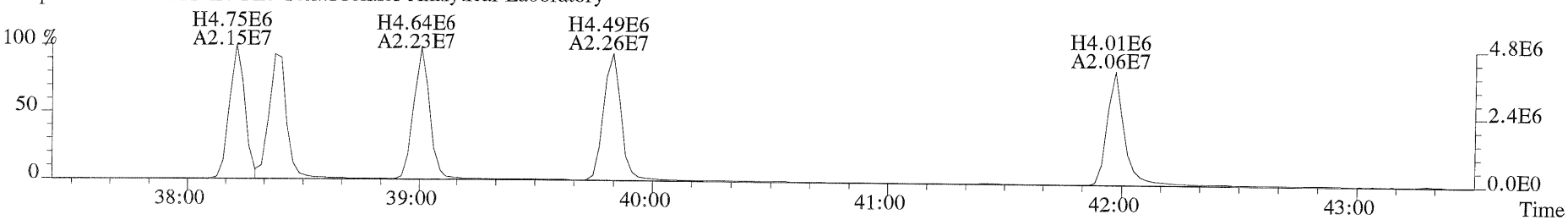
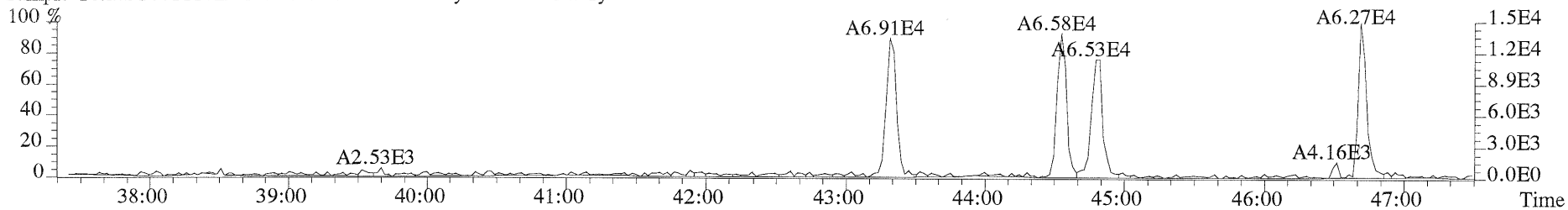
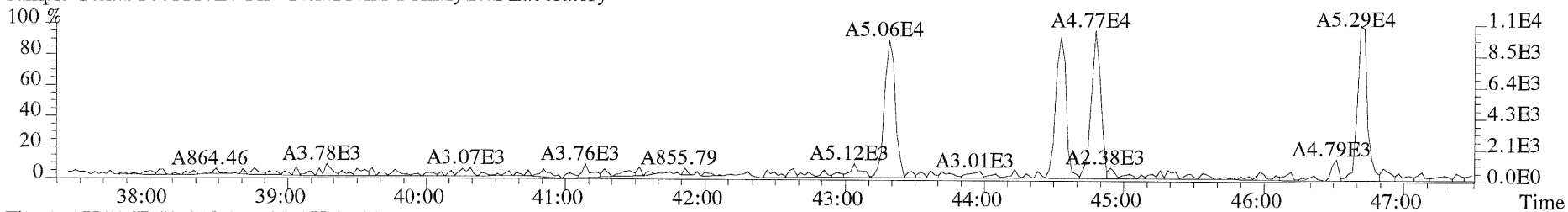
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



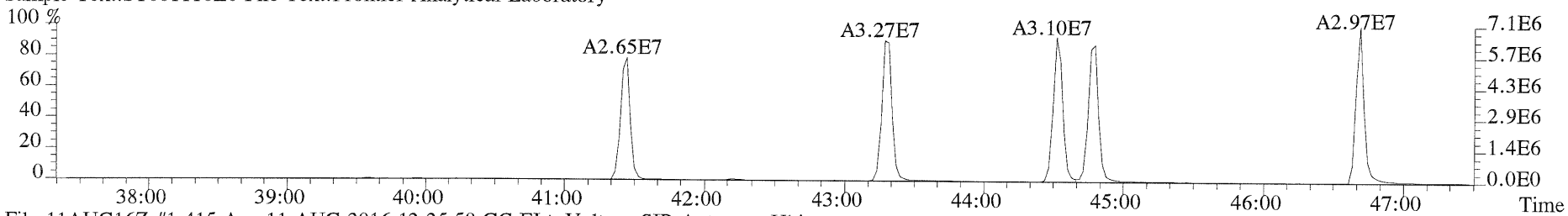
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
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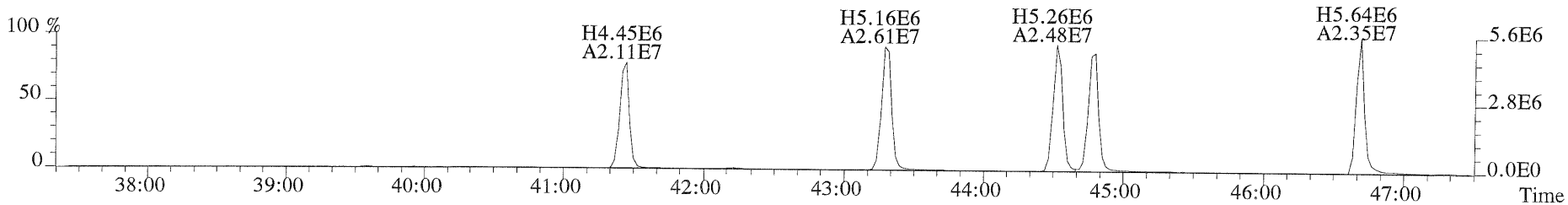
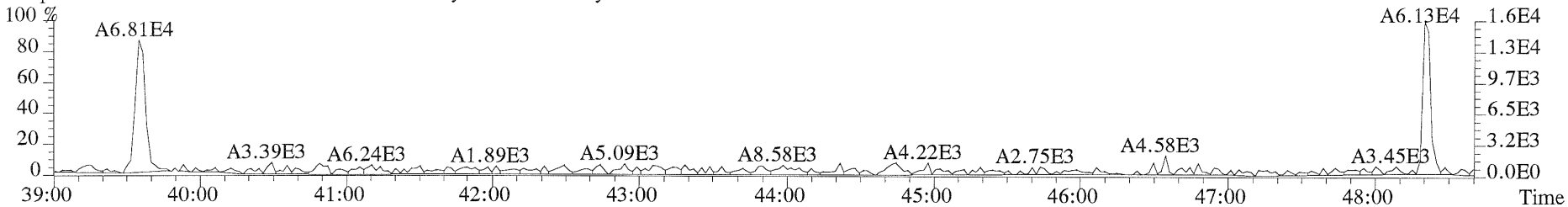
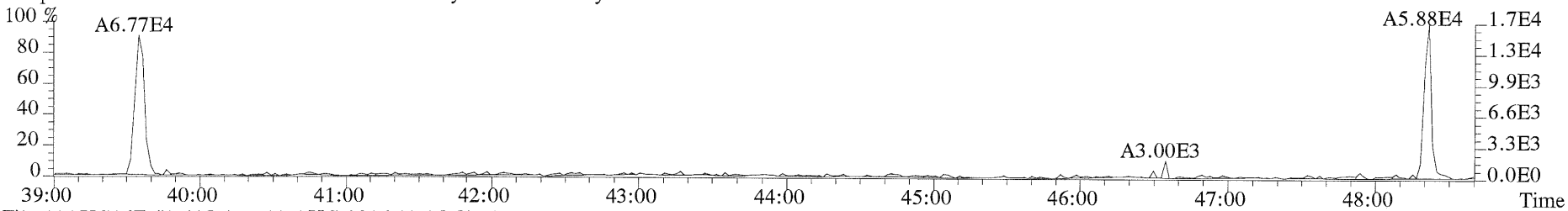
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



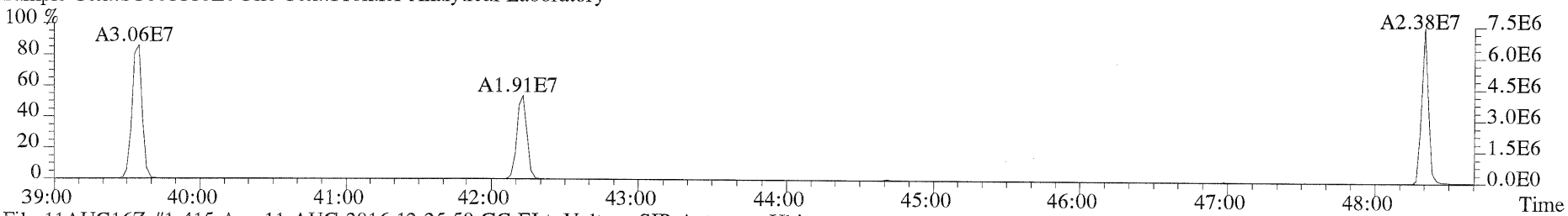
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



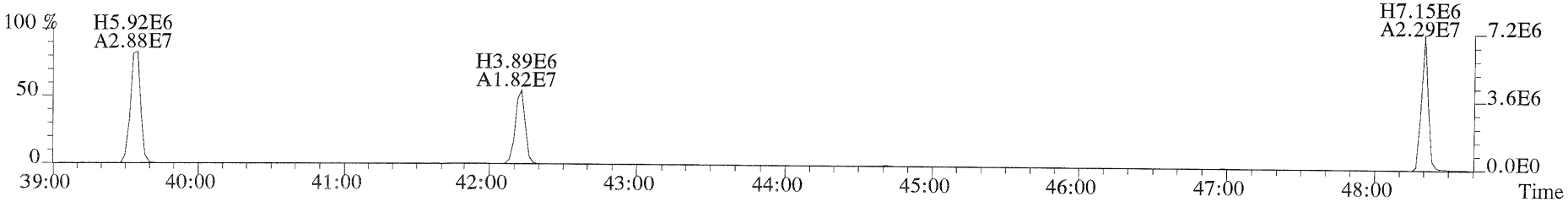
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
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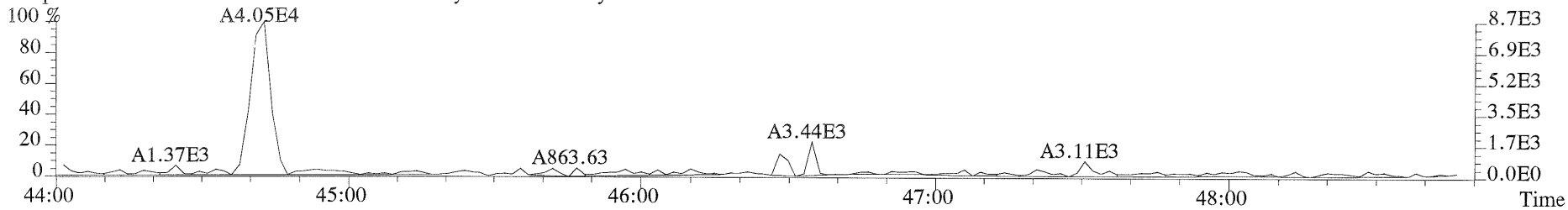
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
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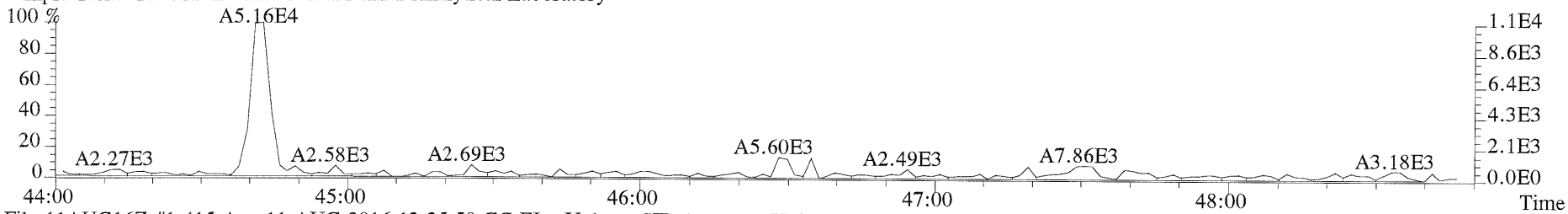
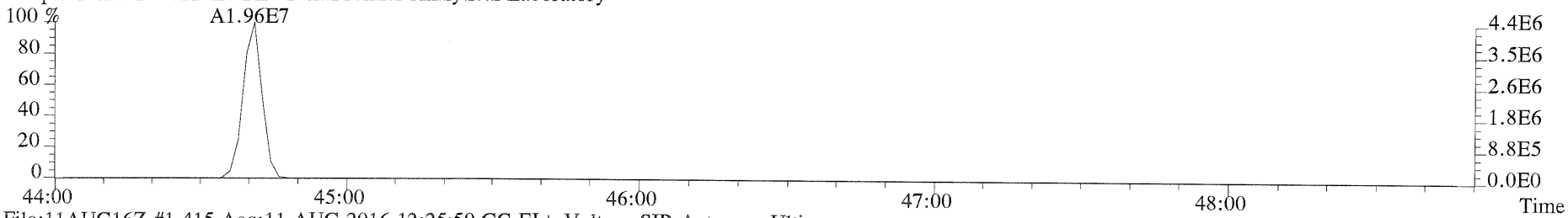
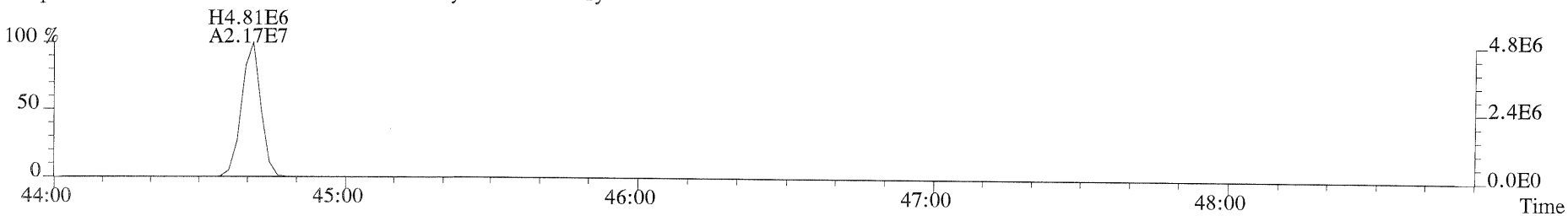
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



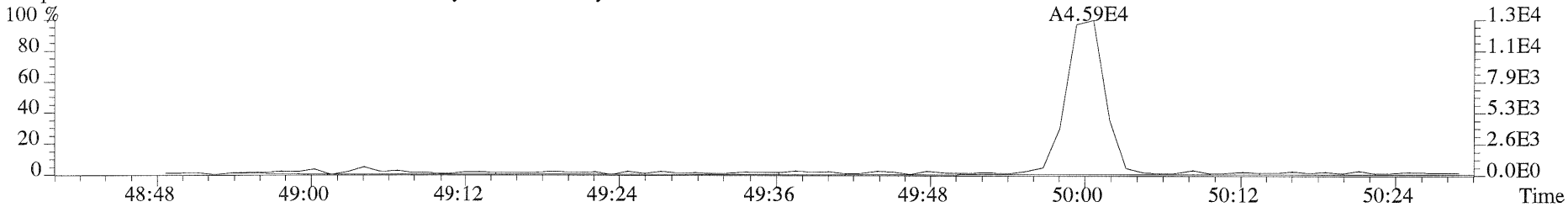
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



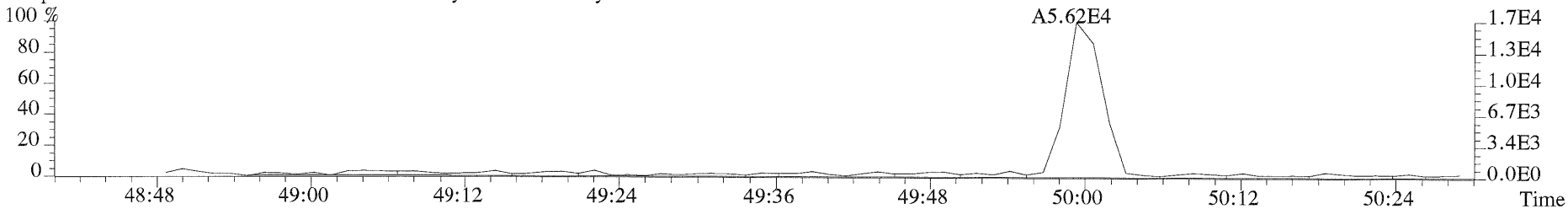
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



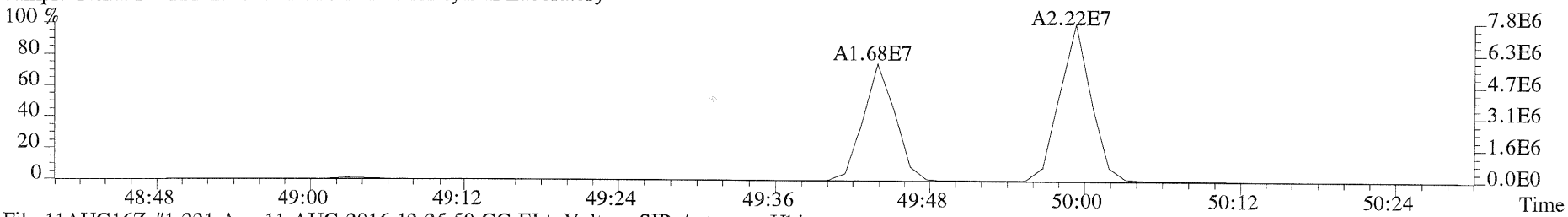
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



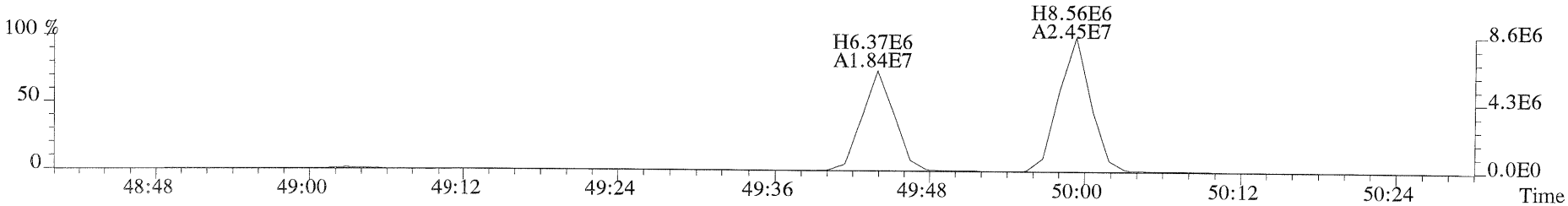
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



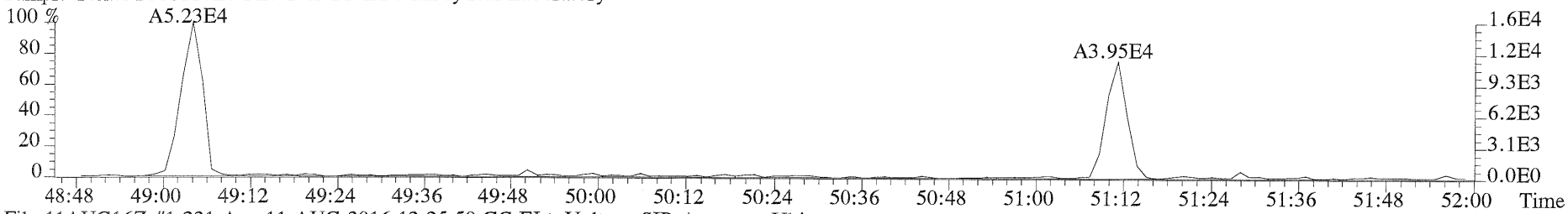
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



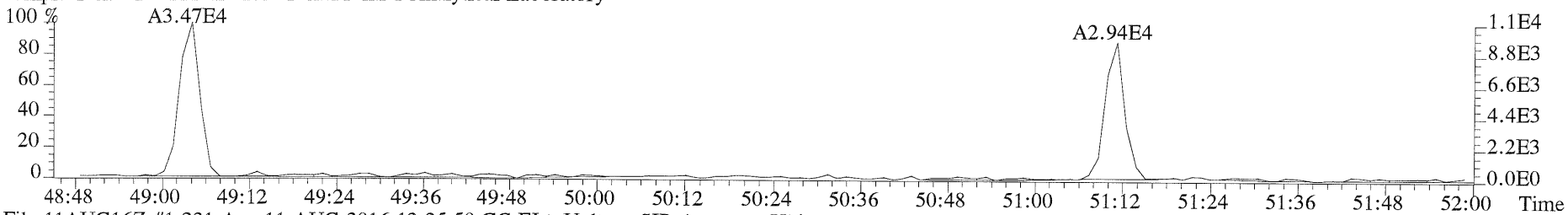
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



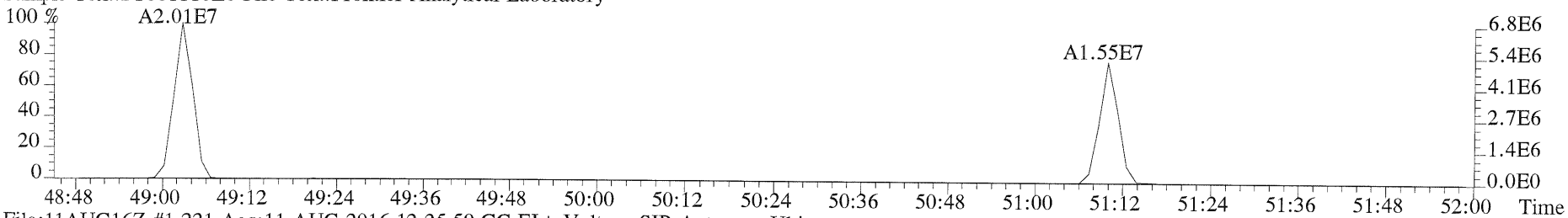
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



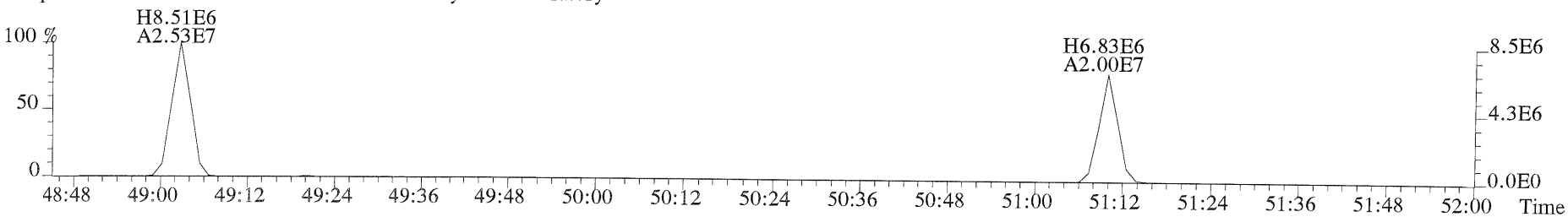
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



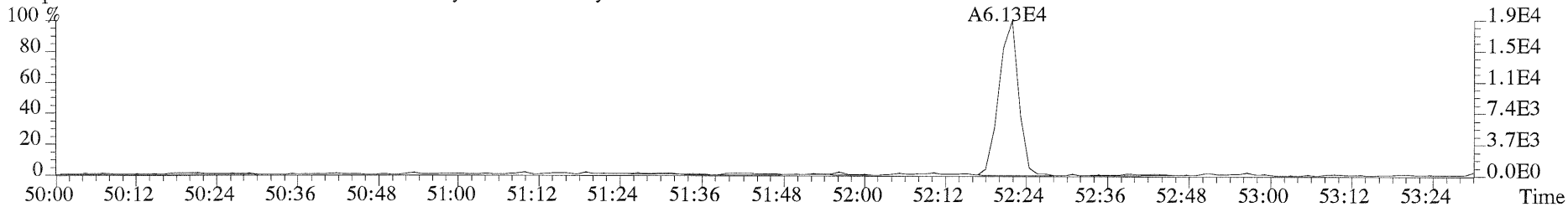
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



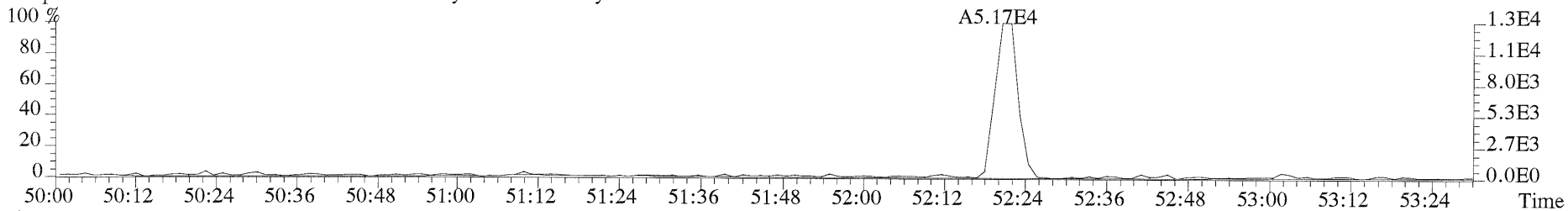
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



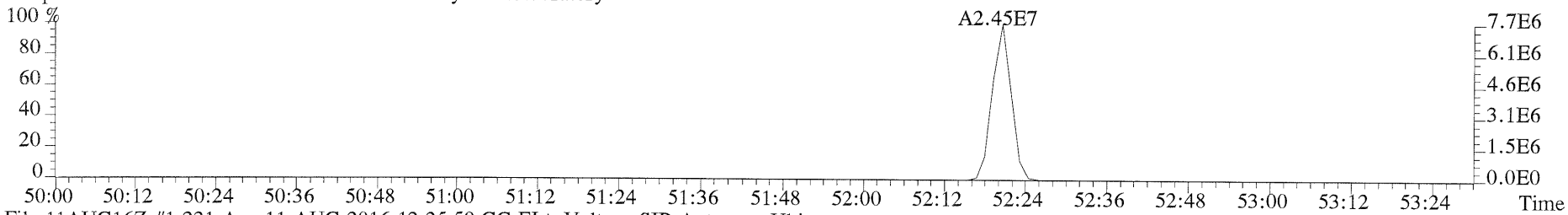
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



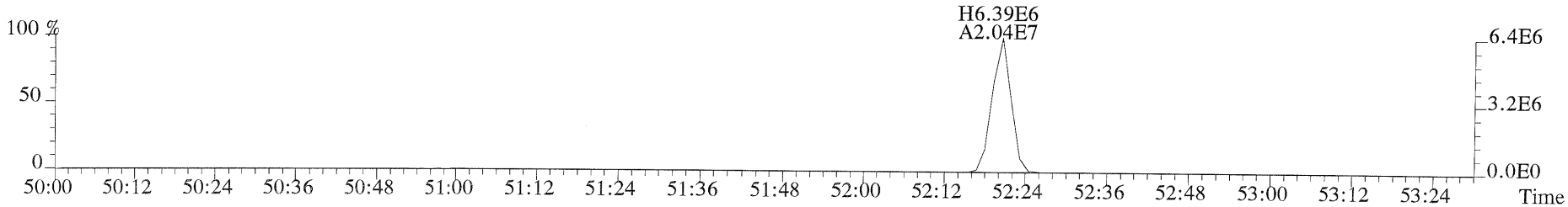
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



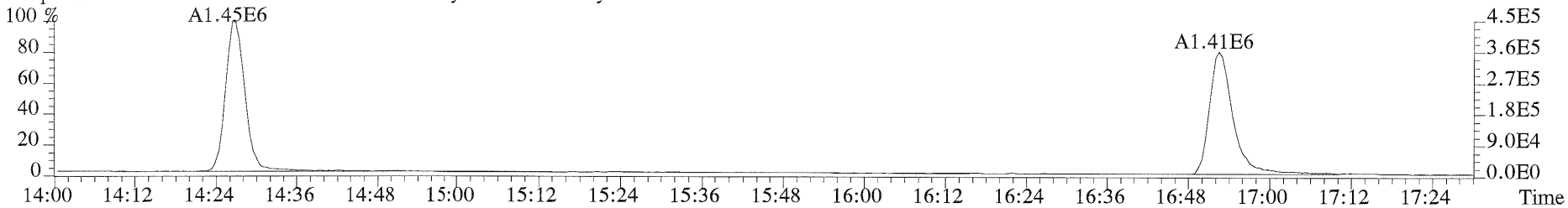
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



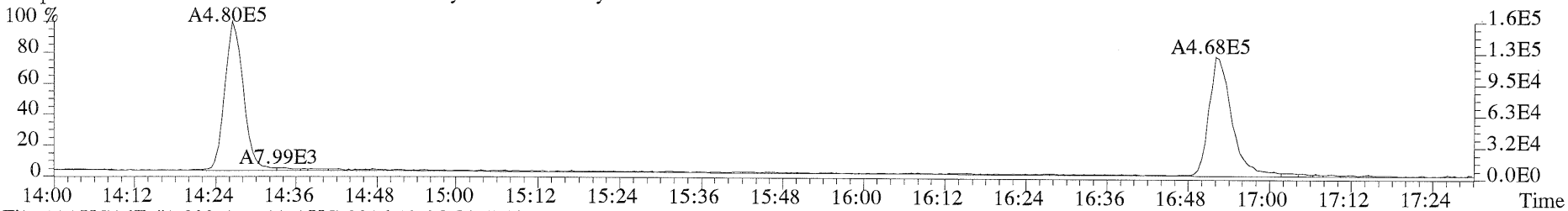
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



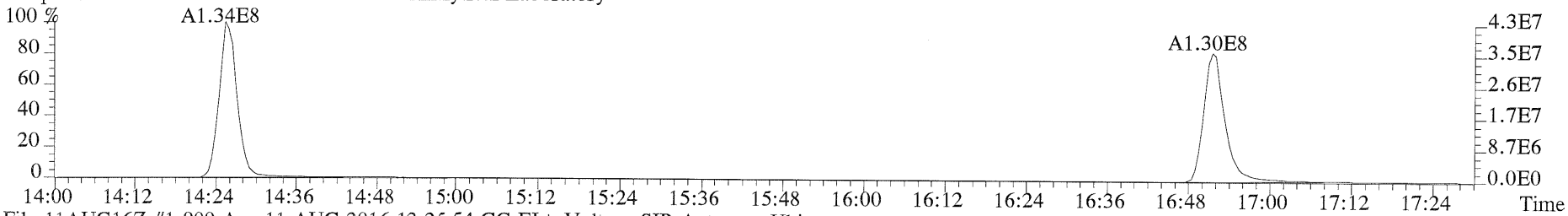
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 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:ST081116Z1 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 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:ST081116Z1 File Text:Frontier Analytical Laboratory



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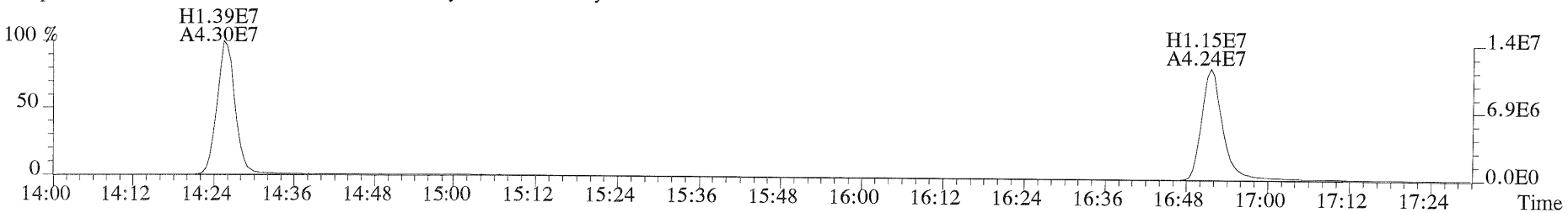
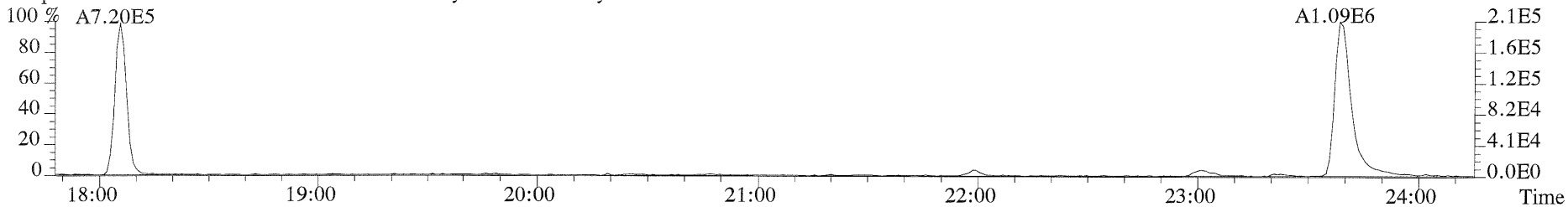
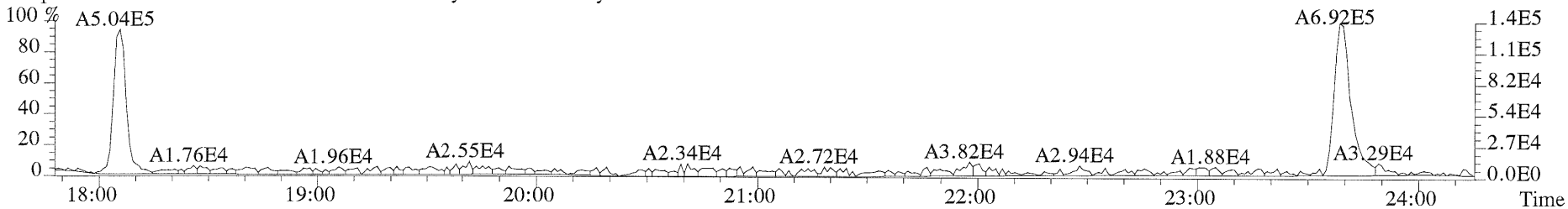
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



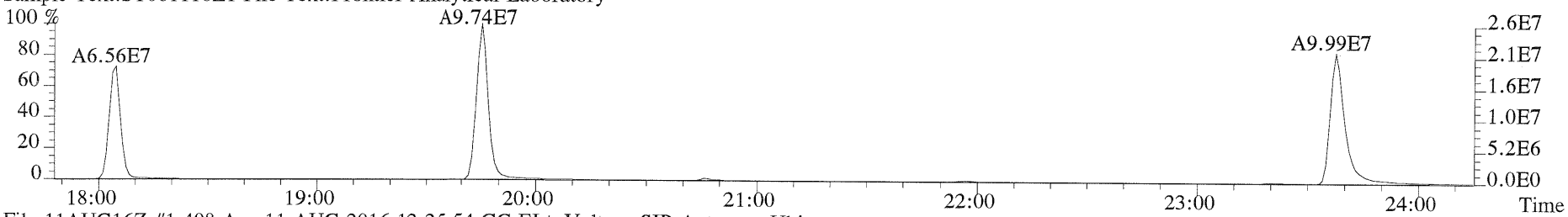
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



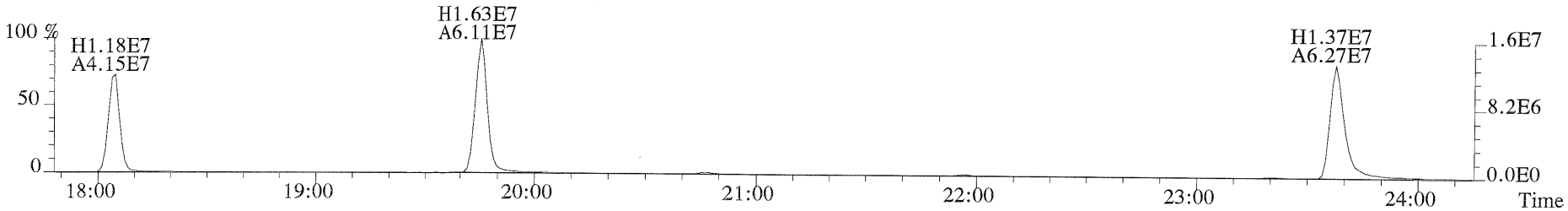
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



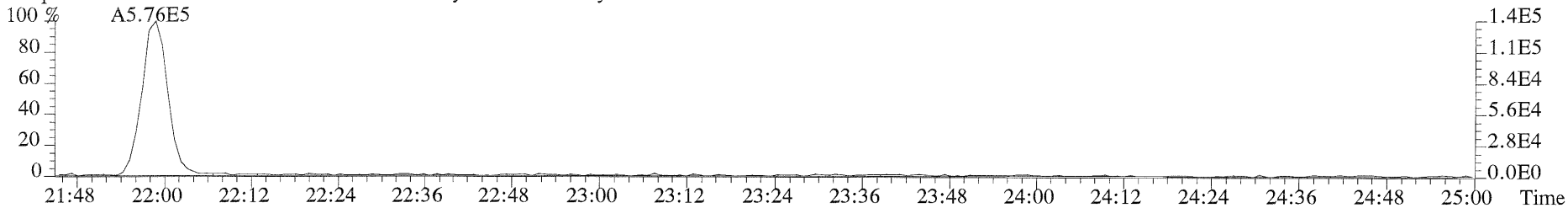
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



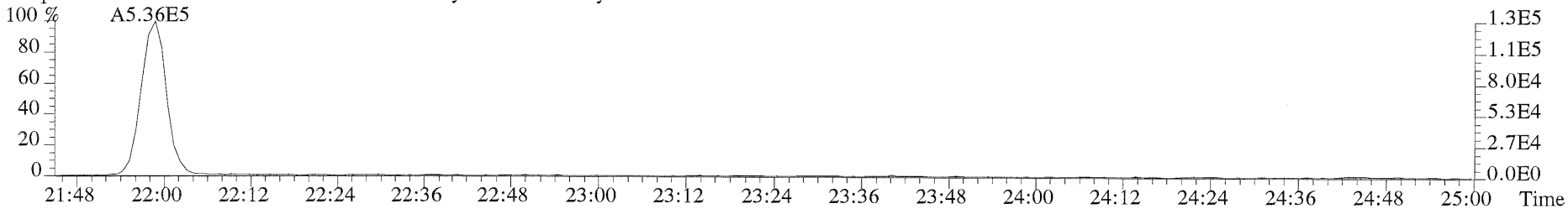
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



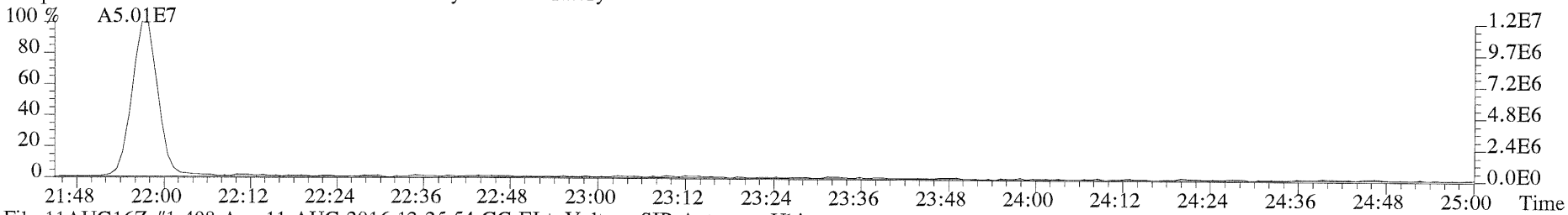
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



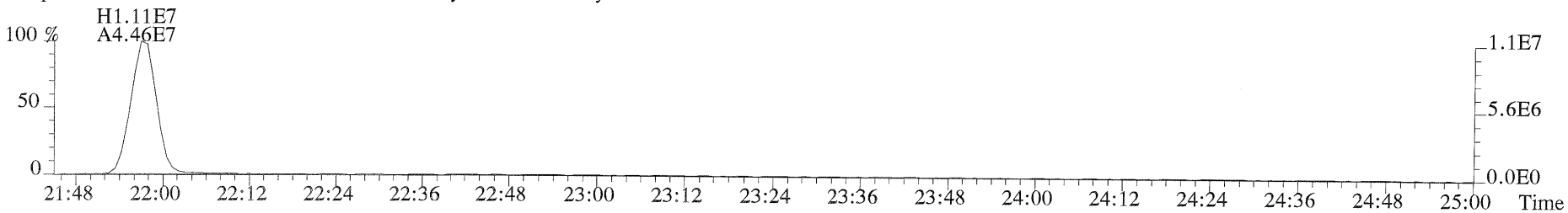
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



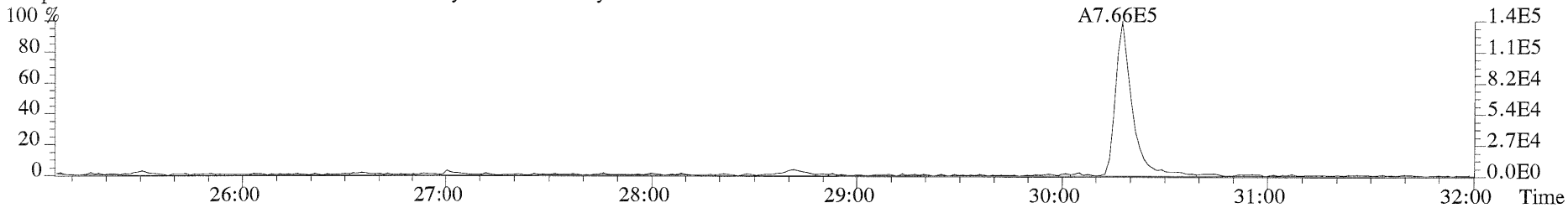
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



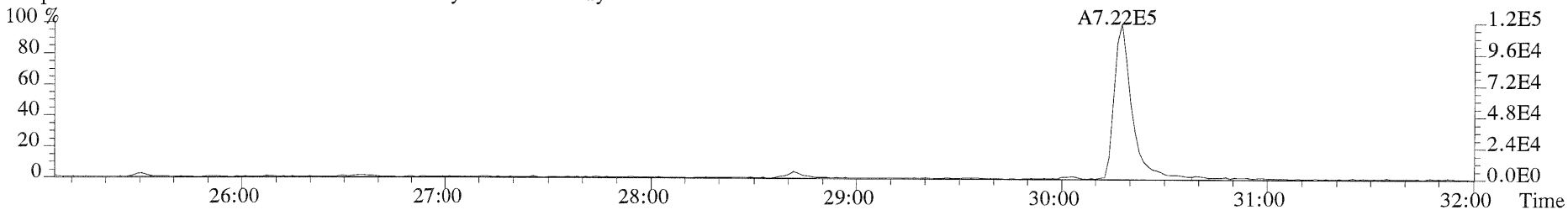
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



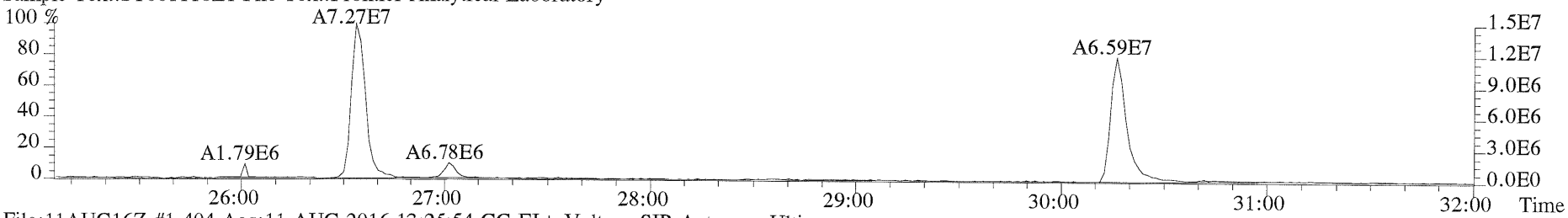
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



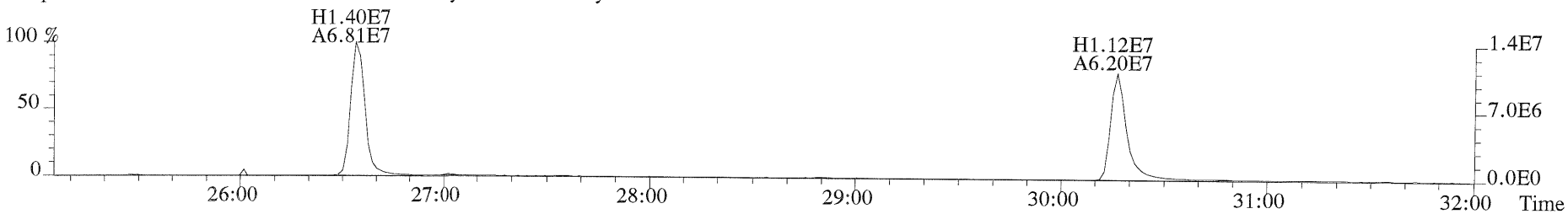
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



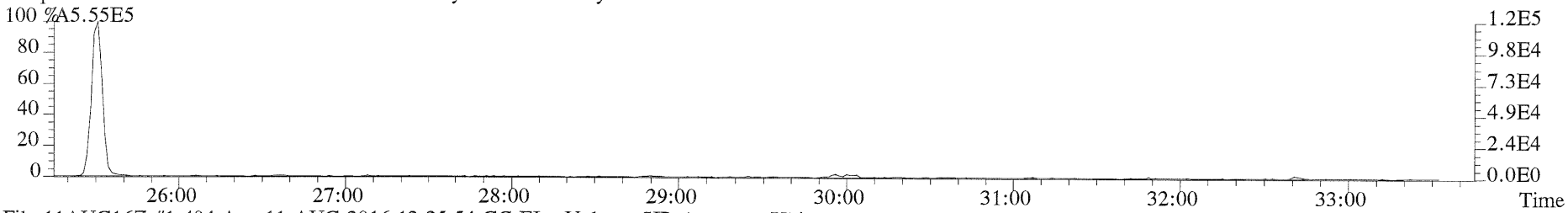
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



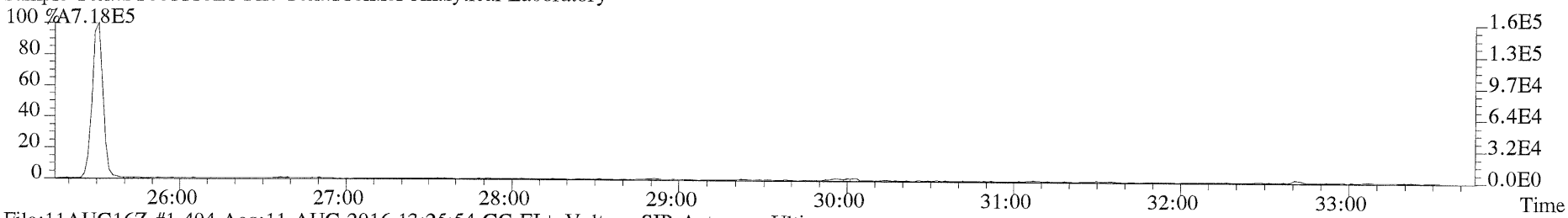
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



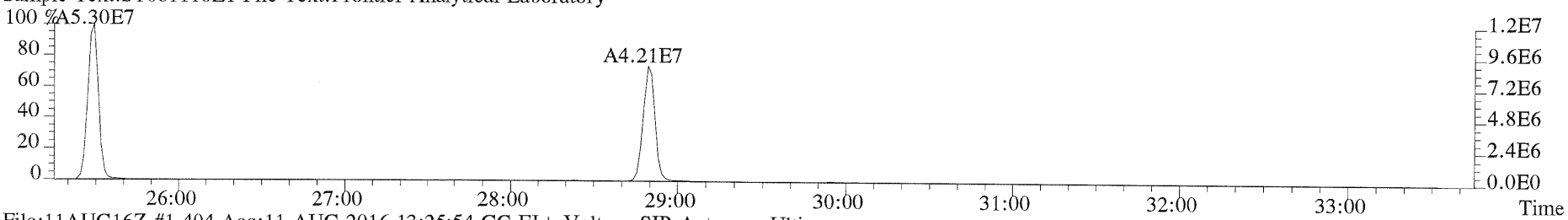
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



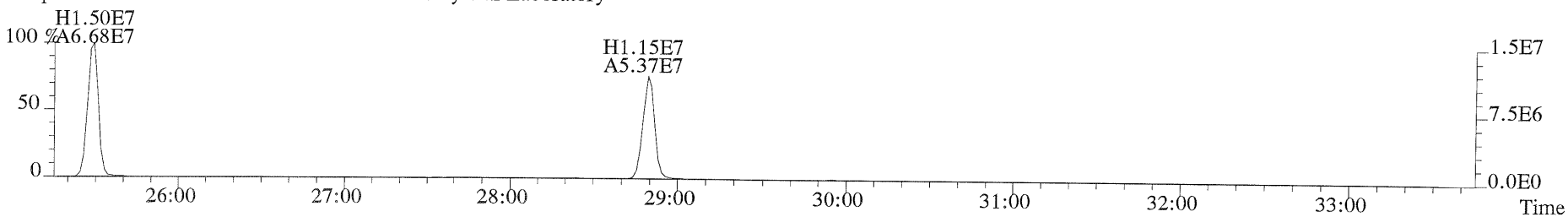
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



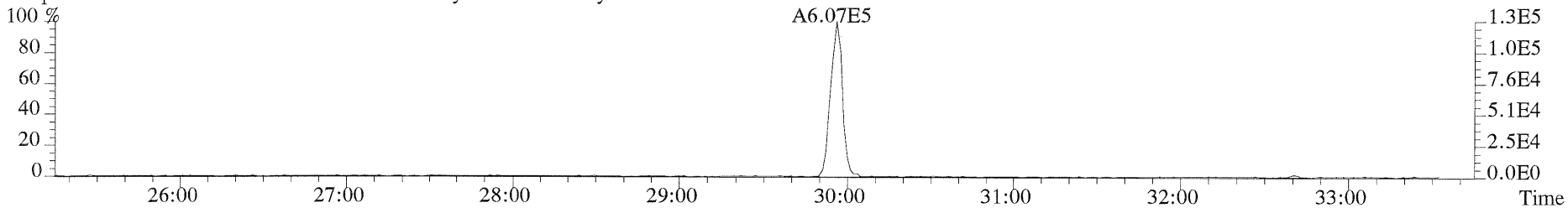
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



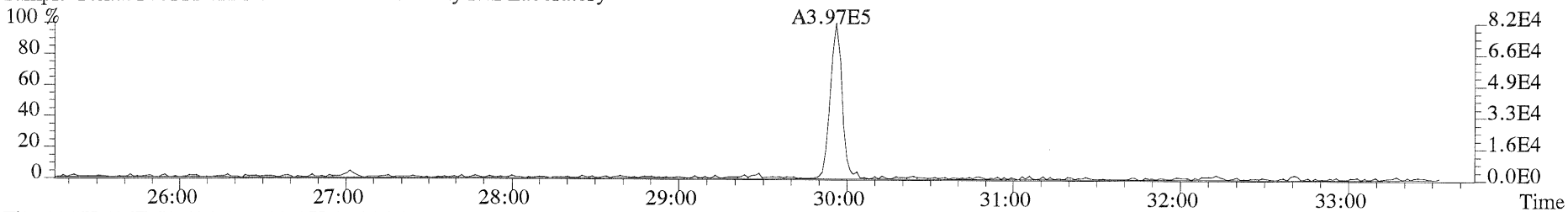
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



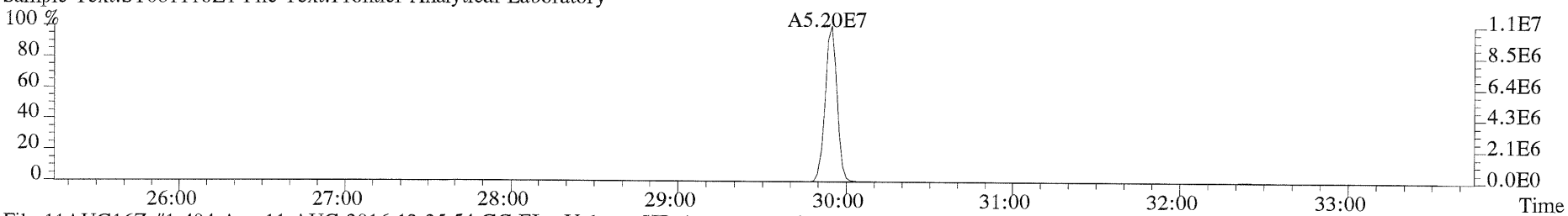
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



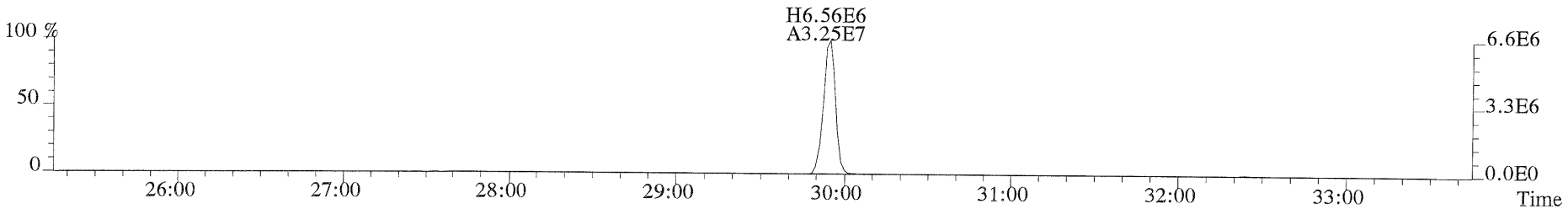
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



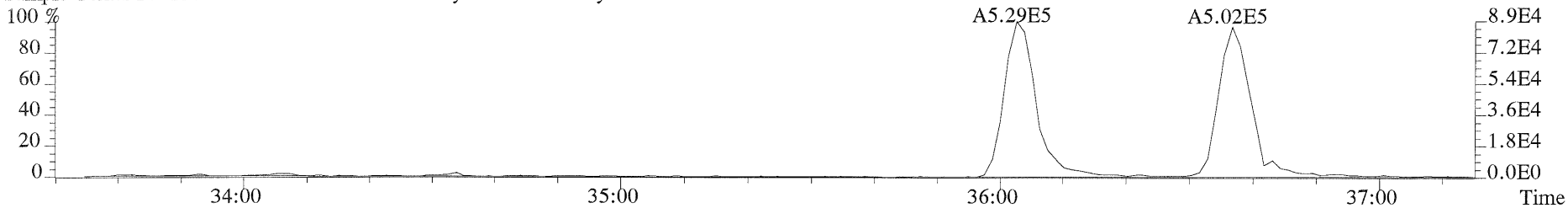
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



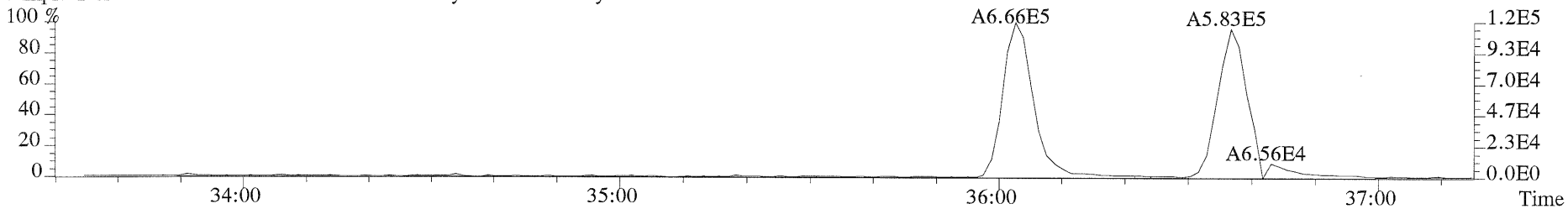
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



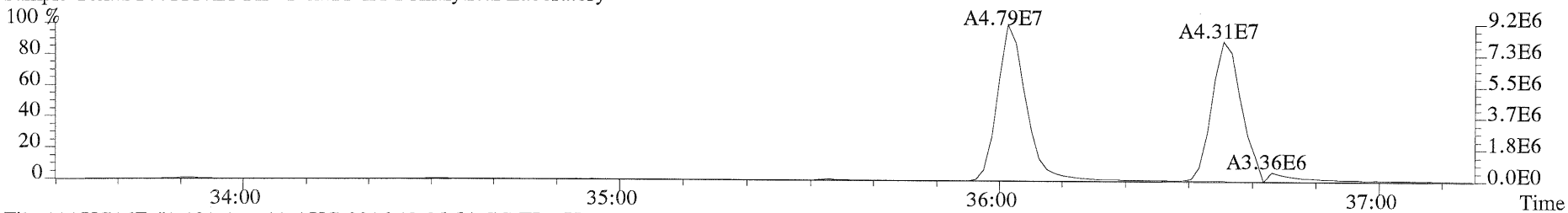
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



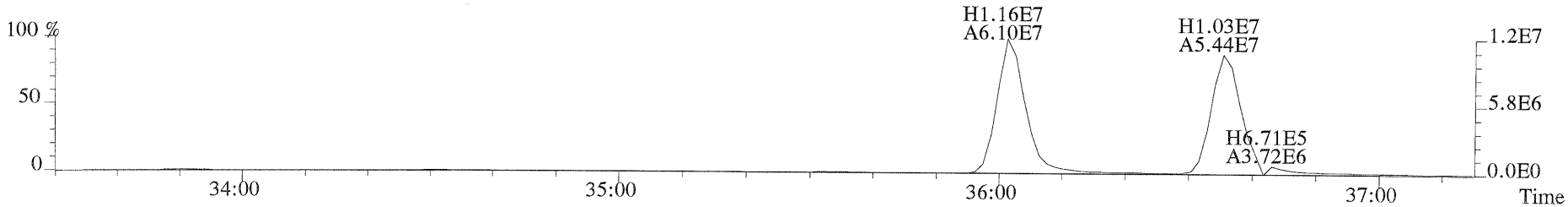
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



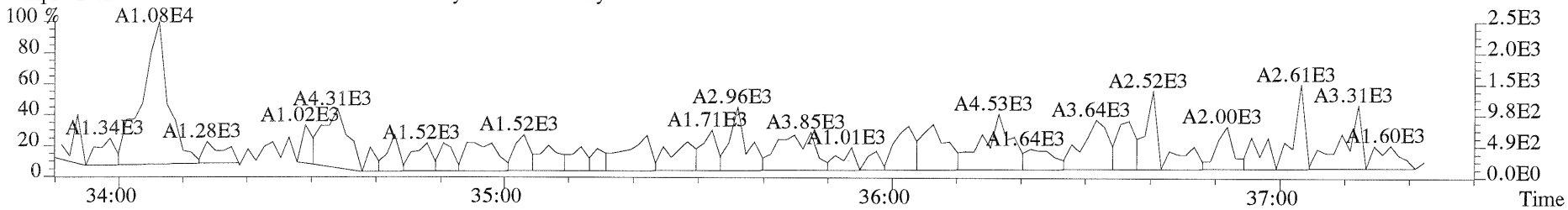
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



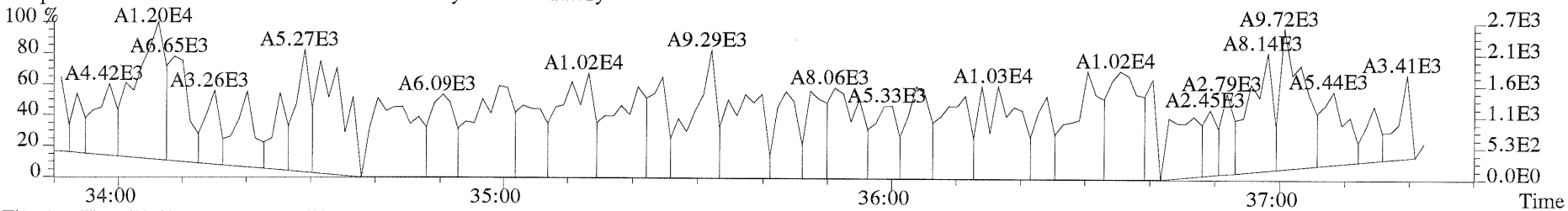
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



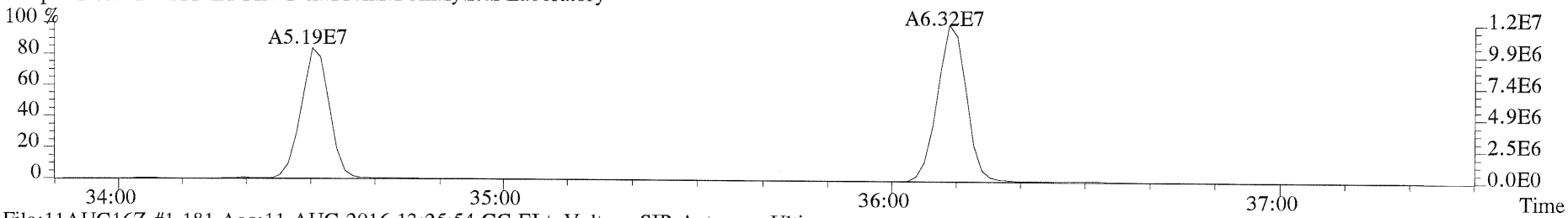
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



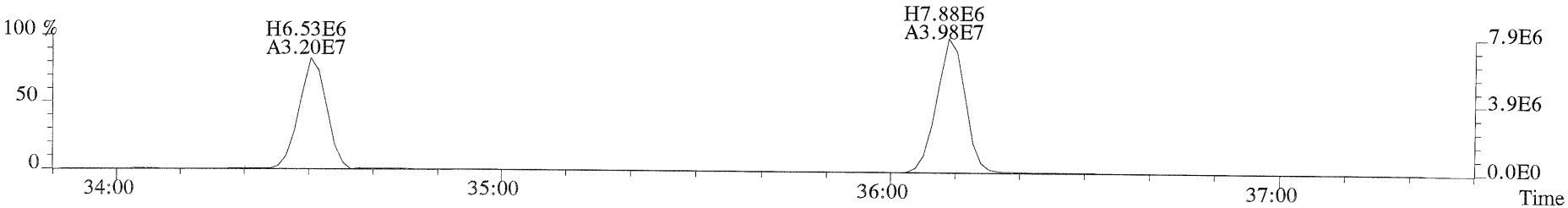
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



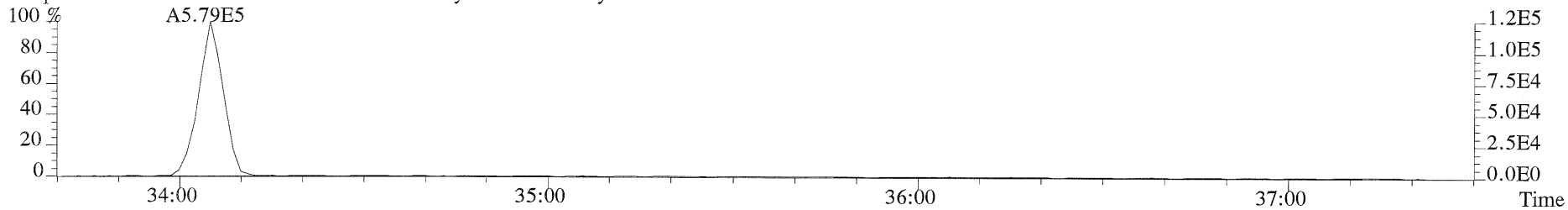
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



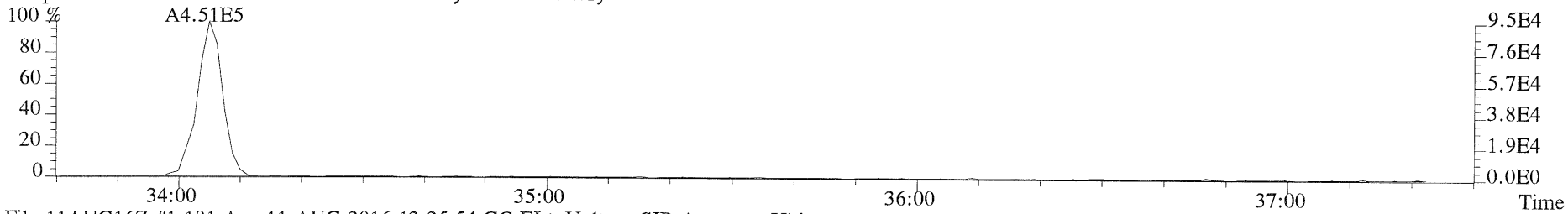
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



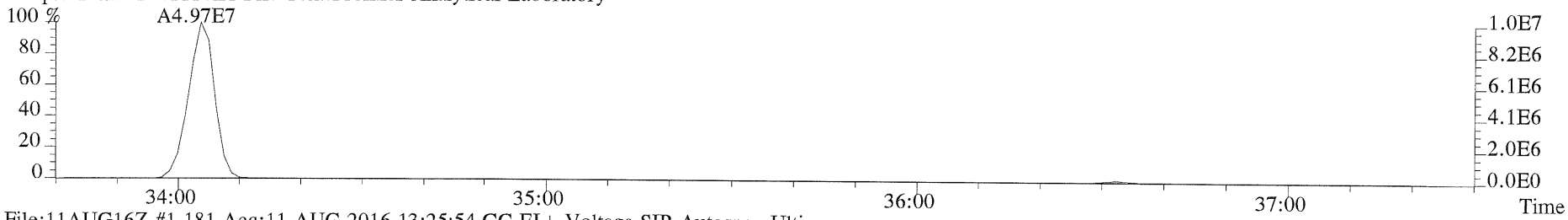
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



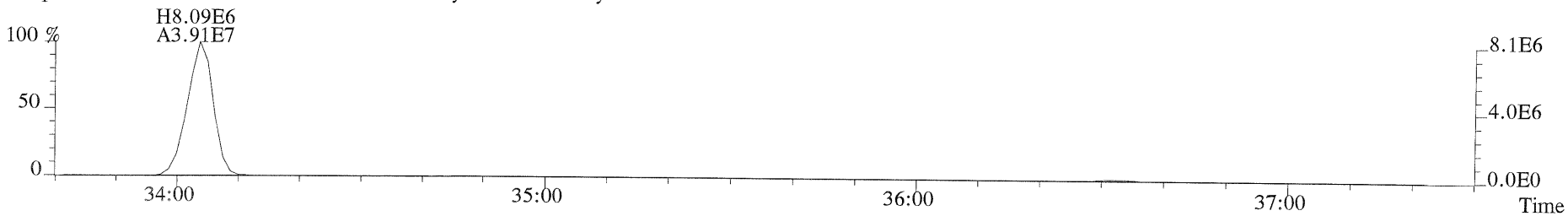
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



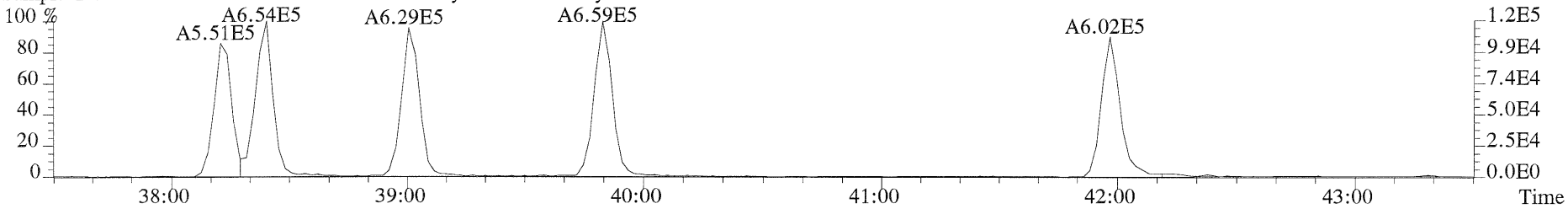
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



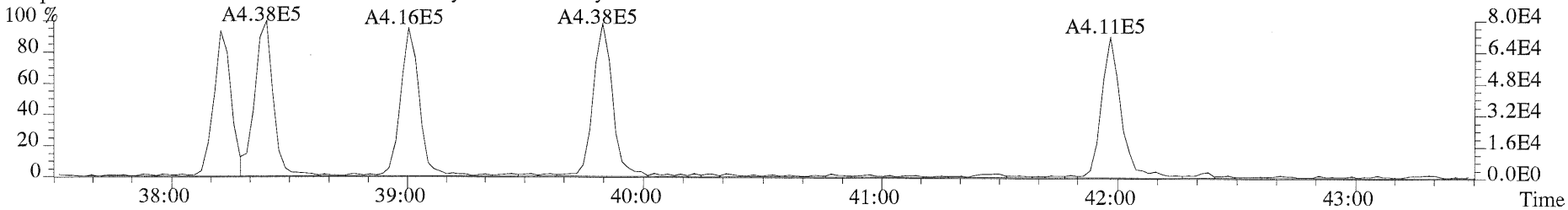
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 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:ST081116Z1 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 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:ST081116Z1 File Text:Frontier Analytical Laboratory



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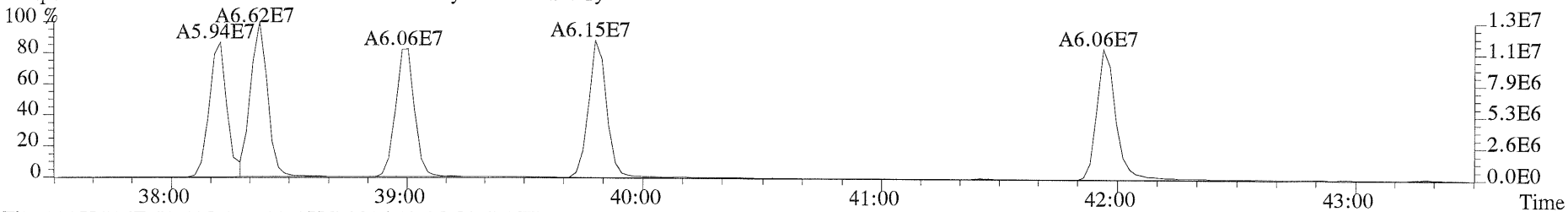
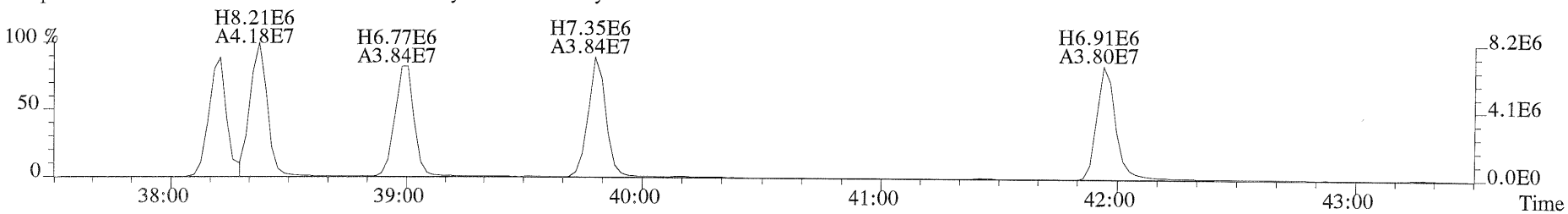
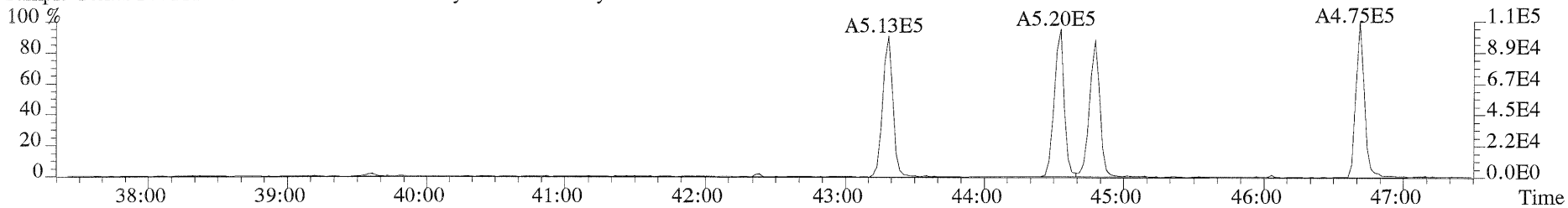
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



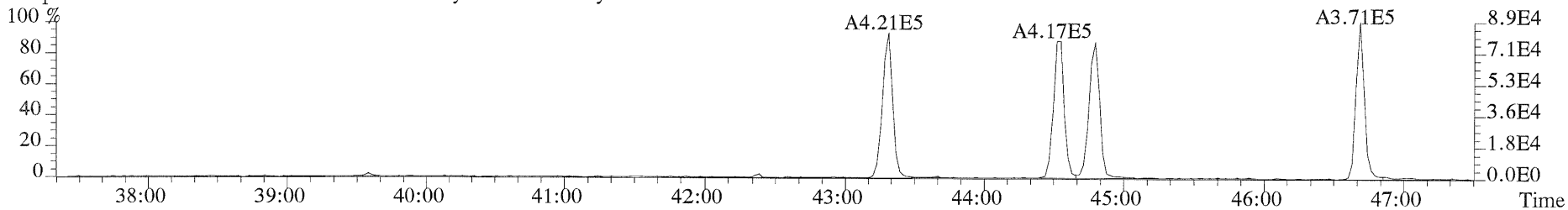
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



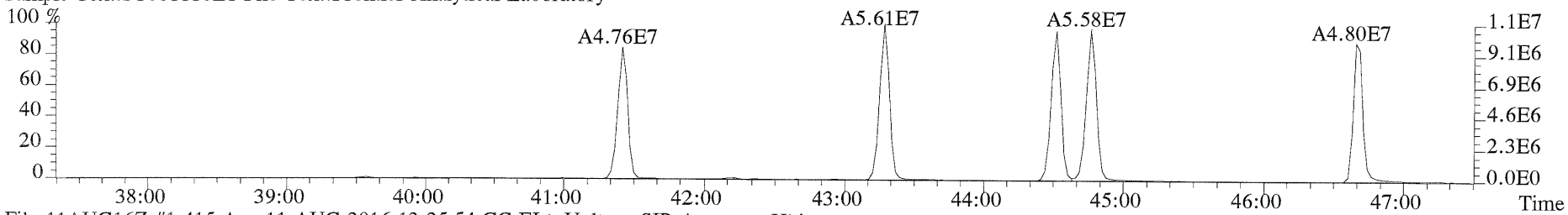
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



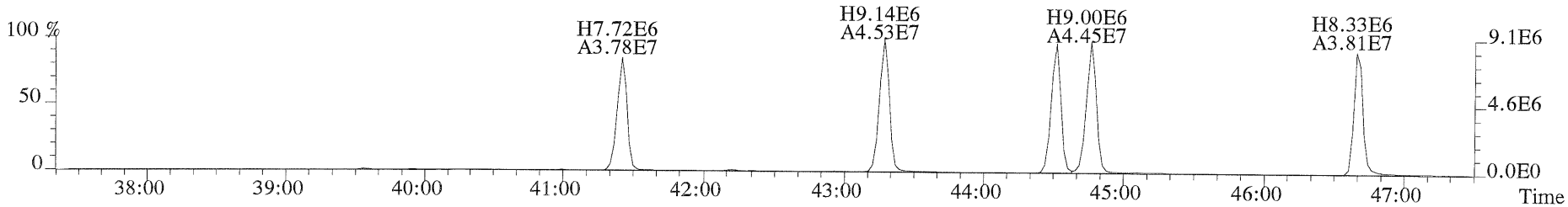
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



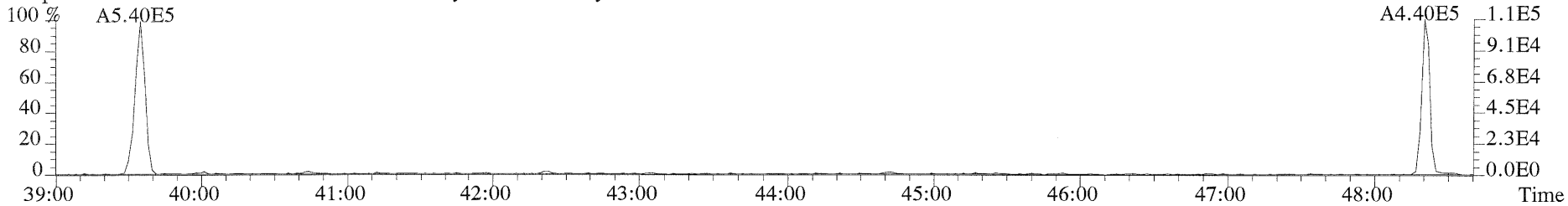
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



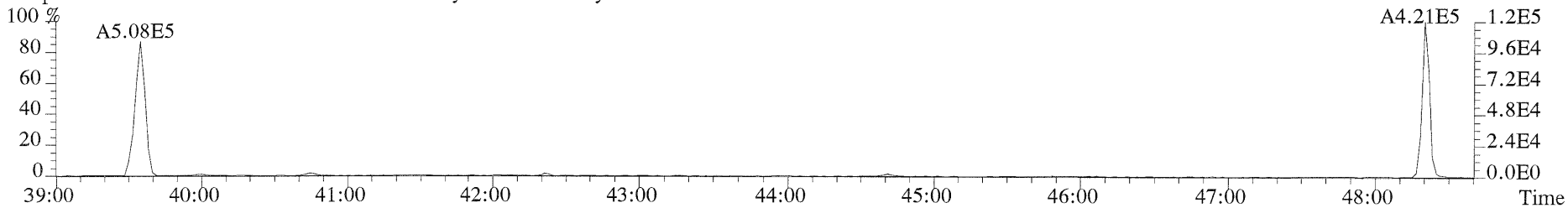
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



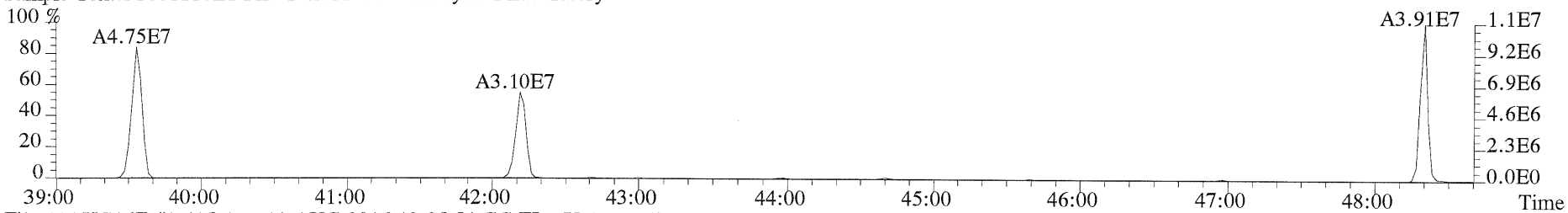
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 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:ST081116Z1 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 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:ST081116Z1 File Text:Frontier Analytical Laboratory



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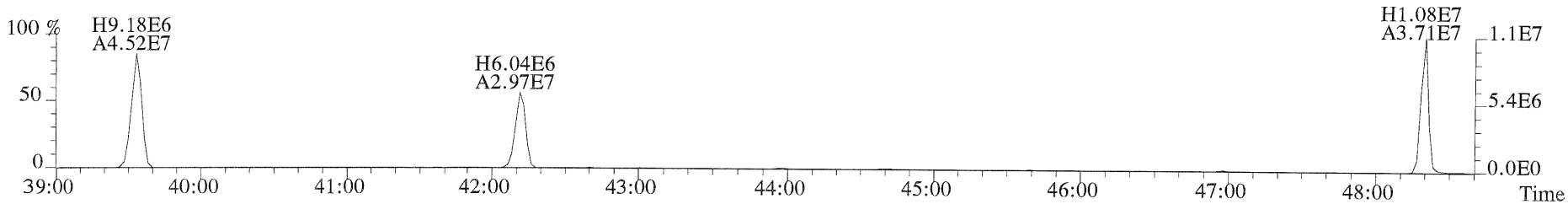
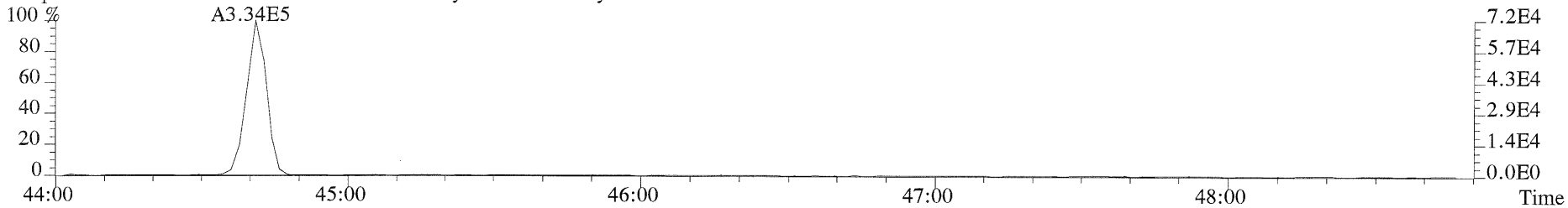
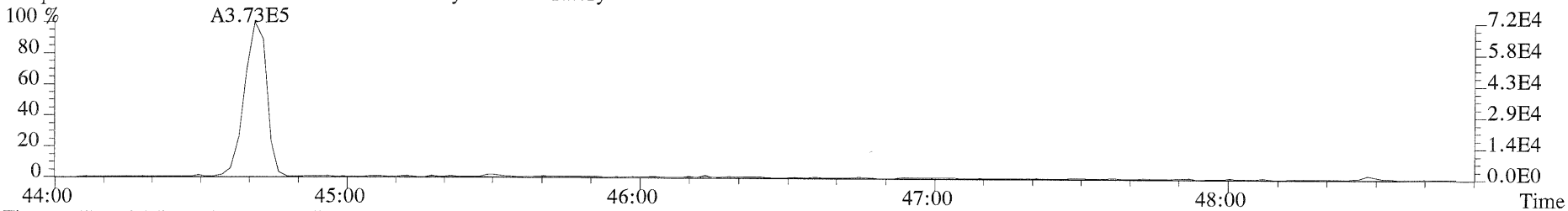
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



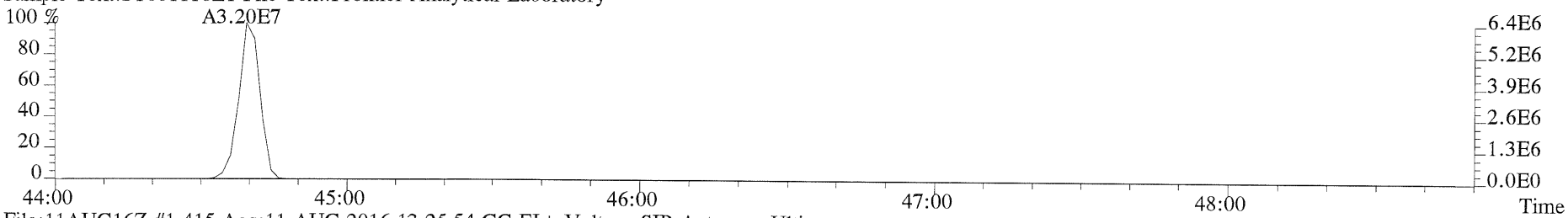
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



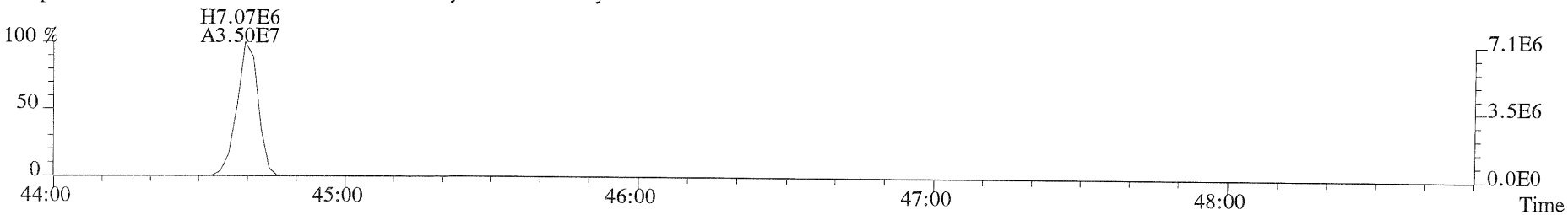
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



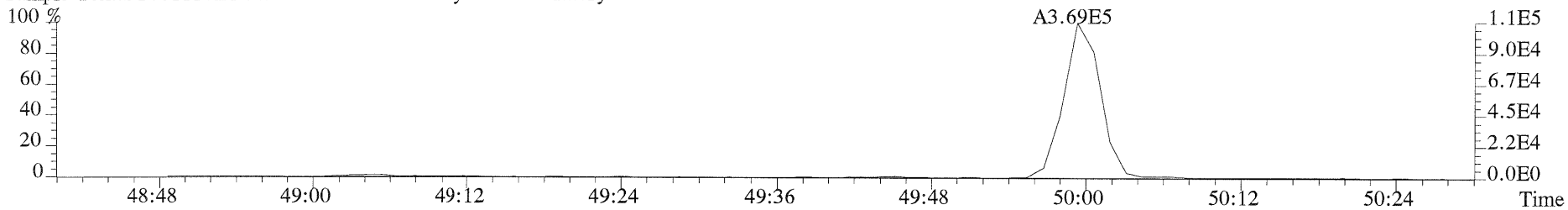
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



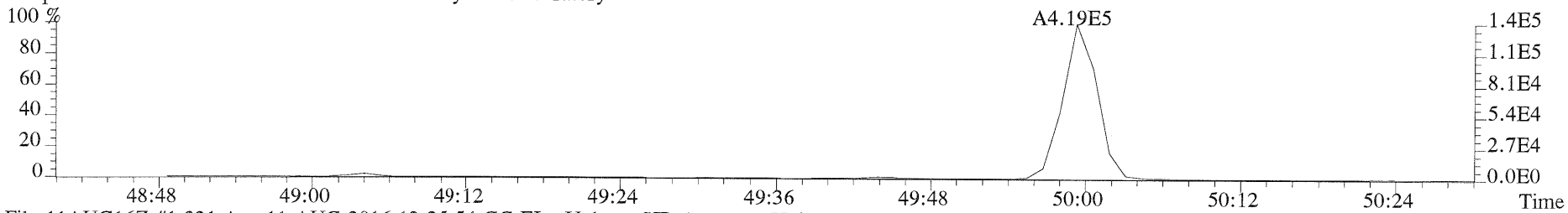
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



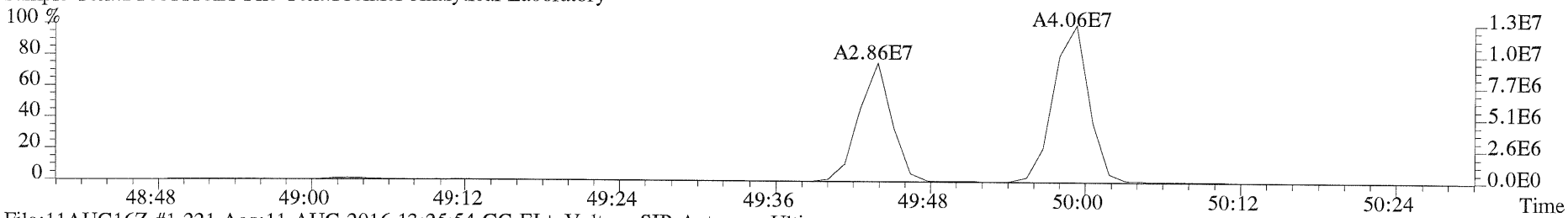
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



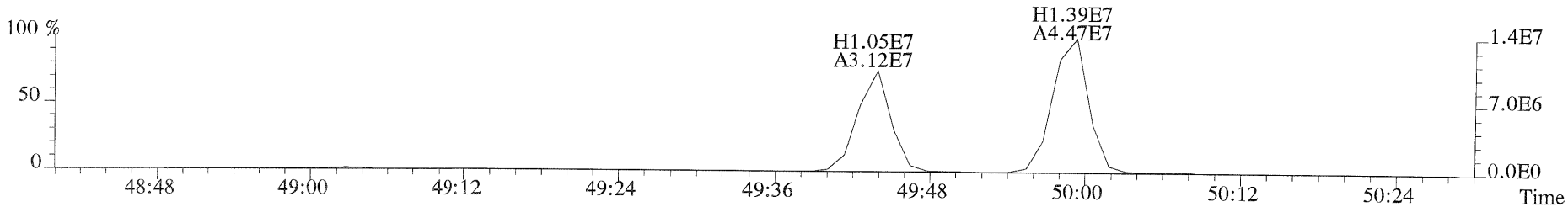
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



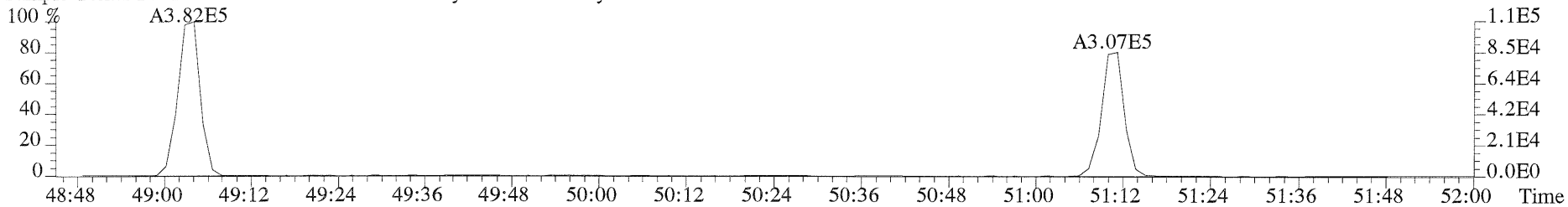
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



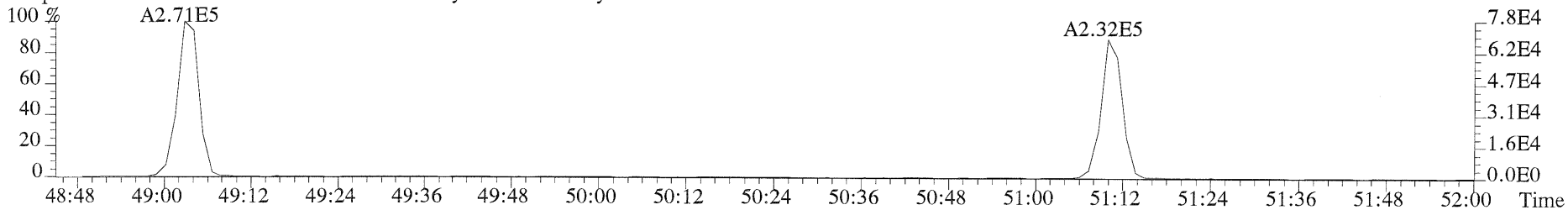
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



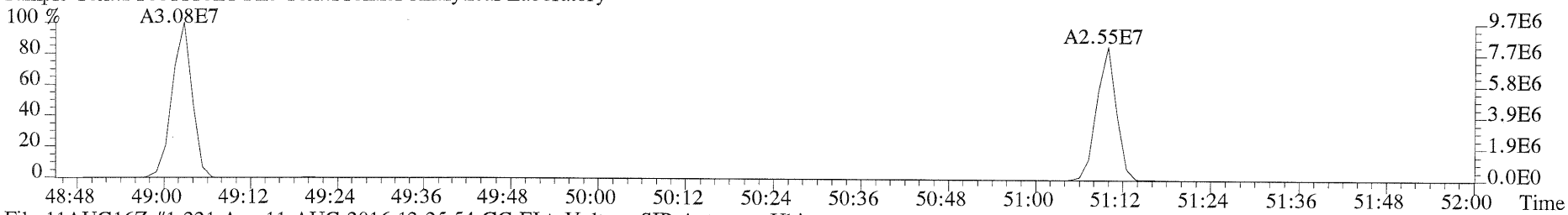
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



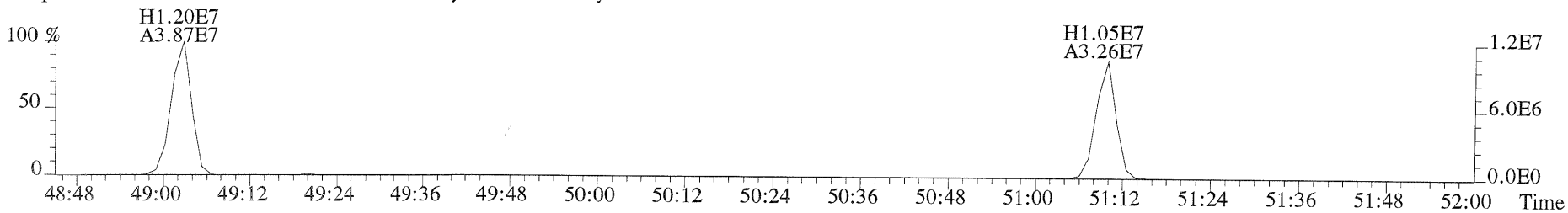
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



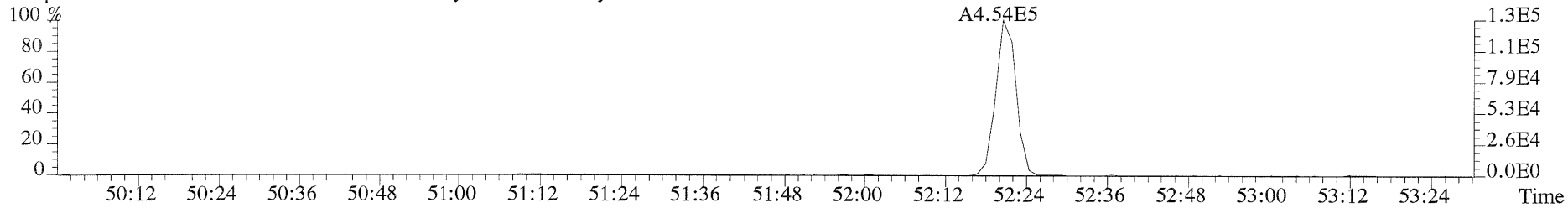
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



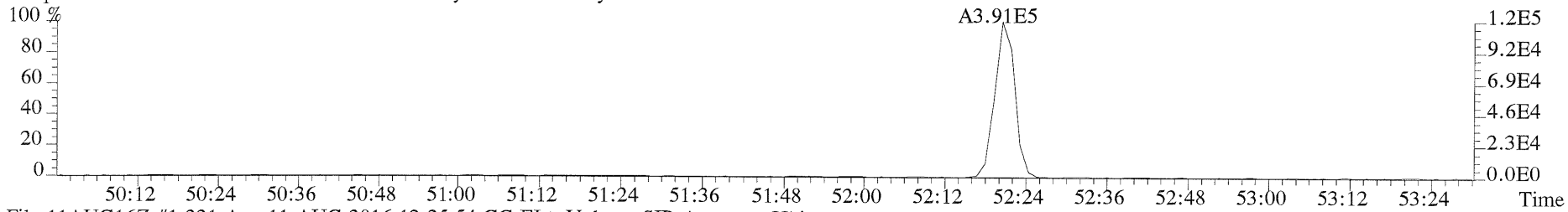
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



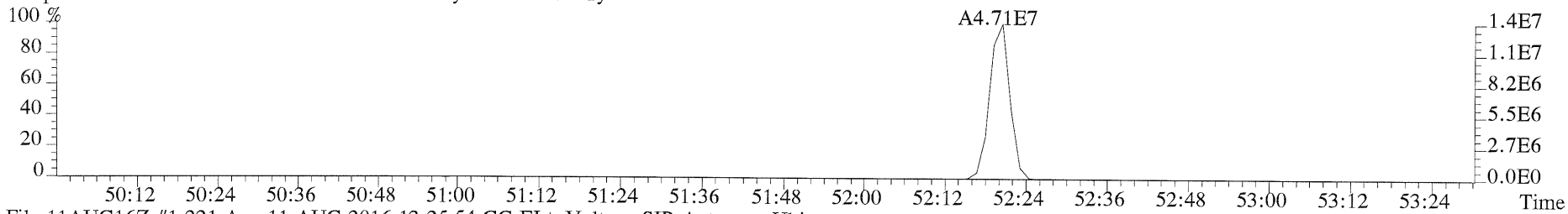
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



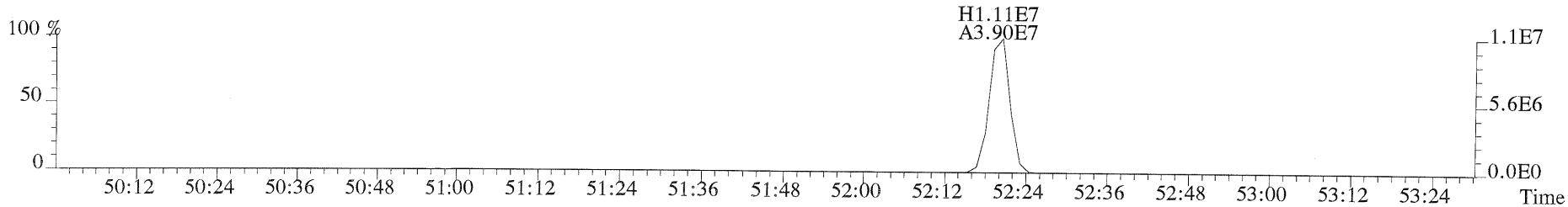
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



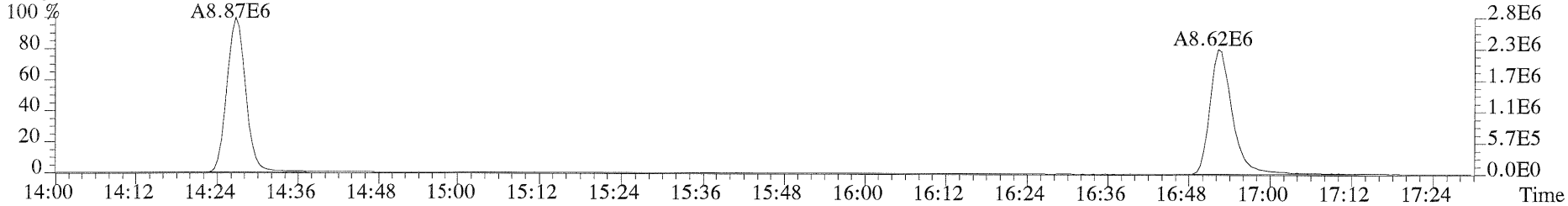
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



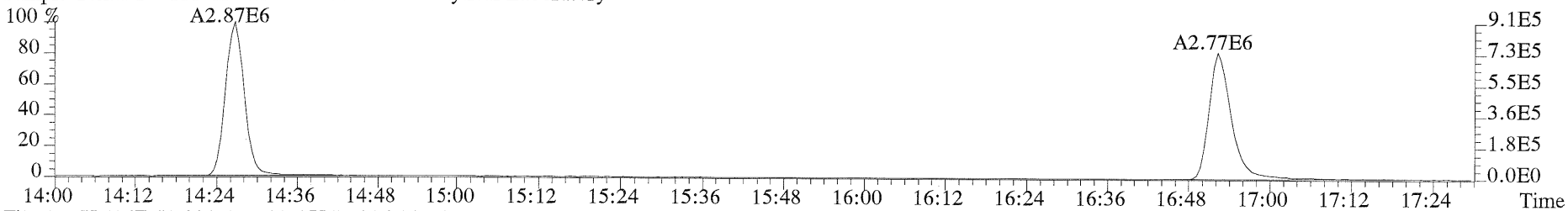
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



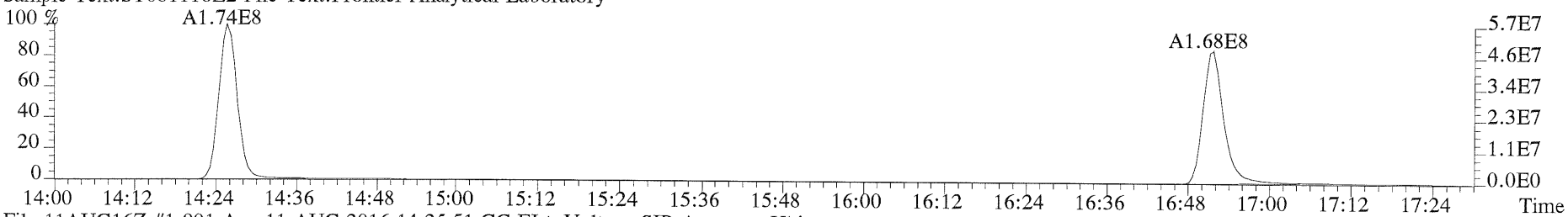
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



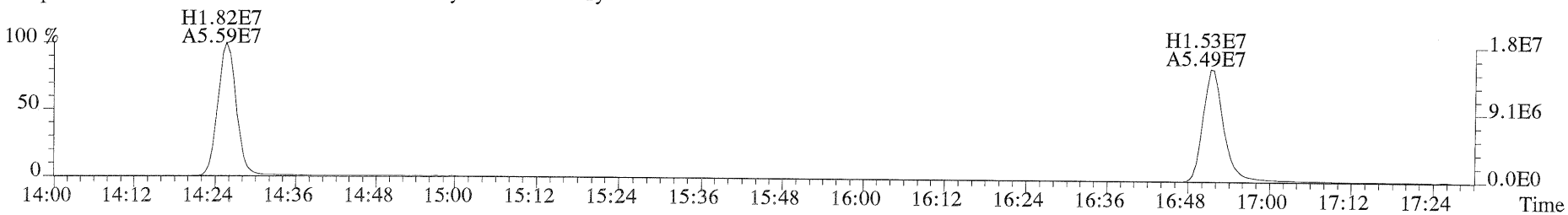
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



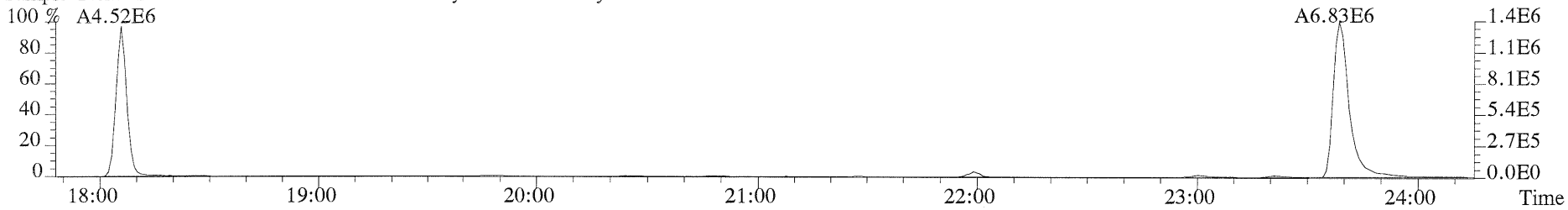
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



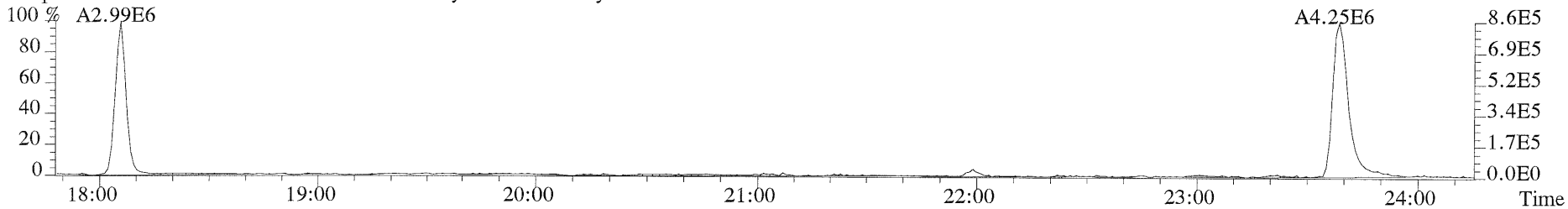
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



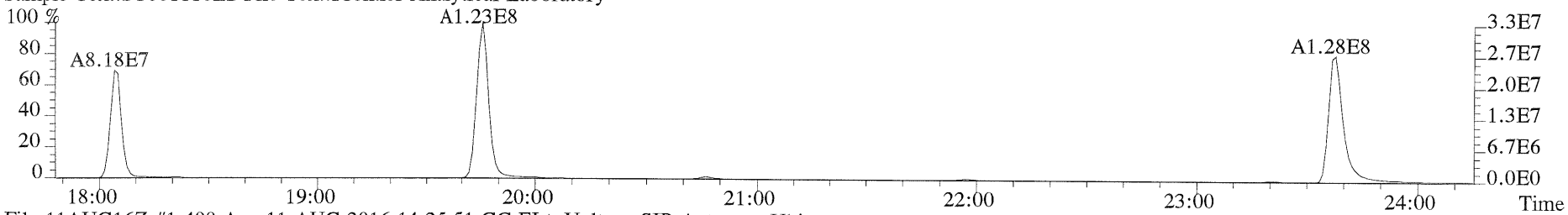
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



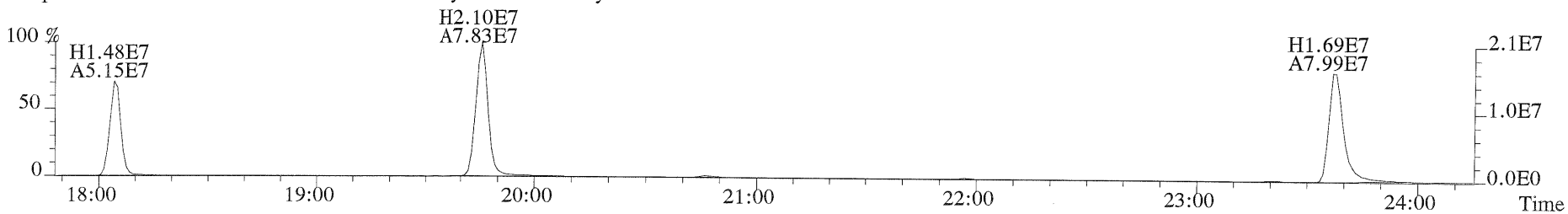
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



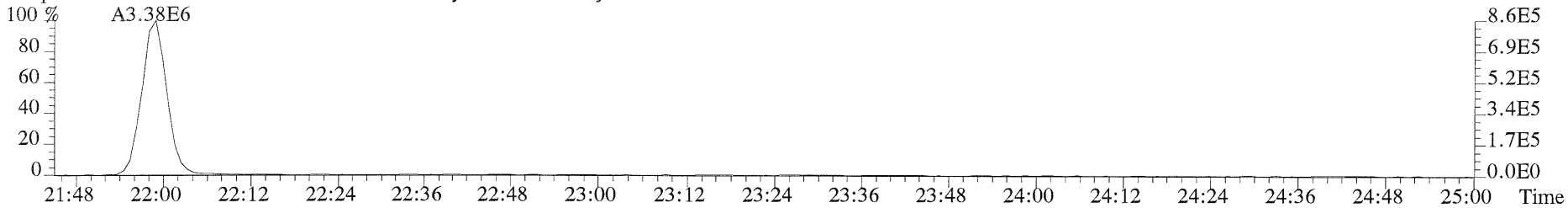
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



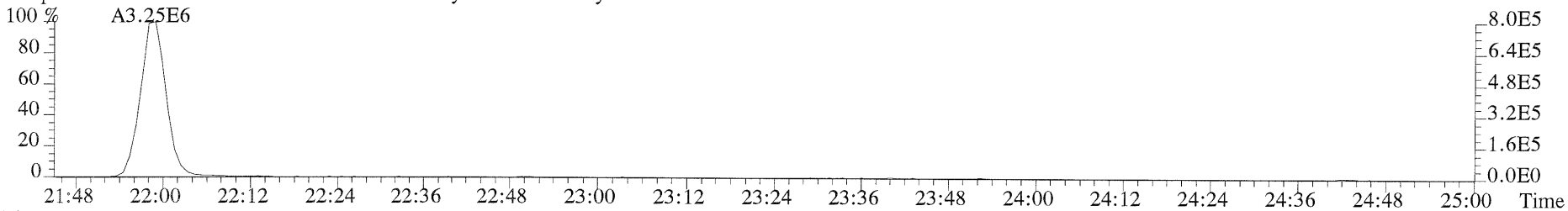
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



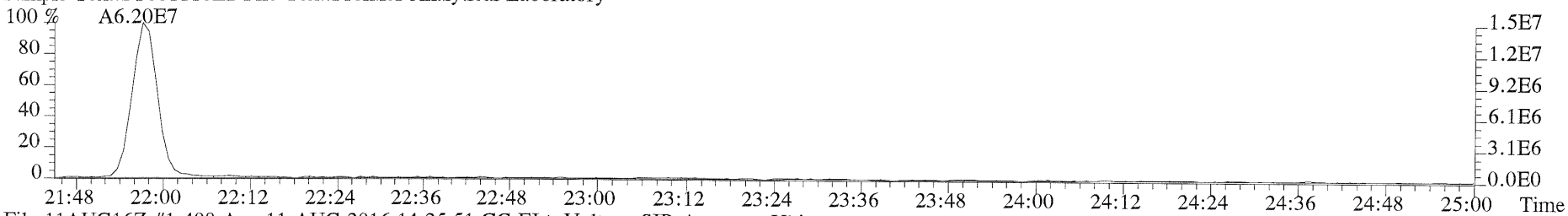
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



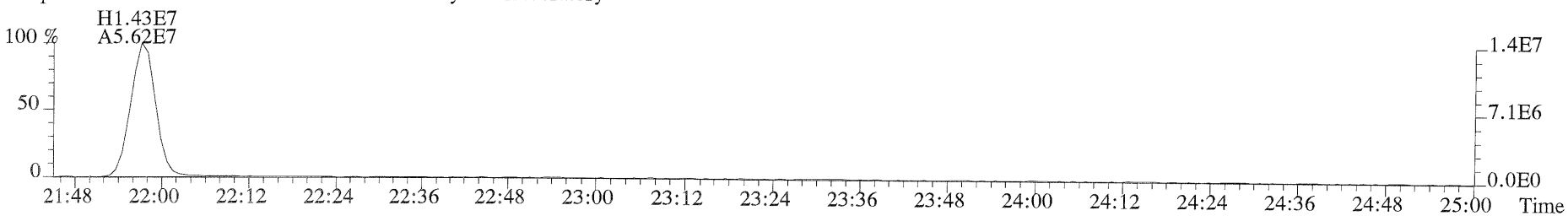
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



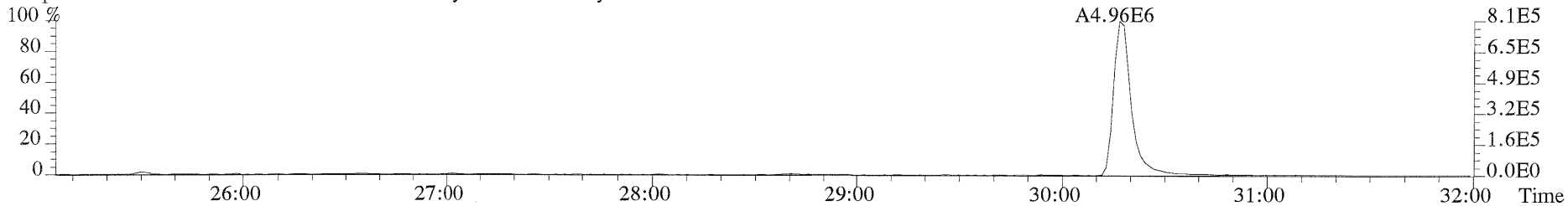
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



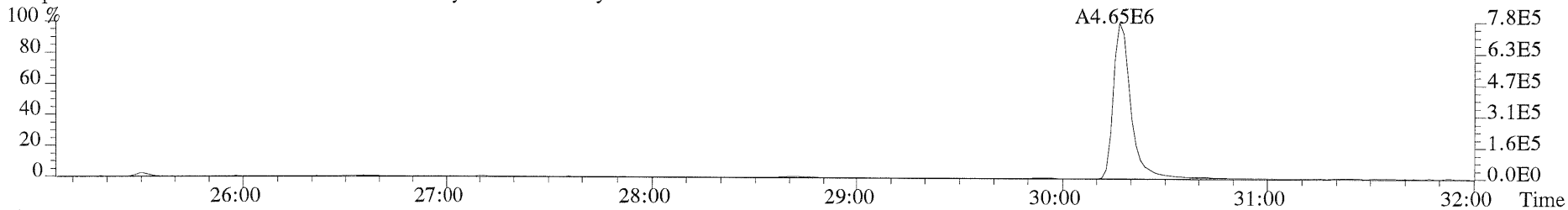
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



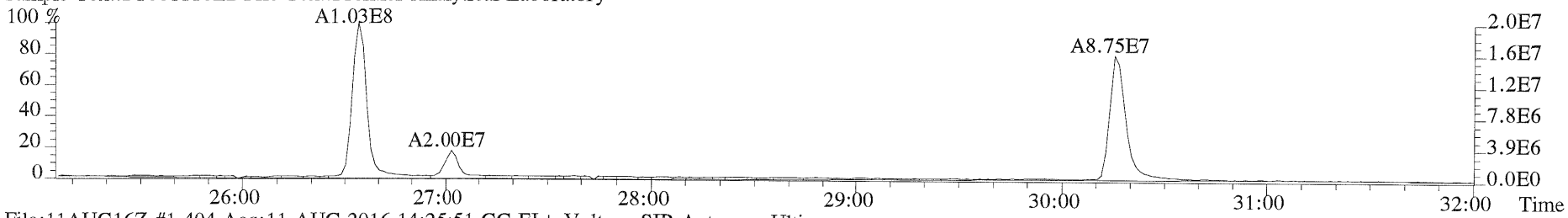
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



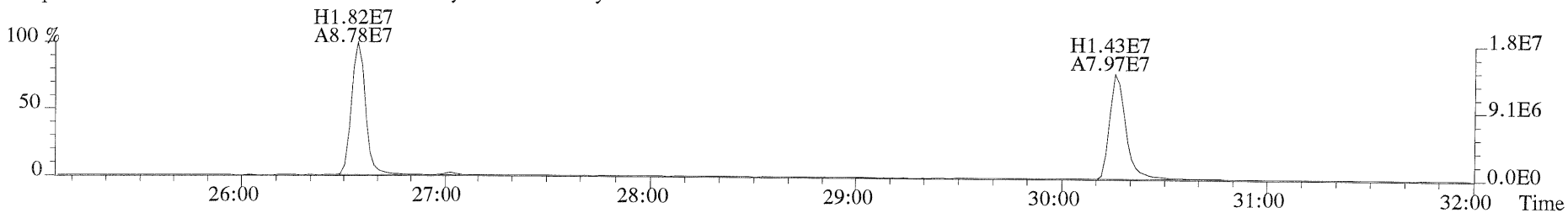
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



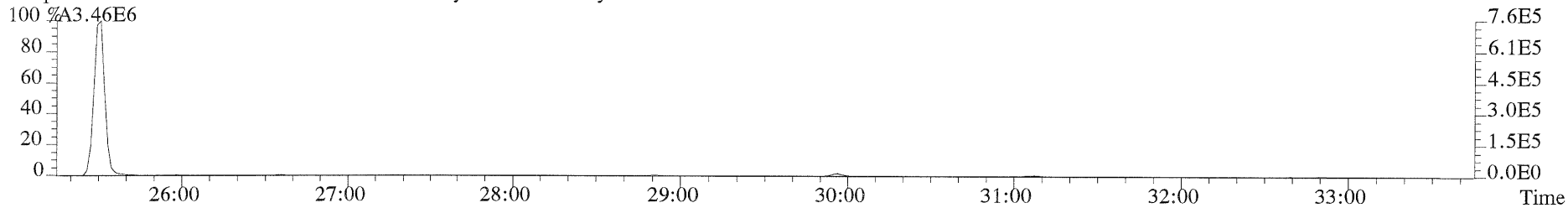
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



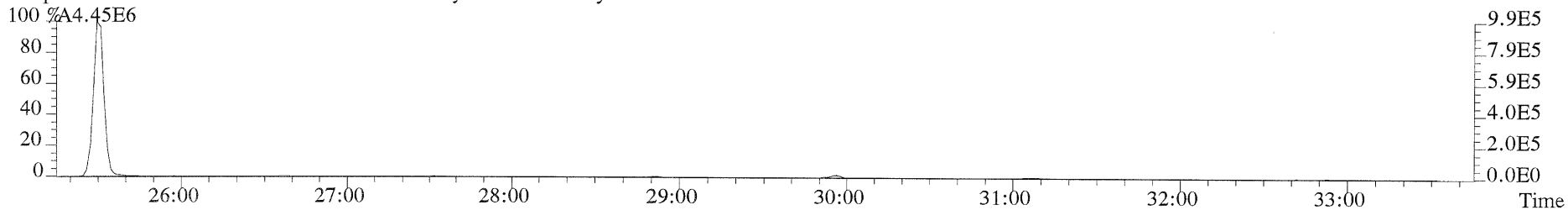
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



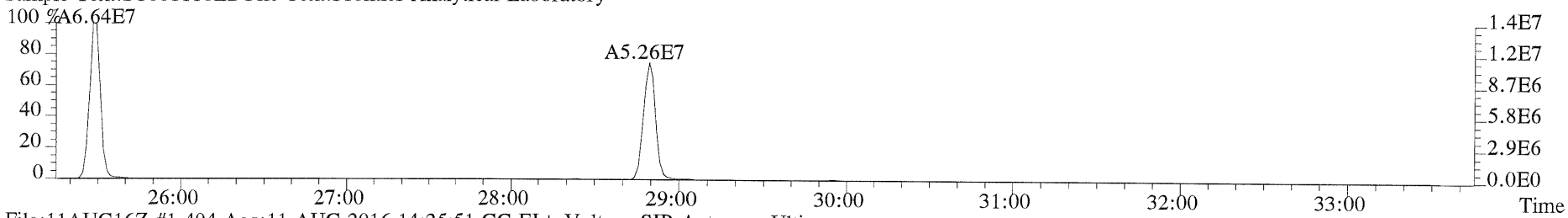
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



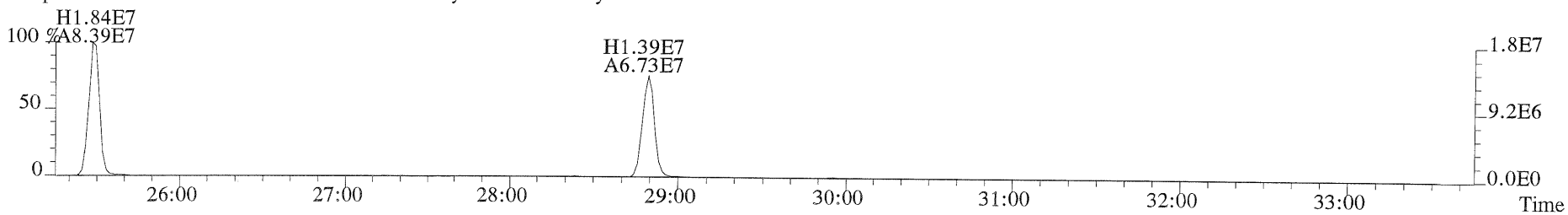
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



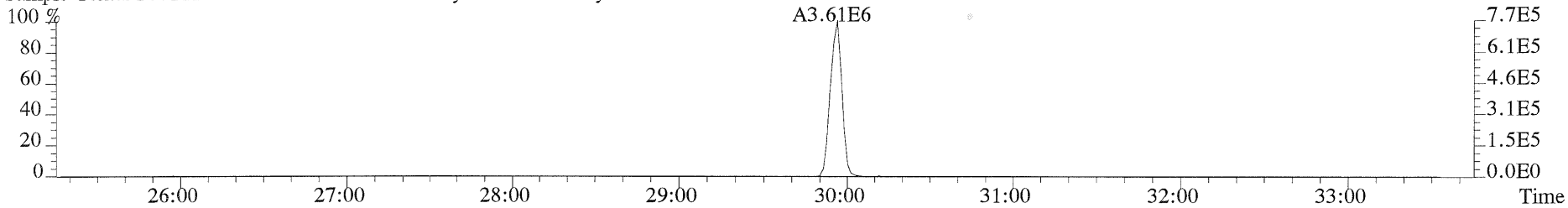
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



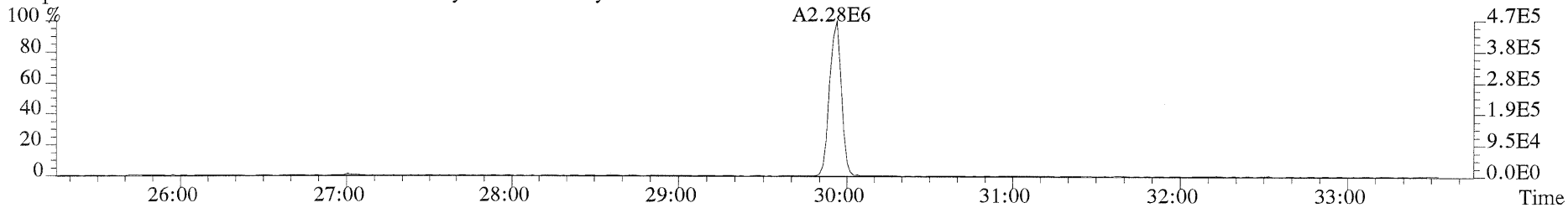
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



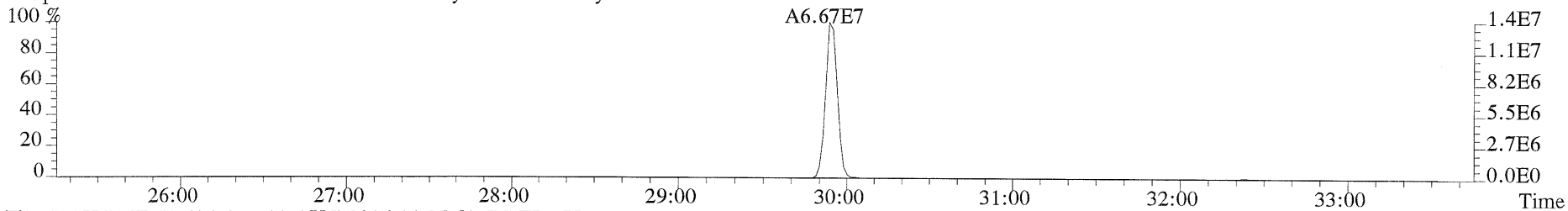
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



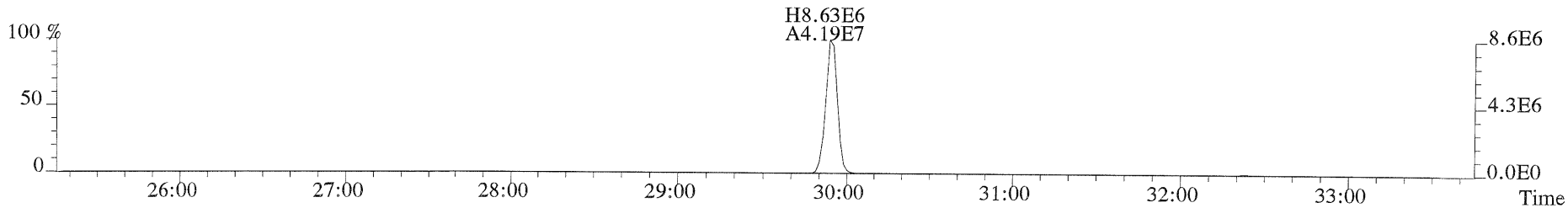
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



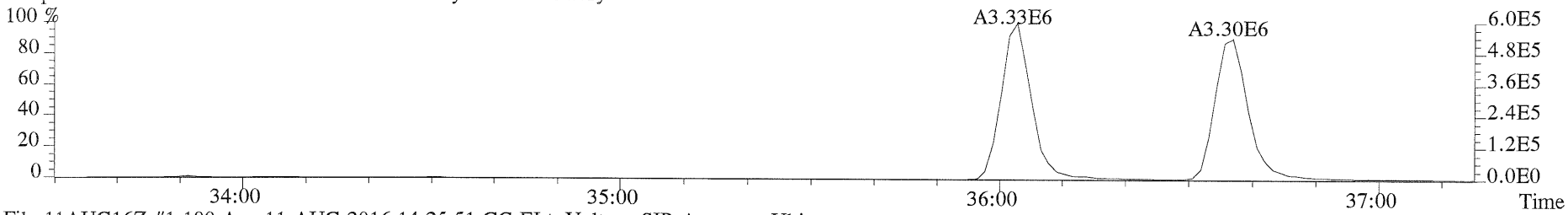
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



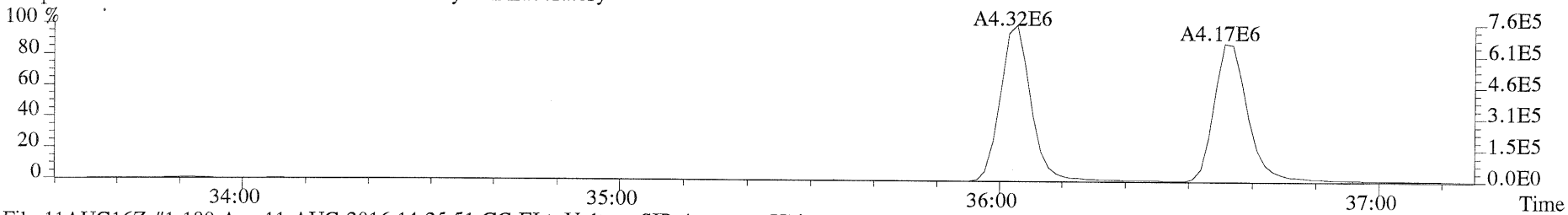
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



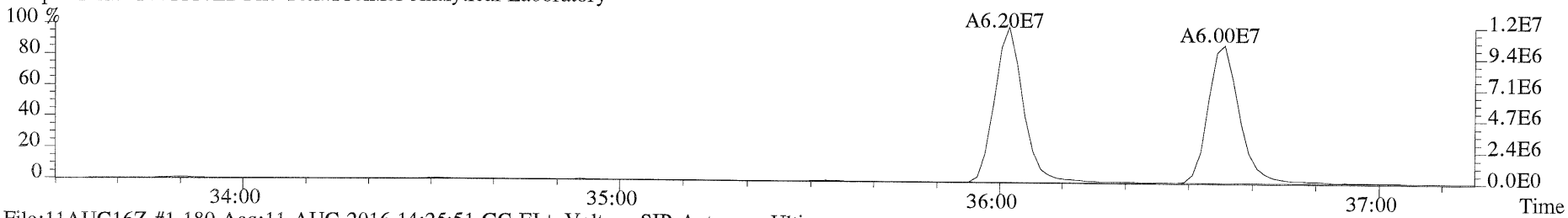
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



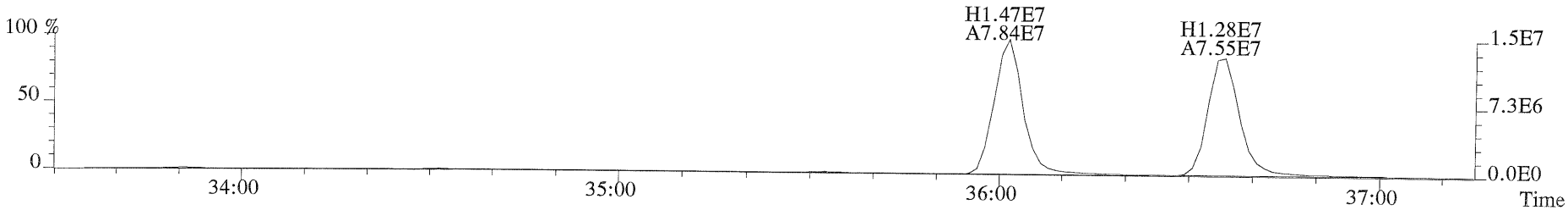
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



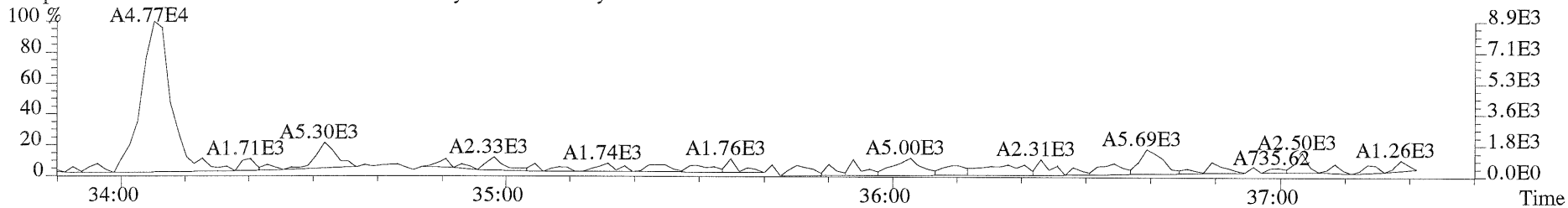
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



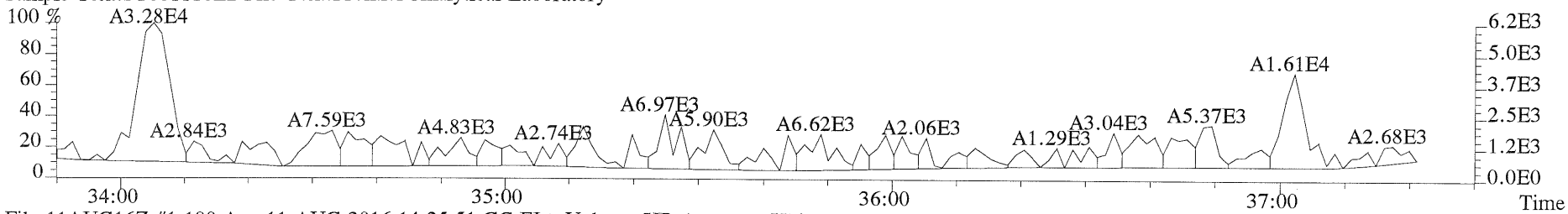
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



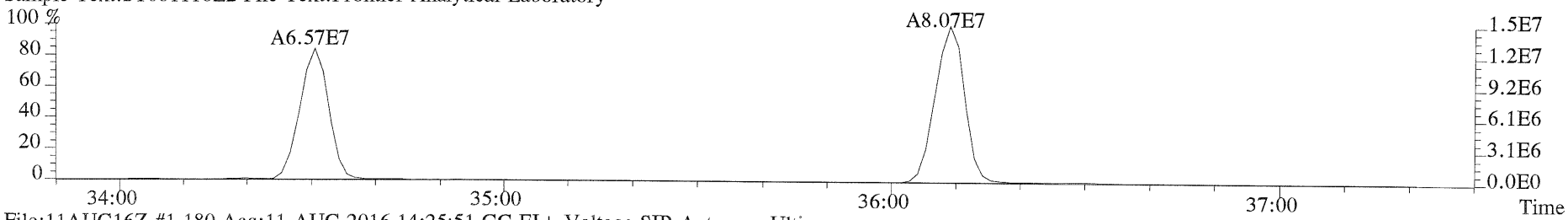
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



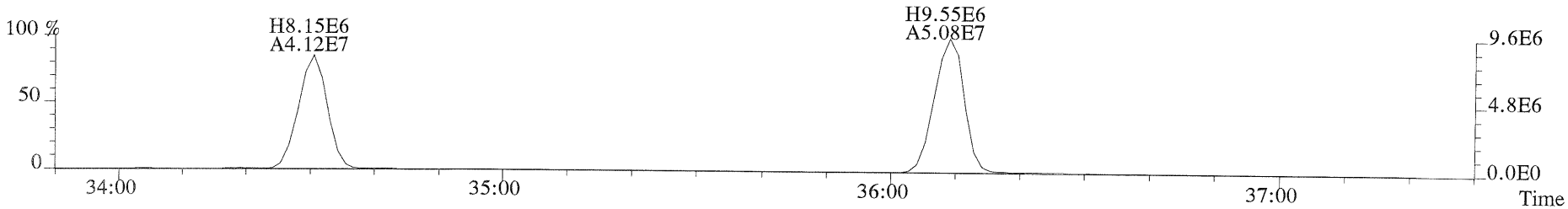
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



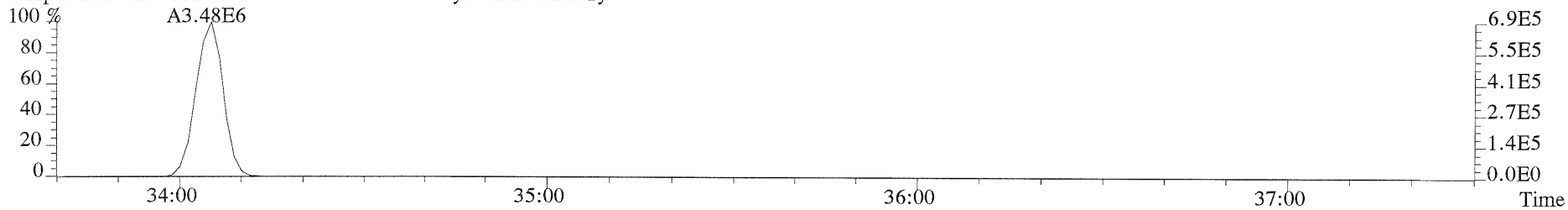
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



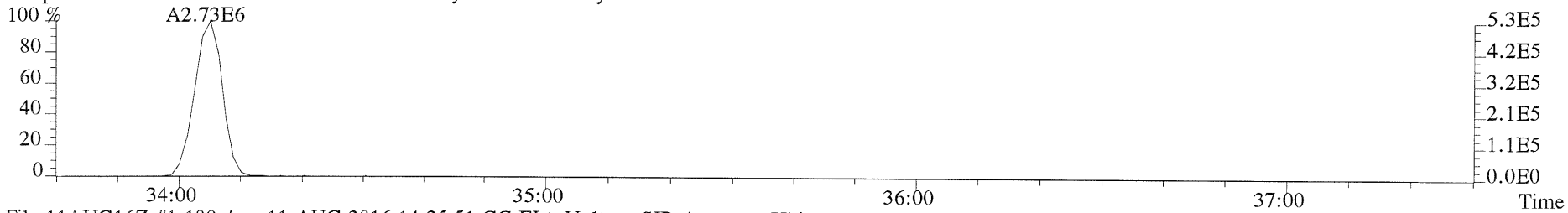
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



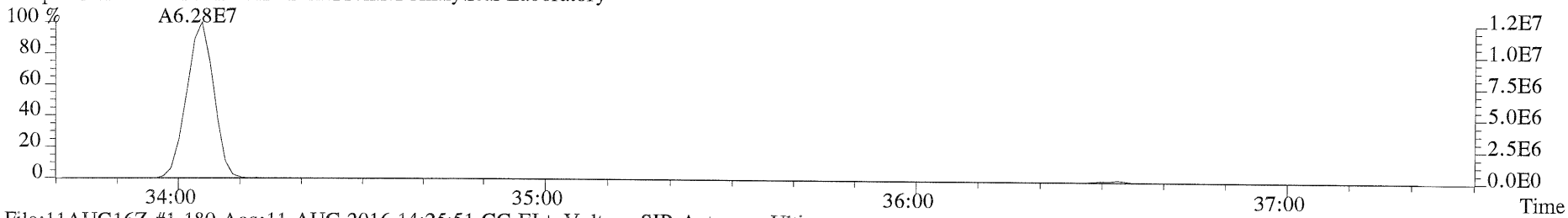
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



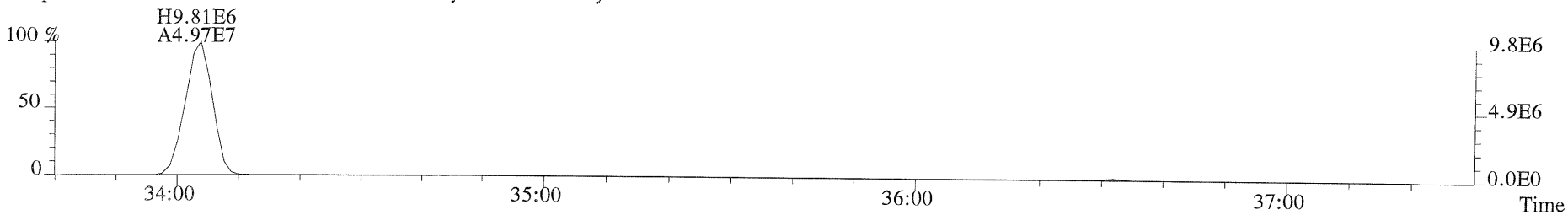
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



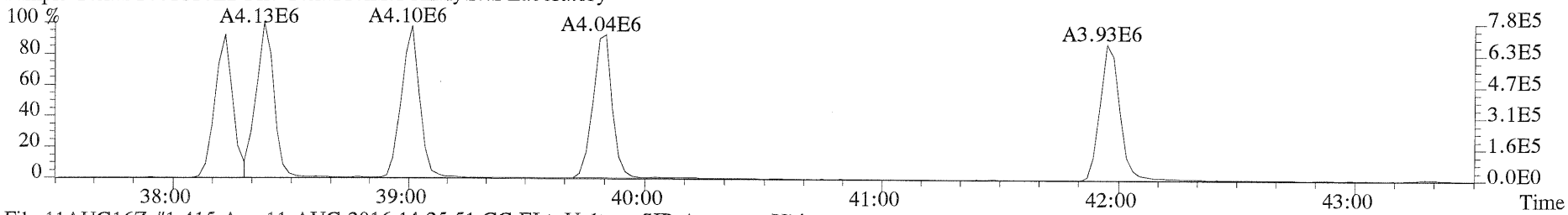
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



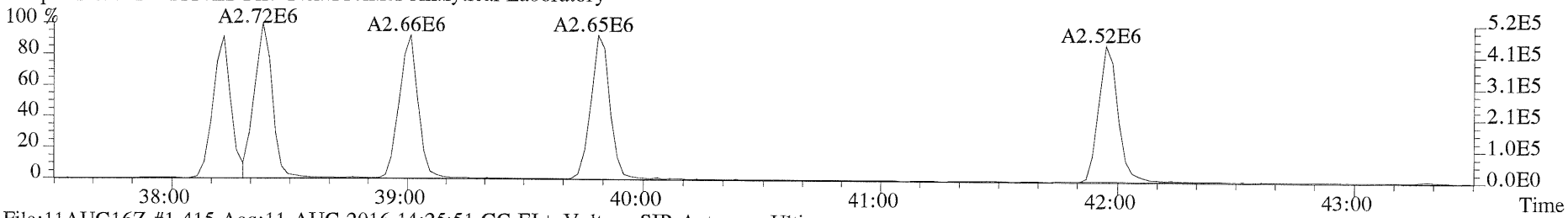
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



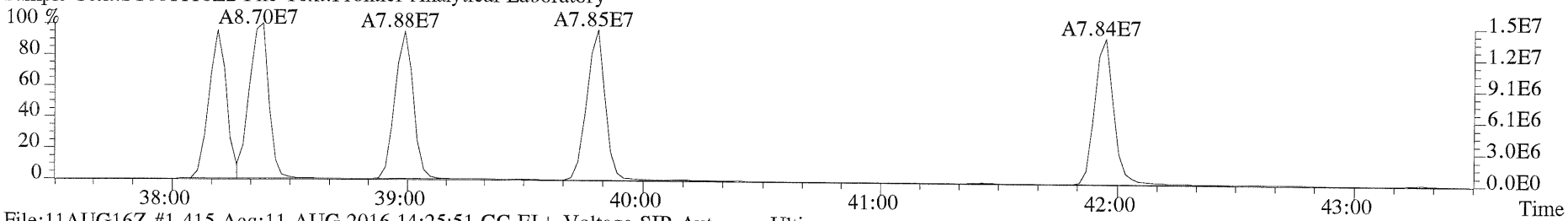
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



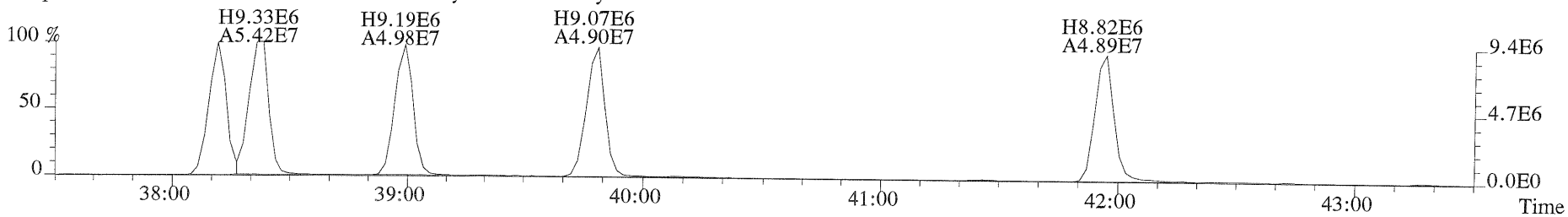
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



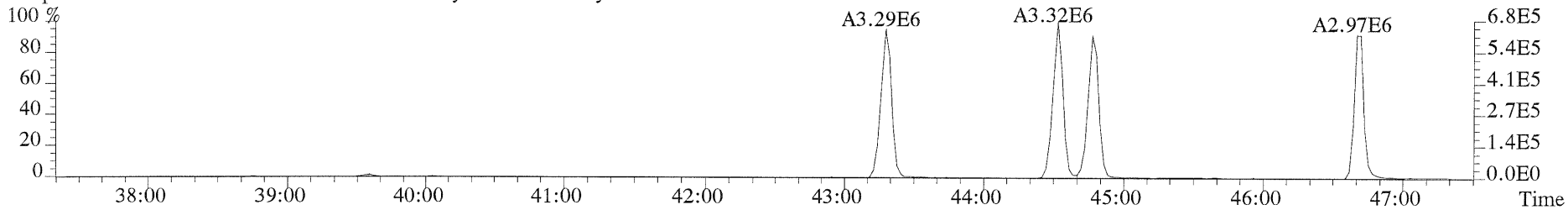
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



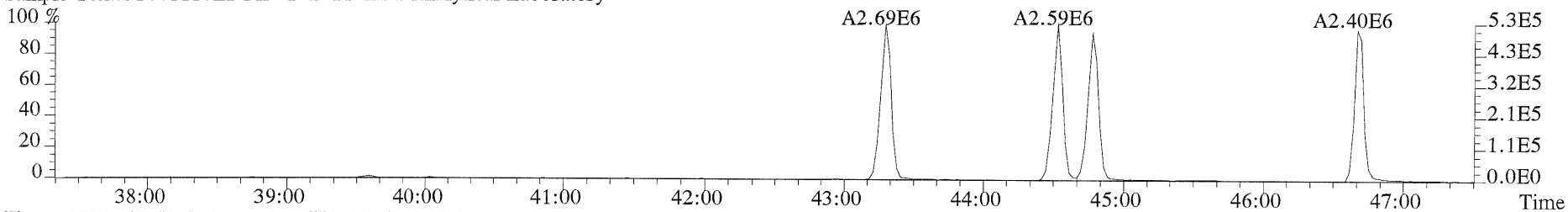
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



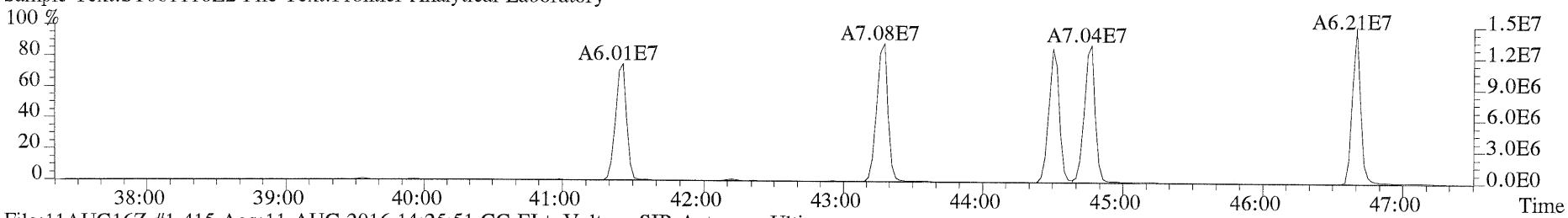
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 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:ST081116Z2 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 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:ST081116Z2 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
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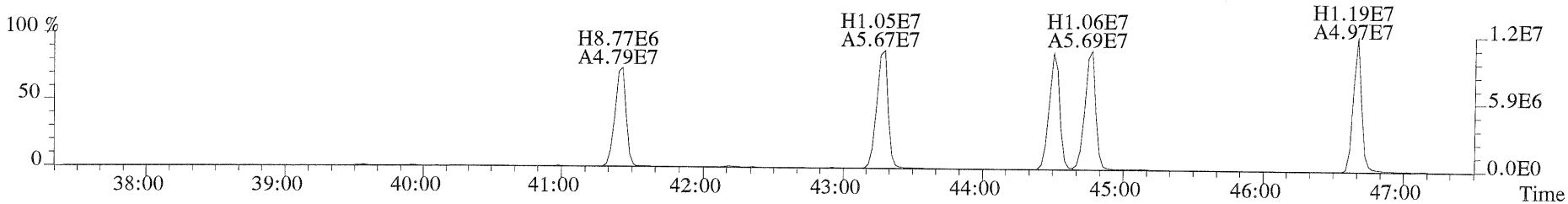
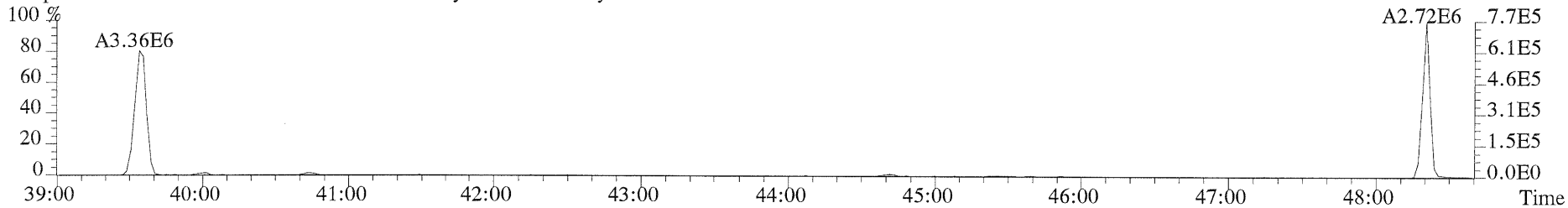
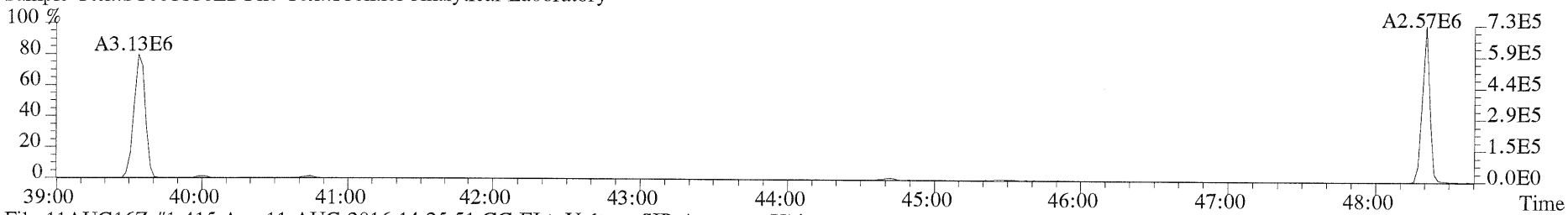
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



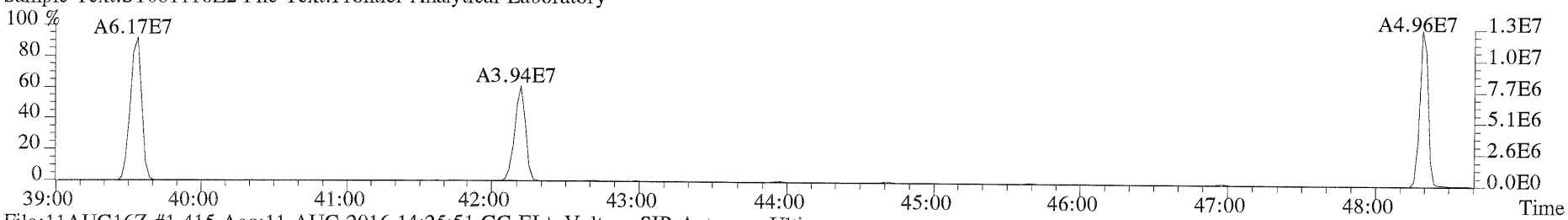
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



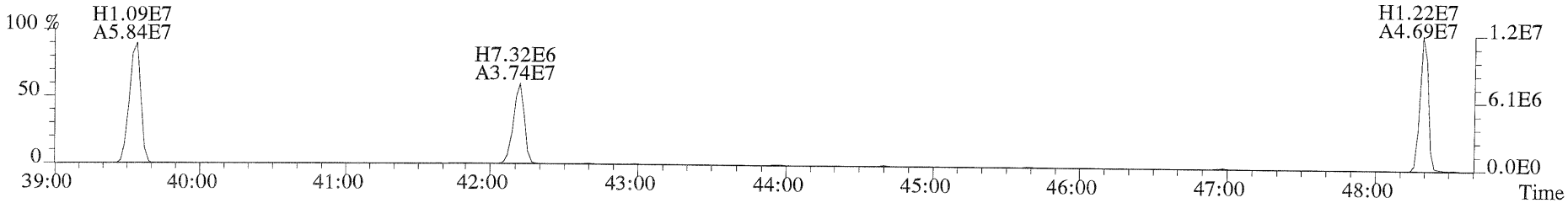
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



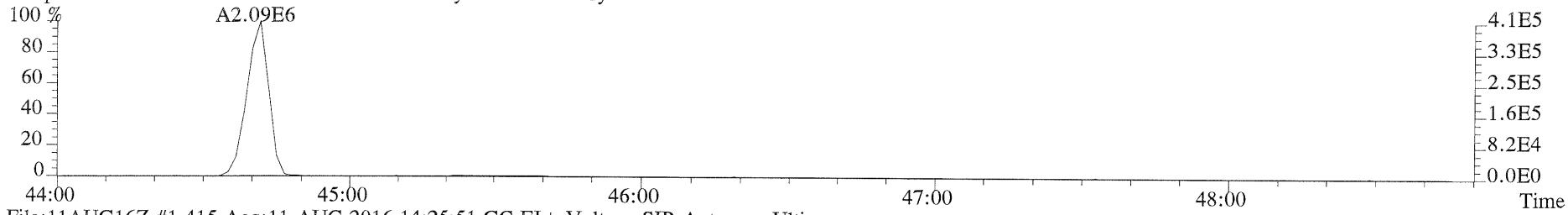
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



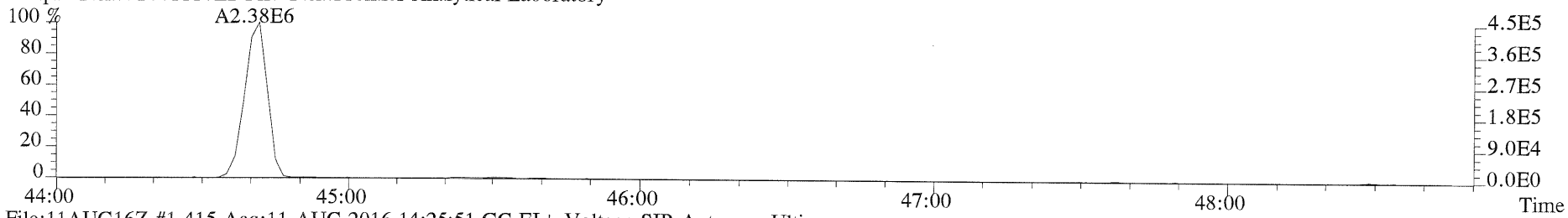
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



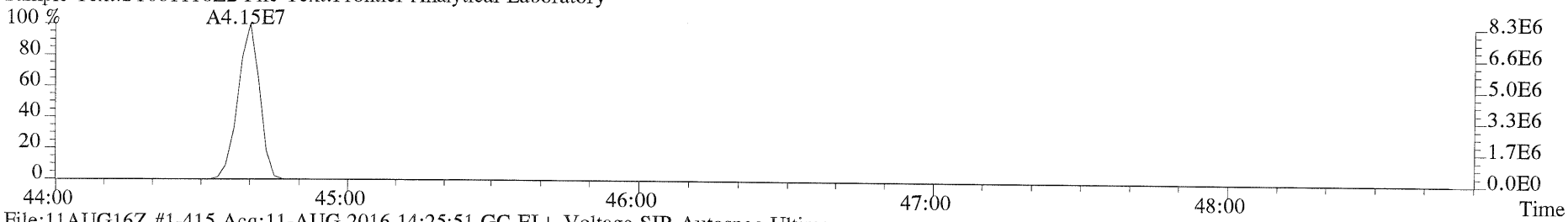
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



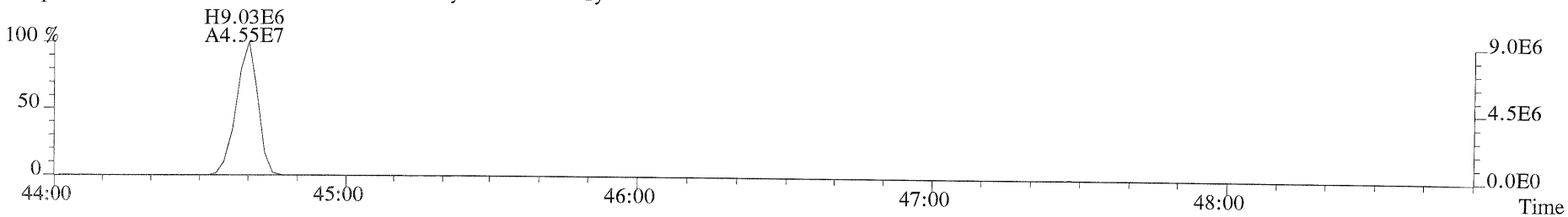
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



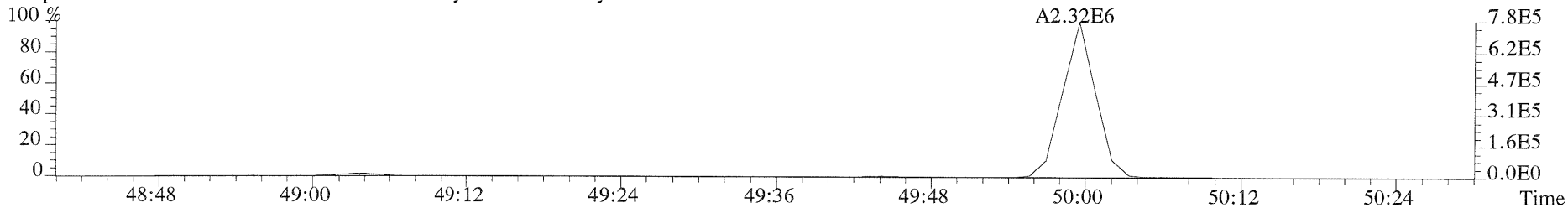
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



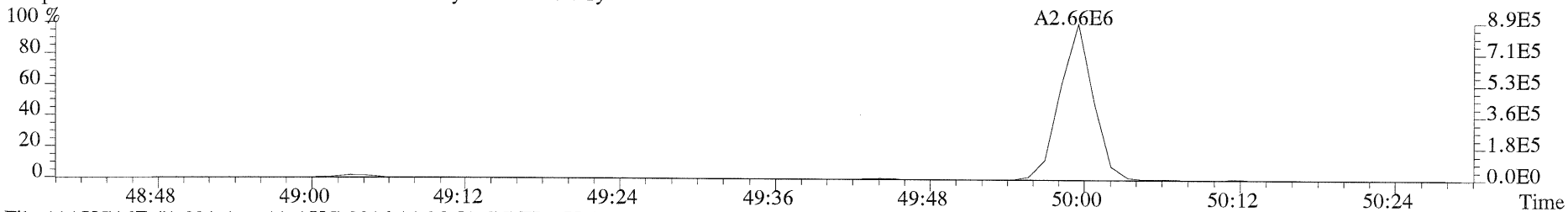
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



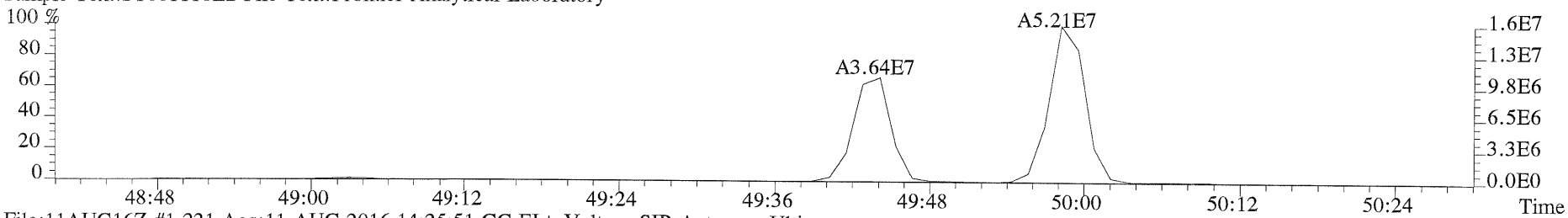
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



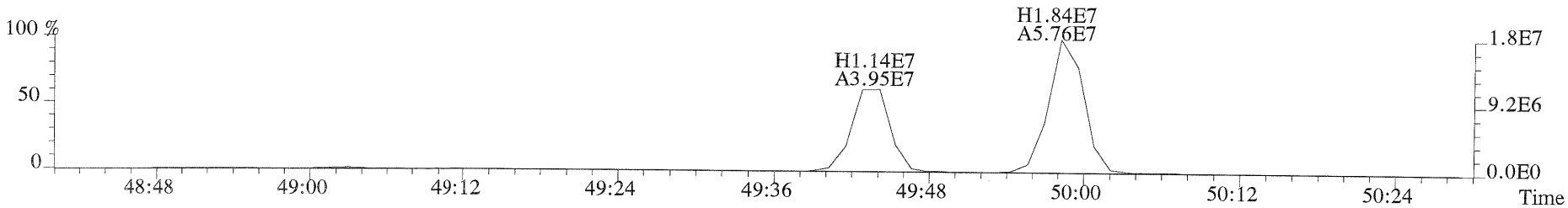
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



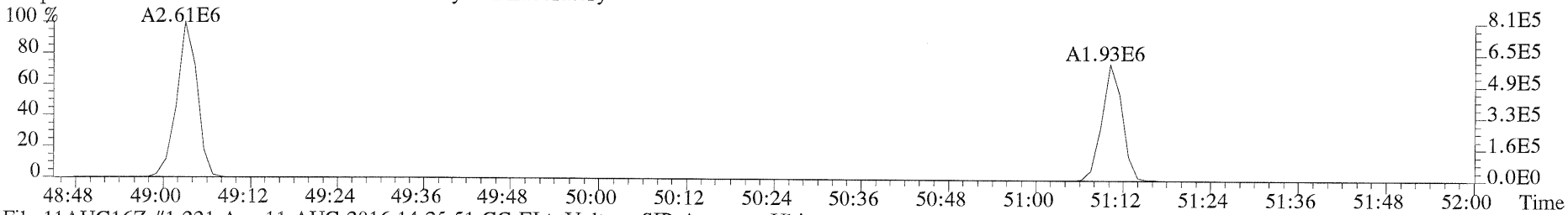
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



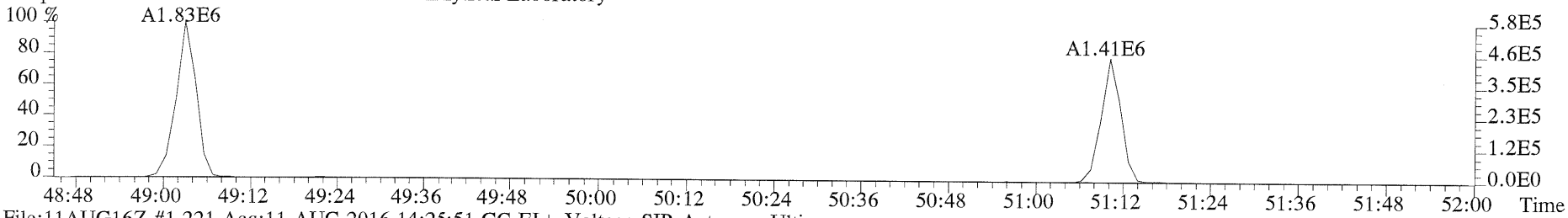
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



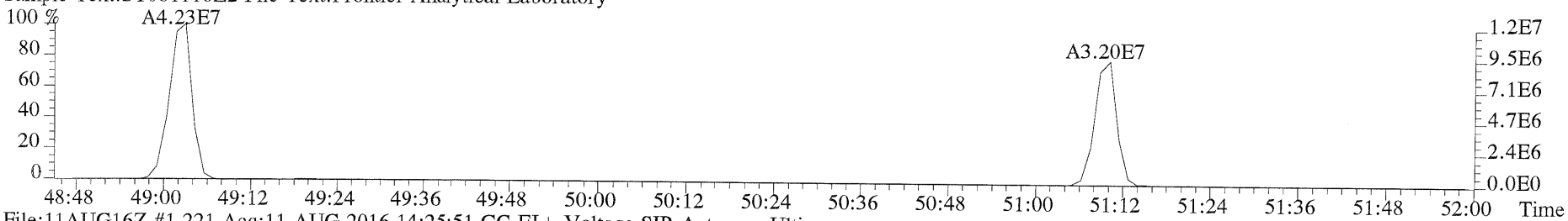
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



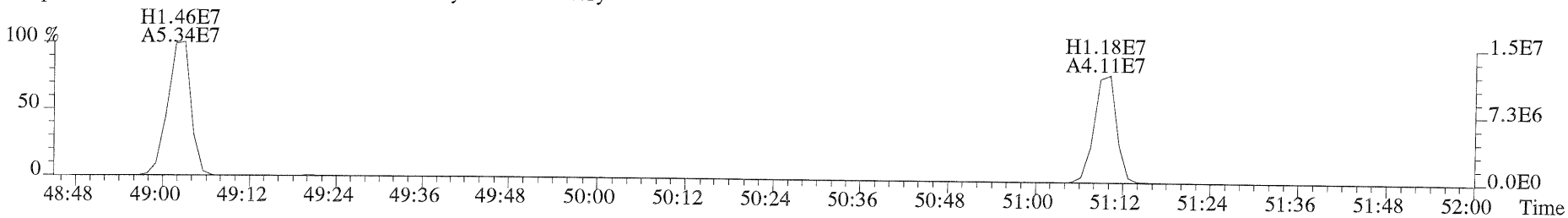
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



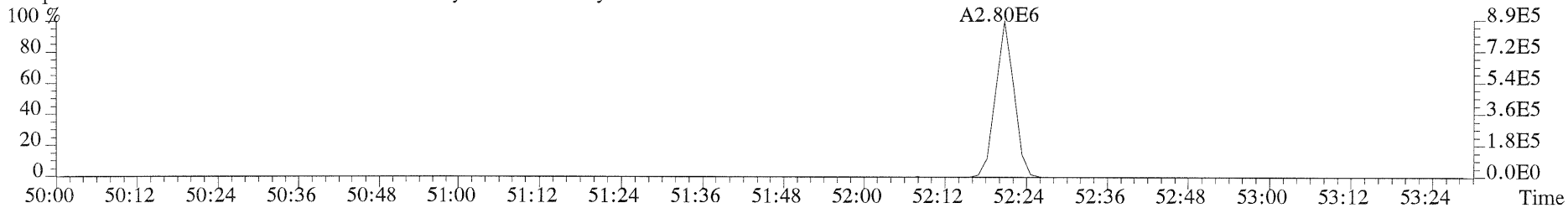
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



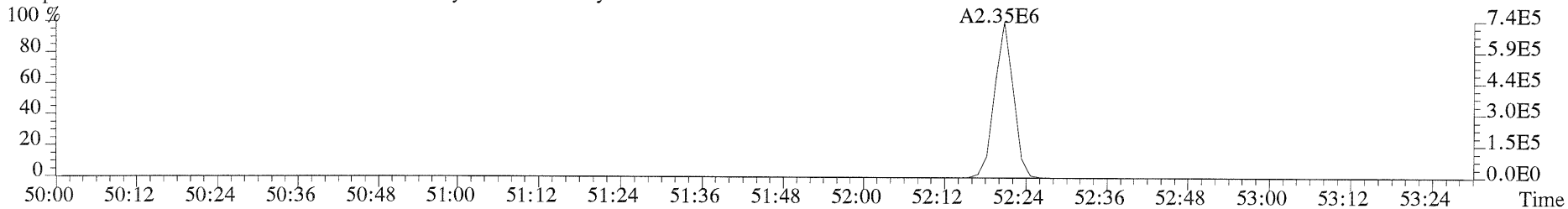
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



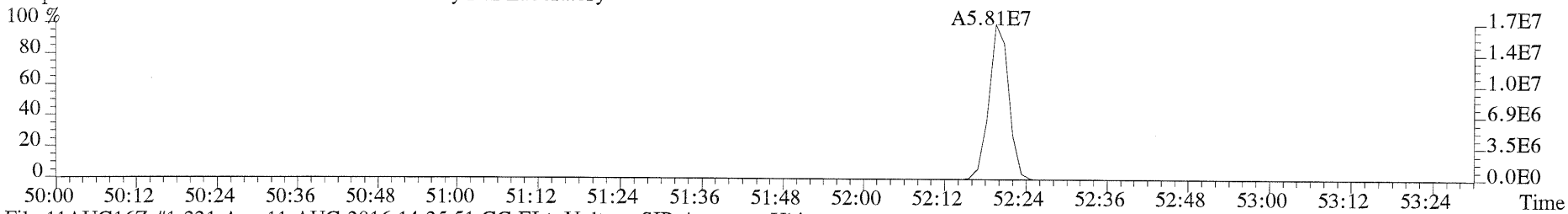
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



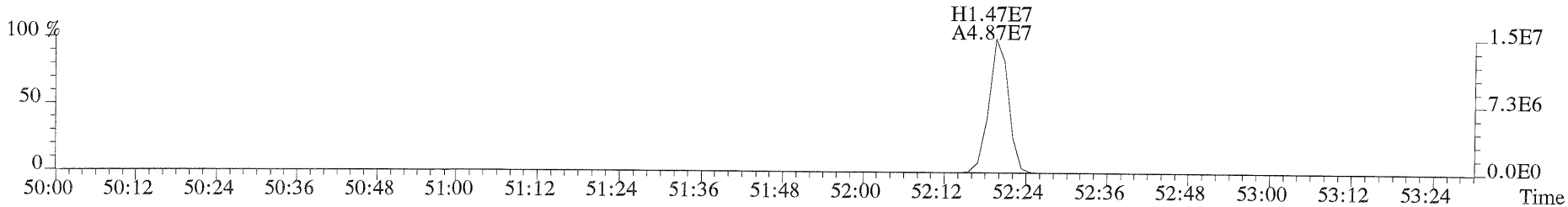
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



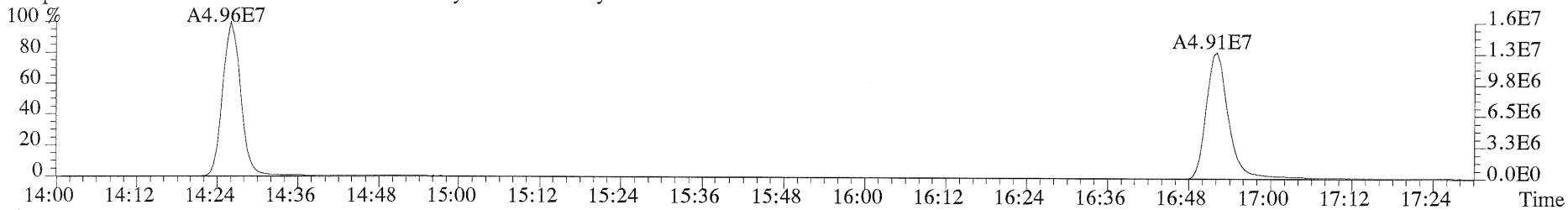
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



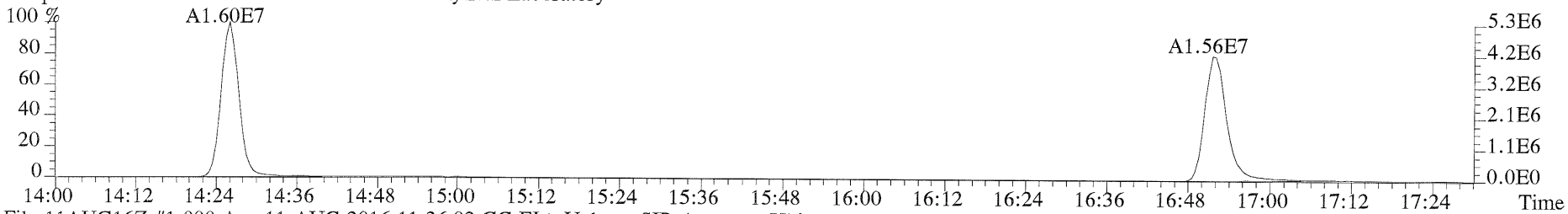
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



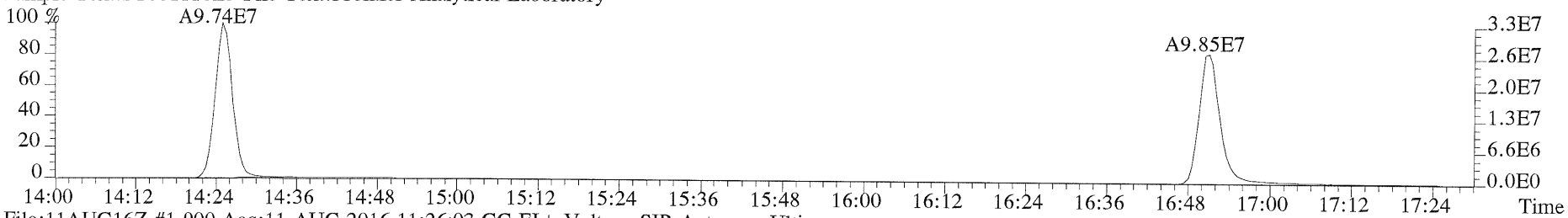
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



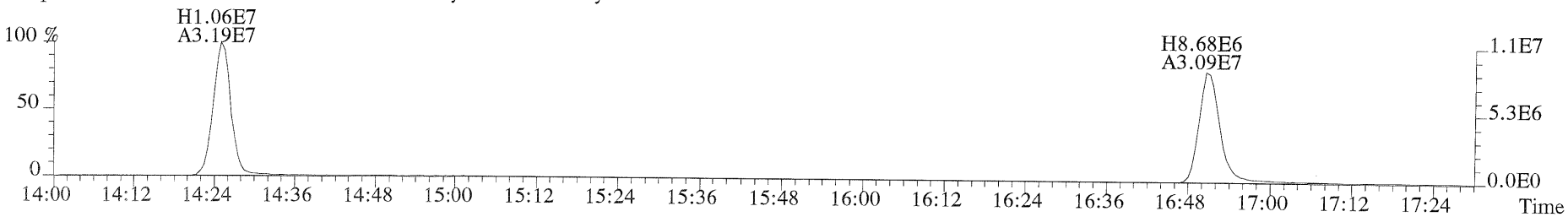
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



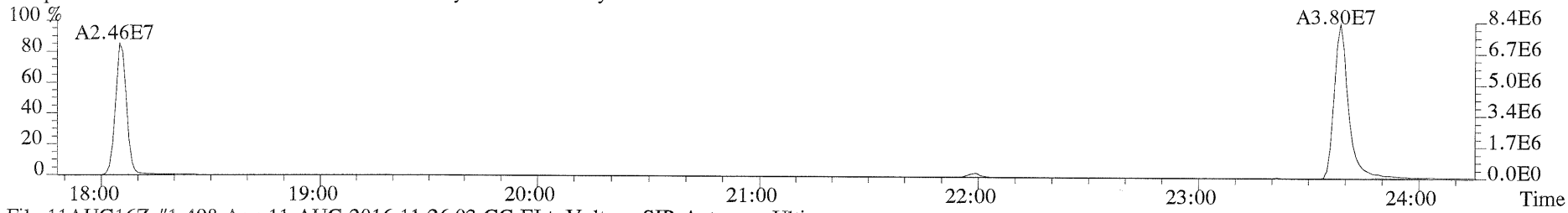
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



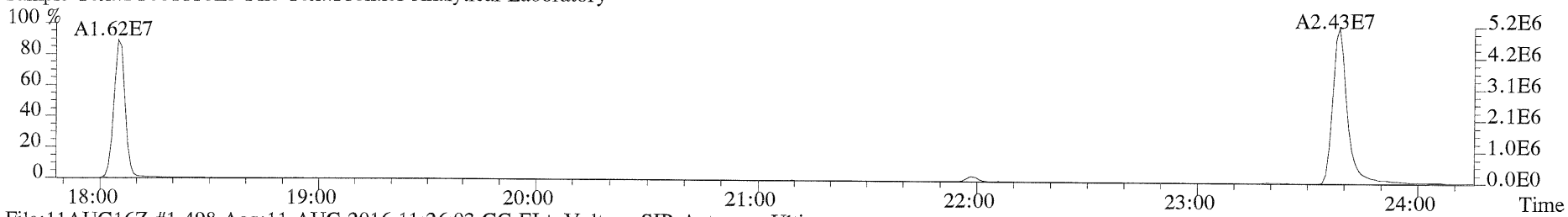
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



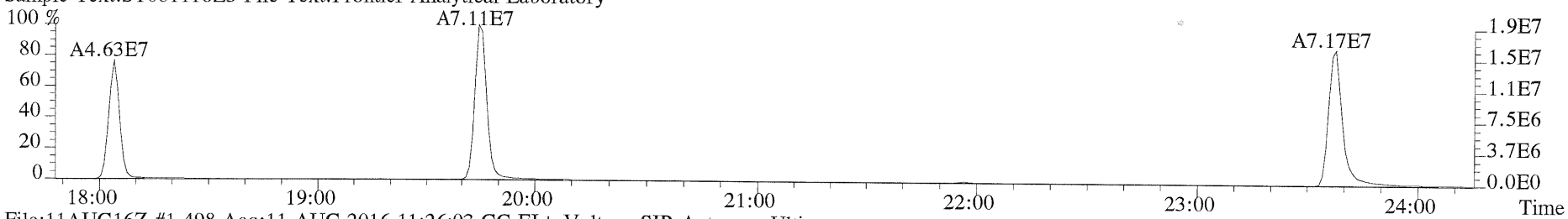
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



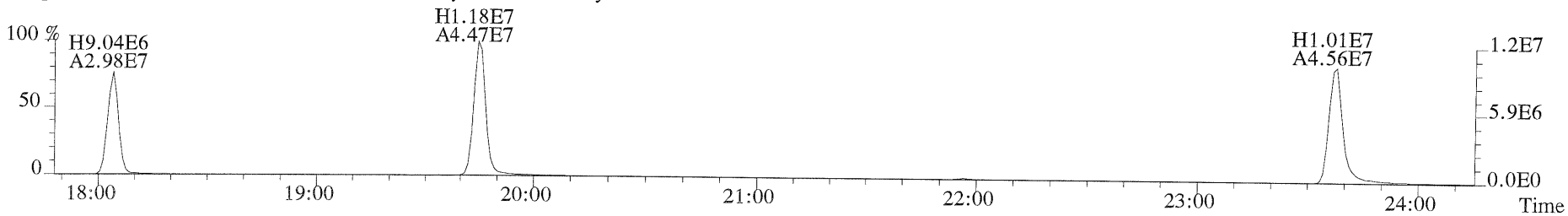
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



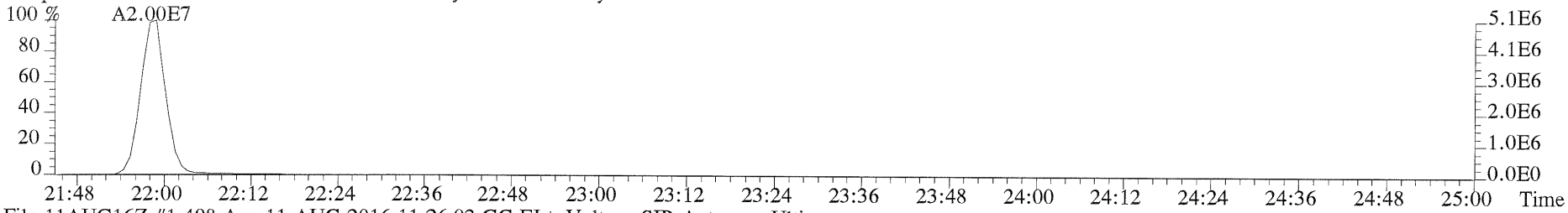
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



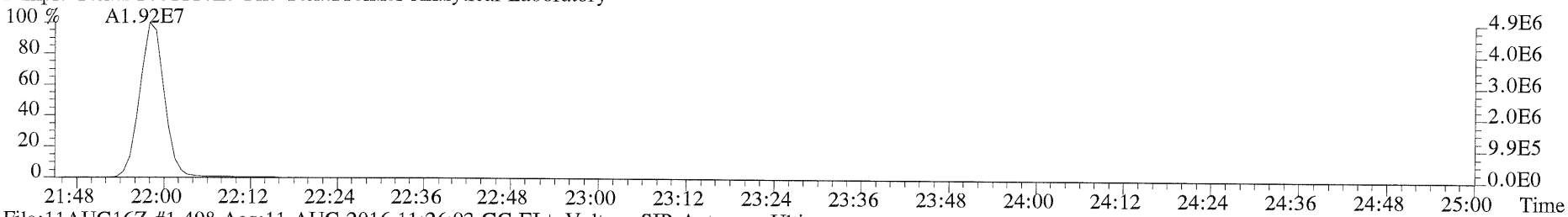
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



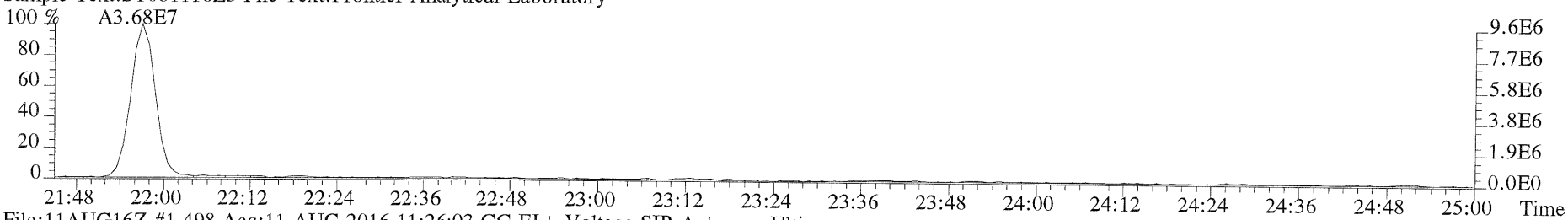
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



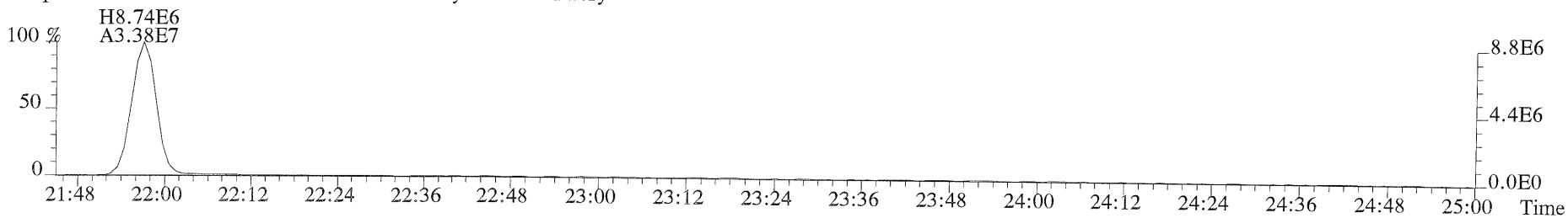
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



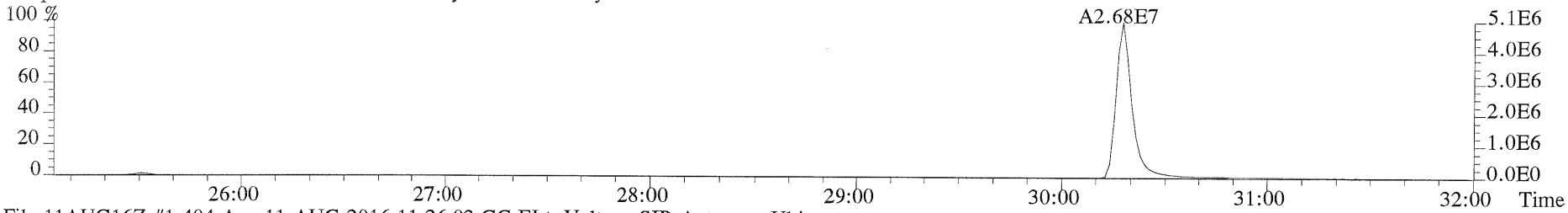
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



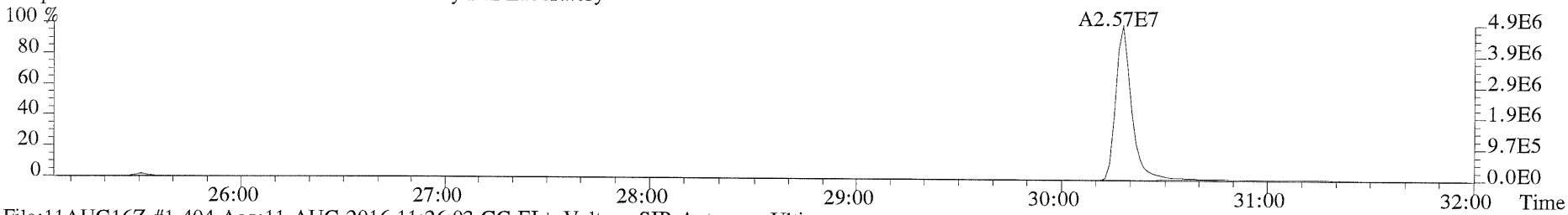
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



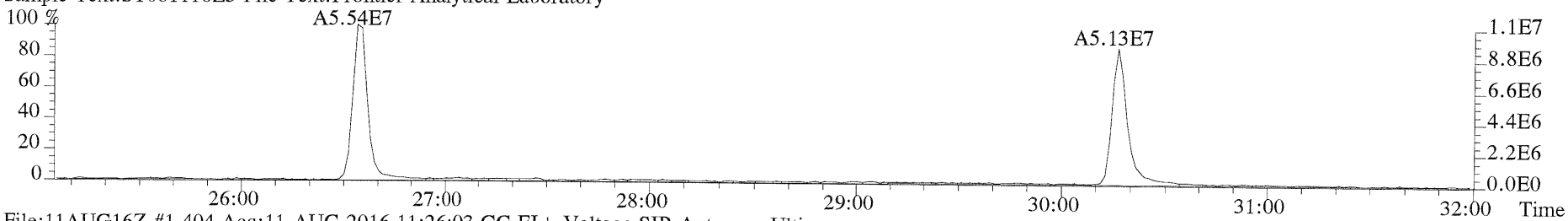
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



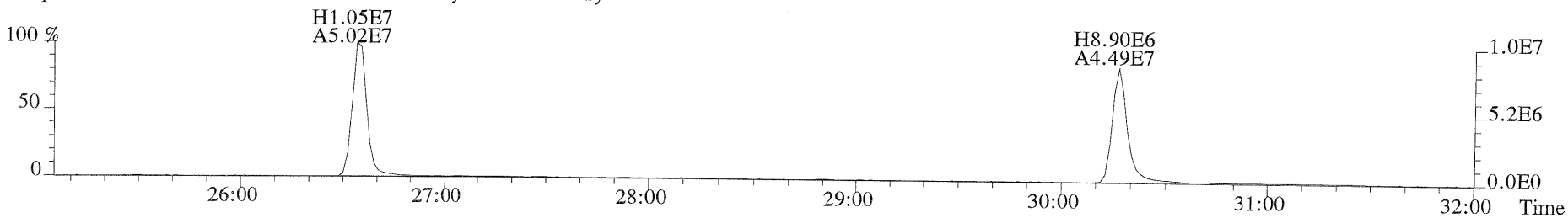
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



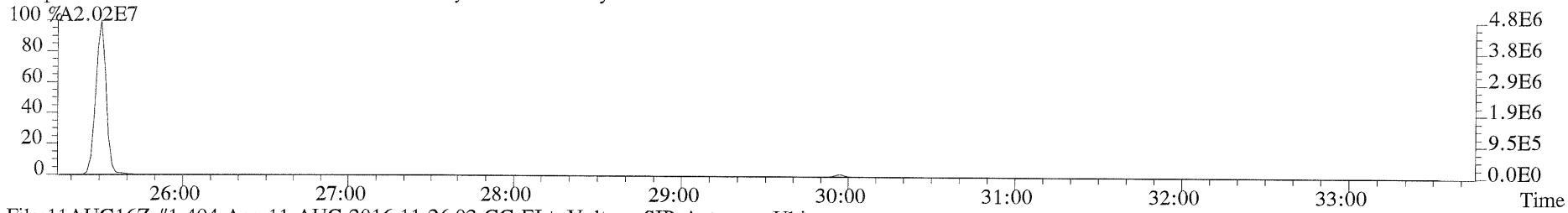
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



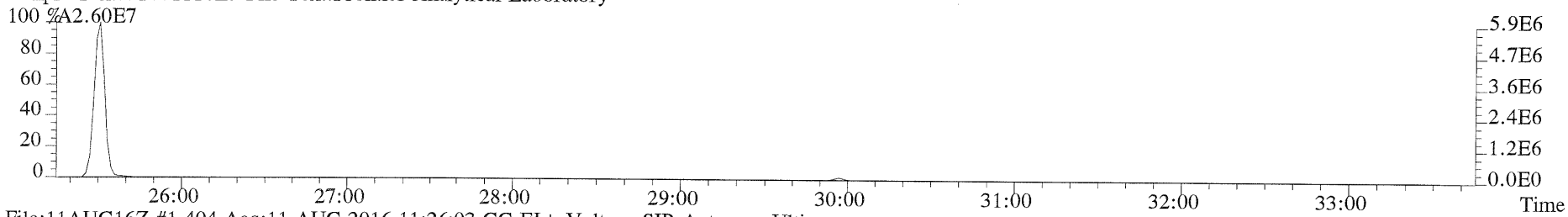
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



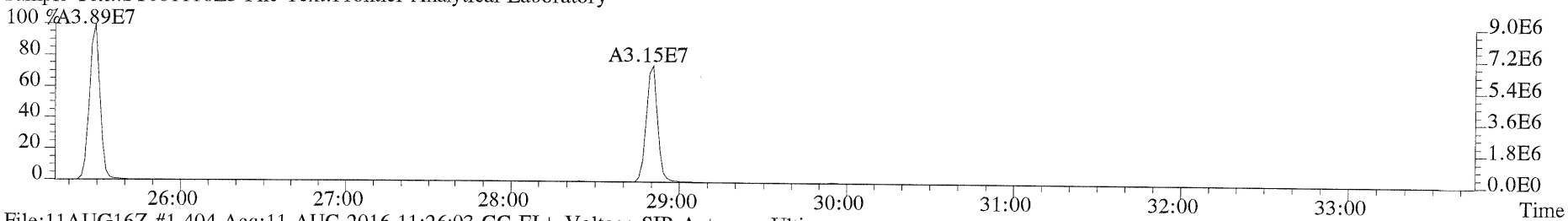
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



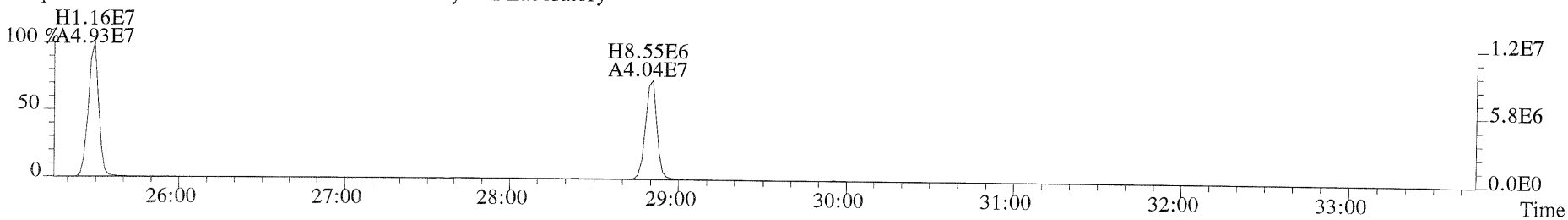
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



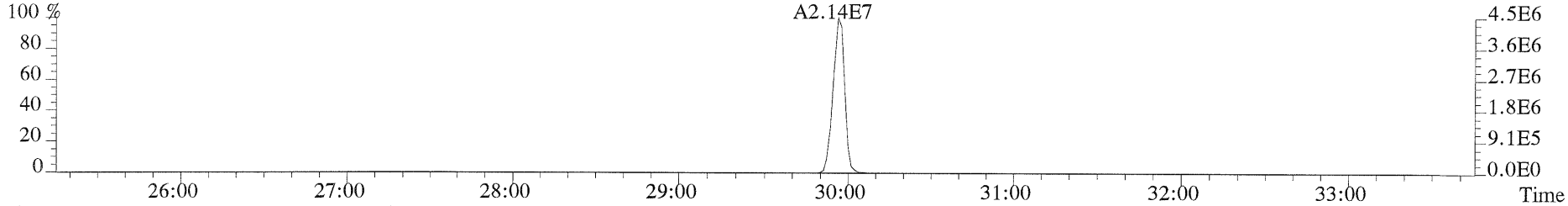
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



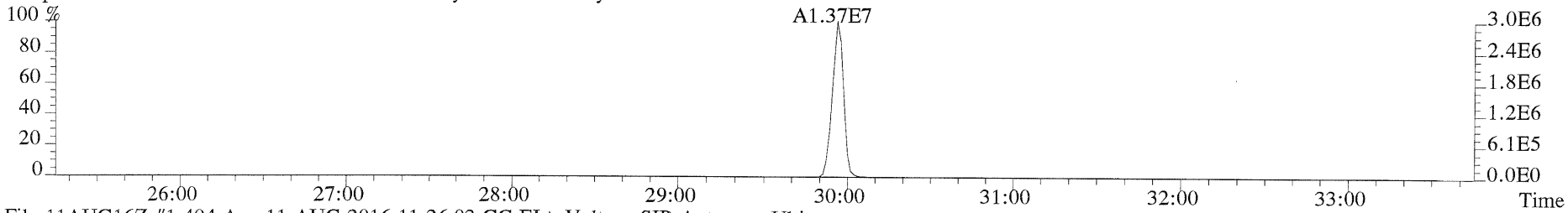
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



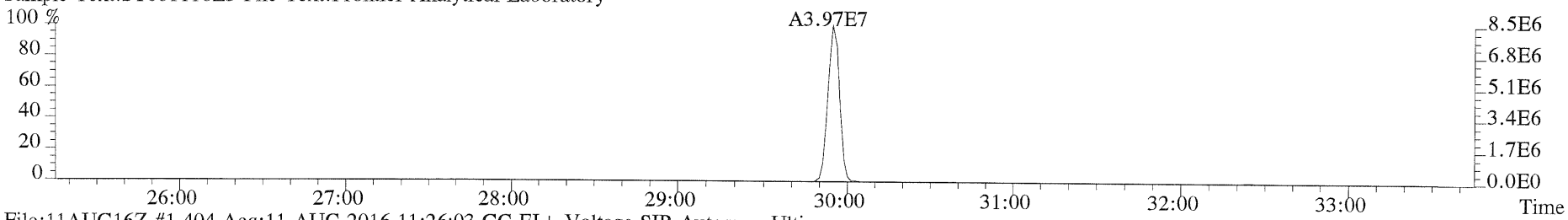
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



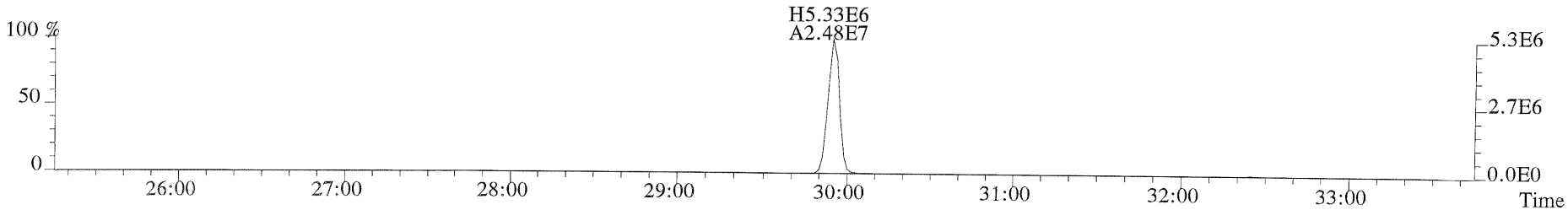
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



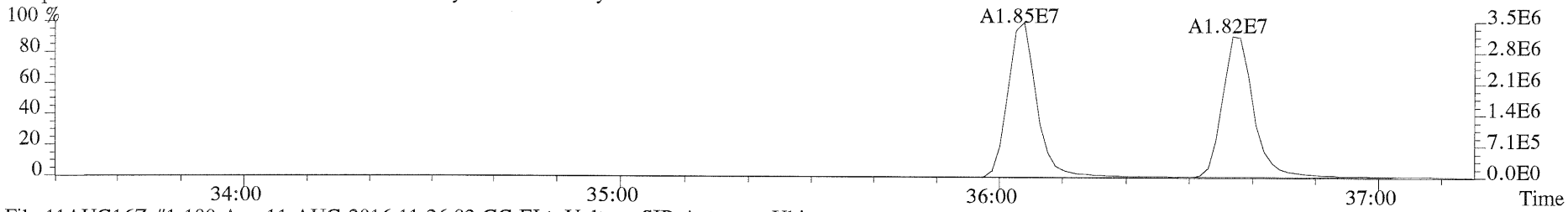
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



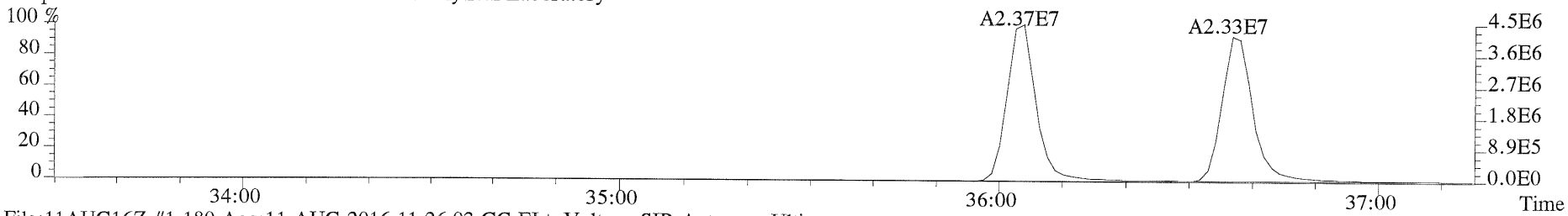
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



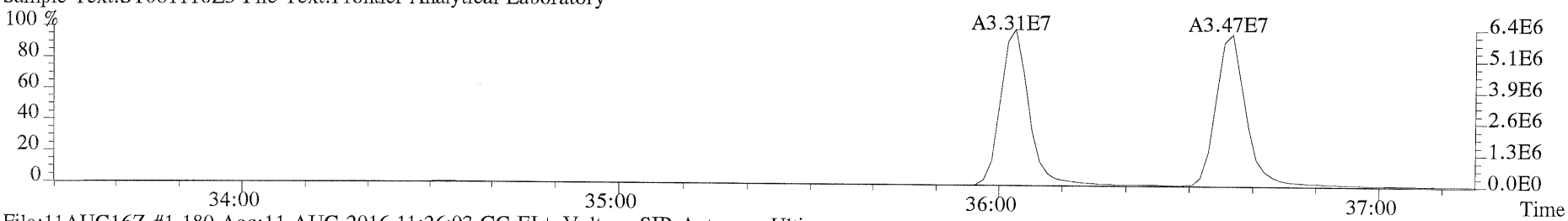
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



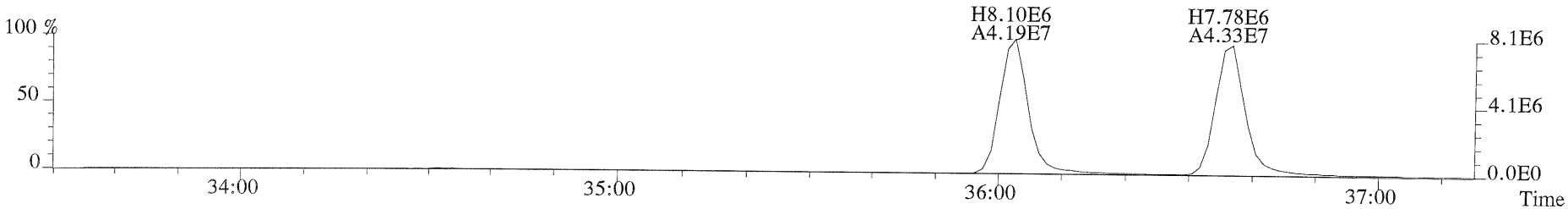
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



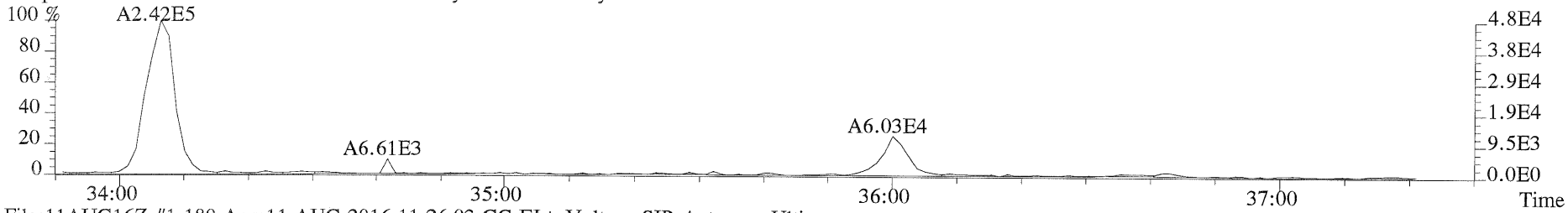
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



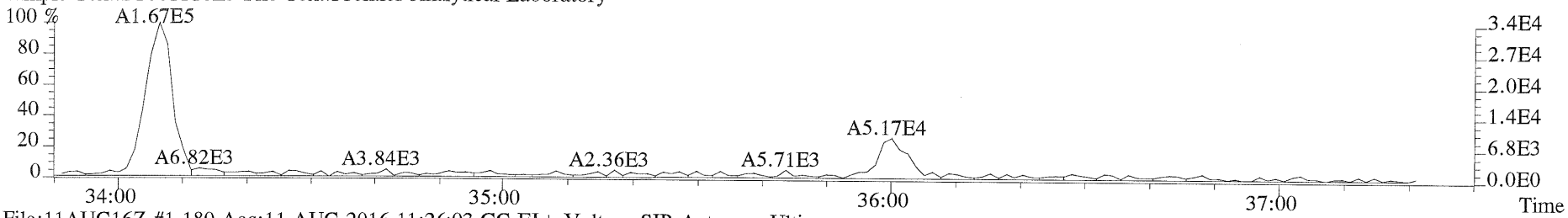
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



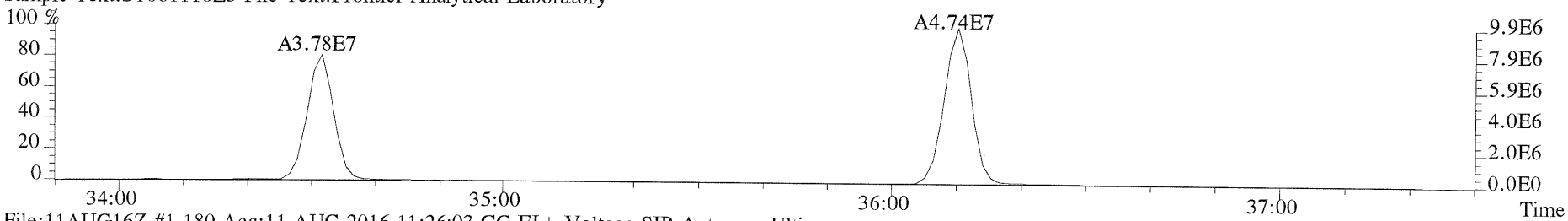
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



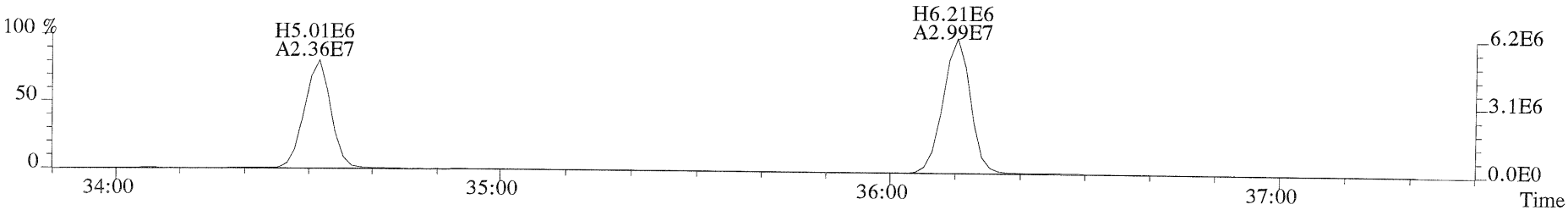
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



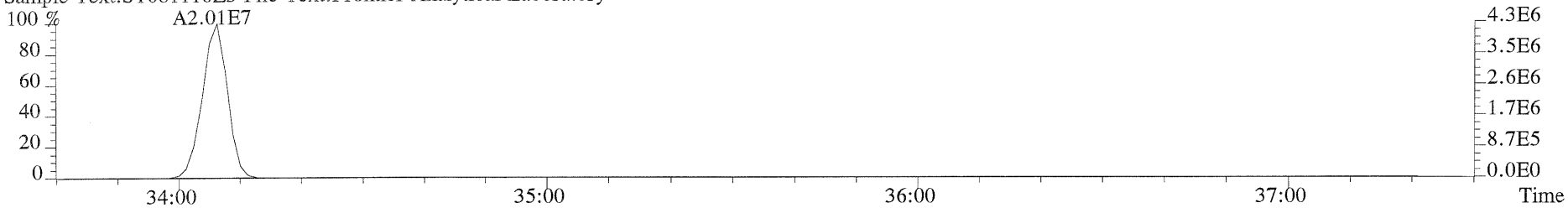
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



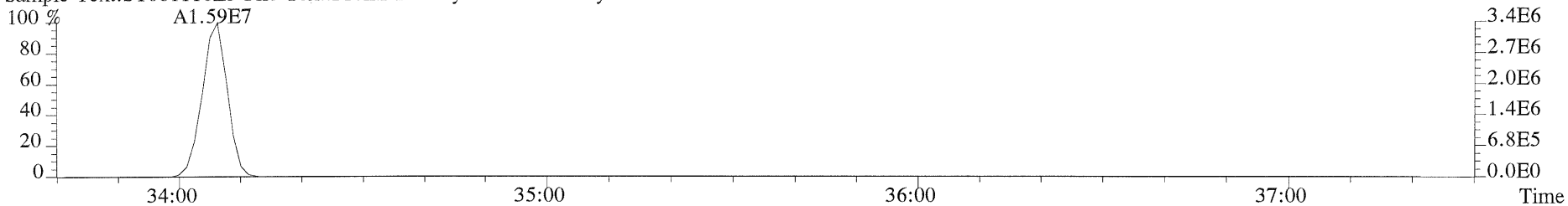
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



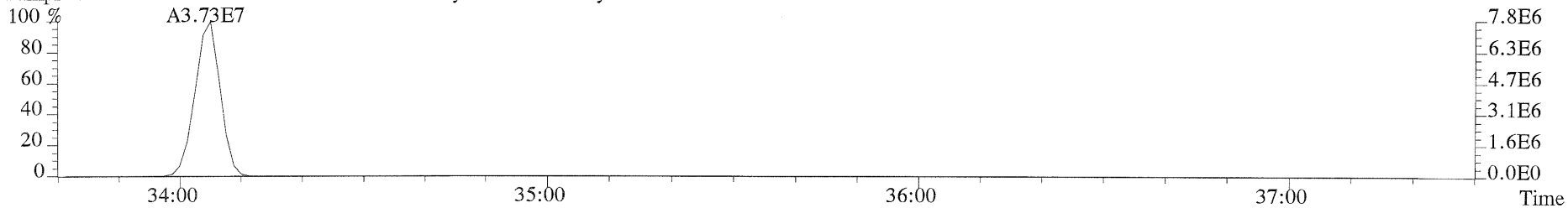
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



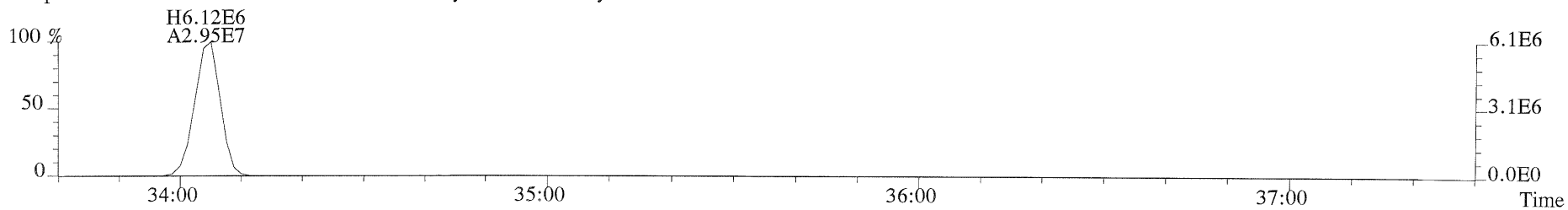
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



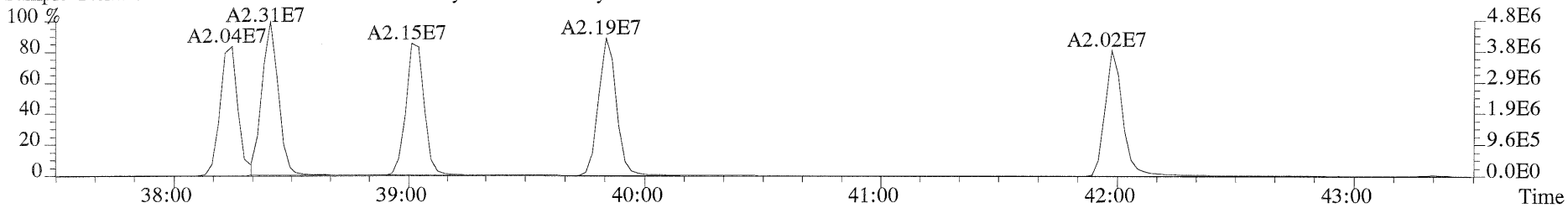
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



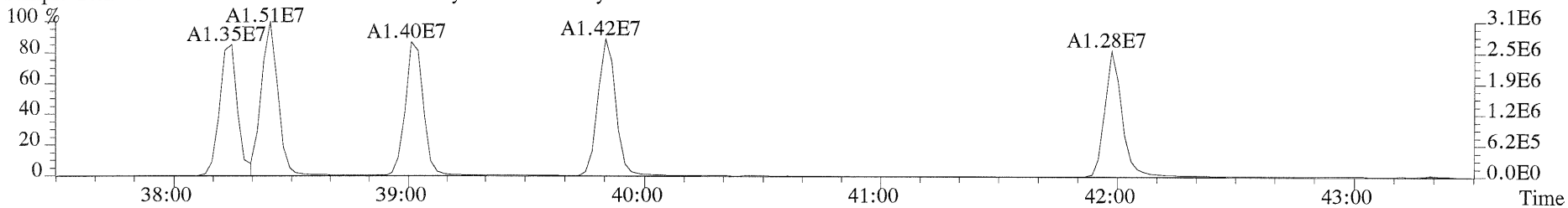
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



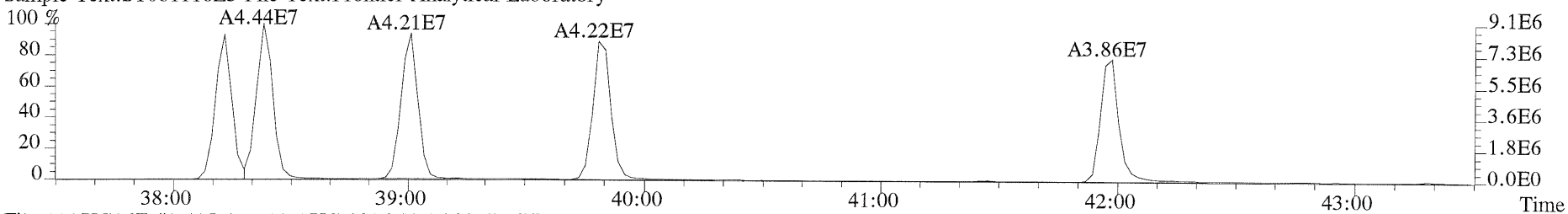
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



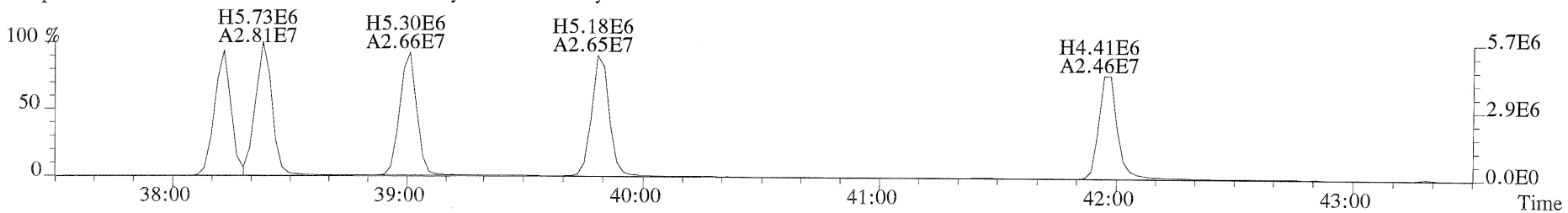
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



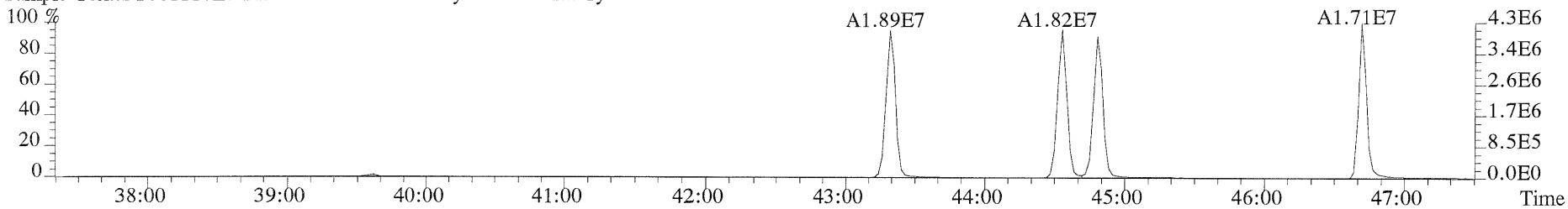
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



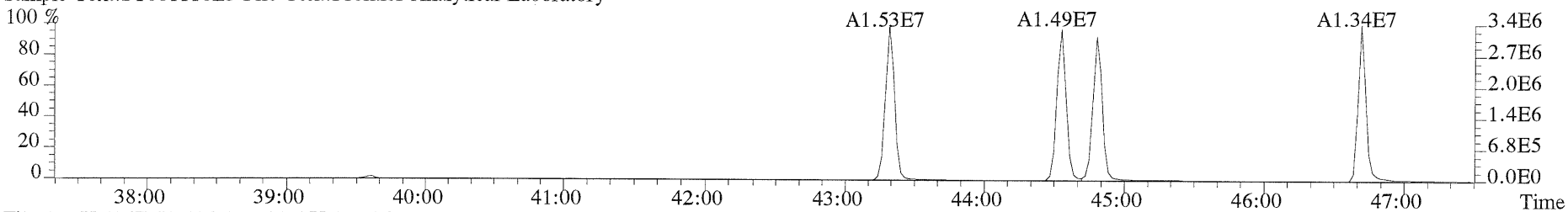
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



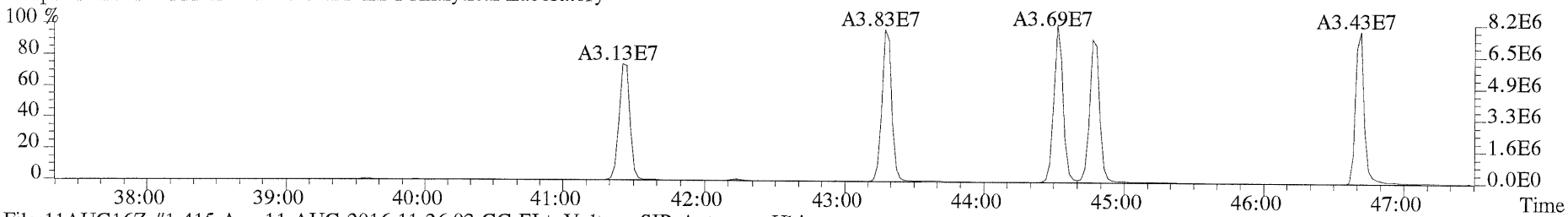
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



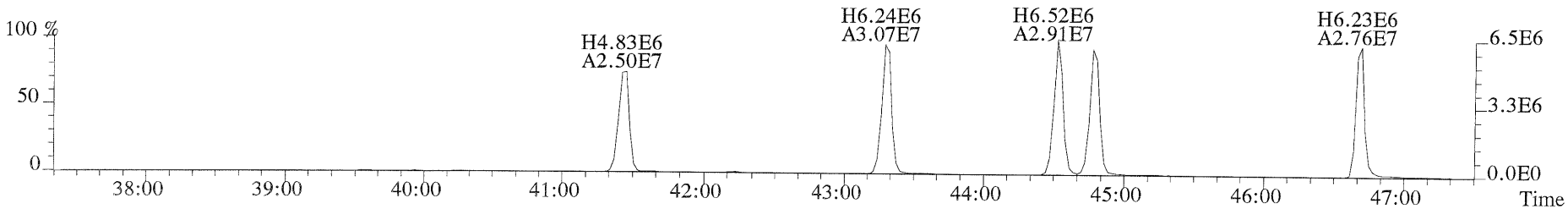
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



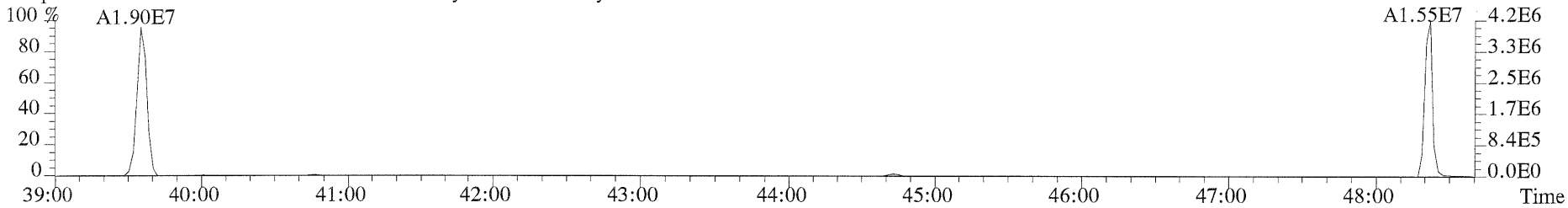
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



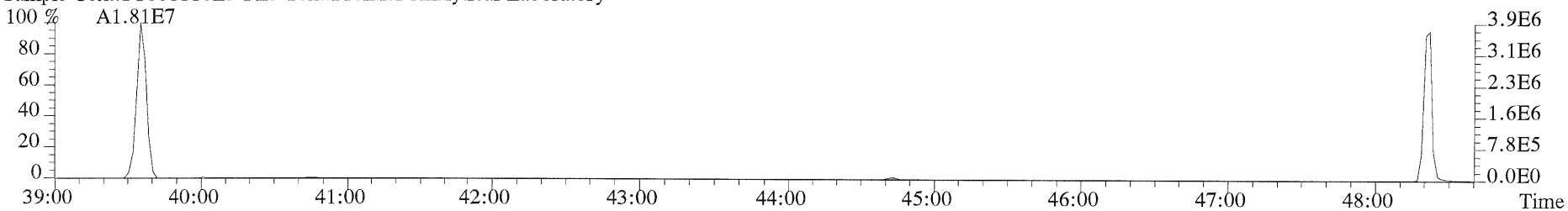
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



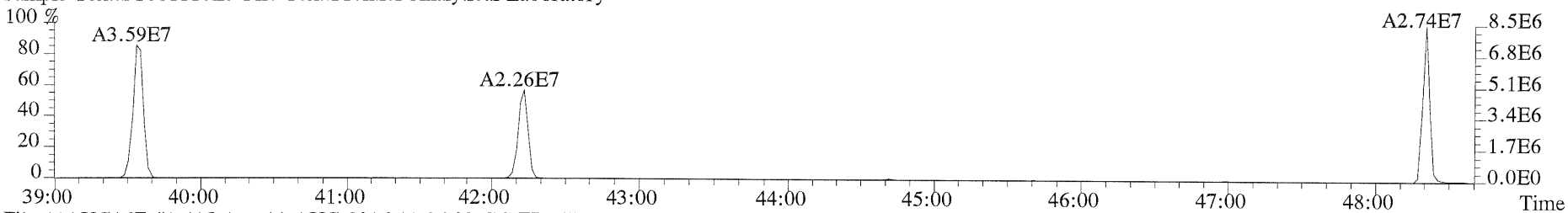
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



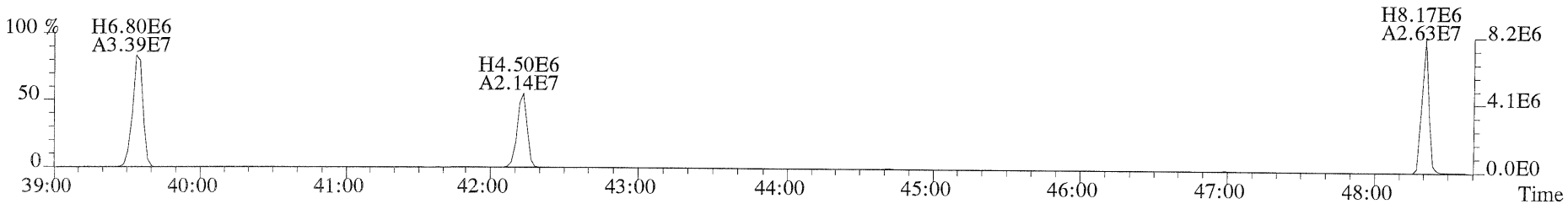
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



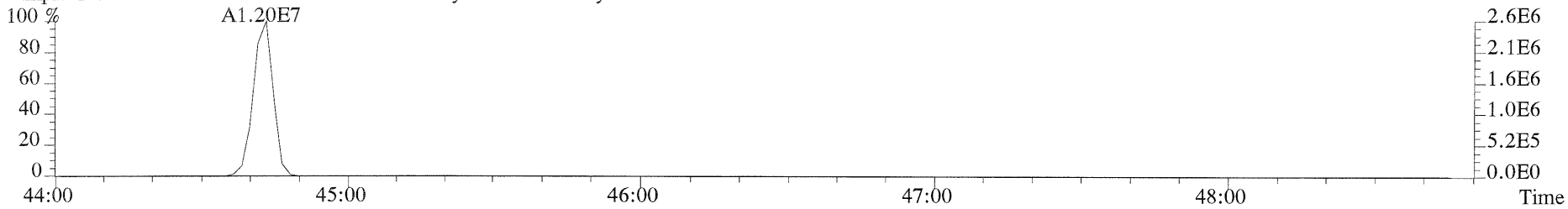
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



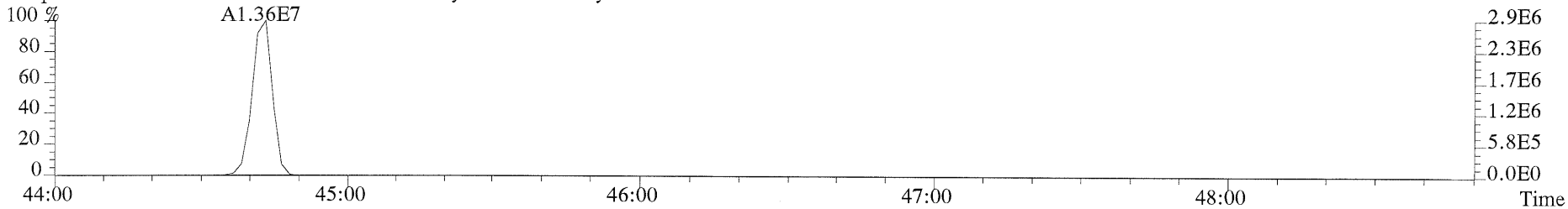
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



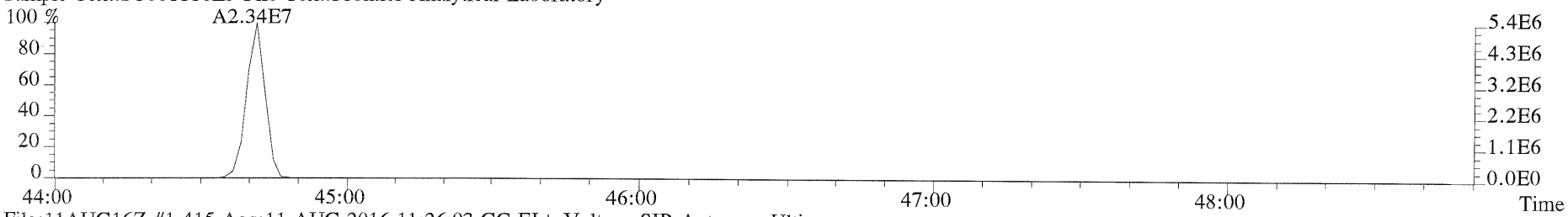
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



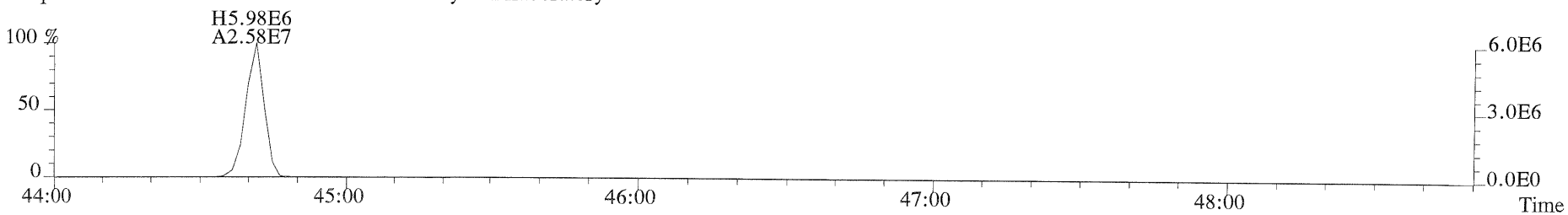
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



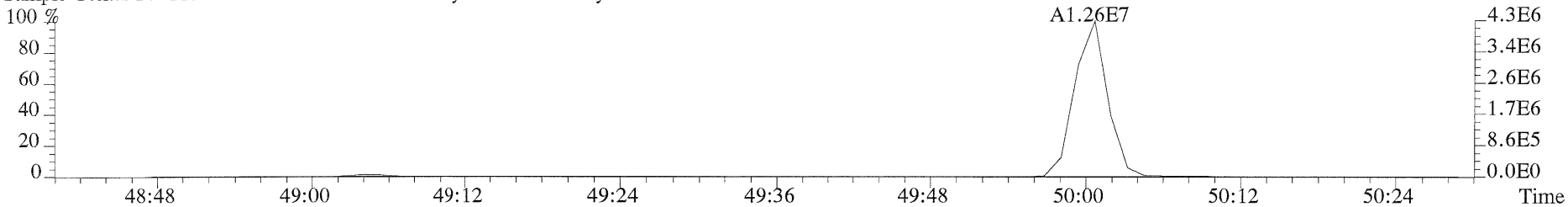
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



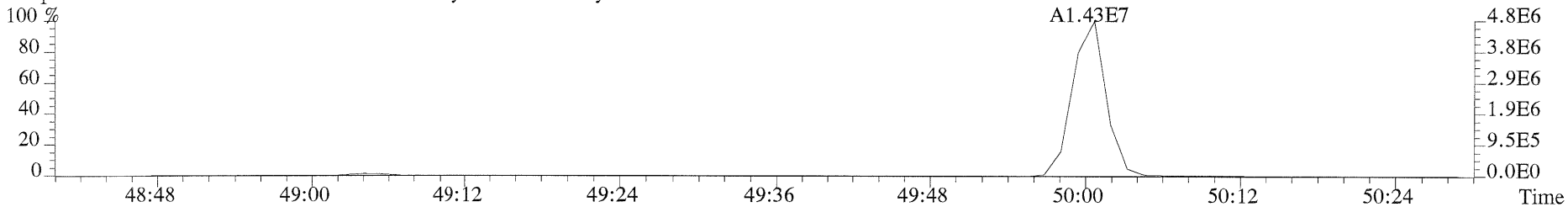
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



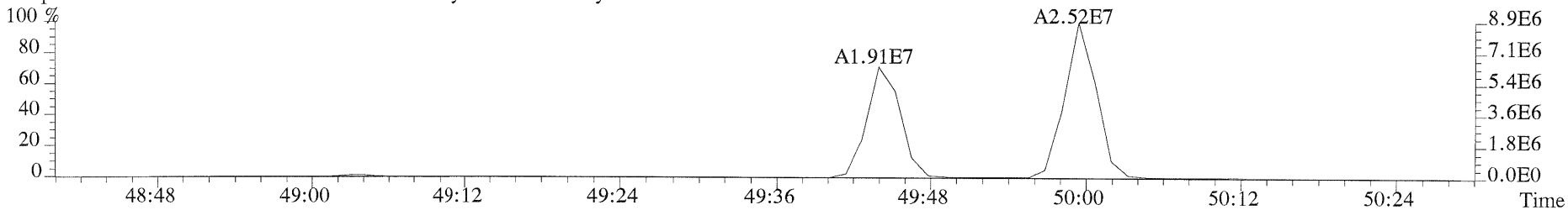
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



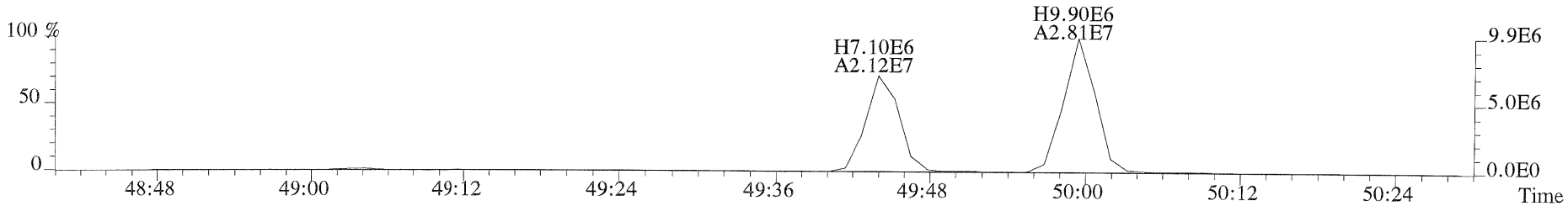
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



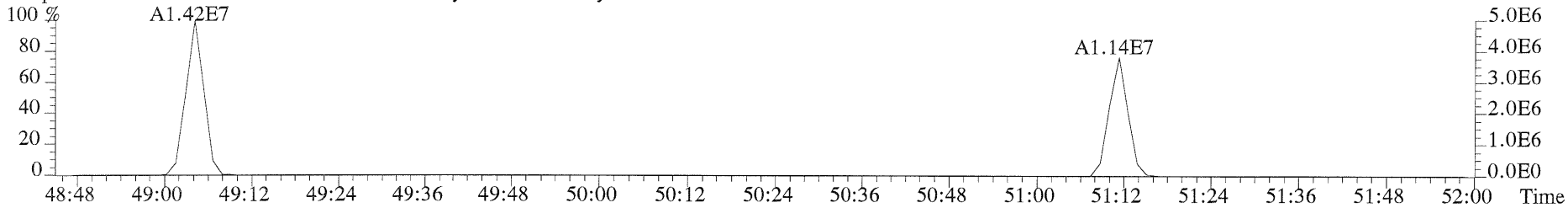
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



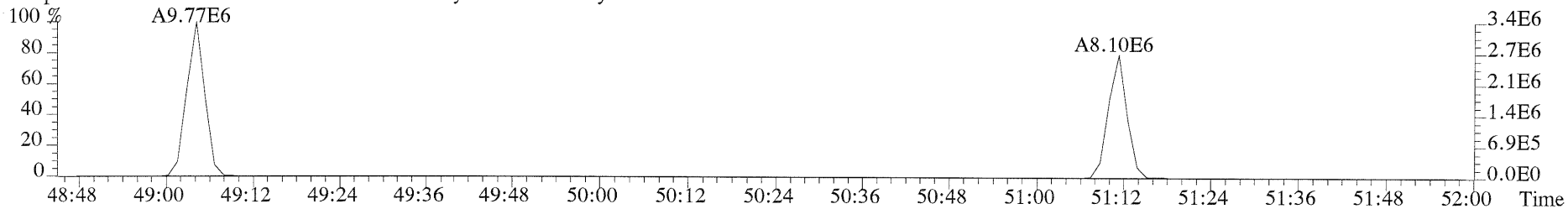
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



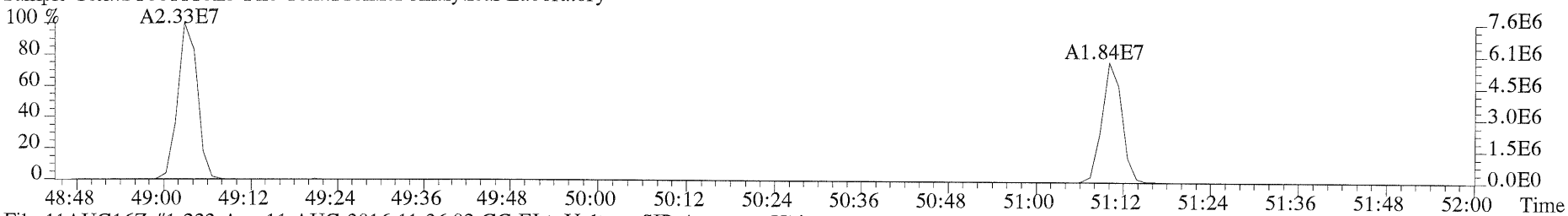
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



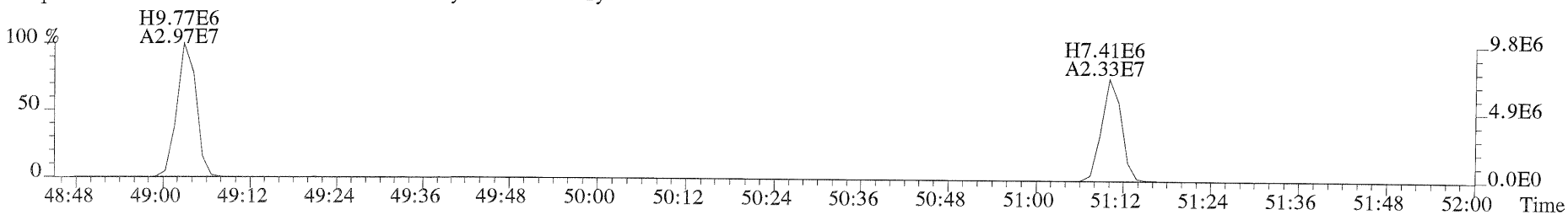
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



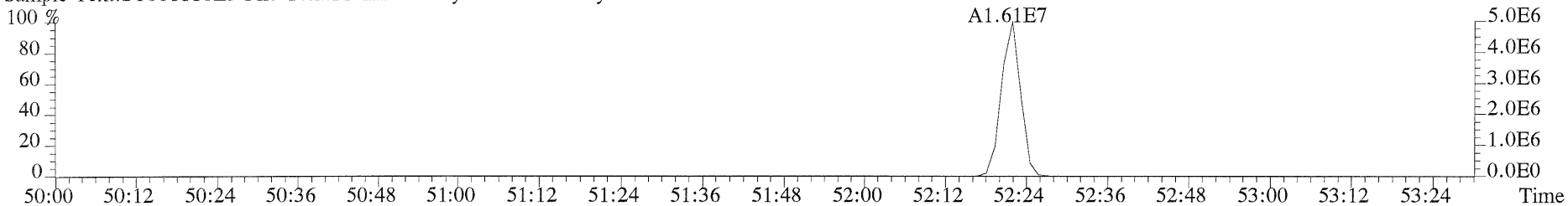
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



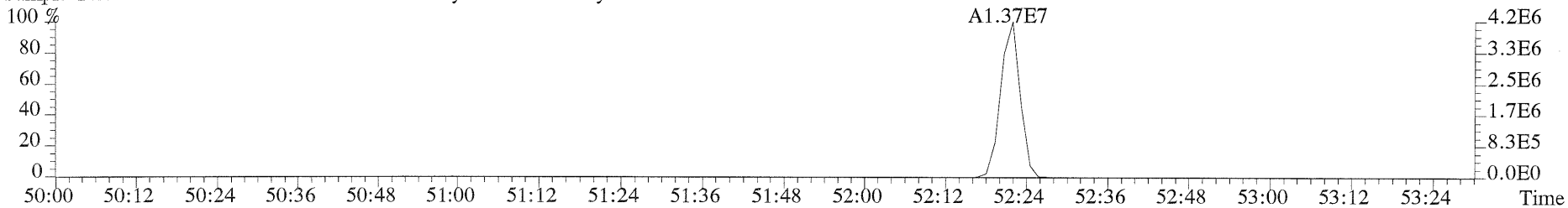
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



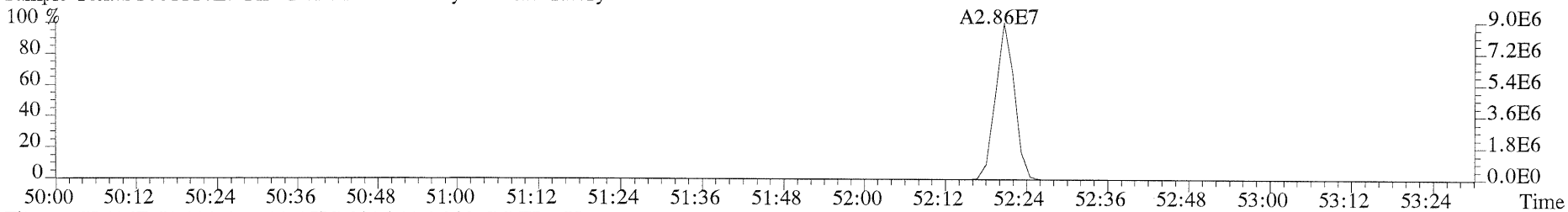
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



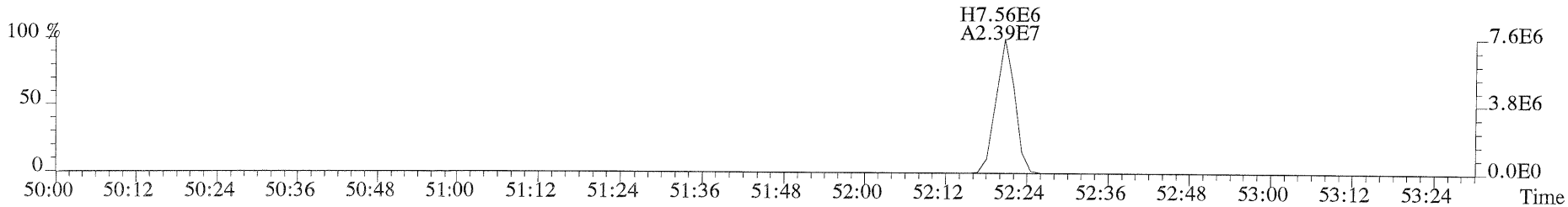
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



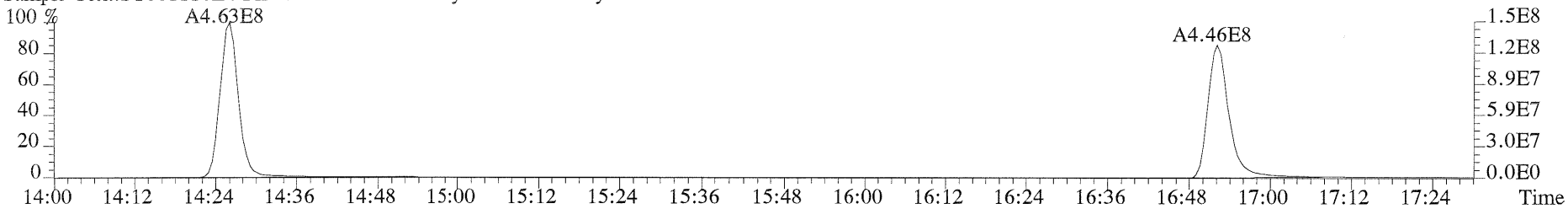
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



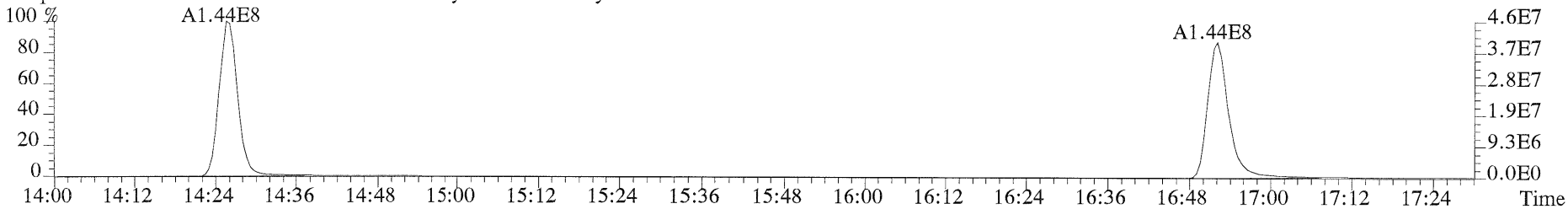
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



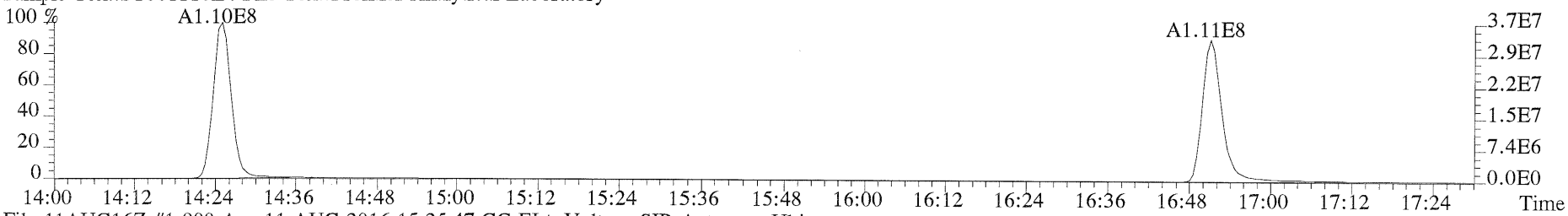
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



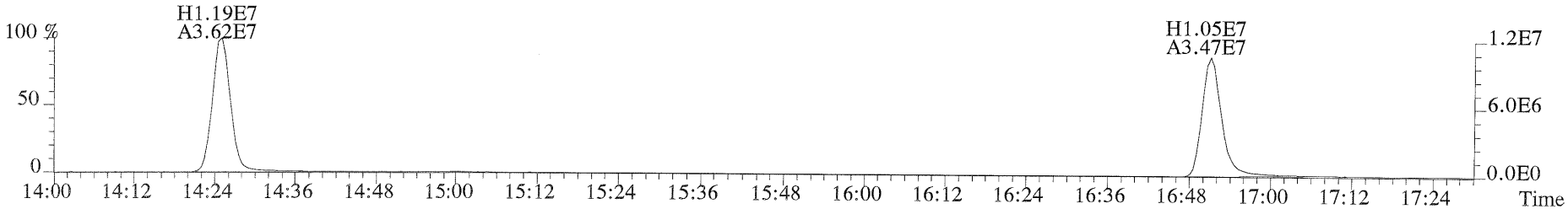
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



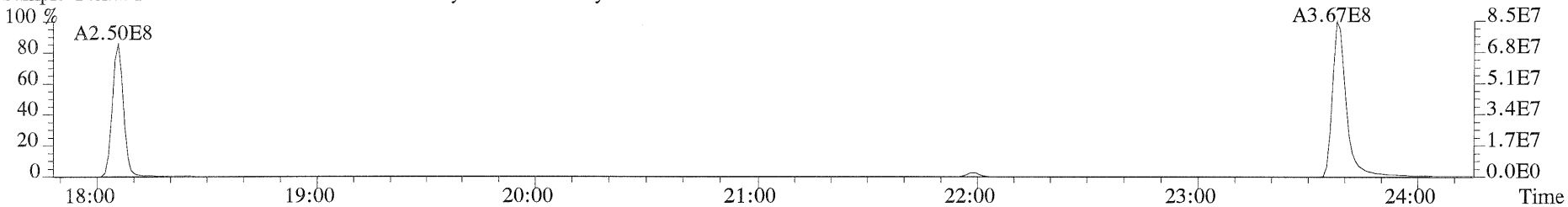
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



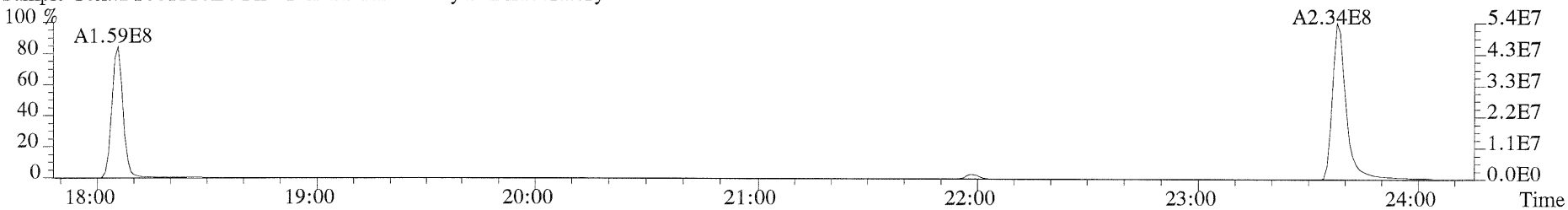
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



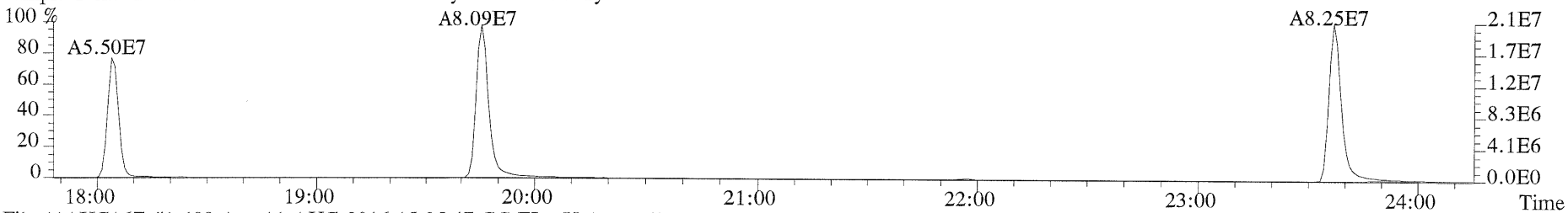
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



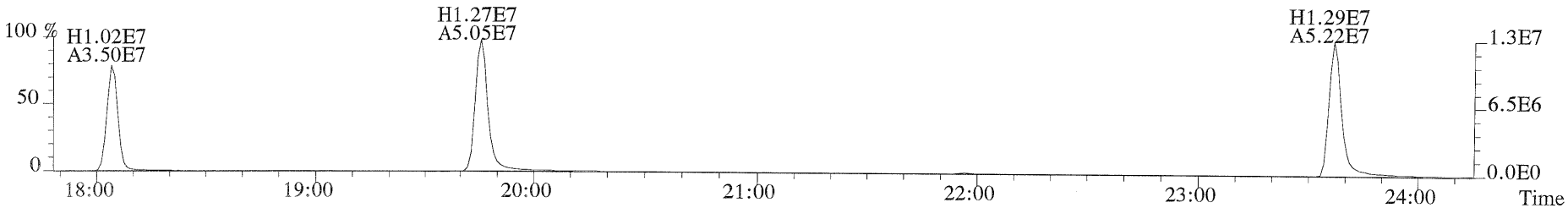
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



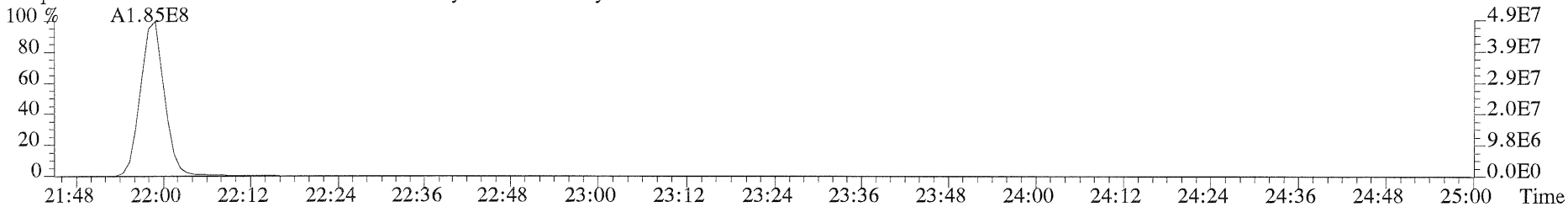
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



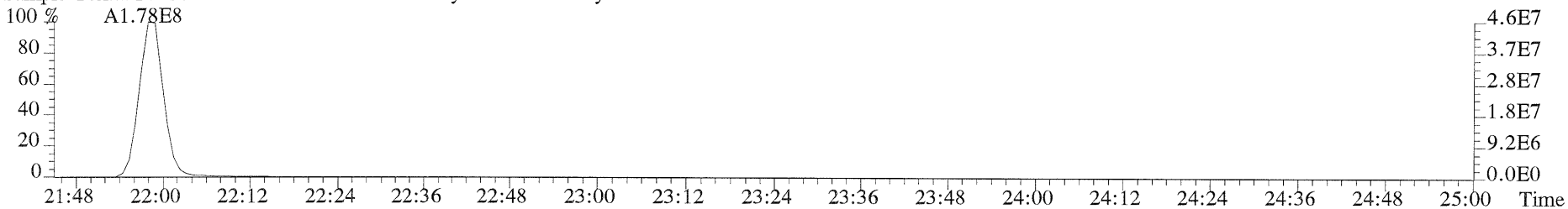
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



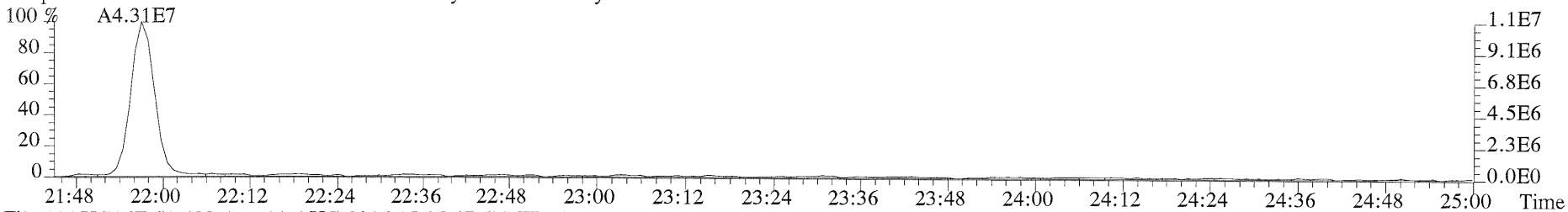
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



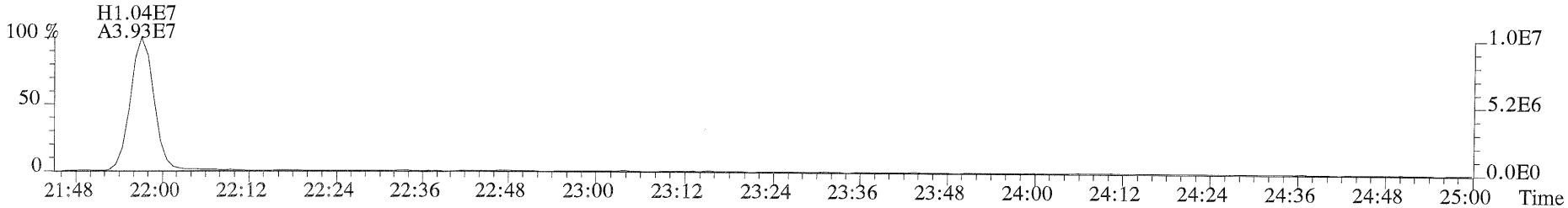
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



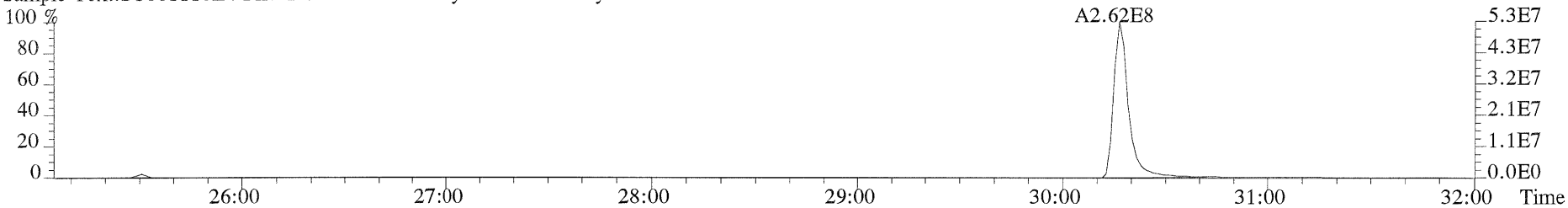
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



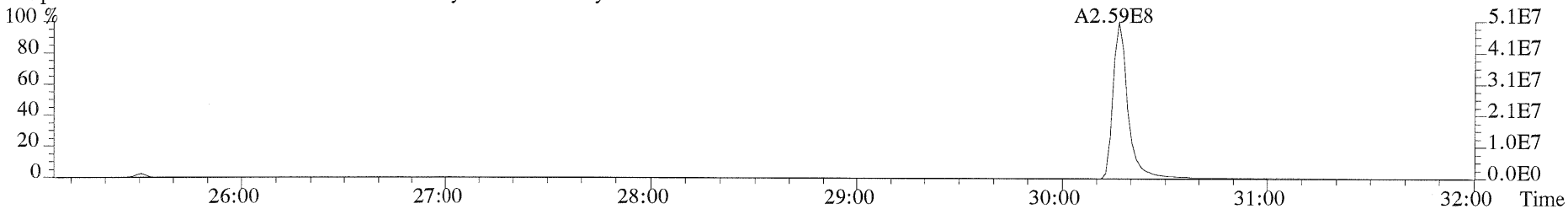
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



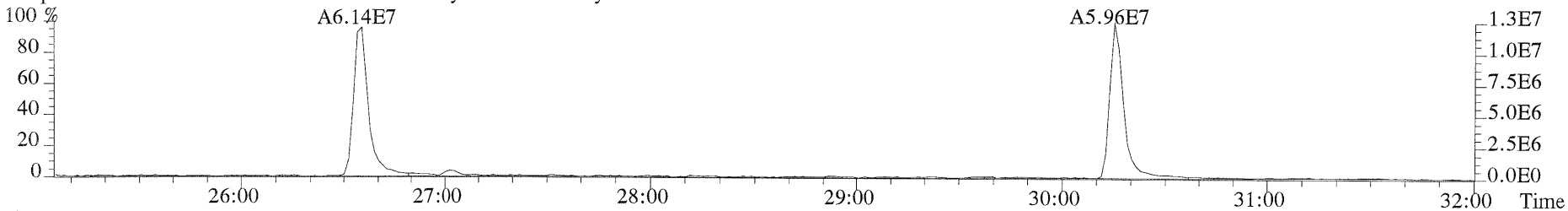
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



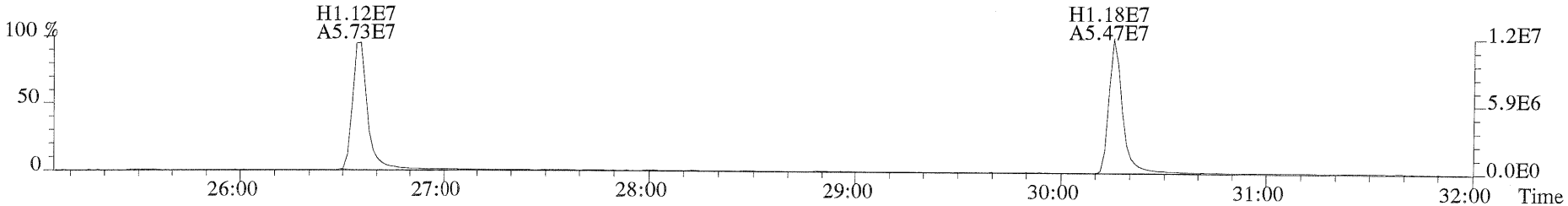
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



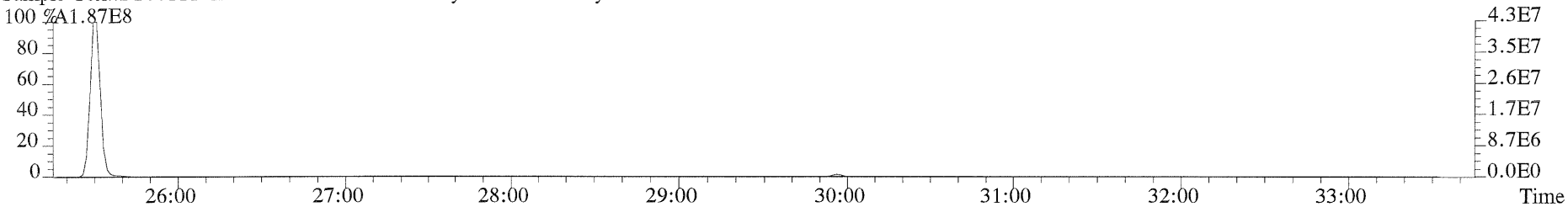
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



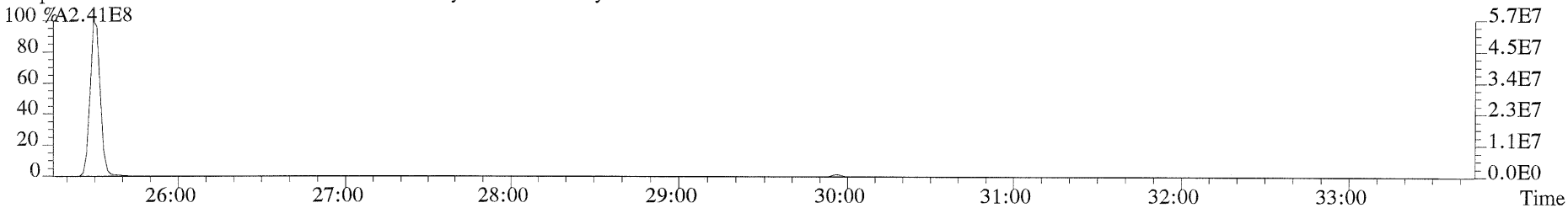
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



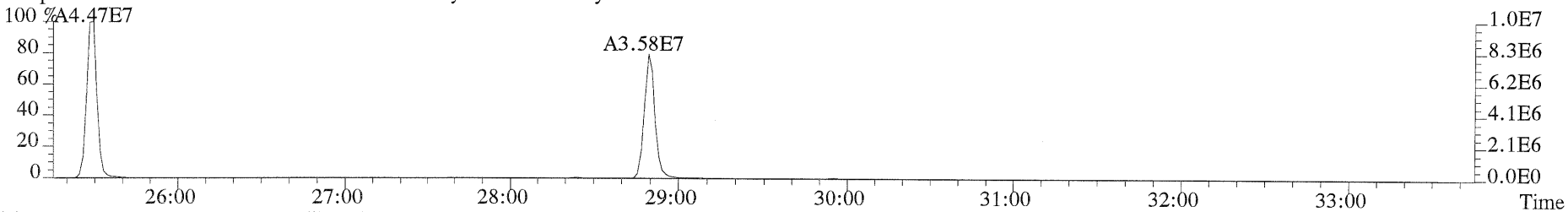
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



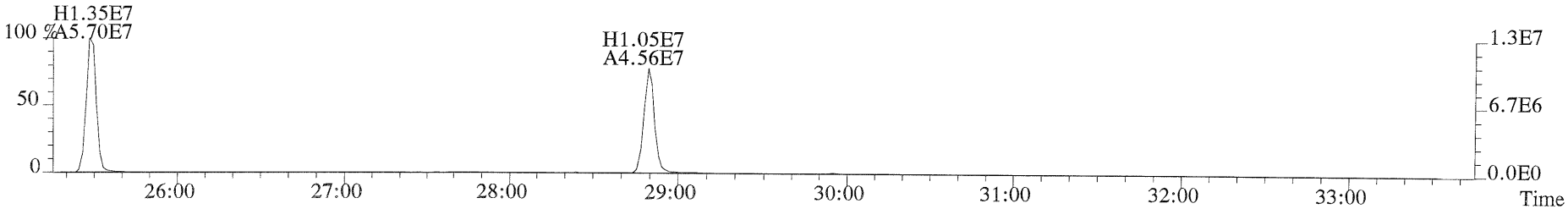
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



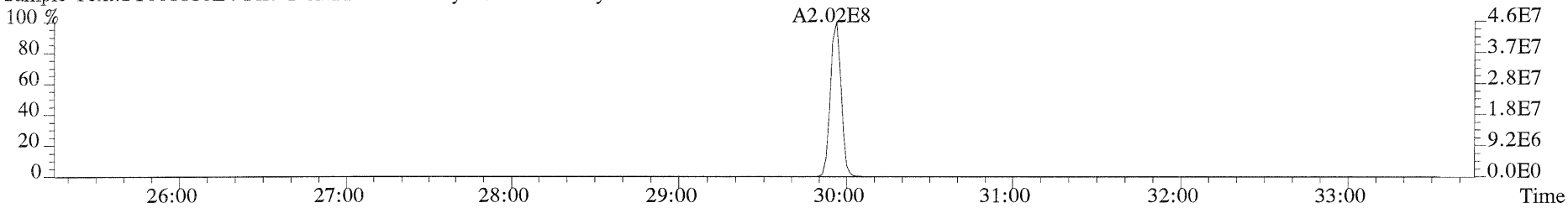
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



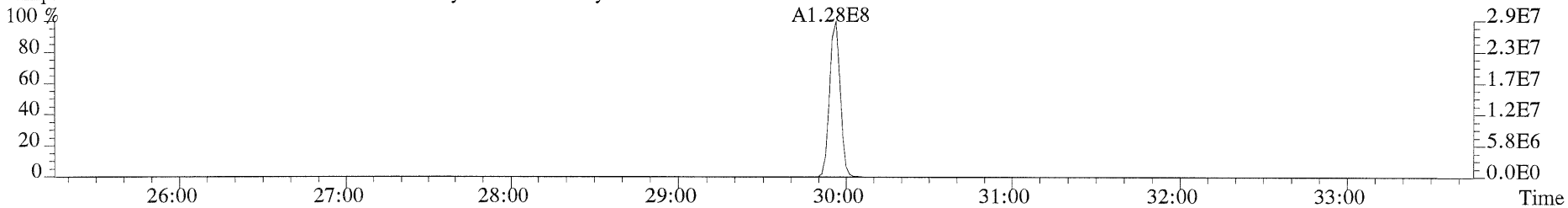
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



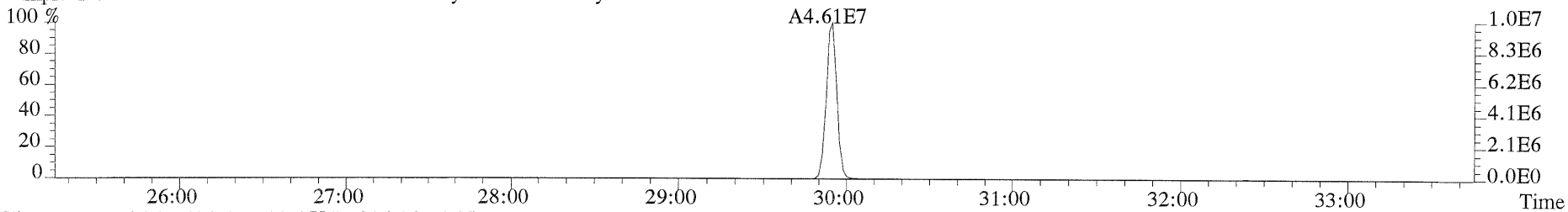
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



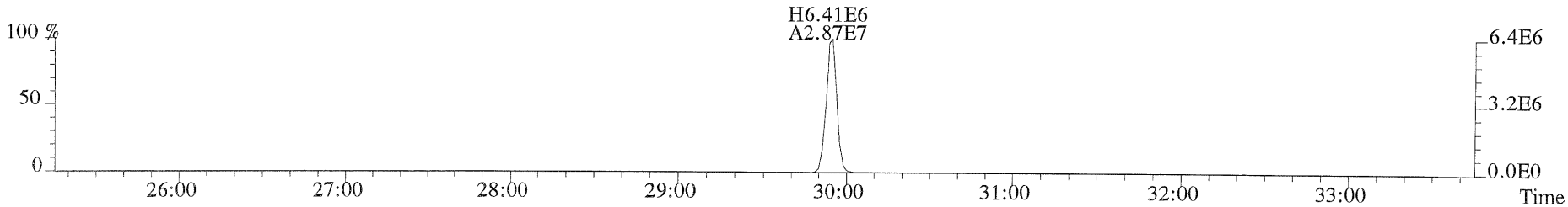
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



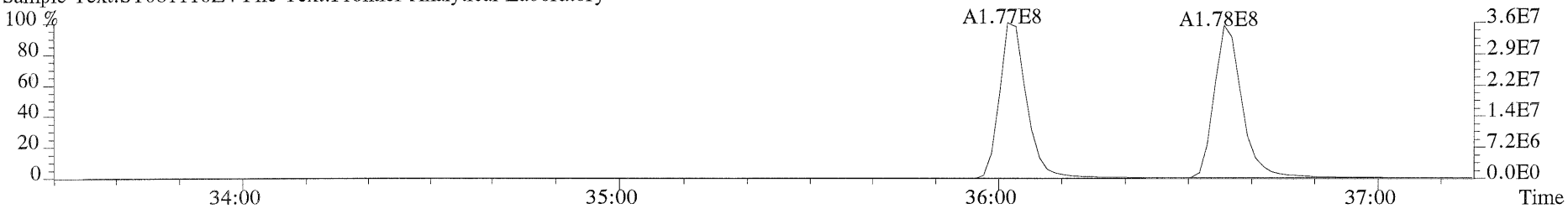
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



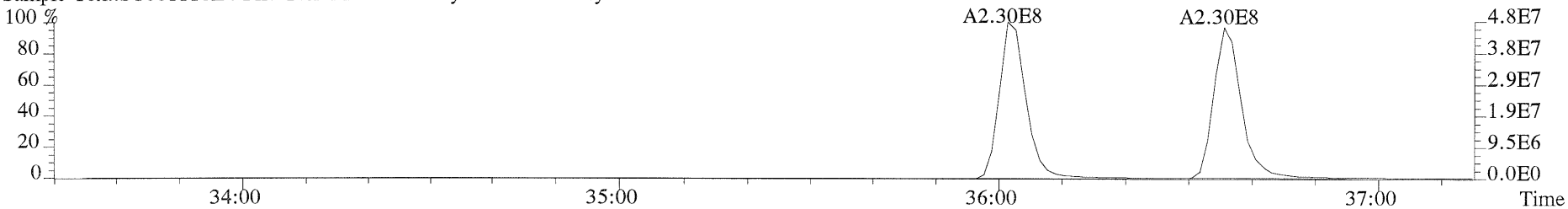
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



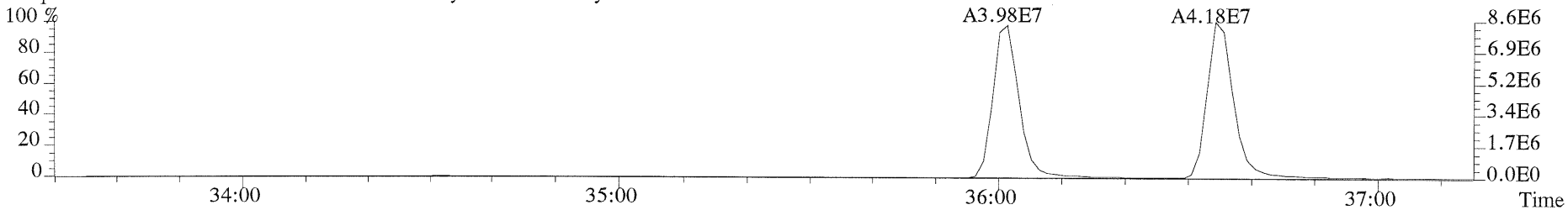
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



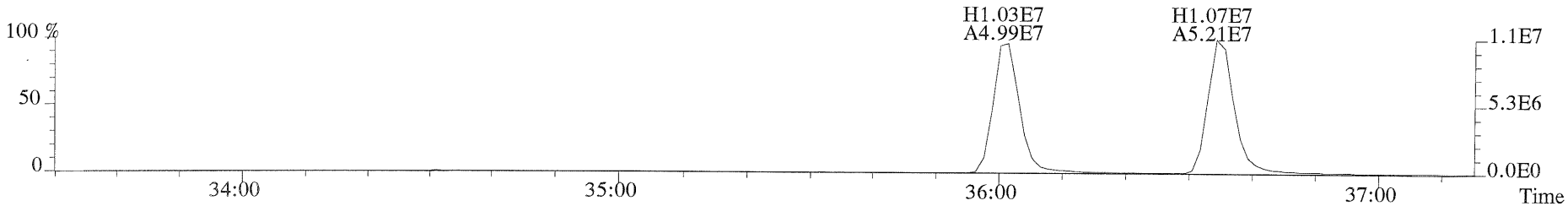
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



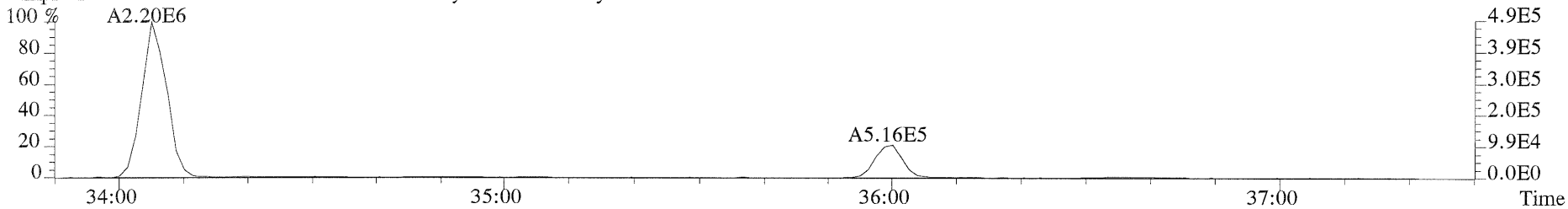
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



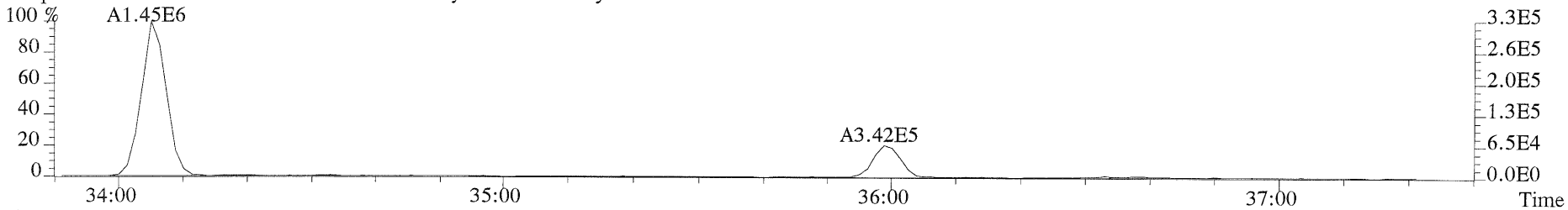
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



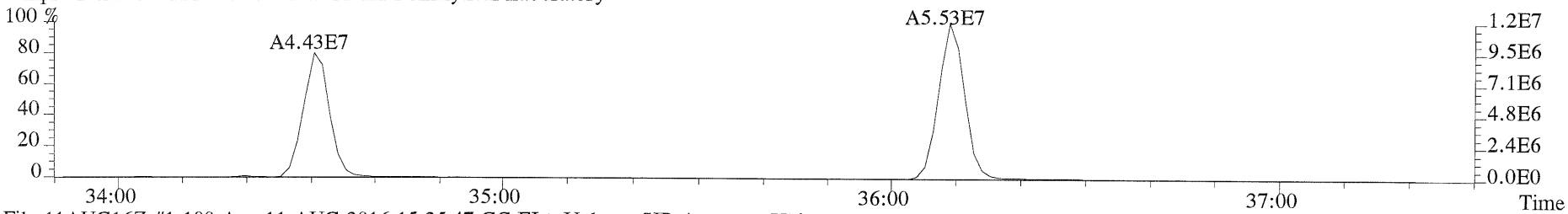
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



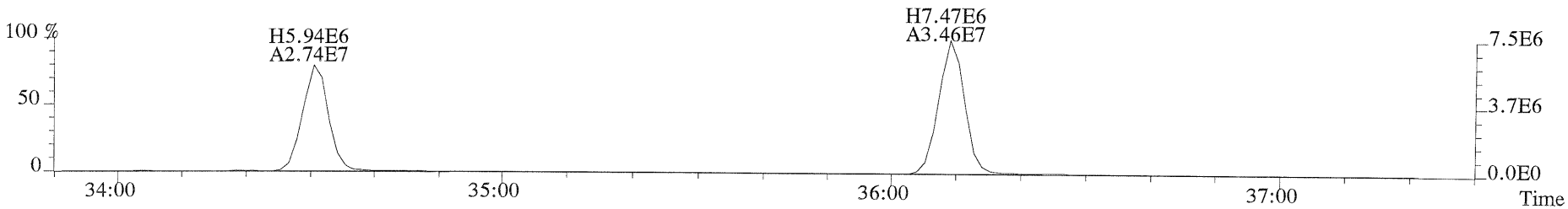
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



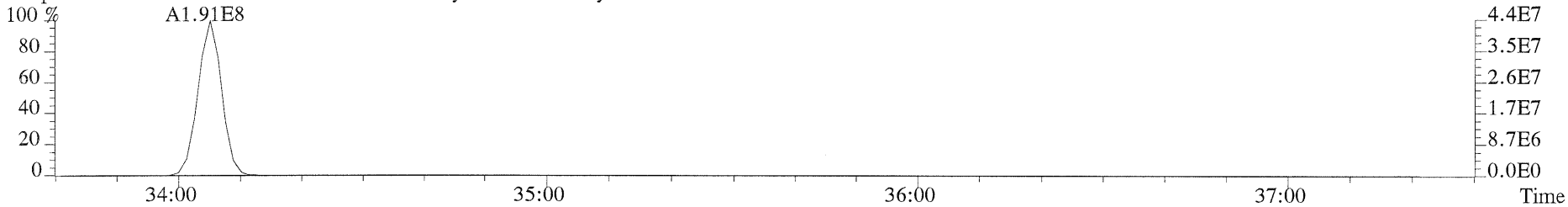
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



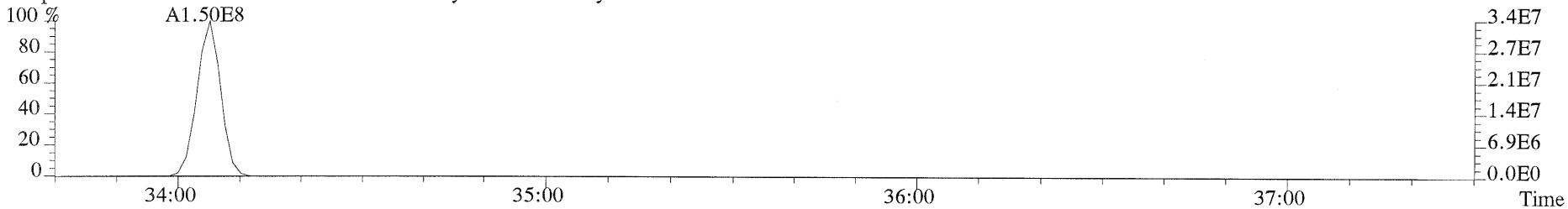
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



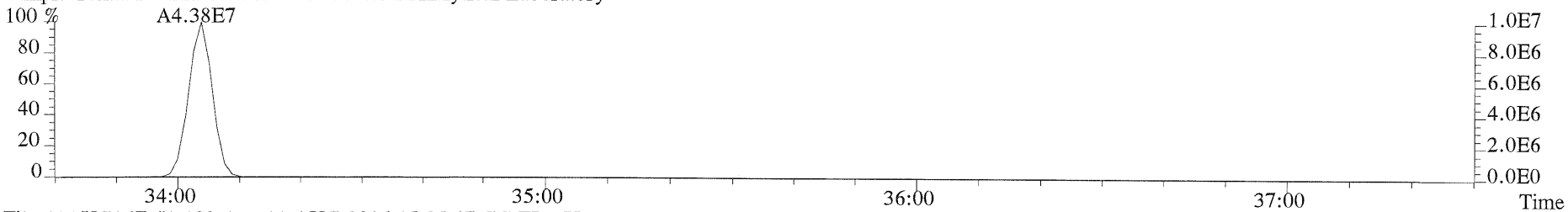
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



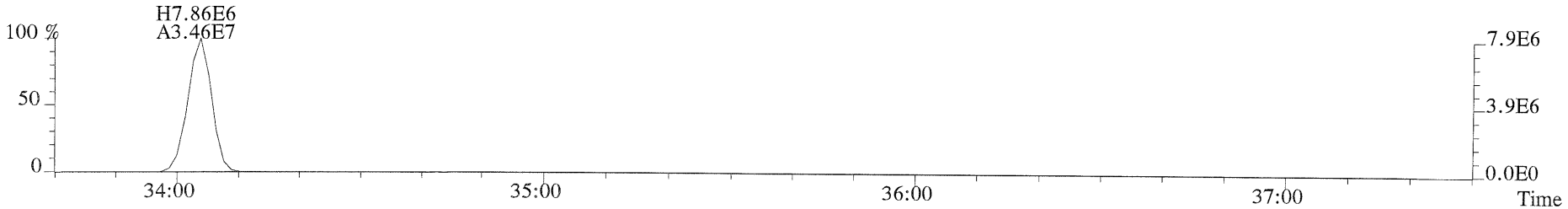
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



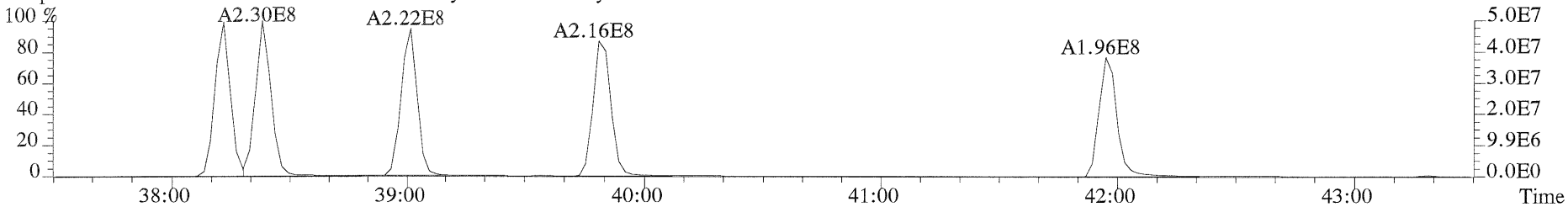
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



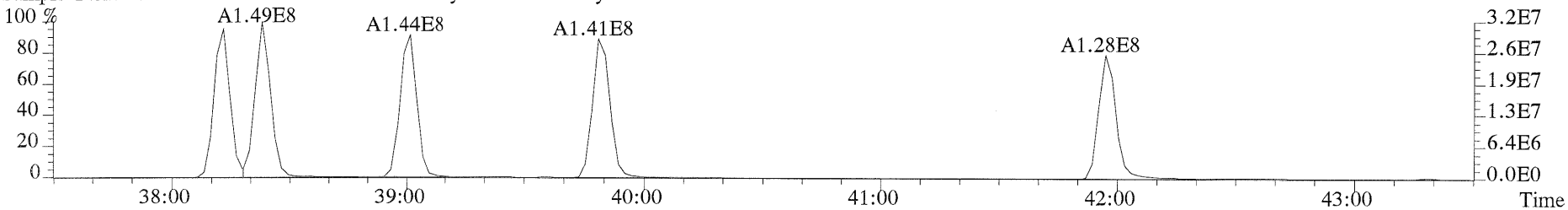
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



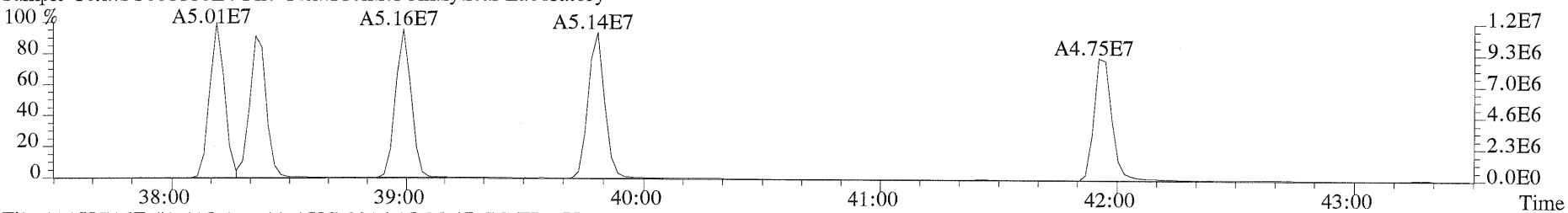
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



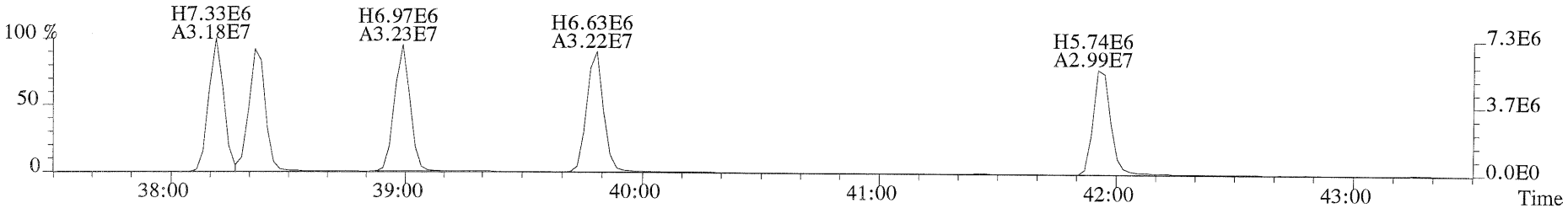
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



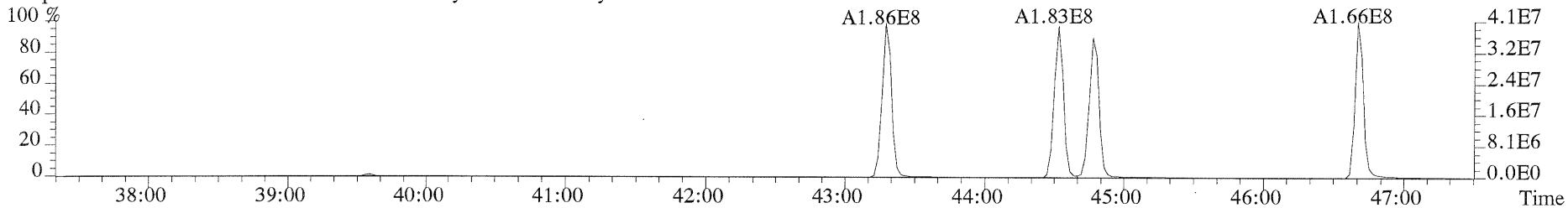
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



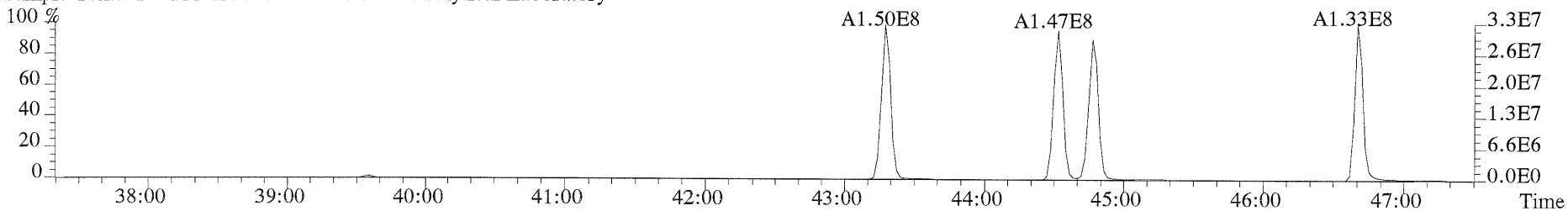
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



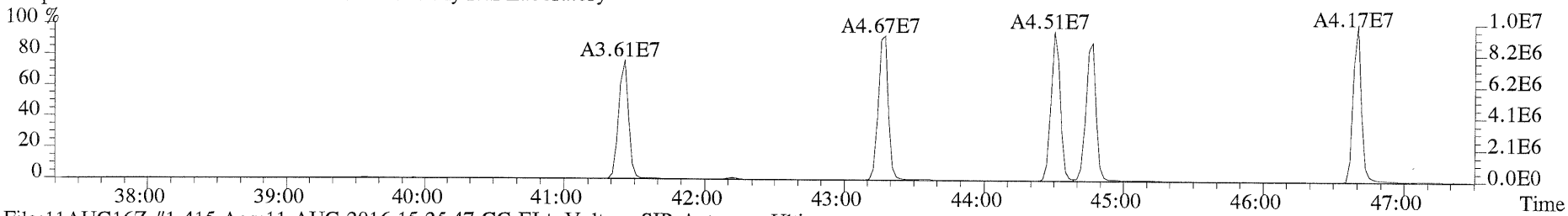
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



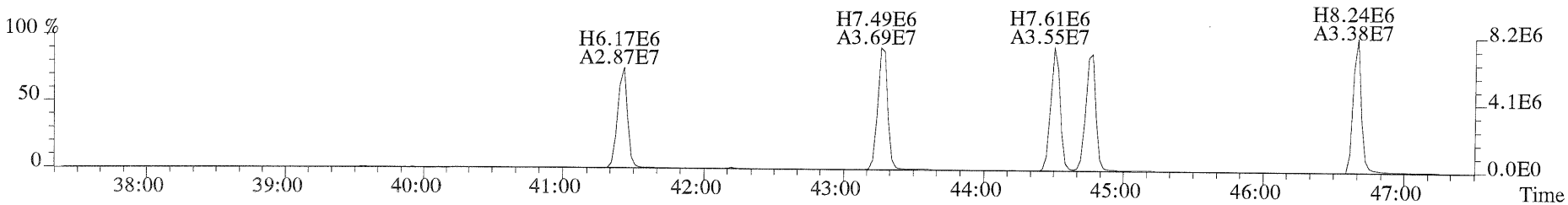
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



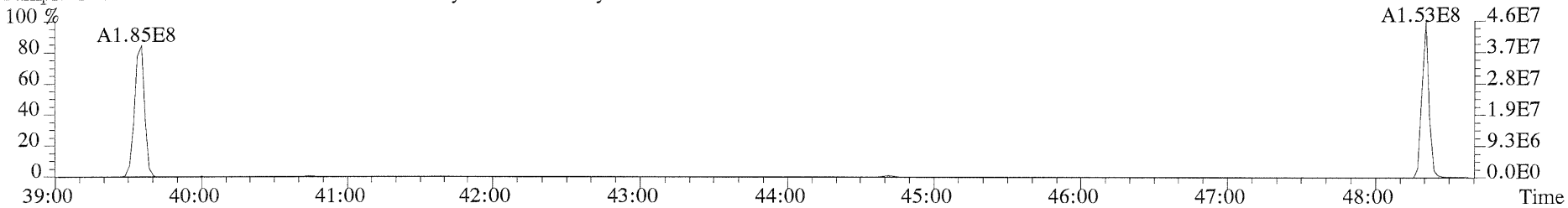
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



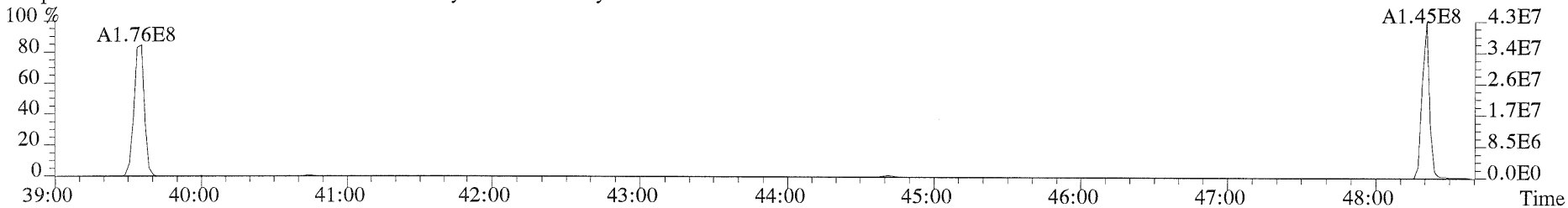
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



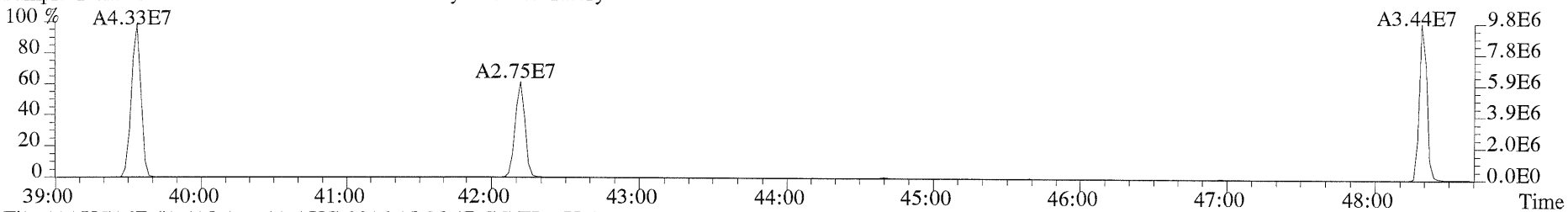
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



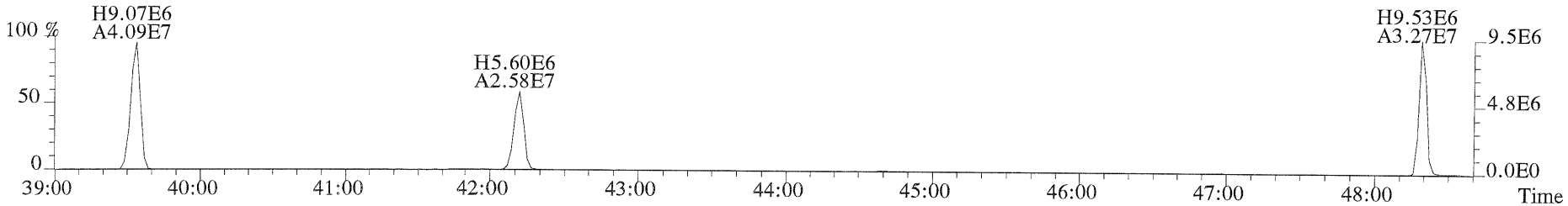
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



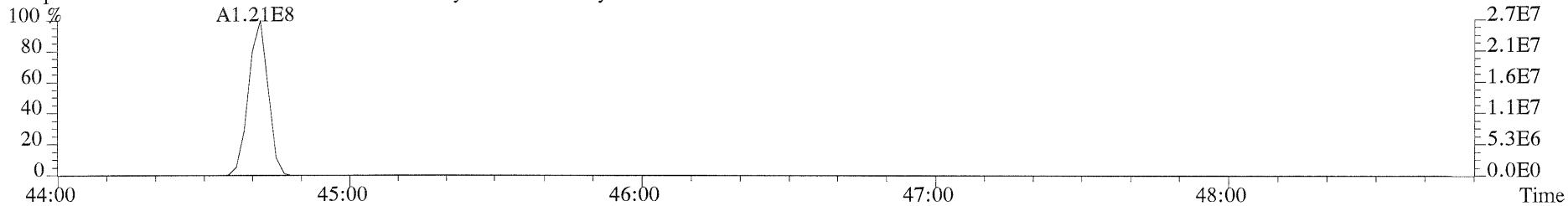
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



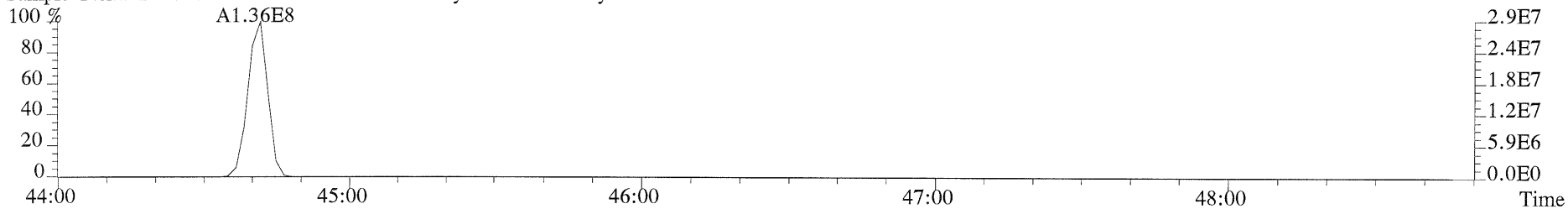
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



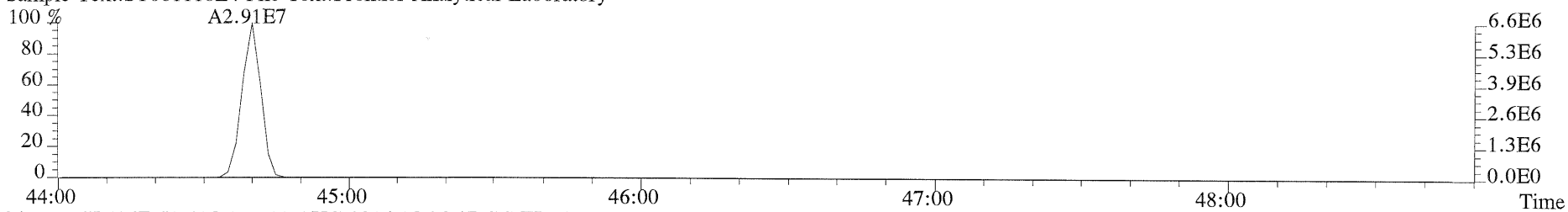
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



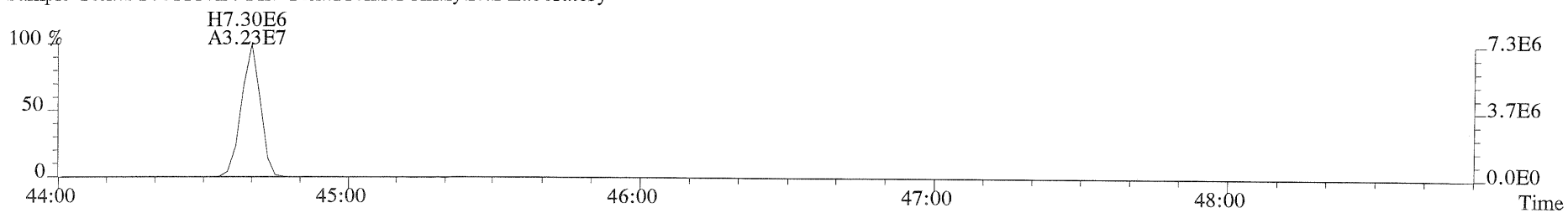
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



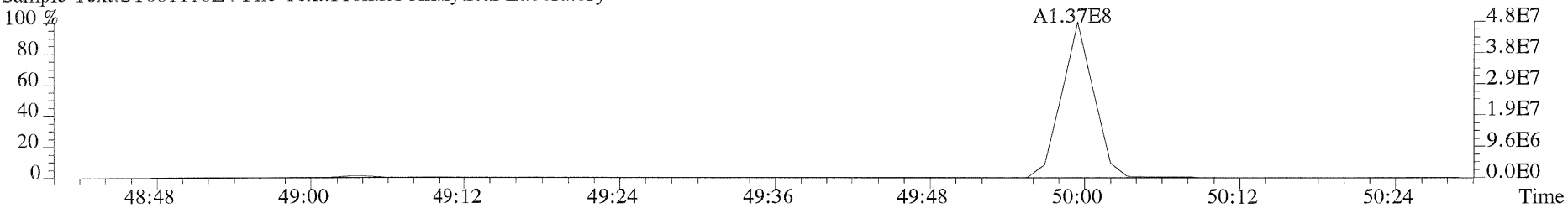
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



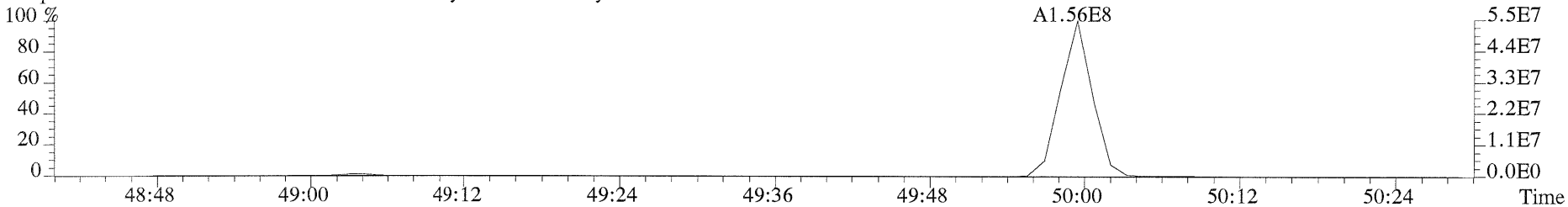
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



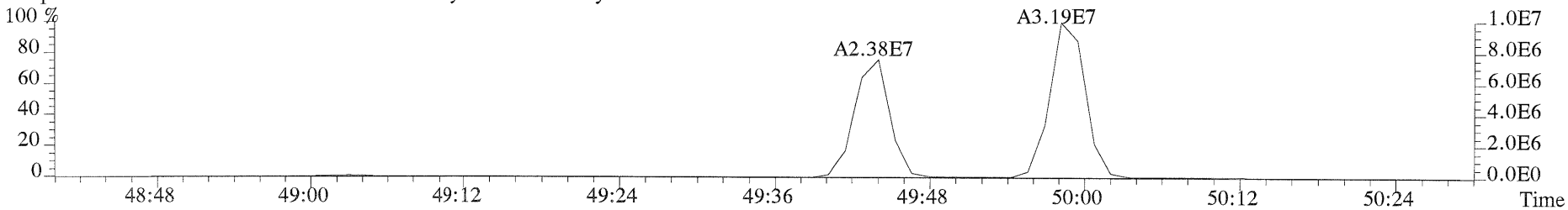
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



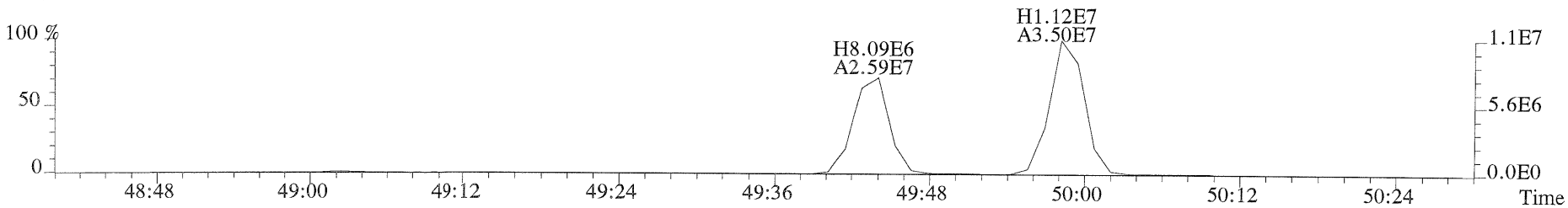
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



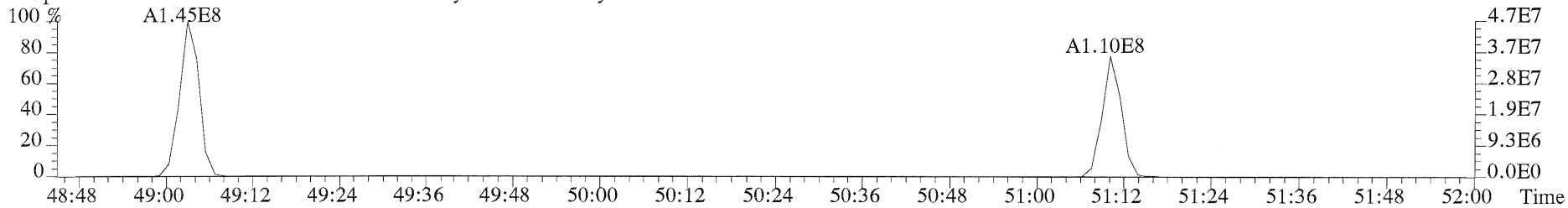
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



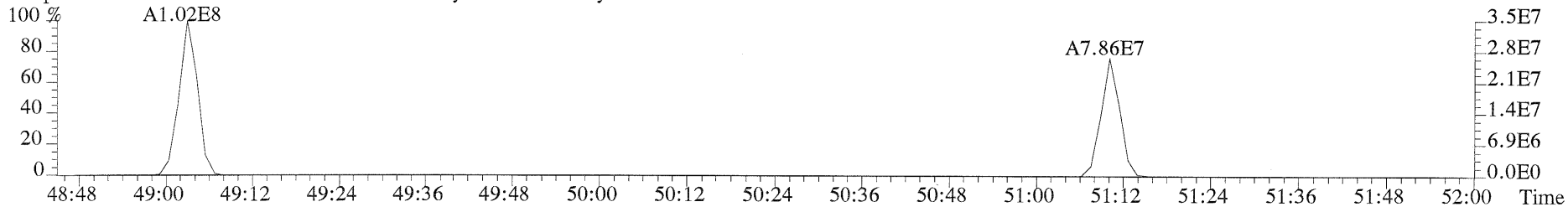
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



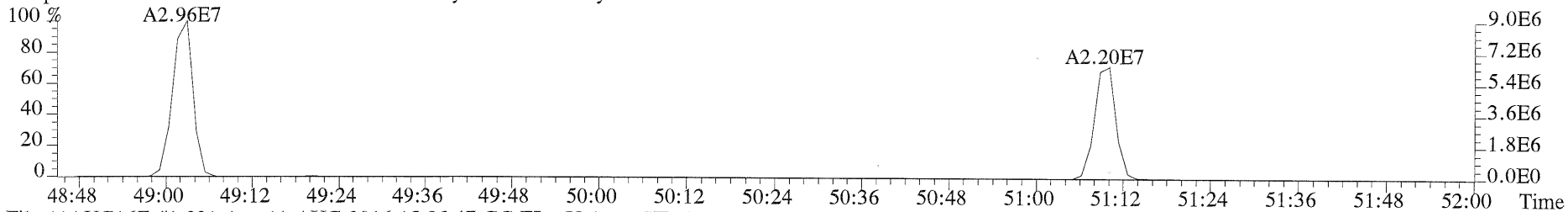
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



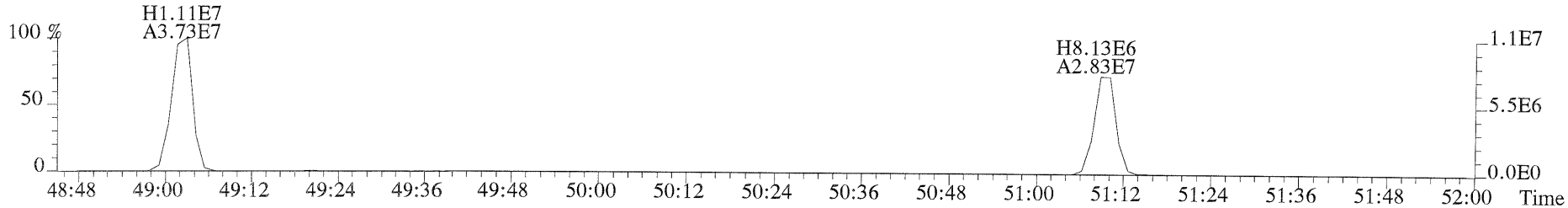
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



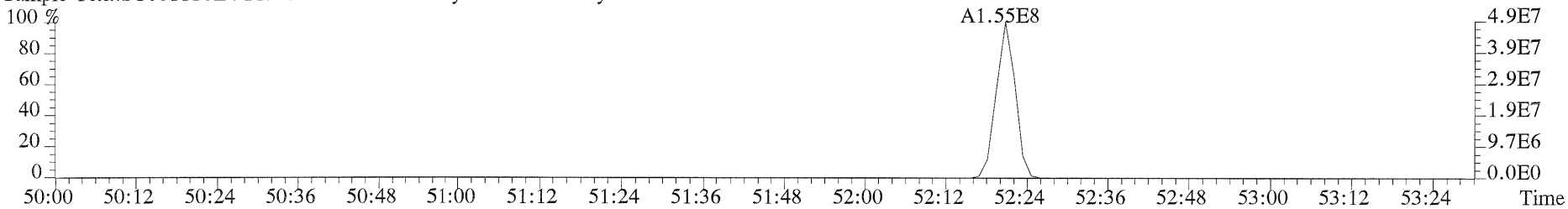
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



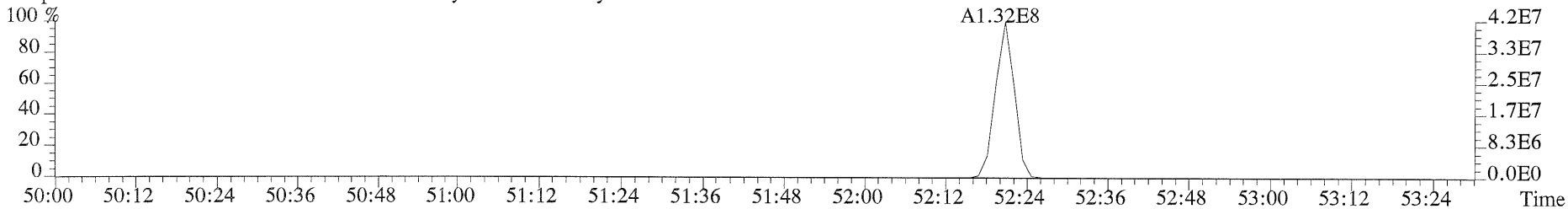
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



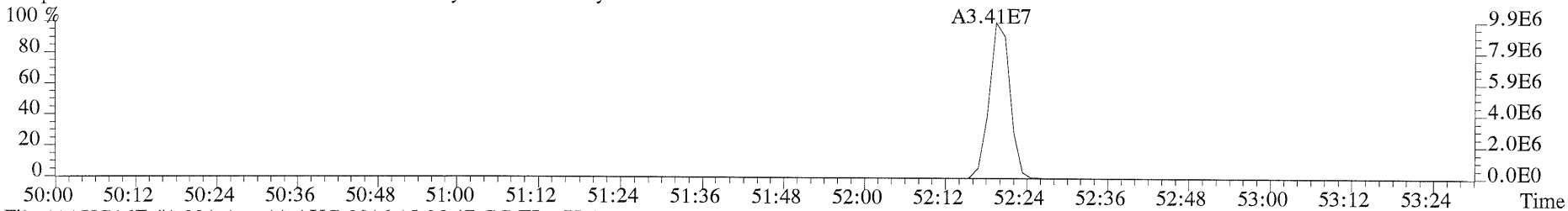
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



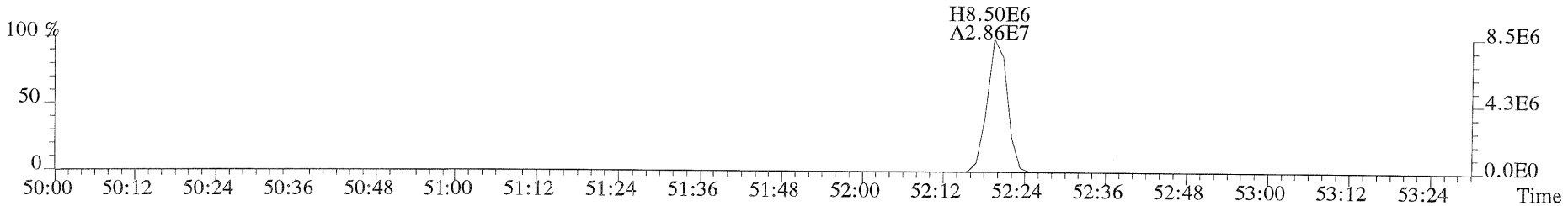
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



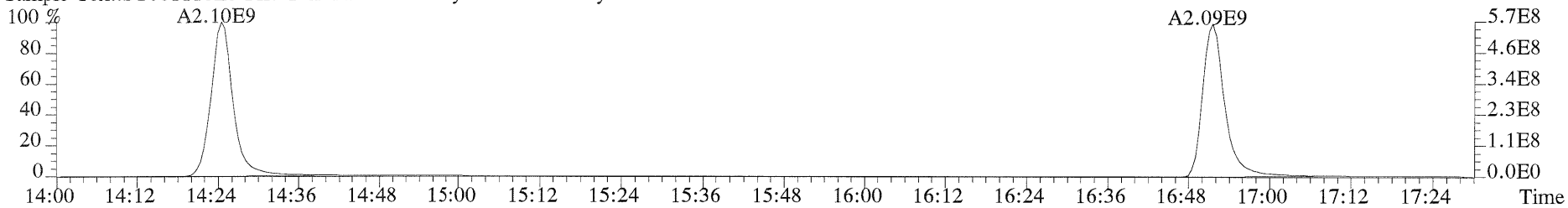
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



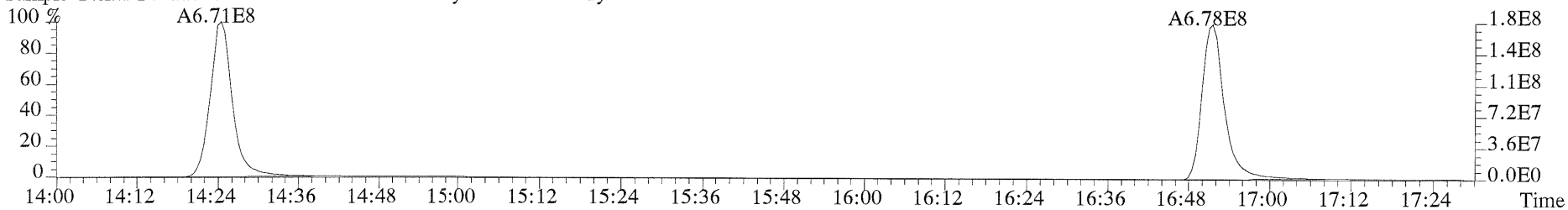
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



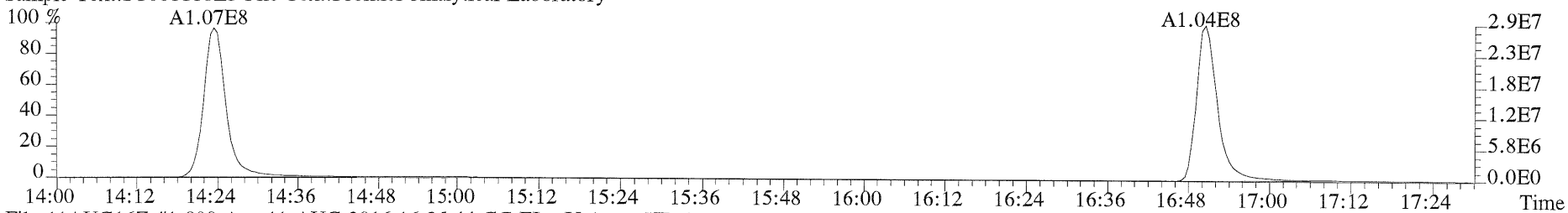
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



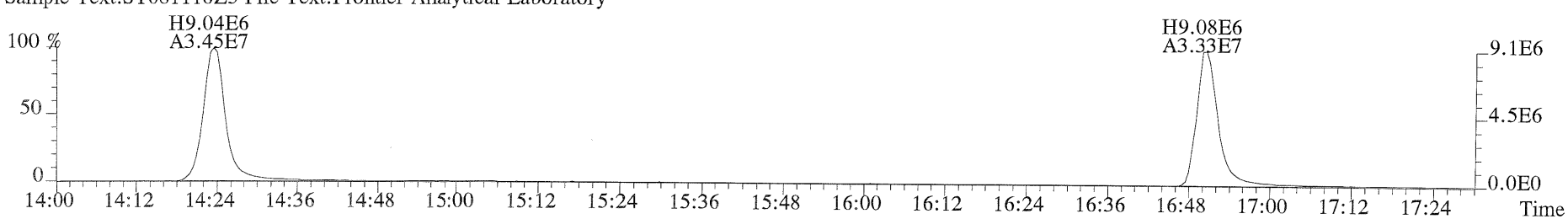
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



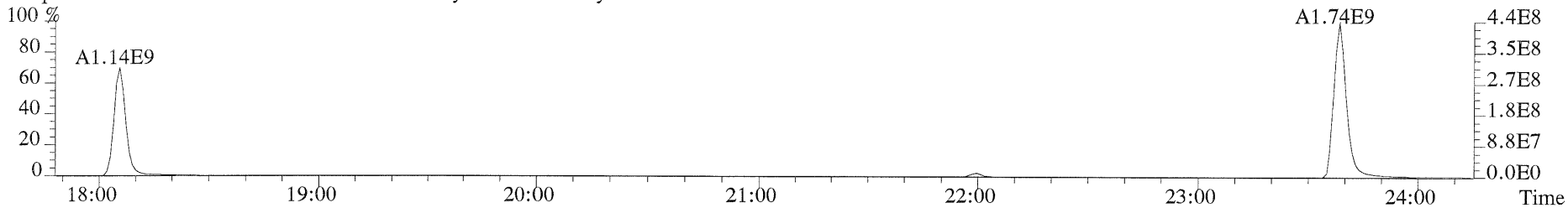
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



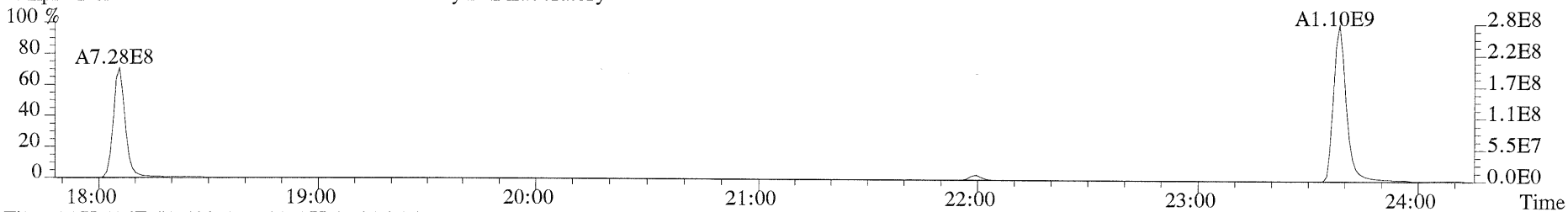
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



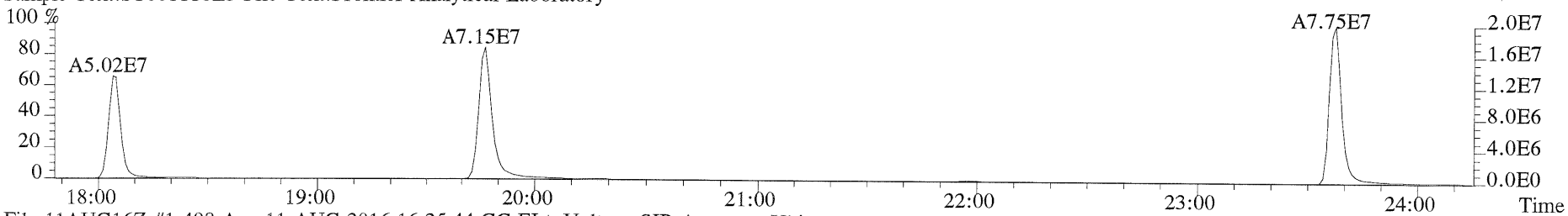
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



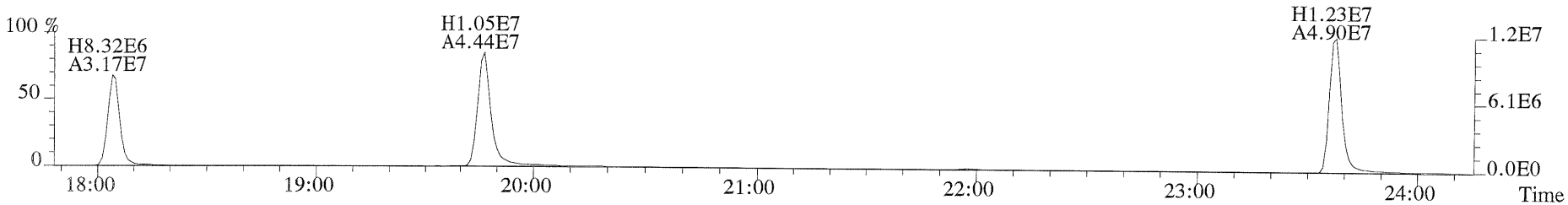
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



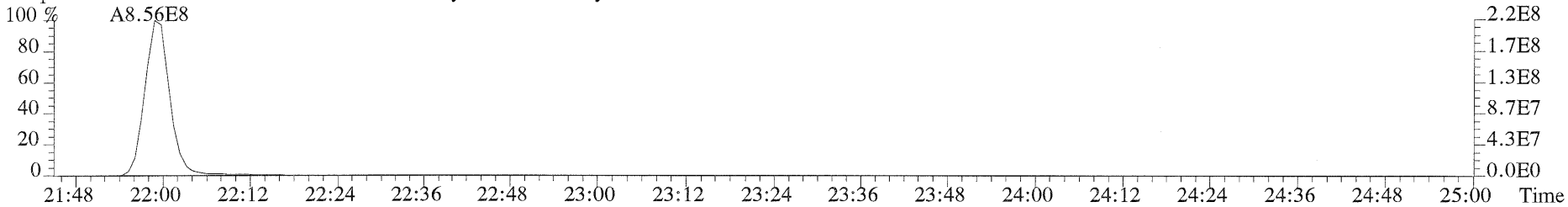
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



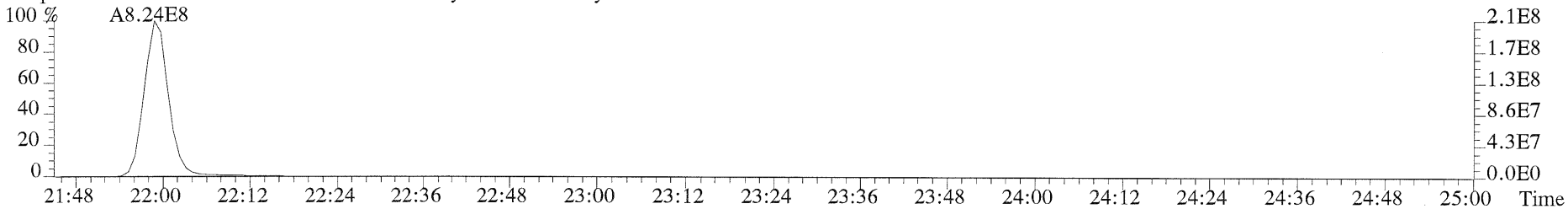
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



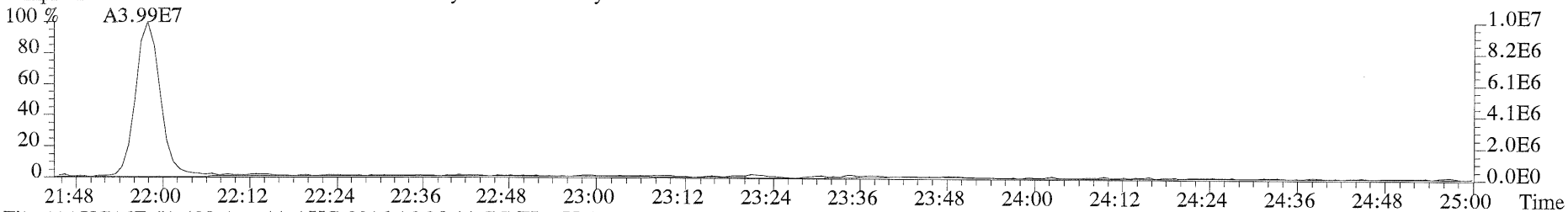
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



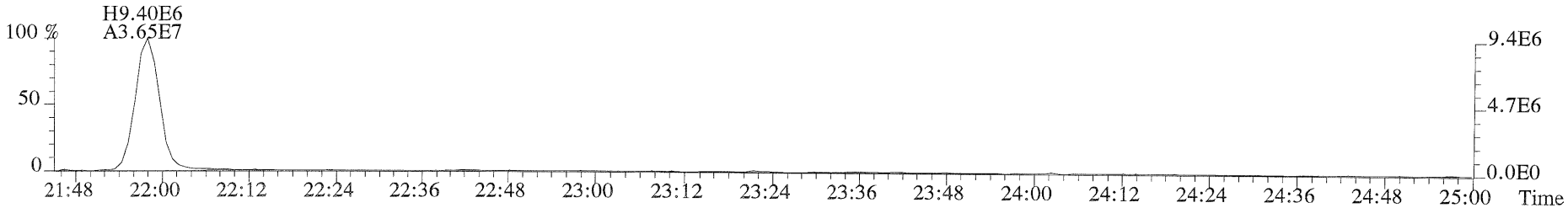
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



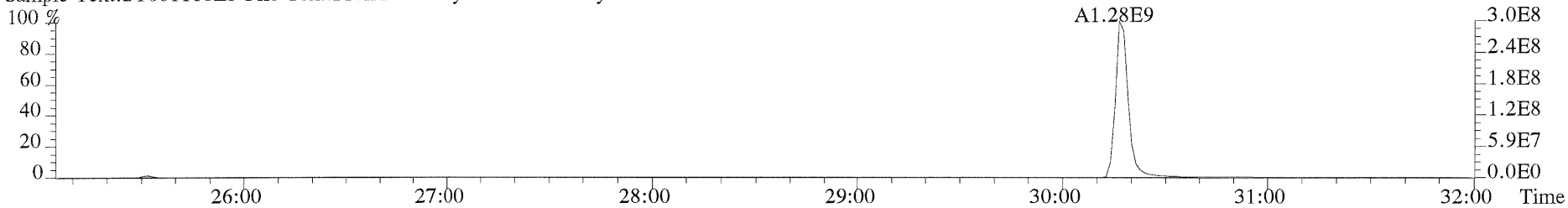
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



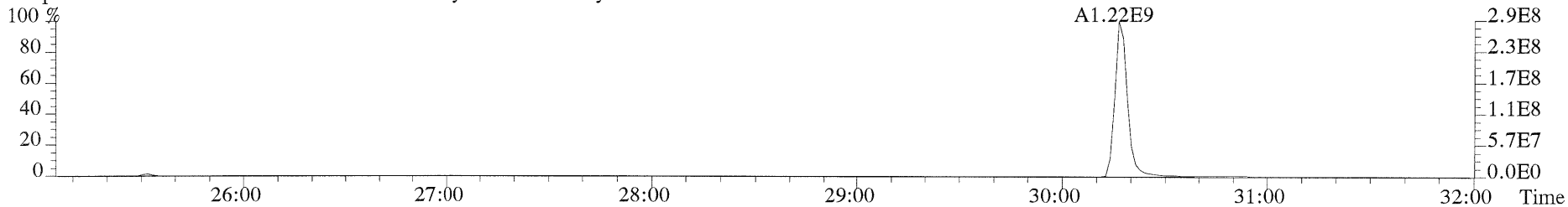
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



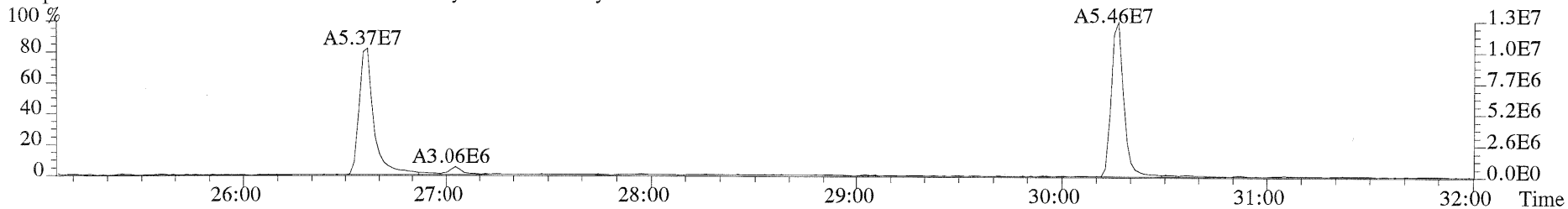
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



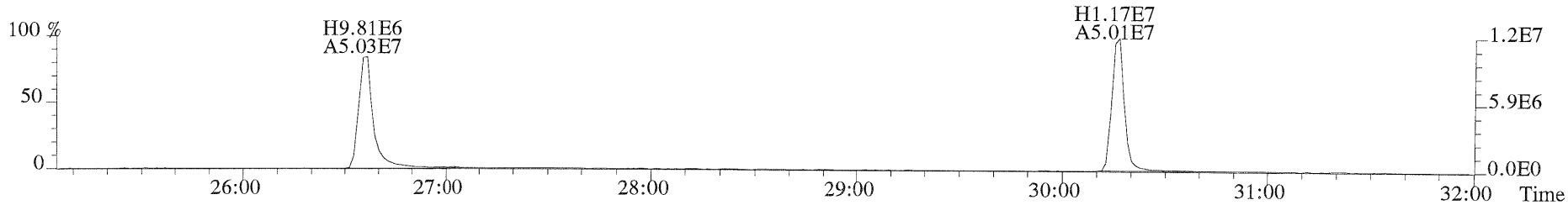
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



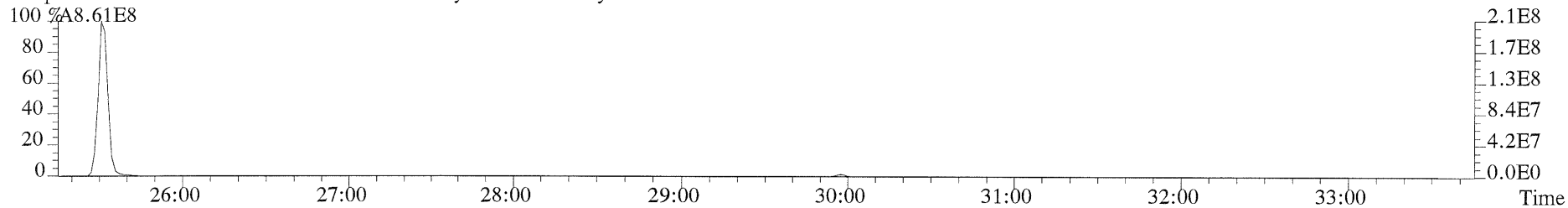
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



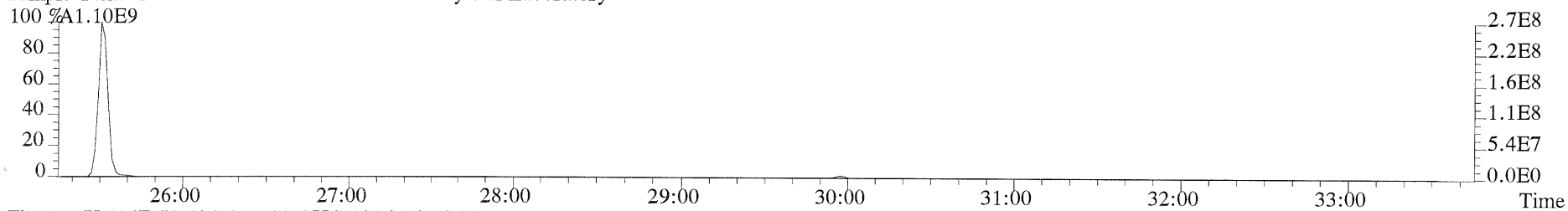
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



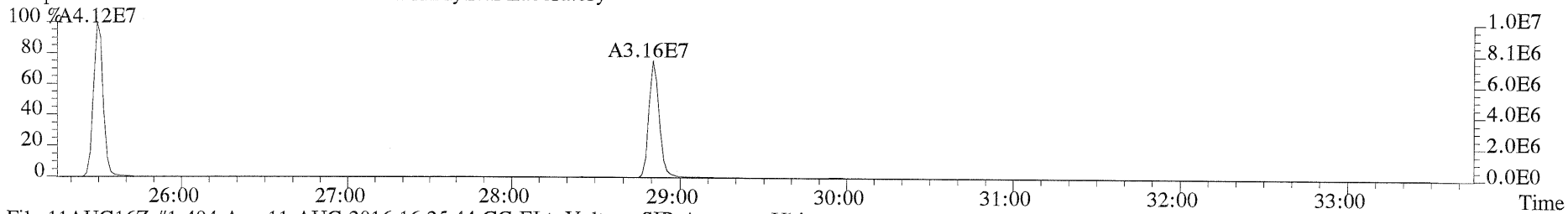
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



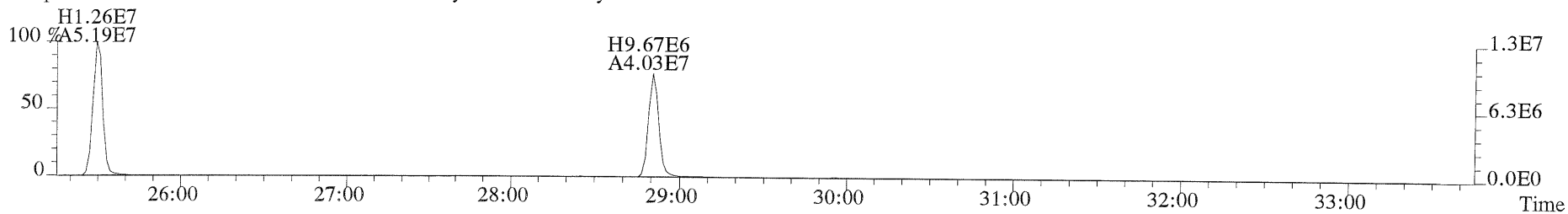
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



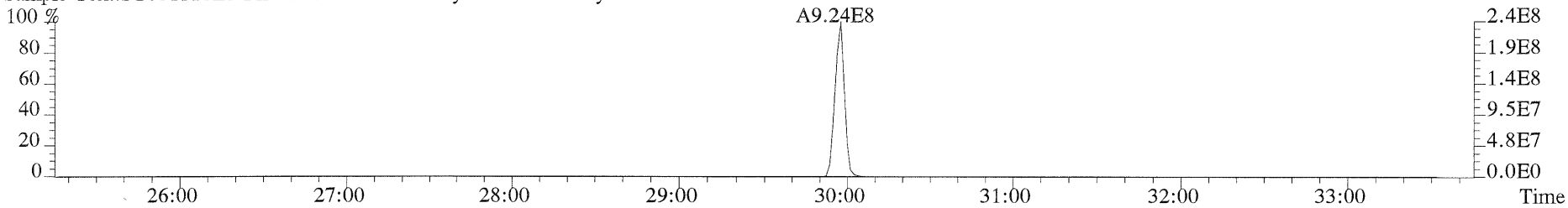
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



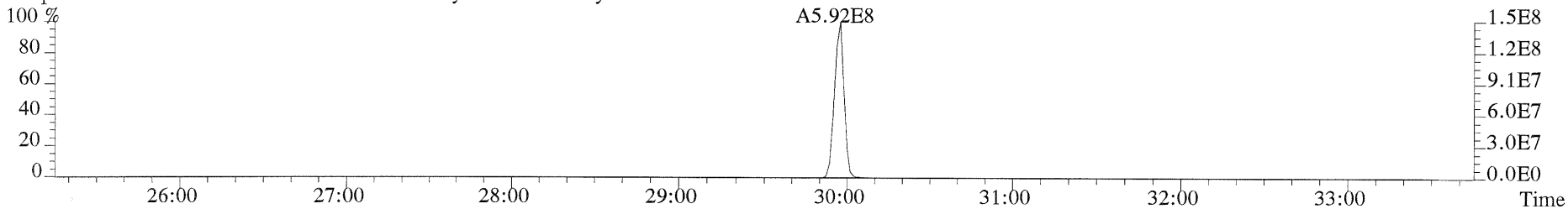
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



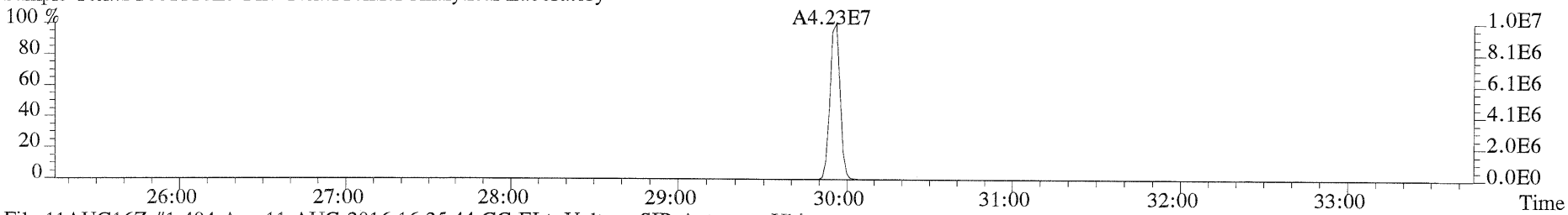
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



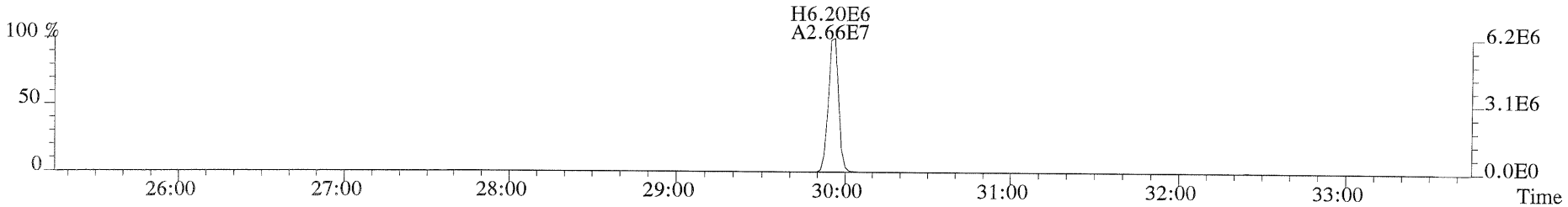
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



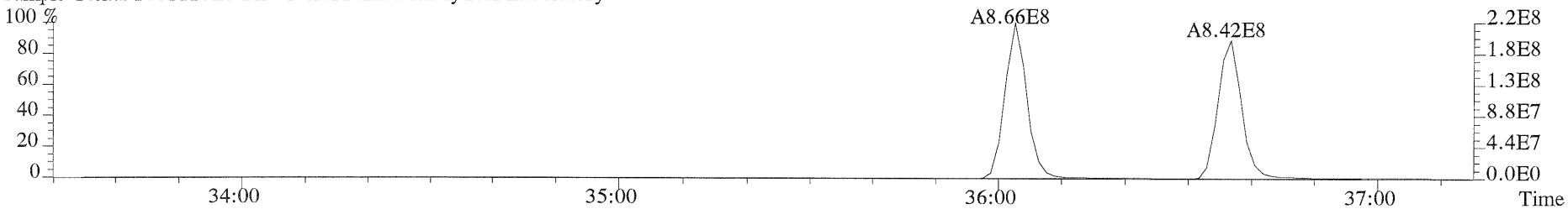
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



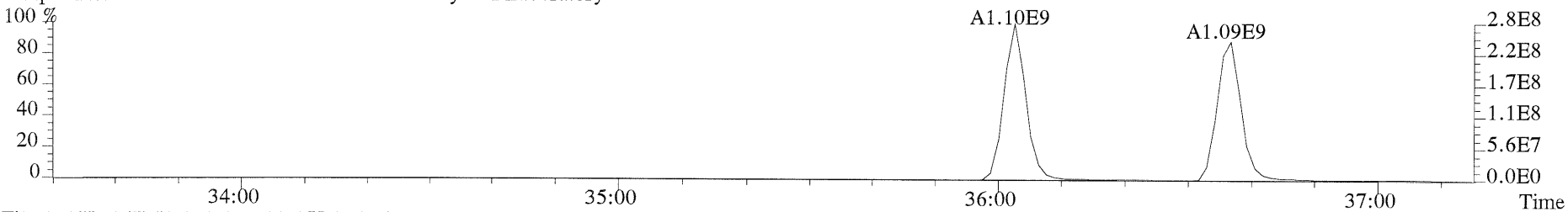
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



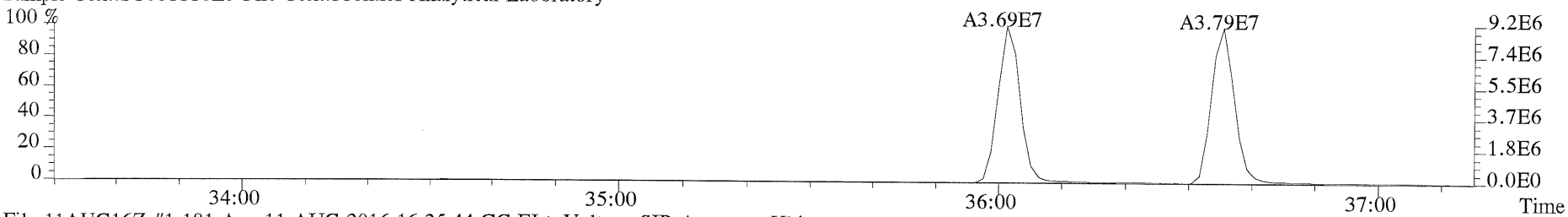
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



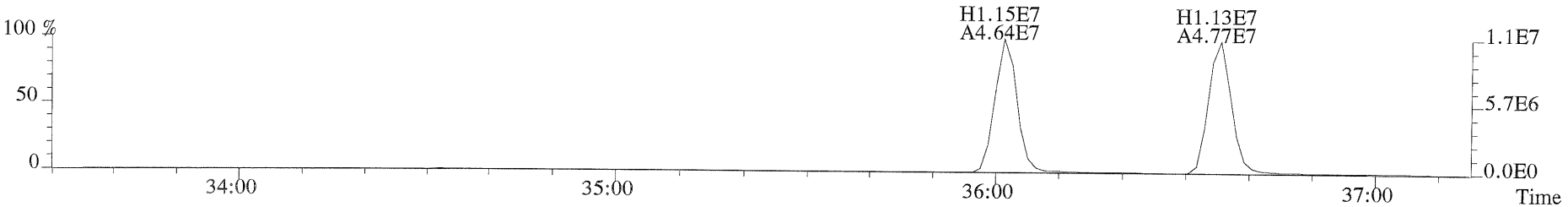
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



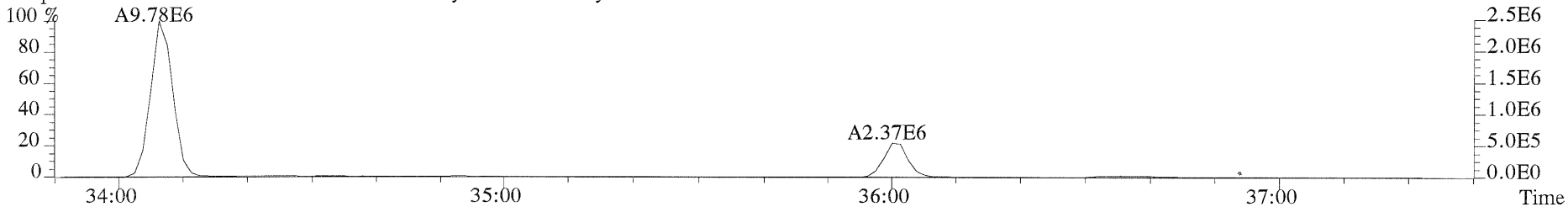
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



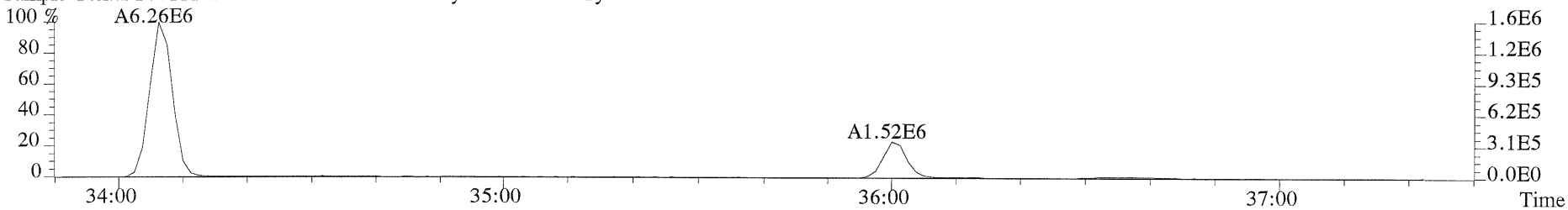
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



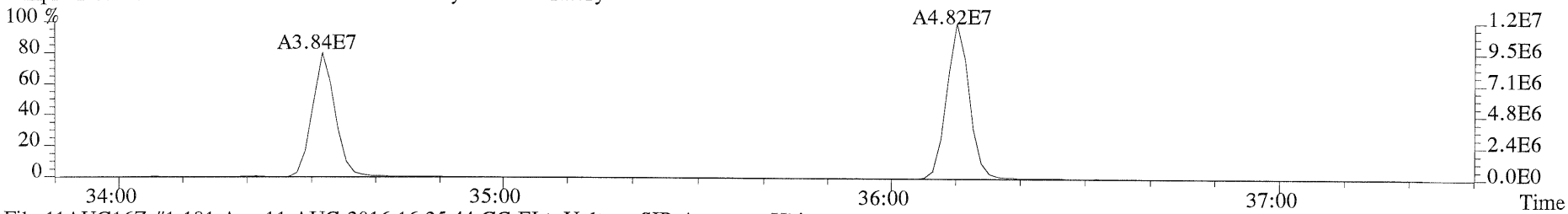
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



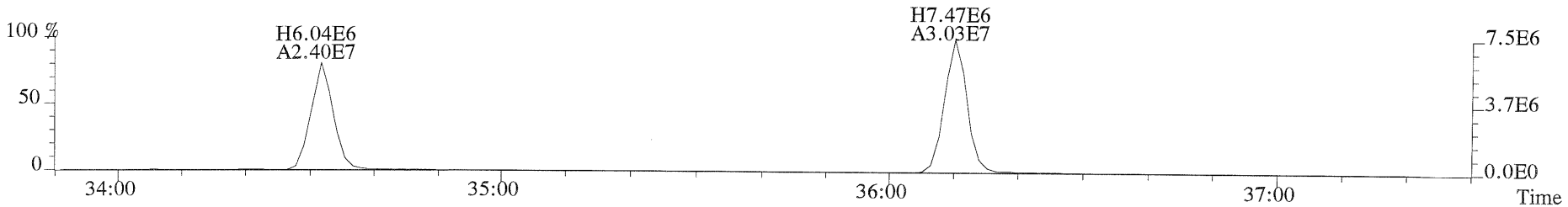
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



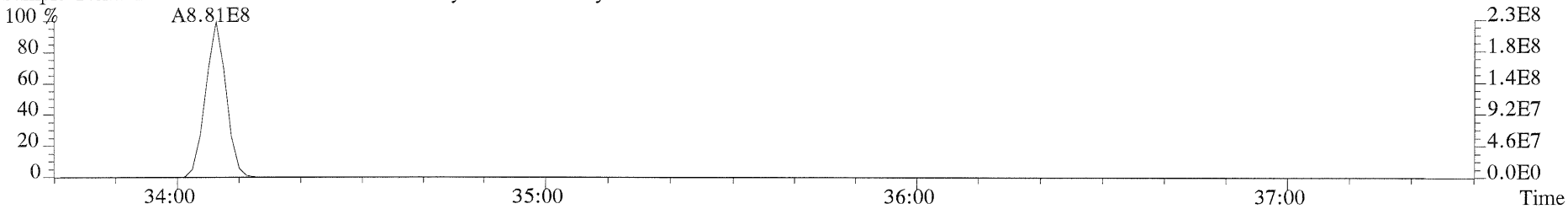
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



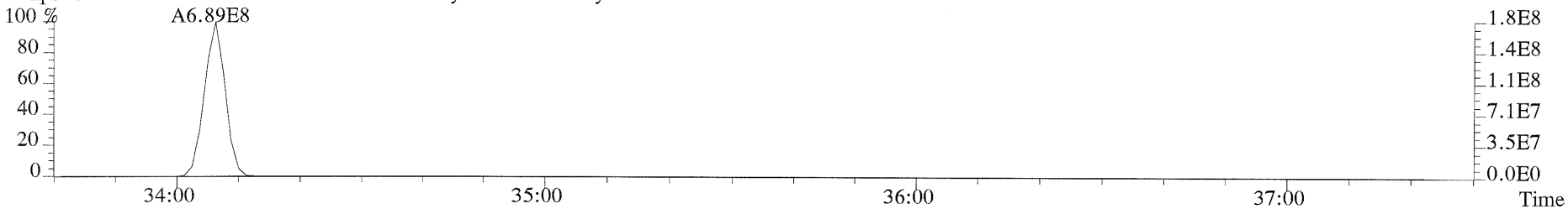
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



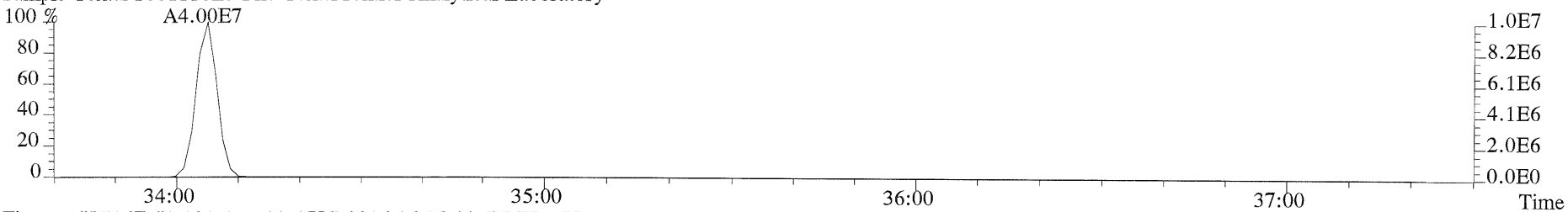
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



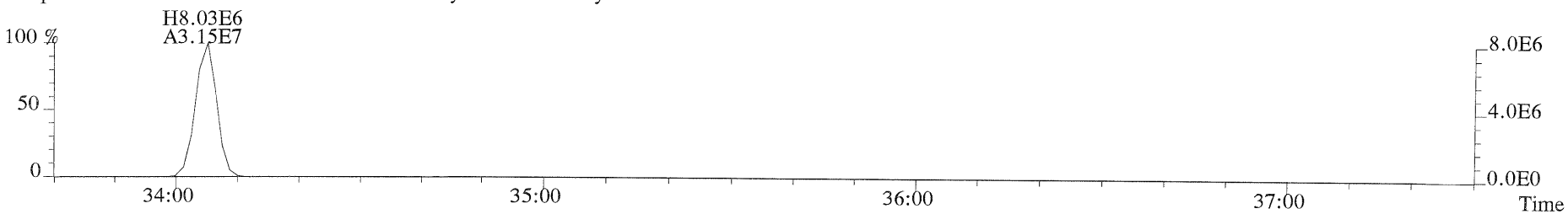
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



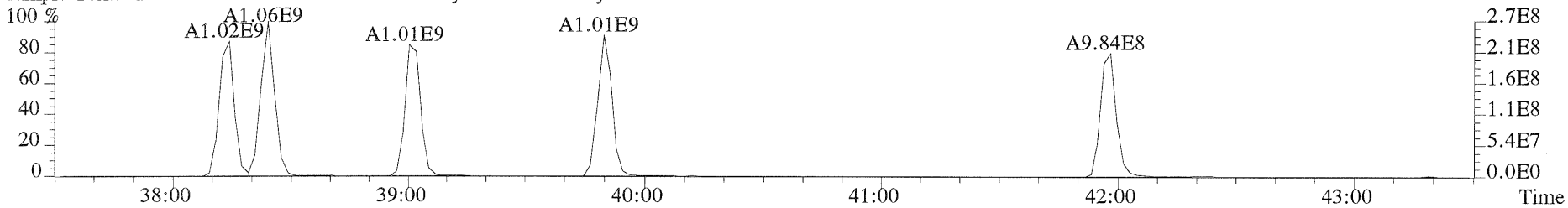
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



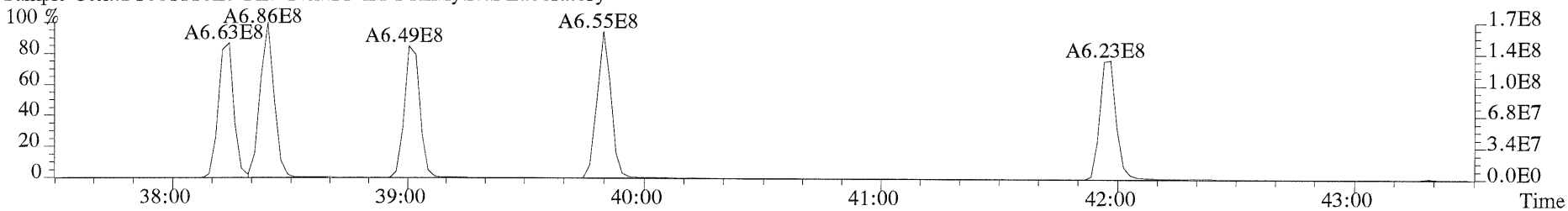
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



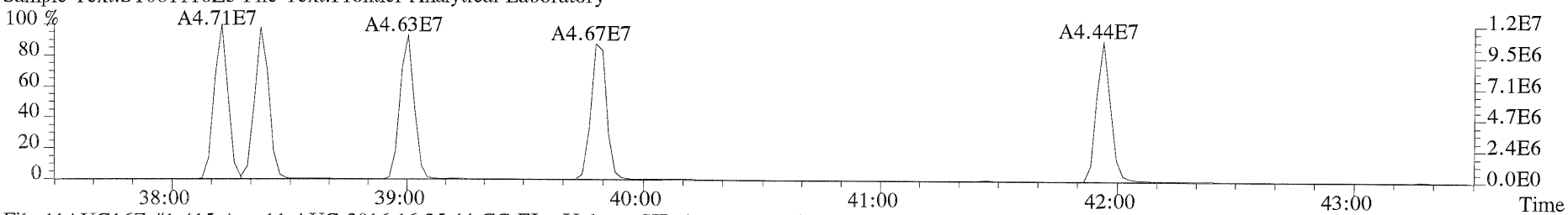
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



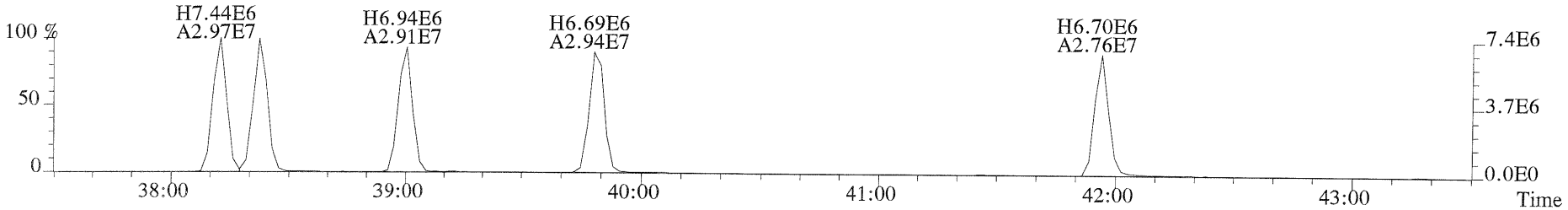
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



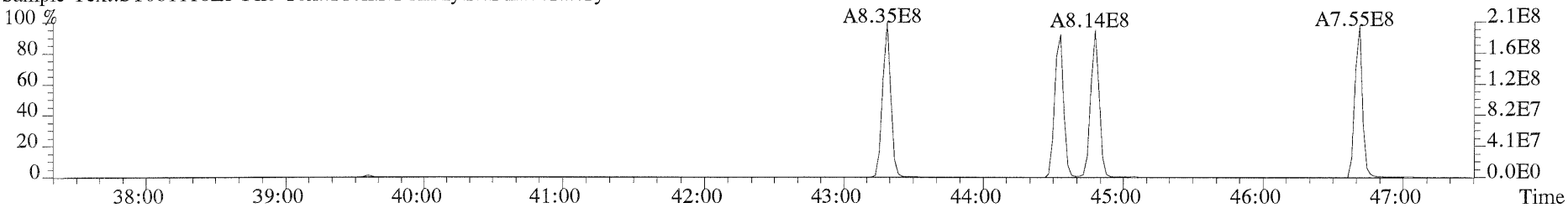
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



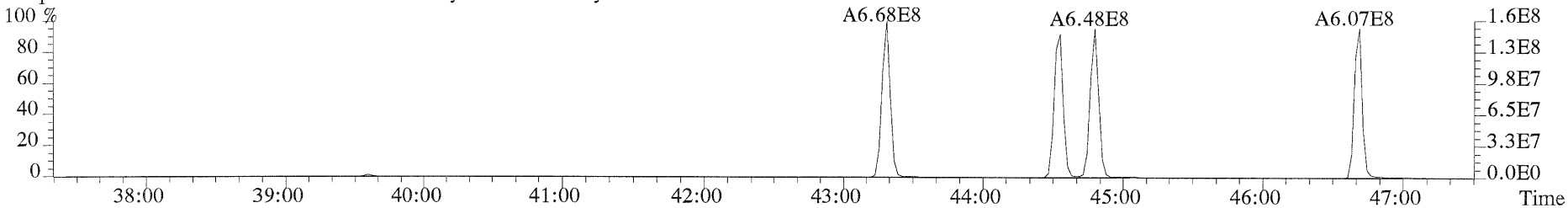
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



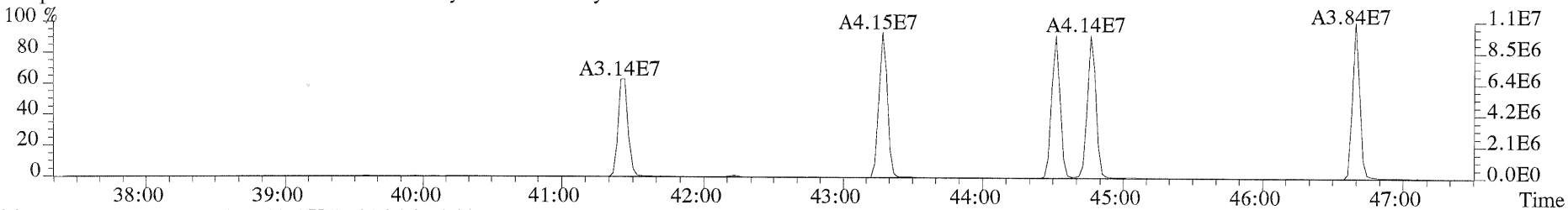
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



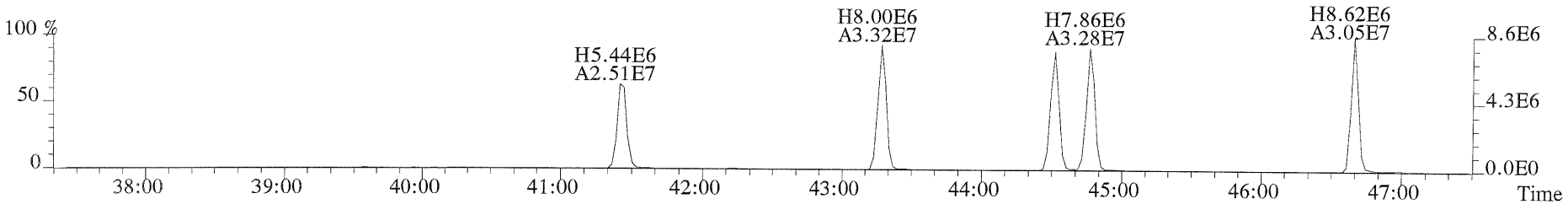
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



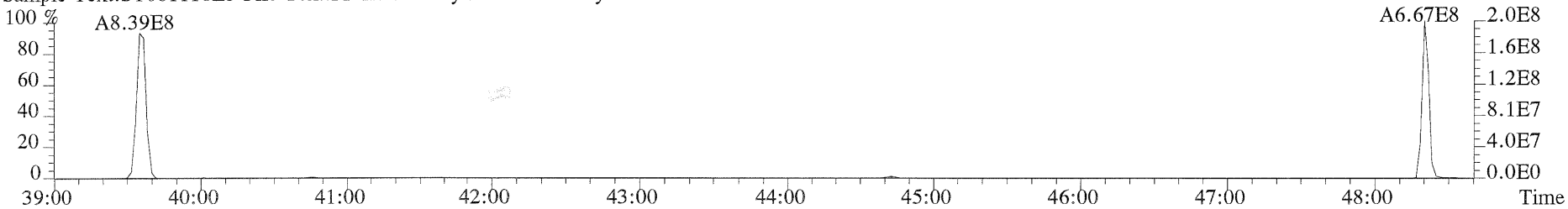
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



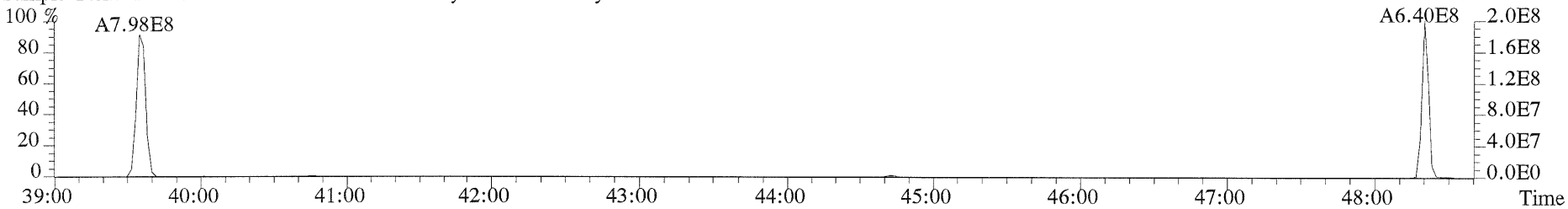
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



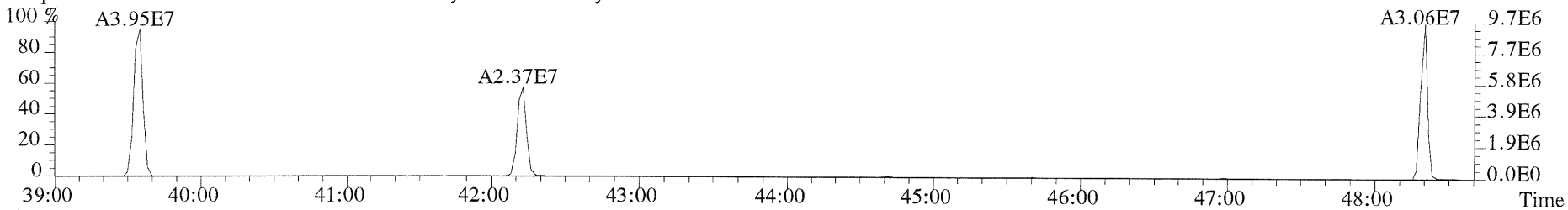
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



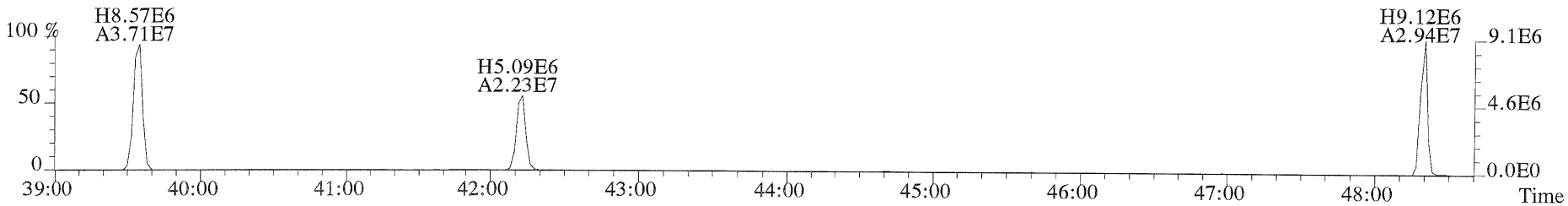
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



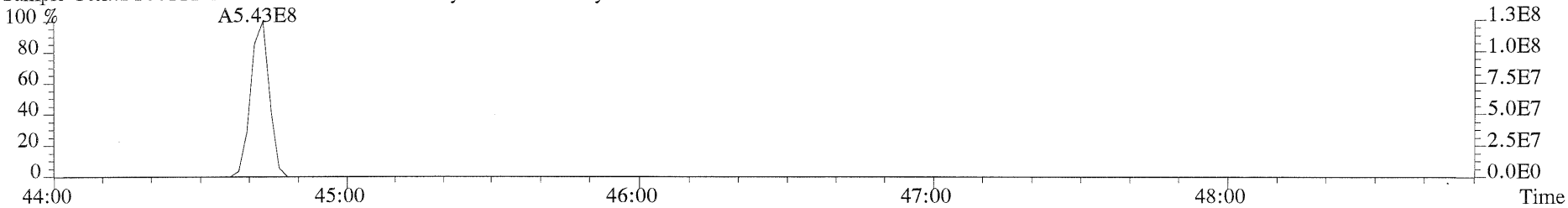
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



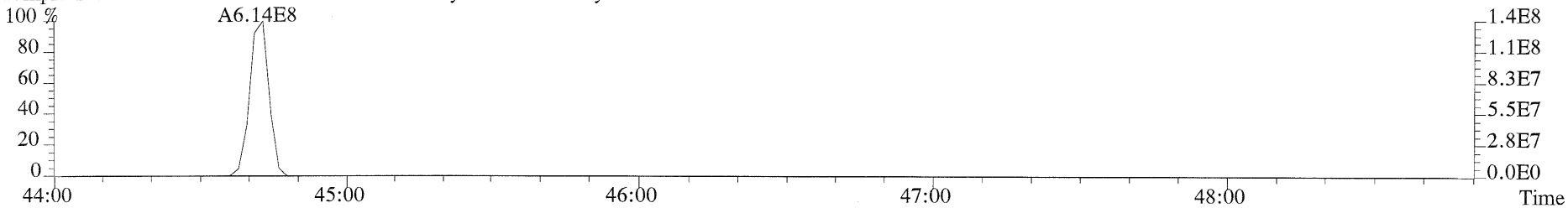
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



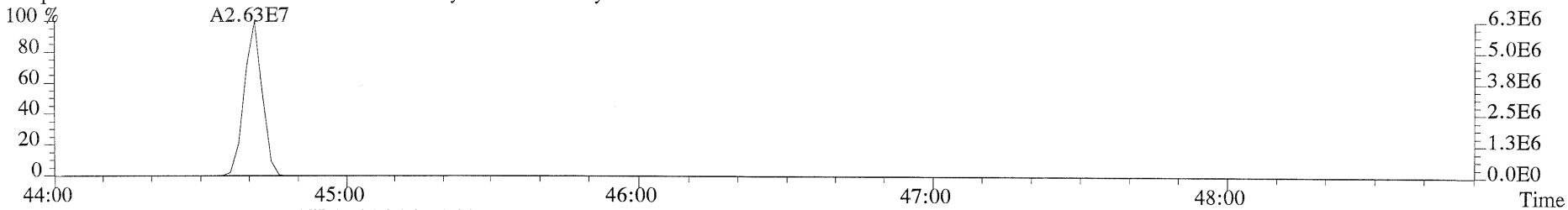
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



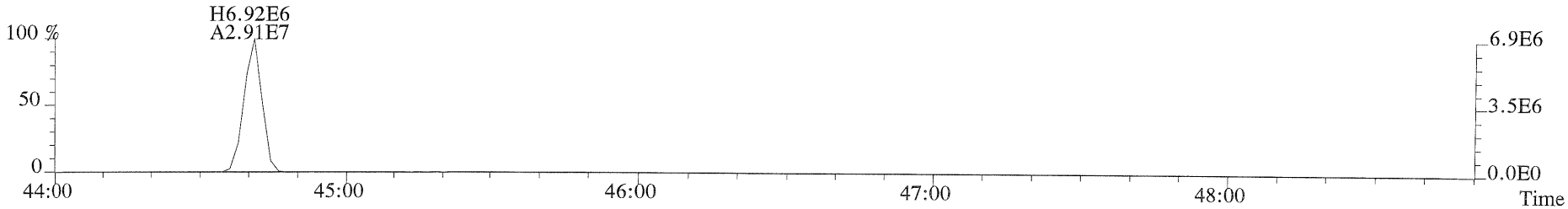
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



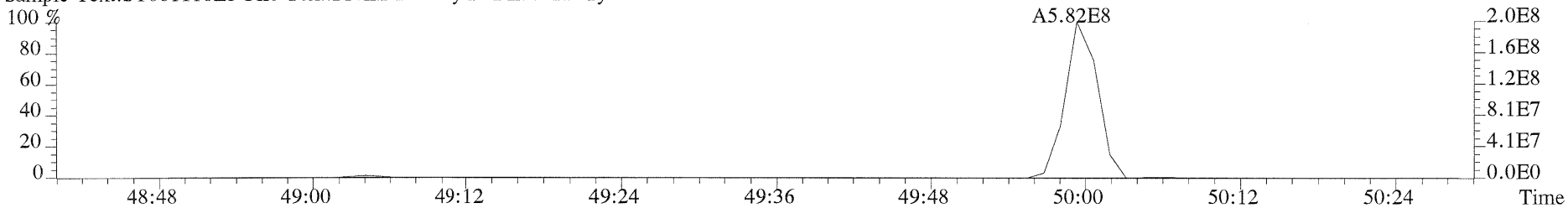
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



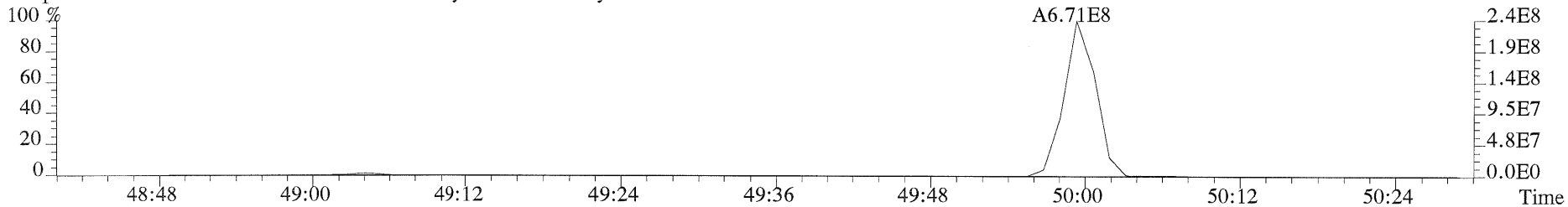
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



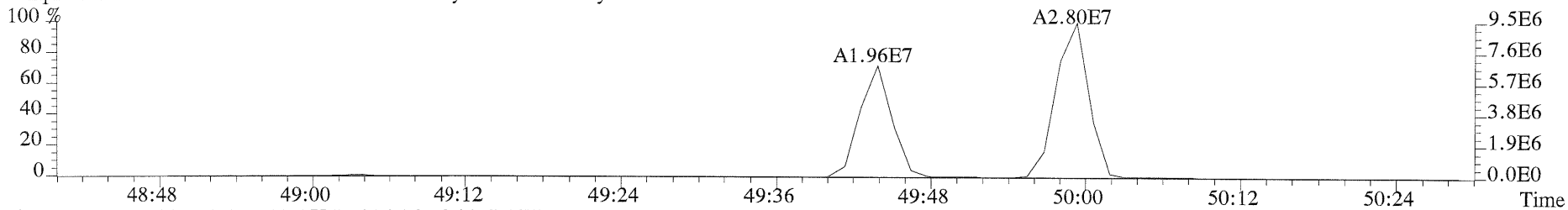
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



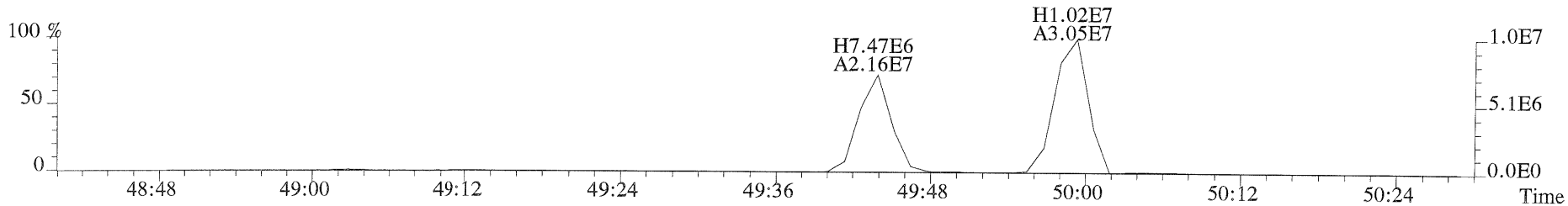
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



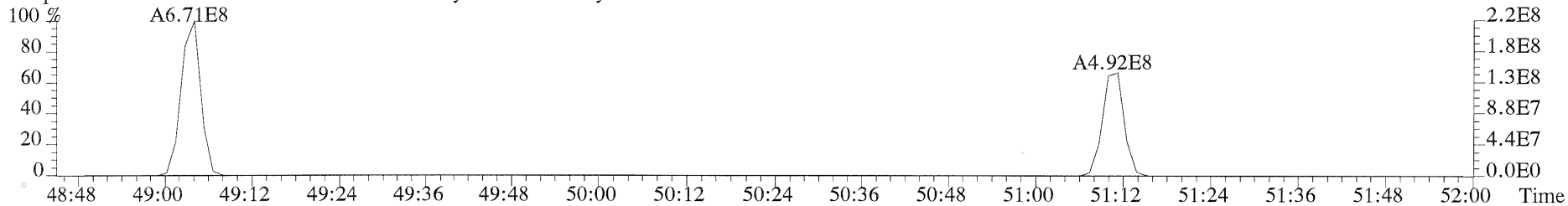
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



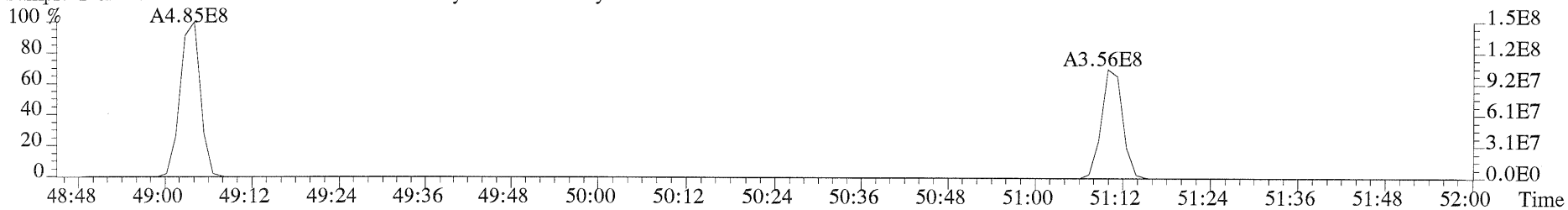
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



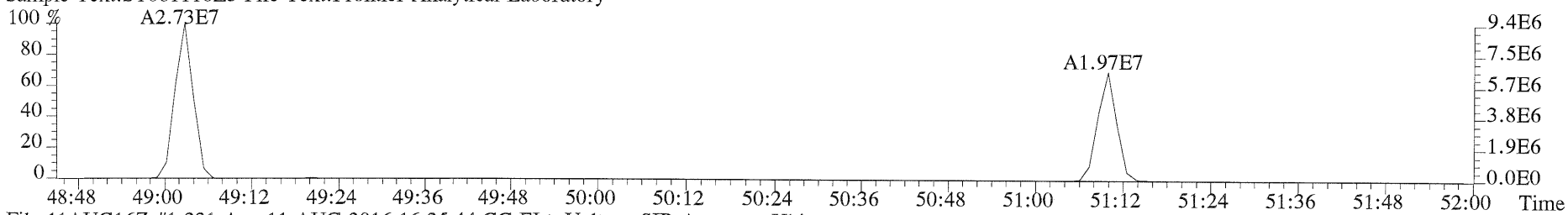
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



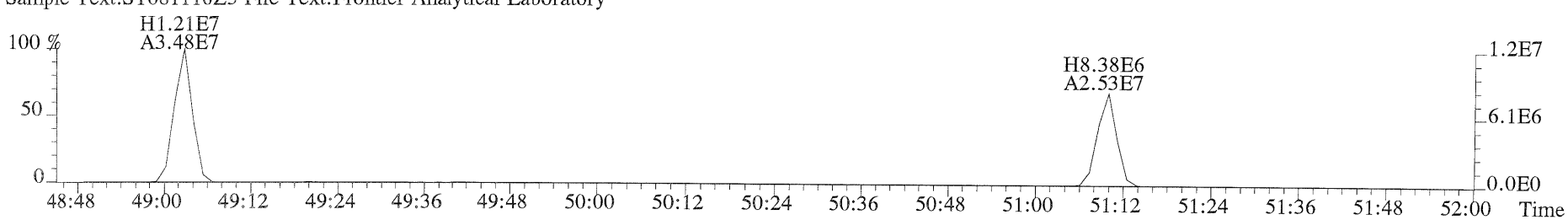
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



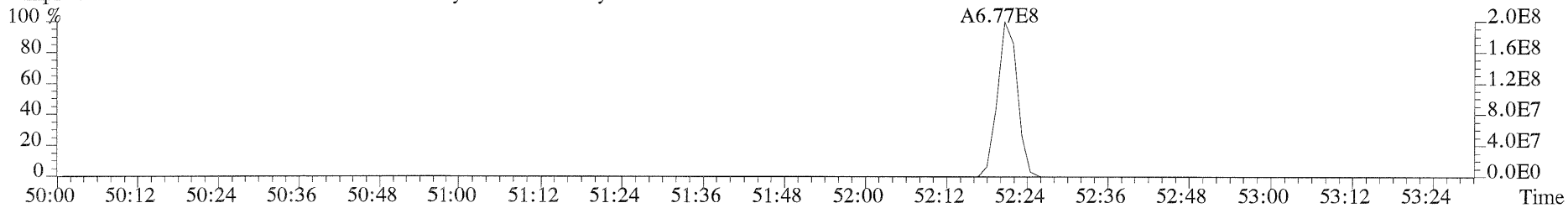
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



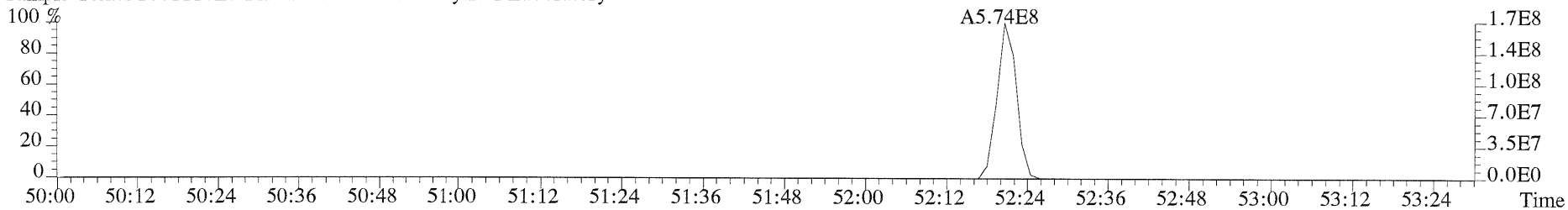
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 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:ST081116Z5 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 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:ST081116Z5 File Text:Frontier Analytical Laboratory



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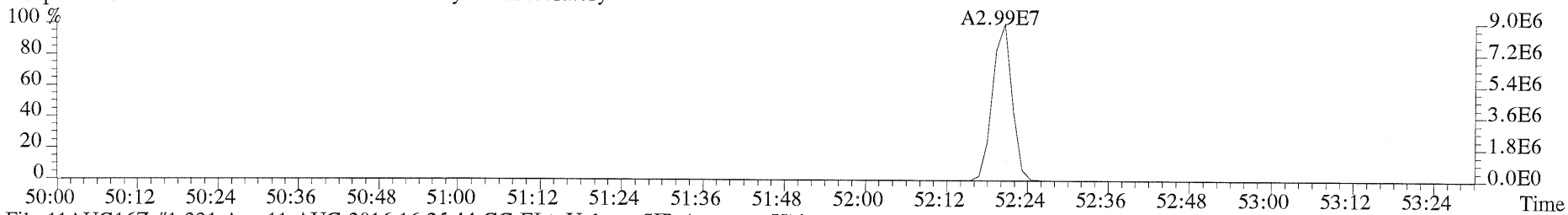
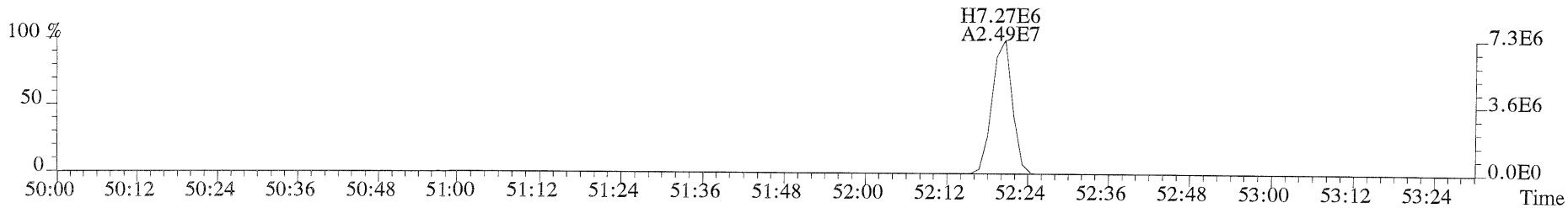
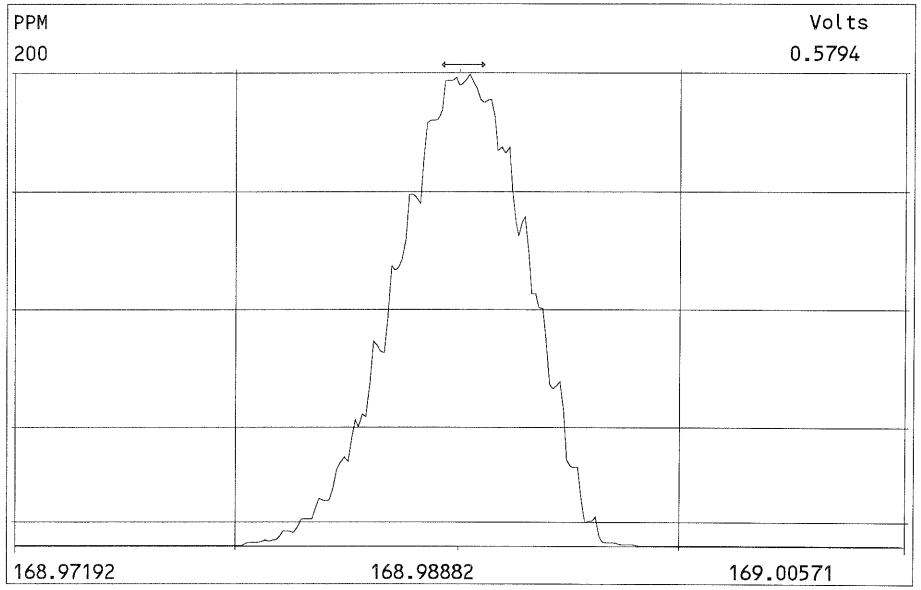
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory

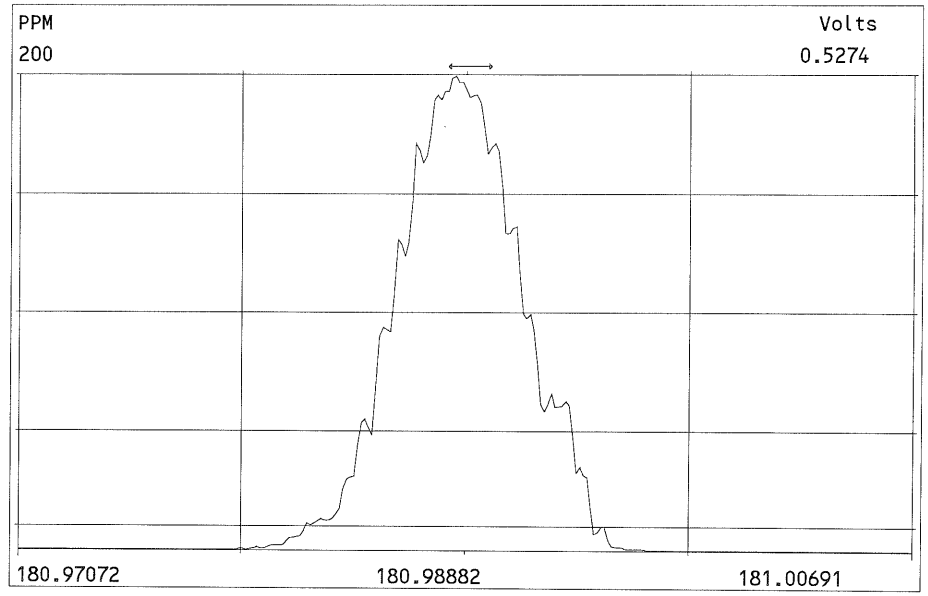


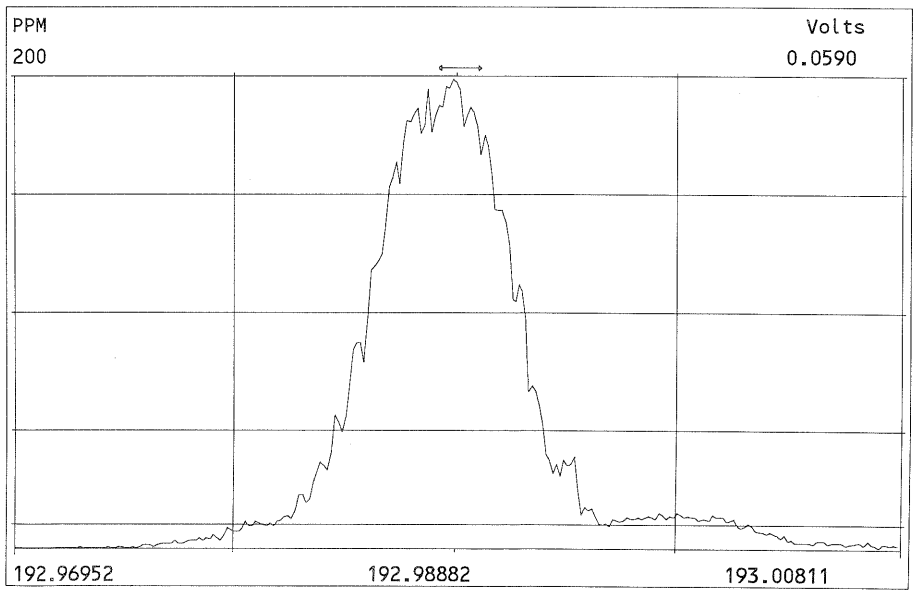
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory

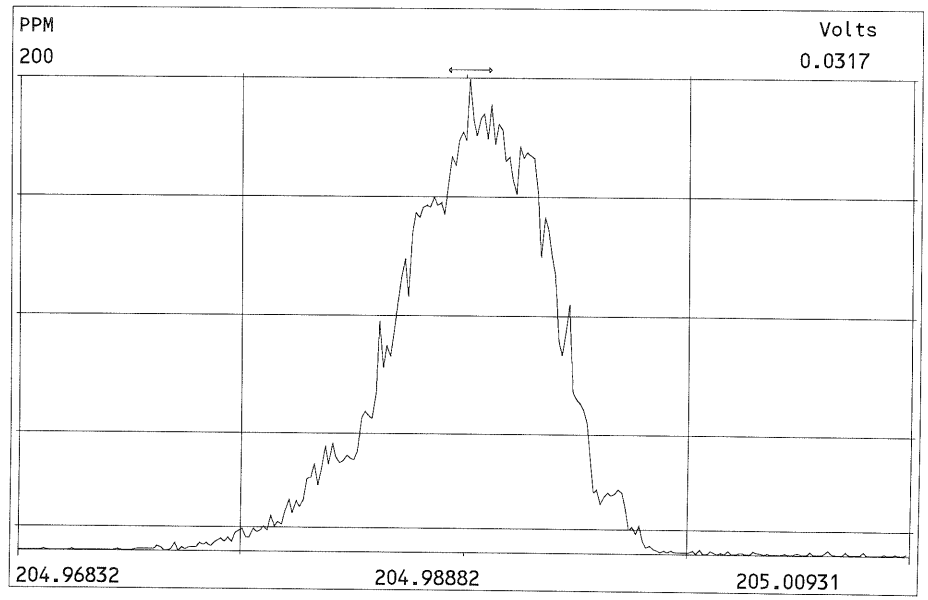


Peak Locate Examination:12-AUG-2016:07:42 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:1 Reference:PFK

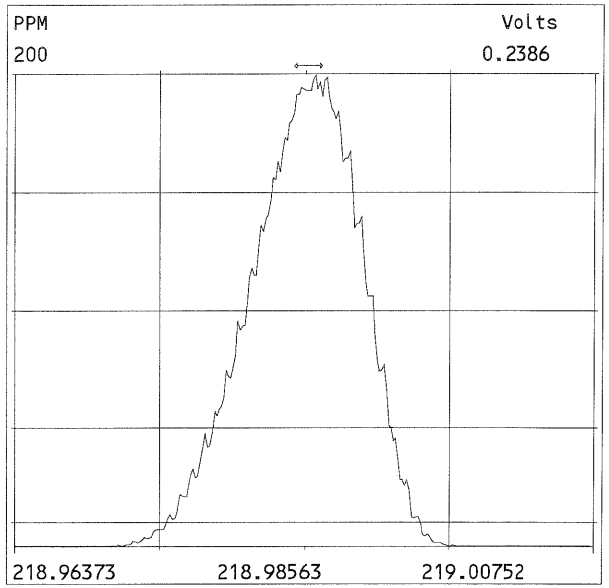


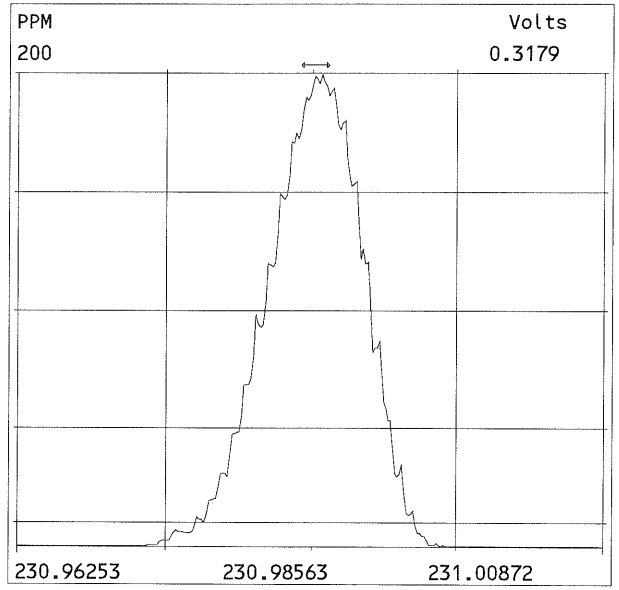


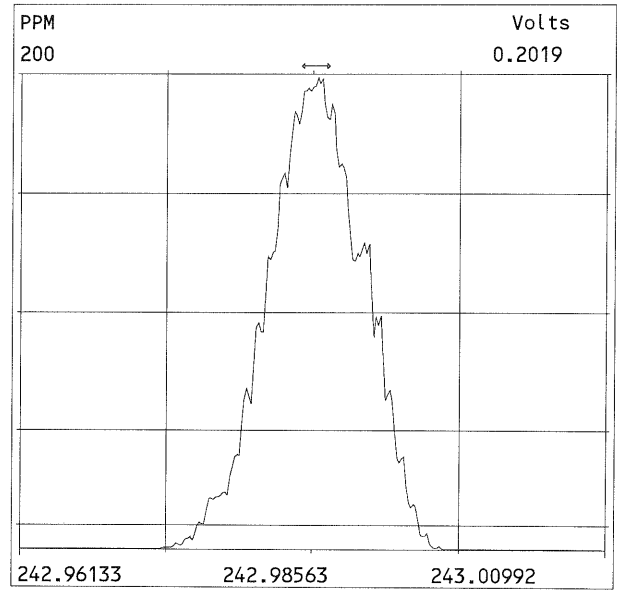


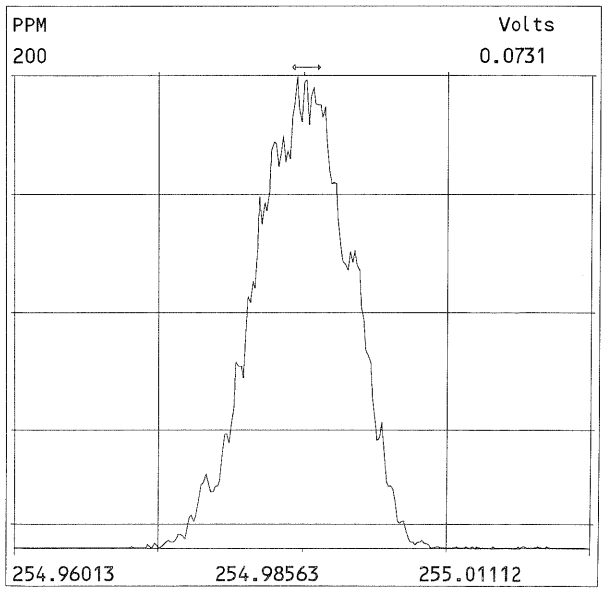


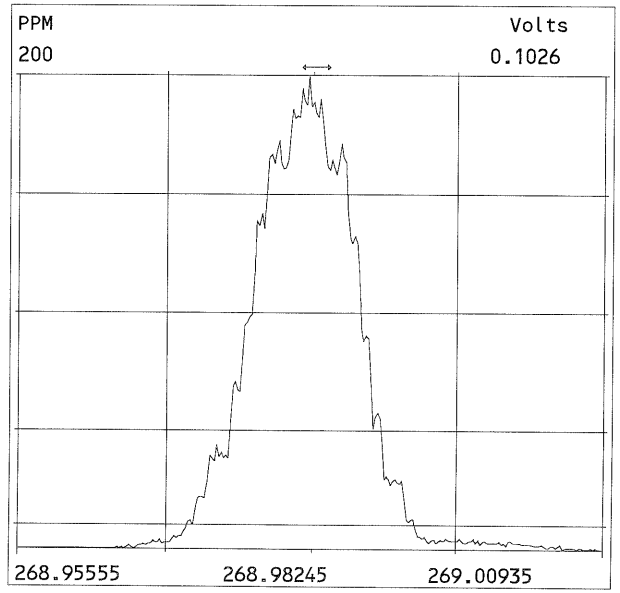
Peak Locate Examination:12-AUG-2016:07:42 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:2 Reference:PFK

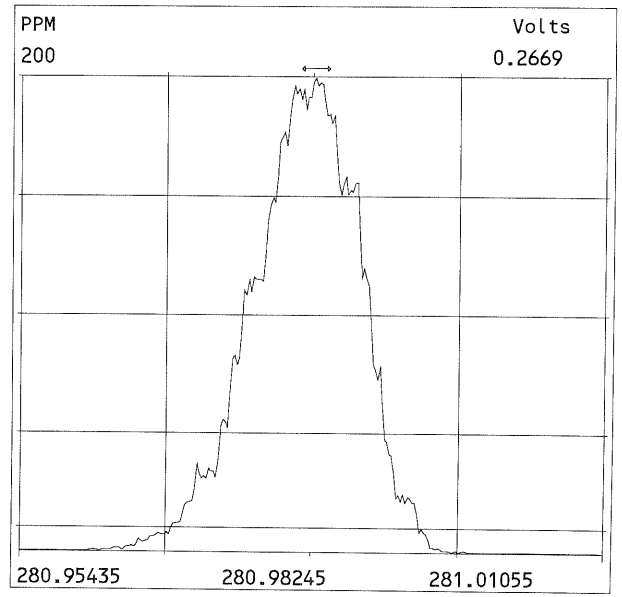




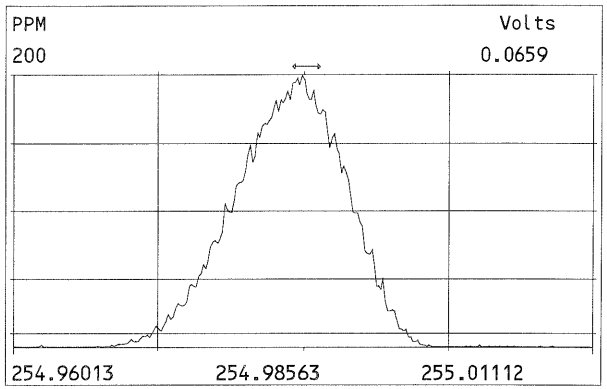


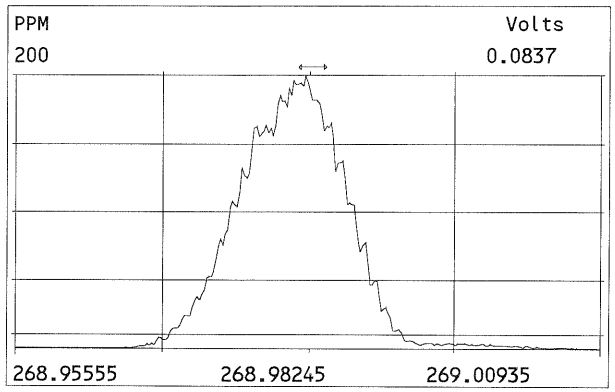


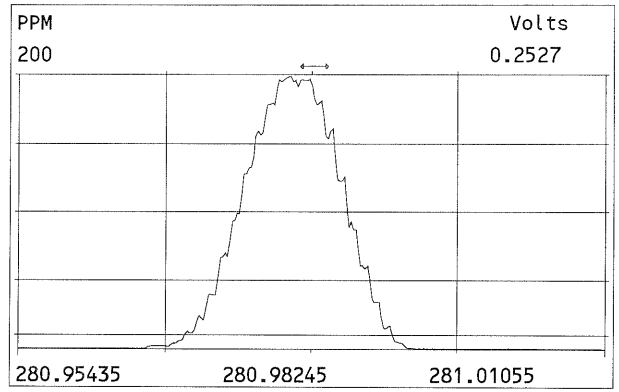


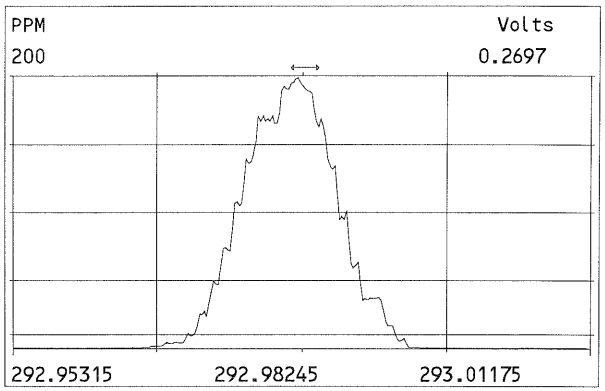


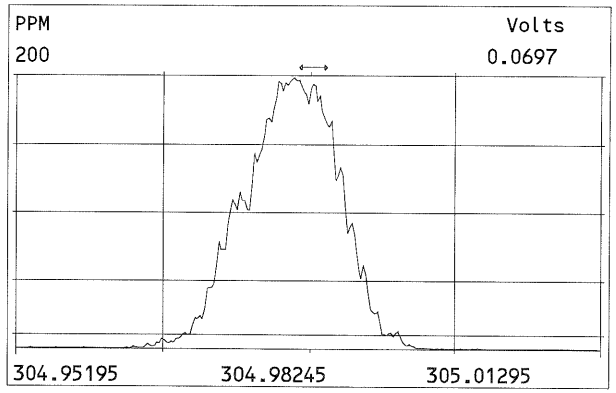
Peak Locate Examination:12-AUG-2016:07:43 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:3 Reference:PFK

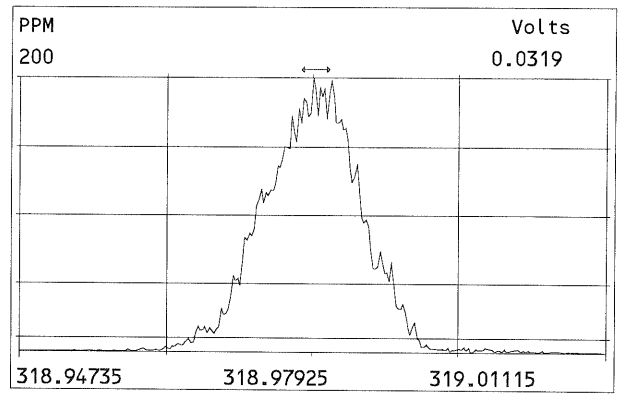


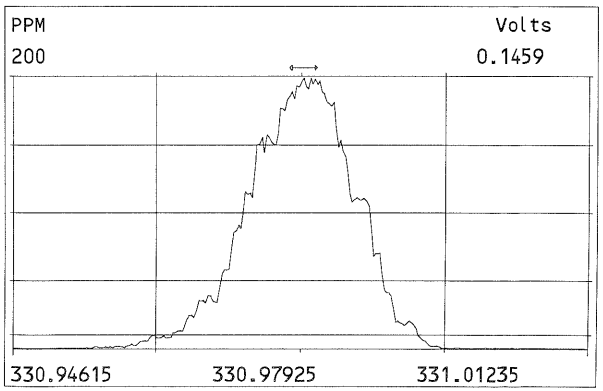


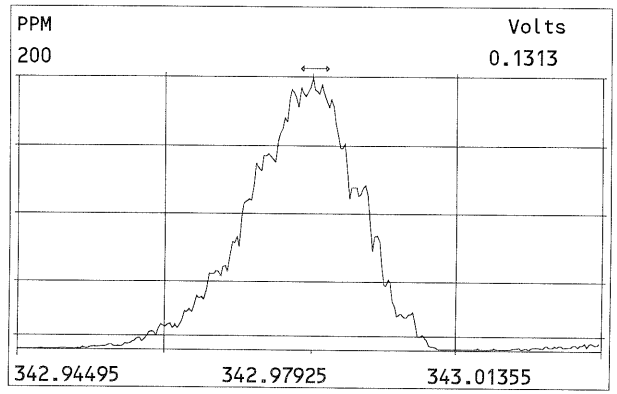




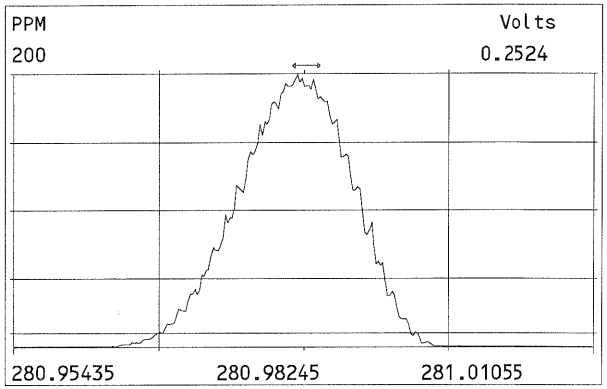


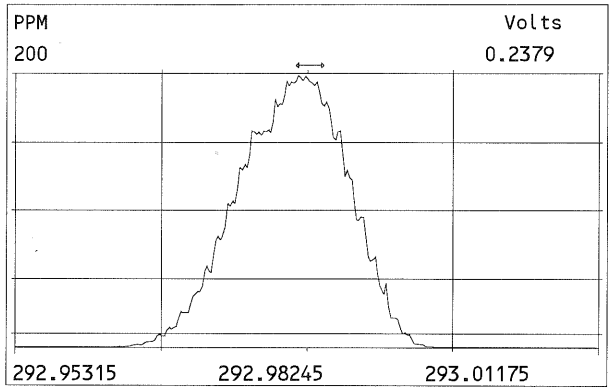


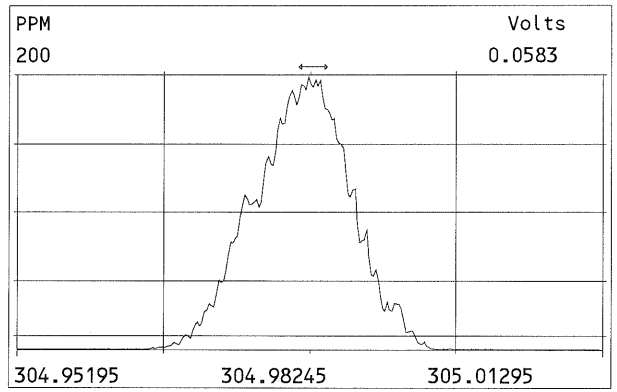


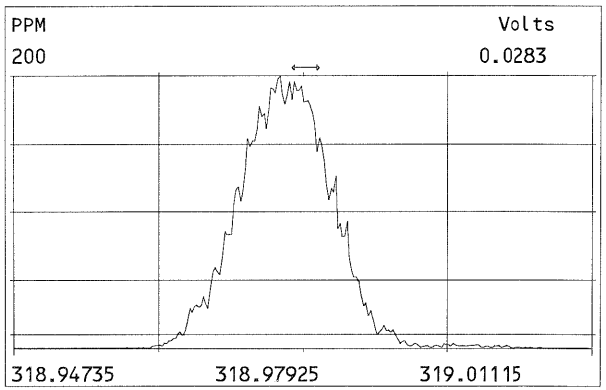


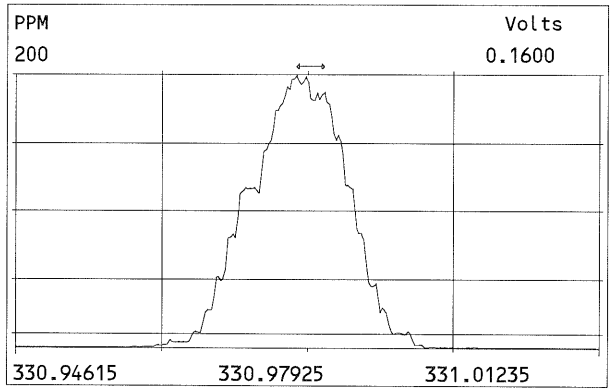
Peak Locate Examination:12-AUG-2016:07:43 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:4 Reference:PFK

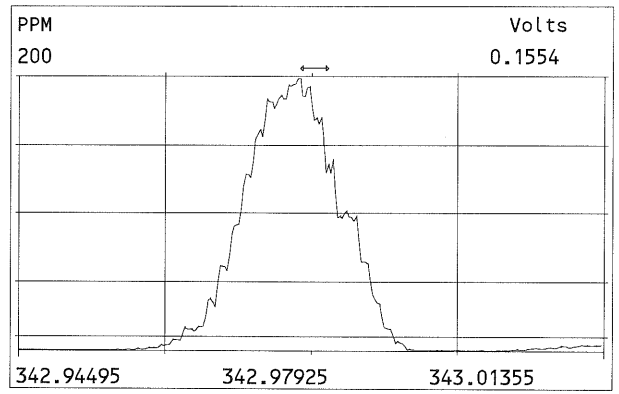


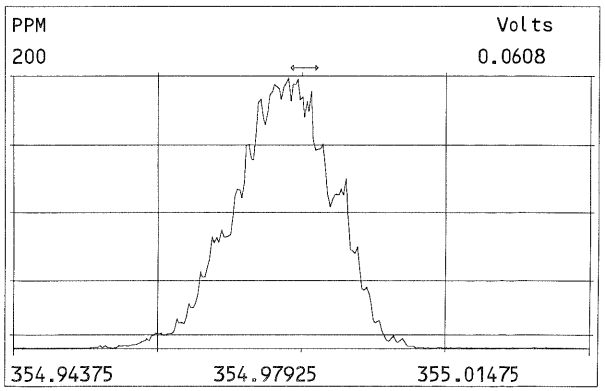


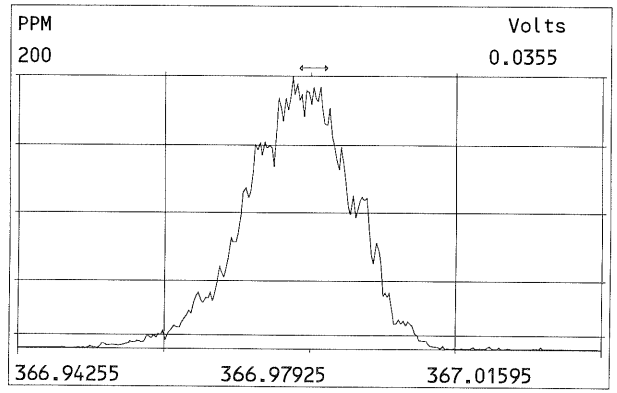


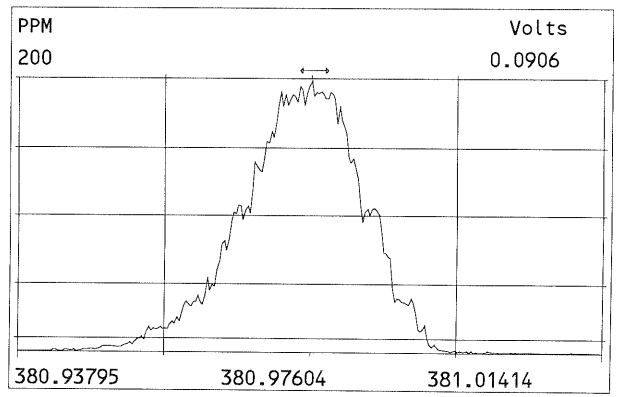




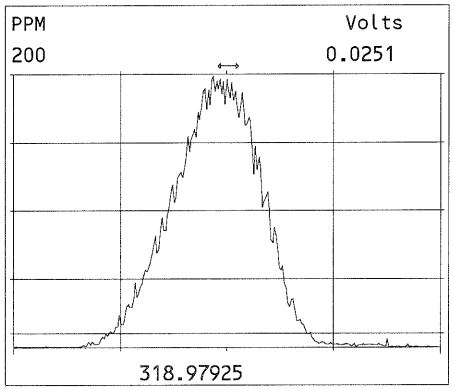


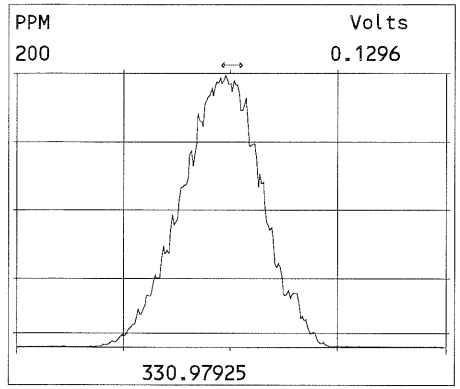


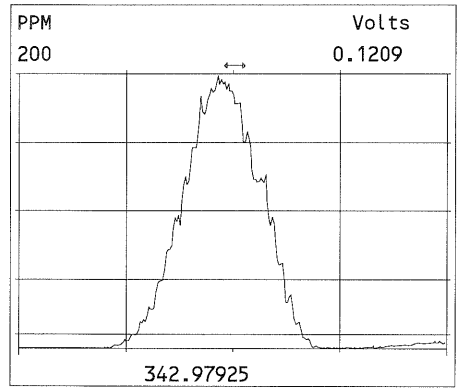


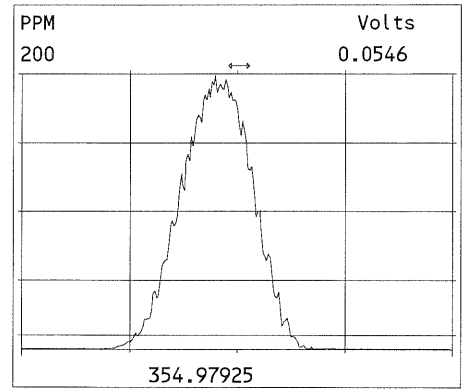


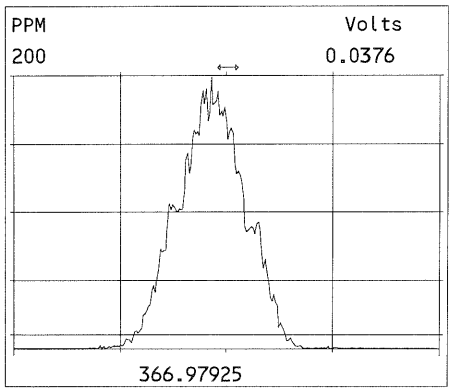
Peak Locate Examination:12-AUG-2016:07:44 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:5 Reference:PFK

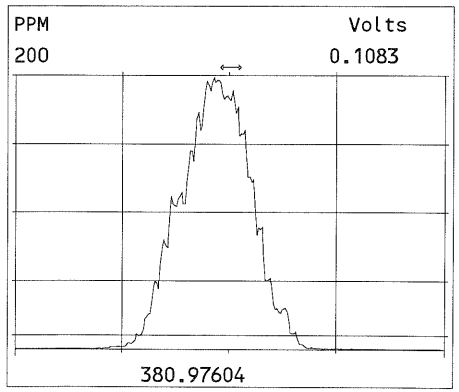


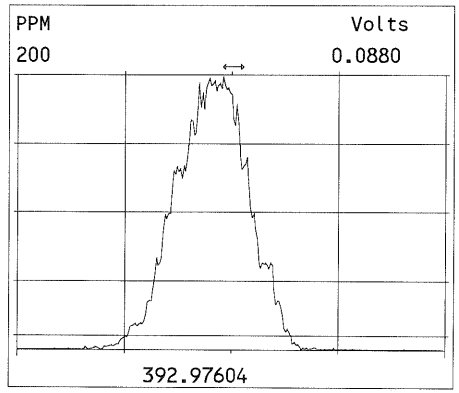


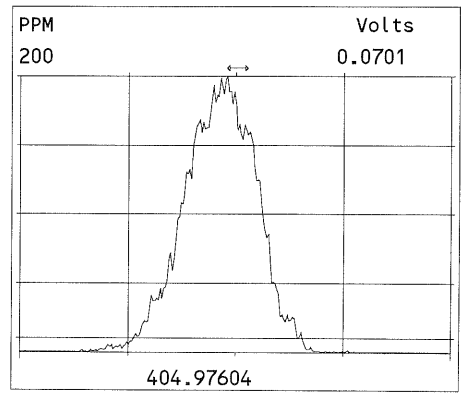


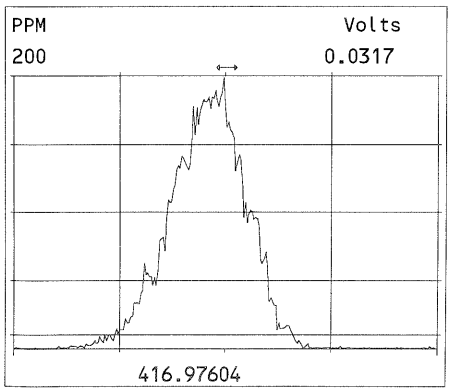


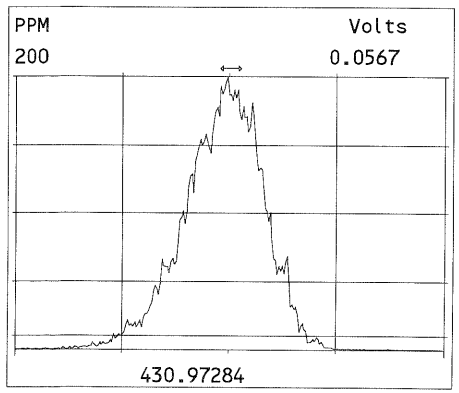


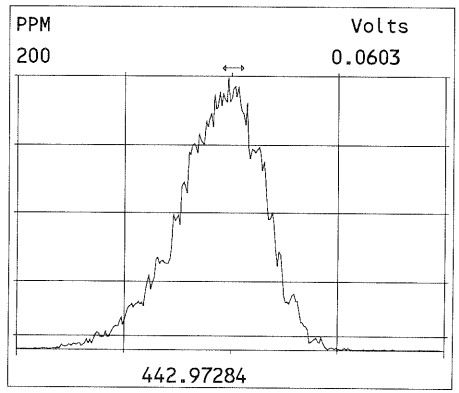




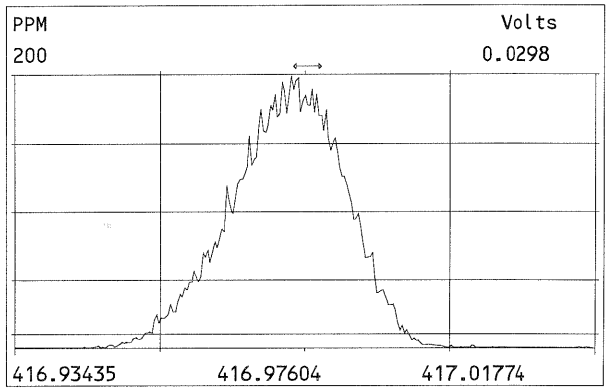


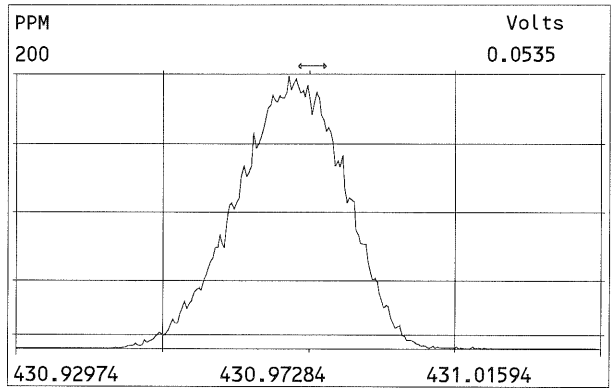


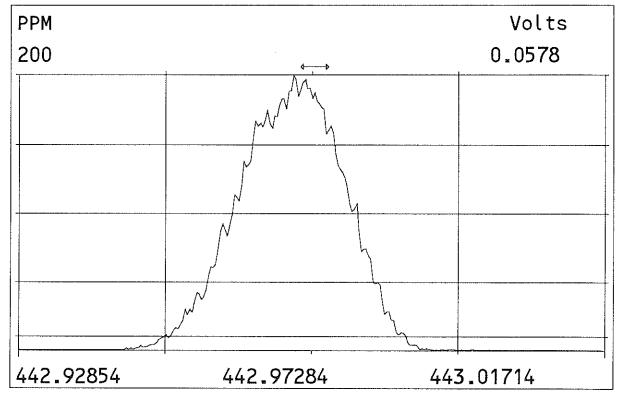


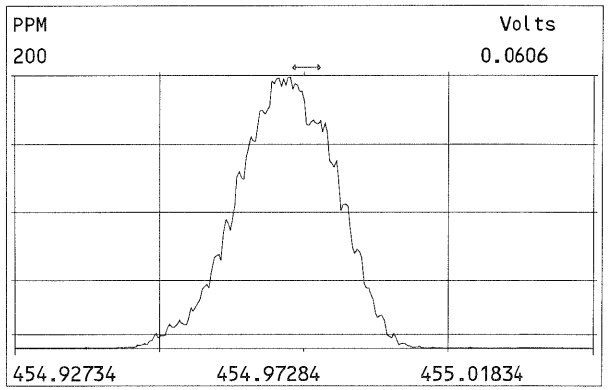


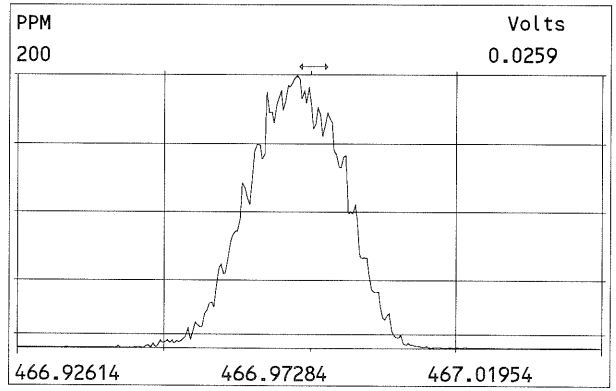
Peak Locate Examination:12-AUG-2016:07:44 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:6 Reference:PFK

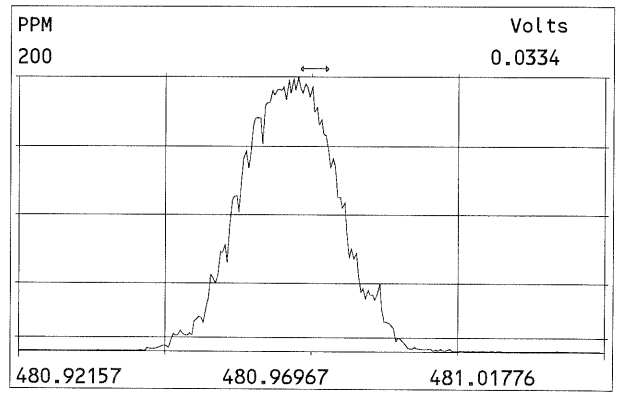


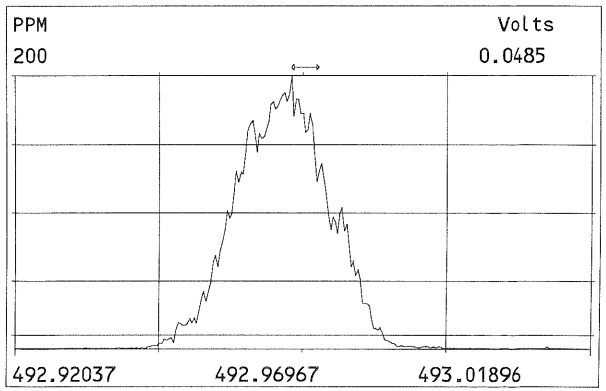


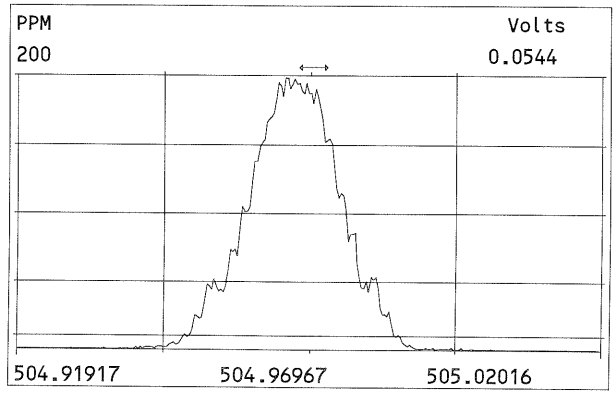


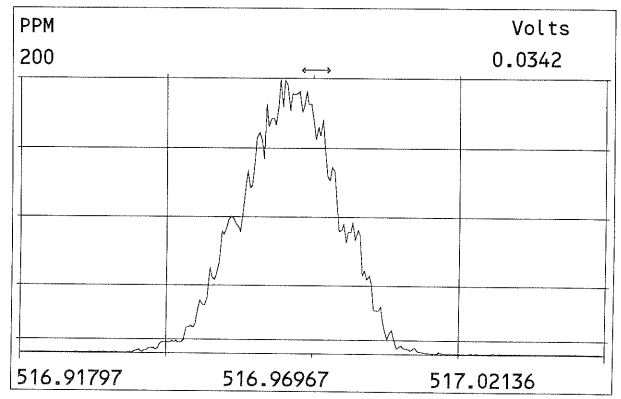












USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 19SEP16Z Sam:1 Analysis Date: 19-SEP-16 14:30:56

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.11	2.66-3.60	y	51.5	37.5 - 62.5
PCB-3	M/M+2	3.08	2.66-3.60	y	54.7	37.5 - 62.5
PCB-4	M/M+2	1.52	1.33-1.79	y	47.6	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	50.7	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	52.5	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	50.1	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	54.6	37.5 - 62.5
PCB-77	M/M+2	0.78	0.65-0.89	y	50.8	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	50.6	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	54.8	37.5 - 62.5
PCB-105	M+2/M+4	1.56	1.32-1.78	y	48.2	37.5 - 62.5
PCB-114	M+2/M+4	1.55	1.32-1.78	y	49.7	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	51.8	37.5 - 62.5
PCB-123	M+2/M+4	1.55	1.32-1.78	y	52.0	37.5 - 62.5
PCB-126	M+2/M+4	1.55	1.32-1.78	y	50.8	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	52.7	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	53.8	37.5 - 62.5
PCB-157	M+2/M+4	1.30	1.05-1.43	y	54.9	37.5 - 62.5
PCB-167	M+2/M+4	1.27	1.05-1.43	y	53.7	37.5 - 62.5
PCB-169	M+2/M+4	1.29	1.05-1.43	y	53.2	37.5 - 62.5
PCB-188	M+2/M+4	1.07	0.89-1.21	y	56.5	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	52.8	37.5 - 62.5
PCB-202	M+2/M+4	0.89	0.76-1.02	y	51.9	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	53.6	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	53.8	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	53.6	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	51.2	37.5 - 62.5

Analyst: [illegible] Date: 9/30/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 19SEP16Z Sam:1 Analysis Date: 19-SEP-16 14:30:56

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.24	2.66-3.60	y	90.8	50.0 - 145
13C-PCB-3	M/M+2	3.19	2.66-3.60	y	78.7	50.0 - 145
13C-PCB-4	M/M+2	1.57	1.33-1.79	y	97.3	50.0 - 145
13C-PCB-15	M/M+2	1.61	1.33-1.79	y	87.8	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	81.1	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	104	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	107	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	110	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	106	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	76.8	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	117	50.0 - 145
13C-PCB-114	M+2/M+4	1.57	1.32-1.78	y	118	50.0 - 145
13C-PCB-118	M+2/M+4	1.60	1.32-1.78	y	118	50.0 - 145
13C-PCB-123	M+2/M+4	1.58	1.32-1.78	y	113	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	111	50.0 - 145
13C-PCB-155	M+2/M+4	1.25	1.05-1.43	y	82.5	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	97.9	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	97.7	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	98.4	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	98.7	50.0 - 145
13C-PCB-188	M+2/M+4	1.08	0.89-1.21	y	85.4	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	78.7	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	74.7	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	90.1	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	78.4	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	97.3	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	75.0	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	110	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	101	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	90.5	75.0 - 125

Analyst: [signature] Date: 9/20/16

FAL ID: ST091916Z1 Filename: 19SEP16Z Sam:1 Acquired: 19-SEP-16 14:30:56 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R160816B ConCal: ST091916Z1 EndCal: ST091916Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.92e+07	3.11 y	14:26	1.05	51.5		2.50	-	-	*	-
13C-PCB-1	9.10e+07	3.24 y	14:25	1.14	90.8		2.50				90.8
PCB-3	4.40e+07	3.08 y	16:53	1.05	54.7		2.50	-	-	*	-
13C-PCB-3	7.69e+07	3.19 y	16:52	1.11	78.7		2.50				78.7
PCB-4	3.13e+07	1.52 y	18:06	1.14	47.6		2.50	-	-	*	-
13C-PCB-4	5.80e+07	1.57 y	18:04	0.68	97.3		2.50				97.3
PCB-15	4.38e+07	1.56 y	23:40	1.09	50.7		2.50	-	-	*	-
13C-PCB-15	7.93e+07	1.61 y	23:39	1.02	87.8		2.50				87.8
PCB-19	2.68e+07	1.04 y	21:59	1.16	52.5		2.50	-	-	*	-
13C-PCB-19	4.40e+07	1.07 y	21:58	0.61	81.1		2.50				81.1
13C-PCB-9	8.82e+07	1.61 y	19:46	-	64.5		2.50				
PCB-37	3.81e+07	1.05 y	30:21	1.14	50.1		2.50	-	-	*	-
13C-PCB-37	6.65e+07	1.06 y	30:20	1.38	104		2.50				104
PCB-54	3.57e+07	0.78 y	25:32	1.05	54.6		2.50	-	-	*	-
13C-PCB-54	6.22e+07	0.80 y	25:29	1.25	107		2.50				107
PCB-104	2.04e+07	1.59 y	29:57	1.14	54.8		2.50	-	-	*	-
13C-PCB-104	3.26e+07	1.59 y	29:56	0.91	76.8		2.50				76.8
13C-PCB-28	7.58e+07	1.05 y	26:36	1.48	110		2.50				110
13C-PCB-52	4.66e+07	0.79 y	28:51	-	56.0		2.50				
PCB-81	3.08e+07	0.78 y	36:06	1.14	50.6		2.50	-	-	*	-
13C-PCB-81	5.31e+07	0.79 y	36:05	1.27	106		2.50				106
PCB-77	3.07e+07	0.78 y	36:40	1.10	50.8		2.50	-	-	*	-
13C-PCB-77	5.49e+07	0.81 y	36:40	1.27	110		2.50				110
PCB-155	2.06e+07	1.27 y	34:07	1.11	52.7		2.50	-	-	*	-
13C-PCB-155	3.53e+07	1.25 y	34:06	1.09	82.5		2.50				82.5
13C-PCB-111	5.00e+07	1.61 y	36:12	1.25	101		2.50				101
13C-PCB-101	3.93e+07	1.61 y	34:34	-	53.9		2.50				
PCB-123	2.62e+07	1.55 y	38:17	1.05	52.0		2.50	-	-	*	-
13C-PCB-123	4.78e+07	1.58 y	38:15	1.20	113		2.50				113
PCB-118	3.03e+07	1.56 y	38:27	1.07	51.8		2.50	-	-	*	-
13C-PCB-118	5.48e+07	1.60 y	38:25	1.31	118		2.50				118
PCB-114	2.76e+07	1.55 y	39:04	1.08	49.7		2.50	-	-	*	-
13C-PCB-114	5.13e+07	1.57 y	39:03	1.23	118		2.50				118
PCB-105	2.65e+07	1.56 y	39:54	1.08	48.2		2.50	-	-	*	-
13C-PCB-105	5.10e+07	1.59 y	39:52	1.24	117		2.50				117
PCB-126	2.48e+07	1.55 y	42:02	1.07	50.8		2.50	-	-	*	-
13C-PCB-126	4.58e+07	1.60 y	42:02	1.17	111		2.50				111
PCB-167	2.26e+07	1.27 y	43:23	0.98	53.7		2.50	-	-	*	-
13C-PCB-167	4.30e+07	1.27 y	43:21	1.24	98.4		2.50				98.4
PCB-156	2.22e+07	1.27 y	44:37	1.01	53.8		2.50	-	-	*	-
13C-PCB-156	4.07e+07	1.29 y	44:35	1.18	97.9		2.50				97.9
PCB-157	2.23e+07	1.30 y	44:52	0.96	54.9		2.50	-	-	*	-
13C-PCB-157	4.22e+07	1.27 y	44:50	1.22	97.7		2.50				97.7
PCB-169	2.05e+07	1.29 y	46:47	1.00	53.2		2.50	-	-	*	-
13C-PCB-169	3.85e+07	1.27 y	46:45	1.11	98.7		2.50				98.7
PCB-188	2.28e+07	1.07 y	39:37	1.09	56.5		2.50	-	-	*	-
13C-PCB-188	3.68e+07	1.08 y	39:36	1.22	85.4		2.50				85.4
PCB-189	1.62e+07	1.05 y	48:27	1.14	52.8		2.50	-	-	*	-
13C-PCB-189	2.69e+07	1.07 y	48:27	0.97	78.7		2.50				78.7
PCB-202	1.26e+07	0.89 y	44:45	1.05	51.9		2.50	-	-	*	-
13C-PCB-202	2.31e+07	0.92 y	44:44	0.88	74.7		2.50				74.7
13C-PCB-178	2.46e+07	1.06 y	42:15	0.77	90.5		2.50				90.5
13C-PCB-138	3.53e+07	1.28 y	41:29	-	50.5		2.50				

FAL ID: ST091916Z1 Filename: 19SEP16Z Sam:1 Acquired: 19-SEP-16 14:30:56 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R160816B ConCal: ST091916Z1 EndCal: ST091916Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	2.06e+07	0.89	y	50:10	1.02	53.6	2.50	-	-	*	-
13C-PCB-205	3.77e+07	0.90	y	50:10	1.38	90.1	2.50				90.1
PCB-208	1.93e+07	1.36	y	49:12	0.93	53.6	2.50	-	-	*	-
13C-PCB-208	3.87e+07	0.80	y	49:11	1.31	97.3	2.50				97.3
PCB-206	1.22e+07	1.37	y	51:27	0.94	53.8	2.50	-	-	*	-
13C-PCB-206	2.41e+07	0.79	y	51:27	1.01	78.4	2.50				78.4
PCB-209	1.72e+07	1.20	y	52:45	1.10	51.2	2.50	-	-	*	-
13C-PCB-209	3.04e+07	1.21	y	52:44	1.34	75.0	2.50				75.0
13C-PCB-194	3.03e+07	0.91	y	49:55	-	60.2	2.50				

Analyst: _____ Date: 9/20/16

Frontier Analytical Laboratory - Acquisition Log

Run Name:19SEP16Z Instrument: FAL4 GC: DB1 Experiment:1668PCB

Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
19SEP16Z	1	ST091916Z1	1668 CS3 R160816B	19-SEP-16 14:30:56	ST091916Z1	ST091916Z2	BS
19SEP16Z	2	SS091916Z1	Daily 209 160711B	19-SEP-16 15:27:23	ST091916Z1	ST091916Z2	BS
19SEP16Z	3	03849-001-0001-OPR	OPR	19-SEP-16 16:23:52	ST091916Z1	ST091916Z2	BS
19SEP16Z	4	03849-001-0001-MB	Method Blank	19-SEP-16 17:20:19	ST091916Z1	ST091916Z2	BS
19SEP16Z	5	10146-001-0001-SA	LDW-BA-SC-ENR+AC-CA-S010	19-SEP-16 18:16:48	ST091916Z1	ST091916Z2	BS
19SEP16Z	6	10146-002-0001-SA	LDW-BA-SC-ENR+AC-CB-S010*	19-SEP-16 19:13:16	ST091916Z1	ST091916Z2	BS
19SEP16Z	7	10146-003-0001-SA	LDW-BA-SC-ENR+AC-CC-S010	19-SEP-16 20:09:44	ST091916Z1	ST091916Z2	BS
19SEP16Z	8	10146-004-0001-SA	LDW-BA-SC-ENR-CA-S010	19-SEP-16 21:06:11	ST091916Z1	ST091916Z2	BS
19SEP16Z	9	10146-005-0001-SA	LDW-BA-SC-ENR-CB-S010*	19-SEP-16 22:02:38	ST091916Z1	ST091916Z2	BS
19SEP16Z	10	10146-006-0001-SA	LDW-BA-SC-ENR-CC-S010	19-SEP-16 22:59:03	ST091916Z1	ST091916Z2	BS
19SEP16Z	11	10146-007-0001-SA	LDW-BA-IN-ENR+AC-CA-S010*	19-SEP-16 23:55:30	ST091916Z1	ST091916Z2	BS
19SEP16Z	12	10146-008-0001-SA	LDW-BA-IN-ENR+AC-CB-S010	20-SEP-16 00:51:57	ST091916Z1	ST091916Z2	BS
19SEP16Z	13	10146-009-0001-SA	LDW-BA-IN-ENR+AC-CC-S010	20-SEP-16 01:48:23	ST091916Z1	ST091916Z2	BS
19SEP16Z	14	SB091916Z1	Solvent Blank	20-SEP-16 02:44:50	ST091916Z1	ST091916Z2	BS
19SEP16Z	15	ST091916Z2	1668 CS3 R160816B	20-SEP-16 03:41:16	ST091916Z1	ST091916Z2	BS
19SEP16Z	16	SB091916Z1	Solvent Blank	20-SEP-16 04:37:44	ST091916Z2	ST091916Z3	BS
19SEP16Z	17	10146-010-0001-SA	LDW-BA-IN-ENR-CA-S010	20-SEP-16 05:34:10	ST091916Z2	ST091916Z3	BS
19SEP16Z	18	10146-011-0001-SA	LDW-BA-IN-ENR-CB-S010	20-SEP-16 06:30:36	ST091916Z2	ST091916Z3	BS
19SEP16Z	19	10146-012-0001-SA	LDW-BA-IN-ENR-CC-S010	20-SEP-16 07:27:04	ST091916Z2	ST091916Z3	BS
19SEP16Z	20	ST091916Z3	1668 CS3 R160816B	20-SEP-16 08:23:33	ST091916Z2	ST091916Z3	BS

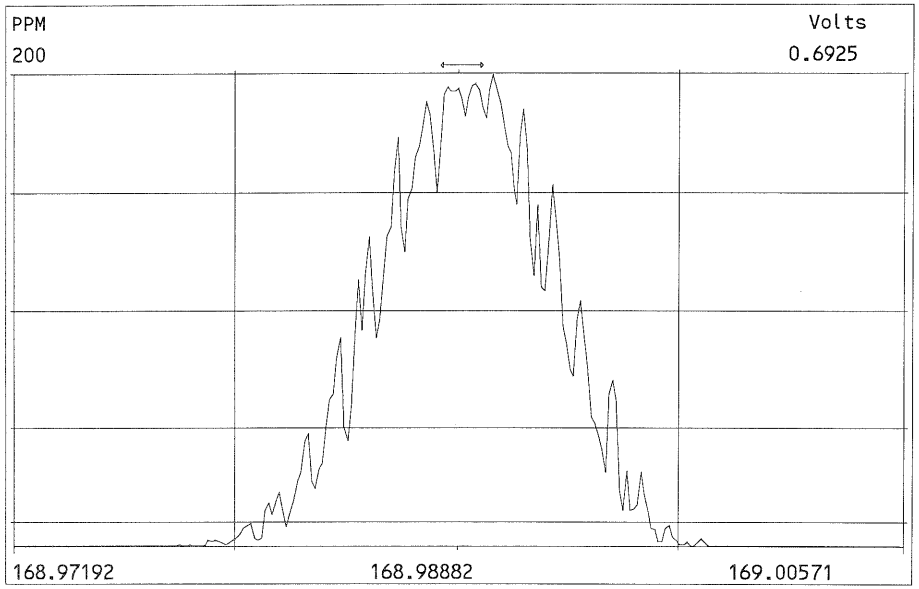
* Bad Injection - Reanalyze on 21SEP16Z

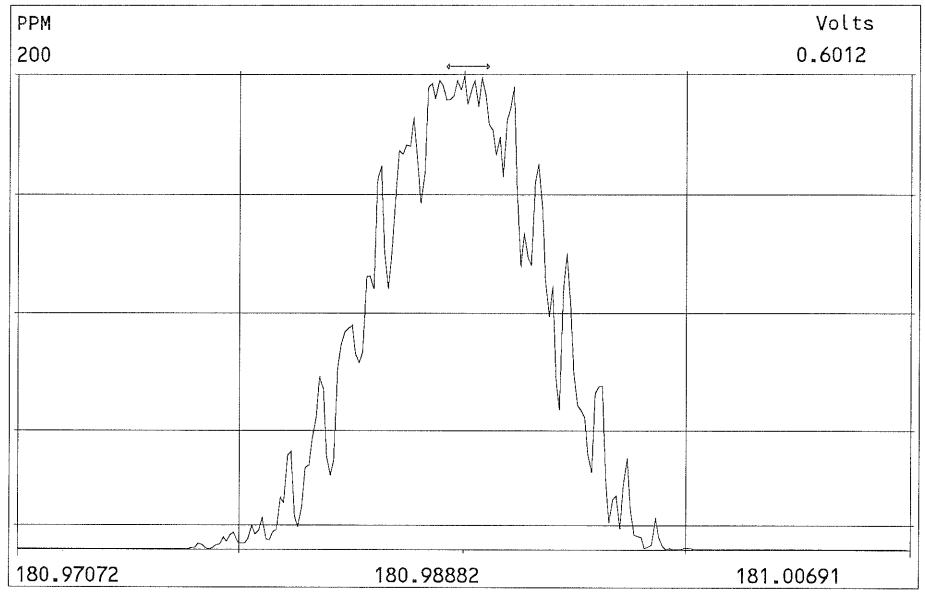
BS 9/20/16

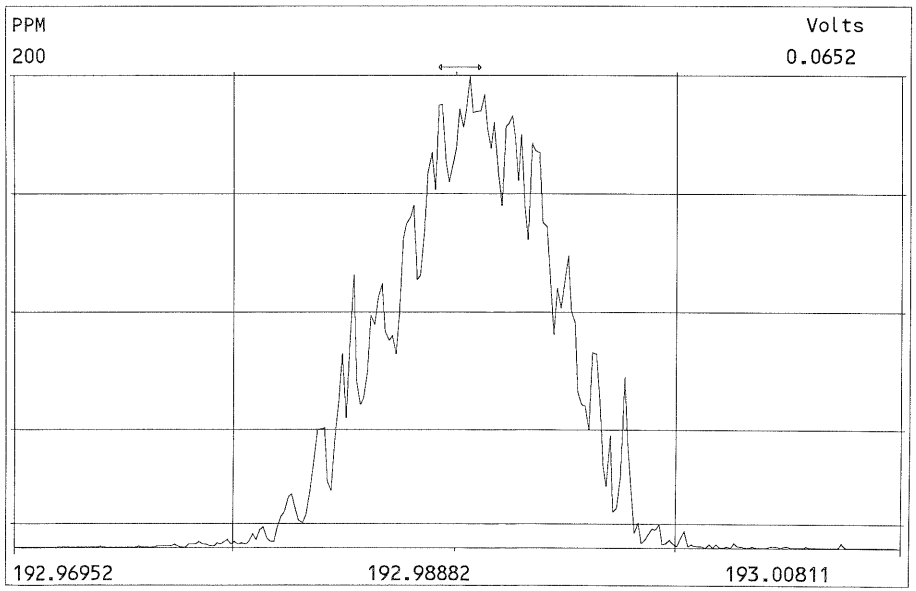
Data Backed Up:_____

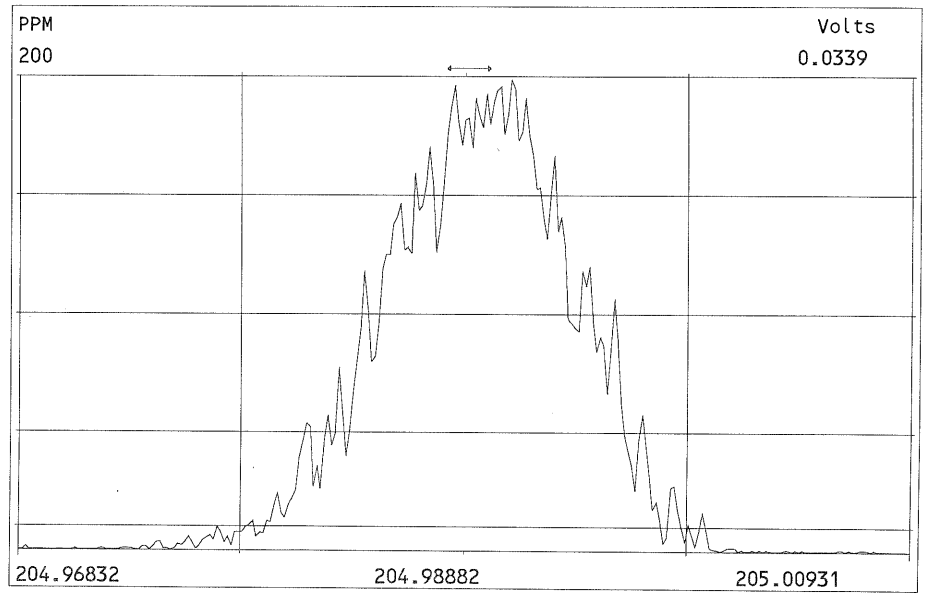
Date:_____

Peak Locate Examination:19-SEP-2016:14:27 File:19SEP16Z
Experiment:1668PCB Function:1 Reference:PFK

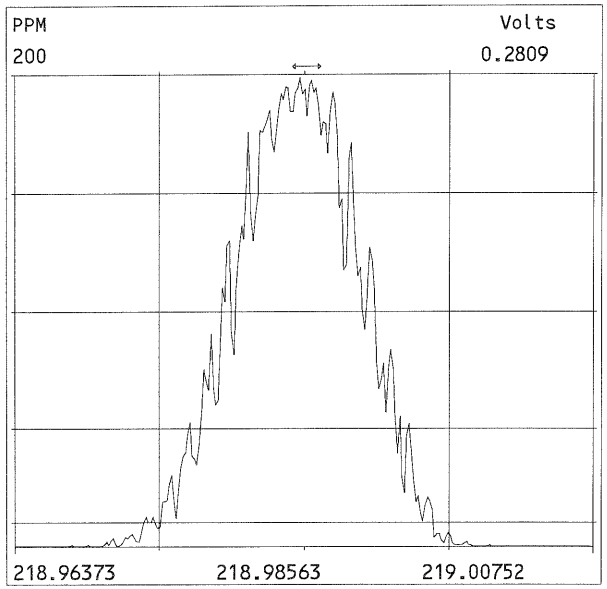


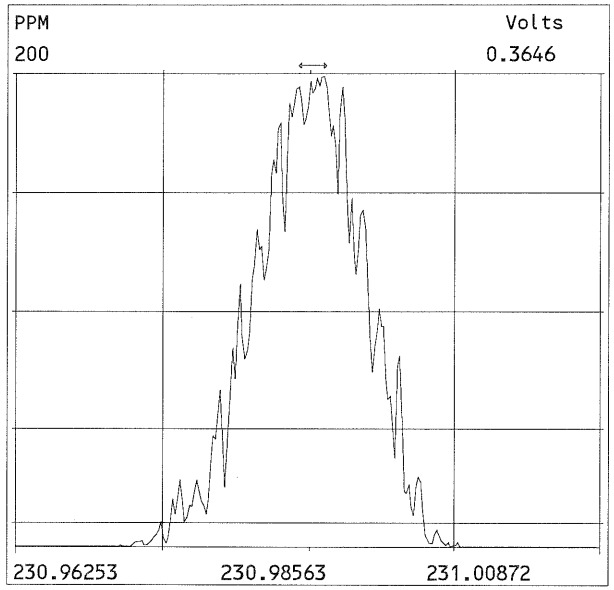


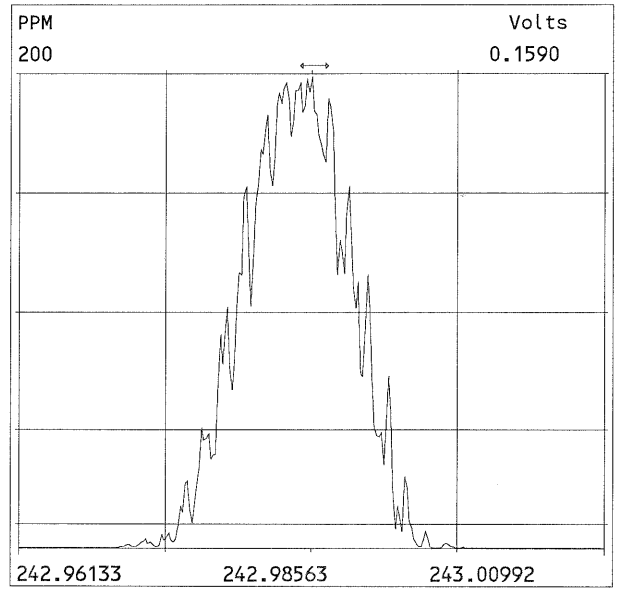


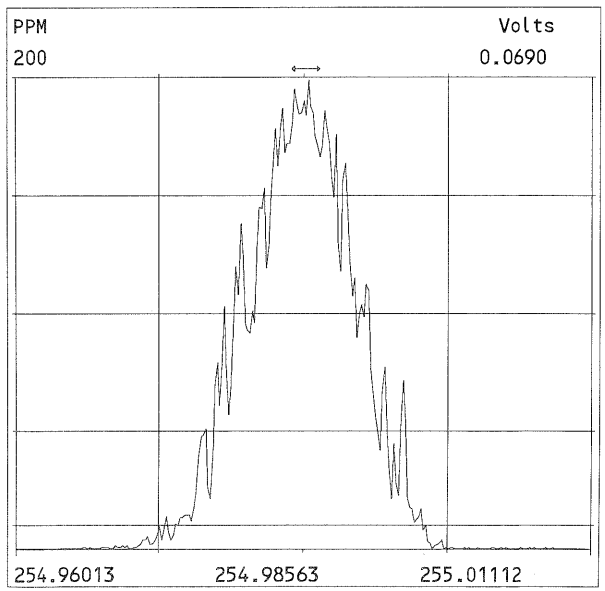


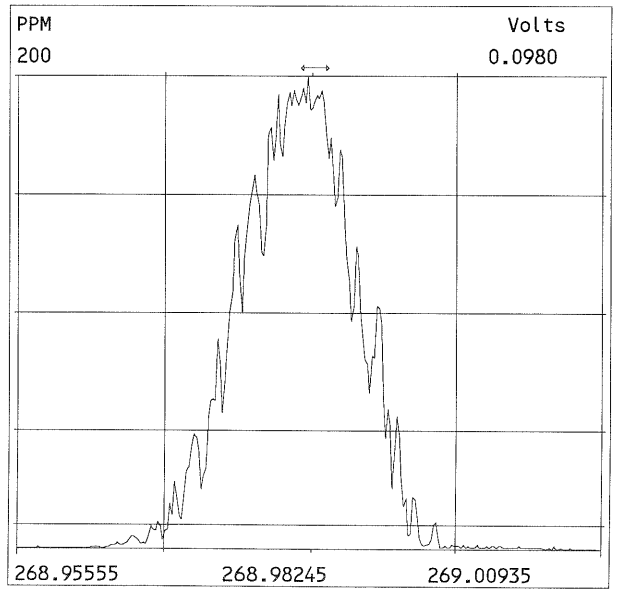
Peak Locate Examination:19-SEP-2016:14:28 File:19SEP16Z
Experiment:1668PCB Function:2 Reference:PFK

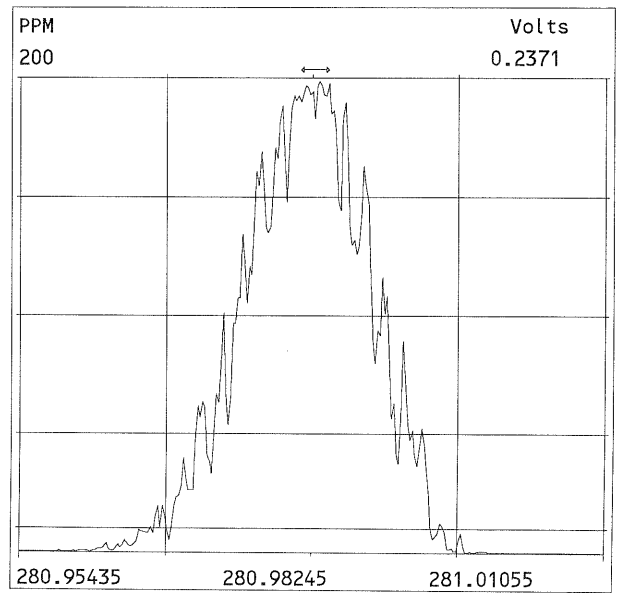




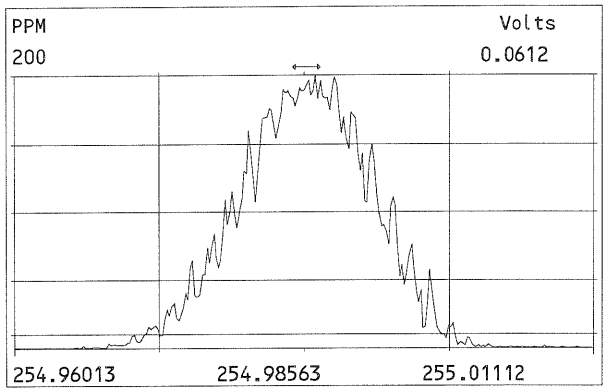


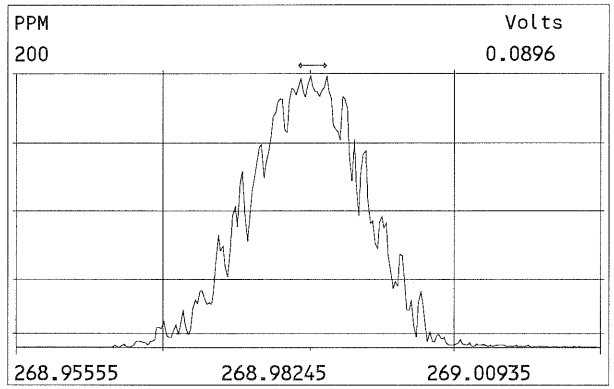


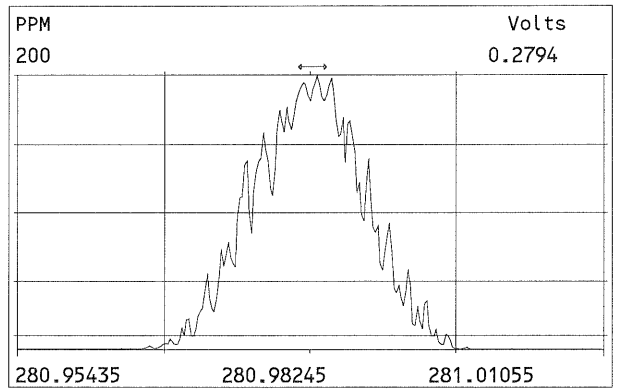


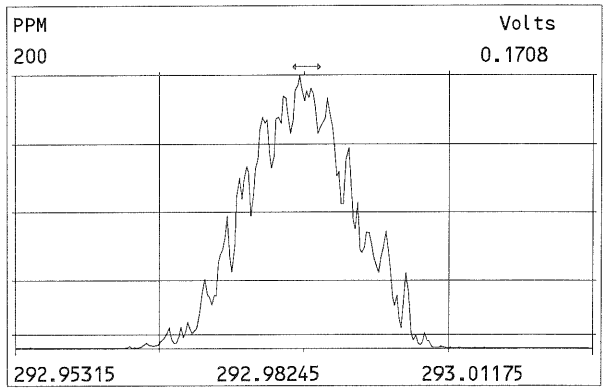


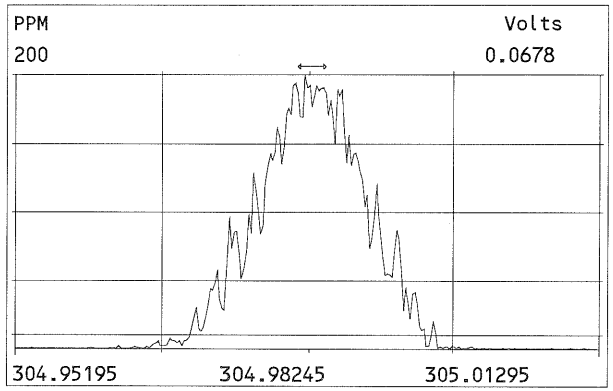
Peak Locate Examination:19-SEP-2016:14:28 File:19SEP16Z
Experiment:1668PCB Function:3 Reference:PFK

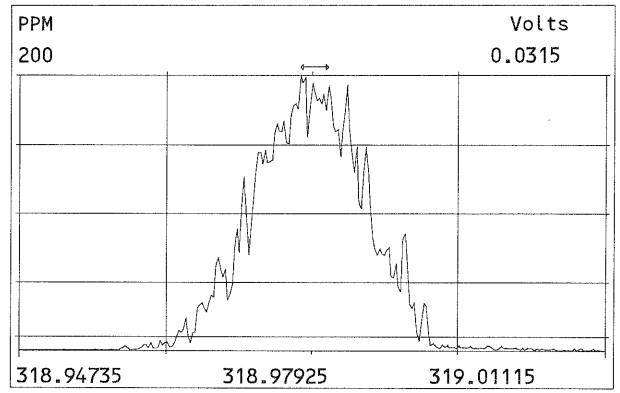


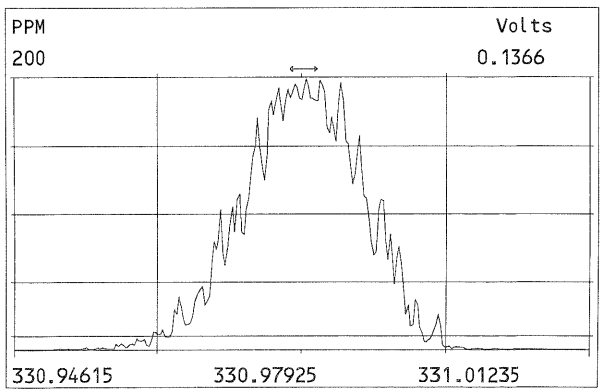


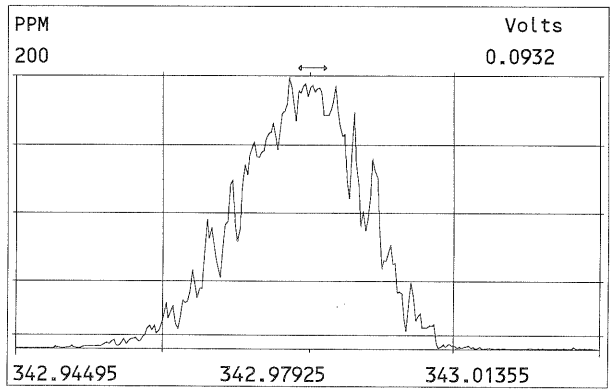




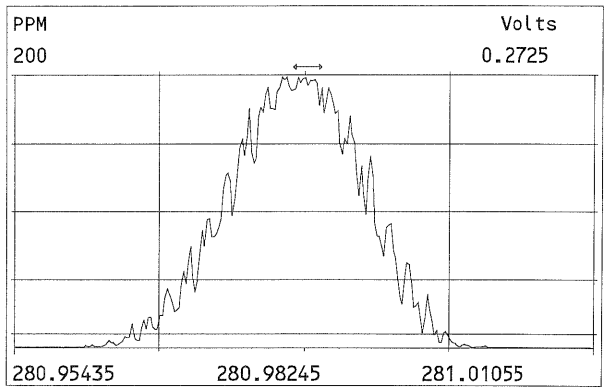


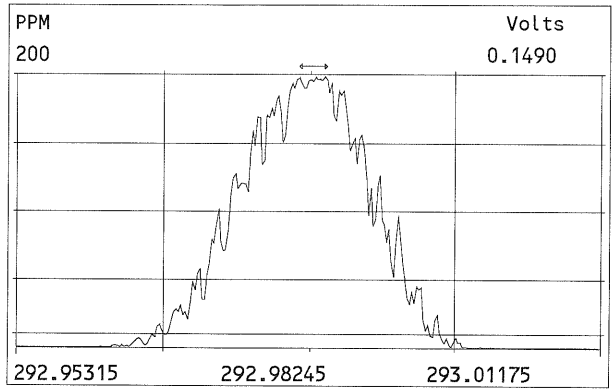


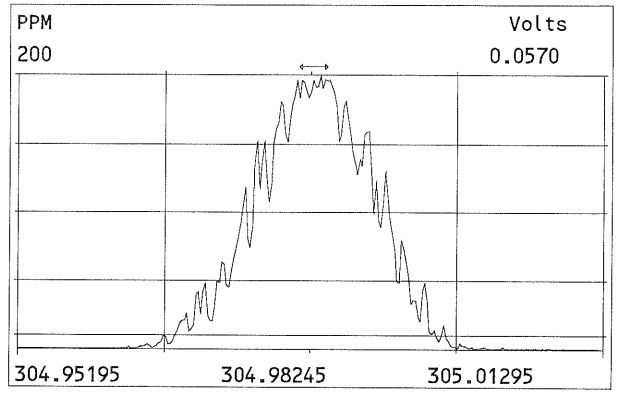


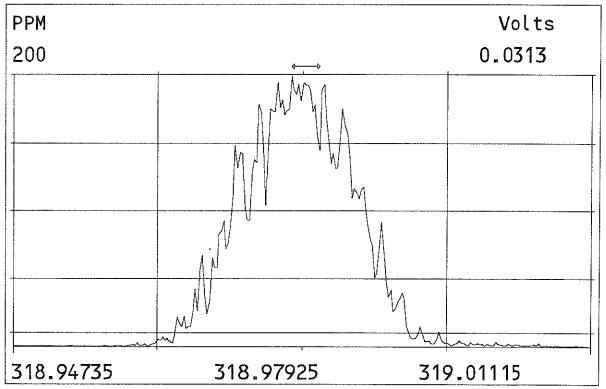


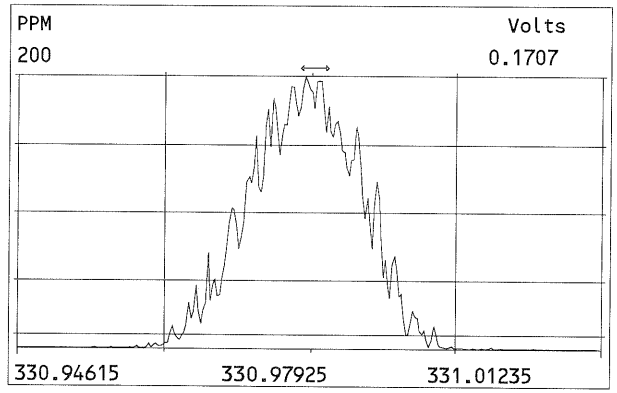
Peak Locate Examination:19-SEP-2016:14:29 File:19SEP16Z
Experiment:1668PCB Function:4 Reference:PFK

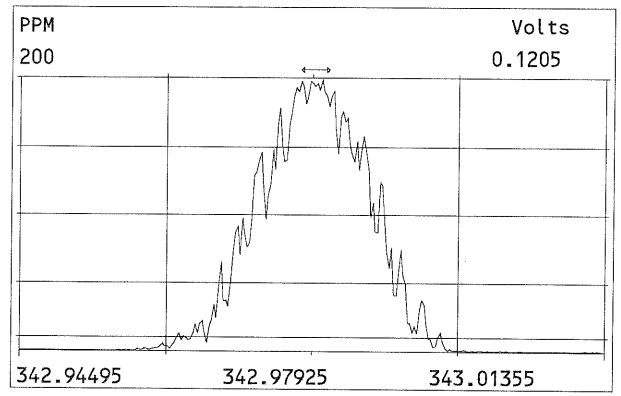


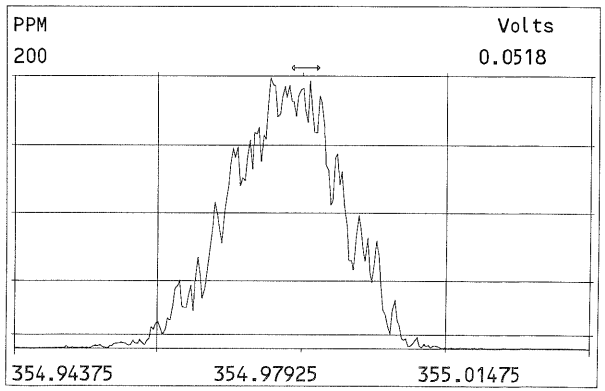


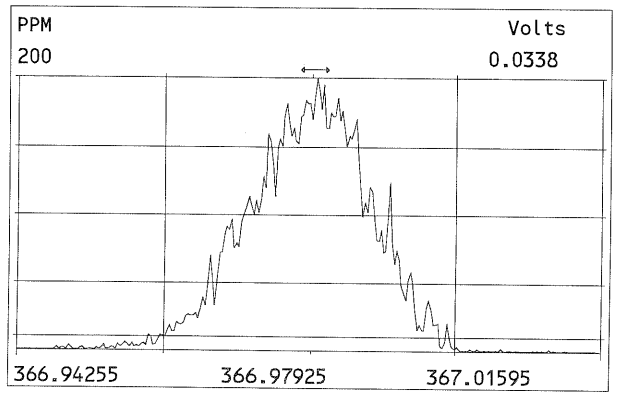


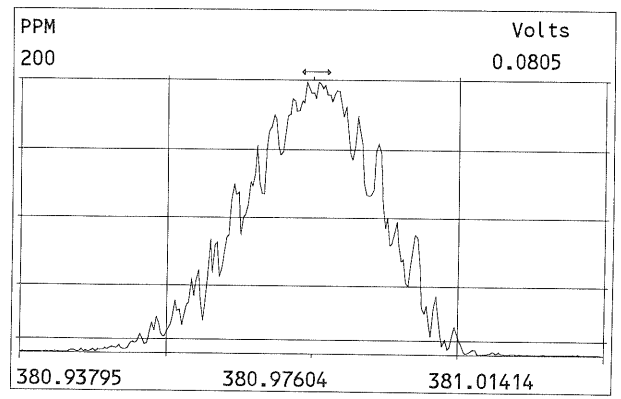




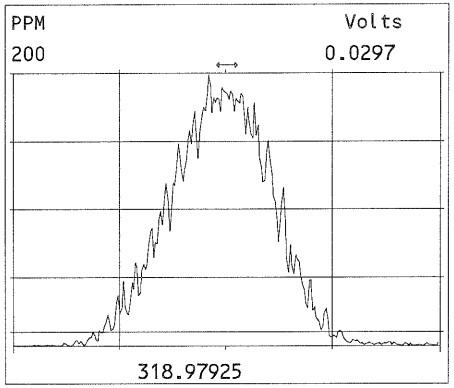


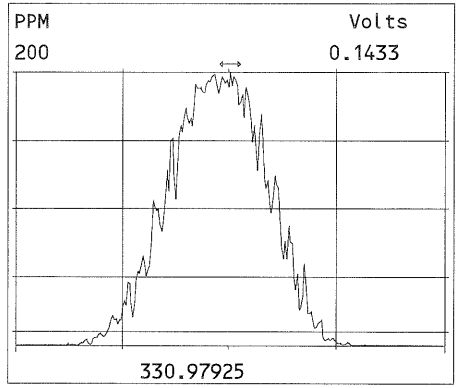


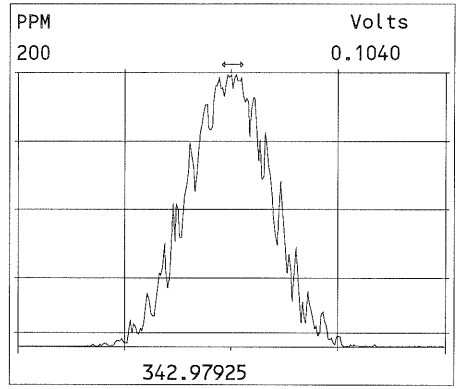


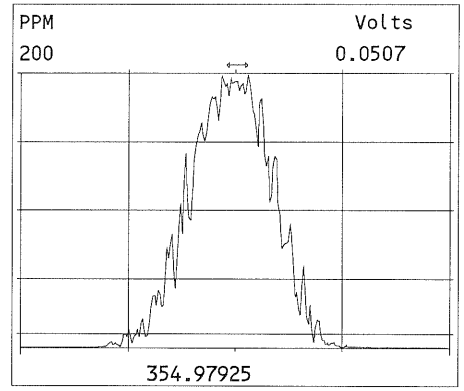


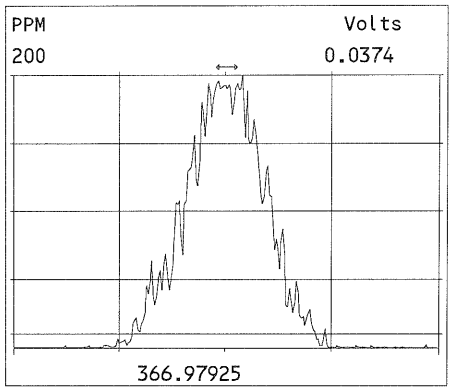
Peak Locate Examination:19-SEP-2016:14:29 File:19SEP16Z
Experiment:1668PCB Function:5 Reference:PFK

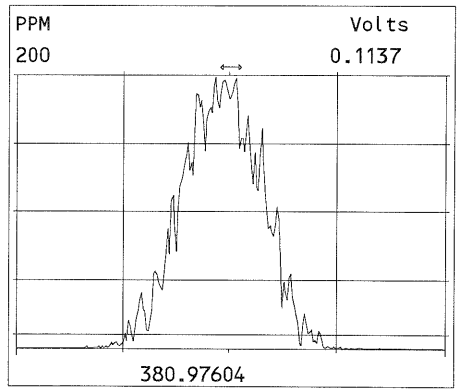


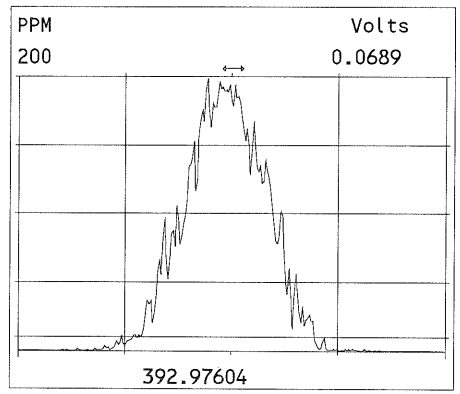


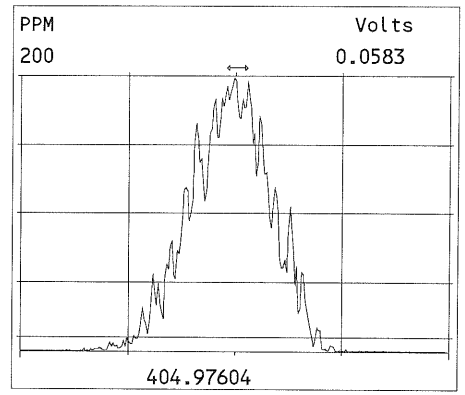


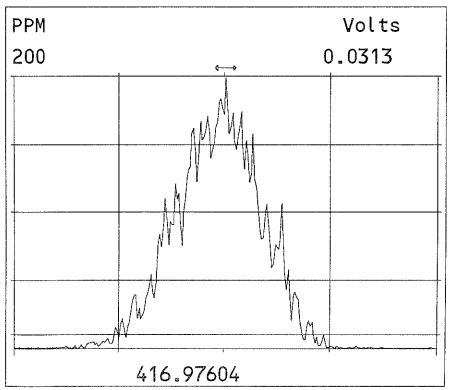


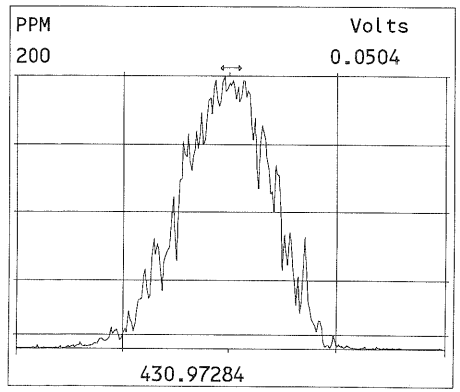


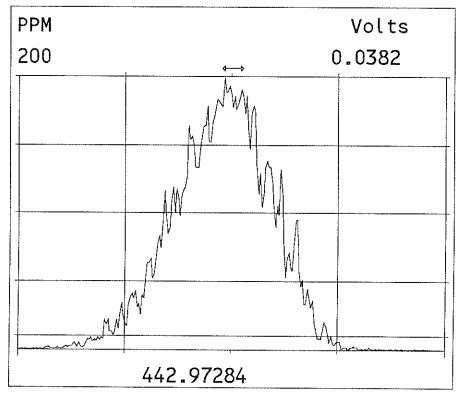




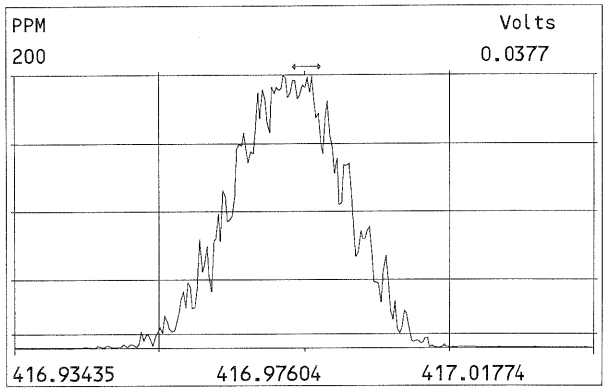


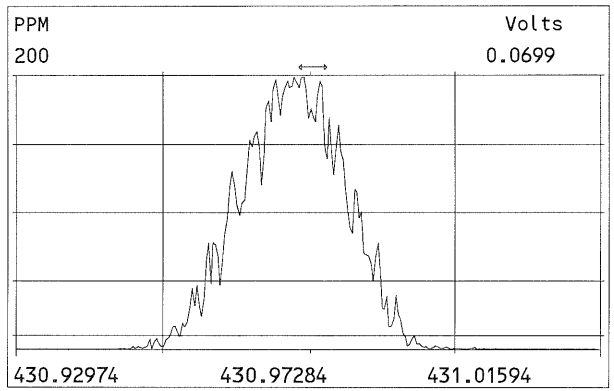


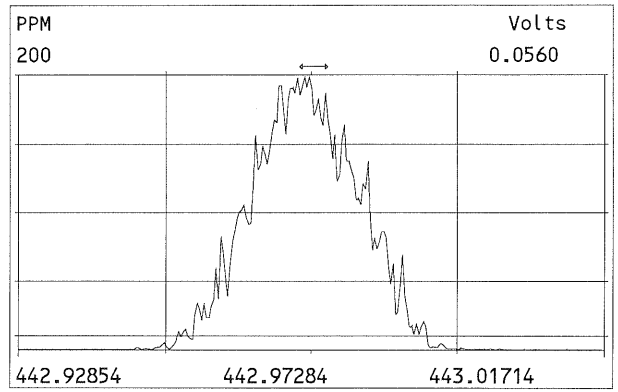


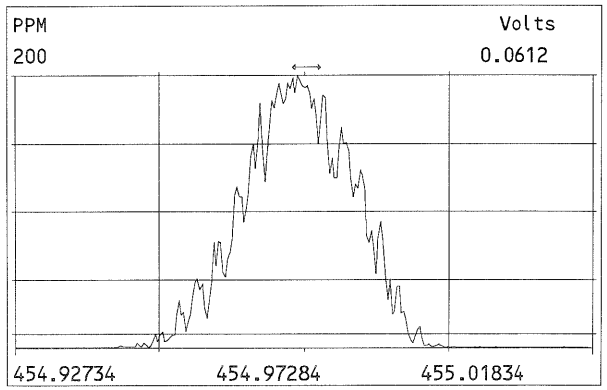


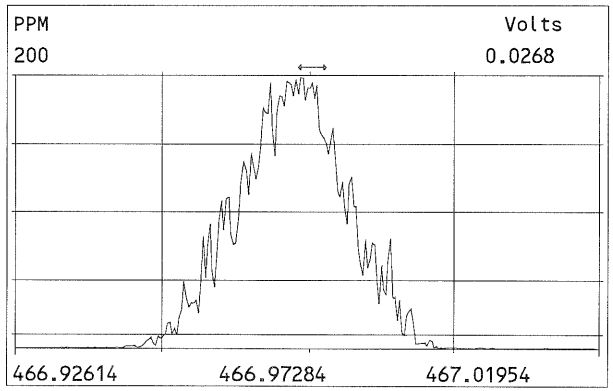
Peak Locate Examination:19-SEP-2016:14:30 File:19SEP16Z
Experiment:1668PCB Function:6 Reference:PFK

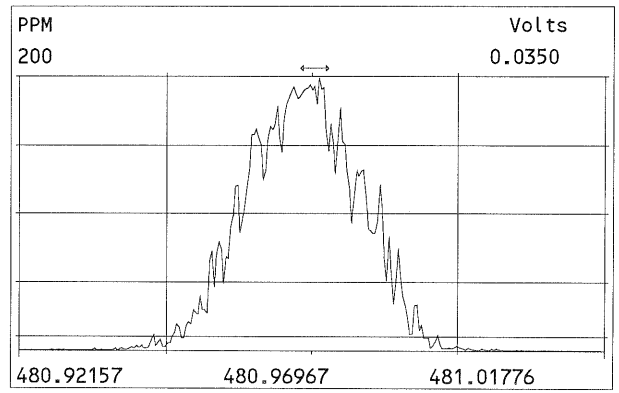


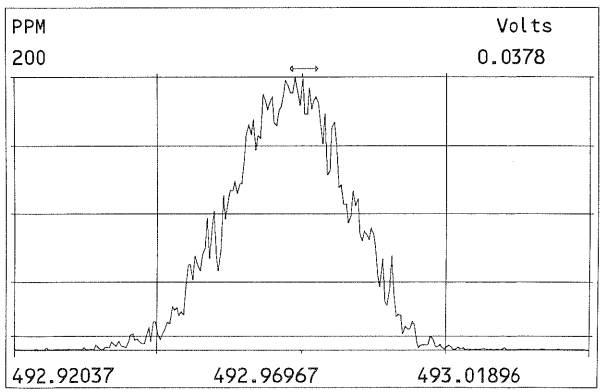


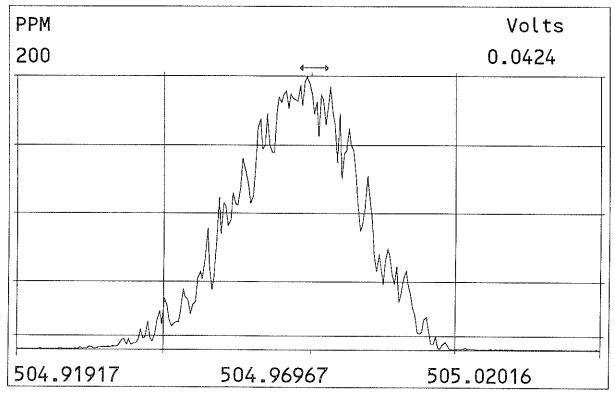


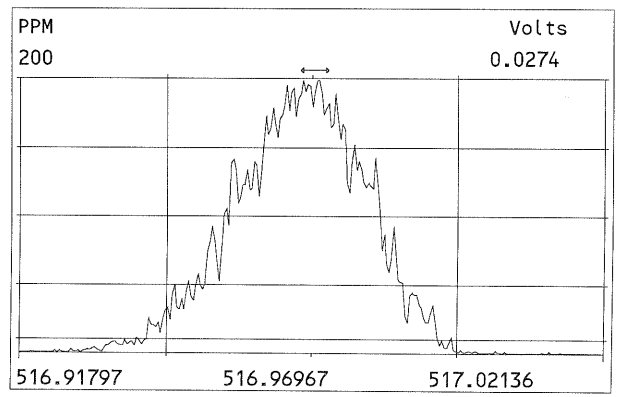




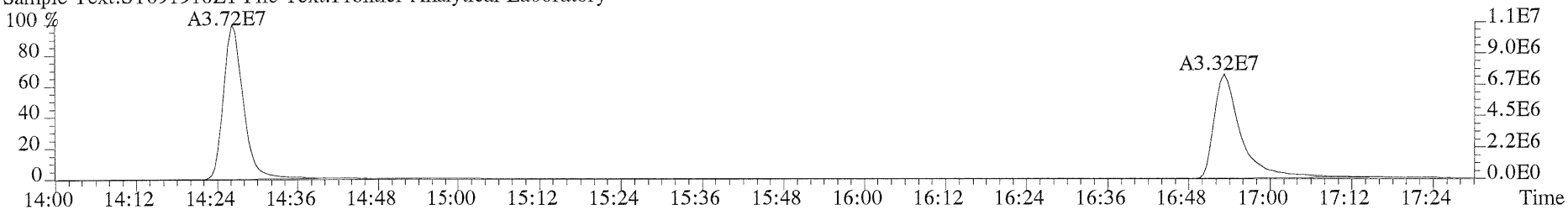




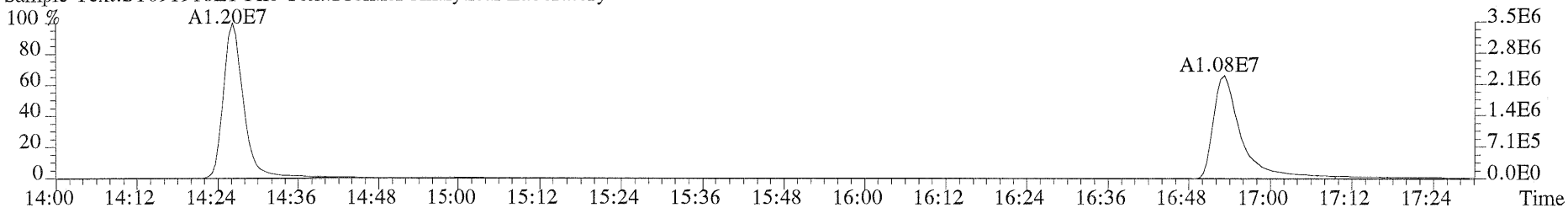




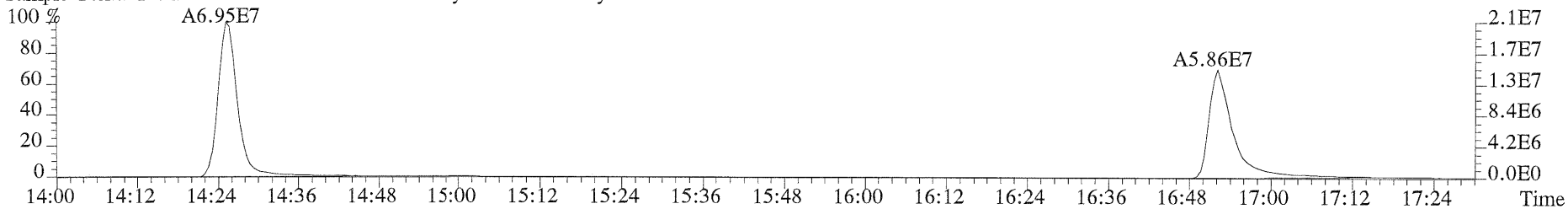
File:19SEP16Z #1-548 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



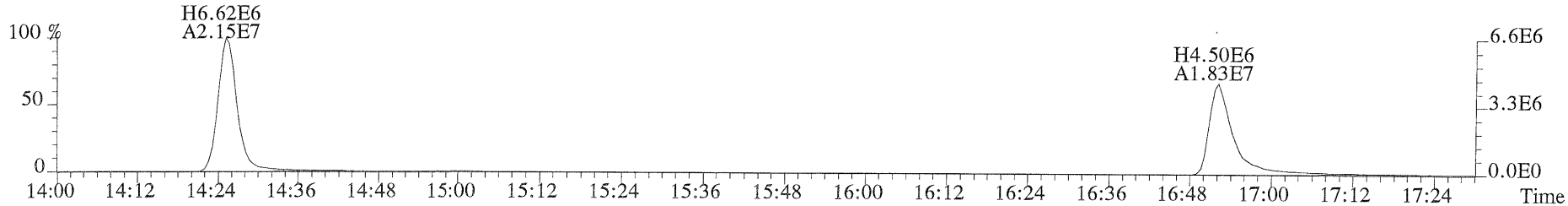
File:19SEP16Z #1-548 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



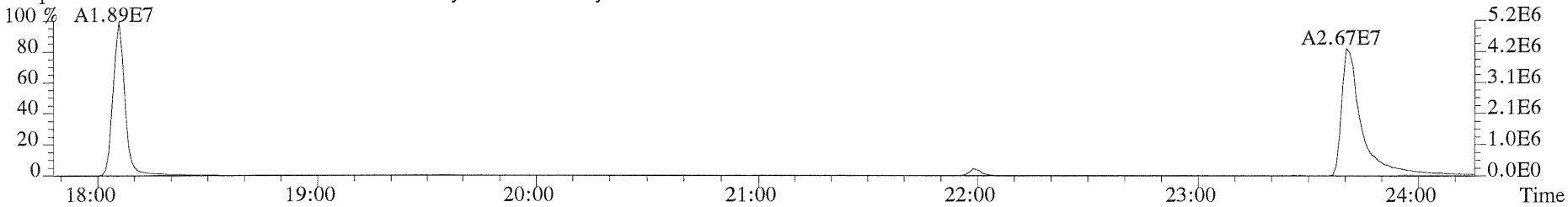
File:19SEP16Z #1-548 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



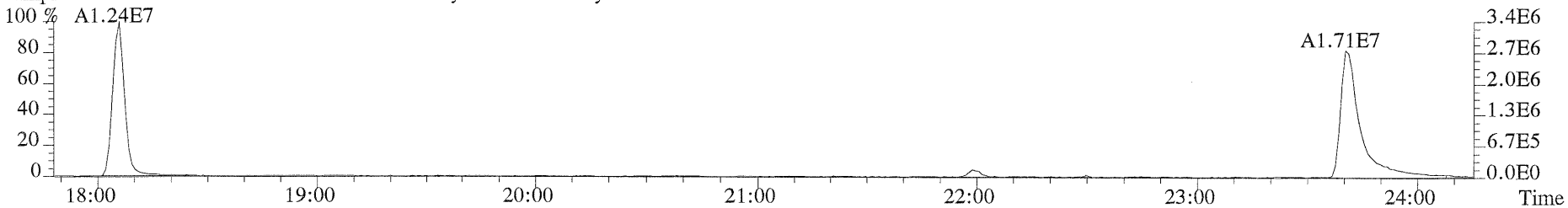
File:19SEP16Z #1-548 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



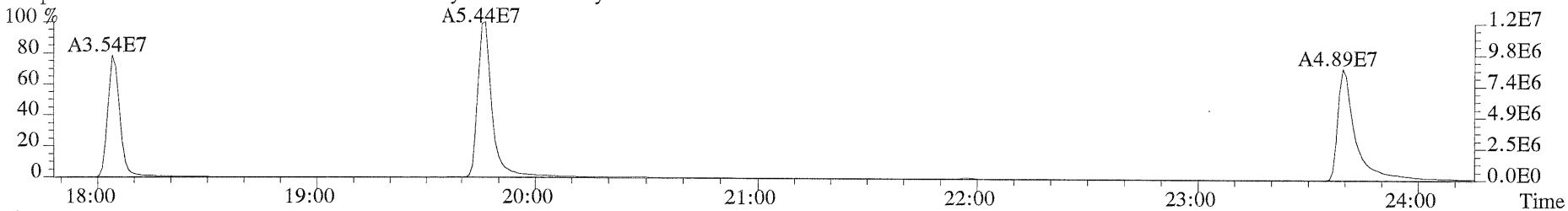
File:19SEP16Z #1-509 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



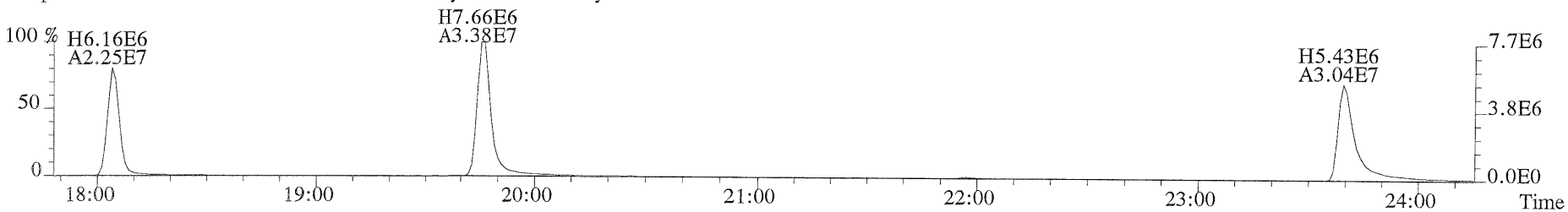
File:19SEP16Z #1-509 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



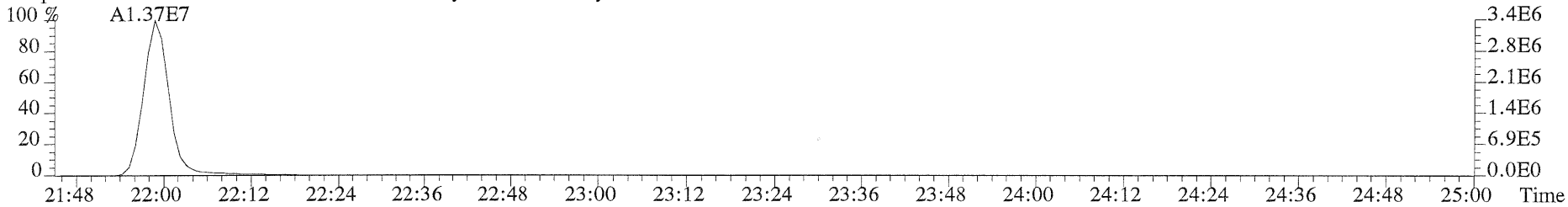
File:19SEP16Z #1-509 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



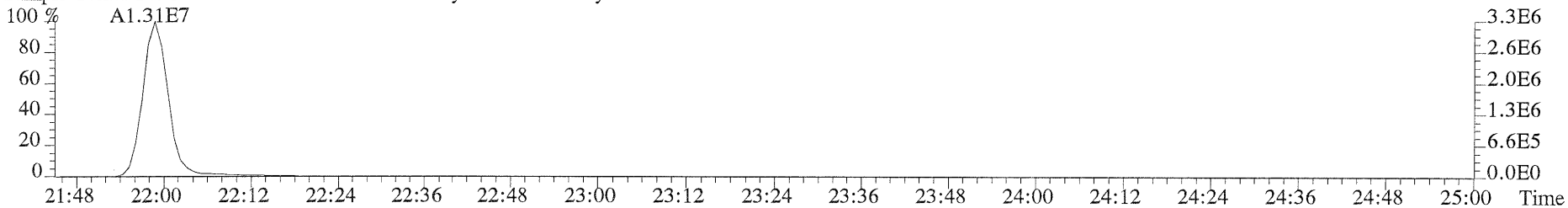
File:19SEP16Z #1-509 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



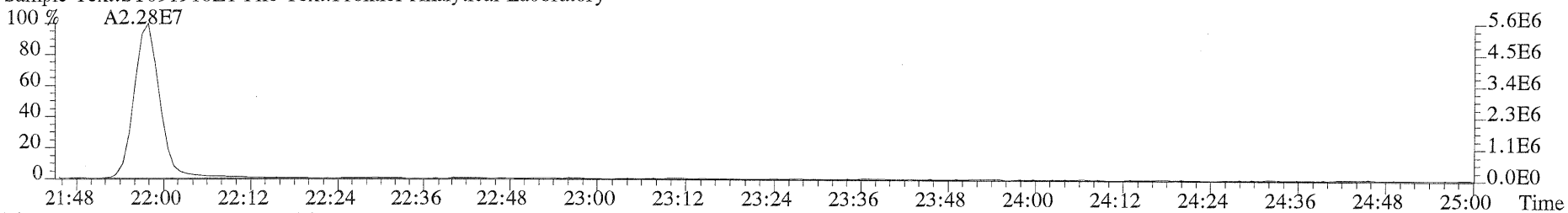
File:19SEP16Z #1-509 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



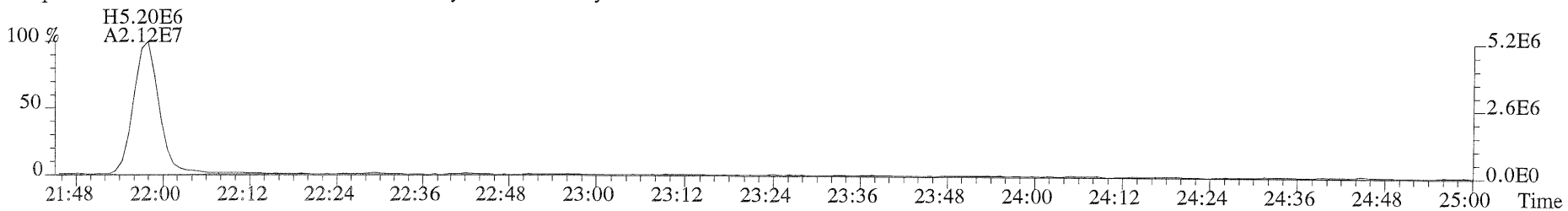
File:19SEP16Z #1-509 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



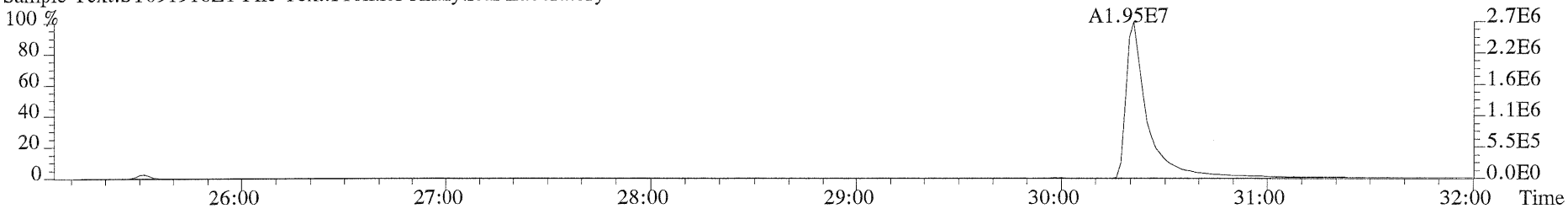
File:19SEP16Z #1-509 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



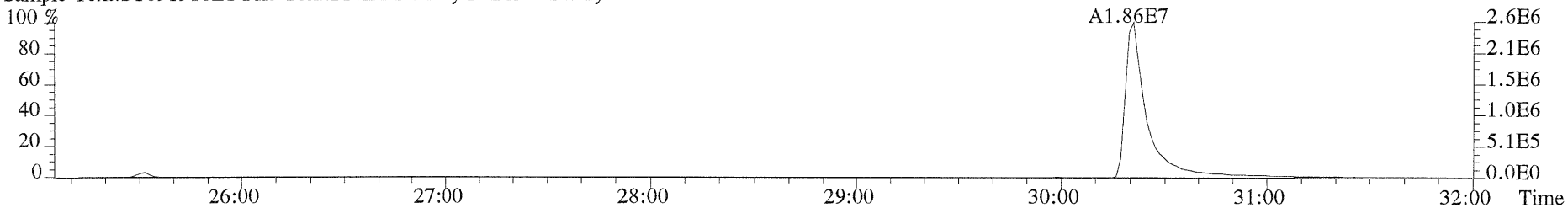
File:19SEP16Z #1-509 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



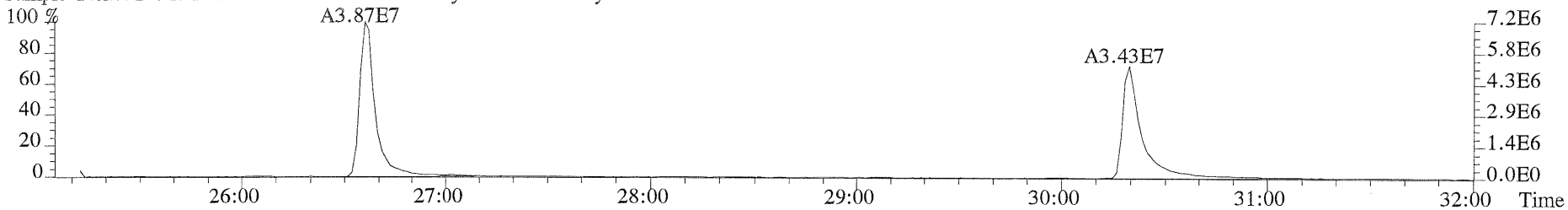
File:19SEP16Z #1-403 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



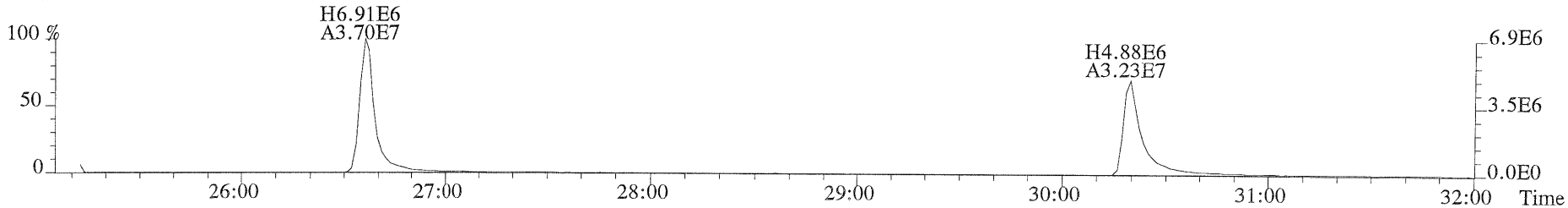
File:19SEP16Z #1-403 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



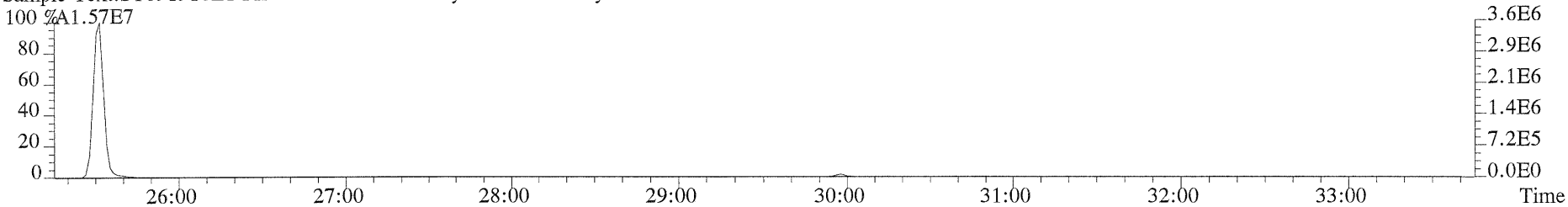
File:19SEP16Z #1-403 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



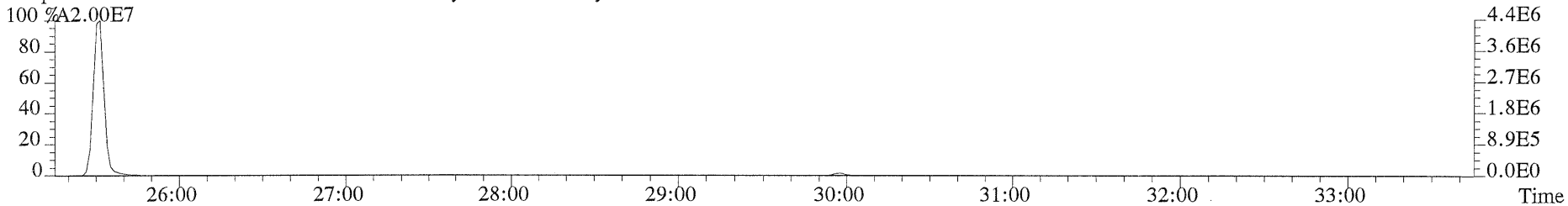
File:19SEP16Z #1-403 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



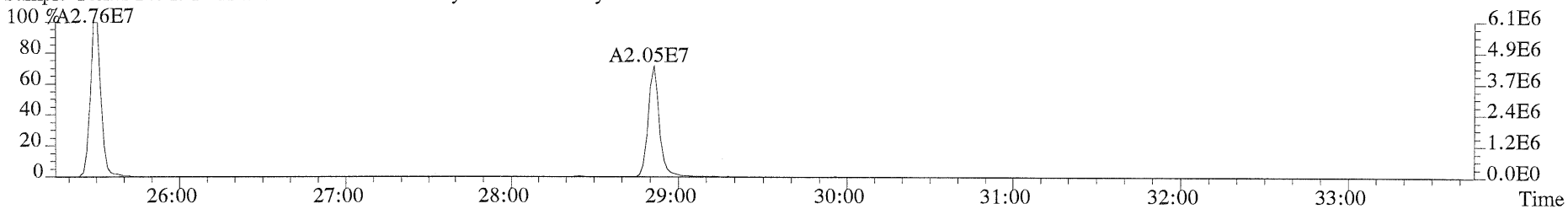
File:19SEP16Z #1-403 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



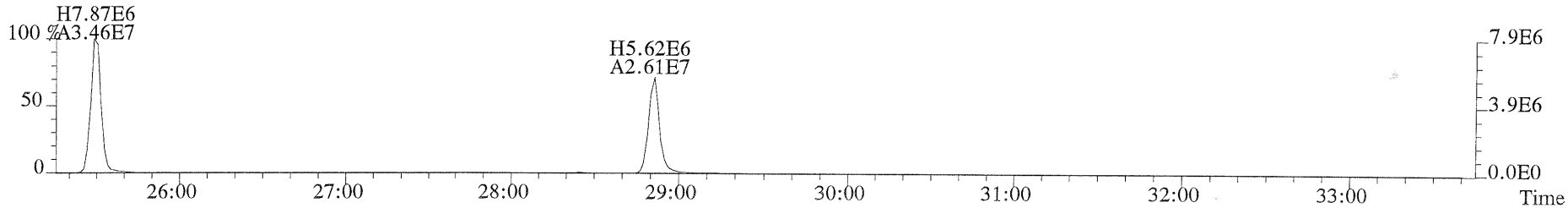
File:19SEP16Z #1-403 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



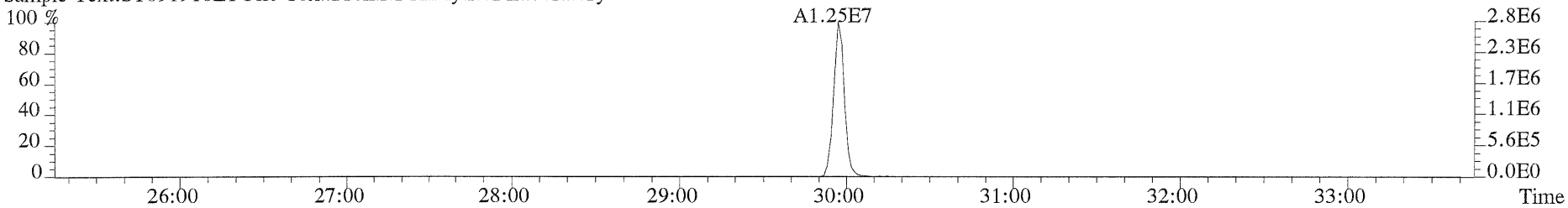
File:19SEP16Z #1-403 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



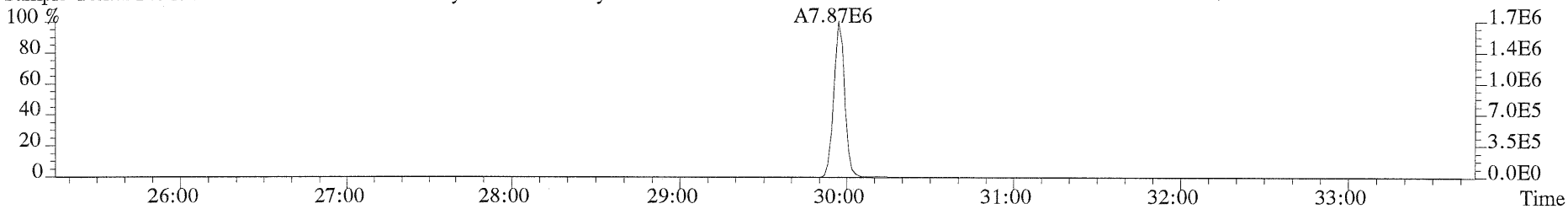
File:19SEP16Z #1-403 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



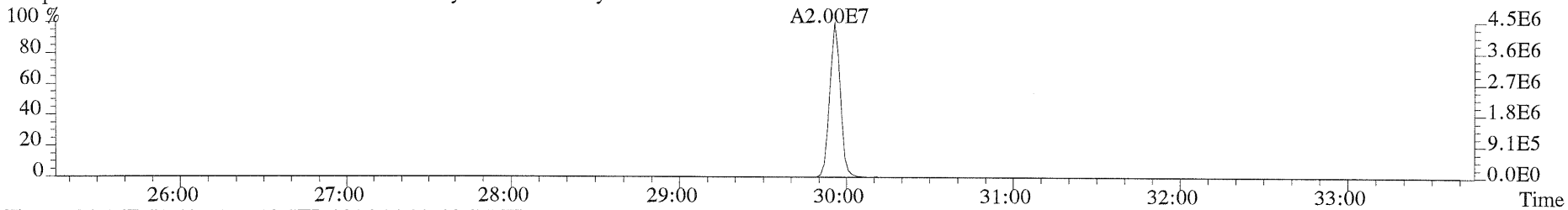
File:19SEP16Z #1-403 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



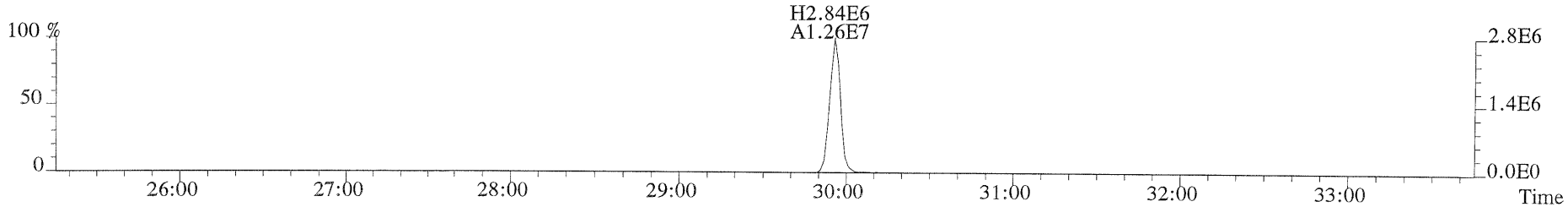
File:19SEP16Z #1-403 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



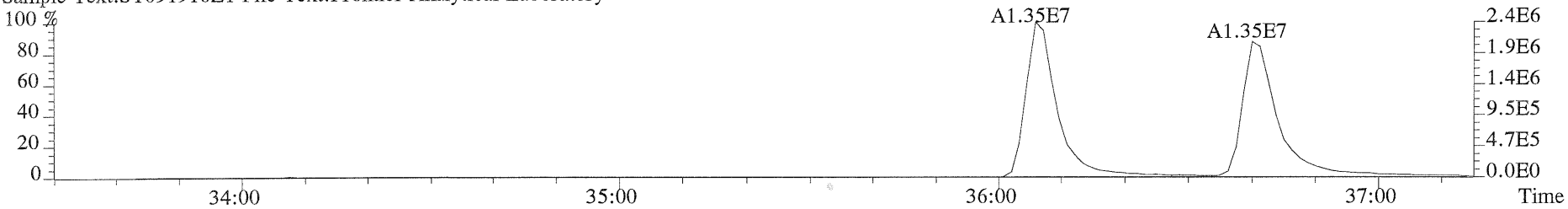
File:19SEP16Z #1-403 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



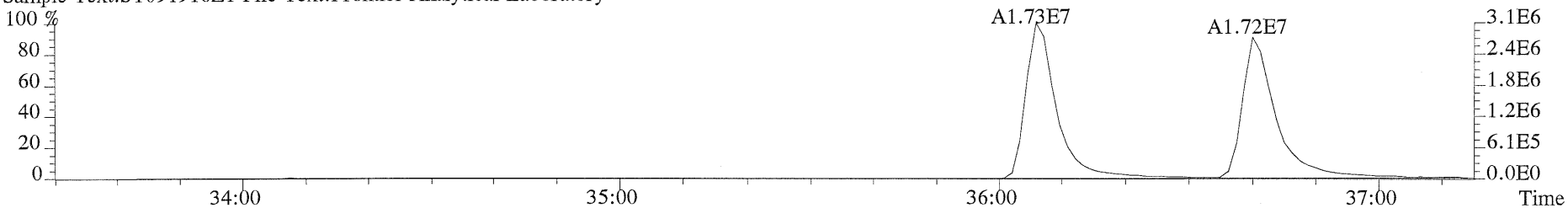
File:19SEP16Z #1-403 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



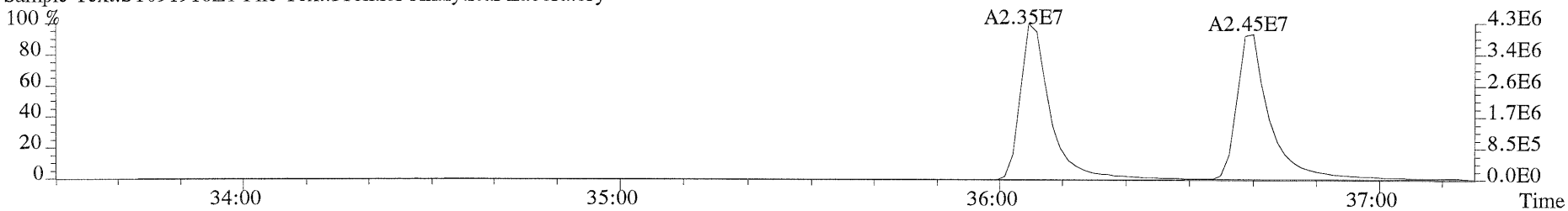
File:19SEP16Z #1-179 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



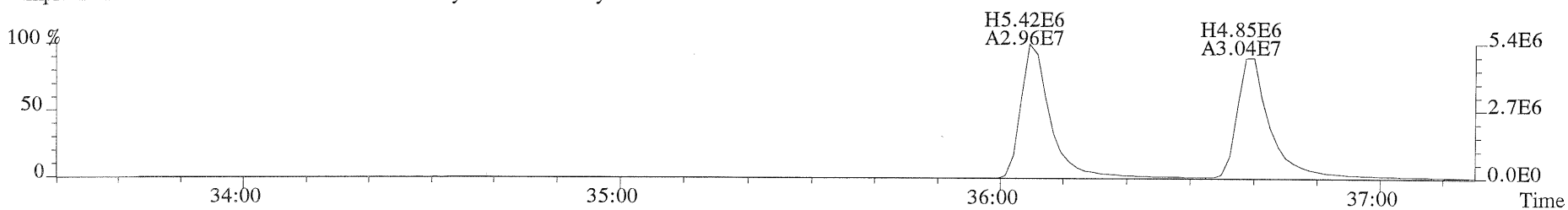
File:19SEP16Z #1-179 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



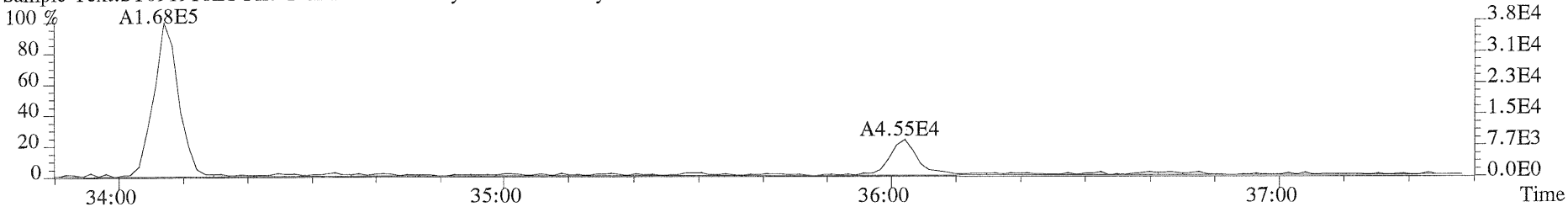
File:19SEP16Z #1-179 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



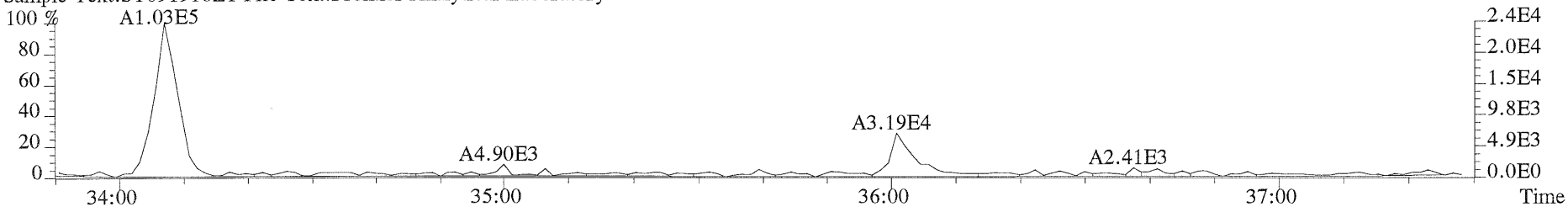
File:19SEP16Z #1-179 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



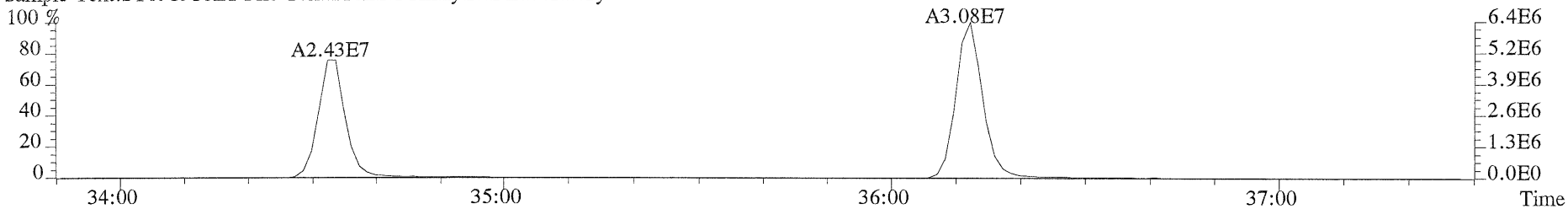
File:19SEP16Z #1-179 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



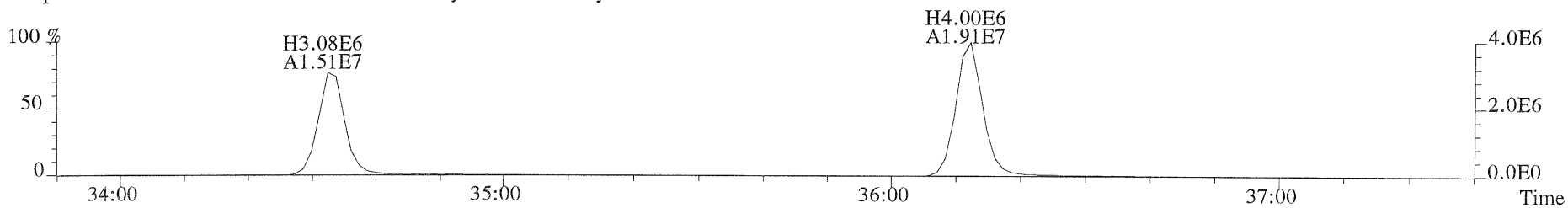
File:19SEP16Z #1-179 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



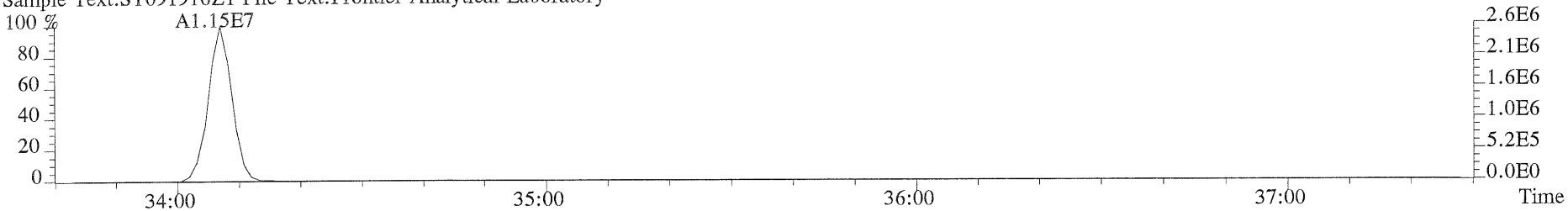
File:19SEP16Z #1-179 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



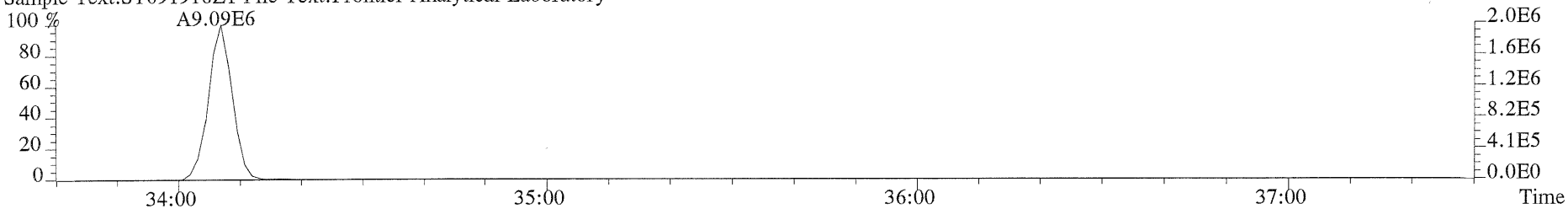
File:19SEP16Z #1-179 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



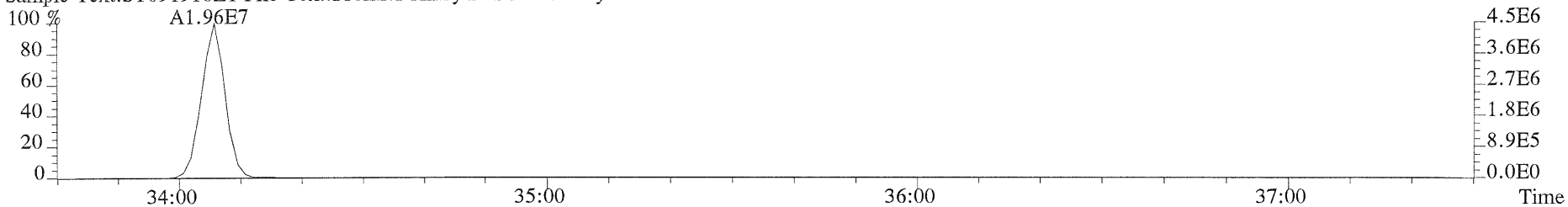
File:19SEP16Z #1-179 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



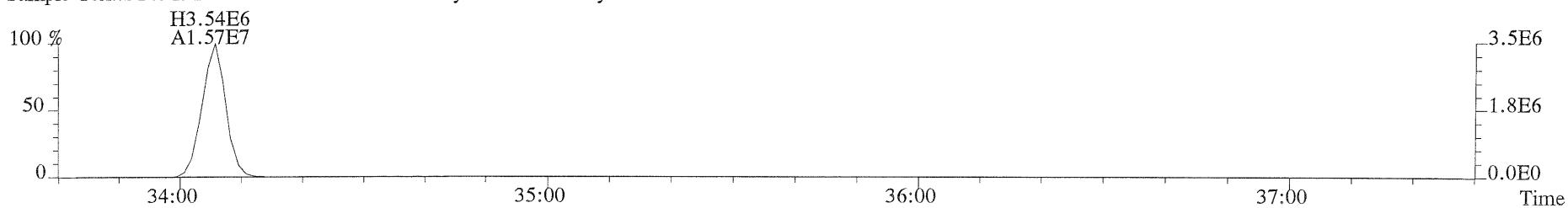
File:19SEP16Z #1-179 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



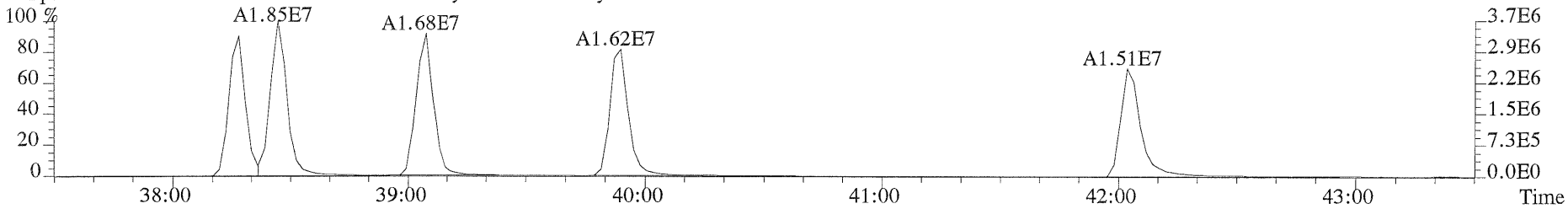
File:19SEP16Z #1-179 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



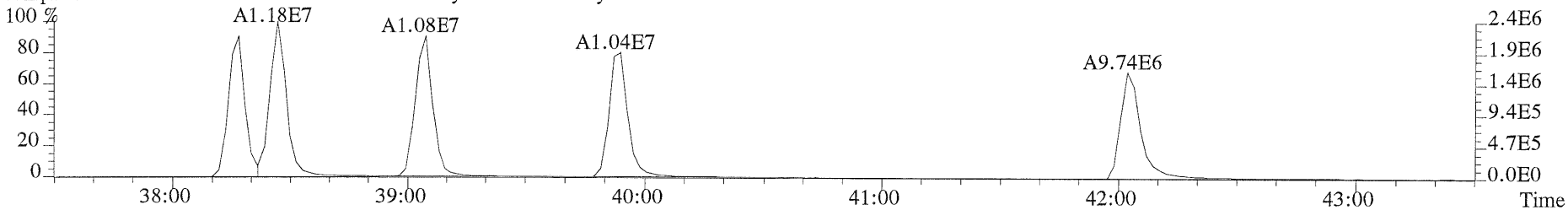
File:19SEP16Z #1-179 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



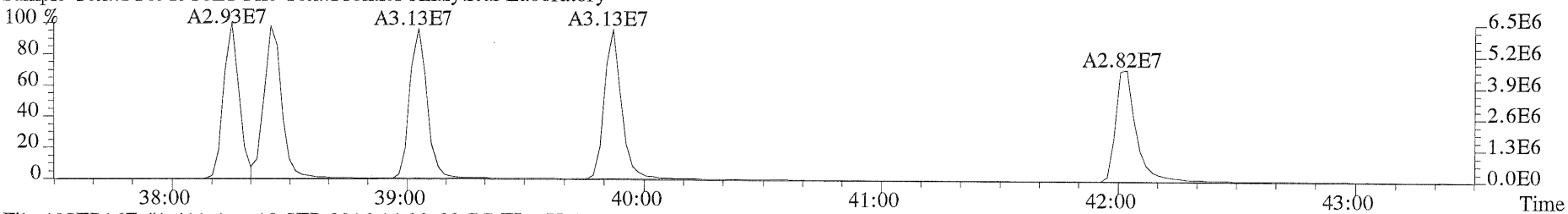
File:19SEP16Z #1-411 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



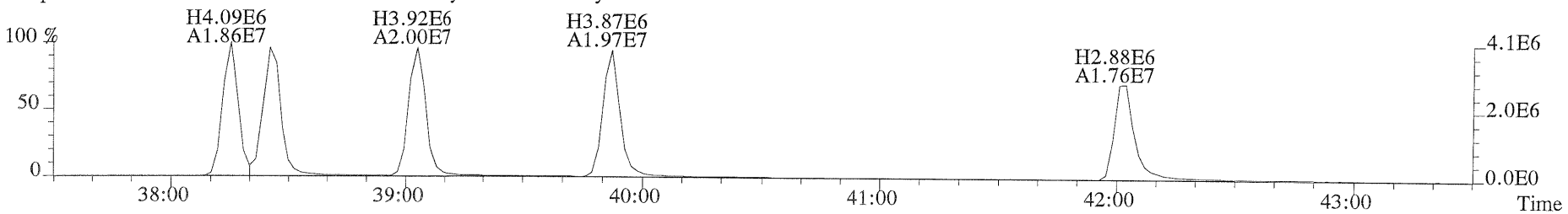
File:19SEP16Z #1-411 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



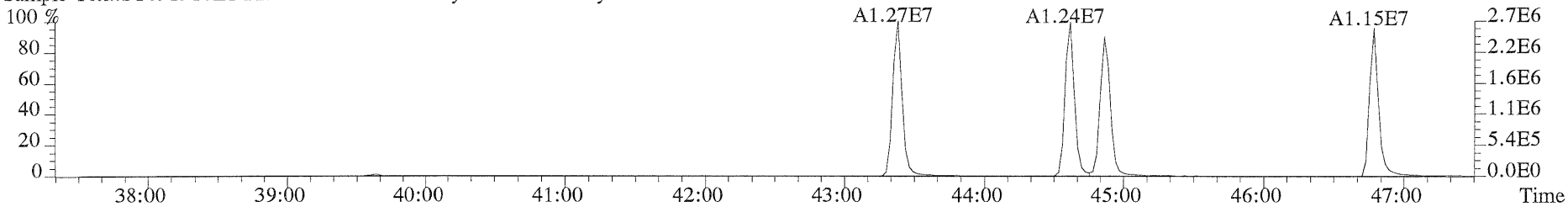
File:19SEP16Z #1-411 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



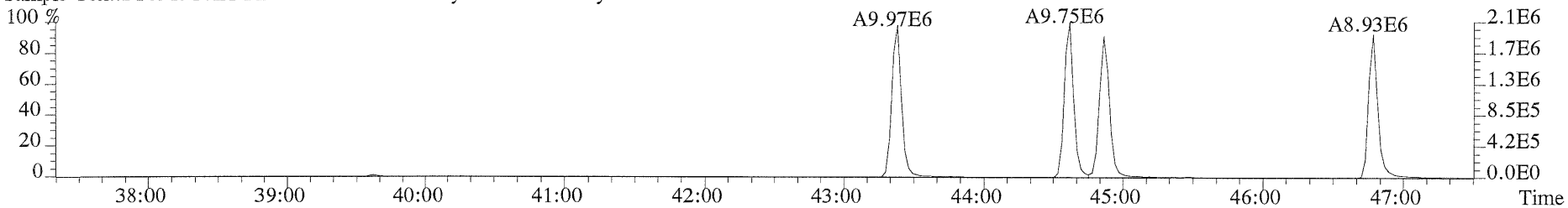
File:19SEP16Z #1-411 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



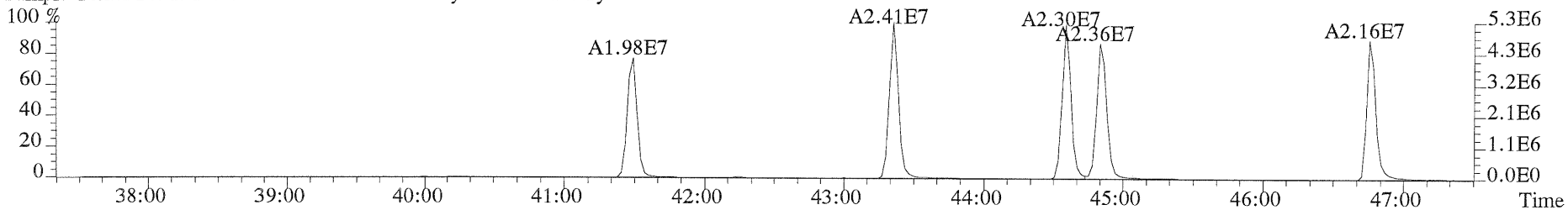
File:19SEP16Z #1-411 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



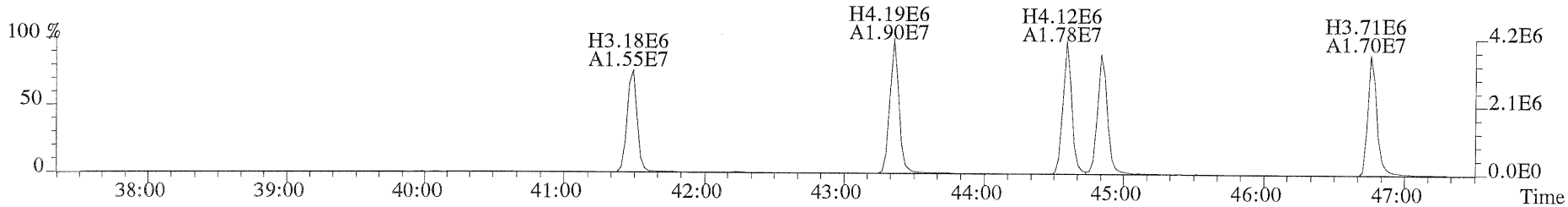
File:19SEP16Z #1-411 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



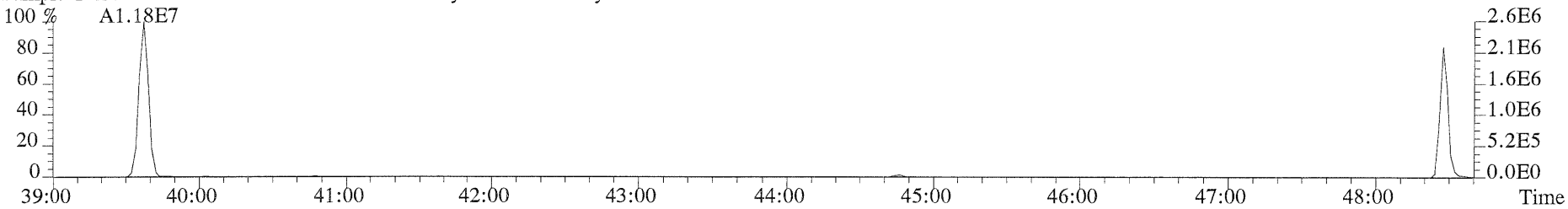
File:19SEP16Z #1-411 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



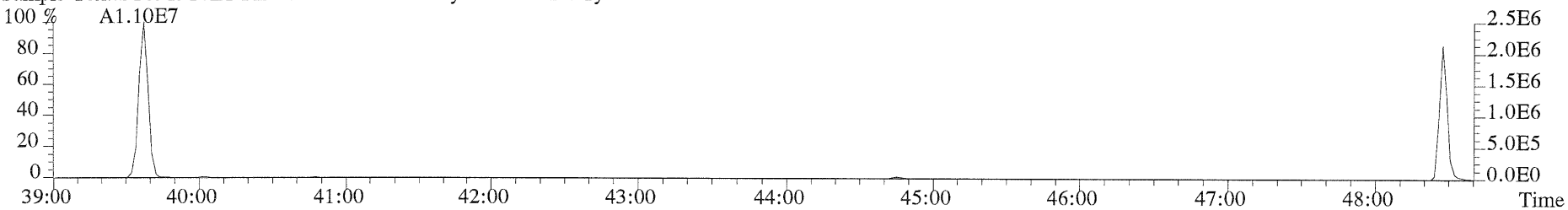
File:19SEP16Z #1-411 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



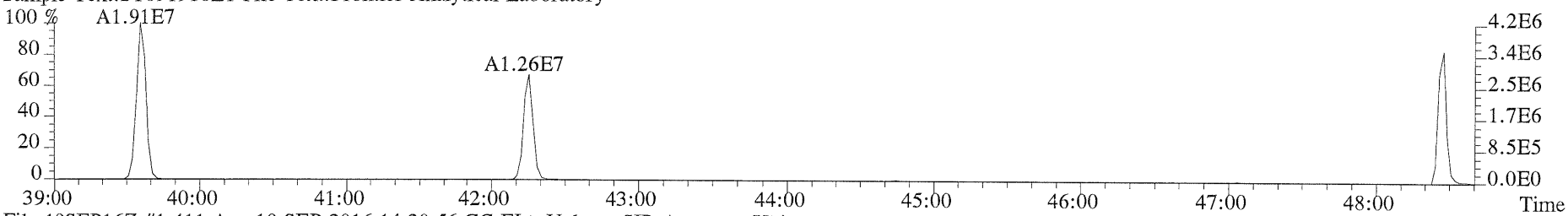
File:19SEP16Z #1-411 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



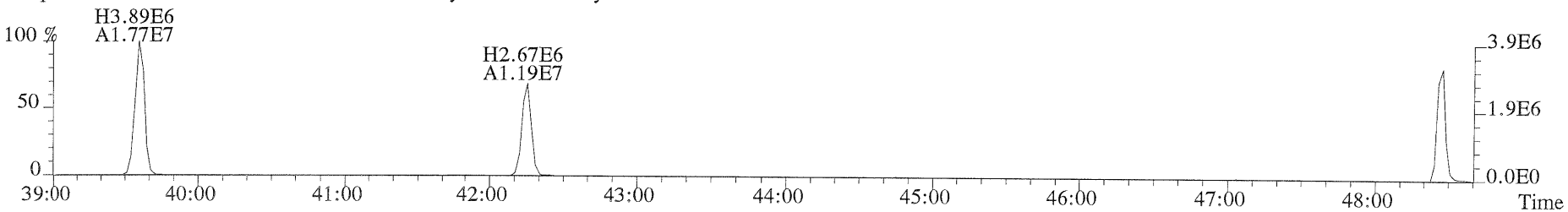
File:19SEP16Z #1-411 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



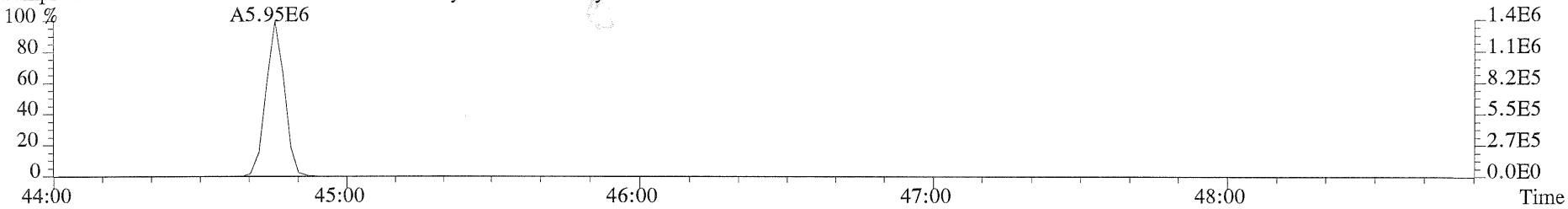
File:19SEP16Z #1-411 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



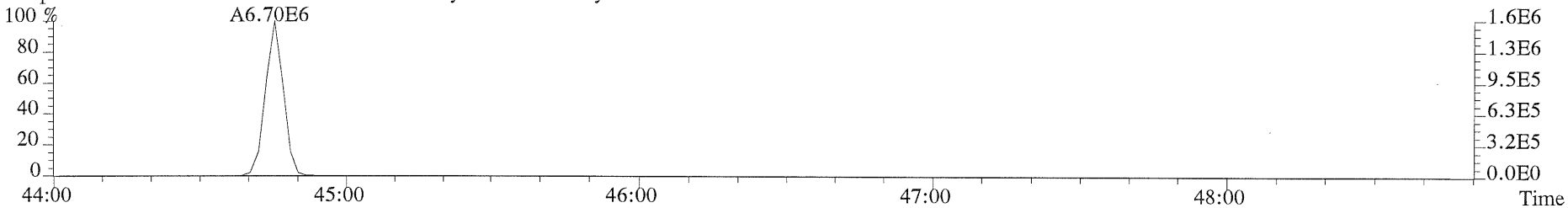
File:19SEP16Z #1-411 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



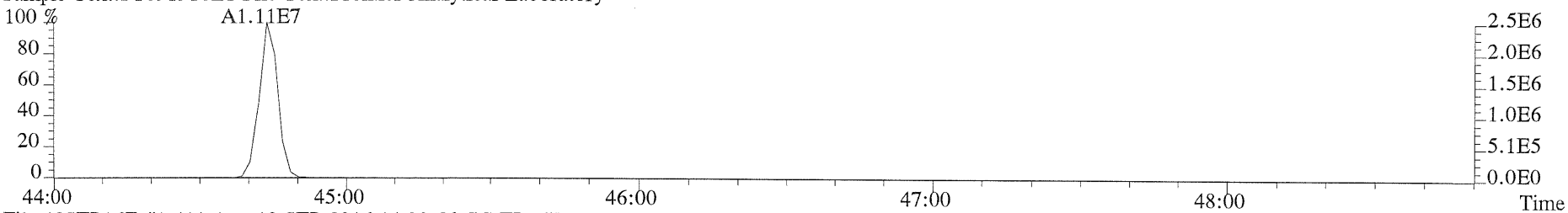
File:19SEP16Z #1-411 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



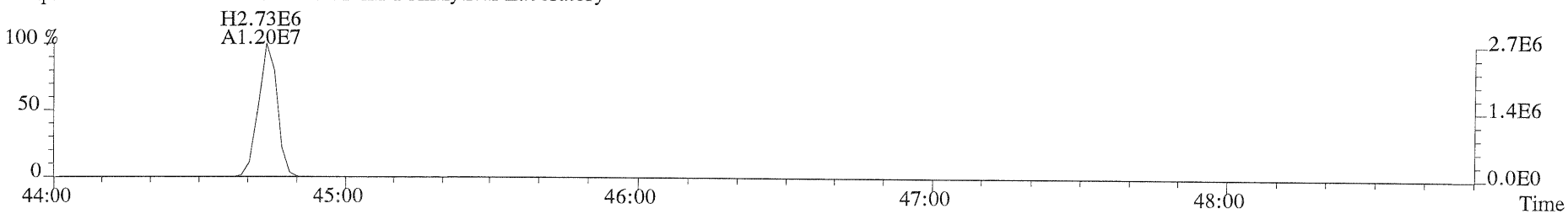
File:19SEP16Z #1-411 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



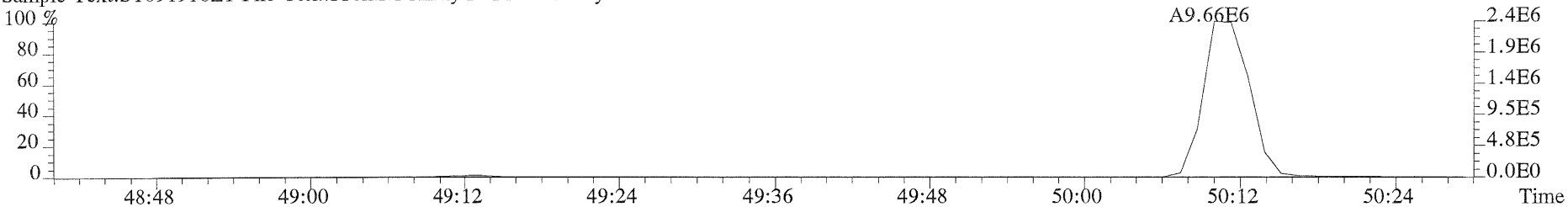
File:19SEP16Z #1-411 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



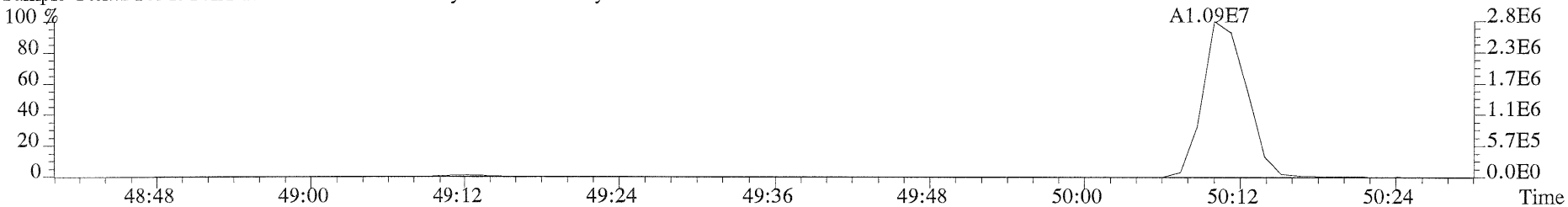
File:19SEP16Z #1-411 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



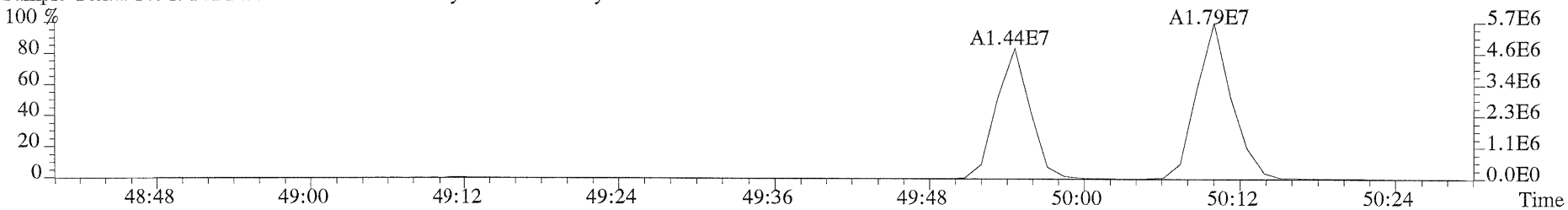
File:19SEP16Z #1-221 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



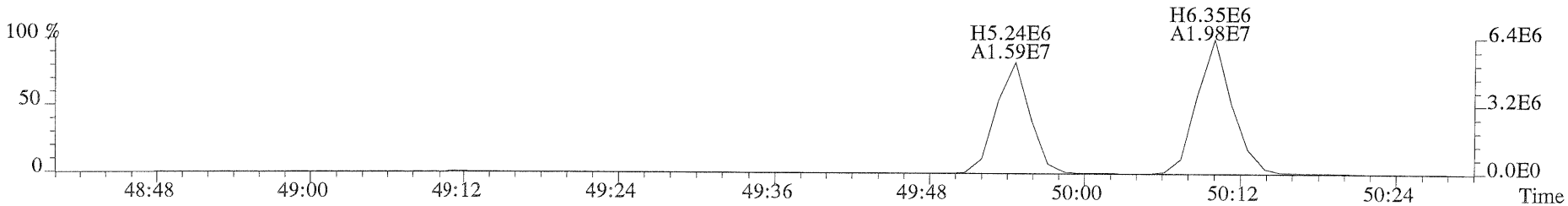
File:19SEP16Z #1-221 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



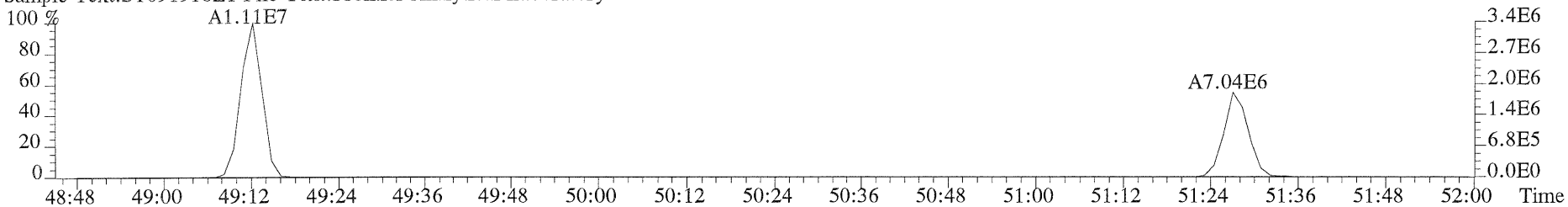
File:19SEP16Z #1-221 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



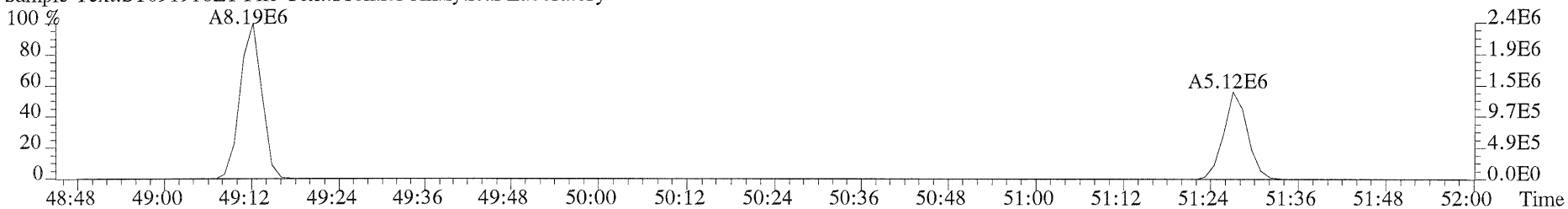
File:19SEP16Z #1-221 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



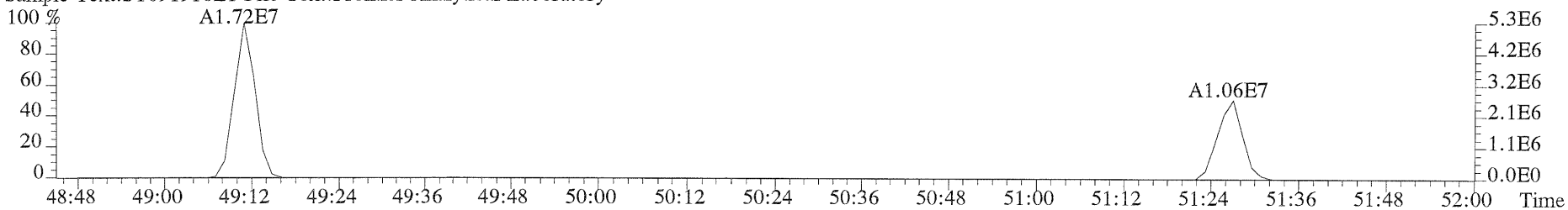
File:19SEP16Z #1-221 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



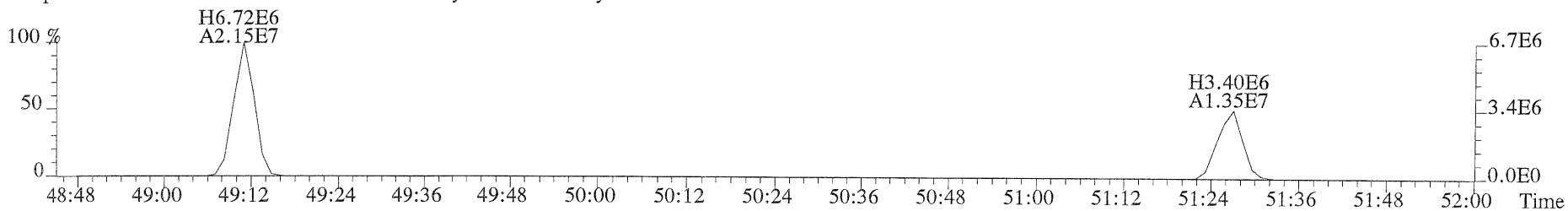
File:19SEP16Z #1-221 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



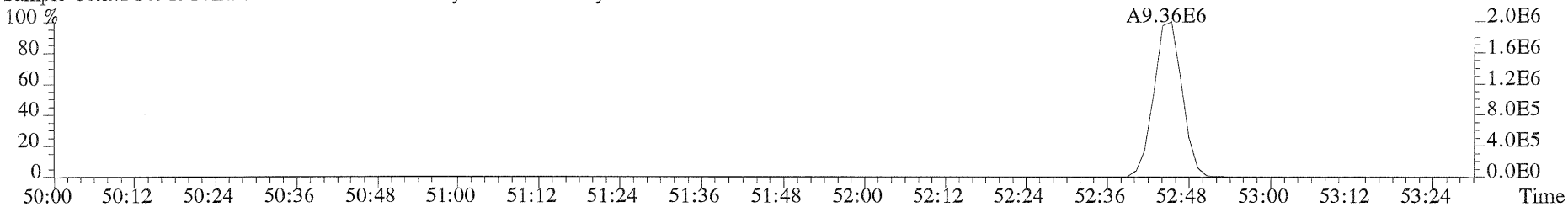
File:19SEP16Z #1-221 Acq:19-SEP-2016 14:30:56 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 14:30:56 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:ST091916Z1 File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 14:30:56 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:ST091916Z1 File Text:Frontier Analytical Laboratory



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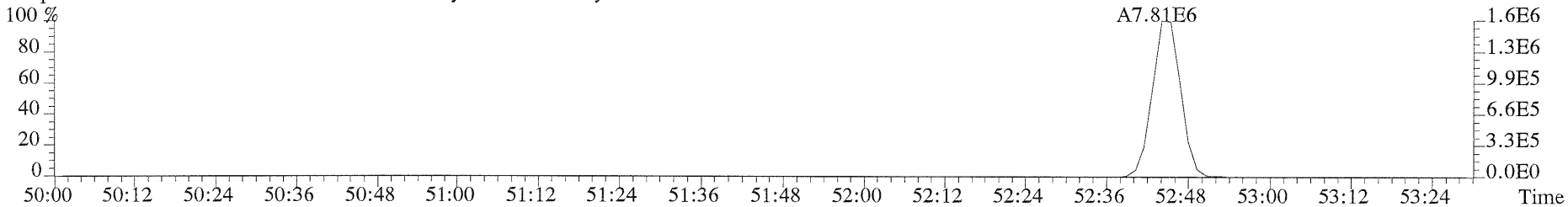
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



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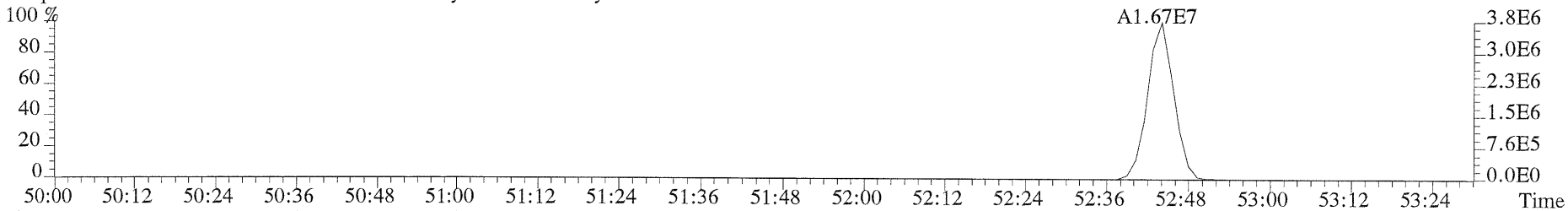
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory



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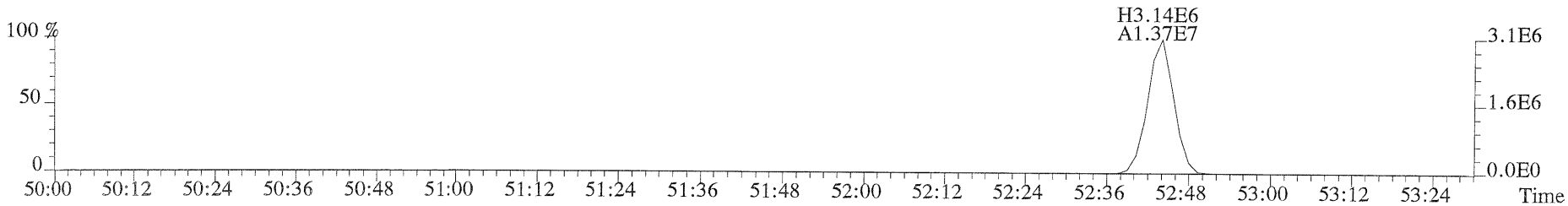
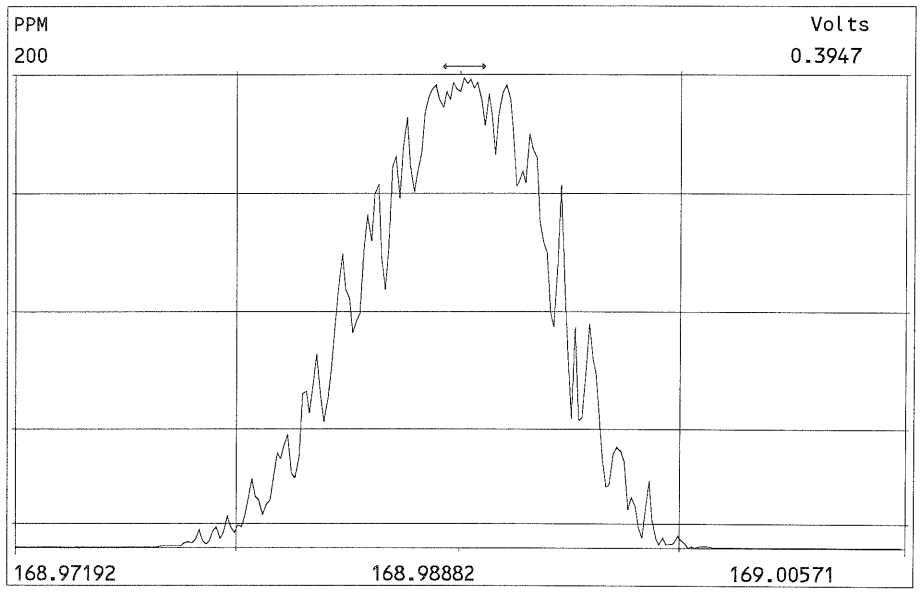
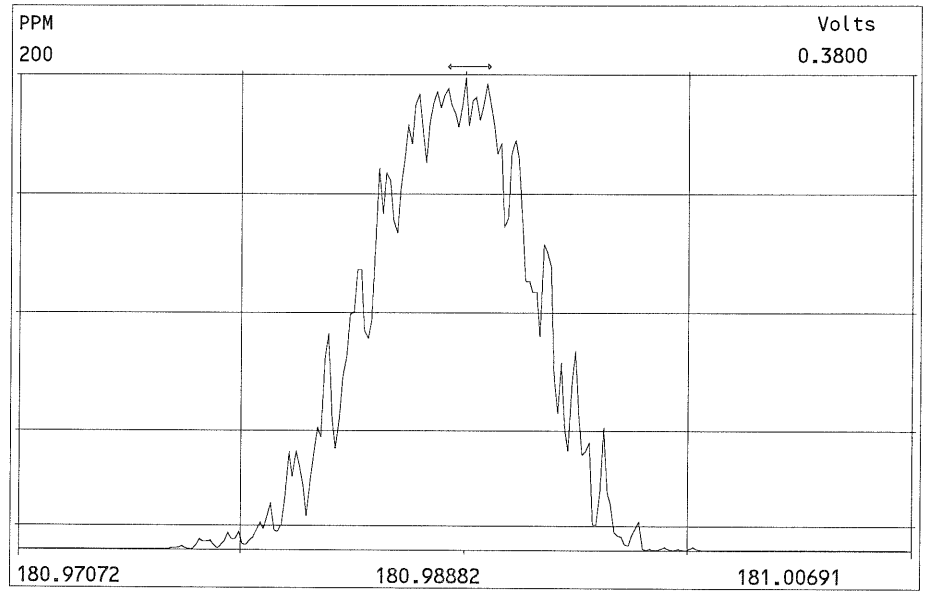
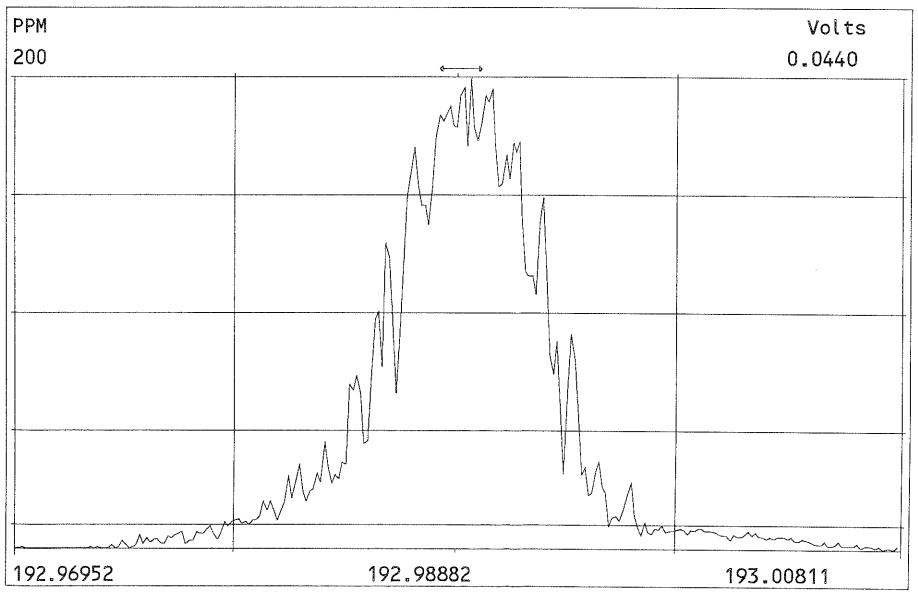
Sample Text:ST091916Z1 File Text:Frontier Analytical Laboratory

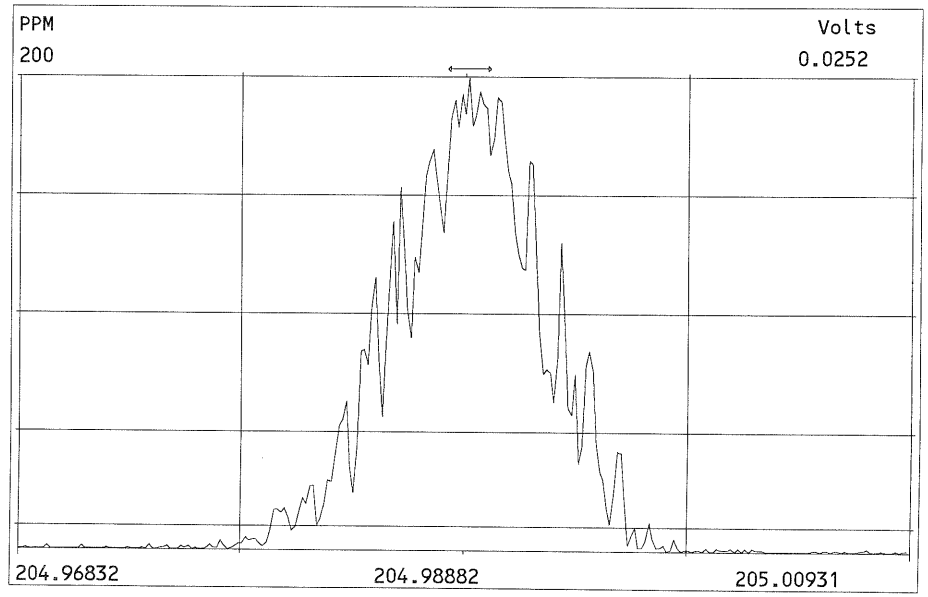


Peak Locate Examination:20-SEP-2016:09:21 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

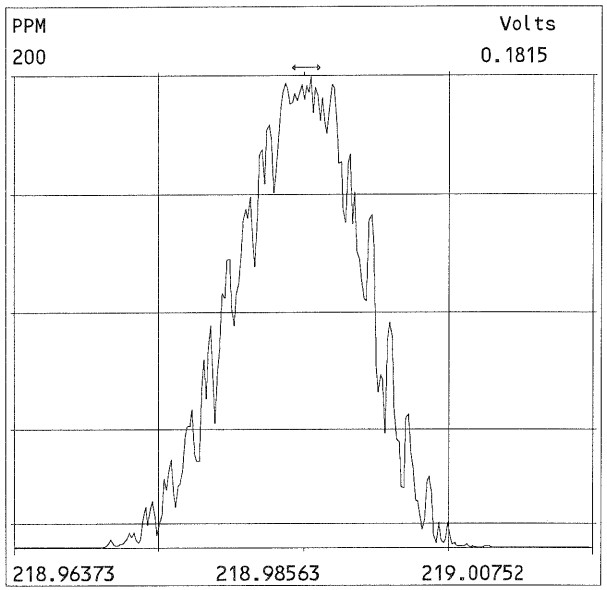


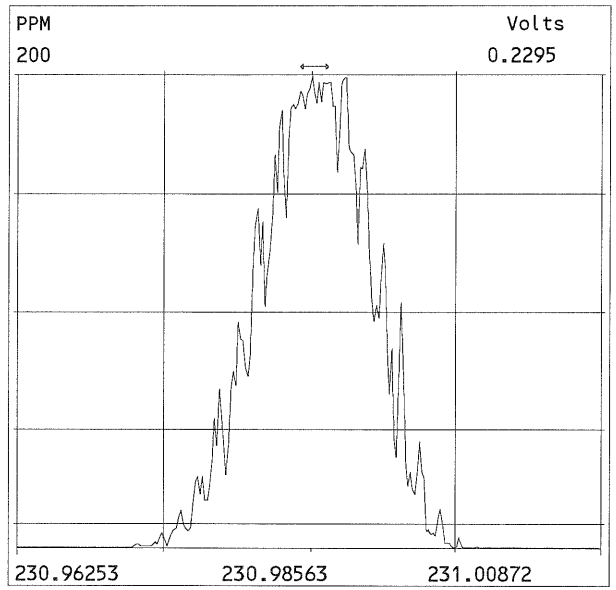


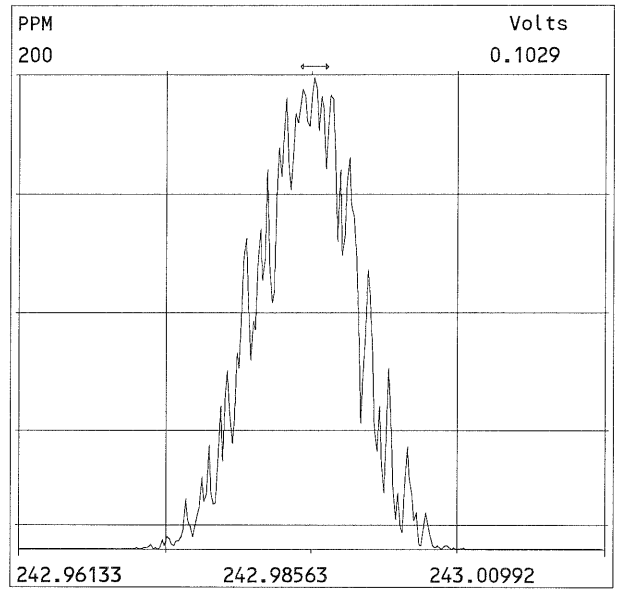


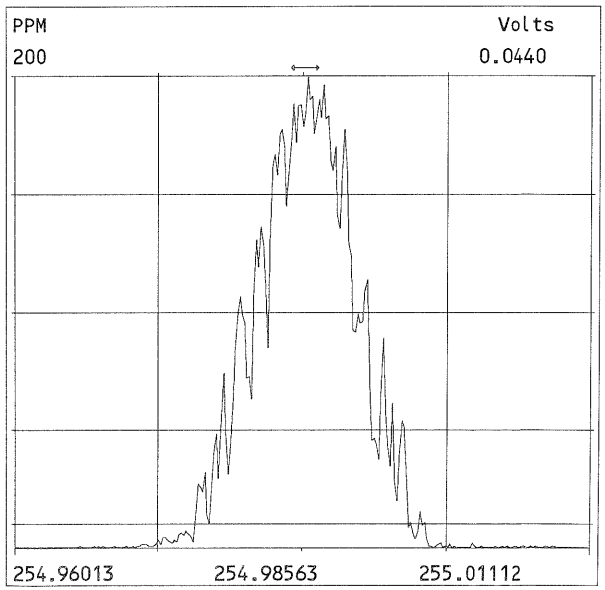


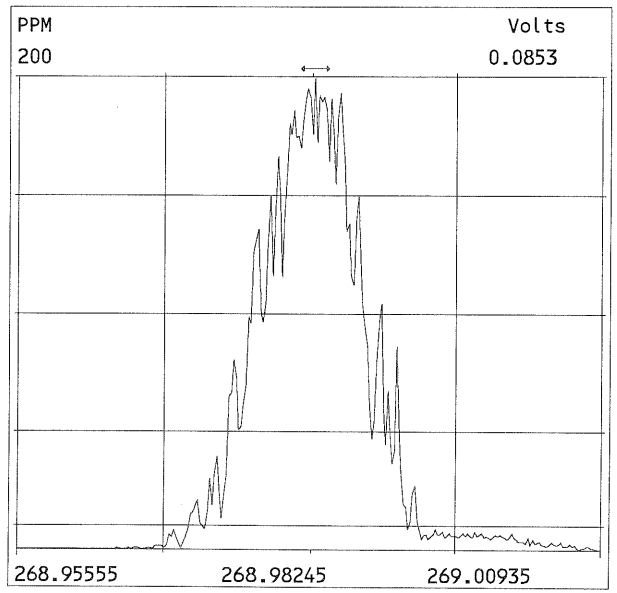
Peak Locate Examination:20-SEP-2016:09:22 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

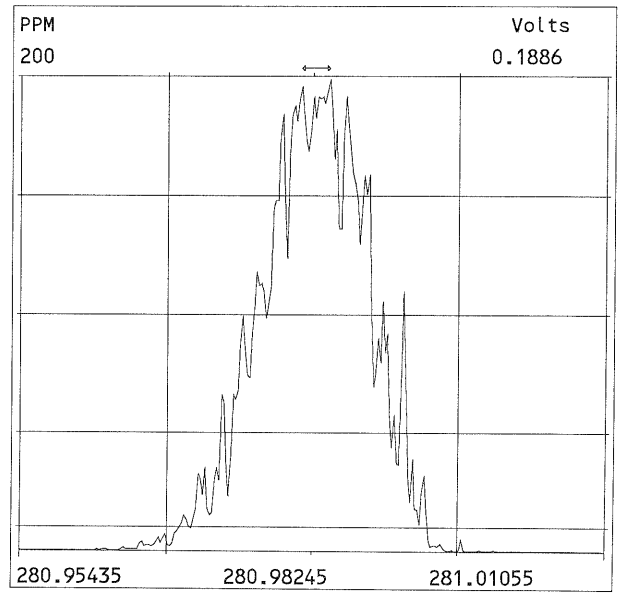




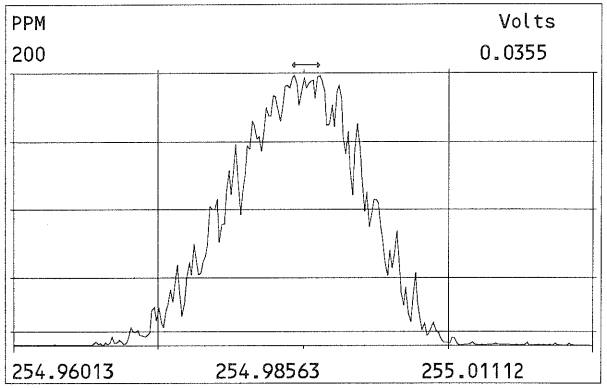


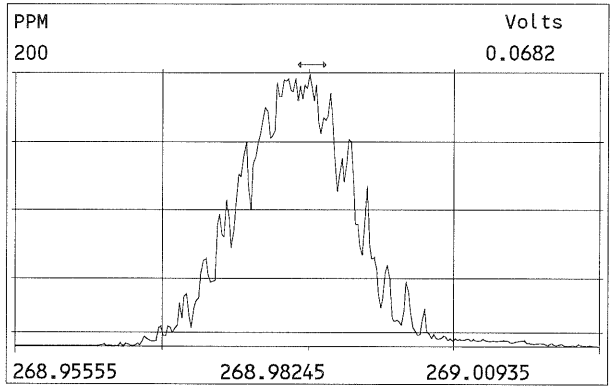


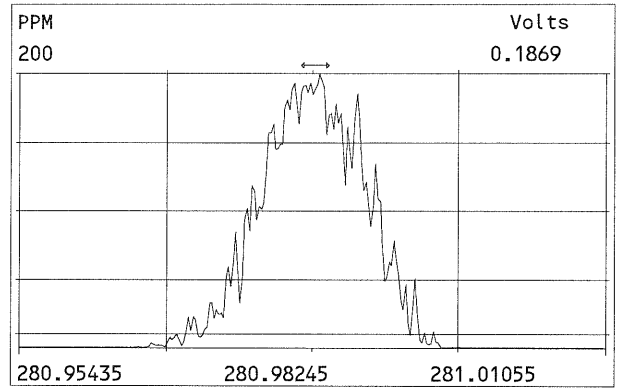


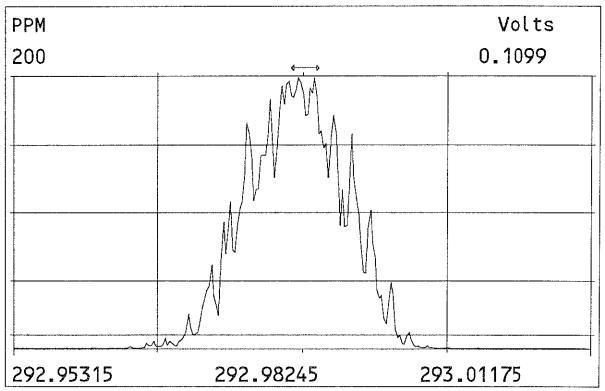


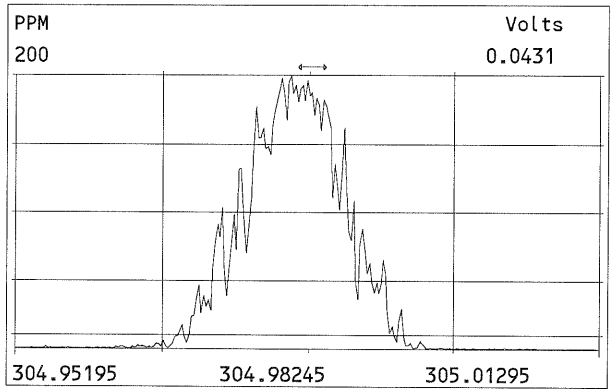
Peak Locate Examination:20-SEP-2016:09:22 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

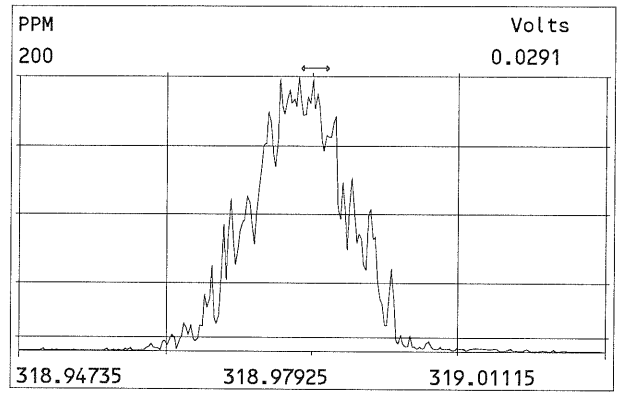


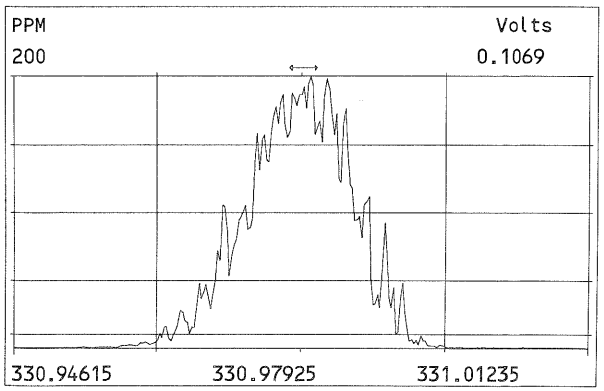


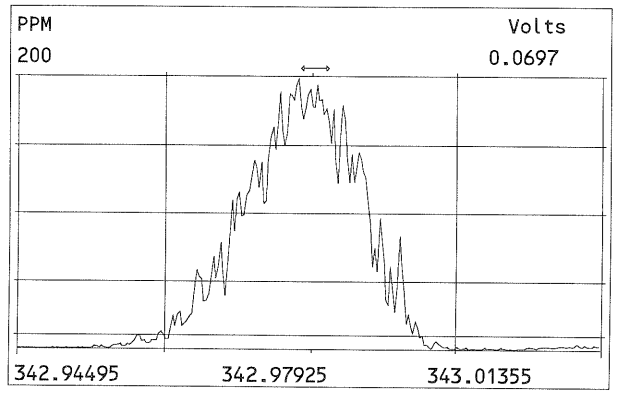




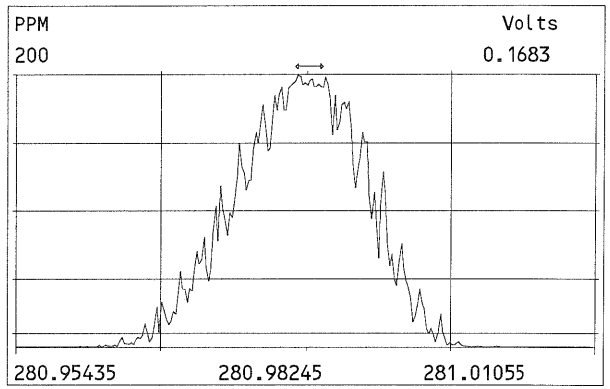


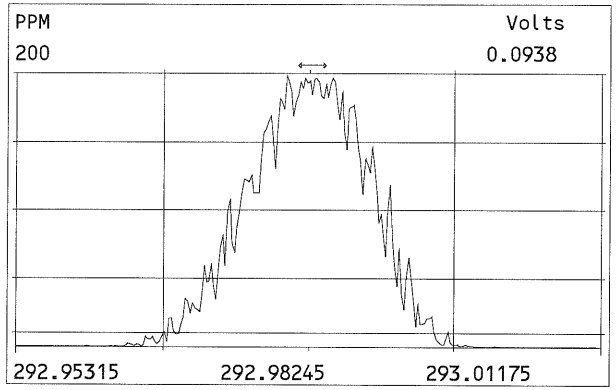


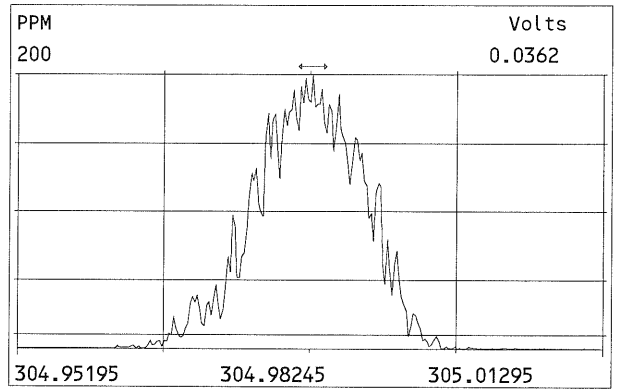


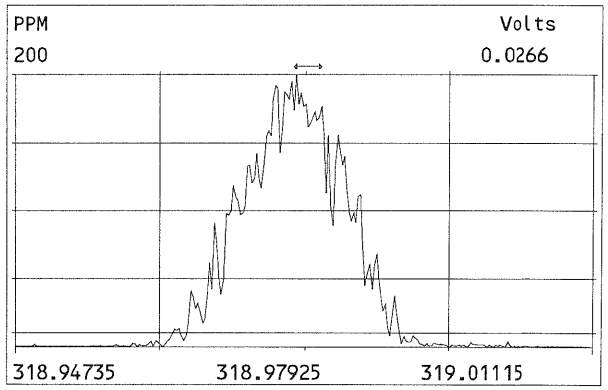


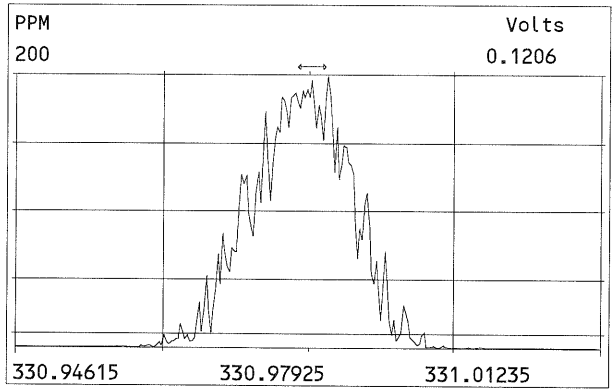
Peak Locate Examination:20-SEP-2016:09:23 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

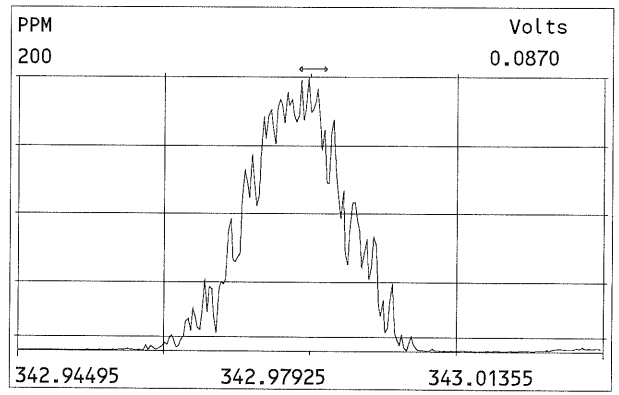


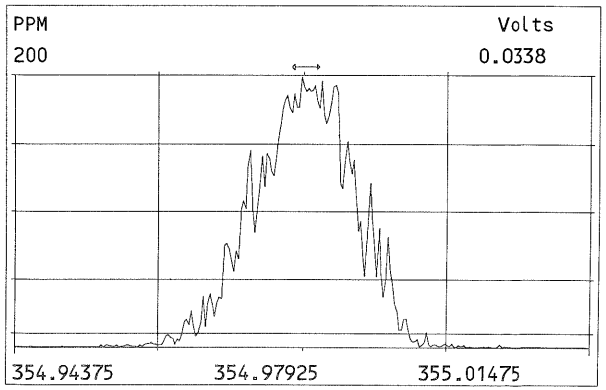


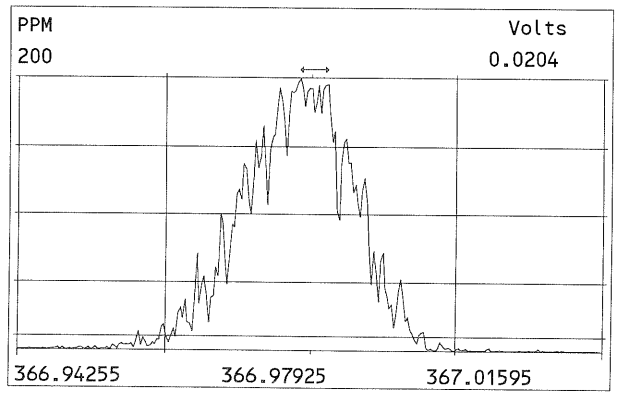


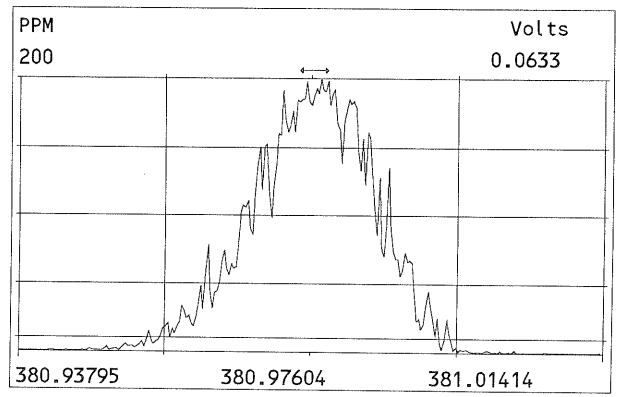




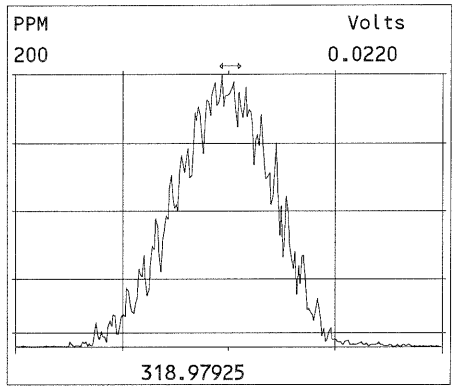


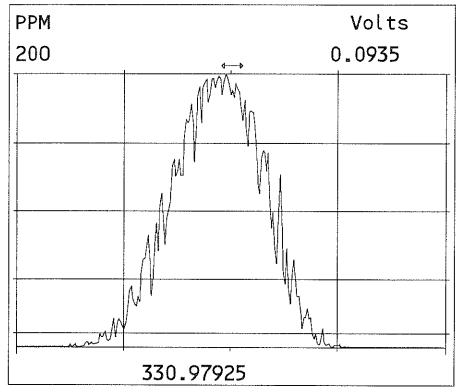


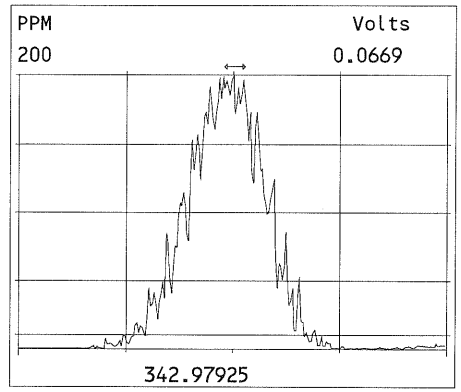


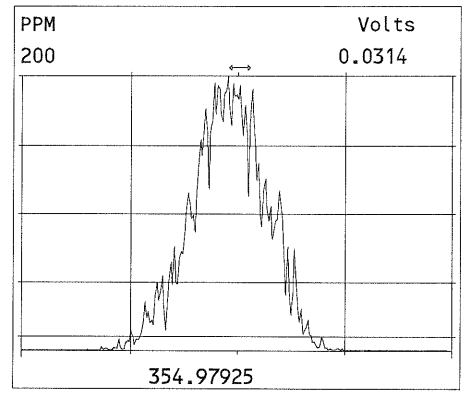


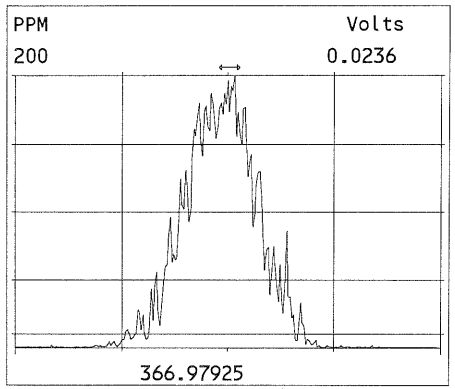
Peak Locate Examination:20-SEP-2016:09:24 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

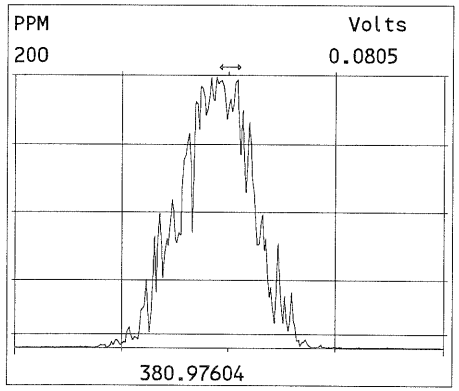


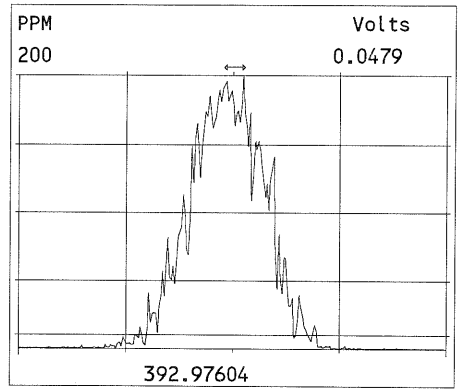


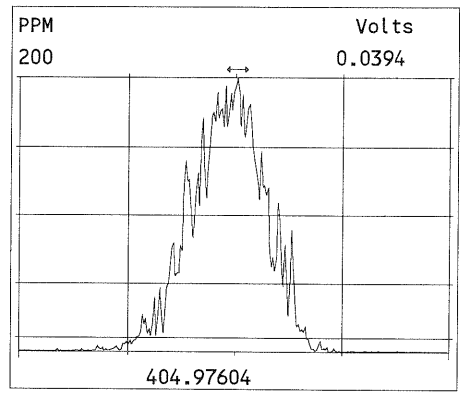


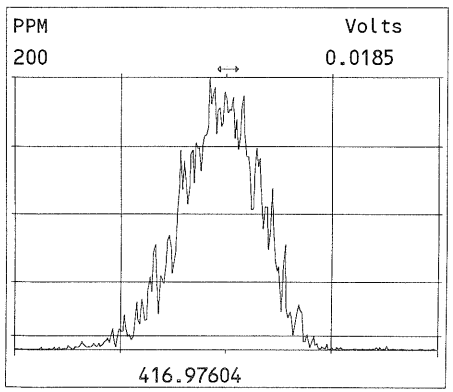


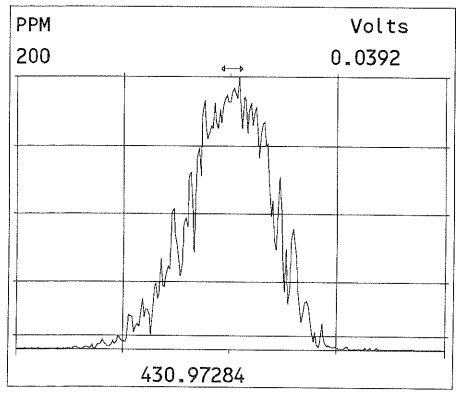


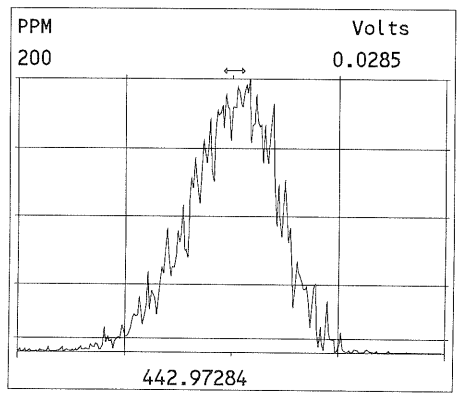




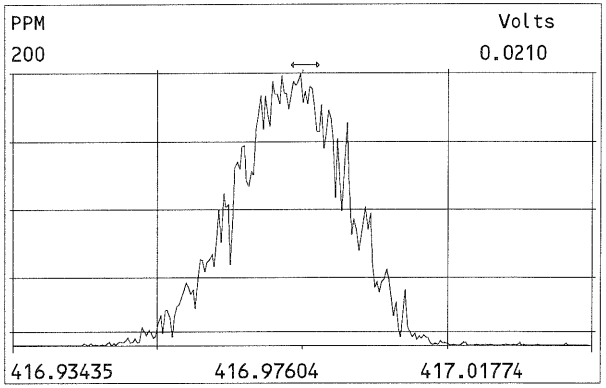


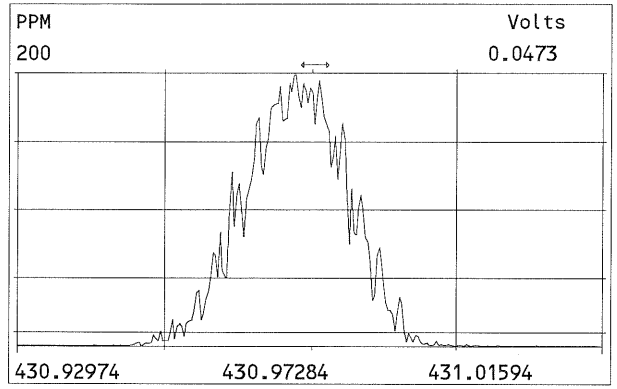


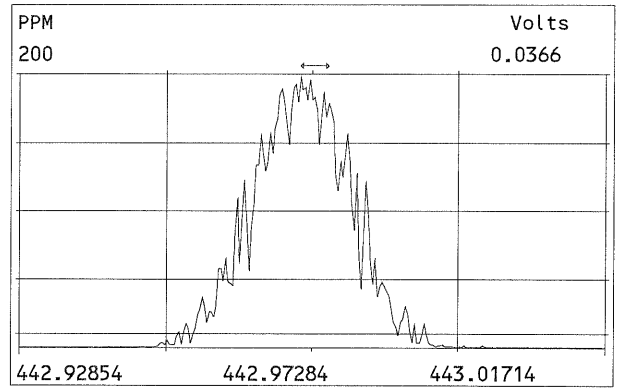


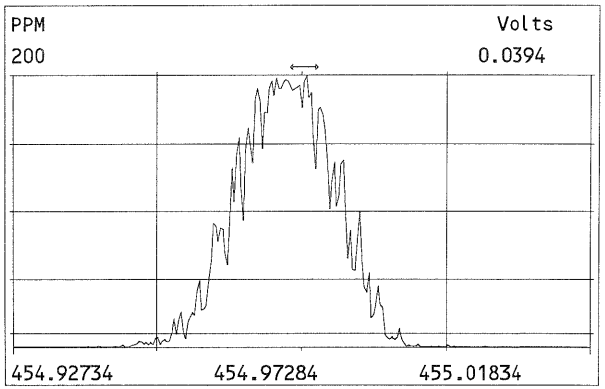


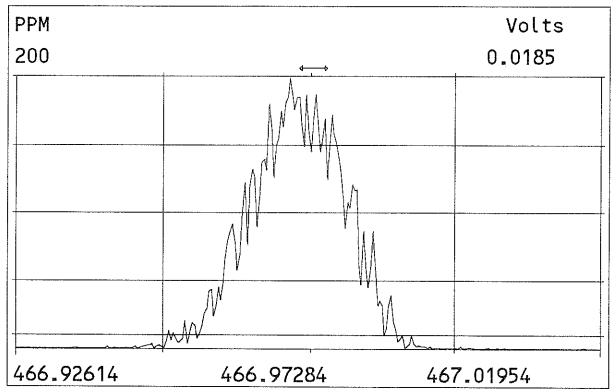
Peak Locate Examination:20-SEP-2016:09:24 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

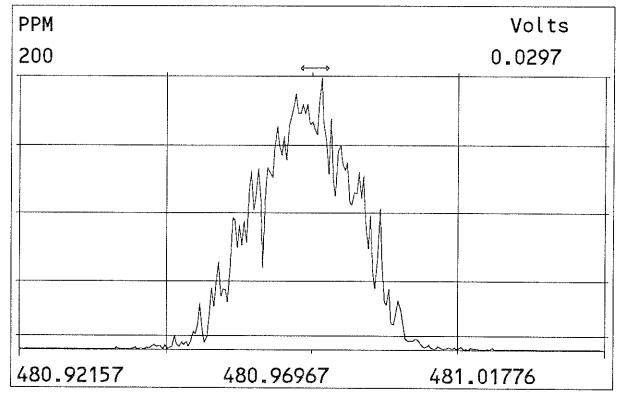


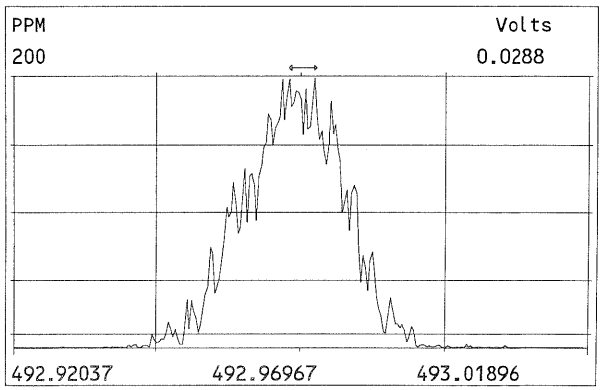


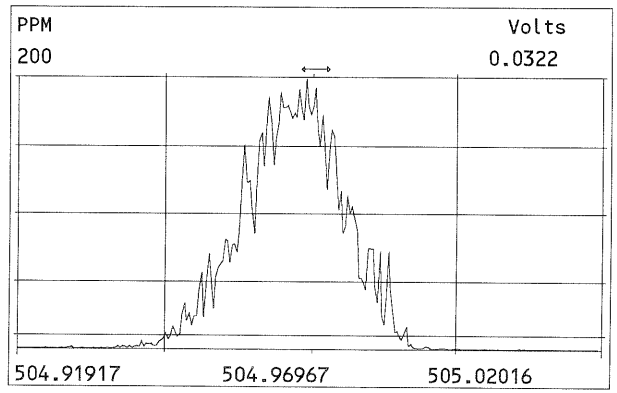


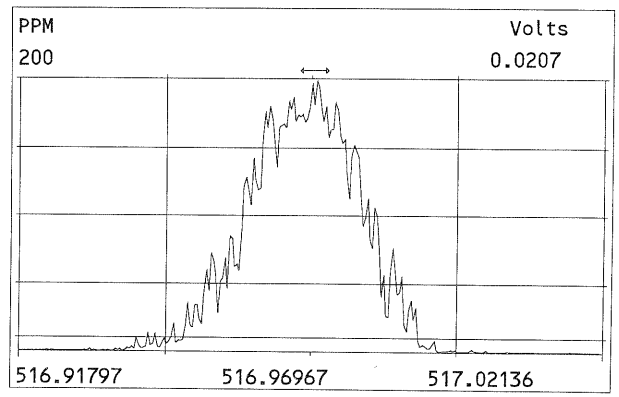












Cal: DAILY209FAL4-9-19-16

Run: 19SEP16Z Analyte: Results: 10146 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:19SEP16Z S2

Name	Mean RRF	S. D.	RRF#1	
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13C-PCB-1	0.9378	-	0.94	
PCB-2	0.9131	-	0.91	
PCB-3	1.2826	-	1.28	
13C-PCB-3	0.8023	-	0.80	
PCB-4	1.1363	-	1.14	
PCB-10	1.3237	-	1.32	
13C-PCB-4	0.6274	-	0.63	
PCB-9	1.3524	*	1.35	
PCB-7	1.5054	-	1.51	
PCB-6	1.4725	-	1.47	
PCB-8	1.2827	*	1.28	
PCB-5	1.5471	-	1.55	
PCB-14	1.3803	-	1.38	
PCB-11	1.1431	-	1.14	
PCB-13	1.1530	-	1.15	
PCB-12	1.2913	-	1.29	
PCB-15	1.3288	-	1.33	
13C-PCB-15	0.8779	-	0.88	
PCB-19	1.2226	-	1.22	
PCB-30	1.7142	-	1.71	
PCB-18	1.1211	-	1.12	
PCB-17	1.2948	-	1.29	
PCB-27	1.6321	*	1.63	
PCB-24	1.6855	*	1.69	
PCB-16	1.2798	-	1.28	
PCB-32	1.5506	-	1.55	
13C-PCB-19	0.4727	-	0.47	
13C-PCB-9	-	-	-	
PCB-34	0.9789	-	0.98	
PCB-23	1.4431	-	1.44	
PCB-29	1.2521	-	1.25	
PCB-26	1.2116	-	1.21	
PCB-25	1.5258	-	1.53	
PCB-31	1.1125	-	1.11	
PCB-28	1.6005	-	1.60	
PCB-20	1.3158	-	1.32	Co-elute PCB 21/33
PCB-21	1.3158	-	1.32	Co-elute PCB 20/33
PCB-33	1.3158	-	1.32	Co-elute PCB 20/21
PCB-22	1.3380	-	1.34	
PCB-36	1.1109	-	1.11	
PCB-39	1.0903	-	1.09	
PCB-38	1.2373	-	1.24	
PCB-35	0.9622	-	0.96	
PCB-37	1.2869	-	1.29	
13C-PCB-37	1.4314	-	1.43	

PCB-54	1.1687	-	1.17	
PCB-50	0.8581	-	0.86	
PCB-53	0.8252	-	0.83	
PCB-51	0.8631	-	0.86	
PCB-45	0.7376	-	0.74	
PCB-46	0.6856	-	0.69	
PCB-52	1.0230	-	1.02	Co-elute PCB 69
PCB-69	1.0230	-	1.02	Co-elute PCB 52
PCB-73	1.0514	-	1.05	
PCB-43	0.7903	-	0.79	Co-elute PCB 49
PCB-49	0.7903	-	0.79	Co-elute PCB 43
PCB-47	0.9628	-	0.96	
PCB-48	1.0475	-	1.05	Co-elute PCB 75
PCB-75	1.0475	-	1.05	Co-elute PCB 48
PCB-65	1.0404	-	1.04	
PCB-62	1.0149	-	1.01	
PCB-44	0.7272	-	0.73	
PCB-42	0.9852	-	0.99	Co-elute PCB 59
PCB-59	0.9852	-	0.99	Co-elute PCB 42
PCB-72	1.0579	-	1.06	Co-elute PCB 41/71/64
PCB-41	1.0579	-	1.06	Co-elute PCB 72/71/64
PCB-71	1.0579	-	1.06	Co-elute PCB 72/41/64
PCB-64	1.0579	-	1.06	Co-elute PCB 72/41/71
PCB-68	1.1204	-	1.12	
PCB-40	0.6363	-	0.64	
PCB-57	1.0554	-	1.06	
PCB-67	1.0626	-	1.06	
PCB-58	1.0321	-	1.03	
PCB-63	1.0690	-	1.07	
PCB-74	1.1083	-	1.11	
PCB-61	1.0850	-	1.08	Co-elute PCB 70
PCB-70	1.0850	-	1.08	Co-elute PCB 61
PCB-76	1.1413	-	1.14	Co-elute PCB 66
PCB-66	1.1413	-	1.14	Co-elute PCB 76
PCB-80	1.2210	-	1.22	
PCB-55	1.0970	-	1.10	
13C-PCB-54	1.2011	-	1.20	
PCB-104	1.2482	-	1.25	
PCB-96	1.1379	-	1.14	
PCB-103	0.9370	-	0.94	
PCB-100	0.9127	-	0.91	
PCB-94	0.7568	-	0.76	
PCB-98	0.9737	-	0.97	Co-elute PCB 102
PCB-102	0.9737	-	0.97	Co-elute PCB 98
PCB-95	0.8045	-	0.80	
PCB-93	0.7785	-	0.78	
PCB-88	0.8073	-	0.81	Co-elute PCB 91
PCB-91	0.8073	-	0.81	Co-elute PCB 88
PCB-121	1.1476	-	1.15	
13C-PCB-104	0.6554	-	0.66	
13C-PCB-28	1.6286	-	1.63	
13C-PCB-52	-	-	-	

PCB-56	1.2372	-	1.24	Co-elute PCB 60
PCB-60	1.2372	-	1.24	Co-elute PCB 56
PCB-79	1.2267	-	1.23	
PCB-78	1.1263	-	1.13	
PCB-81	1.2310	-	1.23	
13C-PCB-81	1.3457	-	1.35	
PCB-77	1.1420	-	1.14	
13C-PCB-77	1.3727	-	1.37	
PCB-155	1.1792	-	1.18	
PCB-150	1.0149	-	1.01	
PCB-152	0.9952	-	1.00	
PCB-145	1.0030	-	1.00	
PCB-136	0.9390	-	0.94	
PCB-148	0.7830	-	0.78	
PCB-154	0.8476	-	0.85	
13C-PCB-155	0.8360	-	0.84	
13C-PCB-111	1.1645	-	1.16	
13C-PCB-101	-	-	-	
PCB-84	0.6807	-	0.68	Co-elute PCB 92
PCB-92	0.6807	-	0.68	Co-elute PCB 84
PCB-89	0.6709	-	0.67	
PCB-90	0.7621	-	0.76	Co-elute PCB 101
PCB-101	0.7621	-	0.76	Co-elute PCB 90
PCB-113	0.8510	-	0.85	
PCB-99	0.8468	-	0.85	
PCB-119	0.9586	-	0.96	
PCB-83	0.7827	-	0.78	Co-elute PCB 112
PCB-112	0.7827	-	0.78	Co-elute PCB 83
PCB-109	0.9225	-	0.92	
PCB-97	0.8161	-	0.82	
PCB-86	0.6602	*	0.66	
PCB-125	0.8505	-	0.85	Co-elute PCB 87/117
PCB-87	0.8505	-	0.85	Co-elute PCB 125/117
PCB-117	0.8505	-	0.85	Co-elute PCB 125/87
PCB-111	1.1346	-	1.13	Co-elute PCB 115
PCB-115	1.1346	-	1.13	Co-elute PCB 111
PCB-85	0.7896	-	0.79	Co-elute PCB 116
PCB-116	0.7896	-	0.79	Co-elute PCB 85
PCB-120	0.9301	-	0.93	
PCB-110	1.0700	-	1.07	
PCB-82	0.5518	-	0.55	
PCB-124	1.0274	-	1.03	
PCB-108	1.1679	-	1.17	Co-elute PCB 107
PCB-107	1.1679	-	1.17	Co-elute PCB 108
PCB-123	1.3399	-	1.34	
13C-PCB-123	1.3372	-	1.34	
PCB-118	1.0822	-	1.08	Co-elute PCB 106
PCB-106	1.0822	-	1.08	Co-elute PCB 118
13C-PCB-118	1.4520	-	1.45	
PCB-114	1.1008	-	1.10	
13C-PCB-114	1.3637	-	1.36	
PCB-122	1.2528	-	1.25	
PCB-105	1.1580	-	1.16	
13C-PCB-105	1.3821	-	1.38	
PCB-127	1.0728	-	1.07	
PCB-126	1.1709	-	1.17	
13C-PCB-126	1.2690	-	1.27	

PCB-151	0.8887	-	0.89	
PCB-135	0.8077	-	0.81	
PCB-144	1.0404	-	1.04	
PCB-147	0.9646	-	0.96	
PCB-139	0.9822	-	0.98	Co-elute PCB 149
PCB-149	0.9822	-	0.98	Co-elute PCB 139
PCB-140	0.9644	*	0.96	
PCB-143	0.8911	-	0.89	Co-elute PCB 134
PCB-134	0.8911	-	0.89	Co-elute PCB 143
PCB-131	0.9119	-	0.91	Co-elute PCB 133
PCB-133	0.9119	-	0.91	Co-elute PCB 131
PCB-142	0.7918	-	0.79	
PCB-165	1.0741	-	1.07	Co-elute PCB 146
PCB-146	1.0741	-	1.07	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	1.0450	-	1.05	
PCB-168	1.1763	-	1.18	
PCB-141	0.8852	-	0.89	
PCB-137	0.8509	-	0.85	
PCB-130	0.7909	-	0.79	
PCB-138	1.1877	-	1.19	Co-elute PCB 163/164
PCB-163	1.1877	-	1.19	Co-elute PCB 138/164
PCB-164	1.1877	-	1.19	Co-elute PCB 138/163
PCB-158	1.1759	*	1.18	Co-elute PCB 160
PCB-160	1.1759	*	1.18	Co-elute PCB 158
PCB-129	0.7321	-	0.73	
PCB-166	1.1050	-	1.11	
PCB-159	1.2042	-	1.20	
PCB-128	0.9951	-	1.00	Co-elute PCB 162
PCB-162	0.9951	-	1.00	Co-elute PCB 128
PCB-167	1.0607	-	1.06	
13C-PCB-167	1.1453	-	1.15	
PCB-156	1.1225	-	1.12	
13C-PCB-156	1.1020	-	1.10	
PCB-157	1.1277	-	1.13	
13C-PCB-157	1.1295	-	1.13	
PCB-169	1.0748	-	1.07	
13C-PCB-169	1.0519	-	1.05	
PCB-188	1.2472	-	1.25	
13C-PCB-188	0.9375	-	0.94	

PCB-184	1.3949	-	1.39	
PCB-179	1.3060	-	1.31	
PCB-176	1.2789	-	1.28	
PCB-186	1.2787	-	1.28	
PCB-178	0.8851	-	0.89	
PCB-175	0.9341	-	0.93	
PCB-187	1.0154	-	1.02	Co-elute PCB 182
PCB-182	1.0154	-	1.02	Co-elute PCB 187
PCB-183	1.0193	-	1.02	
PCB-185	0.9143	-	0.91	
PCB-174	0.9383	-	0.94	
PCB-181	0.8742	-	0.87	
PCB-177	0.8013	-	0.80	
PCB-171	0.8904	-	0.89	
PCB-173	0.7926	-	0.79	
PCB-172	0.7990	-	0.80	
PCB-192	1.0887	-	1.09	
PCB-180	1.0648	-	1.06	
PCB-193	1.1649	-	1.16	
PCB-191	1.1078	-	1.11	
PCB-170	0.7681	-	0.77	
PCB-190	1.0660	-	1.07	
PCB-189	1.2251	-	1.23	
13C-PCB-189	0.6998	-	0.70	
PCB-202	1.0458	-	1.05	
PCB-201	1.0536	-	1.05	
PCB-204	1.0491	-	1.05	
PCB-197	1.0850	-	1.09	
PCB-200	1.0101	-	1.01	
PCB-198	0.7013	-	0.70	
PCB-199	0.6965	-	0.70	
PCB-203	0.7766	-	0.78	Co-elute PCB 196
PCB-196	0.7766	-	0.78	Co-elute PCB 203
13C-PCB-202	0.5671	-	0.57	
13C-PCB-178	0.5977	-	0.60	
13C-PCB-138	-	-	-	
PCB-195	0.7377	-	0.74	
PCB-194	0.8205	-	0.82	
PCB-205	1.0739	-	1.07	
13C-PCB-205	1.2722	-	1.27	
PCB-208	1.0329	-	1.03	
13C-PCB-208	1.1435	-	1.14	
PCB-207	1.1452	-	1.15	
PCB-206	1.0448	-	1.04	
13C-PCB-206	0.7530	-	0.75	
PCB-209	1.1584	-	1.16	
13C-PCB-209	0.9257	-	0.93	
13C-PCB-194	-	-	-	

Analyst: _____ Date: 9/20/16

Run #1 Filename 19SEP16Z S: 2 Acquired: 19-SEP-16 15:27:23 Cal: DAILY209FAL4-9-19-16
Client ID: SS091916Z1 Analyte: FAL ID: Daily 209 160711B

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	5.13e+07	3.15 y	14:27	-	1.12	
2	IS/RT	13C-PCB-1	100.00	9.20e+07	3.17 y	14:26	-	0.938	
3	Unk	PCB-2	50.00	3.90e+07	3.09 y	16:41	-	0.913	
4	Unk	PCB-3	50.00	5.05e+07	3.14 y	16:55	-	1.28	
5	IS/RT	13C-PCB-3	100.00	7.87e+07	3.22 y	16:54	-	0.802	
6	Unk	PCB-4	50.00	3.50e+07	1.49 y	18:08	-	1.14	
7	Unk	PCB-10	50.00	4.89e+07	1.52 y	18:10	-	1.32	
8	IS/RT	13C-PCB-4	100.00	6.15e+07	1.58 y	18:06	-	0.627	
9	Unk	PCB-9	50.00	4.99e+07	1.57 y	19:50	-	1.35	
10	Unk	PCB-7	50.00	5.56e+07	1.59 y	19:51	-	1.51	
11	Unk	PCB-6	50.00	5.44e+07	1.63 y	20:27	-	1.47	
12	Unk	PCB-8	50.00	4.73e+07	1.56 y	20:50	-	1.28	
13	Unk	PCB-5	50.00	5.71e+07	1.53 y	20:51	-	1.55	
14	Unk	PCB-14	50.00	5.09e+07	1.51 y	21:53	-	1.38	
15	Unk	PCB-11	50.00	4.22e+07	1.55 y	23:02	-	1.14	
16	Unk	PCB-13	50.00	4.26e+07	1.54 y	23:24	-	1.15	
17	Unk	PCB-12	50.00	4.77e+07	1.57 y	23:25	-	1.29	
18	Unk	PCB-15	50.00	5.72e+07	1.50 y	23:41	-	1.33	
19	IS/RT	13C-PCB-15	100.00	8.61e+07	1.62 y	23:40	-	0.878	
20	Unk	PCB-19	50.00	2.83e+07	1.05 y	22:00	-	1.22	
21	Unk	PCB-30	50.00	3.97e+07	1.05 y	22:51	-	1.71	
22	Unk	PCB-18	50.00	2.60e+07	1.05 y	23:33	-	1.12	
23	Unk	PCB-17	50.00	3.00e+07	1.06 y	23:43	-	1.29	
24	Unk	PCB-27	50.00	3.78e+07	1.07 y	24:15	-	1.63	
25	Unk	PCB-24	50.00	3.91e+07	1.04 y	24:16	-	1.69	
26	Unk	PCB-16	50.00	2.97e+07	1.02 y	24:44	-	1.28	
27	Unk	PCB-32	50.00	3.59e+07	1.07 y	24:45	-	1.55	
28	IS/RT	13C-PCB-19	100.00	4.64e+07	1.08 y	21:59	-	0.473	
29	RS	13C-PCB-9	100.00	9.81e+07	1.59 y	19:47	9.81e+05	-	
30	Unk	PCB-34	50.00	3.74e+07	1.04 y	25:30	-	0.979	
31	Unk	PCB-23	50.00	5.51e+07	1.06 y	25:36	-	1.44	
32	Unk	PCB-29	50.00	4.78e+07	1.05 y	25:50	-	1.25	
33	Unk	PCB-26	50.00	4.63e+07	1.06 y	26:02	-	1.21	
34	Unk	PCB-25	50.00	5.83e+07	1.06 y	26:12	-	1.53	
35	Unk	PCB-31	50.00	4.25e+07	1.03 y	26:32	-	1.11	
36	Unk	PCB-28	50.00	6.11e+07	1.07 y	26:37	-	1.60	
37	Unk	PCB-20	150.00	1.51e+08	1.07 y	27:11	-	1.32	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	1.51e+08	1.07 y	27:11	-	1.32	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	1.51e+08	1.07 y	27:11	-	1.32	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	5.11e+07	1.08 y	27:38	-	1.34	
41	Unk	PCB-36	50.00	4.24e+07	1.08 y	28:14	-	1.11	
42	Unk	PCB-39	50.00	4.16e+07	1.09 y	28:42	-	1.09	
43	Unk	PCB-38	50.00	4.72e+07	1.12 y	29:25	-	1.24	
44	Unk	PCB-35	50.00	3.67e+07	1.14 y	29:56	-	0.962	
45	Unk	PCB-37	50.00	4.91e+07	1.13 y	30:21	-	1.29	
46	IS	13C-PCB-37	100.00	7.64e+07	1.10 y	30:20	-	1.43	

47	Unk	PCB-54	100.00	7.49e+07	0.79 y	25:31	-	1.17	
48	Unk	PCB-50	100.00	5.50e+07	0.77 y	26:38	-	0.858	
49	Unk	PCB-53	100.00	5.29e+07	0.77 y	27:15	-	0.825	
50	Unk	PCB-51	100.00	5.53e+07	0.78 y	27:34	-	0.863	
51	Unk	PCB-45	100.00	4.73e+07	0.78 y	27:59	-	0.738	
52	Unk	PCB-46	100.00	4.39e+07	0.77 y	28:26	-	0.686	
53	Unk	PCB-52	200.00	1.31e+08	0.76 y	28:54	-	1.02	Co-elute PCB 69
54	Unk	PCB-69	200.00	1.31e+08	0.76 y	28:54	-	1.02	Co-elute PCB 52
55	Unk	PCB-73	100.00	6.74e+07	0.79 y	29:00	-	1.05	
56	Unk	PCB-43	200.00	1.01e+08	0.78 y	29:10	-	0.790	Co-elute PCB 49
57	Unk	PCB-49	200.00	1.01e+08	0.78 y	29:10	-	0.790	Co-elute PCB 43
58	Unk	PCB-47	100.00	6.17e+07	0.76 y	29:21	-	0.963	
59	Unk	PCB-48	200.00	1.34e+08	0.77 y	29:28	-	1.05	Co-elute PCB 75
60	Unk	PCB-75	200.00	1.34e+08	0.77 y	29:28	-	1.05	Co-elute PCB 48
61	Unk	PCB-65	100.00	6.67e+07	0.76 y	29:43	-	1.04	
62	Unk	PCB-62	100.00	6.50e+07	0.78 y	29:49	-	1.01	
63	Unk	PCB-44	100.00	4.66e+07	0.77 y	30:07	-	0.727	
64	Unk	PCB-42	200.00	1.26e+08	0.78 y	30:20	-	0.985	Co-elute PCB 59
65	Unk	PCB-59	200.00	1.26e+08	0.78 y	30:20	-	0.985	Co-elute PCB 42
66	Unk	PCB-72	400.00	2.71e+08	0.77 y	30:52	-	1.06	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	2.71e+08	0.77 y	30:52	-	1.06	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	2.71e+08	0.77 y	30:52	-	1.06	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	2.71e+08	0.77 y	30:52	-	1.06	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	7.18e+07	0.77 y	31:08	-	1.12	
71	Unk	PCB-40	100.00	4.08e+07	0.78 y	31:20	-	0.636	
72	Unk	PCB-57	100.00	6.76e+07	0.78 y	31:41	-	1.06	
73	Unk	PCB-67	100.00	6.81e+07	0.77 y	31:58	-	1.06	
74	Unk	PCB-58	100.00	6.61e+07	0.79 y	32:05	-	1.03	
75	Unk	PCB-63	100.00	6.85e+07	0.77 y	32:13	-	1.07	
76	Unk	PCB-74	100.00	7.10e+07	0.77 y	32:31	-	1.11	
77	Unk	PCB-61	200.00	1.39e+08	0.78 y	32:42	-	1.08	Co-elute PCB 70
78	Unk	PCB-70	200.00	1.39e+08	0.78 y	32:42	-	1.08	Co-elute PCB 61
79	Unk	PCB-76	200.00	1.46e+08	0.78 y	32:54	-	1.14	Co-elute PCB 66
80	Unk	PCB-66	200.00	1.46e+08	0.78 y	32:54	-	1.14	Co-elute PCB 76
81	Unk	PCB-80	100.00	7.82e+07	0.78 y	33:06	-	1.22	
82	Unk	PCB-55	100.00	7.03e+07	0.77 y	33:24	-	1.10	
83	IS/RT	13C-PCB-54	100.00	6.41e+07	0.80 y	25:30	-	1.20	
84	Unk	PCB-104	100.00	4.36e+07	1.59 y	29:58	-	1.25	
85	Unk	PCB-96	100.00	3.98e+07	1.59 y	31:09	-	1.14	
86	Unk	PCB-103	100.00	3.28e+07	1.60 y	31:41	-	0.937	
87	Unk	PCB-100	100.00	3.19e+07	1.60 y	32:01	-	0.913	
88	Unk	PCB-94	100.00	2.65e+07	1.59 y	32:26	-	0.757	
89	Unk	PCB-98	200.00	6.81e+07	1.54 y	32:54	-	0.974	Co-elute PCB 102
90	Unk	PCB-102	200.00	6.81e+07	1.54 y	32:54	-	0.974	Co-elute PCB 98
91	Unk	PCB-95	100.00	2.81e+07	1.67 y	32:56	-	0.805	
92	Unk	PCB-93	100.00	2.72e+07	1.65 y	33:01	-	0.779	
93	Unk	PCB-88	200.00	5.65e+07	1.58 y	33:19	-	0.807	Co-elute PCB 91
94	Unk	PCB-91	200.00	5.65e+07	1.58 y	33:19	-	0.807	Co-elute PCB 88
95	Unk	PCB-121	100.00	4.01e+07	1.63 y	33:24	-	1.15	
96	IS	13C-PCB-104	100.00	3.50e+07	1.60 y	29:56	-	0.655	
97	C/Up	13C-PCB-28	100.00	8.69e+07	1.05 y	26:36	-	1.63	
98	RS	13C-PCB-52	100.00	5.34e+07	0.80 y	28:51	5.34e+05	-	
99	Unk	PCB-56	200.00	1.53e+08	0.78 y	33:53	-	1.24	Co-elute PCB 60
100	Unk	PCB-60	200.00	1.53e+08	0.78 y	33:53	-	1.24	Co-elute PCB 56

101	Unk	PCB-79	100.00	7.59e+07	0.79 y	34:56	-	1.23	
102	Unk	PCB-78	100.00	6.97e+07	0.79 y	35:35	-	1.13	
103	Unk	PCB-81	100.00	7.54e+07	0.80 y	36:06	-	1.23	
104	IS	13C-PCB-81	100.00	6.12e+07	0.80 y	36:04	-	1.35	
105	Unk	PCB-77	100.00	7.13e+07	0.80 y	36:40	-	1.14	
106	IS/RT	13C-PCB-77	100.00	6.25e+07	0.80 y	36:39	-	1.37	
107	Unk	PCB-155	100.00	4.49e+07	1.27 y	34:07	-	1.18	
108	Unk	PCB-150	100.00	3.86e+07	1.26 y	35:19	-	1.01	
109	Unk	PCB-152	100.00	3.79e+07	1.27 y	35:46	-	0.995	
110	Unk	PCB-145	100.00	3.82e+07	1.27 y	36:11	-	1.00	
111	Unk	PCB-136	100.00	3.57e+07	1.27 y	36:30	-	0.939	
112	Unk	PCB-148	100.00	2.98e+07	1.30 y	36:35	-	0.783	
113	Unk	PCB-154	100.00	3.22e+07	1.27 y	37:04	-	0.848	
114	IS	13C-PCB-155	100.00	3.80e+07	1.26 y	34:06	-	0.836	
115	C/Up	13C-PCB-111	100.00	5.30e+07	1.60 y	36:11	-	1.16	
116	RS	13C-PCB-101	100.00	4.55e+07	1.61 y	34:32	4.55e+05	-	
117	Unk	PCB-84	200.00	8.21e+07	1.58 y	34:12	-	0.681	Co-elute PCB 92
118	Unk	PCB-92	200.00	8.21e+07	1.58 y	34:12	-	0.681	Co-elute PCB 84
119	Unk	PCB-89	100.00	4.04e+07	1.61 y	34:23	-	0.671	
120	Unk	PCB-90	200.00	9.19e+07	1.56 y	34:33	-	0.762	Co-elute PCB 101
121	Unk	PCB-101	200.00	9.19e+07	1.56 y	34:33	-	0.762	Co-elute PCB 90
122	Unk	PCB-113	100.00	5.13e+07	1.57 y	34:47	-	0.851	
123	Unk	PCB-99	100.00	5.10e+07	1.60 y	34:52	-	0.847	
124	Unk	PCB-119	100.00	5.78e+07	1.56 y	35:19	-	0.959	
125	Unk	PCB-83	200.00	9.44e+07	1.56 y	35:28	-	0.783	Co-elute PCB 112
126	Unk	PCB-112	200.00	9.44e+07	1.56 y	35:28	-	0.783	Co-elute PCB 83
127	Unk	PCB-109	100.00	5.56e+07	1.57 y	35:38	-	0.922	
128	Unk	PCB-97	100.00	4.92e+07	1.57 y	35:48	-	0.816	
129	Unk	PCB-86	100.00	3.98e+07	1.52 y	35:57	-	0.660	
130	Unk	PCB-125	300.00	1.54e+08	1.57 y	36:04	-	0.851	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	1.54e+08	1.57 y	36:04	-	0.851	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	1.54e+08	1.57 y	36:04	-	0.851	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	1.37e+08	1.56 y	36:13	-	1.13	Co-elute PCB 115
134	Unk	PCB-115	200.00	1.37e+08	1.56 y	36:13	-	1.13	Co-elute PCB 111
135	Unk	PCB-85	200.00	9.52e+07	1.57 y	36:20	-	0.790	Co-elute PCB 116
136	Unk	PCB-116	200.00	9.52e+07	1.57 y	36:20	-	0.790	Co-elute PCB 85
137	Unk	PCB-120	100.00	5.61e+07	1.55 y	36:34	-	0.930	
138	Unk	PCB-110	100.00	6.45e+07	1.56 y	36:41	-	1.07	
139	Unk	PCB-82	100.00	3.33e+07	1.56 y	37:18	-	0.552	
140	Unk	PCB-124	100.00	6.19e+07	1.52 y	37:57	-	1.03	
141	Unk	PCB-108	200.00	1.41e+08	1.55 y	38:05	-	1.17	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.41e+08	1.55 y	38:05	-	1.17	Co-elute PCB 108
143	Unk	PCB-123	100.00	7.81e+07	1.54 y	38:15	-	1.34	
144	IS	13C-PCB-123	100.00	5.83e+07	1.60 y	38:15	-	1.34	
145	Unk	PCB-118	200.00	1.37e+08	1.56 y	38:27	-	1.08	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.37e+08	1.56 y	38:27	-	1.08	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	6.33e+07	1.60 y	38:25	-	1.45	
148	Unk	PCB-114	100.00	6.54e+07	1.56 y	39:03	-	1.10	
149	IS	13C-PCB-114	100.00	5.94e+07	1.59 y	39:03	-	1.36	
150	Unk	PCB-122	100.00	7.55e+07	1.58 y	39:11	-	1.25	
151	Unk	PCB-105	100.00	6.97e+07	1.57 y	39:52	-	1.16	
152	IS	13C-PCB-105	100.00	6.02e+07	1.62 y	39:50	-	1.38	
153	Unk	PCB-127	100.00	6.47e+07	1.57 y	40:12	-	1.07	
154	Unk	PCB-126	100.00	6.47e+07	1.58 y	42:02	-	1.17	
155	IS	13C-PCB-126	100.00	5.53e+07	1.57 y	42:00	-	1.27	

156	Unk	PCB-151	100.00	4.29e+07	1.29 y	37:40	-	0.889	
157	Unk	PCB-135	100.00	3.90e+07	1.25 y	37:54	-	0.808	
158	Unk	PCB-144	100.00	5.02e+07	1.29 y	37:59	-	1.04	
159	Unk	PCB-147	100.00	4.65e+07	1.30 y	38:07	-	0.965	
160	Unk	PCB-139	200.00	9.47e+07	1.26 y	38:22	-	0.982	Co-elute PCB 149
161	Unk	PCB-149	200.00	9.47e+07	1.26 y	38:22	-	0.982	Co-elute PCB 139
162	Unk	PCB-140	100.00	4.65e+07	1.30 y	38:33	-	0.964	
163	Unk	PCB-143	200.00	8.60e+07	1.26 y	38:58	-	0.891	Co-elute PCB 134
164	Unk	PCB-134	200.00	8.60e+07	1.26 y	38:58	-	0.891	Co-elute PCB 143
165	Unk	PCB-131	200.00	8.80e+07	1.26 y	39:14	-	0.912	Co-elute PCB 133
166	Unk	PCB-133	200.00	8.80e+07	1.26 y	39:14	-	0.912	Co-elute PCB 131
167	Unk	PCB-142	100.00	3.82e+07	1.27 y	39:22	-	0.792	
168	Unk	PCB-165	200.00	1.04e+08	1.26 y	39:36	-	1.07	Co-elute PCB 146
169	Unk	PCB-146	200.00	1.04e+08	1.26 y	39:36	-	1.07	Co-elute PCB 165
170	Unk	PCB-161	200.00	9.74e+07	1.27 y	39:49	-	1.01	Co-elute PCB 132
171	Unk	PCB-132	200.00	9.74e+07	1.27 y	39:49	-	1.01	Co-elute PCB 161
172	Unk	PCB-153	100.00	5.04e+07	1.26 y	39:59	-	1.05	
173	Unk	PCB-168	100.00	5.67e+07	1.28 y	40:10	-	1.18	
174	Unk	PCB-141	100.00	4.27e+07	1.27 y	40:41	-	0.885	
175	Unk	PCB-137	100.00	4.10e+07	1.25 y	41:03	-	0.851	
176	Unk	PCB-130	100.00	3.81e+07	1.29 y	41:09	-	0.791	
177	Unk	PCB-138	300.00	1.72e+08	1.26 y	41:31	-	1.19	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	1.72e+08	1.26 y	41:31	-	1.19	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	1.72e+08	1.26 y	41:31	-	1.19	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	1.13e+08	1.27 y	41:44	-	1.18	Co-elute PCB 160
181	Unk	PCB-160	200.00	1.13e+08	1.27 y	41:44	-	1.18	Co-elute PCB 158
182	Unk	PCB-129	100.00	3.53e+07	1.27 y	41:57	-	0.732	
183	Unk	PCB-166	100.00	5.33e+07	1.26 y	42:25	-	1.11	
184	Unk	PCB-159	100.00	5.81e+07	1.27 y	42:43	-	1.20	
185	Unk	PCB-128	200.00	9.60e+07	1.26 y	42:60	-	0.995	Co-elute PCB 162
186	Unk	PCB-162	200.00	9.60e+07	1.26 y	42:60	-	0.995	Co-elute PCB 128
187	Unk	PCB-167	100.00	5.29e+07	1.26 y	43:21	-	1.06	
188	IS	13C-PCB-167	100.00	4.99e+07	1.28 y	43:21	-	1.15	
189	Unk	PCB-156	100.00	5.39e+07	1.26 y	44:35	-	1.12	
190	IS	13C-PCB-156	100.00	4.80e+07	1.27 y	44:35	-	1.10	
191	Unk	PCB-157	100.00	5.55e+07	1.28 y	44:52	-	1.13	
192	IS	13C-PCB-157	100.00	4.92e+07	1.28 y	44:50	-	1.13	
193	Unk	PCB-169	100.00	4.93e+07	1.27 y	46:47	-	1.07	
194	IS	13C-PCB-169	100.00	4.58e+07	1.27 y	46:45	-	1.05	
195	Unk	PCB-188	100.00	5.09e+07	1.06 y	39:37	-	1.25	
196	IS	13C-PCB-188	100.00	4.08e+07	1.07 y	39:36	-	0.938	

197	Unk	PCB-184	100.00	4.97e+07	1.05	y	40:02	-	1.39	
198	Unk	PCB-179	100.00	4.66e+07	1.06	y	40:46	-	1.31	
199	Unk	PCB-176	100.00	4.56e+07	1.06	y	41:13	-	1.28	
200	Unk	PCB-186	100.00	4.56e+07	1.06	y	41:47	-	1.28	
201	Unk	PCB-178	100.00	3.16e+07	1.06	y	42:15	-	0.885	
202	Unk	PCB-175	100.00	3.33e+07	1.07	y	42:35	-	0.934	
203	Unk	PCB-187	200.00	7.24e+07	1.06	y	42:45	-	1.02	Co-elute PCB 182
204	Unk	PCB-182	200.00	7.24e+07	1.06	y	42:45	-	1.02	Co-elute PCB 187
205	Unk	PCB-183	100.00	3.64e+07	1.05	y	43:03	-	1.02	
206	Unk	PCB-185	100.00	3.26e+07	1.07	y	43:41	-	0.914	
207	Unk	PCB-174	100.00	3.35e+07	1.06	y	44:02	-	0.938	
208	Unk	PCB-181	100.00	3.12e+07	1.07	y	44:09	-	0.874	
209	Unk	PCB-177	100.00	2.86e+07	1.06	y	44:17	-	0.801	
210	Unk	PCB-171	100.00	3.18e+07	1.06	y	44:35	-	0.890	
211	Unk	PCB-173	100.00	2.83e+07	1.06	y	44:60	-	0.793	
212	Unk	PCB-172	100.00	2.85e+07	1.06	y	45:23	-	0.799	
213	Unk	PCB-192	100.00	3.88e+07	1.07	y	45:34	-	1.09	
214	Unk	PCB-180	100.00	3.80e+07	1.05	y	45:44	-	1.06	
215	Unk	PCB-193	100.00	4.15e+07	1.06	y	45:54	-	1.16	
216	Unk	PCB-191	100.00	3.95e+07	1.06	y	46:07	-	1.11	
217	Unk	PCB-170	100.00	2.74e+07	1.05	y	47:03	-	0.768	
218	Unk	PCB-190	100.00	3.80e+07	1.07	y	47:13	-	1.07	
219	Unk	PCB-189	100.00	3.73e+07	1.06	y	48:27	-	1.23	
220	IS	13C-PCB-189	100.00	3.05e+07	1.06	y	48:27	-	0.700	
221	Unk	PCB-202	150.00	3.88e+07	0.90	y	44:45	-	1.05	
222	Unk	PCB-201	150.00	3.90e+07	0.89	y	45:11	-	1.05	
223	Unk	PCB-204	150.00	3.89e+07	0.90	y	45:21	-	1.05	
224	Unk	PCB-197	150.00	4.02e+07	0.89	y	45:36	-	1.09	
225	Unk	PCB-200	150.00	3.74e+07	0.90	y	46:22	-	1.01	
226	Unk	PCB-198	150.00	2.60e+07	0.89	y	47:35	-	0.701	
227	Unk	PCB-199	150.00	2.58e+07	0.90	y	47:41	-	0.697	
228	Unk	PCB-203	300.00	5.76e+07	0.89	y	47:56	-	0.777	Co-elute PCB 196
229	Unk	PCB-196	300.00	5.76e+07	0.89	y	47:56	-	0.777	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	2.47e+07	0.93	y	44:43	-	0.567	
231	C/Up	13C-PCB-178	100.00	2.60e+07	1.09	y	42:14	-	0.598	
232	RS	13C-PCB-138	100.00	4.36e+07	1.27	y	41:28	4.36e+05	-	
233	Unk	PCB-195	150.00	5.23e+07	0.88	y	49:04	-	0.738	
234	Unk	PCB-194	150.00	5.82e+07	0.89	y	49:54	-	0.821	
235	Unk	PCB-205	150.00	7.62e+07	0.92	y	50:10	-	1.07	
236	IS	13C-PCB-205	100.00	4.73e+07	0.90	y	50:10	-	1.27	
237	Unk	PCB-208	150.00	6.59e+07	1.35	y	49:11	-	1.03	
238	IS	13C-PCB-208	100.00	4.25e+07	0.80	y	49:11	-	1.14	
239	Unk	PCB-207	150.00	6.06e+07	1.36	y	49:30	-	1.15	
240	Unk	PCB-206	150.00	4.39e+07	1.36	y	51:27	-	1.04	
241	IS	13C-PCB-206	100.00	2.80e+07	0.80	y	51:26	-	0.753	
242	Unk	PCB-209	150.00	5.98e+07	1.18	y	52:43	-	1.16	
243	IS	13C-PCB-209	100.00	3.44e+07	1.22	y	52:43	-	0.926	
244	RS	13C-PCB-194	100.00	3.72e+07	0.92	y	49:53	3.72e+05	-	

Analyst: _____ Date: 9/20/16

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 9/19/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 19SEP16Z Sam:1 Analysis Date: 19-SEP-16 14:30:56

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.11	2.66-3.60	y	48.4	37.5 - 62.5
PCB-3	M/M+2	3.08	2.66-3.60	y	44.6	37.5 - 62.5
PCB-4	M/M+2	1.52	1.33-1.79	y	47.6	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	41.6	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	49.8	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	44.5	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	49.1	37.5 - 62.5
PCB-77	M/M+2	0.78	0.65-0.89	y	49.0	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	47.1	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	50.1	37.5 - 62.5
PCB-105	M+2/M+4	1.56	1.32-1.78	y	44.9	37.5 - 62.5
PCB-114	M+2/M+4	1.55	1.32-1.78	y	48.9	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	51.0	37.5 - 62.5
PCB-123	M+2/M+4	1.55	1.32-1.78	y	40.9	37.5 - 62.5
PCB-126	M+2/M+4	1.55	1.32-1.78	y	46.3	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	49.5	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	48.5	37.5 - 62.5
PCB-157	M+2/M+4	1.30	1.05-1.43	y	46.8	37.5 - 62.5
PCB-167	M+2/M+4	1.27	1.05-1.43	y	49.6	37.5 - 62.5
PCB-169	M+2/M+4	1.29	1.05-1.43	y	49.4	37.5 - 62.5
PCB-188	M+2/M+4	1.07	0.89-1.21	y	49.5	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	49.1	37.5 - 62.5
PCB-202	M+2/M+4	0.89	0.76-1.02	y	52.4	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	50.8	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	48.3	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	48.4	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	48.8	37.5 - 62.5

Analyst: [signature] Date: 9/20/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 9/19/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 19SEP16Z Sam:1 Analysis Date: 19-SEP-16 14:30:56

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.24	2.66-3.60	y	110	50.0 - 145
13C-PCB-3	M/M+2	3.19	2.66-3.60	y	109	50.0 - 145
13C-PCB-4	M/M+2	1.57	1.33-1.79	y	105	50.0 - 145
13C-PCB-15	M/M+2	1.61	1.33-1.79	y	102	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	105	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	99.6	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	111	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	0.79	0.65-0.89	y	100	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	107	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	105	50.0 - 145
13C-PCB-114	M+2/M+4	1.57	1.32-1.78	y	107	50.0 - 145
13C-PCB-118	M+2/M+4	1.60	1.32-1.78	y	107	50.0 - 145
13C-PCB-123	M+2/M+4	1.58	1.32-1.78	y	101	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	102	50.0 - 145
13C-PCB-155	M+2/M+4	1.25	1.05-1.43	y	107	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	105	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	106	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	107	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	104	50.0 - 145
13C-PCB-188	M+2/M+4	1.08	0.89-1.21	y	111	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	109	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	115	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	97.7	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	106	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	112	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	108	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	99.7	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	109	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	117	75.0 - 125

Analyst: _____ Date: 9/20/16

FAL ID: ST091916Z1 Filename: 19SEP16Z Sam:1 Acquired: 19-SEP-16 14:30:56 ICal: DAILY209FAL4-9-19-16
Client ID: 1668 CS3 R160816B ConCal: ST091916Z1 EndCal: ST091916Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.92e+07	3.11 y	14:26	1.12	48.4		2.50	-	-	*	
13C-PCB-1	9.10e+07	3.24 y	14:25	0.94	110		2.50				110
PCB-3	4.40e+07	3.08 y	16:53	1.28	44.6		2.50	-	-	*	
13C-PCB-3	7.69e+07	3.19 y	16:52	0.80	109		2.50				109
PCB-4	3.13e+07	1.52 y	18:06	1.14	47.6		2.50	-	-	*	
13C-PCB-4	5.80e+07	1.57 y	18:04	0.63	105		2.50				105
PCB-15	4.38e+07	1.56 y	23:40	1.33	41.6		2.50	-	-	*	
13C-PCB-15	7.93e+07	1.61 y	23:39	0.88	102		2.50				102
PCB-19	2.68e+07	1.04 y	21:59	1.22	49.8		2.50	-	-	*	
13C-PCB-19	4.40e+07	1.07 y	21:58	0.47	105		2.50				105
13C-PCB-9	8.82e+07	1.61 y	19:46	-	89.9		2.50				
PCB-37	3.81e+07	1.05 y	30:21	1.29	44.5		2.50	-	-	*	
13C-PCB-37	6.65e+07	1.06 y	30:20	1.43	99.6		2.50				99.6
PCB-54	3.57e+07	0.78 y	25:32	1.17	49.1		2.50	-	-	*	
13C-PCB-54	6.22e+07	0.80 y	25:29	1.20	111		2.50				111
PCB-104	2.04e+07	1.59 y	29:57	1.25	50.1		2.50	-	-	*	
13C-PCB-104	3.26e+07	1.59 y	29:56	0.66	107		2.50				107
13C-PCB-28	7.58e+07	1.05 y	26:36	1.63	99.7		2.50				99.7
13C-PCB-52	4.66e+07	0.79 y	28:51	-	87.4		2.50				
PCB-81	3.08e+07	0.78 y	36:06	1.23	47.1		2.50	-	-	*	
13C-PCB-81	5.31e+07	0.79 y	36:05	1.35	100		2.50				100
PCB-77	3.07e+07	0.78 y	36:40	1.14	49.0		2.50	-	-	*	
13C-PCB-77	5.49e+07	0.81 y	36:40	1.37	102		2.50				102
PCB-155	2.06e+07	1.27 y	34:07	1.18	49.5		2.50	-	-	*	
13C-PCB-155	3.53e+07	1.25 y	34:06	0.84	107		2.50				107
13C-PCB-111	5.00e+07	1.61 y	36:12	1.16	109		2.50				109
13C-PCB-101	3.93e+07	1.61 y	34:34	-	86.4		2.50				
PCB-123	2.62e+07	1.55 y	38:17	1.34	40.9		2.50	-	-	*	
13C-PCB-123	4.78e+07	1.58 y	38:15	1.34	101		2.50				101
PCB-118	3.03e+07	1.56 y	38:27	1.08	51.0		2.50	-	-	*	
13C-PCB-118	5.48e+07	1.60 y	38:25	1.45	107		2.50				107
PCB-114	2.76e+07	1.55 y	39:04	1.10	48.9		2.50	-	-	*	
13C-PCB-114	5.13e+07	1.57 y	39:03	1.36	107		2.50				107
PCB-105	2.65e+07	1.56 y	39:54	1.16	44.9		2.50	-	-	*	
13C-PCB-105	5.10e+07	1.59 y	39:52	1.38	105		2.50				105
PCB-126	2.48e+07	1.55 y	42:02	1.17	46.3		2.50	-	-	*	
13C-PCB-126	4.58e+07	1.60 y	42:02	1.27	102		2.50				102
PCB-167	2.26e+07	1.27 y	43:23	1.06	49.6		2.50	-	-	*	
13C-PCB-167	4.30e+07	1.27 y	43:21	1.15	107		2.50				107
PCB-156	2.22e+07	1.27 y	44:37	1.12	48.5		2.50	-	-	*	
13C-PCB-156	4.07e+07	1.29 y	44:35	1.10	105		2.50				105
PCB-157	2.23e+07	1.30 y	44:52	1.13	46.8		2.50	-	-	*	
13C-PCB-157	4.22e+07	1.27 y	44:50	1.13	106		2.50				106
PCB-169	2.05e+07	1.29 y	46:47	1.07	49.4		2.50	-	-	*	
13C-PCB-169	3.85e+07	1.27 y	46:45	1.05	104		2.50				104
PCB-188	2.28e+07	1.07 y	39:37	1.25	49.5		2.50	-	-	*	
13C-PCB-188	3.68e+07	1.08 y	39:36	0.94	111		2.50				111
PCB-189	1.62e+07	1.05 y	48:27	1.23	49.1		2.50	-	-	*	
13C-PCB-189	2.69e+07	1.07 y	48:27	0.70	109		2.50				109
PCB-202	1.26e+07	0.89 y	44:45	1.05	52.4		2.50	-	-	*	
13C-PCB-202	2.31e+07	0.92 y	44:44	0.57	115		2.50				115
13C-PCB-178	2.46e+07	1.06 y	42:15	0.60	117		2.50				117
13C-PCB-138	3.53e+07	1.28 y	41:29	-	80.9		2.50				

FAL ID: ST091916Z1 Filename: 19SEP16Z Sam:1 Acquired: 19-SEP-16 14:30:56 ICal: DAILY209FAL4-9-19-16 2 of 2
Client ID: 1668 CS3 R160816B ConCal: ST091916Z1 EndCal: ST091916Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	2.06e+07	0.89	y	50:10	1.07	50.8	2.50	-	-	*	
13C-PCB-205	3.77e+07	0.90	y	50:10	1.27	97.7	2.50				97.7
PCB-208	1.93e+07	1.36	y	49:12	1.03	48.4	2.50	-	-	*	
13C-PCB-208	3.87e+07	0.80	y	49:11	1.14	112	2.50				112
PCB-206	1.22e+07	1.37	y	51:27	1.04	48.3	2.50	-	-	*	
13C-PCB-206	2.41e+07	0.79	y	51:27	0.75	106	2.50				106
PCB-209	1.72e+07	1.20	y	52:45	1.16	48.8	2.50	-	-	*	
13C-PCB-209	3.04e+07	1.21	y	52:44	0.93	108	2.50				108
13C-PCB-194	3.03e+07	0.91	y	49:55	-	81.6	2.50				

Analyst: _____ Date: 9/20/16

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 9/19/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 19SEP16Z Sam:15 Analysis Date: 20-SEP-16 03:41:16

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.16	2.66-3.60	y	51.5	37.5 - 62.5
PCB-3	M/M+2	3.16	2.66-3.60	y	45.7	37.5 - 62.5
PCB-4	M/M+2	1.49	1.33-1.79	y	44.5	37.5 - 62.5
PCB-15	M/M+2	1.50	1.33-1.79	y	39.4	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	51.5	37.5 - 62.5
PCB-37	M/M+2	0.99	0.88-1.20	y	41.1	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	47.7	37.5 - 62.5
PCB-77	M/M+2	0.76	0.65-0.89	y	46.4	37.5 - 62.5
PCB-81	M/M+2	0.75	0.65-0.89	y	44.7	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	51.1	37.5 - 62.5
PCB-105	M+2/M+4	1.53	1.32-1.78	y	42.6	37.5 - 62.5
PCB-114	M+2/M+4	1.52	1.32-1.78	y	45.7	37.5 - 62.5
PCB-118	M+2/M+4	1.51	1.32-1.78	y	46.6	37.5 - 62.5
PCB-123	M+2/M+4	1.47	1.32-1.78	y	38.1	37.5 - 62.5
PCB-126	M+2/M+4	1.42	1.32-1.78	y	42.9	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	50.1	37.5 - 62.5
PCB-156	M+2/M+4	1.28	1.05-1.43	y	47.7	37.5 - 62.5
PCB-157	M+2/M+4	1.29	1.05-1.43	y	46.0	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	49.2	37.5 - 62.5
PCB-169	M+2/M+4	1.29	1.05-1.43	y	49.0	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	49.3	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	48.8	37.5 - 62.5
PCB-202	M+2/M+4	0.89	0.76-1.02	y	53.4	37.5 - 62.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	47.8	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	49.2	37.5 - 62.5
PCB-208	M+4/M+6	1.38	1.13-1.53	y	46.0	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	49.0	37.5 - 62.5

Analyst: [signature] Date: 9/20/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 9/19/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 19SEP16Z Sam:15 Analysis Date: 20-SEP-16 03:41:16

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.25	2.66-3.60	y	103	50.0 - 145
13C-PCB-3	M/M+2	3.33	2.66-3.60	y	105	50.0 - 145
13C-PCB-4	M/M+2	1.54	1.33-1.79	y	110	50.0 - 145
13C-PCB-15	M/M+2	1.56	1.33-1.79	y	100	50.0 - 145
13C-PCB-19	M/M+2	1.05	0.88-1.20	y	106	50.0 - 145
13C-PCB-37	M/M+2	1.10	0.88-1.20	y	80.5	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	102	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	102	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	100	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	105	50.0 - 145
13C-PCB-105	M+2/M+4	1.58	1.32-1.78	y	90.3	50.0 - 145
13C-PCB-114	M+2/M+4	1.58	1.32-1.78	y	95.0	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	98.2	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	88.3	50.0 - 145
13C-PCB-126	M+2/M+4	1.57	1.32-1.78	y	88.6	50.0 - 145
13C-PCB-155	M+2/M+4	1.27	1.05-1.43	y	107	50.0 - 145
13C-PCB-156	M+2/M+4	1.26	1.05-1.43	y	104	50.0 - 145
13C-PCB-157	M+2/M+4	1.24	1.05-1.43	y	110	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	108	50.0 - 145
13C-PCB-169	M+2/M+4	1.26	1.05-1.43	y	106	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	109	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	117	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	0.89	0.76-1.02	y	116	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	131	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	116	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	133	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	79.5	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	109	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	114	75.0 - 125

Analyst: [signature] Date: 9/20/16

FAL ID: ST091916Z2 Filename: 19SEP16Z Sam:15 Acquired: 20-SEP-16 03:41:16 ICal: DAILY209FAL4-9-19-16
Client ID: 1668 CS3 R160816B ConCal: ST091916Z1 EndCal: ST091916Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	2.98e+07	3.16 y	14:29	1.12	51.5		2.50	-	-	*	
13C-PCB-1	5.18e+07	3.25 y	14:28	0.94	103		2.50				103
PCB-3	2.64e+07	3.16 y	16:57	1.28	45.7		2.50	-	-	*	
13C-PCB-3	4.51e+07	3.33 y	16:56	0.80	105		2.50				105
PCB-4	1.86e+07	1.49 y	18:09	1.14	44.5		2.50	-	-	*	
13C-PCB-4	3.68e+07	1.54 y	18:07	0.63	110		2.50				110
PCB-15	2.46e+07	1.50 y	23:44	1.33	39.4		2.50	-	-	*	
13C-PCB-15	4.71e+07	1.56 y	23:43	0.88	100		2.50				100
PCB-19	1.69e+07	1.06 y	22:01	1.22	51.5		2.50	-	-	*	
13C-PCB-19	2.68e+07	1.05 y	21:60	0.47	106		2.50				106
13C-PCB-9	5.34e+07	1.59 y	19:49	-	54.5		2.50				
PCB-37	1.90e+07	0.99 y	30:24	1.29	41.1		2.50	-	-	*	
13C-PCB-37	3.59e+07	1.10 y	30:22	1.43	80.5		2.50				80.5
PCB-54	2.13e+07	0.79 y	25:33	1.17	47.7		2.50	-	-	*	
13C-PCB-54	3.83e+07	0.81 y	25:32	1.20	102		2.50				102
PCB-104	1.37e+07	1.59 y	29:60	1.25	51.1		2.50	-	-	*	
13C-PCB-104	2.14e+07	1.60 y	29:57	0.66	105		2.50				105
13C-PCB-28	4.04e+07	1.05 y	26:39	1.63	79.5		2.50				79.5
13C-PCB-52	3.12e+07	0.79 y	28:53	-	58.5		2.50				
PCB-81	1.94e+07	0.75 y	36:09	1.23	44.7		2.50	-	-	*	
13C-PCB-81	3.52e+07	0.80 y	36:07	1.35	100		2.50				100
PCB-77	1.93e+07	0.76 y	36:43	1.14	46.4		2.50	-	-	*	
13C-PCB-77	3.65e+07	0.79 y	36:41	1.37	102		2.50				102
PCB-155	1.38e+07	1.28 y	34:09	1.18	50.1		2.50	-	-	*	
13C-PCB-155	2.33e+07	1.27 y	34:07	0.84	107		2.50				107
13C-PCB-111	3.31e+07	1.60 y	36:14	1.16	109		2.50				109
13C-PCB-101	2.60e+07	1.58 y	34:35	-	57.2		2.50				
PCB-123	1.49e+07	1.47 y	38:19	1.34	38.1		2.50	-	-	*	
13C-PCB-123	2.92e+07	1.59 y	38:17	1.34	88.3		2.50				88.3
PCB-118	1.78e+07	1.51 y	38:28	1.08	46.6		2.50	-	-	*	
13C-PCB-118	3.53e+07	1.58 y	38:27	1.45	98.2		2.50				98.2
PCB-114	1.61e+07	1.52 y	39:06	1.10	45.7		2.50	-	-	*	
13C-PCB-114	3.21e+07	1.58 y	39:05	1.36	95.0		2.50				95.0
PCB-105	1.53e+07	1.53 y	39:54	1.16	42.6		2.50	-	-	*	
13C-PCB-105	3.09e+07	1.58 y	39:54	1.38	90.3		2.50				90.3
PCB-126	1.40e+07	1.42 y	42:04	1.17	42.9		2.50	-	-	*	
13C-PCB-126	2.78e+07	1.57 y	42:04	1.27	88.6		2.50				88.6
PCB-167	1.60e+07	1.26 y	43:25	1.06	49.2		2.50	-	-	*	
13C-PCB-167	3.07e+07	1.27 y	43:23	1.15	108		2.50				108
PCB-156	1.52e+07	1.28 y	44:39	1.12	47.7		2.50	-	-	*	
13C-PCB-156	2.84e+07	1.26 y	44:37	1.10	104		2.50				104
PCB-157	1.59e+07	1.29 y	44:54	1.13	46.0		2.50	-	-	*	
13C-PCB-157	3.07e+07	1.24 y	44:52	1.13	110		2.50				110
PCB-169	1.46e+07	1.29 y	46:49	1.07	49.0		2.50	-	-	*	
13C-PCB-169	2.77e+07	1.26 y	46:47	1.05	106		2.50				106
PCB-188	1.55e+07	1.06 y	39:39	1.25	49.3		2.50	-	-	*	
13C-PCB-188	2.52e+07	1.07 y	39:38	0.94	109		2.50				109
PCB-189	1.22e+07	1.06 y	48:29	1.23	48.8		2.50	-	-	*	
13C-PCB-189	2.04e+07	1.06 y	48:28	0.70	117		2.50				117
PCB-202	8.50e+06	0.89 y	44:47	1.05	53.4		2.50	-	-	*	
13C-PCB-202	1.52e+07	0.93 y	44:45	0.57	108		2.50				108
13C-PCB-178	1.69e+07	1.08 y	42:17	0.60	114		2.50				114
13C-PCB-138	2.48e+07	1.29 y	41:31	-	56.8		2.50				

FAL ID: ST091916Z2 Filename: 19SEP16Z Sam:15 Acquired: 20-SEP-16 03:41:16 ICal: DAILY209FAL4-9-19-16 2 of 2
Client ID: 1668 CS3 R160816B ConCal: ST091916Z1 EndCal: ST091916Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	1.38e+07	0.88	y	50:13	1.07	47.8	2.50	-	-	*	
13C-PCB-205	2.68e+07	0.89	y	50:11	1.27	116	2.50				116
PCB-208	1.15e+07	1.38	y	49:14	1.03	46.0	2.50	-	-	*	
13C-PCB-208	2.41e+07	0.81	y	49:12	1.14	116	2.50				116
PCB-206	9.22e+06	1.37	y	51:29	1.04	49.2	2.50	-	-	*	
13C-PCB-206	1.79e+07	0.80	y	51:27	0.75	131	2.50				131
PCB-209	1.27e+07	1.18	y	52:46	1.16	49.0	2.50	-	-	*	
13C-PCB-209	2.24e+07	1.21	y	52:46	0.93	133	2.50				133
13C-PCB-194	1.82e+07	0.92	y	49:56	-	49.0	2.50				

Analyst: [illegible] Date: 9/20/16

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 9/19/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 19SEP16Z Sam:20 Analysis Date: 20-SEP-16 08:23:33

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.17	2.66-3.60	y	52.6	37.5 - 62.5
PCB-3	M/M+2	3.05	2.66-3.60	y	47.3	37.5 - 62.5
PCB-4	M/M+2	1.52	1.33-1.79	y	46.9	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	40.3	37.5 - 62.5
PCB-19	M/M+2	1.05	0.88-1.20	y	50.6	37.5 - 62.5
PCB-37	M/M+2	0.97	0.88-1.20	y	42.3	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	48.2	37.5 - 62.5
PCB-77	M/M+2	0.77	0.65-0.89	y	47.2	37.5 - 62.5
PCB-81	M/M+2	0.77	0.65-0.89	y	46.4	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	51.1	37.5 - 62.5
PCB-105	M+2/M+4	1.54	1.32-1.78	y	44.6	37.5 - 62.5
PCB-114	M+2/M+4	1.52	1.32-1.78	y	47.9	37.5 - 62.5
PCB-118	M+2/M+4	1.50	1.32-1.78	y	48.6	37.5 - 62.5
PCB-123	M+2/M+4	1.50	1.32-1.78	y	40.4	37.5 - 62.5
PCB-126	M+2/M+4	1.55	1.32-1.78	y	44.6	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	49.1	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	47.6	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	46.2	37.5 - 62.5
PCB-167	M+2/M+4	1.28	1.05-1.43	y	50.7	37.5 - 62.5
PCB-169	M+2/M+4	1.23	1.05-1.43	y	48.7	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	48.7	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	49.2	37.5 - 62.5
PCB-202	M+2/M+4	0.91	0.76-1.02	y	52.7	37.5 - 62.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	49.4	37.5 - 62.5
PCB-206	M+4/M+6	1.39	1.13-1.53	y	49.8	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	48.6	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	48.9	37.5 - 62.5

Analyst: [signature] Date: 9/20/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 9/19/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 19SEP16Z Sam:20 Analysis Date: 20-SEP-16 08:23:33

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.26	2.66-3.60	y	93.3	50.0 - 145
13C-PCB-3	M/M+2	3.34	2.66-3.60	y	88.9	50.0 - 145
13C-PCB-4	M/M+2	1.58	1.33-1.79	y	108	50.0 - 145
13C-PCB-15	M/M+2	1.66	1.33-1.79	y	96.8	50.0 - 145
13C-PCB-19	M/M+2	1.06	0.88-1.20	y	107	50.0 - 145
13C-PCB-37	M/M+2	1.04	0.88-1.20	y	89.0	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	106	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	104	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	1.62	1.32-1.78	y	103	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	101	50.0 - 145
13C-PCB-114	M+2/M+4	1.60	1.32-1.78	y	105	50.0 - 145
13C-PCB-118	M+2/M+4	1.59	1.32-1.78	y	104	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	95.4	50.0 - 145
13C-PCB-126	M+2/M+4	1.64	1.32-1.78	y	109	50.0 - 145
13C-PCB-155	M+2/M+4	1.26	1.05-1.43	y	105	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	110	50.0 - 145
13C-PCB-157	M+2/M+4	1.26	1.05-1.43	y	113	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	110	50.0 - 145
13C-PCB-169	M+2/M+4	1.28	1.05-1.43	y	116	50.0 - 145
13C-PCB-188	M+2/M+4	1.08	0.89-1.21	y	108	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	119	50.0 - 145
13C-PCB-202	M+2/M+4	0.93	0.76-1.02	y	109	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	106	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	114	50.0 - 145
13C-PCB-208	M+2/M+4	0.79	0.65-0.89	y	110	50.0 - 145
13C-PCB-209	M+4/M+6	1.22	0.99-1.33	y	112	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.03	0.88-1.20	y	95.5	65.0 - 135
13C-PCB-111	M+2/M+4	1.62	1.32-1.78	y	111	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	112	75.0 - 125

Analyst: _____ Date: 9/20/16

FAL ID: ST091916Z3 Filename: 19SEP16Z Sam:20 Acquired: 20-SEP-16 08:23:33 ICal: DAILY209FAL4-9-19-16
Client ID: 1668 CS3 R160816B ConCal: ST091916Z2 EndCal: ST091916Z3
Results: 10146 GC Column: DB1 Amount: 1.000

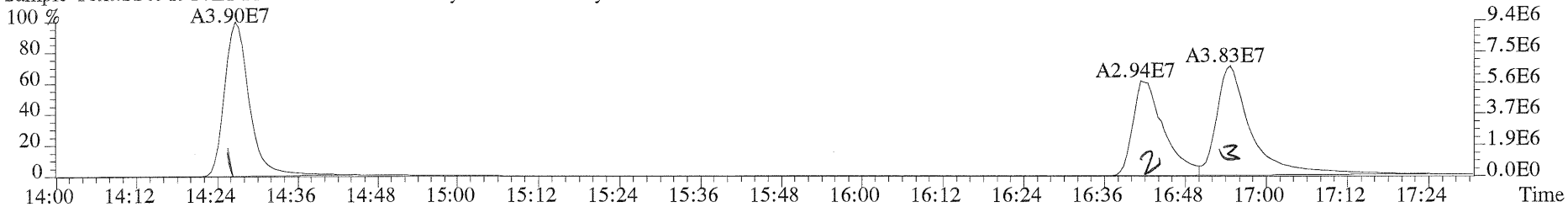
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	2.80e+07	3.17 y	14:27	1.12	52.6		2.50	-	-	*	
13C-PCB-1	4.76e+07	3.26 y	14:26	0.94	93.3		2.50				93.3
PCB-3	2.36e+07	3.05 y	16:55	1.28	47.3		2.50	-	-	*	
13C-PCB-3	3.88e+07	3.34 y	16:54	0.80	88.9		2.50				88.9
PCB-4	1.97e+07	1.52 y	18:07	1.14	46.9		2.50	-	-	*	
13C-PCB-4	3.70e+07	1.58 y	18:05	0.63	108		2.50				108
PCB-15	2.48e+07	1.56 y	23:43	1.33	40.3		2.50	-	-	*	
13C-PCB-15	4.63e+07	1.66 y	23:41	0.88	96.8		2.50				96.8
PCB-19	1.70e+07	1.05 y	22:00	1.22	50.6		2.50	-	-	*	
13C-PCB-19	2.75e+07	1.06 y	21:58	0.47	107		2.50				107
13C-PCB-9	5.44e+07	1.58 y	19:47	-	55.5		2.50				
PCB-37	2.15e+07	0.97 y	30:22	1.29	42.3		2.50	-	-	*	
13C-PCB-37	3.94e+07	1.04 y	30:22	1.43	89.0		2.50				89.0
PCB-54	2.23e+07	0.79 y	25:32	1.17	48.2		2.50	-	-	*	
13C-PCB-54	3.95e+07	0.81 y	25:30	1.20	106		2.50				106
PCB-104	1.34e+07	1.59 y	29:57	1.25	51.1		2.50	-	-	*	
13C-PCB-104	2.09e+07	1.62 y	29:56	0.66	103		2.50				103
13C-PCB-28	4.81e+07	1.03 y	26:37	1.63	95.5		2.50				95.5
13C-PCB-52	3.09e+07	0.78 y	28:51	-	58.0		2.50				
PCB-81	2.06e+07	0.77 y	36:07	1.23	46.4		2.50	-	-	*	
13C-PCB-81	3.61e+07	0.80 y	36:06	1.35	101		2.50				101
PCB-77	2.05e+07	0.77 y	36:41	1.14	47.2		2.50	-	-	*	
13C-PCB-77	3.80e+07	0.81 y	36:40	1.37	104		2.50				104
PCB-155	1.35e+07	1.28 y	34:07	1.18	49.1		2.50	-	-	*	
13C-PCB-155	2.33e+07	1.26 y	34:06	0.84	105		2.50				105
13C-PCB-111	3.43e+07	1.62 y	36:12	1.16	111		2.50				111
13C-PCB-101	2.66e+07	1.64 y	34:32	-	58.5		2.50				
PCB-123	1.79e+07	1.50 y	38:17	1.34	40.4		2.50	-	-	*	
13C-PCB-123	3.30e+07	1.59 y	38:15	1.34	95.4		2.50				95.4
PCB-118	2.06e+07	1.50 y	38:27	1.08	48.6		2.50	-	-	*	
13C-PCB-118	3.92e+07	1.59 y	38:25	1.45	104		2.50				104
PCB-114	1.96e+07	1.52 y	39:05	1.10	47.9		2.50	-	-	*	
13C-PCB-114	3.71e+07	1.60 y	39:03	1.36	105		2.50				105
PCB-105	1.87e+07	1.54 y	39:54	1.16	44.6		2.50	-	-	*	
13C-PCB-105	3.63e+07	1.60 y	39:52	1.38	101		2.50				101
PCB-126	1.87e+07	1.55 y	42:02	1.17	44.6		2.50	-	-	*	
13C-PCB-126	3.59e+07	1.64 y	42:02	1.27	109		2.50				109
PCB-167	1.75e+07	1.28 y	43:23	1.06	50.7		2.50	-	-	*	
13C-PCB-167	3.25e+07	1.27 y	43:21	1.15	110		2.50				110
PCB-156	1.68e+07	1.26 y	44:37	1.12	47.6		2.50	-	-	*	
13C-PCB-156	3.14e+07	1.29 y	44:35	1.10	110		2.50				110
PCB-157	1.73e+07	1.27 y	44:52	1.13	46.2		2.50	-	-	*	
13C-PCB-157	3.31e+07	1.26 y	44:50	1.13	113		2.50				113
PCB-169	1.65e+07	1.23 y	46:47	1.07	48.7		2.50	-	-	*	
13C-PCB-169	3.15e+07	1.28 y	46:45	1.05	116		2.50				116
PCB-188	1.59e+07	1.06 y	39:37	1.25	48.7		2.50	-	-	*	
13C-PCB-188	2.61e+07	1.08 y	39:36	0.94	108		2.50				108
PCB-189	1.29e+07	1.06 y	48:27	1.23	49.2		2.50	-	-	*	
13C-PCB-189	2.15e+07	1.08 y	48:27	0.70	119		2.50				119
PCB-202	8.80e+06	0.91 y	44:45	1.05	52.7		2.50	-	-	*	
13C-PCB-202	1.60e+07	0.93 y	44:44	0.57	109		2.50				109
13C-PCB-178	1.73e+07	1.07 y	42:14	0.60	112		2.50				112
13C-PCB-138	2.59e+07	1.27 y	41:28	-	59.4		2.50				

FAL ID: ST091916Z3 Filename: 19SEP16Z Sam:20 Acquired: 20-SEP-16 08:23:33 ICal: DAILY209FAL4-9-19-16 2 of 2
Client ID: 1668 CS3 R160816B ConCal: ST091916Z2 EndCal: ST091916Z3
Results: 10146 GC Column: DB1 Amount: 1.000

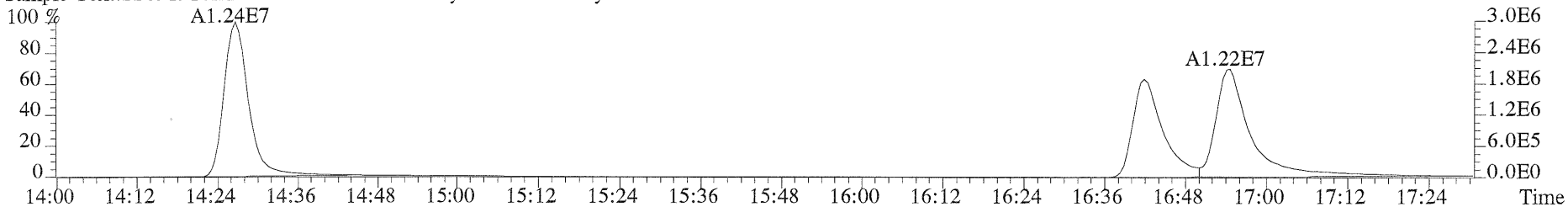
PCB-205	1.64e+07	0.88	y	50:11	1.07	49.4	2.50	-	-	*	
13C-PCB-205	3.09e+07	0.90	y	50:10	1.27	106	2.50				106
PCB-208	1.45e+07	1.35	y	49:12	1.03	48.6	2.50	-	-	*	
13C-PCB-208	2.88e+07	0.79	y	49:11	1.14	110	2.50				110
PCB-206	1.03e+07	1.39	y	51:27	1.04	49.8	2.50	-	-	*	
13C-PCB-206	1.97e+07	0.79	y	51:27	0.75	114	2.50				114
PCB-209	1.34e+07	1.19	y	52:45	1.16	48.9	2.50	-	-	*	
13C-PCB-209	2.37e+07	1.22	y	52:44	0.93	112	2.50				112
13C-PCB-194	2.30e+07	0.91	y	49:55	-	61.8	2.50				

Analyst: [signature] Date: 9/20/16

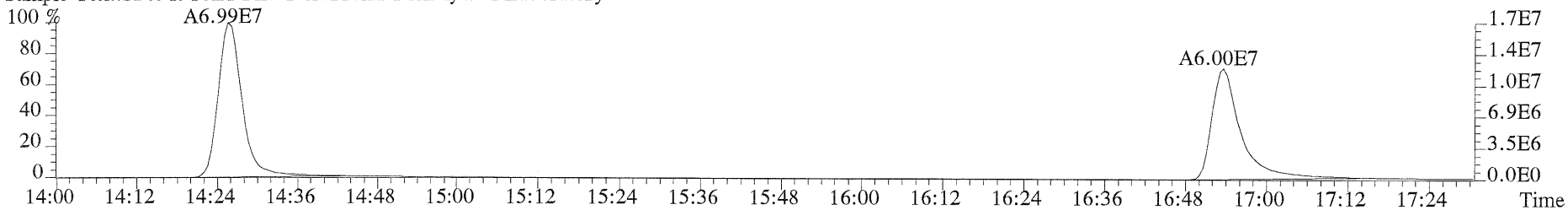
File:19SEP16Z #1-548 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 SMO(1,5) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



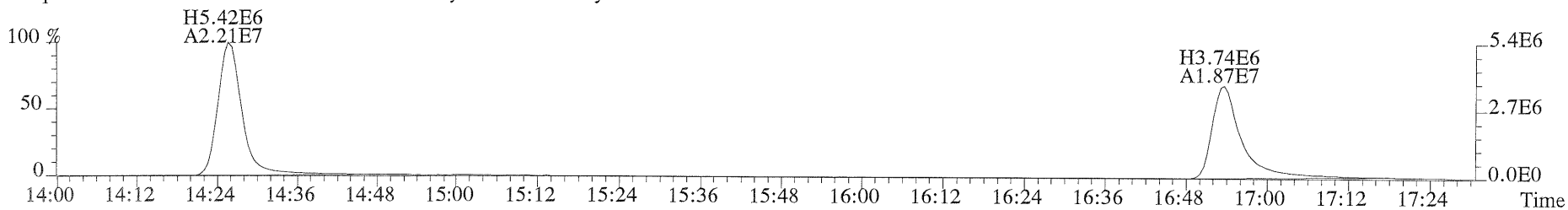
File:19SEP16Z #1-548 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 SMO(1,5) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



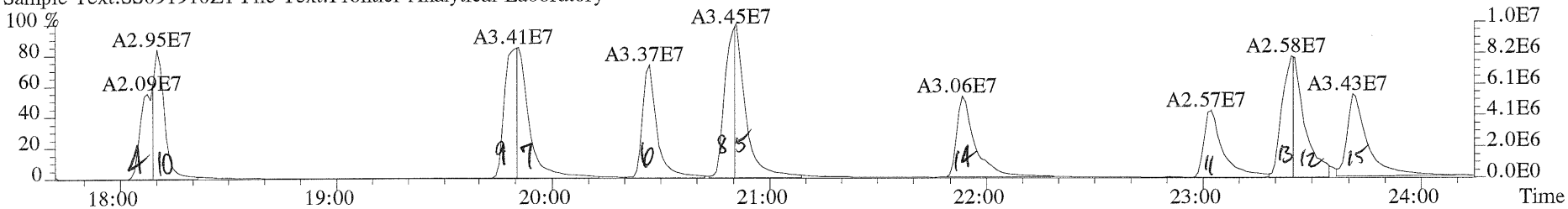
File:19SEP16Z #1-548 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 SMO(1,5) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



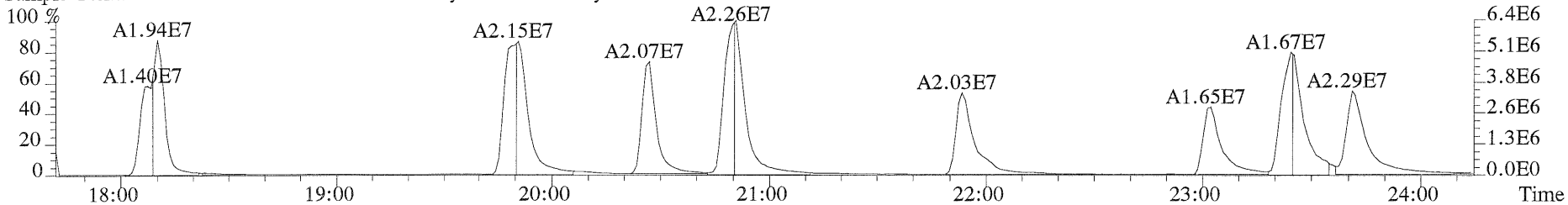
File:19SEP16Z #1-548 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 SMO(1,5) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



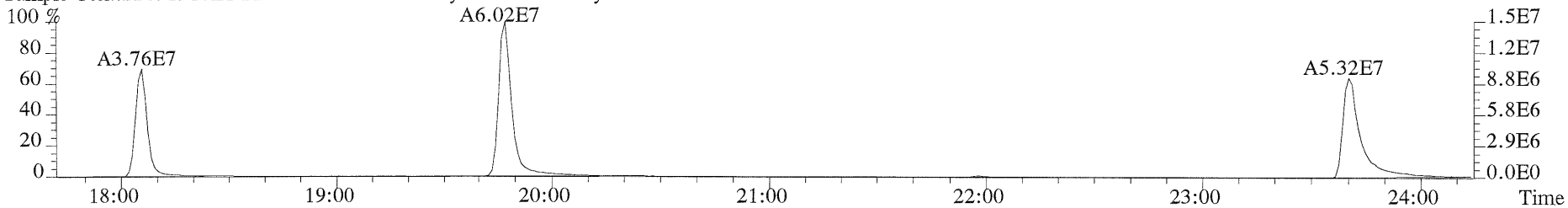
File:19SEP16Z #1-509 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



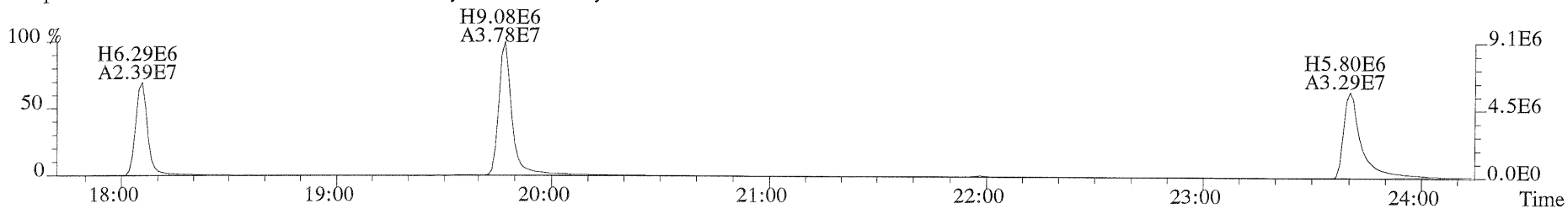
File:19SEP16Z #1-509 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



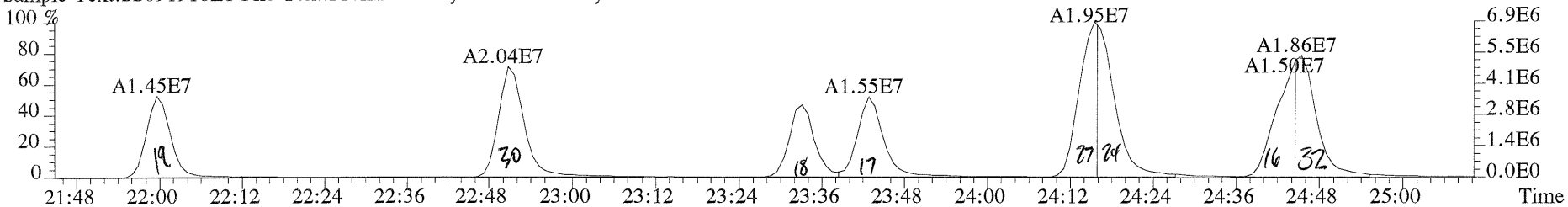
File:19SEP16Z #1-509 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



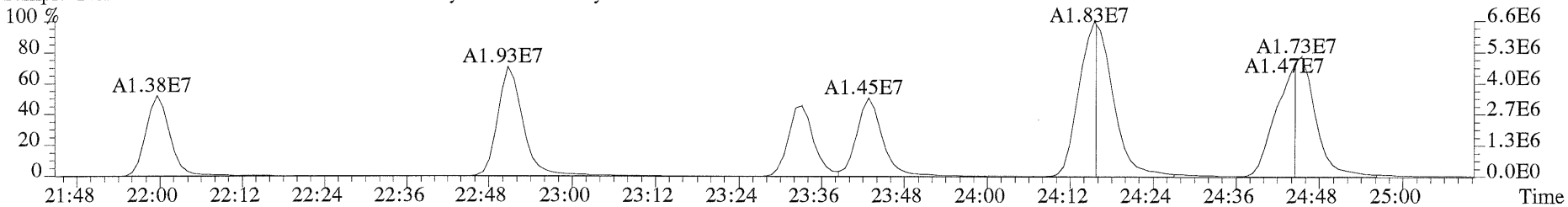
File:19SEP16Z #1-509 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



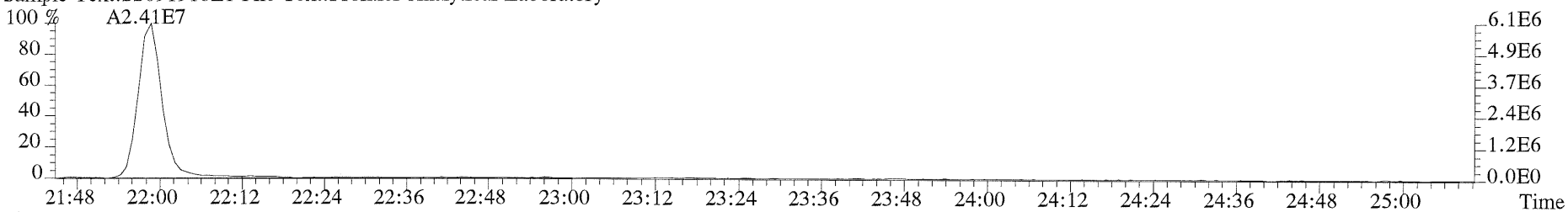
File:19SEP16Z #1-509 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



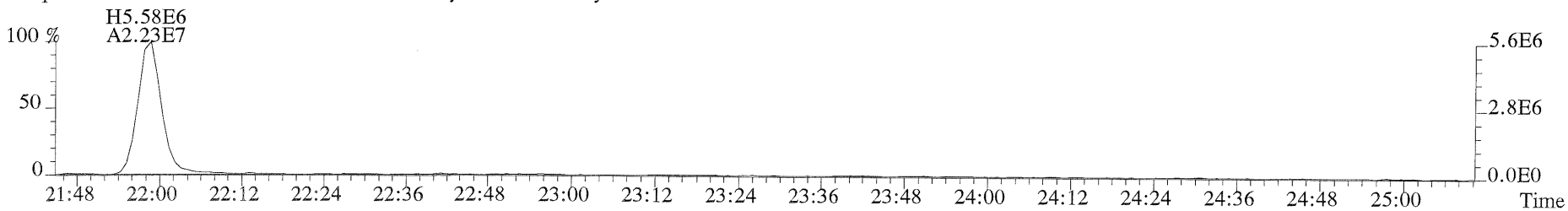
File:19SEP16Z #1-509 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



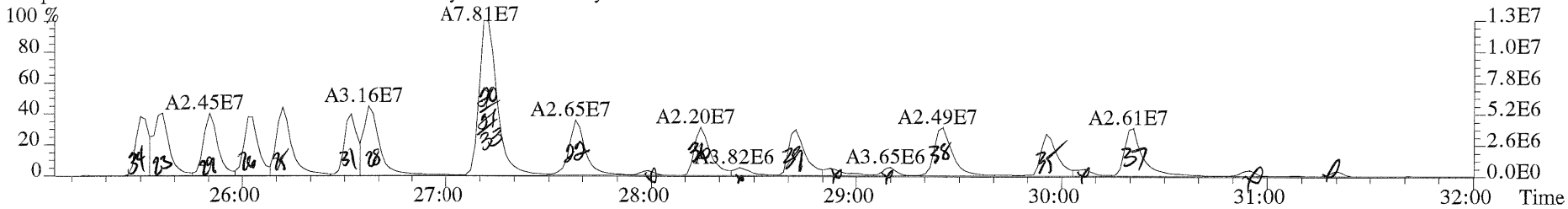
File:19SEP16Z #1-509 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



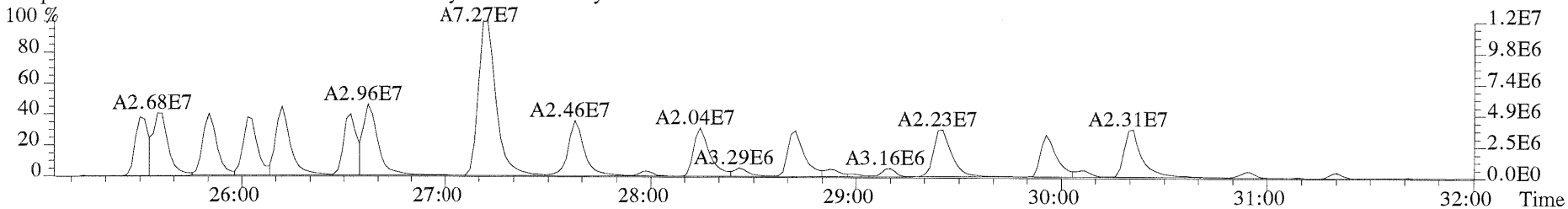
File:19SEP16Z #1-509 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



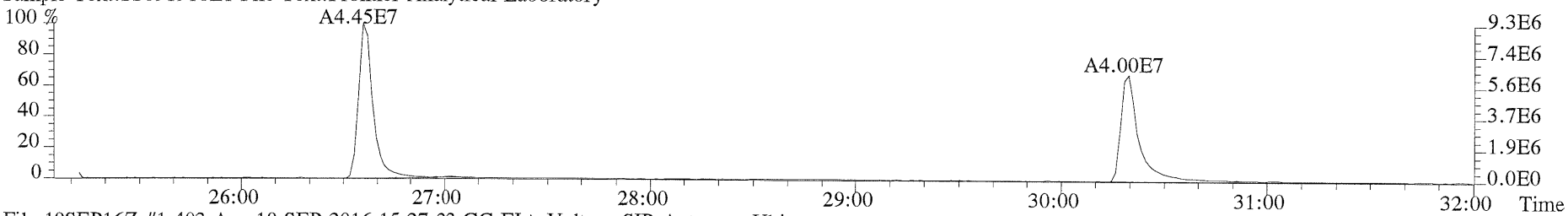
File:19SEP16Z #1-403 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



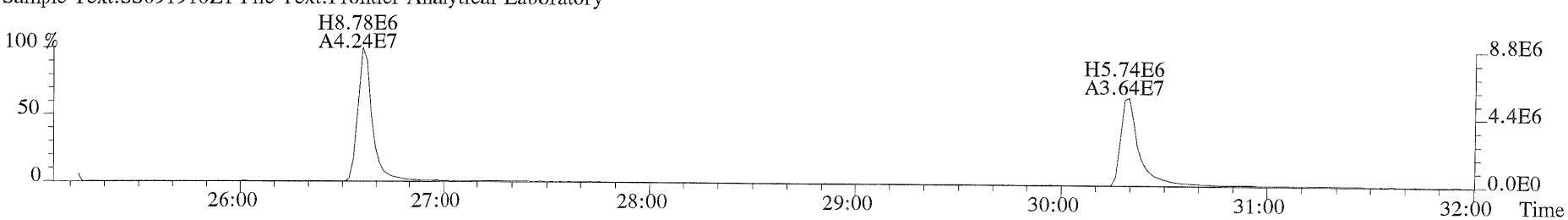
File:19SEP16Z #1-403 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



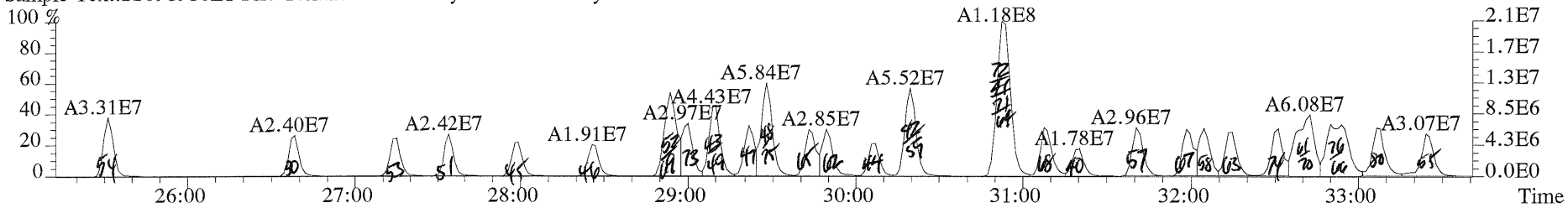
File:19SEP16Z #1-403 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



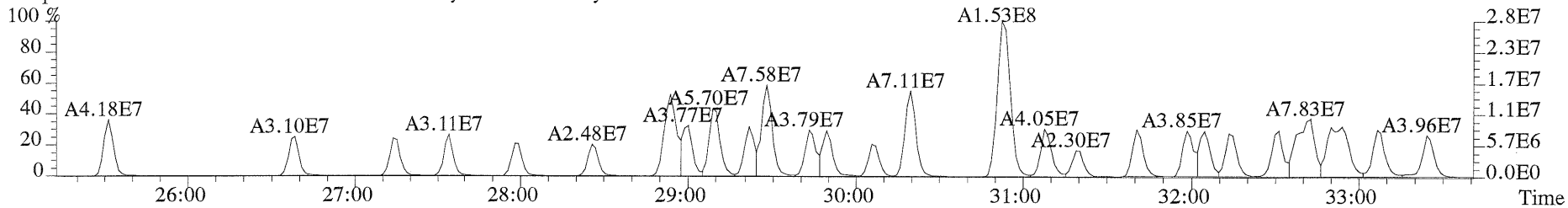
File:19SEP16Z #1-403 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



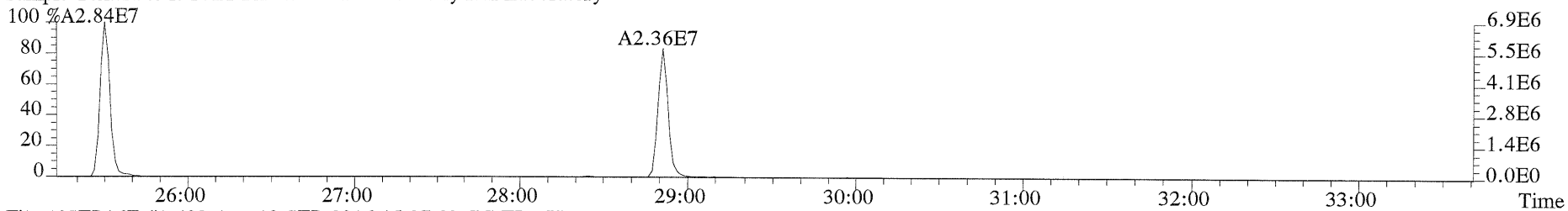
File:19SEP16Z #1-403 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



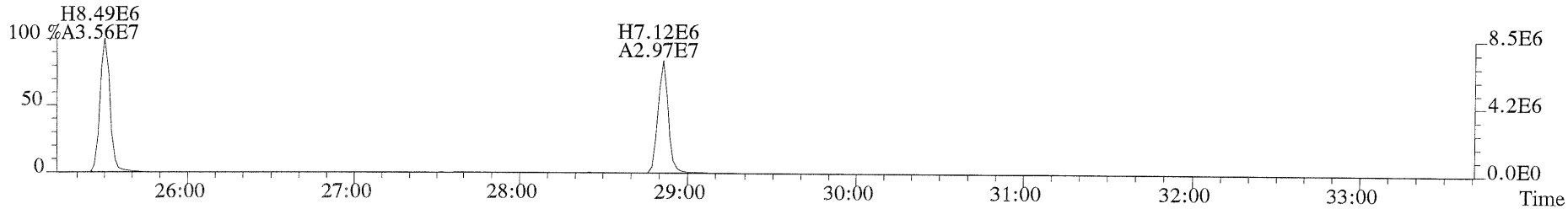
File:19SEP16Z #1-403 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



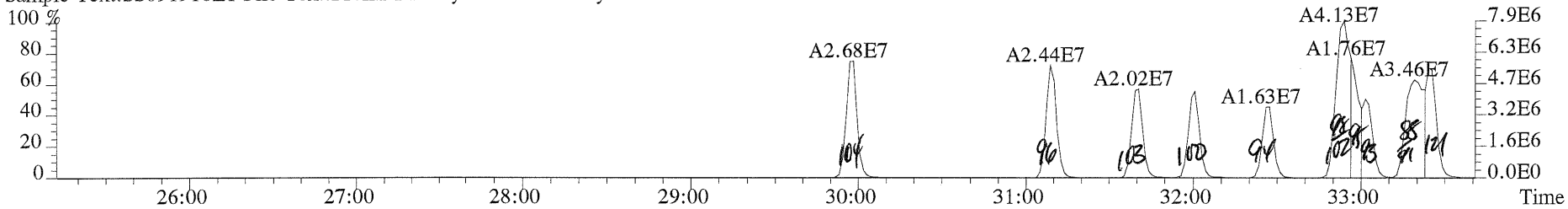
File:19SEP16Z #1-403 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



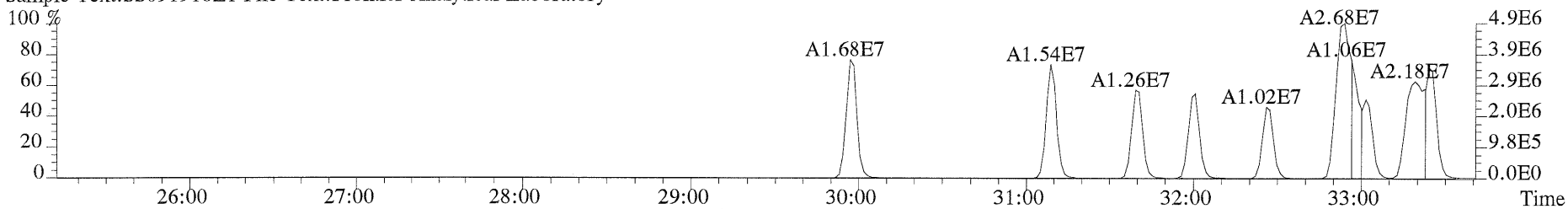
File:19SEP16Z #1-403 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



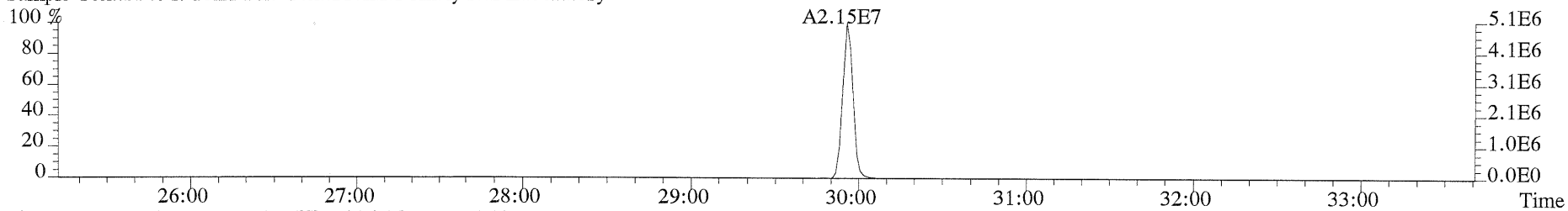
File:19SEP16Z #1-403 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



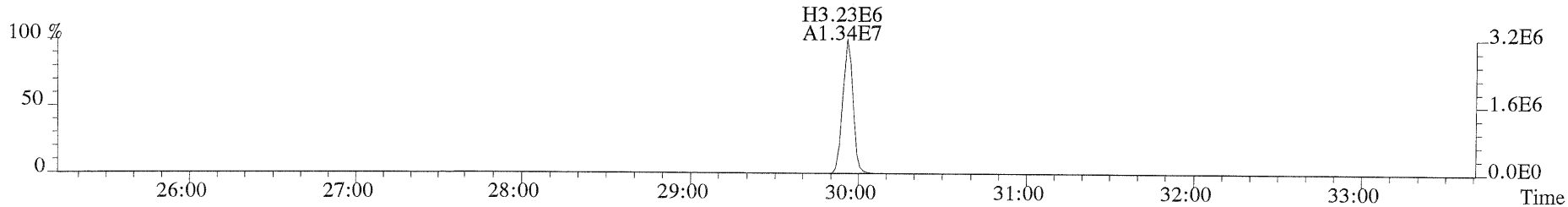
File:19SEP16Z #1-403 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



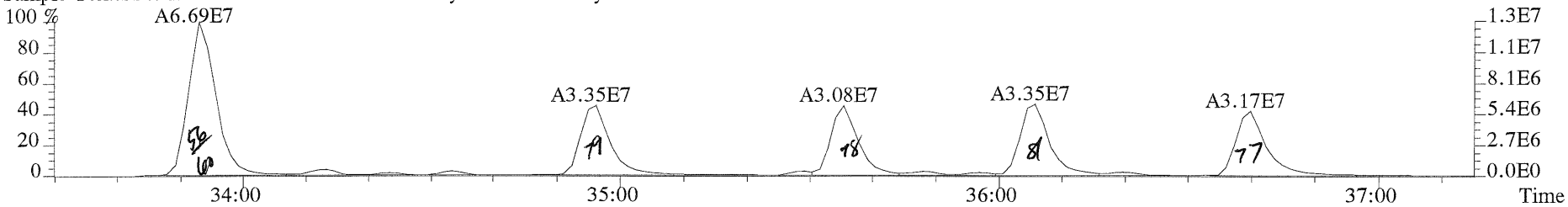
File:19SEP16Z #1-403 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



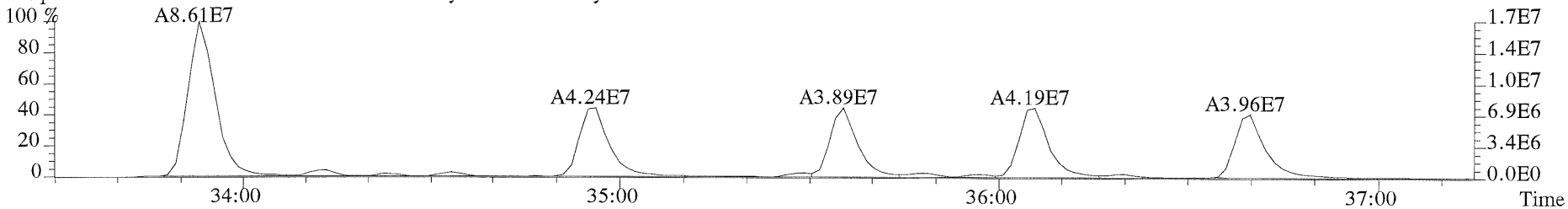
File:19SEP16Z #1-403 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



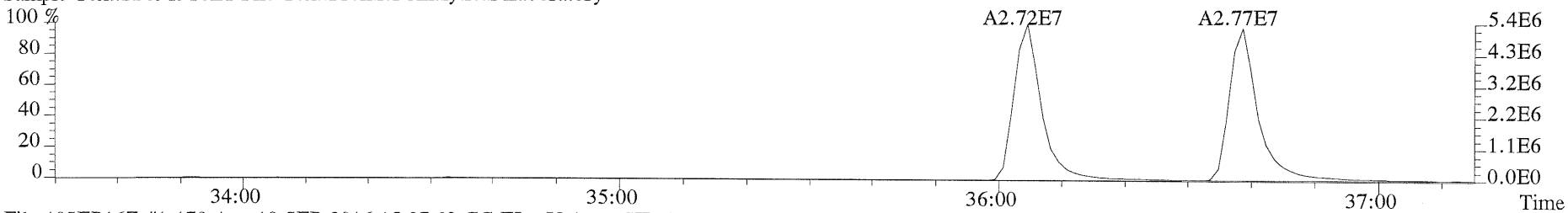
File:19SEP16Z #1-179 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



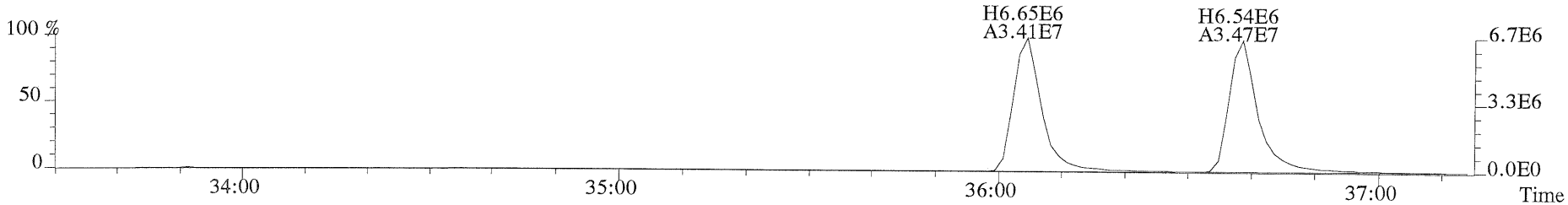
File:19SEP16Z #1-179 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



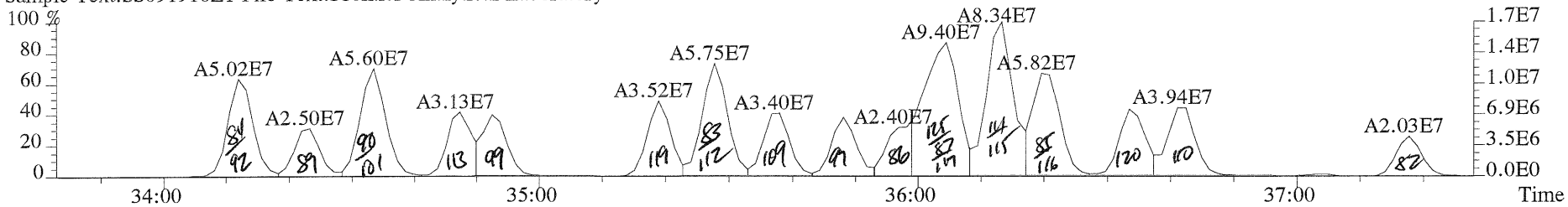
File:19SEP16Z #1-179 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



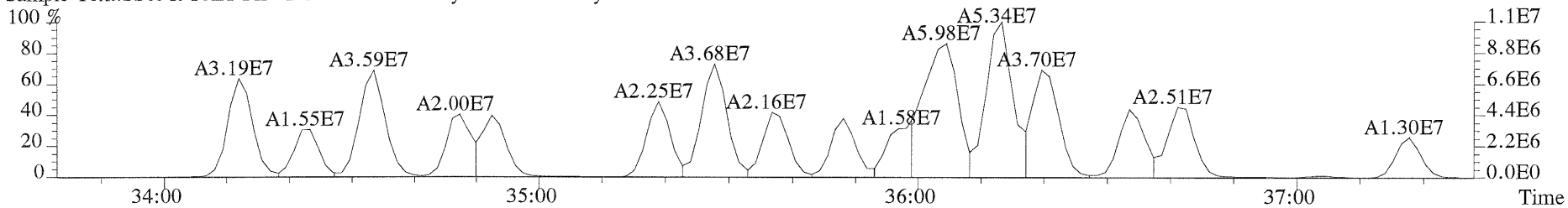
File:19SEP16Z #1-179 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



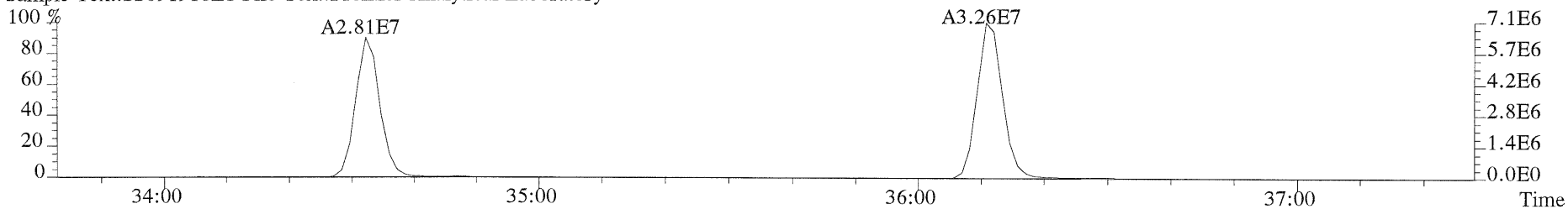
File:19SEP16Z #1-179 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



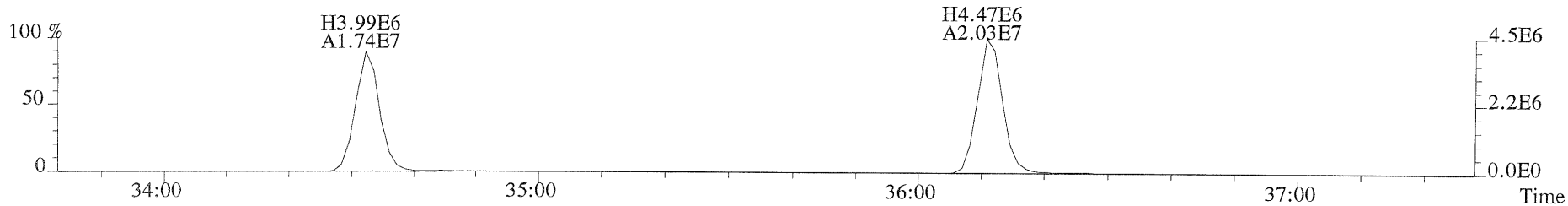
File:19SEP16Z #1-179 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



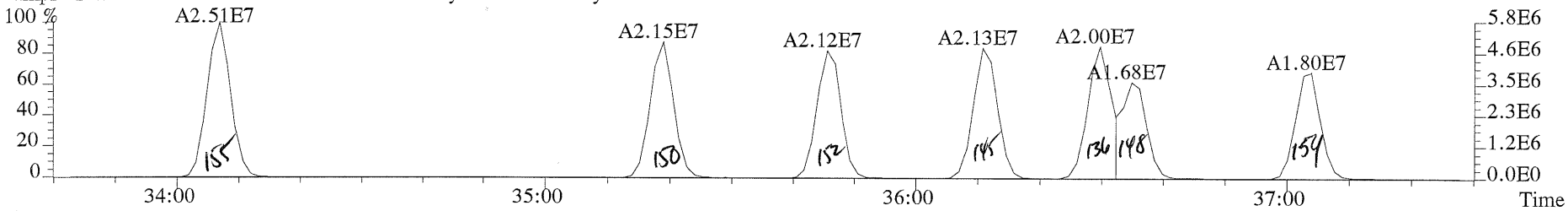
File:19SEP16Z #1-179 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



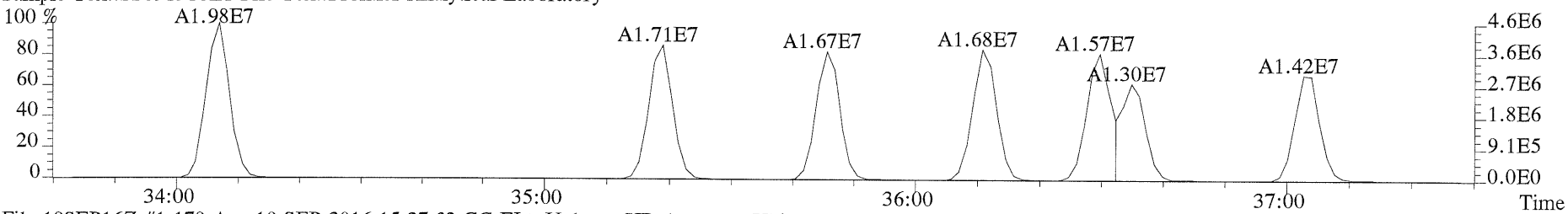
File:19SEP16Z #1-179 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



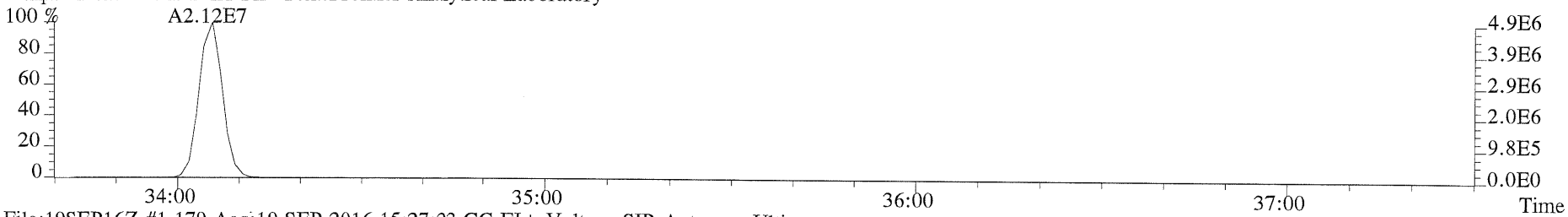
File:19SEP16Z #1-179 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



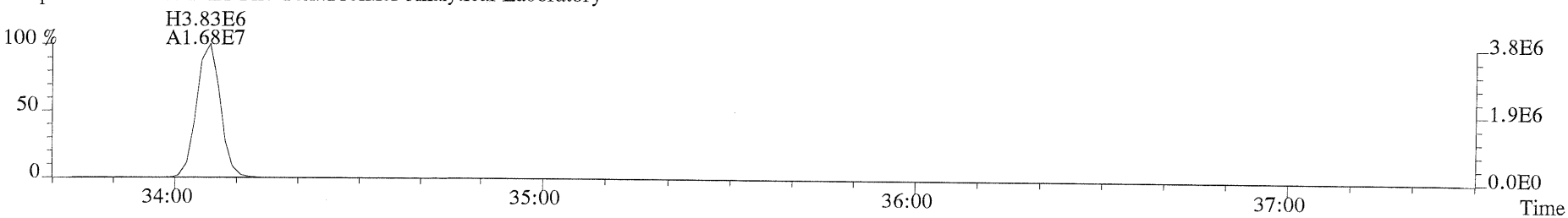
File:19SEP16Z #1-179 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



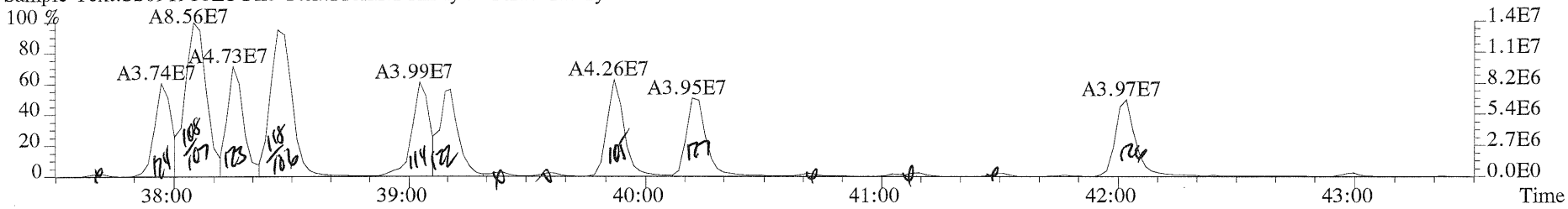
File:19SEP16Z #1-179 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



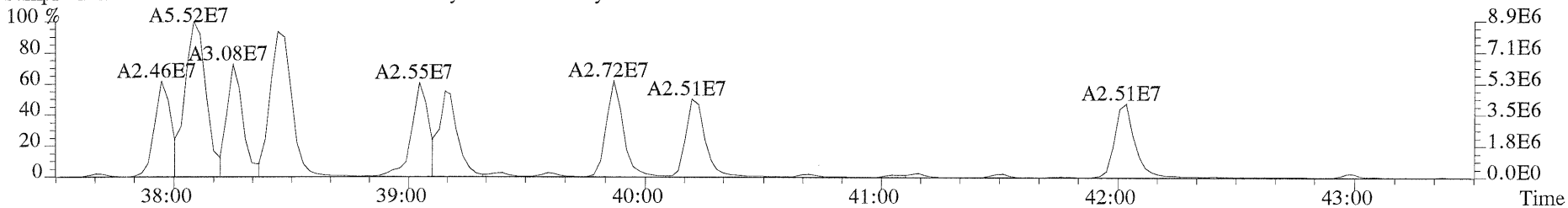
File:19SEP16Z #1-179 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



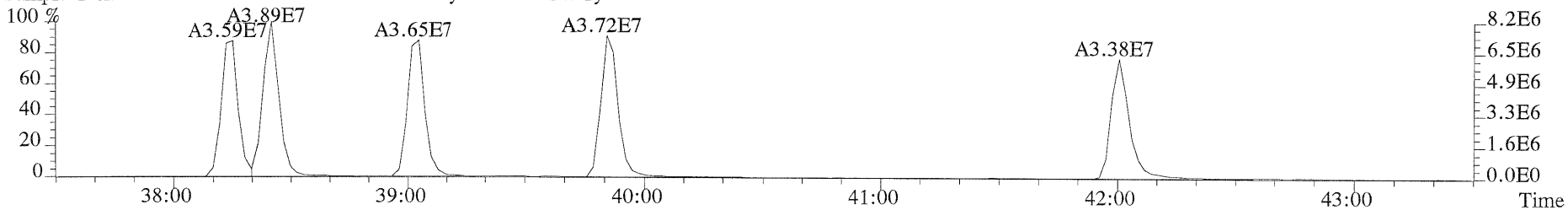
File:19SEP16Z #1-411 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



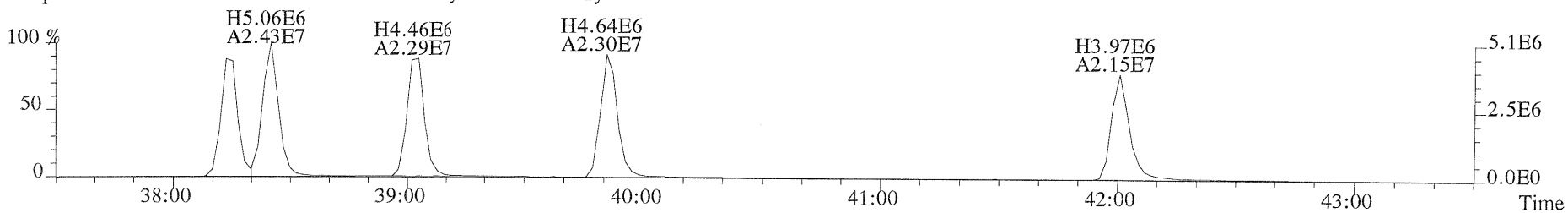
File:19SEP16Z #1-411 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



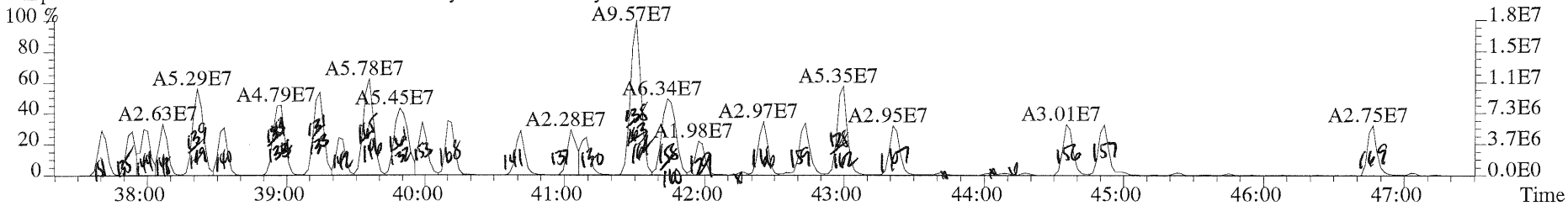
File:19SEP16Z #1-411 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



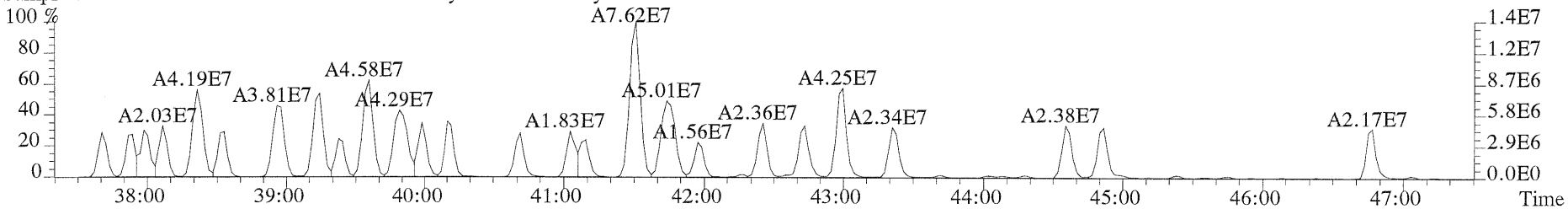
File:19SEP16Z #1-411 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



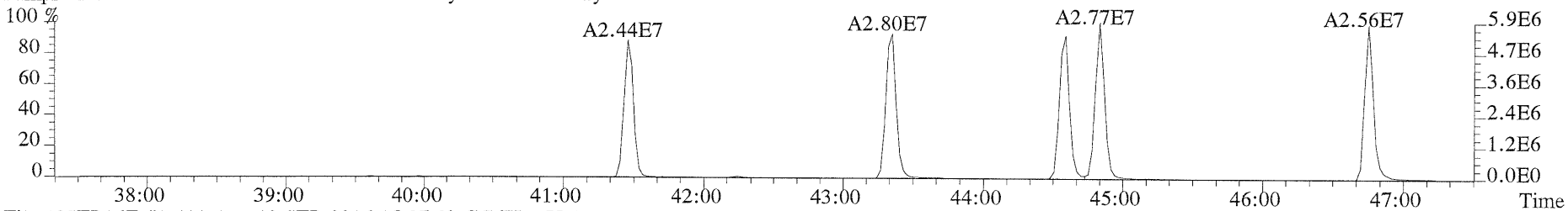
File:19SEP16Z #1-411 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



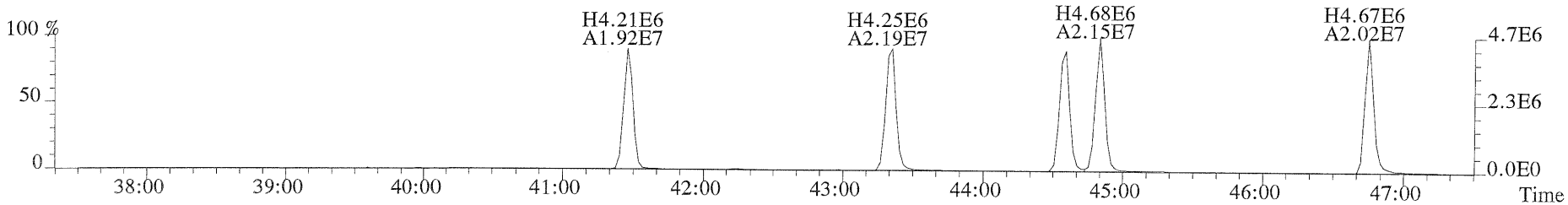
File:19SEP16Z #1-411 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



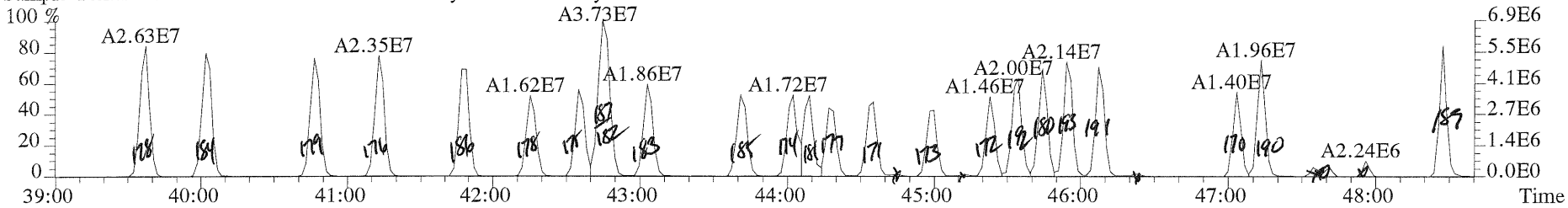
File:19SEP16Z #1-411 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



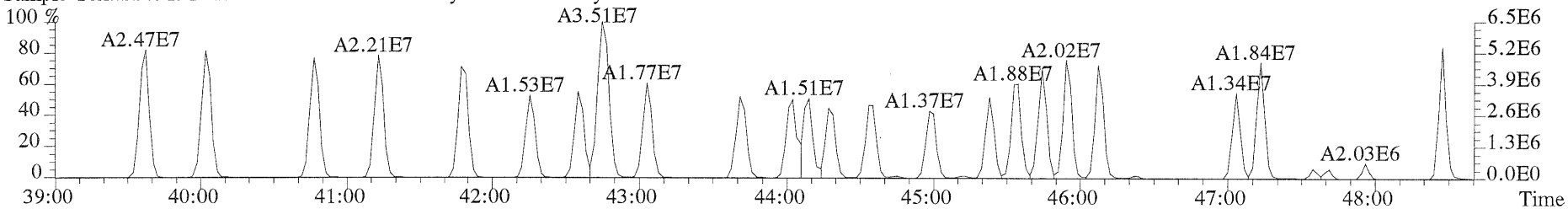
File:19SEP16Z #1-411 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



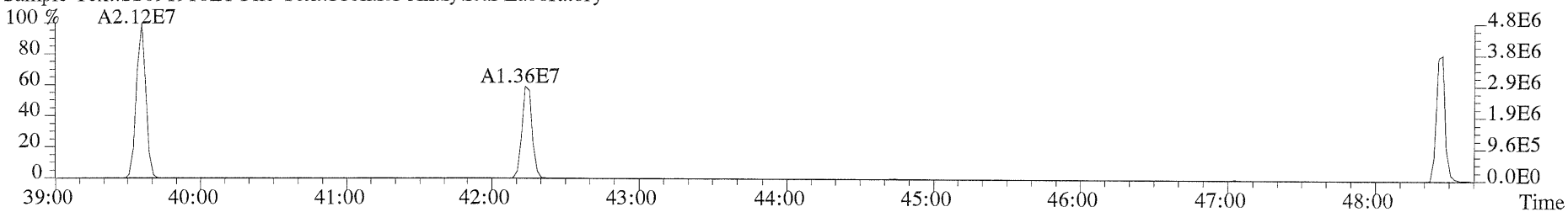
File:19SEP16Z #1-411 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



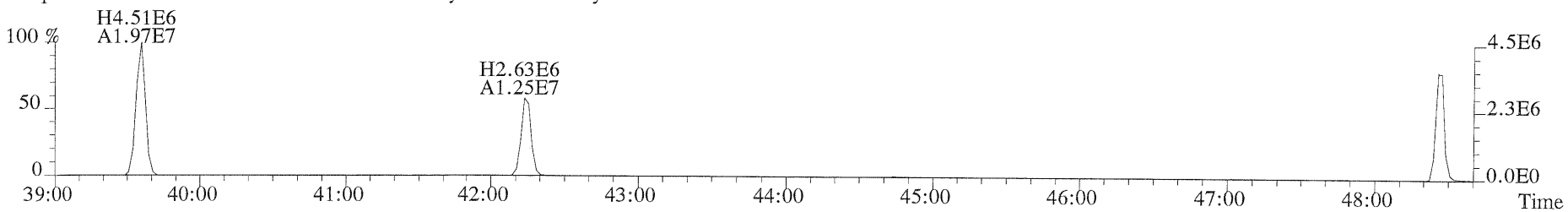
File:19SEP16Z #1-411 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



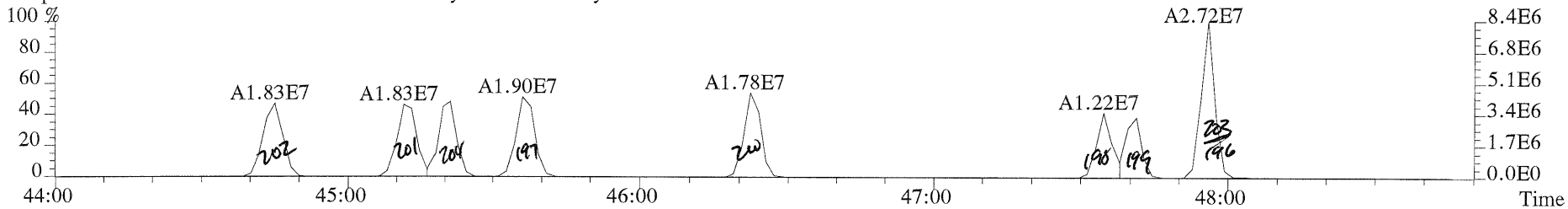
File:19SEP16Z #1-411 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



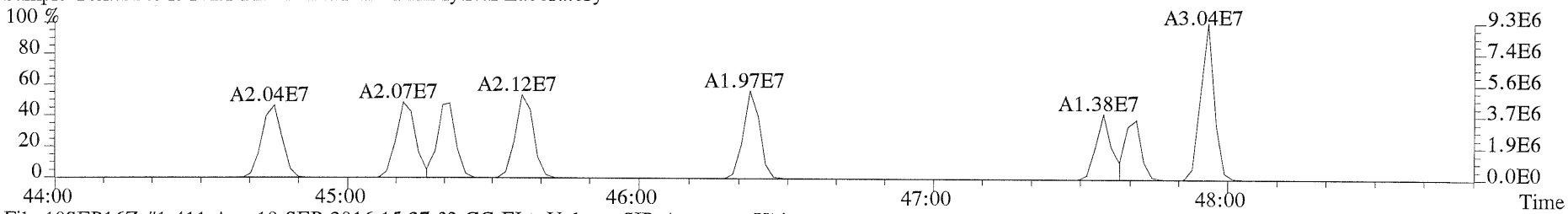
File:19SEP16Z #1-411 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



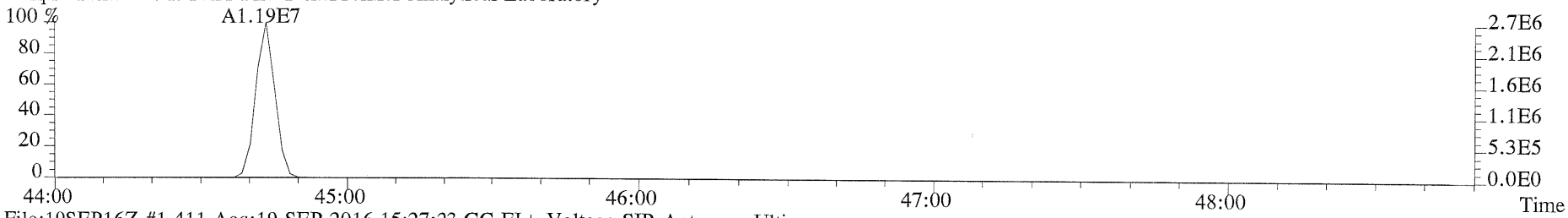
File:19SEP16Z #1-411 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



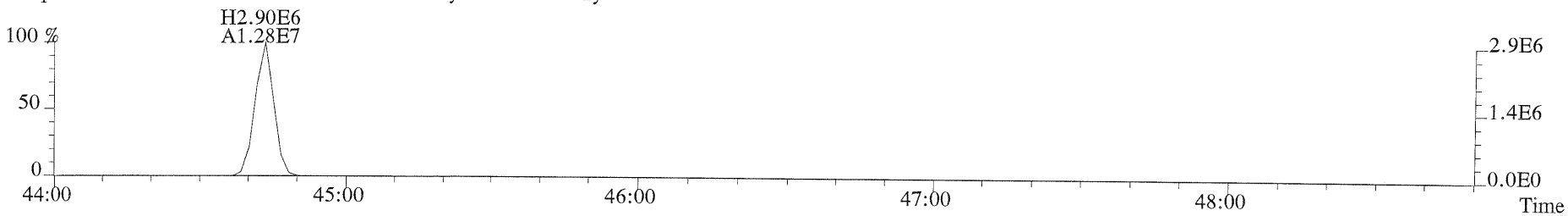
File:19SEP16Z #1-411 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



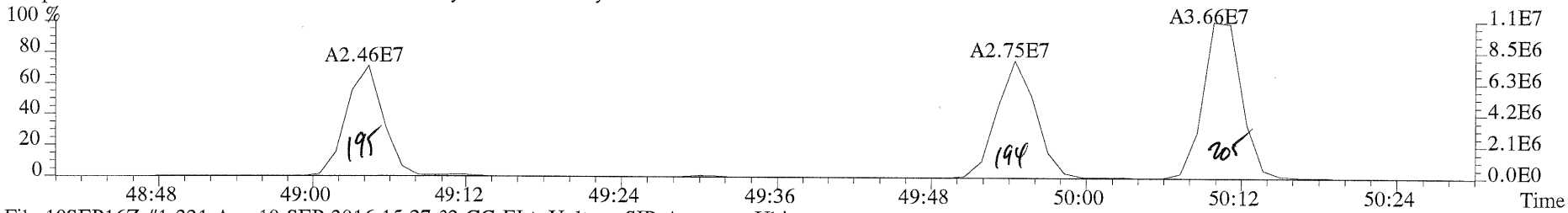
File:19SEP16Z #1-411 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



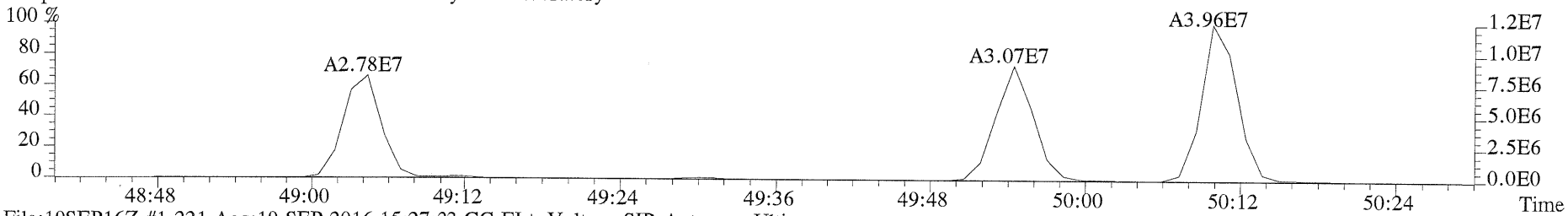
File:19SEP16Z #1-411 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



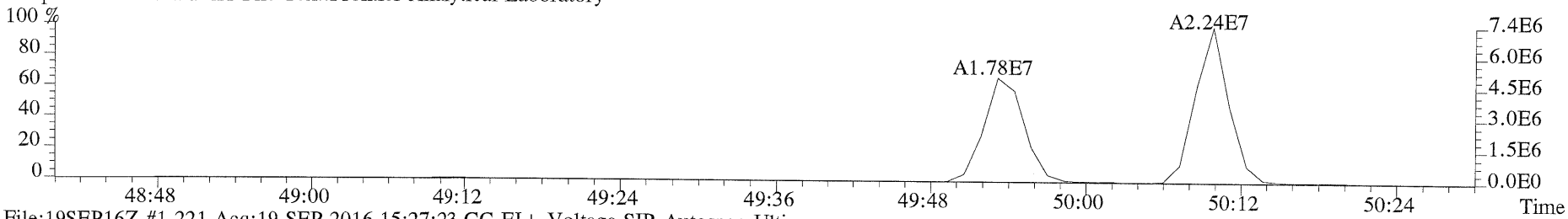
File:19SEP16Z #1-221 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



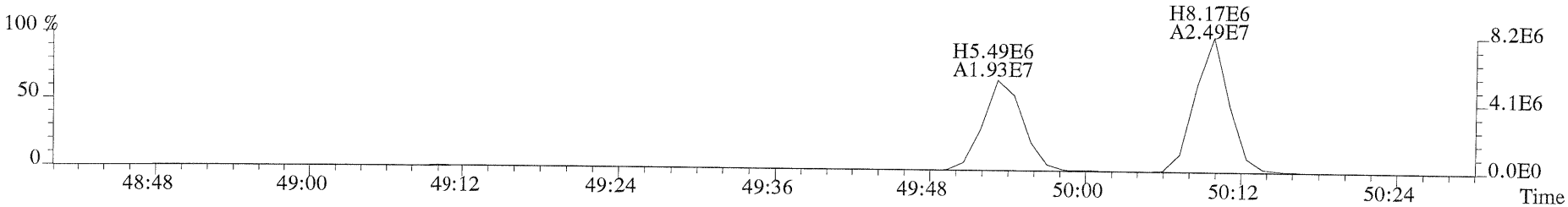
File:19SEP16Z #1-221 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



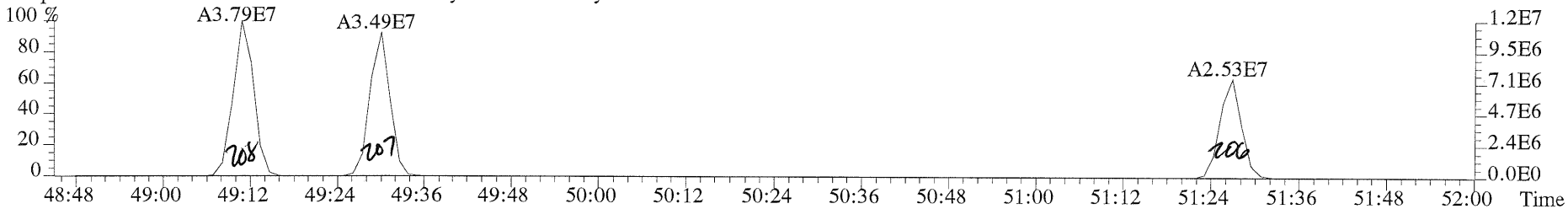
File:19SEP16Z #1-221 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



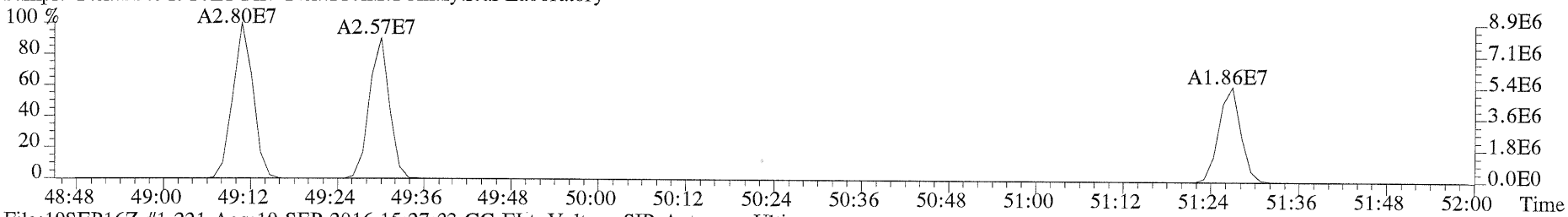
File:19SEP16Z #1-221 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



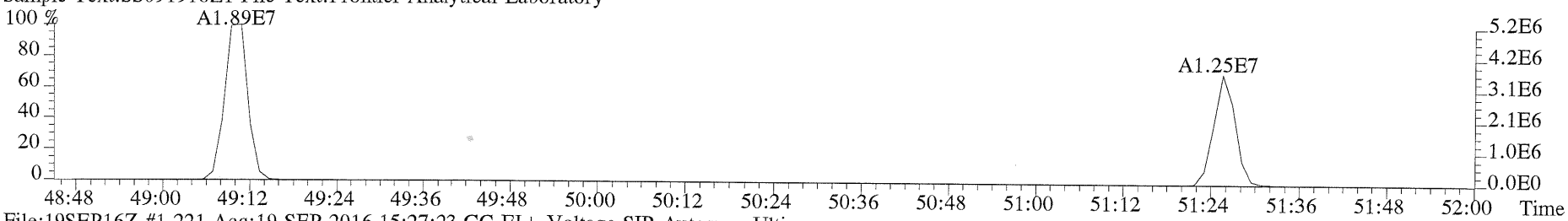
File:19SEP16Z #1-221 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



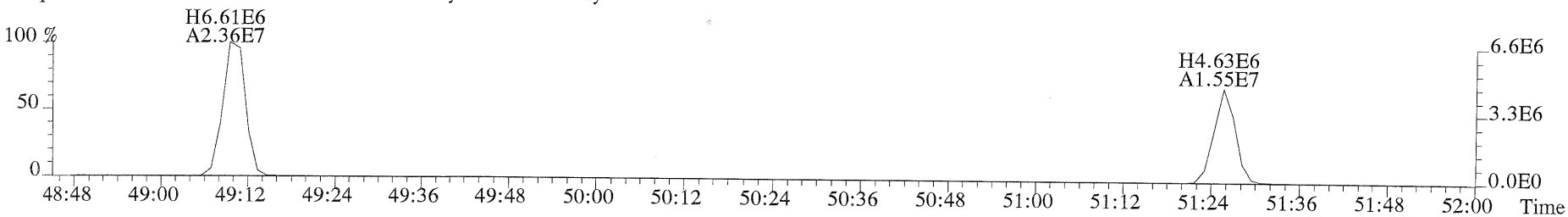
File:19SEP16Z #1-221 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



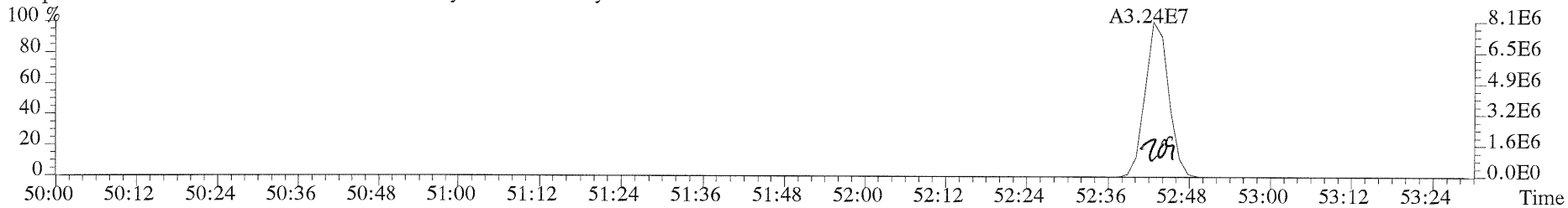
File:19SEP16Z #1-221 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



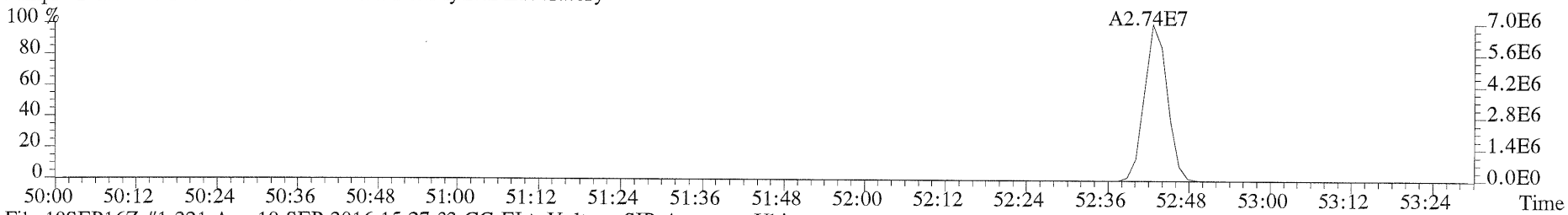
File:19SEP16Z #1-221 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



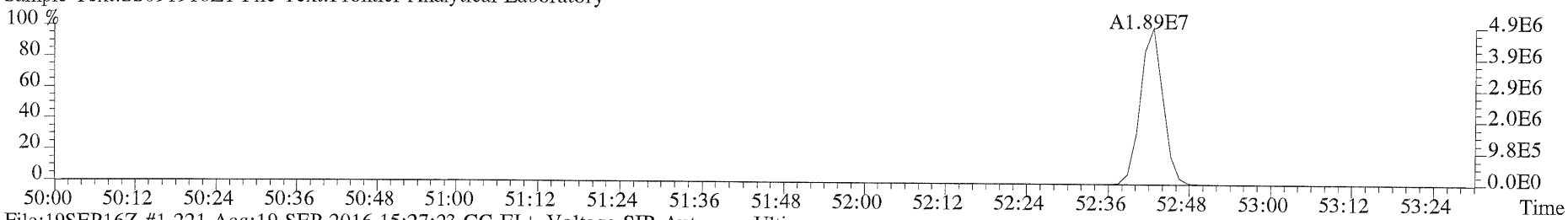
File:19SEP16Z #1-221 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



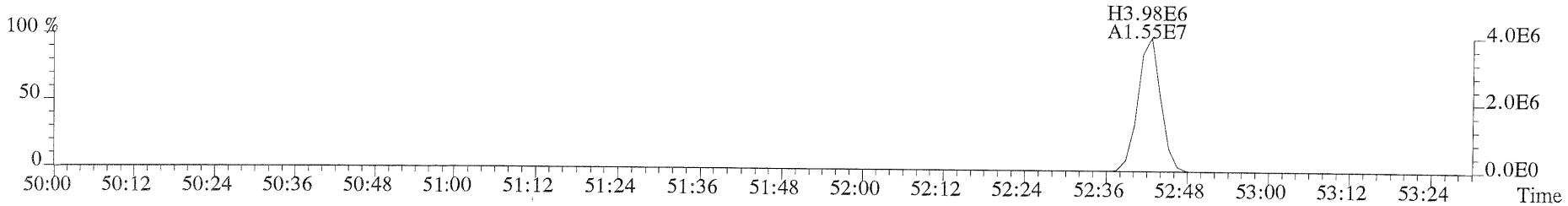
File:19SEP16Z #1-221 Acq:19-SEP-2016 15:27:23 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS091916Z1 File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 15:27:23 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:SS091916Z1 File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-221 Acq:19-SEP-2016 15:27:23 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:SS091916Z1 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: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 19SEP16Z Sam:15 Analysis Date: 20-SEP-16 03:41:16

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.16	2.66-3.60	y	54.7	37.5 - 62.5
PCB-3	M/M+2	3.16	2.66-3.60	y	56.0	37.5 - 62.5
PCB-4	M/M+2	1.49	1.33-1.79	y	44.5	37.5 - 62.5
PCB-15	M/M+2	1.50	1.33-1.79	y	48.0	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	54.2	37.5 - 62.5
PCB-37	M/M+2	0.99	0.88-1.20	y	46.3	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	53.0	37.5 - 62.5
PCB-77	M/M+2	0.76	0.65-0.89	y	48.1	37.5 - 62.5
PCB-81	M/M+2	0.75	0.65-0.89	y	48.1	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	55.9	37.5 - 62.5
PCB-105	M+2/M+4	1.53	1.32-1.78	y	45.7	37.5 - 62.5
PCB-114	M+2/M+4	1.52	1.32-1.78	y	46.4	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	1.47	1.32-1.78	y	48.5	37.5 - 62.5
PCB-126	M+2/M+4	1.42	1.32-1.78	y	47.0	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	53.3	37.5 - 62.5
PCB-156	M+2/M+4	1.28	1.05-1.43	y	52.9	37.5 - 62.5
PCB-157	M+2/M+4	1.29	1.05-1.43	y	53.9	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	53.3	37.5 - 62.5
PCB-169	M+2/M+4	1.29	1.05-1.43	y	52.7	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	56.2	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	52.5	37.5 - 62.5
PCB-202	M+2/M+4	0.89	0.76-1.02	y	52.9	37.5 - 62.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	50.5	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	54.8	37.5 - 62.5
PCB-208	M+4/M+6	1.38	1.13-1.53	y	51.1	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	51.5	37.5 - 62.5

Analyst: [illegible] Date: 9/20/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 19SEP16Z Sam:15 Analysis Date: 20-SEP-16 03:41:16

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.25	2.66-3.60	y	85.3	50.0 - 145
13C-PCB-3	M/M+2	3.33	2.66-3.60	y	76.1	50.0 - 145
13C-PCB-4	M/M+2	1.54	1.33-1.79	y	102	50.0 - 145
13C-PCB-15	M/M+2	1.56	1.33-1.79	y	86.1	50.0 - 145
13C-PCB-19	M/M+2	1.05	0.88-1.20	y	81.5	50.0 - 145
13C-PCB-37	M/M+2	1.10	0.88-1.20	y	83.7	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	97.9	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	110	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	106	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	75.5	50.0 - 145
13C-PCB-105	M+2/M+4	1.58	1.32-1.78	y	101	50.0 - 145
13C-PCB-114	M+2/M+4	1.58	1.32-1.78	y	105	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	109	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	98.2	50.0 - 145
13C-PCB-126	M+2/M+4	1.57	1.32-1.78	y	95.8	50.0 - 145
13C-PCB-155	M+2/M+4	1.27	1.05-1.43	y	82.4	50.0 - 145
13C-PCB-156	M+2/M+4	1.26	1.05-1.43	y	97.0	50.0 - 145
13C-PCB-157	M+2/M+4	1.24	1.05-1.43	y	101	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	100	50.0 - 145
13C-PCB-169	M+2/M+4	1.26	1.05-1.43	y	101	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	83.3	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	84.8	50.0 - 145
13C-PCB-202	M+2/M+4	0.93	0.76-1.02	y	70.2	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	107	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	97.2	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	101	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	91.7	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	87.3	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	101	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	88.4	75.0 - 125

Analyst: [signature] Date: 9/20/16

FAL ID: ST091916Z2 Filename: 19SEP16Z Sam:15 Acquired: 20-SEP-16 03:41:16 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R160816B ConCal: ST091916Z1 EndCal: ST091916Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	2.98e+07	3.16 y	14:29	1.05	54.7		2.50	-	-	*	-
13C-PCB-1	5.18e+07	3.25 y	14:28	1.14	85.3		2.50				85.3
PCB-3	2.64e+07	3.16 y	16:57	1.05	56.0		2.50	-	-	*	-
13C-PCB-3	4.51e+07	3.33 y	16:56	1.11	76.1		2.50				76.1
PCB-4	1.86e+07	1.49 y	18:09	1.14	44.5		2.50	-	-	*	-
13C-PCB-4	3.68e+07	1.54 y	18:07	0.68	102		2.50				102
PCB-15	2.46e+07	1.50 y	23:44	1.09	48.0		2.50	-	-	*	-
13C-PCB-15	4.71e+07	1.56 y	23:43	1.02	86.1		2.50				86.1
PCB-19	1.69e+07	1.06 y	22:01	1.16	54.2		2.50	-	-	*	-
13C-PCB-19	2.68e+07	1.05 y	21:60	0.61	81.5		2.50				81.5
13C-PCB-9	5.34e+07	1.59 y	19:49	-	39.1		2.50				
PCB-37	1.90e+07	0.99 y	30:24	1.14	46.3		2.50	-	-	*	-
13C-PCB-37	3.59e+07	1.10 y	30:22	1.38	83.7		2.50				83.7
PCB-54	2.13e+07	0.79 y	25:33	1.05	53.0		2.50	-	-	*	-
13C-PCB-54	3.83e+07	0.81 y	25:32	1.25	97.9		2.50				97.9
PCB-104	1.37e+07	1.59 y	29:60	1.14	55.9		2.50	-	-	*	-
13C-PCB-104	2.14e+07	1.60 y	29:57	0.91	75.5		2.50				75.5
13C-PCB-28	4.04e+07	1.05 y	26:39	1.48	87.3		2.50				87.3
13C-PCB-52	3.12e+07	0.79 y	28:53	-	37.4		2.50				
PCB-81	1.94e+07	0.75 y	36:09	1.14	48.1		2.50	-	-	*	-
13C-PCB-81	3.52e+07	0.80 y	36:07	1.27	106		2.50				106
PCB-77	1.93e+07	0.76 y	36:43	1.10	48.1		2.50	-	-	*	-
13C-PCB-77	3.65e+07	0.79 y	36:41	1.27	110		2.50				110
PCB-155	1.38e+07	1.28 y	34:09	1.11	53.3		2.50	-	-	*	-
13C-PCB-155	2.33e+07	1.27 y	34:07	1.09	82.4		2.50				82.4
13C-PCB-111	3.31e+07	1.60 y	36:14	1.25	101		2.50				101
13C-PCB-101	2.60e+07	1.58 y	34:35	-	35.7		2.50				
PCB-123	1.49e+07	1.47 y	38:19	1.05	48.5		2.50	-	-	*	-
13C-PCB-123	2.92e+07	1.59 y	38:17	1.20	98.2		2.50				98.2
PCB-118	1.78e+07	1.51 y	38:28	1.07	47.3		2.50	-	-	*	-
13C-PCB-118	3.53e+07	1.58 y	38:27	1.31	109		2.50				109
PCB-114	1.61e+07	1.52 y	39:06	1.08	46.4		2.50	-	-	*	-
13C-PCB-114	3.21e+07	1.58 y	39:05	1.23	105		2.50				105
PCB-105	1.53e+07	1.53 y	39:54	1.08	45.7		2.50	-	-	*	-
13C-PCB-105	3.09e+07	1.58 y	39:54	1.24	101		2.50				101
PCB-126	1.40e+07	1.42 y	42:04	1.07	47.0		2.50	-	-	*	-
13C-PCB-126	2.78e+07	1.57 y	42:04	1.17	95.8		2.50				95.8
PCB-167	1.60e+07	1.26 y	43:25	0.98	53.3		2.50	-	-	*	-
13C-PCB-167	3.07e+07	1.27 y	43:23	1.24	100		2.50				100
PCB-156	1.52e+07	1.28 y	44:39	1.01	52.9		2.50	-	-	*	-
13C-PCB-156	2.84e+07	1.26 y	44:37	1.18	97.0		2.50				97.0
PCB-157	1.59e+07	1.29 y	44:54	0.96	53.9		2.50	-	-	*	-
13C-PCB-157	3.07e+07	1.24 y	44:52	1.22	101		2.50				101
PCB-169	1.46e+07	1.29 y	46:49	1.00	52.7		2.50	-	-	*	-
13C-PCB-169	2.77e+07	1.26 y	46:47	1.11	101		2.50				101
PCB-188	1.55e+07	1.06 y	39:39	1.09	56.2		2.50	-	-	*	-
13C-PCB-188	2.52e+07	1.07 y	39:38	1.22	83.3		2.50				83.3
PCB-189	1.22e+07	1.06 y	48:29	1.14	52.5		2.50	-	-	*	-
13C-PCB-189	2.04e+07	1.06 y	48:28	0.97	84.8		2.50				84.8
PCB-202	8.50e+06	0.89 y	44:47	1.05	52.9		2.50	-	-	*	-
13C-PCB-202	1.52e+07	0.93 y	44:45	0.88	70.2		2.50				70.2
13C-PCB-178	1.69e+07	1.08 y	42:17	0.77	88.4		2.50				88.4
13C-PCB-138	2.48e+07	1.29 y	41:31	-	35.5		2.50				

FAL ID: ST091916Z2 Filename: 19SEP16Z Sam:15 Acquired: 20-SEP-16 03:41:16 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R160816B ConCal: ST091916Z1 EndCal: ST091916Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	1.38e+07	0.88 y	50:13	1.02	50.5	2.50	-	-	*	-
13C-PCB-205	2.68e+07	0.89 y	50:11	1.38	107	2.50				107
PCB-208	1.15e+07	1.38 y	49:14	0.93	51.1	2.50	-	-	*	-
13C-PCB-208	2.41e+07	0.81 y	49:12	1.31	101	2.50				101
PCB-206	9.22e+06	1.37 y	51:29	0.94	54.8	2.50	-	-	*	-
13C-PCB-206	1.79e+07	0.80 y	51:27	1.01	97.2	2.50				97.2
PCB-209	1.27e+07	1.18 y	52:46	1.10	51.5	2.50	-	-	*	-
13C-PCB-209	2.24e+07	1.21 y	52:46	1.34	91.7	2.50				91.7
13C-PCB-194	1.82e+07	0.92 y	49:56	-	36.2	2.50				

Analyst: _____ Date: 9/20/16

Frontier Analytical Laboratory - Acquisition Log

Run Name:19SEP16Z Instrument: FAL4 GC: DB1 Experiment:1668PCB

Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
19SEP16Z	1	ST091916Z1	1668 CS3 R160816B	19-SEP-16 14:30:56	ST091916Z1	ST091916Z2	BS
19SEP16Z	2	SS091916Z1	Daily 209 160711B	19-SEP-16 15:27:23	ST091916Z1	ST091916Z2	BS
19SEP16Z	3	03849-001-0001-OPR	OPR	19-SEP-16 16:23:52	ST091916Z1	ST091916Z2	BS
19SEP16Z	4	03849-001-0001-MB	Method Blank	19-SEP-16 17:20:19	ST091916Z1	ST091916Z2	BS
19SEP16Z	5	10146-001-0001-SA	LDW-BA-SC-ENR+AC-CA-S010	19-SEP-16 18:16:48	ST091916Z1	ST091916Z2	BS
19SEP16Z	6	10146-002-0001-SA	LDW-BA-SC-ENR+AC-CB-S010*	19-SEP-16 19:13:16	ST091916Z1	ST091916Z2	BS
19SEP16Z	7	10146-003-0001-SA	LDW-BA-SC-ENR+AC-CC-S010	19-SEP-16 20:09:44	ST091916Z1	ST091916Z2	BS
19SEP16Z	8	10146-004-0001-SA	LDW-BA-SC-ENR-CA-S010	19-SEP-16 21:06:11	ST091916Z1	ST091916Z2	BS
19SEP16Z	9	10146-005-0001-SA	LDW-BA-SC-ENR-CB-S010*	19-SEP-16 22:02:38	ST091916Z1	ST091916Z2	BS
19SEP16Z	10	10146-006-0001-SA	LDW-BA-SC-ENR-CC-S010	19-SEP-16 22:59:03	ST091916Z1	ST091916Z2	BS
19SEP16Z	11	10146-007-0001-SA	LDW-BA-IN-ENR+AC-CA-S010*	19-SEP-16 23:55:30	ST091916Z1	ST091916Z2	BS
19SEP16Z	12	10146-008-0001-SA	LDW-BA-IN-ENR+AC-CB-S010	20-SEP-16 00:51:57	ST091916Z1	ST091916Z2	BS
19SEP16Z	13	10146-009-0001-SA	LDW-BA-IN-ENR+AC-CC-S010	20-SEP-16 01:48:23	ST091916Z1	ST091916Z2	BS
19SEP16Z	14	SB091916Z1	Solvent Blank	20-SEP-16 02:44:50	ST091916Z1	ST091916Z2	BS
19SEP16Z	15	ST091916Z2	1668 CS3 R160816B	20-SEP-16 03:41:16	ST091916Z1	ST091916Z2	BS
19SEP16Z	16	SB091916Z1	Solvent Blank	20-SEP-16 04:37:44	ST091916Z2	ST091916Z3	BS
19SEP16Z	17	10146-010-0001-SA	LDW-BA-IN-ENR-CA-S010	20-SEP-16 05:34:10	ST091916Z2	ST091916Z3	BS
19SEP16Z	18	10146-011-0001-SA	LDW-BA-IN-ENR-CB-S010	20-SEP-16 06:30:36	ST091916Z2	ST091916Z3	BS
19SEP16Z	19	10146-012-0001-SA	LDW-BA-IN-ENR-CC-S010	20-SEP-16 07:27:04	ST091916Z2	ST091916Z3	BS
19SEP16Z	20	ST091916Z3	1668 CS3 R160816B	20-SEP-16 08:23:33	ST091916Z2	ST091916Z3	BS

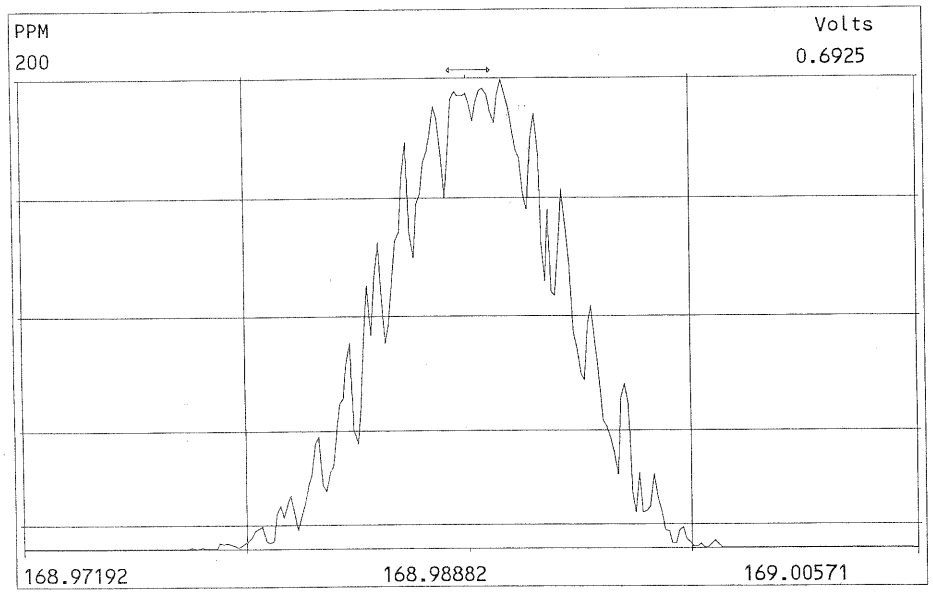
* Bad Injection - Reanalyze on 21SEP16Z

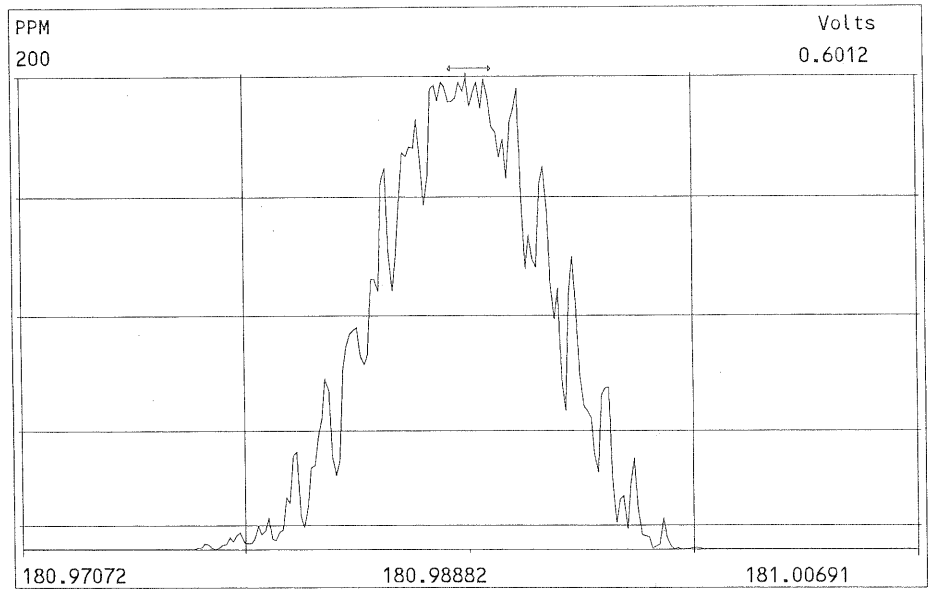
BS 9/20/16

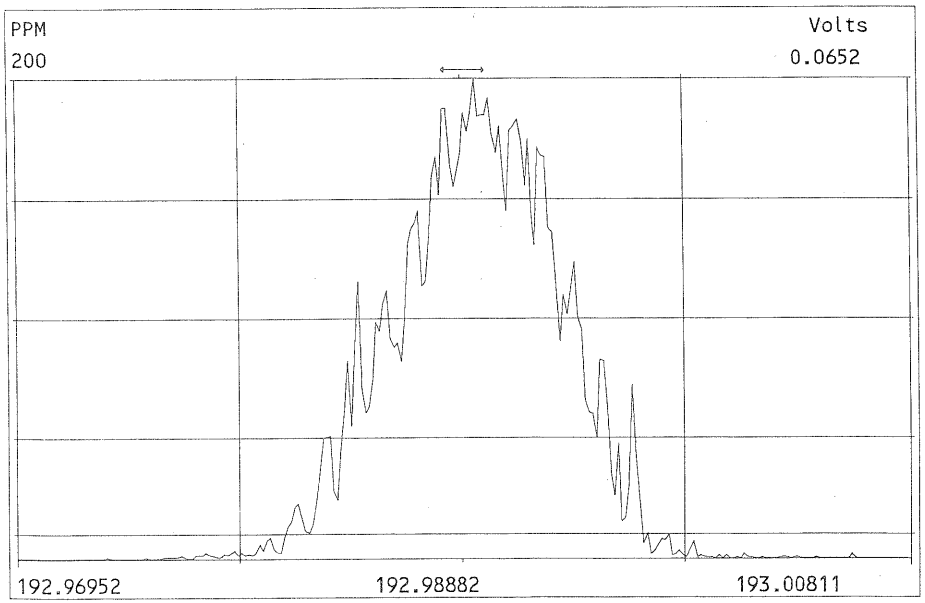
Data Backed Up:_____

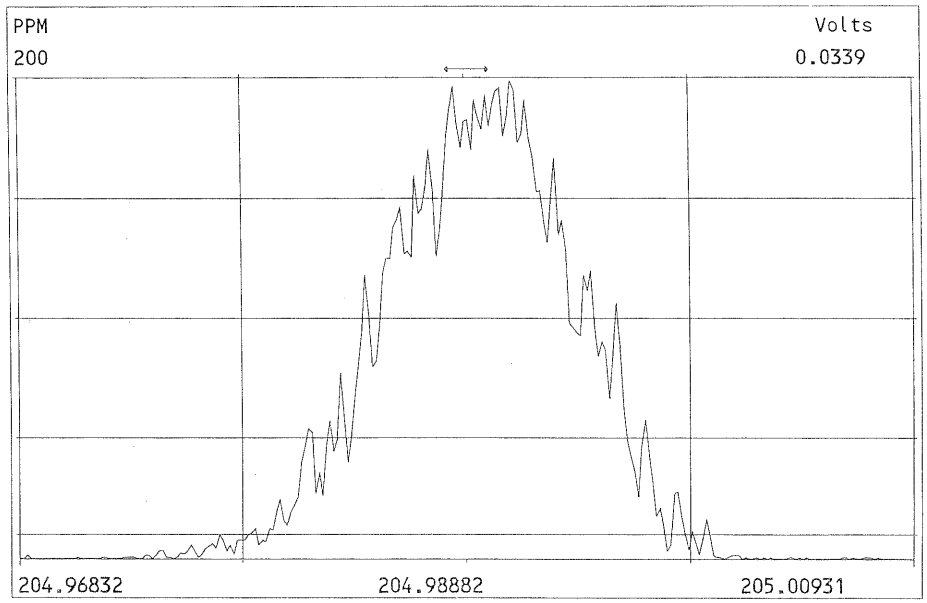
Date:_____

Peak Locate Examination:19-SEP-2016:14:27 File:19SEP16Z
Experiment:1668PCB Function:1 Reference:PFK

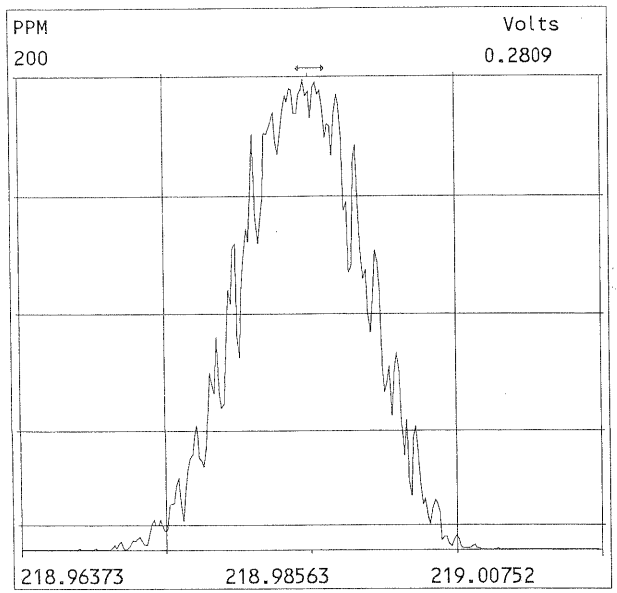


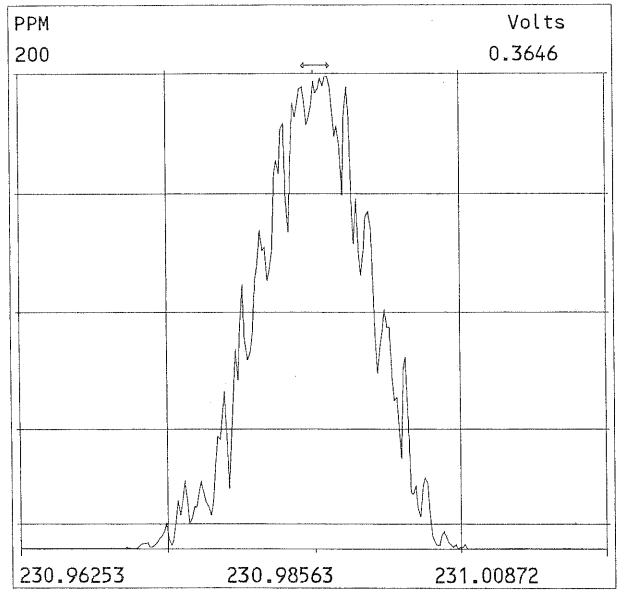


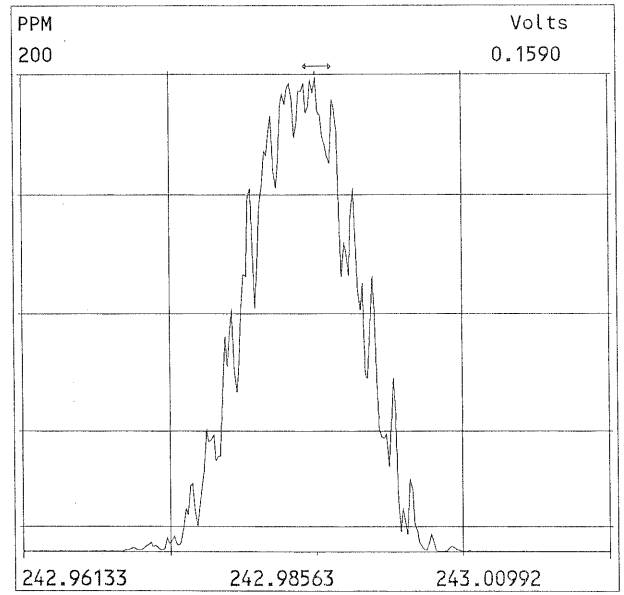


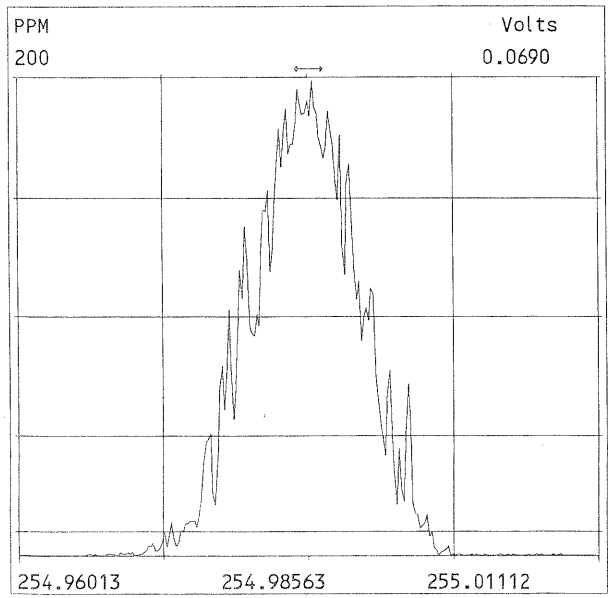


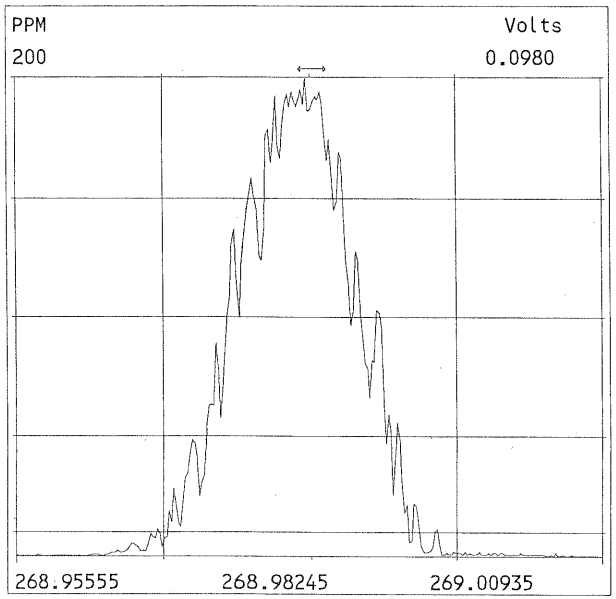
Peak Locate Examination:19-SEP-2016:14:28 File:19SEP16Z
Experiment:1668PCB Function:2 Reference:PFK

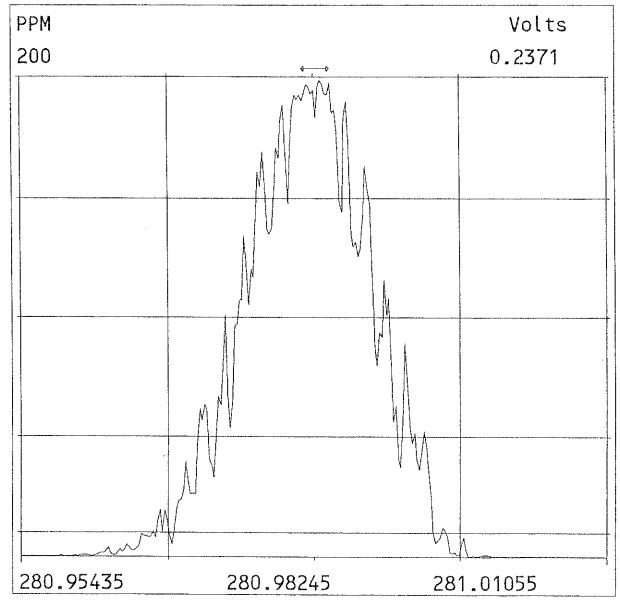




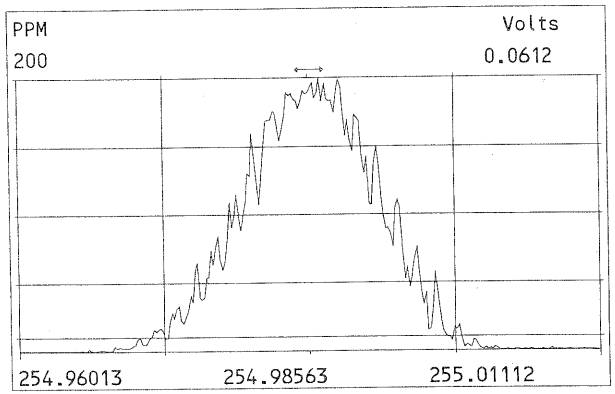


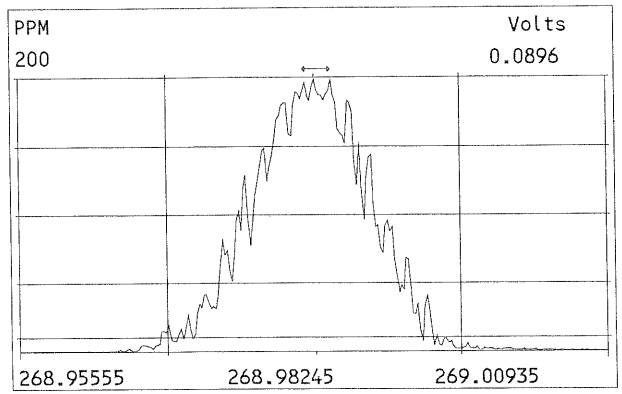


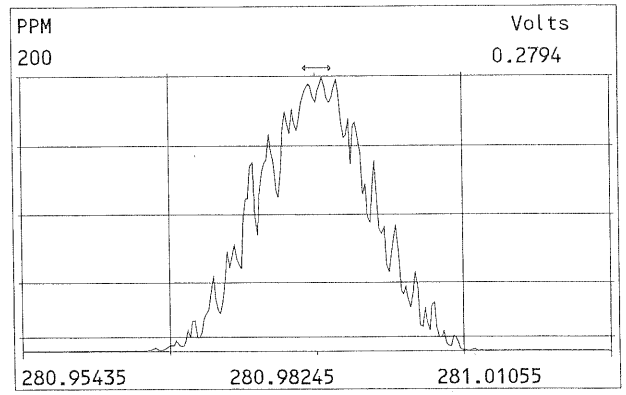


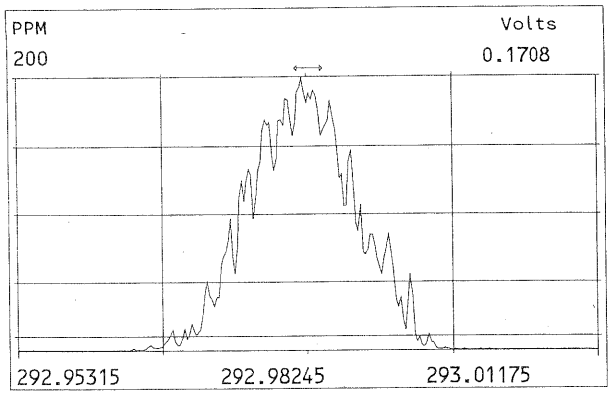


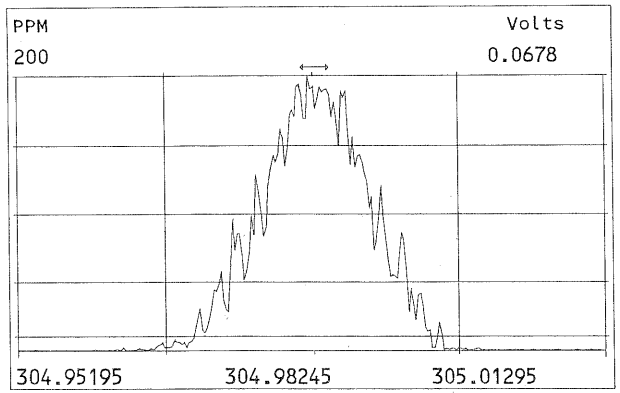
Peak Locate Examination:19-SEP-2016:14:28 File:19SEP16Z
Experiment:1668PCB Function:3 Reference:PFK

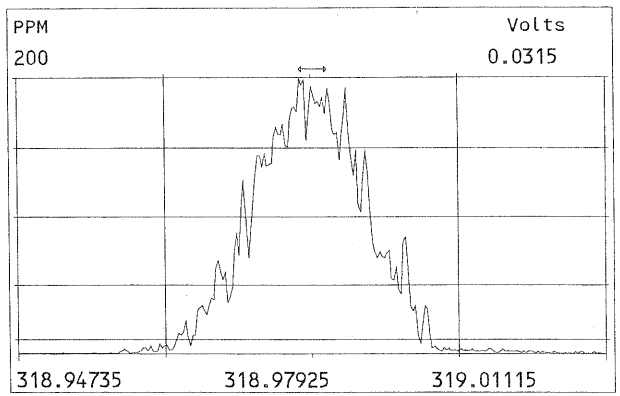


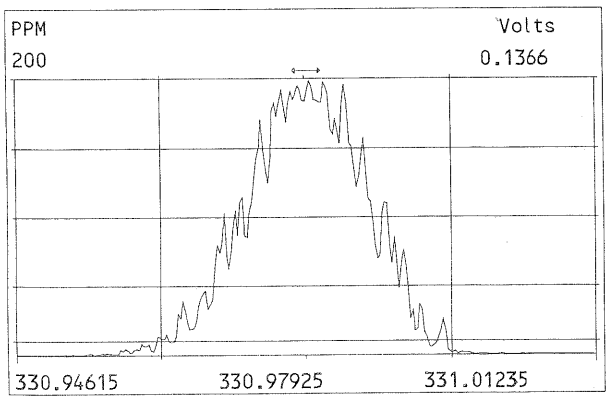


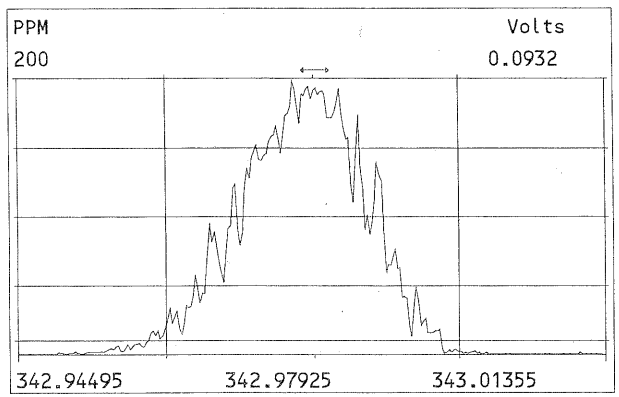




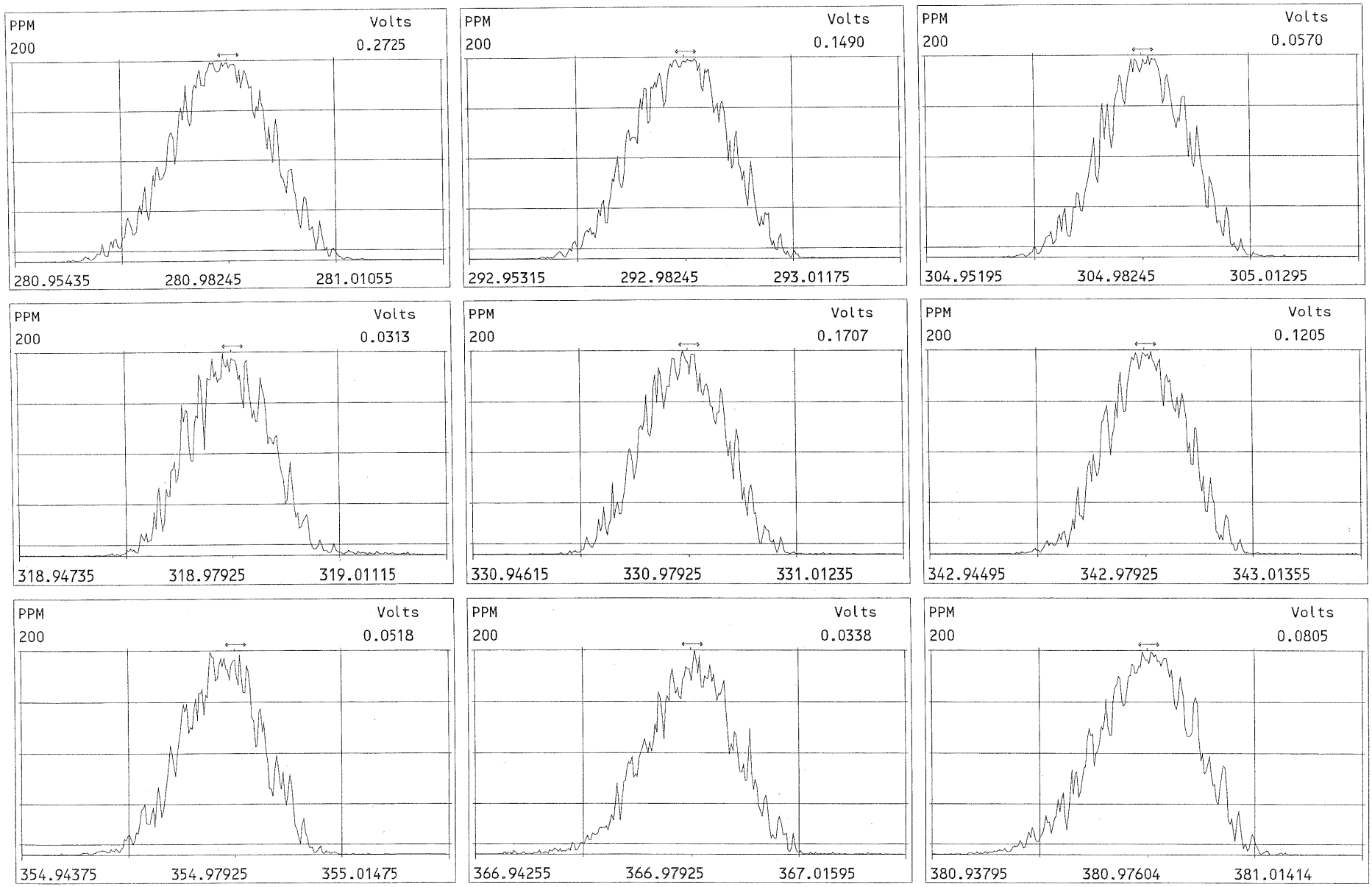




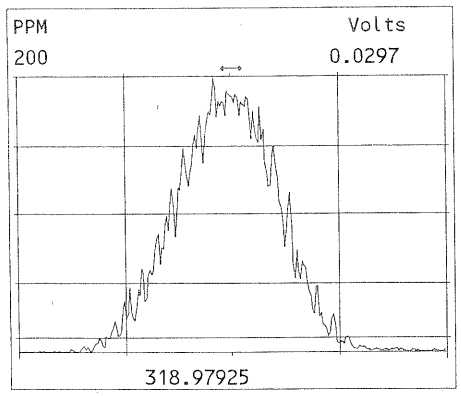


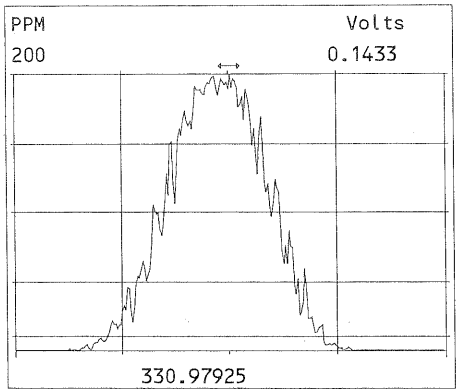


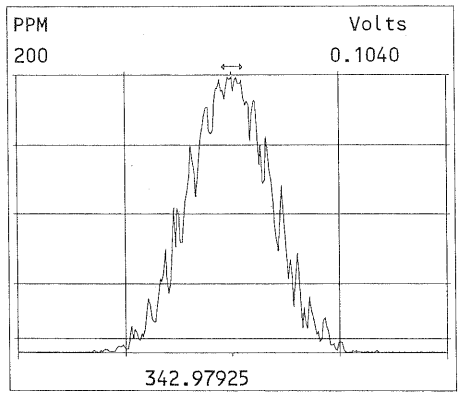
Peak Locate Examination:19-SEP-2016:14:29 File:19SEP16Z
Experiment:1668PCB Function:4 Reference:PFK

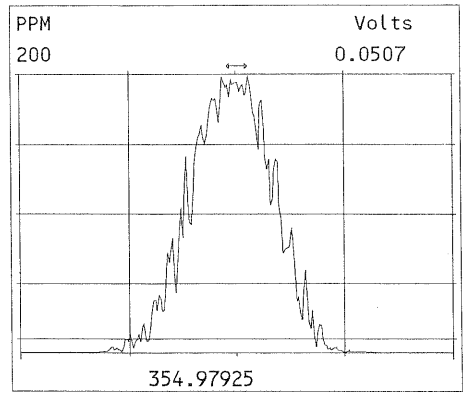


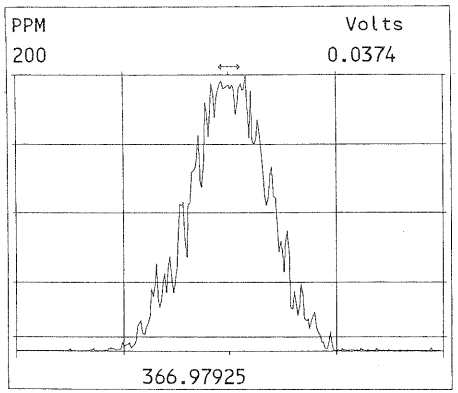
Peak Locate Examination:19-SEP-2016:14:29 File:19SEP16Z
Experiment:1668PCB Function:5 Reference:PFK

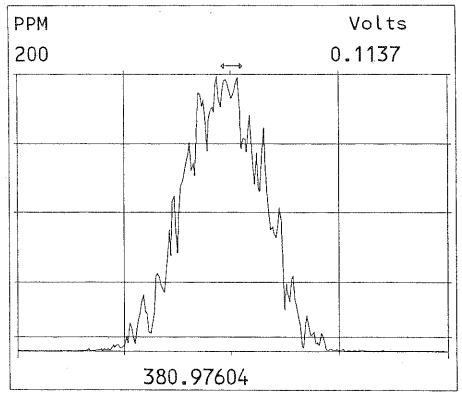


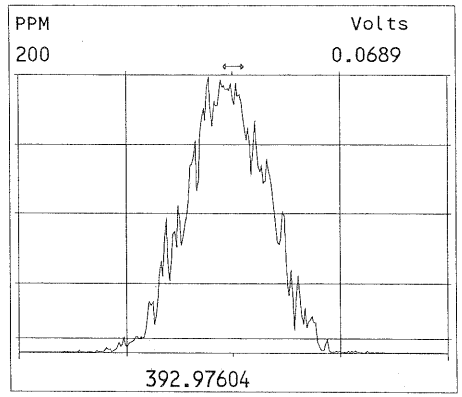


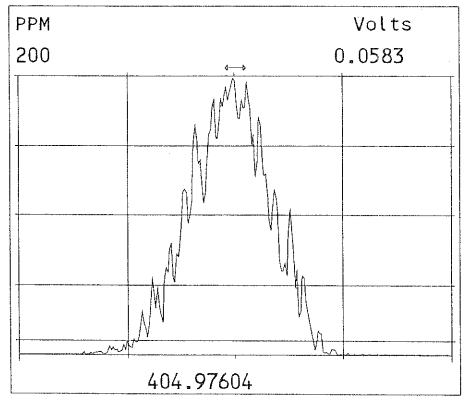


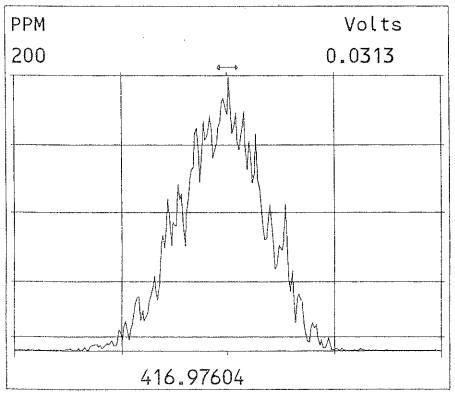


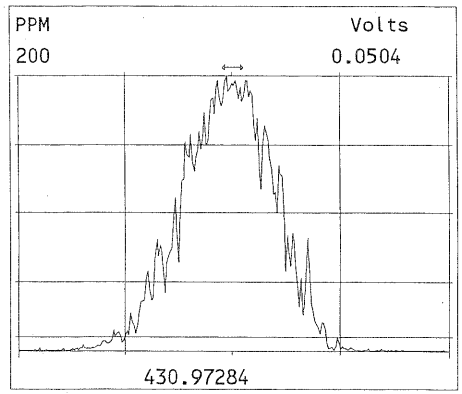


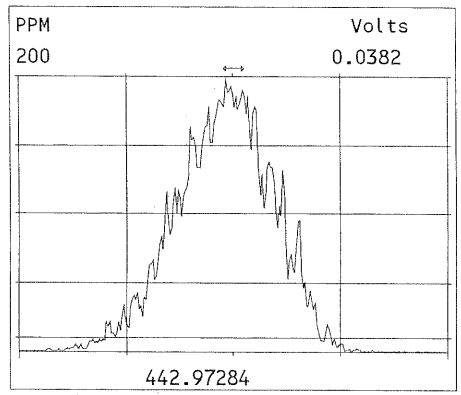




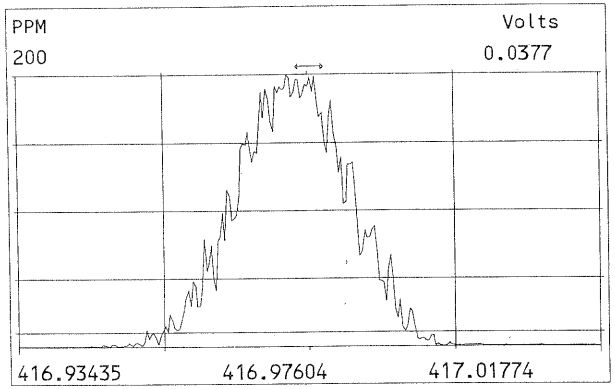


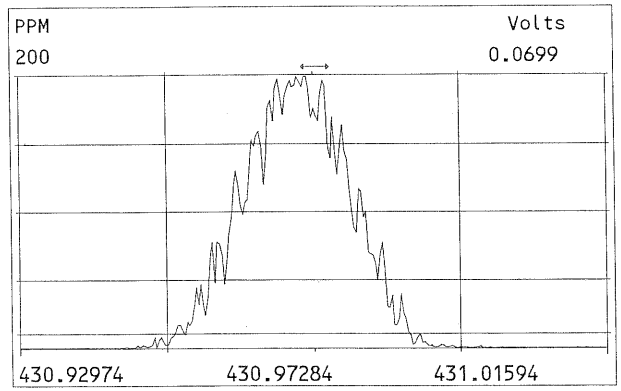


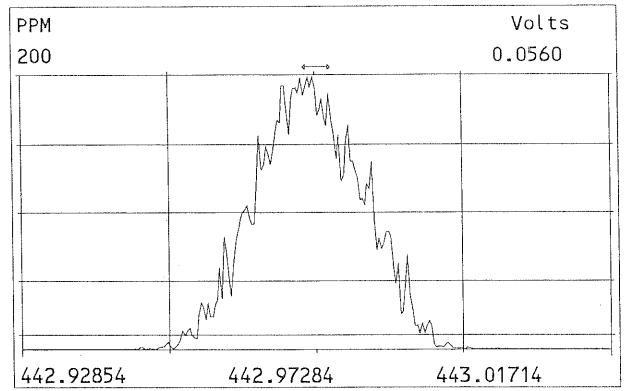


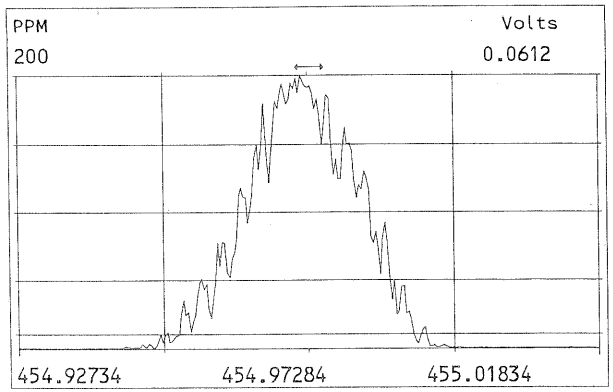


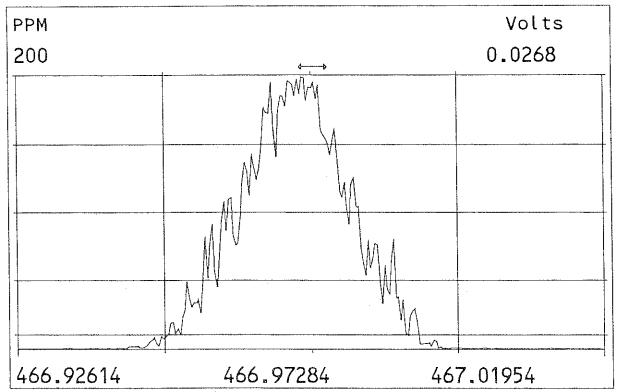
Peak Locate Examination:19-SEP-2016:14:30 File:19SEP16Z
Experiment:1668PCB Function:6 Reference:PFK

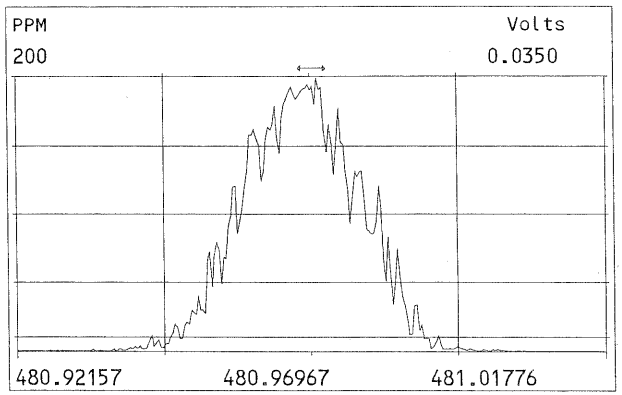


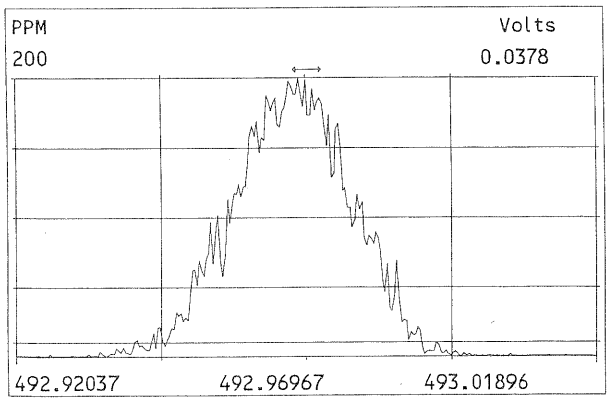


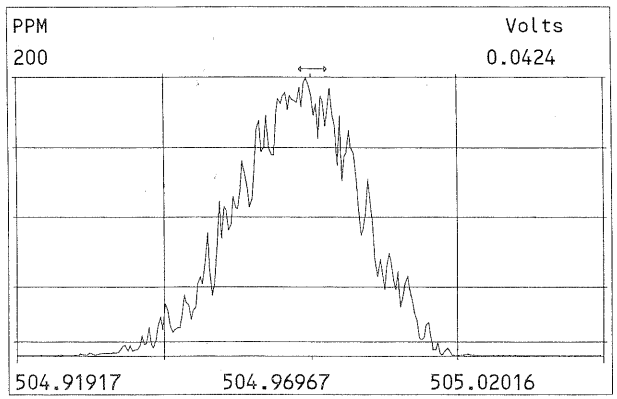


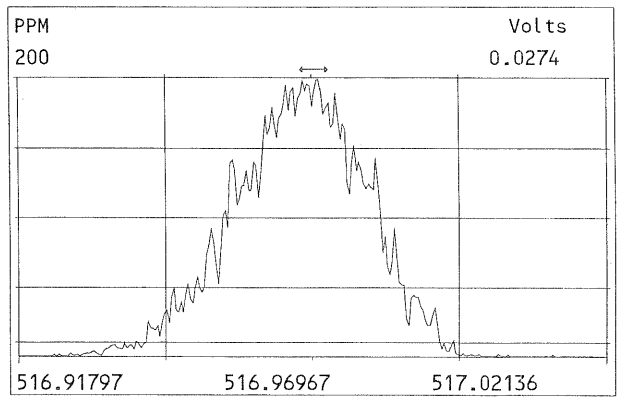




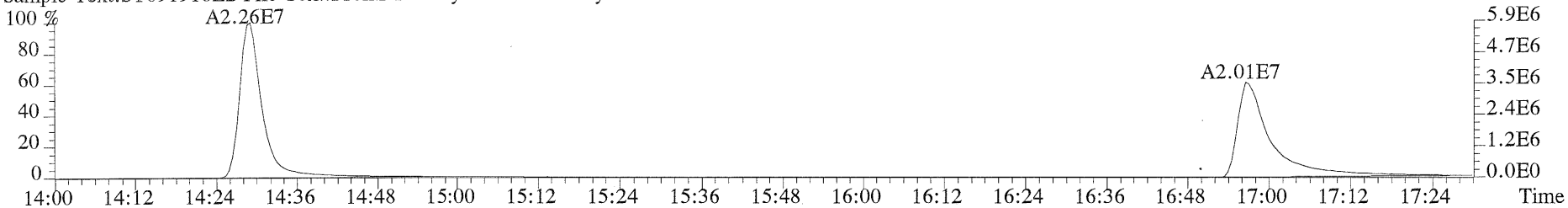




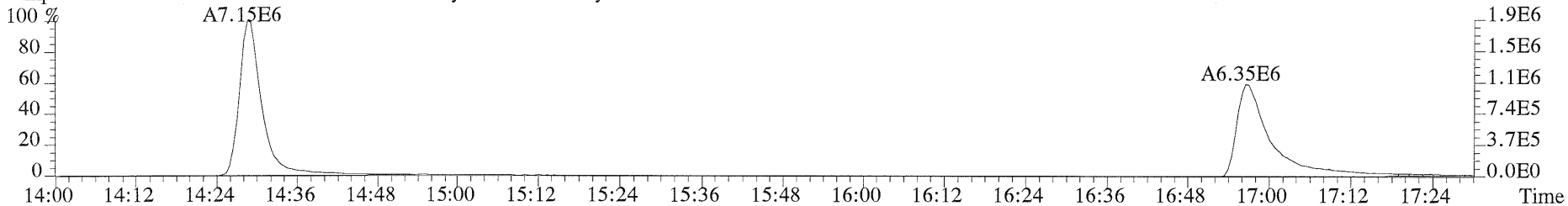




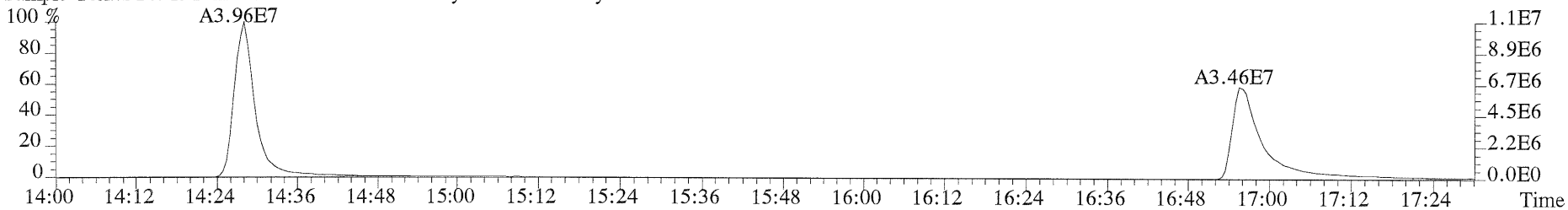
File:19SEP16Z #1-549 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



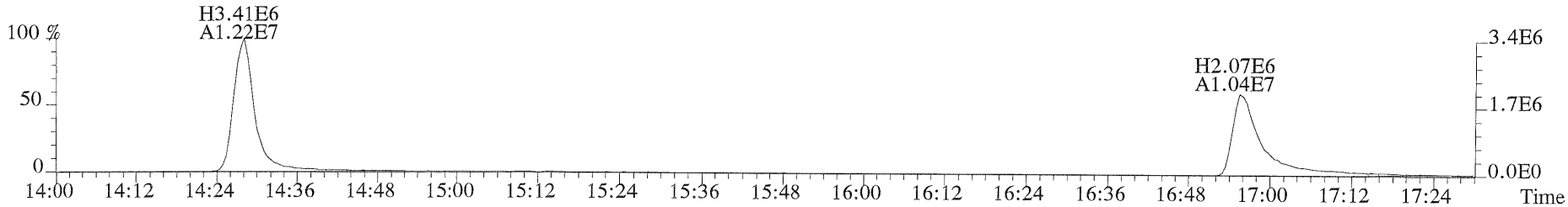
File:19SEP16Z #1-549 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



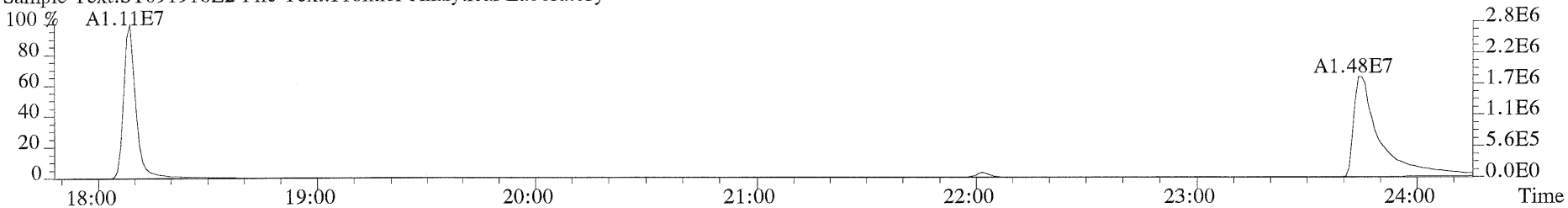
File:19SEP16Z #1-549 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



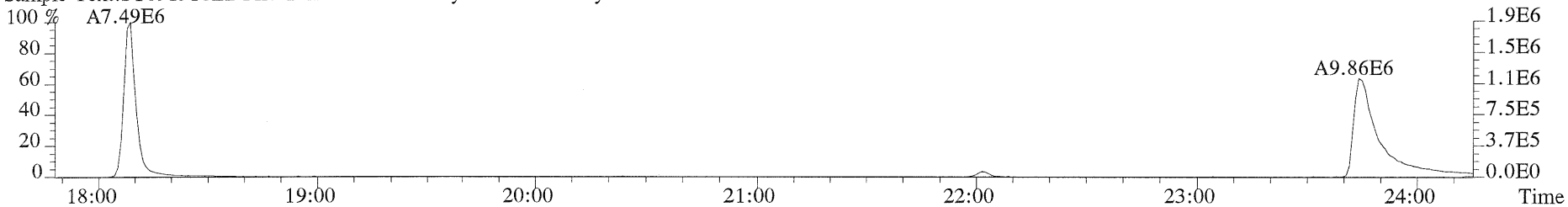
File:19SEP16Z #1-549 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



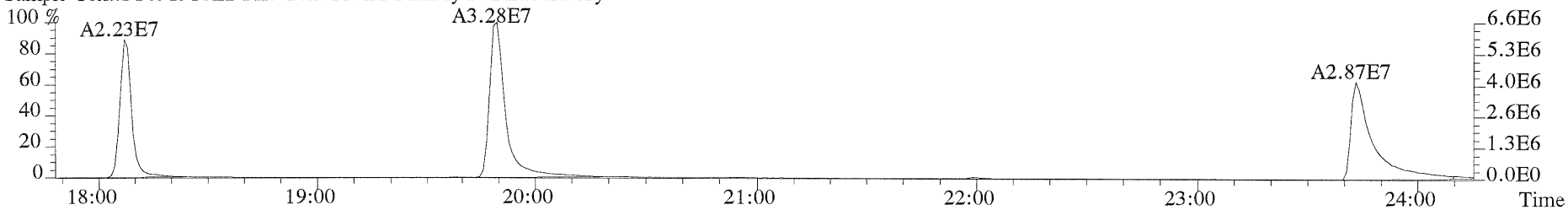
File:19SEP16Z #1-509 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



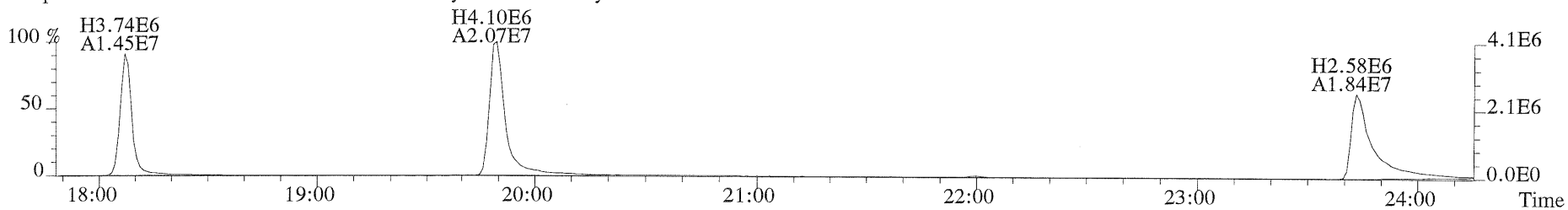
File:19SEP16Z #1-509 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



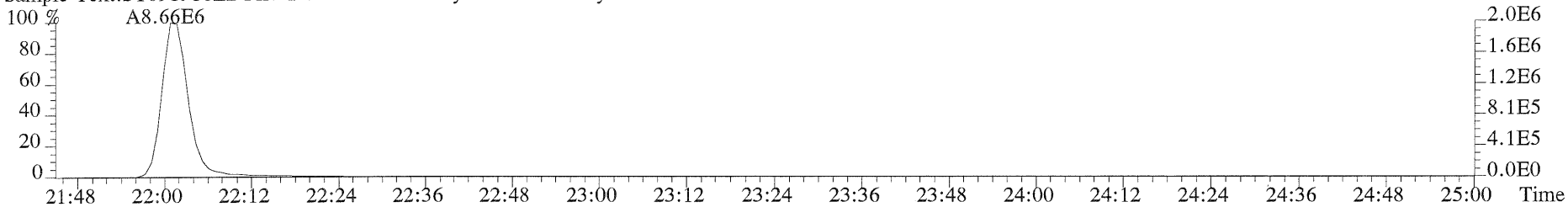
File:19SEP16Z #1-509 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



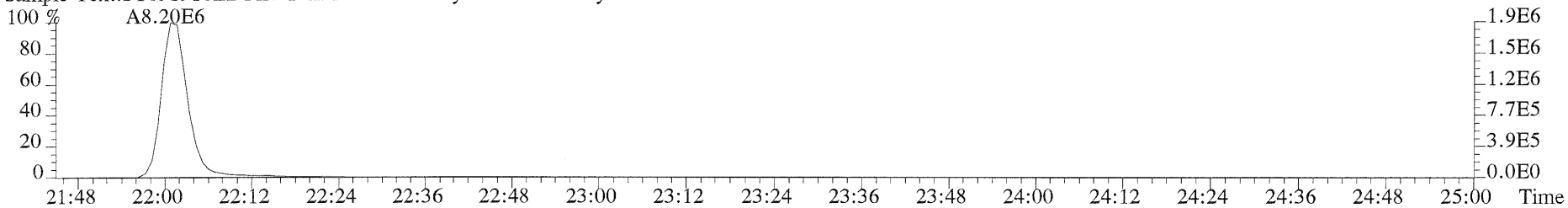
File:19SEP16Z #1-509 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



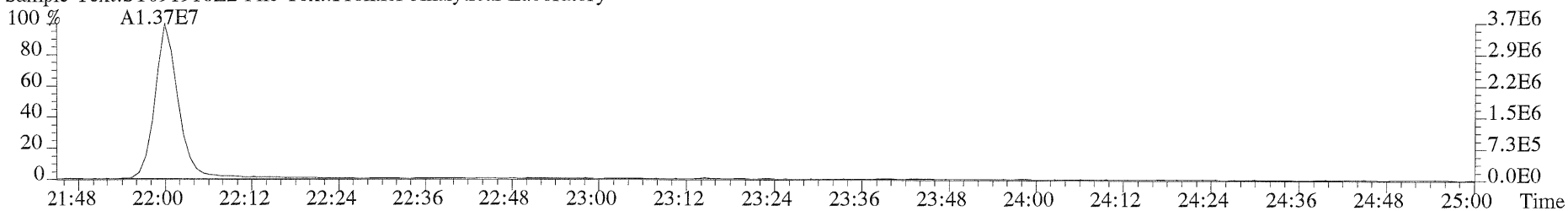
File:19SEP16Z #1-509 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



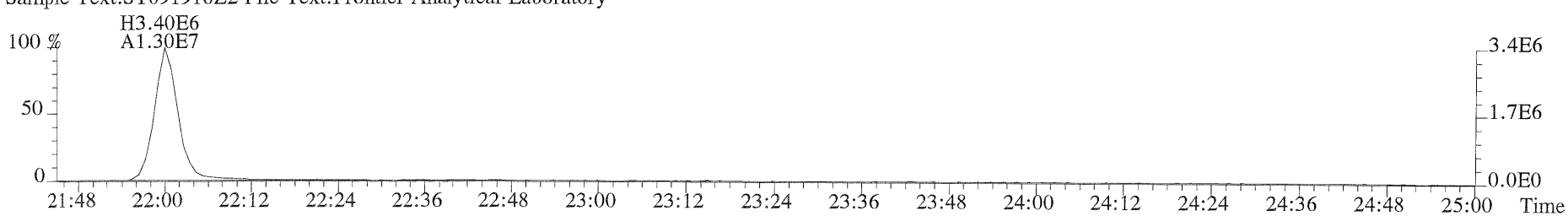
File:19SEP16Z #1-509 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



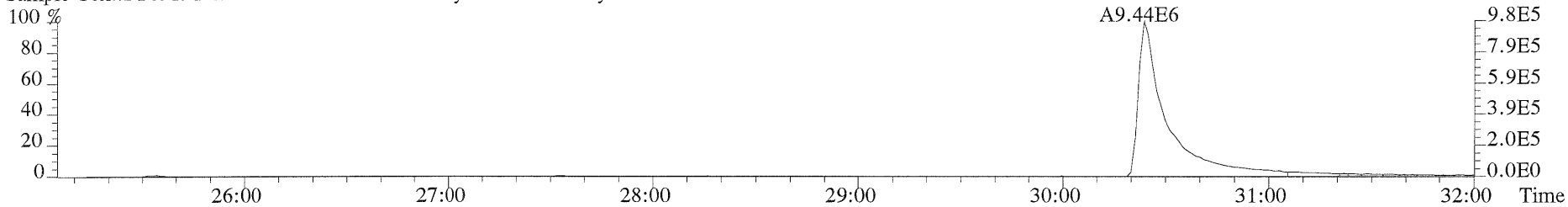
File:19SEP16Z #1-509 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



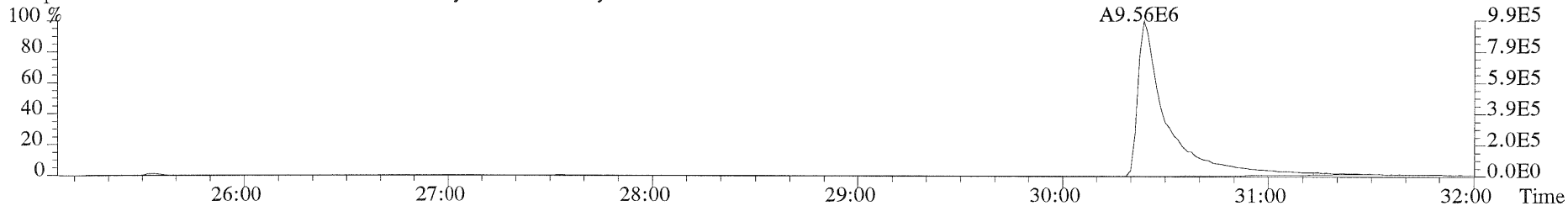
File:19SEP16Z #1-509 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



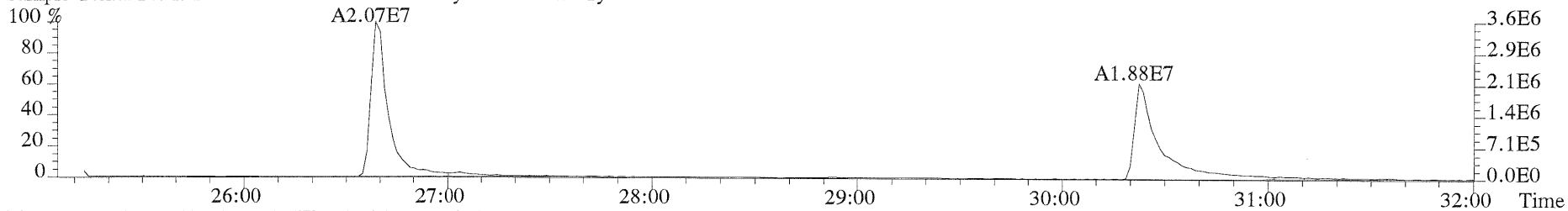
File:19SEP16Z #1-403 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



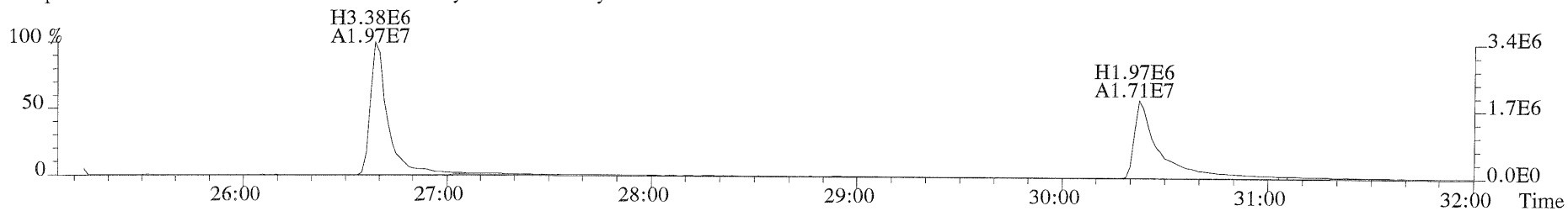
File:19SEP16Z #1-403 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



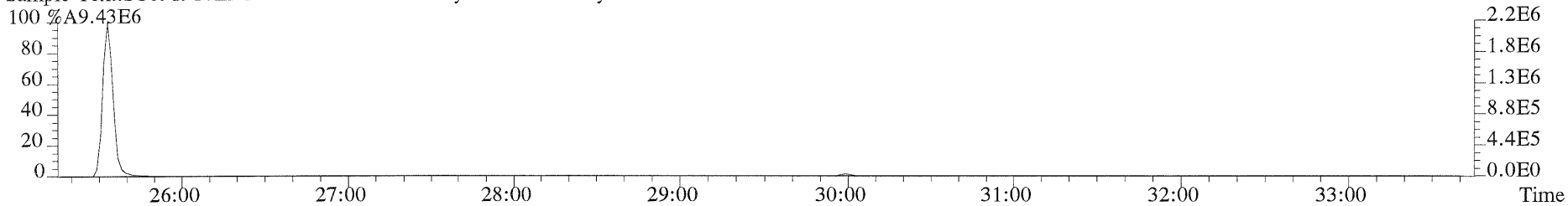
File:19SEP16Z #1-403 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



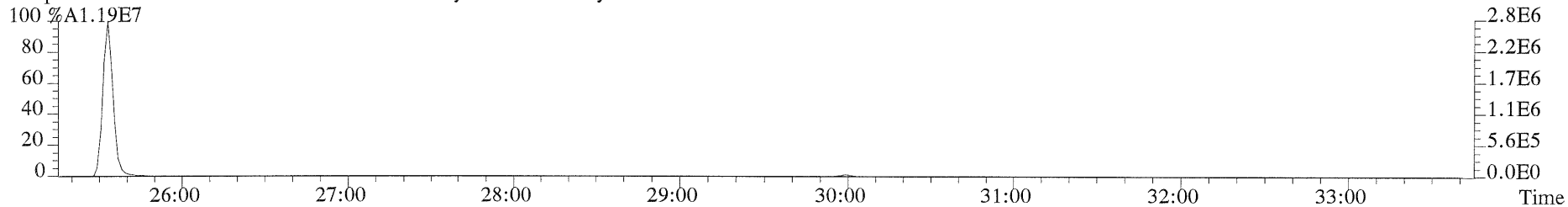
File:19SEP16Z #1-403 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



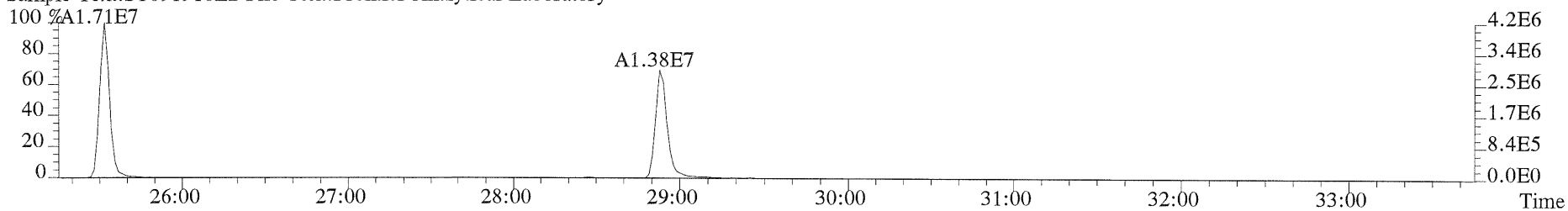
File:19SEP16Z #1-403 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



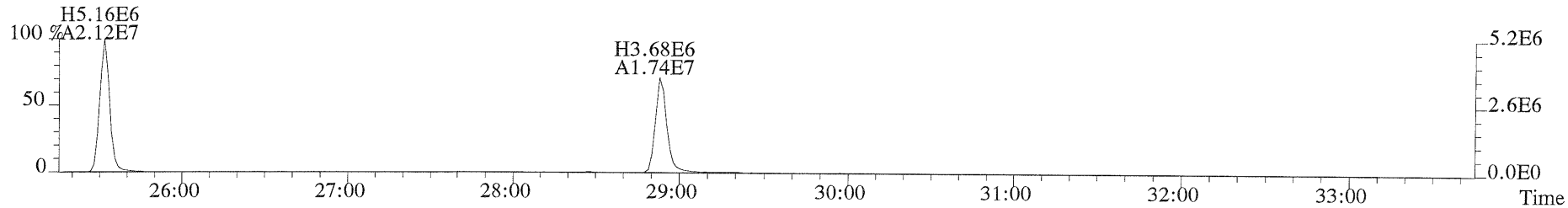
File:19SEP16Z #1-403 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



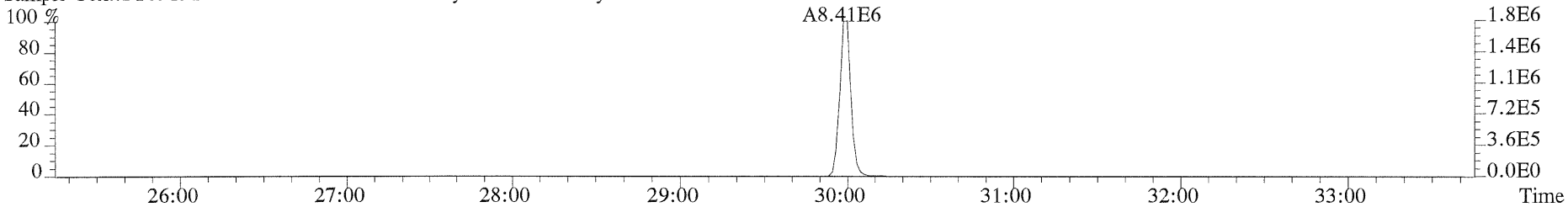
File:19SEP16Z #1-403 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



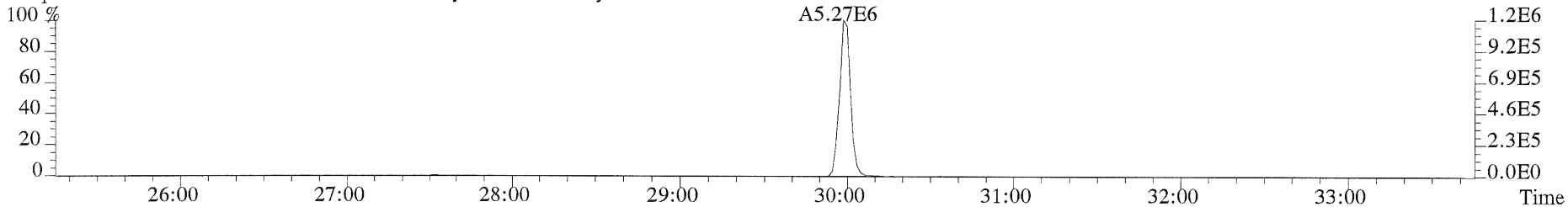
File:19SEP16Z #1-403 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



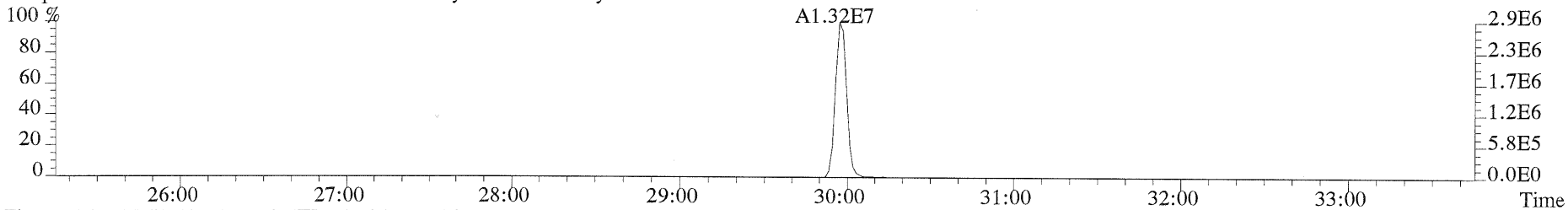
File:19SEP16Z #1-403 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



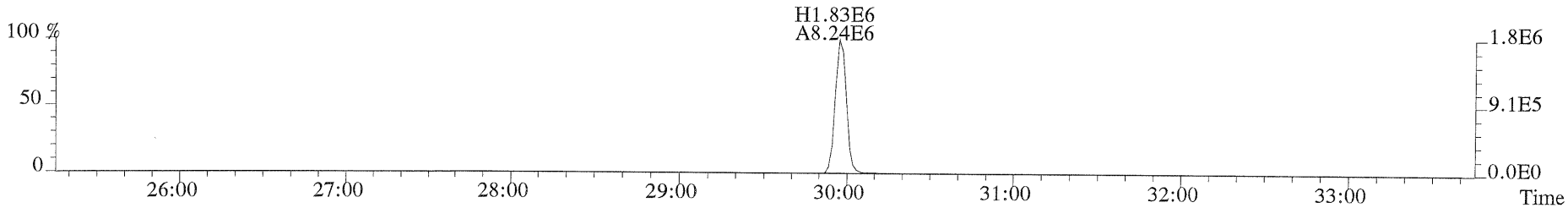
File:19SEP16Z #1-403 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-403 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



File:19SEP16Z #1-403 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



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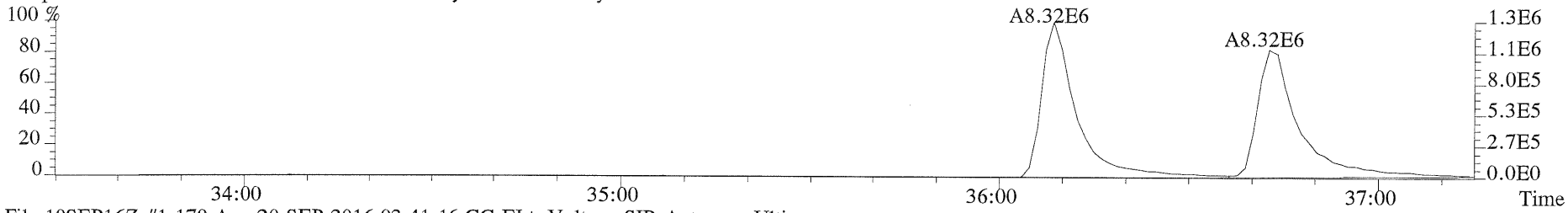
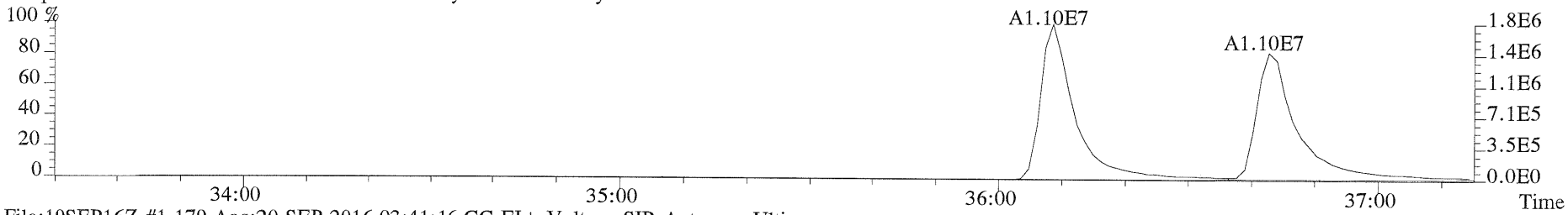
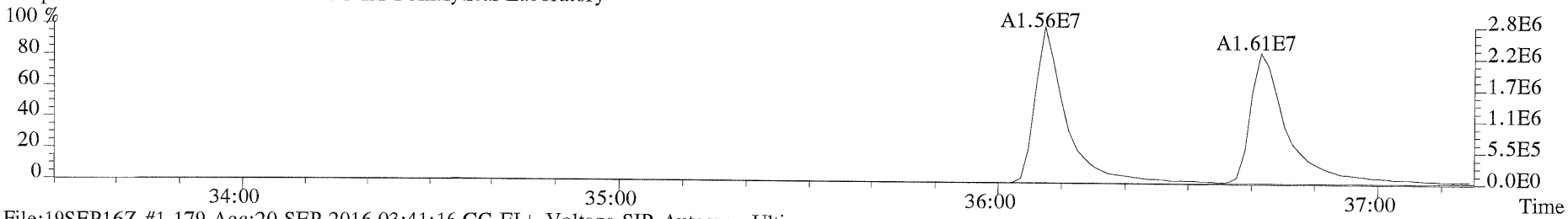
289.9224 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



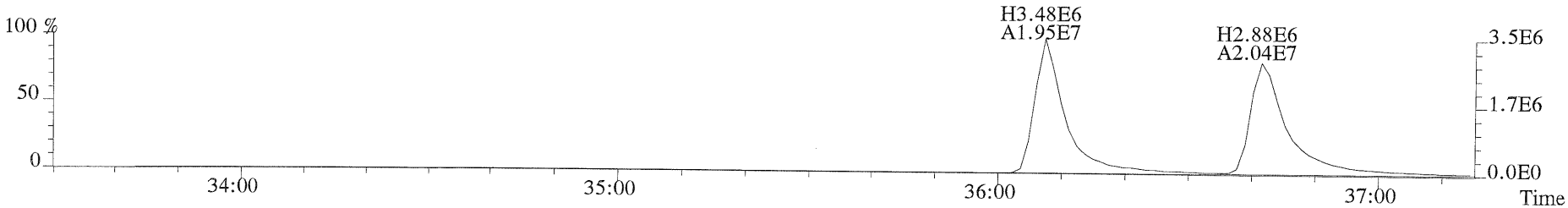
File:19SEP16Z #1-179 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



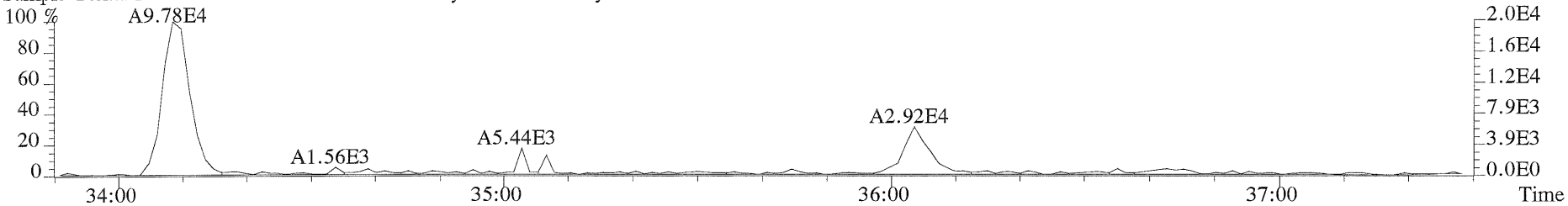
File:19SEP16Z #1-179 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



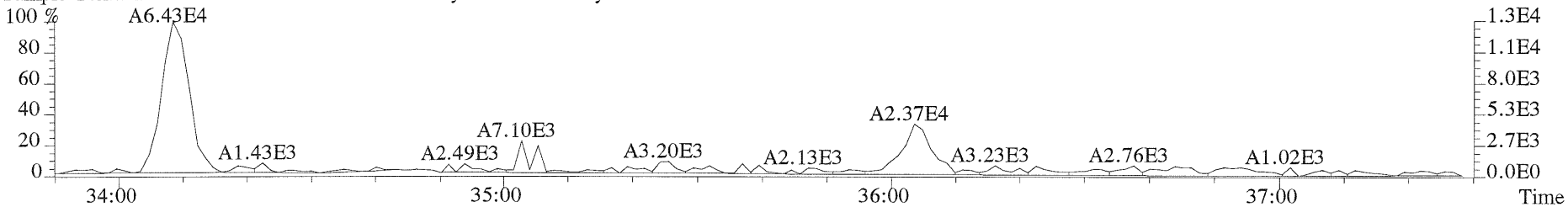
File:19SEP16Z #1-179 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



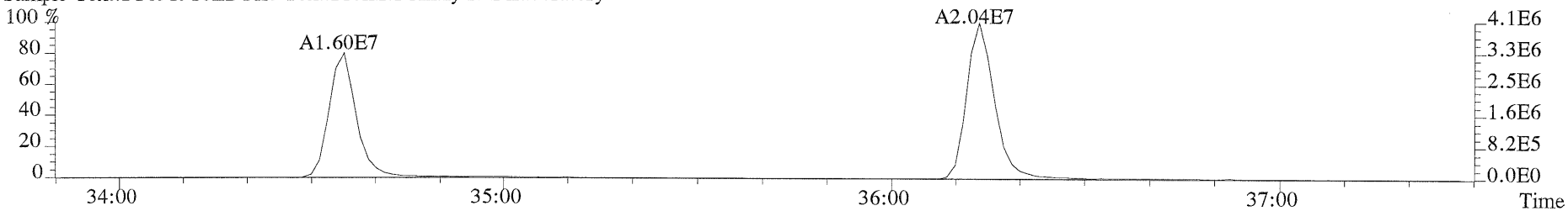
File:19SEP16Z #1-179 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



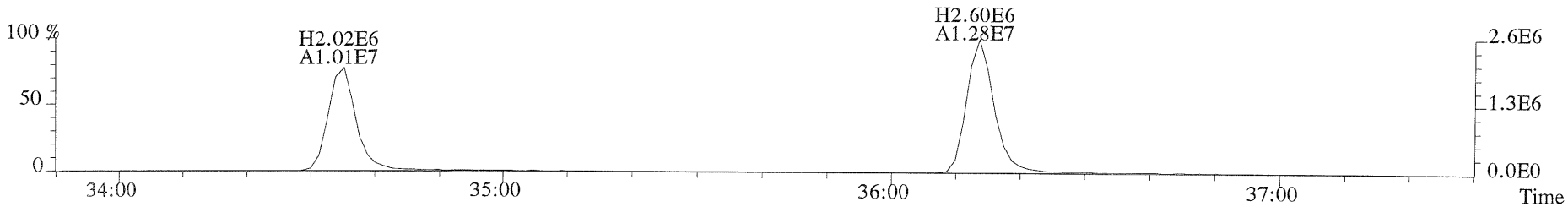
File:19SEP16Z #1-179 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



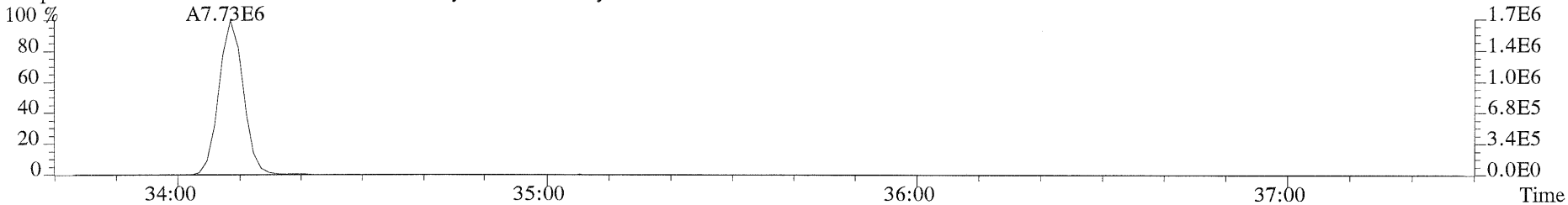
File:19SEP16Z #1-179 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



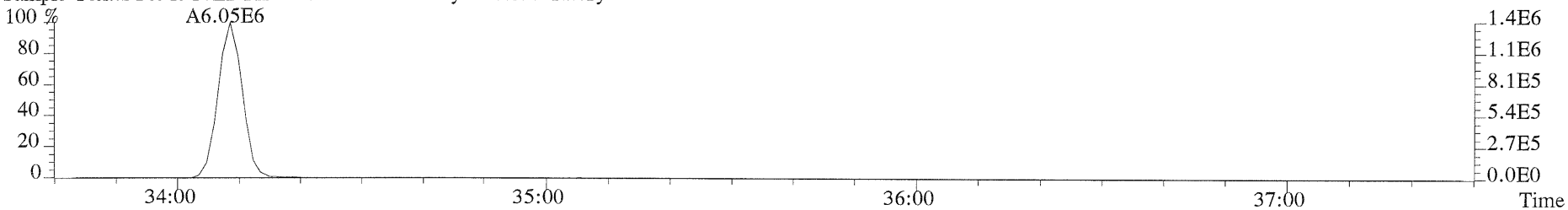
File:19SEP16Z #1-179 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



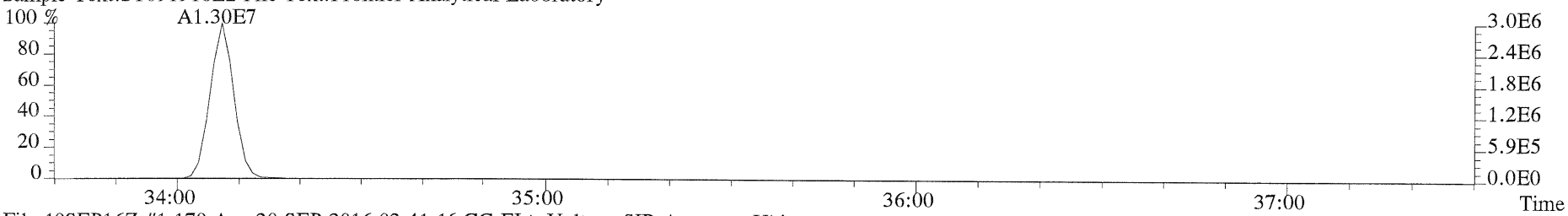
File:19SEP16Z #1-179 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



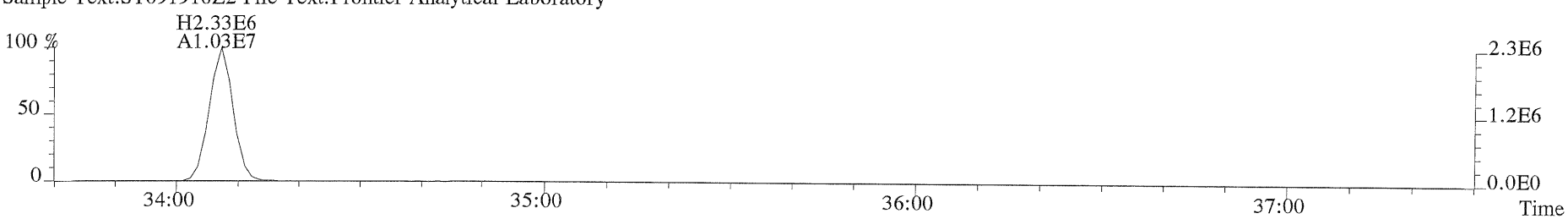
File:19SEP16Z #1-179 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



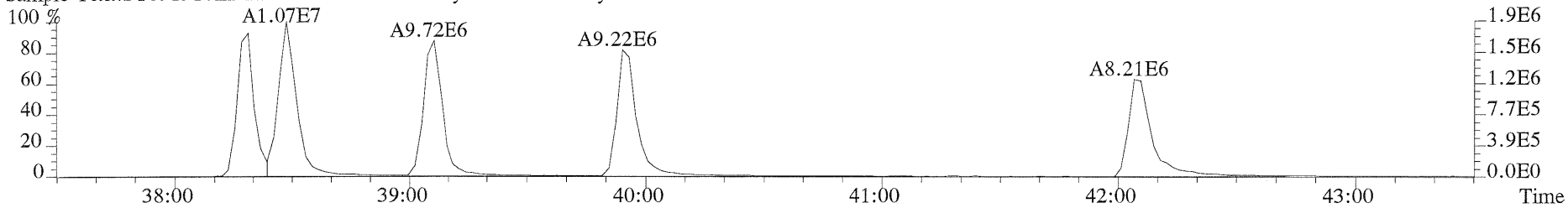
File:19SEP16Z #1-179 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



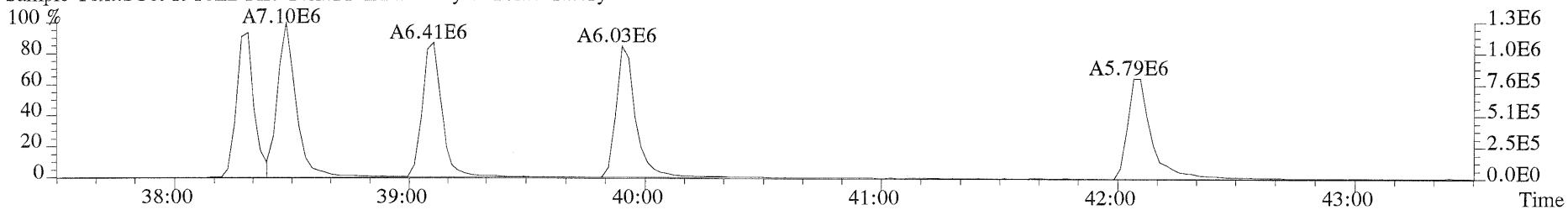
File:19SEP16Z #1-179 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



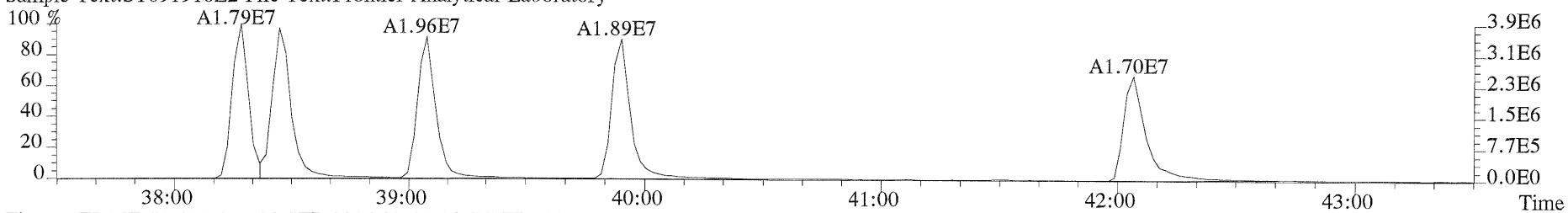
File:19SEP16Z #1-411 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



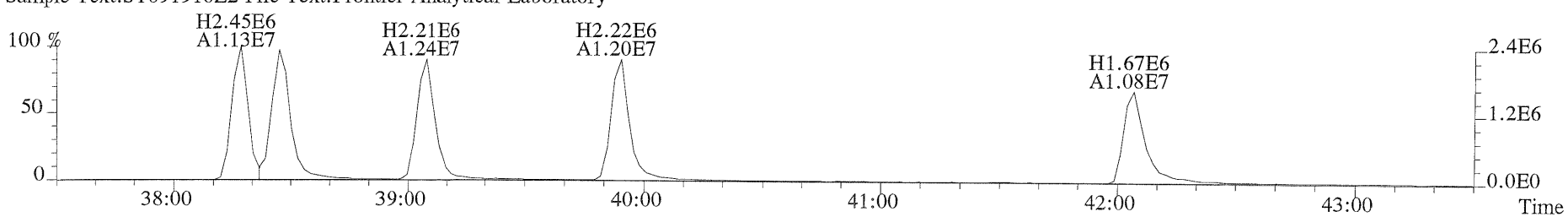
File:19SEP16Z #1-411 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



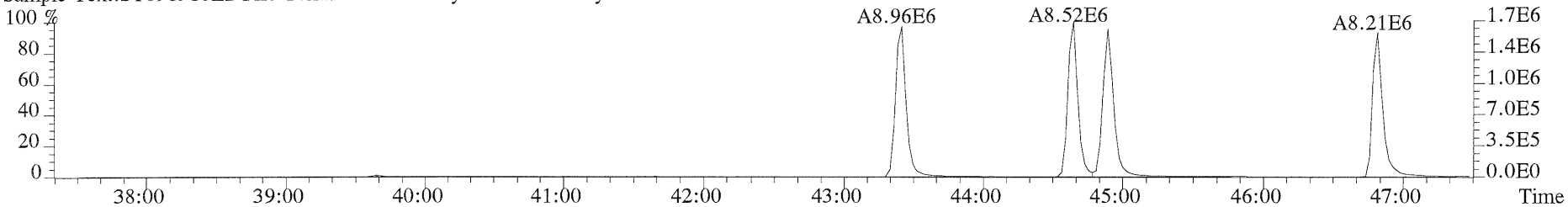
File:19SEP16Z #1-411 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



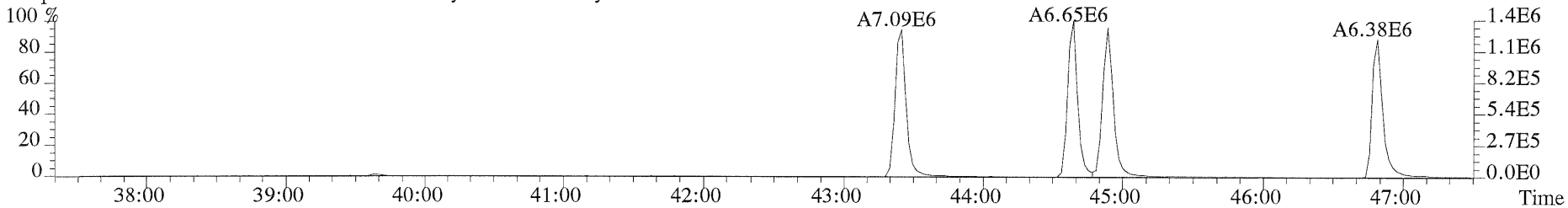
File:19SEP16Z #1-411 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



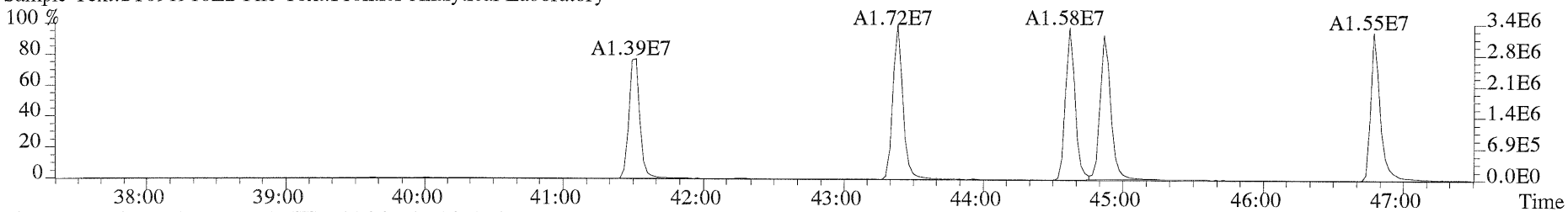
File:19SEP16Z #1-411 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



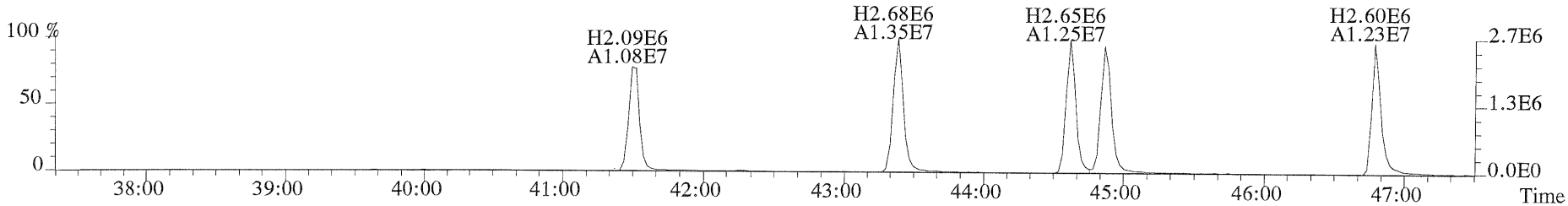
File:19SEP16Z #1-411 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



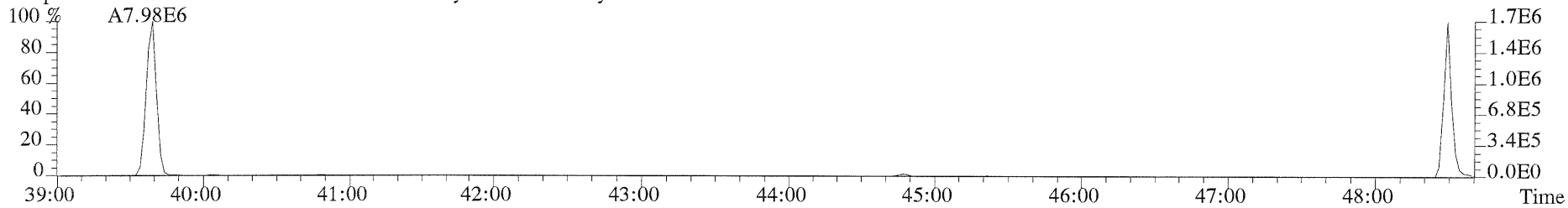
File:19SEP16Z #1-411 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



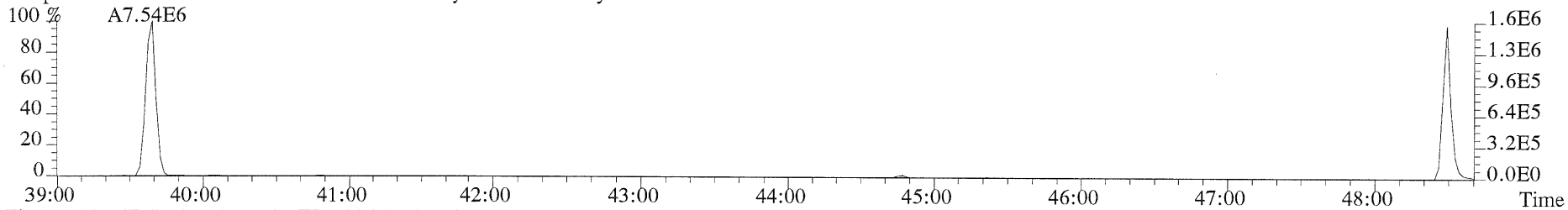
File:19SEP16Z #1-411 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



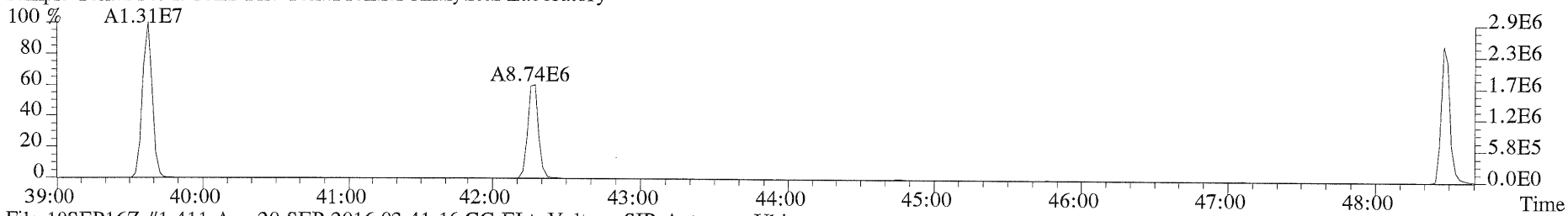
File:19SEP16Z #1-411 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



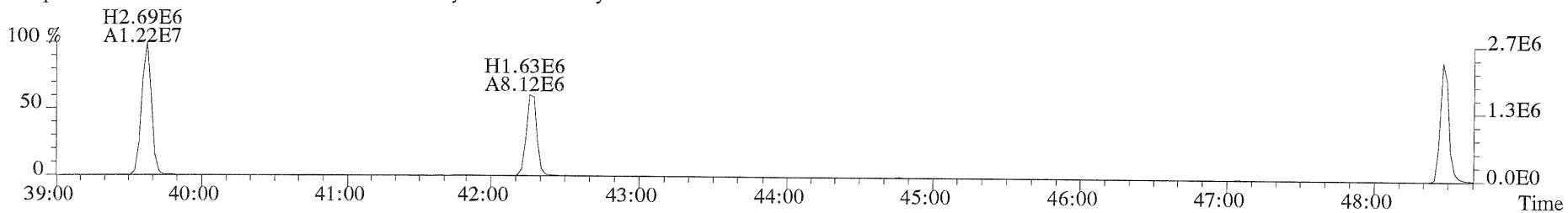
File:19SEP16Z #1-411 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



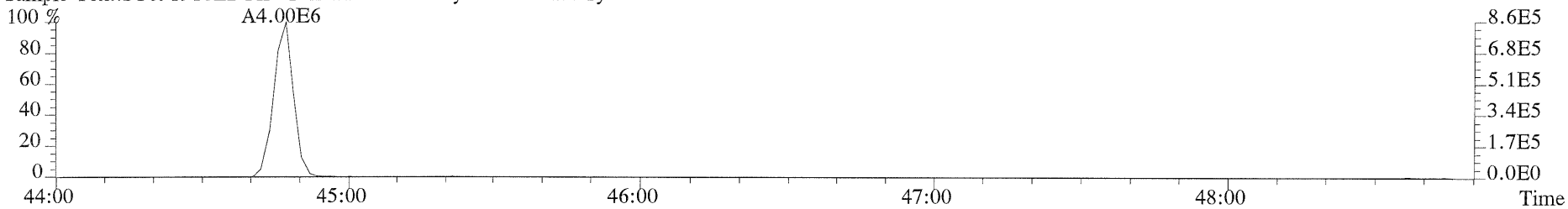
File:19SEP16Z #1-411 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



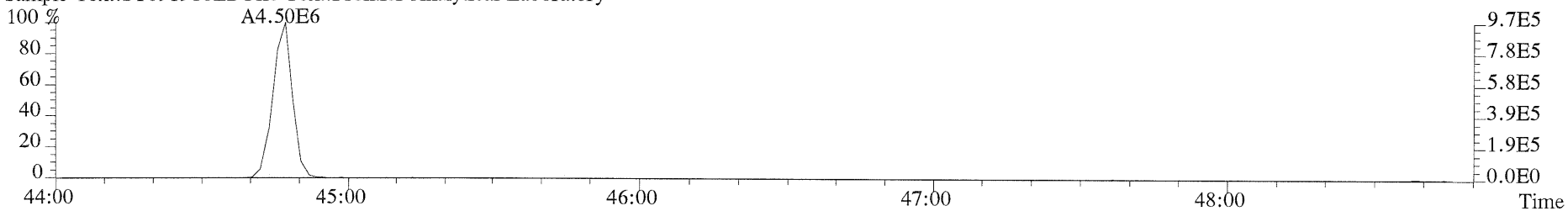
File:19SEP16Z #1-411 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



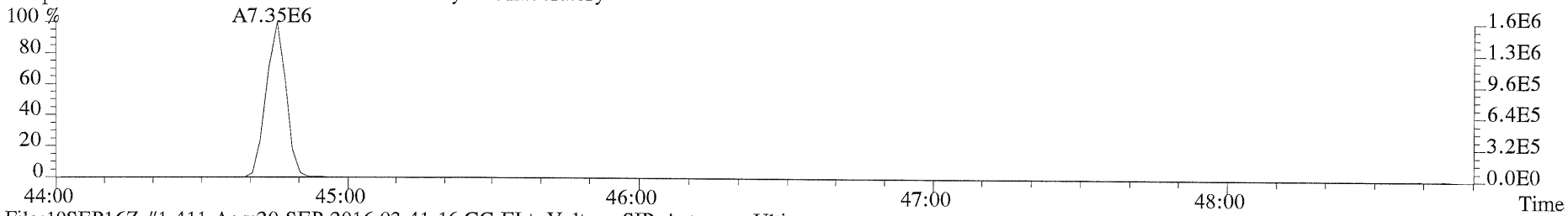
File:19SEP16Z #1-411 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



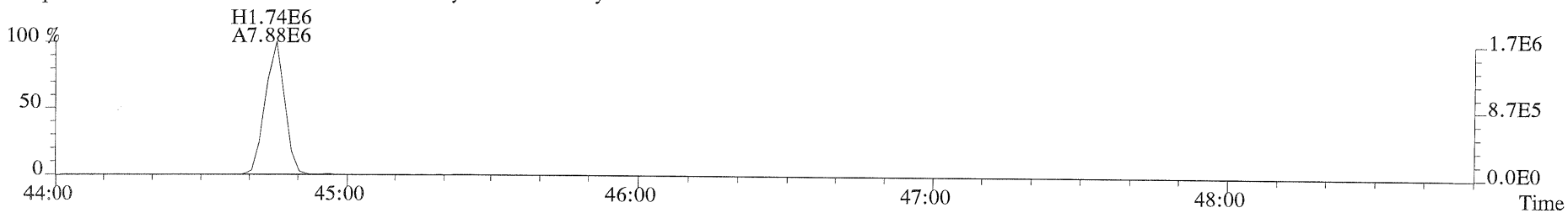
File:19SEP16Z #1-411 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



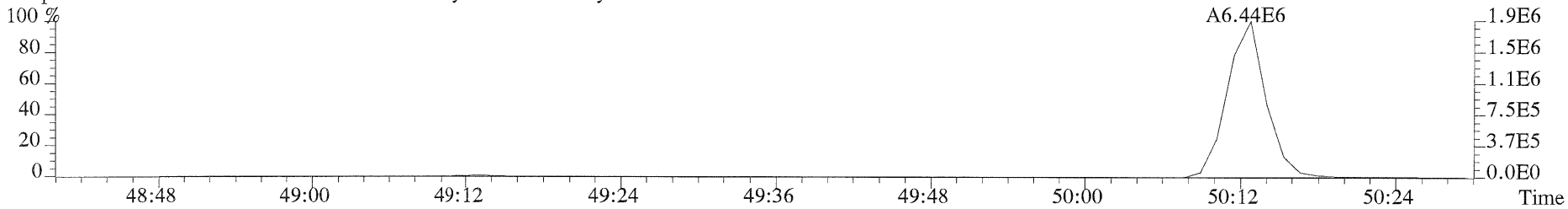
File:19SEP16Z #1-411 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



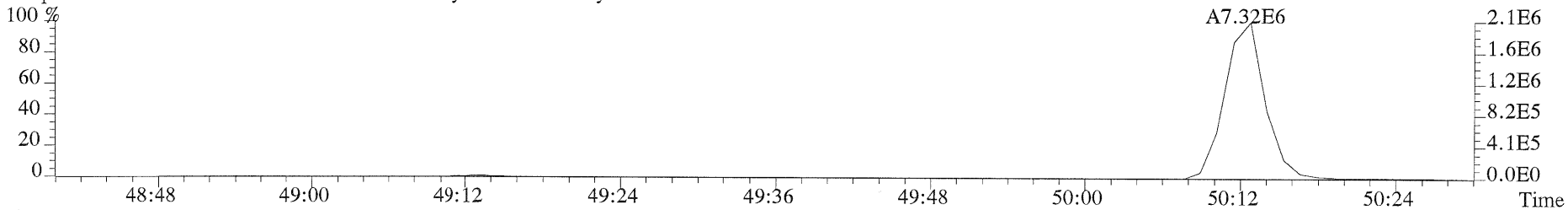
File:19SEP16Z #1-411 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



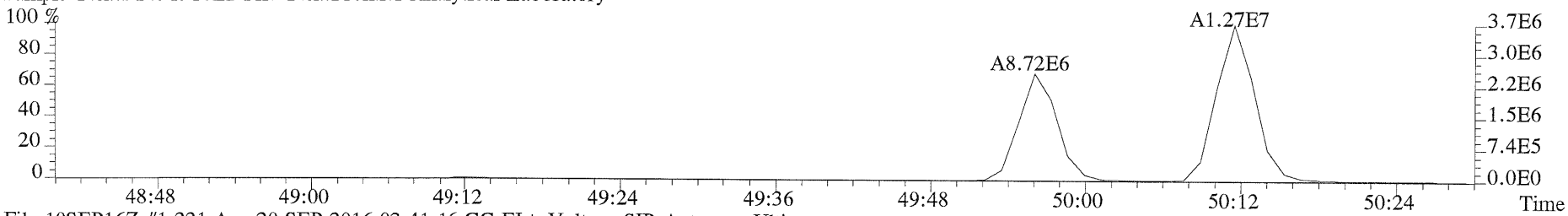
File:19SEP16Z #1-221 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



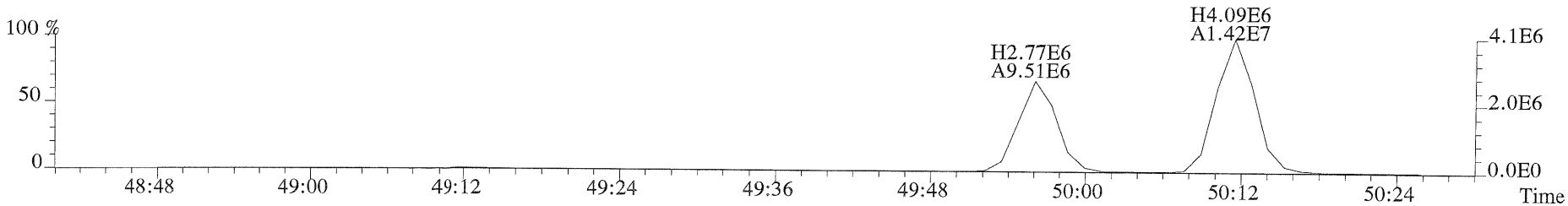
File:19SEP16Z #1-221 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



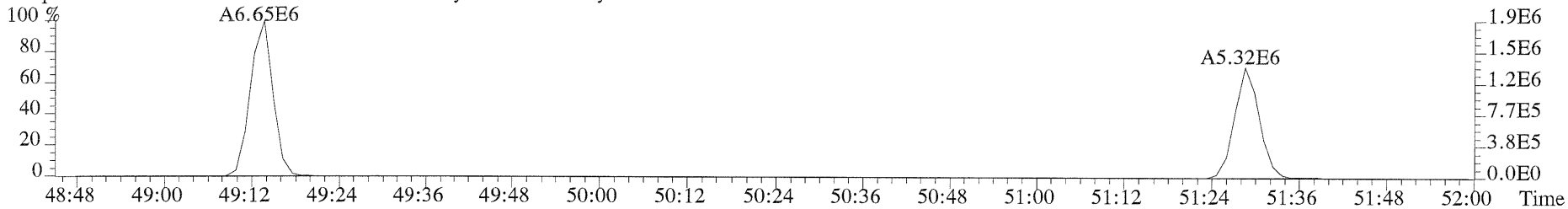
File:19SEP16Z #1-221 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



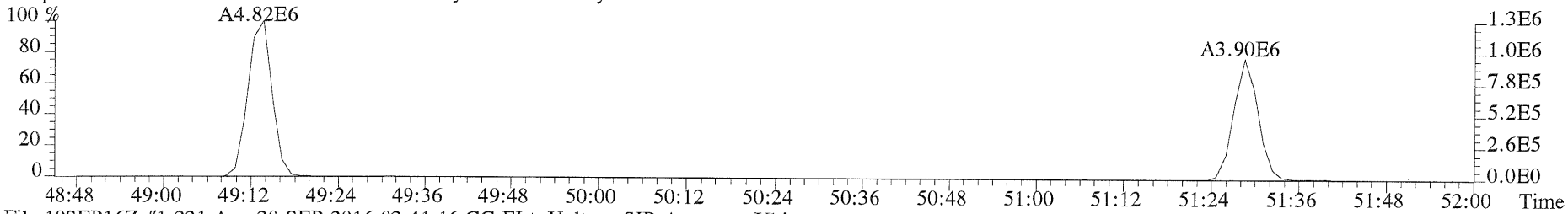
File:19SEP16Z #1-221 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



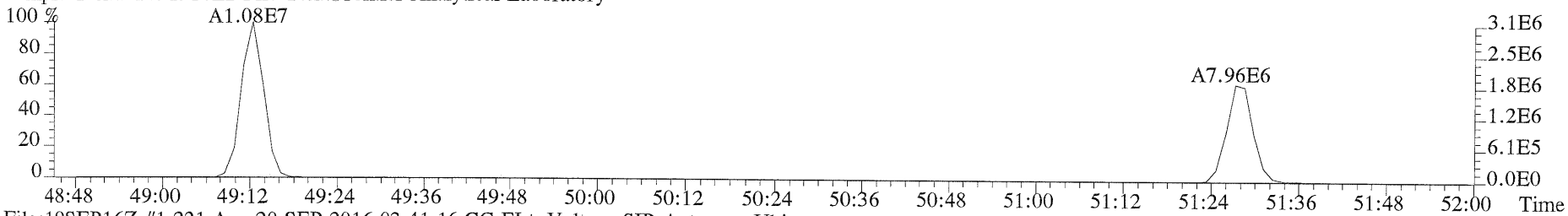
File:19SEP16Z #1-221 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



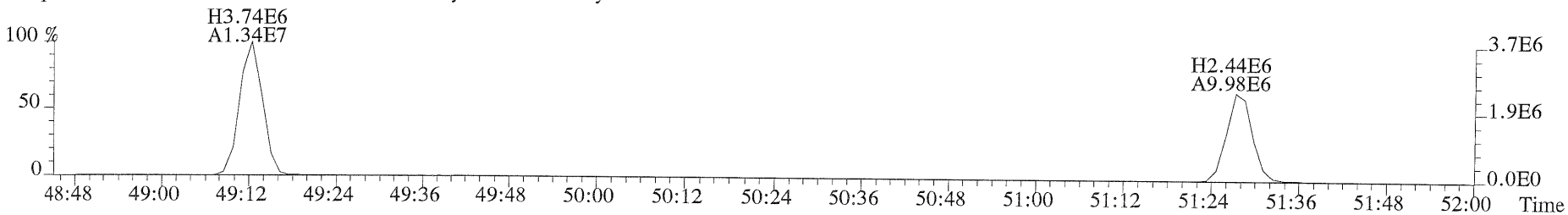
File:19SEP16Z #1-221 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



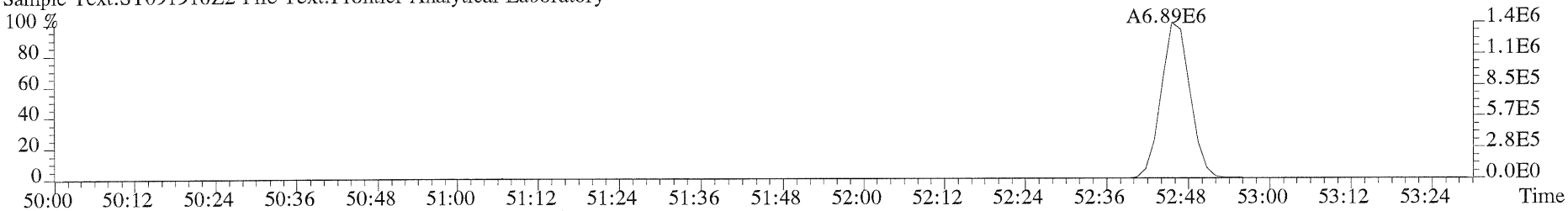
File:19SEP16Z #1-221 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



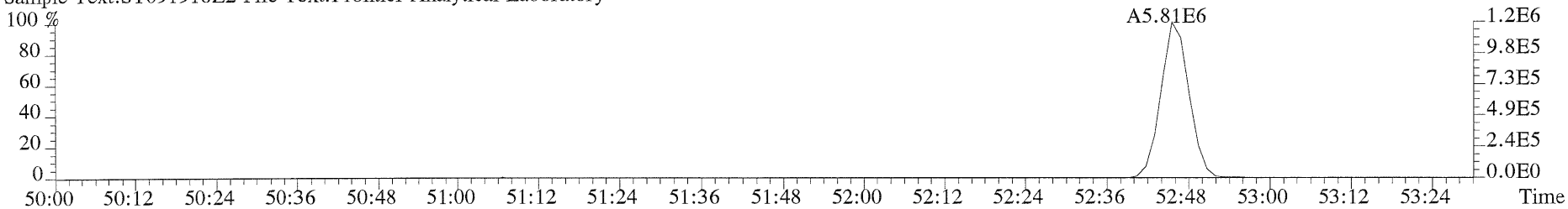
File:19SEP16Z #1-221 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



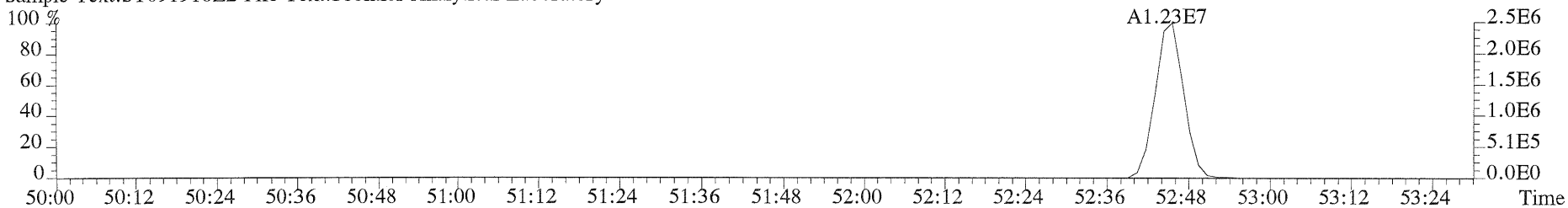
File:19SEP16Z #1-221 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



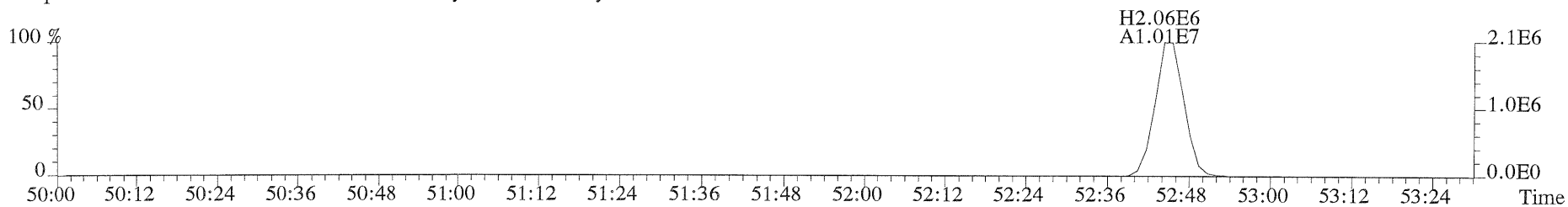
File:19SEP16Z #1-221 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory



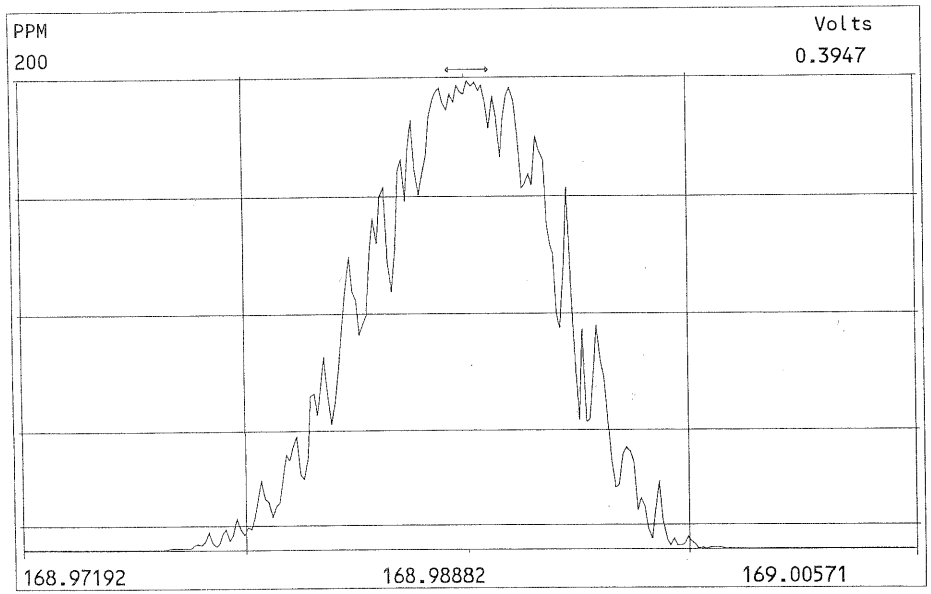
File:19SEP16Z #1-221 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory

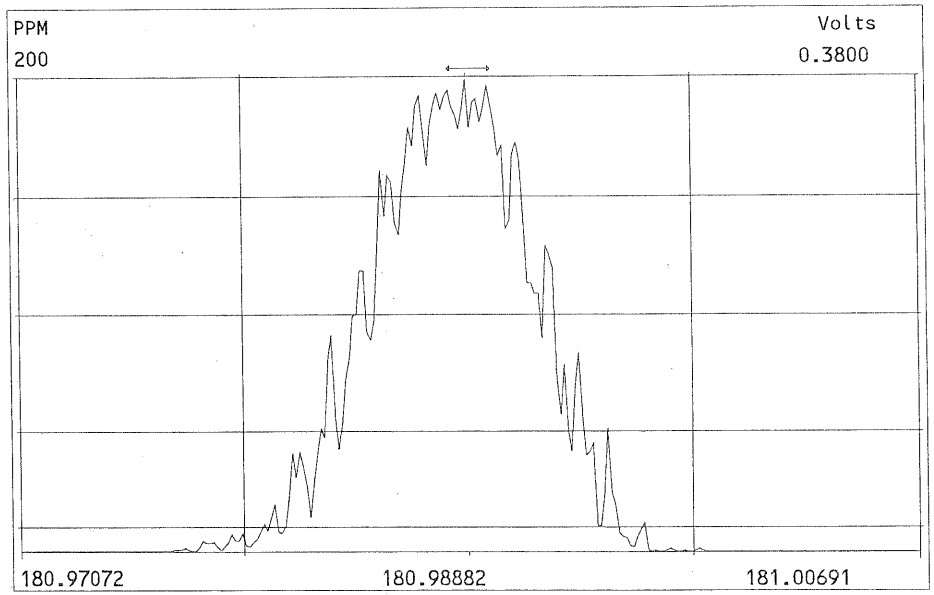


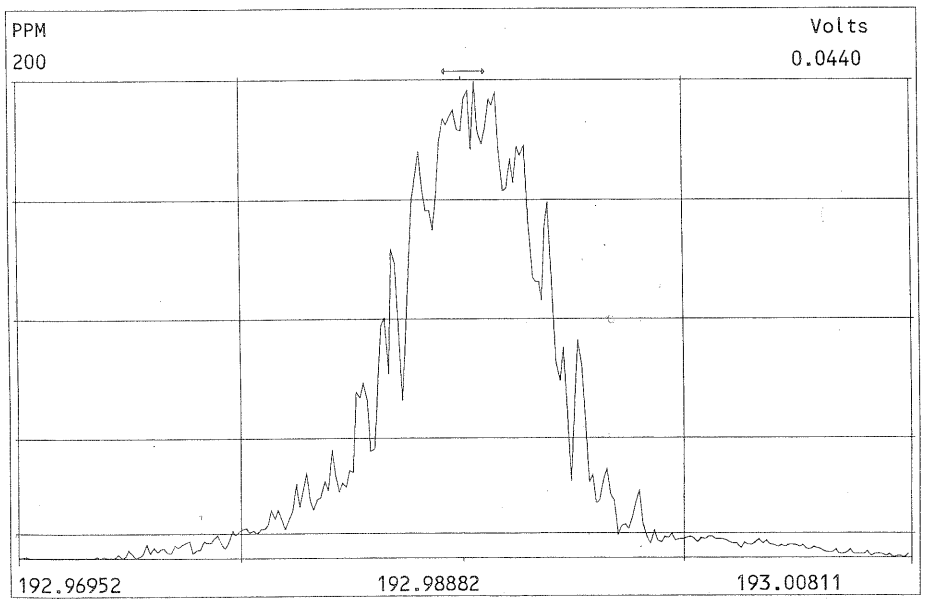
File:19SEP16Z #1-221 Acq:20-SEP-2016 03:41:16 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z2 File Text:Frontier Analytical Laboratory

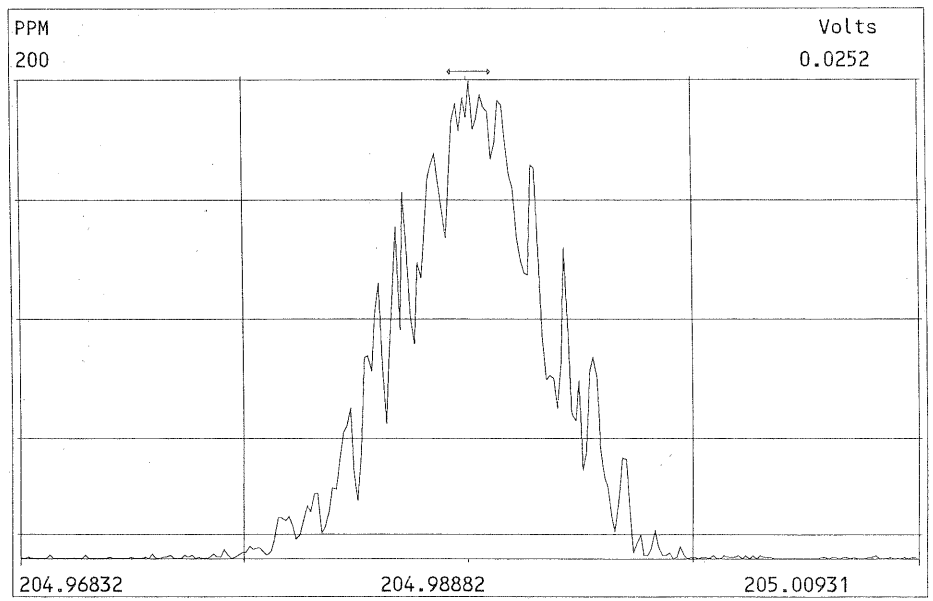


Peak Locate Examination:20-SEP-2016:09:21 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

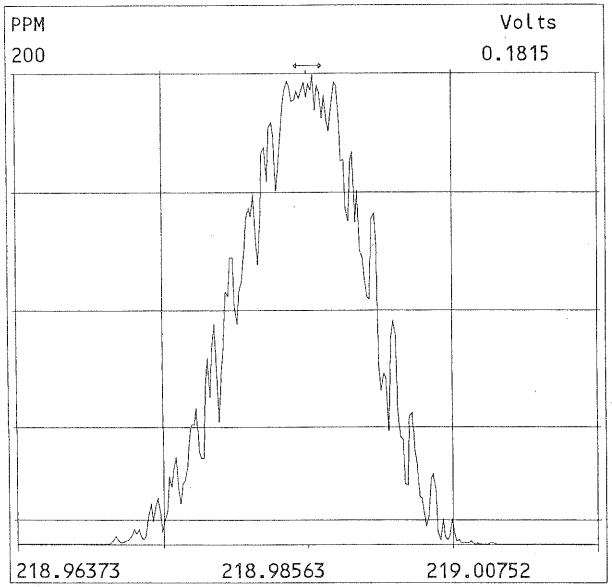


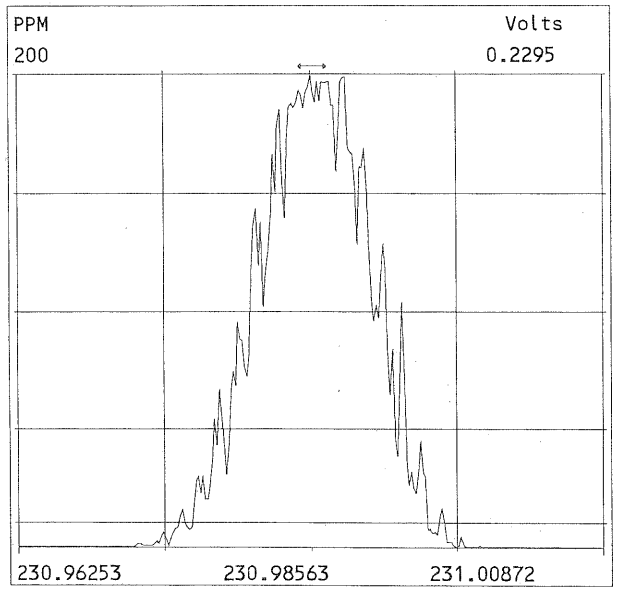


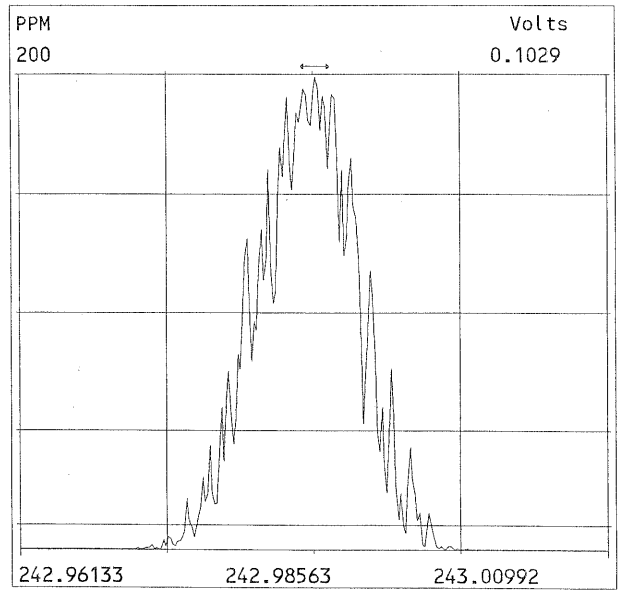


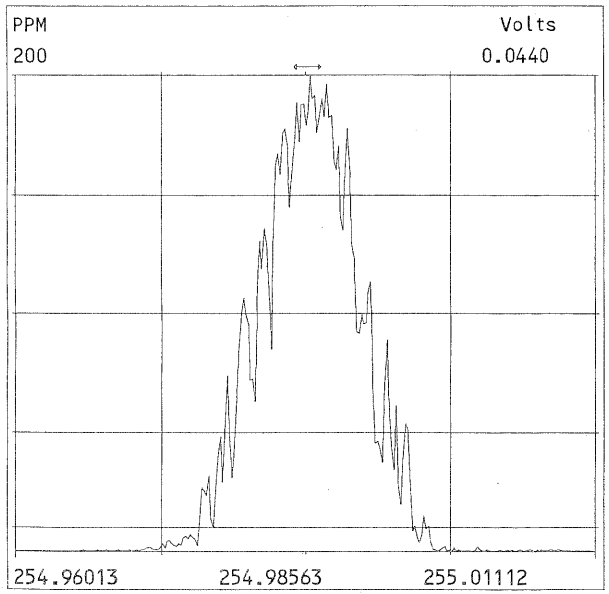


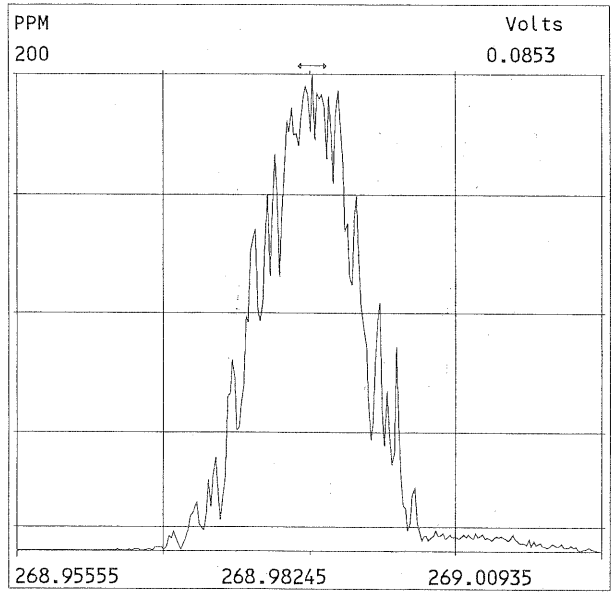
Peak Locate Examination:20-SEP-2016:09:22 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

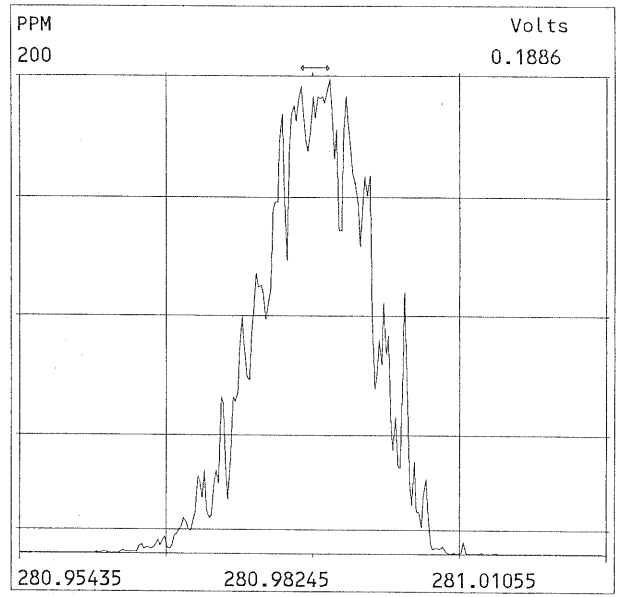




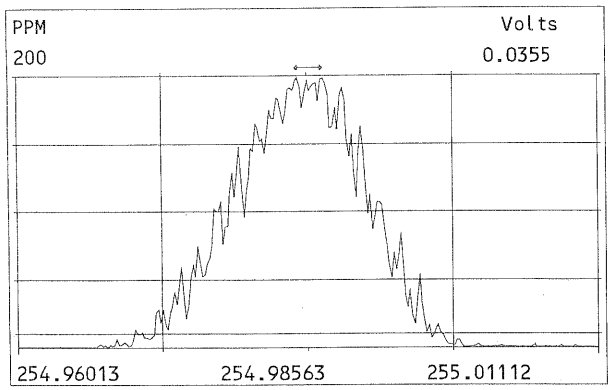


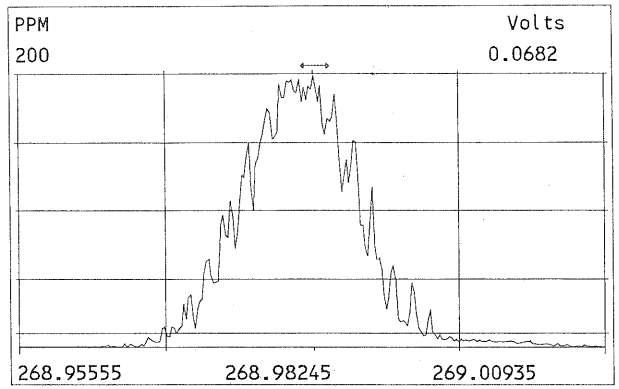


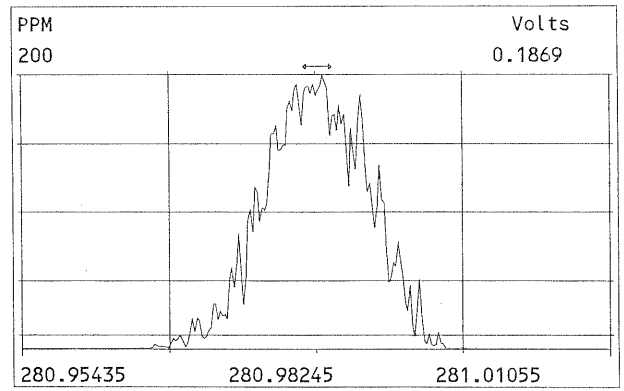


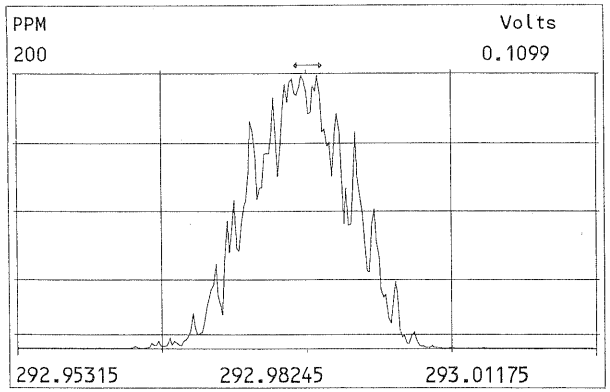


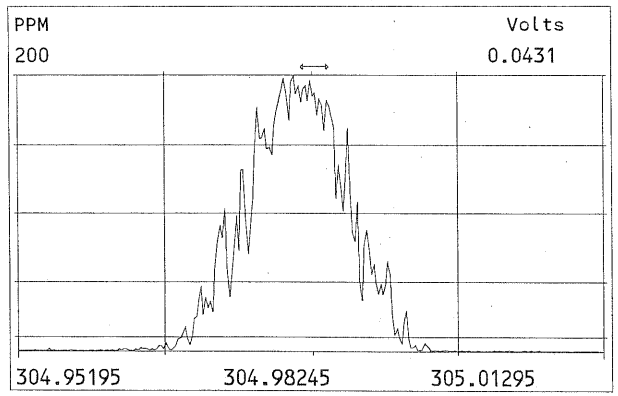
Peak Locate Examination:20-SEP-2016:09:22 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

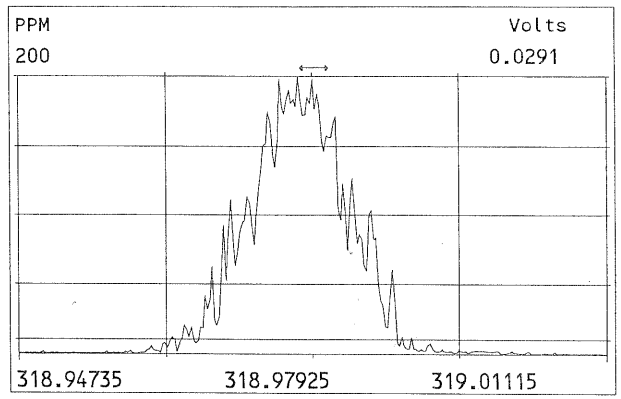


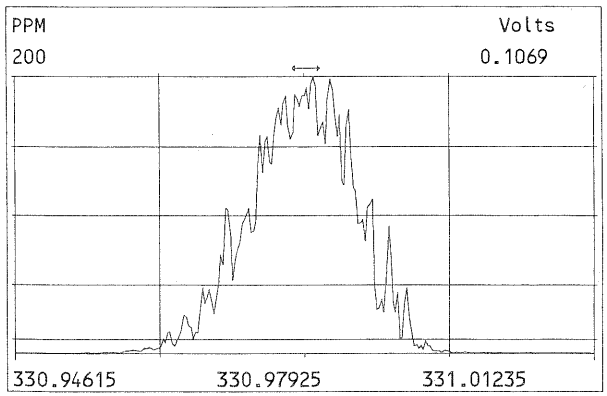


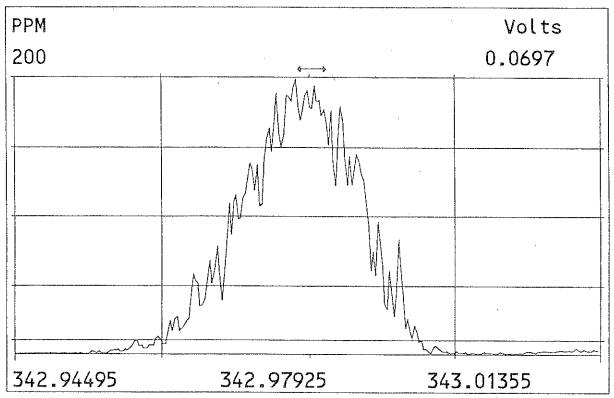




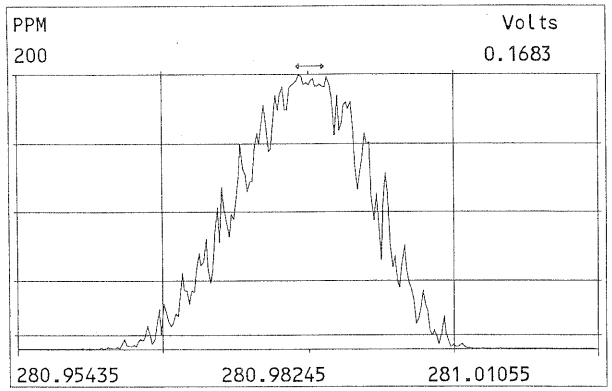


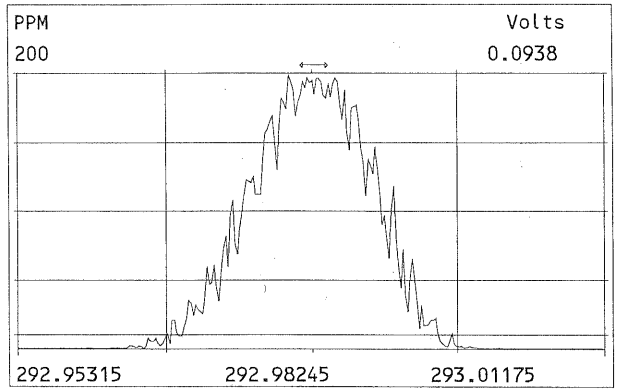


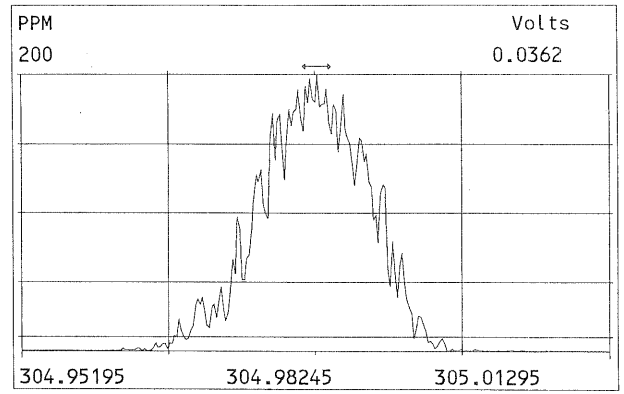


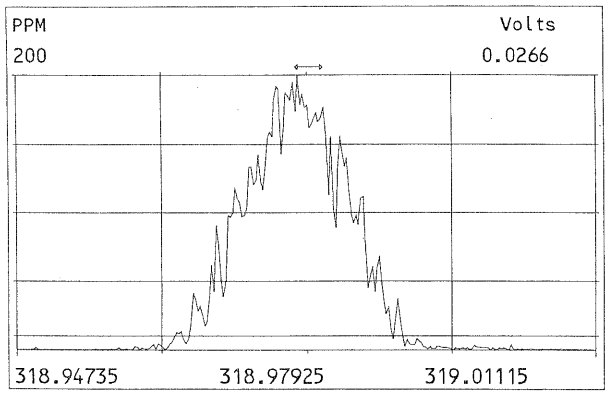


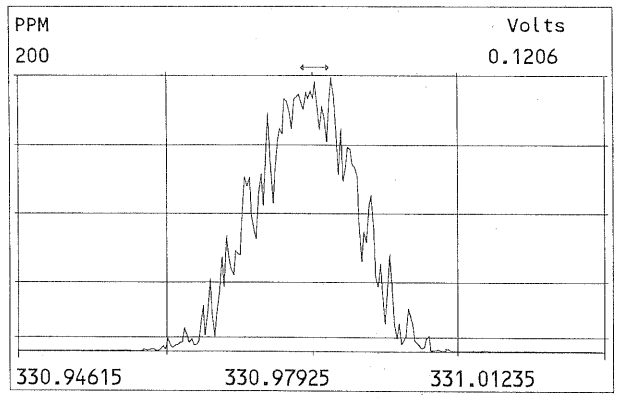
Peak Locate Examination:20-SEP-2016:09:23 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

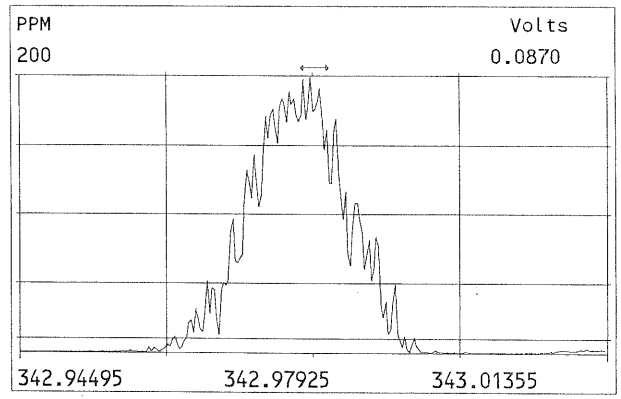


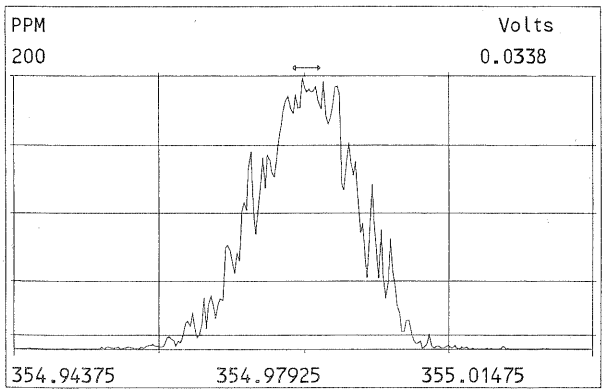


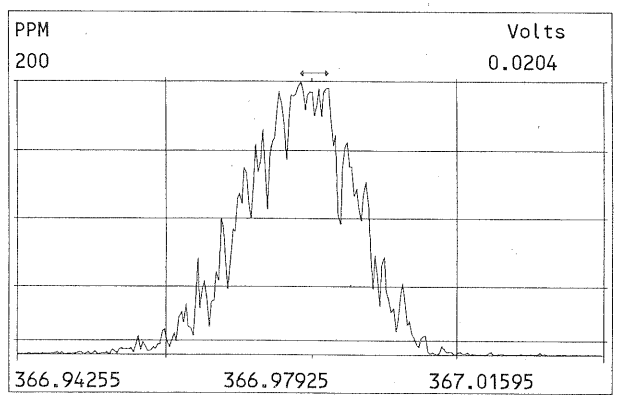


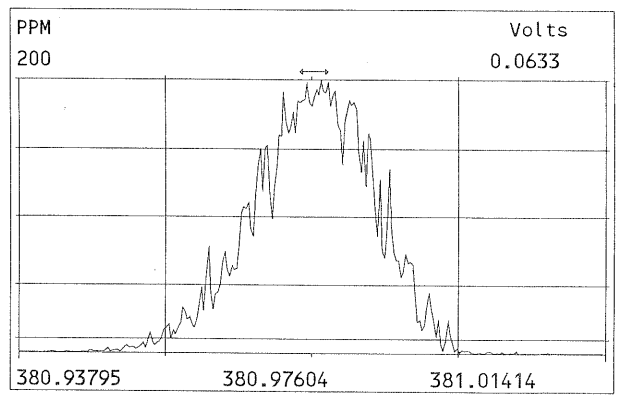




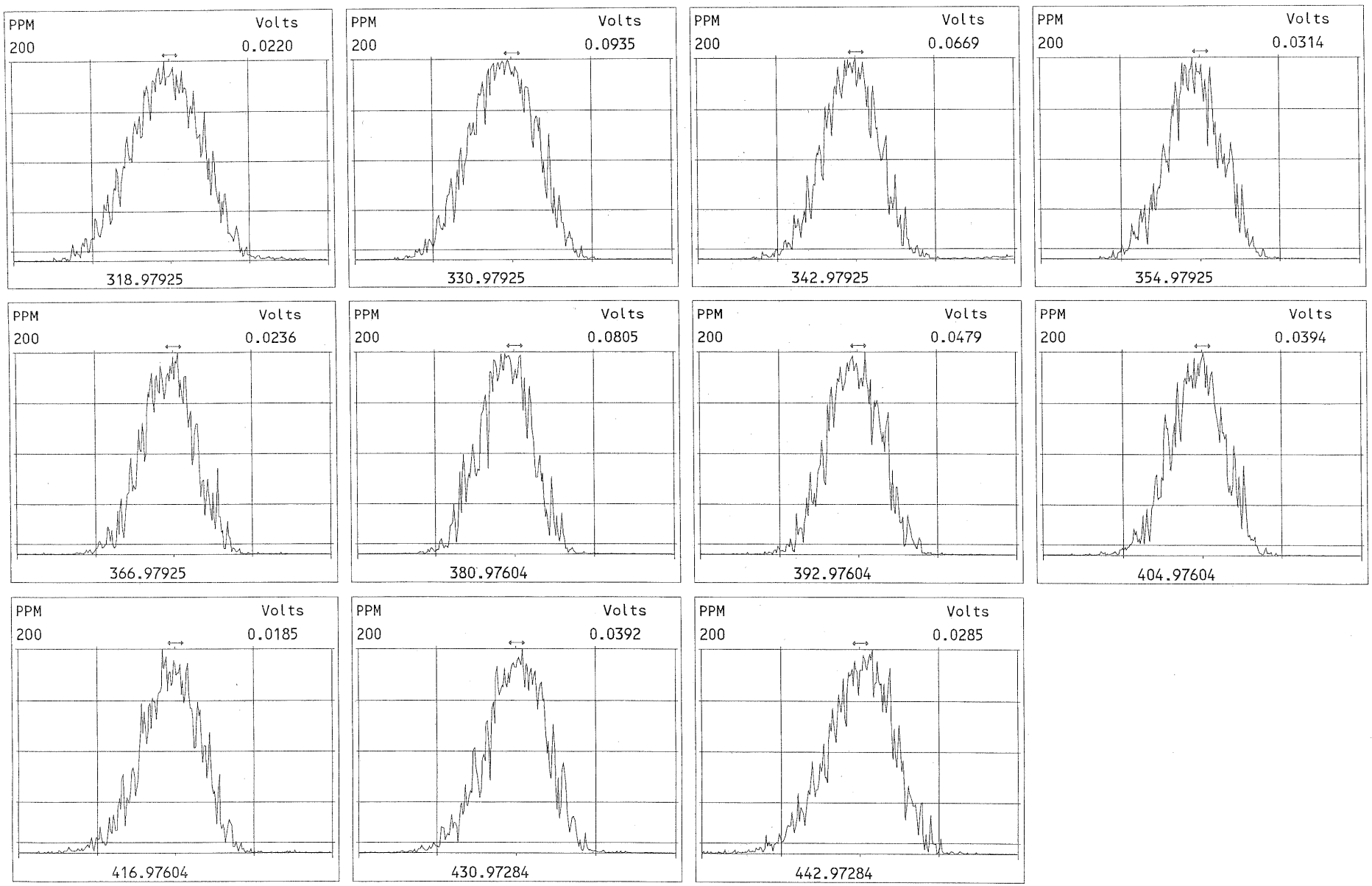




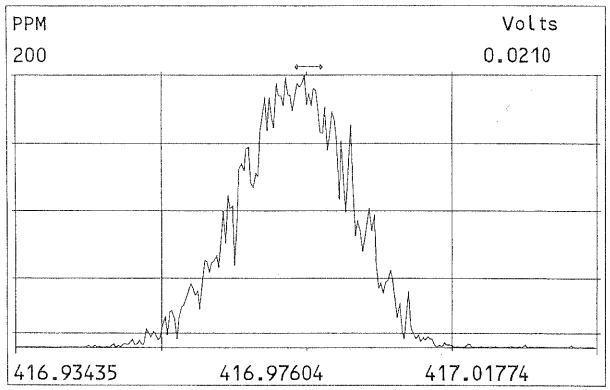


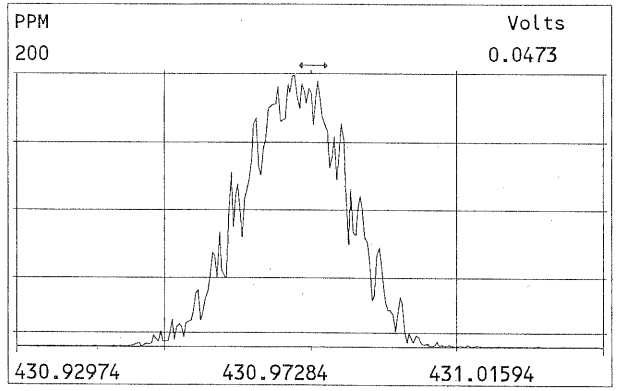


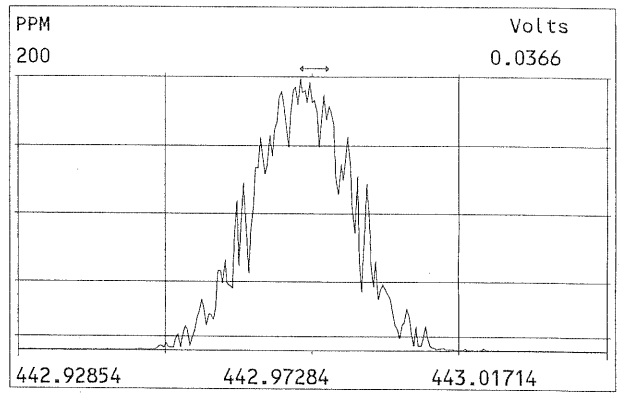
Peak Locate Examination:20-SEP-2016:09:24 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

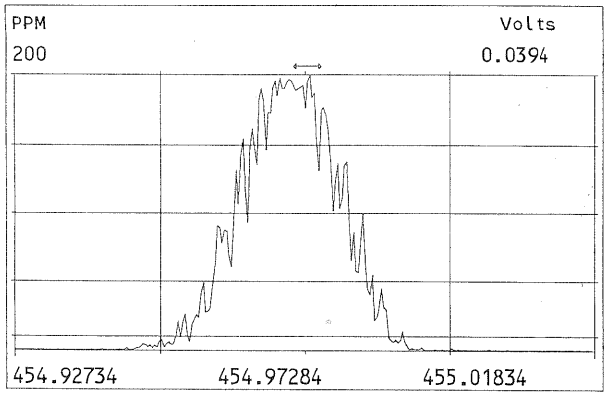


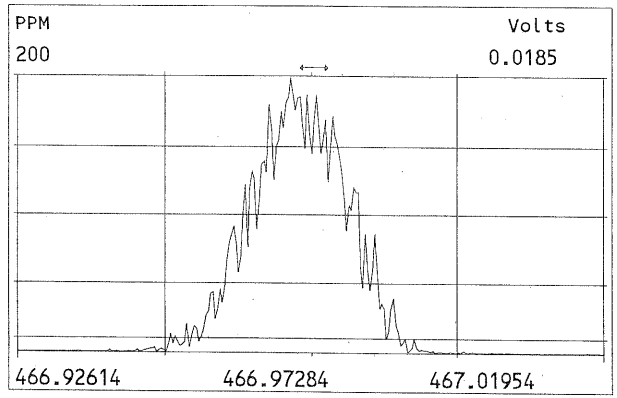
Peak Locate Examination:20-SEP-2016:09:24 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

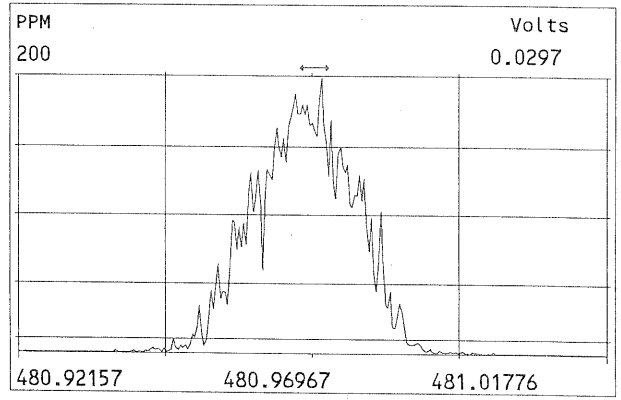


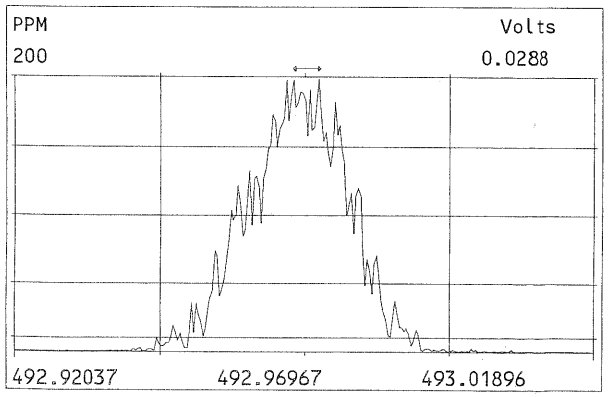


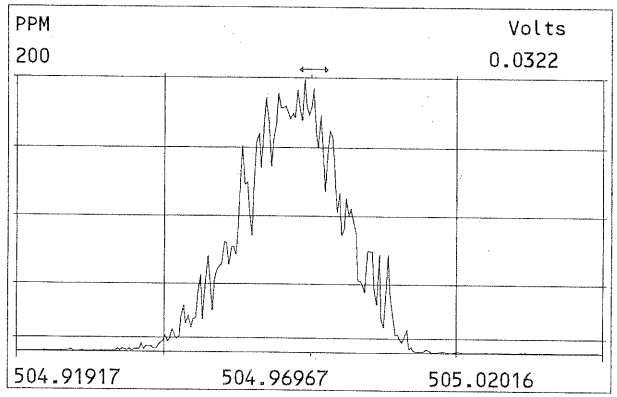


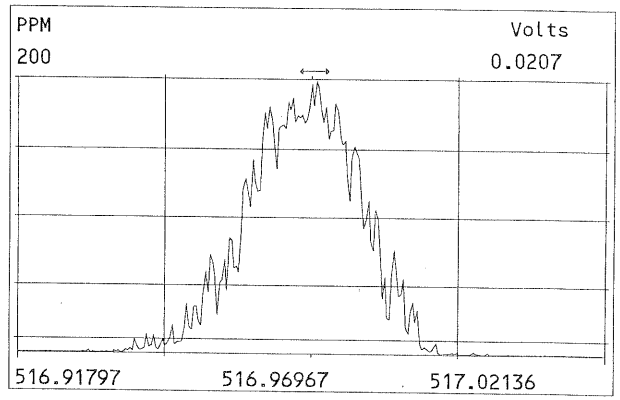












USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 19SEP16Z Sam:20 Analysis Date: 20-SEP-16 08:23:33

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.17	2.66-3.60	y	56.0	37.5 - 62.5
PCB-3	M/M+2	3.05	2.66-3.60	y	58.0	37.5 - 62.5
PCB-4	M/M+2	1.52	1.33-1.79	y	46.9	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	49.2	37.5 - 62.5
PCB-19	M/M+2	1.05	0.88-1.20	y	53.3	37.5 - 62.5
PCB-37	M/M+2	0.97	0.88-1.20	y	47.7	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	0.77	0.65-0.89	y	49.0	37.5 - 62.5
PCB-81	M/M+2	0.77	0.65-0.89	y	49.9	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	55.9	37.5 - 62.5
PCB-105	M+2/M+4	1.54	1.32-1.78	y	47.8	37.5 - 62.5
PCB-114	M+2/M+4	1.52	1.32-1.78	y	48.7	37.5 - 62.5
PCB-118	M+2/M+4	1.50	1.32-1.78	y	49.3	37.5 - 62.5
PCB-123	M+2/M+4	1.50	1.32-1.78	y	51.4	37.5 - 62.5
PCB-126	M+2/M+4	1.55	1.32-1.78	y	48.8	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	52.3	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	52.8	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	54.2	37.5 - 62.5
PCB-167	M+2/M+4	1.28	1.05-1.43	y	54.9	37.5 - 62.5
PCB-169	M+2/M+4	1.23	1.05-1.43	y	52.4	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	55.5	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	53.0	37.5 - 62.5
PCB-202	M+2/M+4	0.91	0.76-1.02	y	52.3	37.5 - 62.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	52.1	37.5 - 62.5
PCB-206	M+4/M+6	1.39	1.13-1.53	y	55.4	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	53.9	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	51.3	37.5 - 62.5

Analyst: _____ Date: 9/20/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 19SEP16Z Sam:20 Analysis Date: 20-SEP-16 08:23:33

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.26	2.66-3.60	y	77.0	50.0 - 145
13C-PCB-3	M/M+2	3.34	2.66-3.60	y	64.4	50.0 - 145
13C-PCB-4	M/M+2	1.58	1.33-1.79	y	101	50.0 - 145
13C-PCB-15	M/M+2	1.66	1.33-1.79	y	83.0	50.0 - 145
13C-PCB-19	M/M+2	1.06	0.88-1.20	y	82.1	50.0 - 145
13C-PCB-37	M/M+2	1.04	0.88-1.20	y	92.6	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	102	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	113	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	107	50.0 - 145
13C-PCB-104	M+2/M+4	1.62	1.32-1.78	y	74.4	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	113	50.0 - 145
13C-PCB-114	M+2/M+4	1.60	1.32-1.78	y	116	50.0 - 145
13C-PCB-118	M+2/M+4	1.59	1.32-1.78	y	115	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	106	50.0 - 145
13C-PCB-126	M+2/M+4	1.64	1.32-1.78	y	118	50.0 - 145
13C-PCB-155	M+2/M+4	1.26	1.05-1.43	y	80.6	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	103	50.0 - 145
13C-PCB-157	M+2/M+4	1.26	1.05-1.43	y	104	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	101	50.0 - 145
13C-PCB-169	M+2/M+4	1.28	1.05-1.43	y	110	50.0 - 145
13C-PCB-188	M+2/M+4	1.08	0.89-1.21	y	82.5	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	85.5	50.0 - 145
13C-PCB-202	M+2/M+4	0.93	0.76-1.02	y	70.4	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	97.3	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	84.7	50.0 - 145
13C-PCB-208	M+2/M+4	0.79	0.65-0.89	y	95.5	50.0 - 145
13C-PCB-209	M+4/M+6	1.22	0.99-1.33	y	77.2	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.03	0.88-1.20	y	105	65.0 - 135
13C-PCB-111	M+2/M+4	1.62	1.32-1.78	y	103	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	86.9	75.0 - 125

Analyst: _____ Date: 9/20/16

FAL ID: ST091916Z3 Filename: 19SEP16Z Sam:20 Acquired: 20-SEP-16 08:23:33 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R160816B ConCal: ST091916Z2 EndCal: ST091916Z3
Results: 19SEP16Z GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	2.80e+07	3.17 y	14:27	1.05	56.0		2.50	-	-	*	-
13C-PCB-1	4.76e+07	3.26 y	14:26	1.14	77.0		2.50				77.0
PCB-3	2.36e+07	3.05 y	16:55	1.05	58.0		2.50	-	-	*	-
13C-PCB-3	3.88e+07	3.34 y	16:54	1.11	64.4		2.50				64.4
PCB-4	1.97e+07	1.52 y	18:07	1.14	46.9		2.50	-	-	*	-
13C-PCB-4	3.70e+07	1.58 y	18:05	0.68	101		2.50				101
PCB-15	2.48e+07	1.56 y	23:43	1.09	49.2		2.50	-	-	*	-
13C-PCB-15	4.63e+07	1.66 y	23:41	1.02	83.0		2.50				83.0
PCB-19	1.70e+07	1.05 y	22:00	1.16	53.3		2.50	-	-	*	-
13C-PCB-19	2.75e+07	1.06 y	21:58	0.61	82.1		2.50				82.1
13C-PCB-9	5.44e+07	1.58 y	19:47	-	39.8		2.50				
PCB-37	2.15e+07	0.97 y	30:22	1.14	47.7		2.50	-	-	*	-
13C-PCB-37	3.94e+07	1.04 y	30:22	1.38	92.6		2.50				92.6
PCB-54	2.23e+07	0.79 y	25:32	1.05	53.7		2.50	-	-	*	-
13C-PCB-54	3.95e+07	0.81 y	25:30	1.25	102		2.50				102
PCB-104	1.34e+07	1.59 y	29:57	1.14	55.9		2.50	-	-	*	-
13C-PCB-104	2.09e+07	1.62 y	29:56	0.91	74.4		2.50				74.4
13C-PCB-28	4.81e+07	1.03 y	26:37	1.48	105		2.50				105
13C-PCB-52	3.09e+07	0.78 y	28:51	-	37.1		2.50				
PCB-81	2.06e+07	0.77 y	36:07	1.14	49.9		2.50	-	-	*	-
13C-PCB-81	3.61e+07	0.80 y	36:06	1.27	107		2.50				107
PCB-77	2.05e+07	0.77 y	36:41	1.10	49.0		2.50	-	-	*	-
13C-PCB-77	3.80e+07	0.81 y	36:40	1.27	113		2.50				113
PCB-155	1.35e+07	1.28 y	34:07	1.11	52.3		2.50	-	-	*	-
13C-PCB-155	2.33e+07	1.26 y	34:06	1.09	80.6		2.50				80.6
13C-PCB-111	3.43e+07	1.62 y	36:12	1.25	103		2.50				103
13C-PCB-101	2.66e+07	1.64 y	34:32	-	36.5		2.50				
PCB-123	1.79e+07	1.50 y	38:17	1.05	51.4		2.50	-	-	*	-
13C-PCB-123	3.30e+07	1.59 y	38:15	1.20	106		2.50				106
PCB-118	2.06e+07	1.50 y	38:27	1.07	49.3		2.50	-	-	*	-
13C-PCB-118	3.92e+07	1.59 y	38:25	1.31	115		2.50				115
PCB-114	1.96e+07	1.52 y	39:05	1.08	48.7		2.50	-	-	*	-
13C-PCB-114	3.71e+07	1.60 y	39:03	1.23	116		2.50				116
PCB-105	1.87e+07	1.54 y	39:54	1.08	47.8		2.50	-	-	*	-
13C-PCB-105	3.63e+07	1.60 y	39:52	1.24	113		2.50				113
PCB-126	1.87e+07	1.55 y	42:02	1.07	48.8		2.50	-	-	*	-
13C-PCB-126	3.59e+07	1.64 y	42:02	1.17	118		2.50				118
PCB-167	1.75e+07	1.28 y	43:23	0.98	54.9		2.50	-	-	*	-
13C-PCB-167	3.25e+07	1.27 y	43:21	1.24	101		2.50				101
PCB-156	1.68e+07	1.26 y	44:37	1.01	52.8		2.50	-	-	*	-
13C-PCB-156	3.14e+07	1.29 y	44:35	1.18	103		2.50				103
PCB-157	1.73e+07	1.27 y	44:52	0.96	54.2		2.50	-	-	*	-
13C-PCB-157	3.31e+07	1.26 y	44:50	1.22	104		2.50				104
PCB-169	1.65e+07	1.23 y	46:47	1.00	52.4		2.50	-	-	*	-
13C-PCB-169	3.15e+07	1.28 y	46:45	1.11	110		2.50				110
PCB-188	1.59e+07	1.06 y	39:37	1.09	55.5		2.50	-	-	*	-
13C-PCB-188	2.61e+07	1.08 y	39:36	1.22	82.5		2.50				82.5
PCB-189	1.29e+07	1.06 y	48:27	1.14	53.0		2.50	-	-	*	-
13C-PCB-189	2.15e+07	1.08 y	48:27	0.97	85.5		2.50				85.5
PCB-202	8.80e+06	0.91 y	44:45	1.05	52.3		2.50	-	-	*	-
13C-PCB-202	1.60e+07	0.93 y	44:44	0.88	70.3		2.50				70.3
13C-PCB-178	1.73e+07	1.07 y	42:14	0.77	86.9		2.50				86.9
13C-PCB-138	2.59e+07	1.27 y	41:28	-	37.1		2.50				

FAL ID: ST091916Z3 Filename: 19SEP16Z Sam:20 Acquired: 20-SEP-16 08:23:33 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R160816B ConCal: ST091916Z2 EndCal: ST091916Z3
Results: 19SEP16Z GC Column: DB1 Amount: 1.000

PCB-205	1.64e+07	0.88	y	50:11	1.02	52.1	2.50	-	-	*	-
13C-PCB-205	3.09e+07	0.90	y	50:10	1.38	97.3	2.50				97.3
PCB-208	1.45e+07	1.35	y	49:12	0.93	53.9	2.50	-	-	*	-
13C-PCB-208	2.88e+07	0.79	y	49:11	1.31	95.5	2.50				95.5
PCB-206	1.03e+07	1.39	y	51:27	0.94	55.4	2.50	-	-	*	-
13C-PCB-206	1.97e+07	0.79	y	51:27	1.01	84.7	2.50				84.7
PCB-209	1.34e+07	1.19	y	52:45	1.10	51.3	2.50	-	-	*	-
13C-PCB-209	2.37e+07	1.22	y	52:44	1.34	77.2	2.50				77.2
13C-PCB-194	2.30e+07	0.91	y	49:55	-	45.6	2.50				

Analyst: _____ Date: 9/20/16

Frontier Analytical Laboratory - Acquisition Log

Run Name:19SEP16Z Instrument: FAL4 GC: DB1 Experiment:1668PCB

Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
19SEP16Z	1	ST091916Z1	1668 CS3 R160816B	19-SEP-16 14:30:56	ST091916Z1	ST091916Z2	BS
19SEP16Z	2	SS091916Z1	Daily 209 160711B	19-SEP-16 15:27:23	ST091916Z1	ST091916Z2	BS
19SEP16Z	3	03849-001-0001-OPR	OPR	19-SEP-16 16:23:52	ST091916Z1	ST091916Z2	BS
19SEP16Z	4	03849-001-0001-MB	Method Blank	19-SEP-16 17:20:19	ST091916Z1	ST091916Z2	BS
19SEP16Z	5	10146-001-0001-SA	LDW-BA-SC-ENR+AC-CA-S010	19-SEP-16 18:16:48	ST091916Z1	ST091916Z2	BS
19SEP16Z	6	10146-002-0001-SA	LDW-BA-SC-ENR+AC-CB-S010*	19-SEP-16 19:13:16	ST091916Z1	ST091916Z2	BS
19SEP16Z	7	10146-003-0001-SA	LDW-BA-SC-ENR+AC-CC-S010	19-SEP-16 20:09:44	ST091916Z1	ST091916Z2	BS
19SEP16Z	8	10146-004-0001-SA	LDW-BA-SC-ENR-CA-S010	19-SEP-16 21:06:11	ST091916Z1	ST091916Z2	BS
19SEP16Z	9	10146-005-0001-SA	LDW-BA-SC-ENR-CB-S010*	19-SEP-16 22:02:38	ST091916Z1	ST091916Z2	BS
19SEP16Z	10	10146-006-0001-SA	LDW-BA-SC-ENR-CC-S010	19-SEP-16 22:59:03	ST091916Z1	ST091916Z2	BS
19SEP16Z	11	10146-007-0001-SA	LDW-BA-IN-ENR+AC-CA-S010*	19-SEP-16 23:55:30	ST091916Z1	ST091916Z2	BS
19SEP16Z	12	10146-008-0001-SA	LDW-BA-IN-ENR+AC-CB-S010	20-SEP-16 00:51:57	ST091916Z1	ST091916Z2	BS
19SEP16Z	13	10146-009-0001-SA	LDW-BA-IN-ENR+AC-CC-S010	20-SEP-16 01:48:23	ST091916Z1	ST091916Z2	BS
19SEP16Z	14	SB091916Z1	Solvent Blank	20-SEP-16 02:44:50	ST091916Z1	ST091916Z2	BS
19SEP16Z	15	ST091916Z2	1668 CS3 R160816B	20-SEP-16 03:41:16	ST091916Z1	ST091916Z2	BS
19SEP16Z	16	SB091916Z1	Solvent Blank	20-SEP-16 04:37:44	ST091916Z2	ST091916Z3	BS
19SEP16Z	17	10146-010-0001-SA	LDW-BA-IN-ENR-CA-S010	20-SEP-16 05:34:10	ST091916Z2	ST091916Z3	BS
19SEP16Z	18	10146-011-0001-SA	LDW-BA-IN-ENR-CB-S010	20-SEP-16 06:30:36	ST091916Z2	ST091916Z3	BS
19SEP16Z	19	10146-012-0001-SA	LDW-BA-IN-ENR-CC-S010	20-SEP-16 07:27:04	ST091916Z2	ST091916Z3	BS
19SEP16Z	20	ST091916Z3	1668 CS3 R160816B	20-SEP-16 08:23:33	ST091916Z2	ST091916Z3	BS

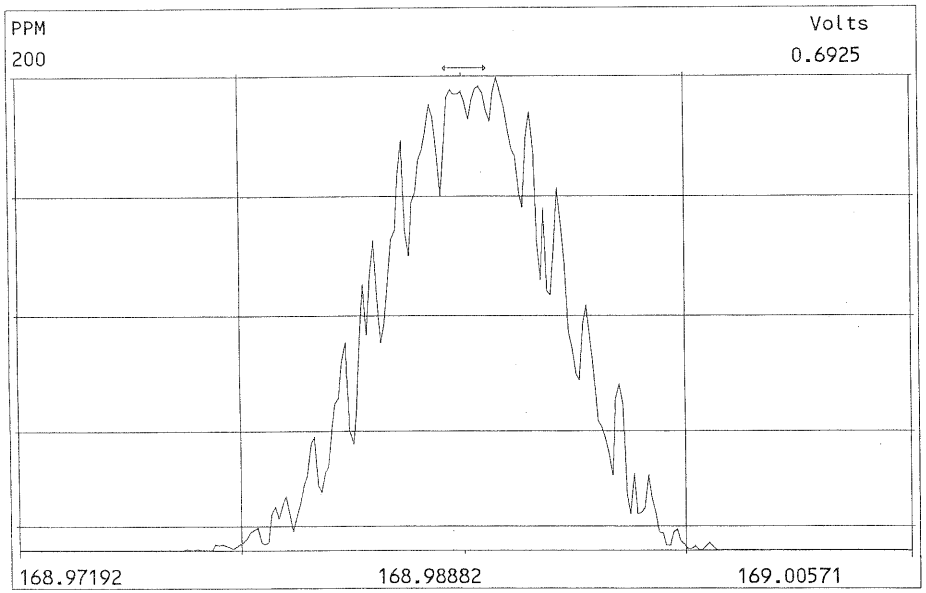
* Bad Injection - Reanalyze on 21SEP16Z

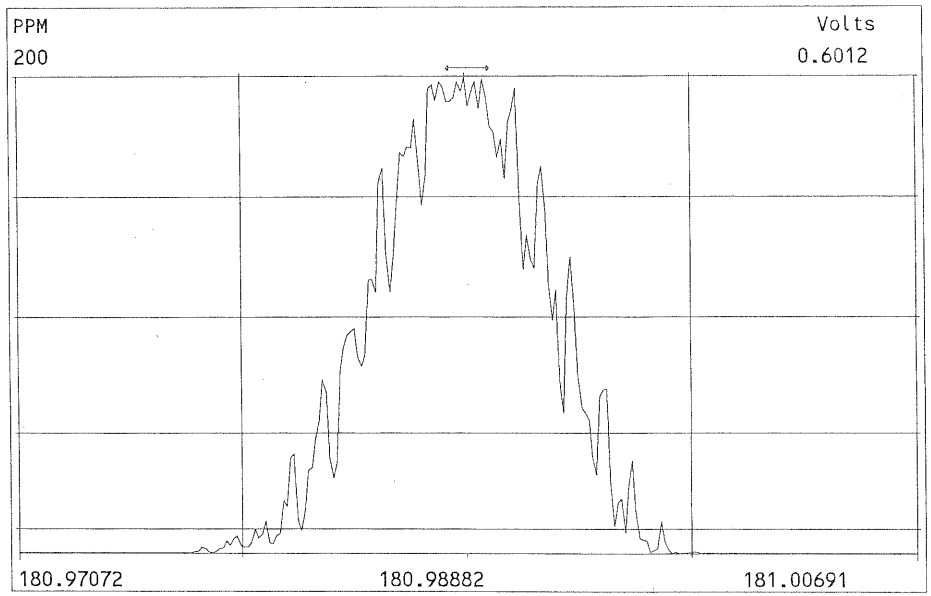
BS 9/20/16

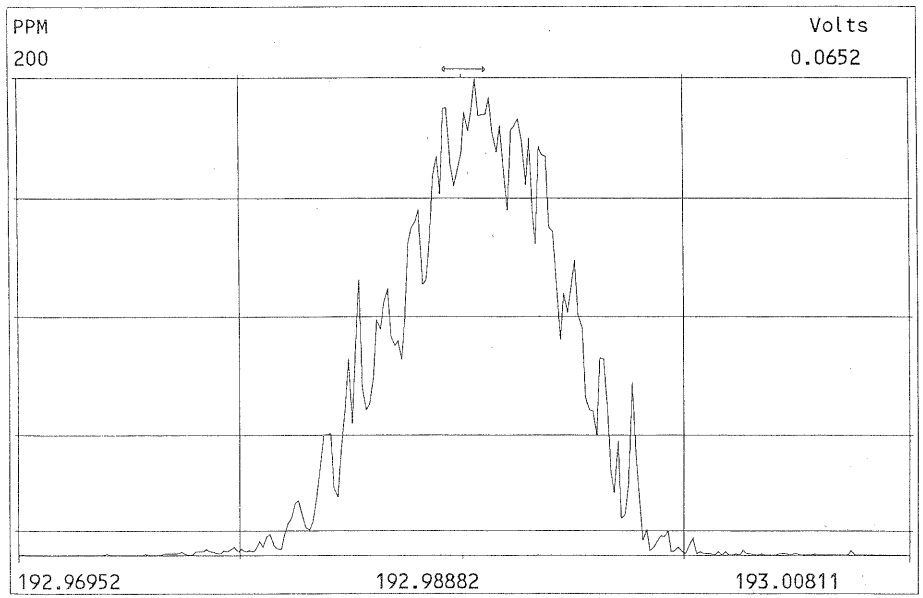
Data Backed Up:_____

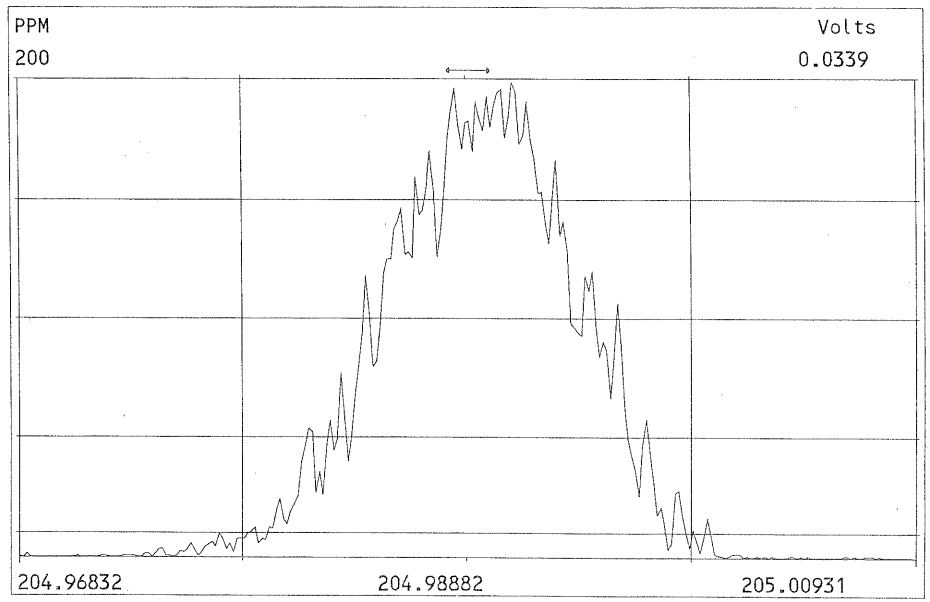
Date:_____

Peak Locate Examination:19-SEP-2016:14:27 File:19SEP16Z
Experiment:1668PCB Function:1 Reference:PFK

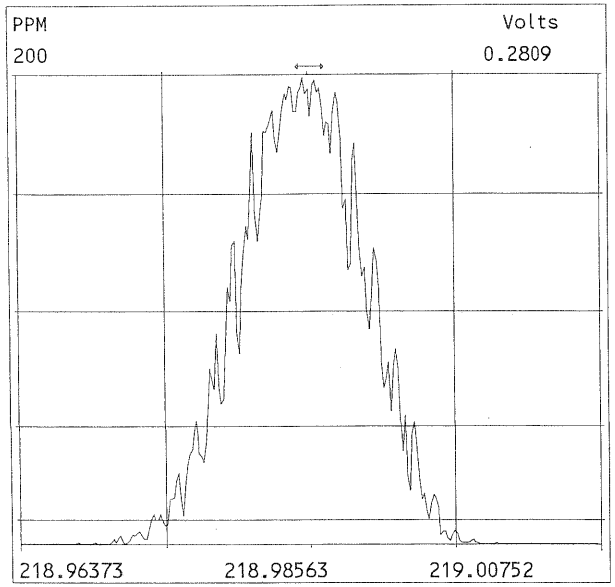


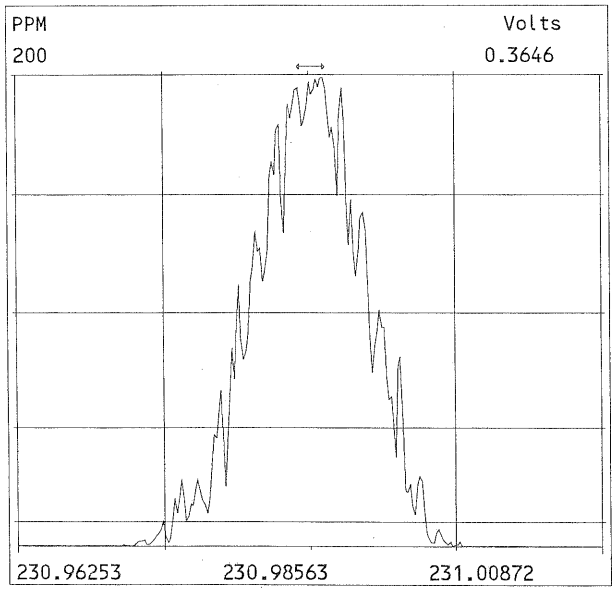


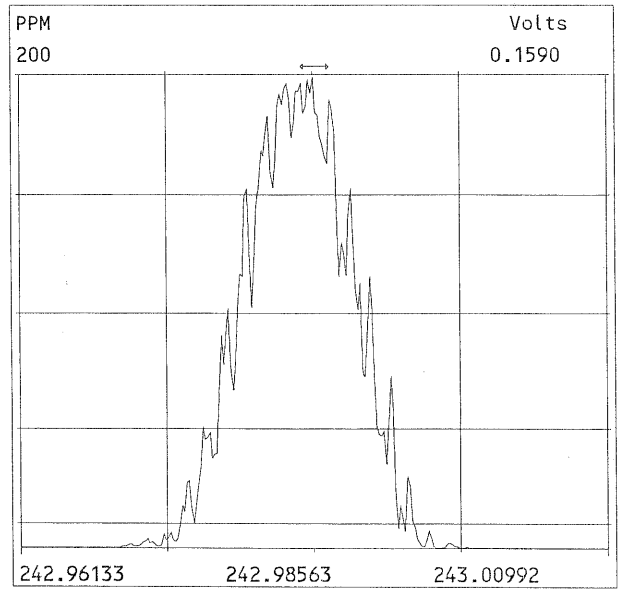


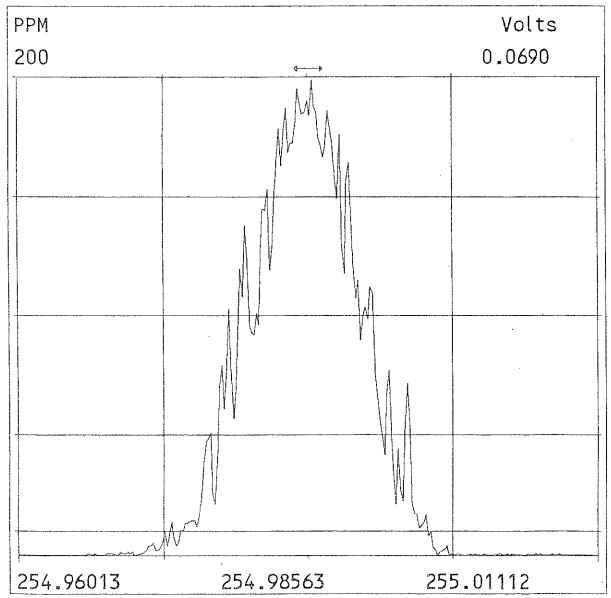


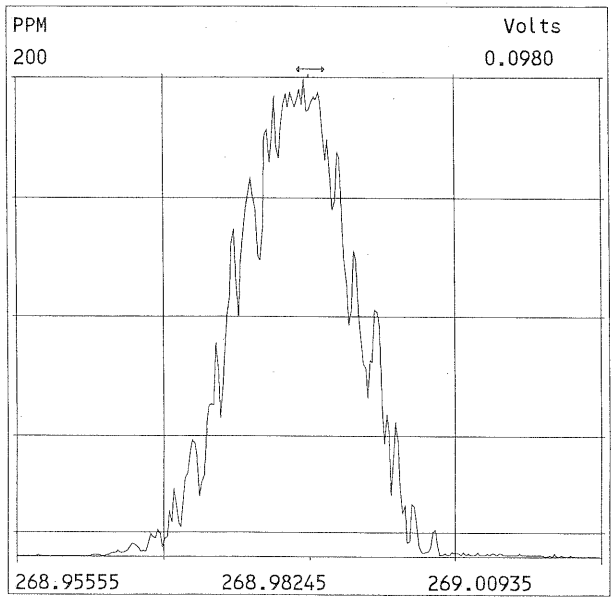
Peak Locate Examination:19-SEP-2016:14:28 File:19SEP16Z
Experiment:1668PCB Function:2 Reference:PFK

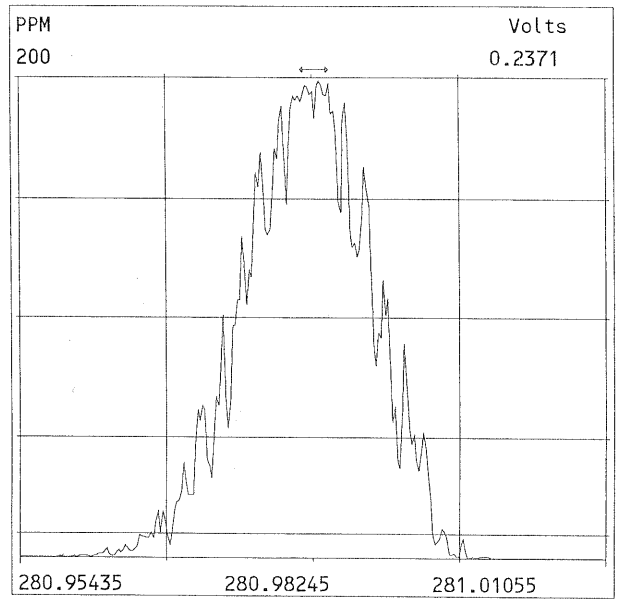




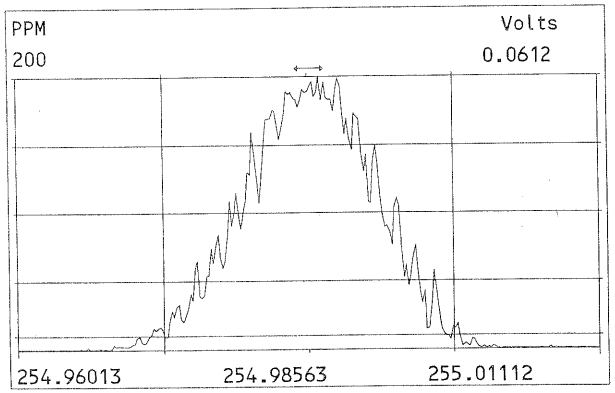


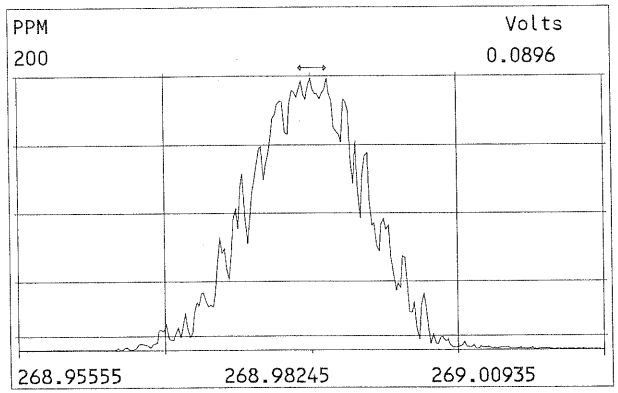


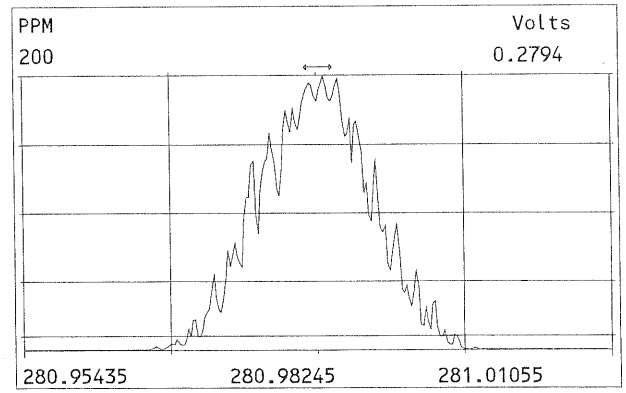


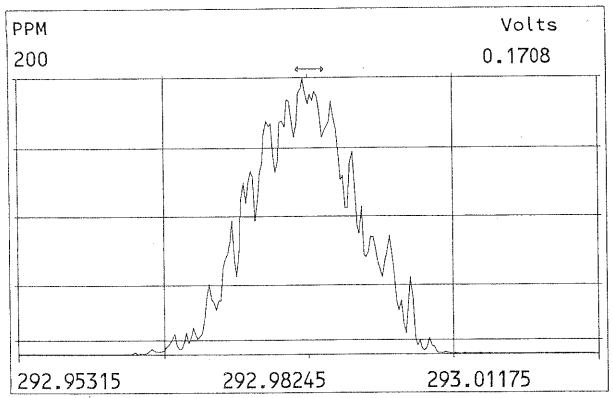


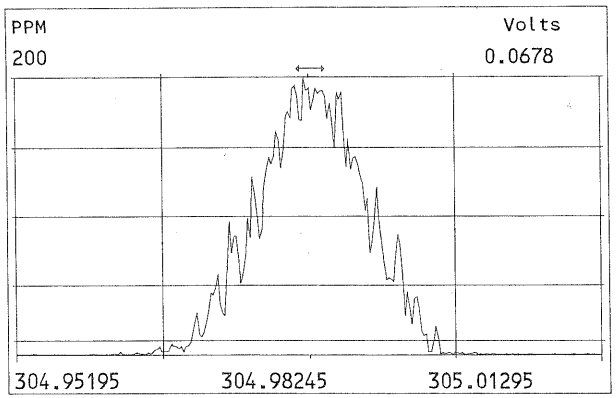
Peak Locate Examination:19-SEP-2016:14:28 File:19SEP16Z
Experiment:1668PCB Function:3 Reference:PFK

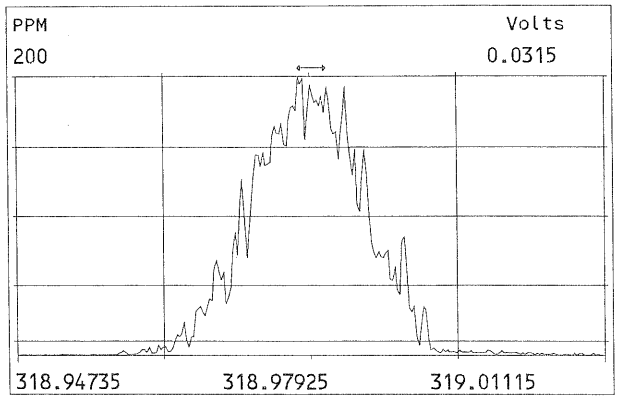


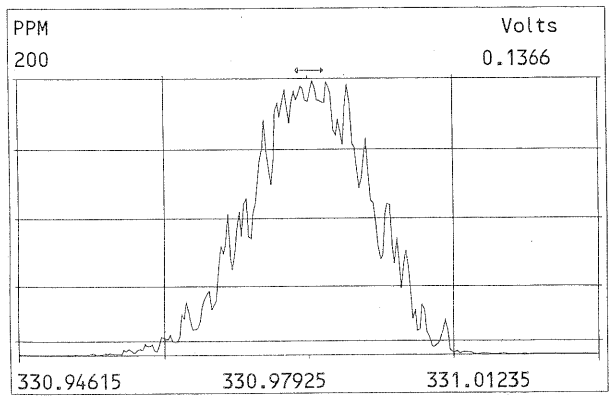


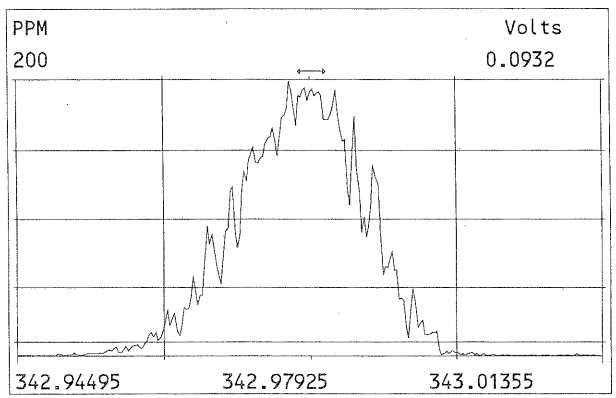




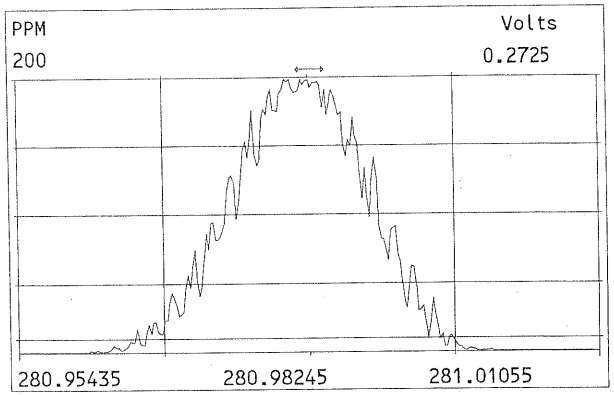


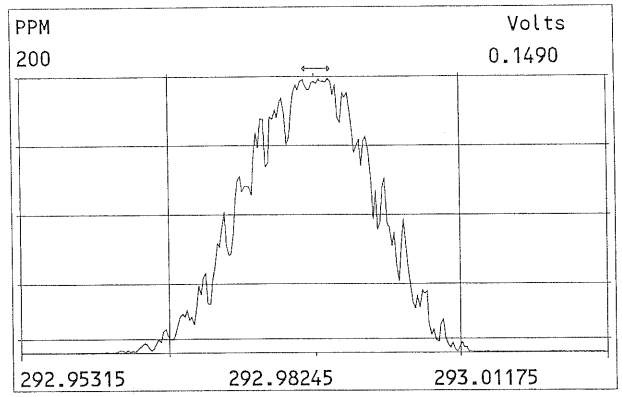


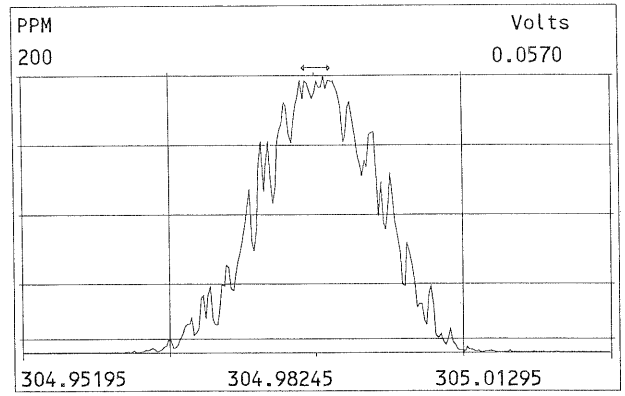


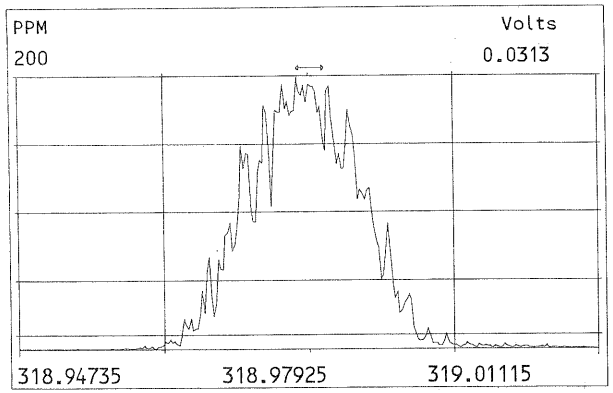


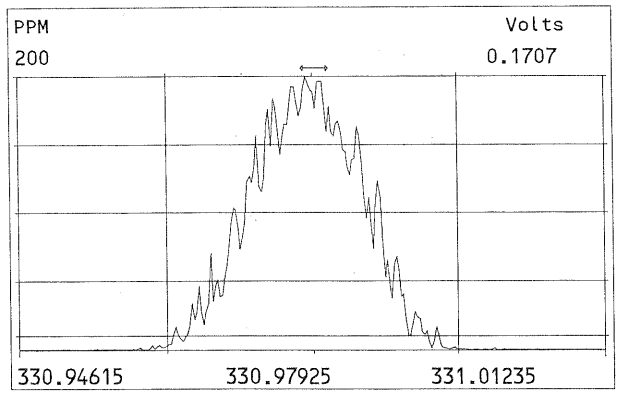
Peak Locate Examination:19-SEP-2016:14:29 File:19SEP16Z
Experiment:1668PCB Function:4 Reference:PFK

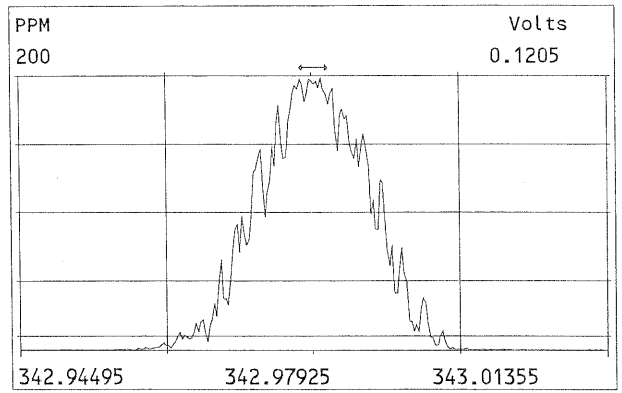


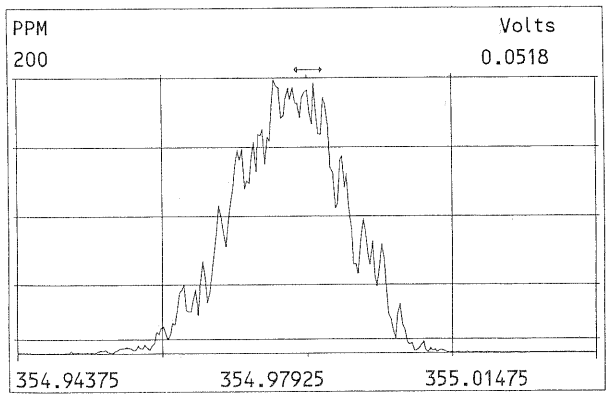


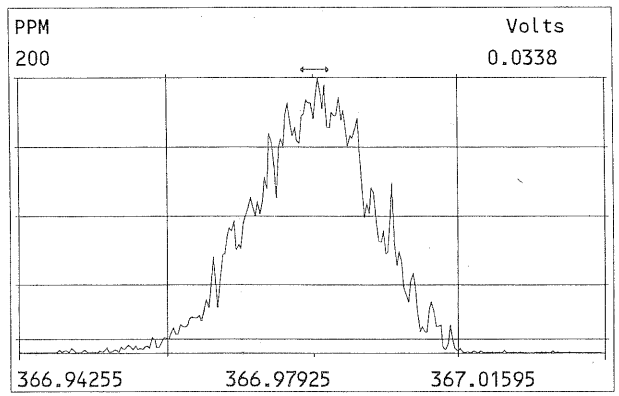


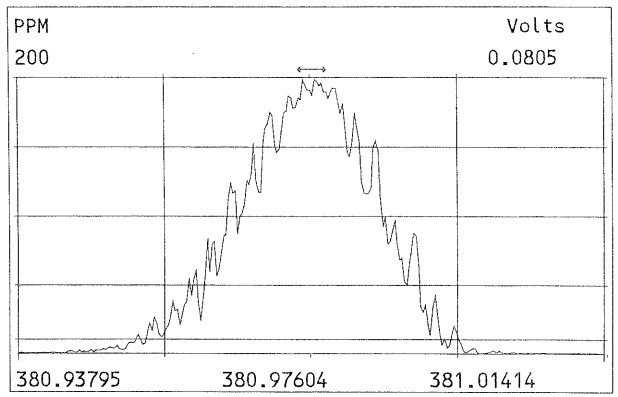




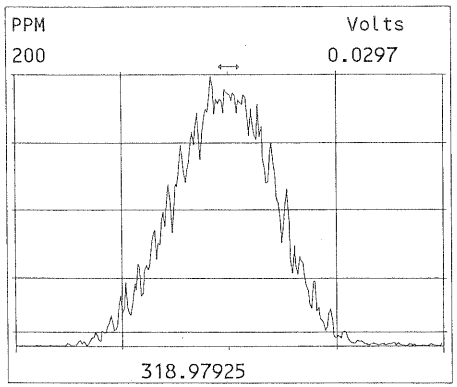


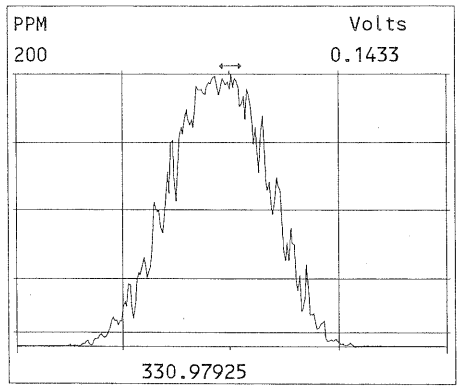


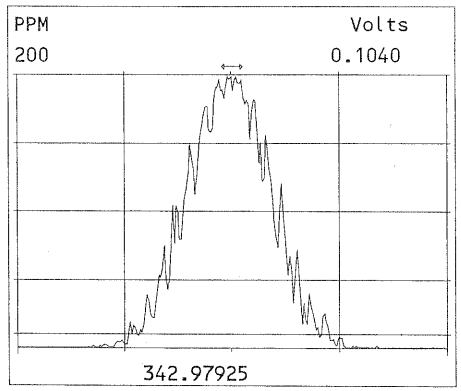


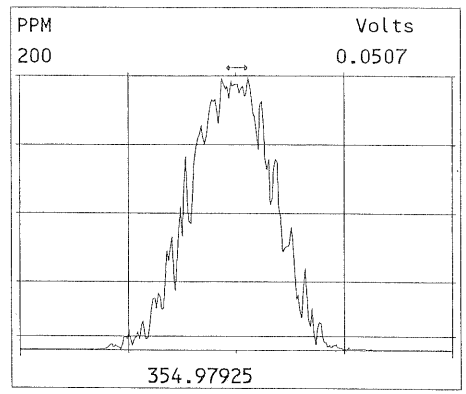


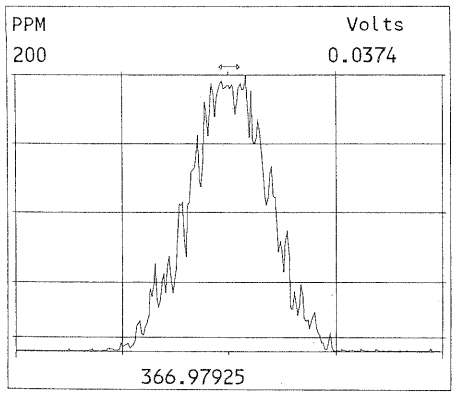
Peak Locate Examination:19-SEP-2016:14:29 File:19SEP16Z
Experiment:1668PCB Function:5 Reference:PFK

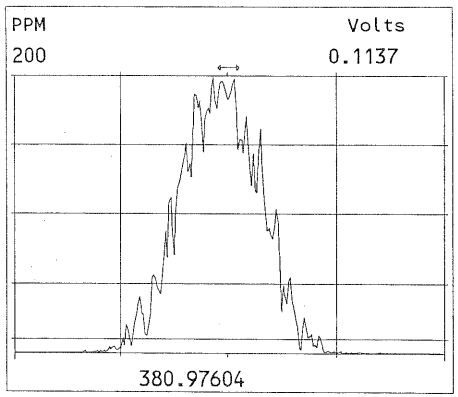


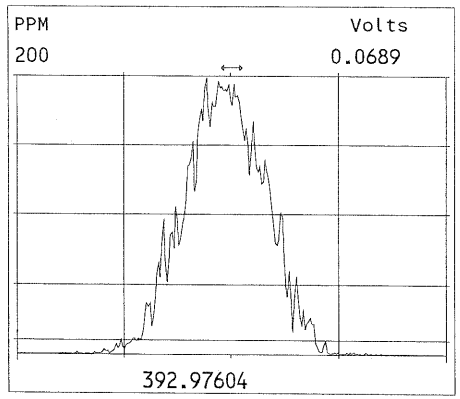


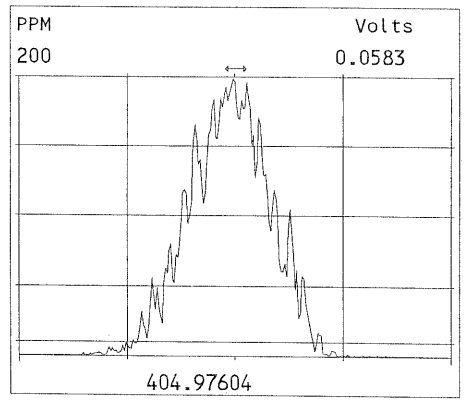


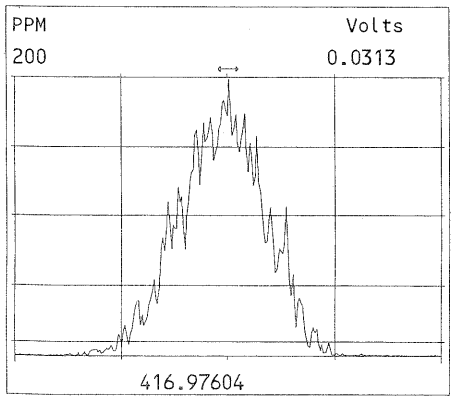


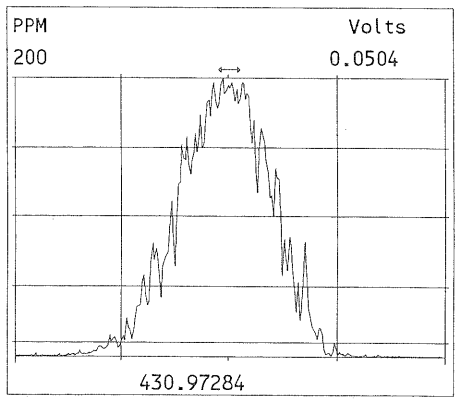


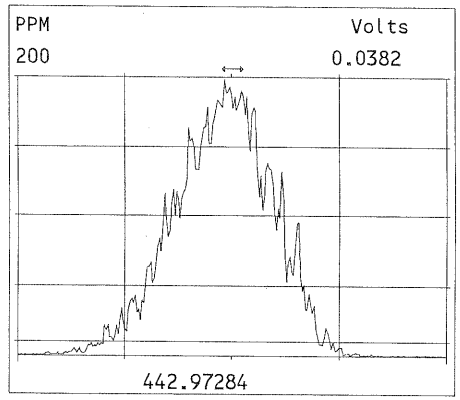




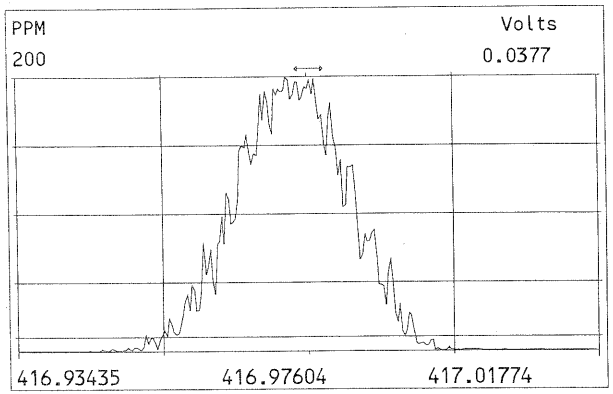


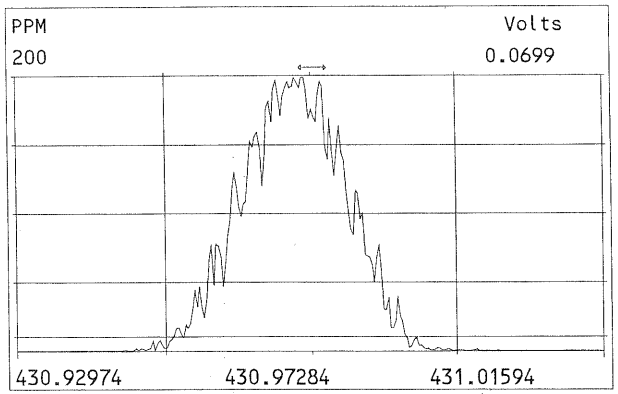


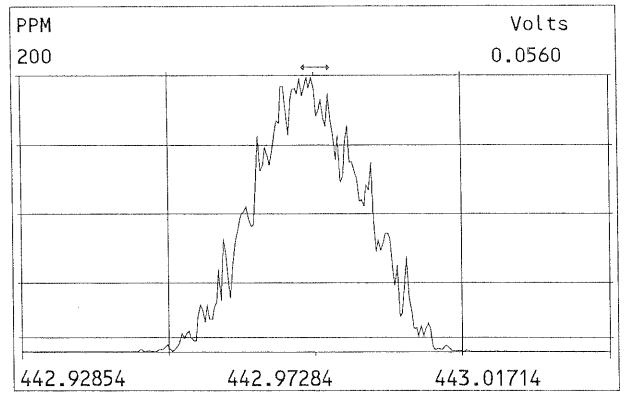


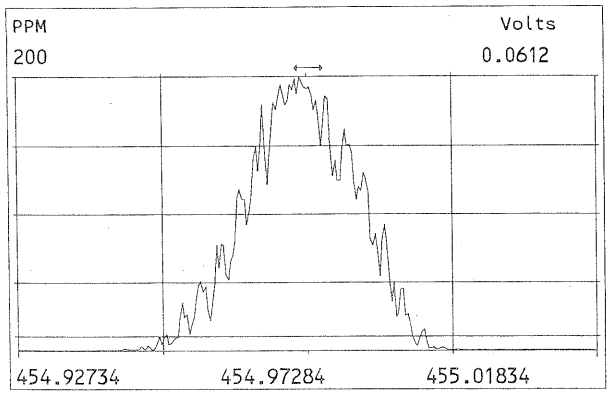


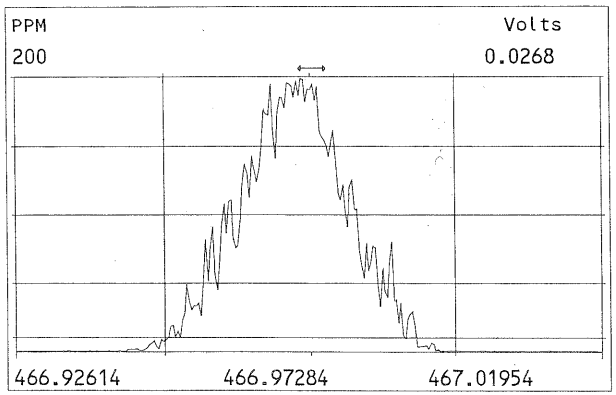
Peak Locate Examination:19-SEP-2016:14:30 File:19SEP16Z
Experiment:1668PCB Function:6 Reference:PFK

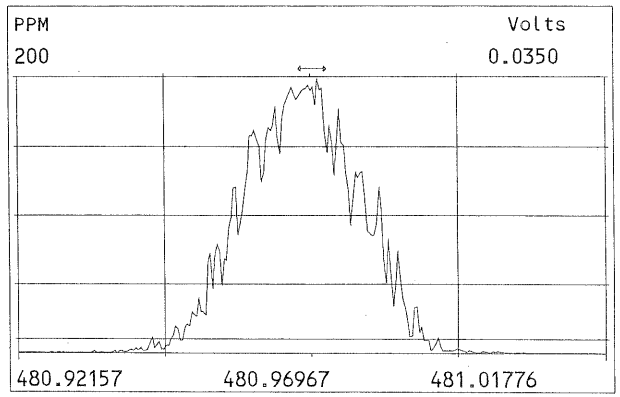


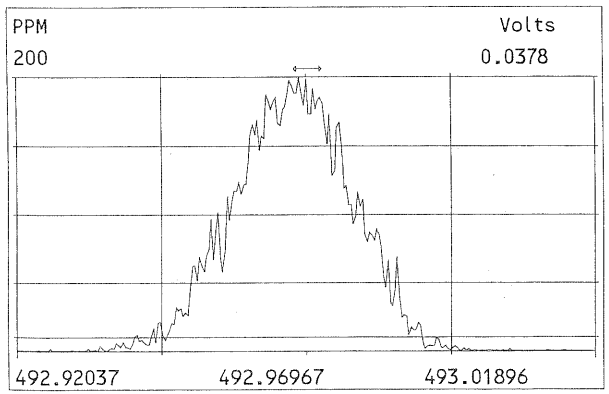


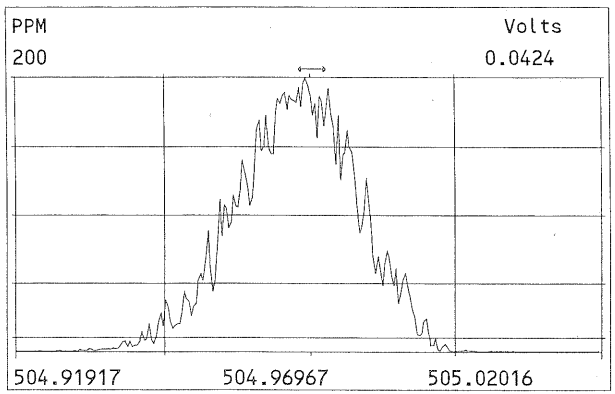


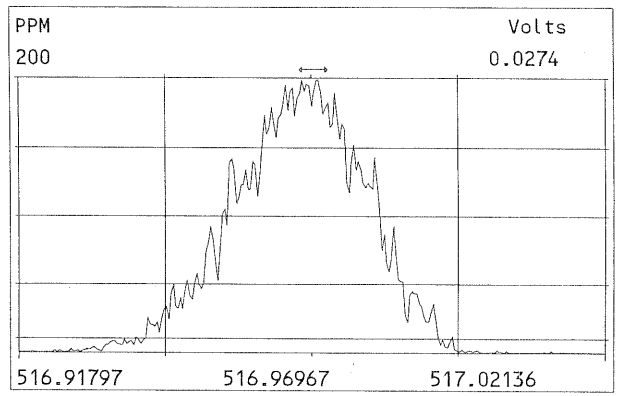




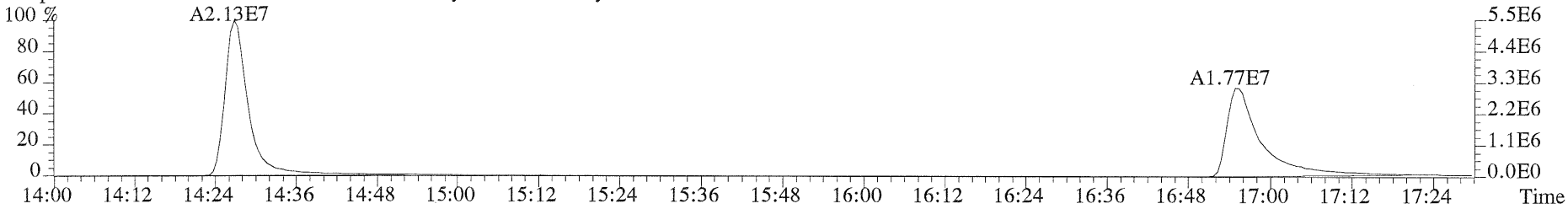




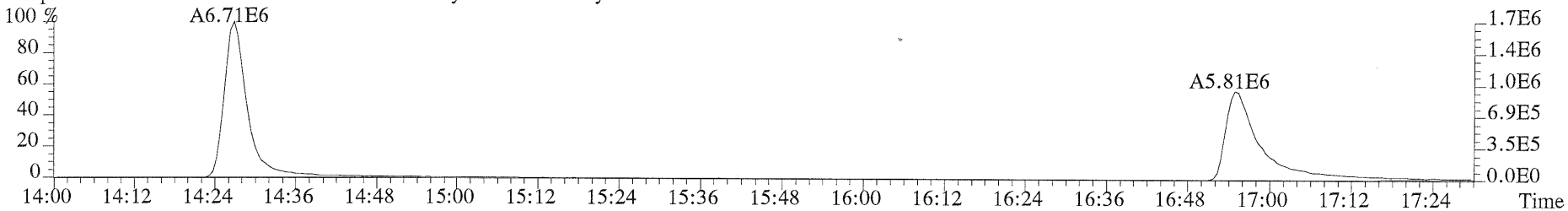




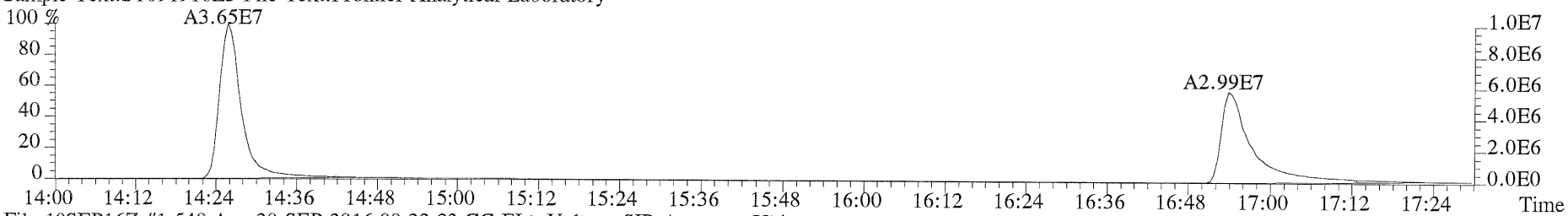
File:19SEP16Z #1-549 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:20 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



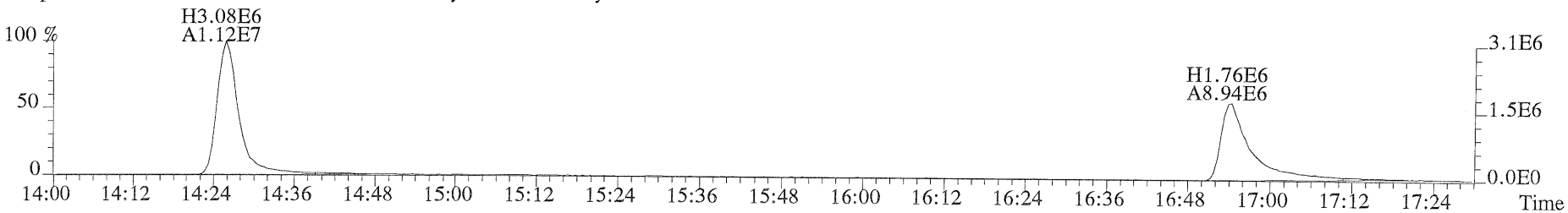
File:19SEP16Z #1-549 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:20 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



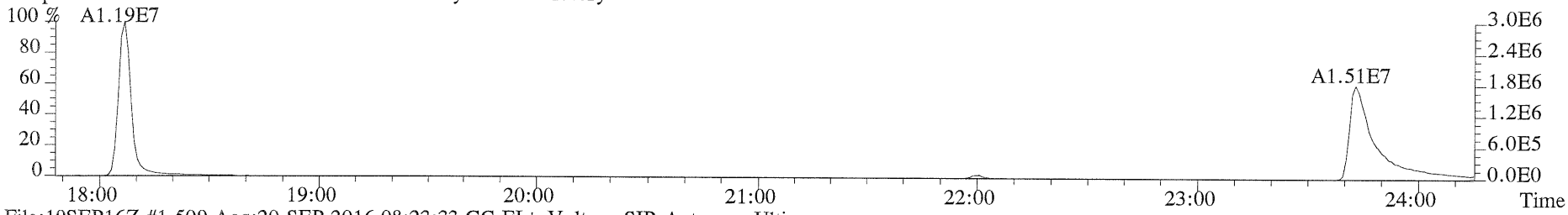
File:19SEP16Z #1-549 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:20 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



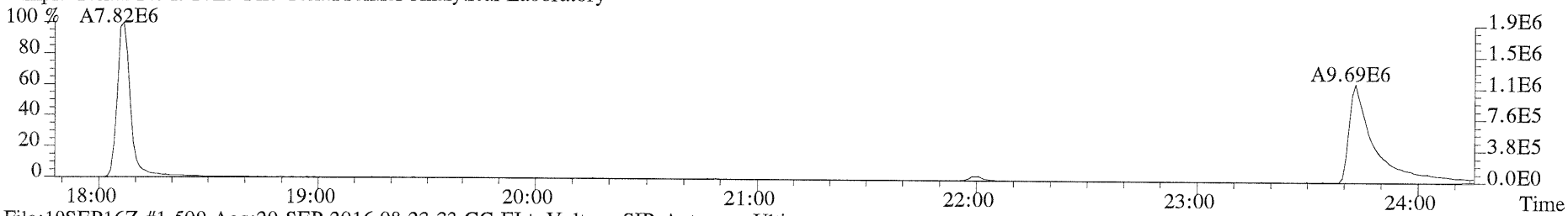
File:19SEP16Z #1-549 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:20 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



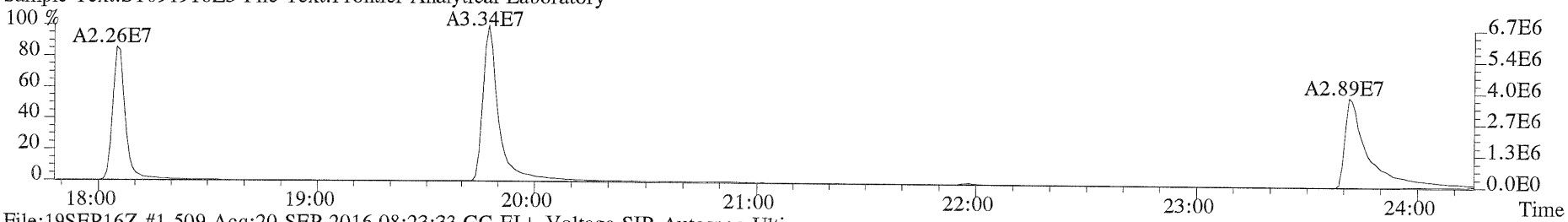
File:19SEP16Z #1-509 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:20 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



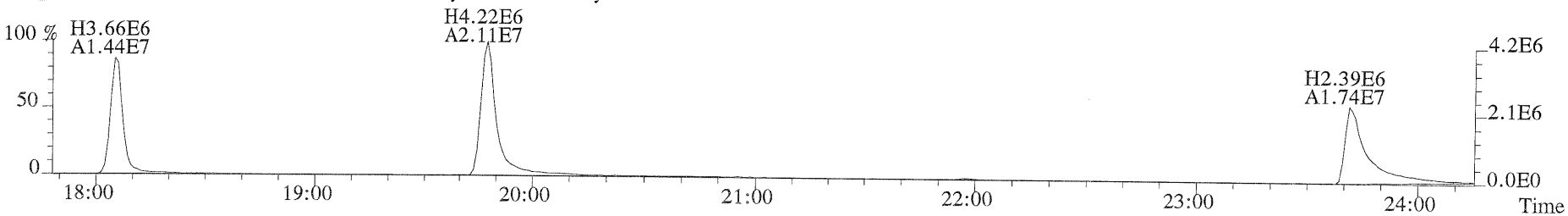
File:19SEP16Z #1-509 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:20 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



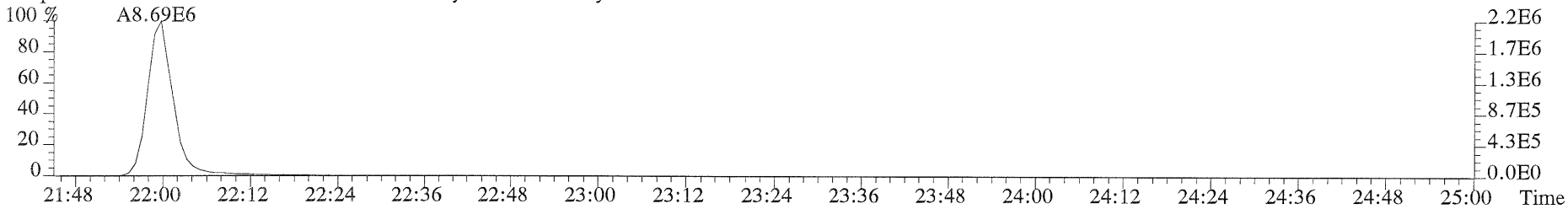
File:19SEP16Z #1-509 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:20 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



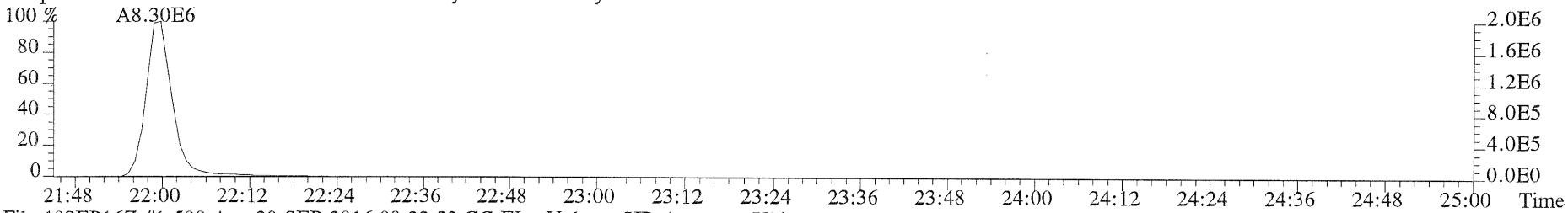
File:19SEP16Z #1-509 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:20 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



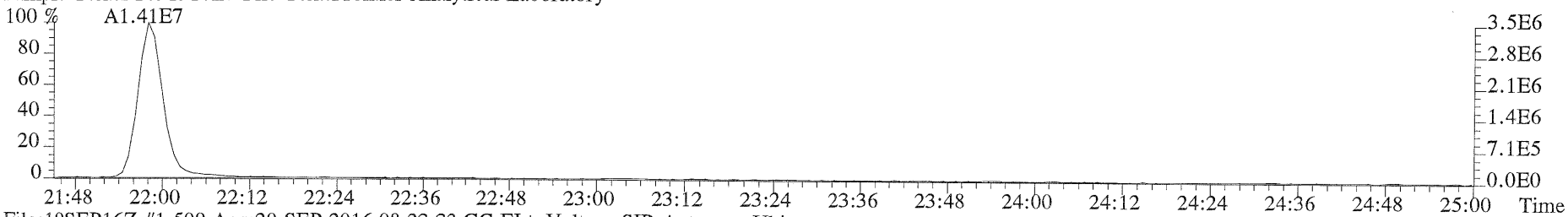
File:19SEP16Z #1-509 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:20 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



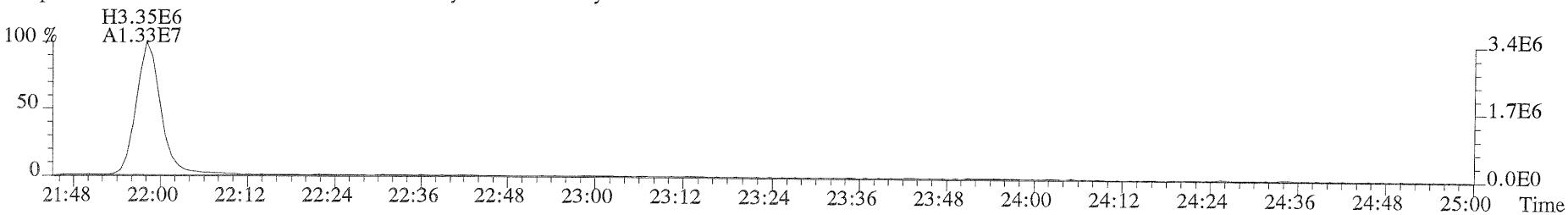
File:19SEP16Z #1-509 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:20 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



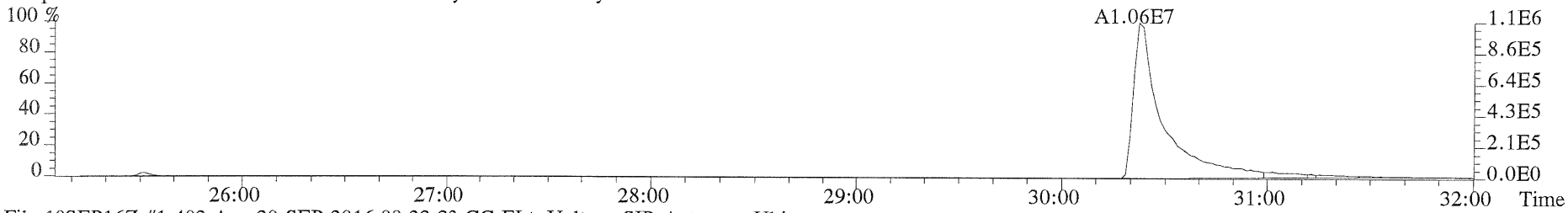
File:19SEP16Z #1-509 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:20 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



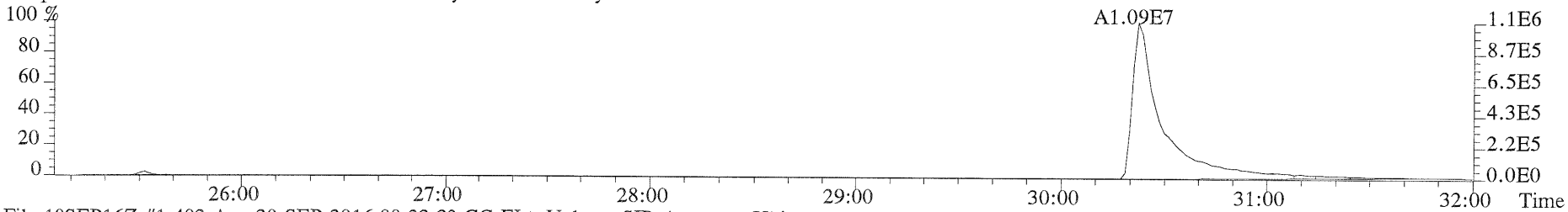
File:19SEP16Z #1-509 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:20 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



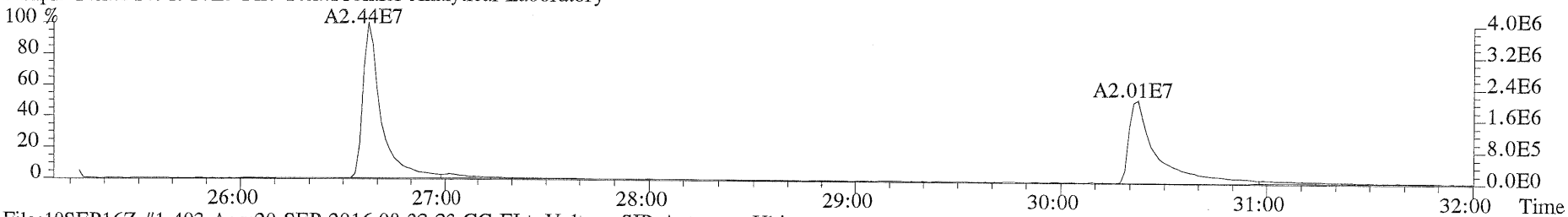
File:19SEP16Z #1-403 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:20 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



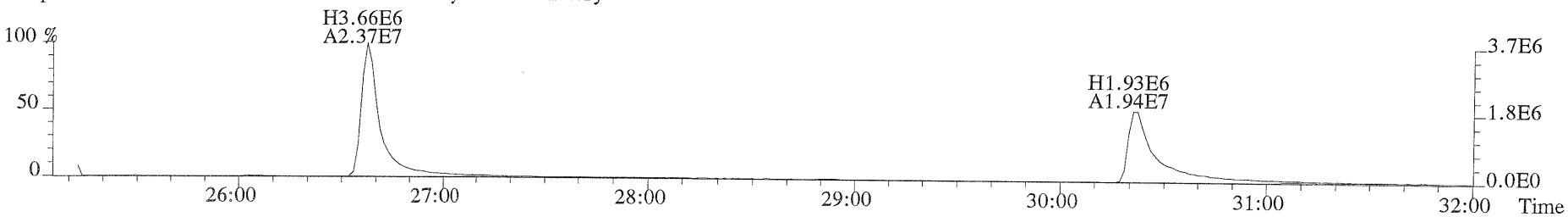
File:19SEP16Z #1-403 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:20 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



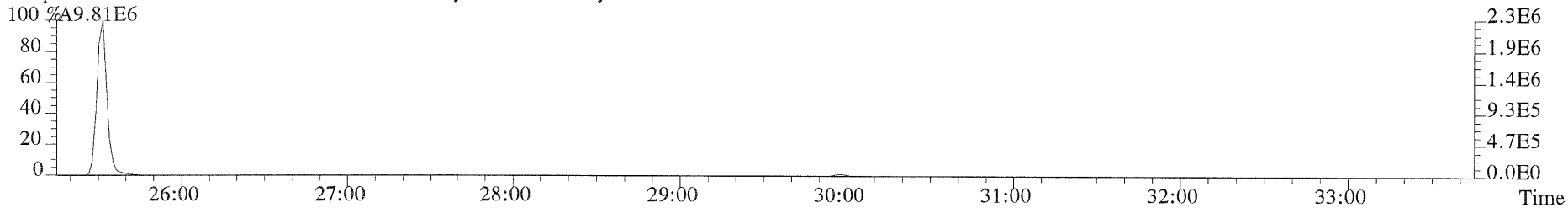
File:19SEP16Z #1-403 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:20 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



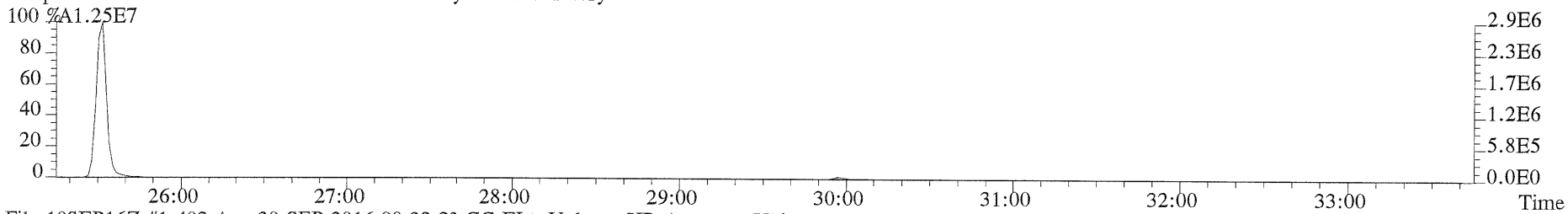
File:19SEP16Z #1-403 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:20 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



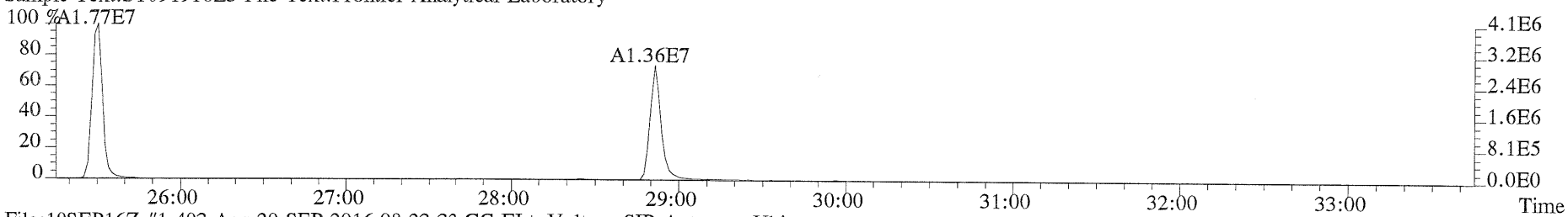
File:19SEP16Z #1-403 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:20 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



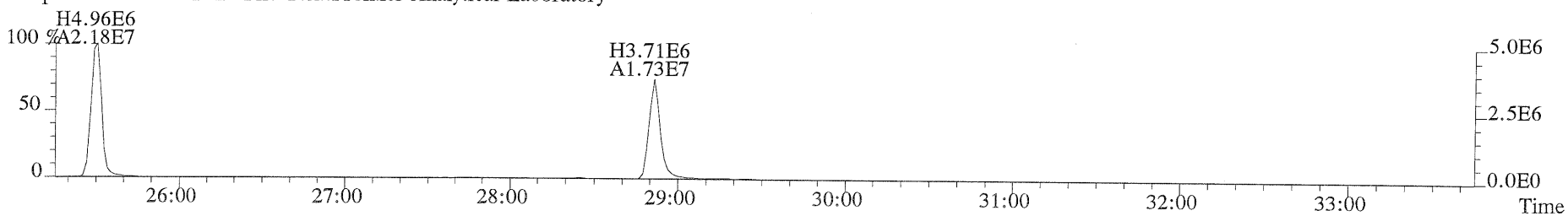
File:19SEP16Z #1-403 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:20 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



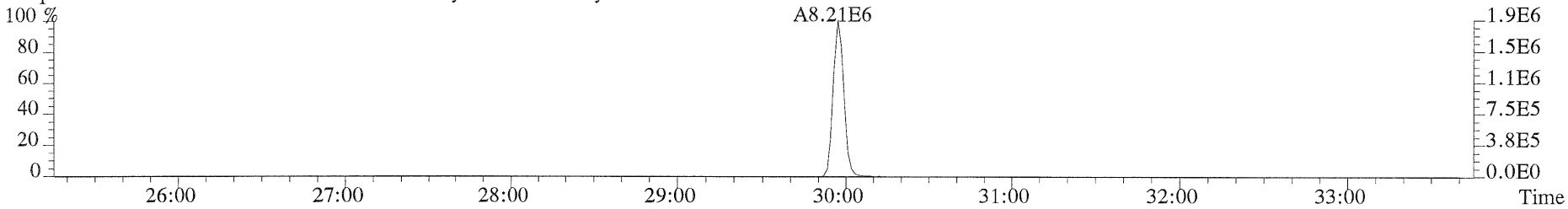
File:19SEP16Z #1-403 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:20 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



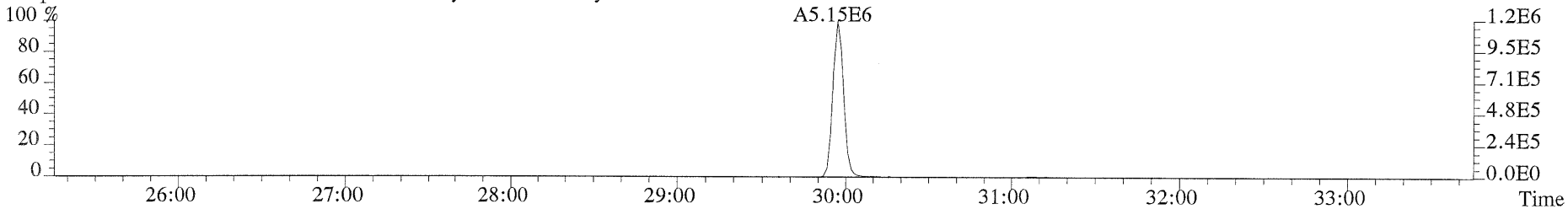
File:19SEP16Z #1-403 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:20 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



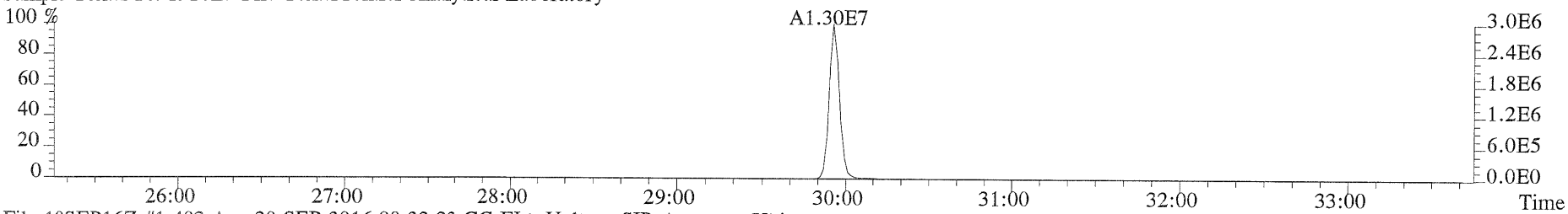
File:19SEP16Z #1-403 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:20 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



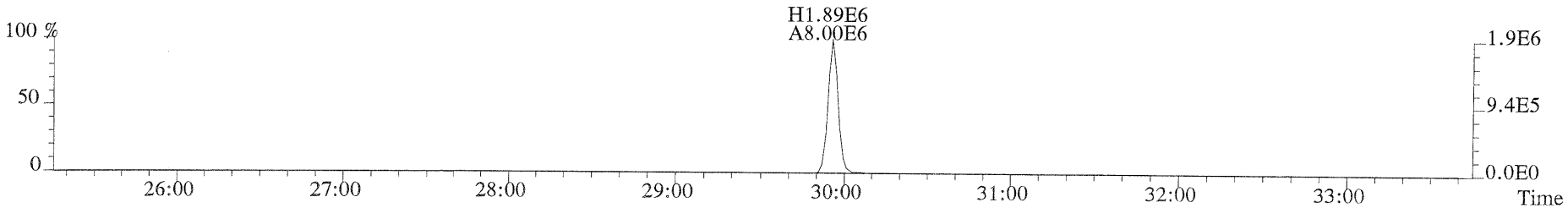
File:19SEP16Z #1-403 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:20 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



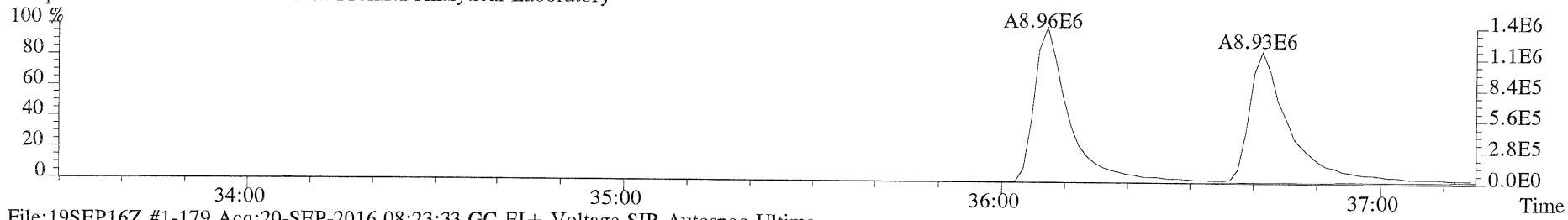
File:19SEP16Z #1-403 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:20 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



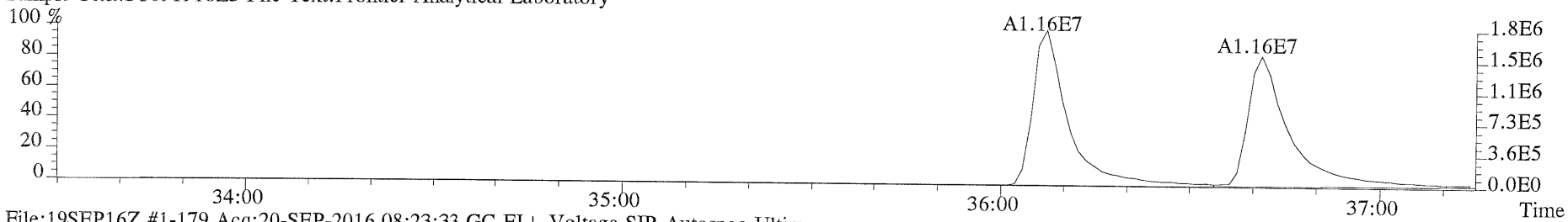
File:19SEP16Z #1-403 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:20 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



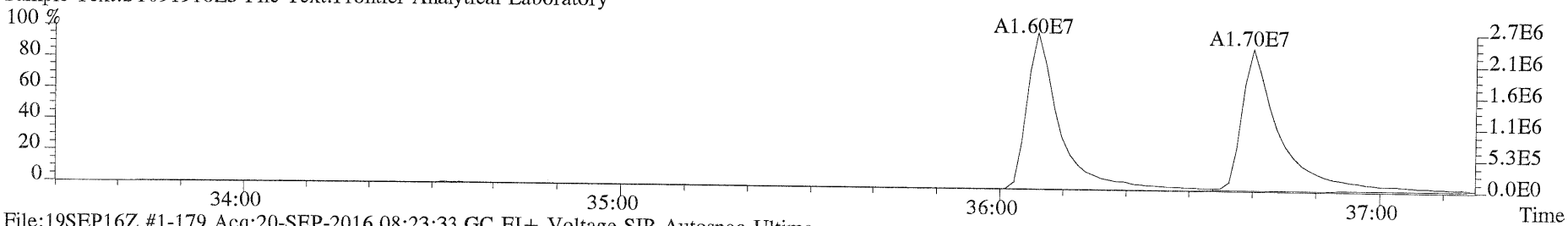
File:19SEP16Z #1-179 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



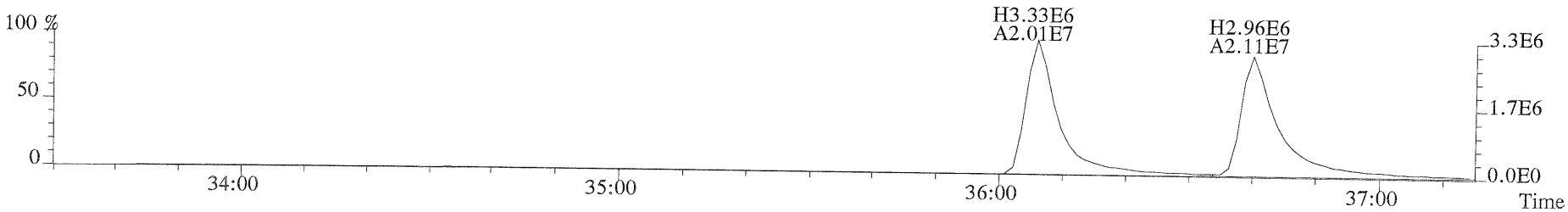
File:19SEP16Z #1-179 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



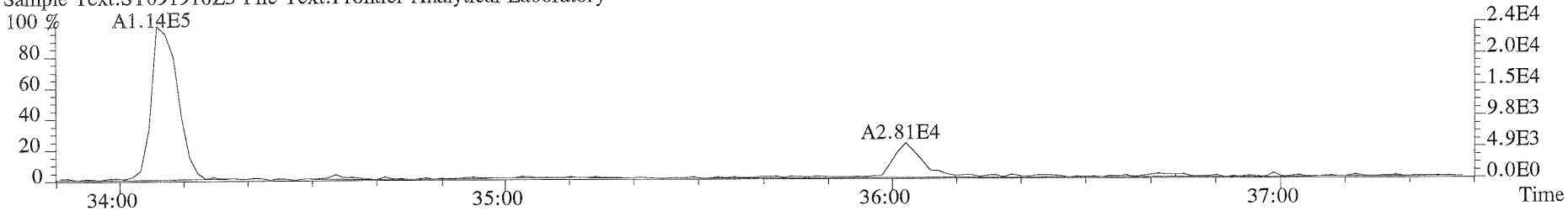
File:19SEP16Z #1-179 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



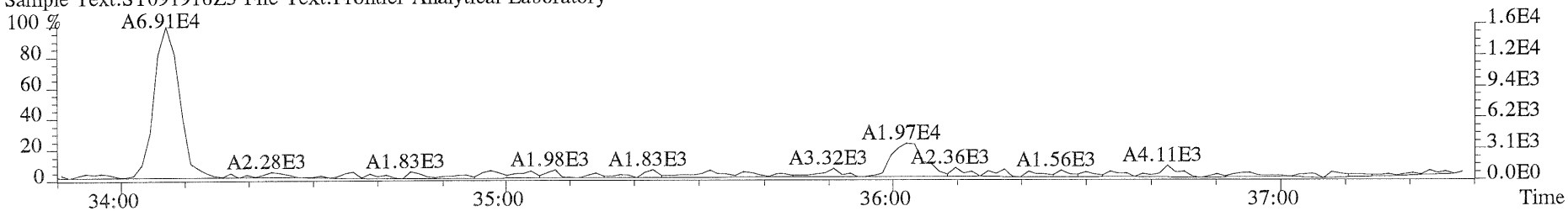
File:19SEP16Z #1-179 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



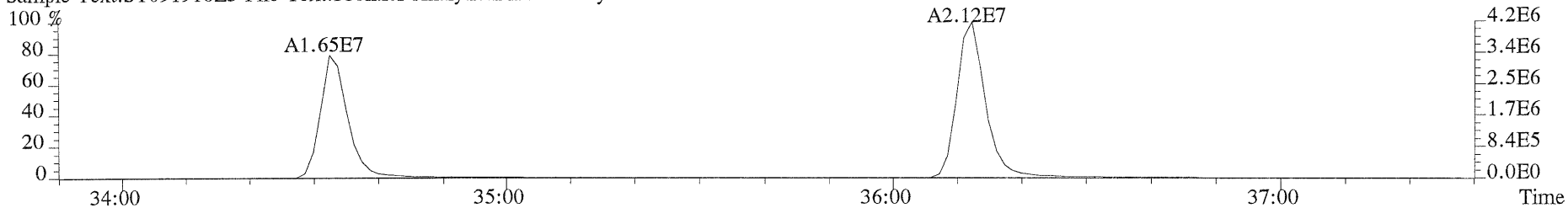
File:19SEP16Z #1-179 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



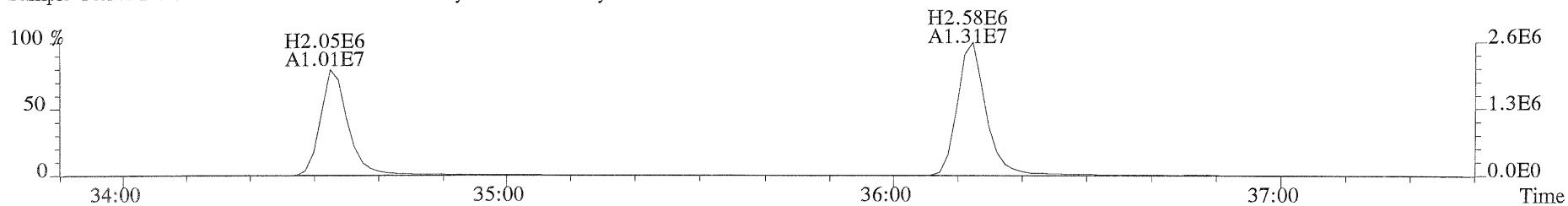
File:19SEP16Z #1-179 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



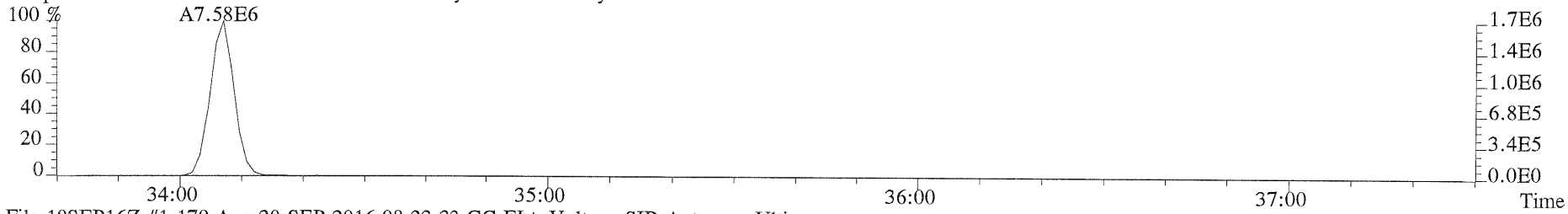
File:19SEP16Z #1-179 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



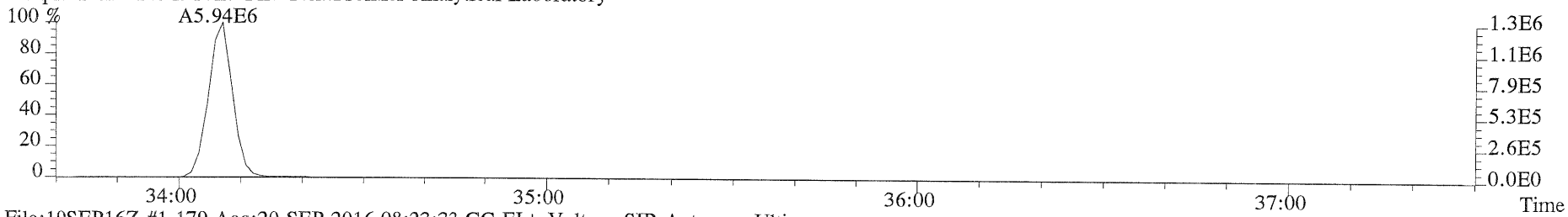
File:19SEP16Z #1-179 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



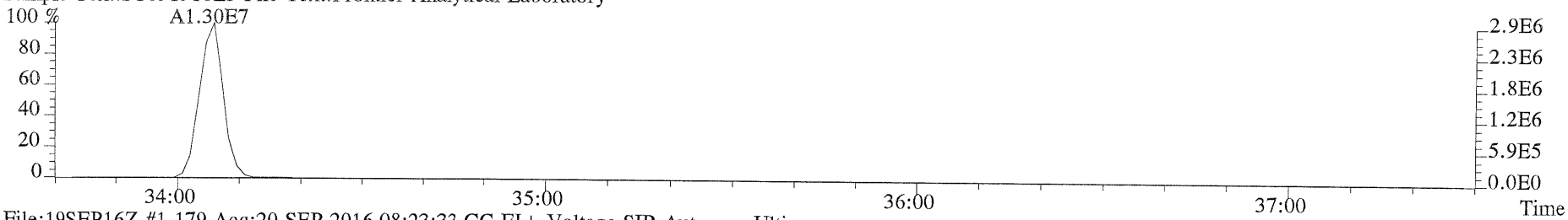
File:19SEP16Z #1-179 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



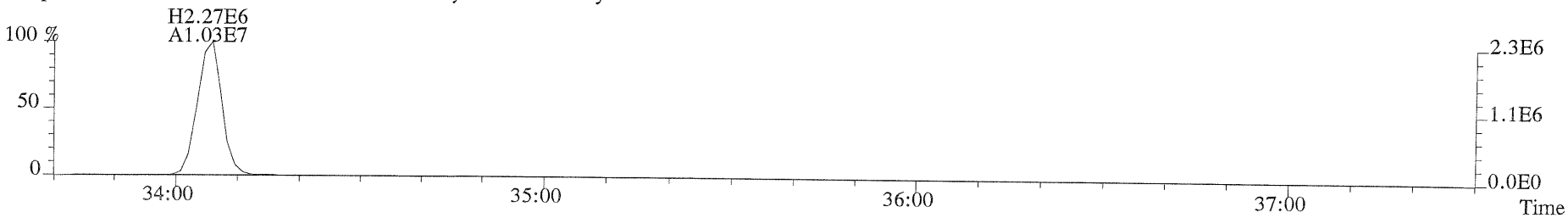
File:19SEP16Z #1-179 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



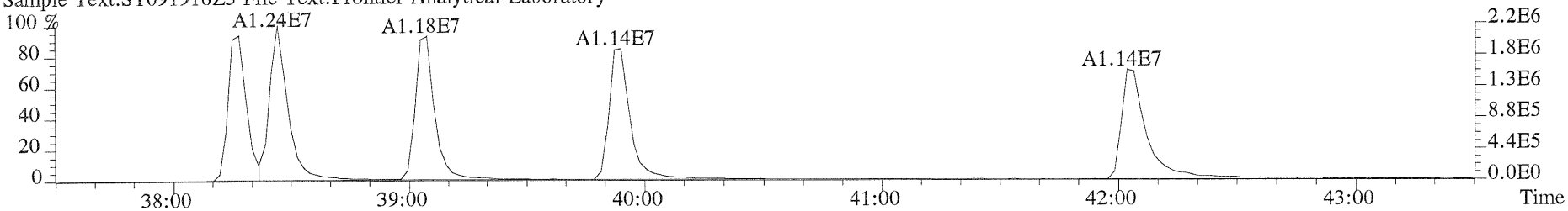
File:19SEP16Z #1-179 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



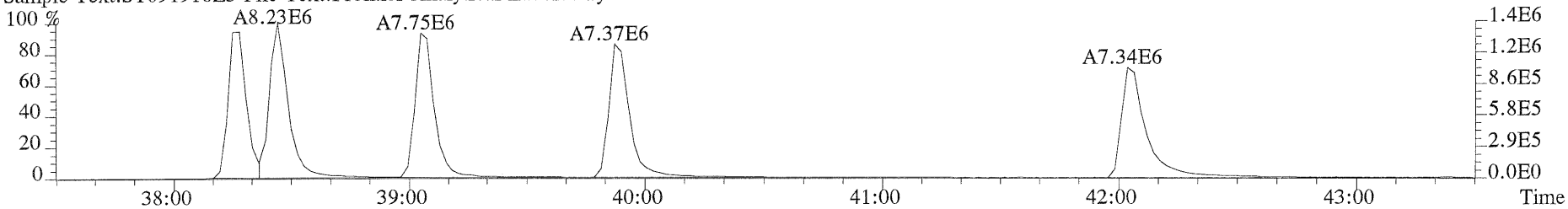
File:19SEP16Z #1-179 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



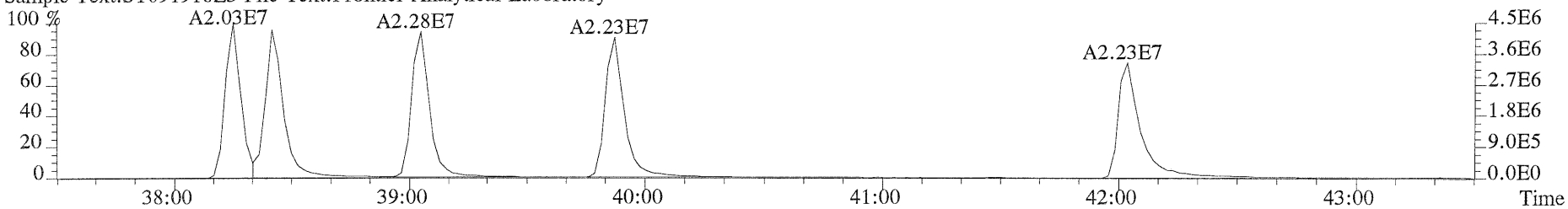
File:19SEP16Z #1-411 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



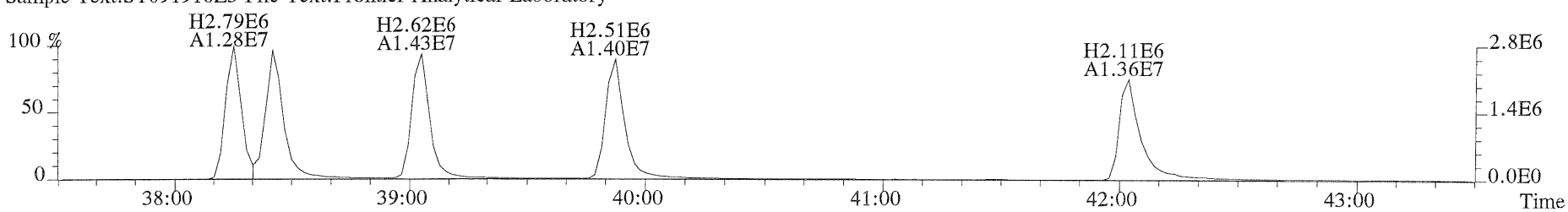
File:19SEP16Z #1-411 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



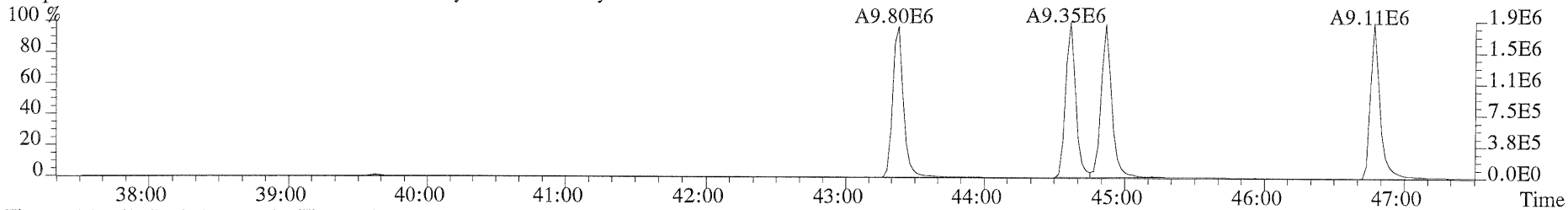
File:19SEP16Z #1-411 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



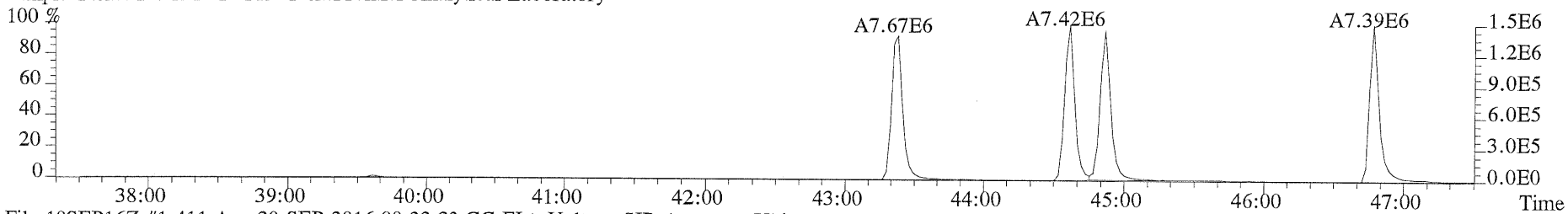
File:19SEP16Z #1-411 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



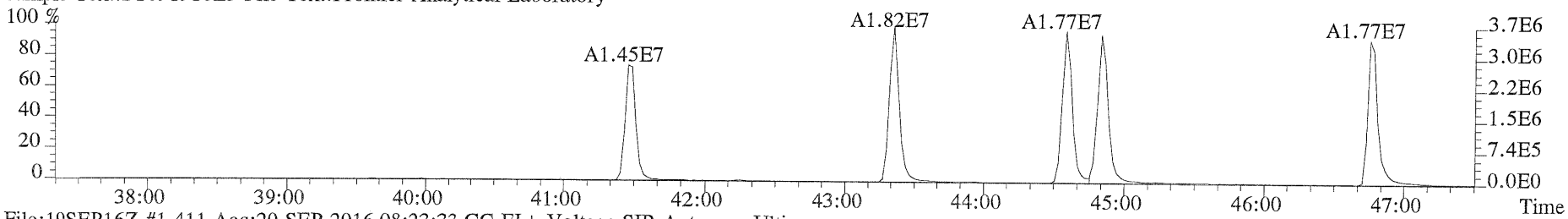
File:19SEP16Z #1-411 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



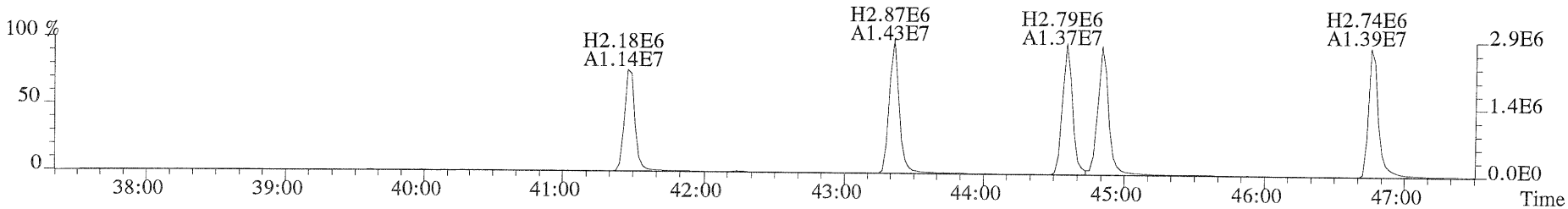
File:19SEP16Z #1-411 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



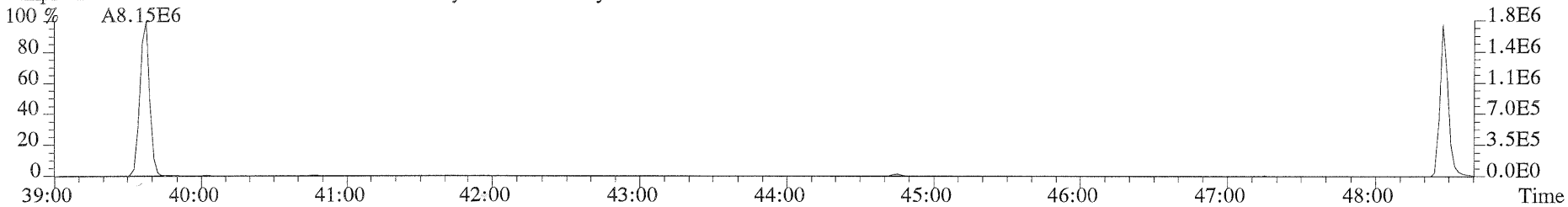
File:19SEP16Z #1-411 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



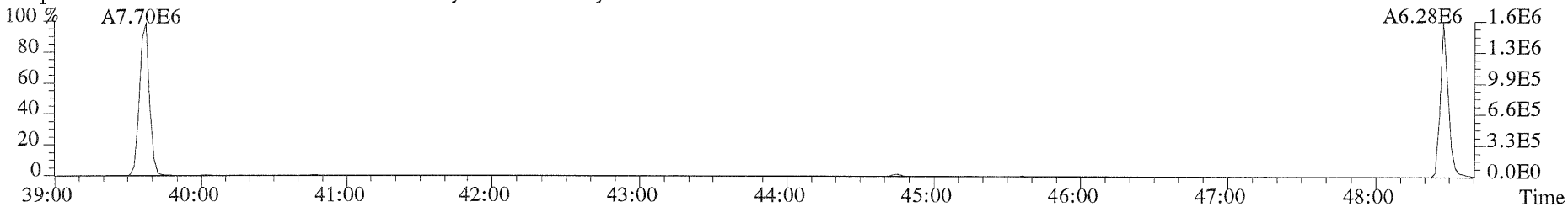
File:19SEP16Z #1-411 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



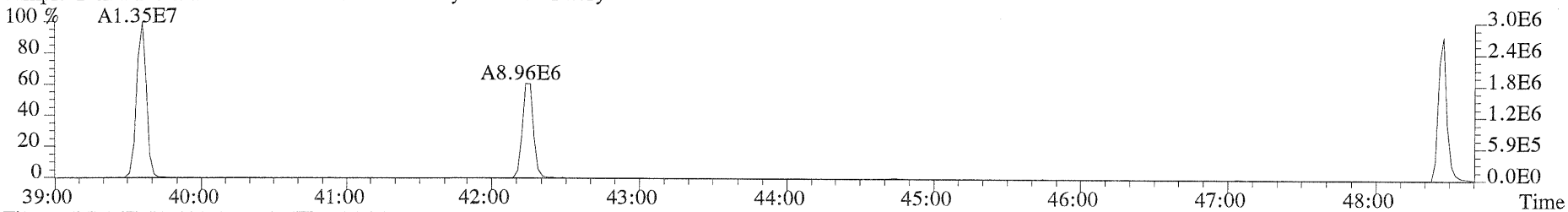
File:19SEP16Z #1-411 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



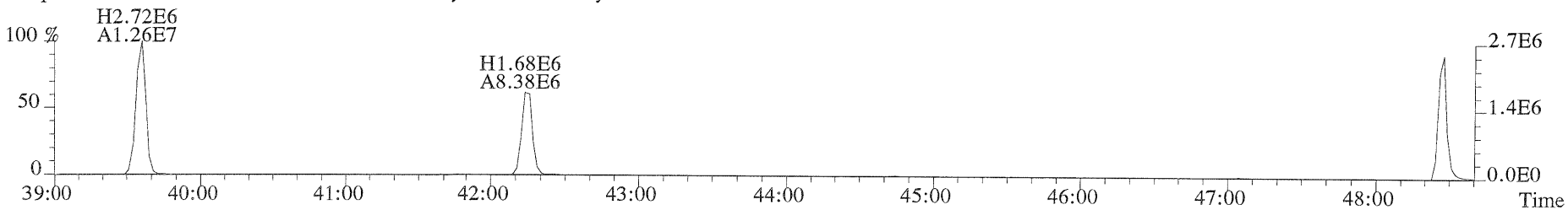
File:19SEP16Z #1-411 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



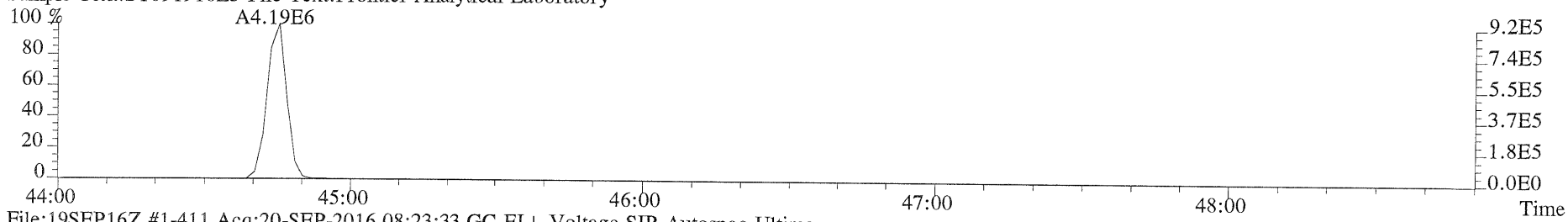
File:19SEP16Z #1-411 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



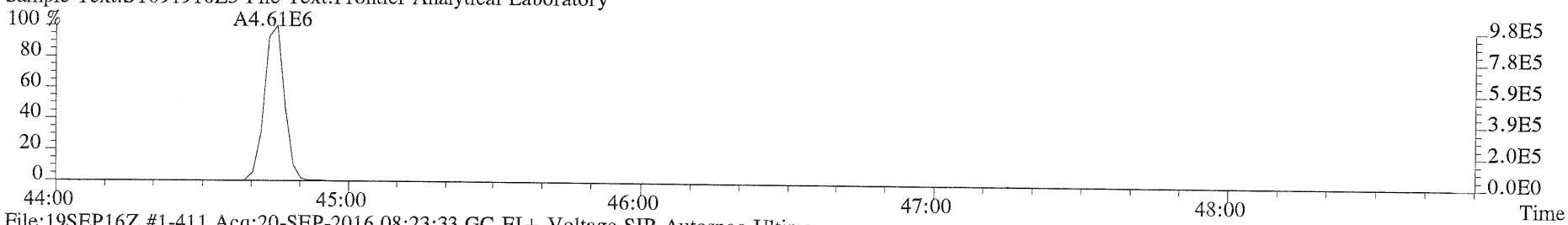
File:19SEP16Z #1-411 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



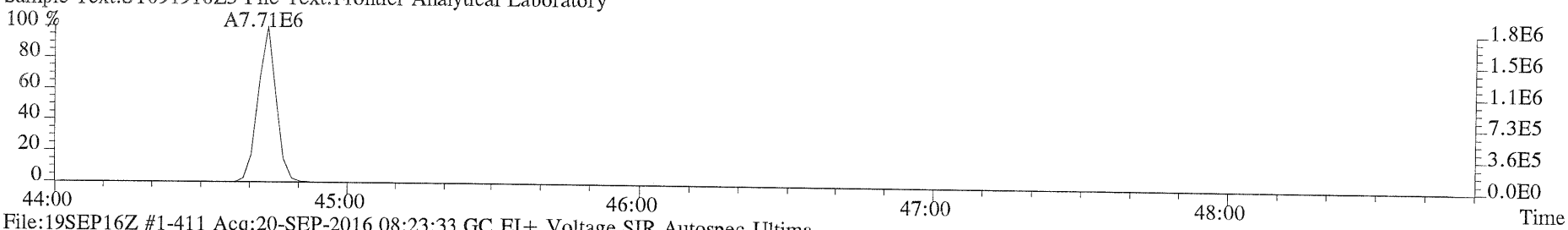
File:19SEP16Z #1-411 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



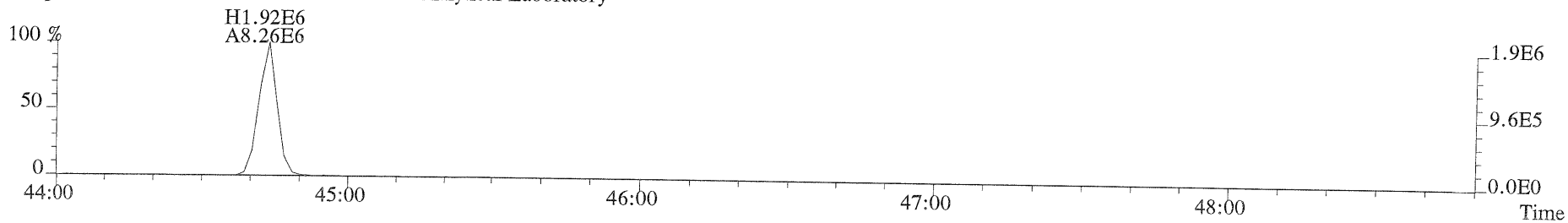
File:19SEP16Z #1-411 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



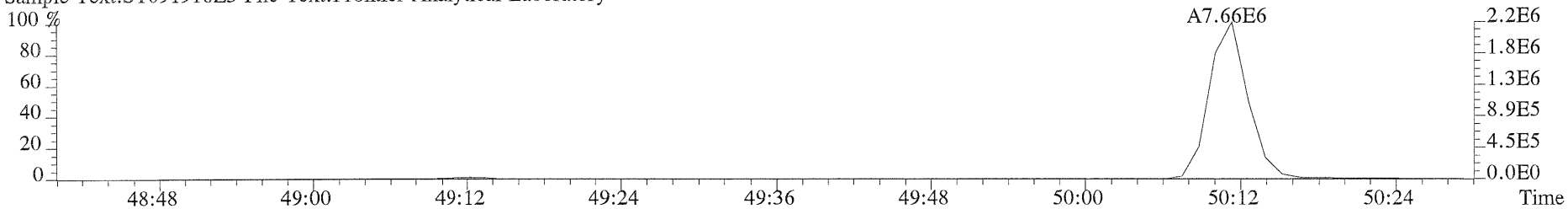
File:19SEP16Z #1-411 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



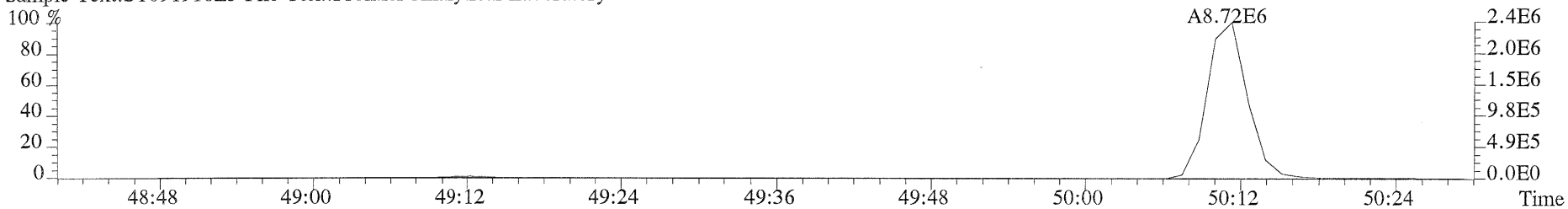
File:19SEP16Z #1-411 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



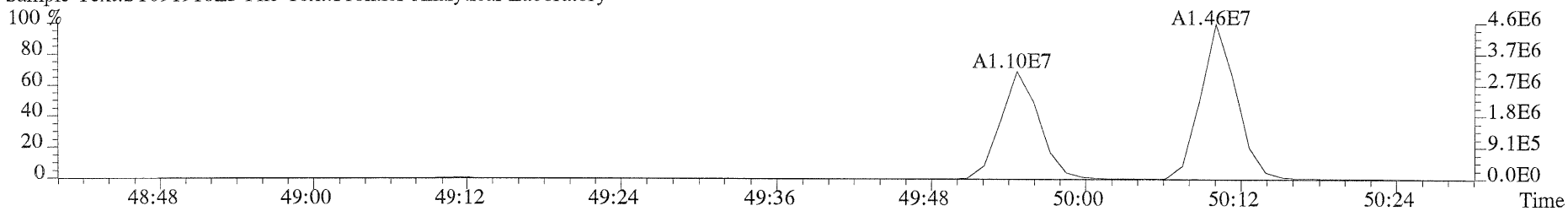
File:19SEP16Z #1-221 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



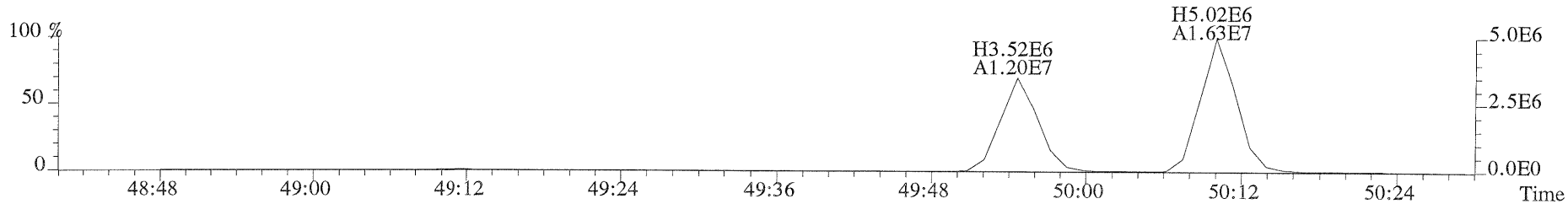
File:19SEP16Z #1-221 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



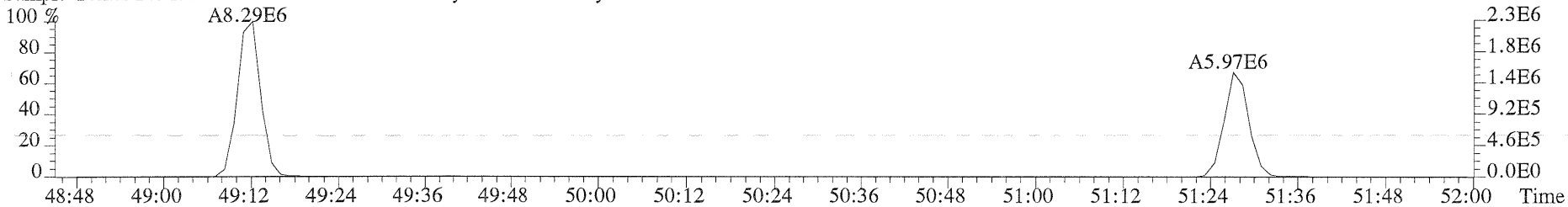
File:19SEP16Z #1-221 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



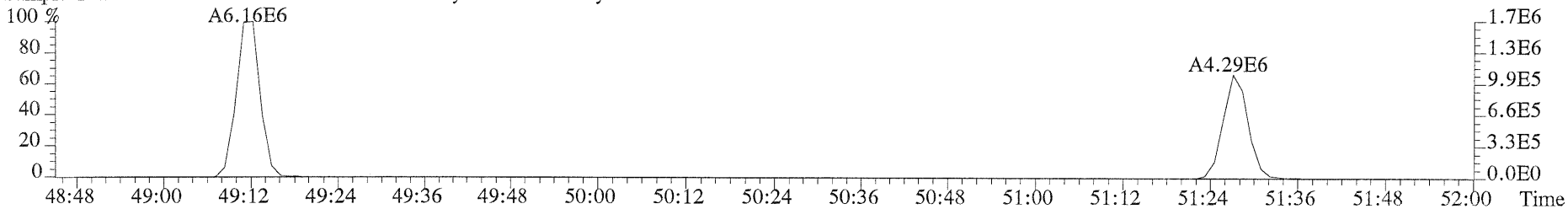
File:19SEP16Z #1-221 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



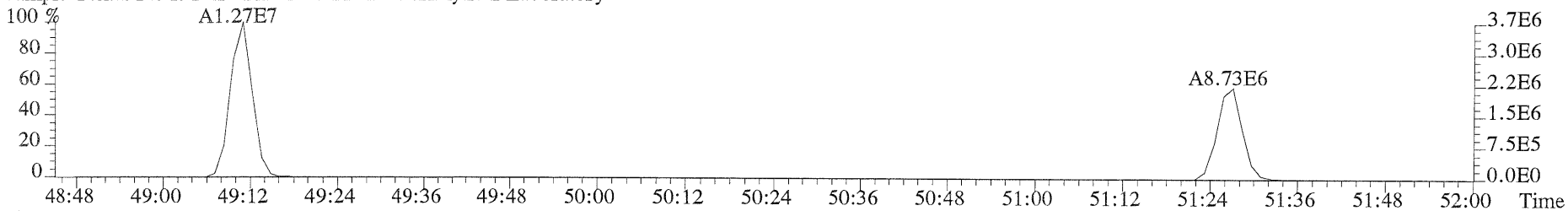
File:19SEP16Z #1-221 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



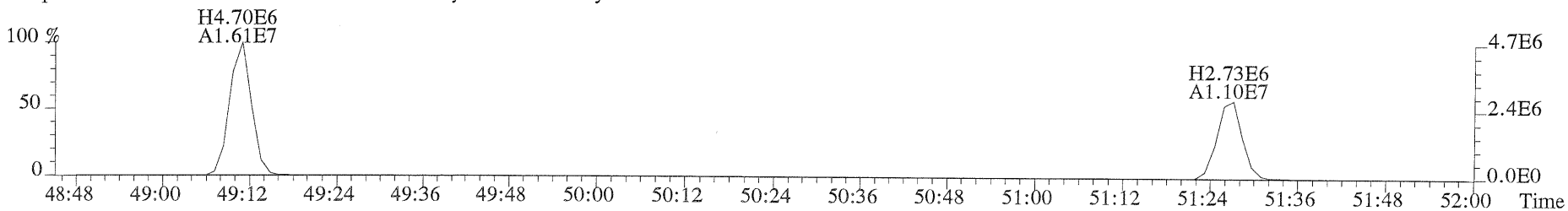
File:19SEP16Z #1-221 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



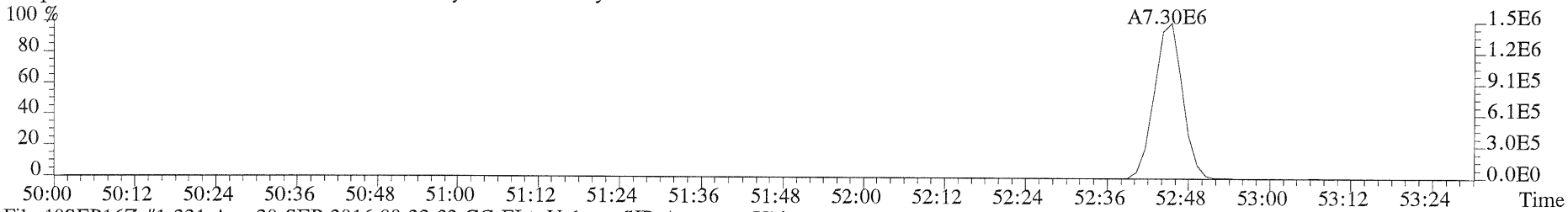
File:19SEP16Z #1-221 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



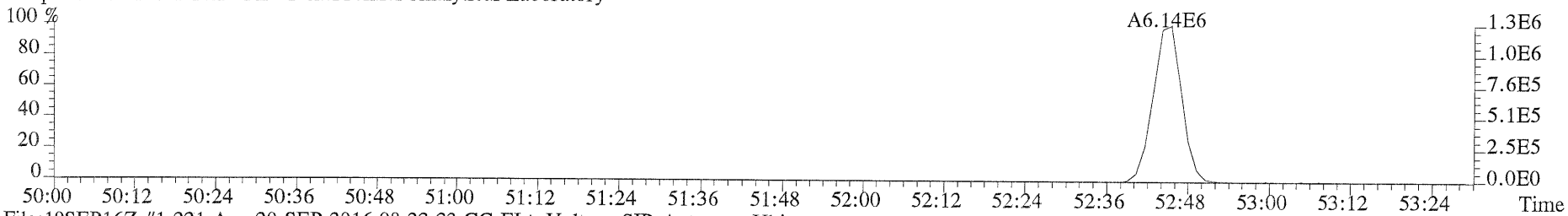
File:19SEP16Z #1-221 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



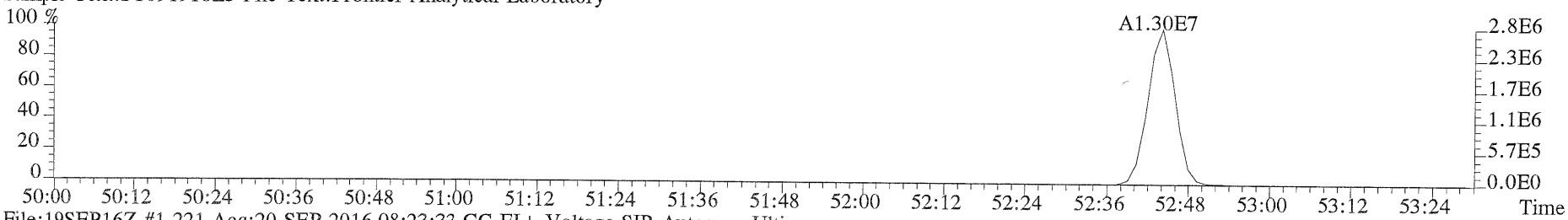
File:19SEP16Z #1-221 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



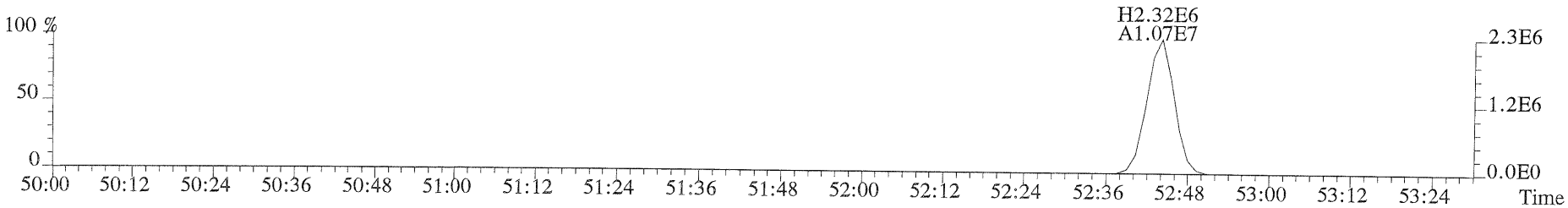
File:19SEP16Z #1-221 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory



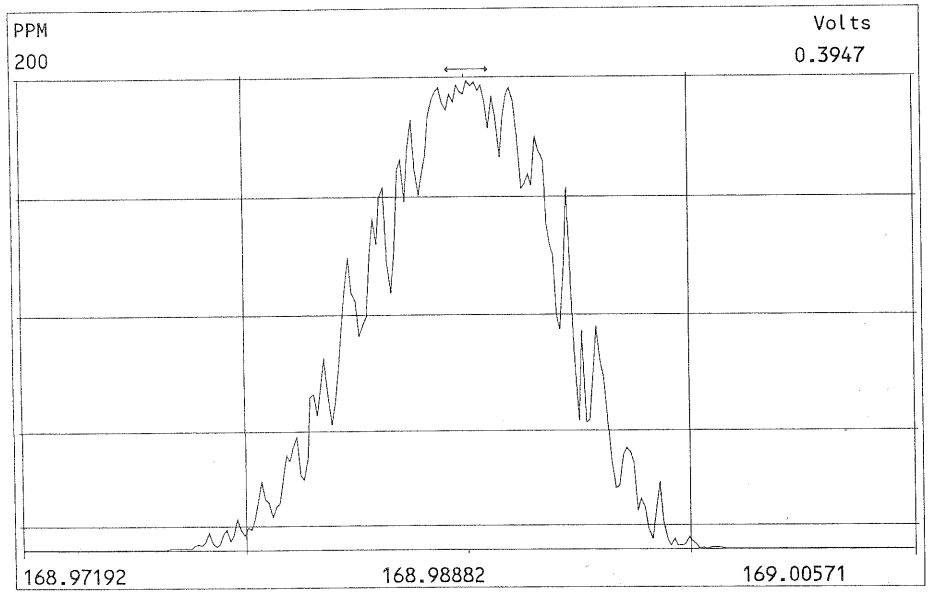
File:19SEP16Z #1-221 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory

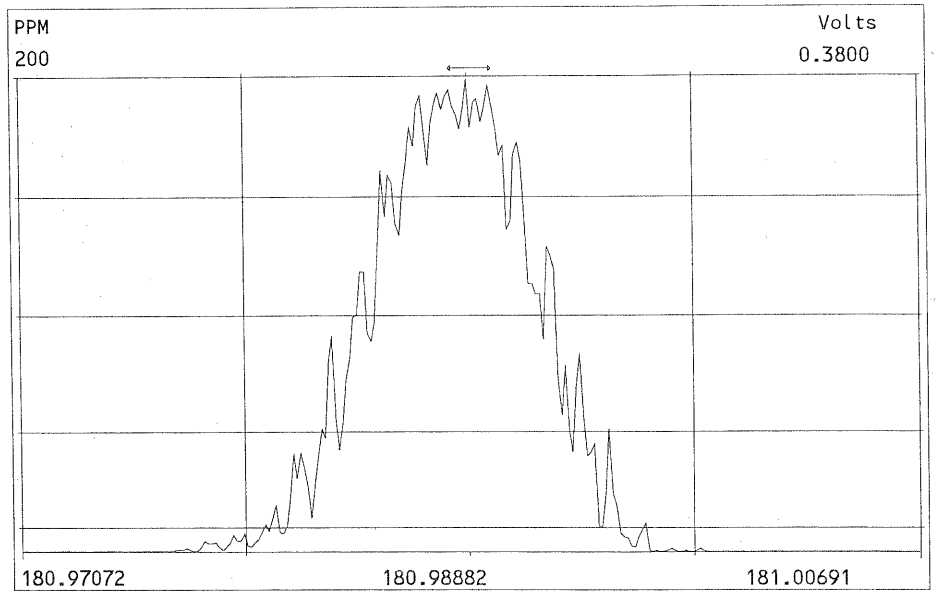


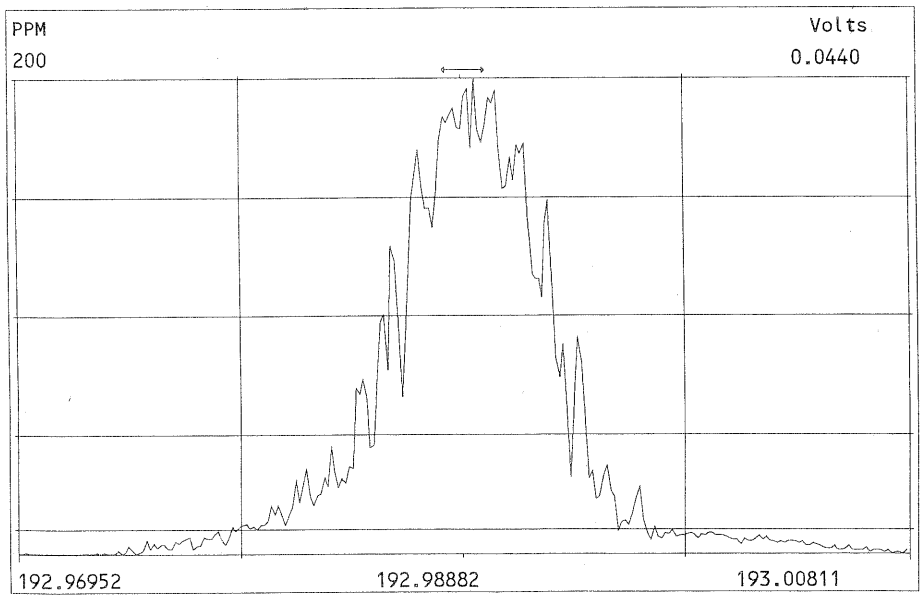
File:19SEP16Z #1-221 Acq:20-SEP-2016 08:23:33 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST091916Z3 File Text:Frontier Analytical Laboratory

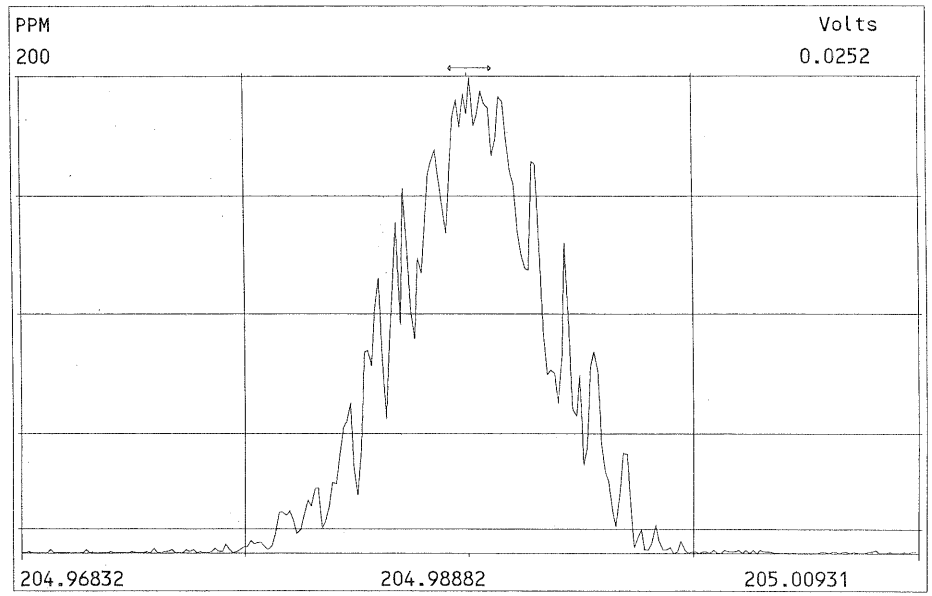


Peak Locate Examination:20-SEP-2016:09:21 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

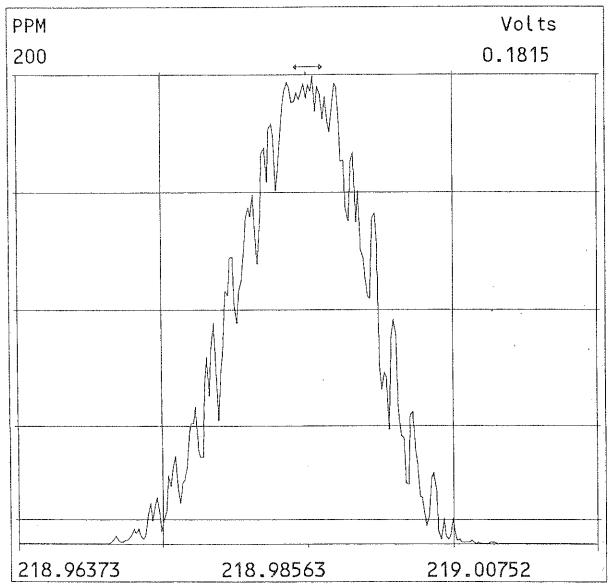


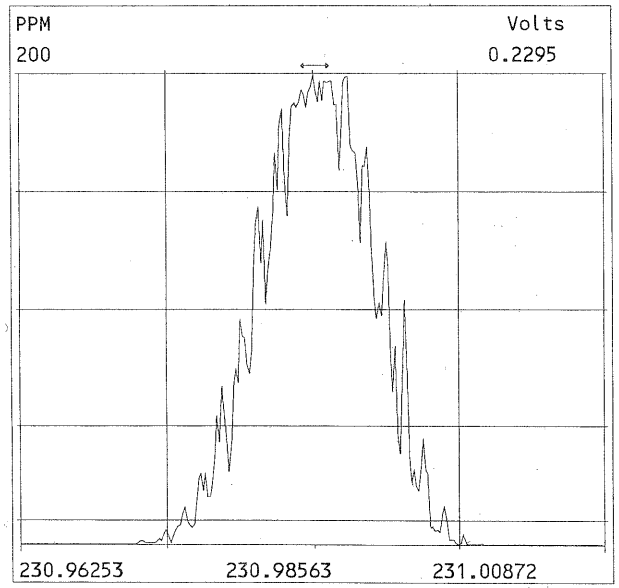


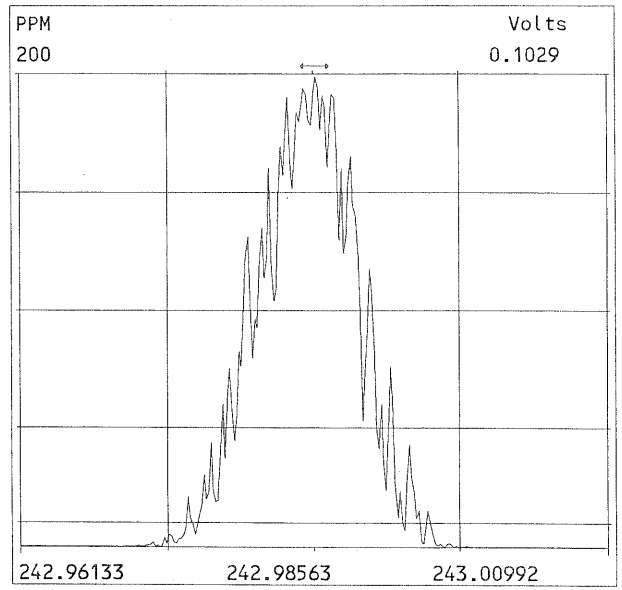


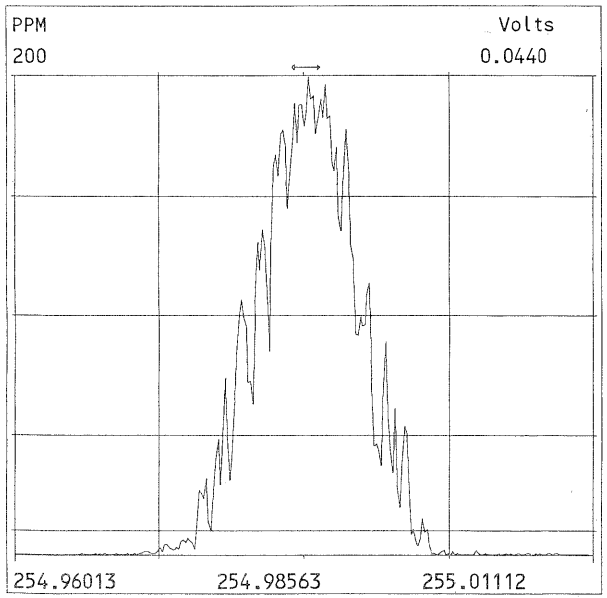


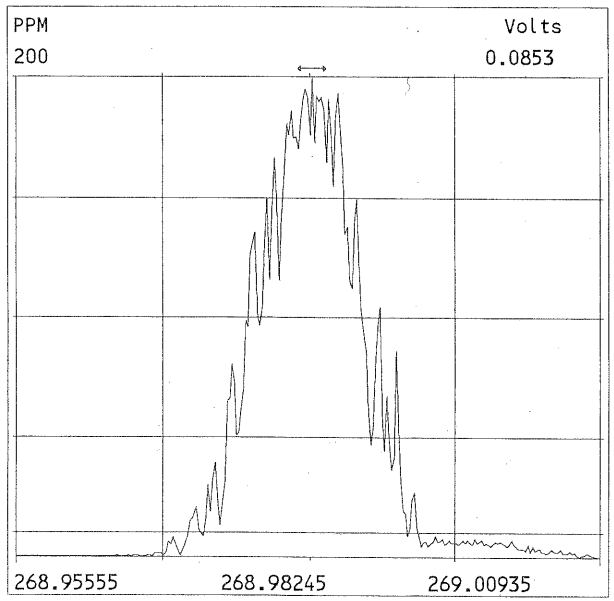
Peak Locate Examination:20-SEP-2016:09:22 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

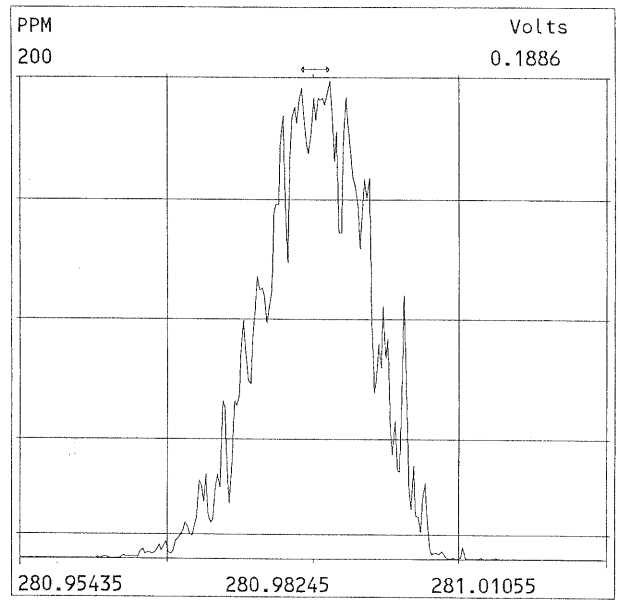




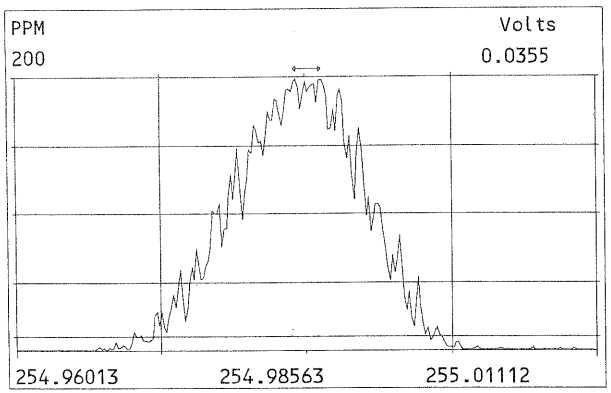


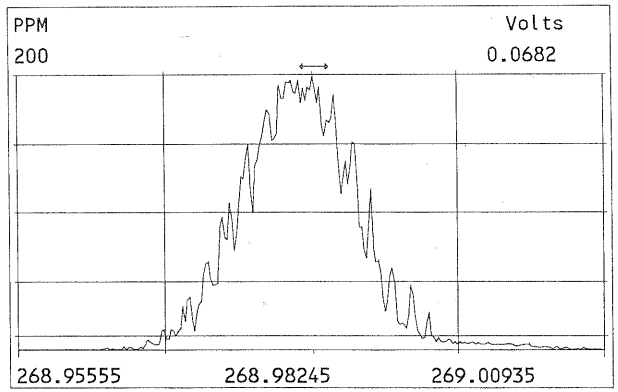


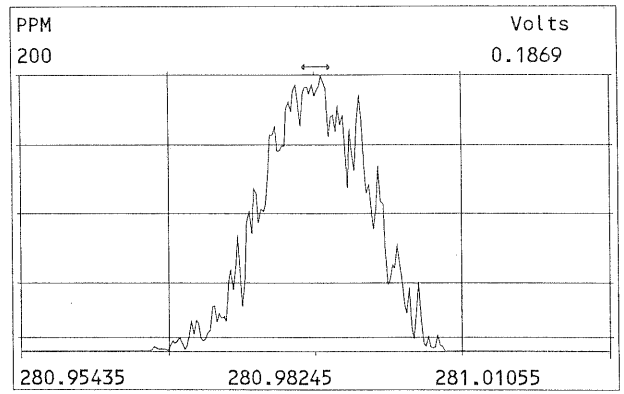


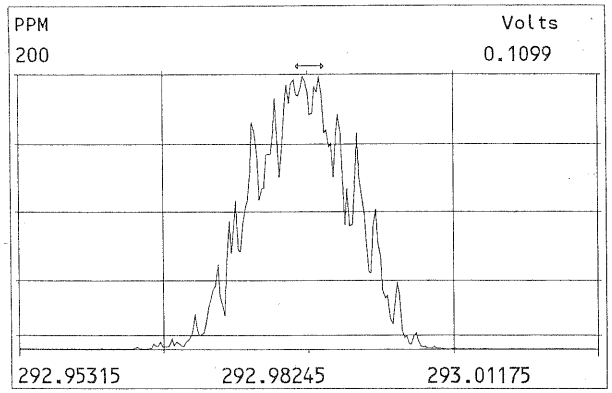


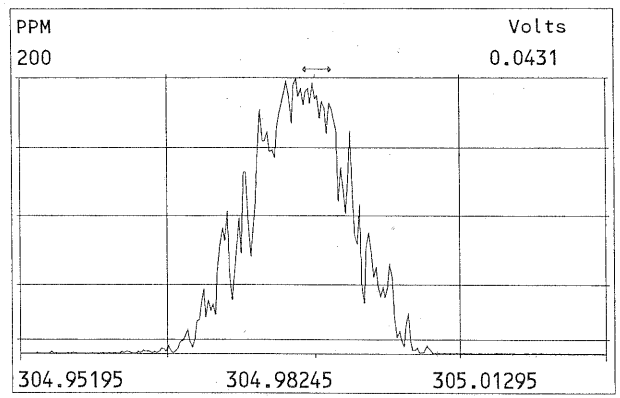
Peak Locate Examination:20-SEP-2016:09:22 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

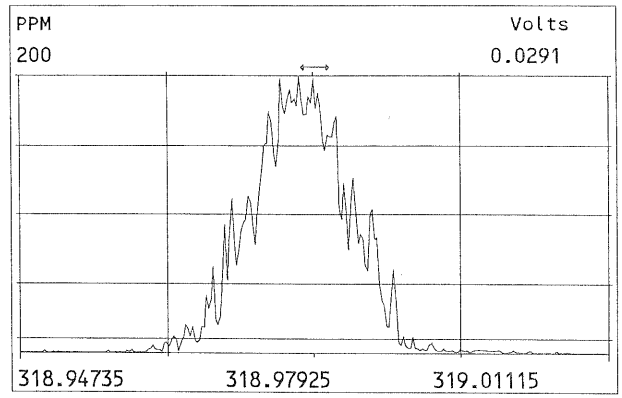


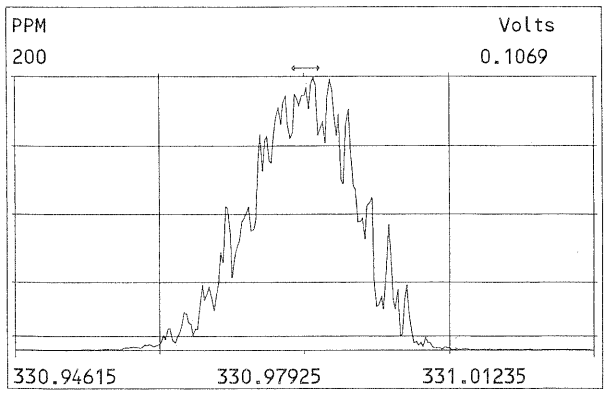


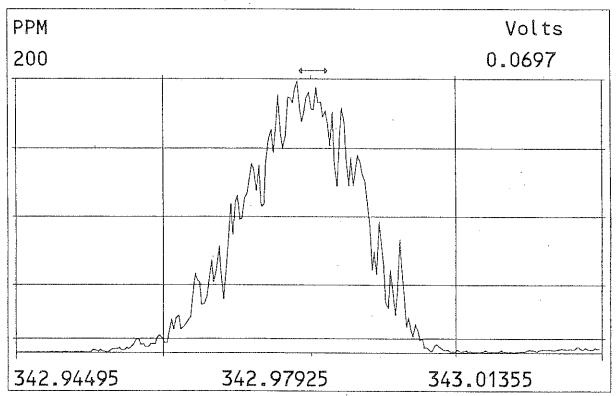




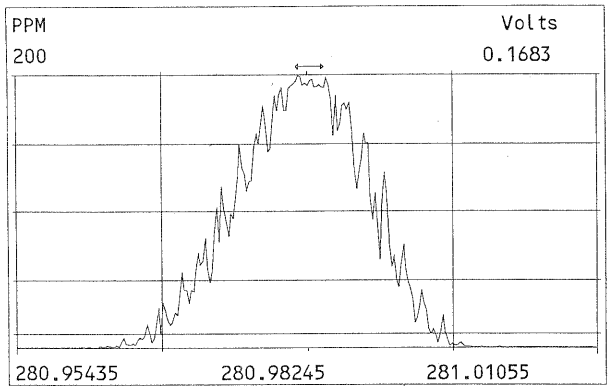


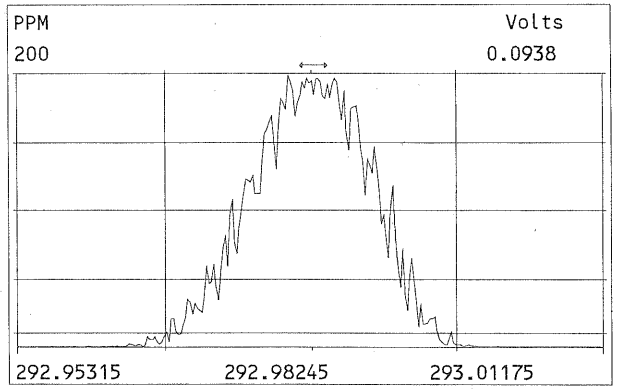


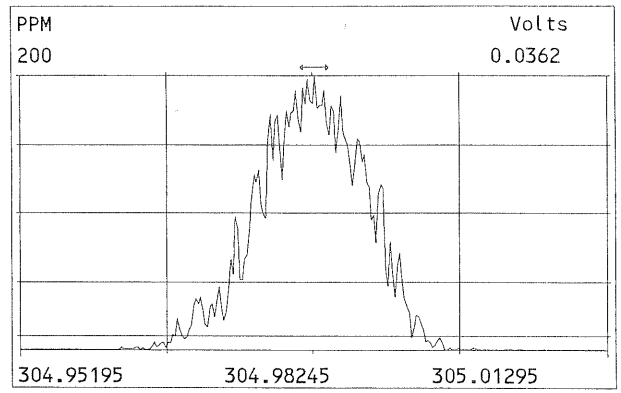


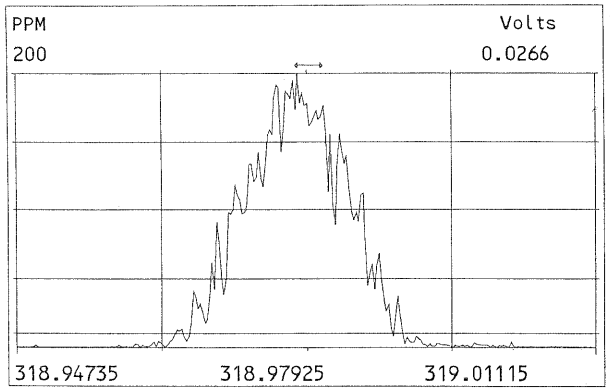


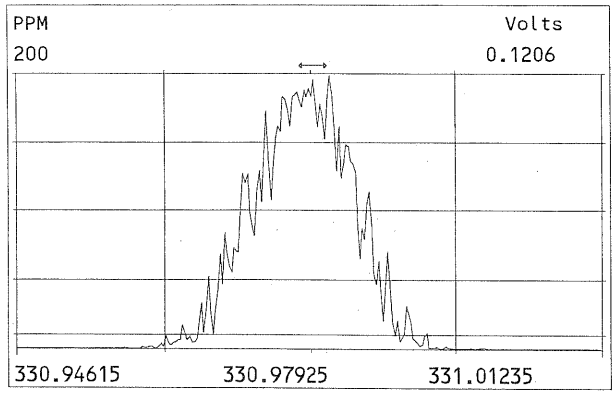
Peak Locate Examination:20-SEP-2016:09:23 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

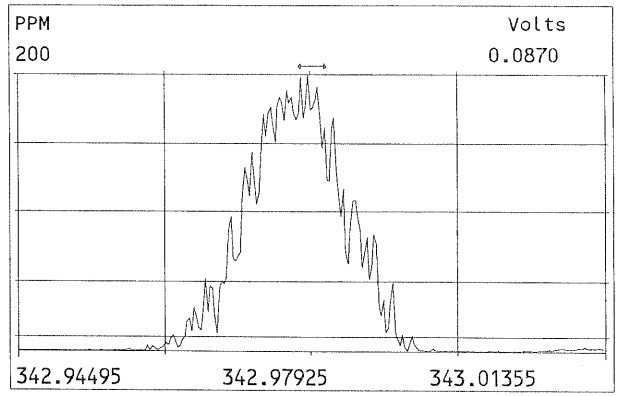


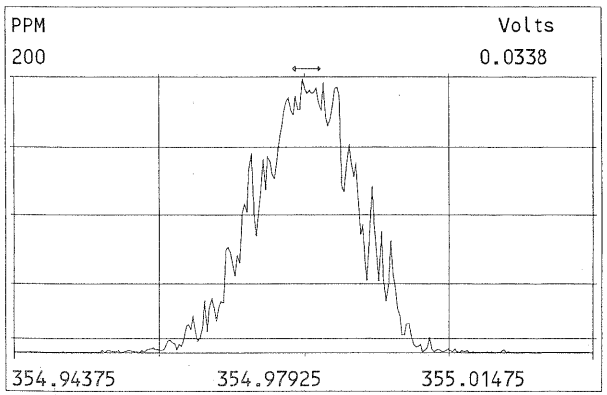


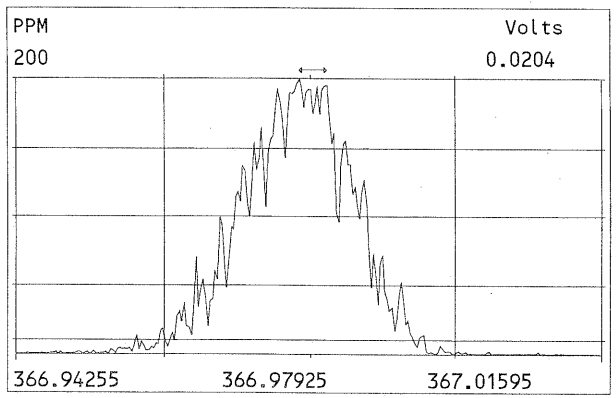


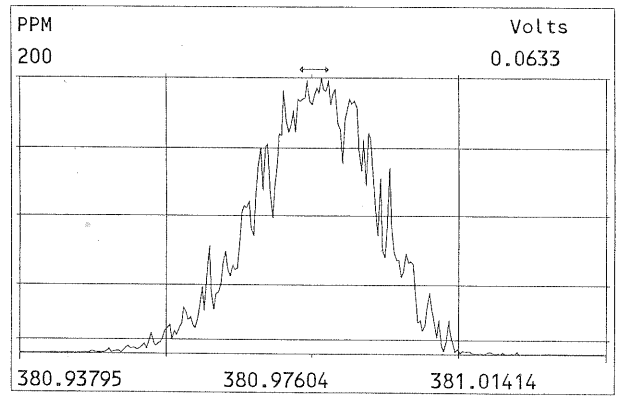




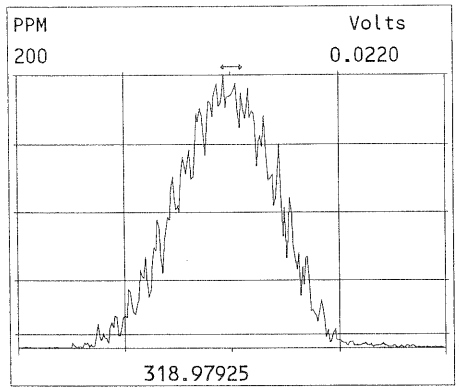


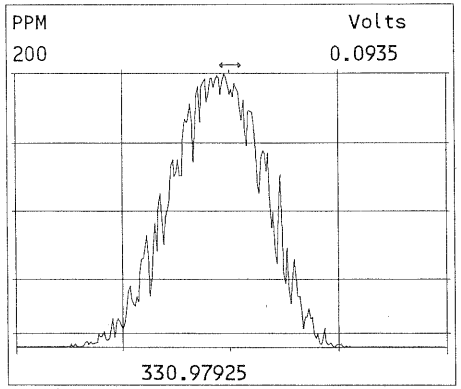


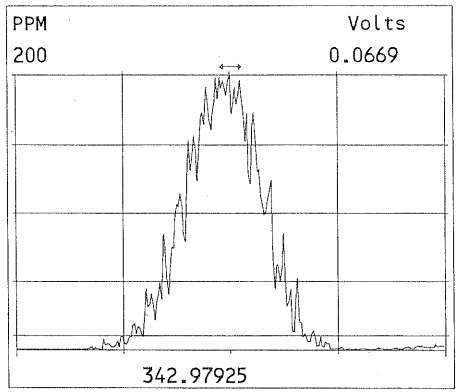


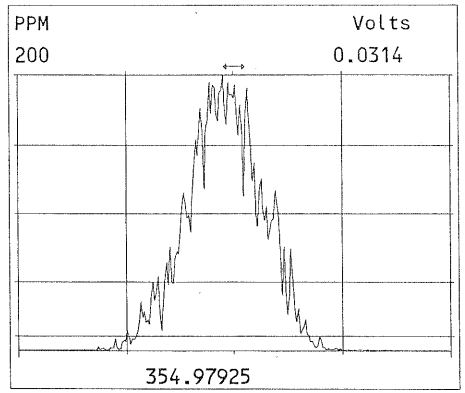


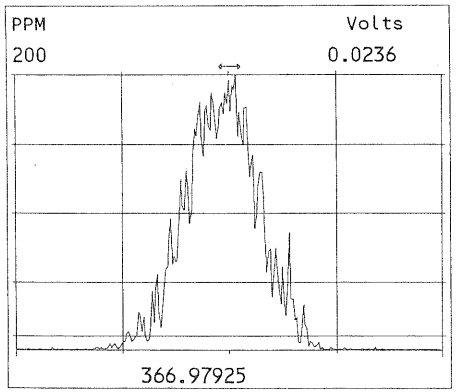
Peak Locate Examination:20-SEP-2016:09:24 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

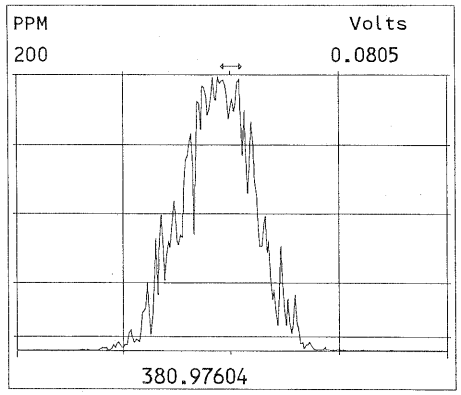


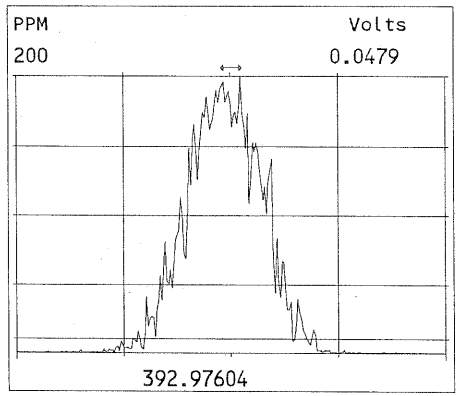


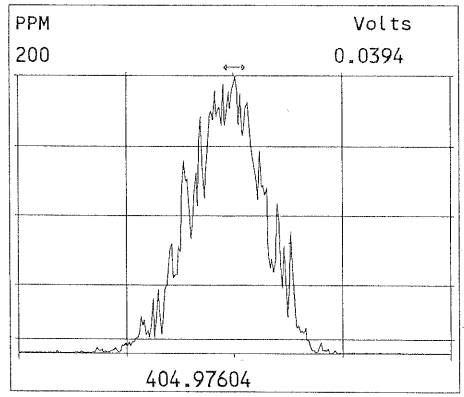


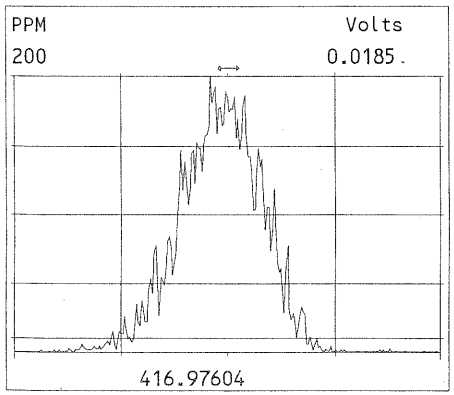


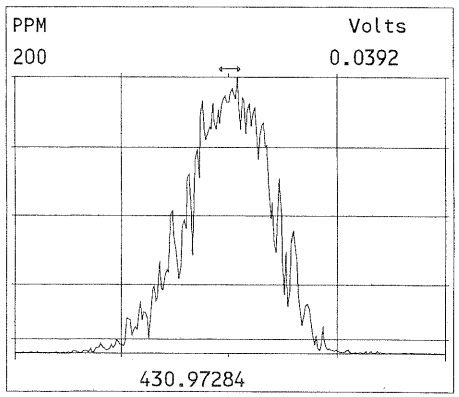


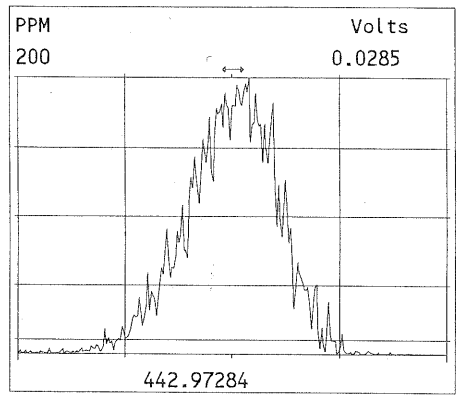




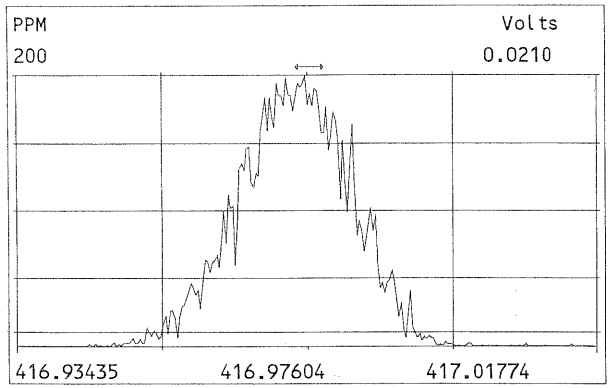


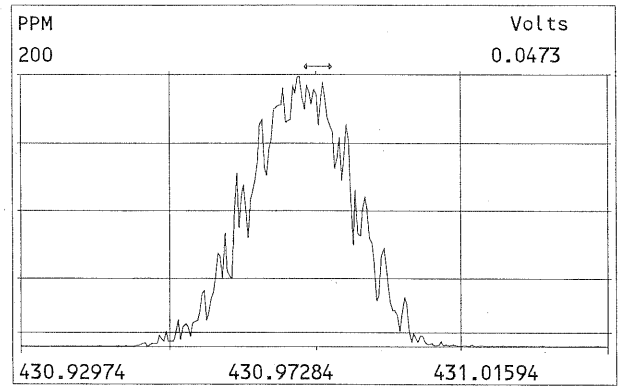


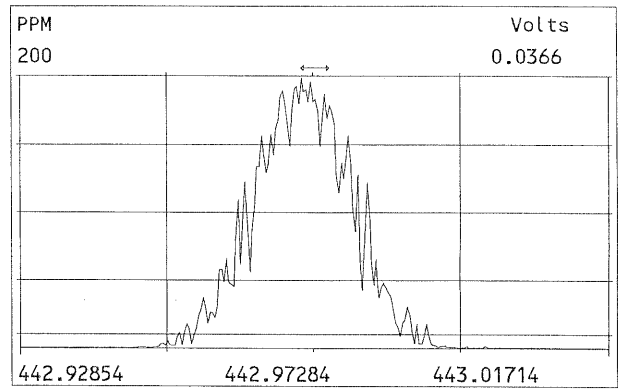


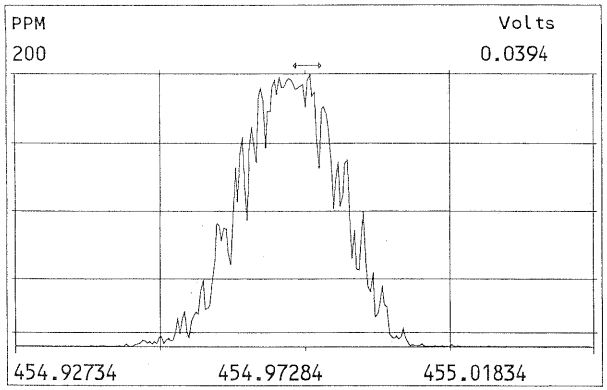


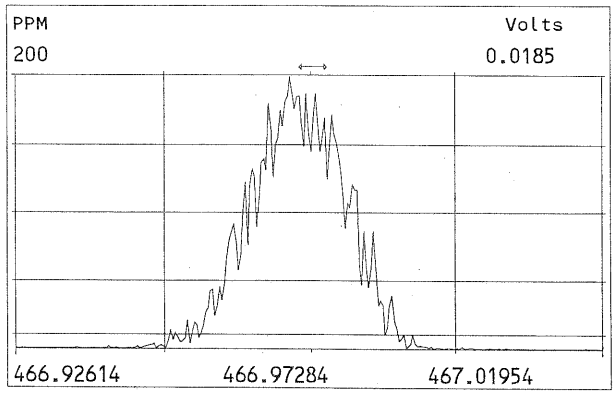
Peak Locate Examination:20-SEP-2016:09:24 File:19SEP16Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

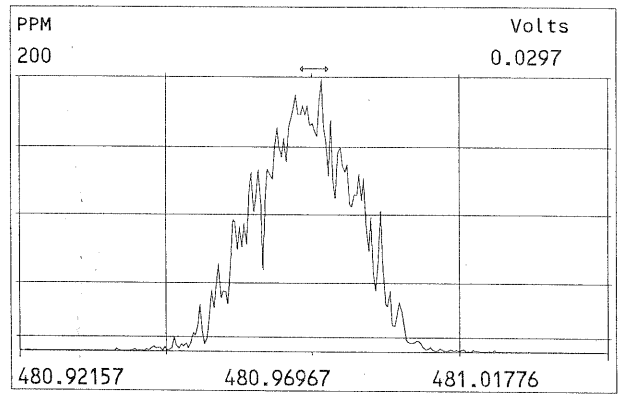


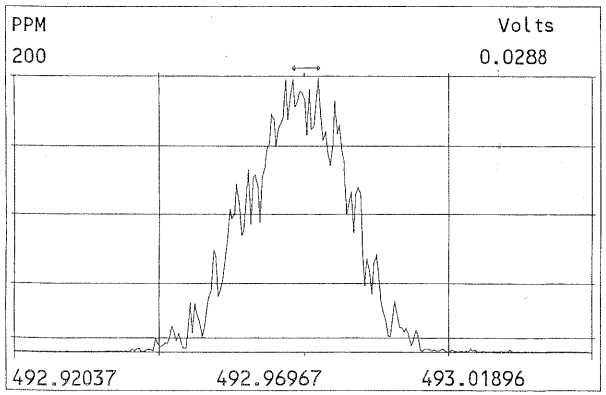


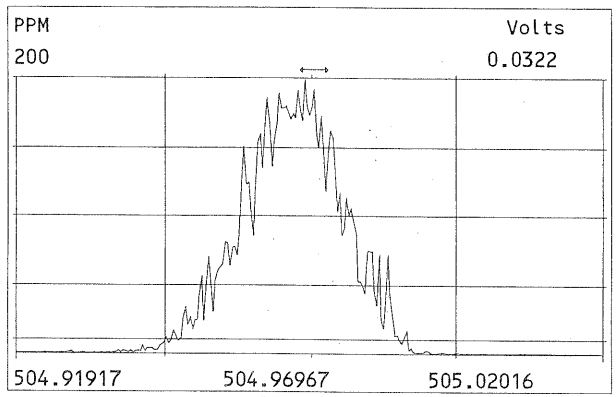


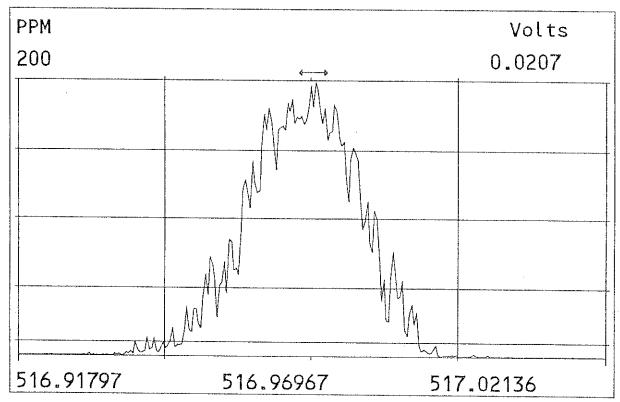












USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 21SEP16Z Sam:1 Analysis Date: 21-SEP-16 15:53:42

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.11	2.66-3.60	y	45.4	37.5 - 62.5
PCB-3	M/M+2	3.24	2.66-3.60	y	48.0	37.5 - 62.5
PCB-4	M/M+2	1.46	1.33-1.79	y	46.8	37.5 - 62.5
PCB-15	M/M+2	1.60	1.33-1.79	y	46.6	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	43.9	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	53.1	37.5 - 62.5
PCB-54	M/M+2	0.77	0.65-0.89	y	48.7	37.5 - 62.5
PCB-77	M/M+2	0.75	0.65-0.89	y	46.9	37.5 - 62.5
PCB-81	M/M+2	0.75	0.65-0.89	y	47.1	37.5 - 62.5
PCB-104	M+2/M+4	1.57	1.32-1.78	y	48.0	37.5 - 62.5
PCB-105	M+2/M+4	1.47	1.32-1.78	y	46.8	37.5 - 62.5
PCB-114	M+2/M+4	1.42	1.32-1.78	y	45.9	37.5 - 62.5
PCB-118	M+2/M+4	1.46	1.32-1.78	y	47.0	37.5 - 62.5
PCB-123	M+2/M+4	1.46	1.32-1.78	y	49.9	37.5 - 62.5
PCB-126	M+2/M+4	1.51	1.32-1.78	y	46.2	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	46.4	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	48.1	37.5 - 62.5
PCB-157	M+2/M+4	1.25	1.05-1.43	y	50.0	37.5 - 62.5
PCB-167	M+2/M+4	1.23	1.05-1.43	y	49.6	37.5 - 62.5
PCB-169	M+2/M+4	1.26	1.05-1.43	y	48.9	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	50.3	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	47.2	37.5 - 62.5
PCB-202	M+2/M+4	0.90	0.76-1.02	y	46.6	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	52.2	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	53.8	37.5 - 62.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	52.5	37.5 - 62.5
PCB-209	M+4/M+6	1.17	0.99-1.33	y	47.7	37.5 - 62.5

Analyst: _____ Date: 9/22/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 21SEP16Z Sam:1 Analysis Date: 21-SEP-16 15:53:42

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.08	2.66-3.60	y	112	50.0 - 145
13C-PCB-3	M/M+2	2.99	2.66-3.60	y	97.6	50.0 - 145
13C-PCB-4	M/M+2	1.56	1.33-1.79	y	104	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	89.9	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	124	50.0 - 145
13C-PCB-37	M/M+2	1.05	0.88-1.20	y	62.7	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	95.8	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	77.0	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	76.4	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	110	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	88.3	50.0 - 145
13C-PCB-114	M+2/M+4	1.57	1.32-1.78	y	87.5	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	90.4	50.0 - 145
13C-PCB-123	M+2/M+4	1.58	1.32-1.78	y	84.3	50.0 - 145
13C-PCB-126	M+2/M+4	1.59	1.32-1.78	y	82.5	50.0 - 145
13C-PCB-155	M+2/M+4	1.27	1.05-1.43	y	117	50.0 - 145
13C-PCB-156	M+2/M+4	1.27	1.05-1.43	y	92.1	50.0 - 145
13C-PCB-157	M+2/M+4	1.23	1.05-1.43	y	96.5	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	94.8	50.0 - 145
13C-PCB-169	M+2/M+4	1.24	1.05-1.43	y	92.5	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	112	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	105	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	137	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	94.7	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	96.5	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	1.18	0.99-1.33	y	108	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.09	0.88-1.20	y	74.5	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	101	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	121	75.0 - 125

Analyst: [signature] Date: 9/22/16

FAL ID: ST092116Z1 Filename: 21SEP16Z Sam:1 Acquired: 21-SEP-16 15:53:42 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R160816B ConCal: ST092116Z1 EndCal: ST092116Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.78e+07	3.11 y	14:30	1.05	45.4		2.50	-	-	*	-
13C-PCB-1	7.93e+07	3.08 y	14:30	1.14	112		2.50				112
PCB-3	3.38e+07	3.24 y	16:59	1.05	48.0		2.50	-	-	*	-
13C-PCB-3	6.72e+07	2.99 y	16:58	1.11	97.6		2.50				97.6
PCB-4	2.32e+07	1.46 y	18:11	1.14	46.8		2.50	-	-	*	-
13C-PCB-4	4.36e+07	1.56 y	18:10	0.68	104		2.50				104
PCB-15	2.91e+07	1.60 y	23:47	1.09	46.6		2.50	-	-	*	-
13C-PCB-15	5.72e+07	1.60 y	23:46	1.02	89.9		2.50				89.9
PCB-19	2.41e+07	1.04 y	22:05	1.16	43.9		2.50	-	-	*	-
13C-PCB-19	4.72e+07	1.08 y	22:03	0.61	124		2.50				124
13C-PCB-9	6.22e+07	1.61 y	19:52	-	45.5		2.50				
PCB-37	2.35e+07	1.05 y	30:27	1.14	53.1		2.50	-	-	*	-
13C-PCB-37	3.88e+07	1.05 y	30:26	1.38	62.7		2.50				62.7
PCB-54	2.75e+07	0.77 y	25:37	1.05	48.7		2.50	-	-	*	-
13C-PCB-54	5.39e+07	0.79 y	25:35	1.25	95.8		2.50				95.8
PCB-104	2.47e+07	1.57 y	30:03	1.14	48.0		2.50	-	-	*	-
13C-PCB-104	4.51e+07	1.59 y	30:02	0.91	110		2.50				110
13C-PCB-28	4.96e+07	1.09 y	26:42	1.48	74.5		2.50				74.5
13C-PCB-52	4.49e+07	0.78 y	28:56	-	53.9		2.50				
PCB-81	2.00e+07	0.75 y	36:12	1.14	47.1		2.50	-	-	*	-
13C-PCB-81	3.71e+07	0.81 y	36:11	1.27	76.4		2.50				76.4
PCB-77	1.93e+07	0.75 y	36:46	1.10	46.9		2.50	-	-	*	-
13C-PCB-77	3.75e+07	0.81 y	36:45	1.27	77.0		2.50				77.0
PCB-155	2.50e+07	1.28 y	34:12	1.11	46.4		2.50	-	-	*	-
13C-PCB-155	4.86e+07	1.27 y	34:11	1.09	117		2.50				117
13C-PCB-111	4.83e+07	1.60 y	36:17	1.25	101		2.50				101
13C-PCB-101	3.83e+07	1.61 y	34:39	-	52.4		2.50				
PCB-123	1.73e+07	1.46 y	38:22	1.05	49.9		2.50	-	-	*	-
13C-PCB-123	3.29e+07	1.58 y	38:20	1.20	84.3		2.50				84.3
PCB-118	1.93e+07	1.46 y	38:32	1.07	47.0		2.50	-	-	*	-
13C-PCB-118	3.85e+07	1.58 y	38:30	1.31	90.4		2.50				90.4
PCB-114	1.74e+07	1.42 y	39:09	1.08	45.9		2.50	-	-	*	-
13C-PCB-114	3.50e+07	1.57 y	39:08	1.23	87.5		2.50				87.5
PCB-105	1.80e+07	1.47 y	39:59	1.08	46.8		2.50	-	-	*	-
13C-PCB-105	3.56e+07	1.59 y	39:57	1.24	88.3		2.50				88.3
PCB-126	1.55e+07	1.51 y	42:09	1.07	46.2		2.50	-	-	*	-
13C-PCB-126	3.14e+07	1.59 y	42:07	1.17	82.5		2.50				82.5
PCB-167	1.86e+07	1.23 y	43:28	0.98	49.6		2.50	-	-	*	-
13C-PCB-167	3.82e+07	1.28 y	43:26	1.24	94.8		2.50				94.8
PCB-156	1.72e+07	1.25 y	44:42	1.01	48.1		2.50	-	-	*	-
13C-PCB-156	3.53e+07	1.27 y	44:40	1.18	92.1		2.50				92.1
PCB-157	1.85e+07	1.25 y	44:57	0.96	50.0		2.50	-	-	*	-
13C-PCB-157	3.83e+07	1.23 y	44:55	1.22	96.5		2.50				96.5
PCB-169	1.62e+07	1.26 y	46:52	1.00	48.9		2.50	-	-	*	-
13C-PCB-169	3.33e+07	1.24 y	46:50	1.11	92.5		2.50				92.5
PCB-188	2.45e+07	1.05 y	39:42	1.09	50.3		2.50	-	-	*	-
13C-PCB-188	4.46e+07	1.07 y	39:41	1.22	112		2.50				112
PCB-189	1.77e+07	1.05 y	48:32	1.14	47.2		2.50	-	-	*	-
13C-PCB-189	3.30e+07	1.07 y	48:31	0.97	105		2.50				105
PCB-202	1.92e+07	0.90 y	44:50	1.05	46.6		2.50	-	-	*	-
13C-PCB-202	3.91e+07	0.90 y	44:49	0.88	137		2.50				137
13C-PCB-178	3.03e+07	1.08 y	42:20	0.77	121		2.50				121
13C-PCB-138	3.25e+07	1.26 y	41:34	-	46.5		2.50				

FAL ID: ST092116Z1 Filename: 21SEP16Z Sam:1 Acquired: 21-SEP-16 15:53:42 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R160816B ConCal: ST092116Z1 EndCal: ST092116Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	1.54e+07	0.90	y	50:15	1.02	52.2	2.50	-	-	*	-
13C-PCB-205	2.91e+07	0.90	y	50:14	1.38	94.7	2.50				94.7
PCB-208	1.58e+07	1.34	y	49:15	0.93	52.5	2.50	-	-	*	-
13C-PCB-208	3.24e+07	0.80	y	49:14	1.31	111	2.50				111
PCB-206	1.10e+07	1.35	y	51:31	0.94	53.8	2.50	-	-	*	-
13C-PCB-206	2.17e+07	0.81	y	51:31	1.01	96.5	2.50				96.5
PCB-209	1.68e+07	1.17	y	52:48	1.10	47.7	2.50	-	-	*	-
13C-PCB-209	3.20e+07	1.18	y	52:47	1.34	108	2.50				108
13C-PCB-194	2.22e+07	0.91	y	49:57	-	44.1	2.50				

Analyst: _____ Date: 9/22/16

Frontier Analytical Laboratory - Acquisition Log

Run Name:21SEP16Z Instrument: FAL4 GC: DB1 Experiment:1668PCB

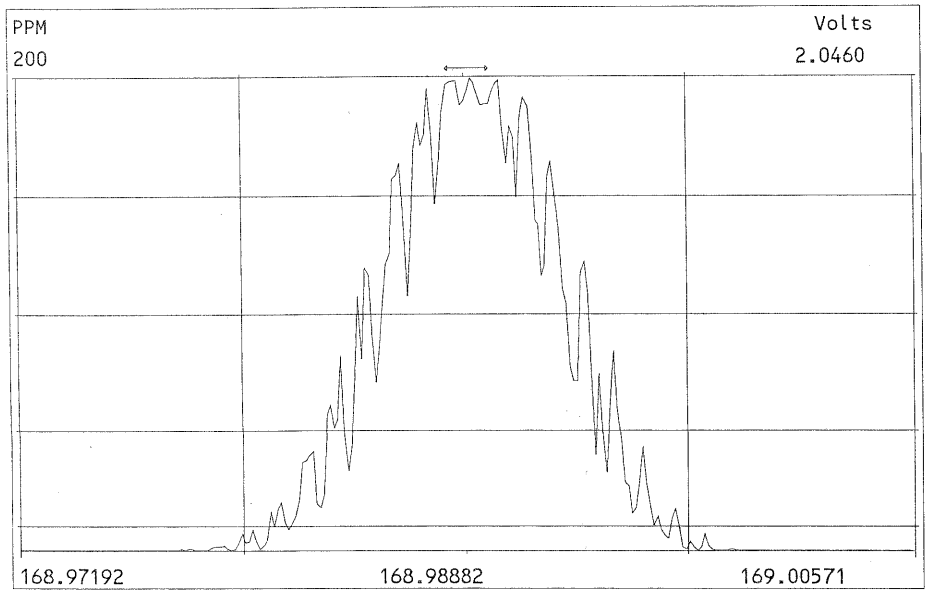
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
21SEP16Z	1	ST092116Z1	1668 CS3 R160816B	21-SEP-16 15:53:42	ST092116Z1	ST092116Z2	BS
21SEP16Z	2	SS092116Z1	Daily 209 160711B	21-SEP-16 16:53:12	ST092116Z1	ST092116Z2	BS
21SEP16Z	3	10146-002-0001-SA	LDW-BA-SC-ENR+AC-CB-S010	21-SEP-16 17:52:42	ST092116Z1	ST092116Z2	BS
21SEP16Z	4	10146-005-0001-SA	LDW-BA-SC-ENR-CB-S010	21-SEP-16 18:52:13	ST092116Z1	ST092116Z2	BS
21SEP16Z	5	10146-007-0001-SA	LDW-BA-IN-ENR+AC-CA-S010	21-SEP-16 19:51:45	ST092116Z1	ST092116Z2	BS
21SEP16Z	6	SB092116Z1	Solvent Blank	21-SEP-16 20:51:16	ST092116Z1	ST092116Z2	BS
21SEP16Z	7	ST092116Z2	1668 CS3 R160816B	21-SEP-16 21:50:46	ST092116Z1	ST092116Z2	BS

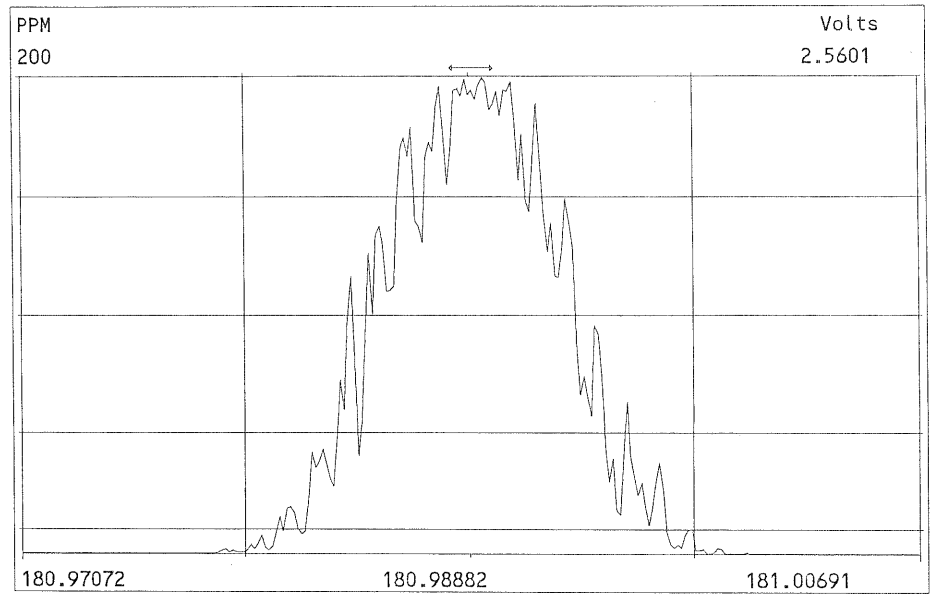
9/22/16

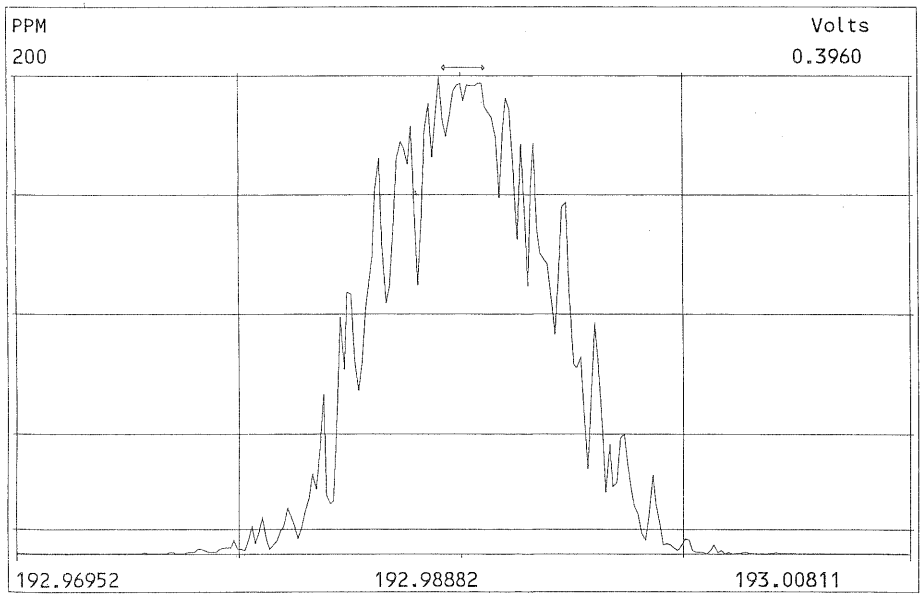
Data Backed Up:_____

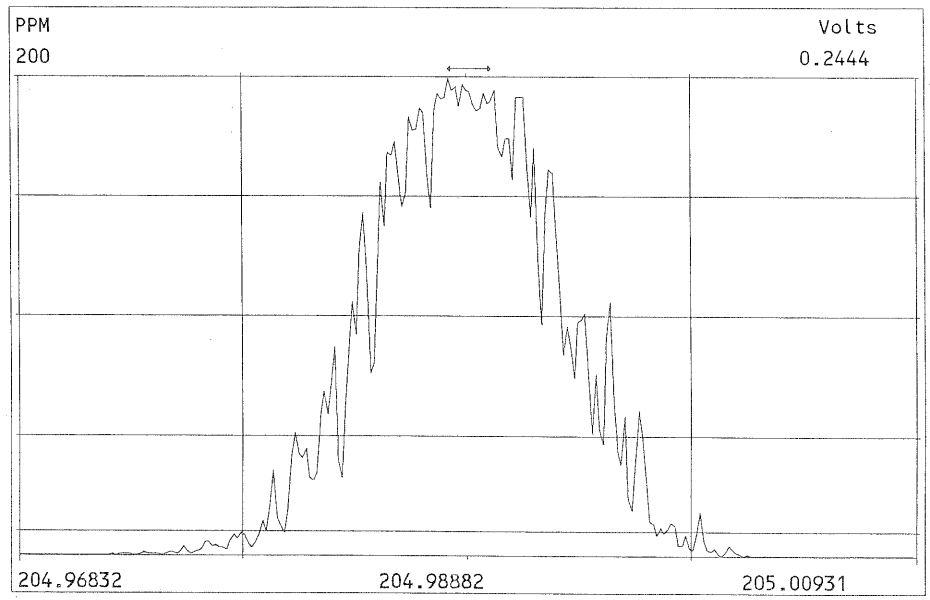
Date:_____

Peak Locate Examination:21-SEP-2016:15:50 File:21SEP16Z
Experiment:1668PCB Function:1 Reference:PFK

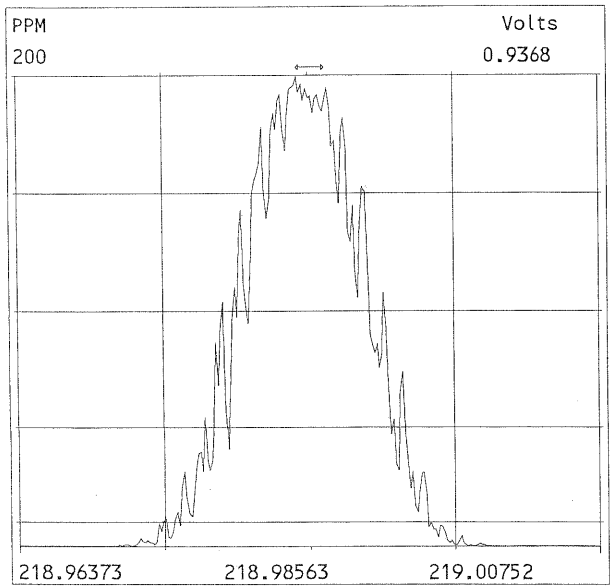


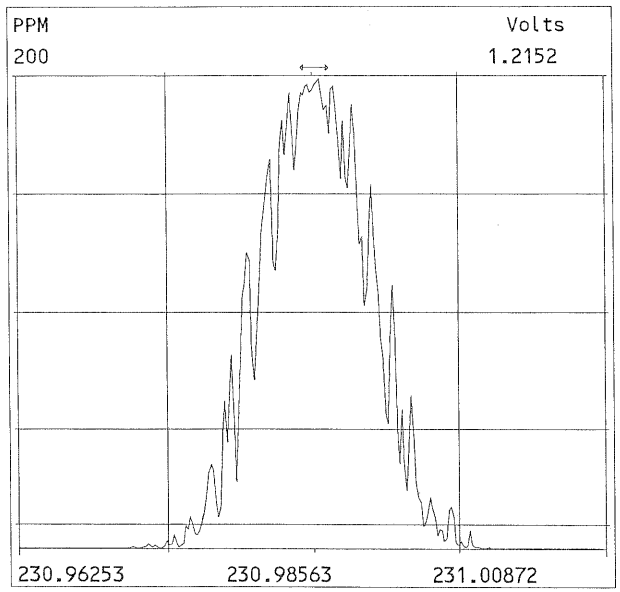


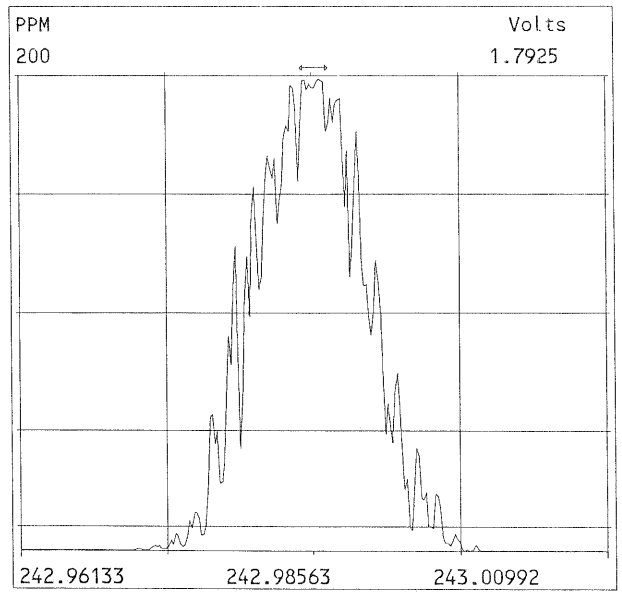


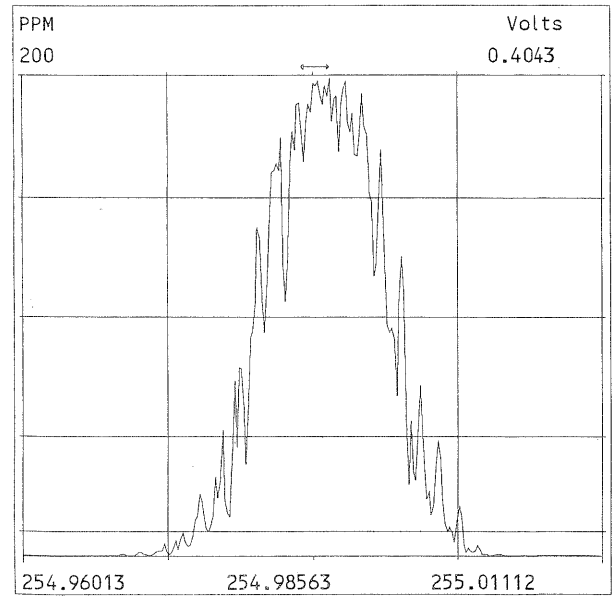


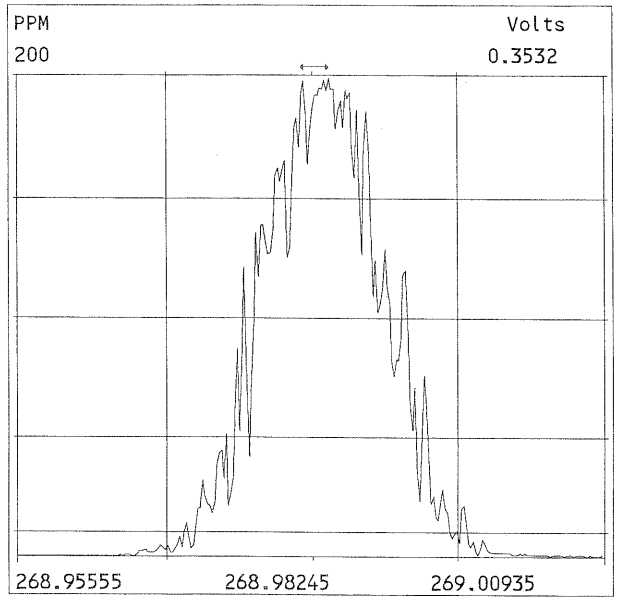
Peak Locate Examination:21-SEP-2016:15:51 File:21SEP16Z
Experiment:1668PCB Function:2 Reference:PFK

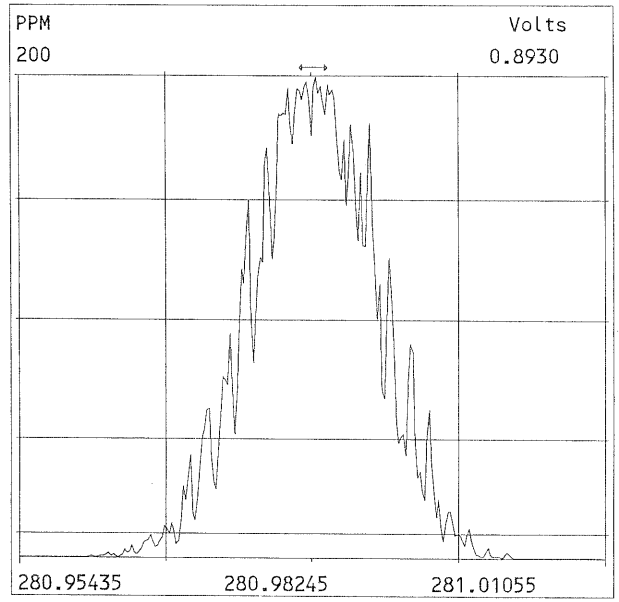












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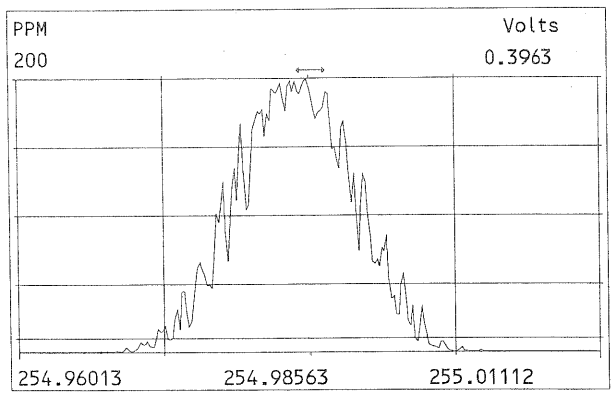
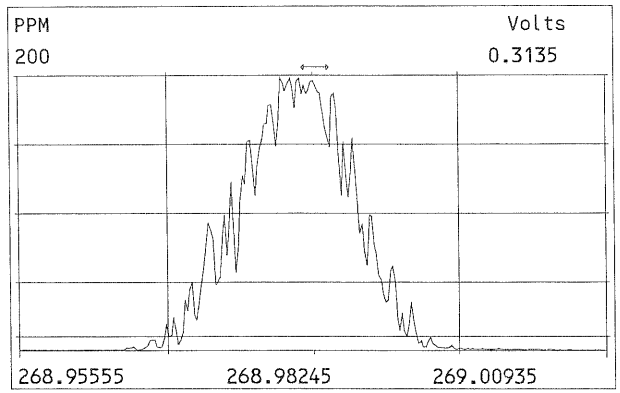
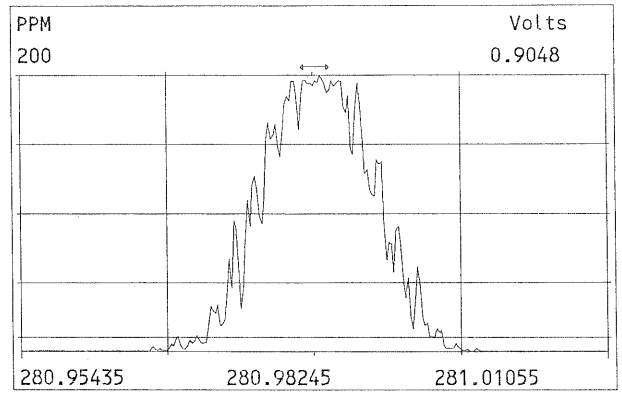
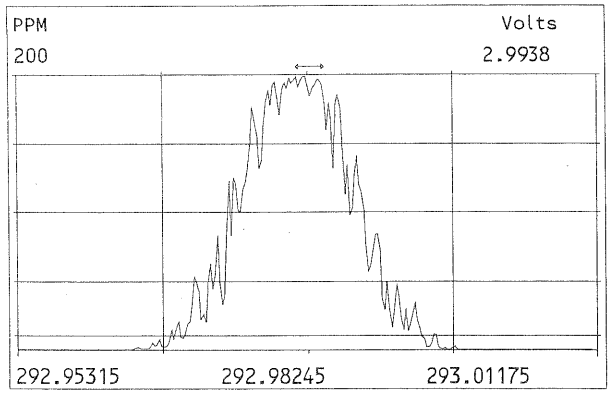
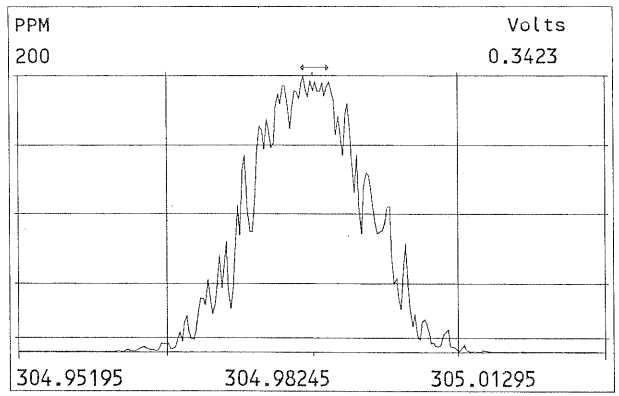
Experiment:1668PCB Function:3 Reference:PFK

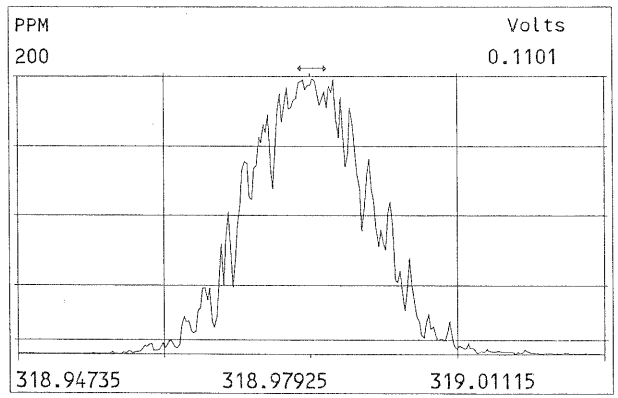


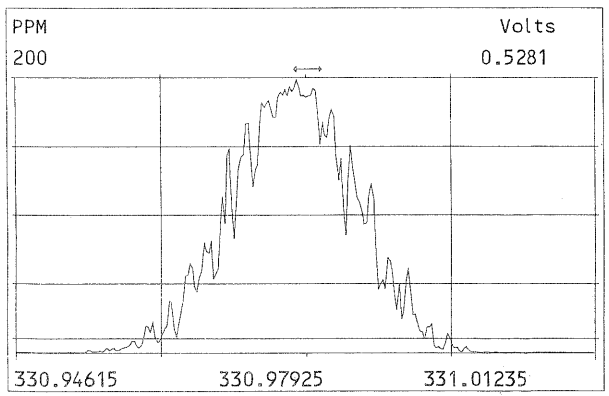


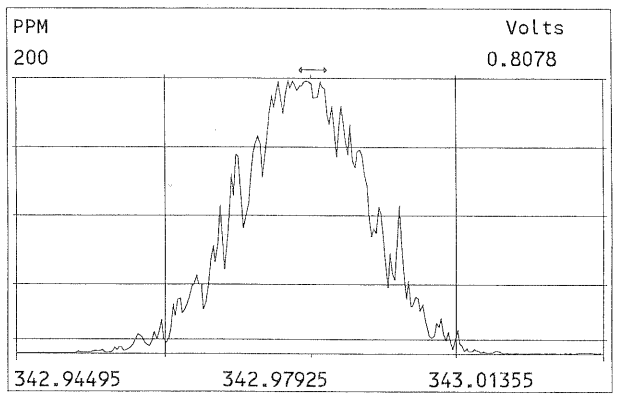




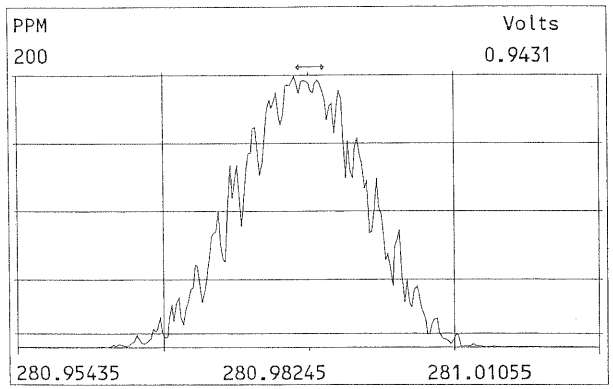


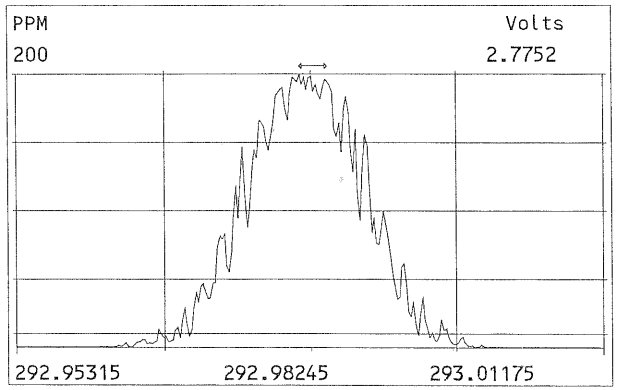


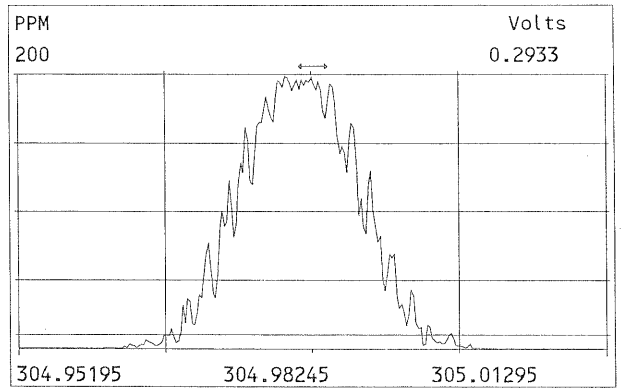


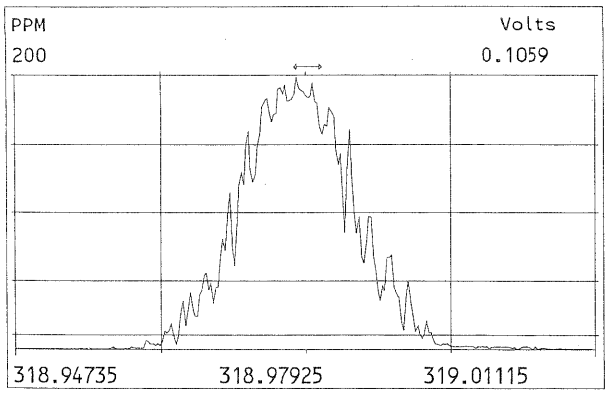


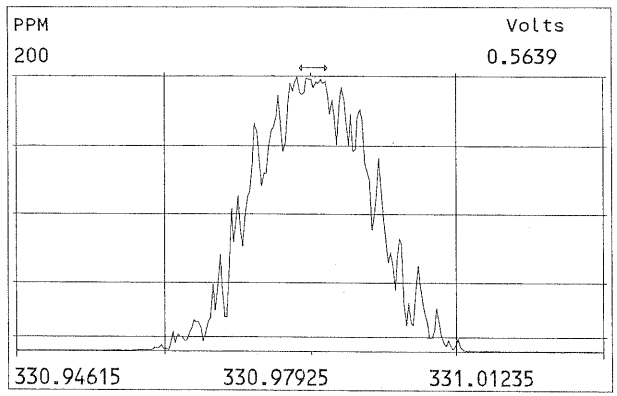
Peak Locate Examination:21-SEP-2016:15:52 File:21SEP16Z
Experiment:1668PCB Function:4 Reference:PFK

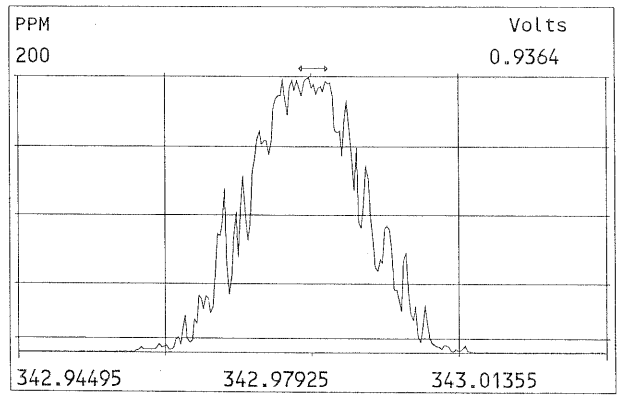


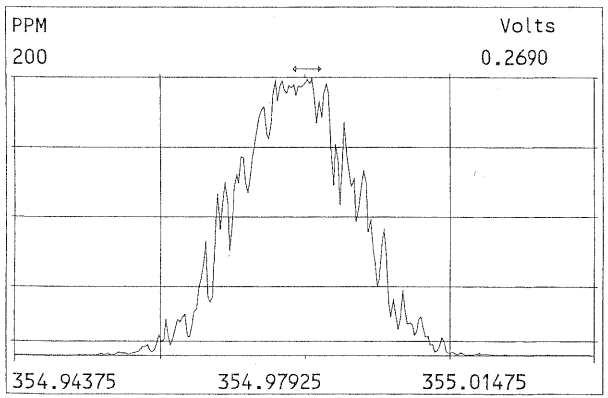


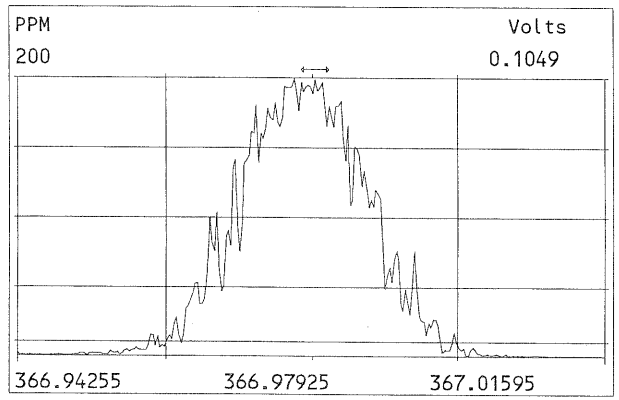


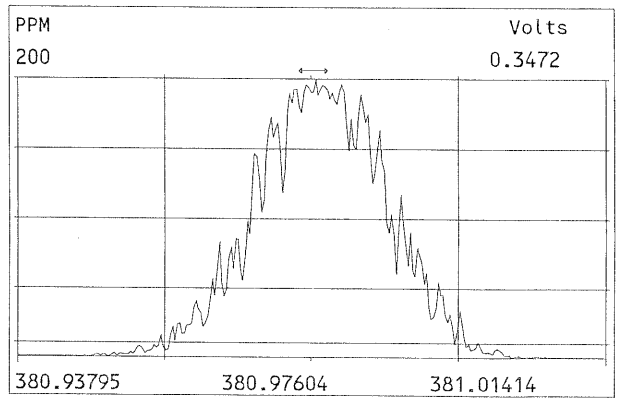




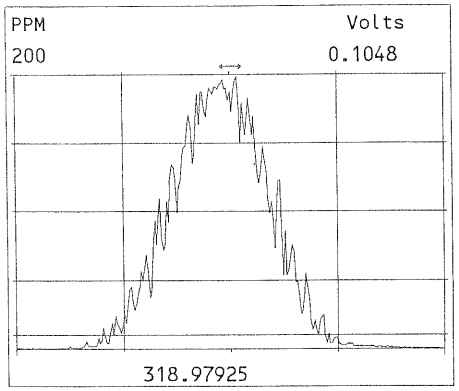


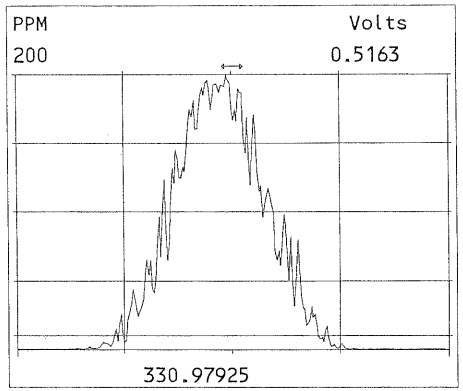


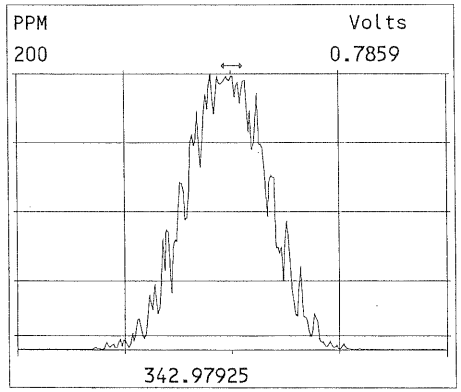


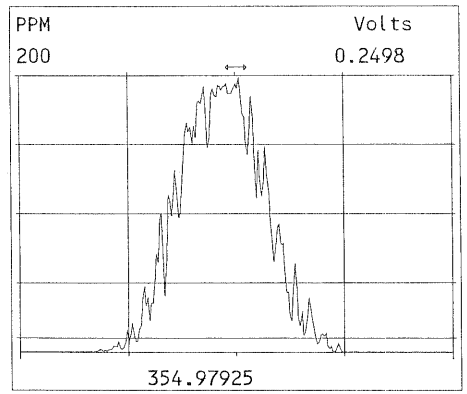


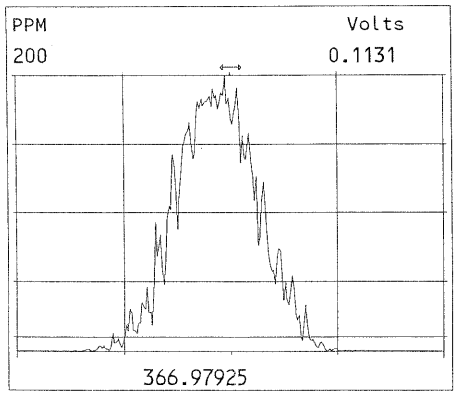
Peak Locate Examination:21-SEP-2016:15:52 File:21SEP16Z
Experiment:1668PCB Function:5 Reference:PFK

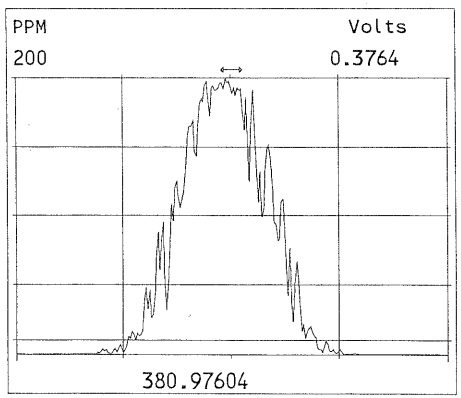


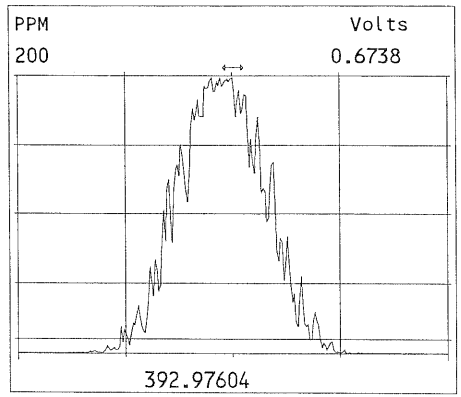


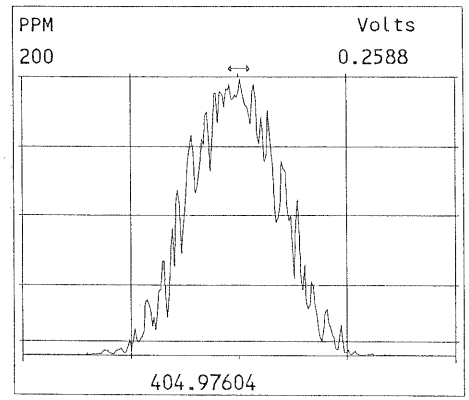


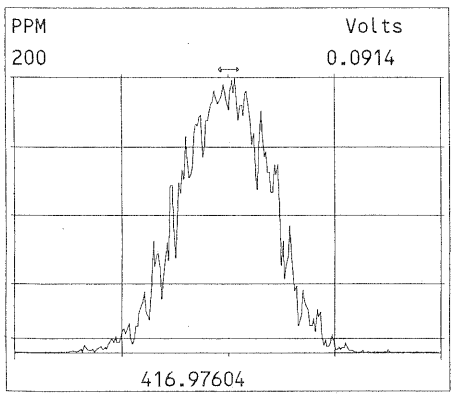


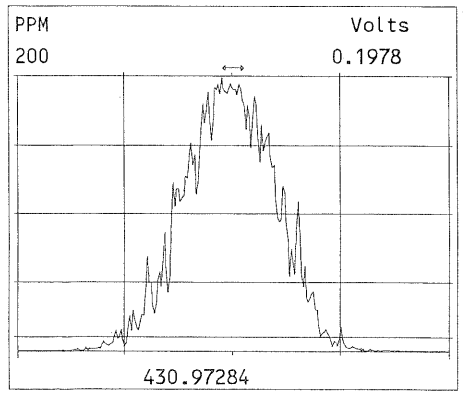


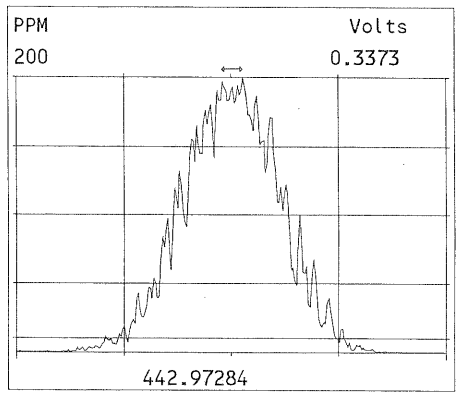




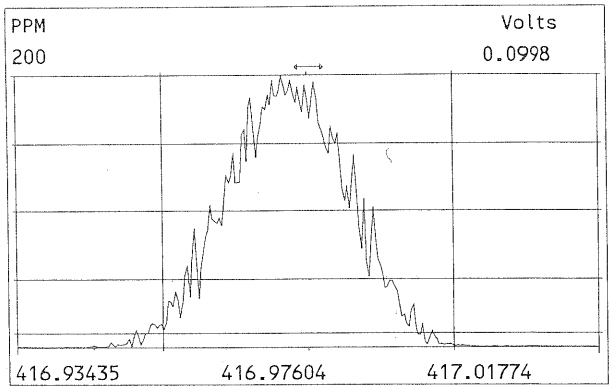


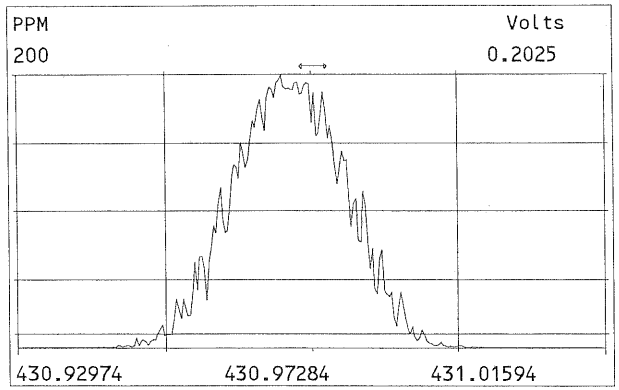


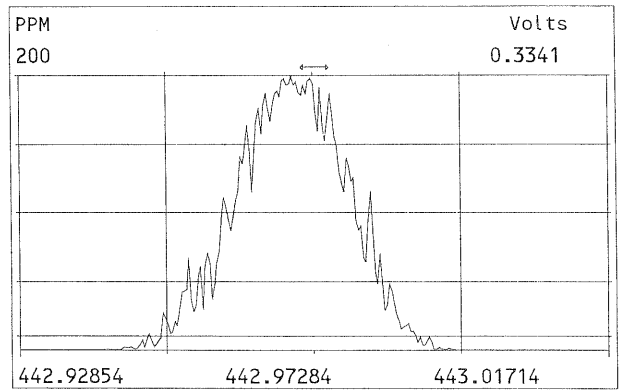


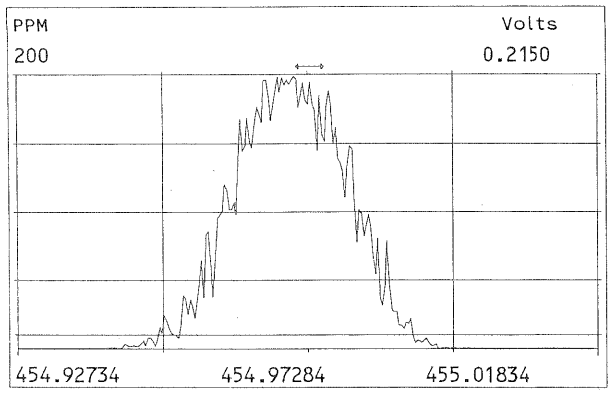


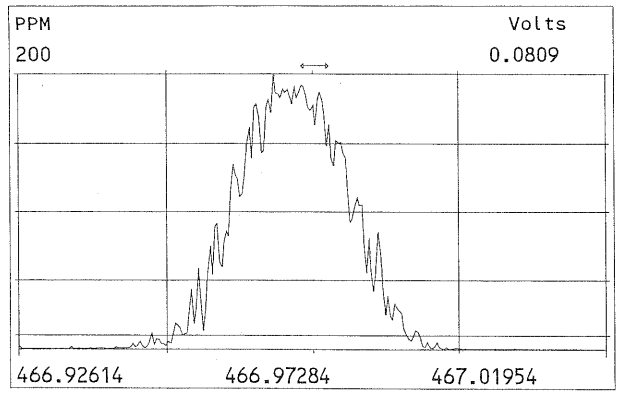
Peak Locate Examination:21-SEP-2016:15:53 File:21SEP16Z
Experiment:1668PCB Function:6 Reference:PFK

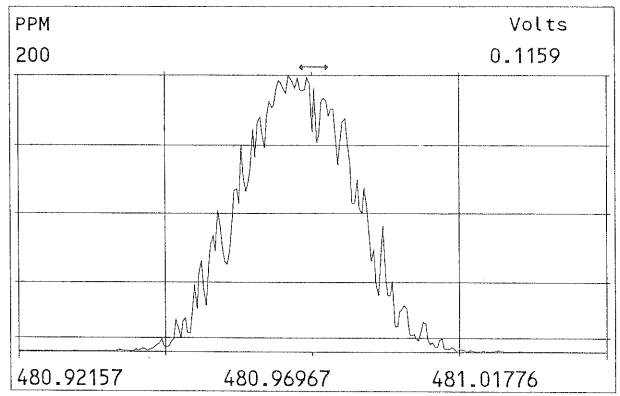


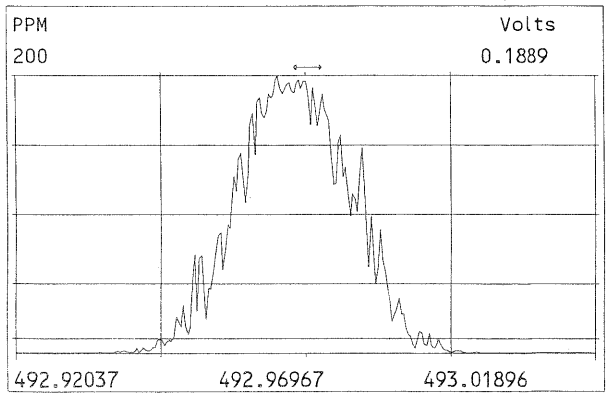


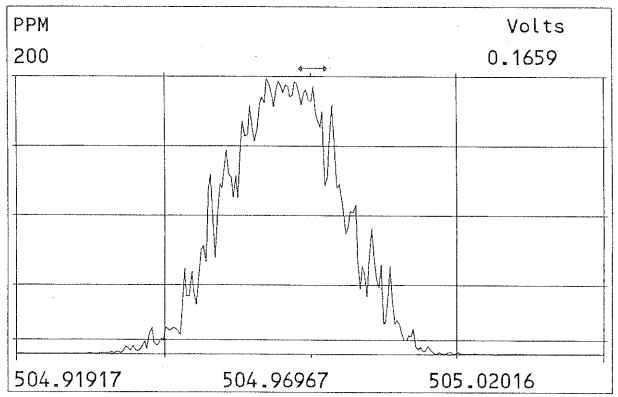


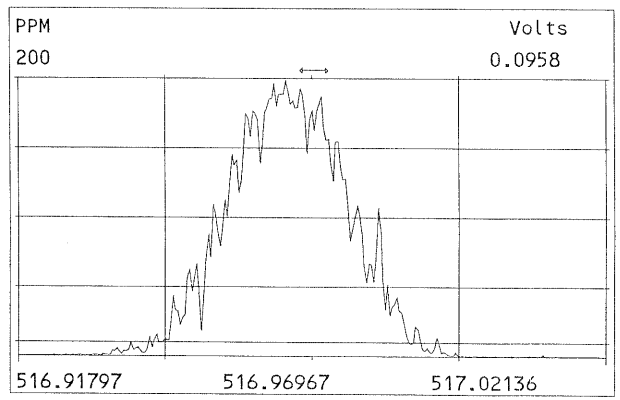




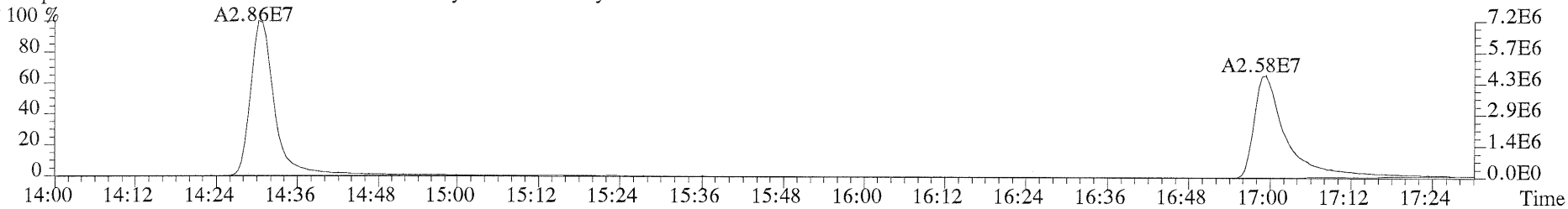




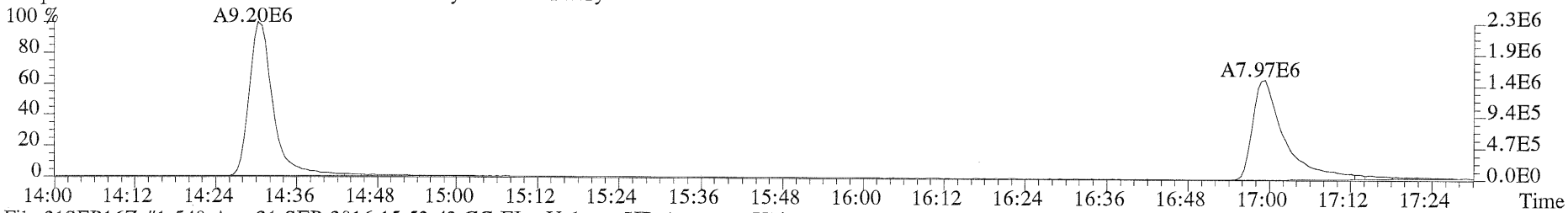




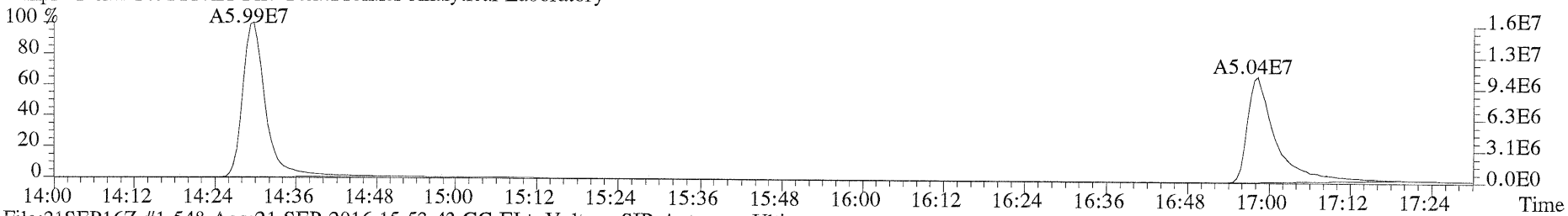
File:21SEP16Z #1-548 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-548 Acq:21-SEP-2016 15:53:42 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:ST092116Z1 File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-548 Acq:21-SEP-2016 15:53:42 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:ST092116Z1 File Text:Frontier Analytical Laboratory



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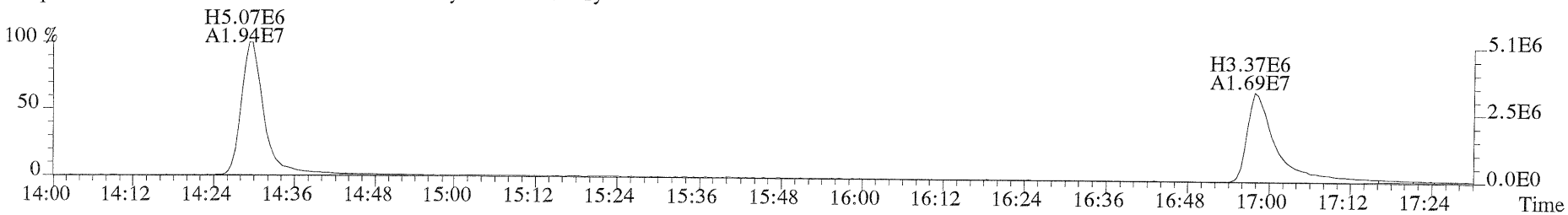
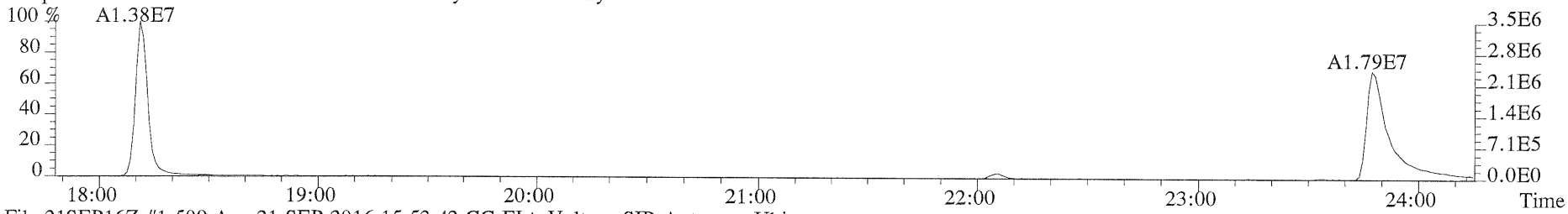
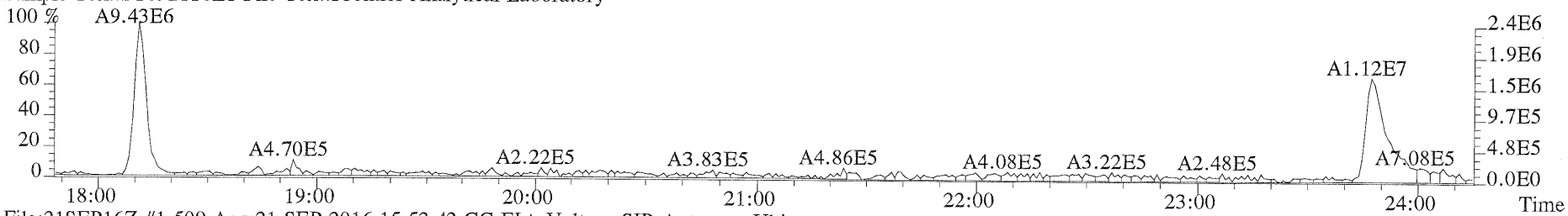
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



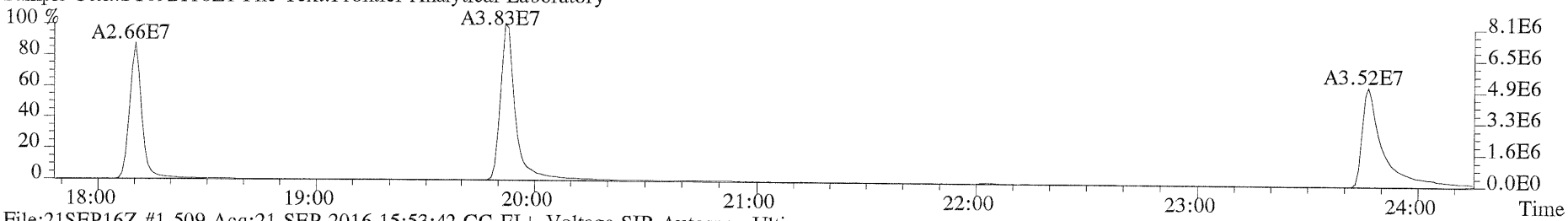
File:21SEP16Z #1-509 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



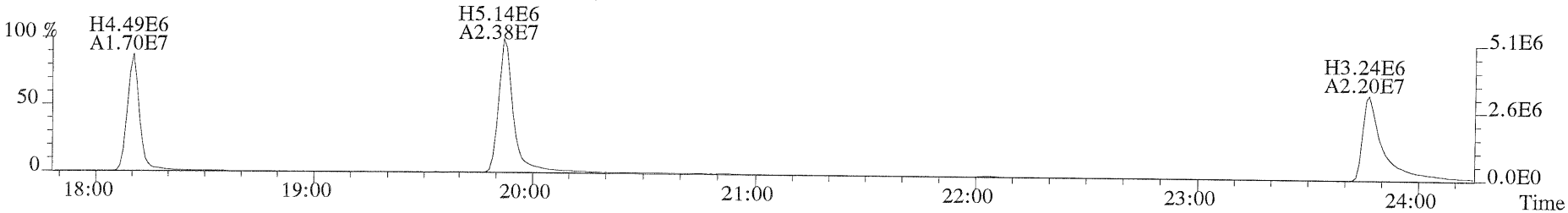
File:21SEP16Z #1-509 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



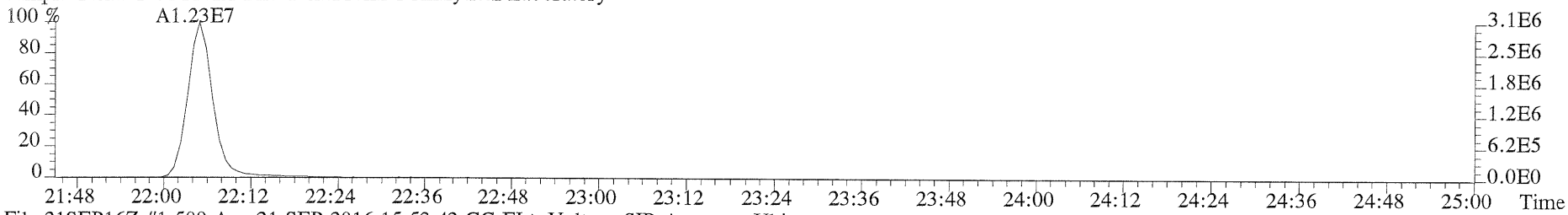
File:21SEP16Z #1-509 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



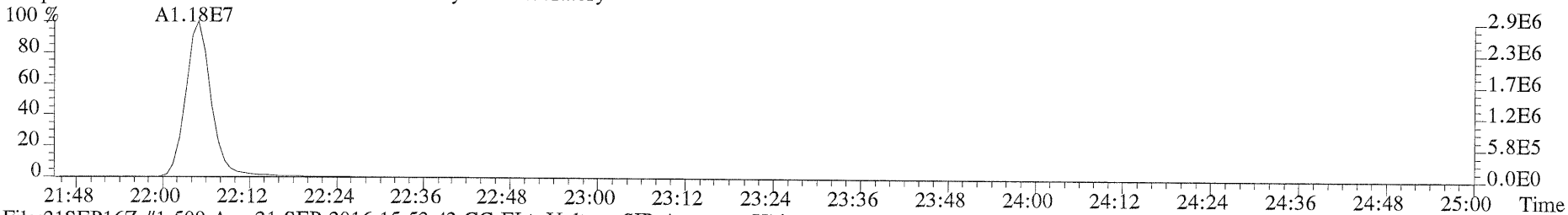
File:21SEP16Z #1-509 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



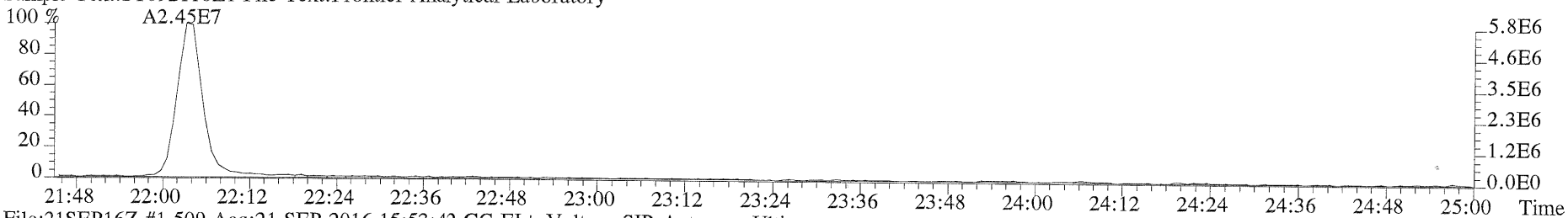
File:21SEP16Z #1-509 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



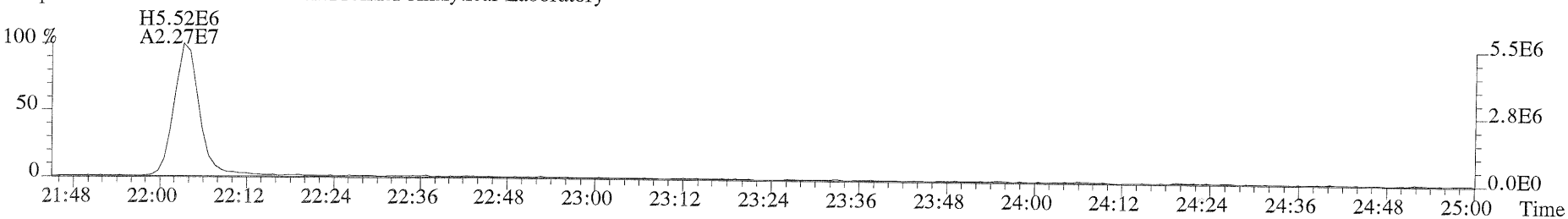
File:21SEP16Z #1-509 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



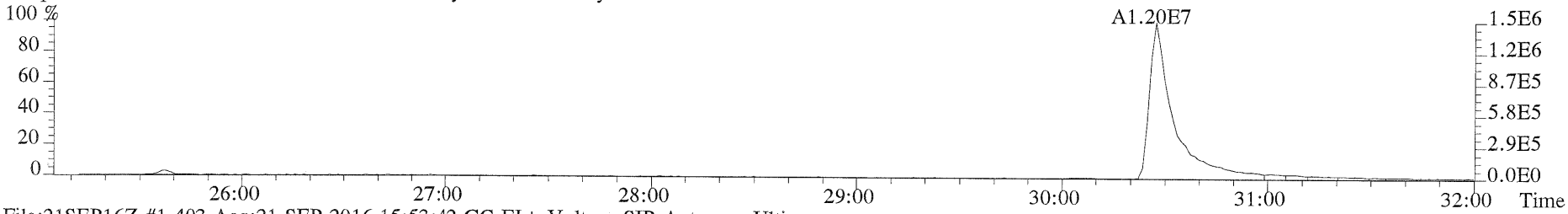
File:21SEP16Z #1-509 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



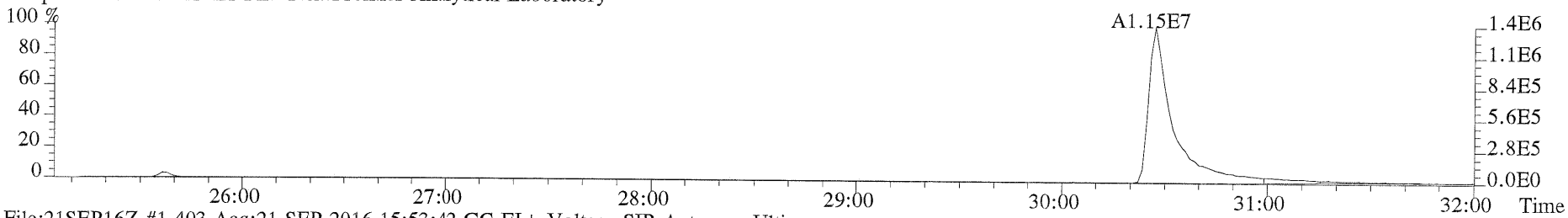
File:21SEP16Z #1-509 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



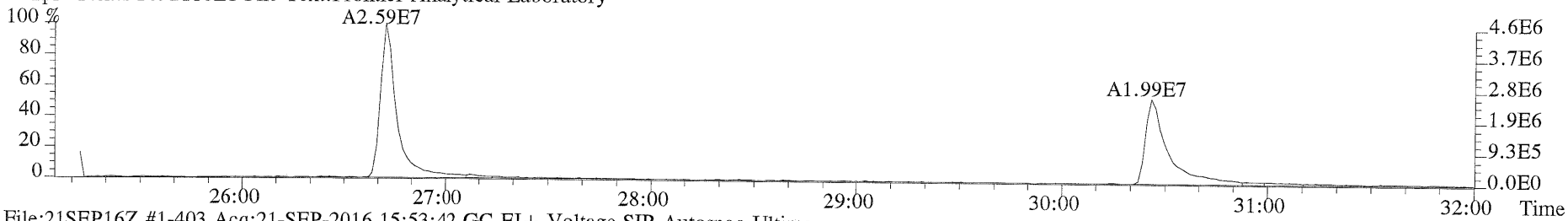
File:21SEP16Z #1-403 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



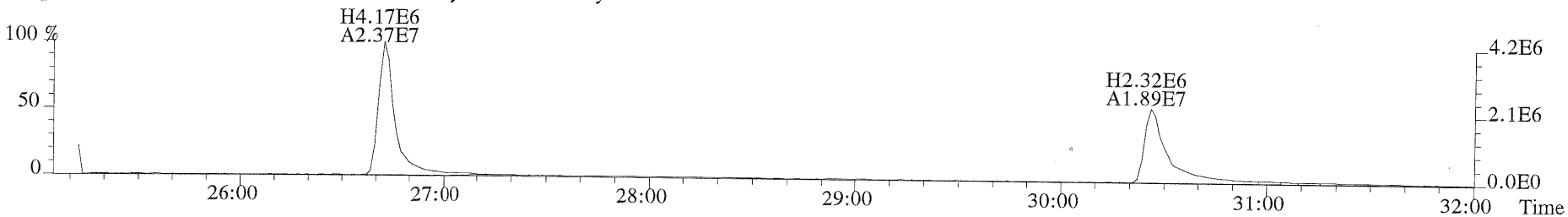
File:21SEP16Z #1-403 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



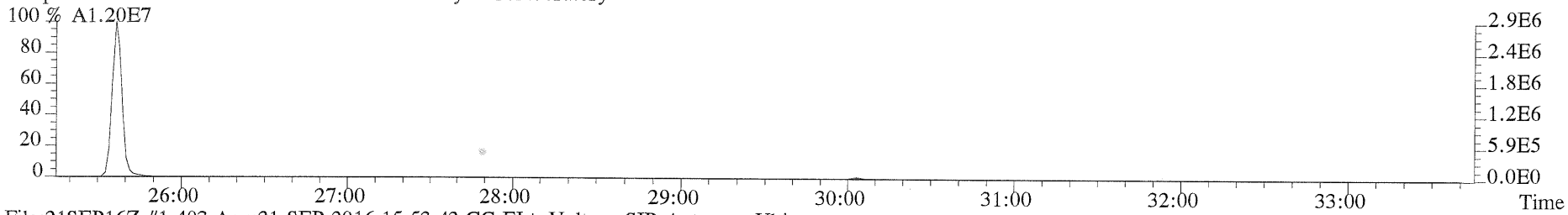
File:21SEP16Z #1-403 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



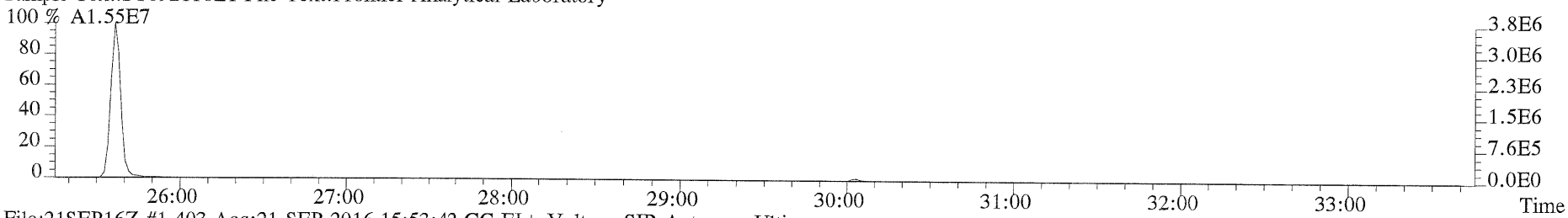
File:21SEP16Z #1-403 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



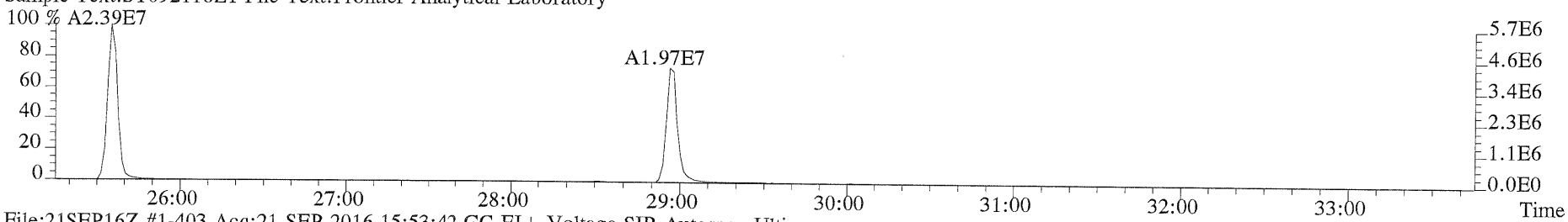
File:21SEP16Z #1-403 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



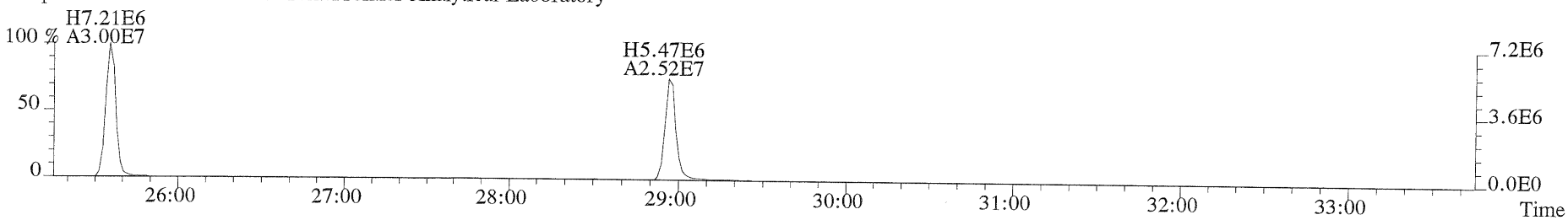
File:21SEP16Z #1-403 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



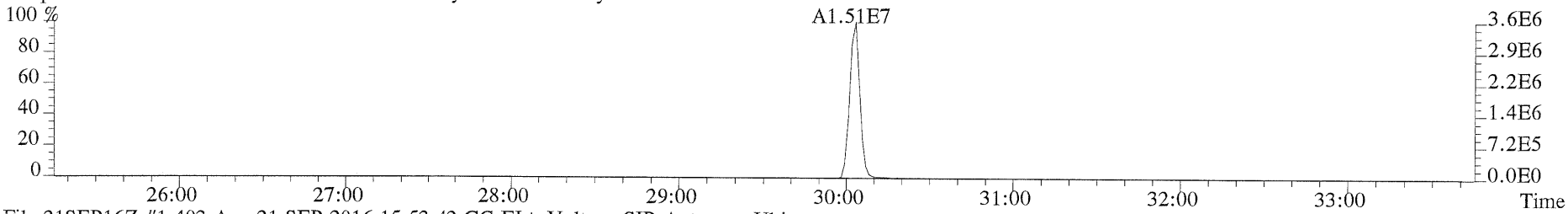
File:21SEP16Z #1-403 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



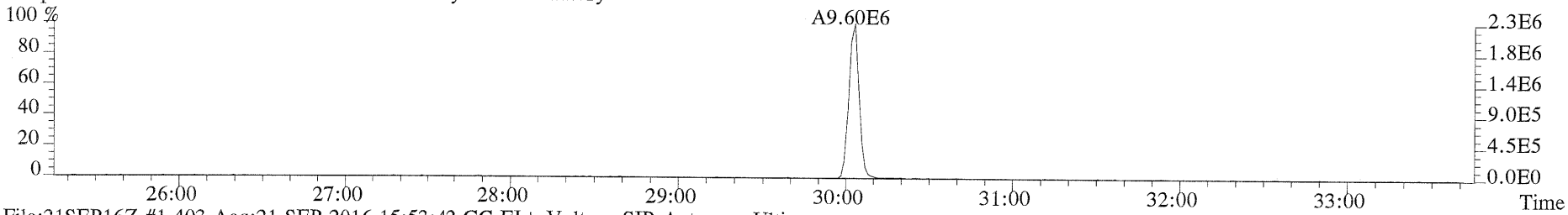
File:21SEP16Z #1-403 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



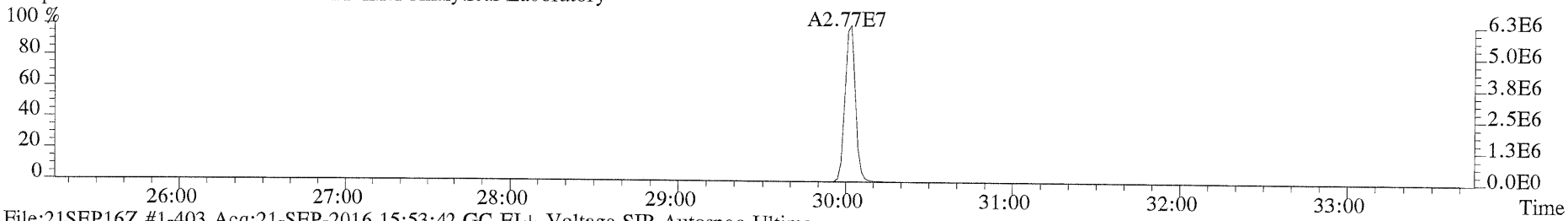
File:21SEP16Z #1-403 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-403 Acq:21-SEP-2016 15:53:42 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:ST092116Z1 File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-403 Acq:21-SEP-2016 15:53:42 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:ST092116Z1 File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-403 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
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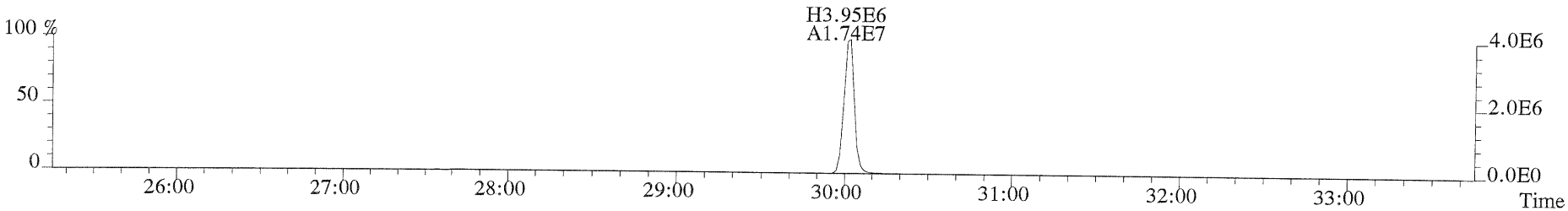
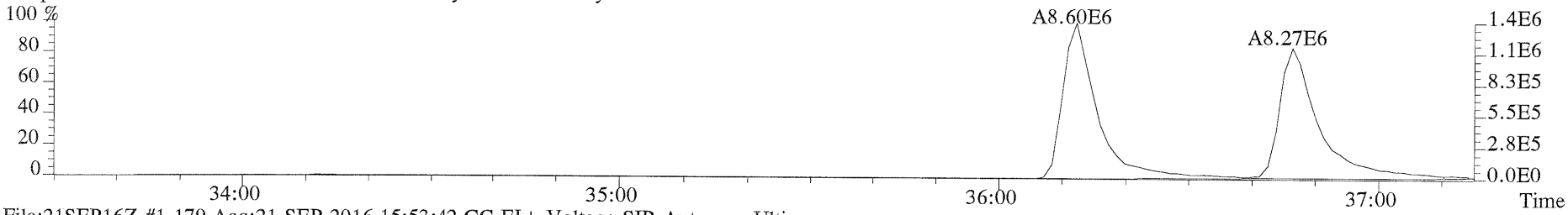
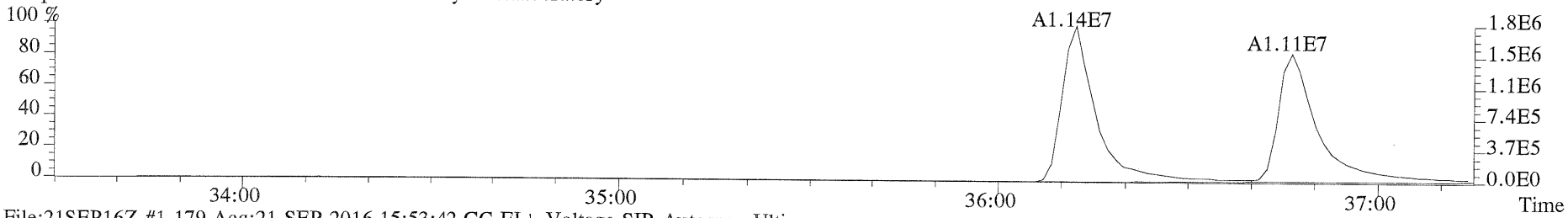
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



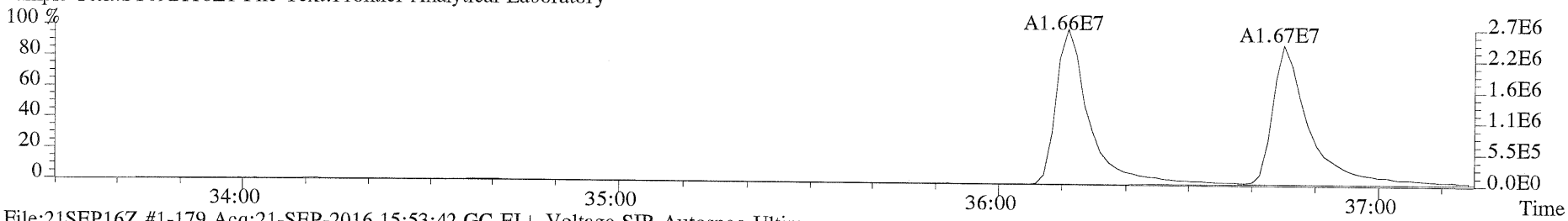
File:21SEP16Z #1-179 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



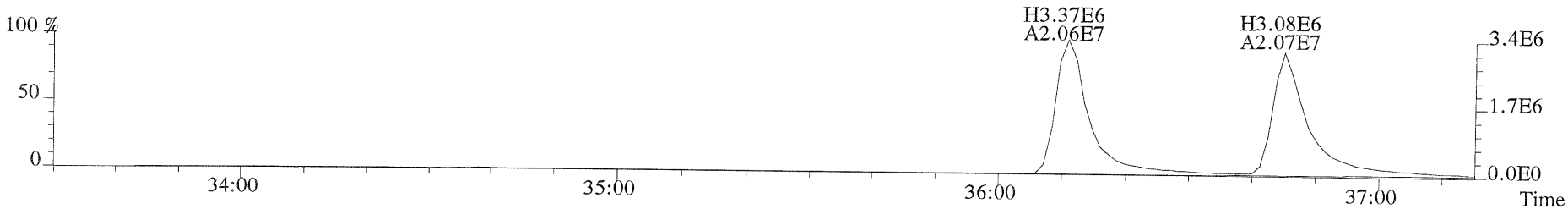
File:21SEP16Z #1-179 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



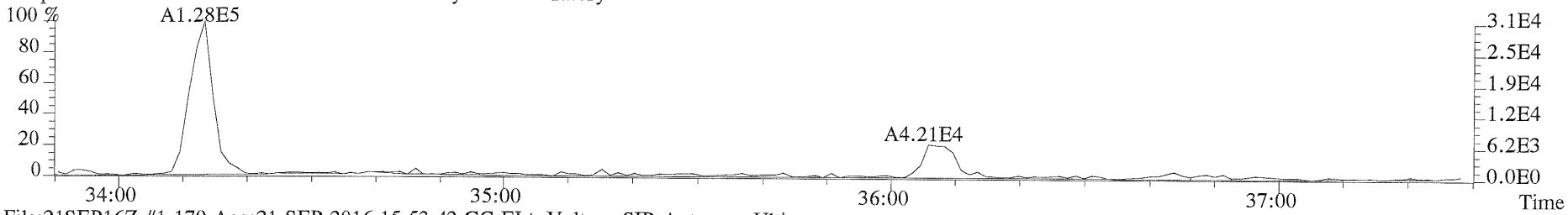
File:21SEP16Z #1-179 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



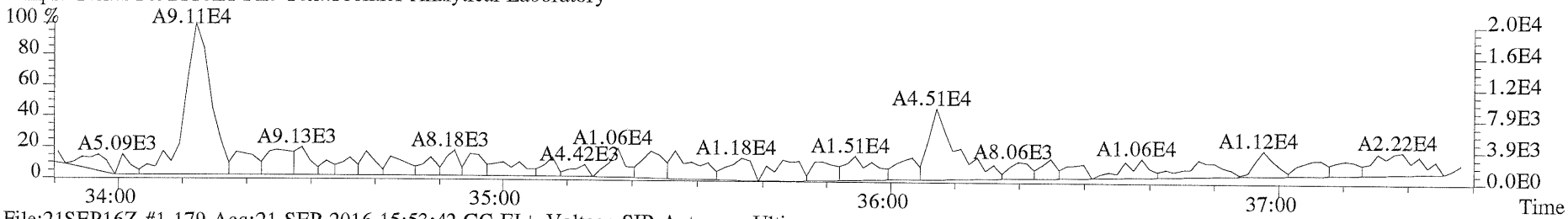
File:21SEP16Z #1-179 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



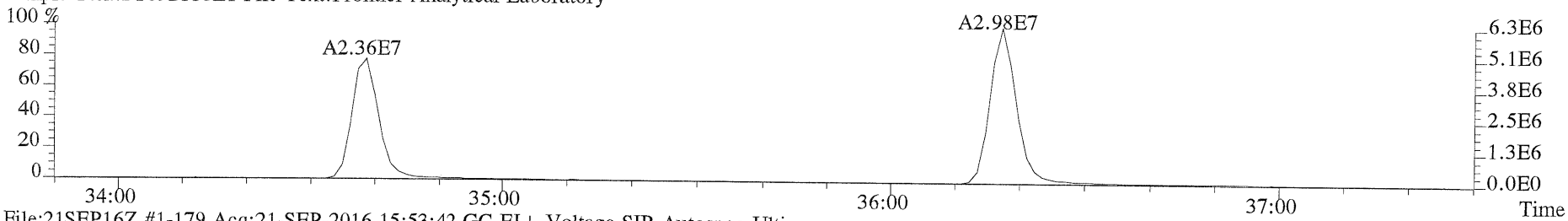
File:21SEP16Z #1-179 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



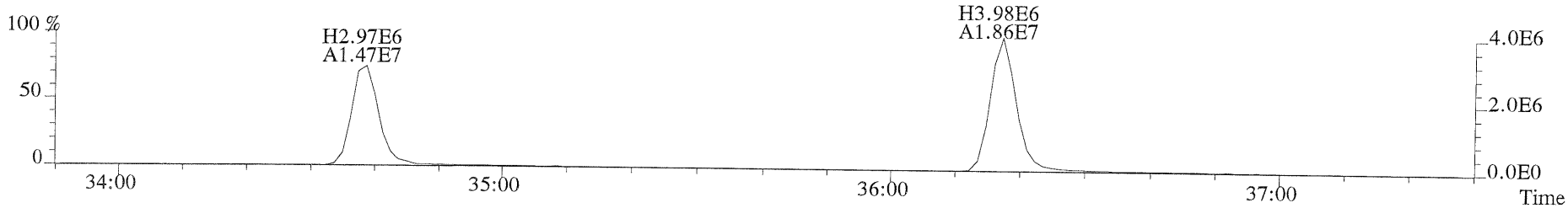
File:21SEP16Z #1-179 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



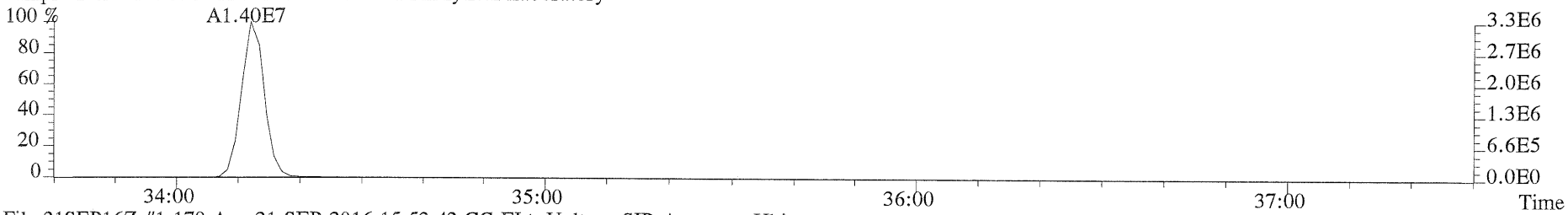
File:21SEP16Z #1-179 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



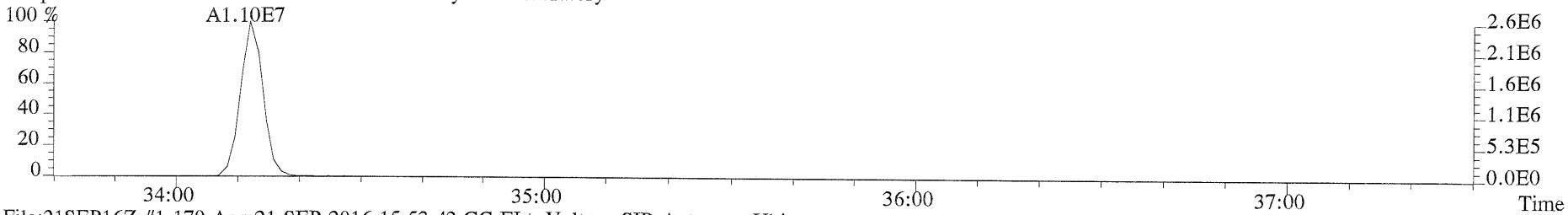
File:21SEP16Z #1-179 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



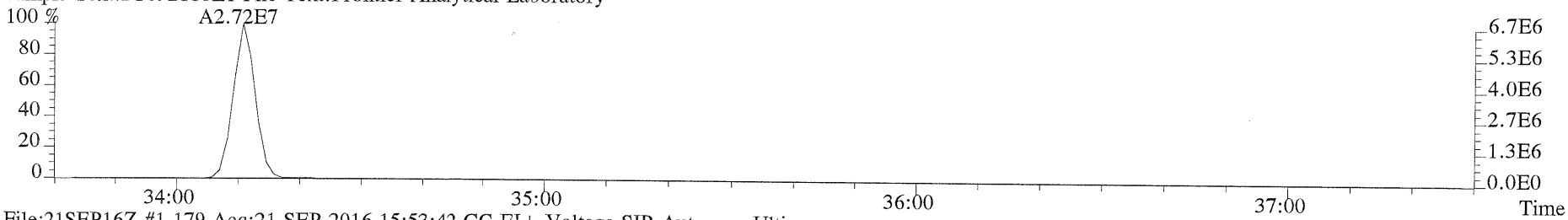
File:21SEP16Z #1-179 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



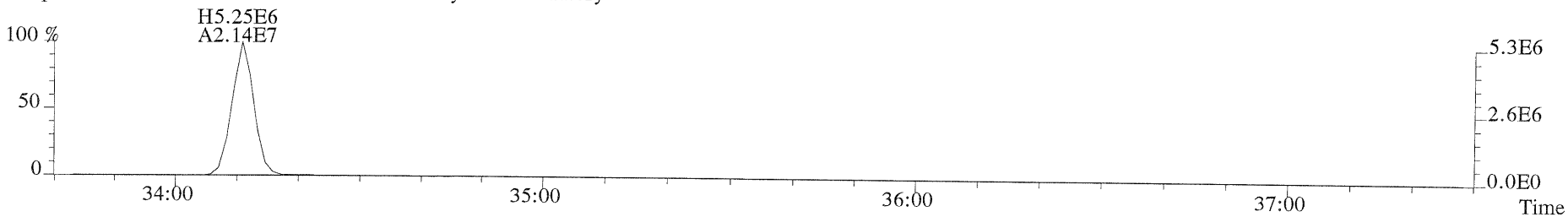
File:21SEP16Z #1-179 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



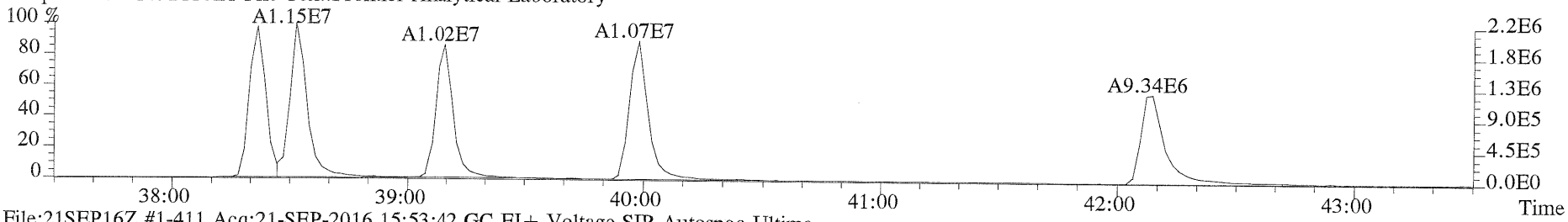
File:21SEP16Z #1-179 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



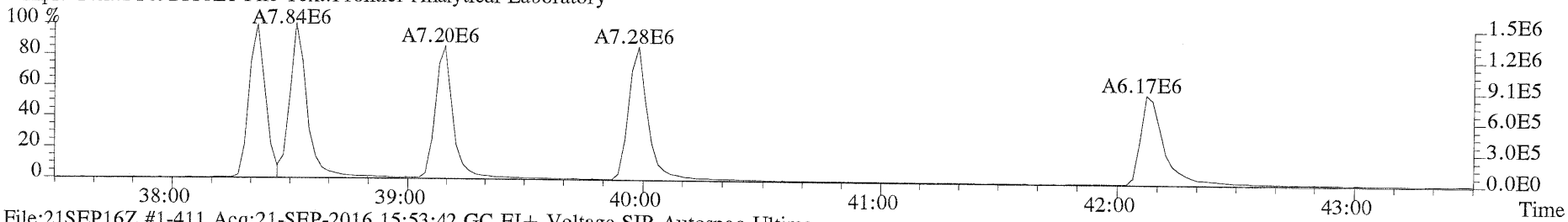
File:21SEP16Z #1-179 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



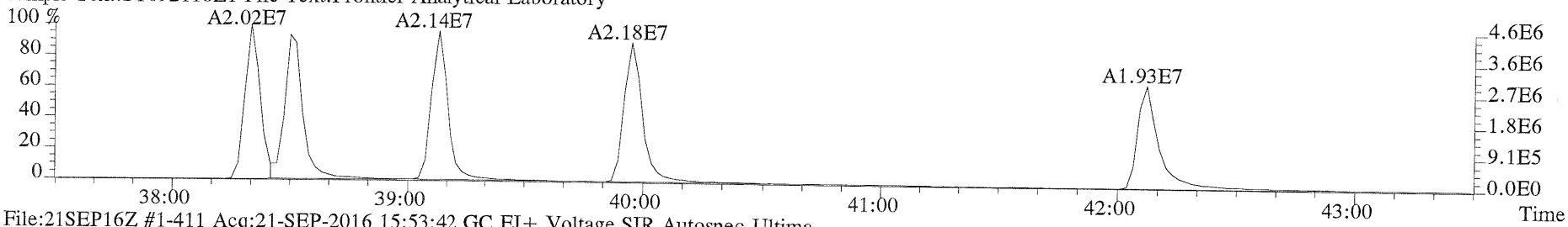
File:21SEP16Z #1-411 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



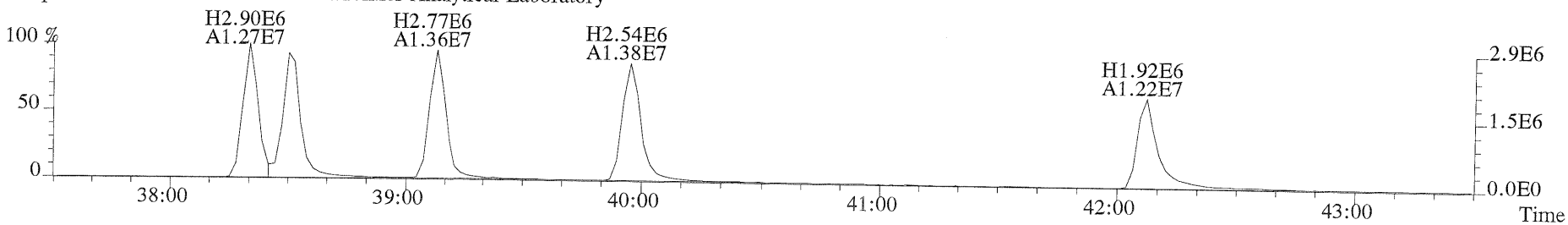
File:21SEP16Z #1-411 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



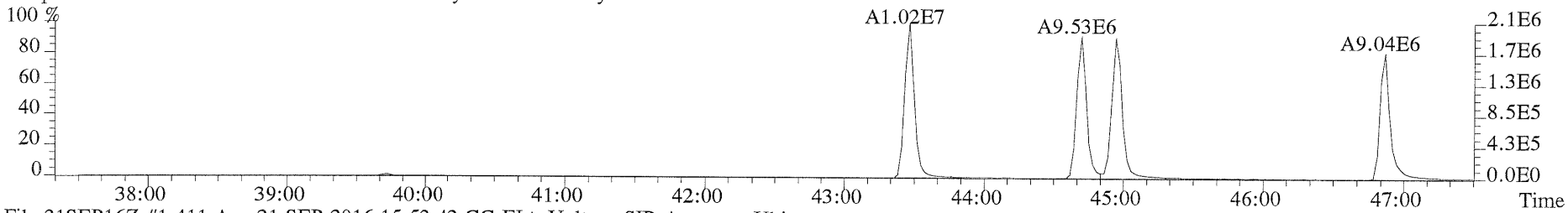
File:21SEP16Z #1-411 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



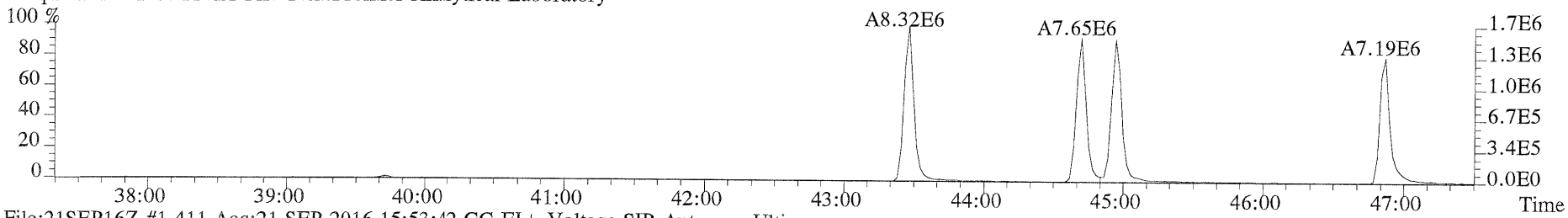
File:21SEP16Z #1-411 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



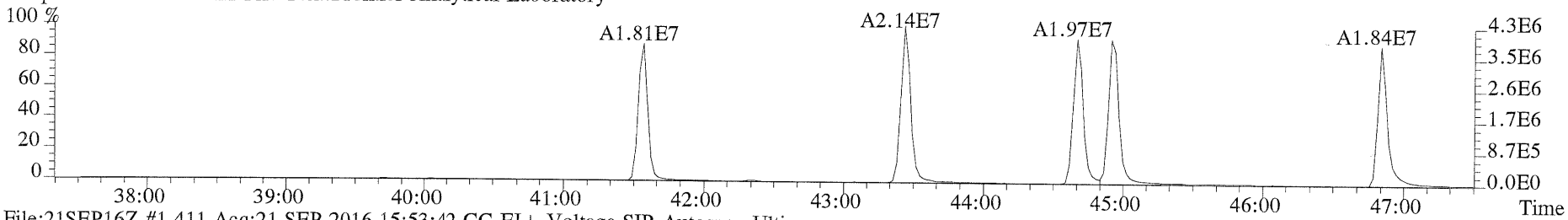
File:21SEP16Z #1-411 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



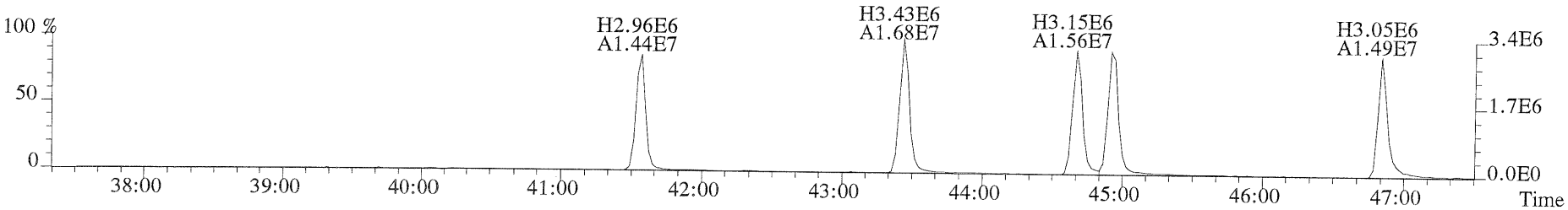
File:21SEP16Z #1-411 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



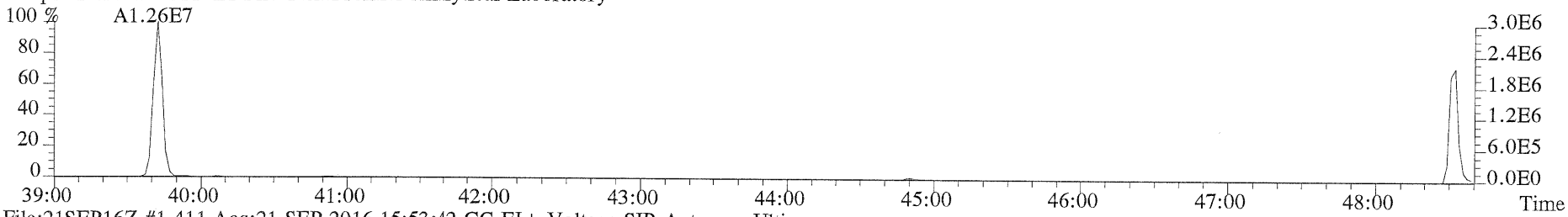
File:21SEP16Z #1-411 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



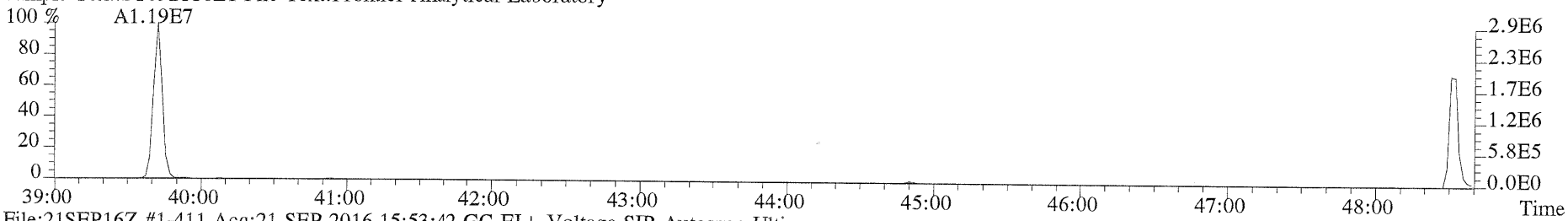
File:21SEP16Z #1-411 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



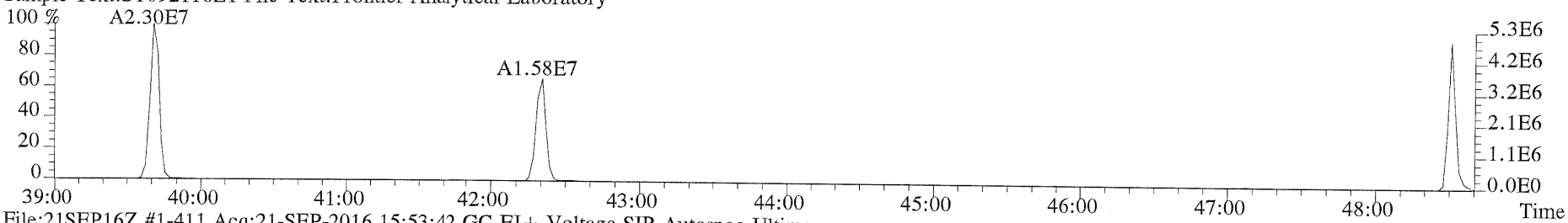
File:21SEP16Z #1-411 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



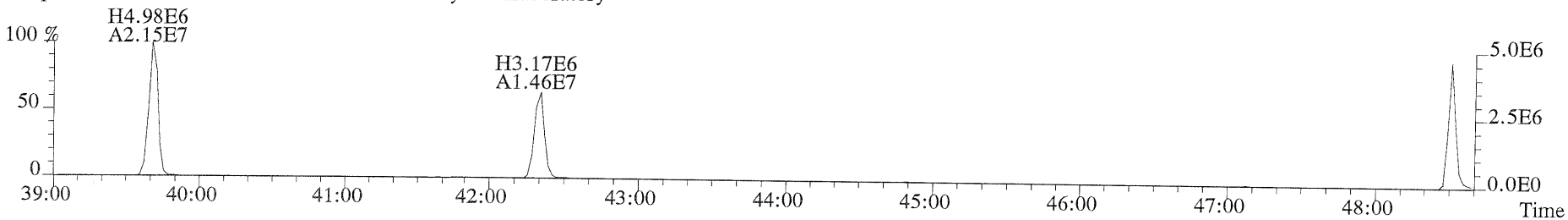
File:21SEP16Z #1-411 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



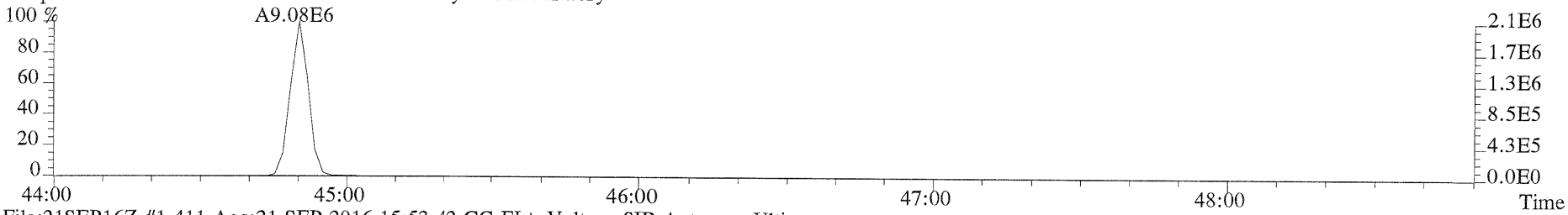
File:21SEP16Z #1-411 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



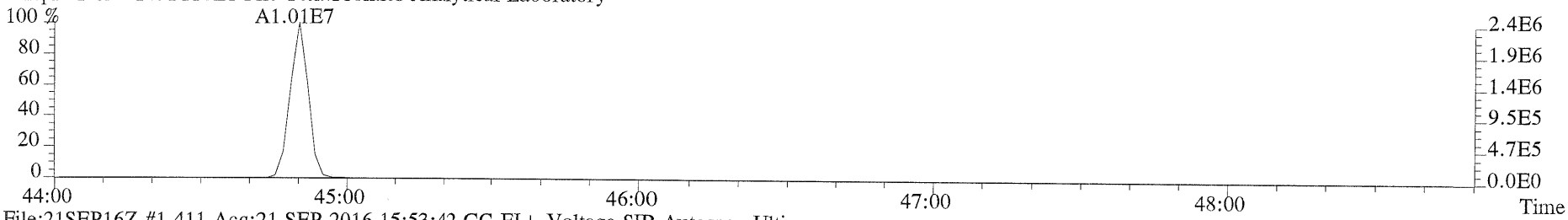
File:21SEP16Z #1-411 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



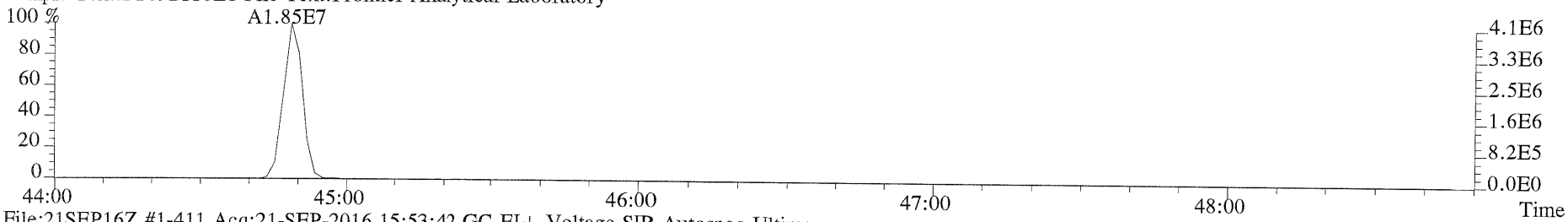
File:21SEP16Z #1-411 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



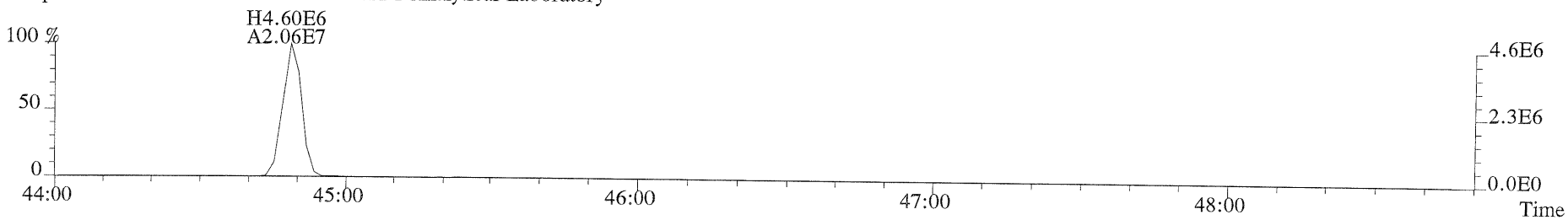
File:21SEP16Z #1-411 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



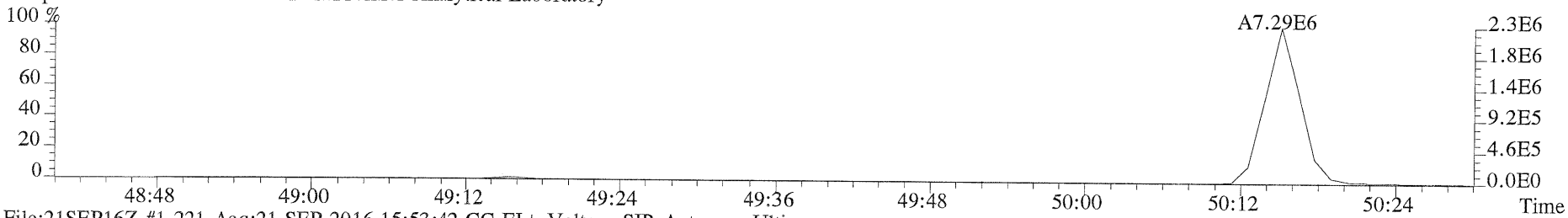
File:21SEP16Z #1-411 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



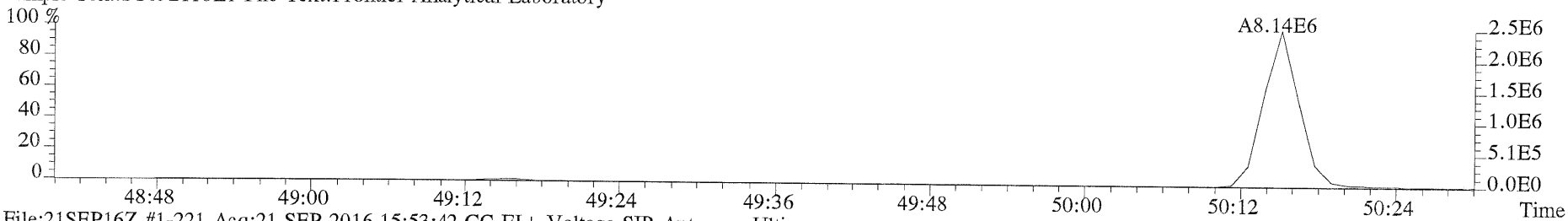
File:21SEP16Z #1-411 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



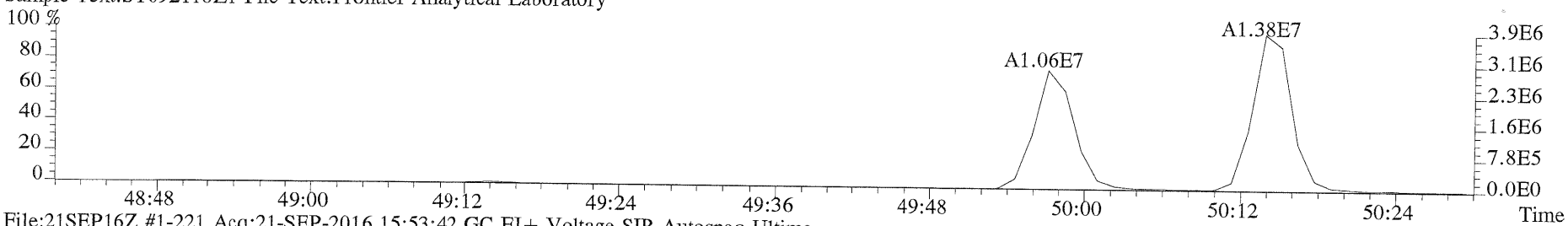
File:21SEP16Z #1-221 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



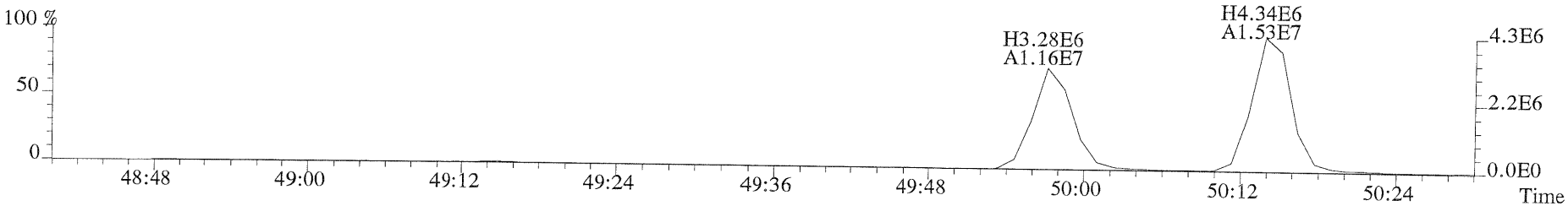
File:21SEP16Z #1-221 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



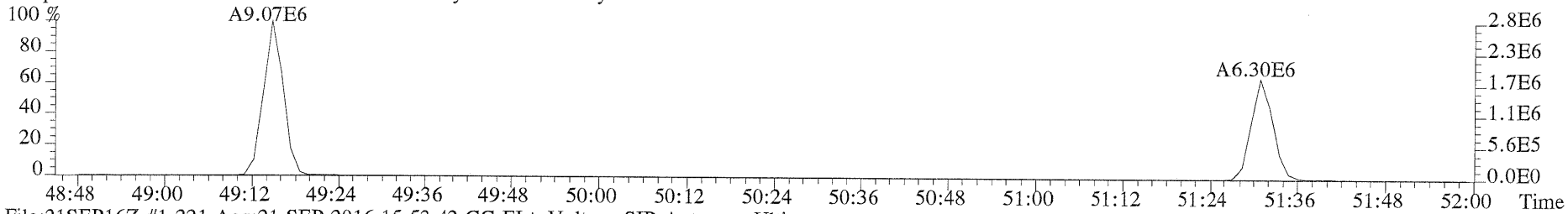
File:21SEP16Z #1-221 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



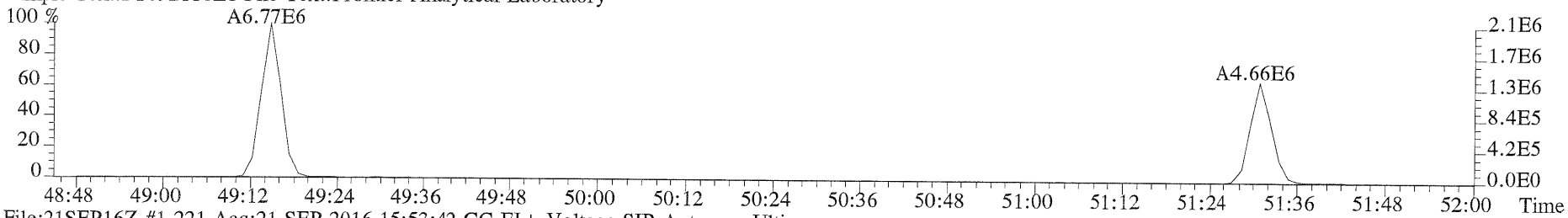
File:21SEP16Z #1-221 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-221 Acq:21-SEP-2016 15:53:42 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:ST092116Z1 File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-221 Acq:21-SEP-2016 15:53:42 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:ST092116Z1 File Text:Frontier Analytical Laboratory



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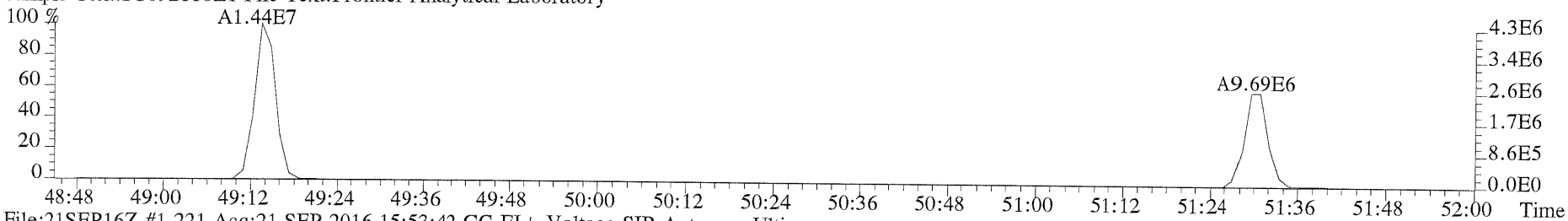
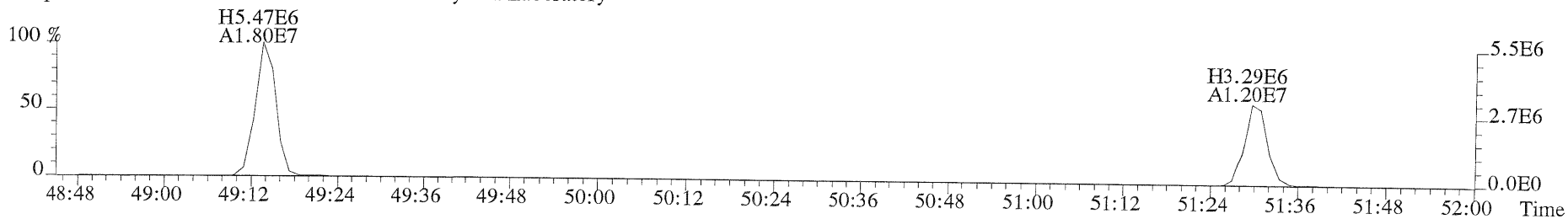
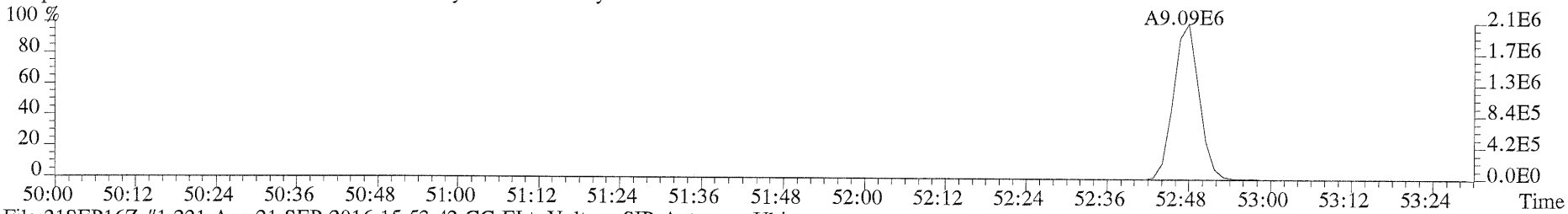
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



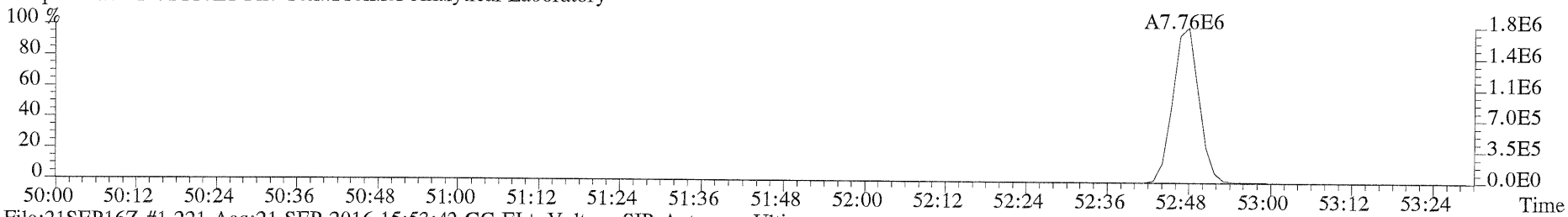
File:21SEP16Z #1-221 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



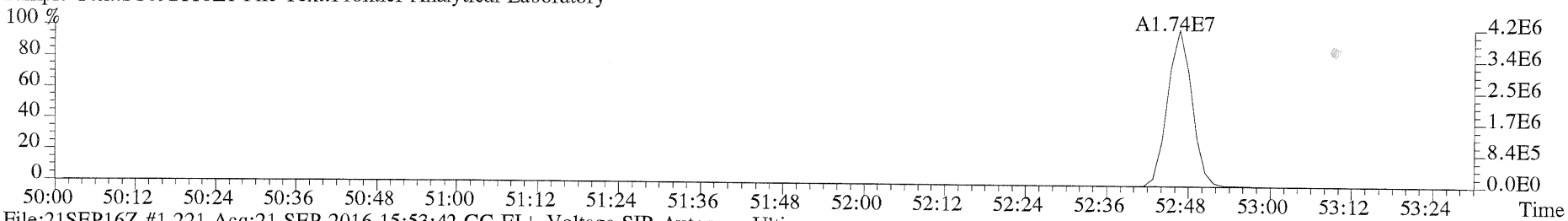
File:21SEP16Z #1-221 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



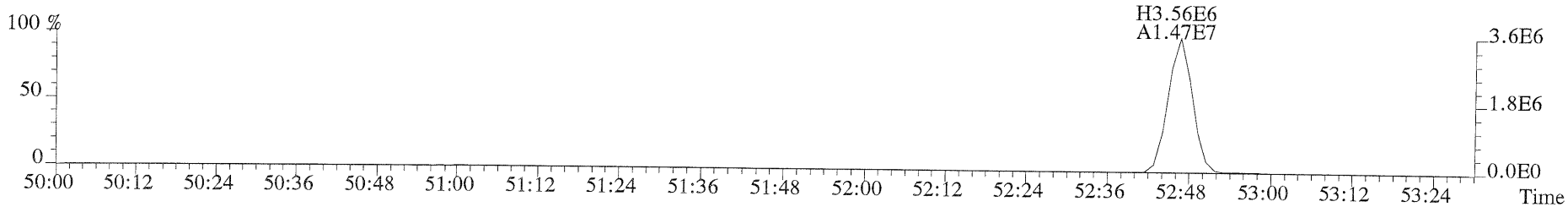
File:21SEP16Z #1-221 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory



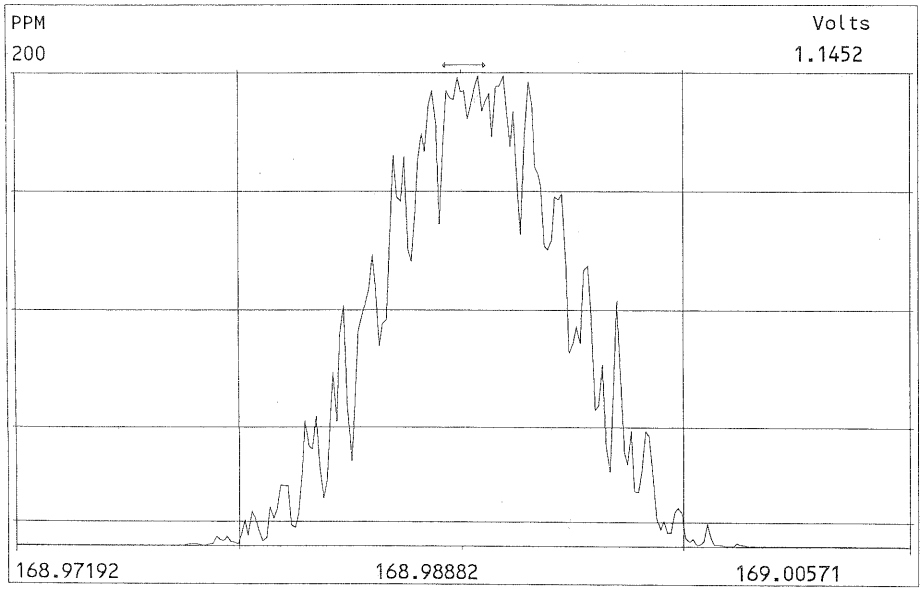
File:21SEP16Z #1-221 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory

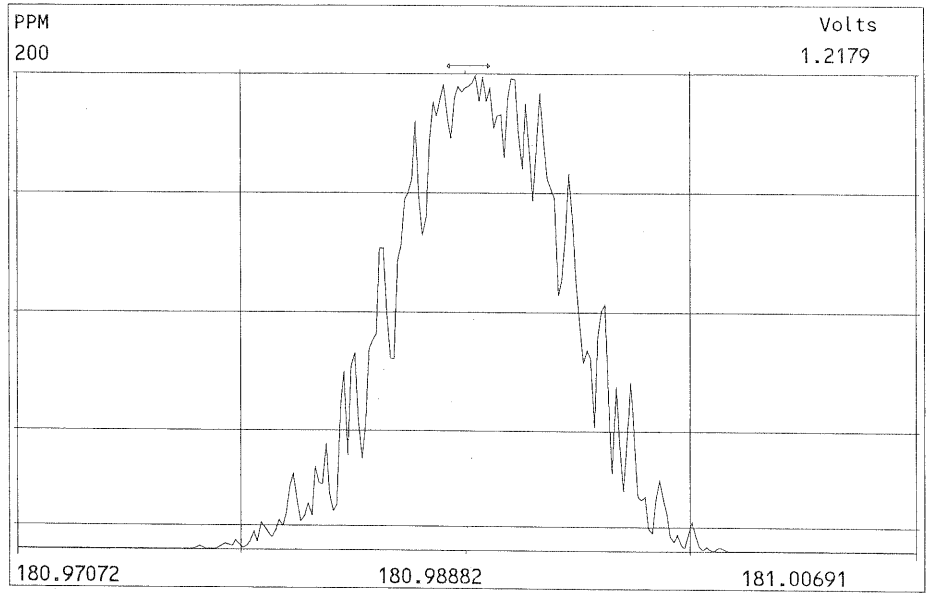


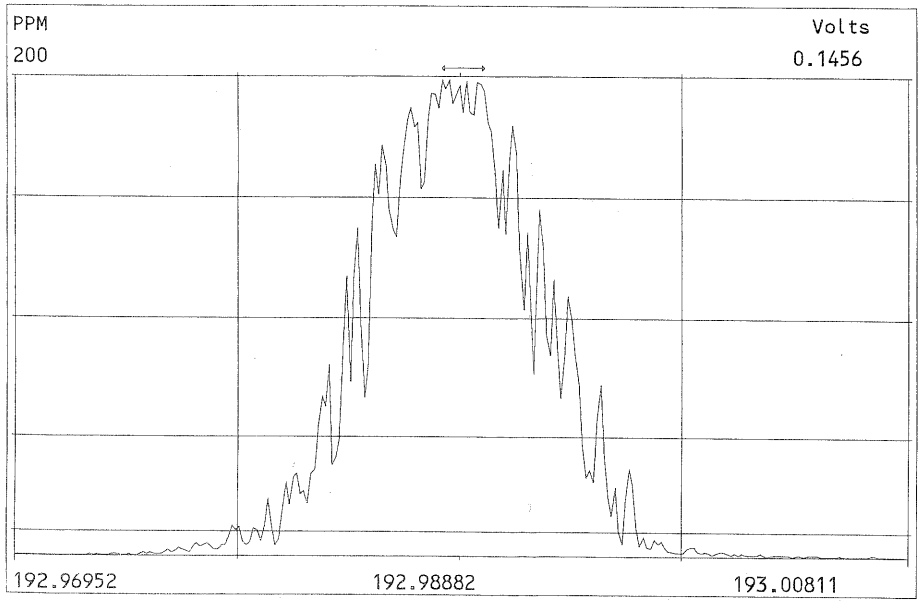
File:21SEP16Z #1-221 Acq:21-SEP-2016 15:53:42 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z1 File Text:Frontier Analytical Laboratory

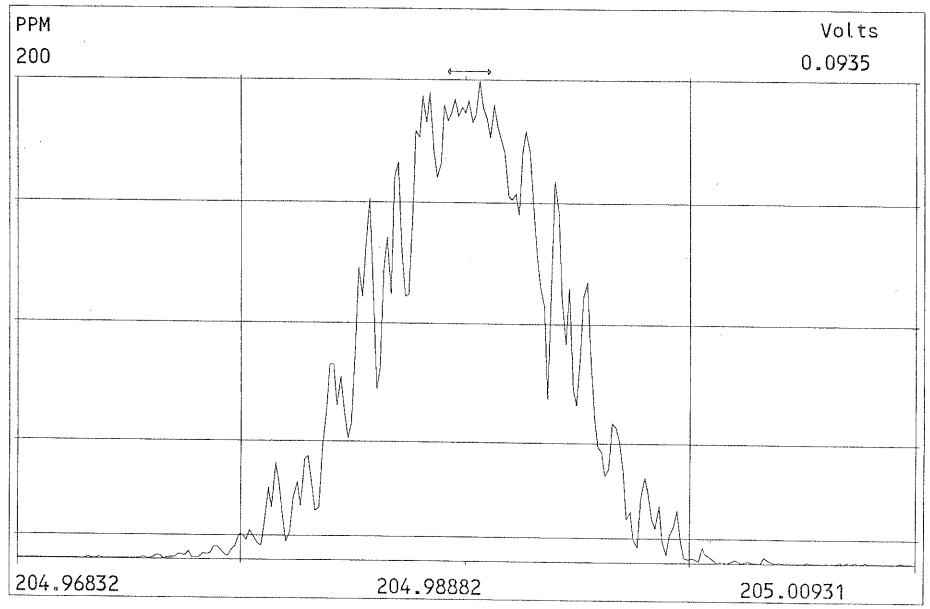


Peak Locate Examination:21-SEP-2016:22:50 File:21SEP16Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

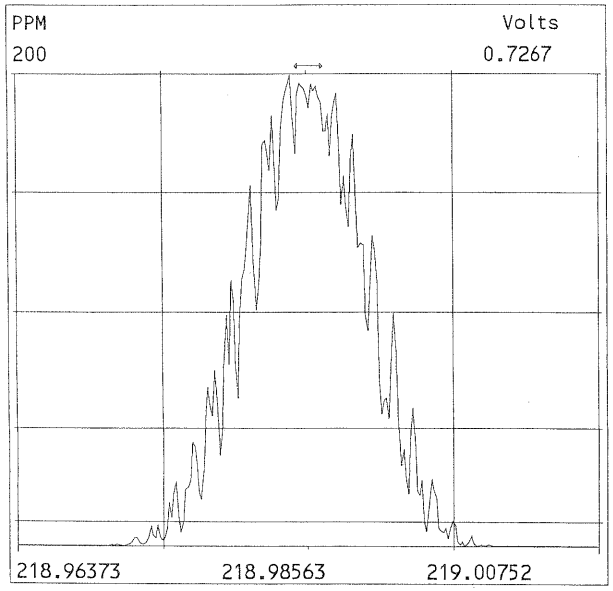


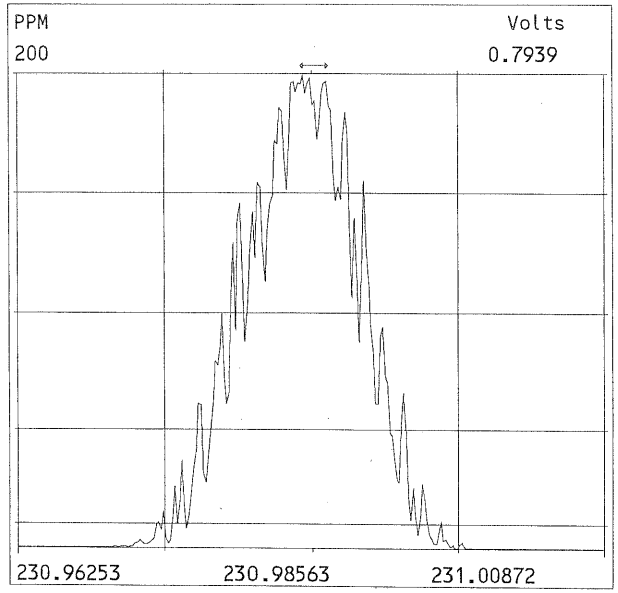


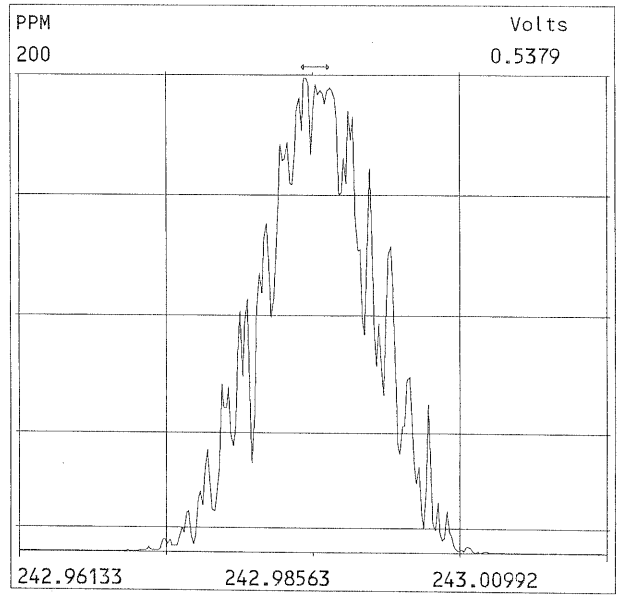


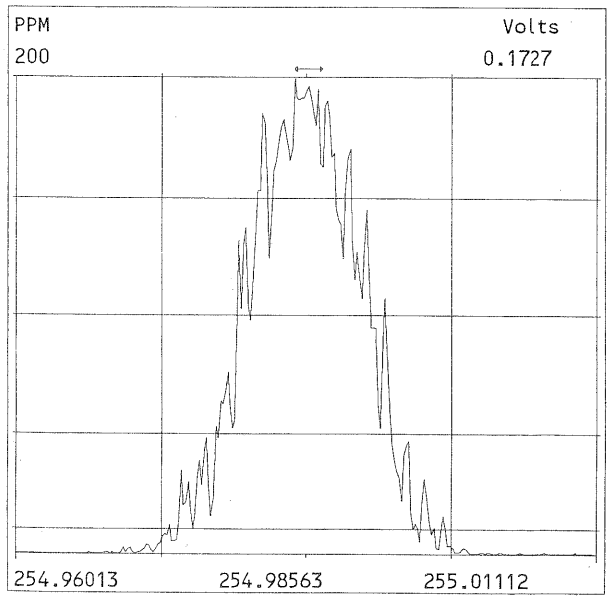


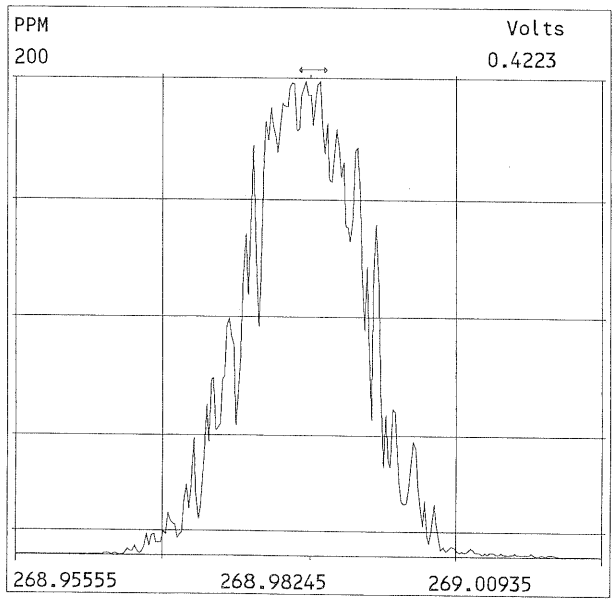
Peak Locate Examination:21-SEP-2016:22:51 File:21SEP16Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

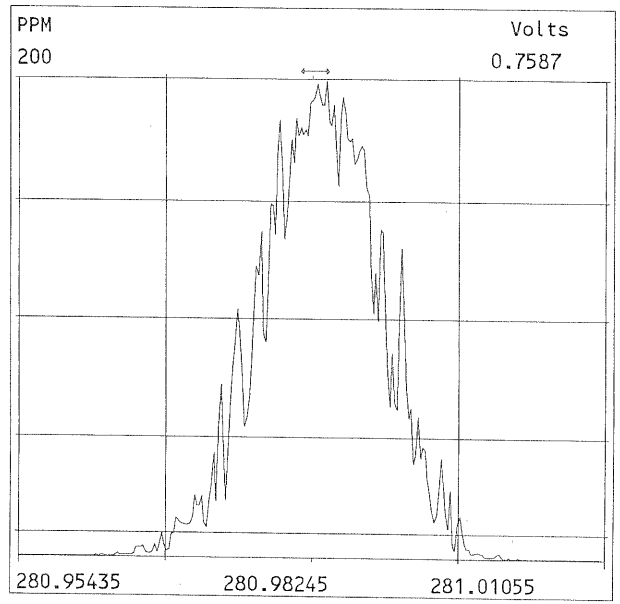




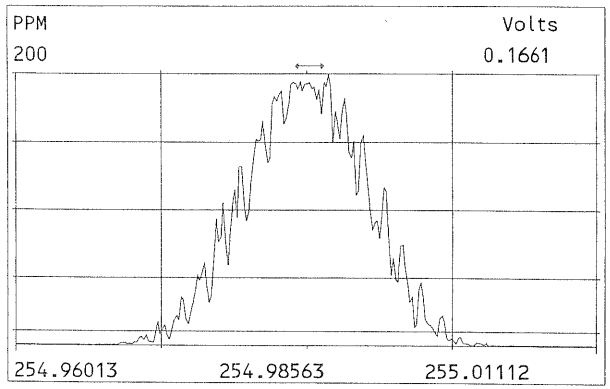


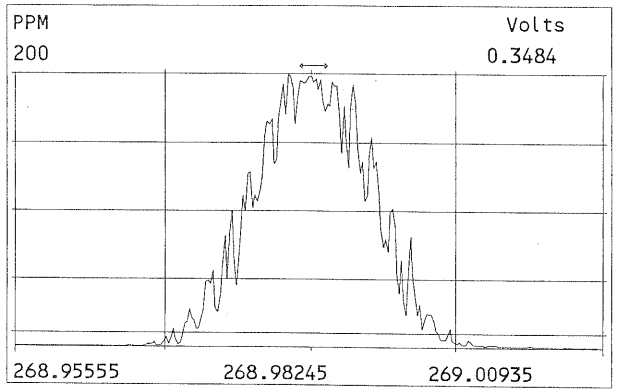


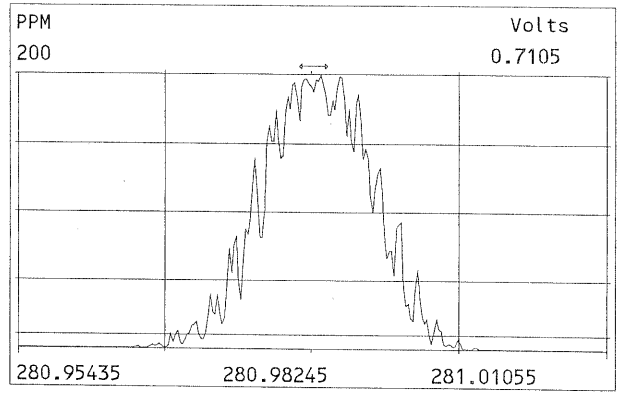


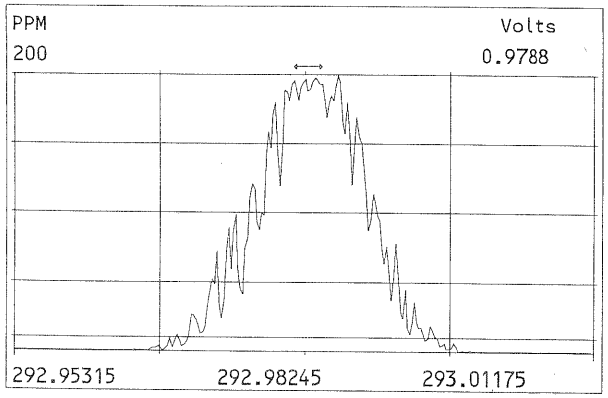


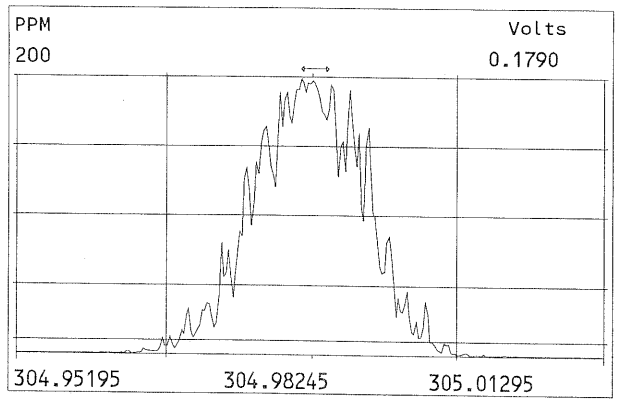
Peak Locate Examination:21-SEP-2016:22:51 File:21SEP16Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

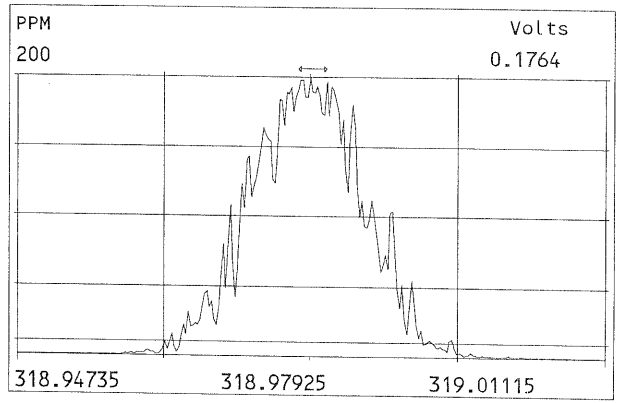


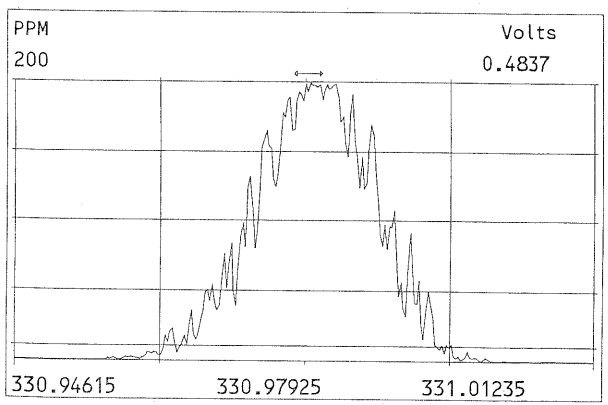


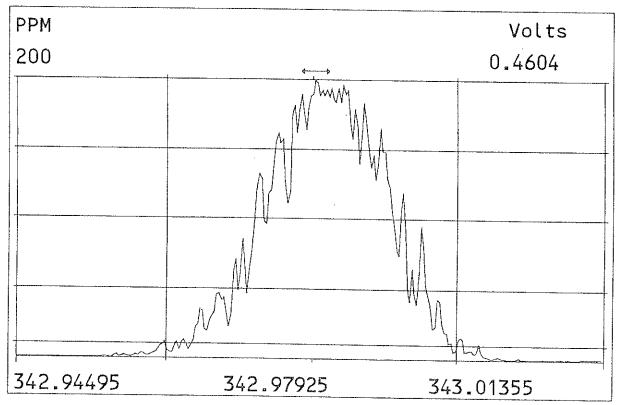




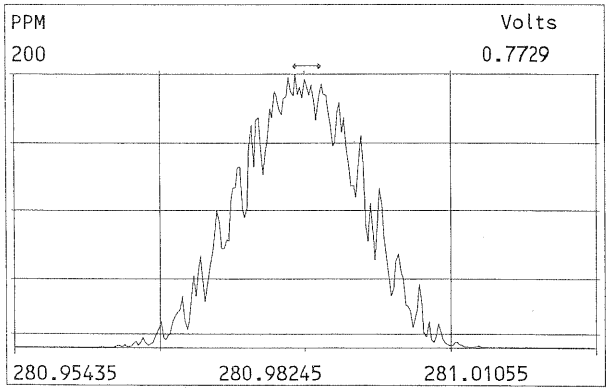


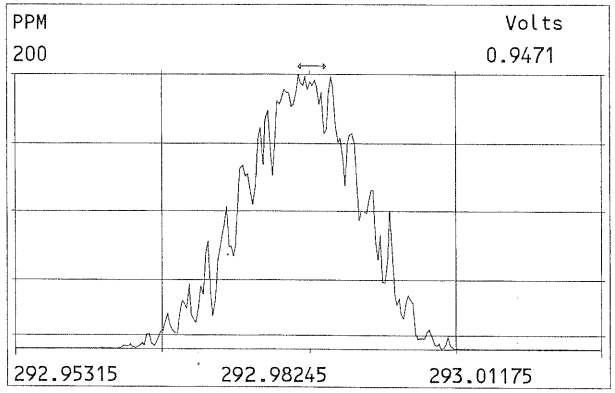


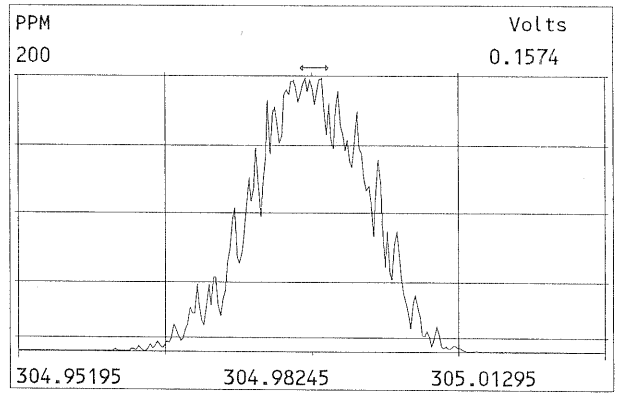


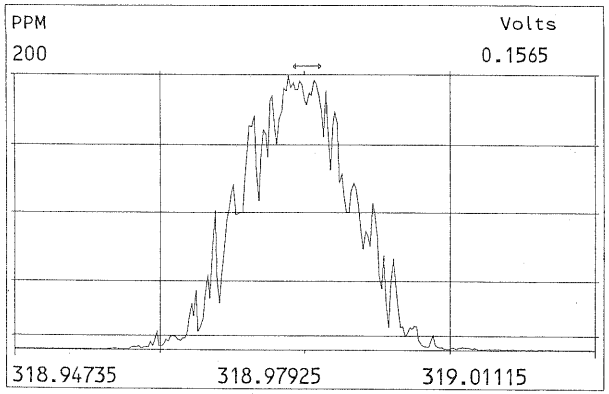


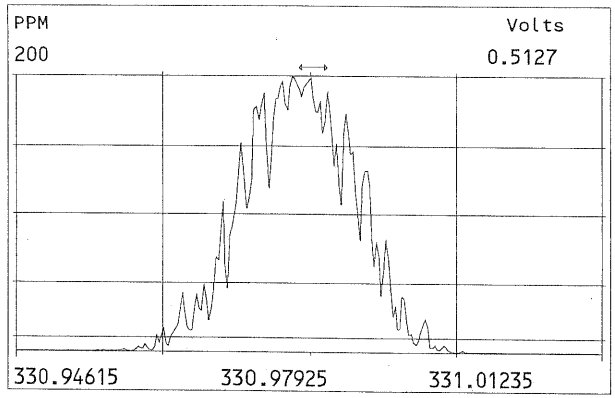
Peak Locate Examination:21-SEP-2016:22:51 File:21SEP16Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

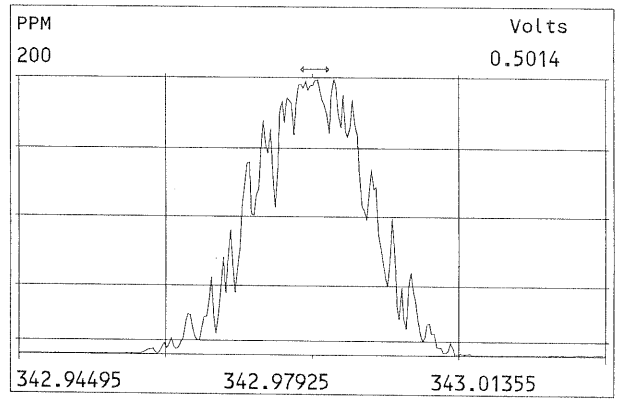


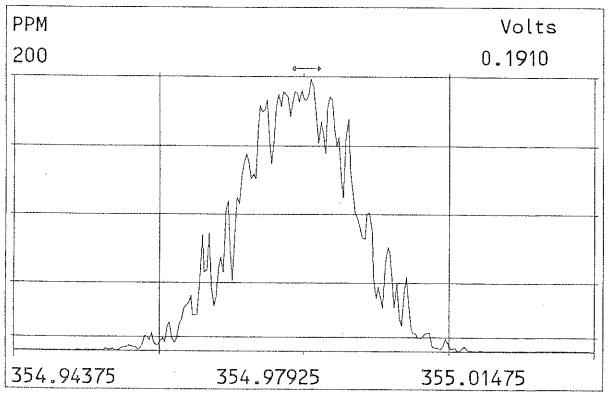


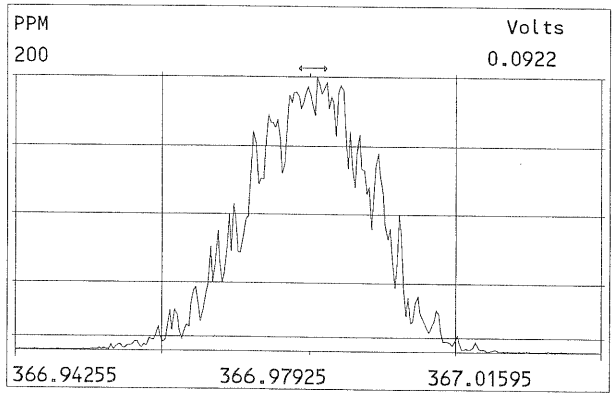


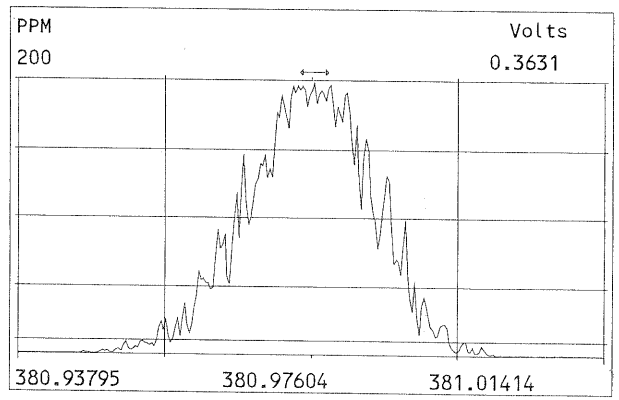




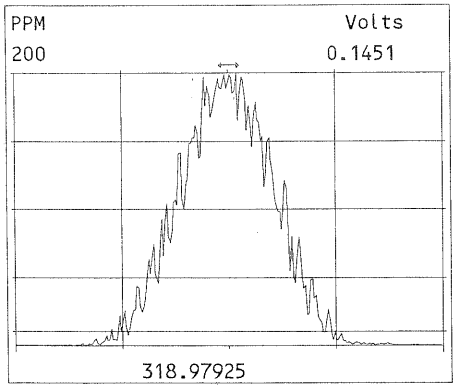


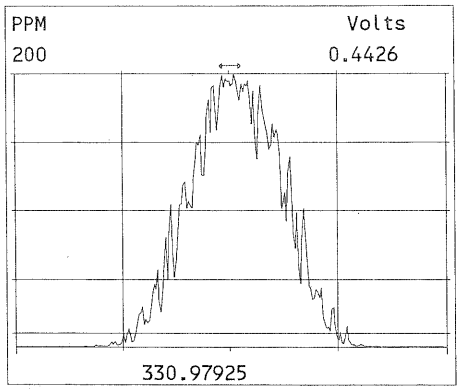


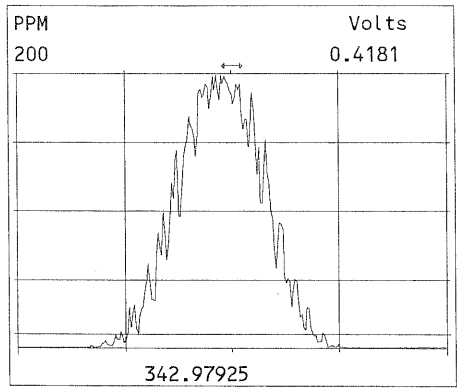


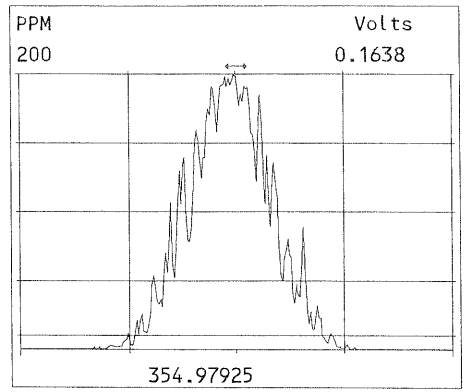


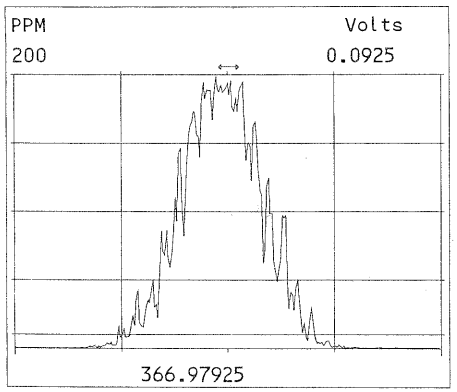
Peak Locate Examination:21-SEP-2016:22:52 File:21SEP16Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

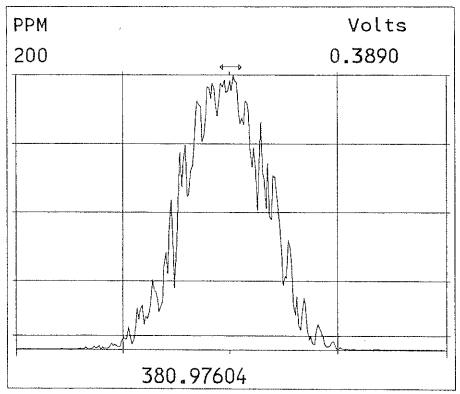


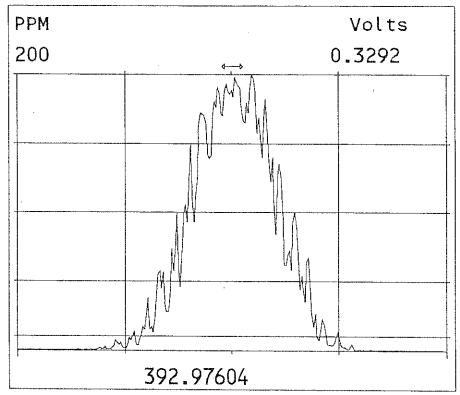


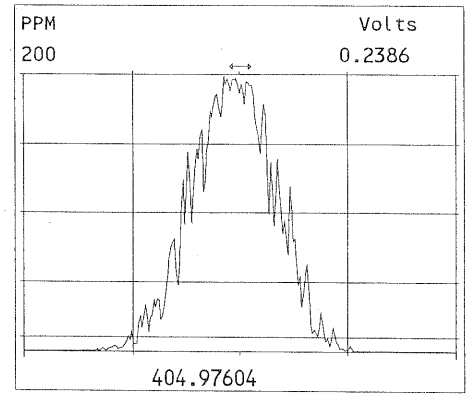


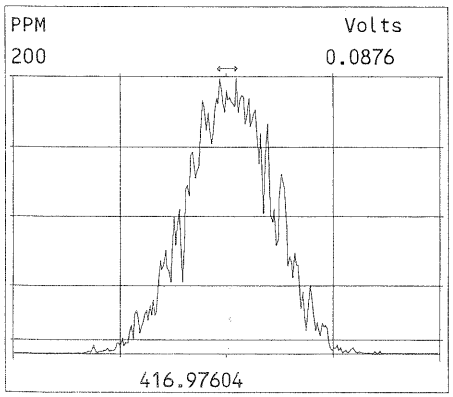


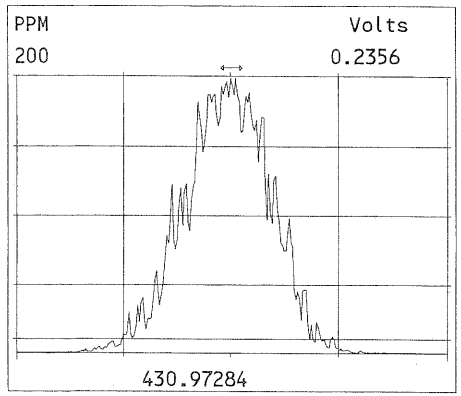


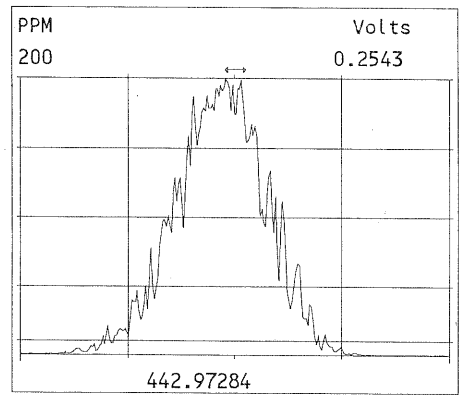




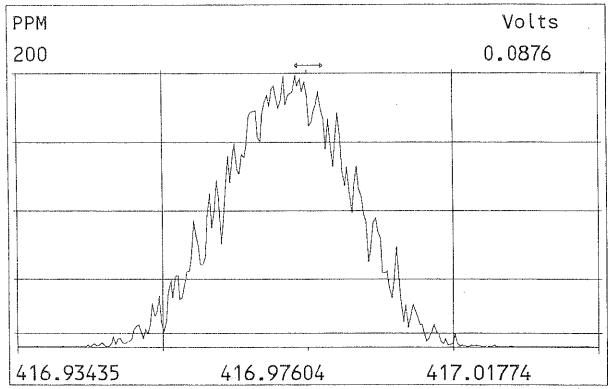


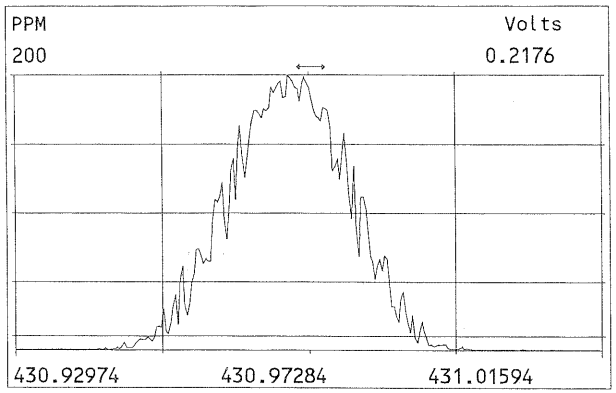


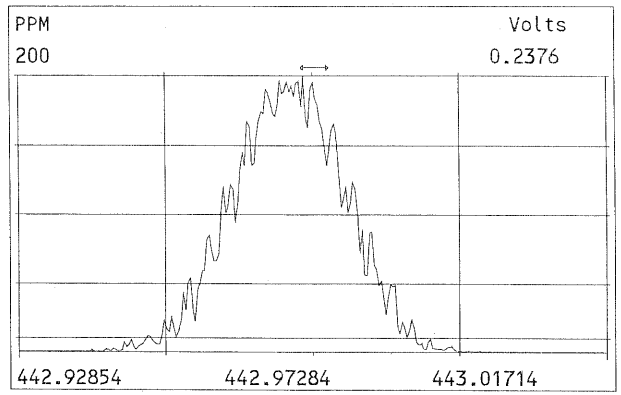


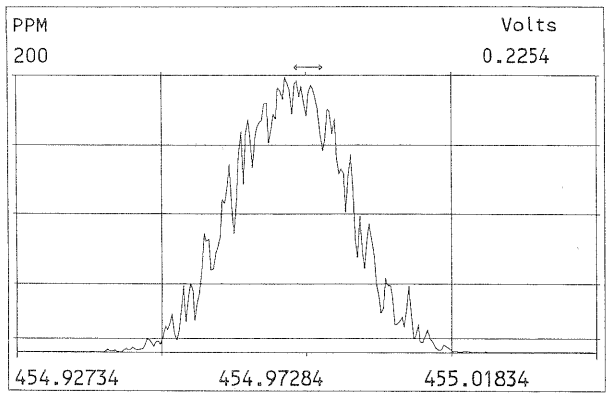


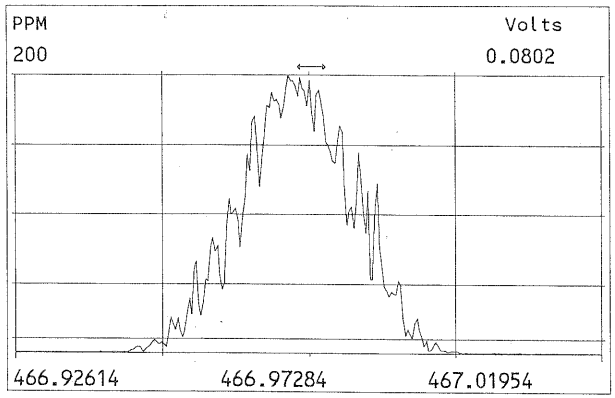
Peak Locate Examination:21-SEP-2016:22:53 File:21SEP16Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

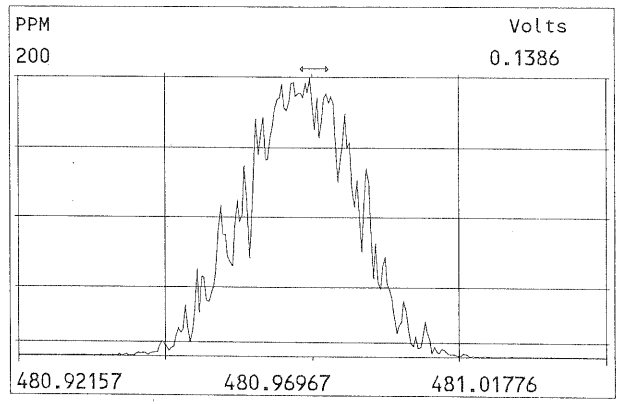


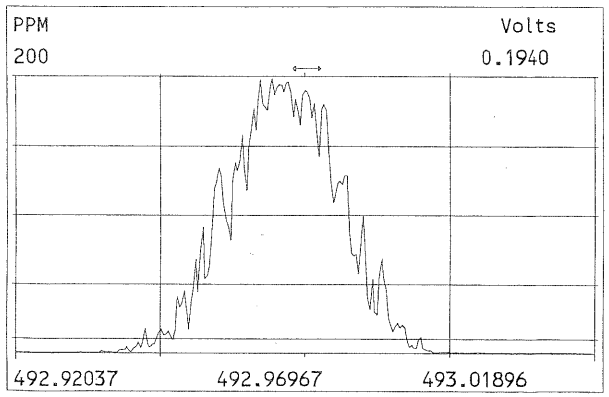


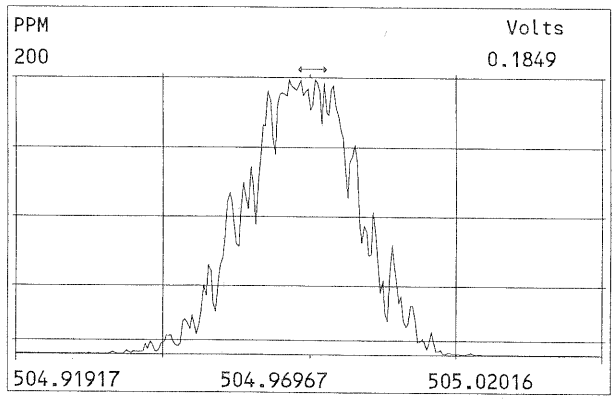


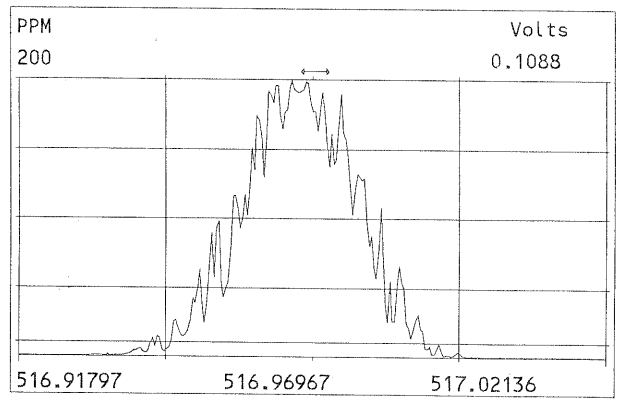












Cal: DAILY209FAL4-9-21-16

Run: 21SEP16Z Analyte: Results: 10146-2 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:21SEP16Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	0.9745	-	0.97	
13C-PCB-1	1.1752	-	1.18	
PCB-2	0.8043	-	0.80	
PCB-3	1.0569	-	1.06	
13C-PCB-3	1.0730	-	1.07	
PCB-4	1.1658	*	1.17	
PCB-10	1.2593	-	1.26	
13C-PCB-4	0.6338	-	0.63	
PCB-9	1.1291	*	1.13	
PCB-7	1.4490	-	1.45	
PCB-6	1.3464	*	1.35	
PCB-8	1.3594	*	1.36	
PCB-5	1.2110	*	1.21	
PCB-14	1.3113	-	1.31	
PCB-11	1.1237	-	1.12	
PCB-13	1.0220	*	1.02	
PCB-12	1.2362	-	1.24	
PCB-15	1.2262	-	1.23	
13C-PCB-15	0.8912	-	0.89	
PCB-19	1.0545	-	1.05	
PCB-30	1.4581	-	1.46	
PCB-18	0.9842	-	0.98	
PCB-17	1.1145	-	1.11	
PCB-27	1.3612	*	1.36	
PCB-24	1.4506	*	1.45	
PCB-16	1.1547	-	1.15	
PCB-32	1.3060	*	1.31	
13C-PCB-19	0.6733	-	0.67	
13C-PCB-9	-	-	-	
PCB-34	1.3027	-	1.30	
PCB-23	1.6135	-	1.61	
PCB-29	1.3627	-	1.36	
PCB-26	1.4744	-	1.47	
PCB-25	1.7911	-	1.79	
PCB-31	1.3859	-	1.39	
PCB-28	1.8434	-	1.84	
PCB-20	1.5203	-	1.52	Co-elute PCB 21/33
PCB-21	1.5203	-	1.52	Co-elute PCB 20/33
PCB-33	1.5203	-	1.52	Co-elute PCB 20/21
PCB-22	1.4465	-	1.45	
PCB-36	1.2698	-	1.27	
PCB-39	1.3200	-	1.32	
PCB-38	1.2904	-	1.29	
PCB-35	1.2503	-	1.25	
PCB-37	1.3488	-	1.35	
13C-PCB-37	0.8361	-	0.84	

PCB-54	1.0300	-	1.03	
PCB-50	0.7607	-	0.76	
PCB-53	0.7672	-	0.77	
PCB-51	0.7670	-	0.77	
PCB-45	0.6769	-	0.68	
PCB-46	0.6256	-	0.63	
PCB-52	0.8968	*	0.90	Co-elute PCB 69
PCB-69	0.8968	*	0.90	Co-elute PCB 52
PCB-73	0.9055	-	0.91	
PCB-43	0.7155	*	0.72	Co-elute PCB 49
PCB-49	0.7155	*	0.72	Co-elute PCB 43
PCB-47	0.8545	*	0.85	
PCB-48	0.9046	-	0.90	Co-elute PCB 75
PCB-75	0.9046	-	0.90	Co-elute PCB 48
PCB-65	0.9451	-	0.95	
PCB-62	0.8990	-	0.90	
PCB-44	0.6408	-	0.64	
PCB-42	0.8439	*	0.84	Co-elute PCB 59
PCB-59	0.8439	*	0.84	Co-elute PCB 42
PCB-72	0.9133	*	0.91	Co-elute PCB 41/71/64
PCB-41	0.9133	*	0.91	Co-elute PCB 72/71/64
PCB-71	0.9133	*	0.91	Co-elute PCB 72/41/64
PCB-64	0.9133	*	0.91	Co-elute PCB 72/41/71
PCB-68	0.9733	-	0.97	
PCB-40	0.5785	-	0.58	
PCB-57	0.8574	*	0.86	
PCB-67	0.9179	-	0.92	
PCB-58	0.8951	-	0.90	
PCB-63	0.9363	*	0.94	
PCB-74	0.9834	*	0.98	
PCB-61	0.9539	*	0.95	Co-elute PCB 70
PCB-70	0.9539	*	0.95	Co-elute PCB 61
PCB-76	0.9610	*	0.96	Co-elute PCB 66
PCB-66	0.9610	*	0.96	Co-elute PCB 76
PCB-80	1.0243	-	1.02	
PCB-55	0.9101	-	0.91	
13C-PCB-54	1.2008	-	1.20	
PCB-104	1.0941	-	1.09	
PCB-96	0.9978	-	1.00	
PCB-103	0.8117	-	0.81	
PCB-100	0.8236	-	0.82	
PCB-94	0.6959	-	0.70	
PCB-98	0.8588	-	0.86	Co-elute PCB 102
PCB-102	0.8588	-	0.86	Co-elute PCB 98
PCB-95	0.7485	-	0.75	
PCB-93	0.7126	-	0.71	
PCB-88	0.7393	-	0.74	Co-elute PCB 91
PCB-91	0.7393	-	0.74	Co-elute PCB 88
PCB-121	0.9788	-	0.98	
13C-PCB-104	0.9948	-	0.99	
13C-PCB-28	1.1142	-	1.11	
13C-PCB-52	-	-	-	

PCB-56	1.1309	-	1.13	Co-elute PCB 60
PCB-60	1.1309	-	1.13	Co-elute PCB 56
PCB-79	1.0582	-	1.06	
PCB-78	0.9629	-	0.96	
PCB-81	1.0506	-	1.05	
13C-PCB-81	0.9711	-	0.97	
PCB-77	0.9800	-	0.98	
13C-PCB-77	0.9790	-	0.98	
PCB-155	1.0516	-	1.05	
PCB-150	0.9479	-	0.95	
PCB-152	0.9429	-	0.94	
PCB-145	0.9236	-	0.92	
PCB-136	0.8972	-	0.90	
PCB-148	0.7281	-	0.73	
PCB-154	0.8336	-	0.83	
13C-PCB-155	1.1284	-	1.13	
13C-PCB-111	1.1112	-	1.11	
13C-PCB-101	-	-	-	
PCB-84	0.8773	-	0.88	Co-elute PCB 92
PCB-92	0.8773	-	0.88	Co-elute PCB 84
PCB-89	0.8385	-	0.84	
PCB-90	0.9854	-	0.99	Co-elute PCB 101
PCB-101	0.9854	-	0.99	Co-elute PCB 90
PCB-113	1.1039	-	1.10	
PCB-99	1.0700	-	1.07	
PCB-119	1.1791	-	1.18	
PCB-83	0.9956	-	1.00	Co-elute PCB 112
PCB-112	0.9956	-	1.00	Co-elute PCB 83
PCB-109	1.1814	-	1.18	
PCB-97	1.0433	-	1.04	
PCB-86	0.9615	*	0.96	
PCB-125	1.0573	-	1.06	Co-elute PCB 87/117
PCB-87	1.0573	-	1.06	Co-elute PCB 125/117
PCB-117	1.0573	-	1.06	Co-elute PCB 125/87
PCB-111	1.3973	-	1.40	Co-elute PCB 115
PCB-115	1.3973	-	1.40	Co-elute PCB 111
PCB-85	1.0099	-	1.01	Co-elute PCB 116
PCB-116	1.0099	-	1.01	Co-elute PCB 85
PCB-120	1.1849	-	1.18	
PCB-110	1.3408	-	1.34	
PCB-82	0.7254	-	0.73	
PCB-124	0.9807	-	0.98	
PCB-108	1.0495	-	1.05	Co-elute PCB 107
PCB-107	1.0495	-	1.05	Co-elute PCB 108
PCB-123	1.2486	-	1.25	
13C-PCB-123	1.0505	-	1.05	
PCB-118	0.9642	-	0.96	Co-elute PCB 106
PCB-106	0.9642	-	0.96	Co-elute PCB 118
13C-PCB-118	1.1364	-	1.14	
PCB-114	1.0409	-	1.04	
13C-PCB-114	1.0789	-	1.08	
PCB-122	1.0487	-	1.05	
PCB-105	1.0347	-	1.03	
13C-PCB-105	1.0643	-	1.06	
PCB-127	0.9537	-	0.95	
PCB-126	1.0370	-	1.04	
13C-PCB-126	1.0031	-	1.00	

PCB-151	0.8246	-	0.82	
PCB-135	0.7333	*	0.73	
PCB-144	0.9560	-	0.96	
PCB-147	0.8633	-	0.86	
PCB-139	0.8952	-	0.90	Co-elute PCB 149
PCB-149	0.8952	-	0.90	Co-elute PCB 139
PCB-140	0.8469	*	0.85	
PCB-143	0.8060	-	0.81	Co-elute PCB 134
PCB-134	0.8060	-	0.81	Co-elute PCB 143
PCB-131	0.8167	-	0.82	Co-elute PCB 133
PCB-133	0.8167	-	0.82	Co-elute PCB 131
PCB-142	0.6915	-	0.69	
PCB-165	0.9546	-	0.95	Co-elute PCB 146
PCB-146	0.9546	-	0.95	Co-elute PCB 165
PCB-161	0.8976	-	0.90	Co-elute PCB 132
PCB-132	0.8976	-	0.90	Co-elute PCB 161
PCB-153	0.9560	-	0.96	
PCB-168	1.0542	*	1.05	
PCB-141	0.8054	*	0.81	
PCB-137	0.7741	-	0.77	
PCB-130	0.7160	-	0.72	
PCB-138	1.0665	*	1.07	Co-elute PCB 163/164
PCB-163	1.0665	*	1.07	Co-elute PCB 138/164
PCB-164	1.0665	*	1.07	Co-elute PCB 138/163
PCB-158	1.0613	*	1.06	Co-elute PCB 160
PCB-160	1.0613	*	1.06	Co-elute PCB 158
PCB-129	0.6845	-	0.68	
PCB-166	0.9978	-	1.00	
PCB-159	1.0584	-	1.06	
PCB-128	0.8774	*	0.88	Co-elute PCB 162
PCB-162	0.8774	*	0.88	Co-elute PCB 128
PCB-167	0.9648	*	0.96	
13C-PCB-167	1.1638	-	1.16	
PCB-156	1.0141	-	1.01	
13C-PCB-156	1.1060	-	1.11	
PCB-157	1.0260	-	1.03	
13C-PCB-157	1.1284	-	1.13	
PCB-169	0.9641	-	0.96	
13C-PCB-169	1.0460	-	1.05	
PCB-188	1.0897	-	1.09	
13C-PCB-188	1.2917	-	1.29	

PCB-184	1.2280	-	1.23	
PCB-179	1.1684	-	1.17	
PCB-176	1.1395	-	1.14	
PCB-186	1.1398	-	1.14	
PCB-178	0.8156	-	0.82	
PCB-175	0.8511	-	0.85	
PCB-187	0.9301	-	0.93	Co-elute PCB 182
PCB-182	0.9301	-	0.93	Co-elute PCB 187
PCB-183	0.9197	-	0.92	
PCB-185	0.8432	-	0.84	
PCB-174	0.8676	-	0.87	
PCB-181	0.8353	*	0.84	
PCB-177	0.7734	-	0.77	
PCB-171	0.8229	-	0.82	
PCB-173	0.7455	-	0.75	
PCB-172	0.7467	-	0.75	
PCB-192	1.0032	-	1.00	
PCB-180	0.9795	-	0.98	
PCB-193	1.0836	-	1.08	
PCB-191	1.0402	-	1.04	
PCB-170	0.7194	-	0.72	
PCB-190	0.9759	-	0.98	
PCB-189	1.0947	-	1.09	
13C-PCB-189	1.0045	-	1.00	
PCB-202	0.9345	-	0.93	
PCB-201	0.9332	-	0.93	
PCB-204	0.9311	-	0.93	
PCB-197	0.9644	-	0.96	
PCB-200	0.9110	-	0.91	
PCB-198	0.6139	-	0.61	
PCB-199	0.7037	-	0.70	
PCB-203	0.7223	-	0.72	Co-elute PCB 196
PCB-196	0.7223	-	0.72	Co-elute PCB 203
13C-PCB-202	1.1337	-	1.13	
13C-PCB-178	0.8638	-	0.86	
13C-PCB-138	-	-	-	
PCB-195	0.7907	-	0.79	
PCB-194	0.8203	-	0.82	
PCB-205	1.0811	-	1.08	
13C-PCB-205	1.2618	-	1.26	
PCB-208	1.0154	-	1.02	
13C-PCB-208	1.2659	-	1.27	
PCB-207	1.1281	-	1.13	
PCB-206	1.0284	-	1.03	
13C-PCB-206	0.9032	-	0.90	
PCB-209	1.0586	-	1.06	
13C-PCB-209	1.3702	-	1.37	
13C-PCB-194	-	-	-	

Analyst: _____ Date: 9/22/16

Run #1 Filename 21SEP16Z S: 2 Acquired: 21-SEP-16 16:53:12 Cal: DAILY209FAL4-9-21-16
Client ID: SS092116Z1 Analyte: FAL ID: Daily 209 160711B

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	5.39e+07	3.08 y	14:31	-	0.974	
2	IS/RT	13C-PCB-1	100.00	1.11e+08	2.99 y	14:30	-	1.18	
3	Unk	PCB-2	50.00	4.25e+07	3.09 y	16:46	-	0.804	
4	Unk	PCB-3	50.00	5.33e+07	3.11 y	16:59	-	1.06	
5	IS/RT	13C-PCB-3	100.00	1.01e+08	3.23 y	16:58	-	1.07	
6	Unk	PCB-4	50.00	3.48e+07	1.46 y	18:13	-	1.17	
7	Unk	PCB-10	50.00	4.52e+07	1.48 y	18:15	-	1.26	
8	IS/RT	13C-PCB-4	100.00	5.96e+07	1.54 y	18:10	-	0.634	
9	Unk	PCB-9	50.00	4.05e+07	1.48 y	19:54	-	1.13	
10	Unk	PCB-7	50.00	5.20e+07	1.46 y	19:55	-	1.45	
11	Unk	PCB-6	50.00	4.83e+07	1.49 y	20:31	-	1.35	
12	Unk	PCB-8	50.00	4.88e+07	1.47 y	20:55	-	1.36	
13	Unk	PCB-5	50.00	4.34e+07	1.44 y	20:56	-	1.21	
14	Unk	PCB-14	50.00	4.70e+07	1.45 y	21:58	-	1.31	
15	Unk	PCB-11	50.00	4.03e+07	1.38 y	23:07	-	1.12	
16	Unk	PCB-13	50.00	3.67e+07	1.46 y	23:29	-	1.02	
17	Unk	PCB-12	50.00	4.43e+07	1.42 y	23:30	-	1.24	
18	Unk	PCB-15	50.00	5.14e+07	1.65 y	23:46	-	1.23	
19	IS/RT	13C-PCB-15	100.00	8.38e+07	1.62 y	23:45	-	0.891	
20	Unk	PCB-19	50.00	3.34e+07	1.05 y	22:04	-	1.05	
21	Unk	PCB-30	50.00	4.62e+07	1.04 y	22:56	-	1.46	
22	Unk	PCB-18	50.00	3.12e+07	1.03 y	23:38	-	0.984	
23	Unk	PCB-17	50.00	3.53e+07	1.04 y	23:48	-	1.11	
24	Unk	PCB-27	50.00	4.31e+07	1.03 y	24:20	-	1.36	
25	Unk	PCB-24	50.00	4.59e+07	1.02 y	24:21	-	1.45	
26	Unk	PCB-16	50.00	3.66e+07	0.98 y	24:49	-	1.15	
27	Unk	PCB-32	50.00	4.14e+07	1.08 y	24:50	-	1.31	
28	IS/RT	13C-PCB-19	100.00	6.33e+07	1.04 y	22:03	-	0.673	
29	RS	13C-PCB-9	100.00	9.41e+07	1.60 y	19:52	9.41e+05	-	
30	Unk	PCB-34	50.00	3.37e+07	1.02 y	25:35	-	1.30	
31	Unk	PCB-23	50.00	4.17e+07	1.04 y	25:41	-	1.61	
32	Unk	PCB-29	50.00	3.52e+07	1.04 y	25:55	-	1.36	
33	Unk	PCB-26	50.00	3.81e+07	1.01 y	26:07	-	1.47	
34	Unk	PCB-25	50.00	4.63e+07	1.03 y	26:17	-	1.79	
35	Unk	PCB-31	50.00	3.58e+07	1.01 y	26:37	-	1.39	
36	Unk	PCB-28	50.00	4.76e+07	1.05 y	26:42	-	1.84	
37	Unk	PCB-20	150.00	1.18e+08	1.02 y	27:18	-	1.52	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	1.18e+08	1.02 y	27:18	-	1.52	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	1.18e+08	1.02 y	27:18	-	1.52	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	3.74e+07	1.01 y	27:43	-	1.45	
41	Unk	PCB-36	50.00	3.28e+07	1.03 y	28:20	-	1.27	
42	Unk	PCB-39	50.00	3.41e+07	1.03 y	28:47	-	1.32	
43	Unk	PCB-38	50.00	3.33e+07	1.00 y	29:30	-	1.29	
44	Unk	PCB-35	50.00	3.23e+07	0.97 y	30:01	-	1.25	
45	Unk	PCB-37	50.00	3.49e+07	0.98 y	30:26	-	1.35	
46	IS	13C-PCB-37	100.00	5.17e+07	1.13 y	30:23	-	0.836	

47	Unk	PCB-54	100.00	7.65e+07	0.78 y	25:36	-	1.03	
48	Unk	PCB-50	100.00	5.65e+07	0.78 y	26:43	-	0.761	
49	Unk	PCB-53	100.00	5.70e+07	0.78 y	27:19	-	0.767	
50	Unk	PCB-51	100.00	5.69e+07	0.78 y	27:39	-	0.767	
51	Unk	PCB-45	100.00	5.03e+07	0.78 y	28:03	-	0.677	
52	Unk	PCB-46	100.00	4.64e+07	0.79 y	28:31	-	0.626	
53	Unk	PCB-52	200.00	1.33e+08	0.77 y	28:59	-	0.897	Co-elute PCB 69
54	Unk	PCB-69	200.00	1.33e+08	0.77 y	28:59	-	0.897	Co-elute PCB 52
55	Unk	PCB-73	100.00	6.72e+07	0.79 y	29:05	-	0.905	
56	Unk	PCB-43	200.00	1.06e+08	0.78 y	29:15	-	0.716	Co-elute PCB 49
57	Unk	PCB-49	200.00	1.06e+08	0.78 y	29:15	-	0.716	Co-elute PCB 43
58	Unk	PCB-47	100.00	6.34e+07	0.77 y	29:27	-	0.854	
59	Unk	PCB-48	200.00	1.34e+08	0.78 y	29:33	-	0.905	Co-elute PCB 75
60	Unk	PCB-75	200.00	1.34e+08	0.78 y	29:33	-	0.905	Co-elute PCB 48
61	Unk	PCB-65	100.00	7.02e+07	0.76 y	29:48	-	0.945	
62	Unk	PCB-62	100.00	6.67e+07	0.78 y	29:54	-	0.899	
63	Unk	PCB-44	100.00	4.76e+07	0.78 y	30:12	-	0.641	
64	Unk	PCB-42	200.00	1.25e+08	0.78 y	30:25	-	0.844	Co-elute PCB 59
65	Unk	PCB-59	200.00	1.25e+08	0.78 y	30:25	-	0.844	Co-elute PCB 42
66	Unk	PCB-72	400.00	2.71e+08	0.77 y	30:58	-	0.913	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	2.71e+08	0.77 y	30:58	-	0.913	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	2.71e+08	0.77 y	30:58	-	0.913	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	2.71e+08	0.77 y	30:58	-	0.913	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	7.23e+07	0.78 y	31:13	-	0.973	
71	Unk	PCB-40	100.00	4.29e+07	0.78 y	31:25	-	0.578	
72	Unk	PCB-57	100.00	6.36e+07	0.80 y	31:46	-	0.857	
73	Unk	PCB-67	100.00	6.81e+07	0.77 y	32:03	-	0.918	
74	Unk	PCB-58	100.00	6.65e+07	0.79 y	32:10	-	0.895	
75	Unk	PCB-63	100.00	6.95e+07	0.78 y	32:20	-	0.936	
76	Unk	PCB-74	100.00	7.30e+07	0.77 y	32:36	-	0.983	
77	Unk	PCB-61	200.00	1.42e+08	0.78 y	32:48	-	0.954	Co-elute PCB 70
78	Unk	PCB-70	200.00	1.42e+08	0.78 y	32:48	-	0.954	Co-elute PCB 61
79	Unk	PCB-76	200.00	1.43e+08	0.78 y	32:55	-	0.961	Co-elute PCB 66
80	Unk	PCB-66	200.00	1.43e+08	0.78 y	32:55	-	0.961	Co-elute PCB 76
81	Unk	PCB-80	100.00	7.60e+07	0.78 y	33:12	-	1.02	
82	Unk	PCB-55	100.00	6.76e+07	0.78 y	33:29	-	0.910	
83	IS/RT	13C-PCB-54	100.00	7.42e+07	0.79 y	25:35	-	1.20	
84	Unk	PCB-104	100.00	6.73e+07	1.58 y	30:02	-	1.09	
85	Unk	PCB-96	100.00	6.14e+07	1.59 y	31:14	-	0.998	
86	Unk	PCB-103	100.00	4.99e+07	1.60 y	31:44	-	0.812	
87	Unk	PCB-100	100.00	5.07e+07	1.59 y	32:06	-	0.824	
88	Unk	PCB-94	100.00	4.28e+07	1.58 y	32:31	-	0.696	
89	Unk	PCB-98	200.00	1.06e+08	1.60 y	32:59	-	0.859	Co-elute PCB 102
90	Unk	PCB-102	200.00	1.06e+08	1.60 y	32:59	-	0.859	Co-elute PCB 98
91	Unk	PCB-95	100.00	4.60e+07	1.57 y	33:01	-	0.748	
92	Unk	PCB-93	100.00	4.38e+07	1.61 y	33:06	-	0.713	
93	Unk	PCB-88	200.00	9.09e+07	1.58 y	33:25	-	0.739	Co-elute PCB 91
94	Unk	PCB-91	200.00	9.09e+07	1.58 y	33:25	-	0.739	Co-elute PCB 88
95	Unk	PCB-121	100.00	6.02e+07	1.56 y	33:29	-	0.979	
96	IS	13C-PCB-104	100.00	6.15e+07	1.58 y	30:01	-	0.995	
97	C/Up	13C-PCB-28	100.00	6.89e+07	1.10 y	26:41	-	1.11	
98	RS	13C-PCB-52	100.00	6.18e+07	0.80 y	28:56	6.18e+05	-	
99	Unk	PCB-56	200.00	1.27e+08	0.75 y	33:58	-	1.13	Co-elute PCB 60
100	Unk	PCB-60	200.00	1.27e+08	0.75 y	33:58	-	1.13	Co-elute PCB 56

101	Unk	PCB-79	100.00	5.94e+07	0.74	y	35:01	-	1.06	
102	Unk	PCB-78	100.00	5.41e+07	0.74	y	35:40	-	0.963	
103	Unk	PCB-81	100.00	5.87e+07	0.74	y	36:11	-	1.05	
104	IS	13C-PCB-81	100.00	5.59e+07	0.80	y	36:10	-	0.971	
105	Unk	PCB-77	100.00	5.52e+07	0.76	y	36:44	-	0.980	
106	IS/RT	13C-PCB-77	100.00	5.64e+07	0.80	y	36:44	-	0.979	
107	Unk	PCB-155	100.00	6.83e+07	1.27	y	34:12	-	1.05	
108	Unk	PCB-150	100.00	6.16e+07	1.27	y	35:24	-	0.948	
109	Unk	PCB-152	100.00	6.12e+07	1.27	y	35:51	-	0.943	
110	Unk	PCB-145	100.00	6.00e+07	1.26	y	36:16	-	0.924	
111	Unk	PCB-136	100.00	5.83e+07	1.25	y	36:35	-	0.897	
112	Unk	PCB-148	100.00	4.73e+07	1.28	y	36:40	-	0.728	
113	Unk	PCB-154	100.00	5.42e+07	1.27	y	37:09	-	0.834	
114	IS	13C-PCB-155	100.00	6.50e+07	1.29	y	34:11	-	1.13	
115	C/Up	13C-PCB-111	100.00	6.40e+07	1.61	y	36:16	-	1.11	
116	RS	13C-PCB-101	100.00	5.76e+07	1.58	y	34:37	5.76e+05	-	
117	Unk	PCB-84	200.00	9.08e+07	1.55	y	34:17	-	0.877	Co-elute PCB 92
118	Unk	PCB-92	200.00	9.08e+07	1.55	y	34:17	-	0.877	Co-elute PCB 84
119	Unk	PCB-89	100.00	4.34e+07	1.55	y	34:28	-	0.839	
120	Unk	PCB-90	200.00	1.02e+08	1.55	y	34:39	-	0.985	Co-elute PCB 101
121	Unk	PCB-101	200.00	1.02e+08	1.55	y	34:39	-	0.985	Co-elute PCB 90
122	Unk	PCB-113	100.00	5.71e+07	1.54	y	34:52	-	1.10	
123	Unk	PCB-99	100.00	5.54e+07	1.55	y	34:57	-	1.07	
124	Unk	PCB-119	100.00	6.10e+07	1.55	y	35:24	-	1.18	
125	Unk	PCB-83	200.00	1.03e+08	1.55	y	35:33	-	0.996	Co-elute PCB 112
126	Unk	PCB-112	200.00	1.03e+08	1.55	y	35:33	-	0.996	Co-elute PCB 83
127	Unk	PCB-109	100.00	6.11e+07	1.55	y	35:43	-	1.18	
128	Unk	PCB-97	100.00	5.40e+07	1.61	y	35:53	-	1.04	
129	Unk	PCB-86	100.00	4.98e+07	1.45	y	36:02	-	0.962	
130	Unk	PCB-125	300.00	1.64e+08	1.57	y	36:10	-	1.06	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	1.64e+08	1.57	y	36:10	-	1.06	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	1.64e+08	1.57	y	36:10	-	1.06	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	1.45e+08	1.55	y	36:18	-	1.40	Co-elute PCB 115
134	Unk	PCB-115	200.00	1.45e+08	1.55	y	36:18	-	1.40	Co-elute PCB 111
135	Unk	PCB-85	200.00	1.05e+08	1.56	y	36:26	-	1.01	Co-elute PCB 116
136	Unk	PCB-116	200.00	1.05e+08	1.56	y	36:26	-	1.01	Co-elute PCB 85
137	Unk	PCB-120	100.00	6.13e+07	1.55	y	36:39	-	1.18	
138	Unk	PCB-110	100.00	6.94e+07	1.56	y	36:46	-	1.34	
139	Unk	PCB-82	100.00	3.75e+07	1.54	y	37:23	-	0.725	
140	Unk	PCB-124	100.00	5.07e+07	1.48	y	38:02	-	0.981	
141	Unk	PCB-108	200.00	1.09e+08	1.50	y	38:10	-	1.05	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.09e+08	1.50	y	38:10	-	1.05	Co-elute PCB 108
143	Unk	PCB-123	100.00	6.27e+07	1.50	y	38:20	-	1.25	
144	IS	13C-PCB-123	100.00	5.02e+07	1.58	y	38:20	-	1.05	
145	Unk	PCB-118	200.00	1.05e+08	1.49	y	38:33	-	0.964	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.05e+08	1.49	y	38:33	-	0.964	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	5.43e+07	1.58	y	38:30	-	1.14	
148	Unk	PCB-114	100.00	5.37e+07	1.52	y	39:08	-	1.04	
149	IS	13C-PCB-114	100.00	5.16e+07	1.56	y	39:08	-	1.08	
150	Unk	PCB-122	100.00	5.43e+07	1.47	y	39:16	-	1.05	
151	Unk	PCB-105	100.00	5.26e+07	1.48	y	39:57	-	1.03	
152	IS	13C-PCB-105	100.00	5.09e+07	1.60	y	39:57	-	1.06	
153	Unk	PCB-127	100.00	4.93e+07	1.47	y	40:18	-	0.954	
154	Unk	PCB-126	100.00	4.97e+07	1.51	y	42:07	-	1.04	
155	IS	13C-PCB-126	100.00	4.79e+07	1.59	y	42:05	-	1.00	

156	Unk	PCB-151	100.00	4.38e+07	1.25	y	37:45	-	0.825	
157	Unk	PCB-135	100.00	3.89e+07	1.24	y	37:59	-	0.733	
158	Unk	PCB-144	100.00	5.08e+07	1.26	y	40:04	-	0.956	
159	Unk	PCB-147	100.00	4.59e+07	1.26	y	38:12	-	0.863	
160	Unk	PCB-139	200.00	9.51e+07	1.25	y	38:27	-	0.895	Co-elute PCB 149
161	Unk	PCB-149	200.00	9.51e+07	1.25	y	38:27	-	0.895	Co-elute PCB 139
162	Unk	PCB-140	100.00	4.50e+07	1.25	y	38:38	-	0.847	
163	Unk	PCB-143	200.00	8.56e+07	1.25	y	39:01	-	0.806	Co-elute PCB 134
164	Unk	PCB-134	200.00	8.56e+07	1.25	y	39:01	-	0.806	Co-elute PCB 143
165	Unk	PCB-131	200.00	8.67e+07	1.25	y	39:19	-	0.817	Co-elute PCB 133
166	Unk	PCB-133	200.00	8.67e+07	1.25	y	39:19	-	0.817	Co-elute PCB 131
167	Unk	PCB-142	100.00	3.67e+07	1.24	y	39:29	-	0.691	
168	Unk	PCB-165	200.00	1.01e+08	1.26	y	39:41	-	0.955	Co-elute PCB 146
169	Unk	PCB-146	200.00	1.01e+08	1.26	y	39:41	-	0.955	Co-elute PCB 165
170	Unk	PCB-161	200.00	9.53e+07	1.25	y	39:54	-	0.898	Co-elute PCB 132
171	Unk	PCB-132	200.00	9.53e+07	1.25	y	39:54	-	0.898	Co-elute PCB 161
172	Unk	PCB-153	100.00	5.08e+07	1.26	y	40:04	-	0.956	
173	Unk	PCB-168	100.00	5.60e+07	1.25	y	40:17	-	1.05	
174	Unk	PCB-141	100.00	4.28e+07	1.25	y	40:46	-	0.805	
175	Unk	PCB-137	100.00	4.11e+07	1.23	y	41:08	-	0.774	
176	Unk	PCB-130	100.00	3.80e+07	1.26	y	41:14	-	0.716	
177	Unk	PCB-138	300.00	1.70e+08	1.25	y	41:36	-	1.07	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	1.70e+08	1.25	y	41:36	-	1.07	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	1.70e+08	1.25	y	41:36	-	1.07	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	1.13e+08	1.25	y	41:49	-	1.06	Co-elute PCB 160
181	Unk	PCB-160	200.00	1.13e+08	1.25	y	41:49	-	1.06	Co-elute PCB 158
182	Unk	PCB-129	100.00	3.64e+07	1.25	y	42:02	-	0.685	
183	Unk	PCB-166	100.00	5.30e+07	1.26	y	42:30	-	0.998	
184	Unk	PCB-159	100.00	5.62e+07	1.27	y	42:48	-	1.06	
185	Unk	PCB-128	200.00	9.32e+07	1.25	y	43:05	-	0.877	Co-elute PCB 162
186	Unk	PCB-162	200.00	9.32e+07	1.25	y	43:05	-	0.877	Co-elute PCB 128
187	Unk	PCB-167	100.00	5.37e+07	1.24	y	43:28	-	0.965	
188	IS	13C-PCB-167	100.00	5.56e+07	1.25	y	43:26	-	1.16	
189	Unk	PCB-156	100.00	5.36e+07	1.24	y	44:40	-	1.01	
190	IS	13C-PCB-156	100.00	5.29e+07	1.25	y	44:40	-	1.11	
191	Unk	PCB-157	100.00	5.53e+07	1.24	y	44:57	-	1.03	
192	IS	13C-PCB-157	100.00	5.39e+07	1.24	y	44:55	-	1.13	
193	Unk	PCB-169	100.00	4.82e+07	1.25	y	46:50	-	0.964	
194	IS	13C-PCB-169	100.00	5.00e+07	1.25	y	46:50	-	1.05	
195	Unk	PCB-188	100.00	6.73e+07	1.05	y	39:42	-	1.09	
196	IS	13C-PCB-188	100.00	6.17e+07	1.07	y	39:41	-	1.29	

197	Unk	PCB-184	100.00	6.74e+07	1.04 y	40:07	-	1.23	
198	Unk	PCB-179	100.00	6.41e+07	1.06 y	40:51	-	1.17	
199	Unk	PCB-176	100.00	6.25e+07	1.05 y	41:18	-	1.14	
200	Unk	PCB-186	100.00	6.26e+07	1.05 y	41:54	-	1.14	
201	Unk	PCB-178	100.00	4.48e+07	1.06 y	42:20	-	0.816	
202	Unk	PCB-175	100.00	4.67e+07	1.05 y	42:40	-	0.851	
203	Unk	PCB-187	200.00	1.02e+08	1.05 y	42:50	-	0.930	Co-elute PCB 182
204	Unk	PCB-182	200.00	1.02e+08	1.05 y	42:50	-	0.930	Co-elute PCB 187
205	Unk	PCB-183	100.00	5.05e+07	1.06 y	43:08	-	0.920	
206	Unk	PCB-185	100.00	4.63e+07	1.06 y	43:46	-	0.843	
207	Unk	PCB-174	100.00	4.76e+07	1.04 y	44:07	-	0.868	
208	Unk	PCB-181	100.00	4.58e+07	1.05 y	44:14	-	0.835	
209	Unk	PCB-177	100.00	4.24e+07	1.04 y	44:24	-	0.773	
210	Unk	PCB-171	100.00	4.52e+07	1.05 y	44:40	-	0.823	
211	Unk	PCB-173	100.00	4.09e+07	1.05 y	45:05	-	0.745	
212	Unk	PCB-172	100.00	4.10e+07	1.05 y	45:28	-	0.747	
213	Unk	PCB-192	100.00	5.51e+07	1.05 y	45:39	-	1.00	
214	Unk	PCB-180	100.00	5.38e+07	1.05 y	45:49	-	0.980	
215	Unk	PCB-193	100.00	5.95e+07	1.05 y	45:59	-	1.08	
216	Unk	PCB-191	100.00	5.71e+07	1.04 y	46:12	-	1.04	
217	Unk	PCB-170	100.00	3.95e+07	1.04 y	47:08	-	0.719	
218	Unk	PCB-190	100.00	5.36e+07	1.05 y	47:18	-	0.976	
219	Unk	PCB-189	100.00	5.26e+07	1.06 y	48:32	-	1.09	
220	IS	13C-PCB-189	100.00	4.80e+07	1.05 y	48:31	-	1.00	
221	Unk	PCB-202	150.00	7.60e+07	0.89 y	44:50	-	0.934	
222	Unk	PCB-201	150.00	7.59e+07	0.88 y	45:16	-	0.933	
223	Unk	PCB-204	150.00	7.57e+07	0.89 y	45:26	-	0.931	
224	Unk	PCB-197	150.00	7.84e+07	0.88 y	45:41	-	0.964	
225	Unk	PCB-200	150.00	7.41e+07	0.89 y	46:27	-	0.911	
226	Unk	PCB-198	150.00	4.99e+07	0.88 y	47:40	-	0.614	
227	Unk	PCB-199	150.00	5.72e+07	0.89 y	47:45	-	0.704	
228	Unk	PCB-203	300.00	1.17e+08	0.89 y	48:01	-	0.722	Co-elute PCB 196
229	Unk	PCB-196	300.00	1.17e+08	0.89 y	48:01	-	0.722	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	5.42e+07	0.91 y	44:48	-	1.13	
231	C/Up	13C-PCB-178	100.00	4.13e+07	1.07 y	42:19	-	0.864	
232	RS	13C-PCB-138	100.00	4.78e+07	1.24 y	41:33	4.78e+05	-	
233	Unk	PCB-195	150.00	5.10e+07	0.89 y	49:08	-	0.791	
234	Unk	PCB-194	150.00	5.29e+07	0.88 y	49:58	-	0.820	
235	Unk	PCB-205	150.00	6.97e+07	0.89 y	50:15	-	1.08	
236	IS	13C-PCB-205	100.00	4.30e+07	0.91 y	50:14	-	1.26	
237	Unk	PCB-208	150.00	6.57e+07	1.34 y	49:15	-	1.02	
238	IS	13C-PCB-208	100.00	4.31e+07	0.80 y	49:13	-	1.27	
239	Unk	PCB-207	150.00	6.25e+07	1.34 y	49:34	-	1.13	
240	Unk	PCB-206	150.00	4.75e+07	1.34 y	51:32	-	1.03	
241	IS	13C-PCB-206	100.00	3.08e+07	0.81 y	51:31	-	0.903	
242	Unk	PCB-209	150.00	7.41e+07	1.18 y	52:48	-	1.06	
243	IS	13C-PCB-209	100.00	4.67e+07	1.19 y	52:48	-	1.37	
244	RS	13C-PCB-194	100.00	3.41e+07	0.90 y	49:57	3.41e+05	-	

Analyst: _____ Date: 9/22/16

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 9/21/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 21SEP16Z Sam:1 Analysis Date: 21-SEP-16 15:53:42

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.11	2.66-3.60	y	48.9	37.5 - 62.5
PCB-3	M/M+2	3.24	2.66-3.60	y	47.6	37.5 - 62.5
PCB-4	M/M+2	1.46	1.33-1.79	y	45.7	37.5 - 62.5
PCB-15	M/M+2	1.60	1.33-1.79	y	41.4	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	48.3	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	44.9	37.5 - 62.5
PCB-54	M/M+2	0.77	0.65-0.89	y	49.6	37.5 - 62.5
PCB-77	M/M+2	0.75	0.65-0.89	y	52.7	37.5 - 62.5
PCB-81	M/M+2	0.75	0.65-0.89	y	51.3	37.5 - 62.5
PCB-104	M+2/M+4	1.57	1.32-1.78	y	50.1	37.5 - 62.5
PCB-105	M+2/M+4	1.47	1.32-1.78	y	48.9	37.5 - 62.5
PCB-114	M+2/M+4	1.42	1.32-1.78	y	47.8	37.5 - 62.5
PCB-118	M+2/M+4	1.46	1.32-1.78	y	52.0	37.5 - 62.5
PCB-123	M+2/M+4	1.46	1.32-1.78	y	42.0	37.5 - 62.5
PCB-126	M+2/M+4	1.51	1.32-1.78	y	47.6	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	48.9	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	48.0	37.5 - 62.5
PCB-157	M+2/M+4	1.25	1.05-1.43	y	46.9	37.5 - 62.5
PCB-167	M+2/M+4	1.23	1.05-1.43	y	50.4	37.5 - 62.5
PCB-169	M+2/M+4	1.26	1.05-1.43	y	50.6	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	50.5	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	49.1	37.5 - 62.5
PCB-202	M+2/M+4	0.90	0.76-1.02	y	52.6	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	49.1	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	49.1	37.5 - 62.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	48.1	37.5 - 62.5
PCB-209	M+4/M+6	1.17	0.99-1.33	y	49.7	37.5 - 62.5

Analyst: _____ Date: 9/22/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 9/21/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 21SEP16Z Sam:1 Analysis Date: 21-SEP-16 15:53:42

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.08	2.66-3.60	y	109	50.0 - 145
13C-PCB-3	M/M+2	2.99	2.66-3.60	y	101	50.0 - 145
13C-PCB-4	M/M+2	1.56	1.33-1.79	y	111	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	103	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	113	50.0 - 145
13C-PCB-37	M/M+2	1.05	0.88-1.20	y	103	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	99.9	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	100	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	100	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	101	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	1.57	1.32-1.78	y	100	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	104	50.0 - 145
13C-PCB-123	M+2/M+4	1.58	1.32-1.78	y	96.4	50.0 - 145
13C-PCB-126	M+2/M+4	1.59	1.32-1.78	y	96.5	50.0 - 145
13C-PCB-155	M+2/M+4	1.27	1.05-1.43	y	113	50.0 - 145
13C-PCB-156	M+2/M+4	1.27	1.05-1.43	y	98.3	50.0 - 145
13C-PCB-157	M+2/M+4	1.23	1.05-1.43	y	105	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	101	50.0 - 145
13C-PCB-169	M+2/M+4	1.24	1.05-1.43	y	97.9	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	106	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	101	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	106	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	104	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	108	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	115	50.0 - 145
13C-PCB-209	M+4/M+6	1.18	0.99-1.33	y	105	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.09	0.88-1.20	y	99.2	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	114	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	108	75.0 - 125

Analyst: [signature] Date: 9/22/16

FAL ID: ST092116Z1 Filename: 21SEP16Z Sam:1 Acquired: 21-SEP-16 15:53:42 ICal: DAILY209FAL4-9-21-16
Client ID: 1668 CS3 R160816B ConCal: ST092116Z1 EndCal: ST092116Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.78e+07	3.11 y	14:30	0.97	48.9		2.50	-	-	*	
13C-PCB-1	7.93e+07	3.08 y	14:30	1.18	109		2.50				109
PCB-3	3.38e+07	3.24 y	16:59	1.06	47.6		2.50	-	-	*	
13C-PCB-3	6.72e+07	2.99 y	16:58	1.07	101		2.50				101
PCB-4	2.32e+07	1.46 y	18:11	1.17	45.7		2.50	-	-	*	
13C-PCB-4	4.36e+07	1.56 y	18:10	0.63	111		2.50				111
PCB-15	2.91e+07	1.60 y	23:47	1.23	41.4		2.50	-	-	*	
13C-PCB-15	5.72e+07	1.60 y	23:46	0.89	103		2.50				103
PCB-19	2.41e+07	1.04 y	22:05	1.05	48.3		2.50	-	-	*	
13C-PCB-19	4.72e+07	1.08 y	22:03	0.67	113		2.50				113
13C-PCB-9	6.22e+07	1.61 y	19:52	-	66.1		2.50				
PCB-37	2.35e+07	1.05 y	30:27	1.35	44.9		2.50	-	-	*	
13C-PCB-37	3.88e+07	1.05 y	30:26	0.84	103		2.50				103
PCB-54	2.75e+07	0.77 y	25:37	1.03	49.6		2.50	-	-	*	
13C-PCB-54	5.39e+07	0.79 y	25:35	1.20	99.9		2.50				99.9
PCB-104	2.47e+07	1.57 y	30:03	1.09	50.1		2.50	-	-	*	
13C-PCB-104	4.51e+07	1.59 y	30:02	0.99	101		2.50				101
13C-PCB-28	4.96e+07	1.09 y	26:42	1.11	99.2		2.50				99.2
13C-PCB-52	4.49e+07	0.78 y	28:56	-	72.7		2.50				
PCB-81	2.00e+07	0.75 y	36:12	1.05	51.3		2.50	-	-	*	
13C-PCB-81	3.71e+07	0.81 y	36:11	0.97	100		2.50				100
PCB-77	1.93e+07	0.75 y	36:46	0.98	52.7		2.50	-	-	*	
13C-PCB-77	3.75e+07	0.81 y	36:45	0.98	100		2.50				100
PCB-155	2.50e+07	1.28 y	34:12	1.05	48.9		2.50	-	-	*	
13C-PCB-155	4.86e+07	1.27 y	34:11	1.13	113		2.50				113
13C-PCB-111	4.83e+07	1.60 y	36:17	1.11	114		2.50				114
13C-PCB-101	3.83e+07	1.61 y	34:39	-	66.5		2.50				
PCB-123	1.73e+07	1.46 y	38:22	1.25	42.0		2.50	-	-	*	
13C-PCB-123	3.29e+07	1.58 y	38:20	1.05	96.4		2.50				96.4
PCB-118	1.93e+07	1.46 y	38:32	0.96	52.0		2.50	-	-	*	
13C-PCB-118	3.85e+07	1.58 y	38:30	1.14	104		2.50				104
PCB-114	1.74e+07	1.42 y	39:09	1.04	47.8		2.50	-	-	*	
13C-PCB-114	3.50e+07	1.57 y	39:08	1.08	100		2.50				100
PCB-105	1.80e+07	1.47 y	39:59	1.03	48.9		2.50	-	-	*	
13C-PCB-105	3.56e+07	1.59 y	39:57	1.06	103		2.50				103
PCB-126	1.55e+07	1.51 y	42:09	1.04	47.6		2.50	-	-	*	
13C-PCB-126	3.14e+07	1.59 y	42:07	1.00	96.5		2.50				96.5
PCB-167	1.86e+07	1.23 y	43:28	0.96	50.4		2.50	-	-	*	
13C-PCB-167	3.82e+07	1.28 y	43:26	1.16	101		2.50				101
PCB-156	1.72e+07	1.25 y	44:42	1.01	48.0		2.50	-	-	*	
13C-PCB-156	3.53e+07	1.27 y	44:40	1.11	98.3		2.50				98.3
PCB-157	1.85e+07	1.25 y	44:57	1.03	46.9		2.50	-	-	*	
13C-PCB-157	3.83e+07	1.23 y	44:55	1.13	105		2.50				105
PCB-169	1.62e+07	1.26 y	46:52	0.96	50.6		2.50	-	-	*	
13C-PCB-169	3.33e+07	1.24 y	46:50	1.05	97.9		2.50				97.9
PCB-188	2.45e+07	1.05 y	39:42	1.09	50.5		2.50	-	-	*	
13C-PCB-188	4.46e+07	1.07 y	39:41	1.29	106		2.50				106
PCB-189	1.77e+07	1.05 y	48:32	1.09	49.1		2.50	-	-	*	
13C-PCB-189	3.30e+07	1.07 y	48:31	1.00	101		2.50				101
PCB-202	1.92e+07	0.90 y	44:50	0.93	52.6		2.50	-	-	*	
13C-PCB-202	3.91e+07	0.90 y	44:49	1.13	106		2.50				106
13C-PCB-178	3.03e+07	1.08 y	42:20	0.86	108		2.50				108
13C-PCB-138	3.25e+07	1.26 y	41:34	-	67.9		2.50				

FAL ID: ST092116Z1 Filename: 21SEP16Z Sam:1 Acquired: 21-SEP-16 15:53:42 ICal: DAILY209FAL4-9-21-16 2 of 2
Client ID: 1668 CS3 R160816B ConCal: ST092116Z1 EndCal: ST092116Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	1.54e+07	0.90	y	50:15	1.08	49.1	2.50	-	-	*	
13C-PCB-205	2.91e+07	0.90	y	50:14	1.26	104	2.50				104
PCB-208	1.58e+07	1.34	y	49:15	1.02	48.1	2.50	-	-	*	
13C-PCB-208	3.24e+07	0.80	y	49:14	1.27	115	2.50				115
PCB-206	1.10e+07	1.35	y	51:31	1.03	49.1	2.50	-	-	*	
13C-PCB-206	2.17e+07	0.81	y	51:31	0.90	108	2.50				108
PCB-209	1.68e+07	1.17	y	52:48	1.06	49.7	2.50	-	-	*	
13C-PCB-209	3.20e+07	1.18	y	52:47	1.37	105	2.50				105
13C-PCB-194	2.22e+07	0.91	y	49:57	-	65.2	2.50				

Analyst: _____ Date: 9/22/16

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 9/21/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 21SEP16Z Sam:7 Analysis Date: 21-SEP-16 21:50:46

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.06	2.66-3.60	y	47.4	37.5 - 62.5
PCB-3	M/M+2	3.01	2.66-3.60	y	45.1	37.5 - 62.5
PCB-4	M/M+2	1.51	1.33-1.79	y	45.2	37.5 - 62.5
PCB-15	M/M+2	1.54	1.33-1.79	y	43.7	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	48.8	37.5 - 62.5
PCB-37	M/M+2	1.04	0.88-1.20	y	49.2	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	49.4	37.5 - 62.5
PCB-77	M/M+2	0.77	0.65-0.89	y	55.7	37.5 - 62.5
PCB-81	M/M+2	0.76	0.65-0.89	y	52.1	37.5 - 62.5
PCB-104	M+2/M+4	1.57	1.32-1.78	y	50.7	37.5 - 62.5
PCB-105	M+2/M+4	1.51	1.32-1.78	y	49.3	37.5 - 62.5
PCB-114	M+2/M+4	1.47	1.32-1.78	y	48.3	37.5 - 62.5
PCB-118	M+2/M+4	1.51	1.32-1.78	y	52.2	37.5 - 62.5
PCB-123	M+2/M+4	1.50	1.32-1.78	y	41.7	37.5 - 62.5
PCB-126	M+2/M+4	1.52	1.32-1.78	y	49.2	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	50.4	37.5 - 62.5
PCB-156	M+2/M+4	1.24	1.05-1.43	y	48.5	37.5 - 62.5
PCB-157	M+2/M+4	1.25	1.05-1.43	y	45.9	37.5 - 62.5
PCB-167	M+2/M+4	1.24	1.05-1.43	y	50.1	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	50.1	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	50.9	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	49.4	37.5 - 62.5
PCB-202	M+2/M+4	0.88	0.76-1.02	y	52.0	37.5 - 62.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	50.2	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	49.5	37.5 - 62.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	48.3	37.5 - 62.5
PCB-209	M+4/M+6	1.17	0.99-1.33	y	49.7	37.5 - 62.5

Analyst: [signature] Date: 9/22/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 9/21/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 21SEP16Z Sam:7 Analysis Date: 21-SEP-16 21:50:46

	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	3.13	2.66-3.60	y	105	50.0 - 145
13C-PCB-3	M/M+2	3.36	2.66-3.60	y	100	50.0 - 145
13C-PCB-4	M/M+2	1.59	1.33-1.79	y	107	50.0 - 145
13C-PCB-15	M/M+2	1.57	1.33-1.79	y	96.0	50.0 - 145
13C-PCB-19	M/M+2	1.03	0.88-1.20	y	108	50.0 - 145
13C-PCB-37	M/M+2	0.97	0.88-1.20	y	100	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	98.4	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	102	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	103	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	102	50.0 - 145
13C-PCB-105	M+2/M+4	1.57	1.32-1.78	y	101	50.0 - 145
13C-PCB-114	M+2/M+4	1.59	1.32-1.78	y	102	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	102	50.0 - 145
13C-PCB-123	M+2/M+4	1.57	1.32-1.78	y	95.6	50.0 - 145
13C-PCB-126	M+2/M+4	1.55	1.32-1.78	y	96.8	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	111	50.0 - 145
13C-PCB-156	M+2/M+4	1.24	1.05-1.43	y	103	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	108	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	105	50.0 - 145
13C-PCB-169	M+2/M+4	1.24	1.05-1.43	y	105	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	102	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	106	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	107	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	105	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	105	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	110	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	103	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.10	0.88-1.20	y	105	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	118	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	108	75.0 - 125

Analyst: [signature] Date: 9/22/16

FAL ID: ST092116Z2 Filename: 21SEP16Z Sam:7 Acquired: 21-SEP-16 21:50:46 ICal: DAILY209FAL4-9-21-16
Client ID: 1668 CS3 R160816B ConCal: ST092116Z1 EndCal: ST092116Z2
Results: GC Column: DB1 Amount: 1.000

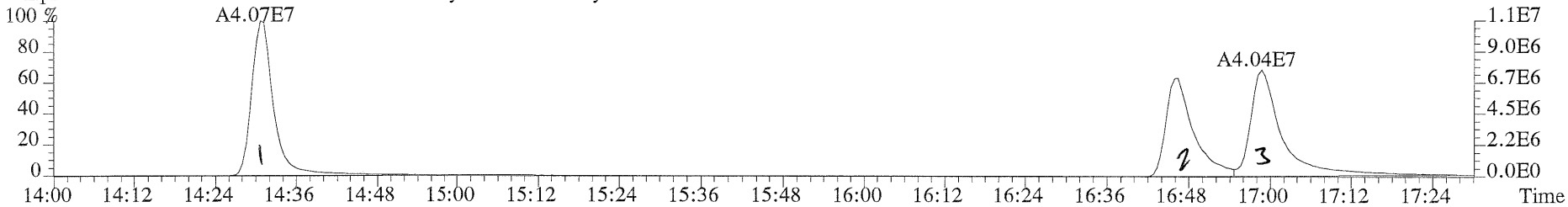
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.45e+07	3.06 y	14:32	0.97	47.4		2.50	-	-	*	
13C-PCB-1	7.46e+07	3.13 y	14:31	1.18	105		2.50				105
PCB-3	3.09e+07	3.01 y	17:00	1.06	45.1		2.50	-	-	*	
13C-PCB-3	6.47e+07	3.36 y	16:59	1.07	100		2.50				100
PCB-4	2.15e+07	1.51 y	18:12	1.17	45.2		2.50	-	-	*	
13C-PCB-4	4.08e+07	1.59 y	18:11	0.63	107		2.50				107
PCB-15	2.77e+07	1.54 y	23:48	1.23	43.7		2.50	-	-	*	
13C-PCB-15	5.16e+07	1.57 y	23:47	0.89	96.0		2.50				96.0
PCB-19	2.25e+07	1.04 y	22:04	1.05	48.8		2.50	-	-	*	
13C-PCB-19	4.37e+07	1.03 y	22:03	0.67	108		2.50				108
13C-PCB-9	6.03e+07	1.56 y	19:53	-	64.1		2.50				
PCB-37	2.34e+07	1.04 y	30:28	1.35	49.2		2.50	-	-	*	
13C-PCB-37	3.53e+07	0.97 y	30:26	0.84	100		2.50				100
PCB-54	2.54e+07	0.78 y	25:37	1.03	49.4		2.50	-	-	*	
13C-PCB-54	4.99e+07	0.80 y	25:36	1.20	98.4		2.50				98.4
PCB-104	2.39e+07	1.57 y	30:02	1.09	50.7		2.50	-	-	*	
13C-PCB-104	4.30e+07	1.59 y	30:01	0.99	102		2.50				102
13C-PCB-28	4.95e+07	1.10 y	26:43	1.11	105		2.50				105
13C-PCB-52	4.23e+07	0.78 y	28:57	-	68.4		2.50				
PCB-81	2.04e+07	0.76 y	36:12	1.05	52.1		2.50	-	-	*	
13C-PCB-81	3.73e+07	0.79 y	36:11	0.97	103		2.50				103
PCB-77	2.04e+07	0.77 y	36:47	0.98	55.7		2.50	-	-	*	
13C-PCB-77	3.74e+07	0.80 y	36:45	0.98	102		2.50				102
PCB-155	2.48e+07	1.26 y	34:11	1.05	50.4		2.50	-	-	*	
13C-PCB-155	4.68e+07	1.28 y	34:10	1.13	111		2.50				111
13C-PCB-111	4.89e+07	1.60 y	36:16	1.11	118		2.50				118
13C-PCB-101	3.74e+07	1.59 y	34:38	-	65.0		2.50				
PCB-123	1.74e+07	1.50 y	38:20	1.25	41.7		2.50	-	-	*	
13C-PCB-123	3.34e+07	1.57 y	38:20	1.05	95.6		2.50				95.6
PCB-118	1.94e+07	1.51 y	38:32	0.96	52.2		2.50	-	-	*	
13C-PCB-118	3.86e+07	1.58 y	38:30	1.14	102		2.50				102
PCB-114	1.84e+07	1.47 y	39:08	1.04	48.3		2.50	-	-	*	
13C-PCB-114	3.67e+07	1.59 y	39:08	1.08	102		2.50				102
PCB-105	1.82e+07	1.51 y	39:57	1.03	49.3		2.50	-	-	*	
13C-PCB-105	3.57e+07	1.57 y	39:57	1.06	101		2.50				101
PCB-126	1.64e+07	1.52 y	42:07	1.04	49.2		2.50	-	-	*	
13C-PCB-126	3.23e+07	1.55 y	42:07	1.00	96.8		2.50				96.8
PCB-167	1.96e+07	1.24 y	43:26	0.96	50.1		2.50	-	-	*	
13C-PCB-167	4.06e+07	1.26 y	43:26	1.16	105		2.50				105
PCB-156	1.87e+07	1.24 y	44:40	1.01	48.5		2.50	-	-	*	
13C-PCB-156	3.79e+07	1.24 y	44:40	1.11	103		2.50				103
PCB-157	1.91e+07	1.25 y	44:57	1.03	45.9		2.50	-	-	*	
13C-PCB-157	4.06e+07	1.27 y	44:55	1.13	108		2.50				108
PCB-169	1.76e+07	1.27 y	46:51	0.96	50.1		2.50	-	-	*	
13C-PCB-169	3.64e+07	1.24 y	46:51	1.05	105		2.50				105
PCB-188	2.42e+07	1.06 y	39:41	1.09	50.9		2.50	-	-	*	
13C-PCB-188	4.37e+07	1.06 y	39:41	1.29	102		2.50				102
PCB-189	1.91e+07	1.05 y	48:31	1.09	49.4		2.50	-	-	*	
13C-PCB-189	3.52e+07	1.06 y	48:31	1.00	106		2.50				106
PCB-202	1.95e+07	0.88 y	44:49	0.93	52.0		2.50	-	-	*	
13C-PCB-202	4.02e+07	0.90 y	44:49	1.13	107		2.50				107
13C-PCB-178	3.11e+07	1.06 y	42:19	0.86	108		2.50				108
13C-PCB-138	3.32e+07	1.26 y	41:33	-	69.5		2.50				

FAL ID: ST092116Z2 Filename: 21SEP16Z Sam:7 Acquired: 21-SEP-16 21:50:46 ICal: DAILY209FAL4-9-21-16 2 of 2
Client ID: 1668 CS3 R160816B ConCal: ST092116Z1 EndCal: ST092116Z2
Results: GC Column: DB1 Amount: 1.000

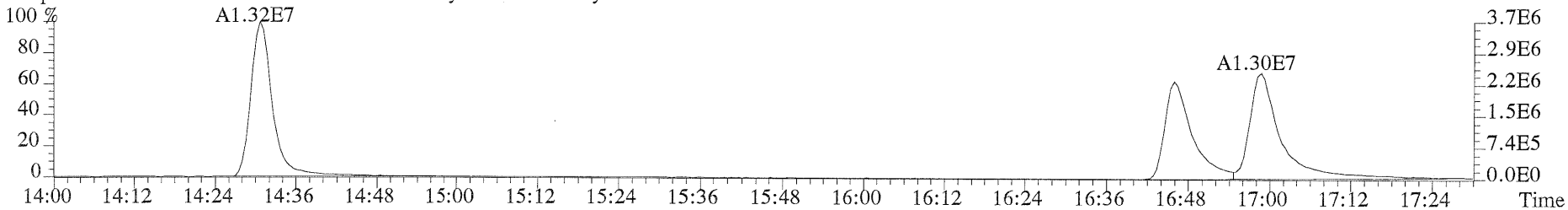
PCB-205	1.76e+07	0.88	y	50:14	1.08	50.2	2.50	-	-	*	
13C-PCB-205	3.24e+07	0.91	y	50:14	1.26	105	2.50				105
PCB-208	1.66e+07	1.34	y	49:15	1.02	48.3	2.50	-	-	*	
13C-PCB-208	3.39e+07	0.80	y	49:14	1.27	110	2.50				110
PCB-206	1.18e+07	1.35	y	51:31	1.03	49.5	2.50	-	-	*	
13C-PCB-206	2.32e+07	0.80	y	51:30	0.90	105	2.50				105
PCB-209	1.82e+07	1.17	y	52:47	1.06	49.7	2.50	-	-	*	
13C-PCB-209	3.46e+07	1.19	y	52:47	1.37	103	2.50				103
13C-PCB-194	2.44e+07	0.92	y	49:57	-	71.7	2.50				

Analyst: _____ Date: 9/22/16

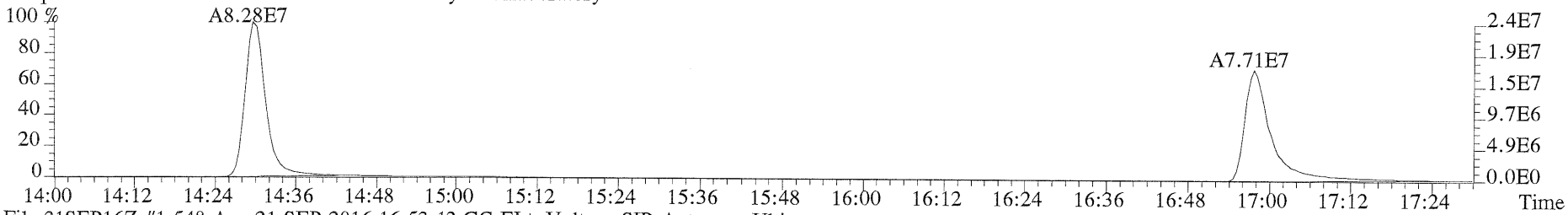
File:21SEP16Z #1-548 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



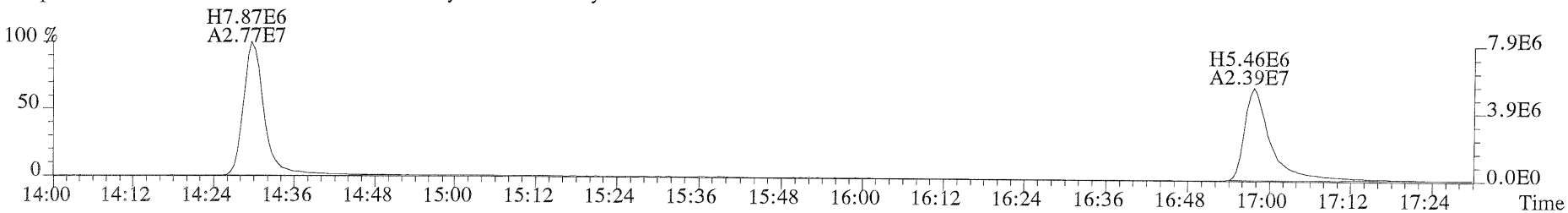
File:21SEP16Z #1-548 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



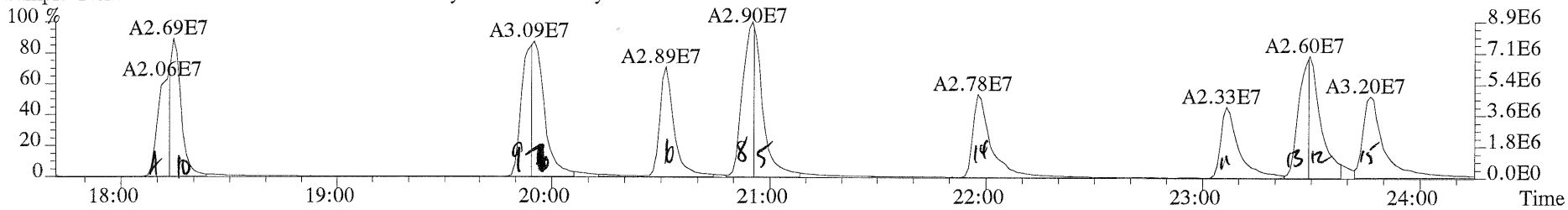
File:21SEP16Z #1-548 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



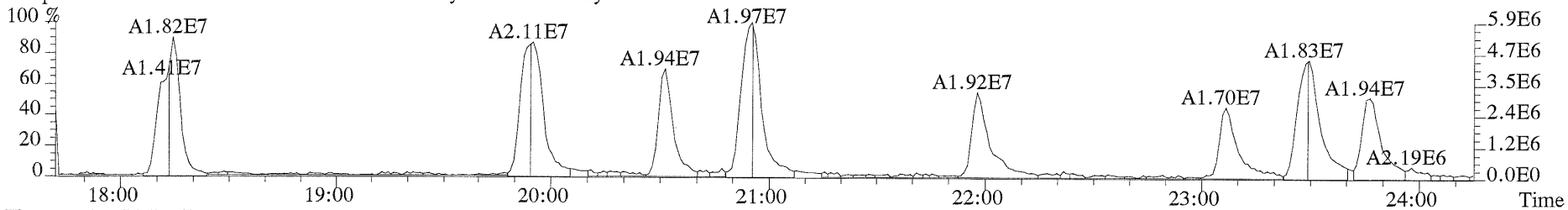
File:21SEP16Z #1-548 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



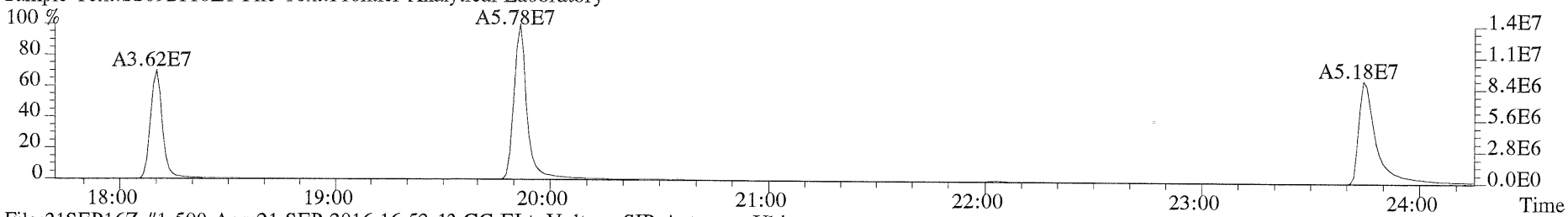
File:21SEP16Z #1-509 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



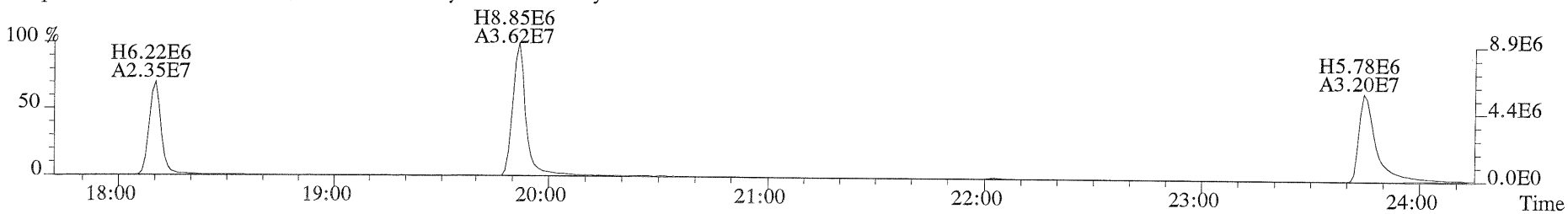
File:21SEP16Z #1-509 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



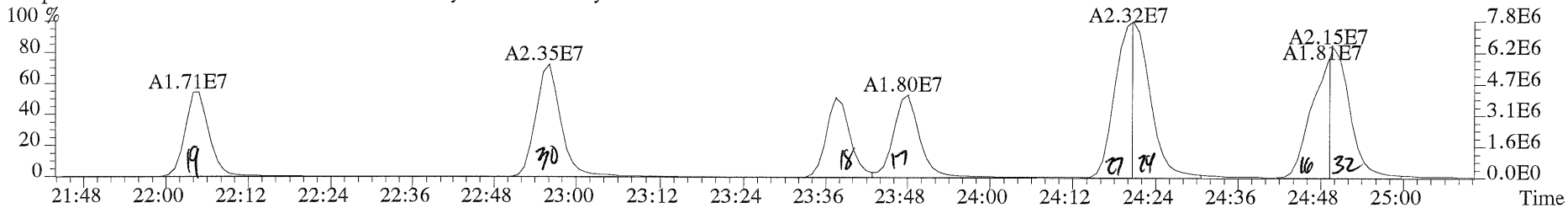
File:21SEP16Z #1-509 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



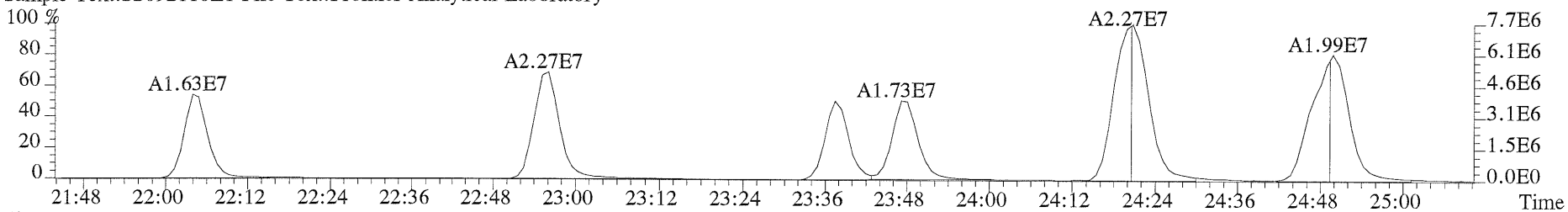
File:21SEP16Z #1-509 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



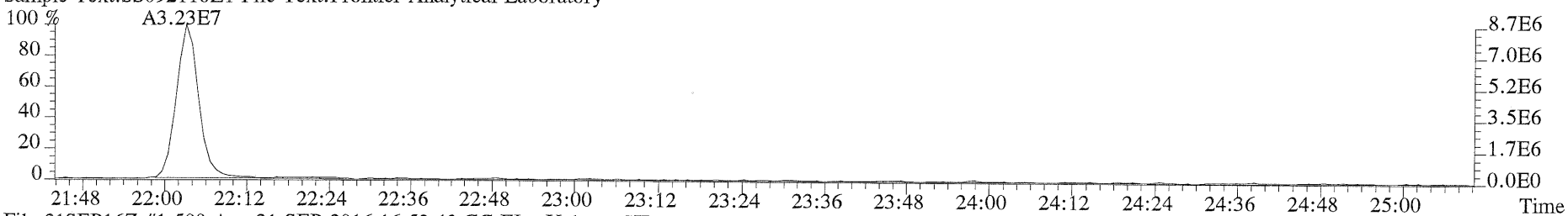
File:21SEP16Z #1-509 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



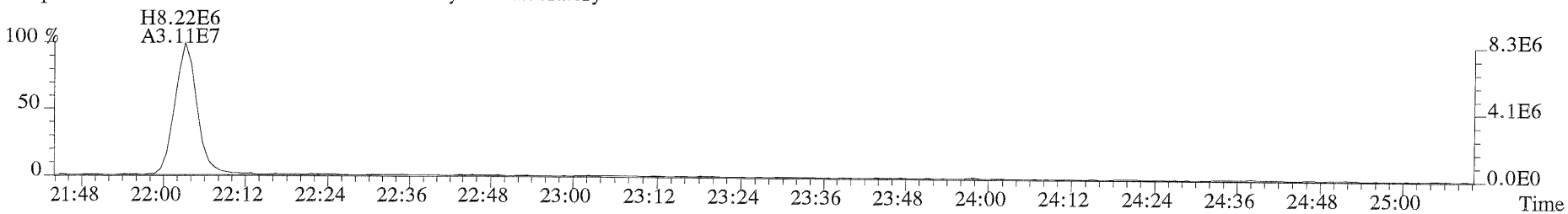
File:21SEP16Z #1-509 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



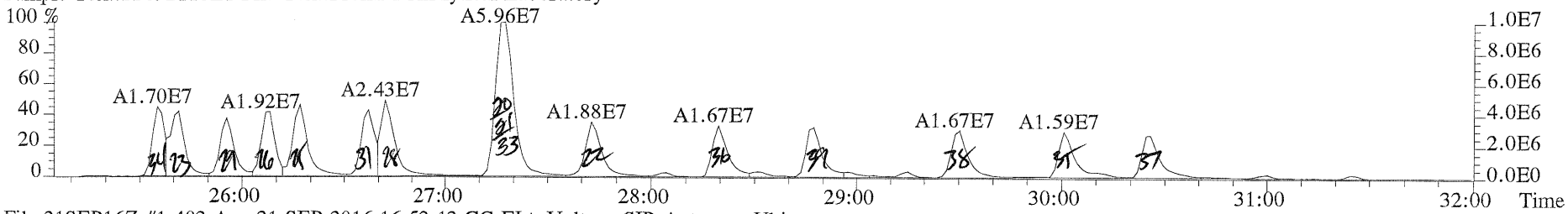
File:21SEP16Z #1-509 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



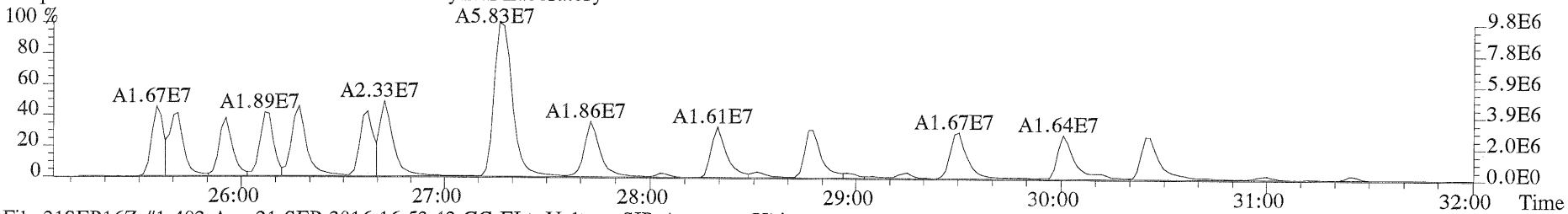
File:21SEP16Z #1-509 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



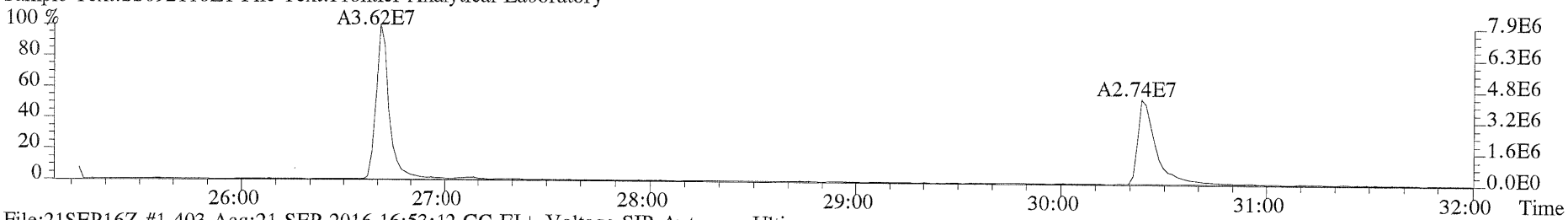
File:21SEP16Z #1-403 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



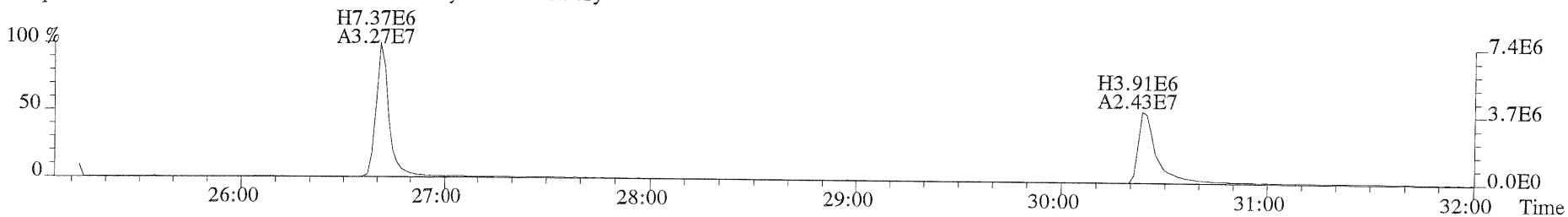
File:21SEP16Z #1-403 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



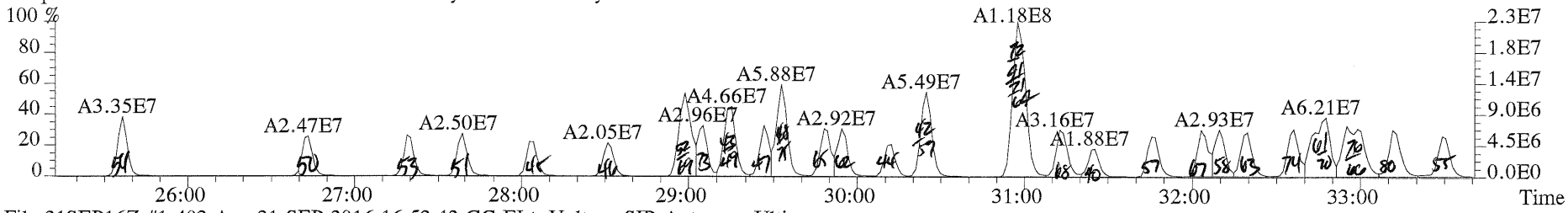
File:21SEP16Z #1-403 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



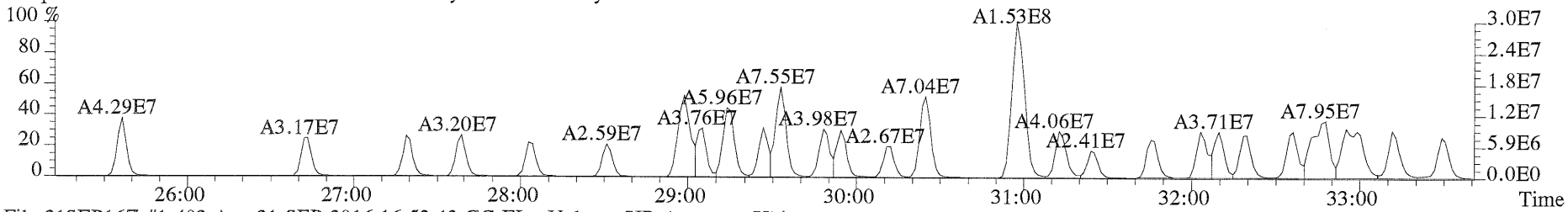
File:21SEP16Z #1-403 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



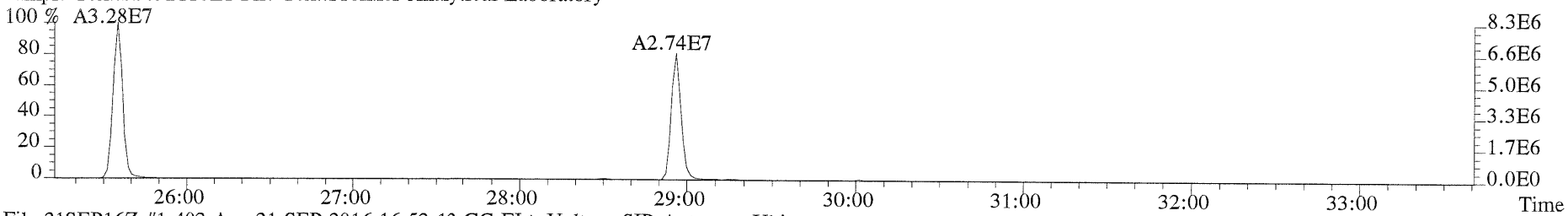
File:21SEP16Z #1-403 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



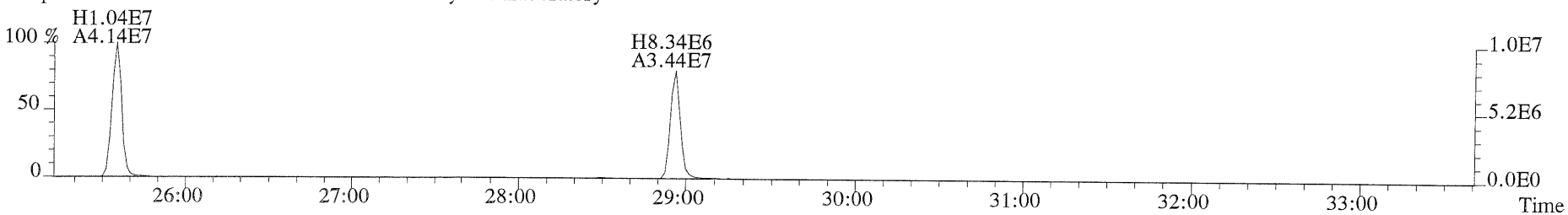
File:21SEP16Z #1-403 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



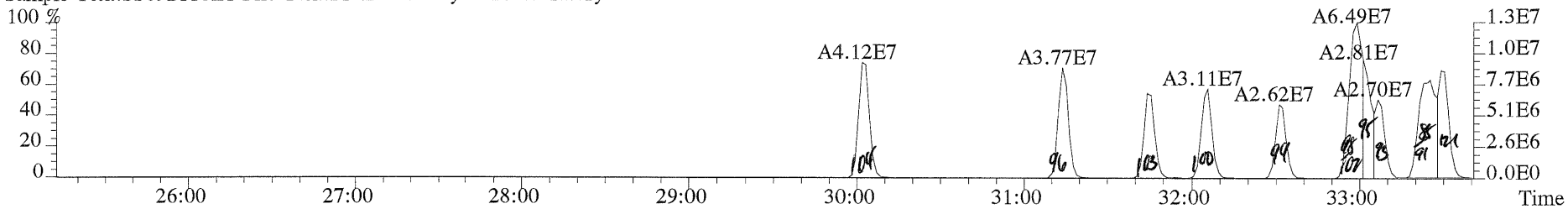
File:21SEP16Z #1-403 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



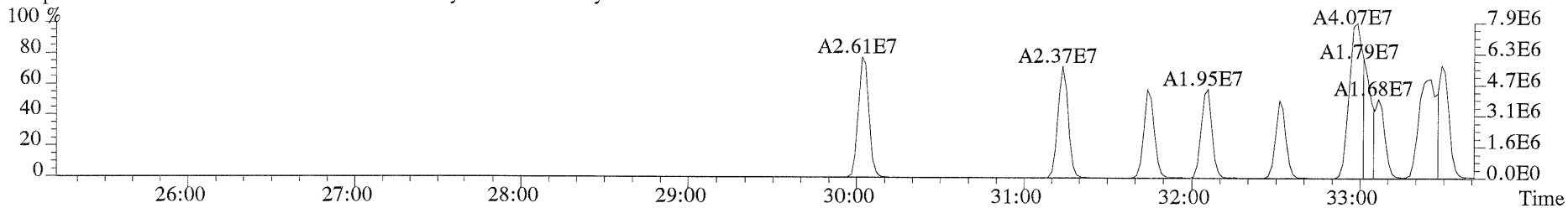
File:21SEP16Z #1-403 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



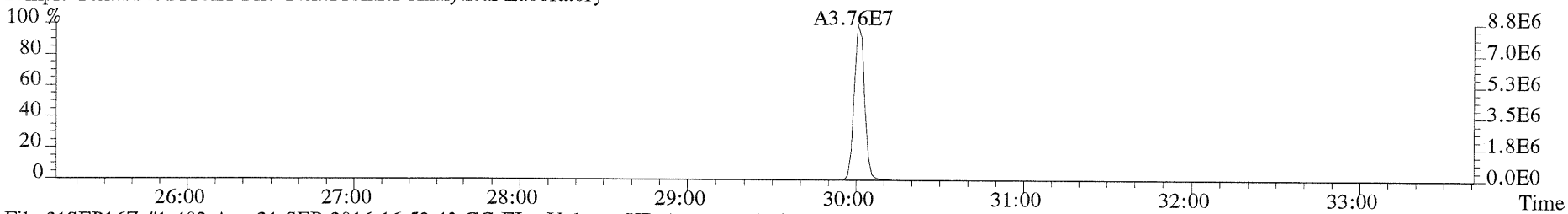
File:21SEP16Z #1-403 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



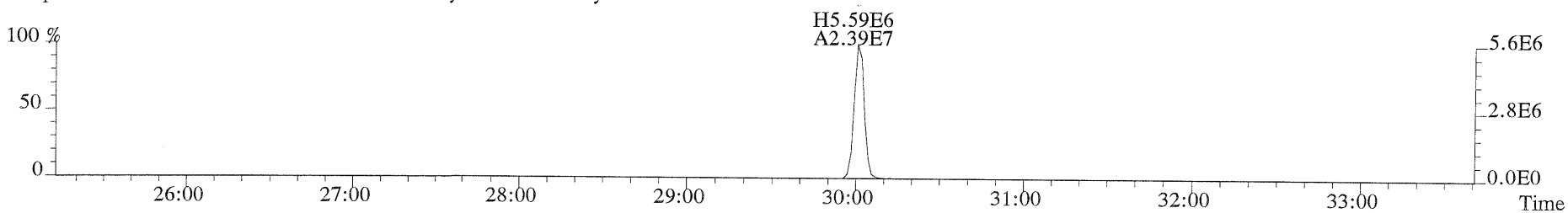
File:21SEP16Z #1-403 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



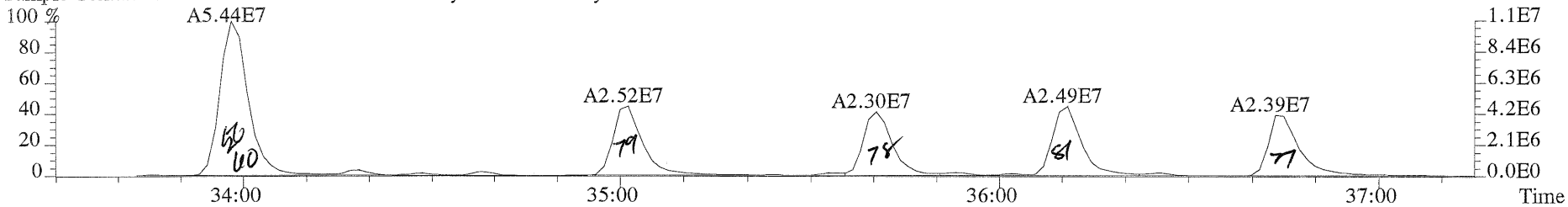
File:21SEP16Z #1-403 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



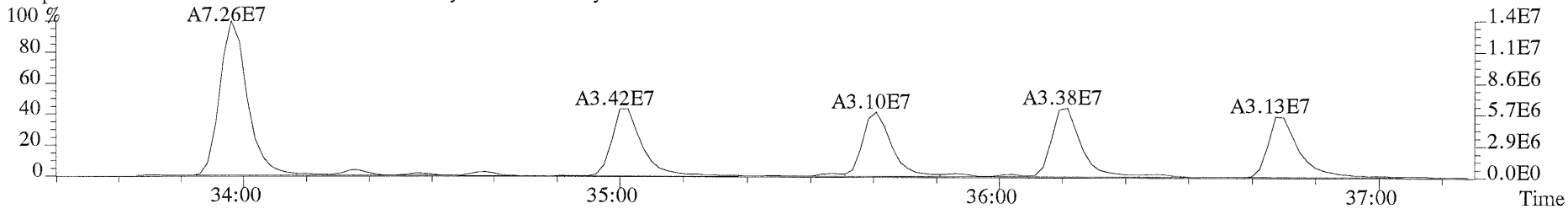
File:21SEP16Z #1-403 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



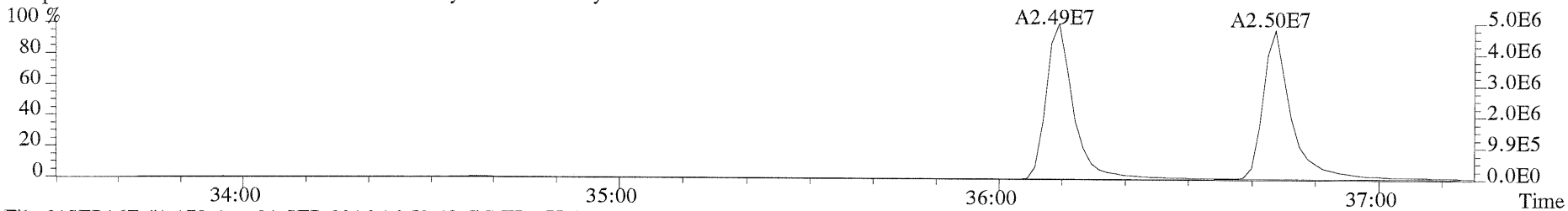
File:21SEP16Z #1-179 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



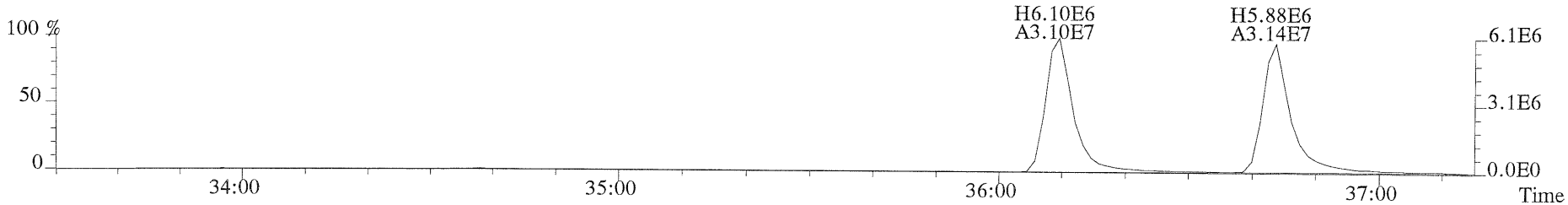
File:21SEP16Z #1-179 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



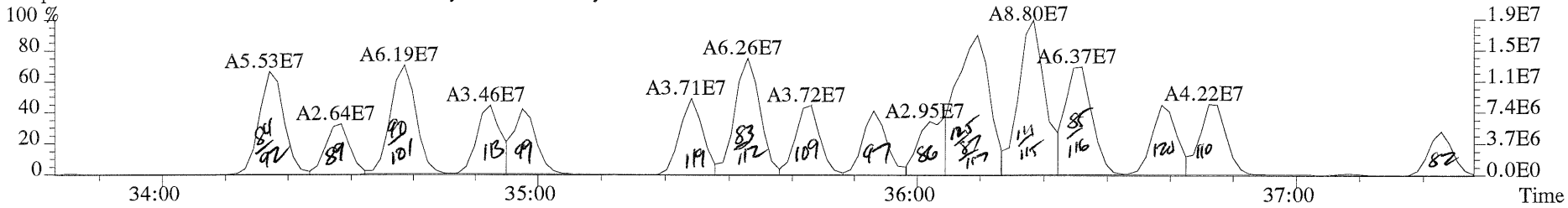
File:21SEP16Z #1-179 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



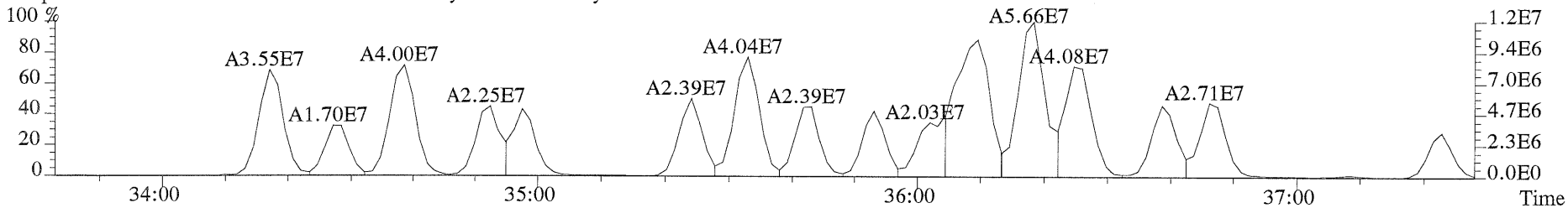
File:21SEP16Z #1-179 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



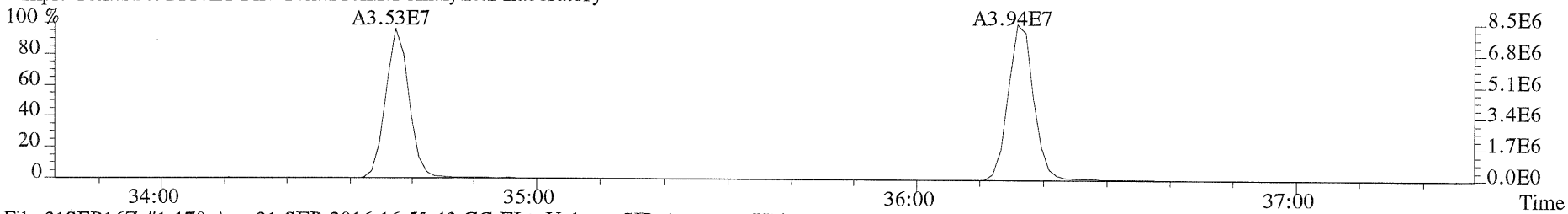
File:21SEP16Z #1-179 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



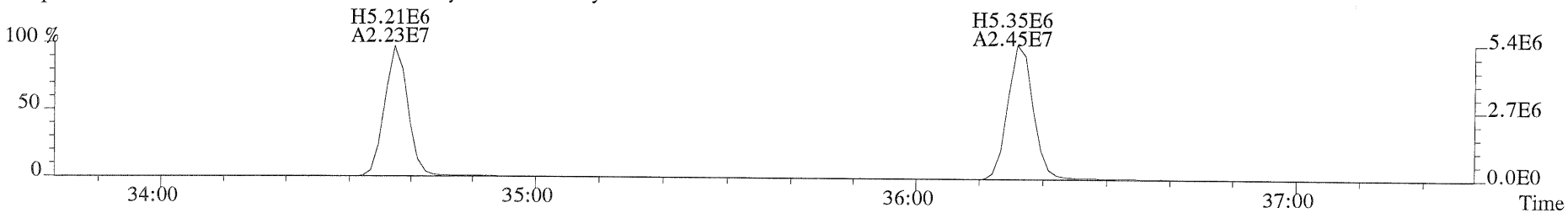
File:21SEP16Z #1-179 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



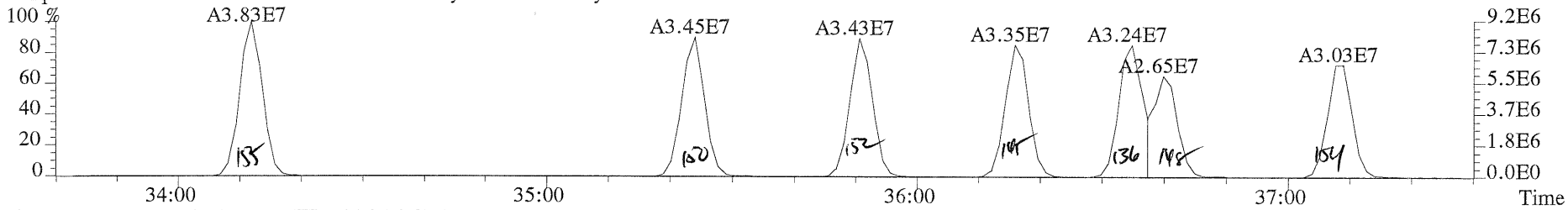
File:21SEP16Z #1-179 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



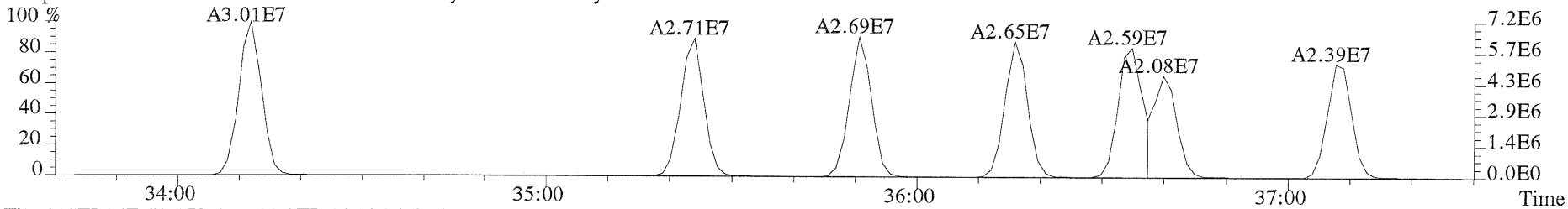
File:21SEP16Z #1-179 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



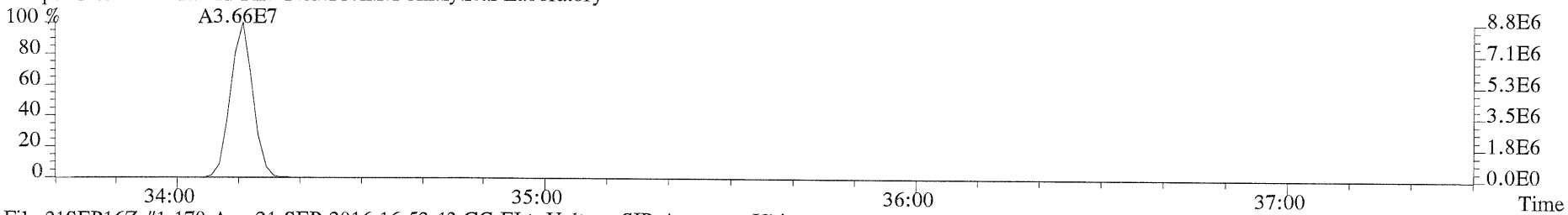
File:21SEP16Z #1-179 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



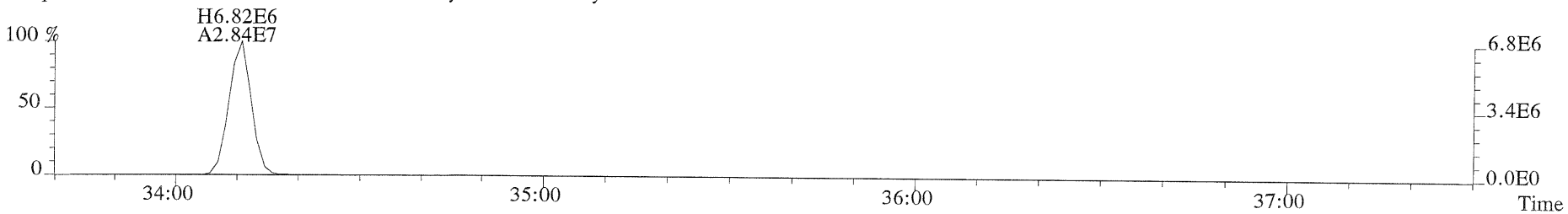
File:21SEP16Z #1-179 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



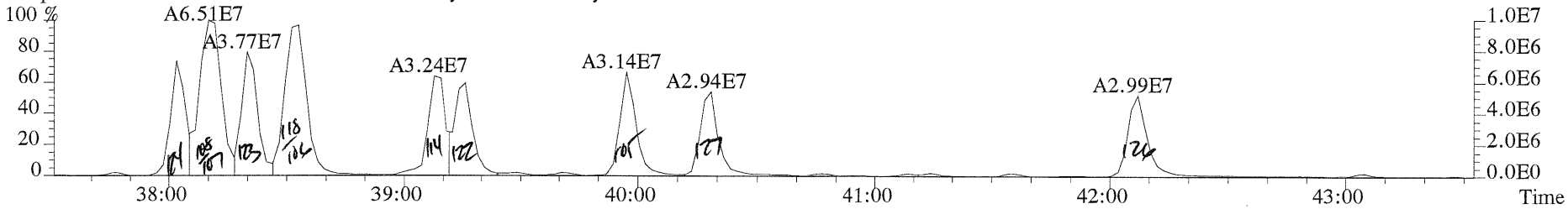
File:21SEP16Z #1-179 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



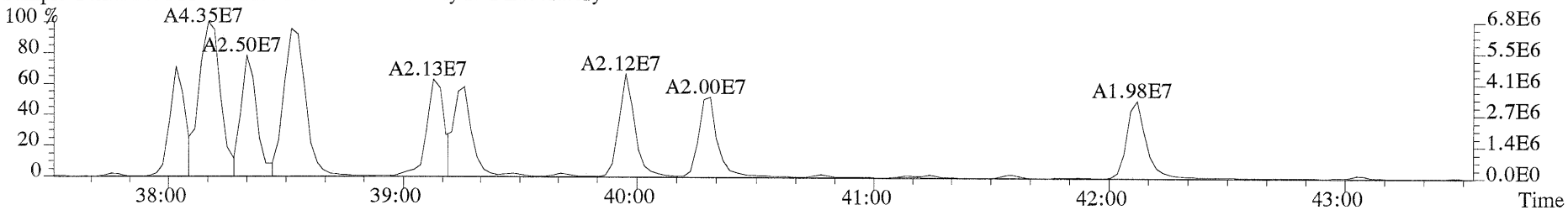
File:21SEP16Z #1-179 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



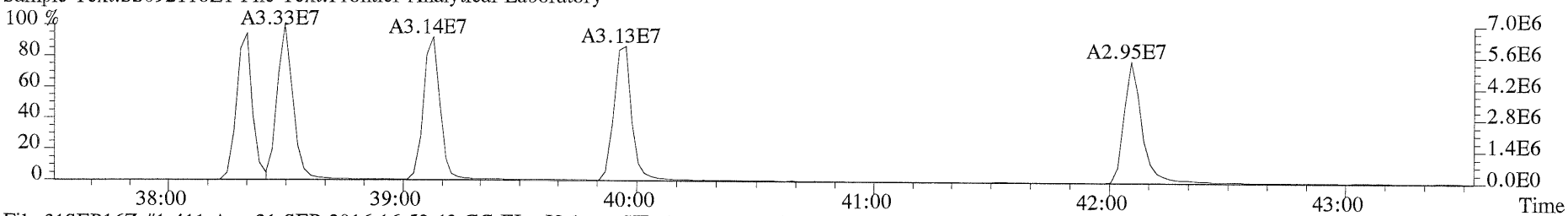
File:21SEP16Z #1-411 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



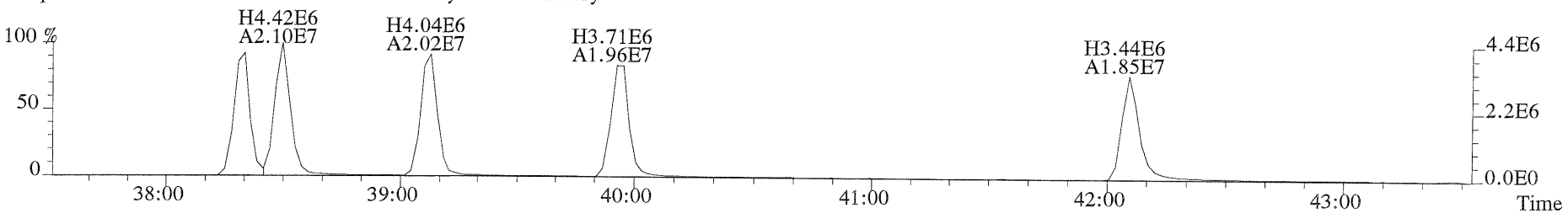
File:21SEP16Z #1-411 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



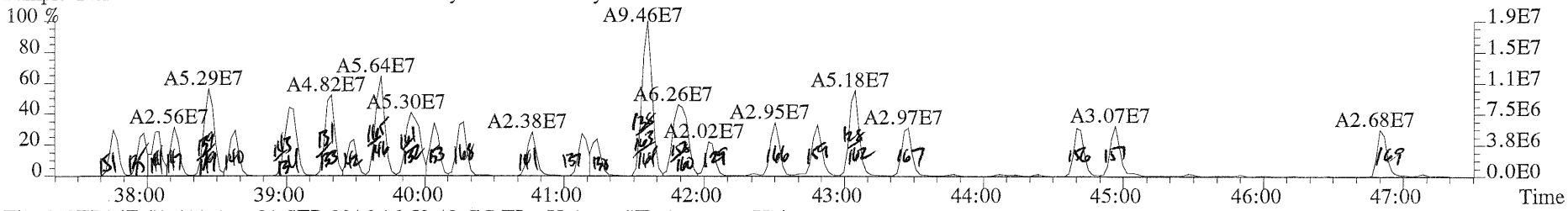
File:21SEP16Z #1-411 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



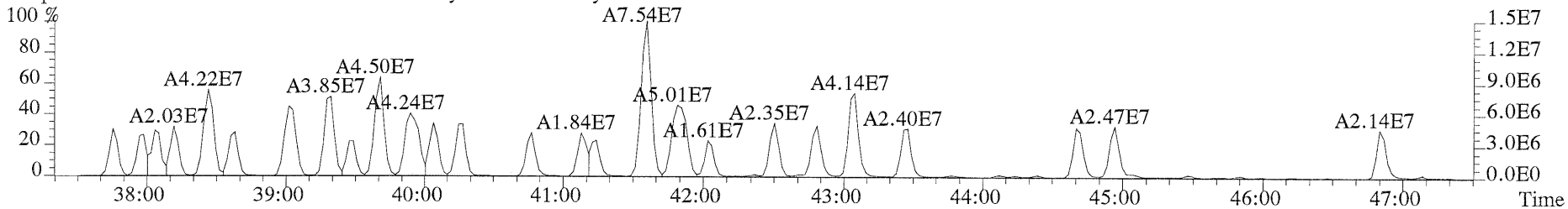
File:21SEP16Z #1-411 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



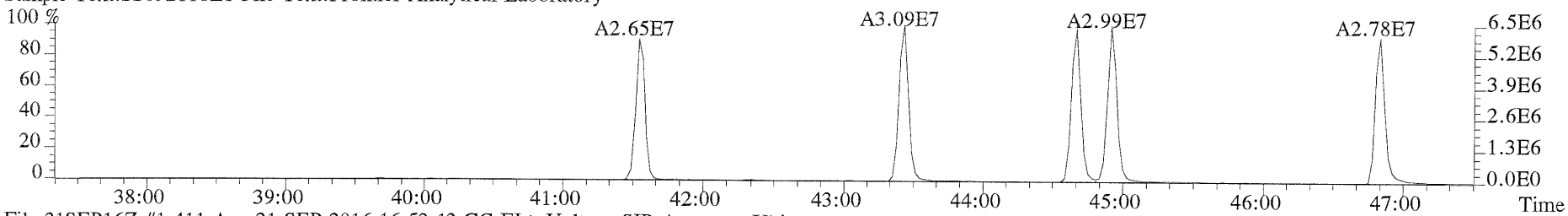
File:21SEP16Z #1-411 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



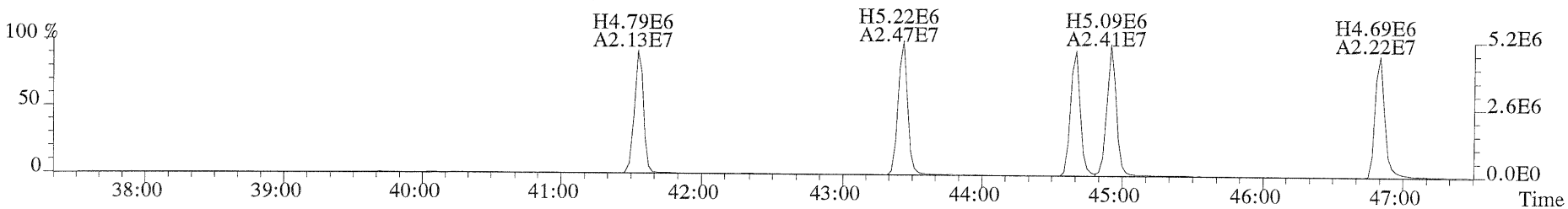
File:21SEP16Z #1-411 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



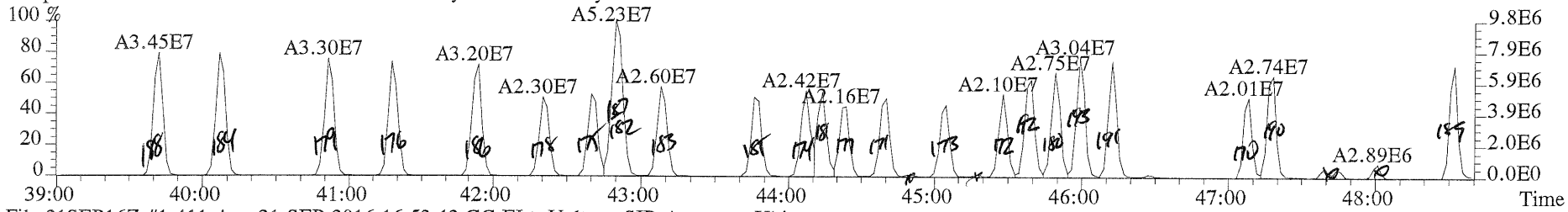
File:21SEP16Z #1-411 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



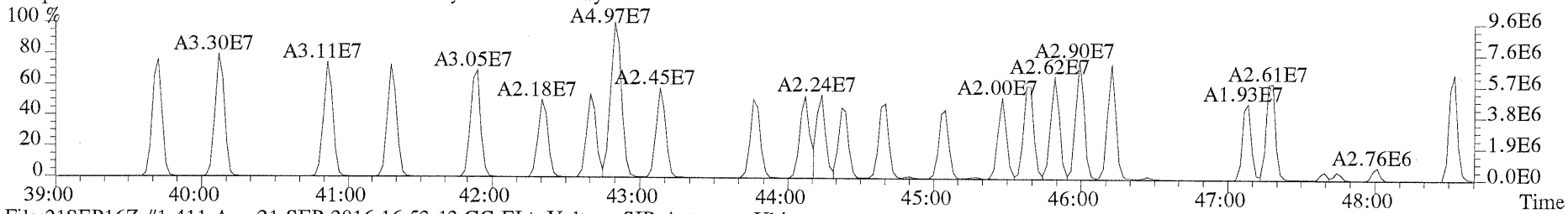
File:21SEP16Z #1-411 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



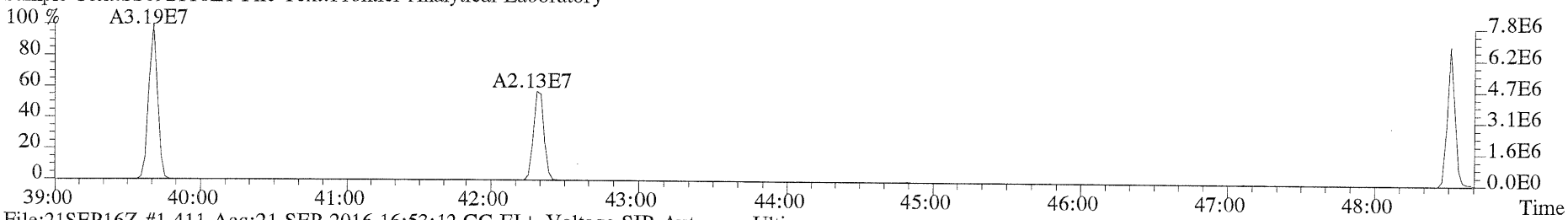
File:21SEP16Z #1-411 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



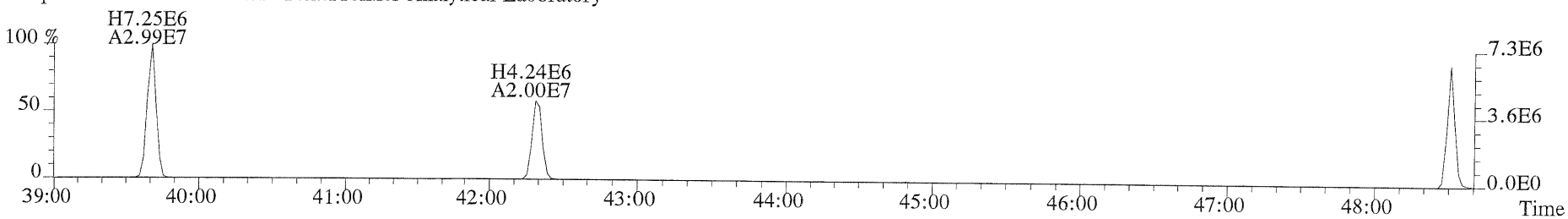
File:21SEP16Z #1-411 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



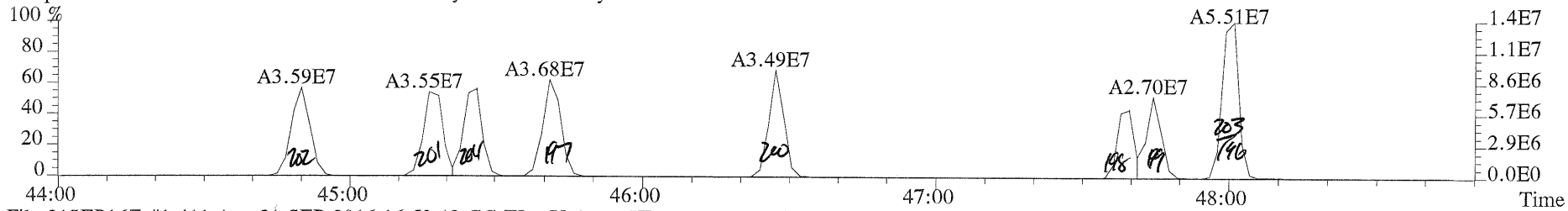
File:21SEP16Z #1-411 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



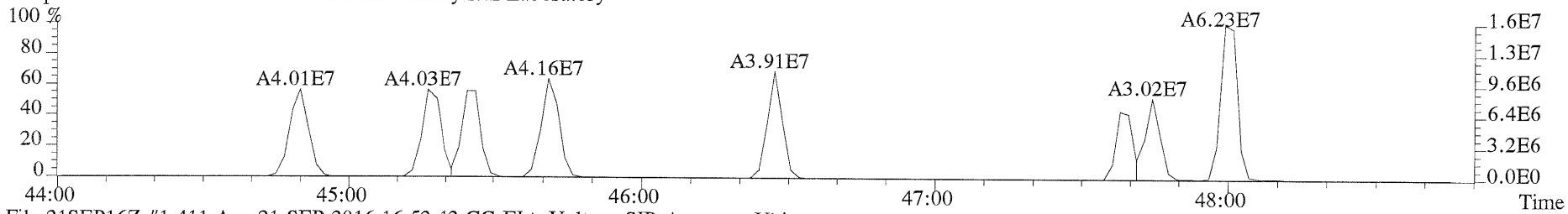
File:21SEP16Z #1-411 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



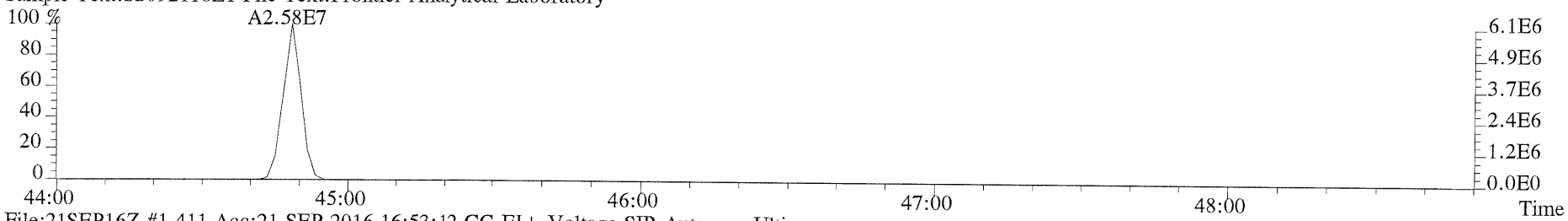
File:21SEP16Z #1-411 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



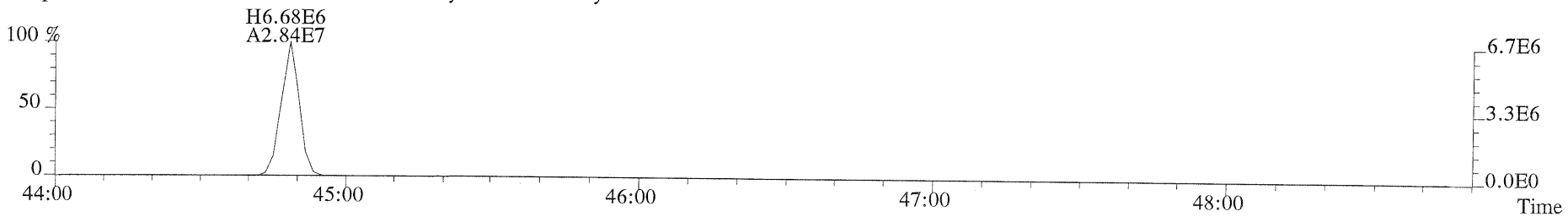
File:21SEP16Z #1-411 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



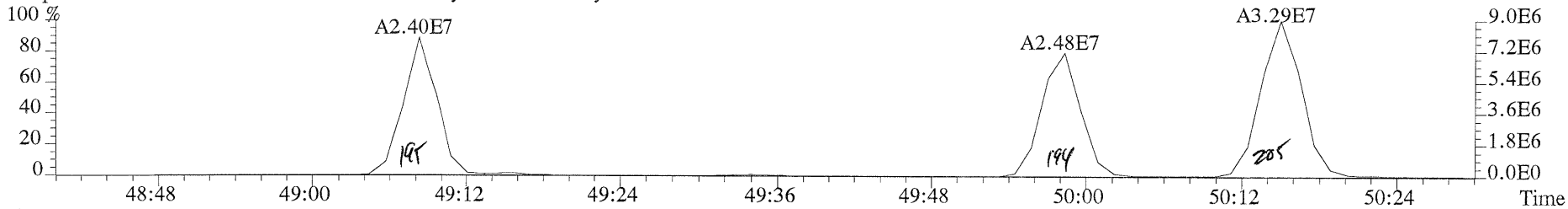
File:21SEP16Z #1-411 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



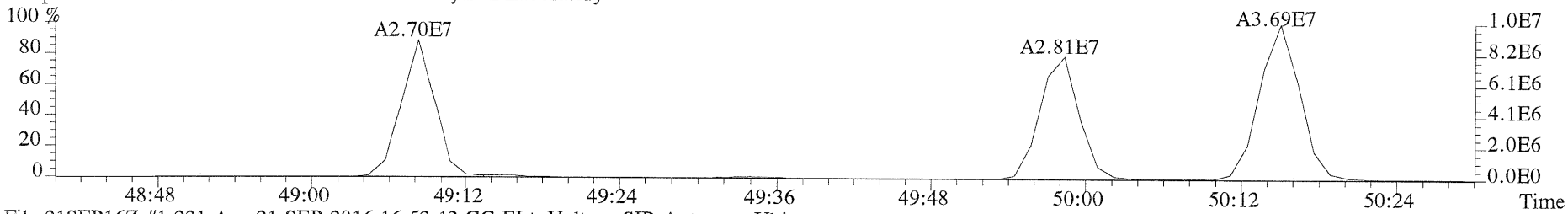
File:21SEP16Z #1-411 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



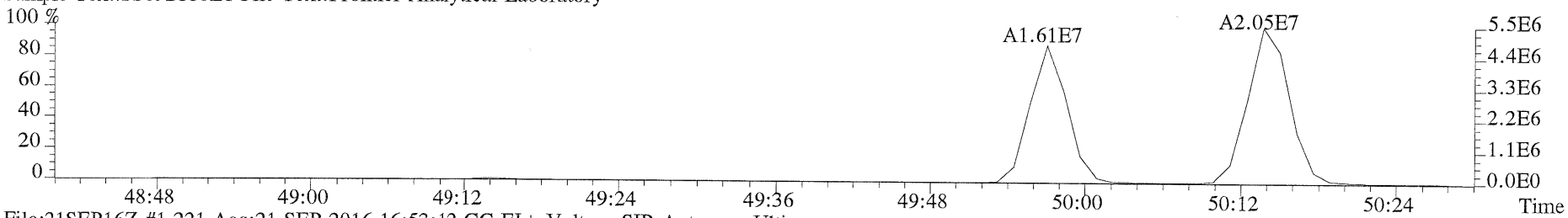
File:21SEP16Z #1-221 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



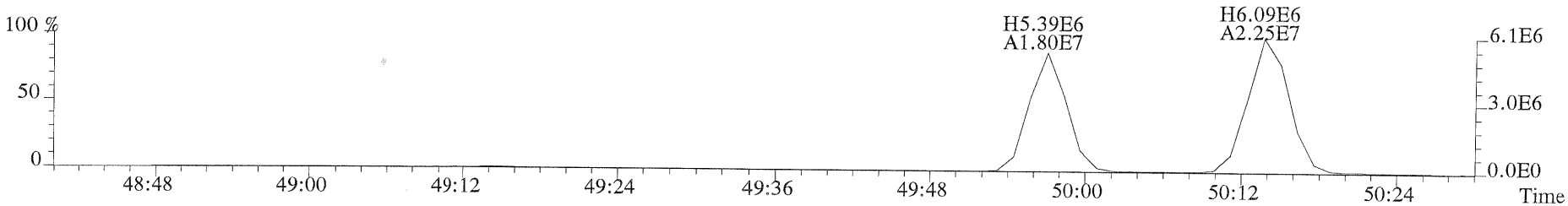
File:21SEP16Z #1-221 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



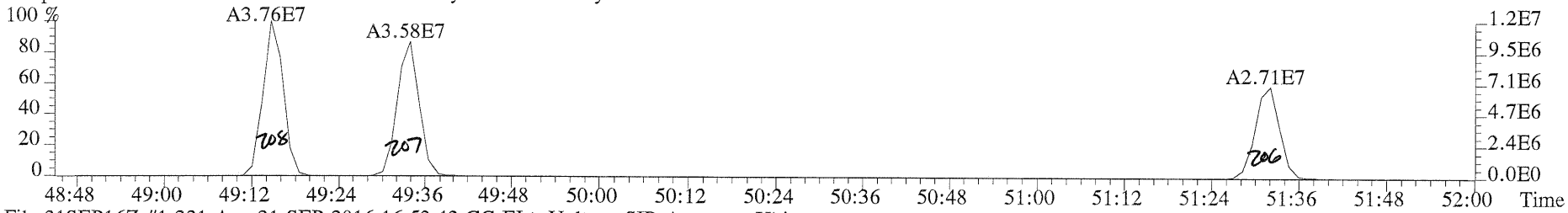
File:21SEP16Z #1-221 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



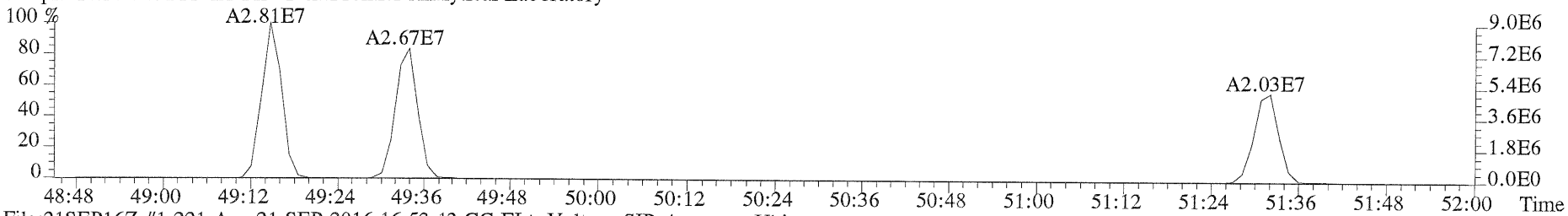
File:21SEP16Z #1-221 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



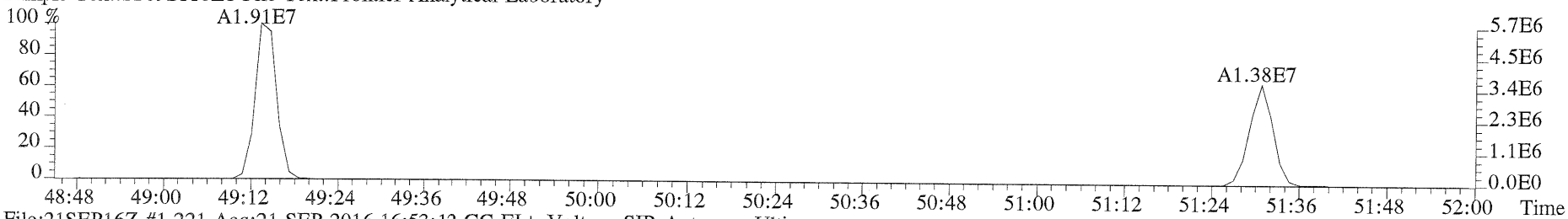
File:21SEP16Z #1-221 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



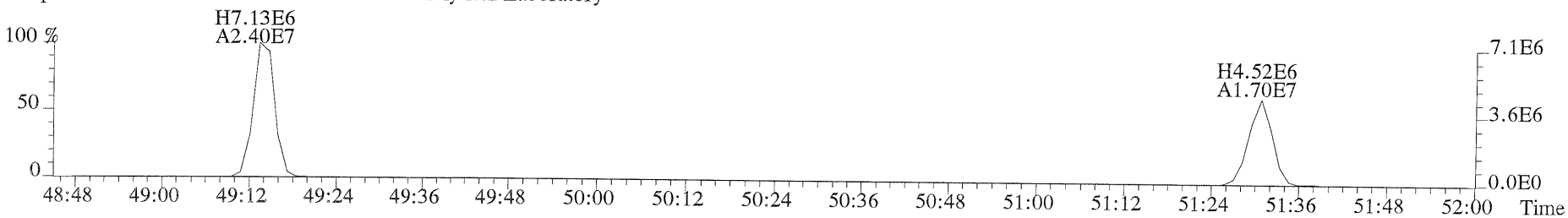
File:21SEP16Z #1-221 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



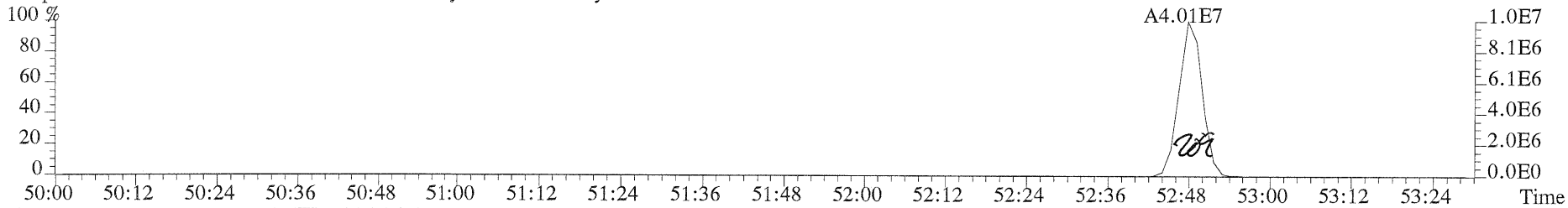
File:21SEP16Z #1-221 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



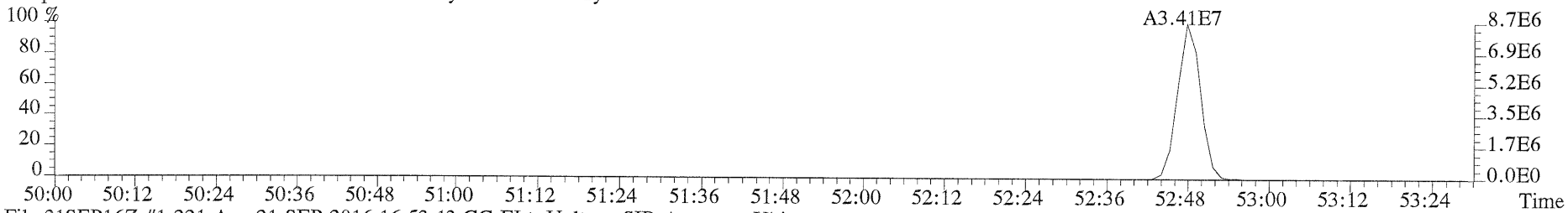
File:21SEP16Z #1-221 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



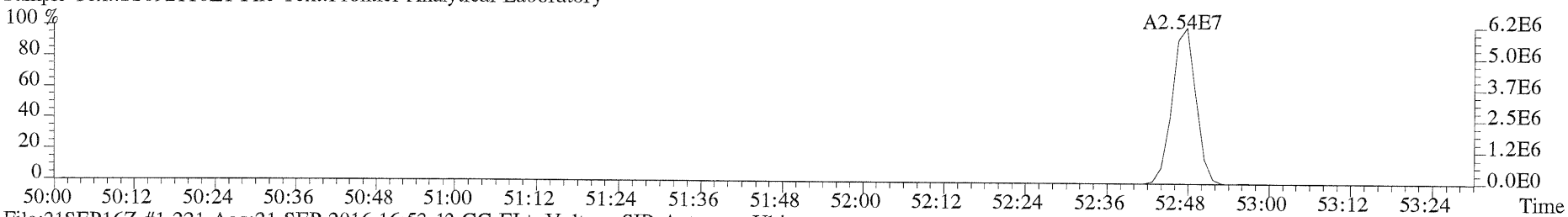
File:21SEP16Z #1-221 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



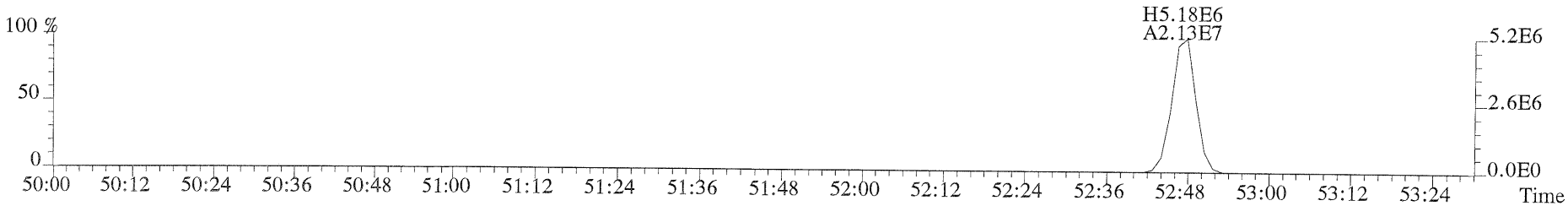
File:21SEP16Z #1-221 Acq:21-SEP-2016 16:53:12 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092116Z1 File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-221 Acq:21-SEP-2016 16:53:12 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:SS092116Z1 File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-221 Acq:21-SEP-2016 16:53:12 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:SS092116Z1 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: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 21SEP16Z Sam:7 Analysis Date: 21-SEP-16 21:50:46

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.06	2.66-3.60	y	44.0	37.5 - 62.5
PCB-3	M/M+2	3.01	2.66-3.60	y	45.6	37.5 - 62.5
PCB-4	M/M+2	1.51	1.33-1.79	y	46.3	37.5 - 62.5
PCB-15	M/M+2	1.54	1.33-1.79	y	49.2	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	44.3	37.5 - 62.5
PCB-37	M/M+2	1.04	0.88-1.20	y	58.1	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	0.77	0.65-0.89	y	49.5	37.5 - 62.5
PCB-81	M/M+2	0.76	0.65-0.89	y	47.8	37.5 - 62.5
PCB-104	M+2/M+4	1.57	1.32-1.78	y	48.6	37.5 - 62.5
PCB-105	M+2/M+4	1.51	1.32-1.78	y	47.2	37.5 - 62.5
PCB-114	M+2/M+4	1.47	1.32-1.78	y	46.3	37.5 - 62.5
PCB-118	M+2/M+4	1.51	1.32-1.78	y	47.2	37.5 - 62.5
PCB-123	M+2/M+4	1.50	1.32-1.78	y	49.5	37.5 - 62.5
PCB-126	M+2/M+4	1.52	1.32-1.78	y	47.7	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	47.7	37.5 - 62.5
PCB-156	M+2/M+4	1.24	1.05-1.43	y	48.7	37.5 - 62.5
PCB-157	M+2/M+4	1.25	1.05-1.43	y	48.9	37.5 - 62.5
PCB-167	M+2/M+4	1.24	1.05-1.43	y	49.3	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	48.3	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	50.7	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	47.5	37.5 - 62.5
PCB-202	M+2/M+4	0.88	0.76-1.02	y	46.1	37.5 - 62.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	53.4	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	54.3	37.5 - 62.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	52.6	37.5 - 62.5
PCB-209	M+4/M+6	1.17	0.99-1.33	y	47.8	37.5 - 62.5

Analyst: [signature] Date: 9/22/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 21SEP16Z Sam:7 Analysis Date: 21-SEP-16 21:50:46

	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	3.13	2.66-3.60	y	109	50.0 - 145
13C-PCB-3	M/M+2	3.36	2.66-3.60	y	96.9	50.0 - 145
13C-PCB-4	M/M+2	1.59	1.33-1.79	y	100	50.0 - 145
13C-PCB-15	M/M+2	1.57	1.33-1.79	y	83.6	50.0 - 145
13C-PCB-19	M/M+2	1.03	0.88-1.20	y	118	50.0 - 145
13C-PCB-37	M/M+2	0.97	0.88-1.20	y	60.8	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	94.3	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	78.7	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	78.5	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	112	50.0 - 145
13C-PCB-105	M+2/M+4	1.57	1.32-1.78	y	86.8	50.0 - 145
13C-PCB-114	M+2/M+4	1.59	1.32-1.78	y	89.5	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	88.6	50.0 - 145
13C-PCB-123	M+2/M+4	1.57	1.32-1.78	y	83.5	50.0 - 145
13C-PCB-126	M+2/M+4	1.55	1.32-1.78	y	82.8	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	115	50.0 - 145
13C-PCB-156	M+2/M+4	1.24	1.05-1.43	y	96.7	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	99.9	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	98.6	50.0 - 145
13C-PCB-169	M+2/M+4	1.24	1.05-1.43	y	99.0	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	108	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	109	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	138	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	95.9	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	93.6	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	106	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	106	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.10	0.88-1.20	y	79.1	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	104	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	122	75.0 - 125

Analyst: [signature] Date: 9/22/16

FAL ID: ST092116Z2 Filename: 21SEP16Z Sam:7 Acquired: 21-SEP-16 21:50:46 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R160816B ConCal: ST092116Z1 EndCal: ST092116Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.45e+07	3.06 y	14:32	1.05	44.0		2.50	-	-	*	-
13C-PCB-1	7.46e+07	3.13 y	14:31	1.14	109		2.50				109
PCB-3	3.09e+07	3.01 y	17:00	1.05	45.6		2.50	-	-	*	-
13C-PCB-3	6.47e+07	3.36 y	16:59	1.11	96.9		2.50				96.9
PCB-4	2.15e+07	1.51 y	18:12	1.14	46.3		2.50	-	-	*	-
13C-PCB-4	4.08e+07	1.59 y	18:11	0.68	100		2.50				100
PCB-15	2.77e+07	1.54 y	23:48	1.09	49.2		2.50	-	-	*	-
13C-PCB-15	5.16e+07	1.57 y	23:47	1.02	83.6		2.50				83.6
PCB-19	2.25e+07	1.04 y	22:04	1.16	44.3		2.50	-	-	*	-
13C-PCB-19	4.37e+07	1.03 y	22:03	0.61	118		2.50				118
13C-PCB-9	6.03e+07	1.56 y	19:53	-	44.1		2.50				
PCB-37	2.34e+07	1.04 y	30:28	1.14	58.1		2.50	-	-	*	-
13C-PCB-37	3.53e+07	0.97 y	30:26	1.38	60.8		2.50				60.8
PCB-54	2.54e+07	0.78 y	25:37	1.05	48.4		2.50	-	-	*	-
13C-PCB-54	4.99e+07	0.80 y	25:36	1.25	94.3		2.50				94.3
PCB-104	2.39e+07	1.57 y	30:02	1.14	48.6		2.50	-	-	*	-
13C-PCB-104	4.30e+07	1.59 y	30:01	0.91	112		2.50				112
13C-PCB-28	4.95e+07	1.10 y	26:43	1.48	79.1		2.50				79.1
13C-PCB-52	4.23e+07	0.78 y	28:57	-	50.7		2.50				
PCB-81	2.04e+07	0.76 y	36:12	1.14	47.8		2.50	-	-	*	-
13C-PCB-81	3.73e+07	0.79 y	36:11	1.27	78.5		2.50				78.5
PCB-77	2.04e+07	0.77 y	36:47	1.10	49.5		2.50	-	-	*	-
13C-PCB-77	3.74e+07	0.80 y	36:45	1.27	78.7		2.50				78.7
PCB-155	2.48e+07	1.26 y	34:11	1.11	47.7		2.50	-	-	*	-
13C-PCB-155	4.68e+07	1.28 y	34:10	1.09	115		2.50				115
13C-PCB-111	4.89e+07	1.60 y	36:16	1.25	104		2.50				104
13C-PCB-101	3.74e+07	1.59 y	34:38	-	51.3		2.50				
PCB-123	1.74e+07	1.50 y	38:20	1.05	49.5		2.50	-	-	*	-
13C-PCB-123	3.34e+07	1.57 y	38:20	1.20	83.5		2.50				83.5
PCB-118	1.94e+07	1.51 y	38:32	1.07	47.2		2.50	-	-	*	-
13C-PCB-118	3.86e+07	1.58 y	38:30	1.31	88.6		2.50				88.6
PCB-114	1.84e+07	1.47 y	39:08	1.08	46.3		2.50	-	-	*	-
13C-PCB-114	3.67e+07	1.59 y	39:08	1.23	89.5		2.50				89.5
PCB-105	1.82e+07	1.51 y	39:57	1.08	47.2		2.50	-	-	*	-
13C-PCB-105	3.57e+07	1.57 y	39:57	1.24	86.8		2.50				86.8
PCB-126	1.64e+07	1.52 y	42:07	1.07	47.7		2.50	-	-	*	-
13C-PCB-126	3.23e+07	1.55 y	42:07	1.17	82.8		2.50				82.8
PCB-167	1.96e+07	1.24 y	43:26	0.98	49.3		2.50	-	-	*	-
13C-PCB-167	4.06e+07	1.26 y	43:26	1.24	98.6		2.50				98.6
PCB-156	1.87e+07	1.24 y	44:40	1.01	48.7		2.50	-	-	*	-
13C-PCB-156	3.79e+07	1.24 y	44:40	1.18	96.7		2.50				96.7
PCB-157	1.91e+07	1.25 y	44:57	0.96	48.9		2.50	-	-	*	-
13C-PCB-157	4.06e+07	1.27 y	44:55	1.22	99.9		2.50				99.9
PCB-169	1.76e+07	1.27 y	46:51	1.00	48.3		2.50	-	-	*	-
13C-PCB-169	3.64e+07	1.24 y	46:51	1.11	99.0		2.50				99.0
PCB-188	2.42e+07	1.06 y	39:41	1.09	50.7		2.50	-	-	*	-
13C-PCB-188	4.37e+07	1.06 y	39:41	1.22	108		2.50				108
PCB-189	1.91e+07	1.05 y	48:31	1.14	47.5		2.50	-	-	*	-
13C-PCB-189	3.52e+07	1.06 y	48:31	0.97	109		2.50				109
PCB-202	1.95e+07	0.88 y	44:49	1.05	46.1		2.50	-	-	*	-
13C-PCB-202	4.02e+07	0.90 y	44:49	0.88	138		2.50				138
13C-PCB-178	3.11e+07	1.06 y	42:19	0.77	122		2.50				122
13C-PCB-138	3.32e+07	1.26 y	41:33	-	47.6		2.50				

Client ID: 1668 CS3 R160816B ConCal: ST092116Z1 EndCal: ST092116Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	1.76e+07	0.88	y	50:14	1.02	53.4	2.50	-	-	*	-
13C-PCB-205	3.24e+07	0.91	y	50:14	1.38	95.9	2.50				95.9
PCB-208	1.66e+07	1.34	y	49:15	0.93	52.6	2.50	-	-	*	-
13C-PCB-208	3.39e+07	0.80	y	49:14	1.31	106	2.50				106
PCB-206	1.18e+07	1.35	y	51:31	0.94	54.3	2.50	-	-	*	-
13C-PCB-206	2.32e+07	0.80	y	51:30	1.01	93.6	2.50				93.6
PCB-209	1.82e+07	1.17	y	52:47	1.10	47.8	2.50	-	-	*	-
13C-PCB-209	3.46e+07	1.19	y	52:47	1.34	106	2.50				106
13C-PCB-194	2.44e+07	0.92	y	49:57	-	48.5	2.50				

Analyst: [illegible] Date: 9/22/16

Frontier Analytical Laboratory - Acquisition Log

Run Name:21SEP16Z Instrument: FAL4 GC: DB1 Experiment:1668PCB

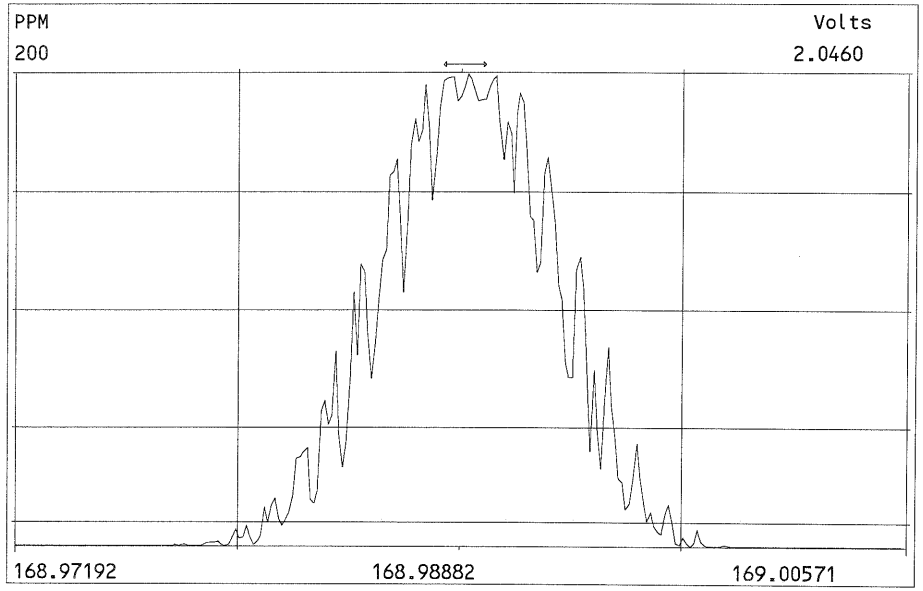
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
21SEP16Z	1	ST092116Z1	1668 CS3 R160816B	21-SEP-16 15:53:42	ST092116Z1	ST092116Z2	BS
21SEP16Z	2	SS092116Z1	Daily 209 160711B	21-SEP-16 16:53:12	ST092116Z1	ST092116Z2	BS
21SEP16Z	3	10146-002-0001-SA	LDW-BA-SC-ENR+AC-CB-S010	21-SEP-16 17:52:42	ST092116Z1	ST092116Z2	BS
21SEP16Z	4	10146-005-0001-SA	LDW-BA-SC-ENR-CB-S010	21-SEP-16 18:52:13	ST092116Z1	ST092116Z2	BS
21SEP16Z	5	10146-007-0001-SA	LDW-BA-IN-ENR+AC-CA-S010	21-SEP-16 19:51:45	ST092116Z1	ST092116Z2	BS
21SEP16Z	6	SB092116Z1	Solvent Blank	21-SEP-16 20:51:16	ST092116Z1	ST092116Z2	BS
21SEP16Z	7	ST092116Z2	1668 CS3 R160816B	21-SEP-16 21:50:46	ST092116Z1	ST092116Z2	BS

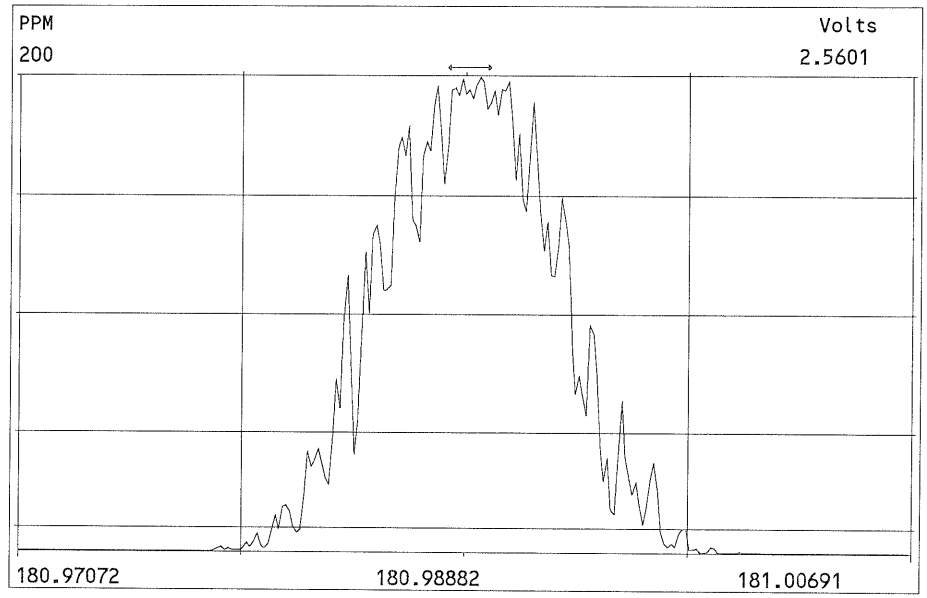
6 9/22/16

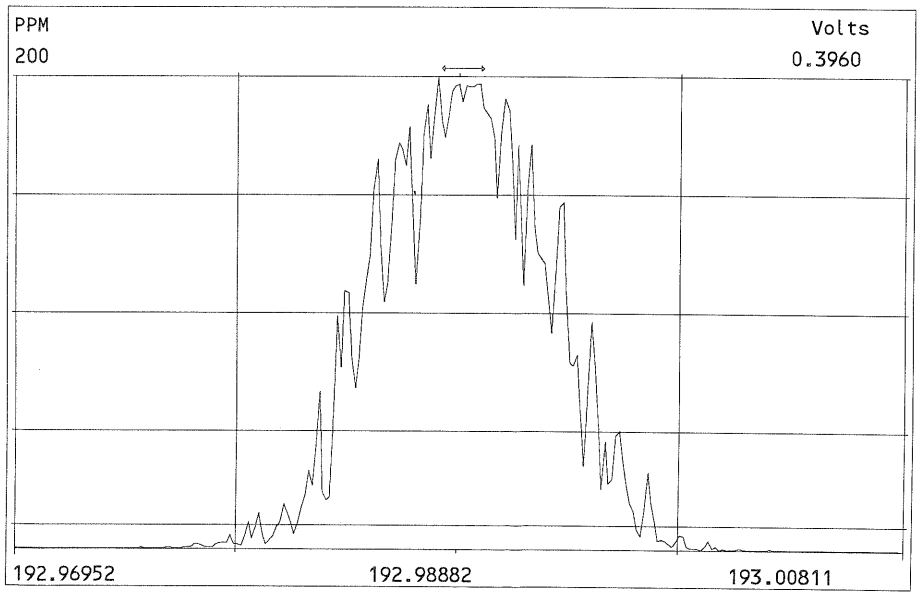
Data Backed Up:_____

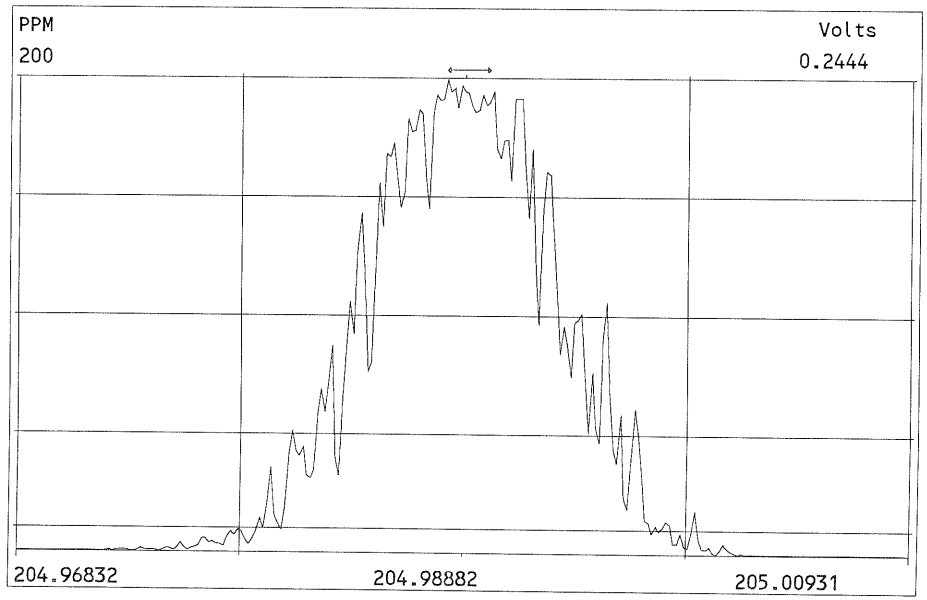
Date:_____

Peak Locate Examination:21-SEP-2016:15:50 File:21SEP16Z
Experiment:1668PCB Function:1 Reference:PFK

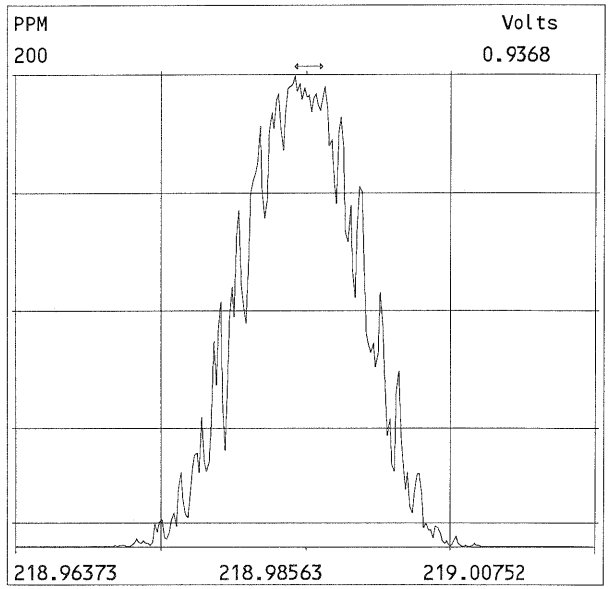


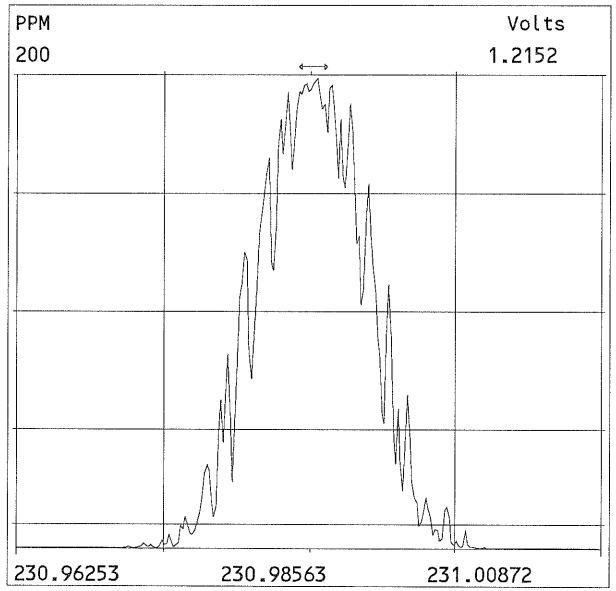


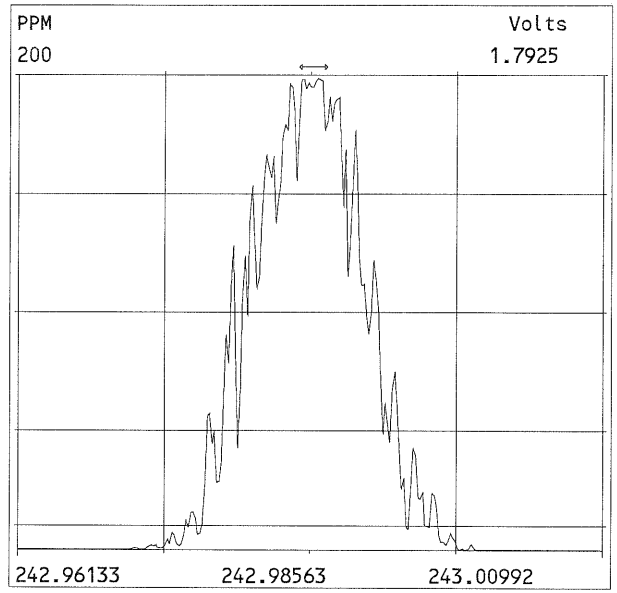


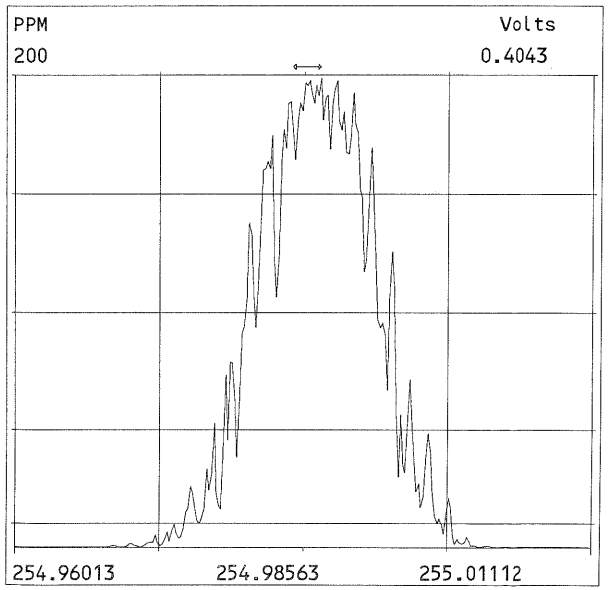


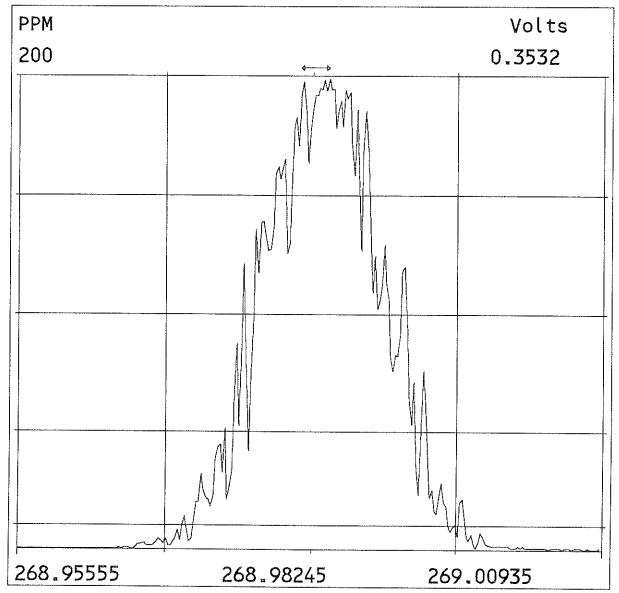
Peak Locate Examination:21-SEP-2016:15:51 File:21SEP16Z
Experiment:1668PCB Function:2 Reference:PFK

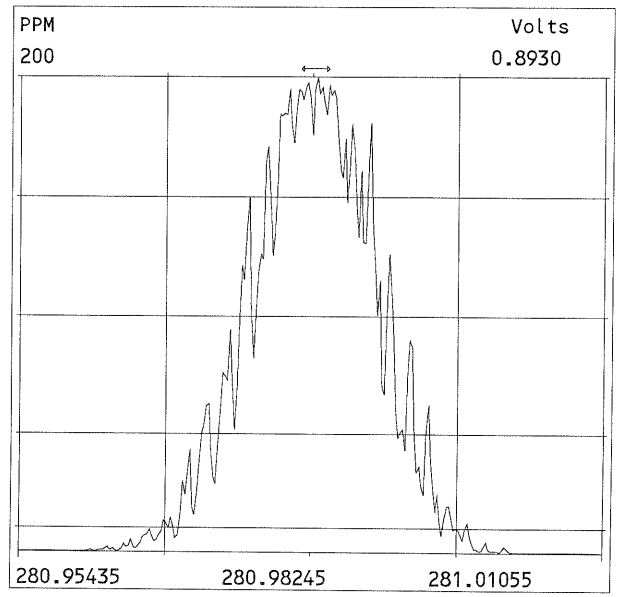




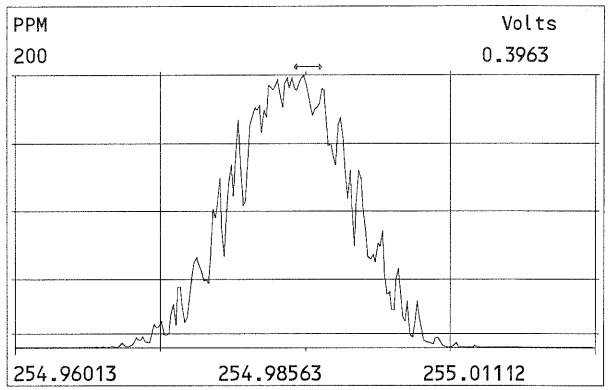


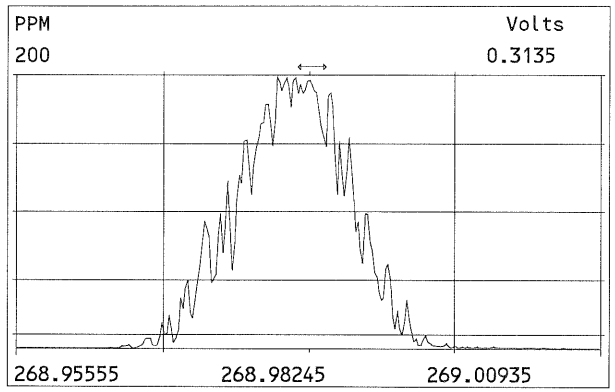


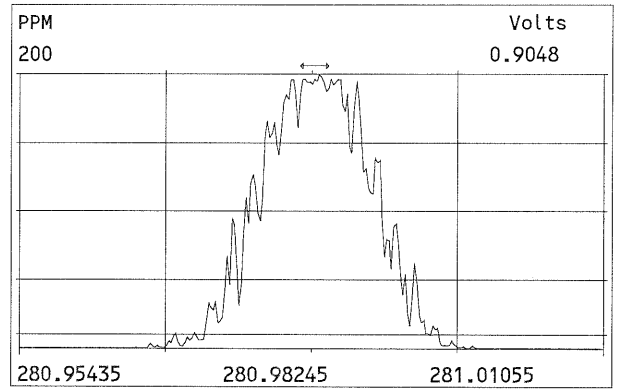


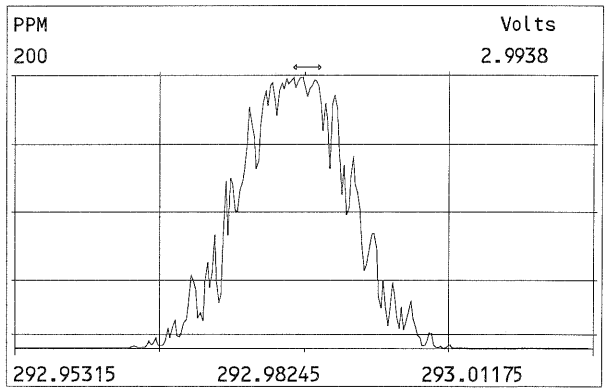


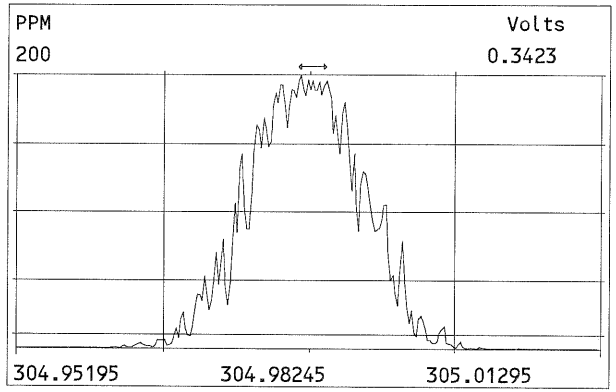
Peak Locate Examination:21-SEP-2016:15:51 File:21SEP16Z
Experiment:1668PCB Function:3 Reference:PFK

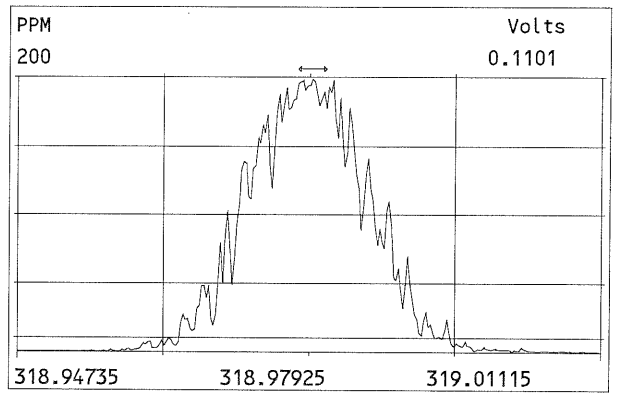


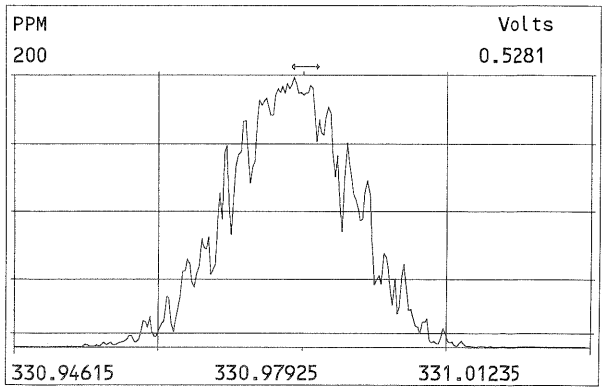


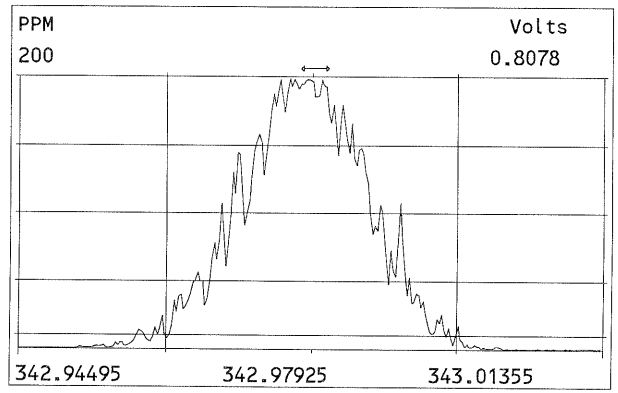




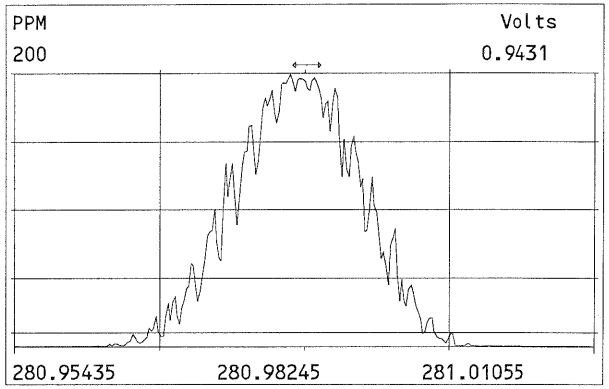


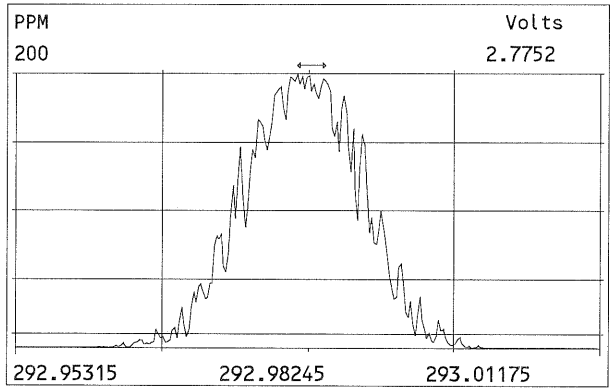


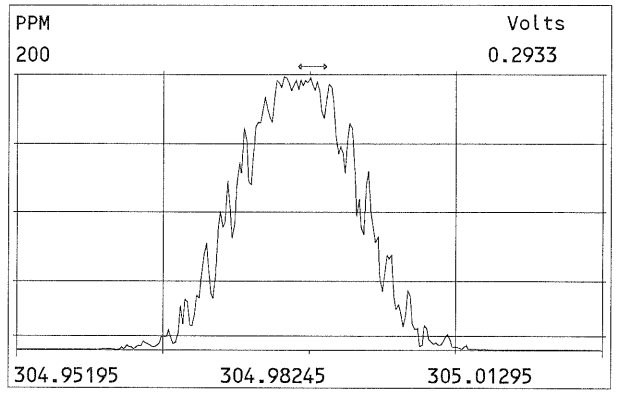


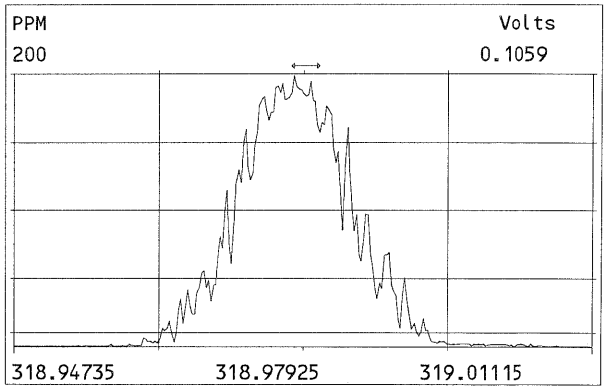


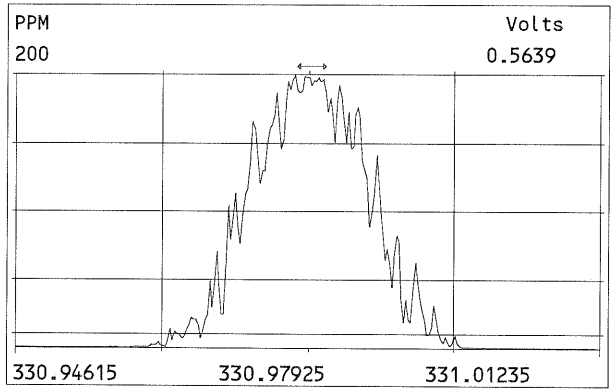
Peak Locate Examination:21-SEP-2016:15:52 File:21SEP16Z
Experiment:1668PCB Function:4 Reference:PFK

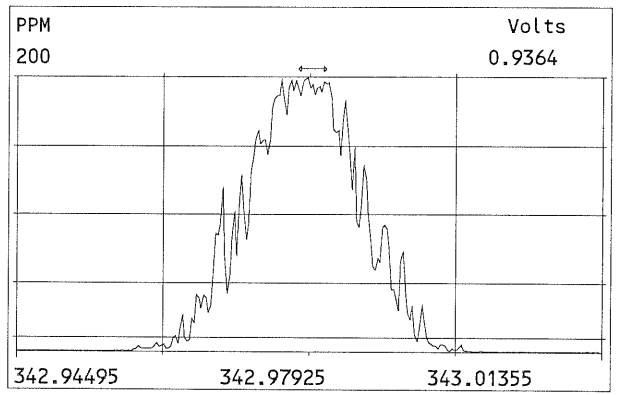


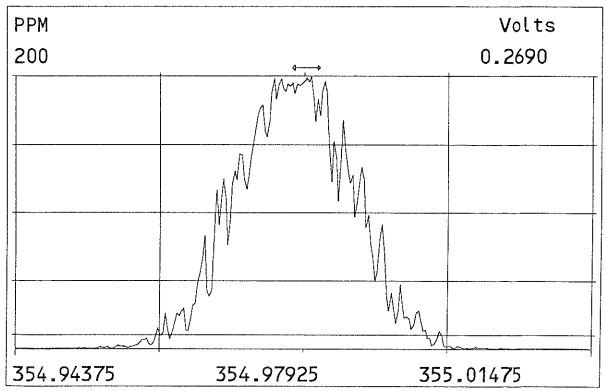


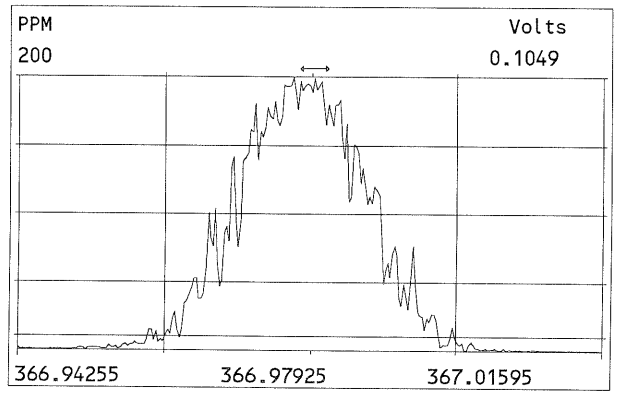


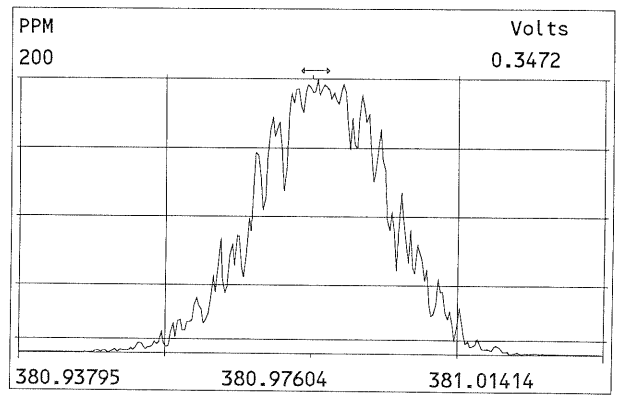




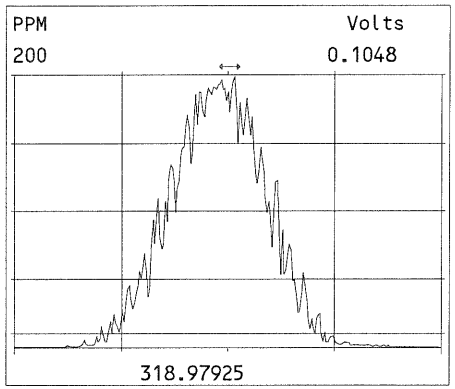


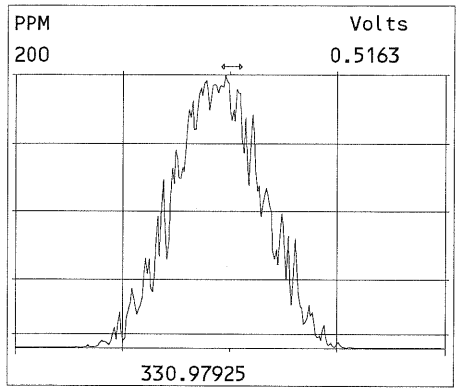


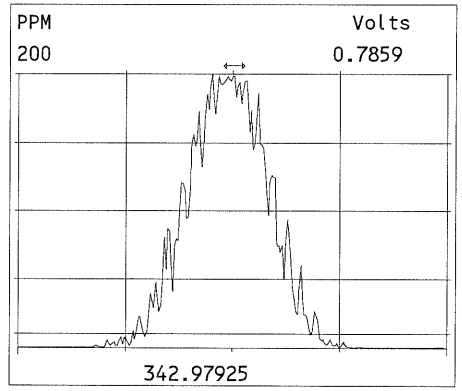


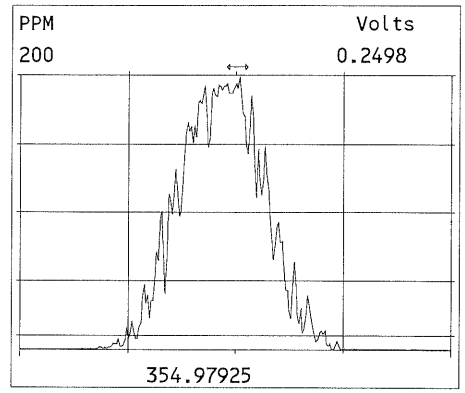


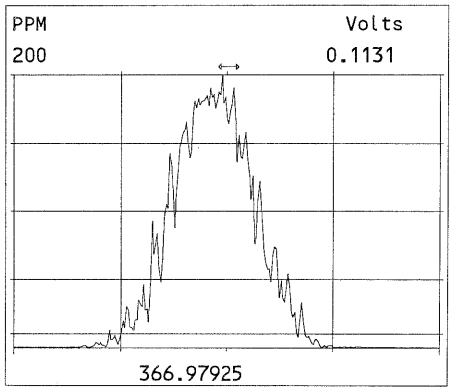
Peak Locate Examination:21-SEP-2016:15:52 File:21SEP16Z
Experiment:1668PCB Function:5 Reference:PFK

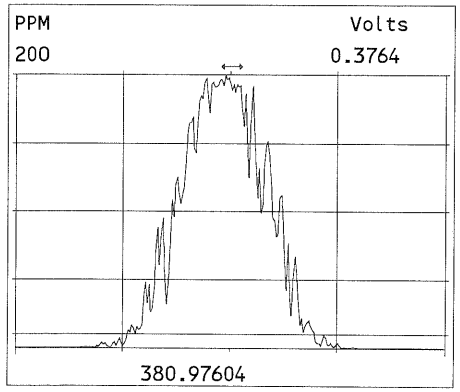


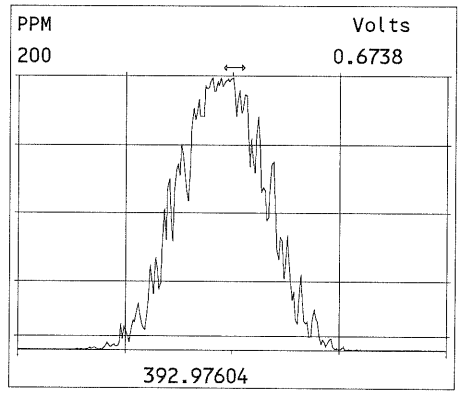


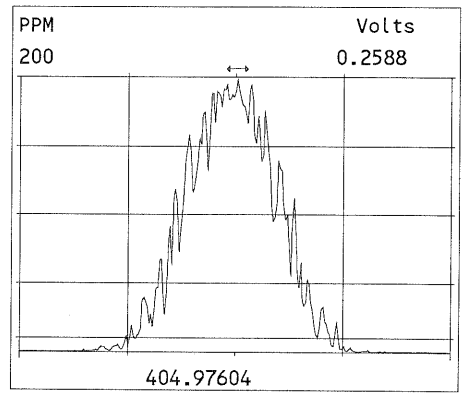


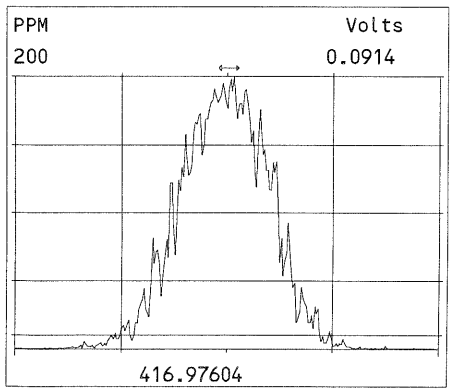


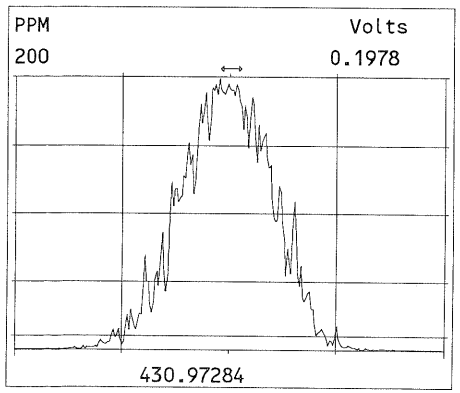


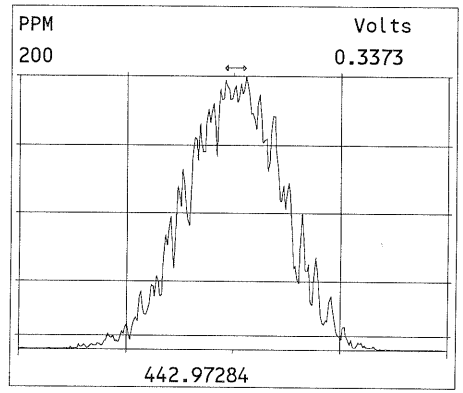




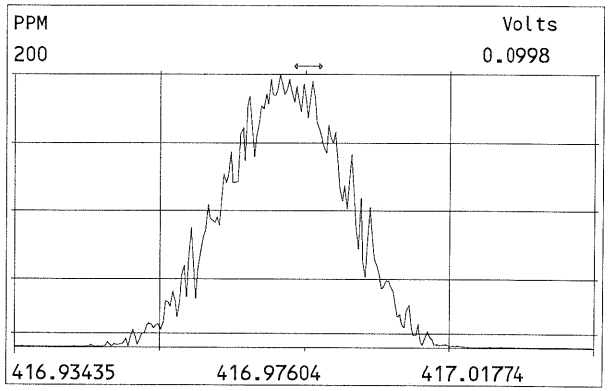


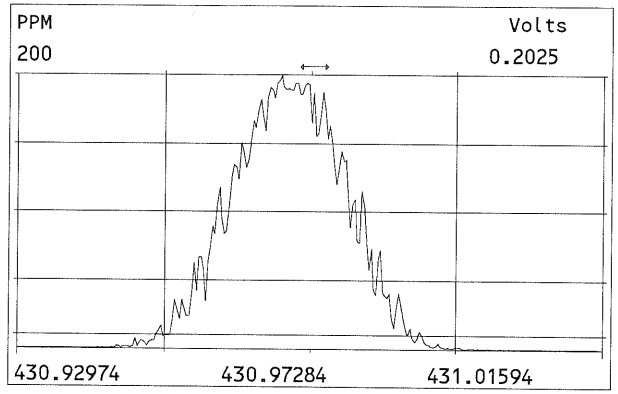


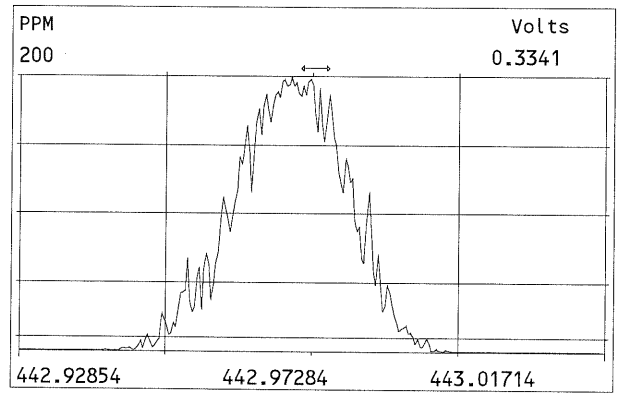


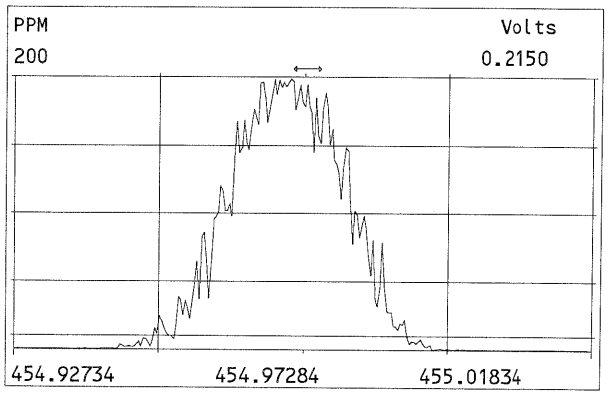


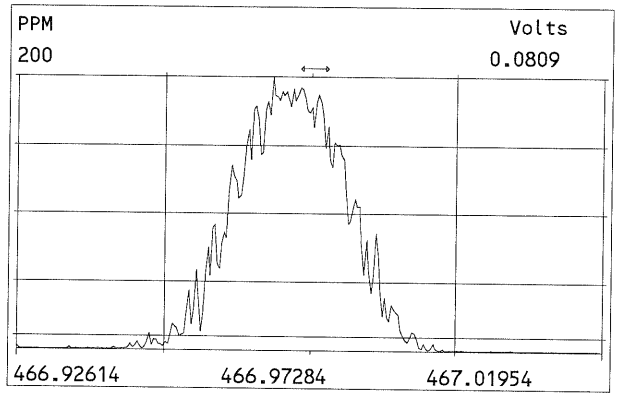
Peak Locate Examination:21-SEP-2016:15:53 File:21SEP16Z
Experiment:1668PCB Function:6 Reference:PFK

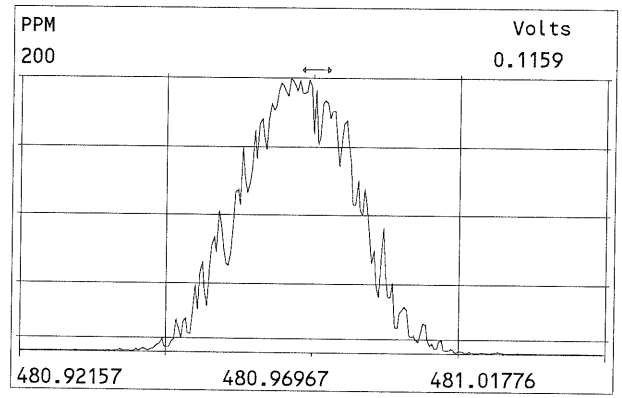


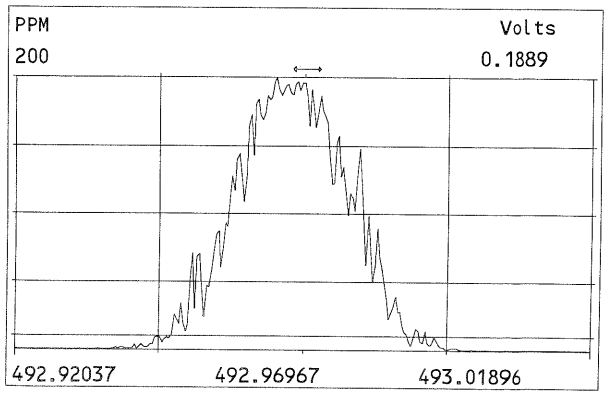


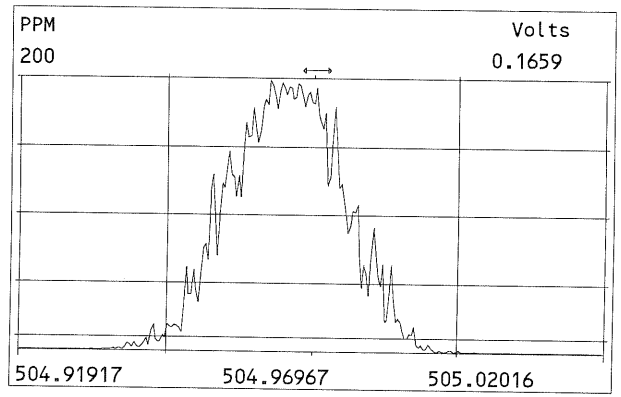


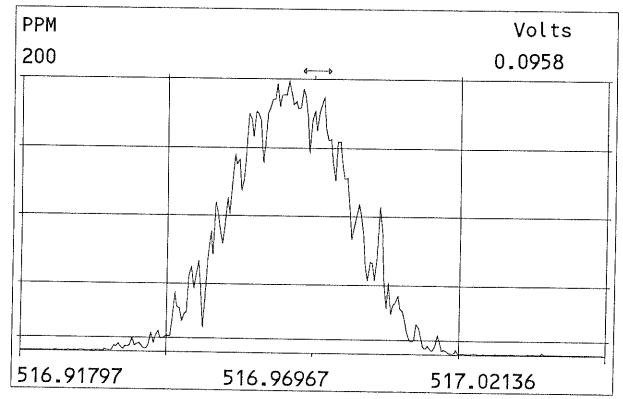












File:21SEP16Z #1-549 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
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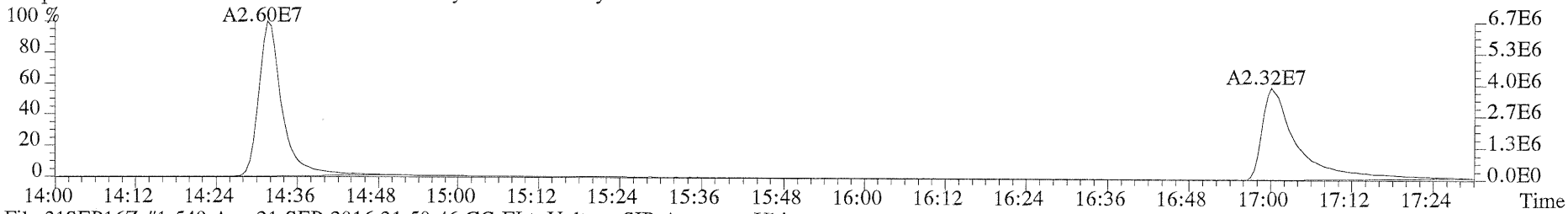
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



File:21SEP16Z #1-549 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
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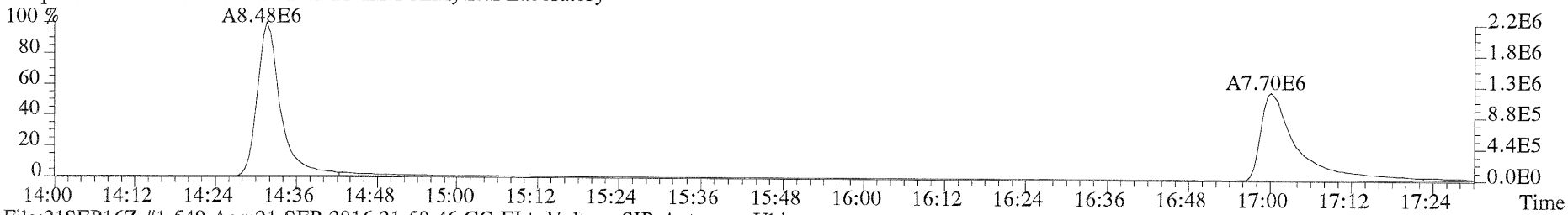
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



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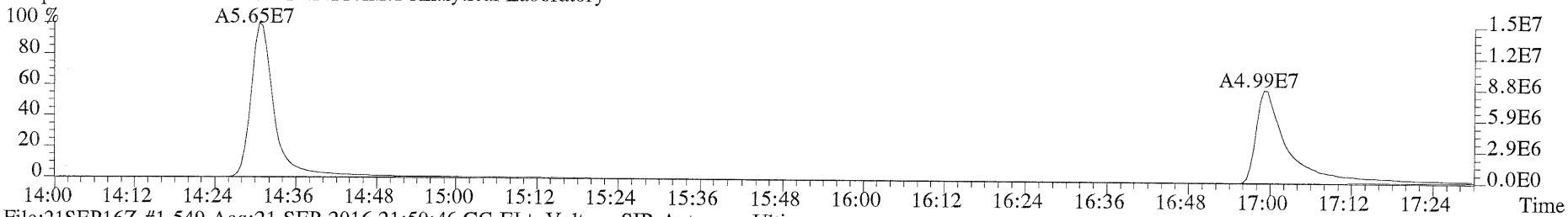
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



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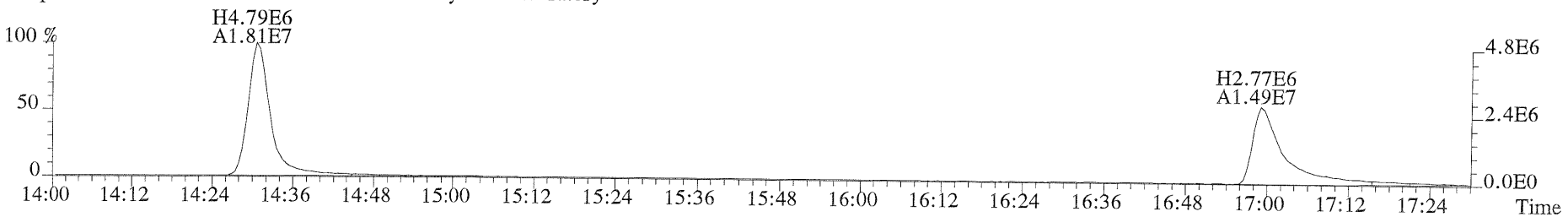
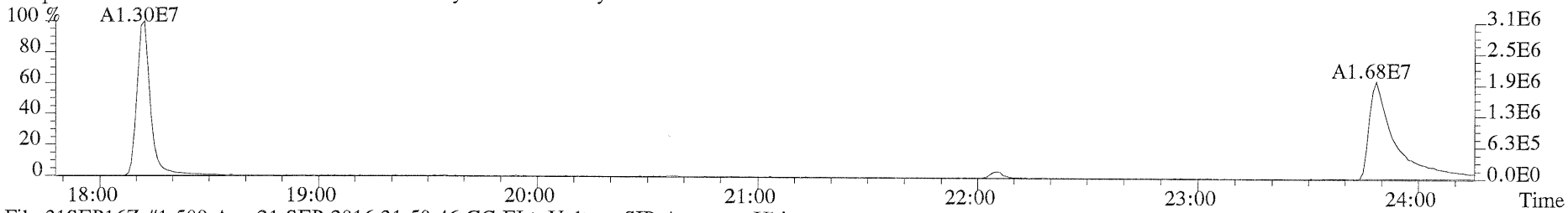
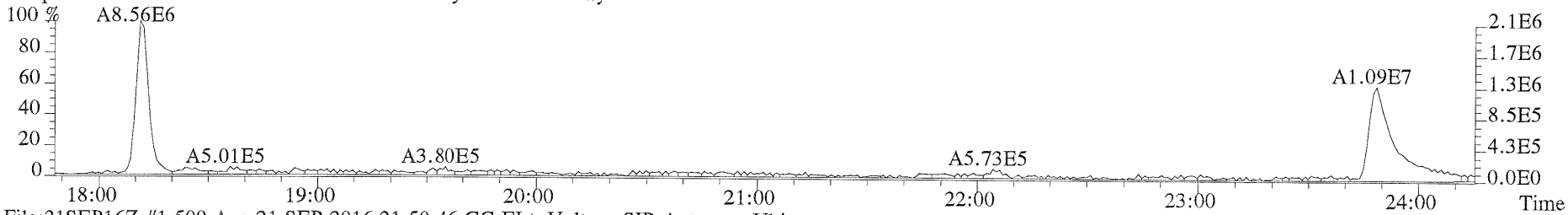
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



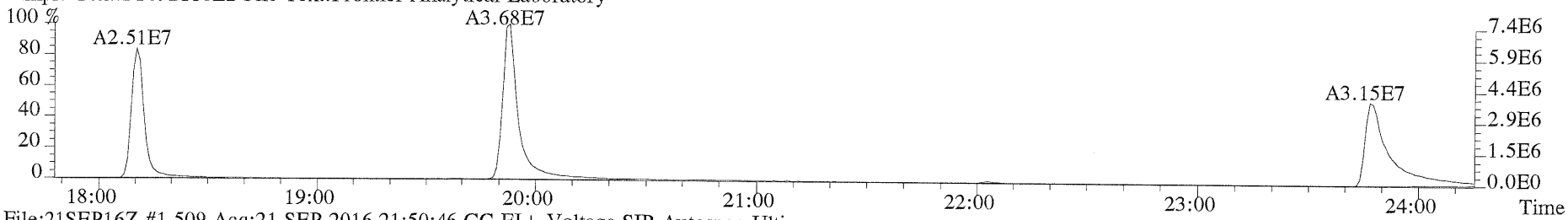
File:21SEP16Z #1-509 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



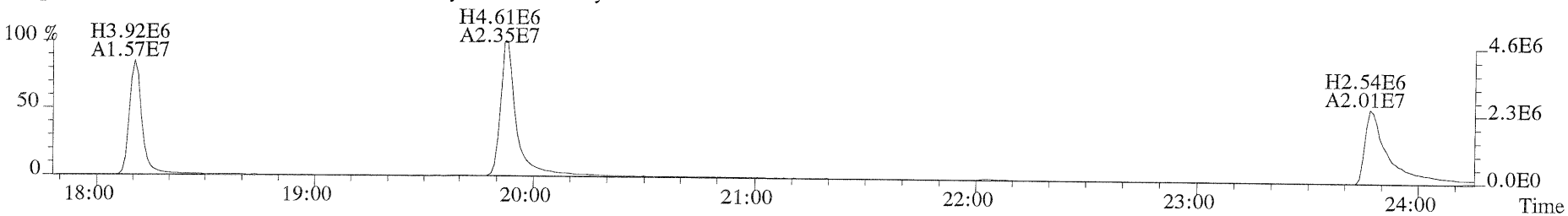
File:21SEP16Z #1-509 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



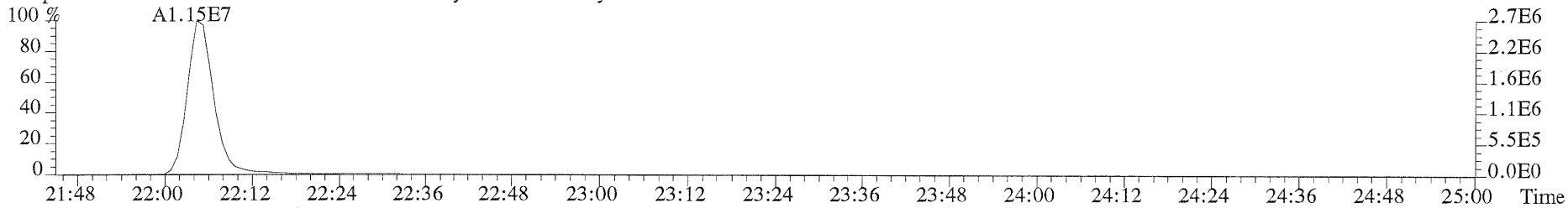
File:21SEP16Z #1-509 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



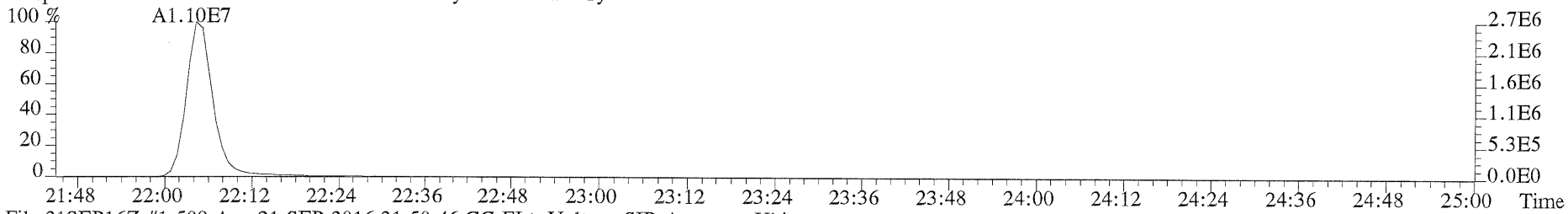
File:21SEP16Z #1-509 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



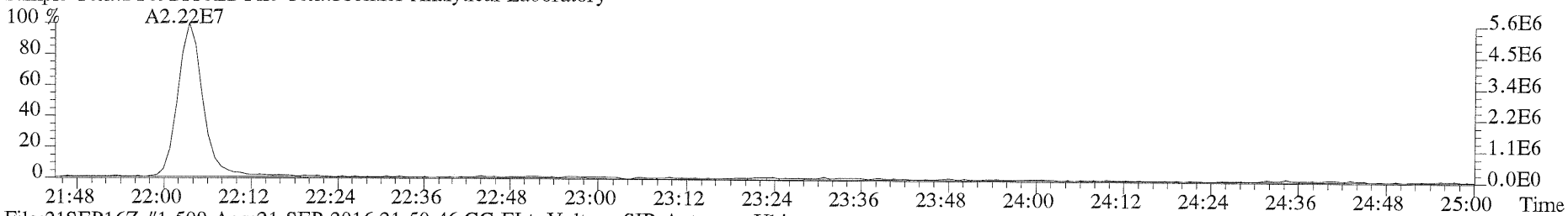
File:21SEP16Z #1-509 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



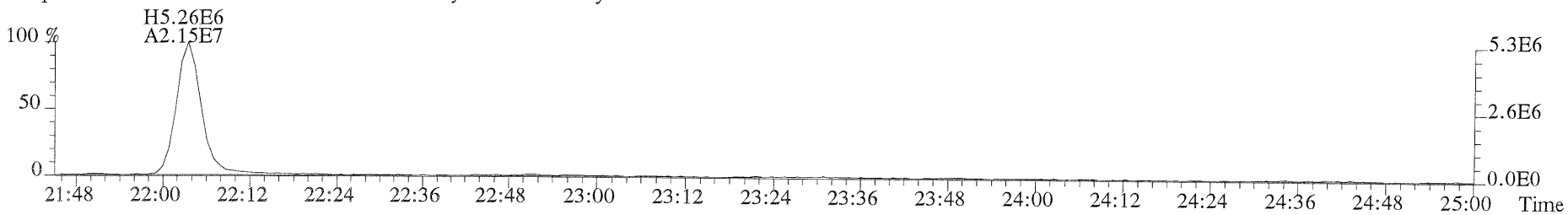
File:21SEP16Z #1-509 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



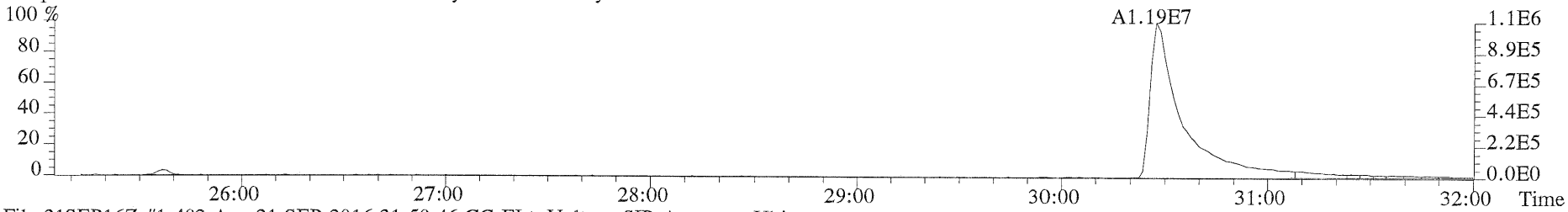
File:21SEP16Z #1-509 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



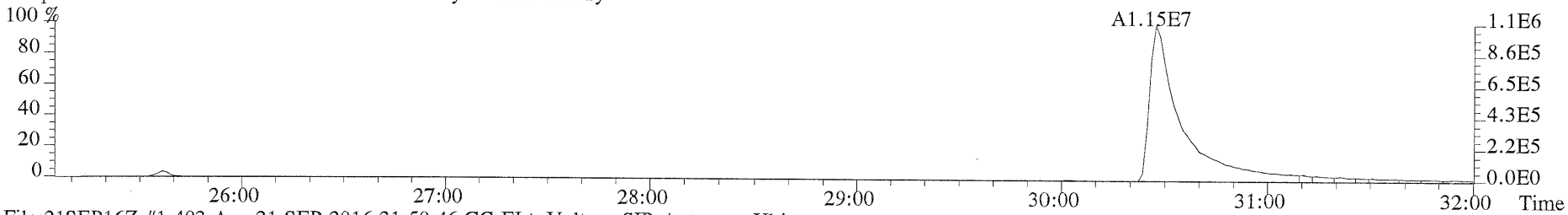
File:21SEP16Z #1-509 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



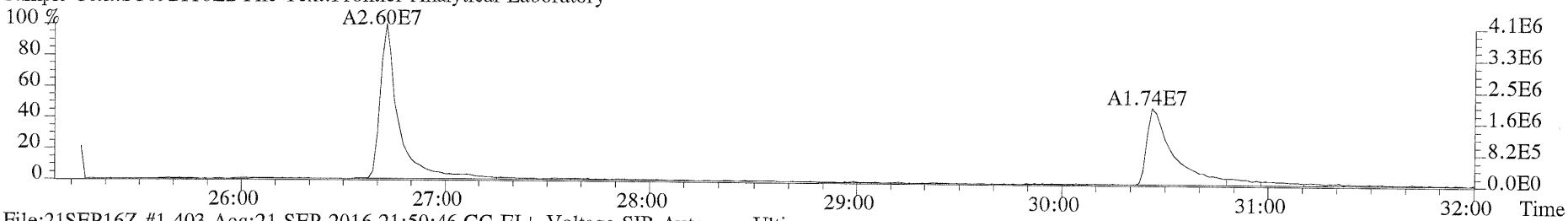
File:21SEP16Z #1-403 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



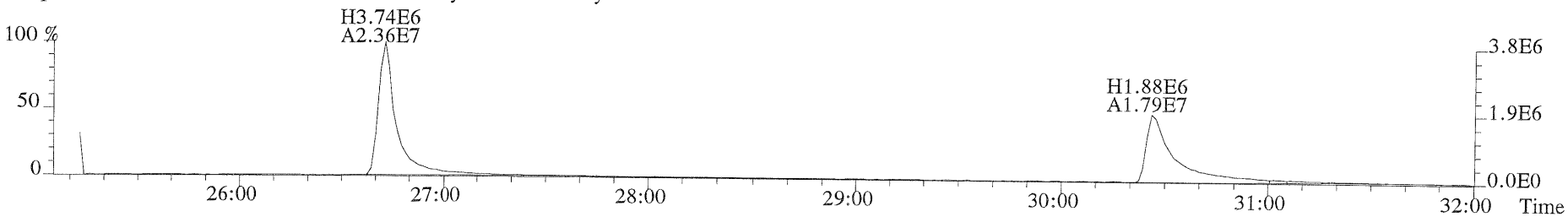
File:21SEP16Z #1-403 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



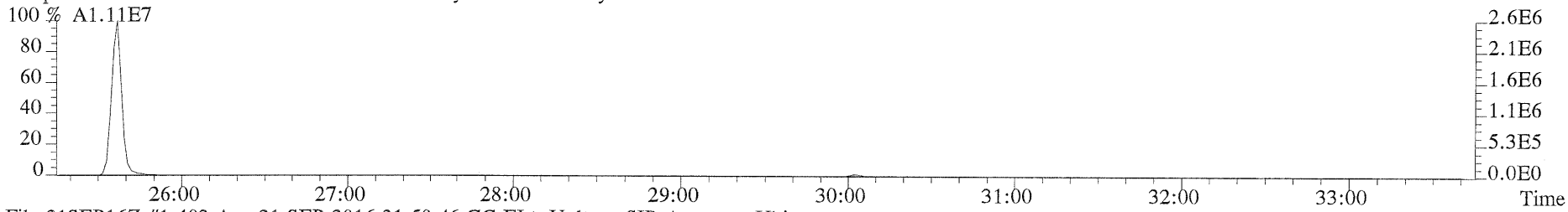
File:21SEP16Z #1-403 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



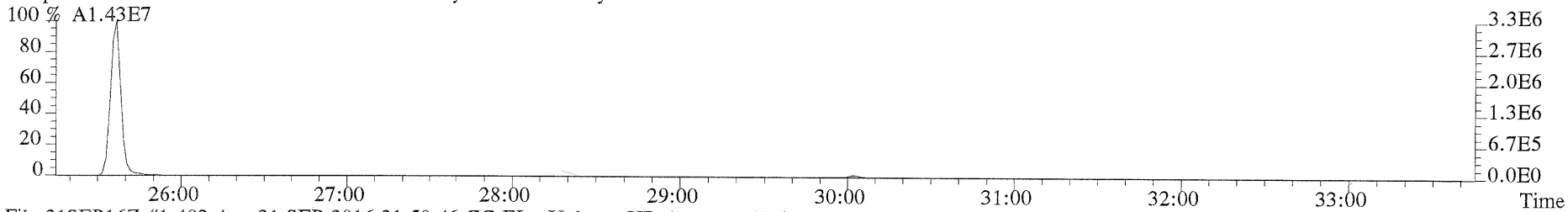
File:21SEP16Z #1-403 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



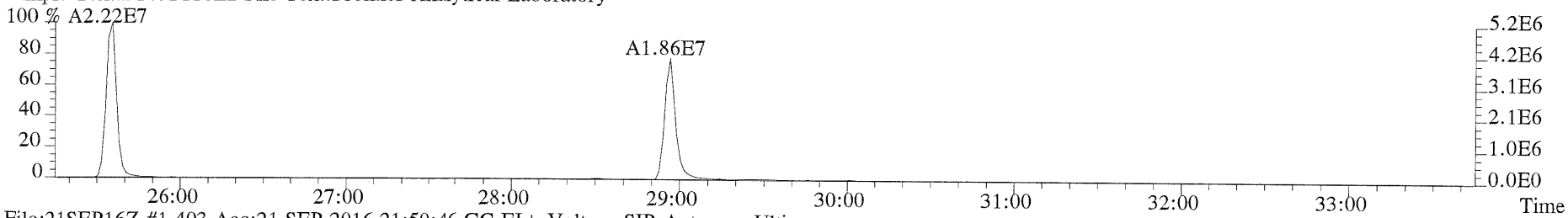
File:21SEP16Z #1-403 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



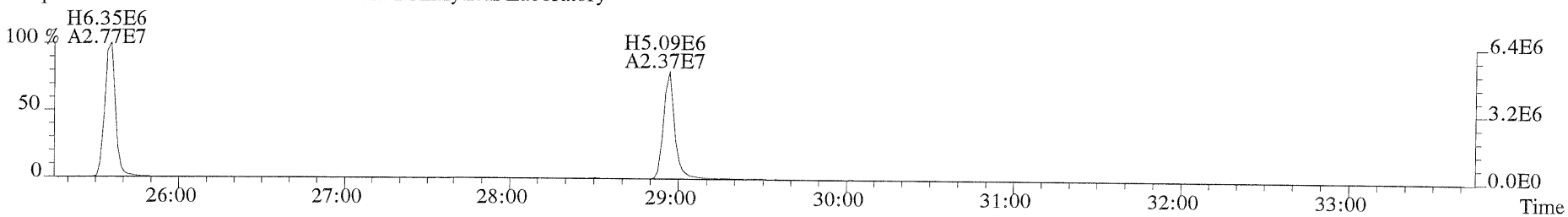
File:21SEP16Z #1-403 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



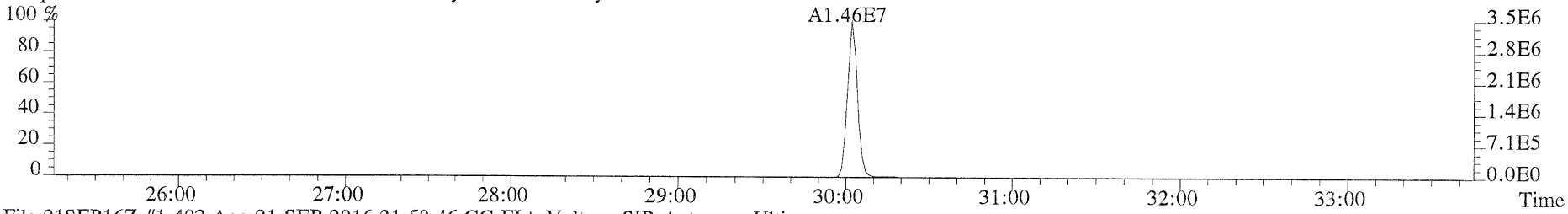
File:21SEP16Z #1-403 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



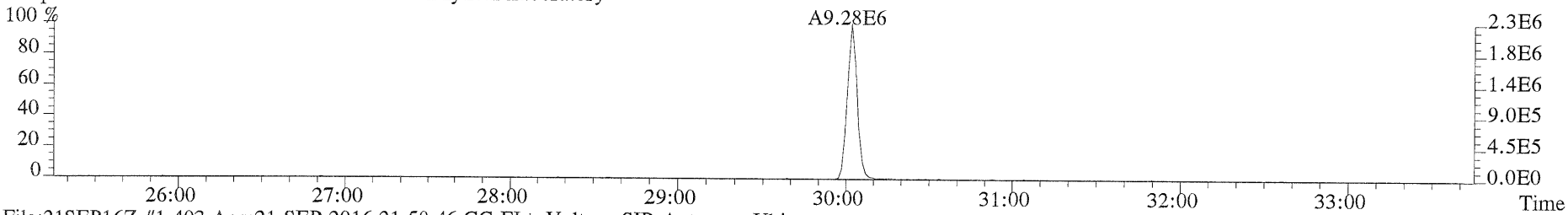
File:21SEP16Z #1-403 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



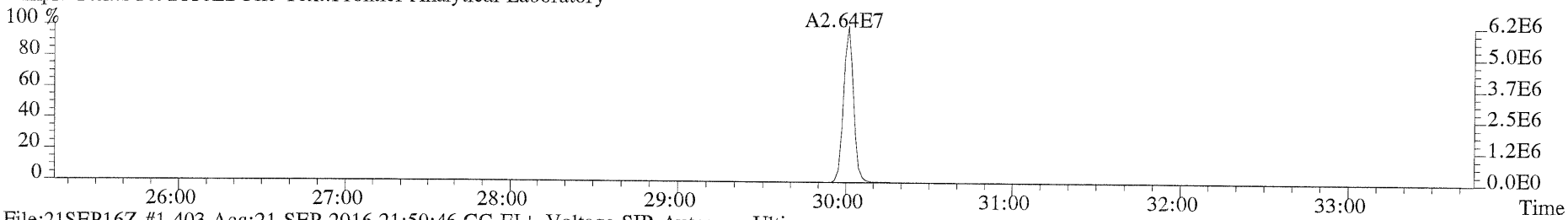
File:21SEP16Z #1-403 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



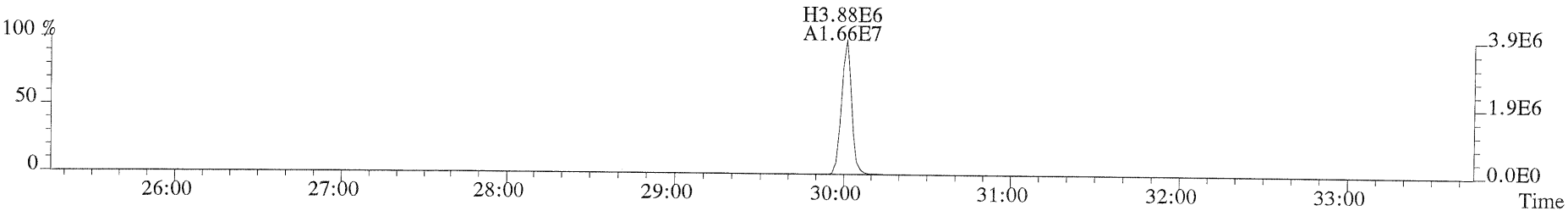
File:21SEP16Z #1-403 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



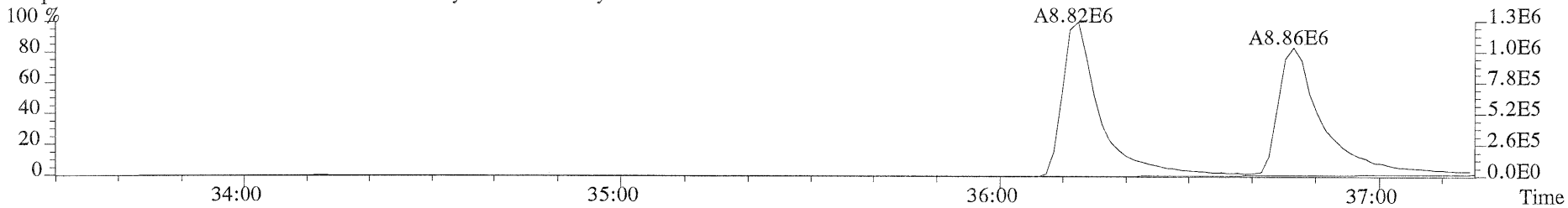
File:21SEP16Z #1-403 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



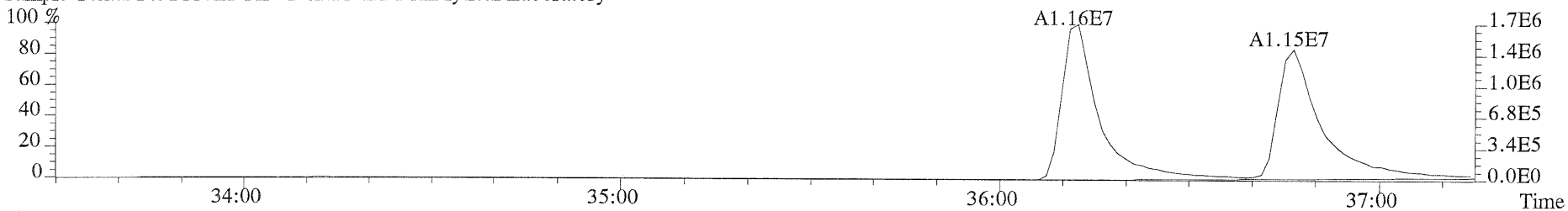
File:21SEP16Z #1-403 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



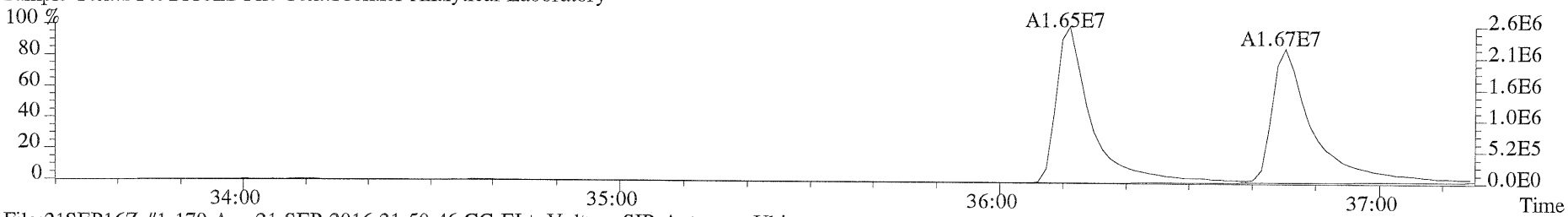
File:21SEP16Z #1-179 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



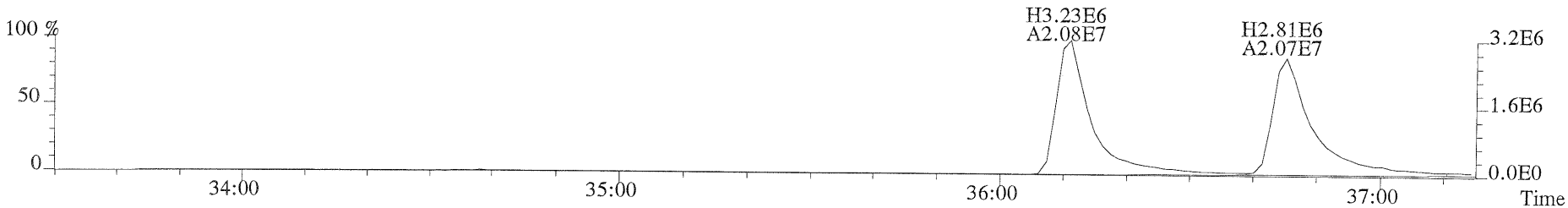
File:21SEP16Z #1-179 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



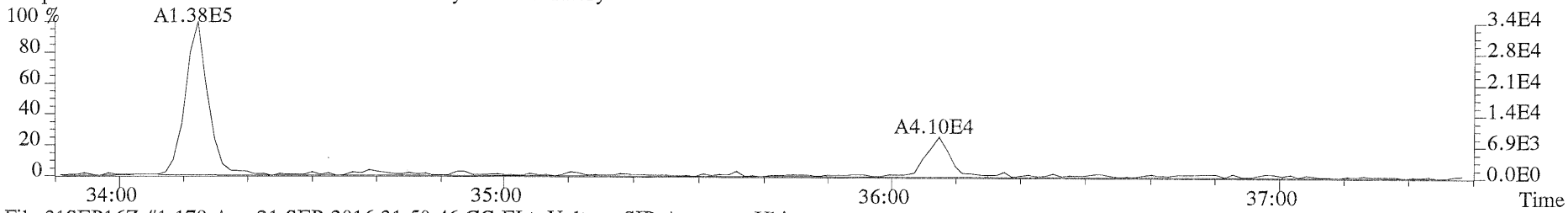
File:21SEP16Z #1-179 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



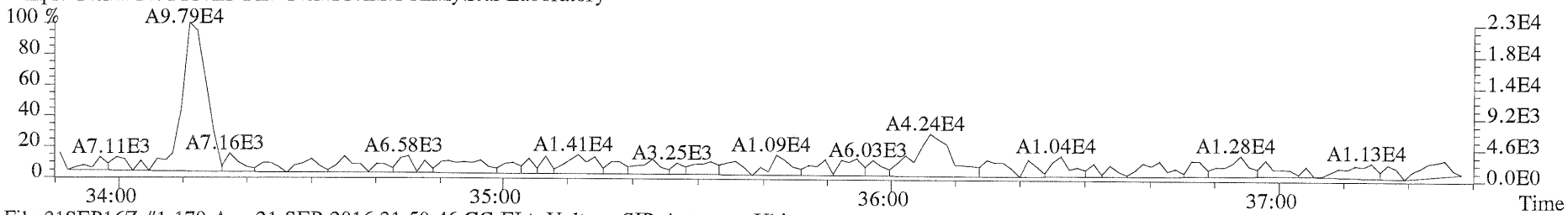
File:21SEP16Z #1-179 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



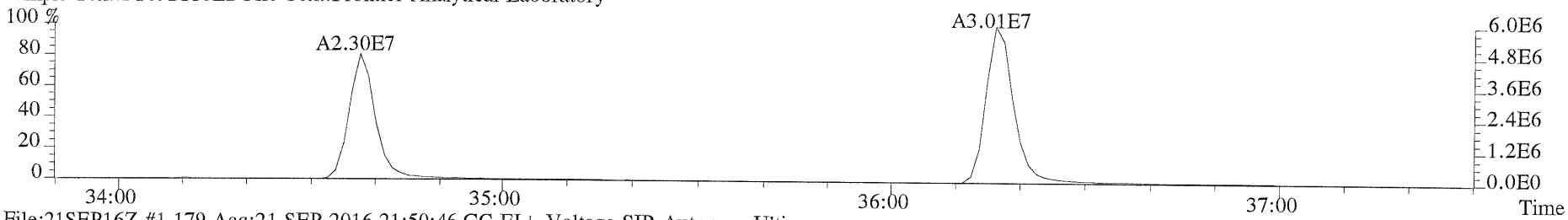
File:21SEP16Z #1-179 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



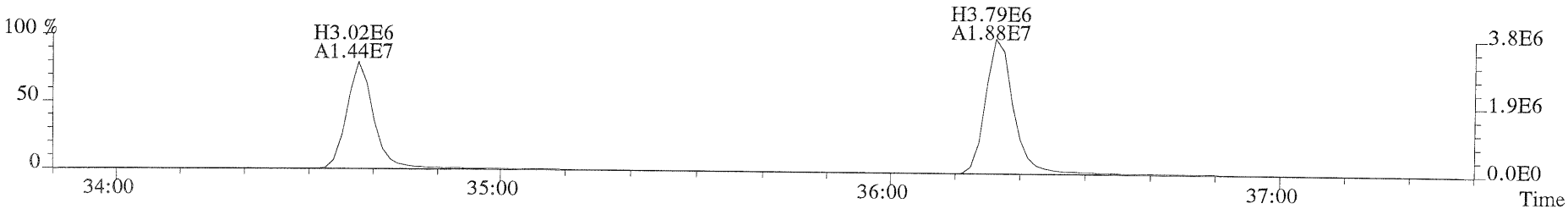
File:21SEP16Z #1-179 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



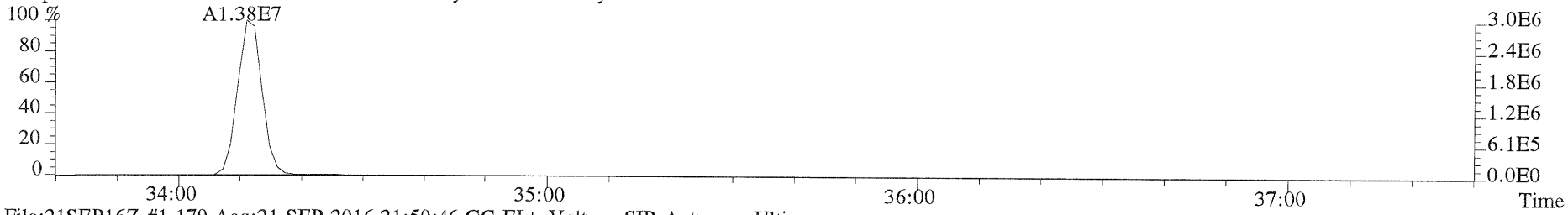
File:21SEP16Z #1-179 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



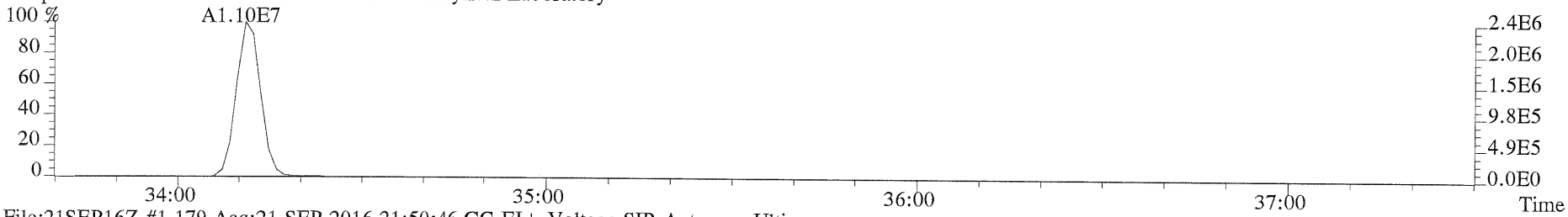
File:21SEP16Z #1-179 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



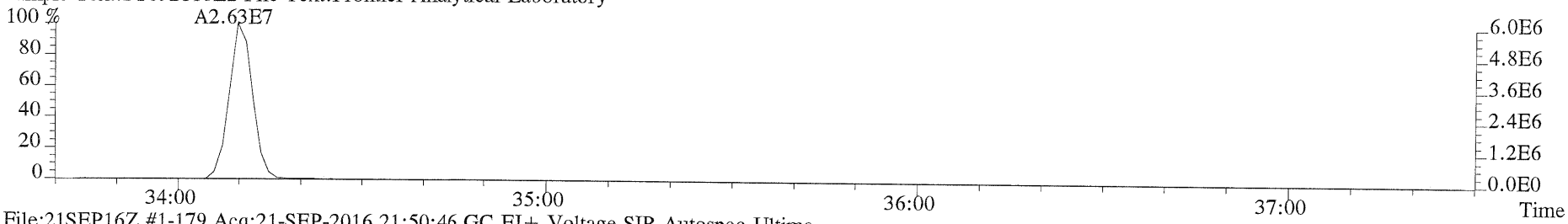
File:21SEP16Z #1-179 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



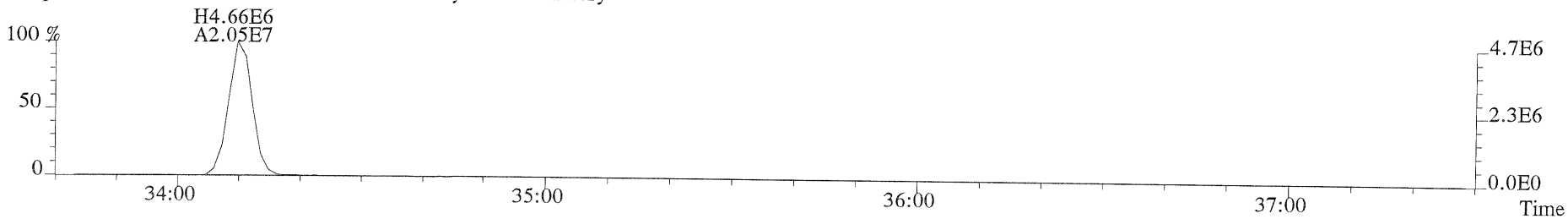
File:21SEP16Z #1-179 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



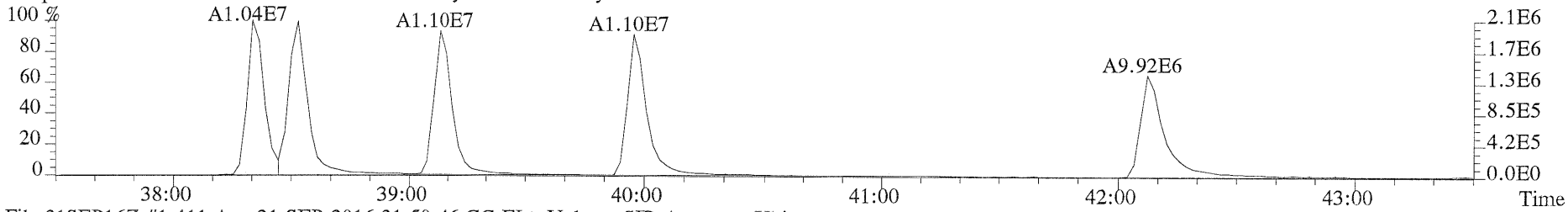
File:21SEP16Z #1-179 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



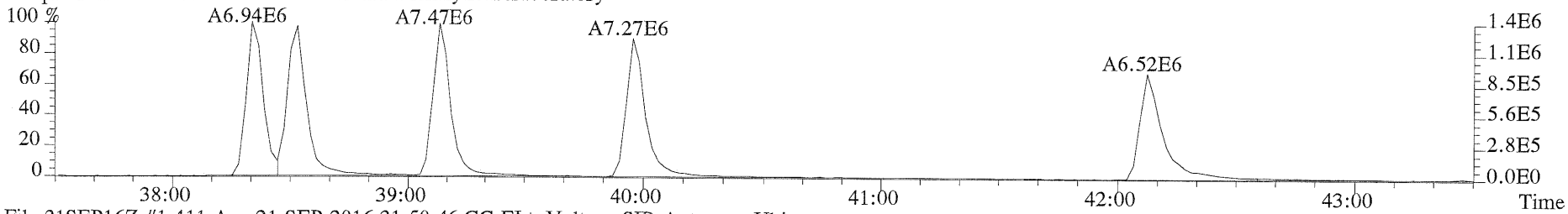
File:21SEP16Z #1-179 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



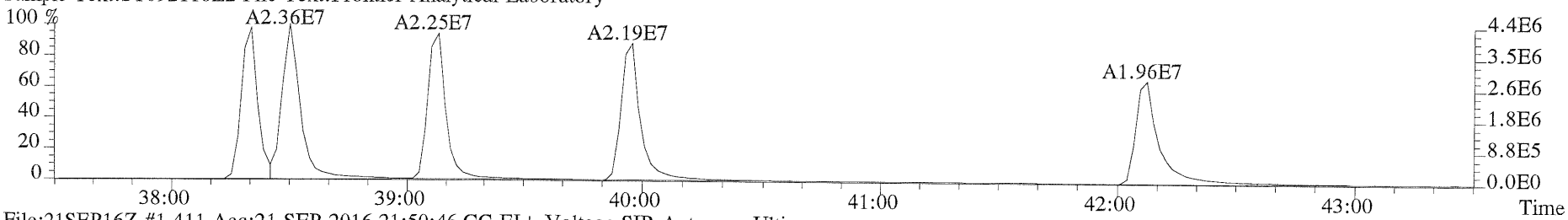
File:21SEP16Z #1-411 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



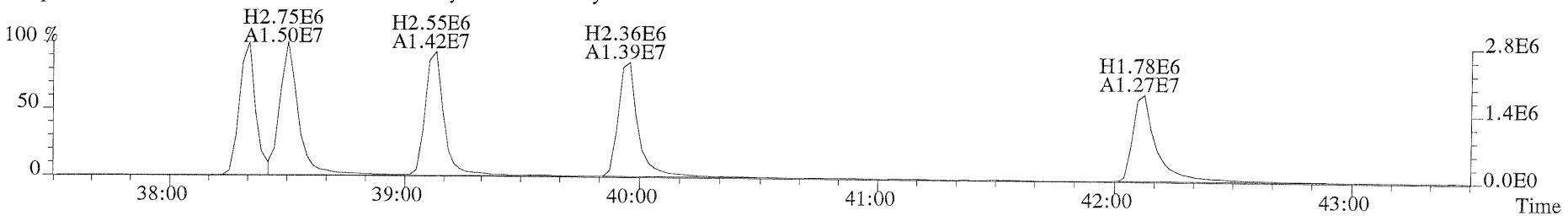
File:21SEP16Z #1-411 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



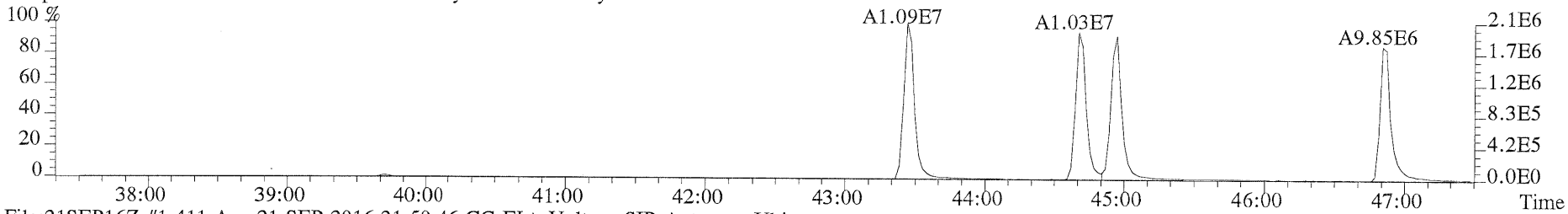
File:21SEP16Z #1-411 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



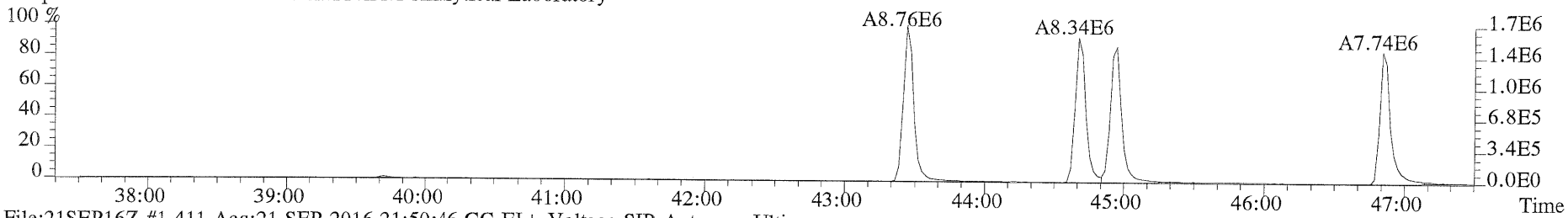
File:21SEP16Z #1-411 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



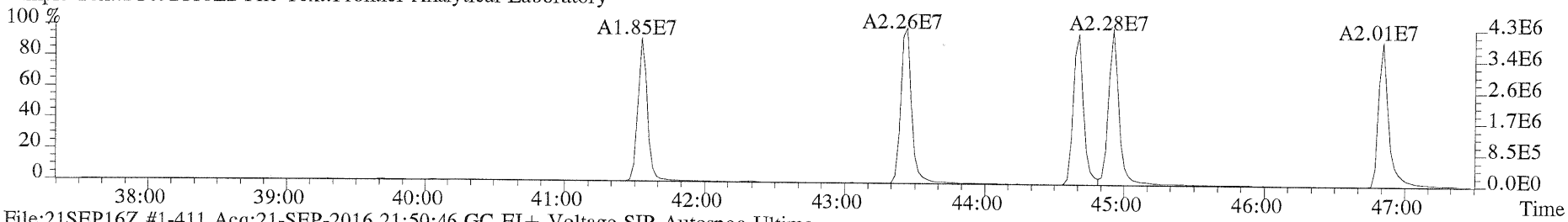
File:21SEP16Z #1-411 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



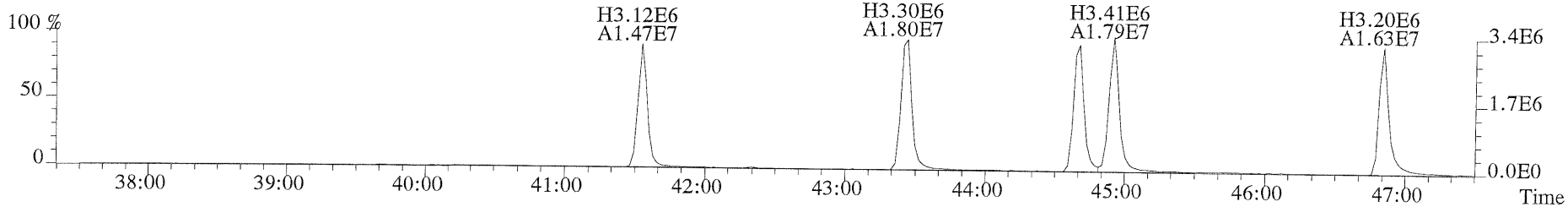
File:21SEP16Z #1-411 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



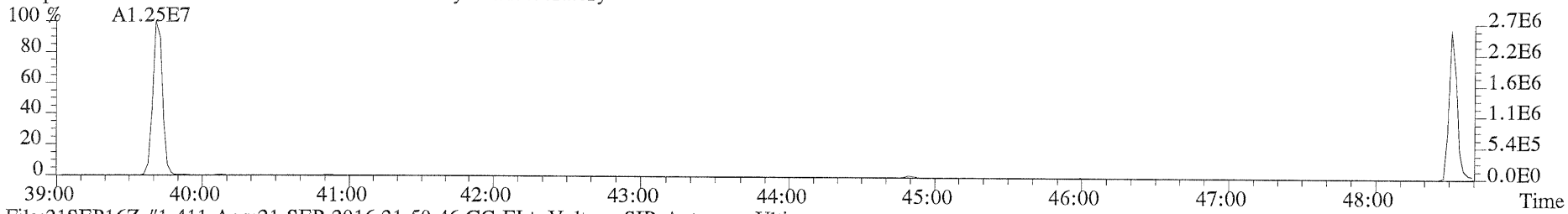
File:21SEP16Z #1-411 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



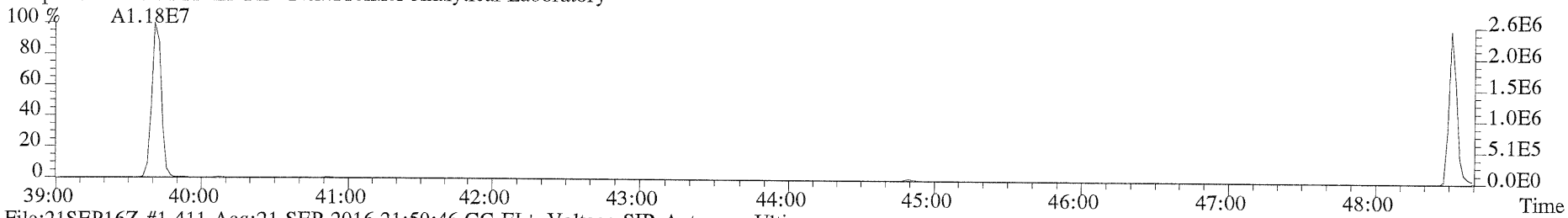
File:21SEP16Z #1-411 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



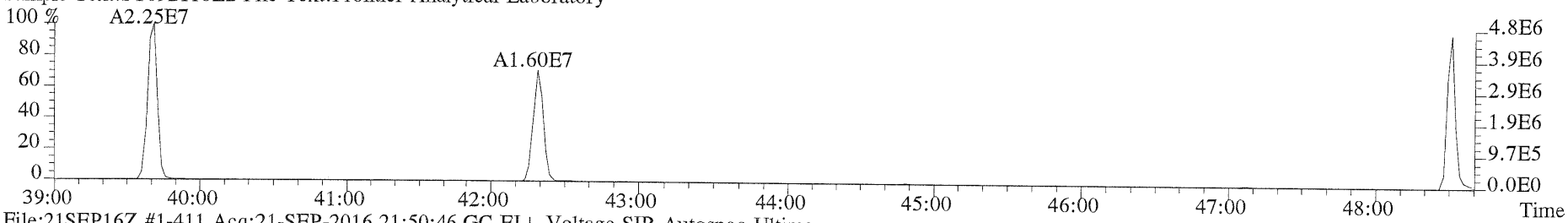
File:21SEP16Z #1-411 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



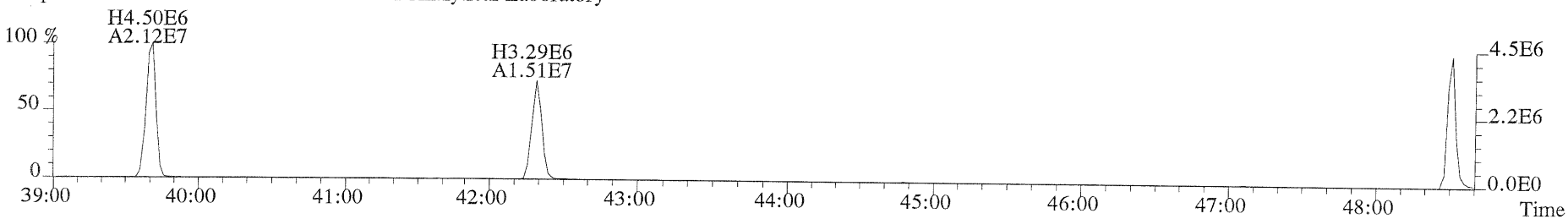
File:21SEP16Z #1-411 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



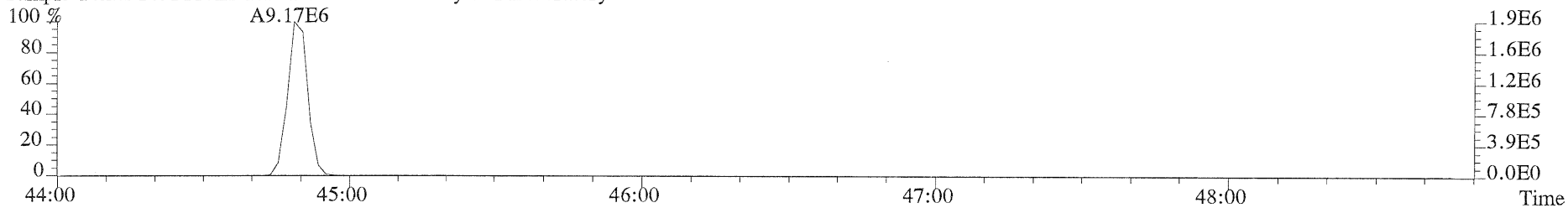
File:21SEP16Z #1-411 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



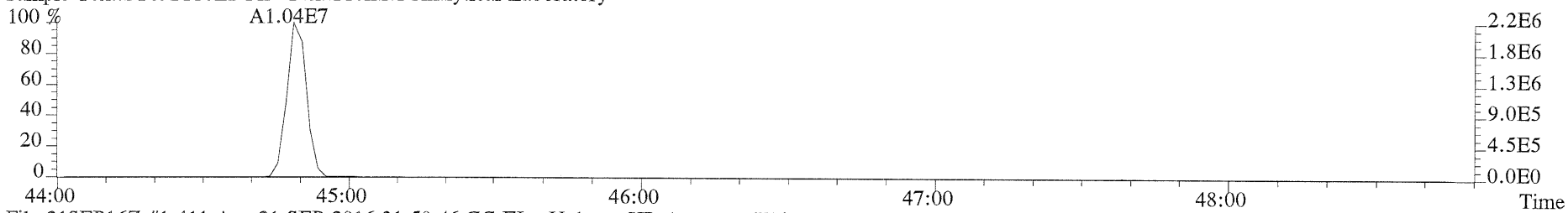
File:21SEP16Z #1-411 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



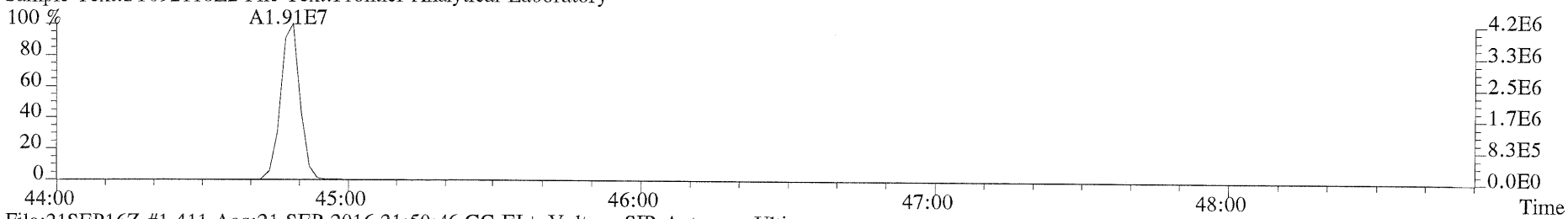
File:21SEP16Z #1-411 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



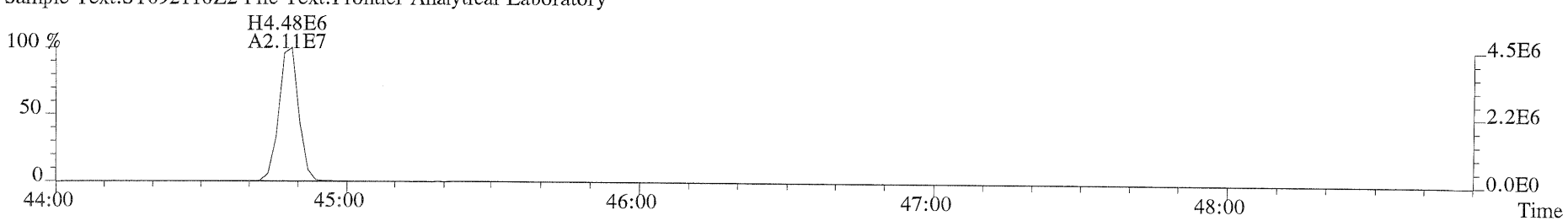
File:21SEP16Z #1-411 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



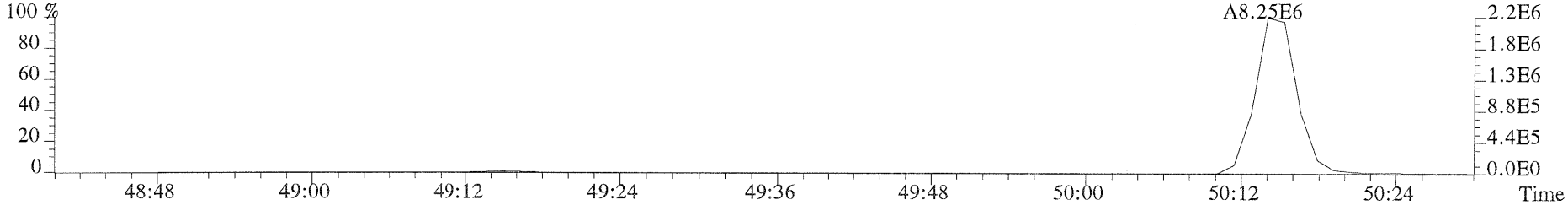
File:21SEP16Z #1-411 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



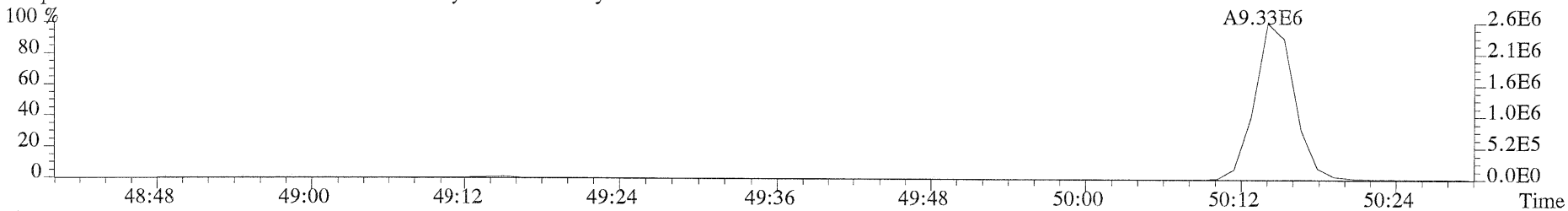
File:21SEP16Z #1-411 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



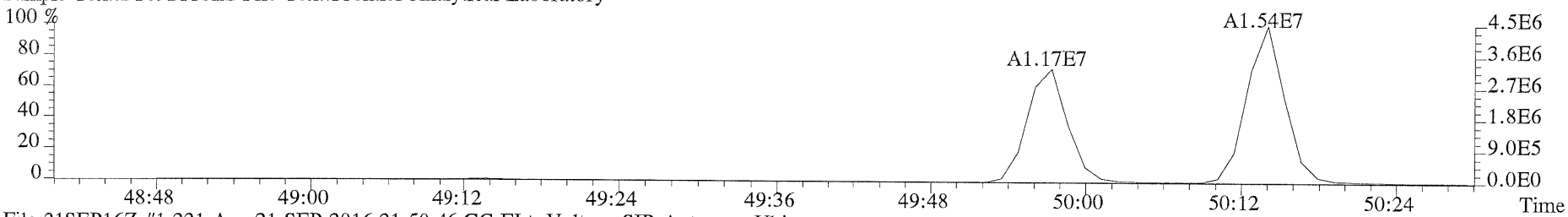
File:21SEP16Z #1-221 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



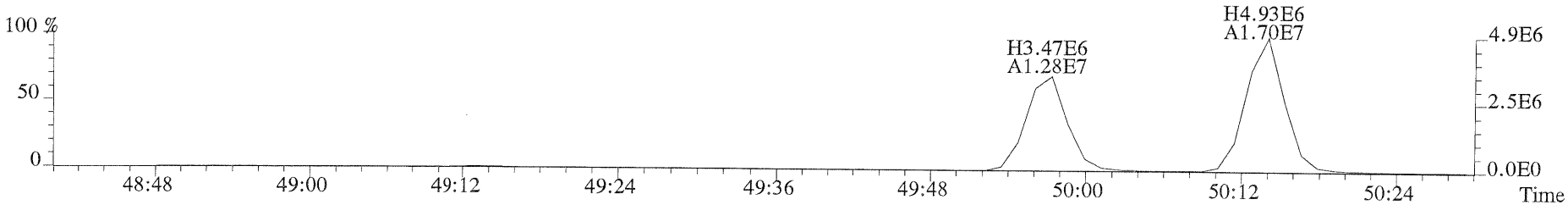
File:21SEP16Z #1-221 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



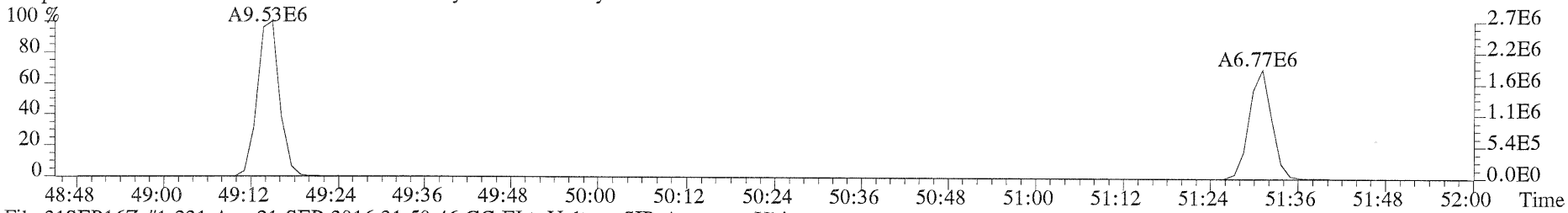
File:21SEP16Z #1-221 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



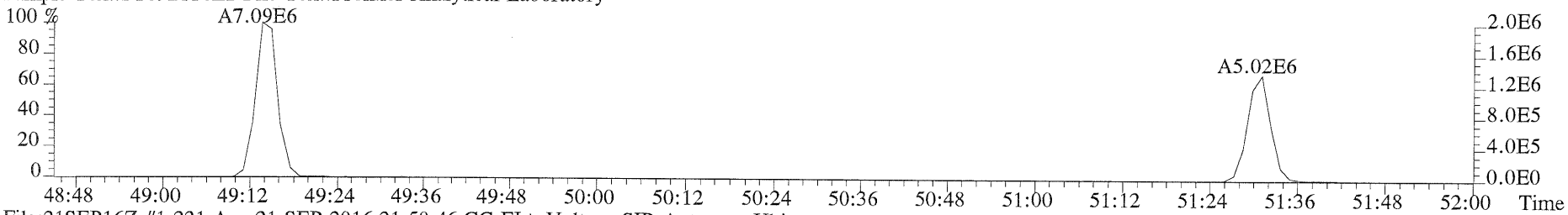
File:21SEP16Z #1-221 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



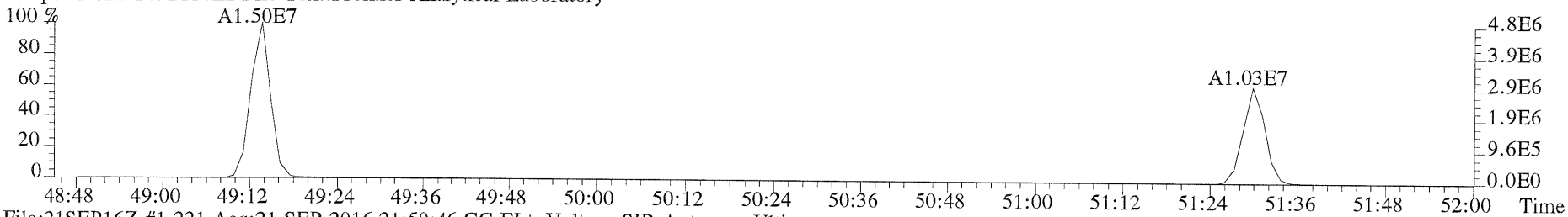
File:21SEP16Z #1-221 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



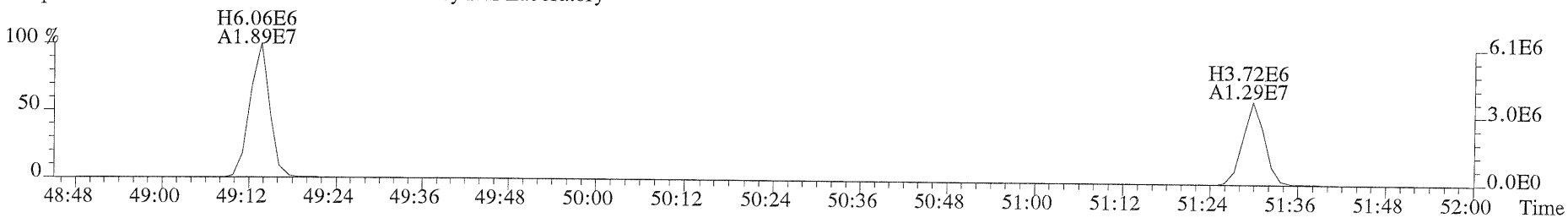
File:21SEP16Z #1-221 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



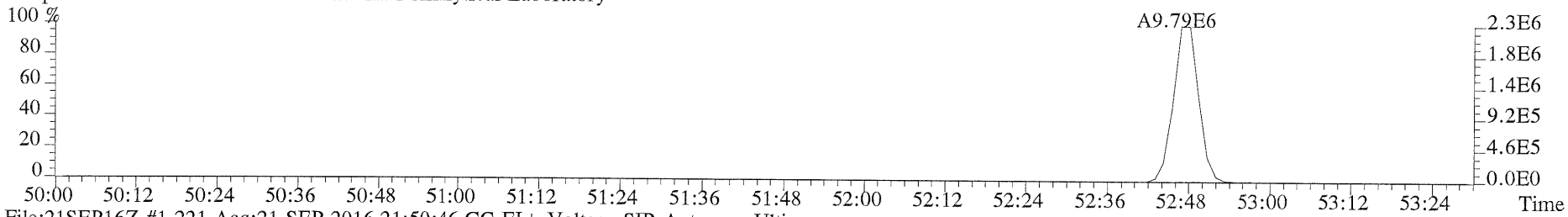
File:21SEP16Z #1-221 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



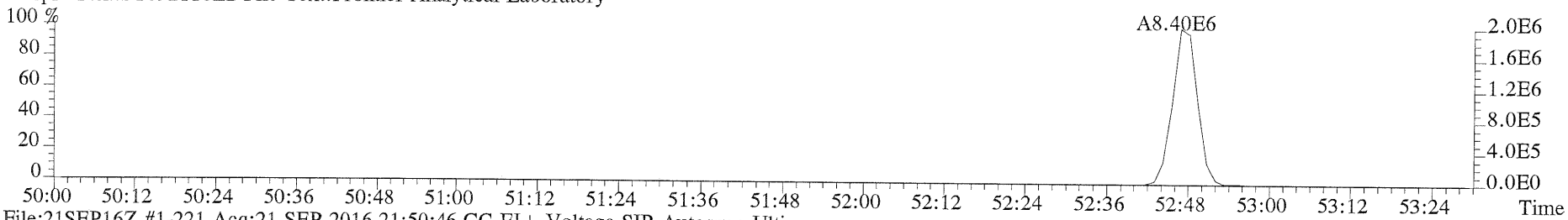
File:21SEP16Z #1-221 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



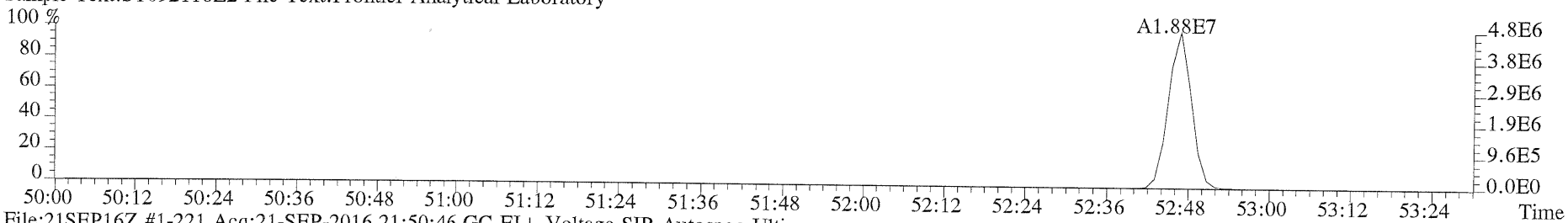
File:21SEP16Z #1-221 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



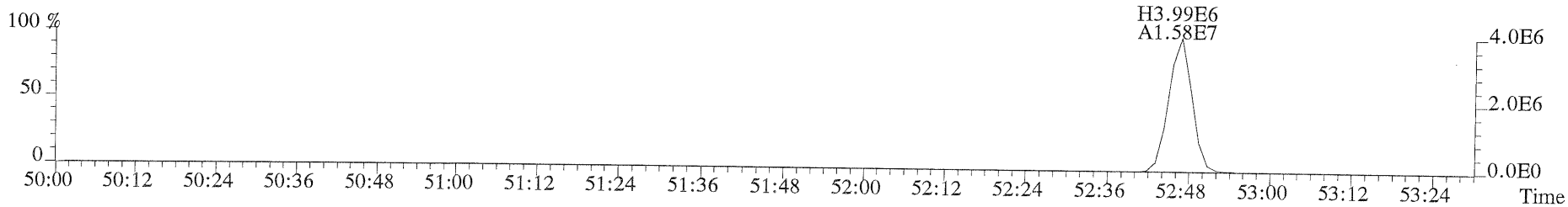
File:21SEP16Z #1-221 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory



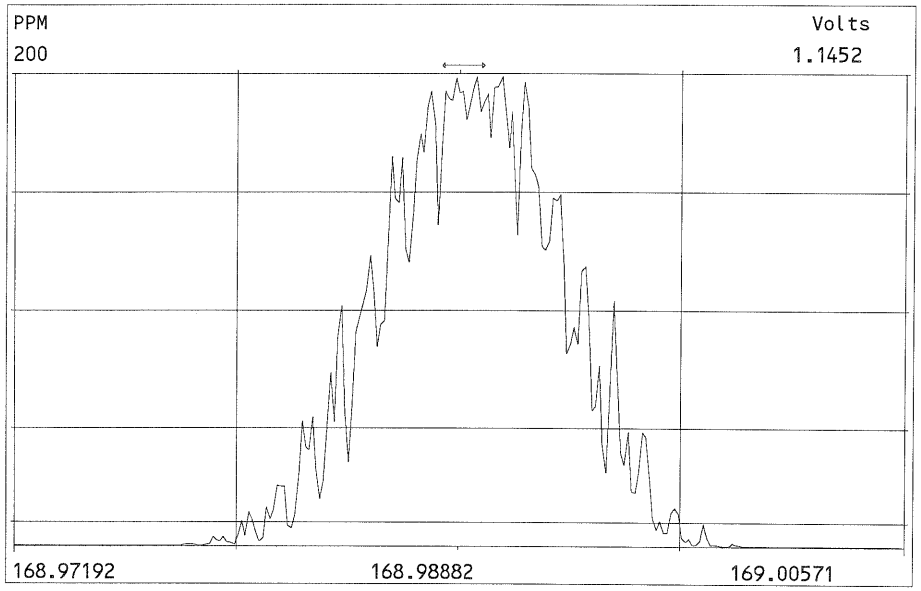
File:21SEP16Z #1-221 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory

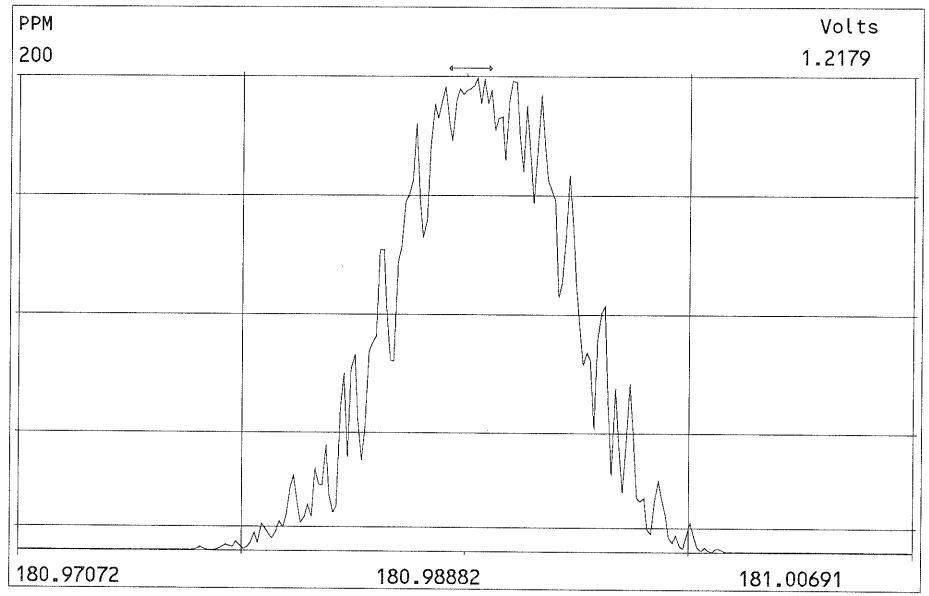


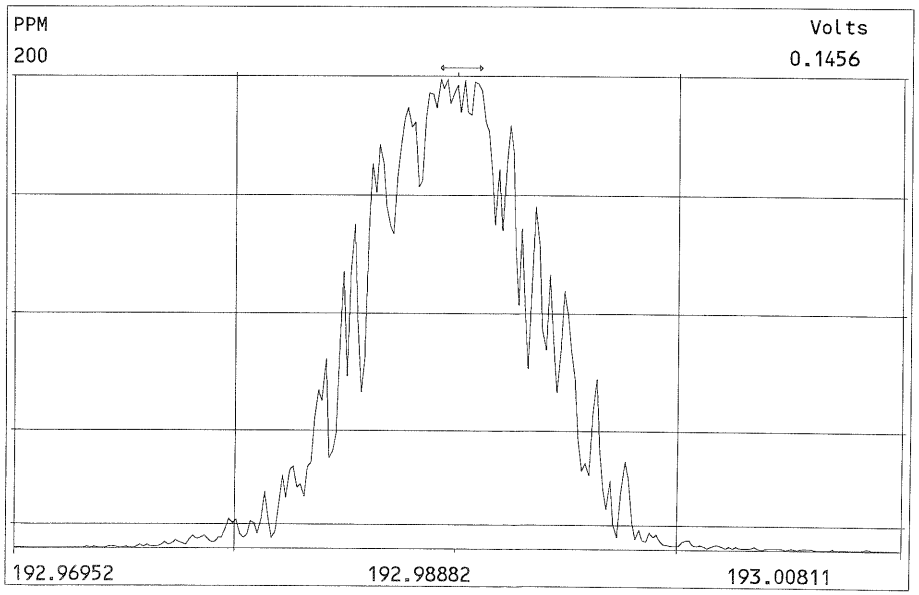
File:21SEP16Z #1-221 Acq:21-SEP-2016 21:50:46 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092116Z2 File Text:Frontier Analytical Laboratory

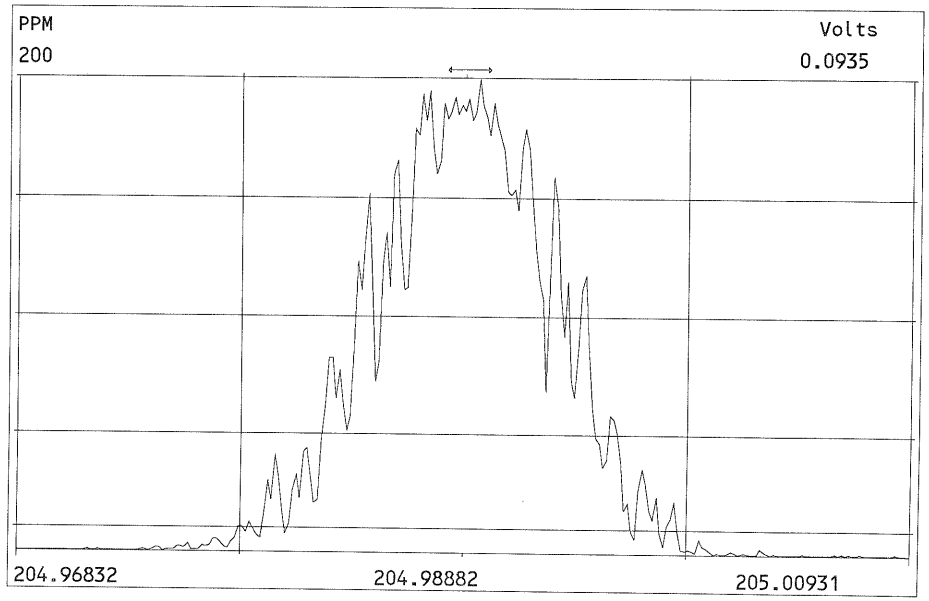


Peak Locate Examination:21-SEP-2016:22:50 File:21SEP16Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

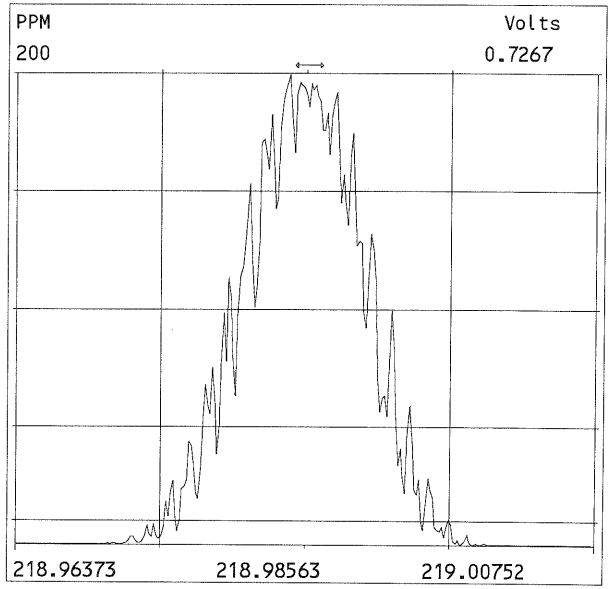


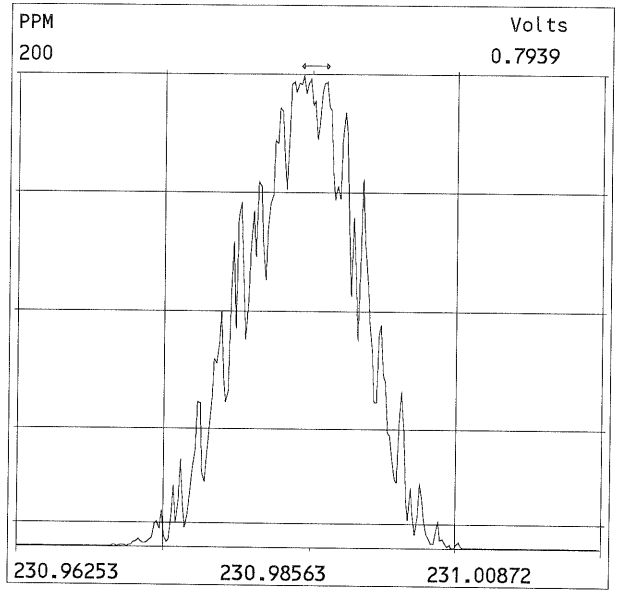


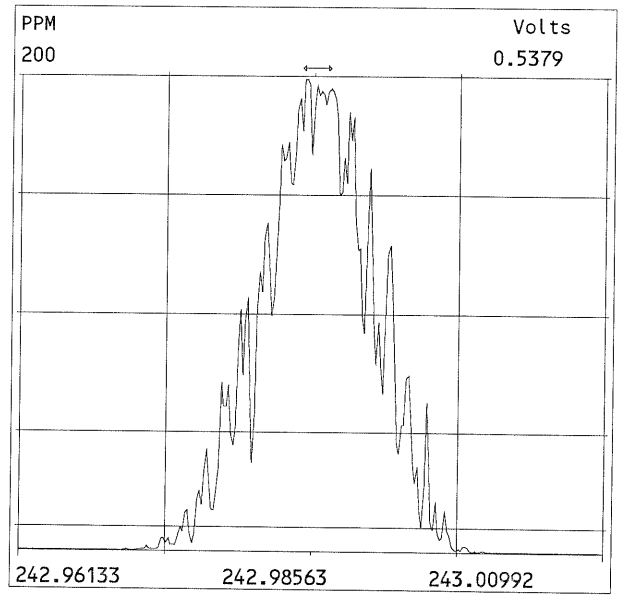


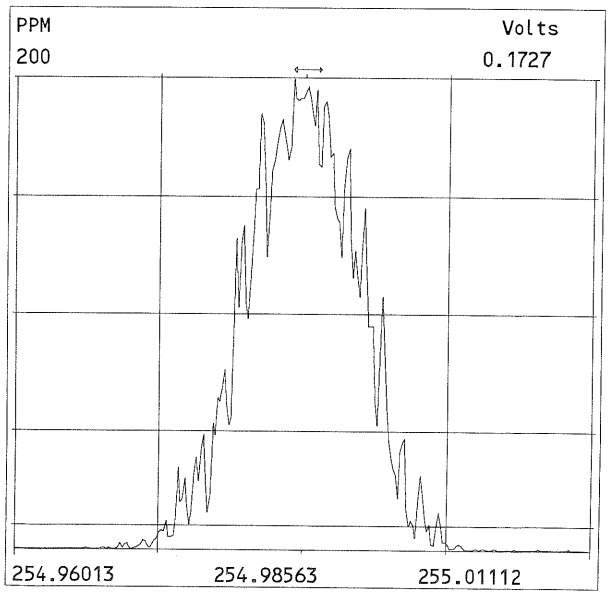


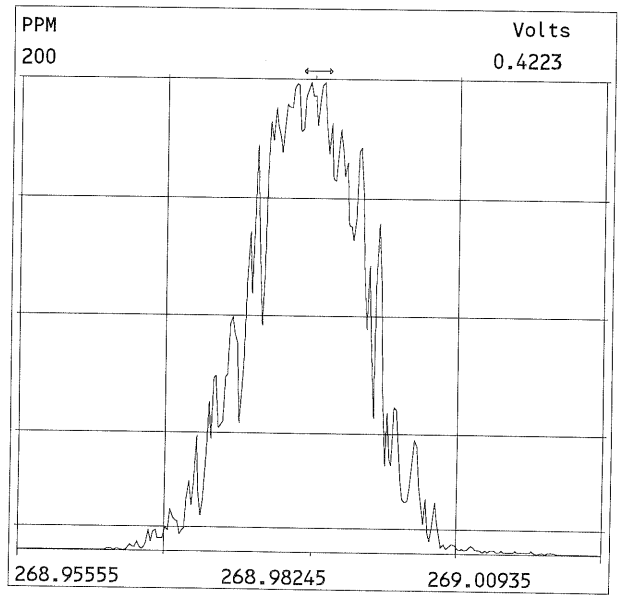
Peak Locate Examination:21-SEP-2016:22:51 File:21SEP16Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

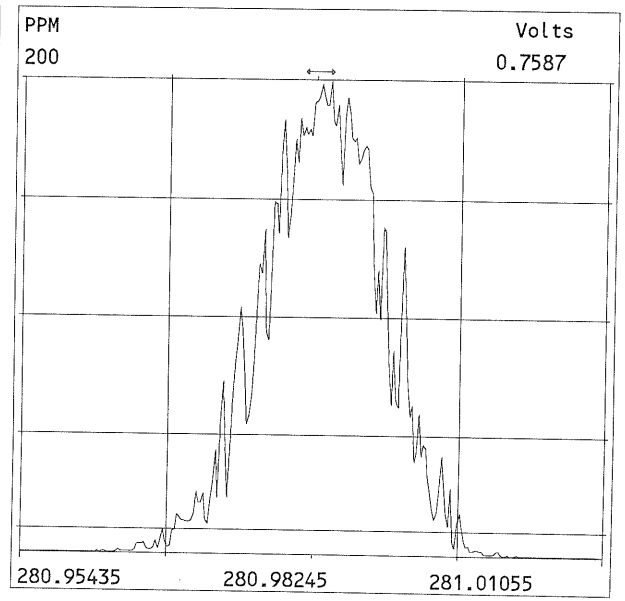




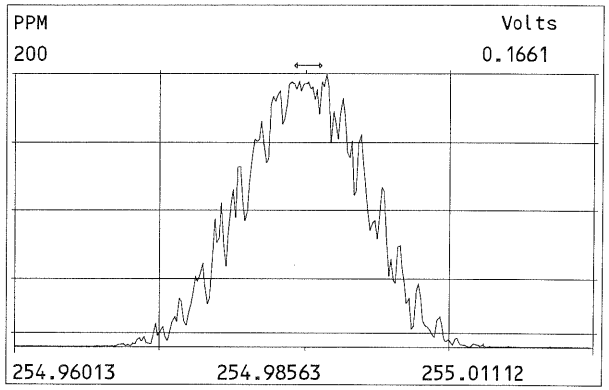


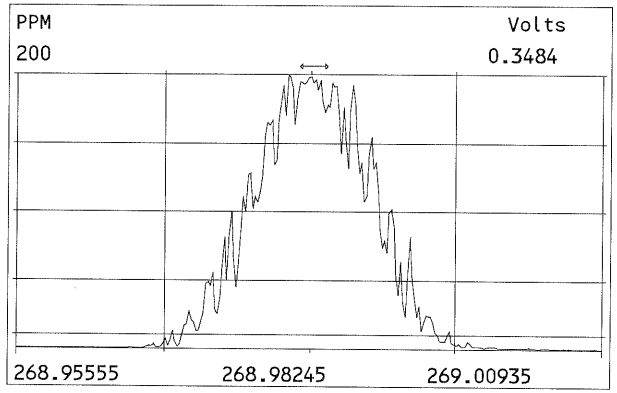


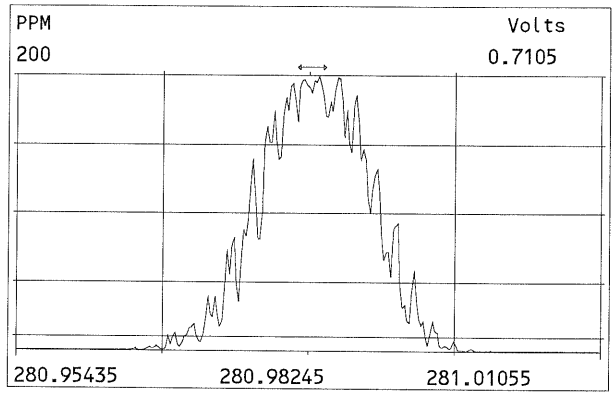


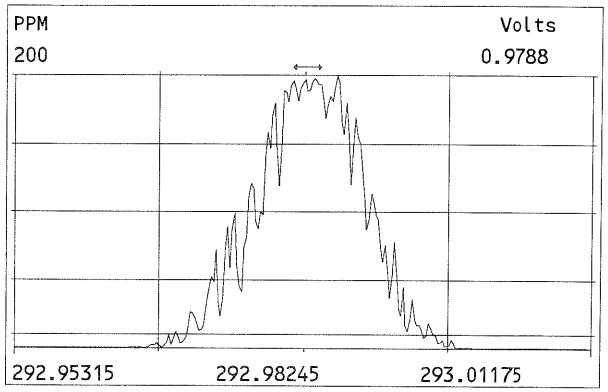


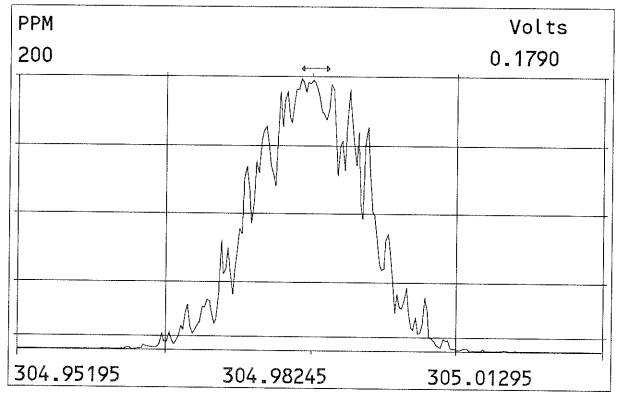
Peak Locate Examination:21-SEP-2016:22:51 File:21SEP16Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

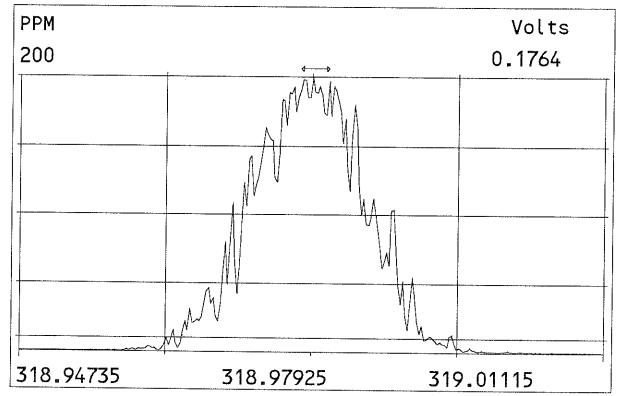


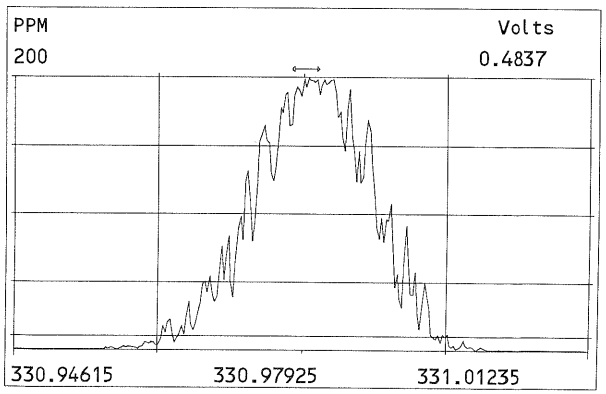


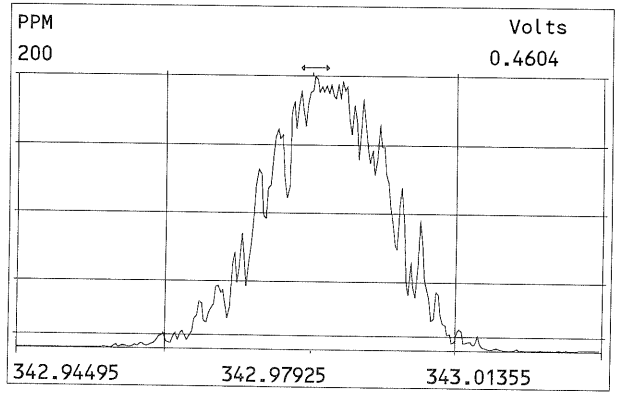




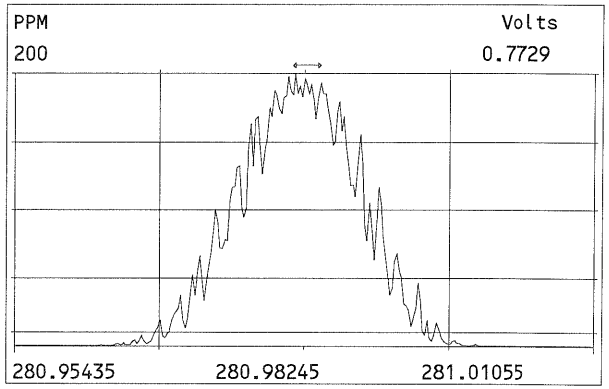


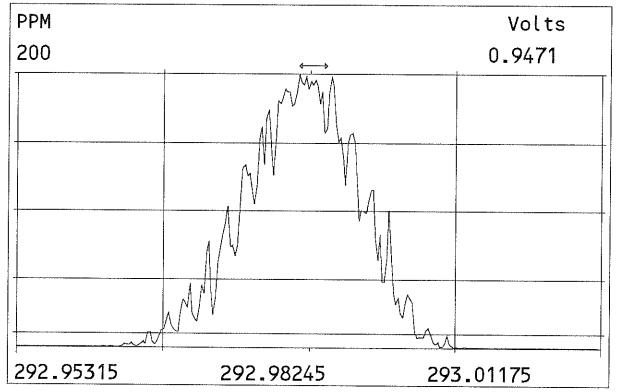


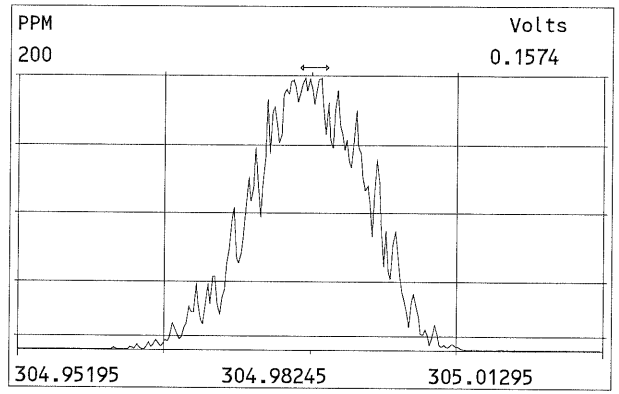


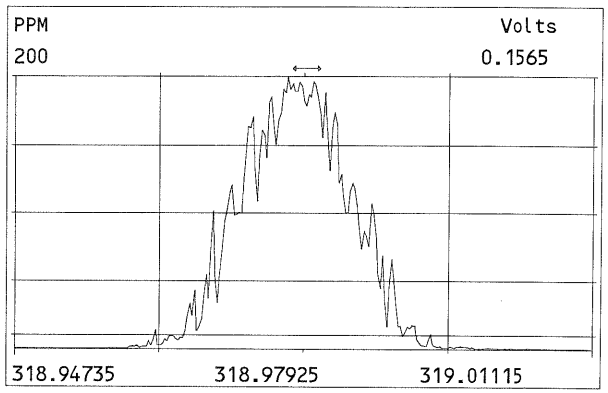


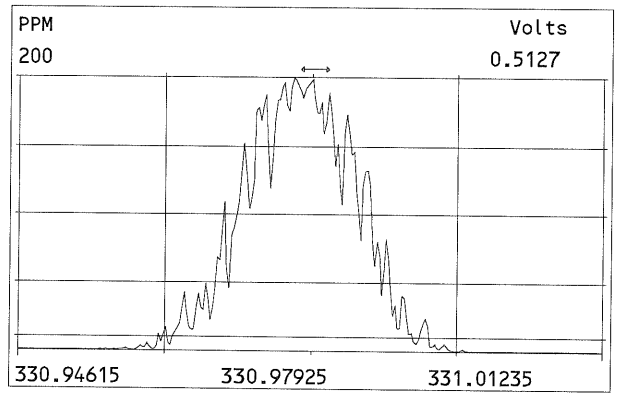
Peak Locate Examination:21-SEP-2016:22:51 File:21SEP16Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

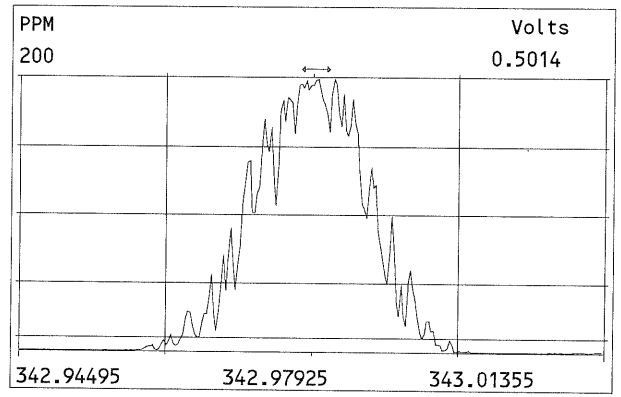


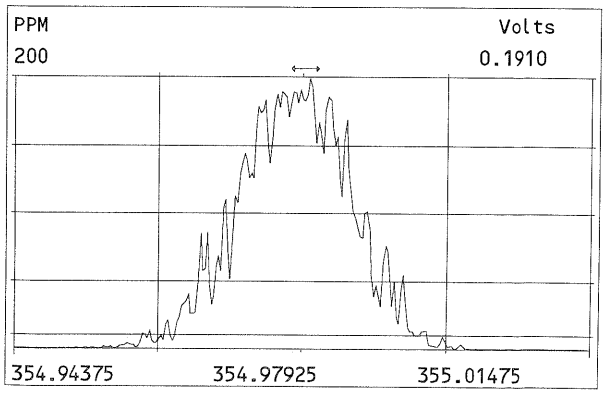


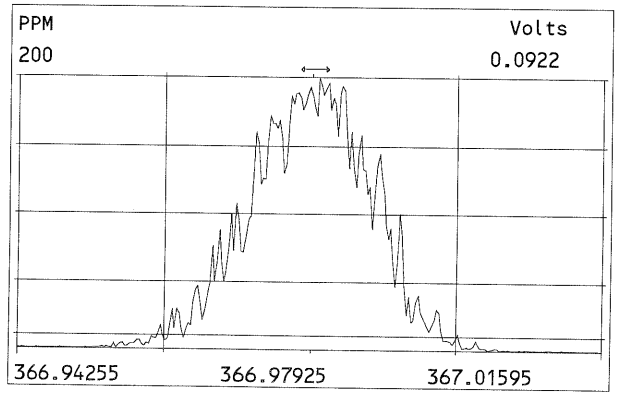


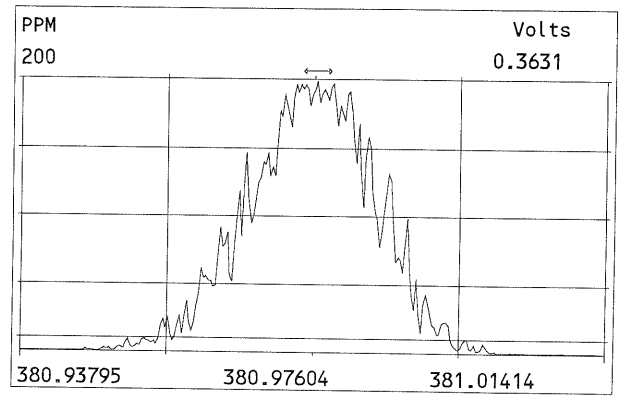




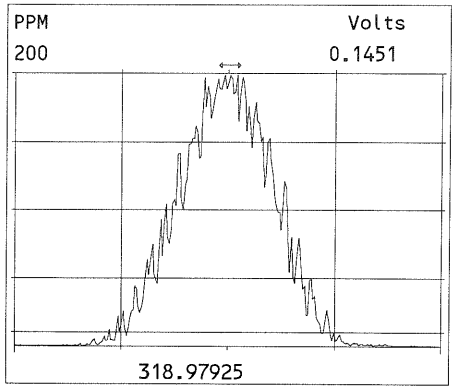


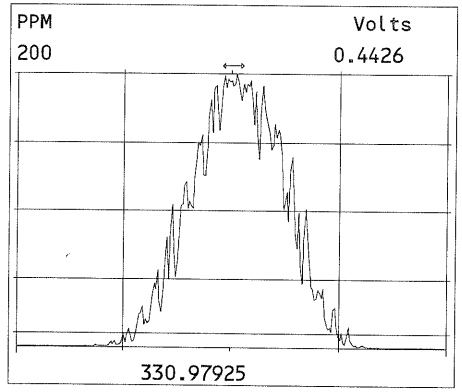


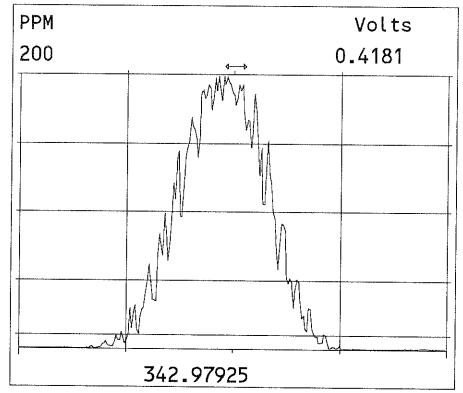


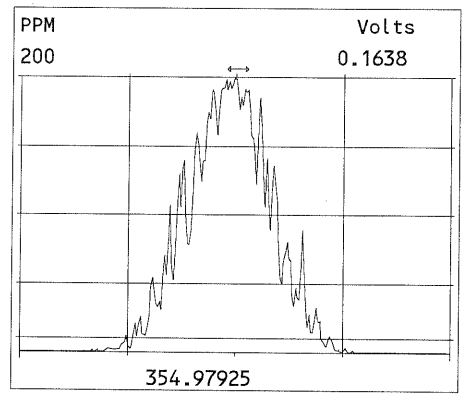


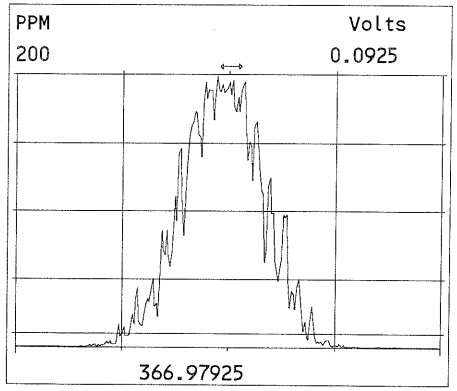
Peak Locate Examination:21-SEP-2016:22:52 File:21SEP16Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

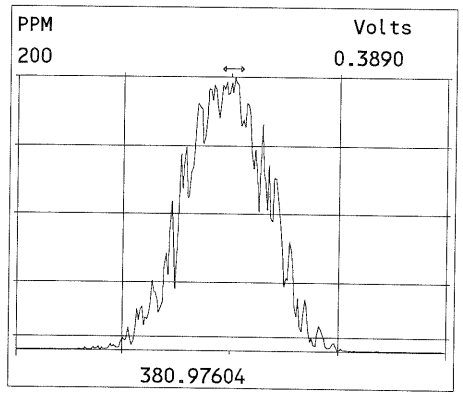


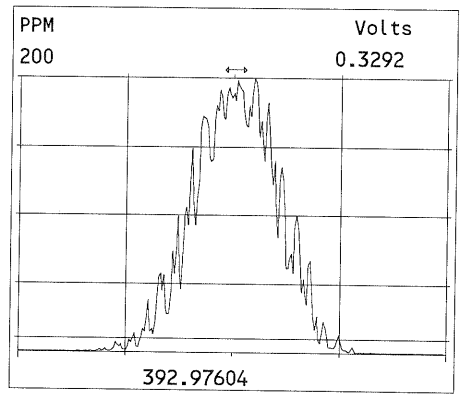


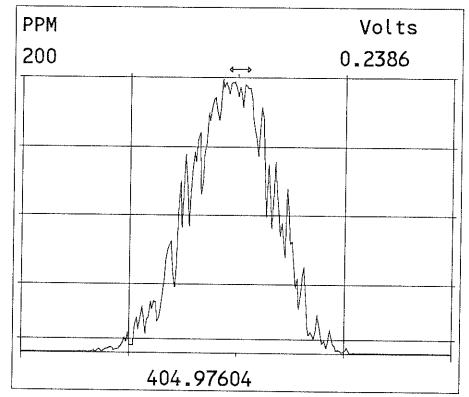


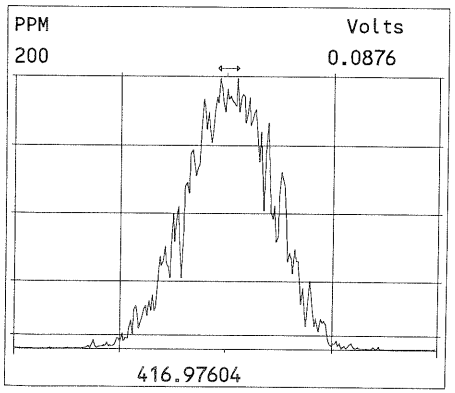


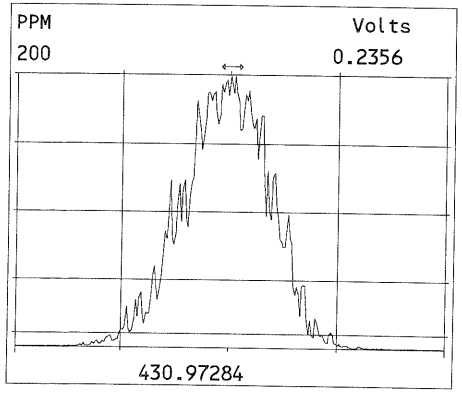


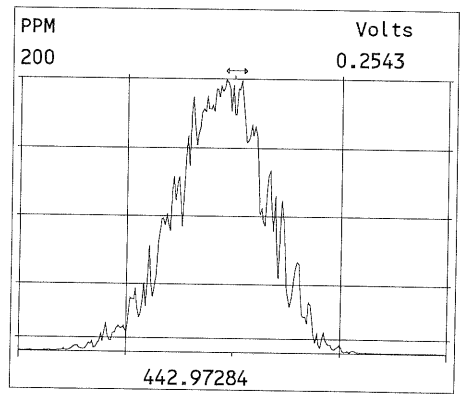
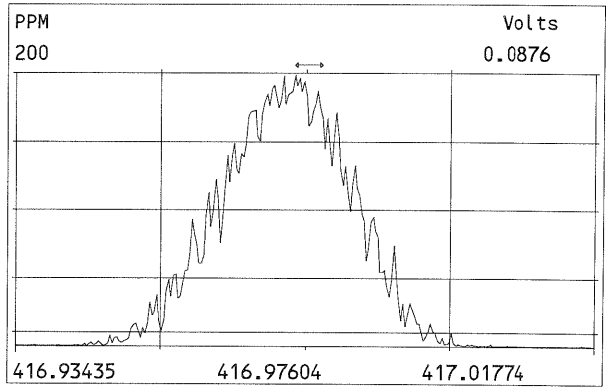
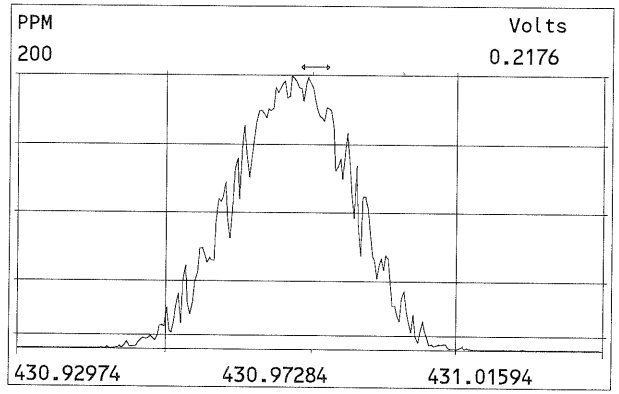
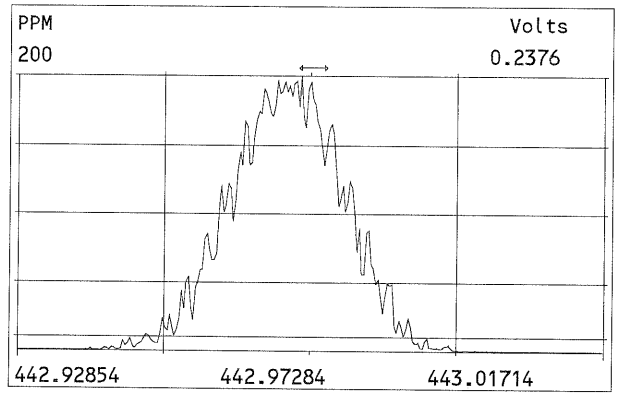
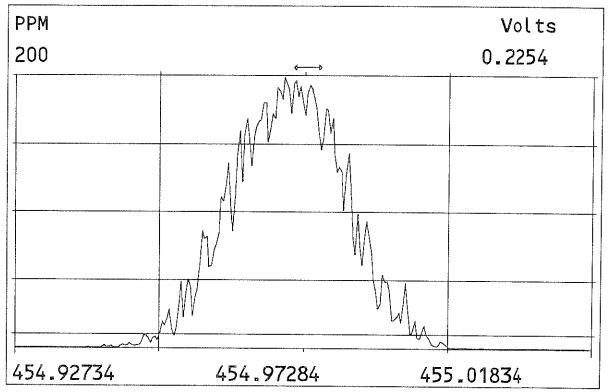
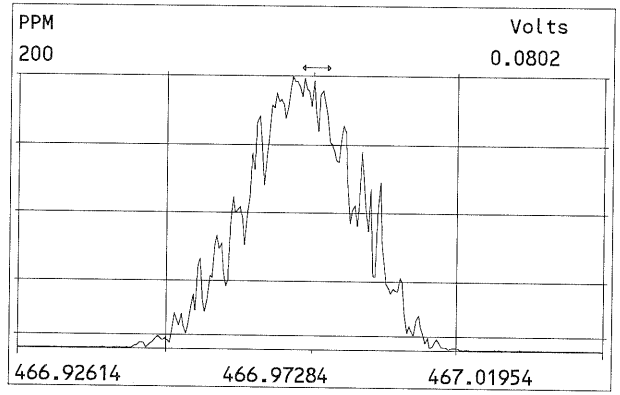
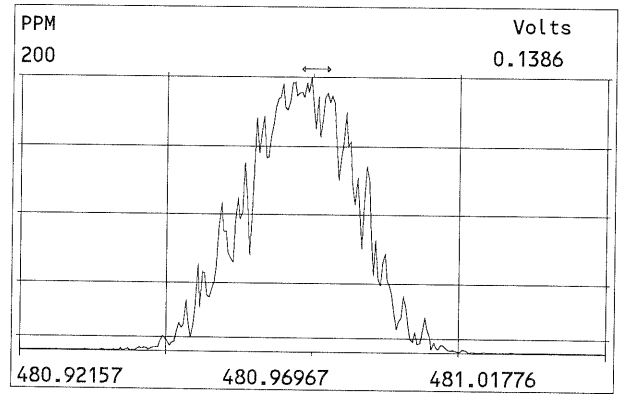
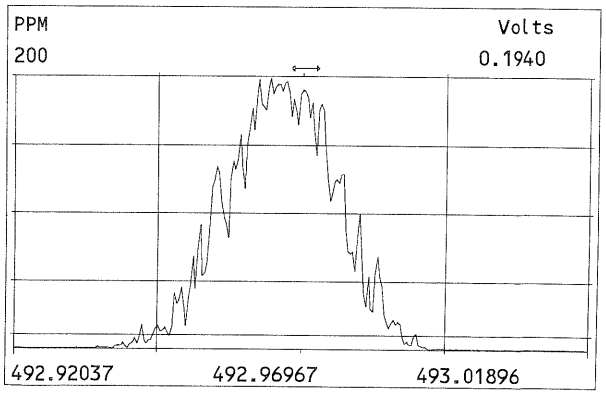
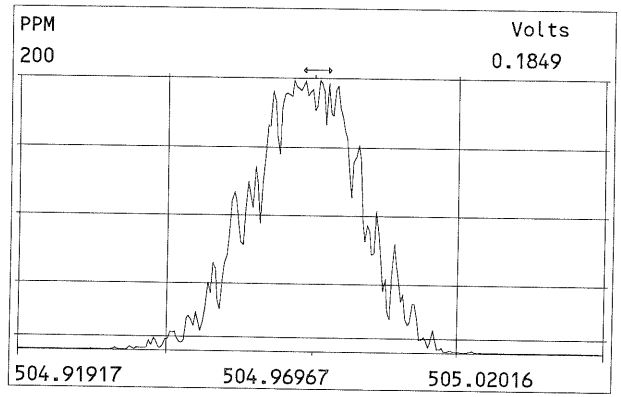
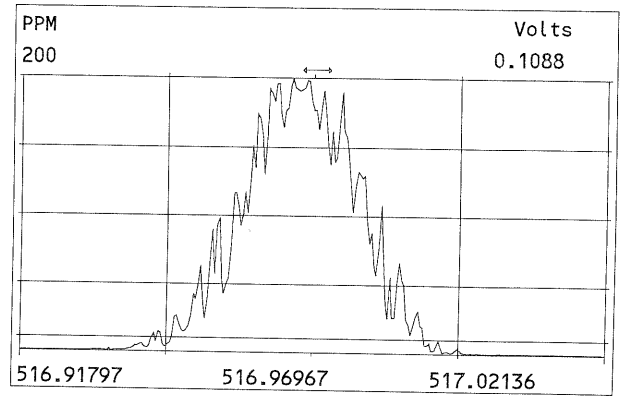












Peak Locate Examination:21-SEP-2016:22:53 File:21SEP16Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK