January 12, 2017

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

Dear: Dr. Heavner,

The following results are associated with Frontier Analytical Laboratory project **10322**. These results correspond to your **Lower Duwamish Waterway** project. Three SPME/Hexane samples were received on 12/08/2016 in good condition. These SPME/hexane samples were 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 twenty-two days was provided for this project **10322**.

The following Level IV report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section, and an Instrument Raw Data section. The Analytical Data section contains our sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and a sample photo. The Laboratory Raw Data section contains our project request sheet, an extraction bench sheet and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms with chromatograms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms and chromatograms for each point of the initial calibration curve as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms and chromatograms for all daily calibration standards, beginning calibration, and ending calibration injections associated with the samples and QC. The enclosed results and Electronic Data Deliverable (EDD) are specifically for the samples referenced in this report only. These results shall not be reproduced except in full. Frontier Analytical Laboratory's State of Oregon NELAP certificate number is **4041**, our State of California ELAP certificate number is **2934**, and our State of Washington certificate number is **C844**. This report and the associated electronic data deliverable have been emailed to you. A hardcopy will not be sent to you unless specifically requested.

If you have any questions regarding project **10322**, please feel free to contact me at 916-934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Daniel P. Vickers

Daniel P. Vickers
Vice President

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **10322**

Received on: **12/08/2016** Project Due: **01/03/2017** Storage: **R3**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
10322-001-SA	0	Lower Duwamish Waterway	LDW-BA-SU-S010-TB-EXSITU1	EPA 1668 PCB	Solvent	12/06/2016	03:15 pm	12/06/2017
10322-002-SA	0	Lower Duwamish Waterway	LDW-BA-SU-S010-TB-EXSITU2	EPA 1668 PCB	Solvent	12/06/2016	03:28 pm	12/06/2017
10322-003-SA	0	Lower Duwamish Waterway	LDW-BA-SU-S010-TB-EXSITU3	EPA 1668 PCB	Solvent	12/06/2016	03:52 pm	12/06/2017

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10322-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X3955

Date Extracted: 12-15-2016
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-1-6-17
GC Column: DB1
Units: pg/sample

Acquired: 01-06-2017
Total Conc: 0.0

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	8.18			PCB-51	ND	7.49		
PCB-2	ND	9.24			PCB-52	ND	6.54	C	69
PCB-3	ND	9.32			PCB-53	ND	7.71		
PCB-4	ND	13.4			PCB-54	ND	5.92		
PCB-5	ND	11.3			PCB-55	ND	5.69		
PCB-6	ND	10.7			PCB-56	ND	7.28	C	60
PCB-7	ND	10.7			PCB-57	ND	5.85		
PCB-8	ND	10.9			PCB-58	ND	5.69		
PCB-9	ND	11.1			PCB-59	-	-	C042	42
PCB-10	ND	12.1			PCB-60	-	-	C056	56
PCB-11	ND	11.4			PCB-61	ND	5.30	C	70
PCB-12	ND	11.7			PCB-62	ND	6.04		
PCB-13	ND	11.5			PCB-63	ND	5.68		
PCB-14	ND	11.2			PCB-64	-	-	C041	41/71/72
PCB-15	ND	10.8			PCB-65	ND	6.25		
PCB-16	ND	8.17			PCB-66	ND	5.61	C	76
PCB-17	ND	8.08			PCB-67	ND	5.92		
PCB-18	ND	8.74			PCB-68	ND	5.50		
PCB-19	ND	8.79			PCB-69	-	-	C052	52
PCB-20	ND	7.05	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	7.02			PCB-72	-	-	C041	41/64/71
PCB-23	ND	7.02			PCB-73	ND	5.39		
PCB-24	ND	6.10			PCB-74	ND	5.53		
PCB-25	ND	6.20			PCB-75	-	-	C048	48
PCB-26	ND	7.17			PCB-76	-	-	C066	66
PCB-27	ND	6.29			PCB-77	ND	7.37		
PCB-28	ND	6.13			PCB-78	ND	7.37		
PCB-29	ND	6.92			PCB-79	ND	7.17		
PCB-30	ND	6.14			PCB-80	ND	5.03		
PCB-31	ND	7.11			PCB-81	ND	7.00		
PCB-32	ND	6.45			PCB-82	ND	13.0		
PCB-33	-	-	C020	20/21	PCB-83	ND	10.1	C	112
PCB-34	ND	7.96			PCB-84	ND	11.2	C	92
PCB-35	ND	7.70			PCB-85	ND	9.27	C	116
PCB-36	ND	7.27			PCB-86	ND	11.0		
PCB-37	ND	6.80			PCB-87	ND	8.72	C	117/125
PCB-38	ND	7.26			PCB-88	ND	8.11	C	91
PCB-39	ND	7.32			PCB-89	ND	11.6		
PCB-40	ND	10.1			PCB-90	ND	10.0	C	101
PCB-41	ND	5.86	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	6.37	C	59	PCB-92	-	-	C084	84
PCB-43	ND	7.82	C	49	PCB-93	ND	9.60		
PCB-44	ND	8.51			PCB-94	ND	8.99		
PCB-45	ND	8.65			PCB-95	ND	9.58		
PCB-46	ND	9.10			PCB-96	ND	6.49		
PCB-47	ND	6.17			PCB-97	ND	9.16		
PCB-48	ND	6.27	C	75	PCB-98	ND	6.90	C	102
PCB-49	-	-	C043	43	PCB-99	ND	8.82		
PCB-50	ND	7.66			PCB-100	ND	7.64		

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EPA Method 1668
PCBs

FAL ID: 10322-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X3955

Date Extracted: 12-15-2016
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-1-6-17
GC Column: DB1
Units: pg/sample

Acquired: 01-06-2017

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	10.3		
PCB-102	-	-	C098	98	PCB-152	ND	6.46		
PCB-103	ND	7.52			PCB-153	ND	8.37		
PCB-104	ND	5.95			PCB-154	ND	7.21		
PCB-105	ND	6.61			PCB-155	ND	5.97		
PCB-106	ND	7.26	C	118	PCB-156	ND	7.64		
PCB-107	ND	6.64	C	108	PCB-157	ND	8.49		
PCB-108	-	-	C107	107	PCB-158	ND	7.64	C	160
PCB-109	ND	8.38			PCB-159	ND	7.48		
PCB-110	ND	7.71			PCB-160	-	-	C158	158
PCB-111	ND	7.11	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	9.06			PCB-163	-	-	C138	138/164
PCB-114	ND	5.97			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	8.04		
PCB-117	-	-	C087	87/125	PCB-167	ND	8.40		
PCB-118	-	-	C106	106	PCB-168	ND	7.88		
PCB-119	ND	7.68			PCB-169	ND	7.80		
PCB-120	ND	7.32			PCB-170	ND	9.58		
PCB-121	ND	6.62			PCB-171	ND	8.62		
PCB-122	ND	6.65			PCB-172	ND	8.93		
PCB-123	ND	5.58			PCB-173	ND	9.34		
PCB-124	ND	6.49			PCB-174	ND	8.61		
PCB-125	-	-	C087	87/117	PCB-175	ND	8.17		
PCB-126	ND	7.43			PCB-176	ND	6.30		
PCB-127	ND	6.91			PCB-177	ND	8.96		
PCB-128	ND	9.19	C	162	PCB-178	ND	8.68		
PCB-129	ND	12.3			PCB-179	ND	6.12		
PCB-130	ND	10.4			PCB-180	ND	6.94		
PCB-131	ND	10.3	C	133	PCB-181	ND	8.03		
PCB-132	ND	9.36	C	161	PCB-182	ND	7.72	C	187
PCB-133	-	-	C131	131	PCB-183	ND	7.76		
PCB-134	ND	10.4	C	143	PCB-184	ND	5.90		
PCB-135	ND	10.3			PCB-185	ND	8.38		
PCB-136	ND	6.25			PCB-186	ND	6.39		
PCB-137	ND	11.4			PCB-187	-	-	C182	182
PCB-138	ND	7.67	C	163/164	PCB-188	ND	6.33		
PCB-139	ND	9.48	C	149	PCB-189	ND	6.40		
PCB-140	ND	9.61			PCB-190	ND	6.89		
PCB-141	ND	10.0			PCB-191	ND	6.60		
PCB-142	ND	11.5			PCB-192	ND	6.93		
PCB-143	-	-	C134	134	PCB-193	ND	6.30		
PCB-144	ND	10.2			PCB-194	ND	9.17		
PCB-145	ND	6.48			PCB-195	ND	9.81		
PCB-146	ND	8.58	C	165	PCB-196	ND	7.26	C	203
PCB-147	ND	9.32			PCB-197	ND	5.43		
PCB-148	ND	8.93			PCB-198	ND	7.91		
PCB-149	-	-	C139	139	PCB-199	ND	7.76		
PCB-150	ND	6.39			PCB-200	ND	5.75		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10322-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X3955

Date Extracted: 12-15-2016
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-1-6-17
GC Column: DB1
Units: pg/sample

Acquired: 01-06-2017

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	5.74		
PCB-202	ND	5.84		
PCB-203	-	-	C196	196
PCB-204	ND	5.56		
PCB-205	ND	7.13		
PCB-206	ND	6.93		
PCB-207	ND	4.93		
PCB-208	ND	4.20		
PCB-209	ND	4.96		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	106	5.00 - 145	
13C-PCB-3	105	5.00 - 145	
13C-PCB-4	103	5.00 - 145	
13C-PCB-15	98.9	5.00 - 145	
13C-PCB-19	103	5.00 - 145	
13C-PCB-37	100	5.00 - 145	
13C-PCB-54	103	5.00 - 145	
13C-PCB-77	100	10.0 - 145	
13C-PCB-81	98.9	10.0 - 145	
13C-PCB-104	104	10.0 - 145	
13C-PCB-105	100	10.0 - 145	
13C-PCB-114	103	10.0 - 145	
13C-PCB-118	105	10.0 - 145	
13C-PCB-123	102	10.0 - 145	
13C-PCB-126	100	10.0 - 145	
13C-PCB-155	108	10.0 - 145	
13C-PCB-156	99.4	10.0 - 145	
13C-PCB-157	103	10.0 - 145	
13C-PCB-167	102	10.0 - 145	
13C-PCB-169	97.0	10.0 - 145	
13C-PCB-188	103	10.0 - 145	
13C-PCB-189	102	10.0 - 145	
13C-PCB-202	108	10.0 - 145	
13C-PCB-205	102	10.0 - 145	
13C-PCB-206	105	10.0 - 145	
13C-PCB-208	110	10.0 - 145	
13C-PCB-209	106	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	102	5.00 - 145	
13C-PCB-111	98.8	10.0 - 145	
13C-PCB-178	97.5	10.0 - 145	

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

Analyst: _____

Date: 1/10/17

Reviewed By: _____

Date: 1/10/17

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EPA Method 1668
PCBs

FAL ID: 10322-001-OPR
Client ID: OPR
Matrix: Solvent
Batch No: X3955

Date Extracted: 12-15-2016
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-1-6-17
GC Column: DB1
Units: ng/ml

Acquired: 01-06-2017

Compound	% Recovery	QC Limits	Qual
PCB-1	105	60.0 - 135	
PCB-3	107	60.0 - 135	
PCB-4	99.4	60.0 - 135	
PCB-15	105	60.0 - 135	
PCB-19	105	60.0 - 135	
PCB-37	100	60.0 - 135	
PCB-54	106	60.0 - 135	
PCB-77	106	60.0 - 135	
PCB-81	103	60.0 - 135	
PCB-104	103	60.0 - 135	
PCB-105	99.4	60.0 - 135	
PCB-114	99.8	60.0 - 135	
PCB-118	111	60.0 - 135	
PCB-123	91.0	60.0 - 135	
PCB-126	98.4	60.0 - 135	
PCB-155	106	60.0 - 135	
PCB-156	101	60.0 - 135	
PCB-157	104	60.0 - 135	
PCB-167	108	60.0 - 135	
PCB-169	107	60.0 - 135	
PCB-188	109	60.0 - 135	
PCB-189	104	60.0 - 135	
PCB-202	112	60.0 - 135	
PCB-205	103	60.0 - 135	
PCB-206	104	60.0 - 135	
PCB-208	105	60.0 - 135	
PCB-209	103	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	110	15.0 - 145	
13C-PCB-3	107	15.0 - 145	
13C-PCB-4	106	15.0 - 145	
13C-PCB-15	101	15.0 - 145	
13C-PCB-19	107	15.0 - 145	
13C-PCB-37	101	15.0 - 145	
13C-PCB-54	108	15.0 - 145	
13C-PCB-77	99.2	40.0 - 145	
13C-PCB-81	98.9	40.0 - 145	
13C-PCB-104	107	40.0 - 145	
13C-PCB-105	103	40.0 - 145	
13C-PCB-114	103	40.0 - 145	
13C-PCB-118	106	40.0 - 145	
13C-PCB-123	106	40.0 - 145	
13C-PCB-126	100	40.0 - 145	
13C-PCB-155	108	40.0 - 145	
13C-PCB-156	101	40.0 - 145	
13C-PCB-157	102	40.0 - 145	
13C-PCB-167	103	40.0 - 145	
13C-PCB-169	98.2	40.0 - 145	
13C-PCB-188	105	40.0 - 145	
13C-PCB-189	102	40.0 - 145	
13C-PCB-202	110	40.0 - 145	
13C-PCB-205	104	40.0 - 145	
13C-PCB-206	105	40.0 - 145	
13C-PCB-208	108	40.0 - 145	
13C-PCB-209	108	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	105	15.0 - 145	
13C-PCB-111	98.6	40.0 - 145	
13C-PCB-178	97.1	40.0 - 145	

Analyst: _____

Date: 1/10/2017

Reviewed By: _____

Date: 1/10/2017

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EPA Method 1668
PCBs

FAL ID: 10322-001-SA
Client ID: LDW-BA-SU-S010-TB-EXSITU1
Matrix: Solvent
Batch No: X3955

Date Extracted: 12-15-2016
Date Received: 12-08-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-1-6-17
GC Column: DB1
Units: pg/sample

Acquired: 01-06-2017
Total Conc: 33900

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	6.69			PCB-51	ND	6.22		
PCB-2	ND	7.43			PCB-52	ND	5.43	C	69
PCB-3	ND	7.39			PCB-53	ND	6.41		
PCB-4	ND	11.8			PCB-54	ND	4.92		
PCB-5	ND	10.0			PCB-55	30.0	-		
PCB-6	ND	9.47			PCB-56	ND	6.15	C	60
PCB-7	ND	9.46			PCB-57	ND	4.86		
PCB-8	ND	9.66			PCB-58	ND	4.73		
PCB-9	ND	9.80			PCB-59	-	-	C042	42
PCB-10	ND	10.7			PCB-60	-	-	C056	56
PCB-11	ND	10.1			PCB-61	ND	4.41	C	70
PCB-12	ND	10.4			PCB-62	ND	5.02		
PCB-13	ND	10.1			PCB-63	ND	4.72		
PCB-14	86.4	-			PCB-64	-	-	C041	41/71/72
PCB-15	ND	9.56			PCB-65	ND	5.19		
PCB-16	ND	6.50			PCB-66	ND	4.66	C	76
PCB-17	ND	6.43			PCB-67	ND	4.92		
PCB-18	ND	6.95			PCB-68	ND	4.56		
PCB-19	ND	6.99			PCB-69	-	-	C052	52
PCB-20	ND	6.96	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	6.93			PCB-72	-	-	C041	41/64/71
PCB-23	ND	6.93			PCB-73	ND	4.47		
PCB-24	ND	4.85			PCB-74	ND	4.59		
PCB-25	ND	6.12			PCB-75	-	-	C048	48
PCB-26	ND	7.08			PCB-76	-	-	C066	66
PCB-27	ND	5.00			PCB-77	ND	6.48		
PCB-28	ND	6.05			PCB-78	2560	-		
PCB-29	ND	6.83			PCB-79	ND	6.06		
PCB-30	ND	4.89			PCB-80	ND	4.17		
PCB-31	ND	7.02			PCB-81	ND	5.67		
PCB-32	ND	5.13			PCB-82	ND	11.9		
PCB-33	-	-	C020	20/21	PCB-83	ND	9.24	C	112
PCB-34	ND	7.86			PCB-84	63.7	-	C	92
PCB-35	ND	7.60			PCB-85	ND	8.48	C	116
PCB-36	1110	-			PCB-86	ND	10.0		
PCB-37	ND	6.71			PCB-87	ND	7.97	C	117/125
PCB-38	ND	7.16			PCB-88	ND	7.88	C	91
PCB-39	ND	7.22			PCB-89	ND	10.6		
PCB-40	ND	8.35			PCB-90	ND	9.15	C	101
PCB-41	ND	4.87	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	5.29	C	59	PCB-92	-	-	C084	84
PCB-43	ND	6.49	C	49	PCB-93	ND	9.33		
PCB-44	ND	7.07			PCB-94	ND	8.74		
PCB-45	ND	7.18			PCB-95	ND	9.31		
PCB-46	ND	7.56			PCB-96	ND	6.31		
PCB-47	ND	5.13			PCB-97	ND	8.38		
PCB-48	ND	5.21	C	75	PCB-98	ND	6.71	C	102
PCB-49	-	-	C043	43	PCB-99	ND	8.07		
PCB-50	ND	6.36			PCB-100	ND	7.43		

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EPA Method 1668
PCBs

FAL ID: 10322-001-SA
Client ID: LDW-BA-SU-S010-TB-EXSITU1
Matrix: Solvent
Batch No: X3955

Date Extracted: 12-15-2016
Date Received: 12-08-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-1-6-17
GC Column: DB1
Units: pg/sample

Acquired: 01-06-2017

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	6.86		
PCB-102	-	-	C098	98	PCB-152	ND	4.59		
PCB-103	ND	7.31			PCB-153	ND	5.59		
PCB-104	1960	-			PCB-154	ND	5.12		
PCB-105	ND	6.13			PCB-155	4120	-		
PCB-106	ND	5.98	C	118	PCB-156	ND	5.17		
PCB-107	ND	5.82	C	108	PCB-157	ND	5.79		
PCB-108	-	-	C107	107	PCB-158	ND	5.10	C	160
PCB-109	ND	7.66			PCB-159	ND	4.99		
PCB-110	ND	7.05			PCB-160	-	-	C158	158
PCB-111	ND	6.50	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	8.29			PCB-163	-	-	C138	138/164
PCB-114	ND	5.22			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	5.37		
PCB-117	-	-	C087	87/125	PCB-167	ND	5.62		
PCB-118	-	-	C106	106	PCB-168	65.1	-		
PCB-119	ND	7.02			PCB-169	ND	5.00		
PCB-120	ND	6.69			PCB-170	ND	7.10		
PCB-121	3350	-			PCB-171	ND	6.39		
PCB-122	ND	5.83			PCB-172	106	-		
PCB-123	ND	4.94			PCB-173	ND	6.93		
PCB-124	ND	5.69			PCB-174	ND	6.38		
PCB-125	-	-	C087	87/117	PCB-175	ND	6.06		
PCB-126	ND	6.36			PCB-176	ND	4.67		
PCB-127	ND	6.06			PCB-177	ND	6.64		
PCB-128	ND	6.14	C	162	PCB-178	ND	6.43		
PCB-129	ND	8.20			PCB-179	ND	4.54		
PCB-130	ND	6.97			PCB-180	ND	5.14		
PCB-131	ND	6.88	C	133	PCB-181	ND	5.95		
PCB-132	ND	6.25	C	161	PCB-182	ND	5.72	C	187
PCB-133	-	-	C131	131	PCB-183	ND	5.75		
PCB-134	ND	6.92	C	143	PCB-184	5630	-		
PCB-135	ND	6.89			PCB-185	ND	6.21		
PCB-136	ND	4.44			PCB-186	ND	4.73		
PCB-137	ND	7.61			PCB-187	-	-	C182	182
PCB-138	ND	5.12	C	163/164	PCB-188	ND	4.79		
PCB-139	ND	6.33	C	149	PCB-189	ND	4.62		
PCB-140	ND	6.41			PCB-190	ND	5.10		
PCB-141	ND	6.68			PCB-191	ND	4.89		
PCB-142	3780	-			PCB-192	3890	-		
PCB-143	-	-	C134	134	PCB-193	ND	4.67		
PCB-144	ND	6.82			PCB-194	ND	4.27		
PCB-145	ND	4.61			PCB-195	ND	4.56		
PCB-146	ND	5.73	C	165	PCB-196	ND	5.33	C	203
PCB-147	ND	6.22			PCB-197	59.4	-		
PCB-148	ND	6.34			PCB-198	ND	5.81		
PCB-149	-	-	C139	139	PCB-199	ND	5.69		
PCB-150	ND	4.54			PCB-200	ND	4.22		

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EPA Method 1668
PCBs

FAL ID: 10322-001-SA
Client ID: LDW-BA-SU-S010-TB-EXSITU1
Matrix: Solvent
Batch No: X3955

Date Extracted: 12-15-2016
Date Received: 12-08-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-1-6-17
GC Column: DB1
Units: pg/sample

Acquired: 01-06-2017

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	4.21		
PCB-202	ND	4.29		
PCB-203	-	-	C196	196
PCB-204	7060	-		
PCB-205	ND	3.32		
PCB-206	ND	3.94		
PCB-207	40.0	-		
PCB-208	ND	2.59		
PCB-209	29.9	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	110	5.00 - 145	
13C-PCB-3	106	5.00 - 145	
13C-PCB-4	104	5.00 - 145	
13C-PCB-15	99.9	5.00 - 145	
13C-PCB-19	107	5.00 - 145	
13C-PCB-37	100	5.00 - 145	
13C-PCB-54	103	5.00 - 145	
13C-PCB-77	98.6	10.0 - 145	
13C-PCB-81	100	10.0 - 145	
13C-PCB-104	102	10.0 - 145	
13C-PCB-105	101	10.0 - 145	
13C-PCB-114	103	10.0 - 145	
13C-PCB-118	105	10.0 - 145	
13C-PCB-123	102	10.0 - 145	
13C-PCB-126	105	10.0 - 145	
13C-PCB-155	102	10.0 - 145	
13C-PCB-156	100	10.0 - 145	
13C-PCB-157	101	10.0 - 145	
13C-PCB-167	103	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	98.8	10.0 - 145	
13C-PCB-189	98.4	10.0 - 145	
13C-PCB-202	103	10.0 - 145	
13C-PCB-205	101	10.0 - 145	
13C-PCB-206	95.9	10.0 - 145	
13C-PCB-208	98.3	10.0 - 145	
13C-PCB-209	95.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	104	5.00 - 145	
13C-PCB-111	99.9	10.0 - 145	
13C-PCB-178	96.1	10.0 - 145	

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

Analyst: _____

Date: 1/10/2017

Reviewed By: _____

Date: 1/10/2017

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EPA Method 1668
PCBs

FAL ID: 10322-002-SA
Client ID: LDW-BA-SU-S010-TB-EXSITU2
Matrix: Solvent
Batch No: X3955

Date Extracted: 12-15-2016
Date Received: 12-08-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-1-6-17
GC Column: DB1
Units: pg/sample

Acquired: 01-06-2017
Total Conc: 28600

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	7.85			PCB-51	ND	5.24		
PCB-2	ND	8.80			PCB-52	ND	4.57	C	69
PCB-3	ND	8.82			PCB-53	ND	5.39		
PCB-4	ND	12.6			PCB-54	ND	4.14		
PCB-5	ND	11.1			PCB-55	27.7	-		
PCB-6	ND	10.5			PCB-56	ND	6.49	C	60
PCB-7	ND	10.5			PCB-57	ND	4.09		
PCB-8	ND	10.7			PCB-58	ND	3.98		
PCB-9	ND	10.9			PCB-59	-	-	C042	42
PCB-10	ND	11.9			PCB-60	-	-	C056	56
PCB-11	ND	11.2			PCB-61	ND	3.71	C	70
PCB-12	ND	11.5			PCB-62	ND	4.22		
PCB-13	ND	11.2			PCB-63	ND	3.97		
PCB-14	49.9	-			PCB-64	-	-	C041	41/71/72
PCB-15	ND	11.0			PCB-65	ND	4.37		
PCB-16	ND	7.59			PCB-66	ND	3.93	C	76
PCB-17	ND	7.51			PCB-67	ND	4.14		
PCB-18	ND	8.12			PCB-68	ND	3.84		
PCB-19	ND	8.16			PCB-69	-	-	C052	52
PCB-20	ND	7.42	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	7.38			PCB-72	-	-	C041	41/64/71
PCB-23	ND	7.39			PCB-73	ND	3.77		
PCB-24	ND	5.66			PCB-74	ND	3.86		
PCB-25	ND	6.53			PCB-75	-	-	C048	48
PCB-26	ND	7.54			PCB-76	-	-	C066	66
PCB-27	ND	5.84			PCB-77	ND	6.67		
PCB-28	ND	6.45			PCB-78	2430	-		
PCB-29	ND	7.29			PCB-79	ND	6.40		
PCB-30	ND	5.71			PCB-80	ND	3.52		
PCB-31	ND	7.48			PCB-81	ND	6.16		
PCB-32	ND	5.99			PCB-82	ND	9.79		
PCB-33	-	-	C020	20/21	PCB-83	ND	7.63	C	112
PCB-34	ND	8.38			PCB-84	50.6	-	C	92
PCB-35	ND	8.10			PCB-85	ND	7.00	C	116
PCB-36	943	-			PCB-86	ND	8.29		
PCB-37	ND	7.16			PCB-87	ND	6.58	C	117/125
PCB-38	ND	7.64			PCB-88	ND	5.69	C	91
PCB-39	ND	7.70			PCB-89	ND	8.75		
PCB-40	ND	7.03			PCB-90	ND	7.55	C	101
PCB-41	ND	4.10	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	4.46	C	59	PCB-92	-	-	C084	84
PCB-43	ND	5.47	C	49	PCB-93	ND	6.74		
PCB-44	ND	5.95			PCB-94	ND	6.31		
PCB-45	ND	6.05			PCB-95	ND	6.73		
PCB-46	ND	6.37			PCB-96	ND	4.56		
PCB-47	ND	4.32			PCB-97	ND	6.92		
PCB-48	ND	4.39	C	75	PCB-98	ND	4.84	C	102
PCB-49	-	-	C043	43	PCB-99	ND	6.66		
PCB-50	ND	5.36			PCB-100	ND	5.37		

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EPA Method 1668
PCBs

FAL ID: 10322-002-SA
Client ID: LDW-BA-SU-S010-TB-EXSITU2
Matrix: Solvent
Batch No: X3955

Date Extracted: 12-15-2016
Date Received: 12-08-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-1-6-17
GC Column: DB1
Units: pg/sample

Acquired: 01-06-2017

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	5.59		
PCB-102	-	-	C098	98	PCB-152	ND	4.29		
PCB-103	ND	5.28			PCB-153	ND	4.56		
PCB-104	1600	-			PCB-154	ND	4.78		
PCB-105	ND	5.57			PCB-155	3350	-		
PCB-106	ND	5.57	C	118	PCB-156	ND	4.31		
PCB-107	ND	5.68	C	108	PCB-157	ND	4.45		
PCB-108	-	-	C107	107	PCB-158	ND	4.15	C	160
PCB-109	ND	6.33			PCB-159	ND	4.07		
PCB-110	ND	5.82			PCB-160	-	-	C158	158
PCB-111	ND	5.37	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	6.84			PCB-163	-	-	C138	138/164
PCB-114	ND	5.50			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.37		
PCB-117	-	-	C087	87/125	PCB-167	ND	4.37		
PCB-118	-	-	C106	106	PCB-168	ND	4.29		
PCB-119	ND	5.80			PCB-169	ND	4.49		
PCB-120	ND	5.52			PCB-170	ND	6.11		
PCB-121	2940	-			PCB-171	ND	5.49		
PCB-122	ND	5.70			PCB-172	95.5	-		
PCB-123	ND	5.07			PCB-173	ND	5.96		
PCB-124	ND	5.56			PCB-174	ND	5.49		
PCB-125	-	-	C087	87/117	PCB-175	ND	5.21		
PCB-126	ND	6.24			PCB-176	ND	4.02		
PCB-127	ND	5.92			PCB-177	ND	5.71		
PCB-128	ND	5.00	C	162	PCB-178	ND	5.53		
PCB-129	ND	6.68			PCB-179	ND	3.90		
PCB-130	ND	5.68			PCB-180	ND	4.42		
PCB-131	ND	5.61	C	133	PCB-181	ND	5.12		
PCB-132	ND	5.09	C	161	PCB-182	ND	4.92	C	187
PCB-133	-	-	C131	131	PCB-183	ND	4.95		
PCB-134	ND	5.64	C	143	PCB-184	4590	-		
PCB-135	ND	5.61			PCB-185	ND	5.34		
PCB-136	ND	4.14			PCB-186	ND	4.07		
PCB-137	ND	6.20			PCB-187	-	-	C182	182
PCB-138	ND	4.17	C	163/164	PCB-188	ND	4.32		
PCB-139	ND	5.16	C	149	PCB-189	ND	3.75		
PCB-140	ND	5.23			PCB-190	ND	4.39		
PCB-141	ND	5.45			PCB-191	ND	4.21		
PCB-142	3340	-			PCB-192	3190	-		
PCB-143	-	-	C134	134	PCB-193	ND	4.02		
PCB-144	ND	5.56			PCB-194	ND	4.77		
PCB-145	ND	4.30			PCB-195	ND	5.10		
PCB-146	ND	4.67	C	165	PCB-196	ND	6.18	C	203
PCB-147	ND	5.07			PCB-197	44.9	-		
PCB-148	ND	5.92			PCB-198	ND	6.74		
PCB-149	-	-	C139	139	PCB-199	ND	6.61		
PCB-150	ND	4.24			PCB-200	ND	4.90		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10322-002-SA
Client ID: LDW-BA-SU-S010-TB-EXSITU2
Matrix: Solvent
Batch No: X3955

Date Extracted: 12-15-2016
Date Received: 12-08-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-1-6-17
GC Column: DB1
Units: pg/sample

Acquired: 01-06-2017

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	4.89		
PCB-202	ND	4.97		
PCB-203	-	-	C196	196
PCB-204	5890	-		
PCB-205	ND	3.71		
PCB-206	ND	4.60		
PCB-207	33.1	-		
PCB-208	ND	3.00		
PCB-209	27.5	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	105	5.00 - 145	
13C-PCB-3	103	5.00 - 145	
13C-PCB-4	101	5.00 - 145	
13C-PCB-15	98.6	5.00 - 145	
13C-PCB-19	101	5.00 - 145	
13C-PCB-37	97.6	5.00 - 145	
13C-PCB-54	102	5.00 - 145	
13C-PCB-77	100	10.0 - 145	
13C-PCB-81	100	10.0 - 145	
13C-PCB-104	99.9	10.0 - 145	
13C-PCB-105	103	10.0 - 145	
13C-PCB-114	105	10.0 - 145	
13C-PCB-118	108	10.0 - 145	
13C-PCB-123	105	10.0 - 145	
13C-PCB-126	105	10.0 - 145	
13C-PCB-155	102	10.0 - 145	
13C-PCB-156	102	10.0 - 145	
13C-PCB-157	104	10.0 - 145	
13C-PCB-167	103	10.0 - 145	
13C-PCB-169	101	10.0 - 145	
13C-PCB-188	100	10.0 - 145	
13C-PCB-189	100	10.0 - 145	
13C-PCB-202	103	10.0 - 145	
13C-PCB-205	99.7	10.0 - 145	
13C-PCB-206	95.0	10.0 - 145	
13C-PCB-208	102	10.0 - 145	
13C-PCB-209	94.4	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	107	5.00 - 145	
13C-PCB-111	99.7	10.0 - 145	
13C-PCB-178	96.9	10.0 - 145	

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

Analyst: _____

Date: 1/10/17

Reviewed By: _____

Date: 1/10/17

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EPA Method 1668
PCBs

FAL ID: 10322-003-SA
Client ID: LDW-BA-SU-S010-TB-EXSITU3
Matrix: Solvent
Batch No: X3955

Date Extracted: 12-15-2016
Date Received: 12-08-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-1-6-17
GC Column: DB1
Units: pg/sample

Acquired: 01-06-2017
Total Conc: 36800

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	8.40			PCB-51	ND	5.52		
PCB-2	ND	9.54			PCB-52	ND	4.82	C	69
PCB-3	ND	9.67			PCB-53	ND	5.69		
PCB-4	ND	15.3			PCB-54	ND	4.36		
PCB-5	ND	13.6			PCB-55	33.6	-		
PCB-6	ND	12.9			PCB-56	ND	7.64	C	60
PCB-7	ND	12.8			PCB-57	ND	4.31		
PCB-8	ND	13.1			PCB-58	ND	4.20		
PCB-9	ND	13.3			PCB-59	-	-	C042	42
PCB-10	ND	14.6			PCB-60	-	-	C056	56
PCB-11	ND	13.8			PCB-61	ND	3.91	C	70
PCB-12	ND	14.1			PCB-62	ND	4.45		
PCB-13	ND	13.8			PCB-63	ND	4.19		
PCB-14	109	-			PCB-64	-	-	C041	41/71/72
PCB-15	ND	13.5			PCB-65	ND	4.61		
PCB-16	ND	8.28			PCB-66	ND	4.14	C	76
PCB-17	ND	8.19			PCB-67	ND	4.37		
PCB-18	ND	8.86			PCB-68	ND	4.05		
PCB-19	ND	8.91			PCB-69	-	-	C052	52
PCB-20	ND	7.54	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	7.50			PCB-72	-	-	C041	41/64/71
PCB-23	ND	7.51			PCB-73	ND	3.97		
PCB-24	ND	6.18			PCB-74	ND	4.07		
PCB-25	ND	6.63			PCB-75	-	-	C048	48
PCB-26	ND	7.66			PCB-76	-	-	C066	66
PCB-27	ND	6.37			PCB-77	ND	7.93		
PCB-28	ND	6.56			PCB-78	2970	-		
PCB-29	ND	7.40			PCB-79	ND	7.53		
PCB-30	ND	6.22			PCB-80	ND	3.71		
PCB-31	ND	7.61			PCB-81	ND	7.17		
PCB-32	ND	6.53			PCB-82	ND	12.5		
PCB-33	-	-	C020	20/21	PCB-83	ND	9.77	C	112
PCB-34	ND	8.52			PCB-84	62.8	-	C	92
PCB-35	ND	8.23			PCB-85	ND	8.97	C	116
PCB-36	1090	-			PCB-86	ND	10.6		
PCB-37	ND	7.27			PCB-87	ND	8.43	C	117/125
PCB-38	ND	7.76			PCB-88	ND	6.40	C	91
PCB-39	ND	7.83			PCB-89	ND	11.2		
PCB-40	ND	7.41			PCB-90	ND	9.67	C	101
PCB-41	ND	4.32	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	4.70	C	59	PCB-92	-	-	C084	84
PCB-43	ND	5.76	C	49	PCB-93	ND	7.58		
PCB-44	ND	6.27			PCB-94	ND	7.10		
PCB-45	ND	6.38			PCB-95	ND	7.56		
PCB-46	ND	6.71			PCB-96	ND	5.12		
PCB-47	ND	4.55			PCB-97	ND	8.86		
PCB-48	ND	4.63	C	75	PCB-98	ND	5.45	C	102
PCB-49	-	-	C043	43	PCB-99	ND	8.53		
PCB-50	ND	5.65			PCB-100	ND	6.03		

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EPA Method 1668
PCBs

FAL ID: 10322-003-SA
Client ID: LDW-BA-SU-S010-TB-EXSITU3
Matrix: Solvent
Batch No: X3955

Date Extracted: 12-15-2016
Date Received: 12-08-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-1-6-17
GC Column: DB1
Units: pg/sample

Acquired: 01-06-2017

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	6.48		
PCB-102	-	-	C098	98	PCB-152	ND	3.82		
PCB-103	ND	5.94			PCB-153	ND	5.28		
PCB-104	1910	-			PCB-154	ND	4.26		
PCB-105	ND	5.77			PCB-155	4060	-		
PCB-106	ND	5.86	C	118	PCB-156	ND	4.88		
PCB-107	ND	5.47	C	108	PCB-157	ND	5.45		
PCB-108	-	-	C107	107	PCB-158	ND	4.82	C	160
PCB-109	ND	8.11			PCB-159	ND	4.72		
PCB-110	ND	7.45			PCB-160	-	-	C158	158
PCB-111	ND	6.87	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	8.76			PCB-163	-	-	C138	138/164
PCB-114	ND	4.79			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	5.07		
PCB-117	-	-	C087	87/125	PCB-167	ND	5.18		
PCB-118	-	-	C106	106	PCB-168	74.5	-		
PCB-119	ND	7.42			PCB-169	ND	4.89		
PCB-120	ND	7.08			PCB-170	ND	6.86		
PCB-121	3590	-			PCB-171	ND	6.17		
PCB-122	ND	5.48			PCB-172	117	-		
PCB-123	ND	4.52			PCB-173	ND	6.69		
PCB-124	ND	5.34			PCB-174	ND	6.16		
PCB-125	-	-	C087	87/117	PCB-175	ND	5.85		
PCB-126	ND	6.36			PCB-176	ND	4.51		
PCB-127	ND	5.69			PCB-177	ND	6.42		
PCB-128	ND	5.80	C	162	PCB-178	ND	6.21		
PCB-129	ND	7.75			PCB-179	ND	4.39		
PCB-130	ND	6.59			PCB-180	ND	4.97		
PCB-131	ND	6.51	C	133	PCB-181	ND	5.75		
PCB-132	ND	5.91	C	161	PCB-182	ND	5.53	C	187
PCB-133	-	-	C131	131	PCB-183	ND	5.56		
PCB-134	ND	6.54	C	143	PCB-184	6020	-		
PCB-135	ND	6.51			PCB-185	ND	6.00		
PCB-136	ND	3.70			PCB-186	ND	4.57		
PCB-137	ND	7.19			PCB-187	-	-	C182	182
PCB-138	ND	4.84	C	163/164	PCB-188	ND	4.76		
PCB-139	ND	5.98	C	149	PCB-189	ND	4.32		
PCB-140	ND	6.06			PCB-190	ND	4.93		
PCB-141	ND	6.32			PCB-191	ND	4.73		
PCB-142	4290	-			PCB-192	4330	-		
PCB-143	-	-	C134	134	PCB-193	ND	4.51		
PCB-144	ND	6.44			PCB-194	ND	5.04		
PCB-145	ND	3.84			PCB-195	ND	5.39		
PCB-146	ND	5.41	C	165	PCB-196	ND	6.12	C	203
PCB-147	ND	5.88			PCB-197	67.0	-		
PCB-148	ND	5.29			PCB-198	ND	6.67		
PCB-149	-	-	C139	139	PCB-199	ND	6.54		
PCB-150	ND	3.78			PCB-200	ND	4.85		

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EPA Method 1668
PCBs

FAL ID: 10322-003-SA
Client ID: LDW-BA-SU-S010-TB-EXSITU3
Matrix: Solvent
Batch No: X3955

Date Extracted: 12-15-2016
Date Received: 12-08-2016
Amount: 1.00 sample

ICal: DAILY209FAL4-1-6-17
GC Column: DB1
Units: pg/sample

Acquired: 01-06-2017

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	4.84		
PCB-202	ND	4.92		
PCB-203	-	-	C196	196
PCB-204	8030	-		
PCB-205	ND	3.92		
PCB-206	ND	4.31		
PCB-207	43.1	-		
PCB-208	ND	2.89		
PCB-209	35.7	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	106	5.00 - 145	
13C-PCB-3	103	5.00 - 145	
13C-PCB-4	101	5.00 - 145	
13C-PCB-15	96.0	5.00 - 145	
13C-PCB-19	98.4	5.00 - 145	
13C-PCB-37	103	5.00 - 145	
13C-PCB-54	103	5.00 - 145	
13C-PCB-77	101	10.0 - 145	
13C-PCB-81	102	10.0 - 145	
13C-PCB-104	101	10.0 - 145	
13C-PCB-105	104	10.0 - 145	
13C-PCB-114	107	10.0 - 145	
13C-PCB-118	106	10.0 - 145	
13C-PCB-123	105	10.0 - 145	
13C-PCB-126	104	10.0 - 145	
13C-PCB-155	103	10.0 - 145	
13C-PCB-156	102	10.0 - 145	
13C-PCB-157	104	10.0 - 145	
13C-PCB-167	104	10.0 - 145	
13C-PCB-169	102	10.0 - 145	
13C-PCB-188	98.7	10.0 - 145	
13C-PCB-189	103	10.0 - 145	
13C-PCB-202	104	10.0 - 145	
13C-PCB-205	99.1	10.0 - 145	
13C-PCB-206	96.7	10.0 - 145	
13C-PCB-208	100	10.0 - 145	
13C-PCB-209	93.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	110	5.00 - 145	
13C-PCB-111	103	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: 1/10/2017

Reviewed By: _____

Date: 1/10/2017

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CHAIN OF CUSTODY

RAMBOLL ENVIRON

Shipping: 4770 NE View Dr. Mailing: P.O. Box 216
Port Gamble, WA. 98364
Tel: (360) 297-6045, Fax: (360)297-6901

Destination: Frontier Analytical Laboratory	Sample Originator (Organization): Ramboll	Report Results To: Geosyntec	Phone: 714-465-1226
Destination Contact: Brad Silverbush	PERSON WHO COLLECTED SAMPLE: Collin Ray	Contact Name: Jason Conder	Fax:
Date: 12/07/16	Address: 10322	Address:	Email: jconder@geosyntec.com
Turn-Around-Time: Standard			
Project Name: Lower Duwamish Waterway	Phone:	Invoicing To:	
	Fax:	Comments or Special Instructions: Contact Jason Conder w/analysis questions	
Contract/PO:	E-mail		

No.	Sample ID	Matrix	Volume & Type of Container	Date & Time	Analyses: EPA 1668c						Preservation	Sample Temp Upon Receipt	LAB ID
1	LDW-BA-SU-S010-TB-EXSITU1	hexane	7mL amber glass vial	~~12/07/16 1015~~ 12/06/16 1515	X						4°C		
2	LDW-BA-SU-S010-TB-EXSITU2	↓	↓	12/06/16 1528	X						↓		
3	LDW-BA-SU-S010-TB-EXSITU3	↓	↓	12/06/16 1552	X						↓		
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16	Gretchen to Kathy - L4 Data package -												
17													
18	Report: Floyd Snider												
19													
20	Invoice: AMEC												

Relinquished by:	Recieved by:	Relinquished by:	Recieved by:	Matrix Codes
Print Name: Collin Ray	Print Name: Kathy Zurp	Print Name:	Print Name:	FW = Fresh Water
Signature: Collin Ray	Signature: Kathy Zurp	Signature:	Signature:	SB = Salt & Brackish Water
Affiliation: Ramboll	Affiliation: Frontier Analytical	Affiliation:	Affiliation:	SS = Soil & Sediment
Date/Time: 12/07/16 1025	Date/Time: 12/8/16 1020	Date/Time:	Date/Time:	

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **10322**

Client:	Floyd | Snider
Client Project ID:	Lower Duwamish Waterway
Date Received:	12/08/2016
Time Received:	10:20 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	3
Duplicates:	0
Storage Location:	R3

Method of Delivery:	Fed-Ex
Tracking Number:	777887303722
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	1
Cooling Method	Blue Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test aqueous sample for residual Chlorine	No
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	N/A
Anomalies or additional comments:	

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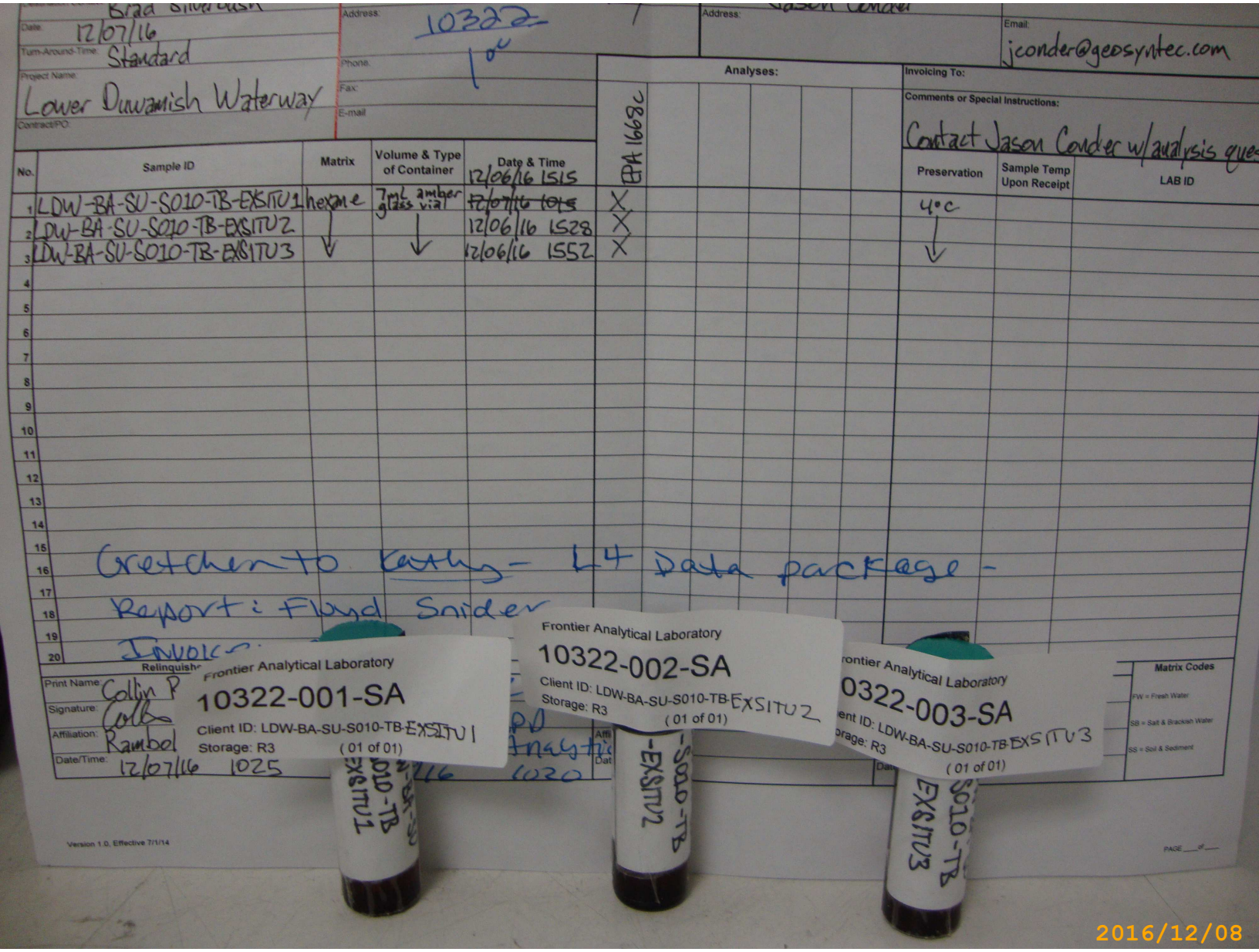

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PROJECT REQUEST SHEET

Project #:	10322	Sample #:	1 - 3	Client Manager:	BS
Client:	Floyd | Snider			Hold Time:	12/06/2017
Matrix:	Solvent	Extraction Batch:	3955	Due Date:	01/03/2017
Method:	EPA 1668 PCB			Storage:	R3
SOP:	SOPs: EP1A Rev.10 IP1A Rev.8				

COMMENTS/INSTRUCTIONS:

L4 Data package

Results: 10322

Extract/s located in box: "B. Cereus"

Standards: 10322

Instrument:
DB5
DB225
DB1 FALY
Other

Sample #	Sample Sample Control -- Prep		Extract Prep -- Instrument		Extract Instrument -- Storage	
	Initial	Date	Initial	Date	Initial	Date
10322-001-0001-SA						
10322-002-0001-SA						
10322-003-0001-SA						

Frontier Analytical Laboratory
EXTRACTION SHEET

Project #: 10322 Extraction Date: 2016-12-15 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: R161111A Vial: 2 Chemist/Witness/Date	NS Amt: 10.0uL ID: 161207A Vial: 1 Chemist/Witness/Date	CSS Amt: 10.0uL ID: R161207A Vial: 1 Chemist/Witness/Date
03955-001-0001-MB	(5.00ml)*	N/A	DN KH 12.15.16	N/A	DN KH 12.15.16
03955-001-0001-OPR	(5.00ml)*			DN KH 12.15.16	
10322-001-0001-SA	5.6** ml			N/A	
10322-002-0001-SA	5.6** ml				
10322-003-0001-SA	5.5** ml				

AX-21 Charcoal Cleaned	130410	Acetone	160452	Acid Alumina	A0347591	Hexane	163812R
Methanol	164218	Methylene Chloride (DCM)	164514	Silica Gel	TA2005434	Sodium Hydroxide 1N	158904
Sodium Sulfate	15J130002	Sulfuric Acid	163111	Tetradecane	157561	Toluene	56155
Water	164499	C-18 Empore Discs	320852D	Cyclohexane	55211		

Comments: * MB and OPR blank matrix = 5.0 ml of hexane. DN 12.15.16

** Measured approximate volume of hexane with a 5.0 ml pipet. DN 12.15.16

Frontier Analytical Laboratory
CLEANUP SHEET

Project #: 10322

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: 161208A Vial: 1
	Chemist/Date	Chemist/Date	Chemist/Date	Chemist/Witness/Date
03955-001-0001-MB	DN 12.15.16	N/A	N/A	DN 12.15.16
03955-001-0001-OPR				
10322-001-0001-SA				
10322-002-0001-SA				
10322-003-0001-SA				

AX-21 Charcoal Cleaned	130410	Acetone	160452	Acid Alumina	A0347591	Hexane	163812R
Methanol	164218	Methylene Chloride (DCM)	164514	Silica Gel	TA2005434	Sodium Hydroxide 1N	158904
Sodium Sulfate	15J130002	Sulfuric Acid	163111	Tetradecane	157561	Toluene	56155
Water	164499	C-18 Empore Discs	320852D	Cyclohexane	55211		

Comments:

FAL ID: 03955-001-0001-MB Filename: 06JAN17Z Sam:3 Acquired: 6-JAN-17 10:10:54 ICal: DAILY209FAL4-1-6-17
Client ID: Method Blank ConCal: ST010617Z1 EndCal: ST010617Z2
Results: 10322 GC Column: DB1 Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	0.90	*		1940	1520	8.18	
13C-PCB-1	3.66e+07	3.10	y	14:30	1.12	10600					106
PCB-2	*	*	n	NotFnd	0.85	*		1940	1520	9.24	
PCB-3	*	*	n	NotFnd	0.89	*		1940	1520	9.32	
13C-PCB-3	3.70e+07	3.17	y	16:57	1.14	10500					105
PCB-4	*	*	n	NotFnd	1.09	*		1580	1600	13.4	
PCB-10	*	*	n	NotFnd	1.01	*		1580	1600	12.1	
13C-PCB-4	1.95e+07	1.58	y	18:11	0.61	10300					103
PCB-9	*	*	n	NotFnd	1.10	*		1580	1600	11.1	
PCB-7	*	*	n	NotFnd	1.14	*		1580	1600	10.7	
PCB-6	*	*	n	NotFnd	1.14	*		1580	1600	10.7	
PCB-8	*	*	n	NotFnd	1.12	*		1580	1600	10.9	
PCB-5	*	*	n	NotFnd	1.08	*		1580	1600	11.3	
PCB-14	*	*	n	NotFnd	1.10	*		1580	1600	11.2	
PCB-11	*	*	n	NotFnd	1.07	*		1580	1600	11.4	
PCB-13	*	*	n	NotFnd	1.07	*		1580	1600	11.5	
PCB-12	*	*	n	NotFnd	1.04	*		1580	1600	11.7	
PCB-15	*	*	n	NotFnd	0.99	*		1580	1600	10.8	
13C-PCB-15	3.07e+07	1.58	y	23:45	1.00	9890					98.9
PCB-19	*	*	n	NotFnd	0.94	*		1340	564	8.79	
PCB-30	*	*	n	NotFnd	1.34	*		1340	564	6.14	
PCB-18	*	*	n	NotFnd	0.94	*		1340	564	8.74	
PCB-17	*	*	n	NotFnd	1.02	*		1340	564	8.08	
PCB-27	*	*	n	NotFnd	1.31	*		1340	564	6.29	
PCB-24	*	*	n	NotFnd	1.35	*		1340	564	6.10	
PCB-16	*	*	n	NotFnd	1.01	*		1340	564	8.17	
PCB-32	*	*	n	NotFnd	1.28	*		1340	564	6.45	
13C-PCB-19	2.17e+07	1.08	y	22:05	0.68	10300					103
13C-PCB-9	3.09e+07	1.58	y	19:53	-	46.5					
PCB-34	*	*	n	NotFnd	0.91	*		1000	452	7.96	
PCB-23	*	*	n	NotFnd	1.03	*		1000	452	7.02	
PCB-29	*	*	n	NotFnd	1.04	*		1000	452	6.92	
PCB-26	*	*	n	NotFnd	1.01	*		1000	452	7.17	
PCB-25	*	*	n	NotFnd	1.17	*		1000	452	6.20	
PCB-31	*	*	n	NotFnd	1.02	*		1000	452	7.11	
PCB-28	*	*	n	NotFnd	1.18	*		1000	452	6.13	
PCB-20	*	*	n	NotFnd	1.02	*		1000	452	7.05	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.02	*		1000	452	7.05	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.02	*		1000	452	7.05	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.03	*		1000	452	7.02	
PCB-36	*	*	n	NotFnd	0.99	*		1000	452	7.27	
PCB-39	*	*	n	NotFnd	0.99	*		1000	452	7.32	
PCB-38	*	*	n	NotFnd	1.00	*		1000	452	7.26	
PCB-35	*	*	n	NotFnd	0.94	*		1000	452	7.70	
PCB-37	*	*	n	NotFnd	1.06	*		1000	452	6.80	
13C-PCB-37	2.36e+07	1.08	y	30:25	1.09	10000					100

PCB-54	*	*	n	NotFnd	0.95	*		620	748	5.92	
PCB-50	*	*	n	NotFnd	0.73	*		620	748	7.66	
PCB-53	*	*	n	NotFnd	0.73	*		620	748	7.71	
PCB-51	*	*	n	NotFnd	0.75	*		620	748	7.49	
PCB-45	*	*	n	NotFnd	0.65	*		620	748	8.65	
PCB-46	*	*	n	NotFnd	0.62	*		620	748	9.10	
PCB-52	*	*	n	NotFnd	0.86	*		620	748	6.54	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	0.86	*		620	748	6.54	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.04	*		620	748	5.39	
PCB-43	*	*	n	NotFnd	0.72	*		620	748	7.82	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.72	*		620	748	7.82	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.91	*		620	748	6.17	
PCB-48	*	*	n	NotFnd	0.89	*		620	748	6.27	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	0.89	*		620	748	6.27	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.90	*		620	748	6.25	
PCB-62	*	*	n	NotFnd	0.93	*		620	748	6.04	
PCB-44	*	*	n	NotFnd	0.66	*		620	748	8.51	
PCB-42	*	*	n	NotFnd	0.88	*		620	748	6.37	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.88	*		620	748	6.37	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	0.96	*		620	748	5.86	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	0.96	*		620	748	5.86	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	0.96	*		620	748	5.86	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	0.96	*		620	748	5.86	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	1.02	*		620	748	5.50	
PCB-40	*	*	n	NotFnd	0.56	*		620	748	10.1	
PCB-57	*	*	n	NotFnd	0.96	*		620	748	5.85	
PCB-67	*	*	n	NotFnd	0.95	*		620	748	5.92	
PCB-58	*	*	n	NotFnd	0.99	*		620	748	5.69	
PCB-63	*	*	n	NotFnd	0.99	*		620	748	5.68	
PCB-74	*	*	n	NotFnd	1.02	*		620	748	5.53	
PCB-61	*	*	n	NotFnd	1.06	*		620	748	5.30	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	1.06	*		620	748	5.30	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.00	*		620	748	5.61	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.00	*		620	748	5.61	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.12	*		620	748	5.03	
PCB-55	*	*	n	NotFnd	0.99	*		620	748	5.69	
13C-PCB-54	2.43e+07	0.80	y	25:38	1.09	10300					103
PCB-104	*	*	n	NotFnd	1.04	*		601	654	5.95	
PCB-96	*	*	n	NotFnd	0.95	*		601	654	6.49	
PCB-103	*	*	n	NotFnd	0.82	*		601	654	7.52	
PCB-100	*	*	n	NotFnd	0.81	*		601	654	7.64	
PCB-94	*	*	n	NotFnd	0.69	*		601	654	8.99	
PCB-98	*	*	n	NotFnd	0.90	*		601	654	6.90	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.90	*		601	654	6.90	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.65	*		601	654	9.58	
PCB-93	*	*	n	NotFnd	0.64	*		601	654	9.60	
PCB-88	*	*	n	NotFnd	0.76	*		601	654	8.11	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.76	*		601	654	8.11	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.93	*		601	654	6.62	
13C-PCB-104	2.11e+07	1.57	y	30:04	0.94	10400					104
13C-PCB-28	2.65e+07	1.07	y	26:43	1.19	10200					102
13C-PCB-52	2.17e+07	0.79	y	28:59	-	44.4					

PCB-56	*	*	n	NotFnd	1.00	*	536	716	7.28	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.00	*	536	716	7.28	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.02	*	536	716	7.17	
PCB-78	*	*	n	NotFnd	0.99	*	536	716	7.37	
PCB-81	*	*	n	NotFnd	1.05	*	536	716	7.00	
13C-PCB-81	1.96e+07	0.80	y	36:11	1.01	9890				98.9
PCB-77	*	*	n	NotFnd	0.97	*	536	716	7.37	
13C-PCB-77	2.02e+07	0.81	y	36:45	1.02	10000				100.0
PCB-155	*	*	n	NotFnd	0.97	*	676	620	5.97	
PCB-150	*	*	n	NotFnd	0.90	*	676	620	6.39	
PCB-152	*	*	n	NotFnd	0.89	*	676	620	6.46	
PCB-145	*	*	n	NotFnd	0.89	*	676	620	6.48	
PCB-136	*	*	n	NotFnd	0.92	*	676	620	6.25	
PCB-148	*	*	n	NotFnd	0.64	*	676	620	8.93	
PCB-154	*	*	n	NotFnd	0.80	*	676	620	7.21	
13C-PCB-155	2.39e+07	1.25	y	34:14	1.12	10800				108
13C-PCB-111	2.22e+07	1.56	y	36:20	1.14	9880				98.8
13C-PCB-101	1.97e+07	1.58	y	34:41	-	42.9				
PCB-84	*	*	n	NotFnd	0.78	*	724	621	11.2	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.78	*	724	621	11.2	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.75	*	724	621	11.6	
PCB-90	*	*	n	NotFnd	0.87	*	724	621	10.0	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.87	*	724	621	10.0	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.97	*	724	621	9.06	
PCB-99	*	*	n	NotFnd	0.99	*	724	621	8.82	
PCB-119	*	*	n	NotFnd	1.14	*	724	621	7.68	
PCB-83	*	*	n	NotFnd	0.87	*	724	621	10.1	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.87	*	724	621	10.1	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.04	*	724	621	8.38	
PCB-97	*	*	n	NotFnd	0.96	*	724	621	9.16	
PCB-86	*	*	n	NotFnd	0.80	*	724	621	11.0	
PCB-125	*	*	n	NotFnd	1.00	*	724	621	8.72	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	1.00	*	724	621	8.72	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	1.00	*	724	621	8.72	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.23	*	724	621	7.11	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.23	*	724	621	7.11	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.94	*	724	621	9.27	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.94	*	724	621	9.27	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.20	*	724	621	7.32	
PCB-110	*	*	n	NotFnd	1.14	*	724	621	7.71	
PCB-82	*	*	n	NotFnd	0.67	*	724	621	13.0	
PCB-124	*	*	n	NotFnd	0.99	*	532	456	6.49	
PCB-108	*	*	n	NotFnd	0.97	*	532	456	6.64	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	0.97	*	532	456	6.64	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.12	*	532	456	5.58	
13C-PCB-123	1.73e+07	1.58	y	38:23	1.00	10200				102
PCB-118	*	*	n	NotFnd	0.92	*	532	456	7.26	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	0.92	*	532	456	7.26	Co-elute PCB 118
13C-PCB-118	1.88e+07	1.61	y	38:32	1.05	10500				105
PCB-114	*	*	n	NotFnd	1.03	*	532	456	5.97	
13C-PCB-114	1.79e+07	1.57	y	39:10	1.02	10300				103
PCB-122	*	*	n	NotFnd	0.97	*	532	456	6.65	
PCB-105	*	*	n	NotFnd	1.00	*	532	456	6.61	
13C-PCB-105	1.74e+07	1.58	y	39:60	1.02	10000				100

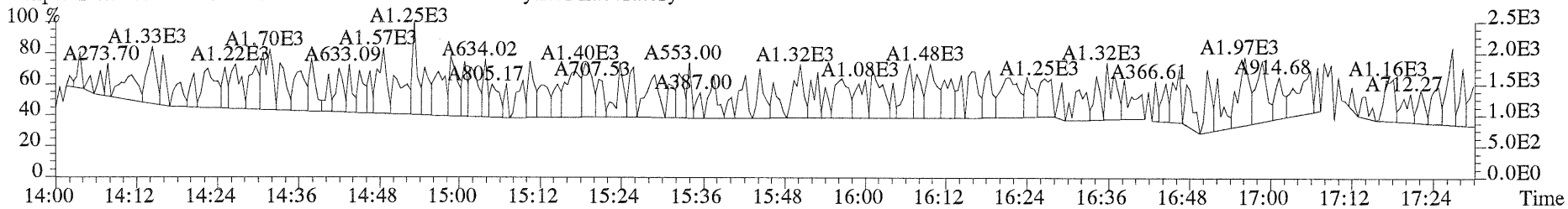
PCB-127	*	*	n	NotFnd	0.93	*		532	456	6.91	
PCB-126	*	*	n	NotFnd	1.00	*		532	456	7.43	
13C-PCB-126	1.63e+07	1.59	y	42:08	0.95	10000					100
PCB-151	*	*	n	NotFnd	0.70	*		612	564	10.3	
PCB-135	*	*	n	NotFnd	0.70	*		612	564	10.3	
PCB-144	*	*	n	NotFnd	0.71	*		612	564	10.2	
PCB-147	*	*	n	NotFnd	0.78	*		612	564	9.32	
PCB-139	*	*	n	NotFnd	0.76	*		612	564	9.48	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	0.76	*		612	564	9.48	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.75	*		612	564	9.61	
PCB-143	*	*	n	NotFnd	0.70	*		612	564	10.4	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.70	*		612	564	10.4	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.70	*		612	564	10.3	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.70	*		612	564	10.3	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.63	*		612	564	11.5	
PCB-165	*	*	n	NotFnd	0.84	*		612	564	8.58	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	0.84	*		612	564	8.58	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	0.77	*		612	564	9.36	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	0.77	*		612	564	9.36	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	0.86	*		612	564	8.37	
PCB-168	*	*	n	NotFnd	0.92	*		612	564	7.88	
PCB-141	*	*	n	NotFnd	0.72	*		612	564	10.0	
PCB-137	*	*	n	NotFnd	0.63	*		612	564	11.4	
PCB-130	*	*	n	NotFnd	0.69	*		612	564	10.4	
PCB-138	*	*	n	NotFnd	0.94	*		612	564	7.67	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	0.94	*		612	564	7.67	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	0.94	*		612	564	7.67	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	0.95	*		612	564	7.64	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	0.95	*		612	564	7.64	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.59	*		612	564	12.3	
PCB-166	*	*	n	NotFnd	0.90	*		612	564	8.04	
PCB-159	*	*	n	NotFnd	0.97	*		612	564	7.48	
PCB-128	*	*	n	NotFnd	0.79	*		612	564	9.19	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	0.79	*		612	564	9.19	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	0.88	*		612	564	8.40	
13C-PCB-167	1.98e+07	1.26	y	43:29	1.14	10200					102
PCB-156	*	*	n	NotFnd	0.93	*		612	564	7.64	
13C-PCB-156	1.90e+07	1.25	y	44:43	1.12	9940					99.4
PCB-157	*	*	n	NotFnd	0.89	*		612	564	8.49	
13C-PCB-157	2.01e+07	1.25	y	44:59	1.14	10300					103
PCB-169	*	*	n	NotFnd	0.88	*		612	564	7.80	
13C-PCB-169	1.76e+07	1.27	y	46:51	1.07	9700					97.0

FAL ID: 03955-001-0001-MB Filename: 06JAN17Z Sam:3 Acquired: 6-JAN-17 10:10:54 ICal: DAILY209FAL4-1-6-17
Client ID: Method Blank ConCal: ST01061 7Z1 EndCal: ST01061 7Z2
Results: 10322 GC Column: DB1 Amount: 1.000

PCB-188	*	*	n	NotFnd	1.00	*		764	560	6.33	
13C-PCB-188	2.21e+07	1.07	y	39:45	1.26	10300					103
PCB-184	*	*	n	NotFnd	1.08	*		764	560	5.90	
PCB-179	*	*	n	NotFnd	1.04	*		764	560	6.12	
PCB-176	*	*	n	NotFnd	1.01	*		764	560	6.30	
PCB-186	*	*	n	NotFnd	1.00	*		764	560	6.39	
PCB-178	*	*	n	NotFnd	0.74	*		764	560	8.68	
PCB-175	*	*	n	NotFnd	0.78	*		764	560	8.17	
PCB-187	*	*	n	NotFnd	0.83	*		764	560	7.72	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.83	*		764	560	7.72	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.82	*		764	560	7.76	
PCB-185	*	*	n	NotFnd	0.76	*		764	560	8.38	
PCB-174	*	*	n	NotFnd	0.74	*		764	560	8.61	
PCB-181	*	*	n	NotFnd	0.79	*		764	560	8.03	
PCB-177	*	*	n	NotFnd	0.71	*		764	560	8.96	
PCB-171	*	*	n	NotFnd	0.74	*		764	560	8.62	
PCB-173	*	*	n	NotFnd	0.68	*		764	560	9.34	
PCB-172	*	*	n	NotFnd	0.71	*		764	560	8.93	
PCB-192	*	*	n	NotFnd	0.92	*		764	560	6.93	
PCB-180	*	*	n	NotFnd	0.92	*		764	560	6.94	
PCB-193	*	*	n	NotFnd	1.01	*		764	560	6.30	
PCB-191	*	*	n	NotFnd	0.97	*		764	560	6.60	
PCB-170	*	*	n	NotFnd	0.67	*		764	560	9.58	
PCB-190	*	*	n	NotFnd	0.93	*		764	560	6.89	
PCB-189	*	*	n	NotFnd	1.00	*		764	560	6.40	
13C-PCB-189	1.86e+07	1.06	y	48:32	1.07	10200					102
PCB-202	*	*	n	NotFnd	0.83	*		472	492	5.84	
PCB-201	*	*	n	NotFnd	0.84	*		472	492	5.74	
PCB-204	*	*	n	NotFnd	0.87	*		472	492	5.56	
PCB-197	*	*	n	NotFnd	0.89	*		472	492	5.43	
PCB-200	*	*	n	NotFnd	0.84	*		472	492	5.75	
PCB-198	*	*	n	NotFnd	0.61	*		472	492	7.91	
PCB-199	*	*	n	NotFnd	0.63	*		472	492	7.76	
PCB-203	*	*	n	NotFnd	0.67	*		472	492	7.26	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.67	*		472	492	7.26	Co-elute PCB 203
13C-PCB-202	2.06e+07	0.89	y	44:53	1.12	10800					108
13C-PCB-178	1.48e+07	1.06	y	42:23	0.89	9750					97.5
13C-PCB-138	1.70e+07	1.26	y	41:37	-	41.1					
PCB-195	*	*	n	NotFnd	0.72	*		608	611	9.81	
PCB-194	*	*	n	NotFnd	0.77	*		608	611	9.17	
PCB-205	*	*	n	NotFnd	0.99	*		608	611	7.13	
13C-PCB-205	1.42e+07	0.91	y	50:13	1.22	10200					102
PCB-208	*	*	n	NotFnd	0.89	*		420	384	4.20	
13C-PCB-208	1.64e+07	0.79	y	49:15	1.31	11000					110
PCB-207	*	*	n	NotFnd	0.98	*		420	384	4.93	
PCB-206	*	*	n	NotFnd	0.92	*		420	384	6.93	
13C-PCB-206	1.15e+07	0.80	y	51:27	0.97	10500					105
PCB-209	*	*	n	NotFnd	0.96	*		499	399	4.96	
13C-PCB-209	1.77e+07	1.20	y	52:43	1.46	10600					106
13C-PCB-194	1.14e+07	0.90	y	49:59	-	40.0					

Analyst: _____ Date: 1/10/17

File:06JAN17Z #1-783 Acq: 6-JAN-2017 10:10:54 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:03955-001-0001-MB File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-783 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
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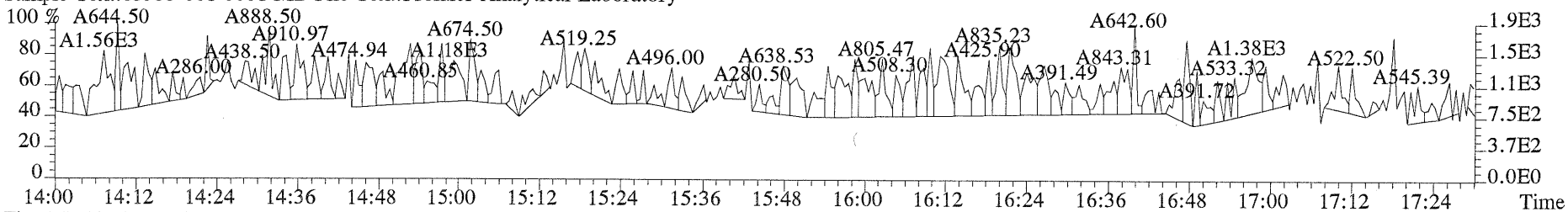

File:06JAN17Z #1-783 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
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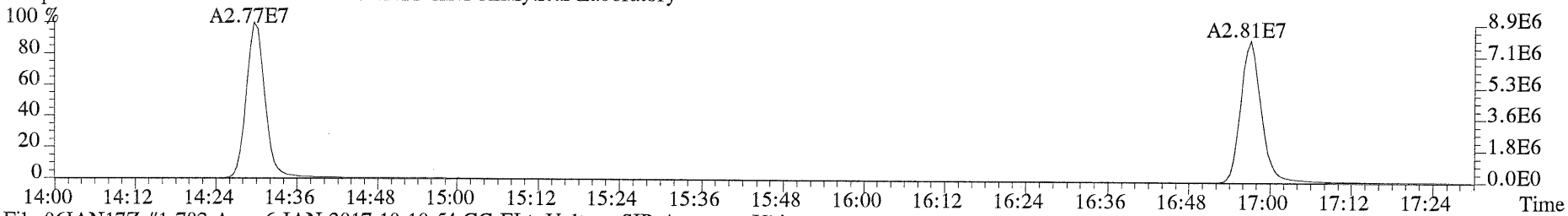

File:06JAN17Z #1-783 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
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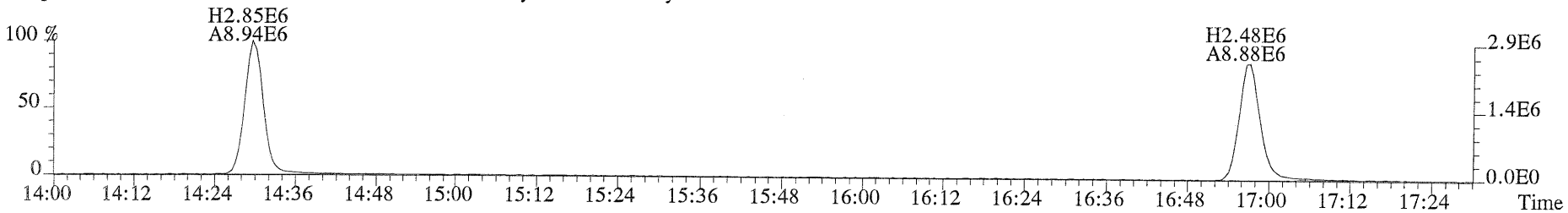
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-509 Acq: 6-JAN-2017 10:10:54 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
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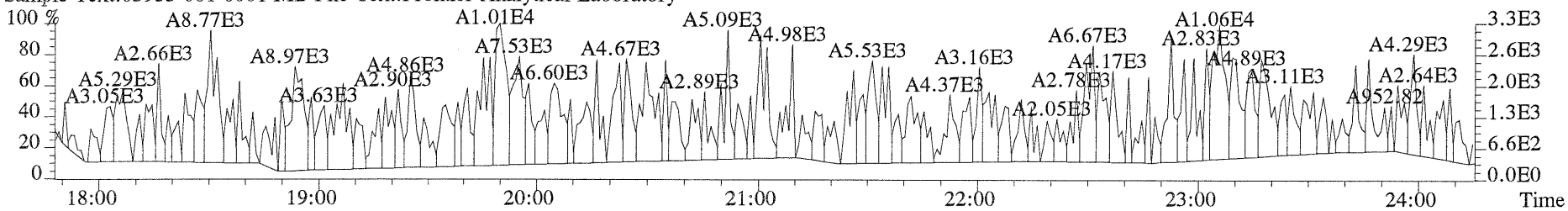

File:06JAN17Z #1-509 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
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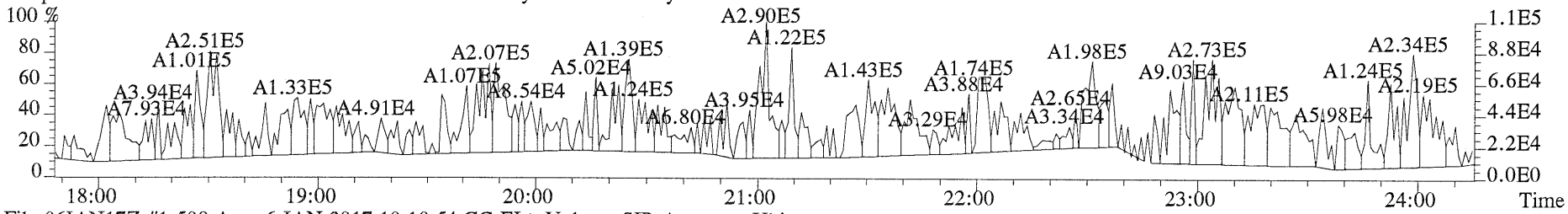
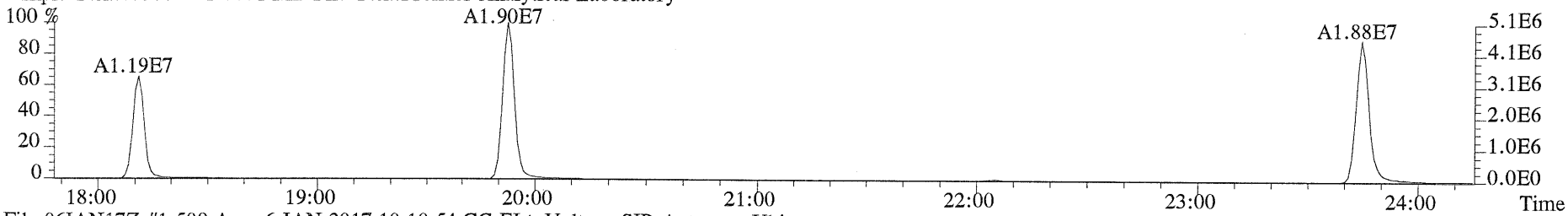
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-509 Acq: 6-JAN-2017 10:10:54 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:03955-001-0001-MB File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-509 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
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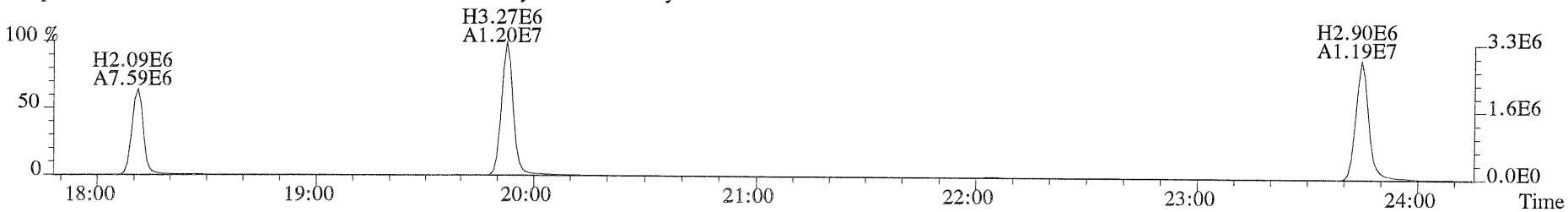
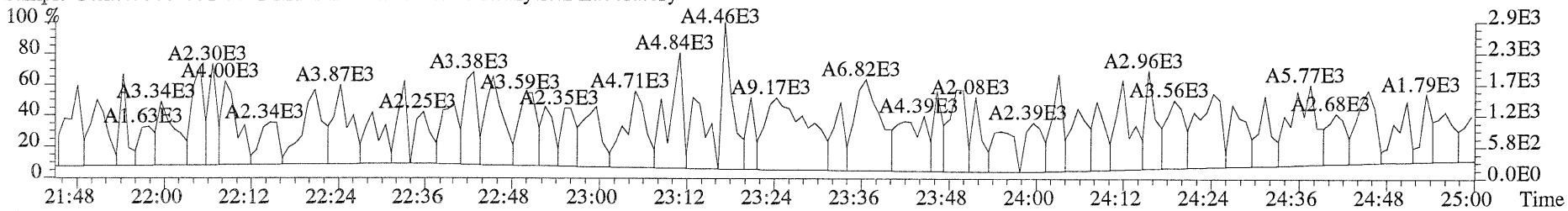
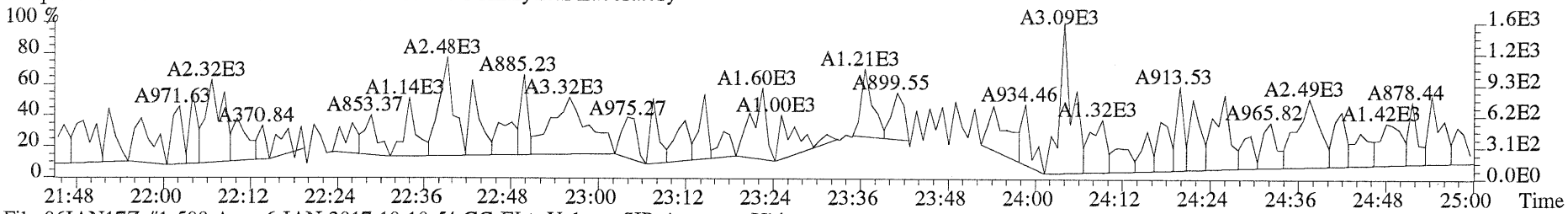
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



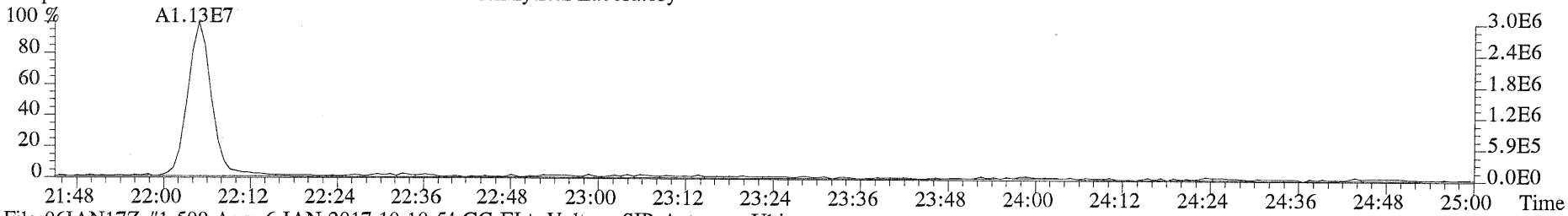
File:06JAN17Z #1-509 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



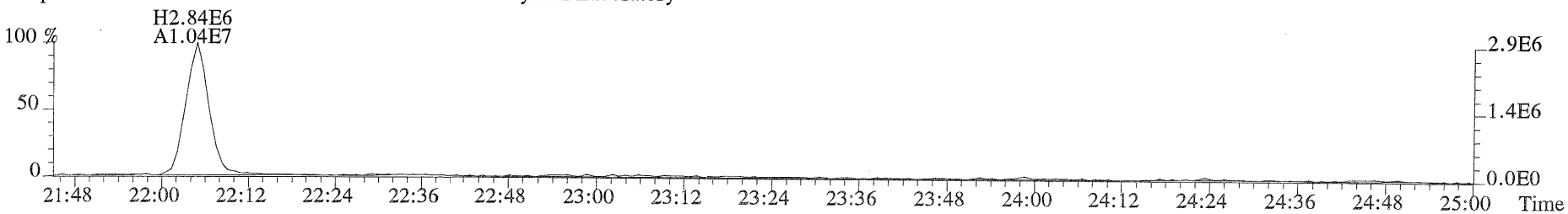
File:06JAN17Z #1-509 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-509 Acq: 6-JAN-2017 10:10:54 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:03955-001-0001-MB File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-509 Acq: 6-JAN-2017 10:10:54 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:03955-001-0001-MB File Text:Frontier Analytical Laboratory



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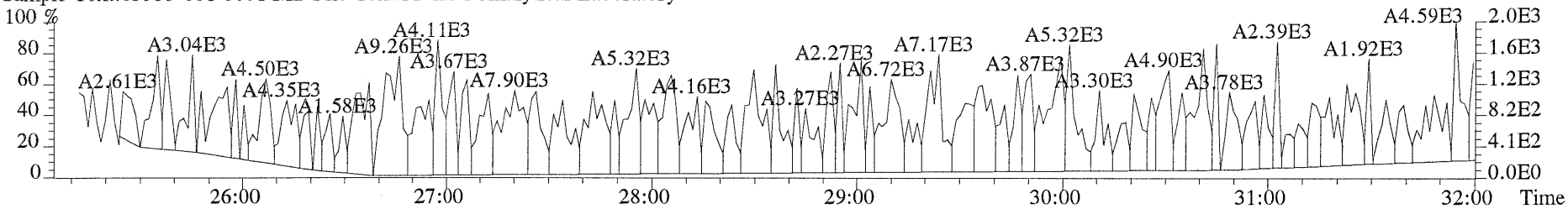
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



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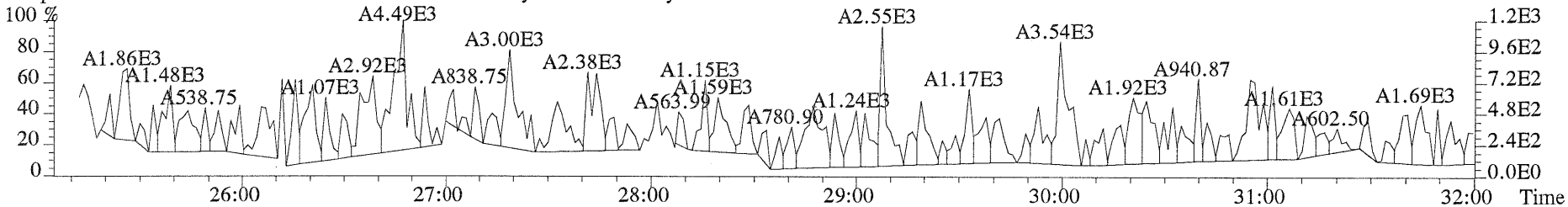
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-407 Acq: 6-JAN-2017 10:10:54 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
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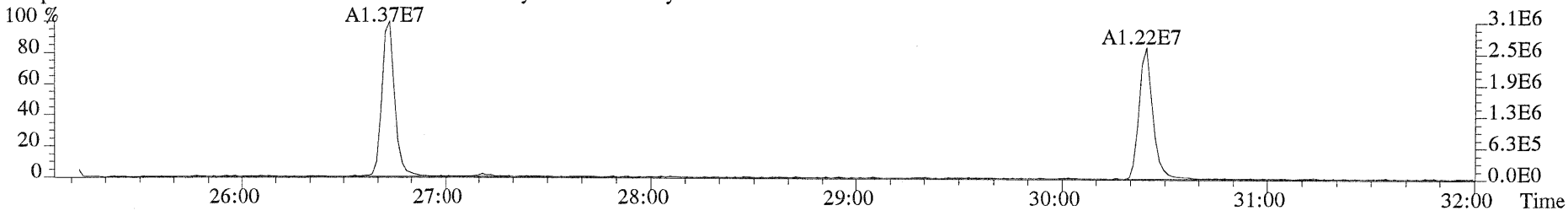

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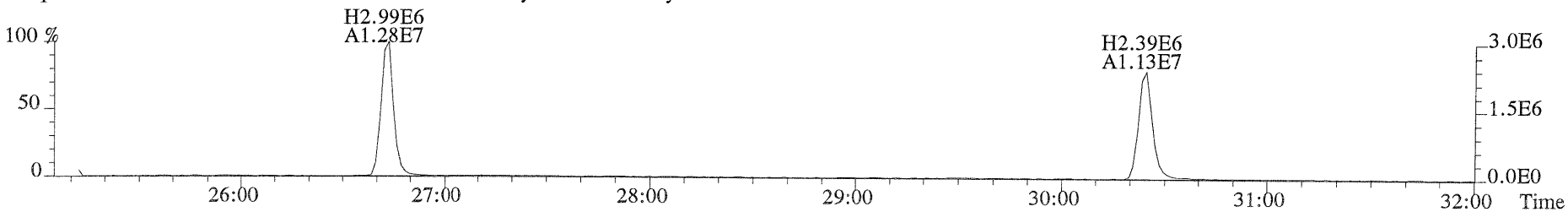

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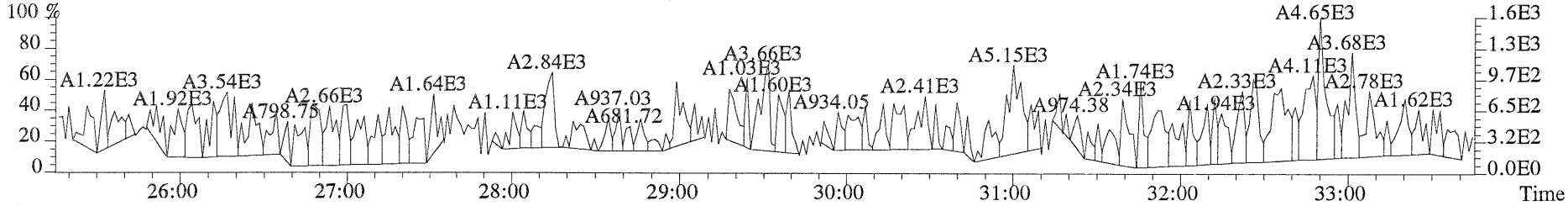
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



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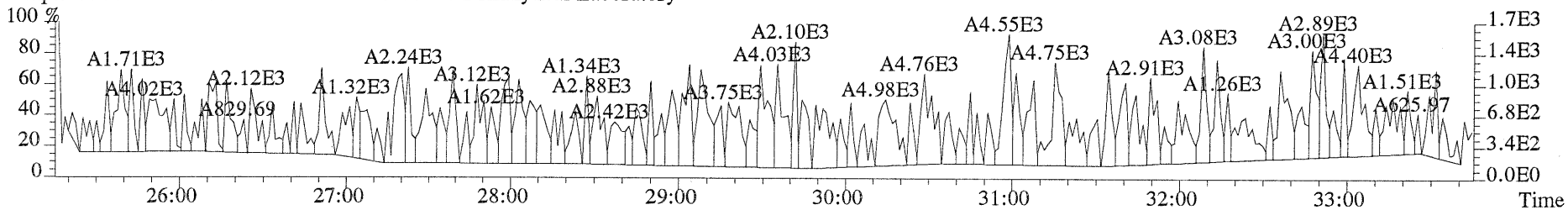
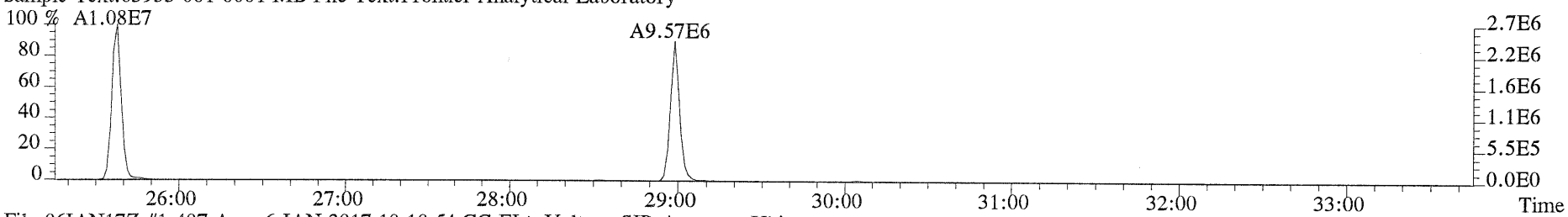
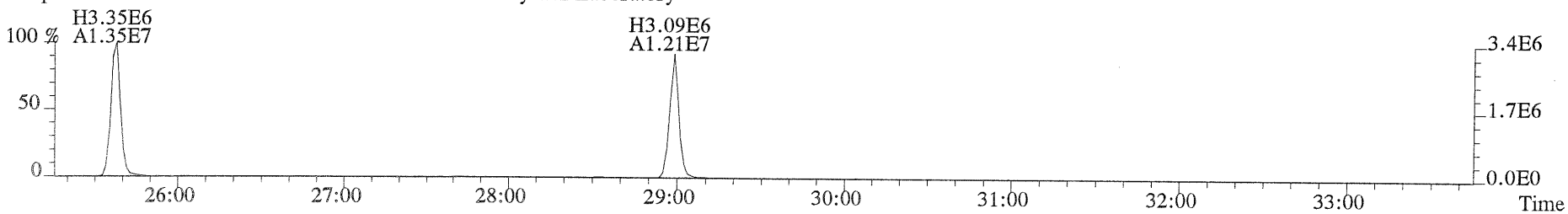


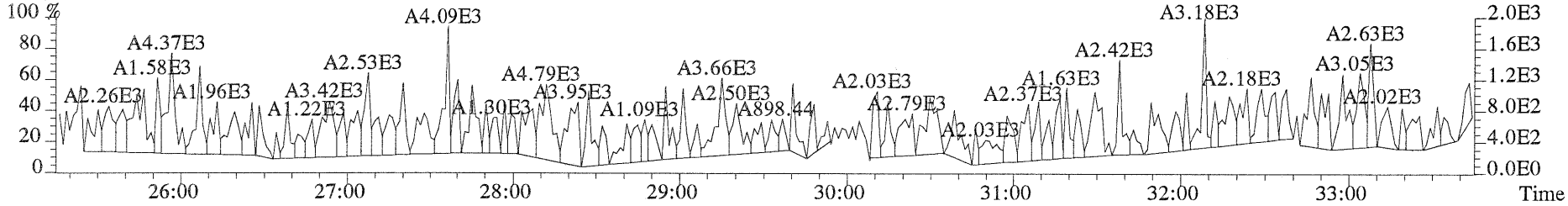
File:06JAN17Z #1-407 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



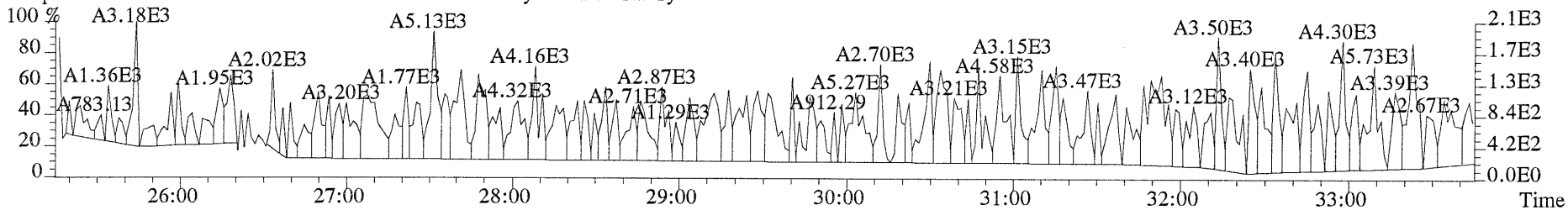
File:06JAN17Z #1-407 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



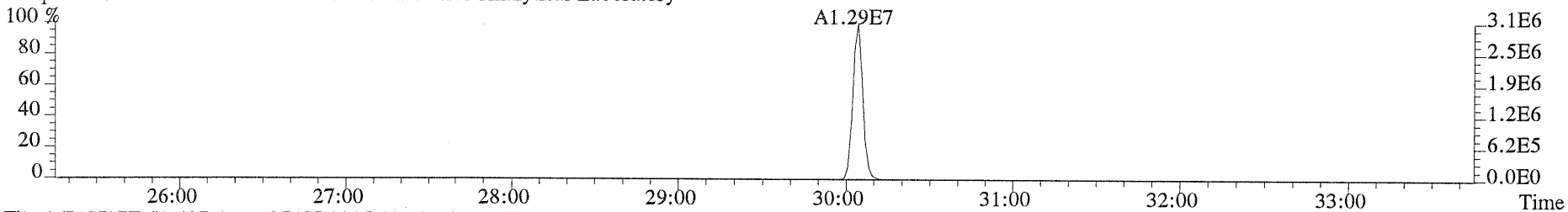
File:06JAN17Z #1-407 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



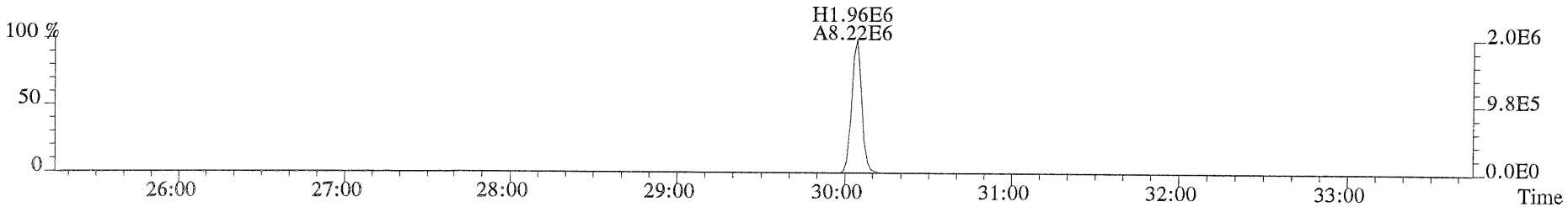
File:06JAN17Z #1-407 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



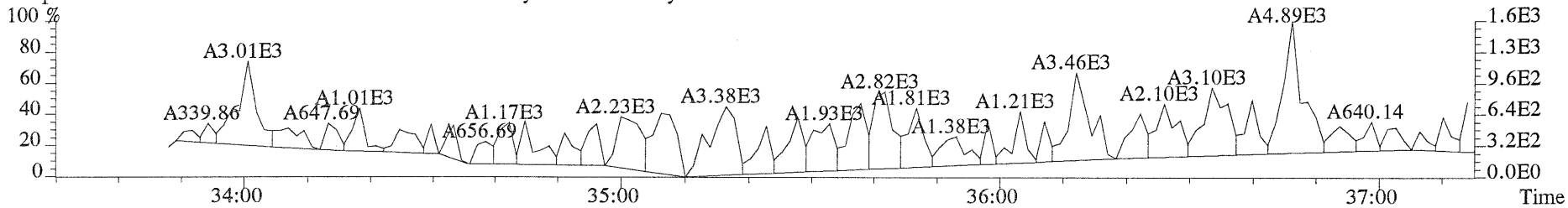
File:06JAN17Z #1-407 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-407 Acq: 6-JAN-2017 10:10:54 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:03955-001-0001-MB File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-181 Acq: 6-JAN-2017 10:10:54 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:03955-001-0001-MB File Text:Frontier Analytical Laboratory



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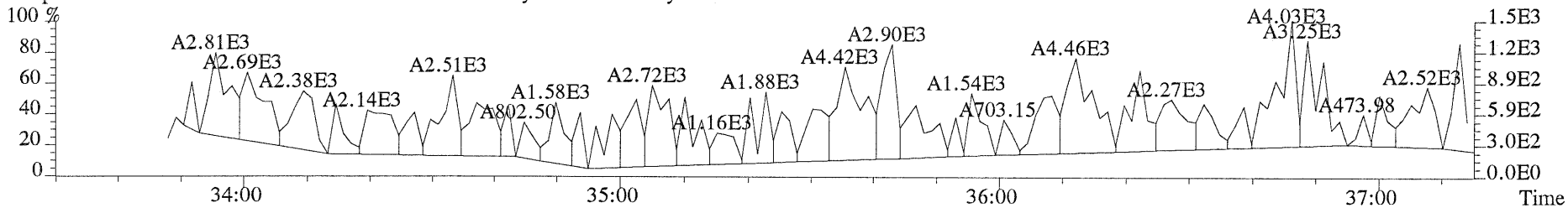
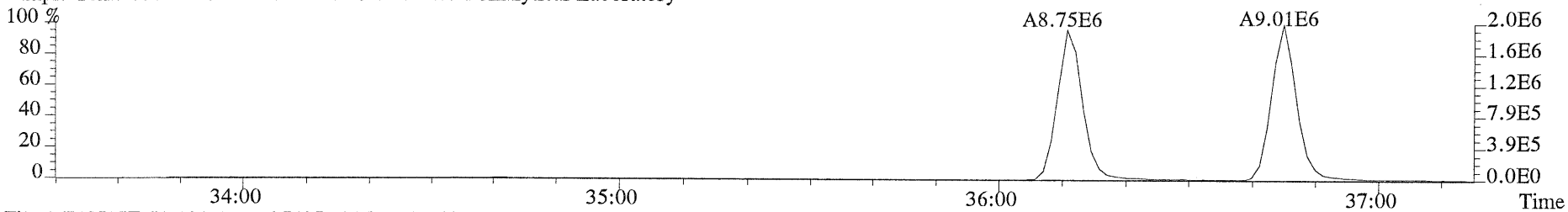
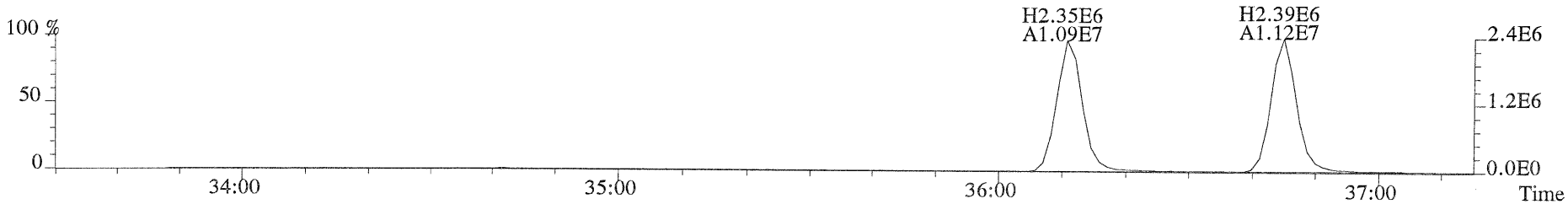
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



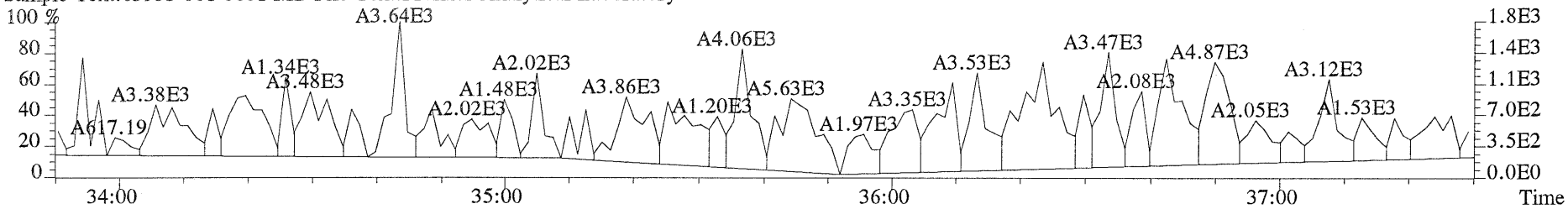
File:06JAN17Z #1-181 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



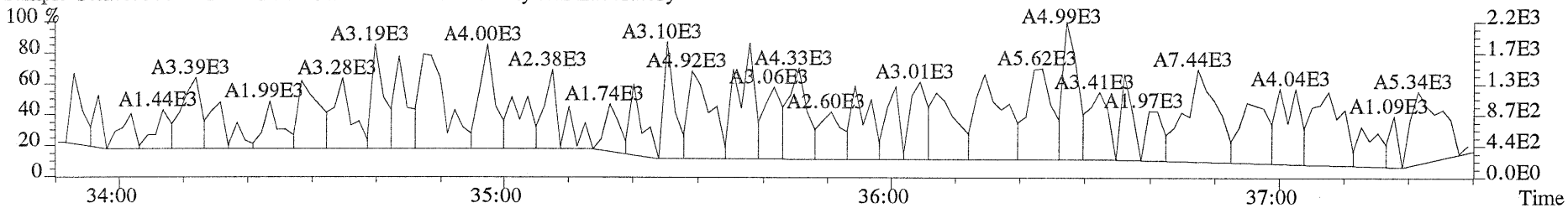
File:06JAN17Z #1-181 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



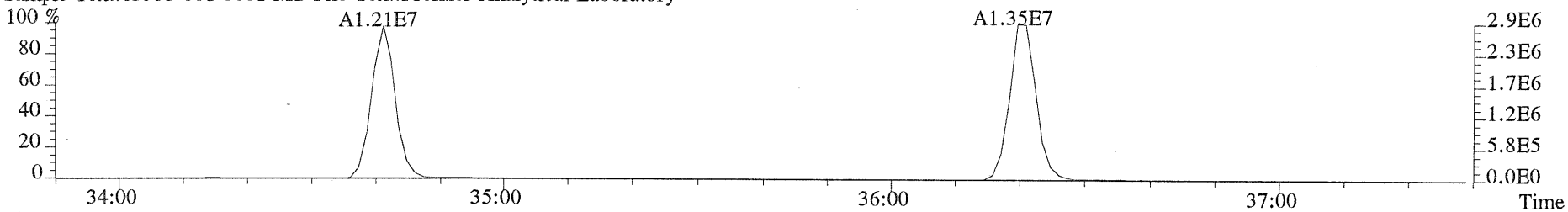
File:06JAN17Z #1-181 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-181 Acq: 6-JAN-2017 10:10:54 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:03955-001-0001-MB File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-181 Acq: 6-JAN-2017 10:10:54 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:03955-001-0001-MB File Text:Frontier Analytical Laboratory



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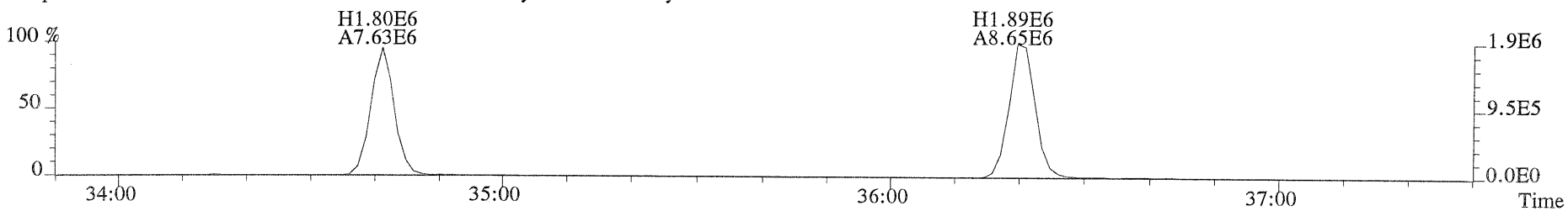
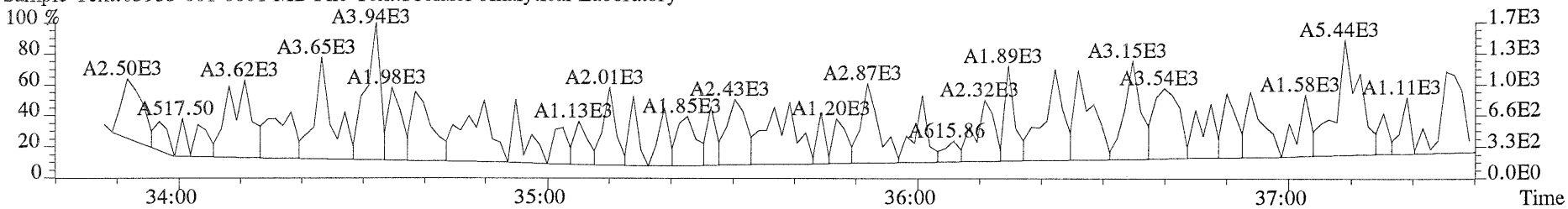
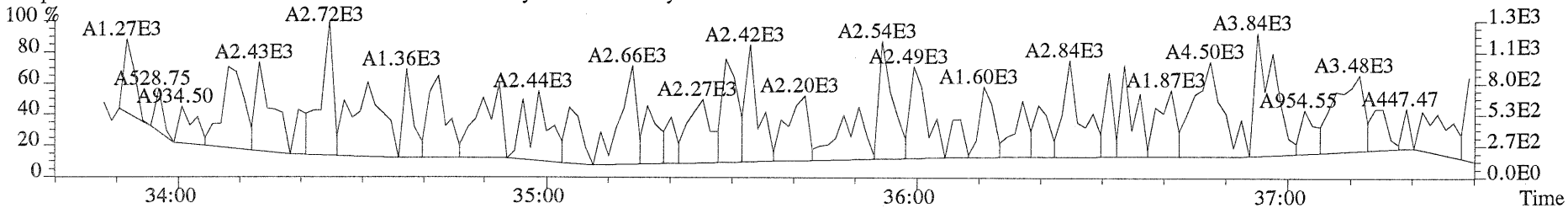
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



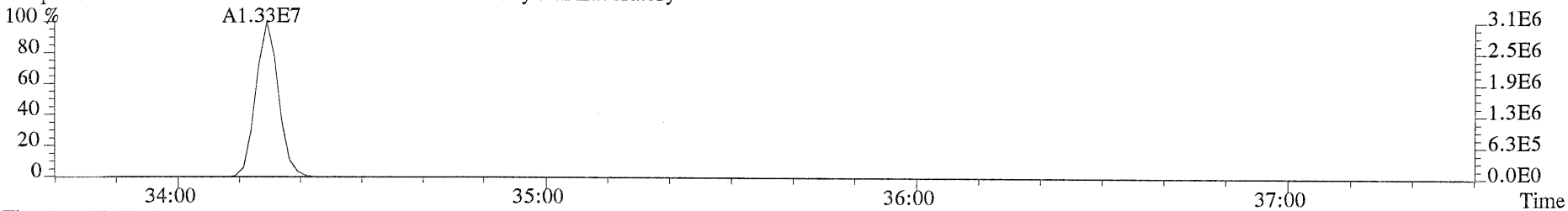
File:06JAN17Z #1-181 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



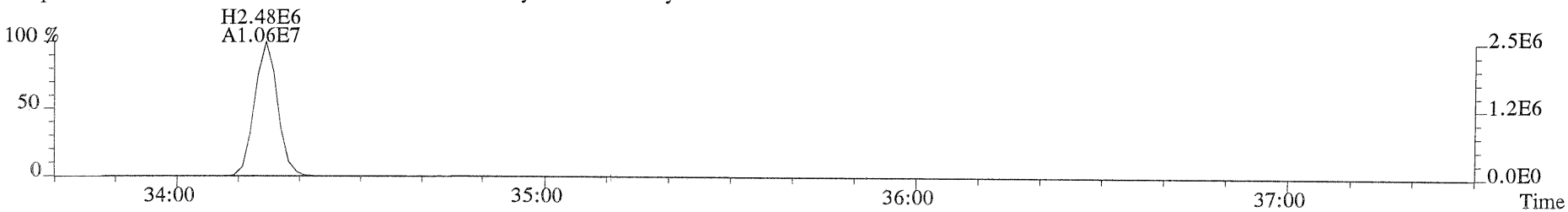
File:06JAN17Z #1-181 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



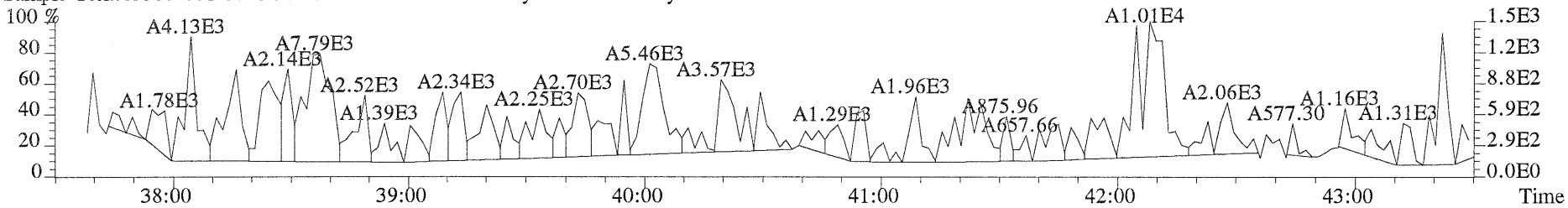
File:06JAN17Z #1-181 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



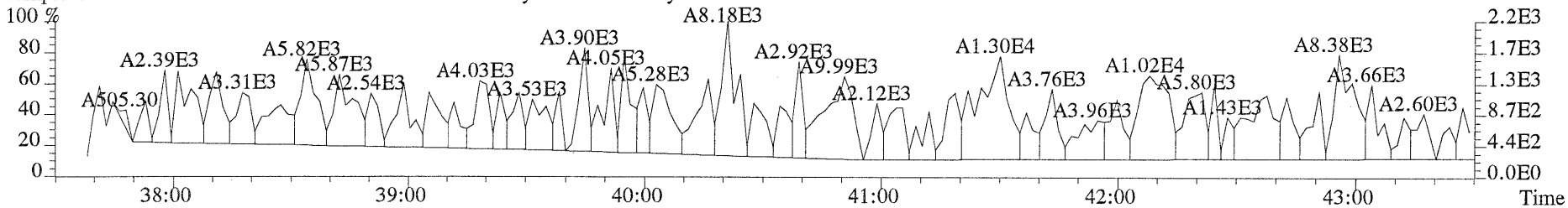
File:06JAN17Z #1-181 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



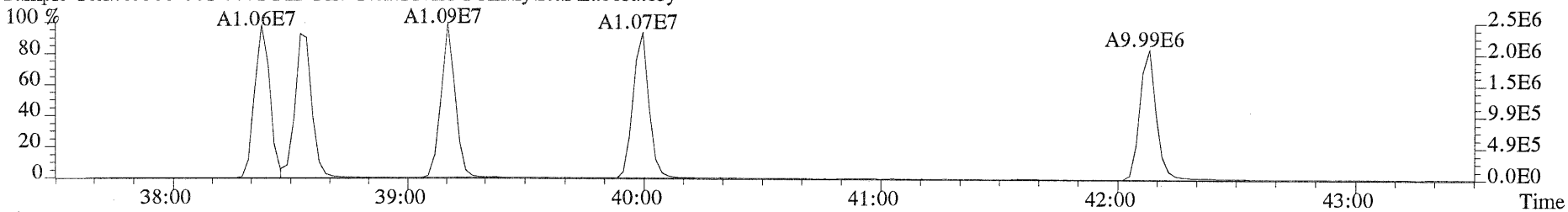
File:06JAN17Z #1-413 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



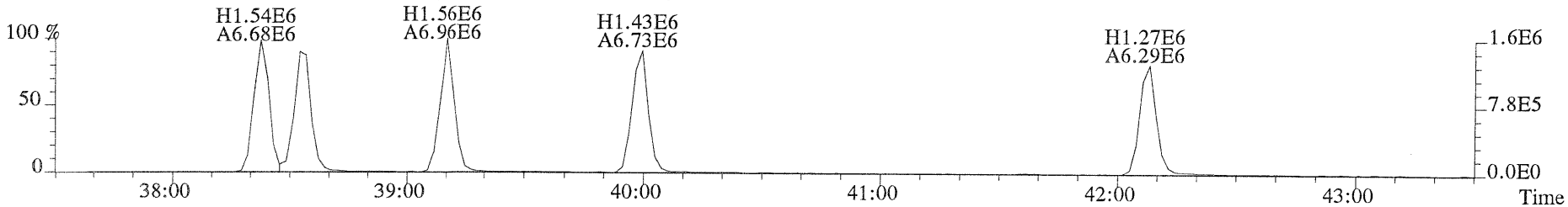
File:06JAN17Z #1-413 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



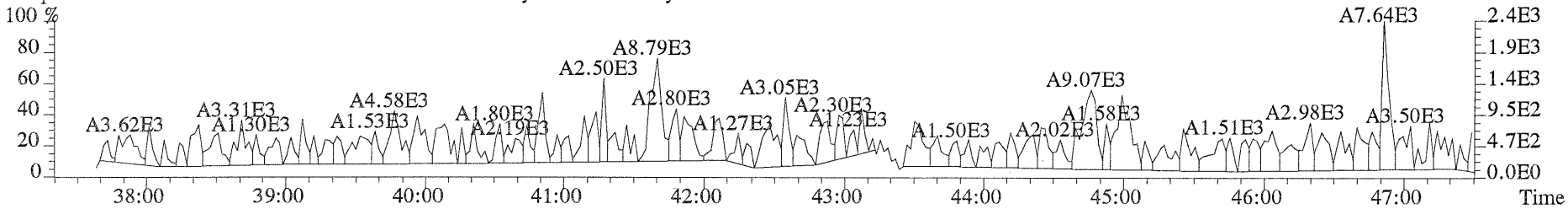
File:06JAN17Z #1-413 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



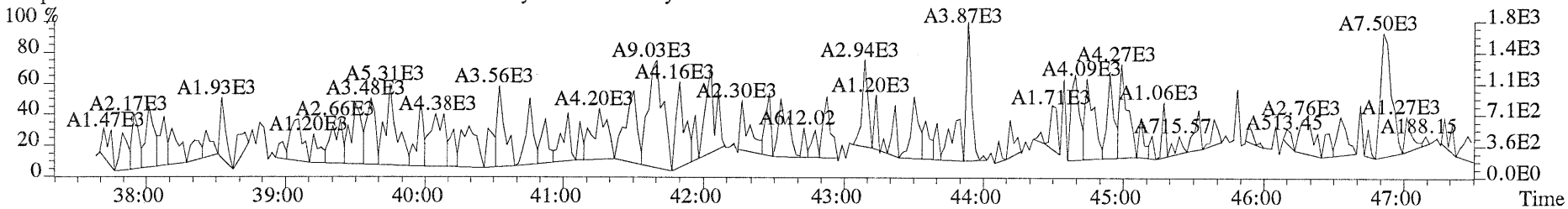
File:06JAN17Z #1-413 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



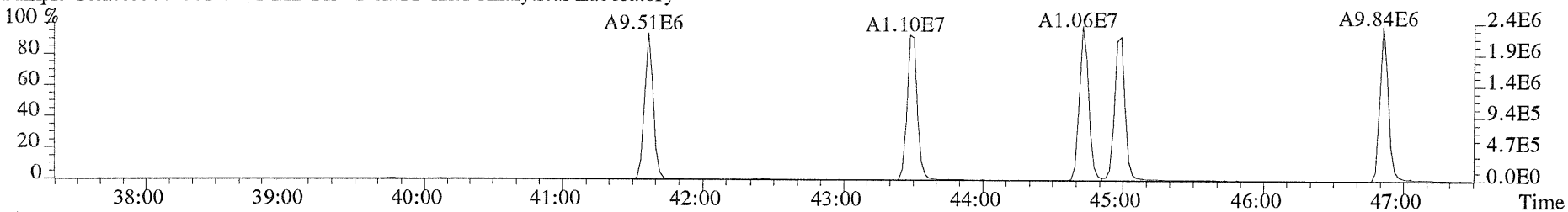
File:06JAN17Z #1-413 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



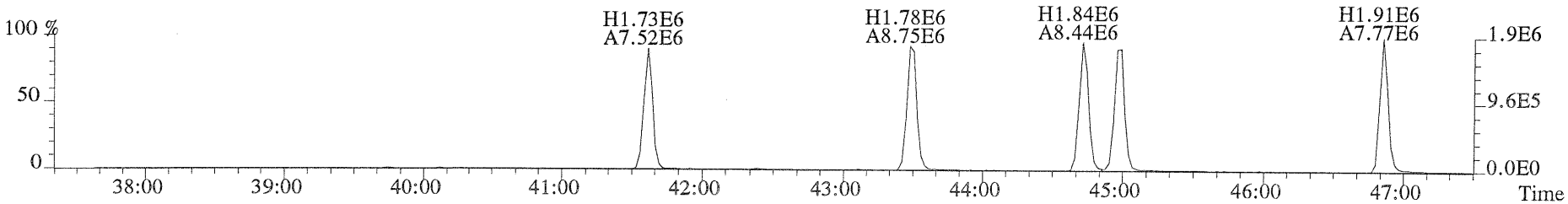
File:06JAN17Z #1-413 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



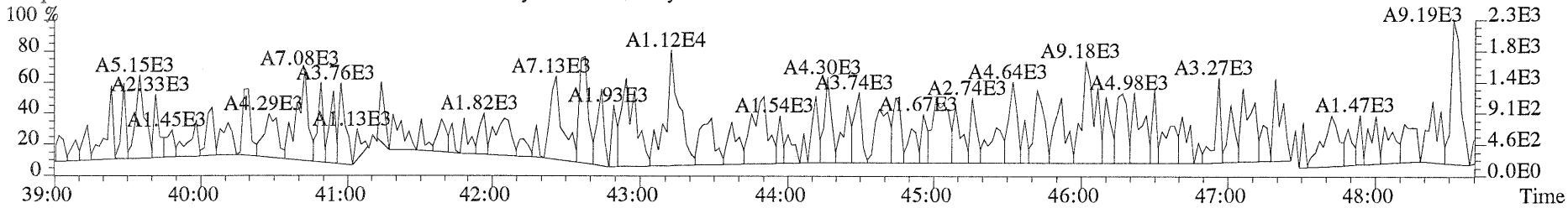
File:06JAN17Z #1-413 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



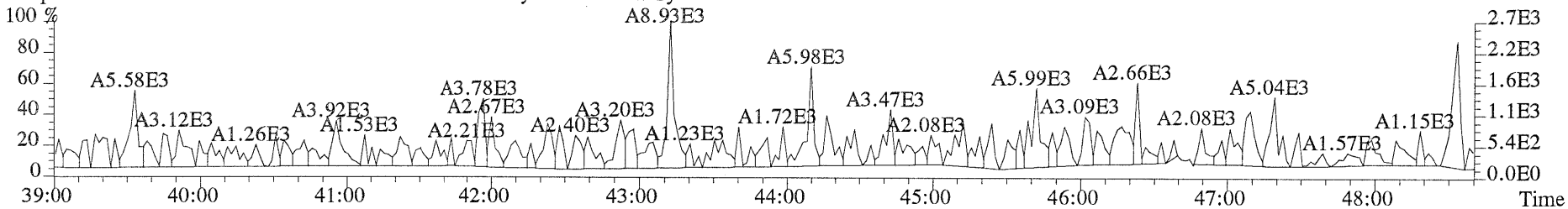
File:06JAN17Z #1-413 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



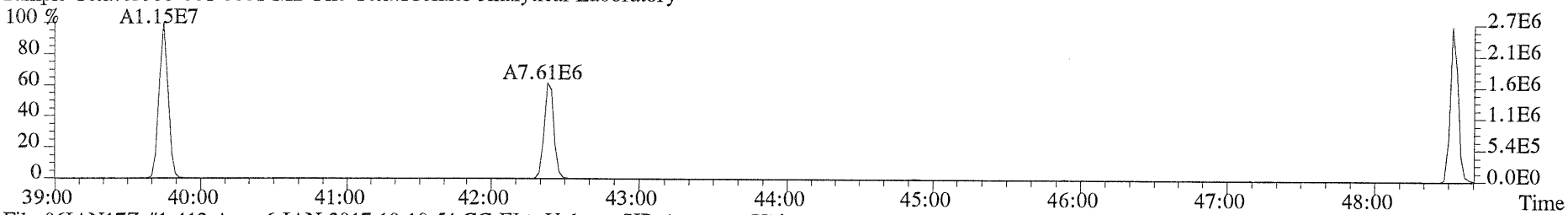
File:06JAN17Z #1-413 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



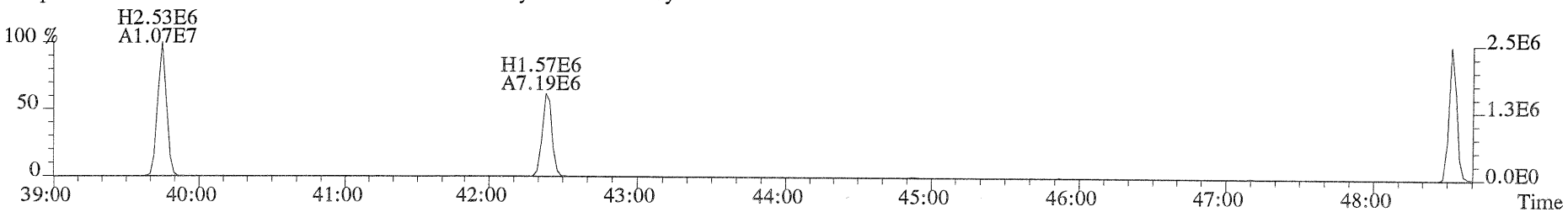
File:06JAN17Z #1-413 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



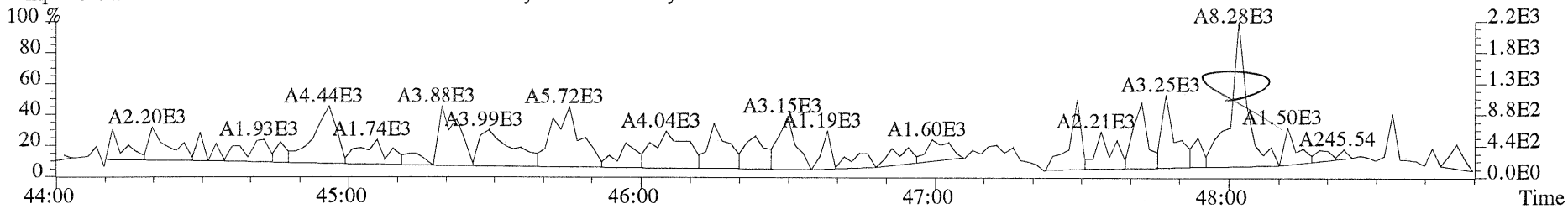
File:06JAN17Z #1-413 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



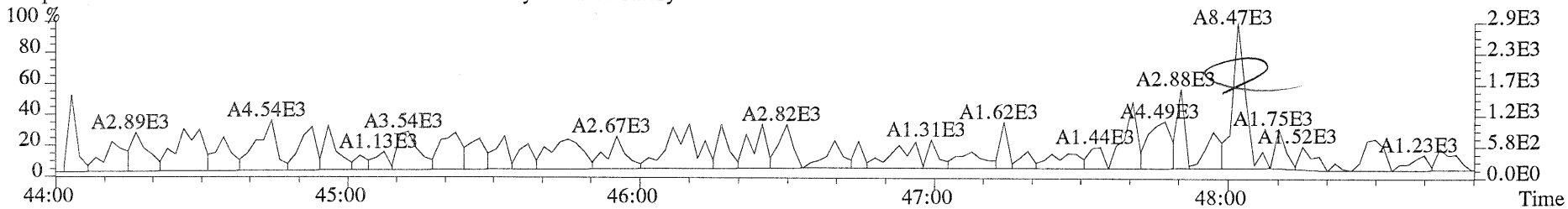
File:06JAN17Z #1-413 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



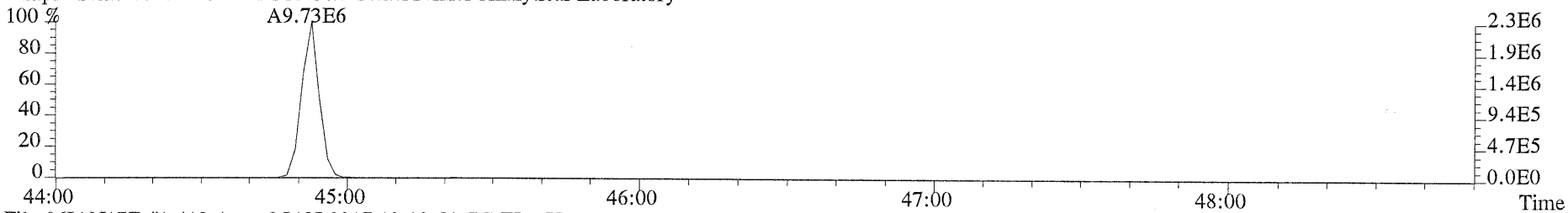
File:06JAN17Z #1-413 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



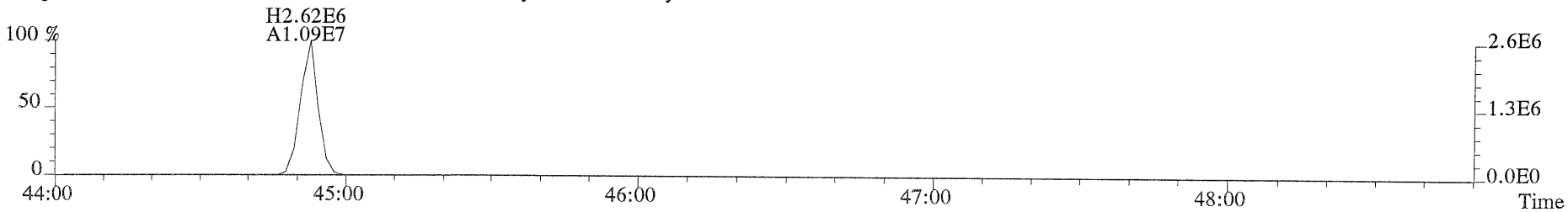
File:06JAN17Z #1-413 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



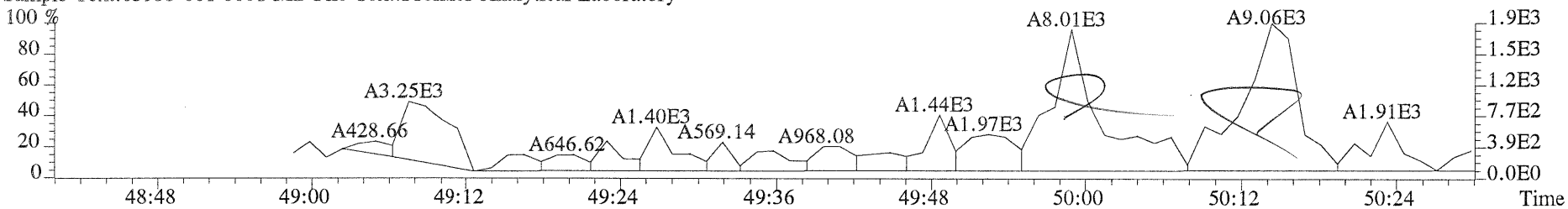
File:06JAN17Z #1-413 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



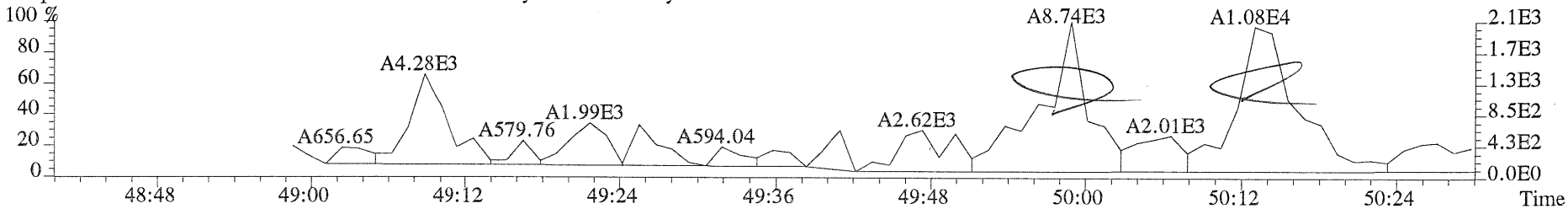
File:06JAN17Z #1-413 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



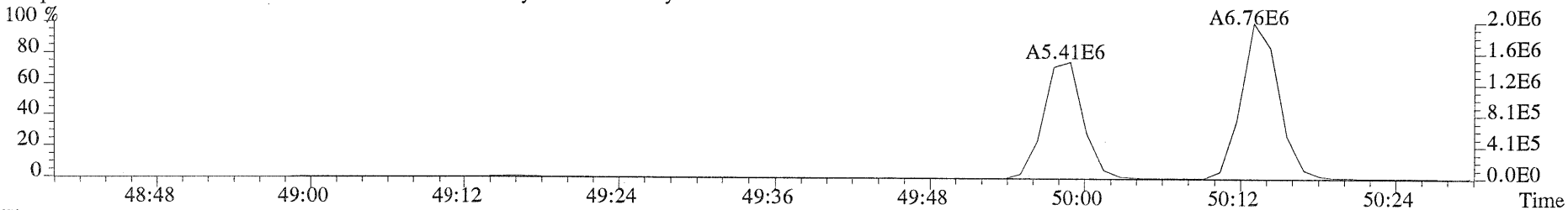
File:06JAN17Z #1-306 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



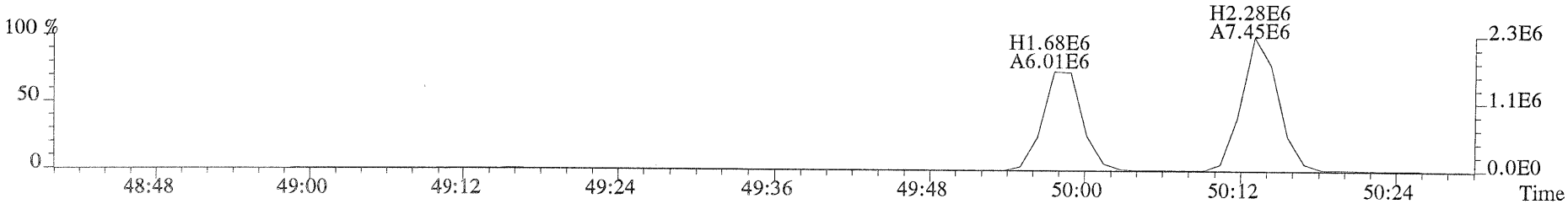
File:06JAN17Z #1-306 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



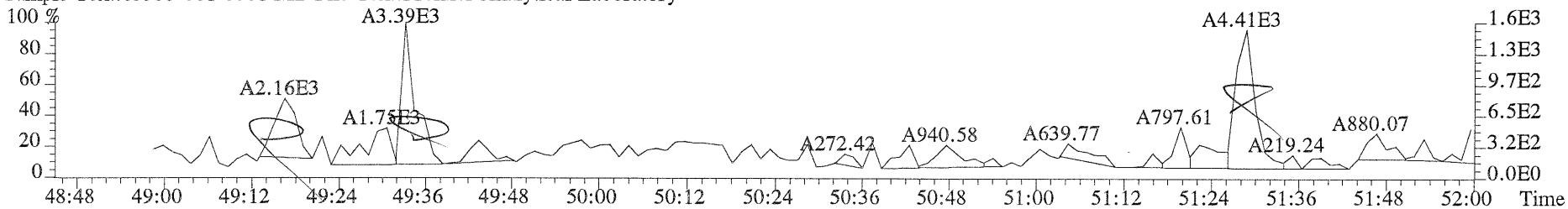
File:06JAN17Z #1-306 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



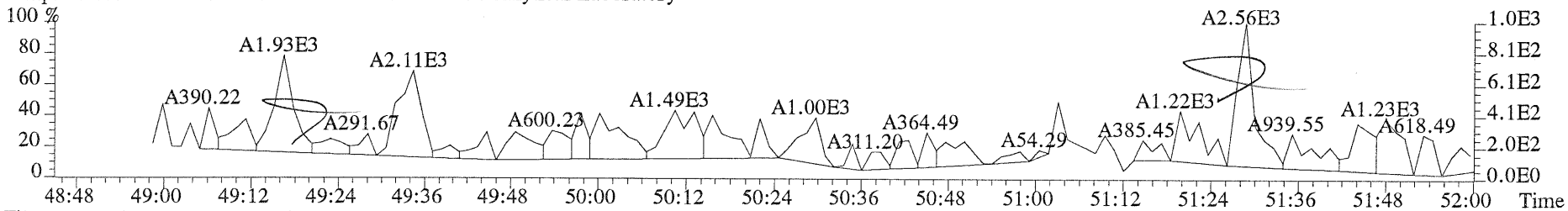
File:06JAN17Z #1-306 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



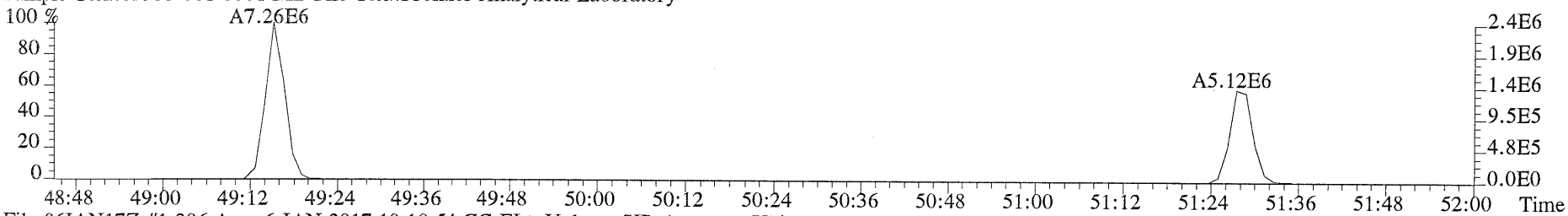
File:06JAN17Z #1-306 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



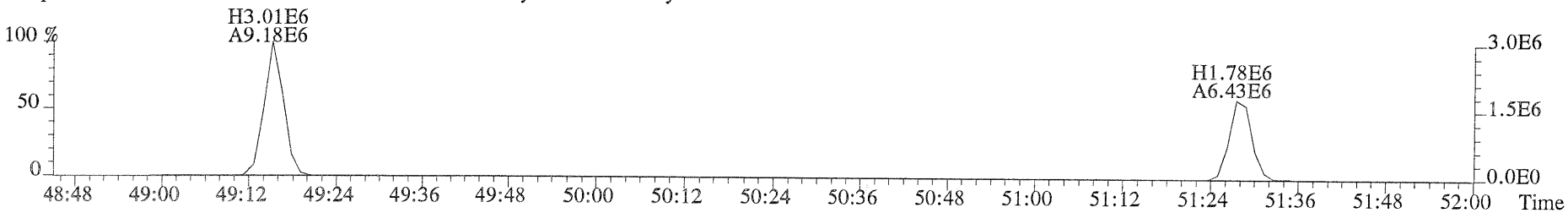
File:06JAN17Z #1-306 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



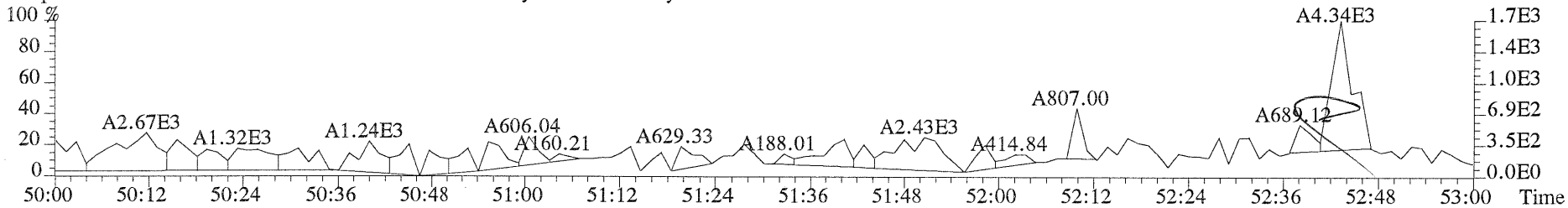
File:06JAN17Z #1-306 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



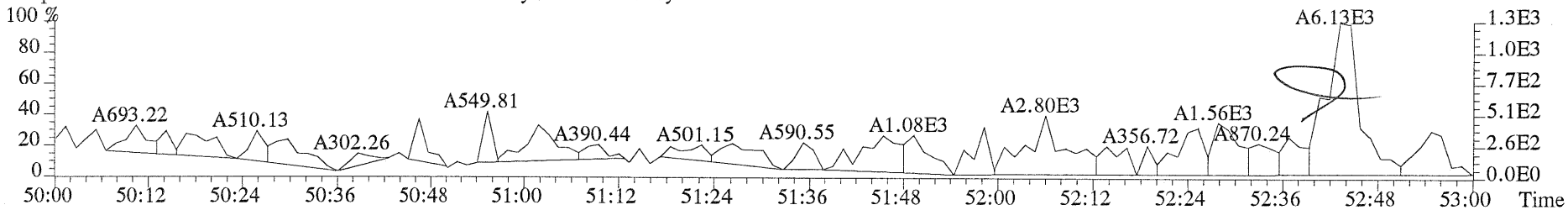
File:06JAN17Z #1-306 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



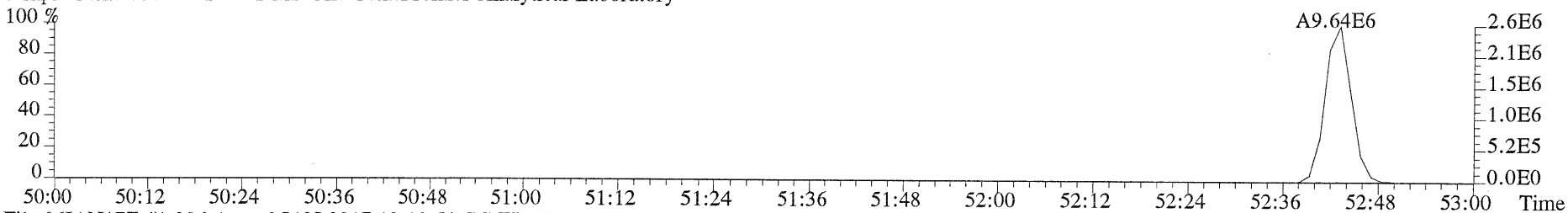
File:06JAN17Z #1-306 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



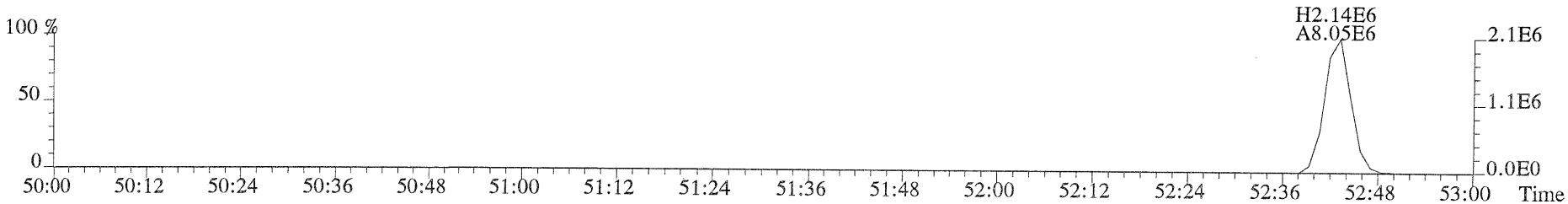
File:06JAN17Z #1-306 Acq: 6-JAN-2017 10:10:54 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-MB File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-306 Acq: 6-JAN-2017 10:10:54 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:03955-001-0001-MB File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-306 Acq: 6-JAN-2017 10:10:54 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:03955-001-0001-MB File Text:Frontier Analytical Laboratory



03955-001-0001-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: 06JAN17Z Sam:4

Ext. Date: 12/15/16 Shift: Day Analysis Date: 6-JAN-17 11:09:13

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	52.3	30.0 - 67.5
PCB-3	50	53.3	30.0 - 67.5
PCB-4	50	49.7	30.0 - 67.5
PCB-15	50	52.5	30.0 - 67.5
PCB-19	50	52.6	30.0 - 67.5
PCB-37	50	50.1	30.0 - 67.5
PCB-54	50	52.8	30.0 - 67.5
PCB-77	50	52.8	30.0 - 67.5
PCB-81	50	51.5	30.0 - 67.5
PCB-104	50	51.6	30.0 - 67.5
PCB-105	50	49.7	30.0 - 67.5
PCB-114	50	49.9	30.0 - 67.5
PCB-118	50	55.6	30.0 - 67.5
PCB-123	50	45.5	30.0 - 67.5
PCB-126	50	49.2	30.0 - 67.5
PCB-155	50	53.1	30.0 - 67.5
PCB-156	50	50.6	30.0 - 67.5
PCB-157	50	51.9	30.0 - 67.5
PCB-167	50	53.9	30.0 - 67.5
PCB-169	50	53.3	30.0 - 67.5
PCB-188	50	54.5	30.0 - 67.5
PCB-189	50	51.8	30.0 - 67.5
PCB-202	50	55.8	30.0 - 67.5
PCB-205	50	51.5	30.0 - 67.5
PCB-206	50	52.0	30.0 - 67.5
PCB-208	50	52.5	30.0 - 67.5
PCB-209	50	51.7	30.0 - 67.5

Analyst: _____ Date: 1/9/17

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: 06JAN17Z Sam:4

Ext. Date: 12/15/16 Shift: Day Analysis Date: 6-JAN-17 11:09:13

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	110	15.0 - 145
13C-PCB-3	100	107	15.0 - 145
13C-PCB-4	100	106	15.0 - 145
13C-PCB-15	100	101	15.0 - 145
13C-PCB-19	100	107	15.0 - 145
13C-PCB-37	100	101	15.0 - 145
13C-PCB-54	100	108	15.0 - 145
13C-PCB-77	100	99.2	40.0 - 145
13C-PCB-81	100	98.9	40.0 - 145
13C-PCB-104	100	107	40.0 - 145
13C-PCB-105	100	103	40.0 - 145
13C-PCB-114	100	103	40.0 - 145
13C-PCB-118	100	106	40.0 - 145
13C-PCB-123	100	106	40.0 - 145
13C-PCB-126	100	100	40.0 - 145
13C-PCB-155	100	108	40.0 - 145
13C-PCB-156	100	101	40.0 - 145
13C-PCB-157	100	102	40.0 - 145
13C-PCB-167	100	103	40.0 - 145
13C-PCB-169	100	98.2	40.0 - 145
13C-PCB-188	100	105	40.0 - 145
13C-PCB-189	100	102	40.0 - 145
13C-PCB-202	100	110	40.0 - 145
13C-PCB-205	100	104	40.0 - 145
13C-PCB-206	100	105	40.0 - 145
13C-PCB-208	100	108	40.0 - 145
13C-PCB-209	100	108	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	105	15.0 - 145
13C-PCB-111	100	98.6	40.0 - 145
13C-PCB-178	100	97.1	40.0 - 145

Analyst: [illegible] Date: 1/9/17

FAL ID: 03955-001-0001-OPR Filename: 06JAN17Z Sam:4 Acquired: 6-JAN-17 11:09:13 ICal: DAILY209FAL4-1-6-17
Client ID: OPR ConCal: ST010617Z1 EndCal: ST010617Z2
Results: 10322 GC Column: DB1 Amount: 1.000

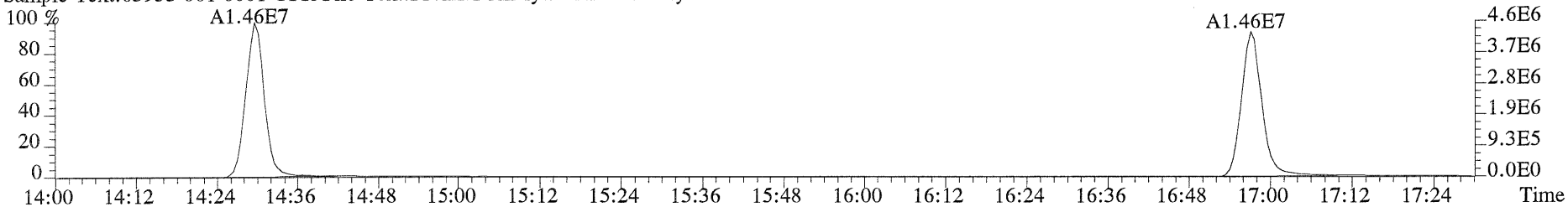
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	1.93e+07	3.08 y	14:30	0.90	52.3		2.50	-	-	*	
13C-PCB-1	4.10e+07	3.09 y	14:29	1.12	110		2.50				110
PCB-3	1.93e+07	3.08 y	16:57	0.89	53.3		2.50	-	-	*	
13C-PCB-3	4.08e+07	3.17 y	16:56	1.14	107		2.50				107
PCB-4	1.18e+07	1.43 y	18:11	1.09	49.7		2.50	-	-	*	
13C-PCB-4	2.17e+07	1.59 y	18:10	0.61	106		2.50				106
PCB-15	1.75e+07	1.47 y	23:45	0.99	52.5		2.50	-	-	*	
13C-PCB-15	3.37e+07	1.57 y	23:44	1.00	101		2.50				101
PCB-19	1.19e+07	1.02 y	22:05	0.94	52.6		2.50	-	-	*	
13C-PCB-19	2.41e+07	1.05 y	22:04	0.68	107		2.50				107
13C-PCB-9	3.33e+07	1.59 y	19:52	-	50.1		2.50				
PCB-37	1.35e+07	1.03 y	30:25	1.06	50.1		2.50	-	-	*	
13C-PCB-37	2.54e+07	1.04 y	30:24	1.09	101		2.50				101
PCB-54	1.36e+07	0.78 y	25:38	0.95	52.8		2.50	-	-	*	
13C-PCB-54	2.71e+07	0.78 y	25:37	1.09	108		2.50				108
PCB-104	1.25e+07	1.56 y	30:05	1.04	51.6		2.50	-	-	*	
13C-PCB-104	2.34e+07	1.58 y	30:04	0.94	107		2.50				107
13C-PCB-28	2.90e+07	1.09 y	26:43	1.19	105		2.50				105
13C-PCB-52	2.31e+07	0.79 y	28:58	-	47.4		2.50				
PCB-81	1.12e+07	0.79 y	36:11	1.05	51.5		2.50	-	-	*	
13C-PCB-81	2.07e+07	0.81 y	36:10	1.01	98.9		2.50				98.9
PCB-77	1.09e+07	0.79 y	36:45	0.97	52.8		2.50	-	-	*	
13C-PCB-77	2.11e+07	0.80 y	36:44	1.02	99.2		2.50				99.2
PCB-155	1.28e+07	1.27 y	34:16	0.97	53.1		2.50	-	-	*	
13C-PCB-155	2.51e+07	1.26 y	34:14	1.12	108		2.50				108
13C-PCB-111	2.33e+07	1.57 y	36:20	1.14	98.6		2.50				98.6
13C-PCB-101	2.08e+07	1.56 y	34:40	-	45.2		2.50				
PCB-123	9.55e+06	1.56 y	38:23	1.12	45.5		2.50	-	-	*	
13C-PCB-123	1.88e+07	1.59 y	38:23	1.00	106		2.50				106
PCB-118	1.02e+07	1.59 y	38:35	0.92	55.6		2.50	-	-	*	
13C-PCB-118	1.99e+07	1.60 y	38:33	1.05	106		2.50				106
PCB-114	9.62e+06	1.58 y	39:11	1.03	49.9		2.50	-	-	*	
13C-PCB-114	1.88e+07	1.59 y	39:09	1.02	103		2.50				103
PCB-105	9.32e+06	1.56 y	40:00	1.00	49.7		2.50	-	-	*	
13C-PCB-105	1.87e+07	1.56 y	39:58	1.02	103		2.50				103
PCB-126	8.41e+06	1.59 y	42:08	1.00	49.2		2.50	-	-	*	
13C-PCB-126	1.71e+07	1.58 y	42:07	0.95	100		2.50				100
PCB-167	9.94e+06	1.24 y	43:31	0.88	53.9		2.50	-	-	*	
13C-PCB-167	2.09e+07	1.26 y	43:29	1.14	103		2.50				103
PCB-156	9.46e+06	1.21 y	44:45	0.93	50.6		2.50	-	-	*	
13C-PCB-156	2.02e+07	1.25 y	44:43	1.12	101		2.50				101
PCB-157	9.57e+06	1.25 y	44:60	0.89	51.9		2.50	-	-	*	
13C-PCB-157	2.08e+07	1.24 y	44:58	1.14	102		2.50				102
PCB-169	8.78e+06	1.23 y	46:52	0.88	53.3		2.50	-	-	*	
13C-PCB-169	1.87e+07	1.25 y	46:52	1.07	98.2		2.50				98.2
PCB-188	1.29e+07	1.05 y	39:45	1.00	54.5		2.50	-	-	*	
13C-PCB-188	2.35e+07	1.05 y	39:45	1.26	105		2.50				105
PCB-189	1.01e+07	1.04 y	48:32	1.00	51.8		2.50	-	-	*	
13C-PCB-189	1.95e+07	1.06 y	48:32	1.07	102		2.50				102
PCB-202	1.02e+07	0.90 y	44:53	0.83	55.8		2.50	-	-	*	
13C-PCB-202	2.20e+07	0.90 y	44:51	1.12	110		2.50				110
13C-PCB-178	1.54e+07	1.07 y	42:23	0.89	97.1		2.50				97.1
13C-PCB-138	1.78e+07	1.26 y	41:37	-	43.0		2.50				

FAL ID: 03955-001-0001-OPR Filename: 06JAN17Z Sam:4 Acquired: 6-JAN-17 11:09:13 ICal: DAILY209FAL4-1-6-17 2 of 2
Client ID: OPR ConCal: ST010617Z1 EndCal: ST010617Z2
Results: 10322 GC Column: DB1 Amount: 1.000

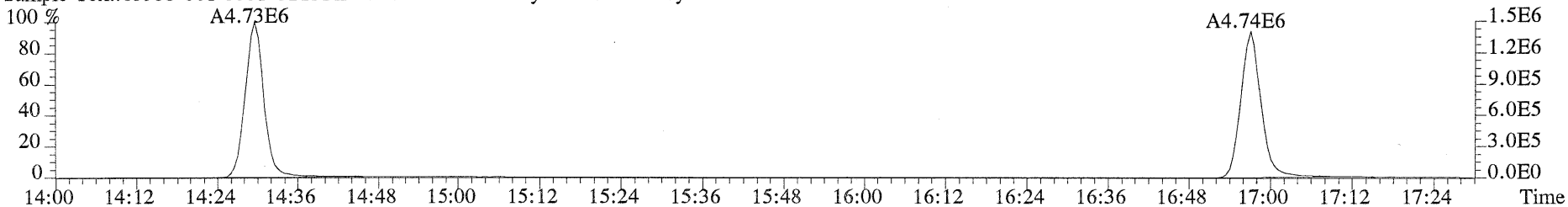
PCB-205	7.82e+06	0.90 y	50:14	0.99	51.5	2.50	-	-	*	
13C-PCB-205	1.53e+07	0.90 y	50:14	1.22	104	2.50				104
PCB-208	7.92e+06	1.37 y	49:15	0.89	52.5	2.50	-	-	*	
13C-PCB-208	1.70e+07	0.79 y	49:15	1.31	108	2.50				108
PCB-206	5.79e+06	1.37 y	51:30	0.92	52.0	2.50	-	-	*	
13C-PCB-206	1.22e+07	0.79 y	51:29	0.97	105	2.50				105
PCB-209	9.40e+06	1.18 y	52:45	0.96	51.7	2.50	-	-	*	
13C-PCB-209	1.90e+07	1.18 y	52:43	1.46	108	2.50				108
13C-PCB-194	1.20e+07	0.92 y	49:58	-	42.1	2.50				

Analyst: _____ Date: 1/9/17

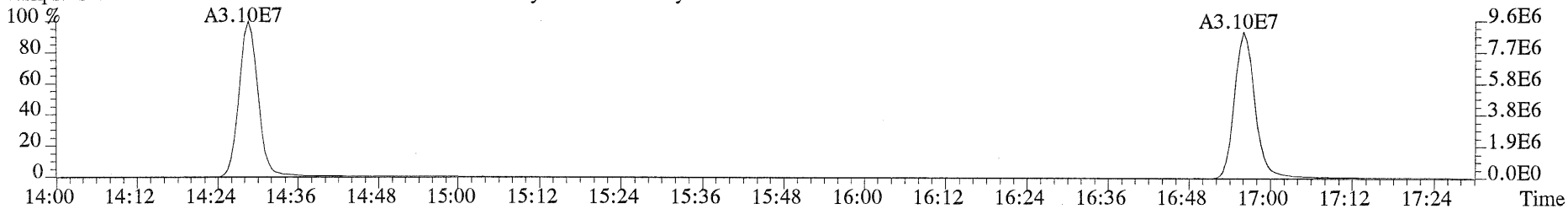
File:06JAN17Z #1-784 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



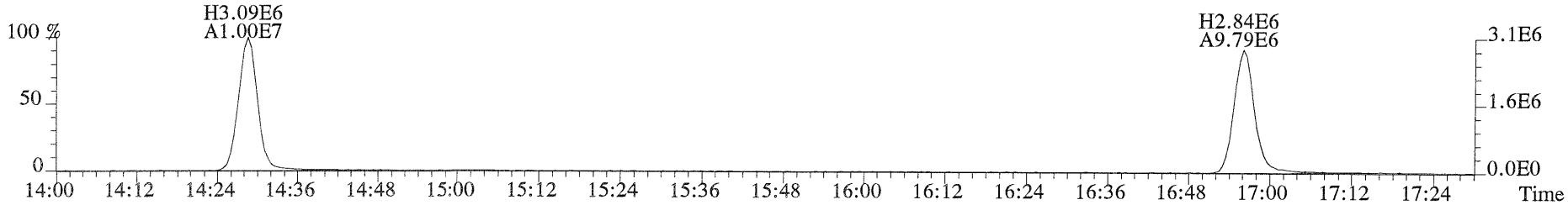
File:06JAN17Z #1-784 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



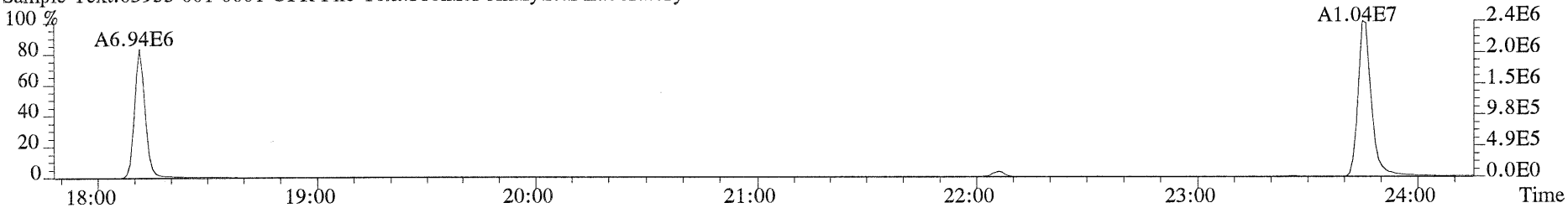
File:06JAN17Z #1-784 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



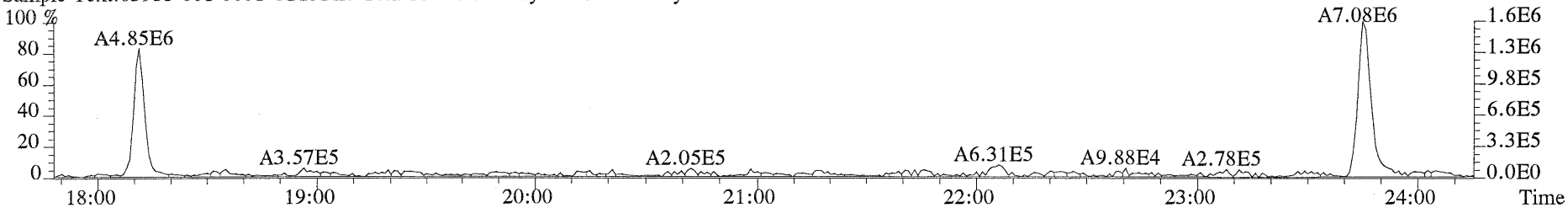
File:06JAN17Z #1-784 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



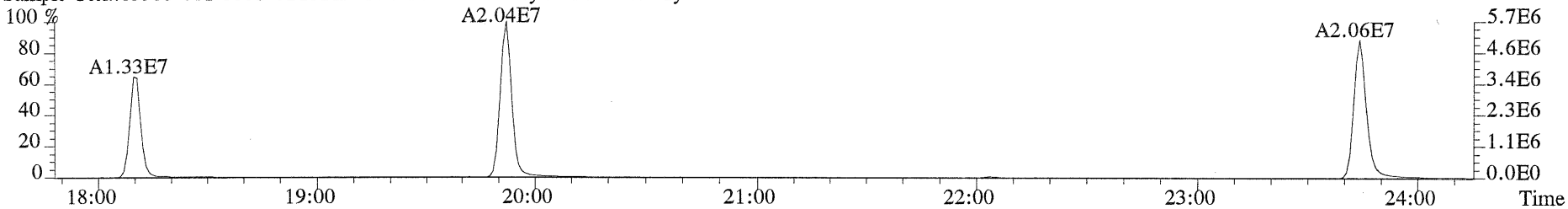
File:06JAN17Z #1-509 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



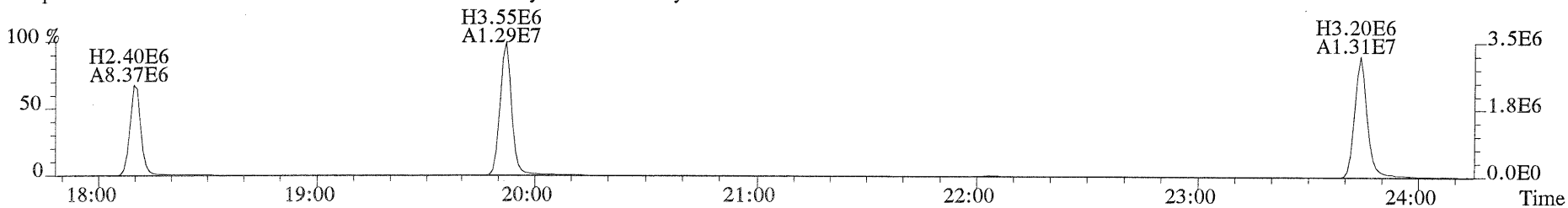
File:06JAN17Z #1-509 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



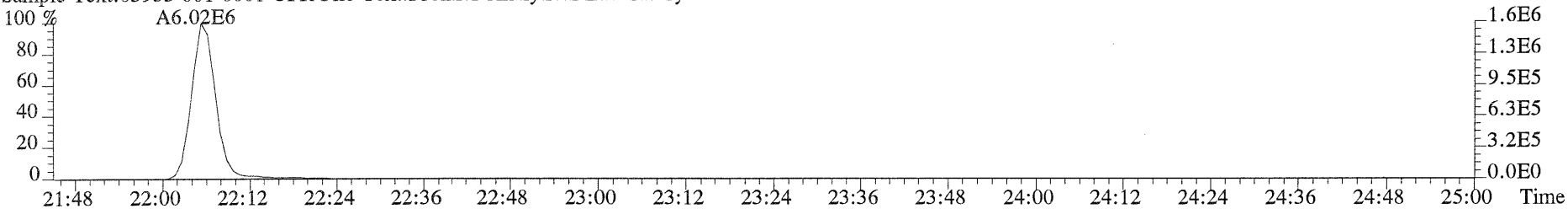
File:06JAN17Z #1-509 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



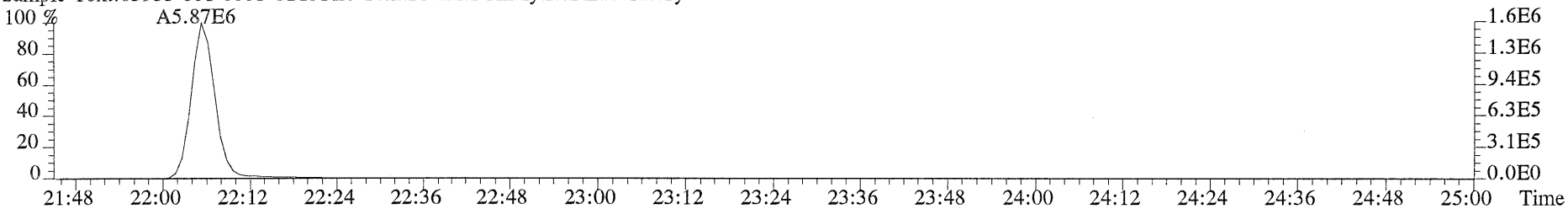
File:06JAN17Z #1-509 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



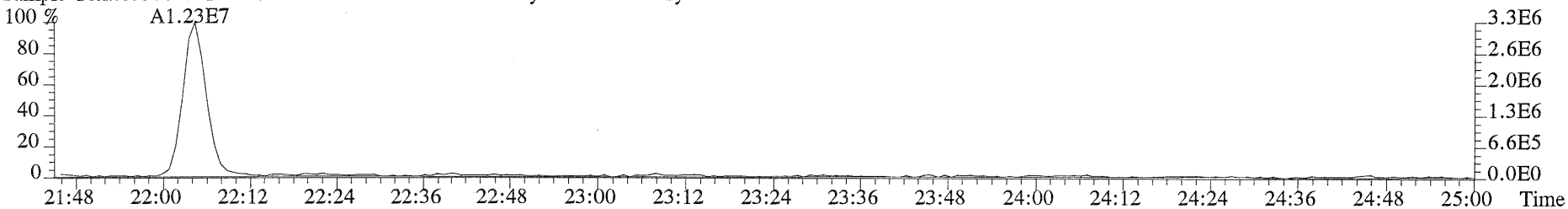
File:06JAN17Z #1-509 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



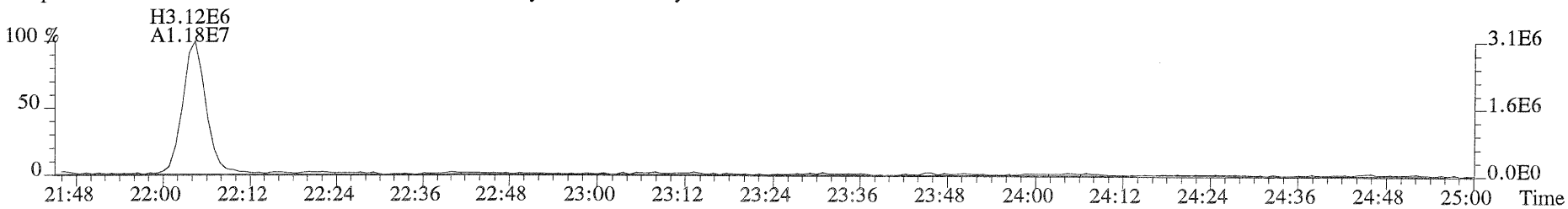
File:06JAN17Z #1-509 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



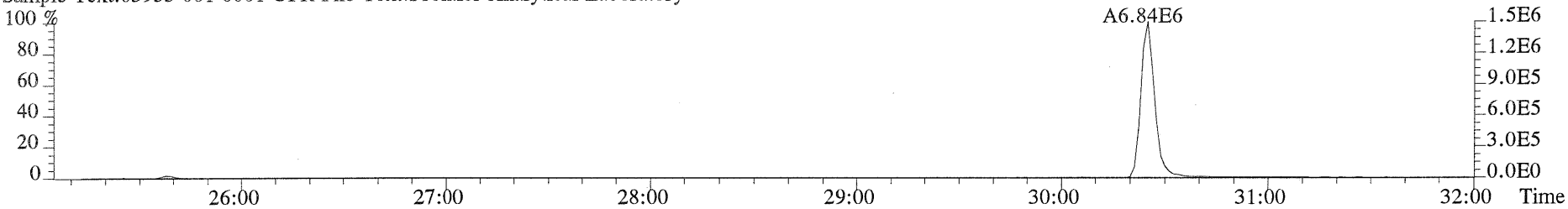
File:06JAN17Z #1-509 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



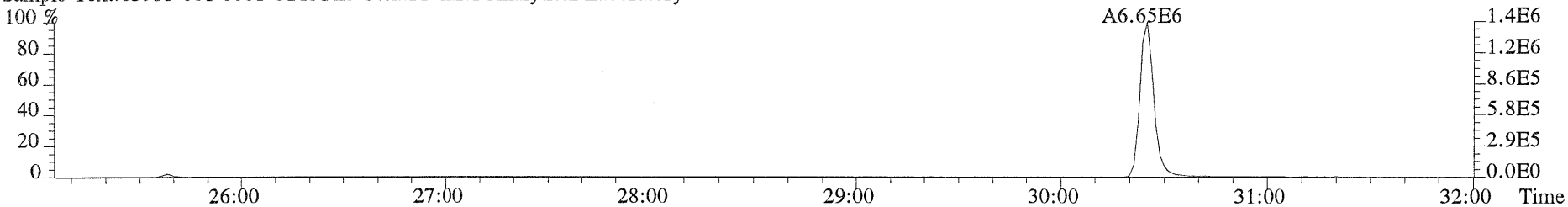
File:06JAN17Z #1-509 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



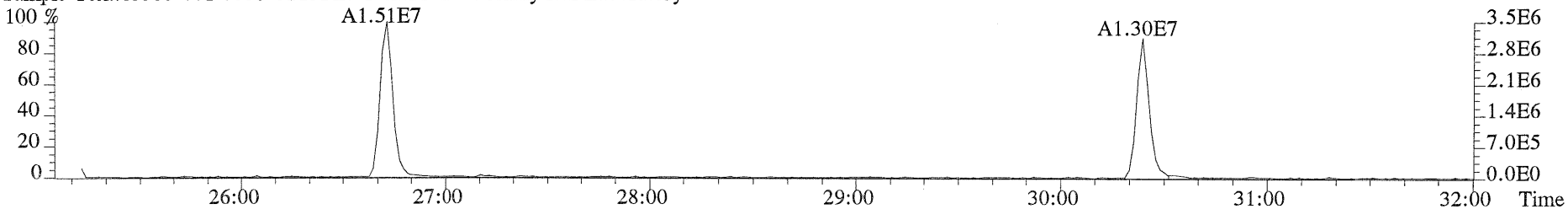
File:06JAN17Z #1-407 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



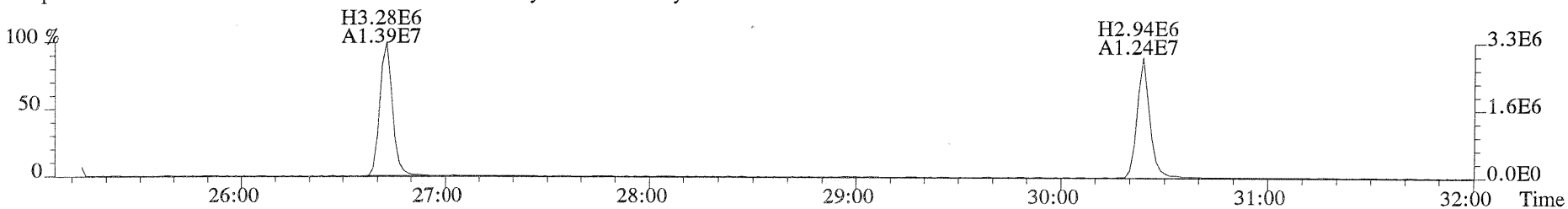
File:06JAN17Z #1-407 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



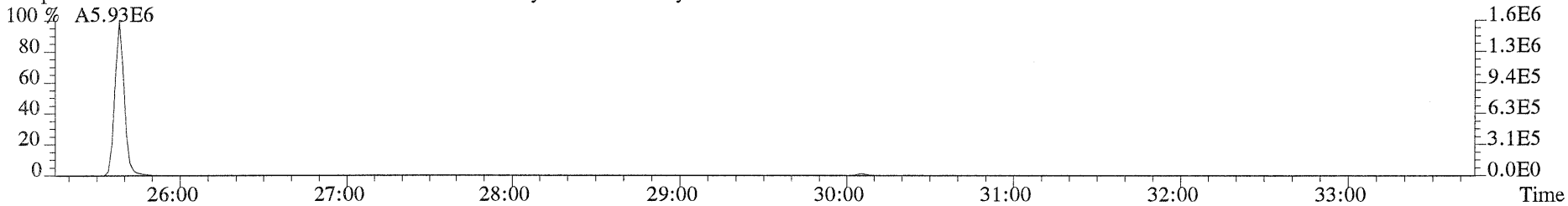
File:06JAN17Z #1-407 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



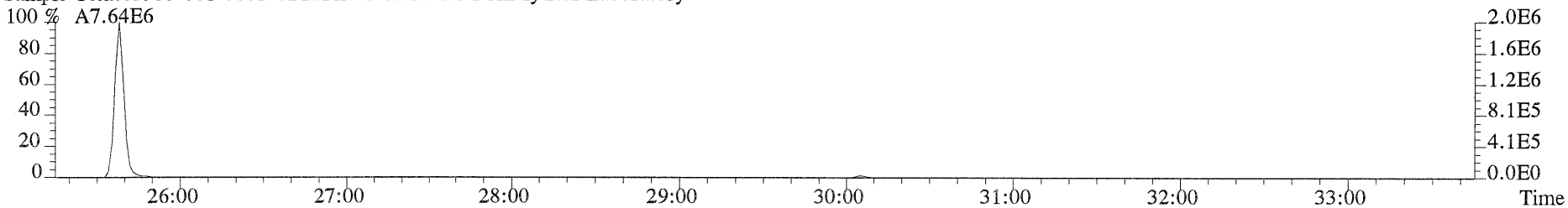
File:06JAN17Z #1-407 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



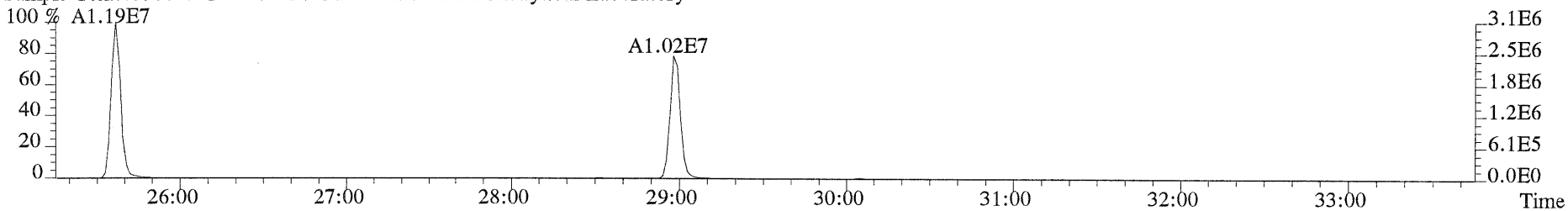
File:06JAN17Z #1-407 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



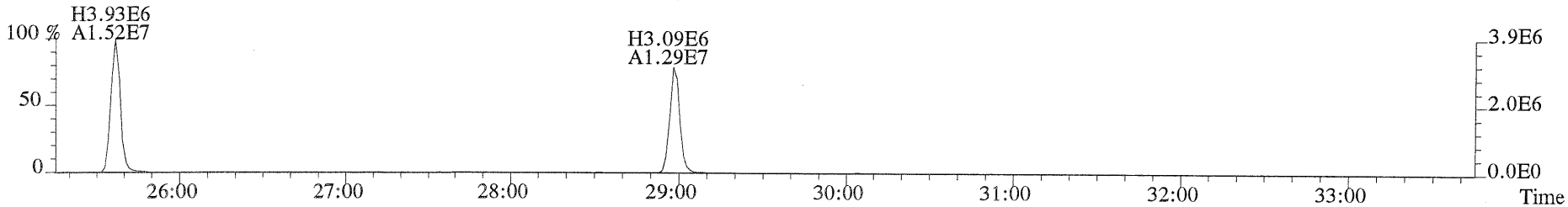
File:06JAN17Z #1-407 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



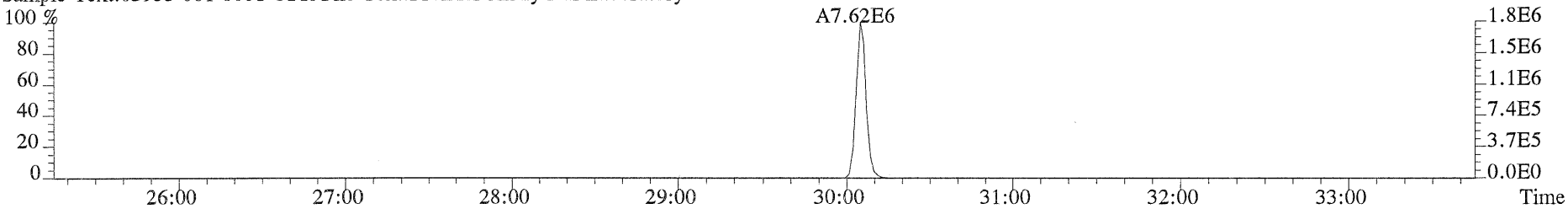
File:06JAN17Z #1-407 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



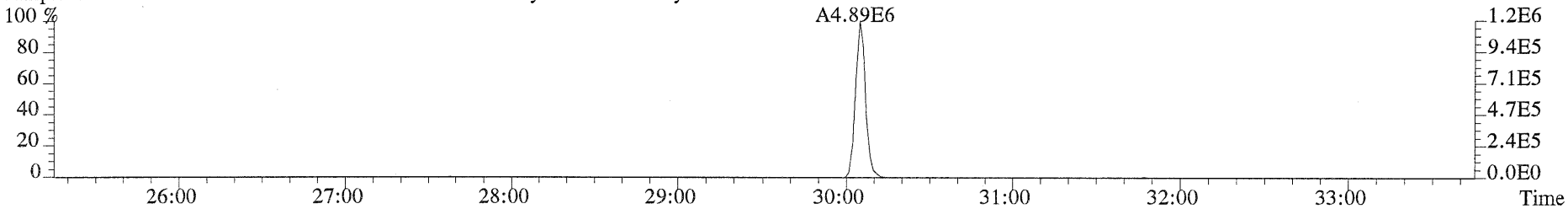
File:06JAN17Z #1-407 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



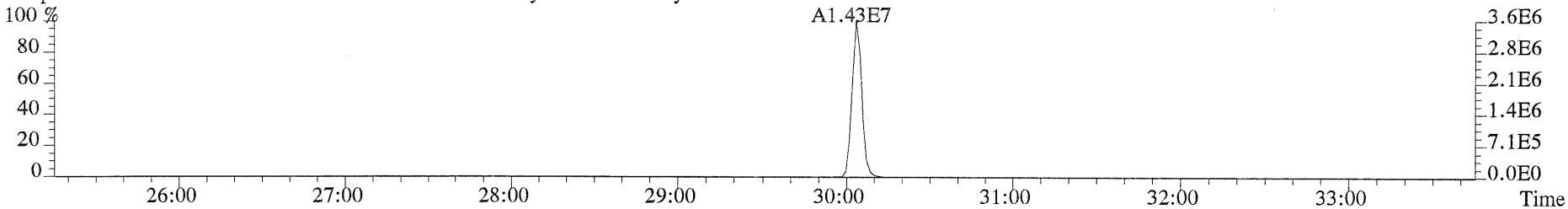
File:06JAN17Z #1-407 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



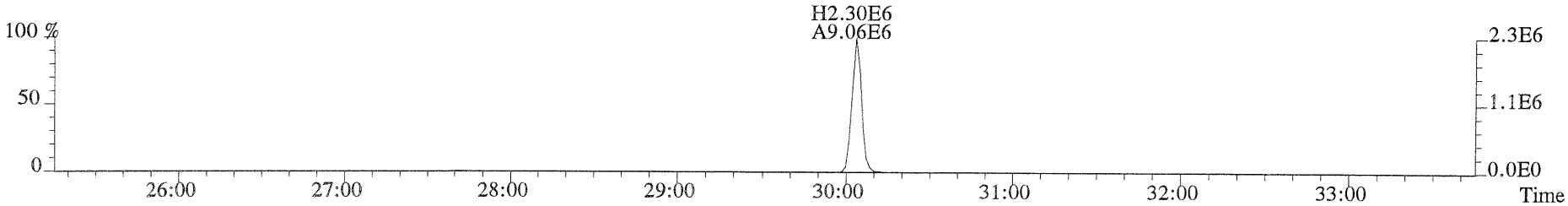
File:06JAN17Z #1-407 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



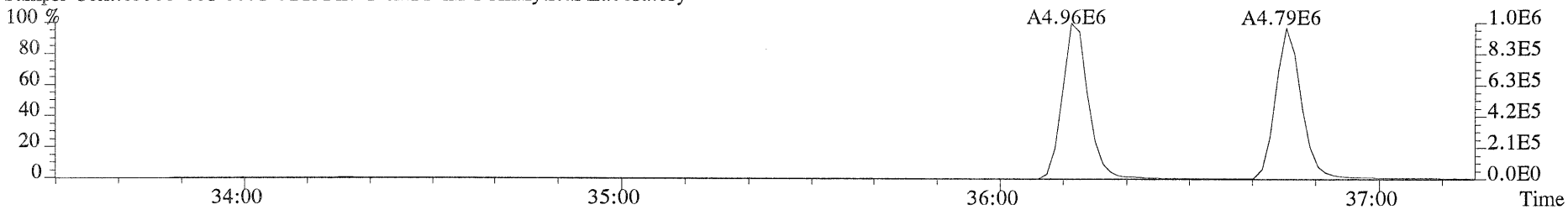
File:06JAN17Z #1-407 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-407 Acq: 6-JAN-2017 11:09:13 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:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-181 Acq: 6-JAN-2017 11:09:13 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:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



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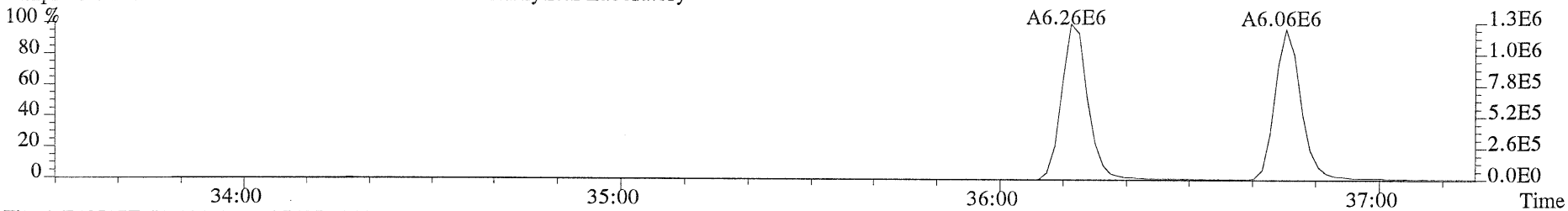
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



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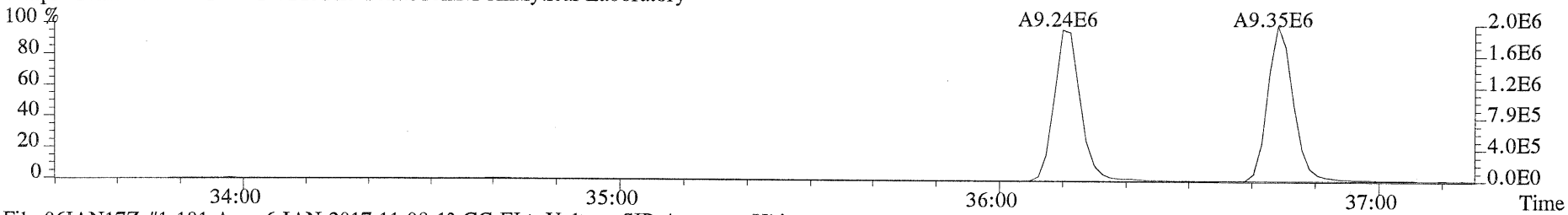
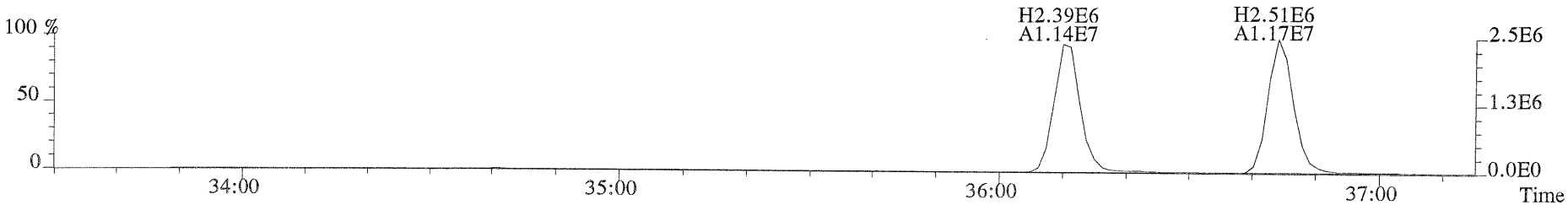
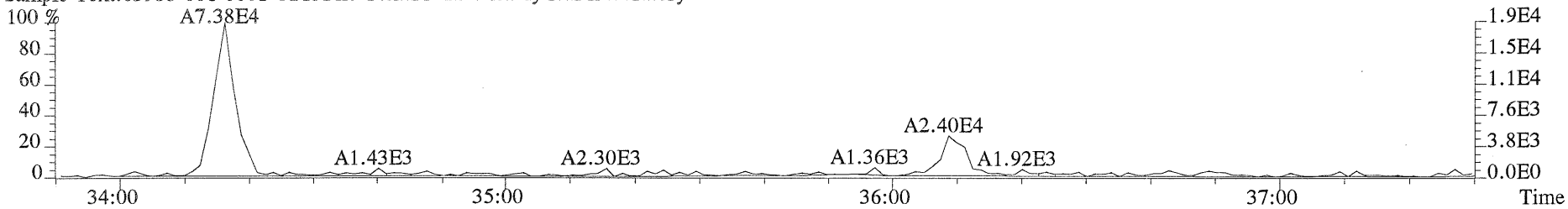
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



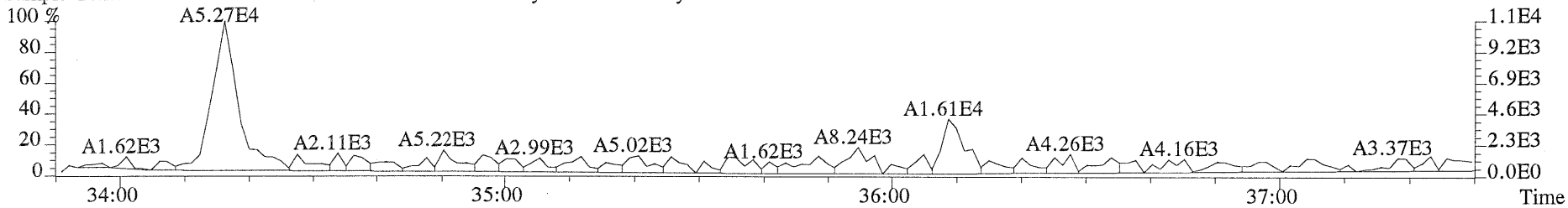
File:06JAN17Z #1-181 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



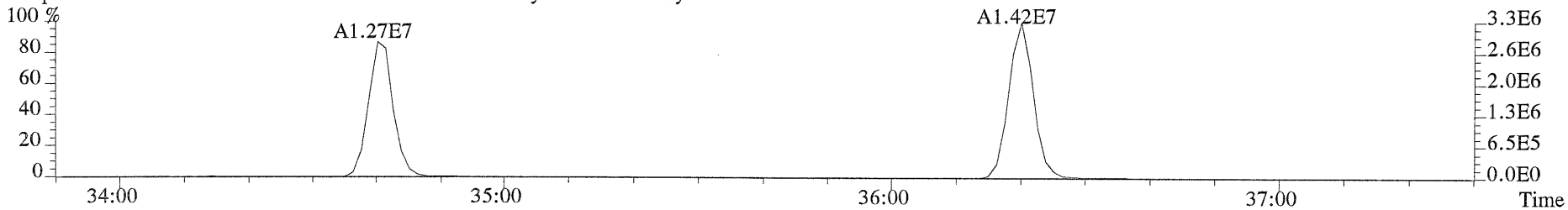
File:06JAN17Z #1-181 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



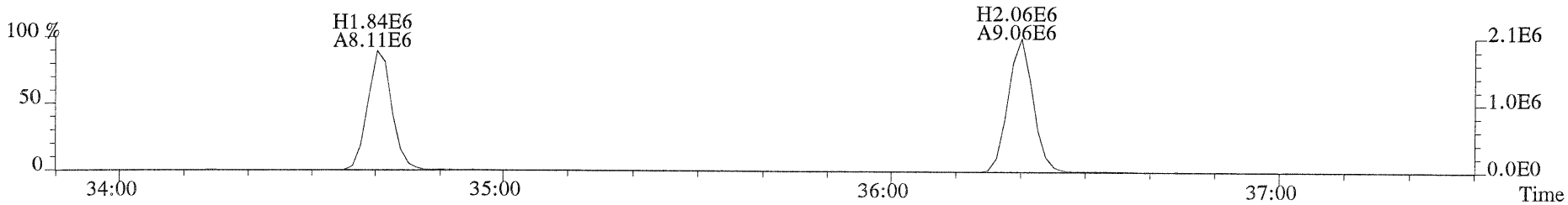
File:06JAN17Z #1-181 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



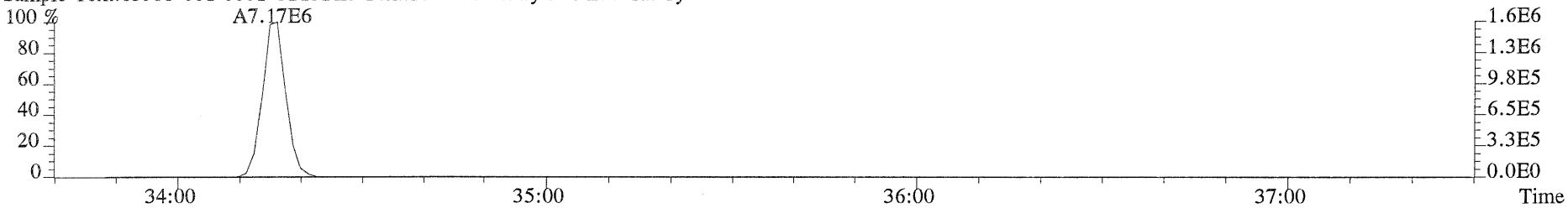
File:06JAN17Z #1-181 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



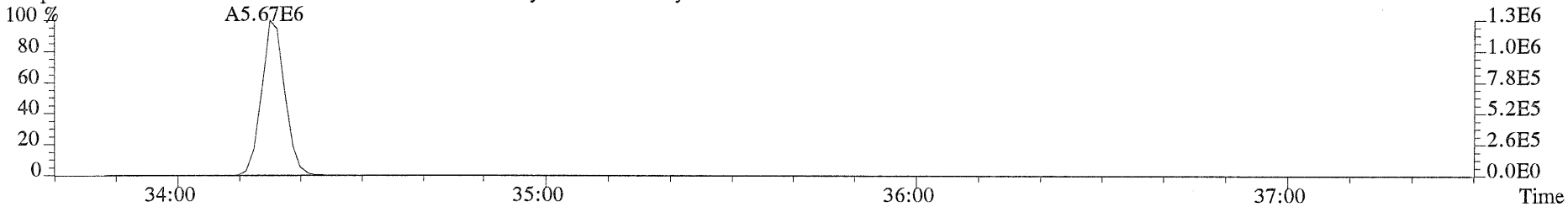
File:06JAN17Z #1-181 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



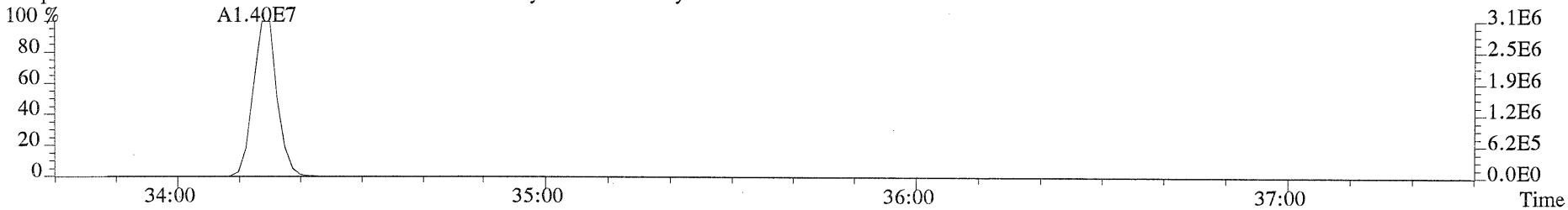
File:06JAN17Z #1-181 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



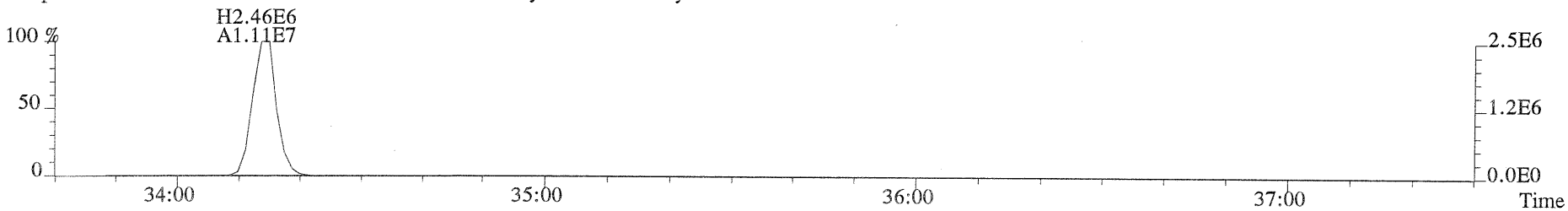
File:06JAN17Z #1-181 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



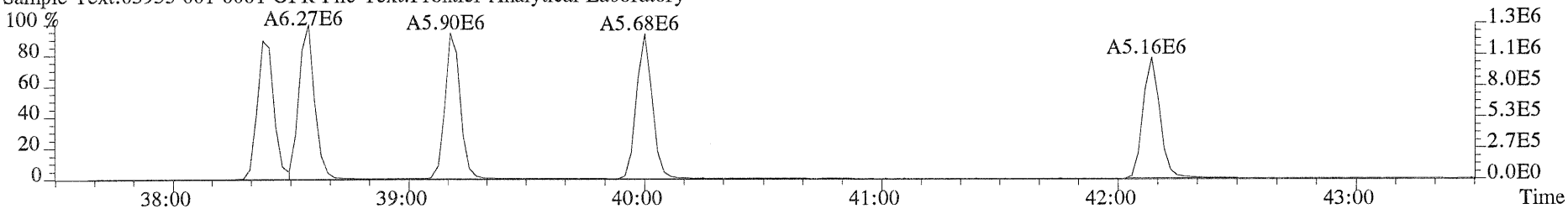
File:06JAN17Z #1-181 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



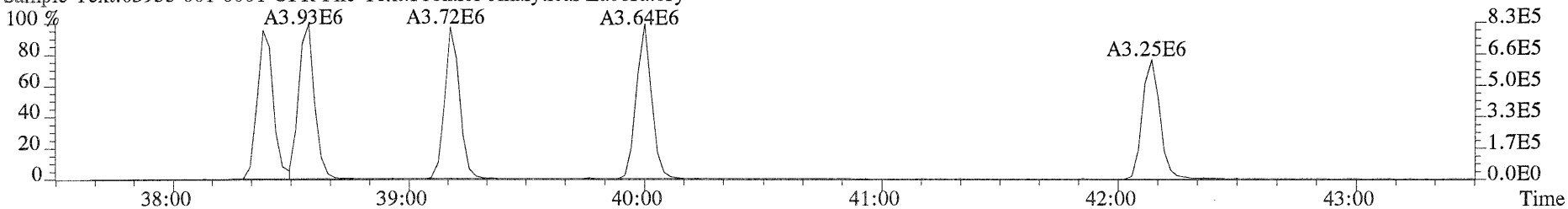
File:06JAN17Z #1-181 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-412 Acq: 6-JAN-2017 11:09:13 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:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-412 Acq: 6-JAN-2017 11:09:13 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:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



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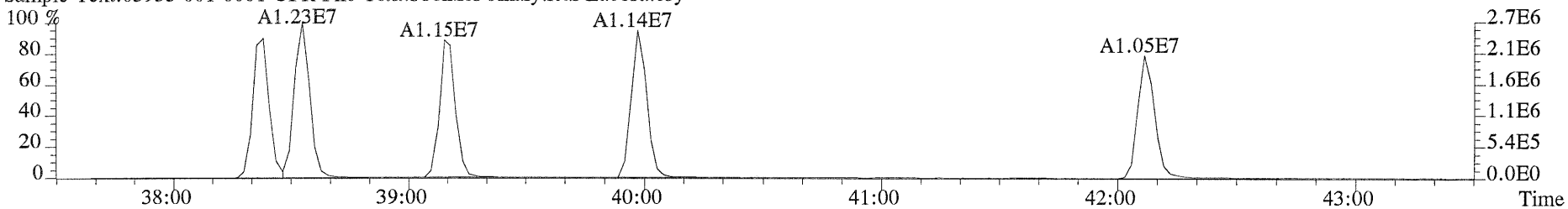
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



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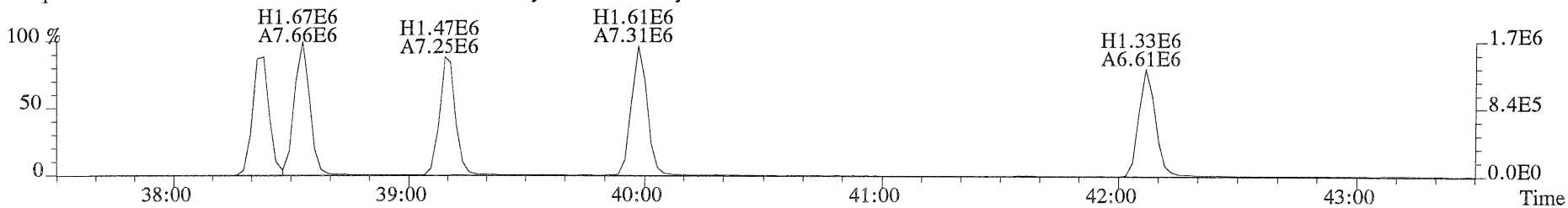
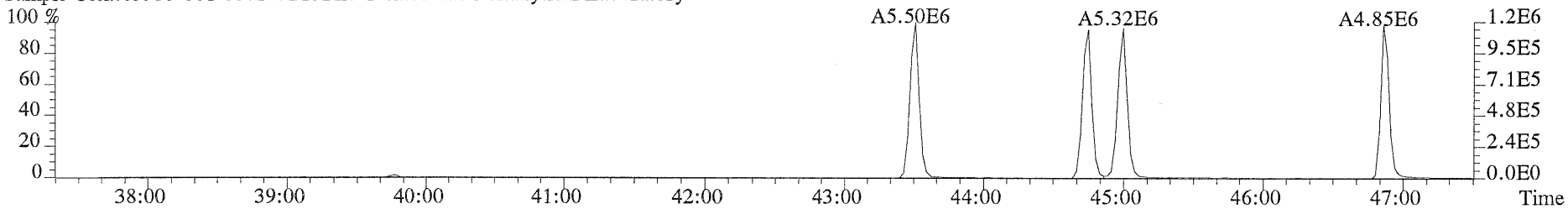
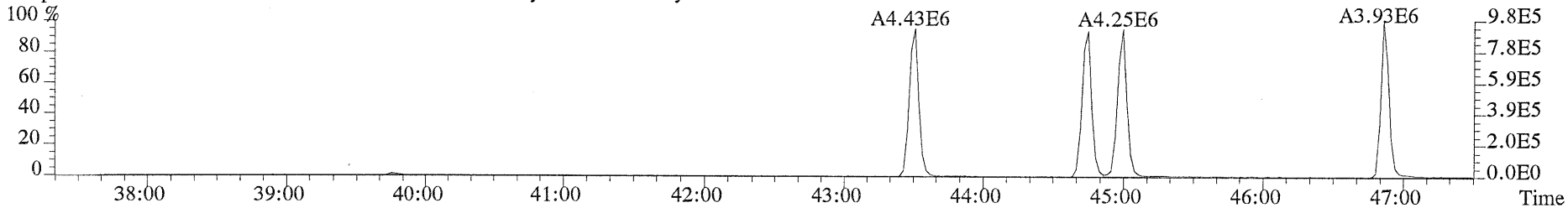
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



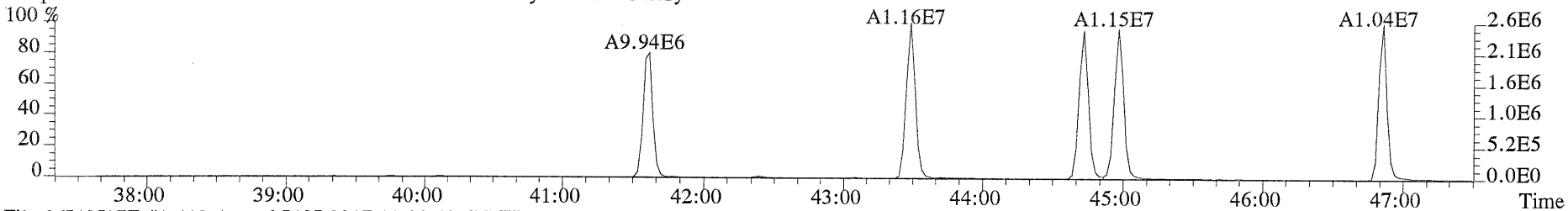
File:06JAN17Z #1-412 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-412 Acq: 6-JAN-2017 11:09:13 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:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-412 Acq: 6-JAN-2017 11:09:13 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:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-412 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
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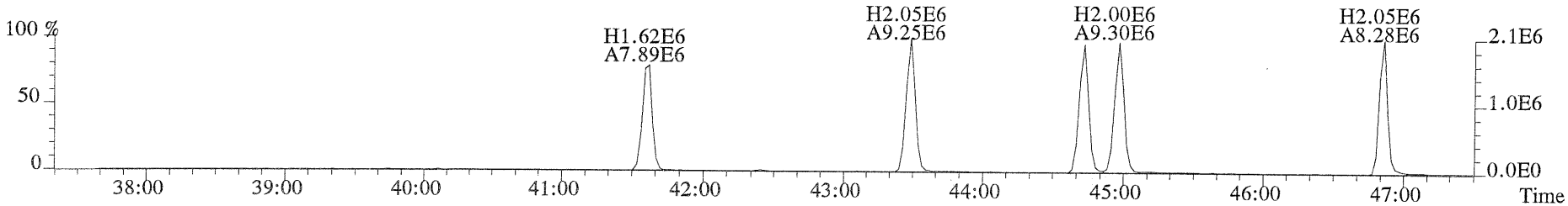
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



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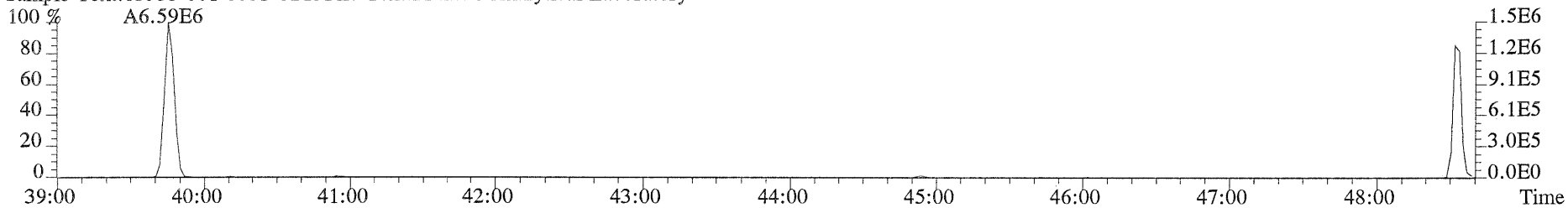
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



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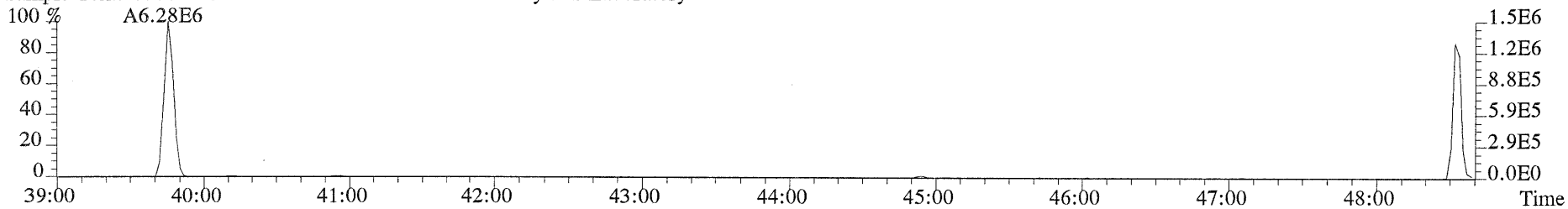
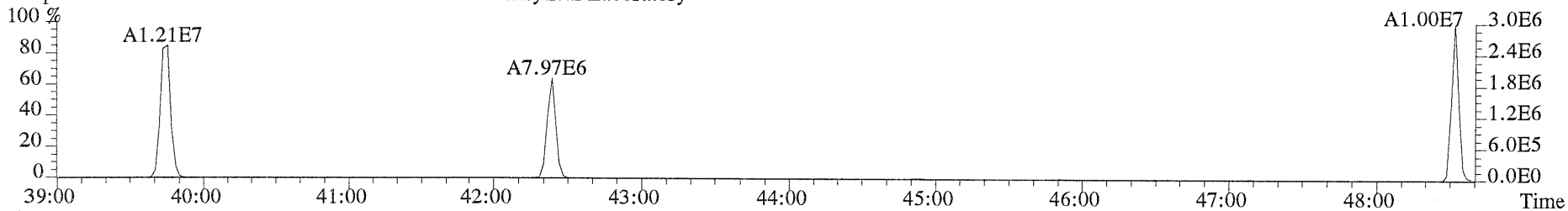
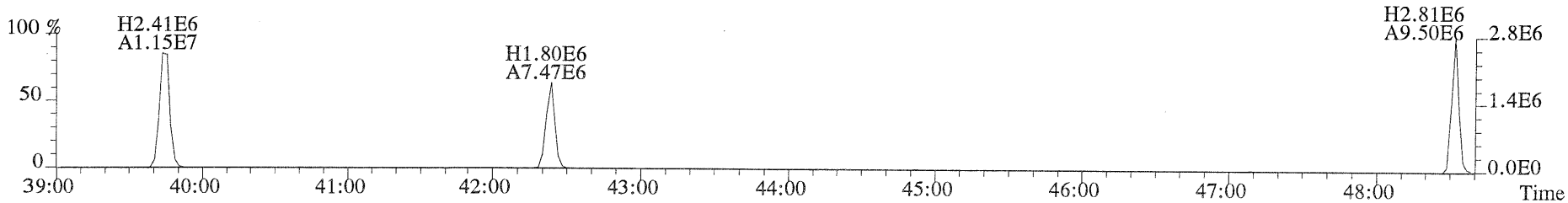
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



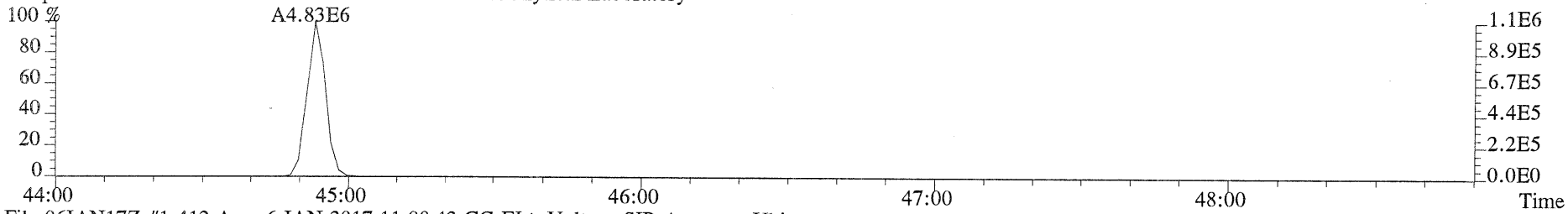
File:06JAN17Z #1-412 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



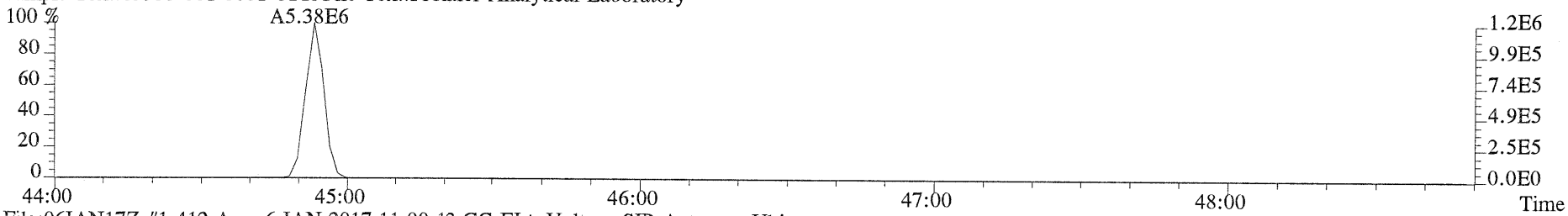
File:06JAN17Z #1-412 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



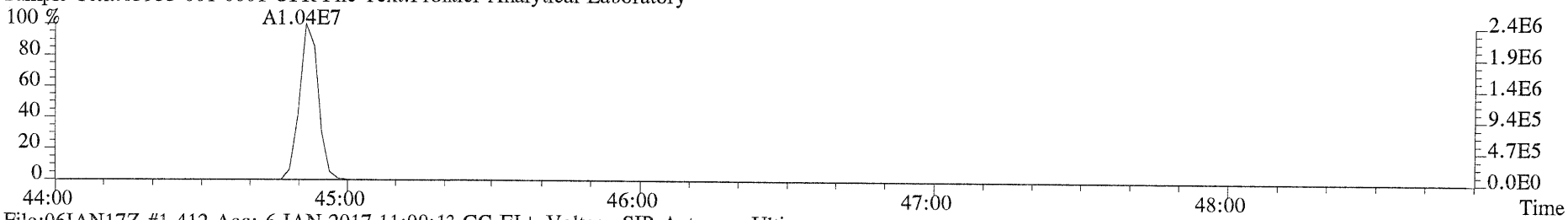
File:06JAN17Z #1-412 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



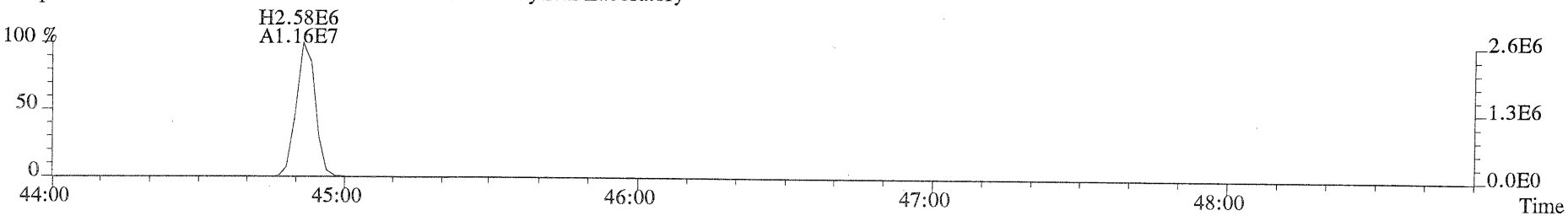
File:06JAN17Z #1-412 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



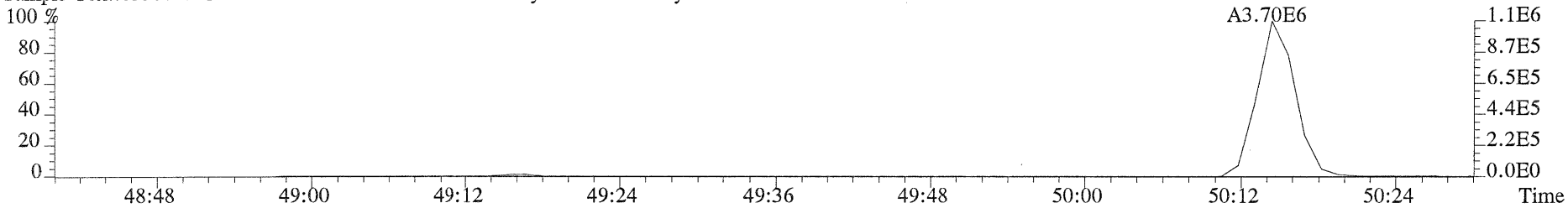
File:06JAN17Z #1-412 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



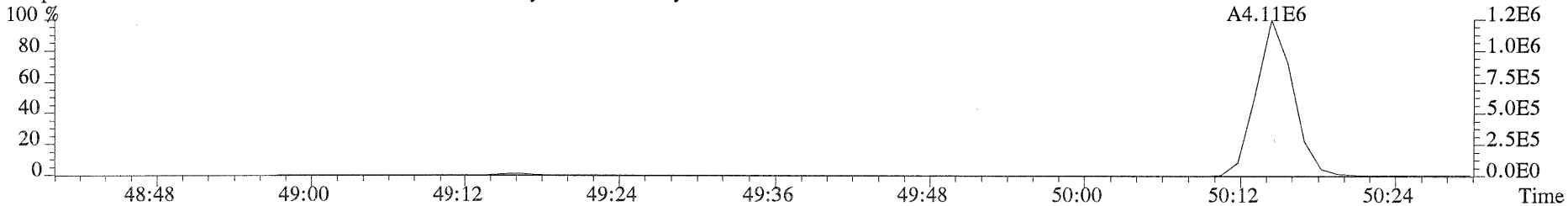
File:06JAN17Z #1-412 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-307 Acq: 6-JAN-2017 11:09:13 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:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-307 Acq: 6-JAN-2017 11:09:13 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:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-307 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
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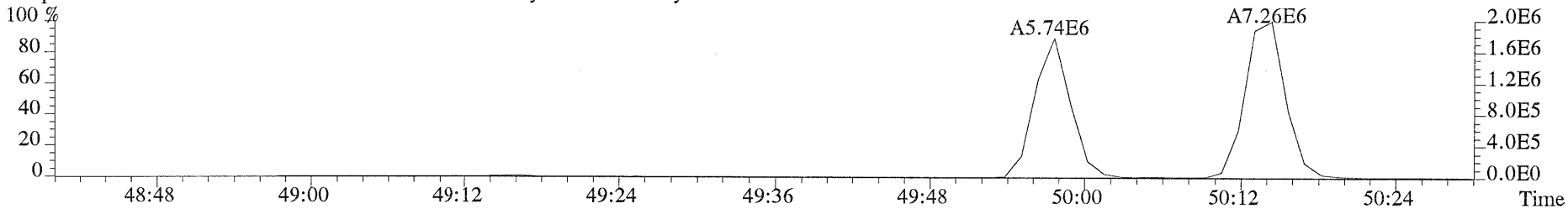
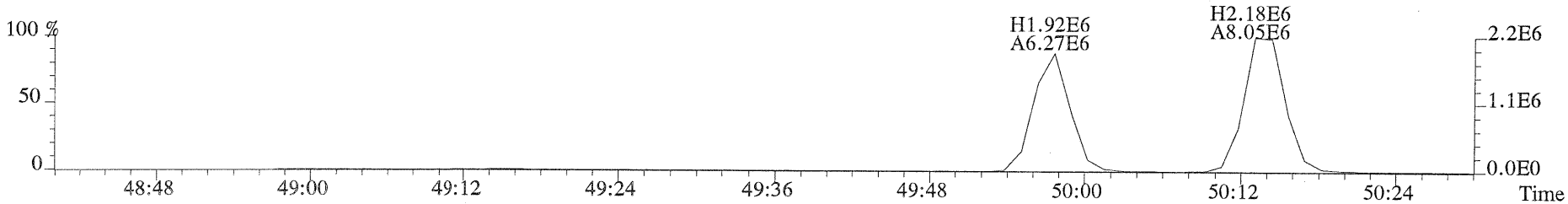
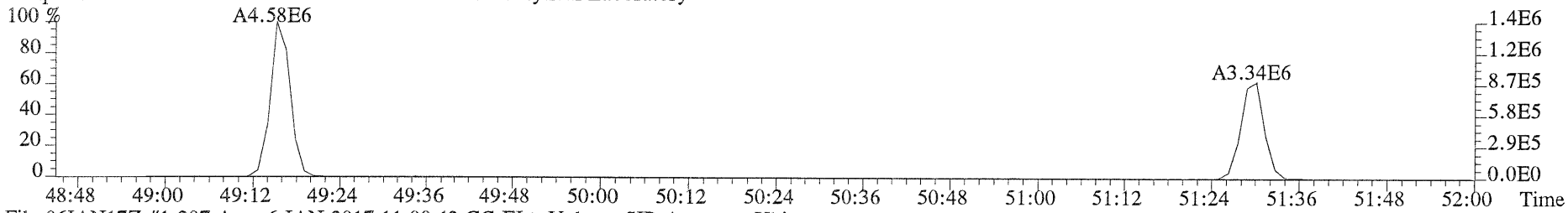
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



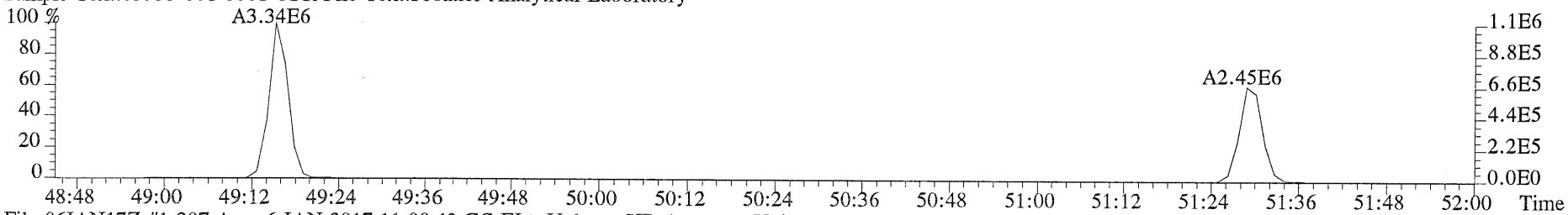
File:06JAN17Z #1-307 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



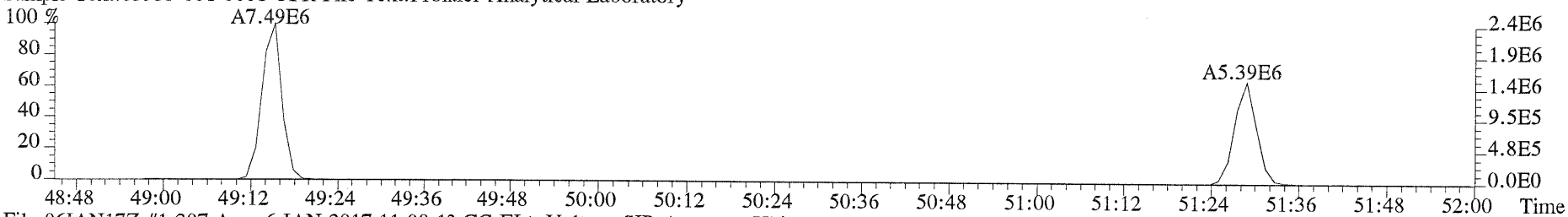
File:06JAN17Z #1-307 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



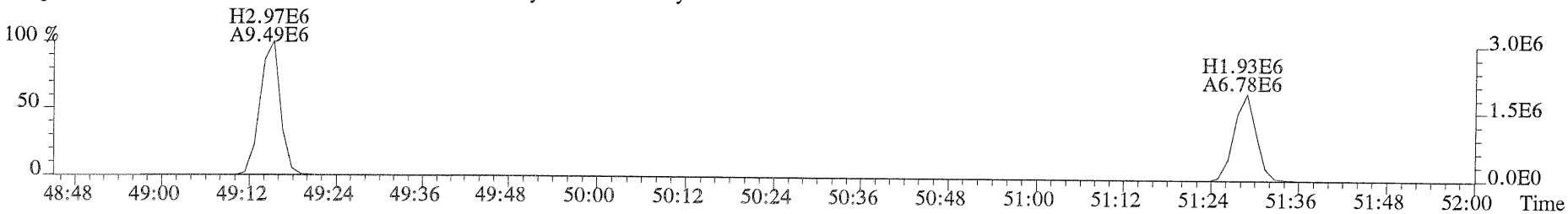
File:06JAN17Z #1-307 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



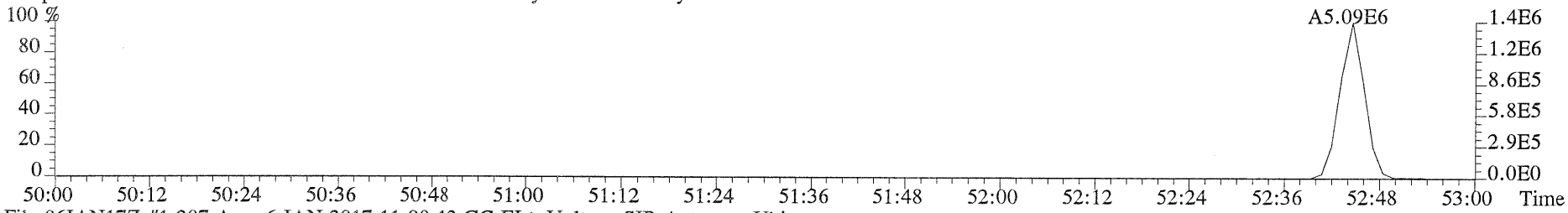
File:06JAN17Z #1-307 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



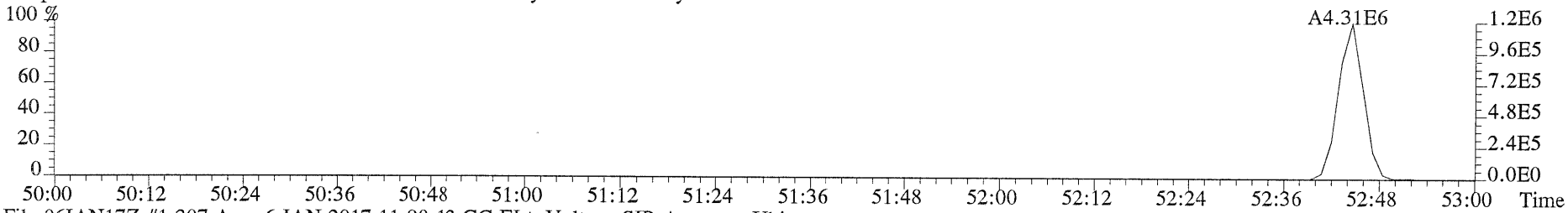
File:06JAN17Z #1-307 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



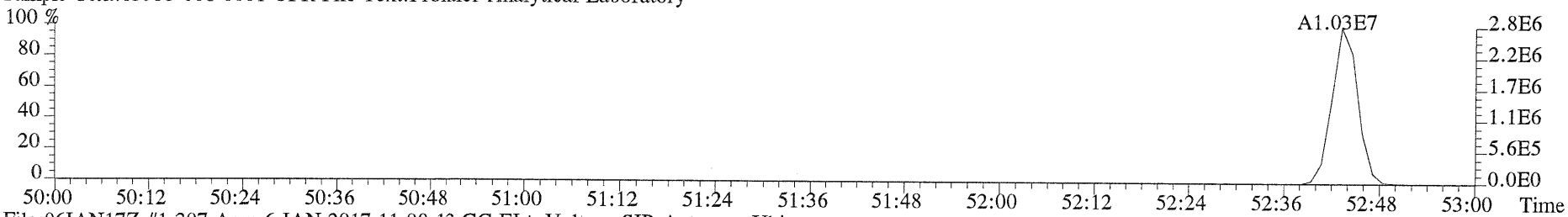
File:06JAN17Z #1-307 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



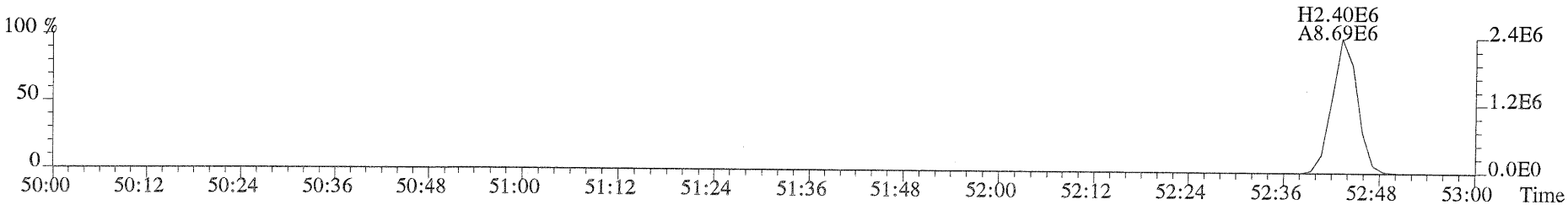
File:06JAN17Z #1-307 Acq: 6-JAN-2017 11:09:13 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-307 Acq: 6-JAN-2017 11:09:13 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:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-307 Acq: 6-JAN-2017 11:09:13 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:03955-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 10322-001-0001-SA Filename: 06JAN17Z Sam:5 Acquired: 6-JAN-17 12:07:33 ICal: DAILY209FAL4-1-6-17
Client ID: LDW-BA-SU-S010-TB-EXSITU1 ConCal: ST010617Z1 EndCal: ST010617Z2
Results: 10322 GC Column: DB1 Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	0.90	*		1940	1460	6.69	
13C-PCB-1	4.56e+07	3.11	y	14:29	1.12	11000					110
PCB-2	*	*	n	NotFnd	0.85	*		1940	1460	7.43	
PCB-3	*	*	n	NotFnd	0.89	*		1940	1460	7.39	
13C-PCB-3	4.46e+07	3.11	y	16:57	1.14	10600					106
PCB-4	*	*	n	NotFnd	1.09	*		2110	1300	11.8	
PCB-10	*	*	n	NotFnd	1.01	*		2110	1300	10.7	
13C-PCB-4	2.35e+07	1.58	y	18:11	0.61	10400					104
PCB-9	*	*	n	NotFnd	1.10	*		2110	1300	9.80	
PCB-7	*	*	n	NotFnd	1.14	*		2110	1300	9.46	
PCB-6	*	*	n	NotFnd	1.14	*		2110	1300	9.47	
PCB-8	*	*	n	NotFnd	1.12	*		2110	1300	9.66	
PCB-5	*	*	n	NotFnd	1.08	*		2110	1300	10.0	
PCB-14	2.86e+05	1.48	y	21:58	1.10	86.4		-	-	*	
PCB-11	*	*	n	NotFnd	1.07	*		2110	1300	10.1	
PCB-13	*	*	n	NotFnd	1.07	*		2110	1300	10.1	
PCB-12	*	*	n	NotFnd	1.04	*		2110	1300	10.4	
PCB-15	*	*	n	NotFnd	0.99	*		2110	1300	9.56	
13C-PCB-15	3.69e+07	1.60	y	23:45	1.00	9990					99.9
PCB-19	*	*	n	NotFnd	0.94	*		1230	600	6.99	
PCB-30	*	*	n	NotFnd	1.34	*		1230	600	4.89	
PCB-18	*	*	n	NotFnd	0.94	*		1230	600	6.95	
PCB-17	*	*	n	NotFnd	1.02	*		1230	600	6.43	
PCB-27	*	*	n	NotFnd	1.31	*		1230	600	5.00	
PCB-24	*	*	n	NotFnd	1.35	*		1230	600	4.85	
PCB-16	*	*	n	NotFnd	1.01	*		1230	600	6.50	
PCB-32	*	*	n	NotFnd	1.28	*		1230	600	5.13	
13C-PCB-19	2.67e+07	1.03	y	22:05	0.68	10700					107
13C-PCB-9	3.69e+07	1.57	y	19:52	-	55.4					
PCB-34	*	*	n	NotFnd	0.91	*		1130	580	7.86	
PCB-23	*	*	n	NotFnd	1.03	*		1130	580	6.93	
PCB-29	*	*	n	NotFnd	1.04	*		1130	580	6.83	
PCB-26	*	*	n	NotFnd	1.01	*		1130	580	7.08	
PCB-25	*	*	n	NotFnd	1.17	*		1130	580	6.12	
PCB-31	*	*	n	NotFnd	1.02	*		1130	580	7.02	
PCB-28	*	*	n	NotFnd	1.18	*		1130	580	6.05	
PCB-20	*	*	n	NotFnd	1.02	*		1130	580	6.96	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.02	*		1130	580	6.96	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.02	*		1130	580	6.96	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.03	*		1130	580	6.93	
PCB-36	3.17e+06	1.04	y	28:19	0.99	1110		-	-	*	
PCB-39	*	*	n	NotFnd	0.99	*		1130	580	7.22	
PCB-38	*	*	n	NotFnd	1.00	*		1130	580	7.16	
PCB-35	*	*	n	NotFnd	0.94	*		1130	580	7.60	
PCB-37	*	*	n	NotFnd	1.06	*		1130	580	6.71	
13C-PCB-37	2.86e+07	1.08	y	30:23	1.09	10000					100

PCB-54	*	*	n	NotFnd	0.95	*	532	788	4.92	
PCB-50	*	*	n	NotFnd	0.73	*	532	788	6.36	
PCB-53	*	*	n	NotFnd	0.73	*	532	788	6.41	
PCB-51	*	*	n	NotFnd	0.75	*	532	788	6.22	
PCB-45	*	*	n	NotFnd	0.65	*	532	788	7.18	
PCB-46	*	*	n	NotFnd	0.62	*	532	788	7.56	
PCB-52	*	*	n	NotFnd	0.86	*	532	788	5.43	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	0.86	*	532	788	5.43	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.04	*	532	788	4.47	
PCB-43	*	*	n	NotFnd	0.72	*	532	788	6.49	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.72	*	532	788	6.49	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.91	*	532	788	5.13	
PCB-48	*	*	n	NotFnd	0.89	*	532	788	5.21	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	0.89	*	532	788	5.21	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.90	*	532	788	5.19	
PCB-62	*	*	n	NotFnd	0.93	*	532	788	5.02	
PCB-44	*	*	n	NotFnd	0.66	*	532	788	7.07	
PCB-42	*	*	n	NotFnd	0.88	*	532	788	5.29	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.88	*	532	788	5.29	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	0.96	*	532	788	4.87	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	0.96	*	532	788	4.87	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	0.96	*	532	788	4.87	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	0.96	*	532	788	4.87	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	1.02	*	532	788	4.56	
PCB-40	*	*	n	NotFnd	0.56	*	532	788	8.35	
PCB-57	*	*	n	NotFnd	0.96	*	532	788	4.86	
PCB-67	*	*	n	NotFnd	0.95	*	532	788	4.92	
PCB-58	*	*	n	NotFnd	0.99	*	532	788	4.73	
PCB-63	*	*	n	NotFnd	0.99	*	532	788	4.72	
PCB-74	*	*	n	NotFnd	1.02	*	532	788	4.59	
PCB-61	*	*	n	NotFnd	1.06	*	532	788	4.41	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	1.06	*	532	788	4.41	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.00	*	532	788	4.66	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.00	*	532	788	4.66	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.12	*	532	788	4.17	
PCB-55	8.77e+04	0.81	y	33:34	0.99	30.0	-	-	*	
13C-PCB-54	2.96e+07	0.79	y	25:38	1.09	10300				103
PCB-104	5.16e+06	1.54	y	30:06	1.04	1960	-	-	*	
PCB-96	*	*	n	NotFnd	0.95	*	440	932	6.31	
PCB-103	*	*	n	NotFnd	0.82	*	440	932	7.31	
PCB-100	*	*	n	NotFnd	0.81	*	440	932	7.43	
PCB-94	*	*	n	NotFnd	0.69	*	440	932	8.74	
PCB-98	*	*	n	NotFnd	0.90	*	440	932	6.71	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.90	*	440	932	6.71	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.65	*	440	932	9.31	
PCB-93	*	*	n	NotFnd	0.64	*	440	932	9.33	
PCB-88	*	*	n	NotFnd	0.76	*	440	932	7.88	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.76	*	440	932	7.88	Co-elute PCB 88
PCB-121	7.93e+06	1.56	y	33:33	0.93	3350	-	-	*	
13C-PCB-104	2.54e+07	1.60	y	30:04	0.94	10200				102
13C-PCB-28	3.26e+07	1.07	y	26:42	1.19	10400				104
13C-PCB-52	2.63e+07	0.78	y	28:59	-	53.9				

PCB-56	*	*	n	NotFnd	1.00	*	-	-	6.15	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.00	*	540	696	6.15	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.02	*	540	696	6.06	
PCB-78	6.17e+06	0.78	y	35:42	0.99	2560	-	-	*	
PCB-81	*	*	n	NotFnd	1.05	*	540	696	5.67	
13C-PCB-81	2.44e+07	0.80	y	36:11	1.01	10000				100
PCB-77	*	*	n	NotFnd	0.97	*	540	696	6.48	
13C-PCB-77	2.44e+07	0.80	y	36:45	1.02	9860				98.6
PCB-155	1.10e+07	1.28	y	34:16	0.97	4120	-	-	*	
PCB-150	*	*	n	NotFnd	0.90	*	508	556	4.54	
PCB-152	*	*	n	NotFnd	0.89	*	508	556	4.59	
PCB-145	*	*	n	NotFnd	0.89	*	508	556	4.61	
PCB-136	*	*	n	NotFnd	0.92	*	508	556	4.44	
PCB-148	*	*	n	NotFnd	0.64	*	508	556	6.34	
PCB-154	*	*	n	NotFnd	0.80	*	508	556	5.12	
13C-PCB-155	2.77e+07	1.27	y	34:14	1.12	10200				102
13C-PCB-111	2.74e+07	1.56	y	36:20	1.14	9990				99.9
13C-PCB-101	2.41e+07	1.58	y	34:41	-	52.5				
PCB-84	1.12e+05	1.52	y	34:16	0.78	63.7	-	-	*	Co-elute PCB 92
PCB-92	1.12e+05	1.52	y	34:16	0.78	63.7	-	-	*	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.75	*	672	872	10.6	
PCB-90	*	*	n	NotFnd	0.87	*	672	872	9.15	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.87	*	672	872	9.15	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.97	*	672	872	8.29	
PCB-99	*	*	n	NotFnd	0.99	*	672	872	8.07	
PCB-119	*	*	n	NotFnd	1.14	*	672	872	7.02	
PCB-83	*	*	n	NotFnd	0.87	*	672	872	9.24	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.87	*	672	872	9.24	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.04	*	672	872	7.66	
PCB-97	*	*	n	NotFnd	0.96	*	672	872	8.38	
PCB-86	*	*	n	NotFnd	0.80	*	672	872	10.0	
PCB-125	*	*	n	NotFnd	1.00	*	672	872	7.97	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	1.00	*	672	872	7.97	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	1.00	*	672	872	7.97	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.23	*	672	872	6.50	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.23	*	672	872	6.50	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.94	*	672	872	8.48	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.94	*	672	872	8.48	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.20	*	672	872	6.69	
PCB-110	*	*	n	NotFnd	1.14	*	672	872	7.05	
PCB-82	*	*	n	NotFnd	0.67	*	672	872	11.9	
PCB-124	*	*	n	NotFnd	0.99	*	408	680	5.69	
PCB-108	*	*	n	NotFnd	0.97	*	408	680	5.82	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	0.97	*	408	680	5.82	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.12	*	408	680	4.94	
13C-PCB-123	2.17e+07	1.57	y	38:23	1.00	10200				102
PCB-118	*	*	n	NotFnd	0.92	*	408	680	5.98	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	0.92	*	408	680	5.98	Co-elute PCB 118
13C-PCB-118	2.37e+07	1.58	y	38:32	1.05	10500				105
PCB-114	*	*	n	NotFnd	1.03	*	408	680	5.22	
13C-PCB-114	2.26e+07	1.59	y	39:10	1.02	10300				103
PCB-122	*	*	n	NotFnd	0.97	*	408	680	5.83	
PCB-105	*	*	n	NotFnd	1.00	*	408	680	6.13	
13C-PCB-105	2.21e+07	1.60	y	39:60	1.02	10100				101

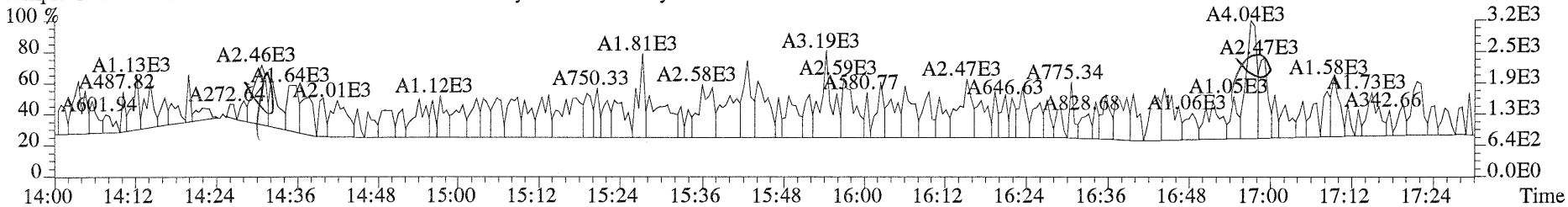
PCB-127	*	*	n	NotFnd	0.93	*		408	680	6.06	
PCB-126	*	*	n	NotFnd	1.00	*		408	680	6.36	
13C-PCB-126	2.16e+07	1.59	y	42:08	0.95	10500					105
PCB-151	*	*	n	NotFnd	0.70	*		512	472	6.86	
PCB-135	*	*	n	NotFnd	0.70	*		512	472	6.89	
PCB-144	*	*	n	NotFnd	0.71	*		512	472	6.82	
PCB-147	*	*	n	NotFnd	0.78	*		512	472	6.22	
PCB-139	*	*	n	NotFnd	0.76	*		512	472	6.33	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	0.76	*		512	472	6.33	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.75	*		512	472	6.41	
PCB-143	*	*	n	NotFnd	0.70	*		512	472	6.92	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.70	*		512	472	6.92	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.70	*		512	472	6.88	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.70	*		512	472	6.88	Co-elute PCB 131
PCB-142	5.79e+06	1.26	y	39:32	0.63	3780		-	-	*	
PCB-165	*	*	n	NotFnd	0.84	*		512	472	5.73	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	0.84	*		512	472	5.73	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	0.77	*		512	472	6.25	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	0.77	*		512	472	6.25	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	0.86	*		512	472	5.59	
PCB-168	1.45e+05	1.15	y	40:11	0.92	65.1		-	-	*	
PCB-141	*	*	n	NotFnd	0.72	*		512	472	6.68	
PCB-137	*	*	n	NotFnd	0.63	*		512	472	7.61	
PCB-130	*	*	n	NotFnd	0.69	*		512	472	6.97	
PCB-138	*	*	n	NotFnd	0.94	*		512	472	5.12	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	0.94	*		512	472	5.12	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	0.94	*		512	472	5.12	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	0.95	*		512	472	5.10	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	0.95	*		512	472	5.10	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.59	*		512	472	8.20	
PCB-166	*	*	n	NotFnd	0.90	*		512	472	5.37	
PCB-159	*	*	n	NotFnd	0.97	*		512	472	4.99	
PCB-128	*	*	n	NotFnd	0.79	*		512	472	6.14	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	0.79	*		512	472	6.14	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	0.88	*		512	472	5.62	
13C-PCB-167	2.52e+07	1.27	y	43:29	1.14	10300					103
PCB-156	*	*	n	NotFnd	0.93	*		512	472	5.17	
13C-PCB-156	2.41e+07	1.26	y	44:43	1.12	10000					100
PCB-157	*	*	n	NotFnd	0.89	*		512	472	5.79	
13C-PCB-157	2.48e+07	1.27	y	44:59	1.14	10100					101
PCB-169	*	*	n	NotFnd	0.88	*		512	472	5.00	
13C-PCB-169	2.29e+07	1.23	y	46:51	1.07	10000					100

FAL ID: 10322-001-0001-SA Filename: 06JAN17Z Sam:5 Acquired: 6-JAN-17 12:07:33 ICal: DAILY209FAL4-1-6-17
Client ID: LDW-BA-SU-S010-TB-EXSITU1 ConCal: ST010617Z1 EndCal: ST010617Z2
Results: 10322 GC Column: DB1 Amount: 1.000

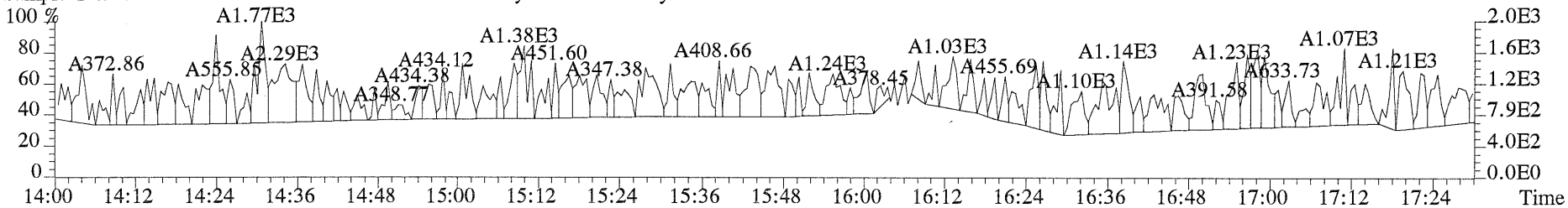
PCB-188	*	*	n	NotFnd	1.00	*	724	444	4.79	
13C-PCB-188	2.66e+07	1.07	y	39:45	1.26	9880				98.8
PCB-184	1.50e+07	1.05	y	40:11	1.08	5630	-	-	*	
PCB-179	*	*	n	NotFnd	1.04	*	724	444	4.54	
PCB-176	*	*	n	NotFnd	1.01	*	724	444	4.67	
PCB-186	*	*	n	NotFnd	1.00	*	724	444	4.73	
PCB-178	*	*	n	NotFnd	0.74	*	724	444	6.43	
PCB-175	*	*	n	NotFnd	0.78	*	724	444	6.06	
PCB-187	*	*	n	NotFnd	0.83	*	724	444	5.72	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.83	*	724	444	5.72	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.82	*	724	444	5.75	
PCB-185	*	*	n	NotFnd	0.76	*	724	444	6.21	
PCB-174	*	*	n	NotFnd	0.74	*	724	444	6.38	
PCB-181	*	*	n	NotFnd	0.79	*	724	444	5.95	
PCB-177	*	*	n	NotFnd	0.71	*	724	444	6.64	
PCB-171	*	*	n	NotFnd	0.74	*	724	444	6.39	
PCB-173	*	*	n	NotFnd	0.68	*	724	444	6.93	
PCB-172	1.87e+05	1.09	y	45:30	0.71	106	-	-	*	
PCB-192	8.81e+06	1.04	y	45:42	0.92	3890	-	-	*	
PCB-180	*	*	n	NotFnd	0.92	*	724	444	5.14	
PCB-193	*	*	n	NotFnd	1.01	*	724	444	4.67	
PCB-191	*	*	n	NotFnd	0.97	*	724	444	4.89	
PCB-170	*	*	n	NotFnd	0.67	*	724	444	7.10	
PCB-190	*	*	n	NotFnd	0.93	*	724	444	5.10	
PCB-189	*	*	n	NotFnd	1.00	*	724	444	4.62	
13C-PCB-189	2.26e+07	1.04	y	48:32	1.07	9840				98.4
PCB-202	*	*	n	NotFnd	0.83	*	324	488	4.29	
PCB-201	*	*	n	NotFnd	0.84	*	324	488	4.21	
PCB-204	1.53e+07	0.89	y	45:29	0.87	7060	-	-	*	
PCB-197	1.32e+05	0.78	y	45:45	0.89	59.4	-	-	*	
PCB-200	*	*	n	NotFnd	0.84	*	324	488	4.22	
PCB-198	*	*	n	NotFnd	0.61	*	324	488	5.81	
PCB-199	*	*	n	NotFnd	0.63	*	324	488	5.69	
PCB-203	*	*	n	NotFnd	0.67	*	324	488	5.33	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.67	*	324	488	5.33	Co-elute PCB 203
13C-PCB-202	2.48e+07	0.91	y	44:53	1.12	10300				103
13C-PCB-178	1.84e+07	1.06	y	42:23	0.89	9610				96.1
13C-PCB-138	2.14e+07	1.27	y	41:37	-	51.7				
PCB-195	*	*	n	NotFnd	0.72	*	332	388	4.56	
PCB-194	*	*	n	NotFnd	0.77	*	332	388	4.27	
PCB-205	*	*	n	NotFnd	0.99	*	332	388	3.32	
13C-PCB-205	1.81e+07	0.89	y	50:13	1.22	10100				101
PCB-208	*	*	n	NotFnd	0.89	*	276	292	2.59	
13C-PCB-208	1.90e+07	0.79	y	49:15	1.31	9830				98.3
PCB-207	6.37e+04	1.23	y	49:34	0.98	40.0	-	-	*	
PCB-206	*	*	n	NotFnd	0.92	*	276	292	3.94	
13C-PCB-206	1.36e+07	0.80	y	51:27	0.97	9590				95.9
PCB-209	5.87e+04	1.07	y	52:43	0.96	29.9	-	-	*	
13C-PCB-209	2.05e+07	1.20	y	52:42	1.46	9530				95.3
13C-PCB-194	1.47e+07	0.92	y	49:58	-	51.6				

Analyst: _____ Date: 1/10/17

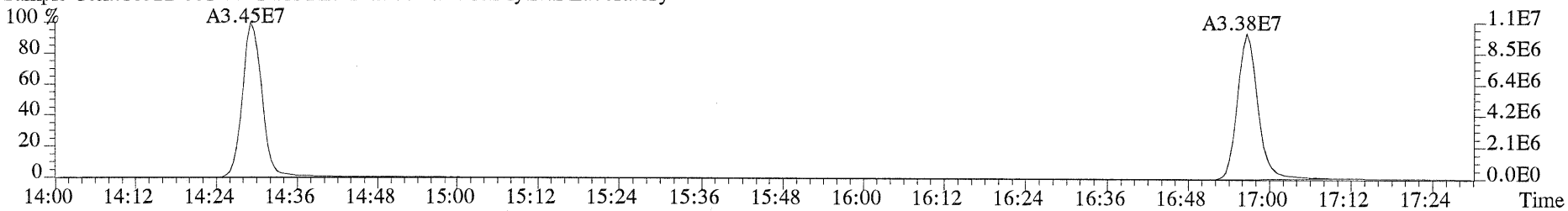
File:06JAN17Z #1-783 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



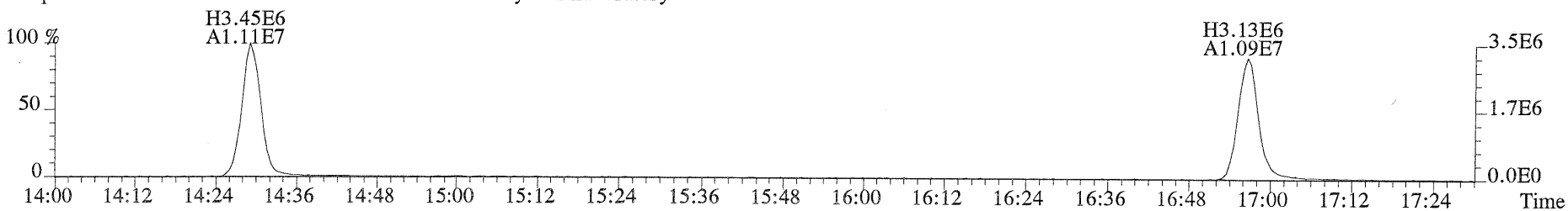
File:06JAN17Z #1-783 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



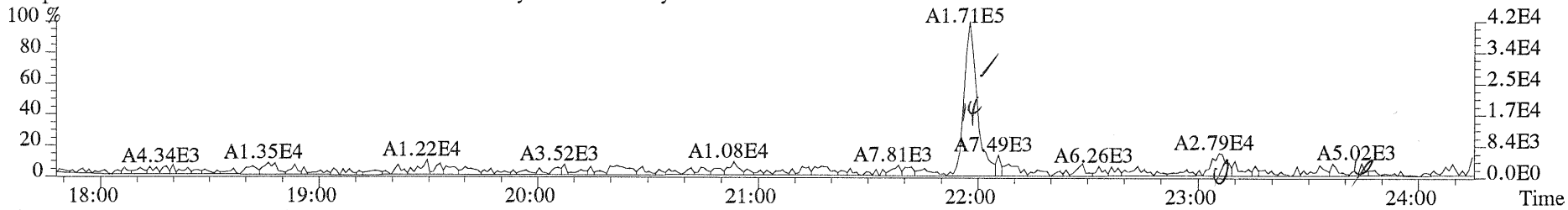
File:06JAN17Z #1-783 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



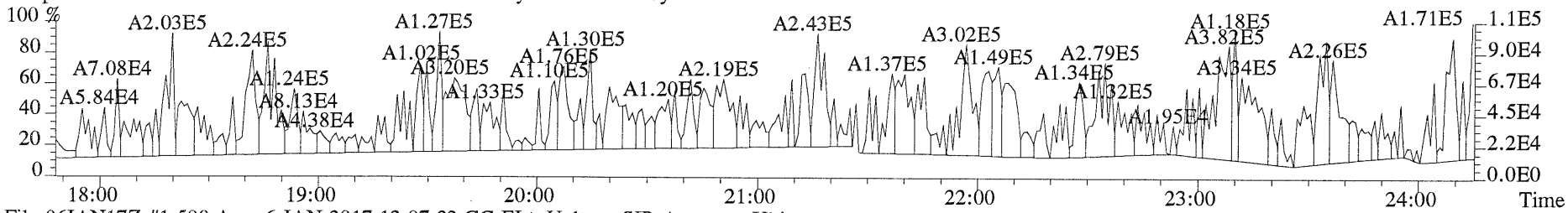
File:06JAN17Z #1-783 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



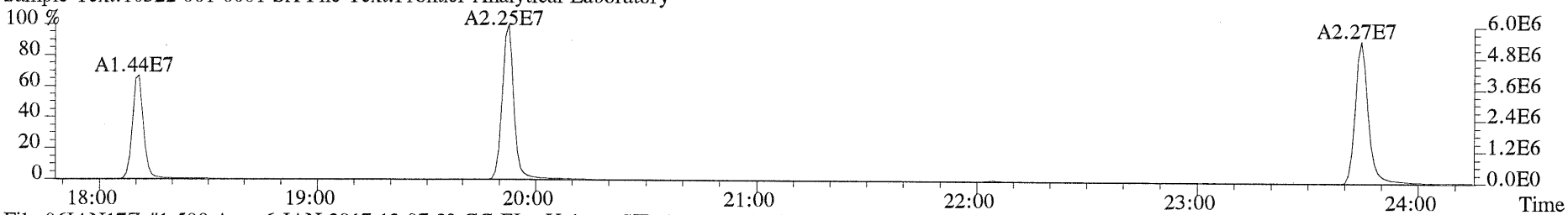
File:06JAN17Z #1-509 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



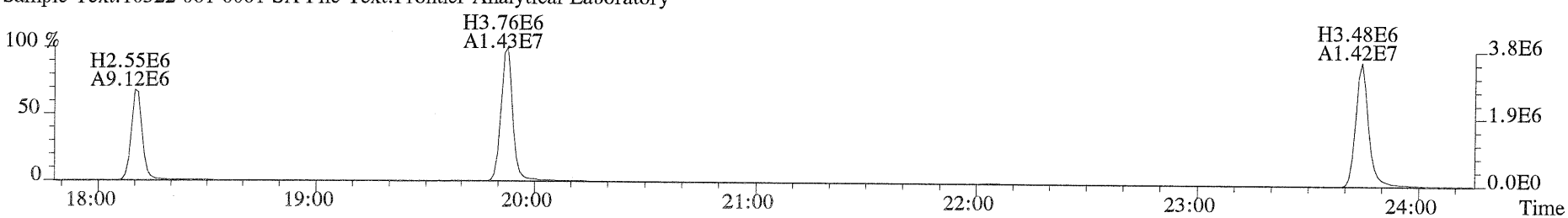
File:06JAN17Z #1-509 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



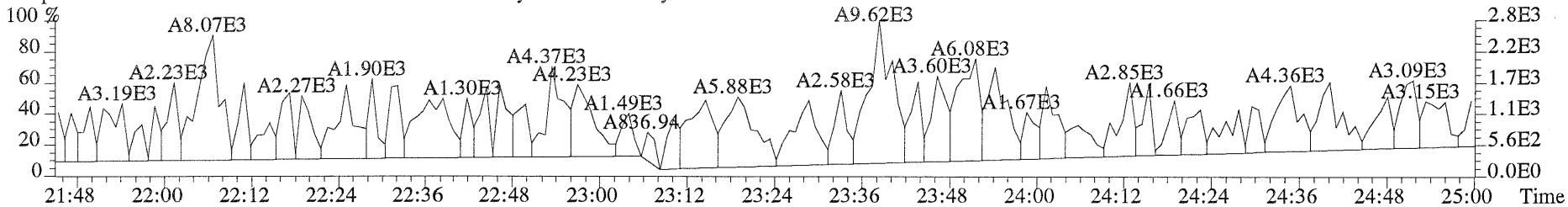
File:06JAN17Z #1-509 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



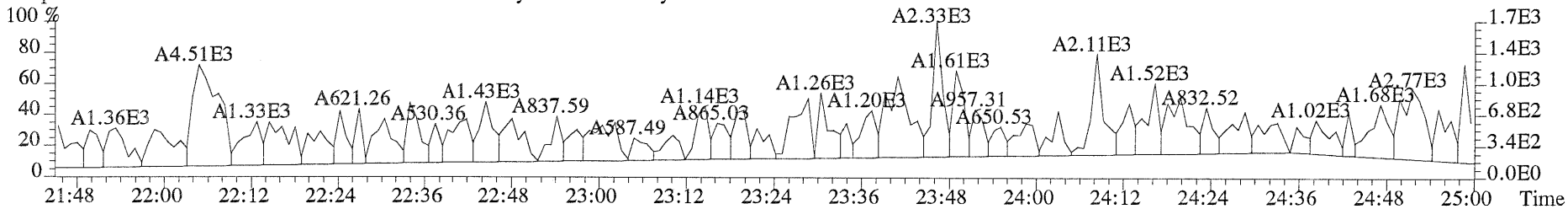
File:06JAN17Z #1-509 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



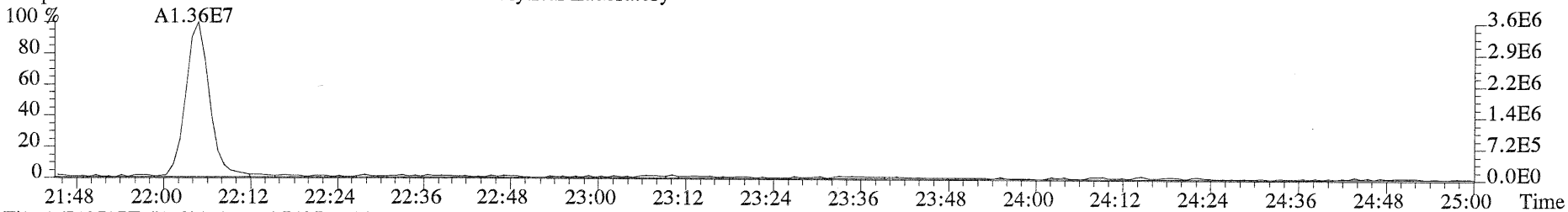
File:06JAN17Z #1-509 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



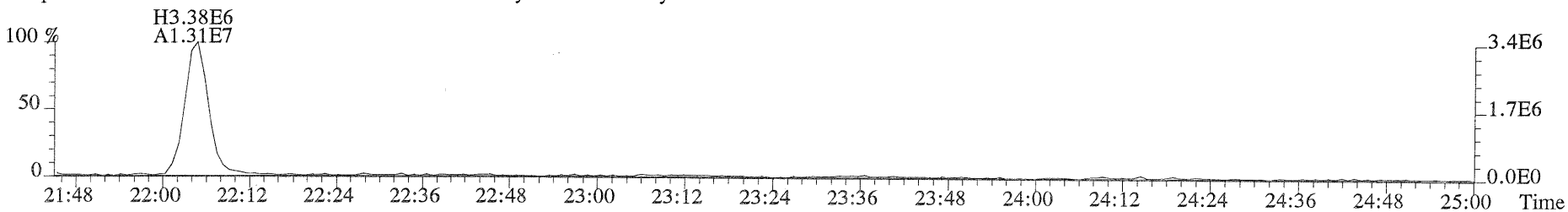
File:06JAN17Z #1-509 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



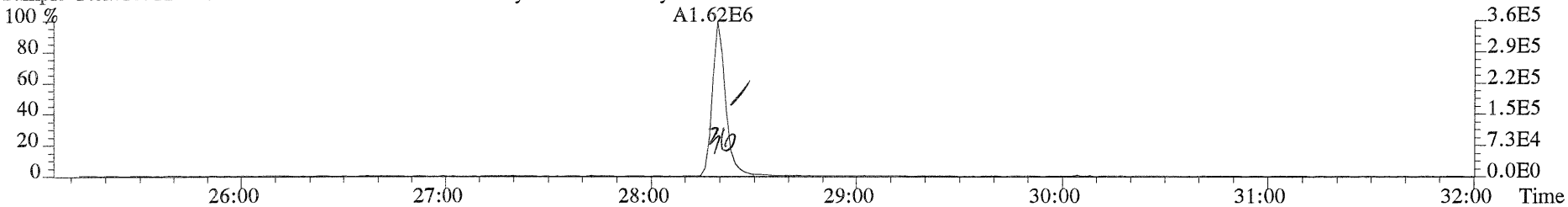
File:06JAN17Z #1-509 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



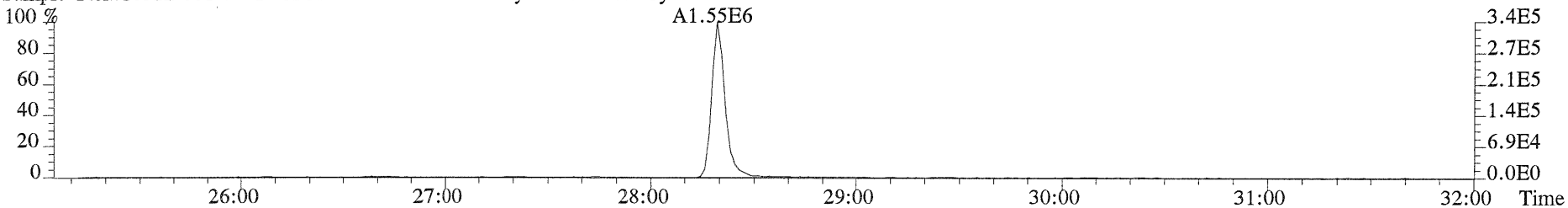
File:06JAN17Z #1-509 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



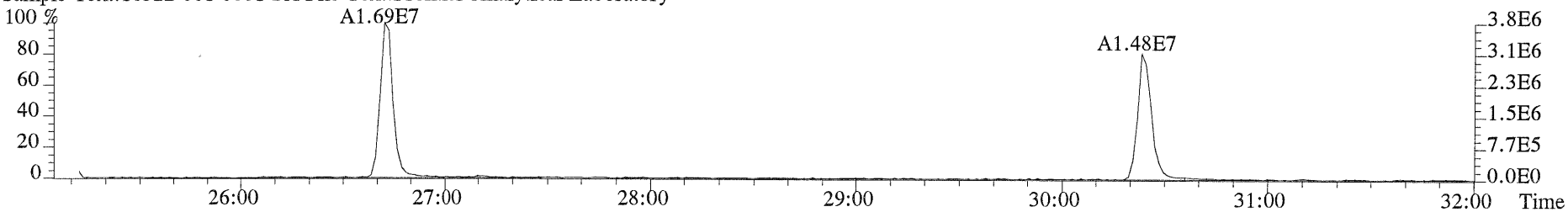
File:06JAN17Z #1-407 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



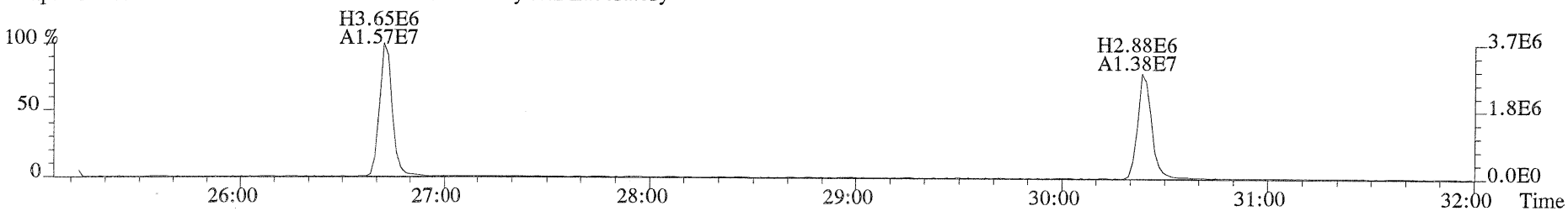
File:06JAN17Z #1-407 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



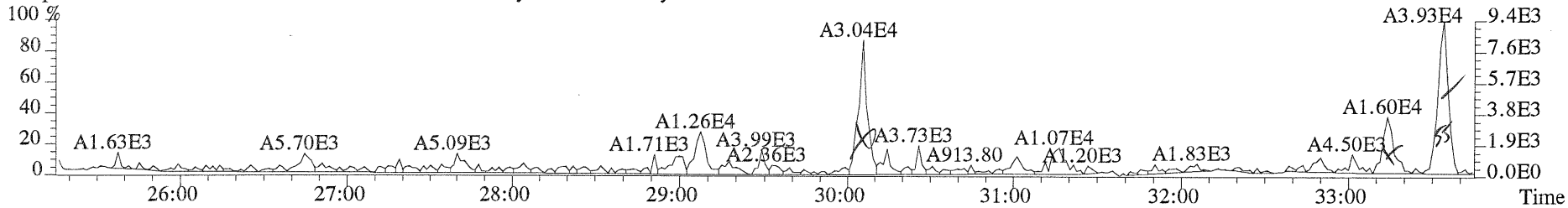
File:06JAN17Z #1-407 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



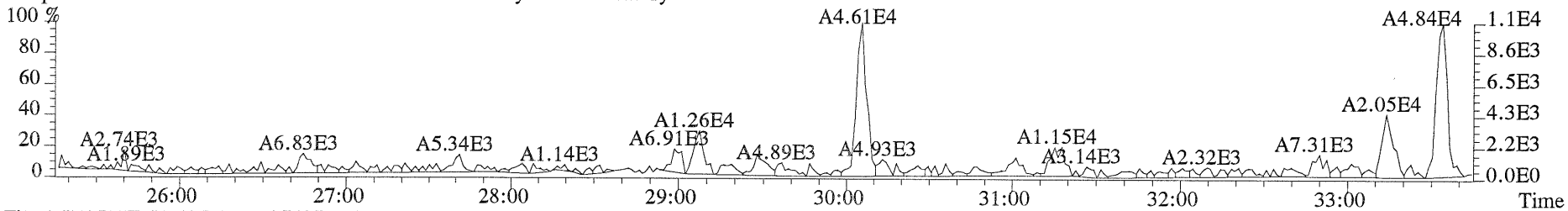
File:06JAN17Z #1-407 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



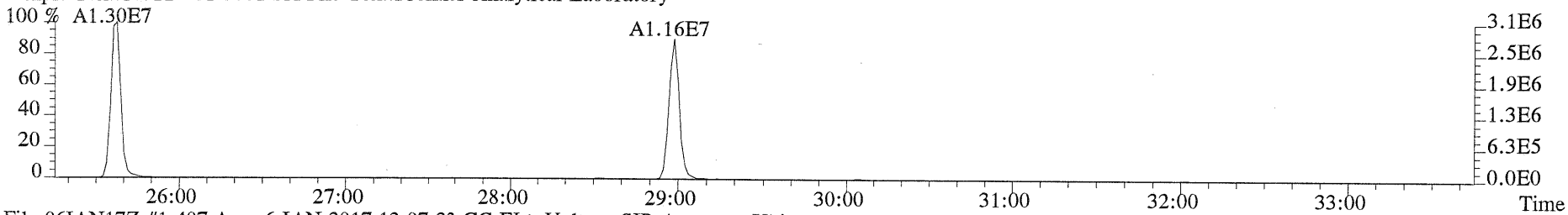
File:06JAN17Z #1-407 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



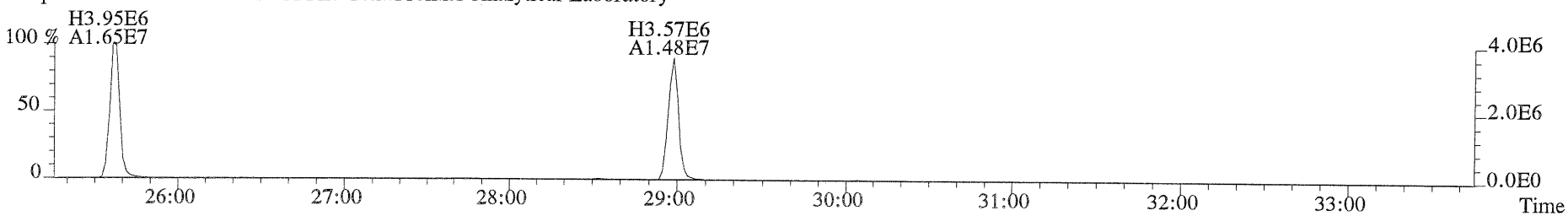
File:06JAN17Z #1-407 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



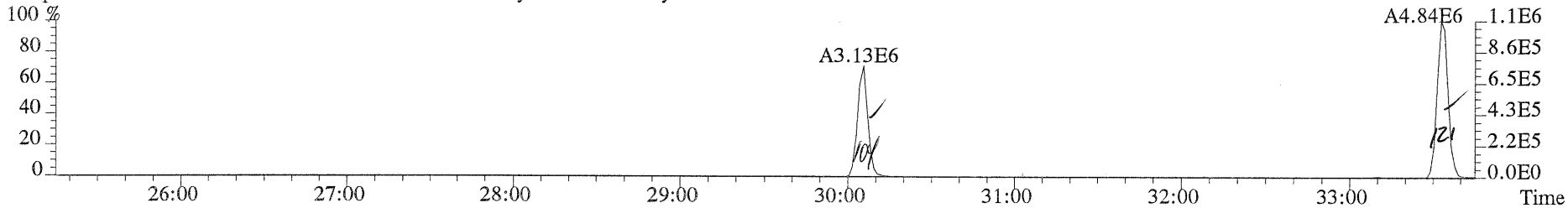
File:06JAN17Z #1-407 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-407 Acq: 6-JAN-2017 12:07:33 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:10322-001-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-407 Acq: 6-JAN-2017 12:07:33 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:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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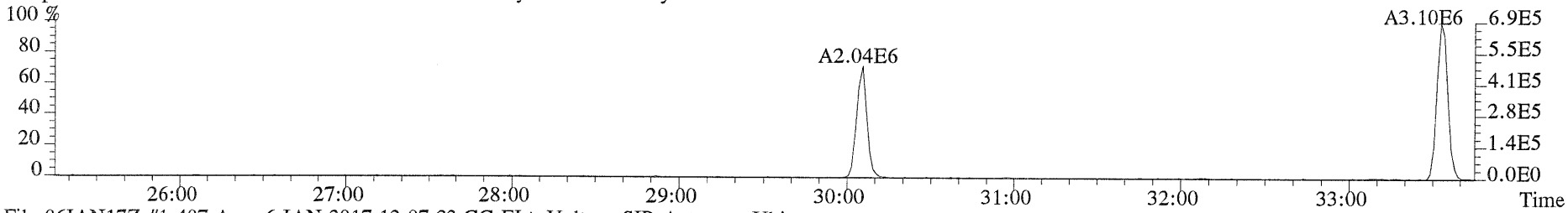
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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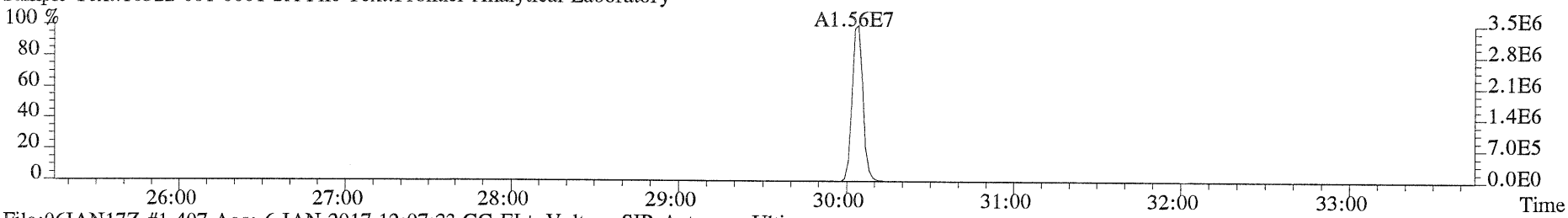
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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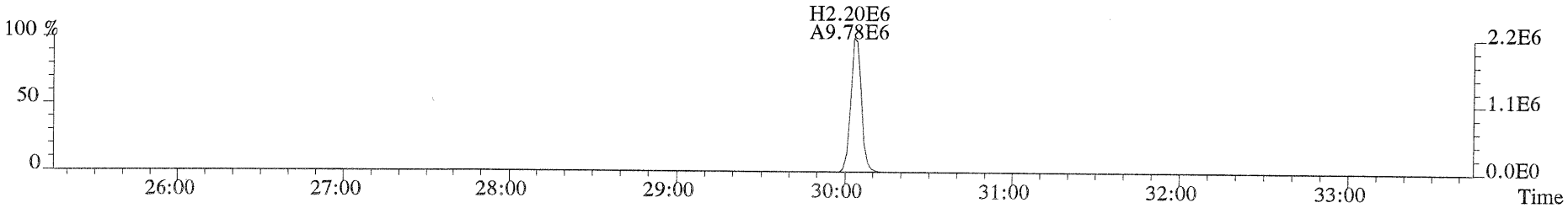

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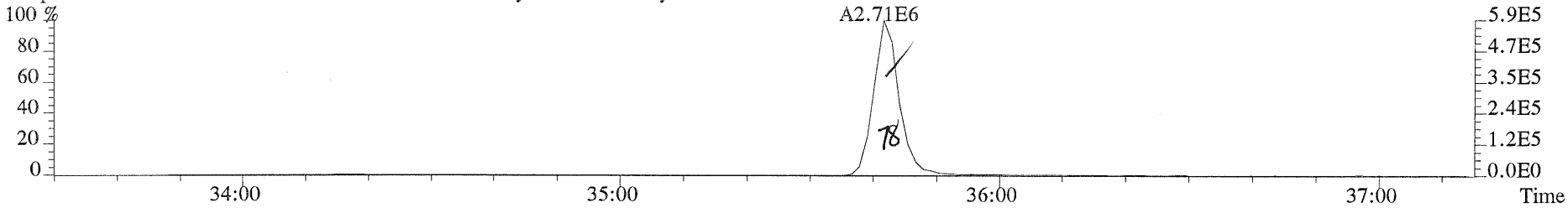

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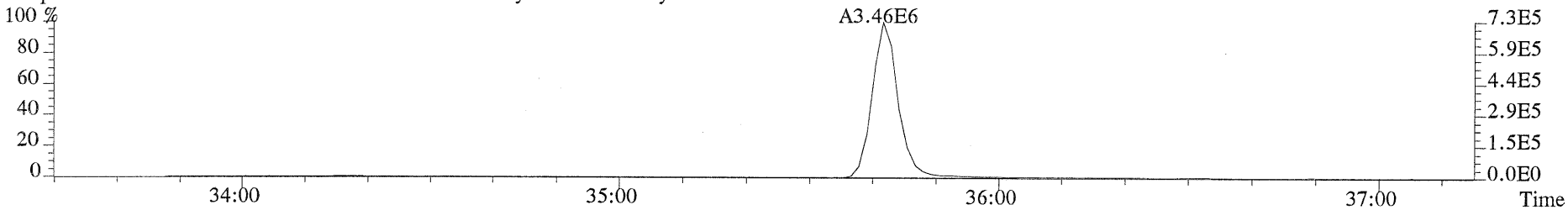
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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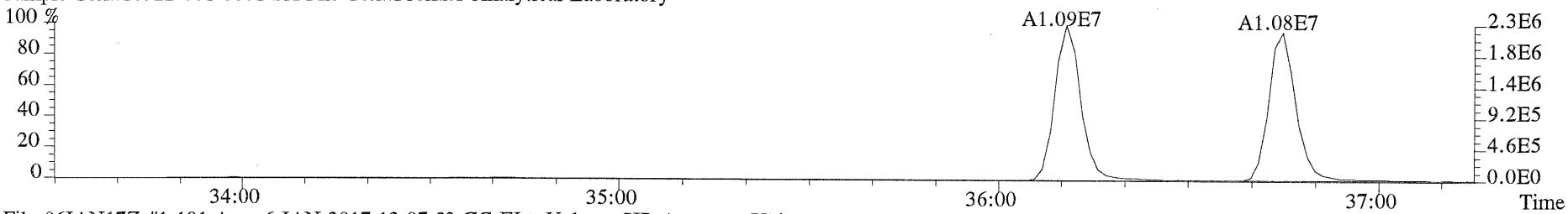
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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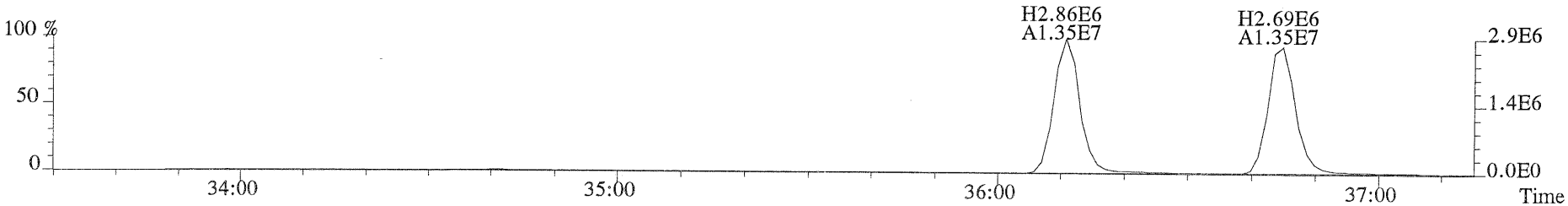
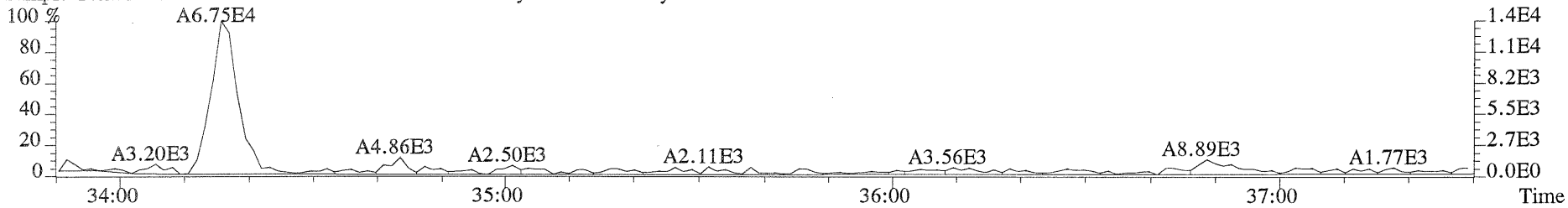
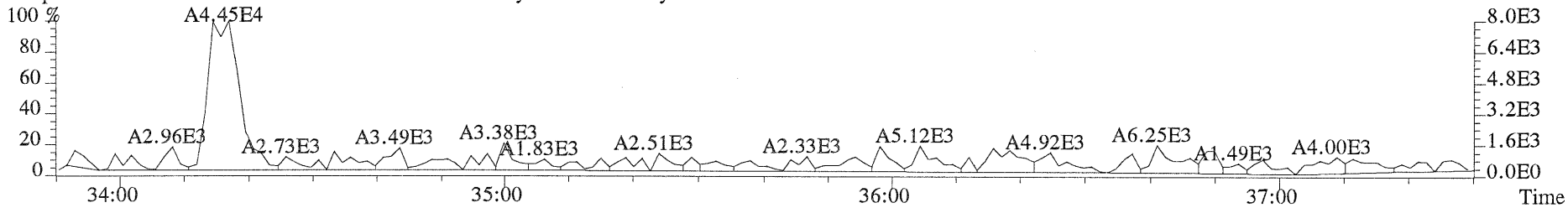
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-181 Acq: 6-JAN-2017 12:07:33 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:10322-001-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-181 Acq: 6-JAN-2017 12:07:33 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:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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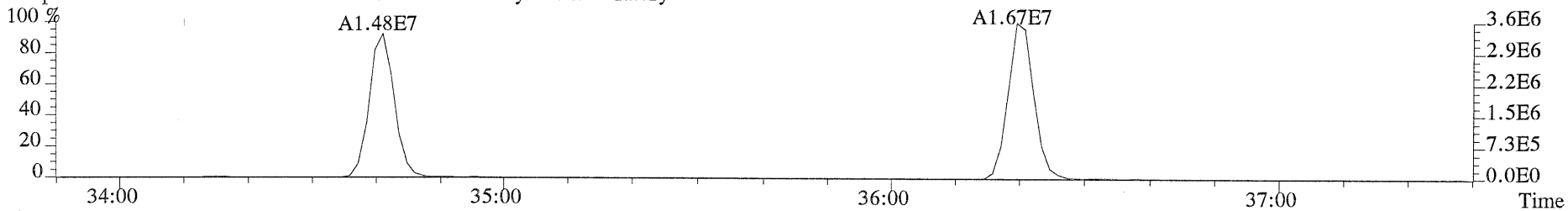

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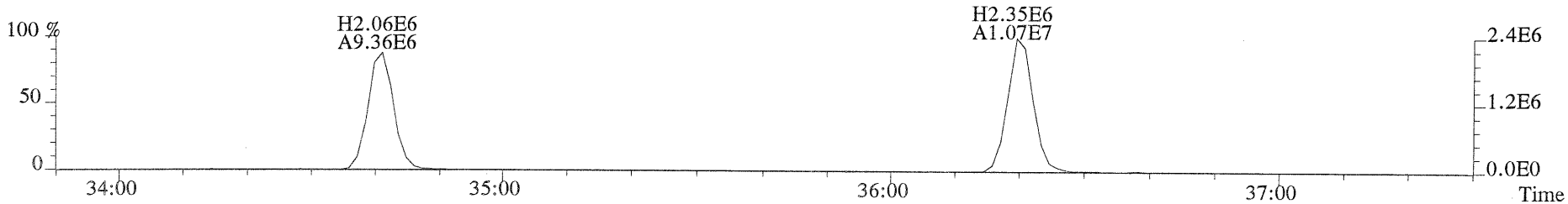
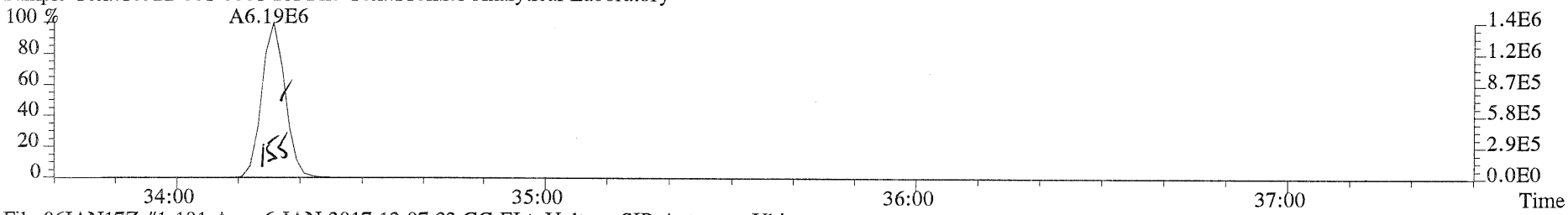
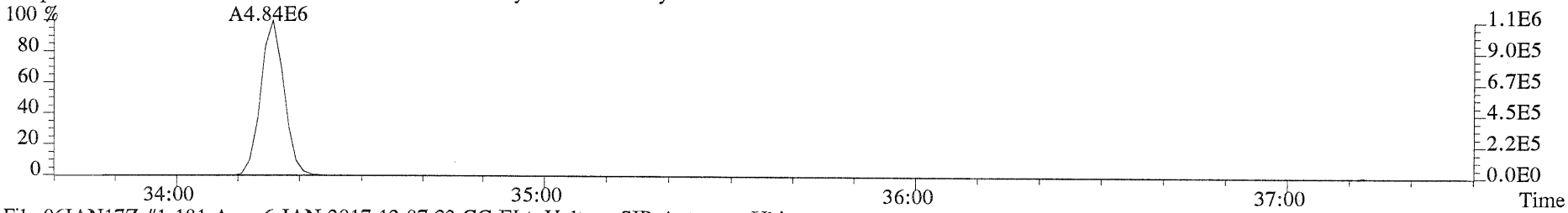
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-181 Acq: 6-JAN-2017 12:07:33 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:10322-001-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-181 Acq: 6-JAN-2017 12:07:33 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:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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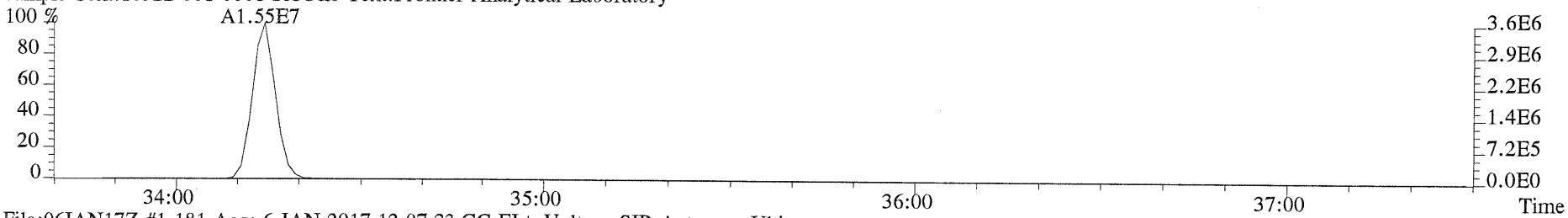
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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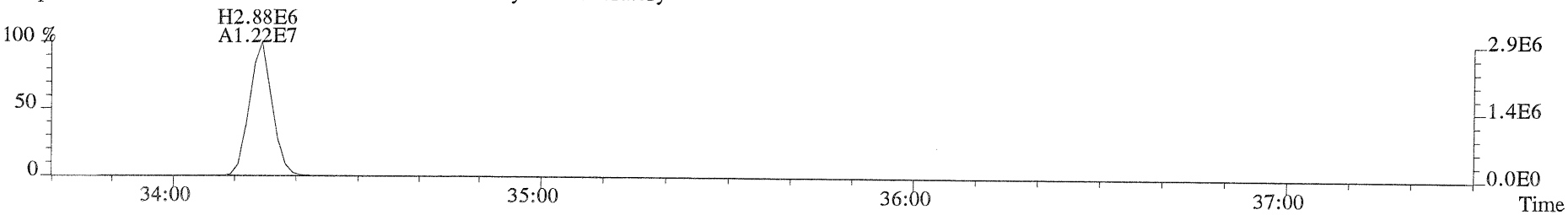
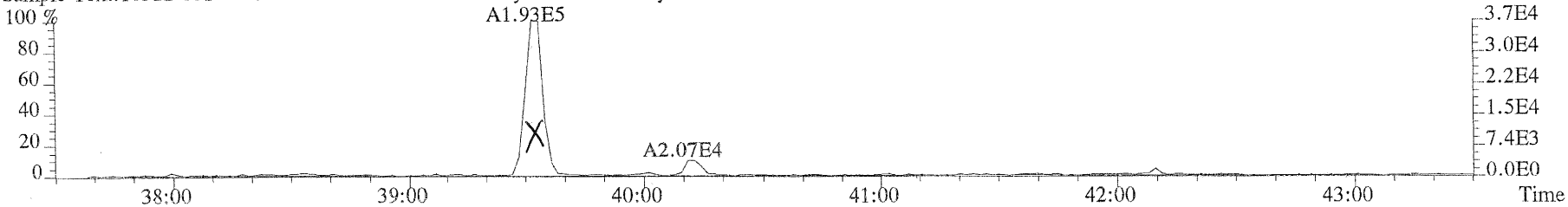
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 12:07:33 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:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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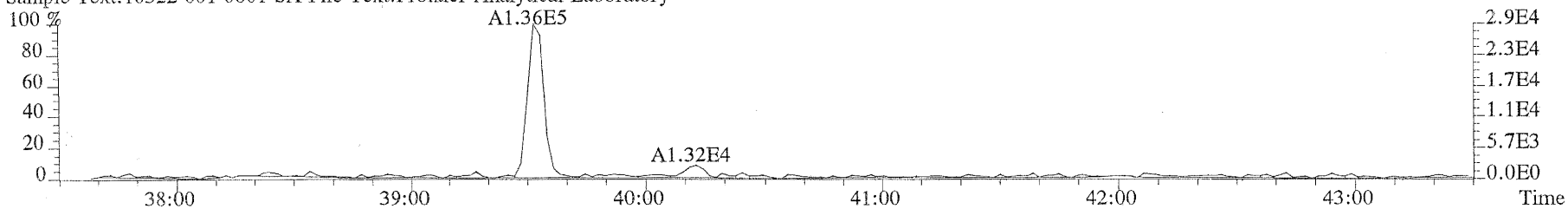
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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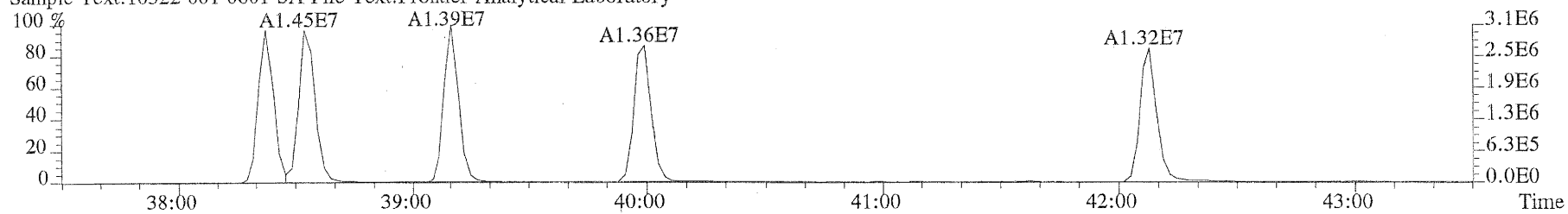

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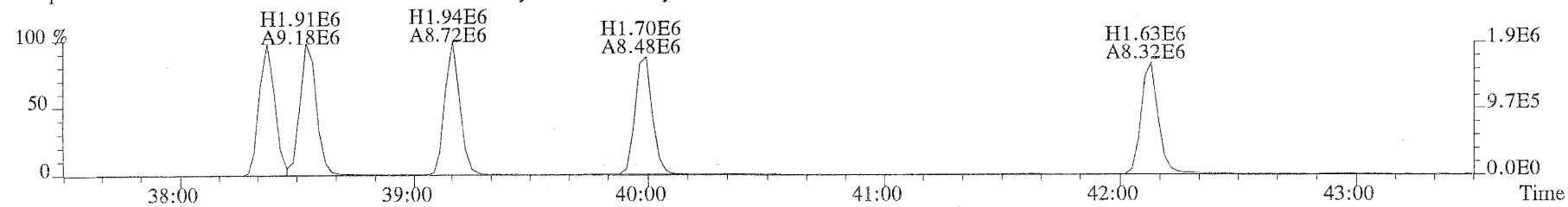

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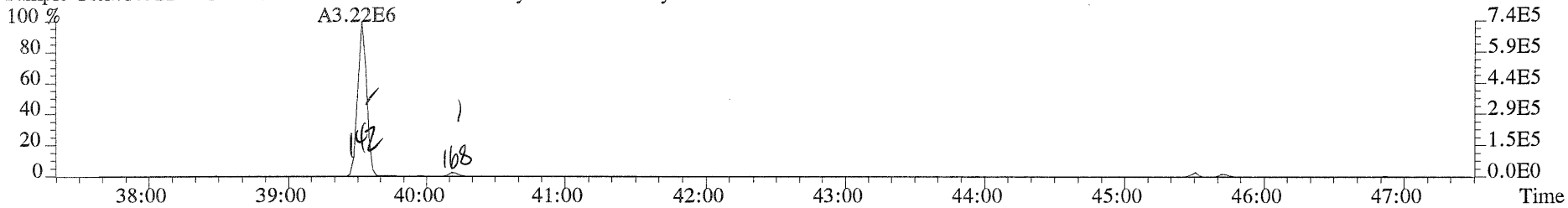
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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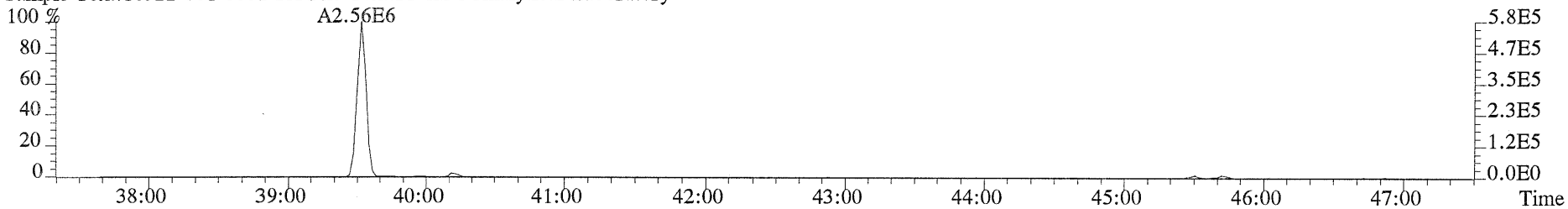
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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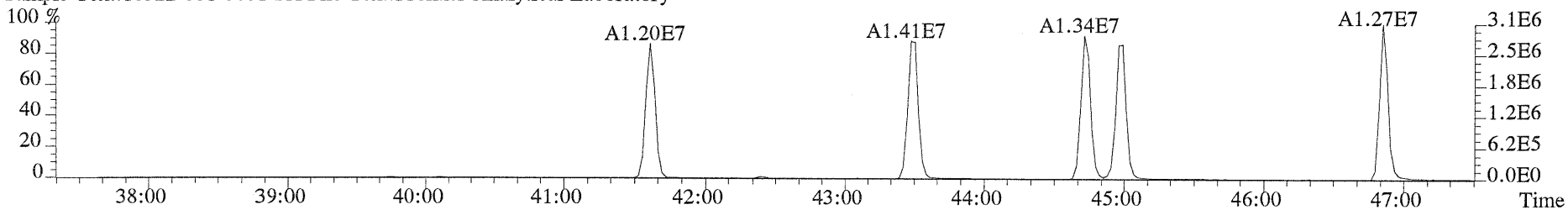
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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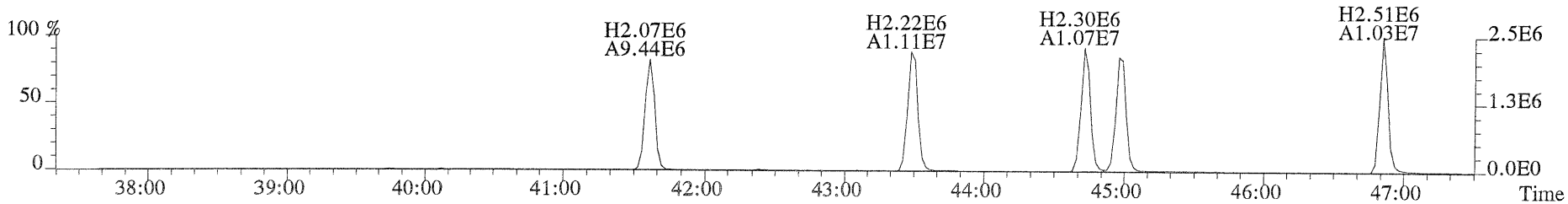
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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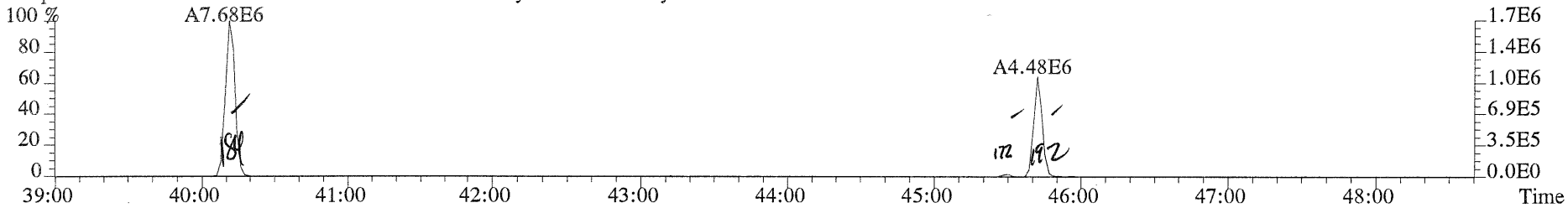
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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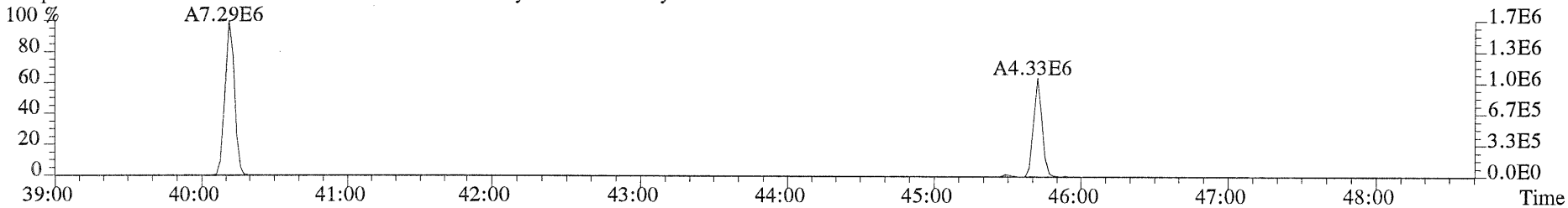
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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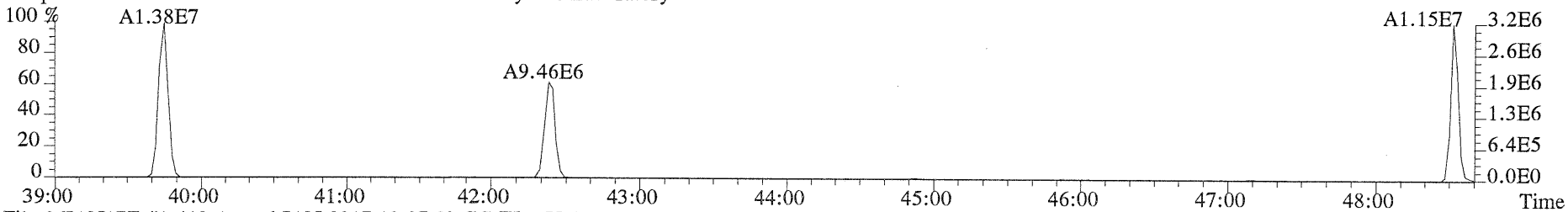
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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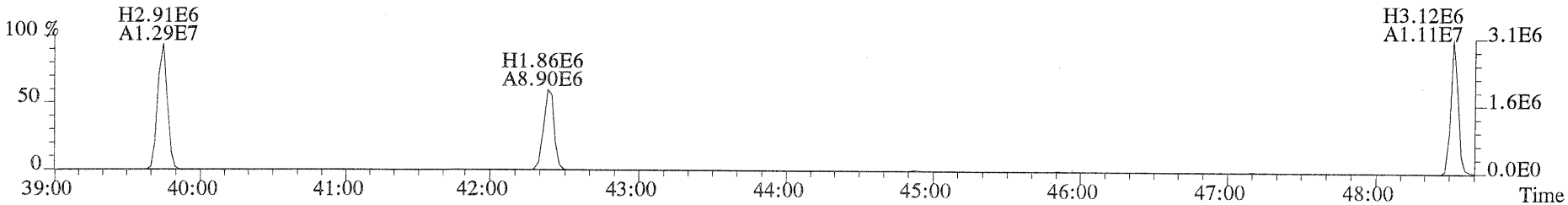
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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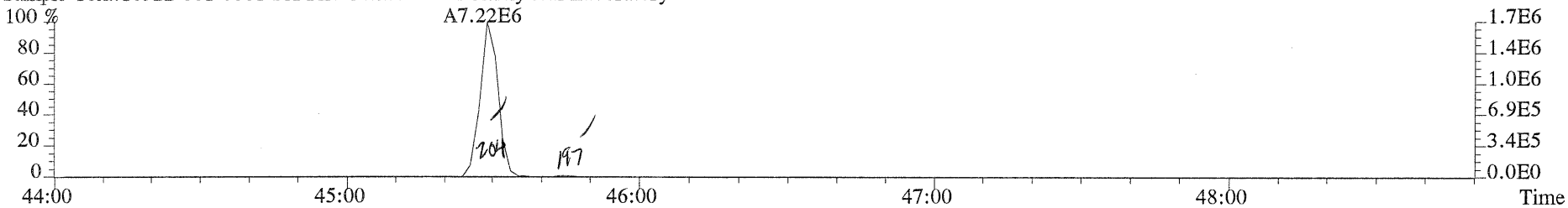
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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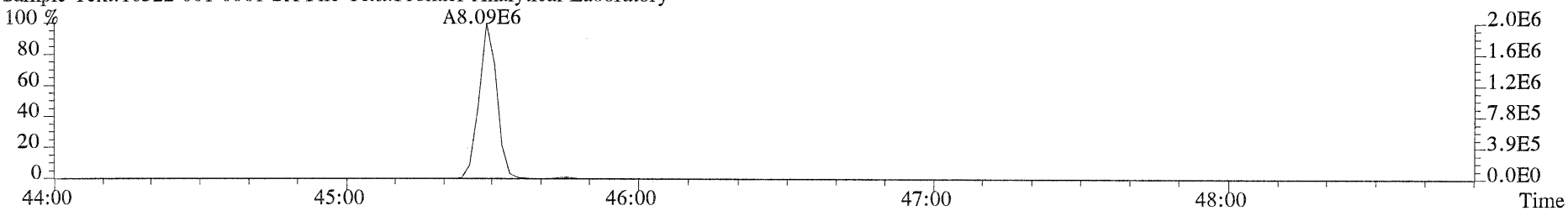
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



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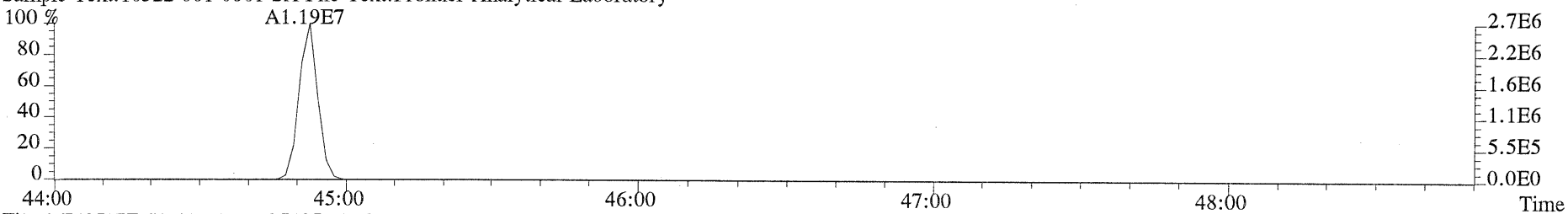
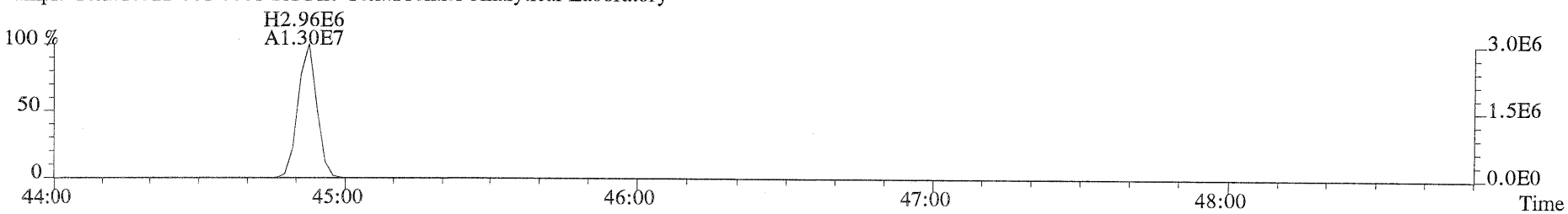
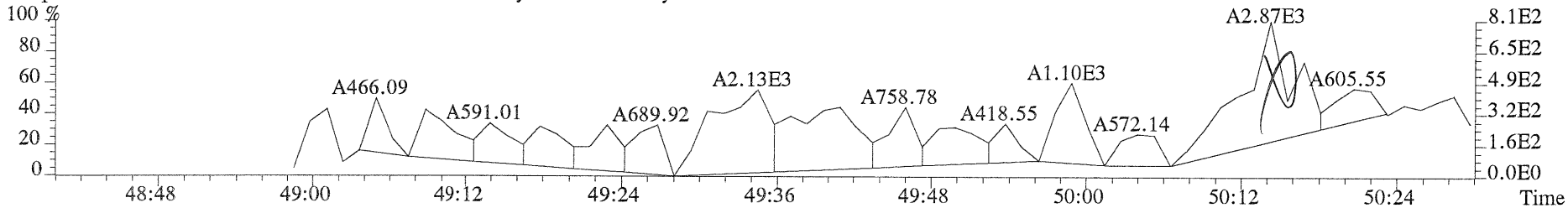
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



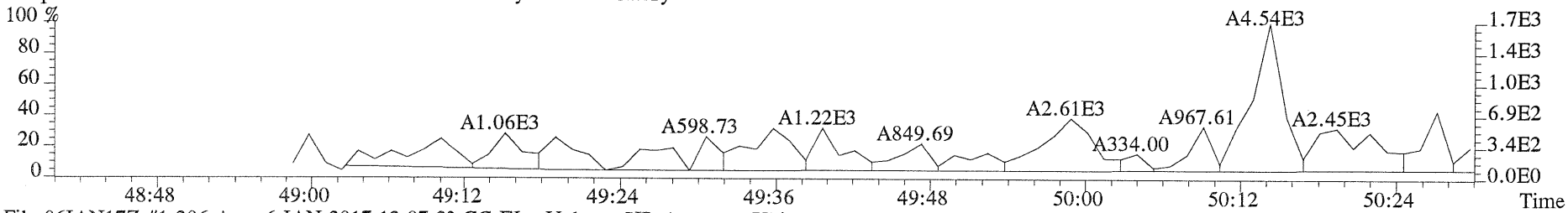
File:06JAN17Z #1-413 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



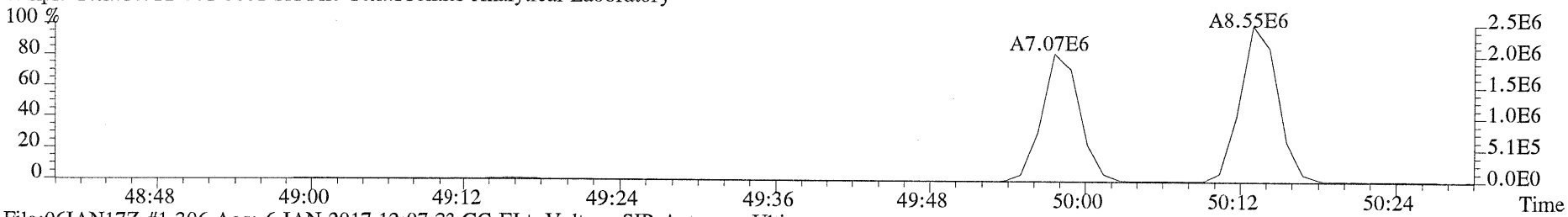
File:06JAN17Z #1-306 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



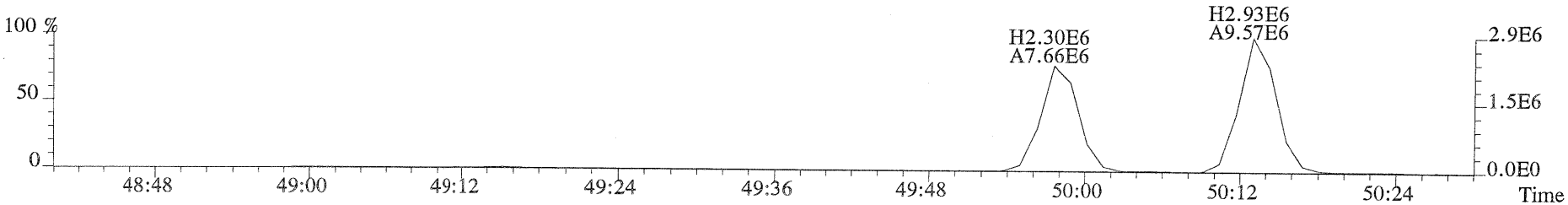
File:06JAN17Z #1-306 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



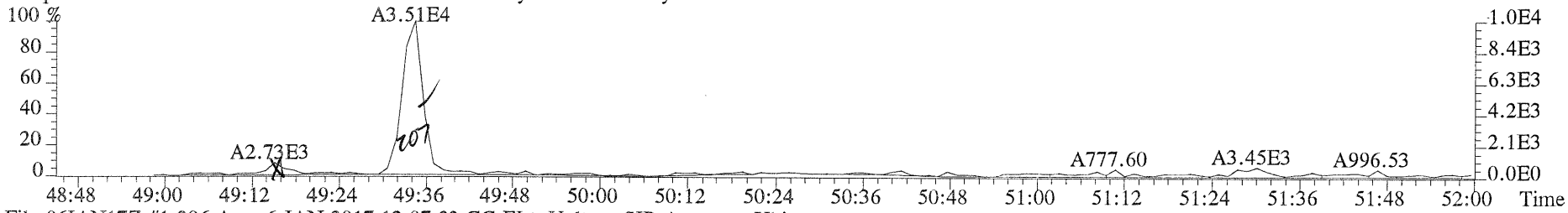
File:06JAN17Z #1-306 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



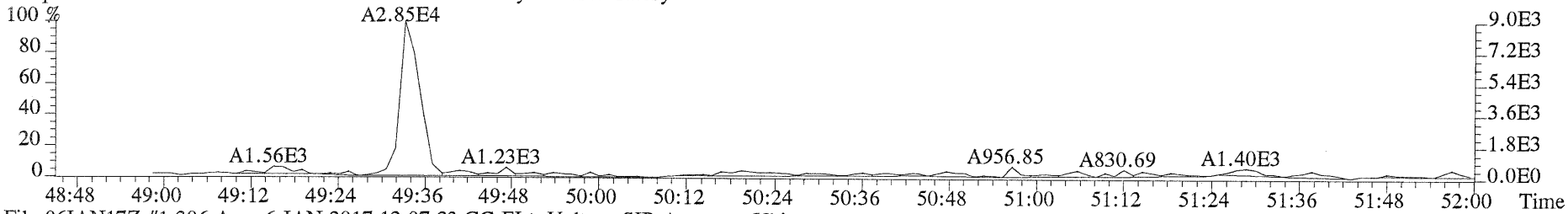
File:06JAN17Z #1-306 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



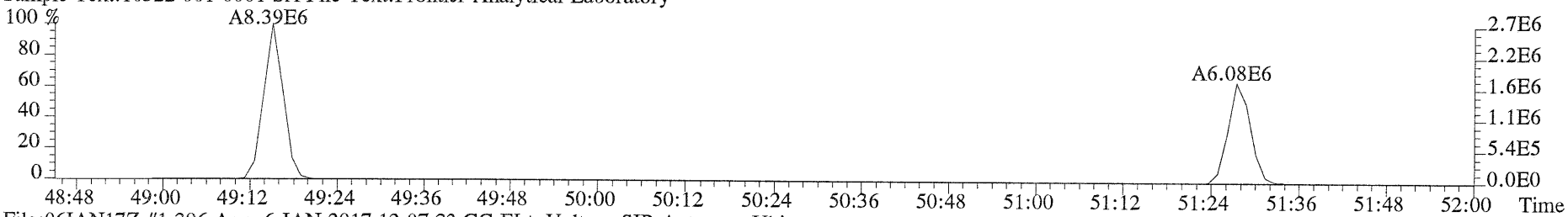
File:06JAN17Z #1-306 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



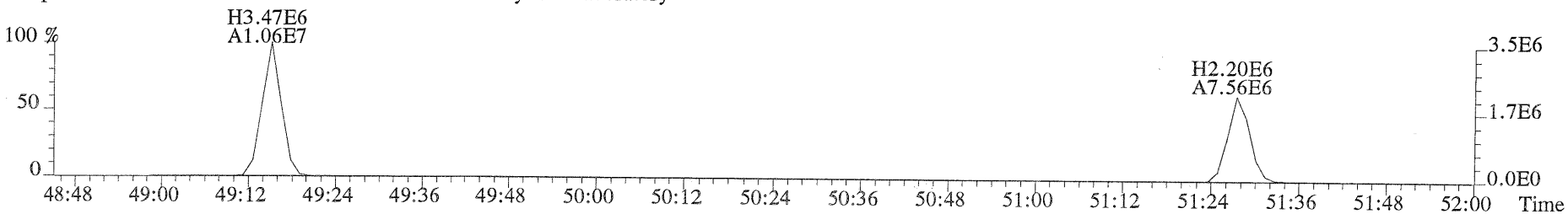
File:06JAN17Z #1-306 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



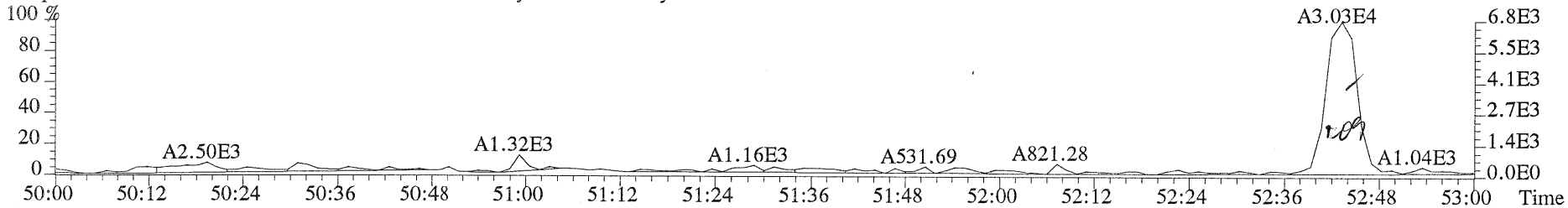
File:06JAN17Z #1-306 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



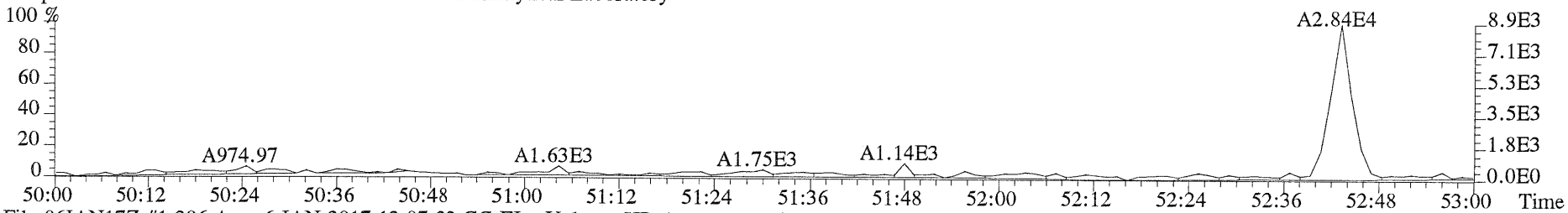
File:06JAN17Z #1-306 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



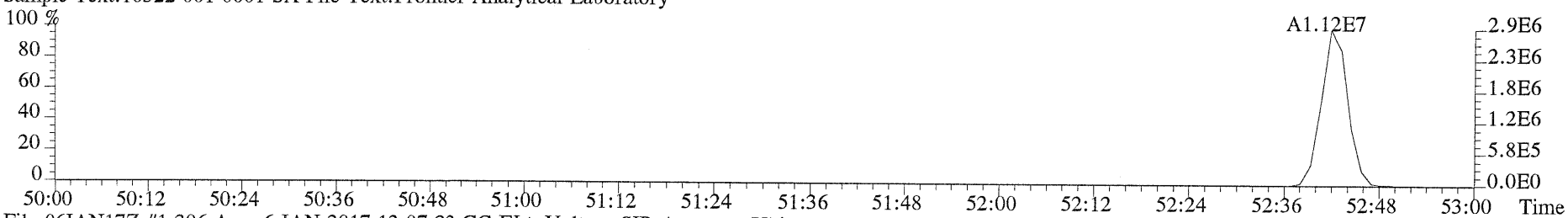
File:06JAN17Z #1-306 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



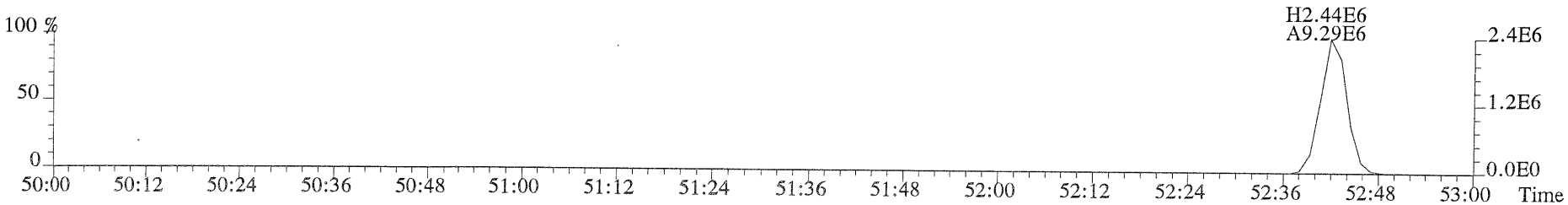
File:06JAN17Z #1-306 Acq: 6-JAN-2017 12:07:33 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-001-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-306 Acq: 6-JAN-2017 12:07:33 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:10322-001-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-306 Acq: 6-JAN-2017 12:07:33 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:10322-001-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10322-002-0001-SA Filename: 06JAN17Z Sam:6 Acquired: 6-JAN-17 13:05:52 ICal: DAILY209FAL4-1-6-17
Client ID: LDW-BA-SU-S010-TB-EXSITU2 ConCal: ST010617Z1 EndCal: ST010617Z2
Results: 10322 GC Column: DB1 Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	0.90	*		2240	1740	7.85	
13C-PCB-1	4.42e+07	3.12	y	14:30	1.12	10500					105
PCB-2	*	*	n	NotFnd	0.85	*		2240	1740	8.80	
PCB-3	*	*	n	NotFnd	0.89	*		2240	1740	8.82	
13C-PCB-3	4.42e+07	3.17	y	16:57	1.14	10300					103
PCB-4	*	*	n	NotFnd	1.09	*		2560	1100	12.6	
PCB-10	*	*	n	NotFnd	1.01	*		2560	1100	11.9	
13C-PCB-4	2.32e+07	1.55	y	18:11	0.61	10100					101
PCB-9	*	*	n	NotFnd	1.10	*		2560	1100	10.9	
PCB-7	*	*	n	NotFnd	1.14	*		2560	1100	10.5	
PCB-6	*	*	n	NotFnd	1.14	*		2560	1100	10.5	
PCB-8	*	*	n	NotFnd	1.12	*		2560	1100	10.7	
PCB-5	*	*	n	NotFnd	1.08	*		2560	1100	11.1	
PCB-14	1.65e+05	1.59	y	21:58	1.10	49.9		-	-	*	
PCB-11	*	*	n	NotFnd	1.07	*		2560	1100	11.2	
PCB-13	*	*	n	NotFnd	1.07	*		2560	1100	11.2	
PCB-12	*	*	n	NotFnd	1.04	*		2560	1100	11.5	
PCB-15	*	*	n	NotFnd	0.99	*		2560	1100	11.0	
13C-PCB-15	3.70e+07	1.58	y	23:45	1.00	9860					98.6
PCB-19	*	*	n	NotFnd	0.94	*		1420	568	8.16	
PCB-30	*	*	n	NotFnd	1.34	*		1420	568	5.71	
PCB-18	*	*	n	NotFnd	0.94	*		1420	568	8.12	
PCB-17	*	*	n	NotFnd	1.02	*		1420	568	7.51	
PCB-27	*	*	n	NotFnd	1.31	*		1420	568	5.84	
PCB-24	*	*	n	NotFnd	1.35	*		1420	568	5.66	
PCB-16	*	*	n	NotFnd	1.01	*		1420	568	7.59	
PCB-32	*	*	n	NotFnd	1.28	*		1420	568	5.99	
13C-PCB-19	2.57e+07	1.05	y	22:04	0.68	10100					101
13C-PCB-9	3.75e+07	1.58	y	19:53	-	56.3					
PCB-34	*	*	n	NotFnd	0.91	*		1220	544	8.38	
PCB-23	*	*	n	NotFnd	1.03	*		1220	544	7.39	
PCB-29	*	*	n	NotFnd	1.04	*		1220	544	7.29	
PCB-26	*	*	n	NotFnd	1.01	*		1220	544	7.54	
PCB-25	*	*	n	NotFnd	1.17	*		1220	544	6.53	
PCB-31	*	*	n	NotFnd	1.02	*		1220	544	7.48	
PCB-28	*	*	n	NotFnd	1.18	*		1220	544	6.45	
PCB-20	*	*	n	NotFnd	1.02	*		1220	544	7.42	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.02	*		1220	544	7.42	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.02	*		1220	544	7.42	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.03	*		1220	544	7.38	
PCB-36	2.64e+06	1.06	y	28:20	0.99	943		-	-	*	
PCB-39	*	*	n	NotFnd	0.99	*		1220	544	7.70	
PCB-38	*	*	n	NotFnd	1.00	*		1220	544	7.64	
PCB-35	*	*	n	NotFnd	0.94	*		1220	544	8.10	
PCB-37	*	*	n	NotFnd	1.06	*		1220	544	7.16	
13C-PCB-37	2.81e+07	1.06	y	30:24	1.09	9760					97.6

PCB-54	*	*	n	NotFnd	0.95	*	500	660	4.14	
PCB-50	*	*	n	NotFnd	0.73	*	500	660	5.36	
PCB-53	*	*	n	NotFnd	0.73	*	500	660	5.39	
PCB-51	*	*	n	NotFnd	0.75	*	500	660	5.24	
PCB-45	*	*	n	NotFnd	0.65	*	500	660	6.05	
PCB-46	*	*	n	NotFnd	0.62	*	500	660	6.37	
PCB-52	*	*	n	NotFnd	0.86	*	500	660	4.57	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	0.86	*	500	660	4.57	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.04	*	500	660	3.77	
PCB-43	*	*	n	NotFnd	0.72	*	500	660	5.47	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.72	*	500	660	5.47	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.91	*	500	660	4.32	
PCB-48	*	*	n	NotFnd	0.89	*	500	660	4.39	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	0.89	*	500	660	4.39	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.90	*	500	660	4.37	
PCB-62	*	*	n	NotFnd	0.93	*	500	660	4.22	
PCB-44	*	*	n	NotFnd	0.66	*	500	660	5.95	
PCB-42	*	*	n	NotFnd	0.88	*	500	660	4.46	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.88	*	500	660	4.46	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	0.96	*	500	660	4.10	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	0.96	*	500	660	4.10	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	0.96	*	500	660	4.10	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	0.96	*	500	660	4.10	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	1.02	*	500	660	3.84	
PCB-40	*	*	n	NotFnd	0.56	*	500	660	7.03	
PCB-57	*	*	n	NotFnd	0.96	*	500	660	4.09	
PCB-67	*	*	n	NotFnd	0.95	*	500	660	4.14	
PCB-58	*	*	n	NotFnd	0.99	*	500	660	3.98	
PCB-63	*	*	n	NotFnd	0.99	*	500	660	3.97	
PCB-74	*	*	n	NotFnd	1.02	*	500	660	3.86	
PCB-61	*	*	n	NotFnd	1.06	*	500	660	3.71	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	1.06	*	500	660	3.71	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.00	*	500	660	3.93	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.00	*	500	660	3.93	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.12	*	500	660	3.52	
PCB-55	8.06e+04	0.88	y	33:33	0.99	27.7	-	-	*	
13C-PCB-54	2.95e+07	0.78	y	25:37	1.09	10200				102
PCB-104	4.15e+06	1.57	y	30:06	1.04	1600	-	-	*	
PCB-96	*	*	n	NotFnd	0.95	*	440	596	4.56	
PCB-103	*	*	n	NotFnd	0.82	*	440	596	5.28	
PCB-100	*	*	n	NotFnd	0.81	*	440	596	5.37	
PCB-94	*	*	n	NotFnd	0.69	*	440	596	6.31	
PCB-98	*	*	n	NotFnd	0.90	*	440	596	4.84	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.90	*	440	596	4.84	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.65	*	440	596	6.73	
PCB-93	*	*	n	NotFnd	0.64	*	440	596	6.74	
PCB-88	*	*	n	NotFnd	0.76	*	440	596	5.69	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.76	*	440	596	5.69	Co-elute PCB 88
PCB-121	6.86e+06	1.56	y	33:33	0.93	2940	-	-	*	
13C-PCB-104	2.50e+07	1.57	y	30:04	0.94	9990				99.9
13C-PCB-28	3.38e+07	1.07	y	26:43	1.19	10700				107
13C-PCB-52	2.65e+07	0.79	y	28:59	-	54.4				

PCB-56	*	*	n	NotFnd	1.00	*	560	696	6.49	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.00	*	560	696	6.49	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.02	*	560	696	6.40	
PCB-78	5.85e+06	0.79	y	35:42	0.99	2430	-	-	*	
PCB-81	*	*	n	NotFnd	1.05	*	560	696	6.16	
13C-PCB-81	2.42e+07	0.80	y	36:11	1.01	10000				100
PCB-77	*	*	n	NotFnd	0.97	*	560	696	6.67	
13C-PCB-77	2.45e+07	0.79	y	36:44	1.02	10000				100
PCB-155	8.85e+06	1.29	y	34:16	0.97	3350	-	-	*	
PCB-150	*	*	n	NotFnd	0.90	*	488	420	4.24	
PCB-152	*	*	n	NotFnd	0.89	*	488	420	4.29	
PCB-145	*	*	n	NotFnd	0.89	*	488	420	4.30	
PCB-136	*	*	n	NotFnd	0.92	*	488	420	4.14	
PCB-148	*	*	n	NotFnd	0.64	*	488	420	5.92	
PCB-154	*	*	n	NotFnd	0.80	*	488	420	4.78	
13C-PCB-155	2.74e+07	1.27	y	34:15	1.12	10200				102
13C-PCB-111	2.72e+07	1.56	y	36:20	1.14	9970				99.7
13C-PCB-101	2.40e+07	1.58	y	34:40	-	52.2				
PCB-84	8.92e+04	1.75	y	34:16	0.78	50.6	-	-	*	Co-elute PCB 92
PCB-92	8.92e+04	1.75	y	34:16	0.78	50.6	-	-	*	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.75	*	600	672	8.75	
PCB-90	*	*	n	NotFnd	0.87	*	600	672	7.55	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.87	*	600	672	7.55	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.97	*	600	672	6.84	
PCB-99	*	*	n	NotFnd	0.99	*	600	672	6.66	
PCB-119	*	*	n	NotFnd	1.14	*	600	672	5.80	
PCB-83	*	*	n	NotFnd	0.87	*	600	672	7.63	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.87	*	600	672	7.63	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.04	*	600	672	6.33	
PCB-97	*	*	n	NotFnd	0.96	*	600	672	6.92	
PCB-86	*	*	n	NotFnd	0.80	*	600	672	8.29	
PCB-125	*	*	n	NotFnd	1.00	*	600	672	6.58	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	1.00	*	600	672	6.58	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	1.00	*	600	672	6.58	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.23	*	600	672	5.37	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.23	*	600	672	5.37	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.94	*	600	672	7.00	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.94	*	600	672	7.00	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.20	*	600	672	5.52	
PCB-110	*	*	n	NotFnd	1.14	*	600	672	5.82	
PCB-82	*	*	n	NotFnd	0.67	*	600	672	9.79	
PCB-124	*	*	n	NotFnd	0.99	*	432	628	5.56	
PCB-108	*	*	n	NotFnd	0.97	*	432	628	5.68	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	0.97	*	432	628	5.68	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.12	*	432	628	5.07	
13C-PCB-123	2.20e+07	1.61	y	38:23	1.00	10500				105
PCB-118	*	*	n	NotFnd	0.92	*	432	628	5.57	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	0.92	*	432	628	5.57	Co-elute PCB 118
13C-PCB-118	2.39e+07	1.63	y	38:33	1.05	10800				108
PCB-114	*	*	n	NotFnd	1.03	*	432	628	5.50	
13C-PCB-114	2.24e+07	1.58	y	39:11	1.02	10500				105
PCB-122	*	*	n	NotFnd	0.97	*	432	628	5.70	
PCB-105	*	*	n	NotFnd	1.00	*	432	628	5.57	
13C-PCB-105	2.20e+07	1.61	y	39:58	1.02	10300				103

FAL ID: 10322-002-0001-SA Filename: 06JAN17Z Sam:6 Acquired: 6-JAN-17 13:05:52 ICal: DAILY209FAL4-1-6-17
Client ID: LDW-BA-SU-S010-TB-EXSITU2 ConCal: ST010617Z1 EndCal: ST010617Z2
Results: 10322 GC Column: DB1 Amount: 1.000

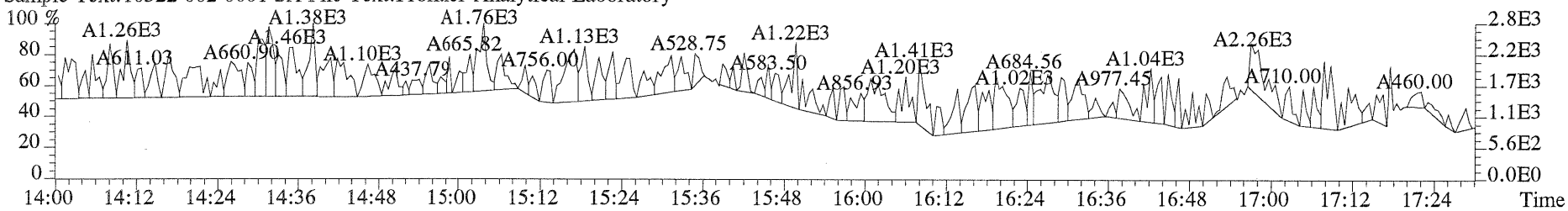
PCB-127	*	*	n	NotFnd	0.93	*	432	628	5.92		
PCB-126	*	*	n	NotFnd	1.00	*	432	628	6.24		
13C-PCB-126	2.11e+07	1.58	y	42:07	0.95	10500				105	
PCB-151	*	*	n	NotFnd	0.70	*	440	396	5.59		
PCB-135	*	*	n	NotFnd	0.70	*	440	396	5.61		
PCB-144	*	*	n	NotFnd	0.71	*	440	396	5.56		
PCB-147	*	*	n	NotFnd	0.78	*	440	396	5.07		
PCB-139	*	*	n	NotFnd	0.76	*	440	396	5.16	Co-elute PCB 149	
PCB-149	*	*	n	NotFnd	0.76	*	440	396	5.16	Co-elute PCB 139	
PCB-140	*	*	n	NotFnd	0.75	*	440	396	5.23		
PCB-143	*	*	n	NotFnd	0.70	*	440	396	5.64	Co-elute PCB 134	
PCB-134	*	*	n	NotFnd	0.70	*	440	396	5.64	Co-elute PCB 143	
PCB-131	*	*	n	NotFnd	0.70	*	440	396	5.61	Co-elute PCB 133	
PCB-133	*	*	n	NotFnd	0.70	*	440	396	5.61	Co-elute PCB 131	
PCB-142	5.06e+06	1.23	y	39:32	0.63	3340	-	-	*		
PCB-165	*	*	n	NotFnd	0.84	*	440	396	4.67	Co-elute PCB 146	
PCB-146	*	*	n	NotFnd	0.84	*	440	396	4.67	Co-elute PCB 165	
PCB-161	*	*	n	NotFnd	0.77	*	440	396	5.09	Co-elute PCB 132	
PCB-132	*	*	n	NotFnd	0.77	*	440	396	5.09	Co-elute PCB 161	
PCB-153	*	*	n	NotFnd	0.86	*	440	396	4.56		
PCB-168	*	*	n	NotFnd	0.92	*	440	396	4.29		
PCB-141	*	*	n	NotFnd	0.72	*	440	396	5.45		
PCB-137	*	*	n	NotFnd	0.63	*	440	396	6.20		
PCB-130	*	*	n	NotFnd	0.69	*	440	396	5.68		
PCB-138	*	*	n	NotFnd	0.94	*	440	396	4.17	Co-elute PCB 163/164	
PCB-163	*	*	n	NotFnd	0.94	*	440	396	4.17	Co-elute PCB 138/164	
PCB-164	*	*	n	NotFnd	0.94	*	440	396	4.17	Co-elute PCB 138/163	
PCB-158	*	*	n	NotFnd	0.95	*	440	396	4.15	Co-elute PCB 160	
PCB-160	*	*	n	NotFnd	0.95	*	440	396	4.15	Co-elute PCB 158	
PCB-129	*	*	n	NotFnd	0.59	*	440	396	6.68		
PCB-166	*	*	n	NotFnd	0.90	*	440	396	4.37		
PCB-159	*	*	n	NotFnd	0.97	*	440	396	4.07		
PCB-128	*	*	n	NotFnd	0.79	*	440	396	5.00	Co-elute PCB 162	
PCB-162	*	*	n	NotFnd	0.79	*	440	396	5.00	Co-elute PCB 128	
PCB-167	*	*	n	NotFnd	0.88	*	440	396	4.37		
13C-PCB-167	2.47e+07	1.25	y	43:29	1.14	10300				103	
PCB-156	*	*	n	NotFnd	0.93	*	440	396	4.31		
13C-PCB-156	2.39e+07	1.25	y	44:43	1.12	10200				102	
PCB-157	*	*	n	NotFnd	0.89	*	440	396	4.45		
13C-PCB-157	2.49e+07	1.29	y	44:58	1.14	10400				104	
PCB-169	*	*	n	NotFnd	0.88	*	440	396	4.49		
13C-PCB-169	2.26e+07	1.24	y	46:52	1.07	10100				101	

FAL ID: 10322-002-0001-SA Filename: 06JAN17Z Sam:6 Acquired: 6-JAN-17 13:05:52 ICal: DAILY209FAL4-1-6-17
Client ID: LDW-BA-SU-S010-TB-EXSITU2 ConCal: ST010617Z1 EndCal: ST010617Z2
Results: 10322 GC Column: DB1 Amount: 1.000

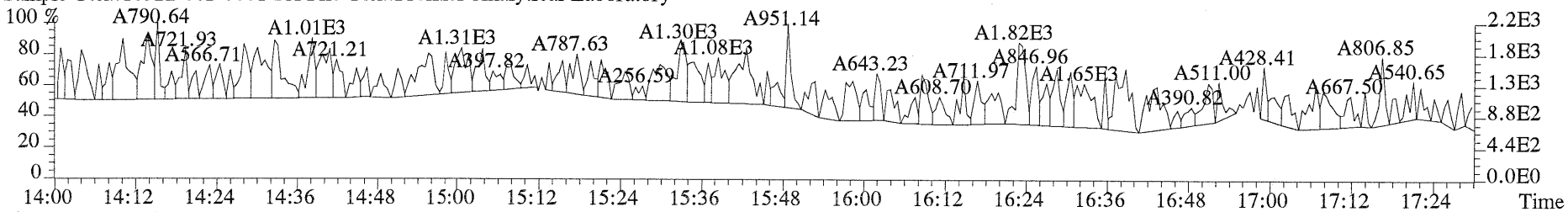
PCB-188	*	*	n	NotFnd	1.00	*	592	368	4.32	
13C-PCB-188	2.64e+07	1.07	y	39:45	1.26	10000				100
PCB-184	1.21e+07	1.03	y	40:12	1.08	4590	-	-	*	
PCB-179	*	*	n	NotFnd	1.04	*	592	368	3.90	
PCB-176	*	*	n	NotFnd	1.01	*	592	368	4.02	
PCB-186	*	*	n	NotFnd	1.00	*	592	368	4.07	
PCB-178	*	*	n	NotFnd	0.74	*	592	368	5.53	
PCB-175	*	*	n	NotFnd	0.78	*	592	368	5.21	
PCB-187	*	*	n	NotFnd	0.83	*	592	368	4.92	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.83	*	592	368	4.92	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.82	*	592	368	4.95	
PCB-185	*	*	n	NotFnd	0.76	*	592	368	5.34	
PCB-174	*	*	n	NotFnd	0.74	*	592	368	5.49	
PCB-181	*	*	n	NotFnd	0.79	*	592	368	5.12	
PCB-177	*	*	n	NotFnd	0.71	*	592	368	5.71	
PCB-171	*	*	n	NotFnd	0.74	*	592	368	5.49	
PCB-173	*	*	n	NotFnd	0.68	*	592	368	5.96	
PCB-172	1.67e+05	1.04	y	45:29	0.71	95.5	-	-	*	
PCB-192	7.18e+06	1.05	y	45:42	0.92	3190	-	-	*	
PCB-180	*	*	n	NotFnd	0.92	*	592	368	4.42	
PCB-193	*	*	n	NotFnd	1.01	*	592	368	4.02	
PCB-191	*	*	n	NotFnd	0.97	*	592	368	4.21	
PCB-170	*	*	n	NotFnd	0.67	*	592	368	6.11	
PCB-190	*	*	n	NotFnd	0.93	*	592	368	4.39	
PCB-189	*	*	n	NotFnd	1.00	*	592	368	3.75	
13C-PCB-189	2.25e+07	1.05	y	48:32	1.07	10000				100
PCB-202	*	*	n	NotFnd	0.83	*	332	492	4.97	
PCB-201	*	*	n	NotFnd	0.84	*	332	492	4.89	
PCB-204	1.25e+07	0.87	y	45:29	0.87	5890	-	-	*	
PCB-197	9.73e+04	1.02	y	45:46	0.89	44.9	-	-	*	
PCB-200	*	*	n	NotFnd	0.84	*	332	492	4.90	
PCB-198	*	*	n	NotFnd	0.61	*	332	492	6.74	
PCB-199	*	*	n	NotFnd	0.63	*	332	492	6.61	
PCB-203	*	*	n	NotFnd	0.67	*	332	492	6.18	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.67	*	332	492	6.18	Co-elute PCB 203
13C-PCB-202	2.43e+07	0.92	y	44:51	1.12	10300				103
13C-PCB-178	1.81e+07	1.06	y	42:23	0.89	9690				96.9
13C-PCB-138	2.10e+07	1.25	y	41:37	-	50.7				
PCB-195	*	*	n	NotFnd	0.72	*	356	384	5.10	
PCB-194	*	*	n	NotFnd	0.77	*	356	384	4.77	
PCB-205	*	*	n	NotFnd	0.99	*	356	384	3.71	
13C-PCB-205	1.78e+07	0.90	y	50:13	1.22	9970				99.7
PCB-208	*	*	n	NotFnd	0.89	*	320	328	3.00	
13C-PCB-208	1.94e+07	0.78	y	49:15	1.31	10200				102
PCB-207	5.29e+04	1.50	y	49:35	0.98	33.1	-	-	*	
PCB-206	*	*	n	NotFnd	0.92	*	320	328	4.60	
13C-PCB-206	1.34e+07	0.79	y	51:29	0.97	9500				95.0
PCB-209	5.29e+04	1.03	y	52:43	0.96	27.5	-	-	*	
13C-PCB-209	2.01e+07	1.18	y	52:43	1.46	9440				94.4
13C-PCB-194	1.46e+07	0.91	y	49:58	-	51.1				

Analyst: _____ Date: 1/10/17

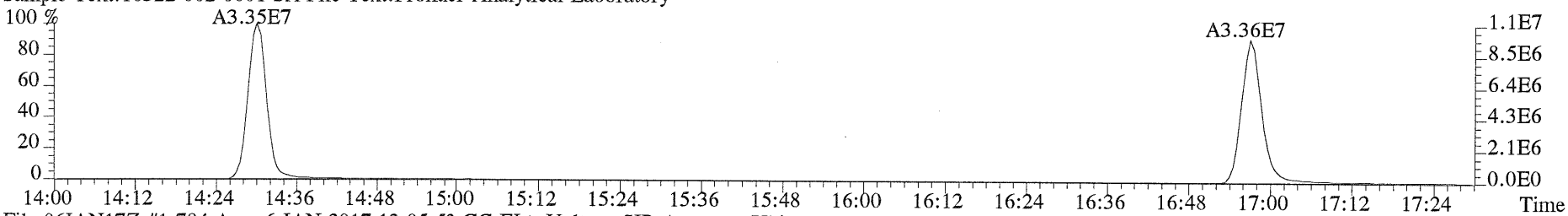
File:06JAN17Z #1-784 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



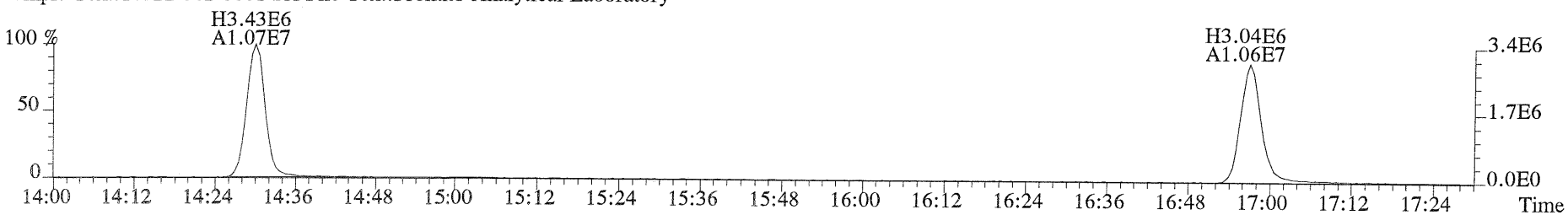
File:06JAN17Z #1-784 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



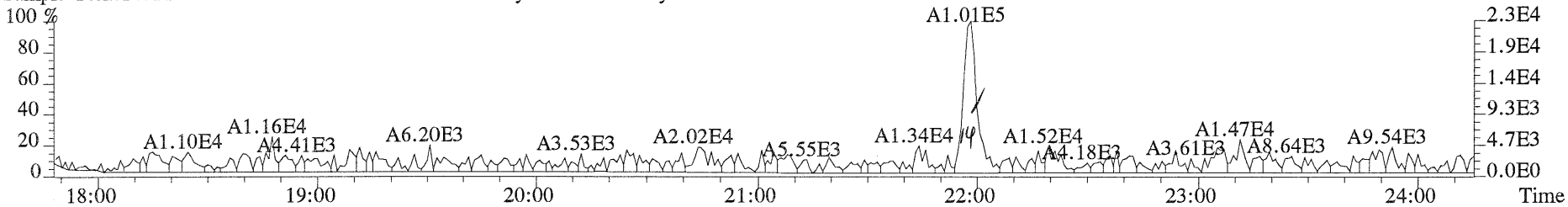
File:06JAN17Z #1-784 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



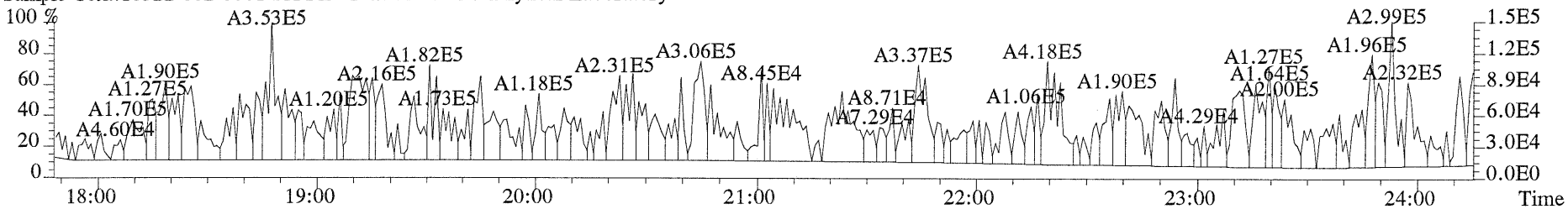
File:06JAN17Z #1-784 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



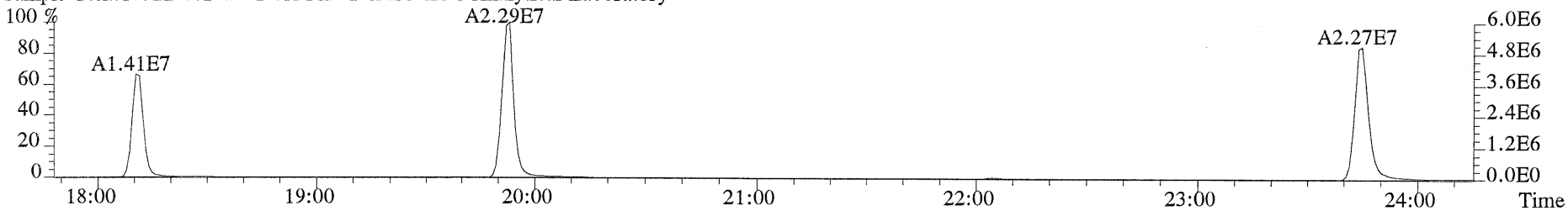
File:06JAN17Z #1-509 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



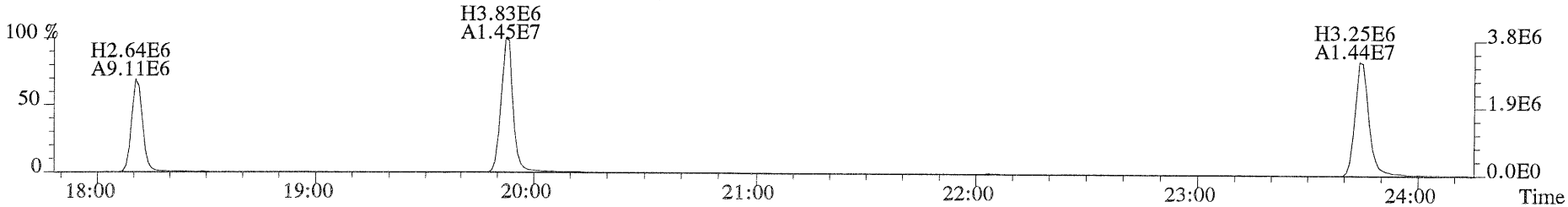
File:06JAN17Z #1-509 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



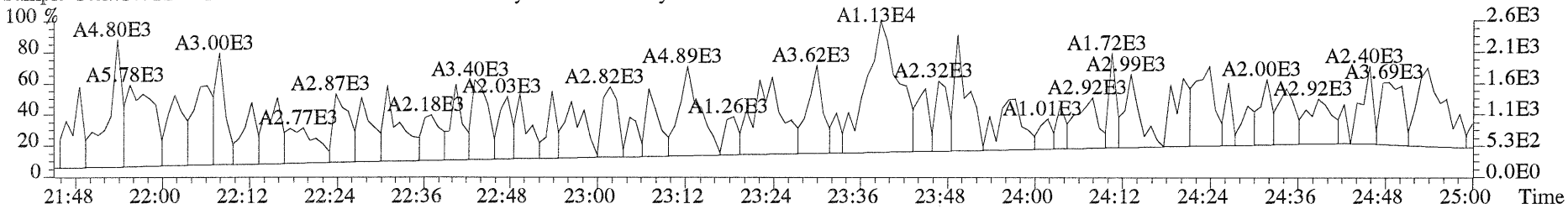
File:06JAN17Z #1-509 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



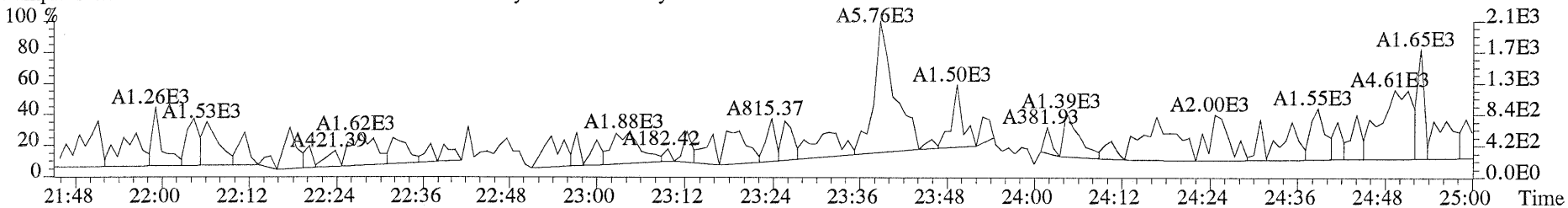
File:06JAN17Z #1-509 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



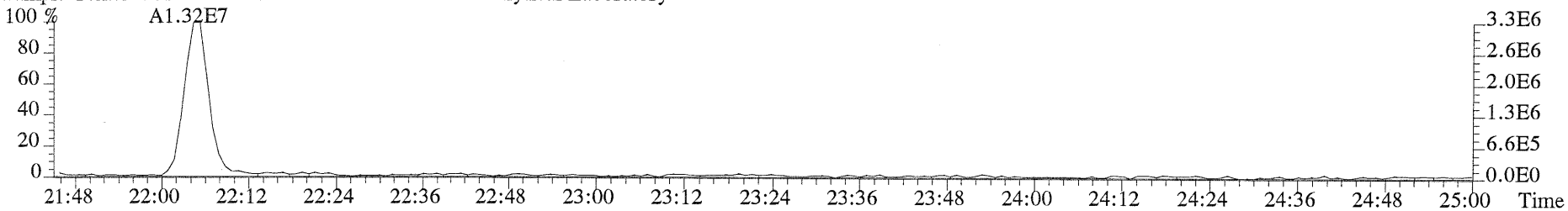
File:06JAN17Z #1-509 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



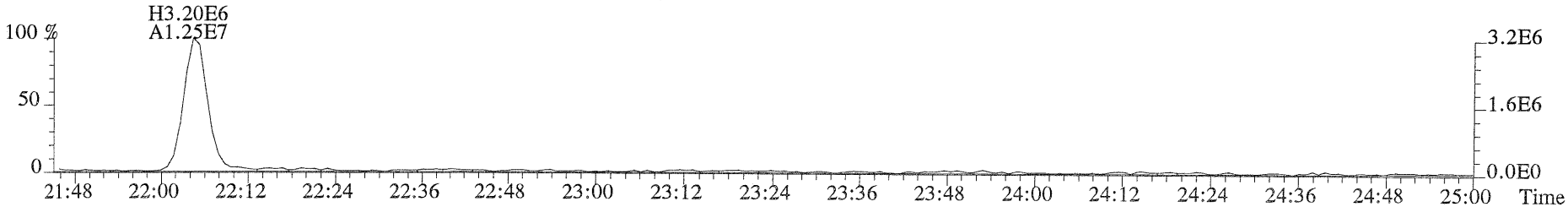
File:06JAN17Z #1-509 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



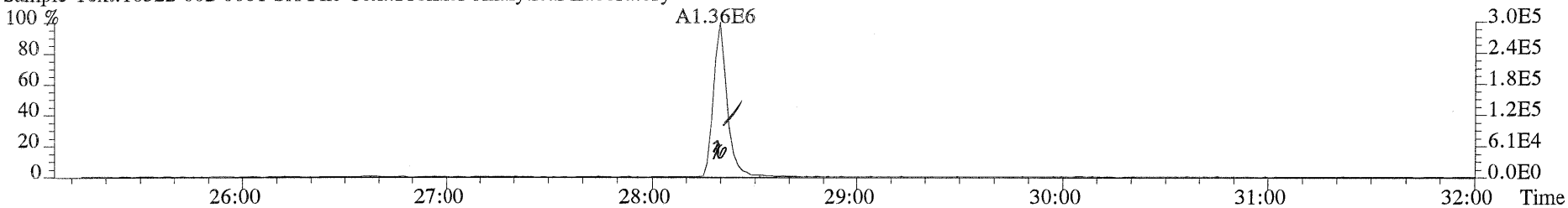
File:06JAN17Z #1-509 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



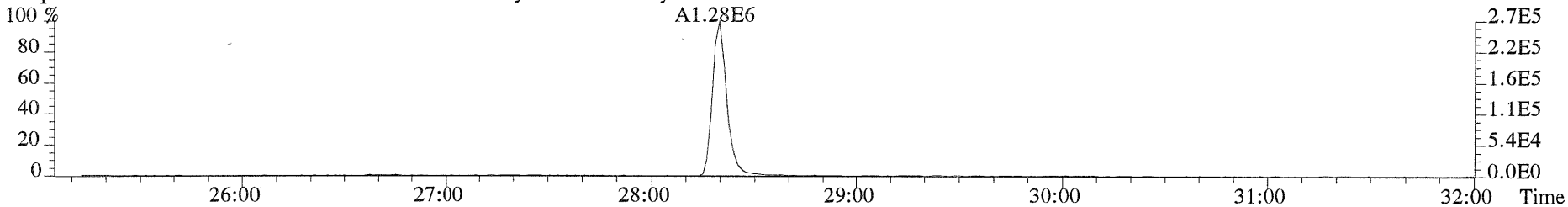
File:06JAN17Z #1-509 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



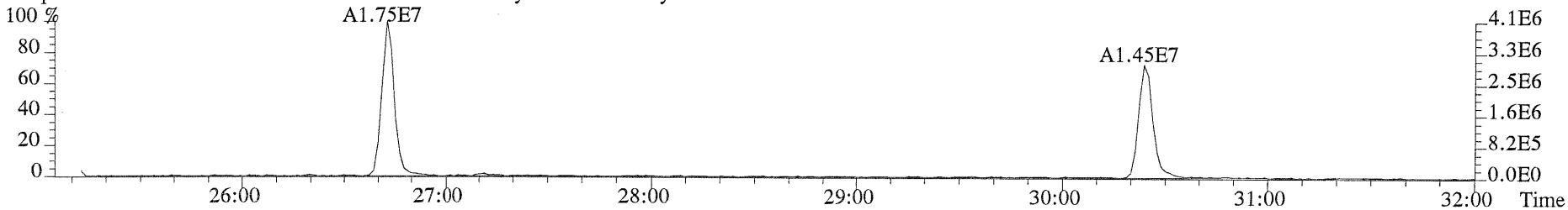
File:06JAN17Z #1-407 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



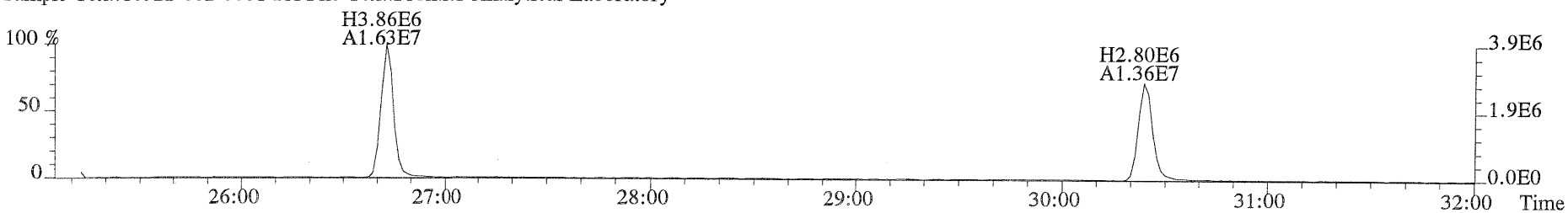
File:06JAN17Z #1-407 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



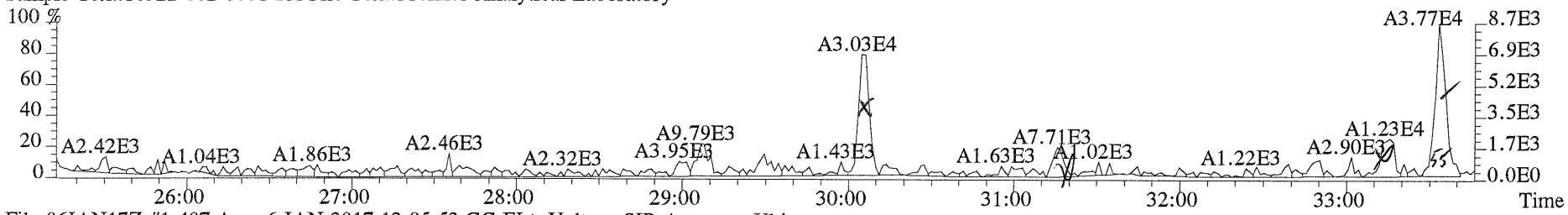
File:06JAN17Z #1-407 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-407 Acq: 6-JAN-2017 13:05:52 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:10322-002-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-407 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



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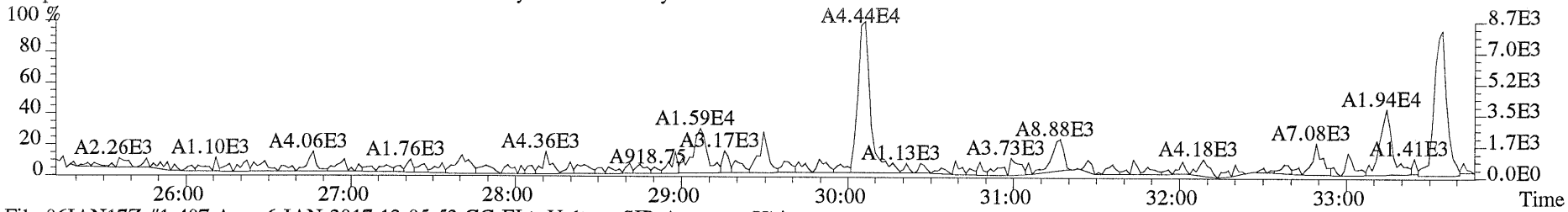
291.9194 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



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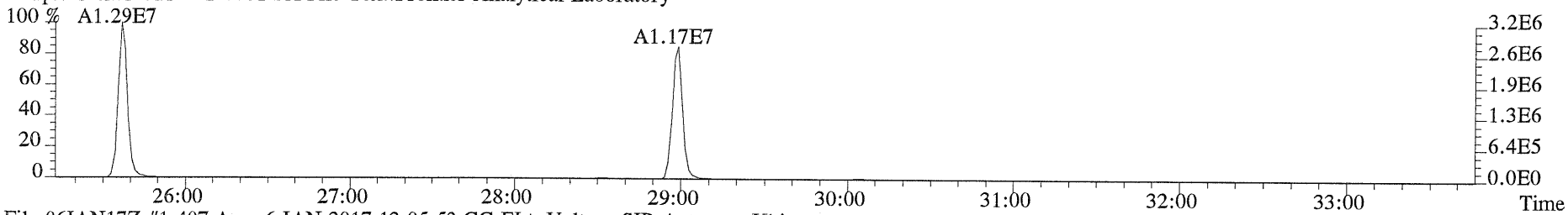
301.9626 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



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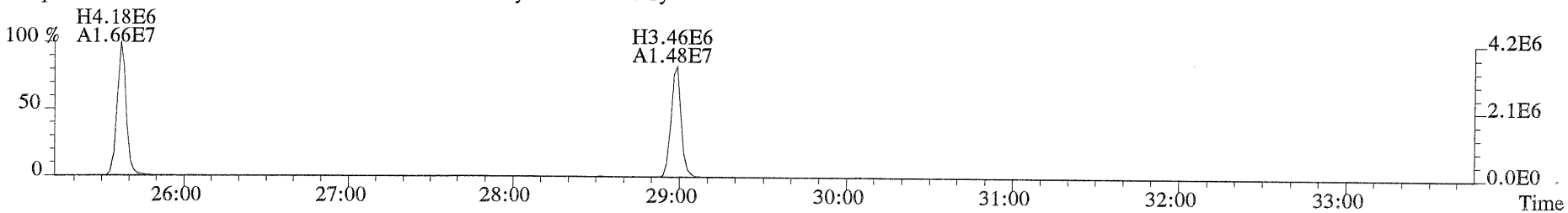
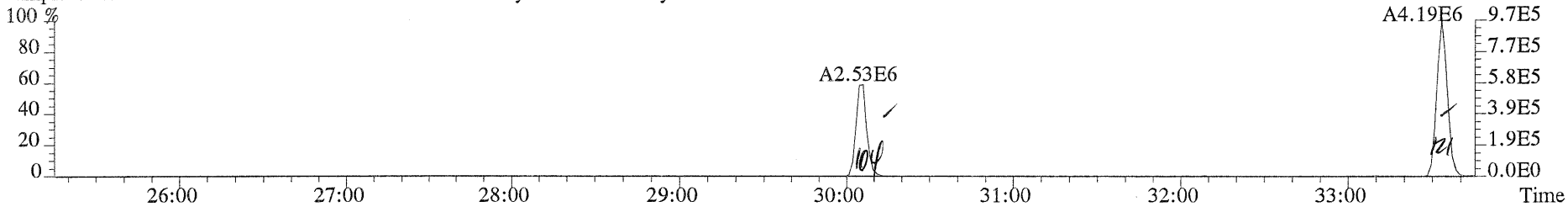
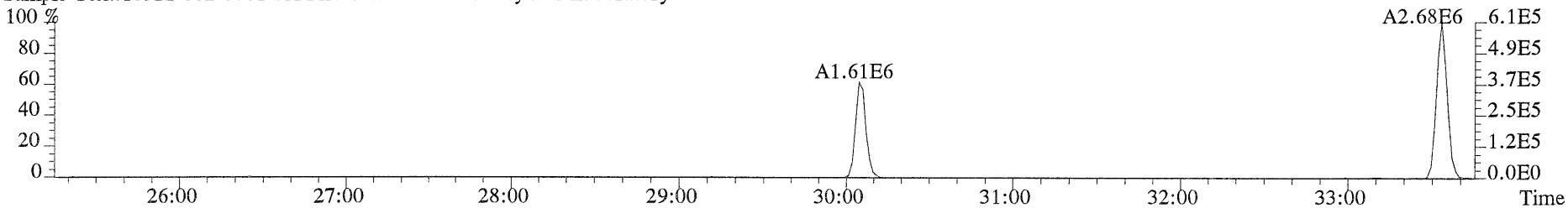
303.9597 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



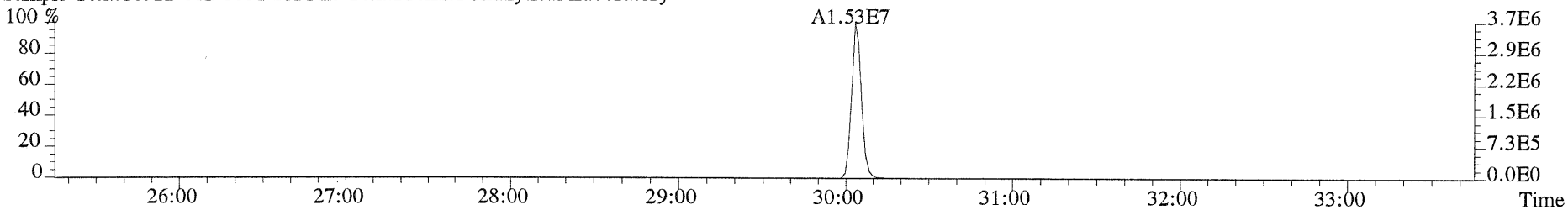
File:06JAN17Z #1-407 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



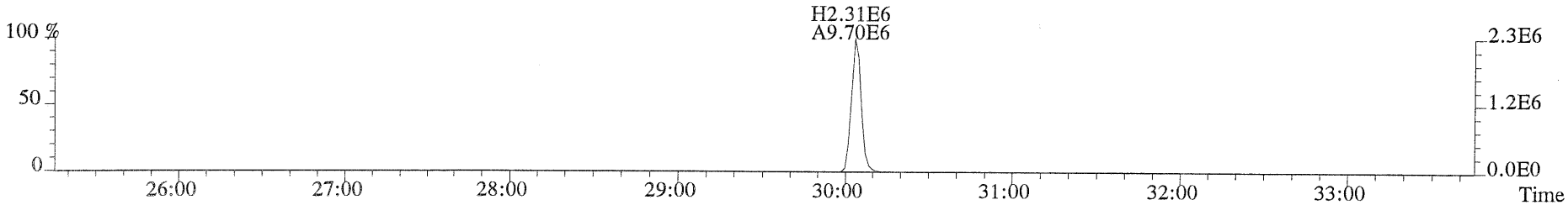
File:06JAN17Z #1-407 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



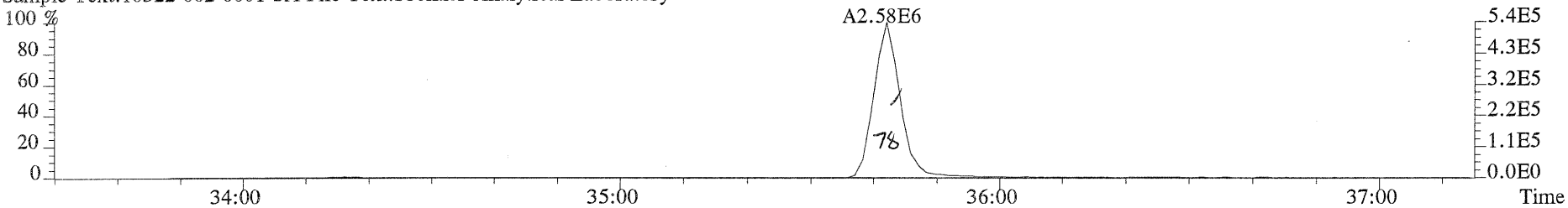
File:06JAN17Z #1-407 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



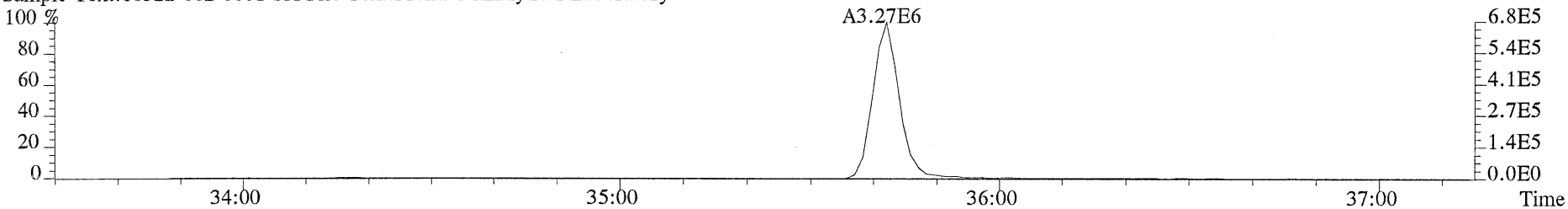
File:06JAN17Z #1-407 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



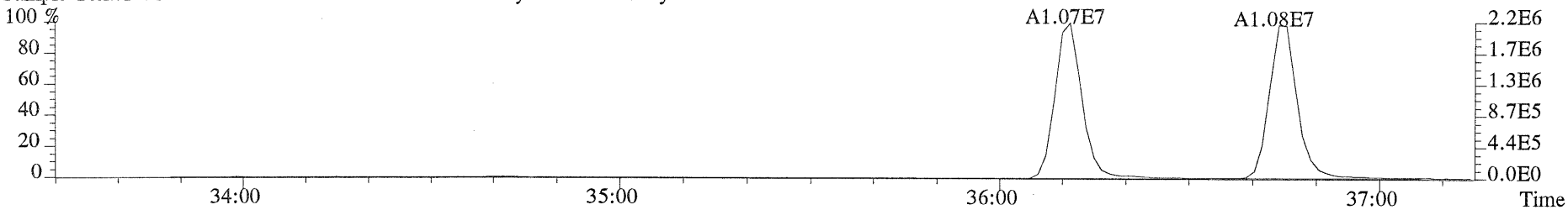
File:06JAN17Z #1-181 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



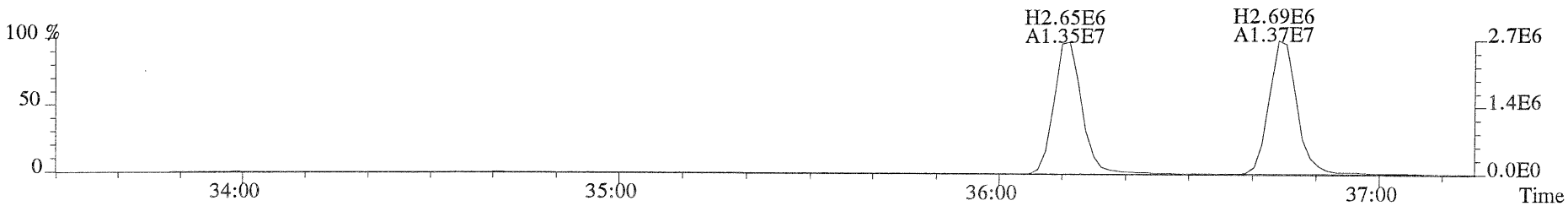
File:06JAN17Z #1-181 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



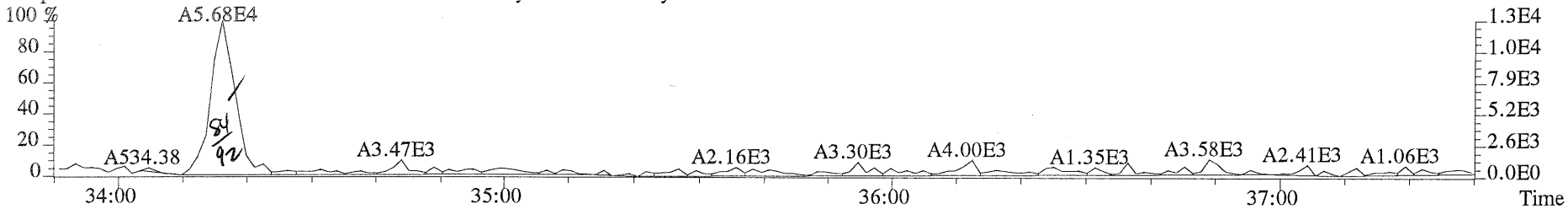
File:06JAN17Z #1-181 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



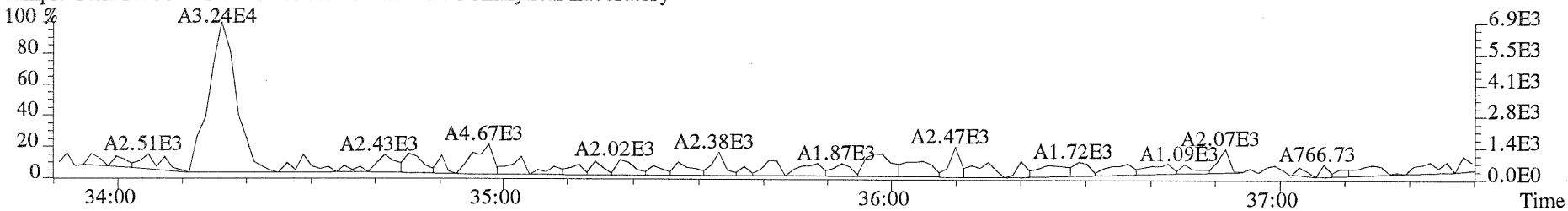
File:06JAN17Z #1-181 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



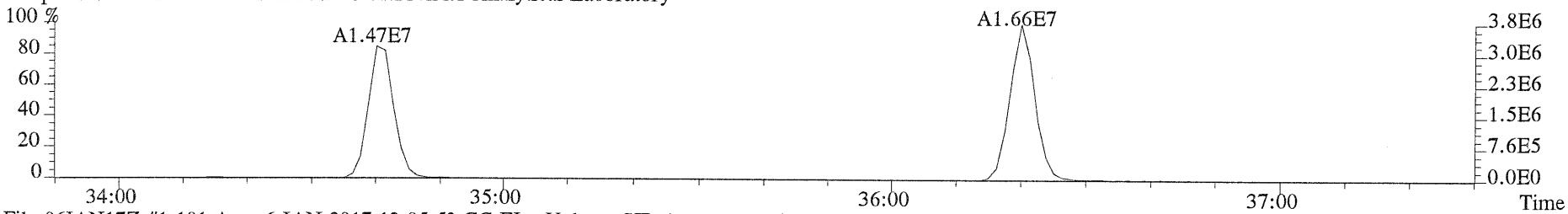
File:06JAN17Z #1-181 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



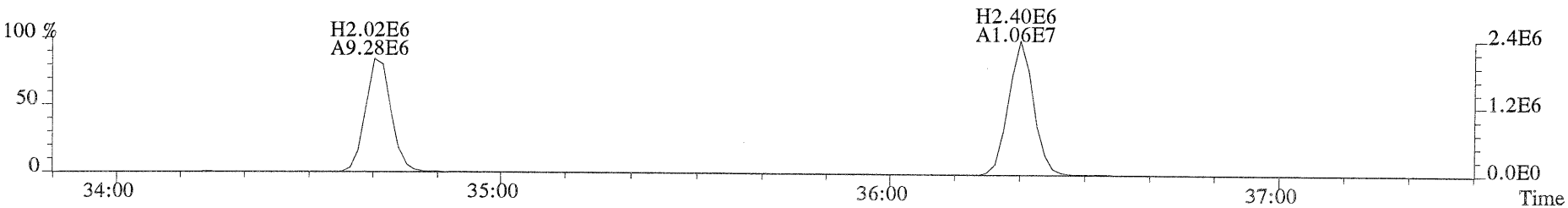
File:06JAN17Z #1-181 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



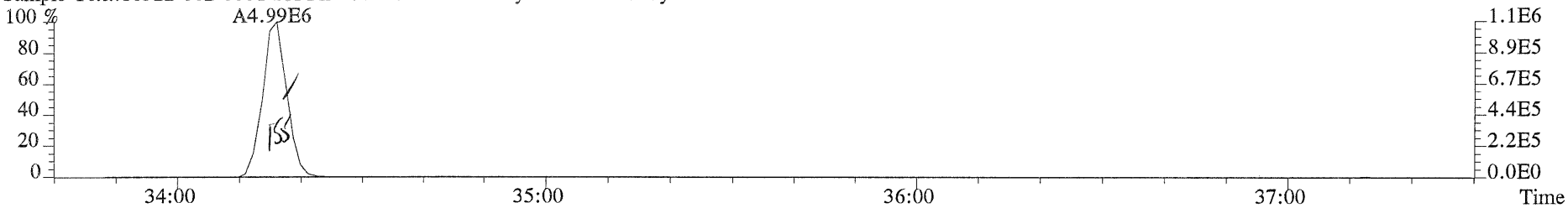
File:06JAN17Z #1-181 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



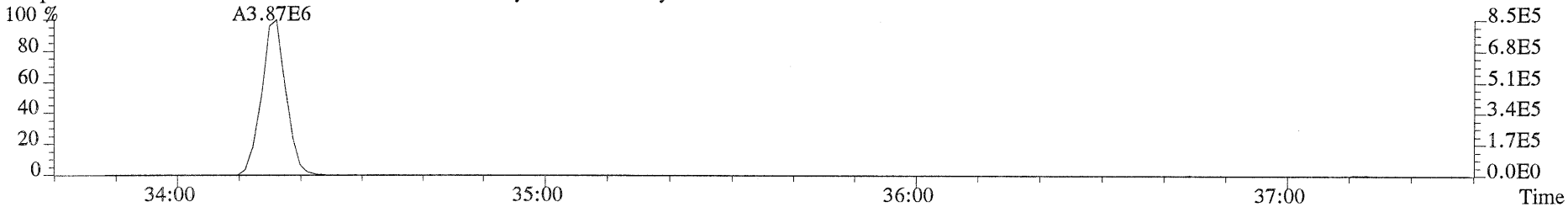
File:06JAN17Z #1-181 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



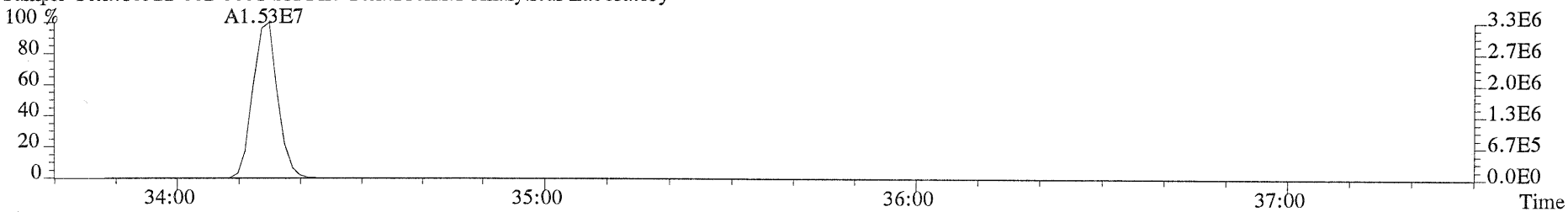
File:06JAN17Z #1-181 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-181 Acq: 6-JAN-2017 13:05:52 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:10322-002-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-181 Acq: 6-JAN-2017 13:05:52 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:10322-002-0001-SA File Text:Frontier Analytical Laboratory



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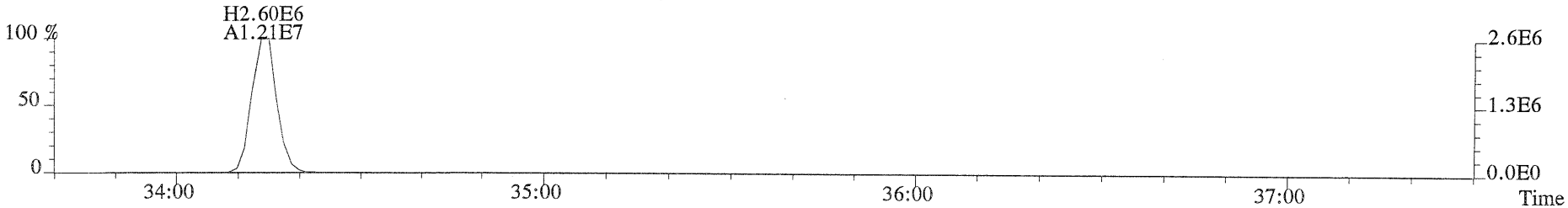
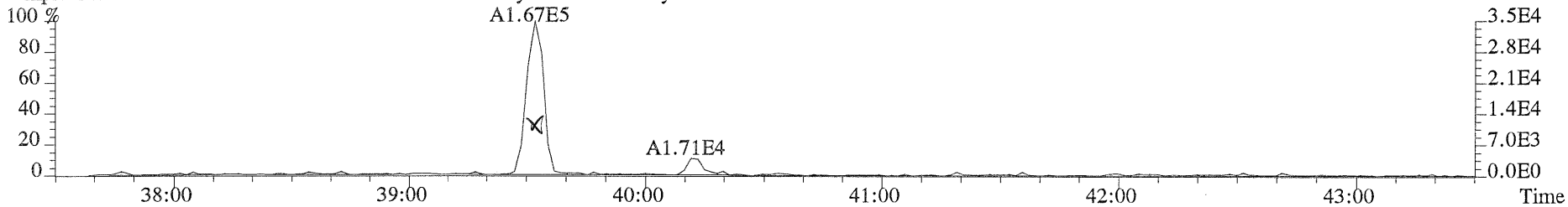
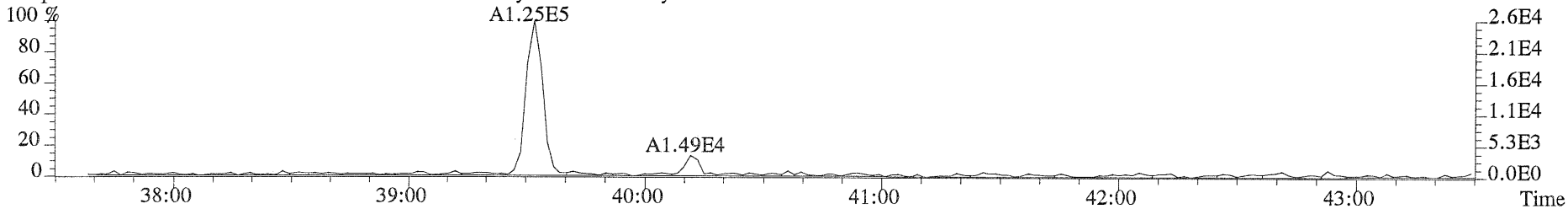
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-412 Acq: 6-JAN-2017 13:05:52 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:10322-002-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-412 Acq: 6-JAN-2017 13:05:52 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:10322-002-0001-SA File Text:Frontier Analytical Laboratory



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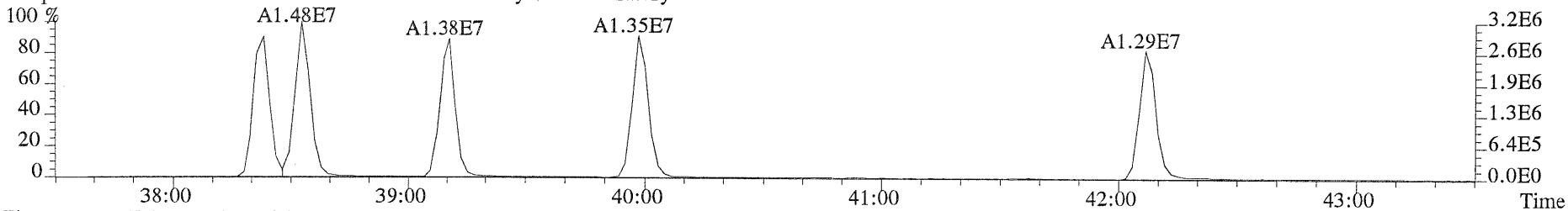
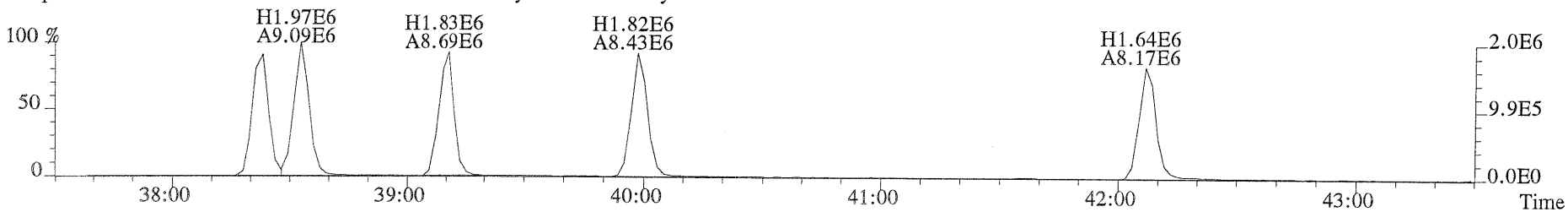
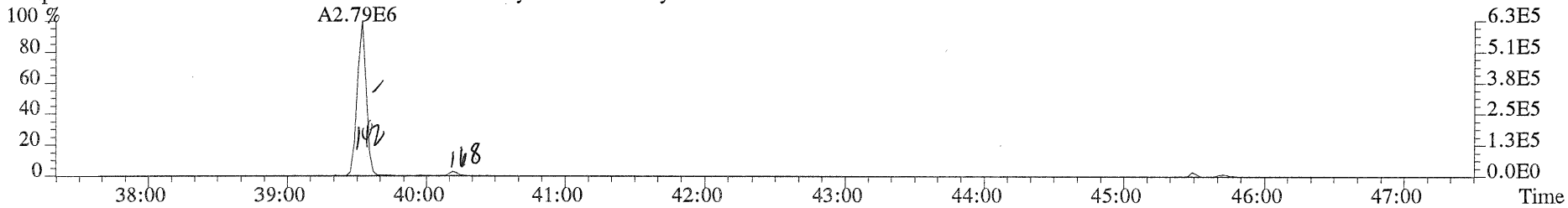
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-412 Acq: 6-JAN-2017 13:05:52 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:10322-002-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-412 Acq: 6-JAN-2017 13:05:52 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:10322-002-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-412 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
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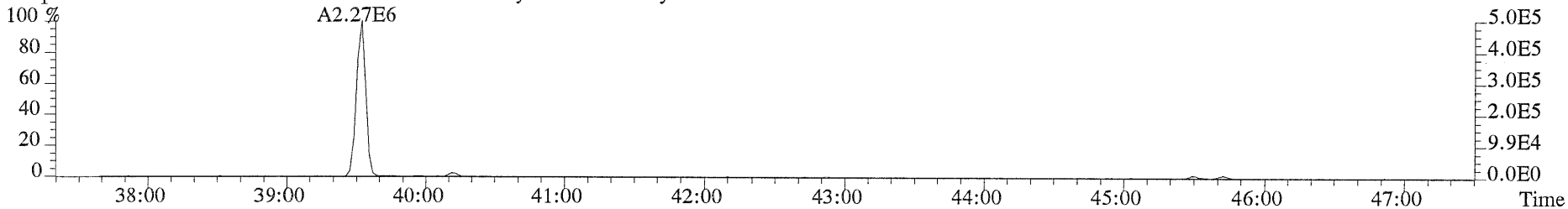
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



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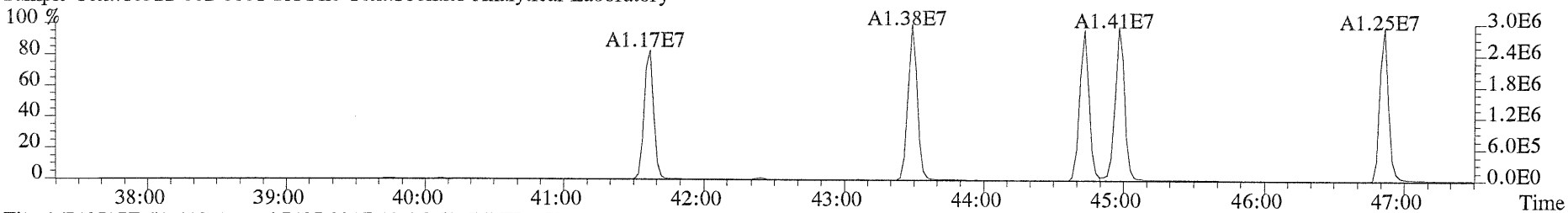
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



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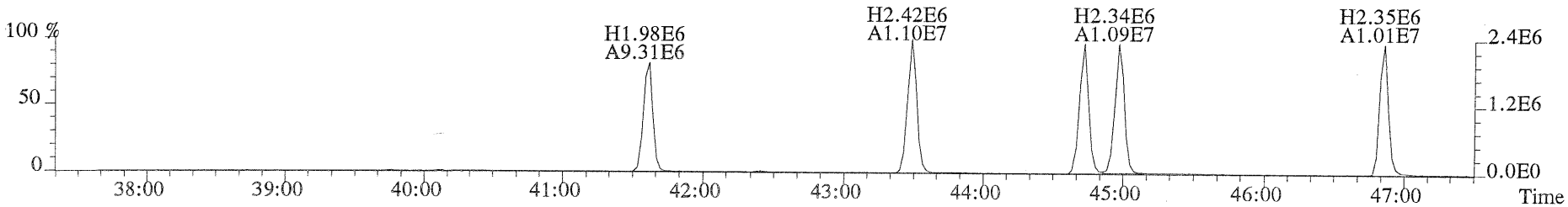
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



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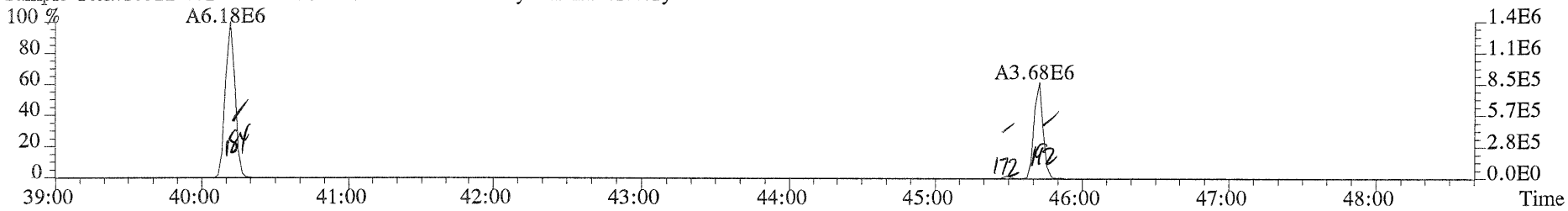
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



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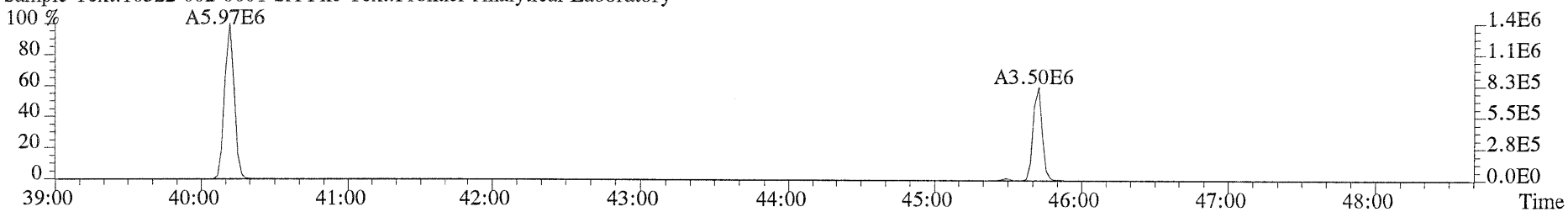
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



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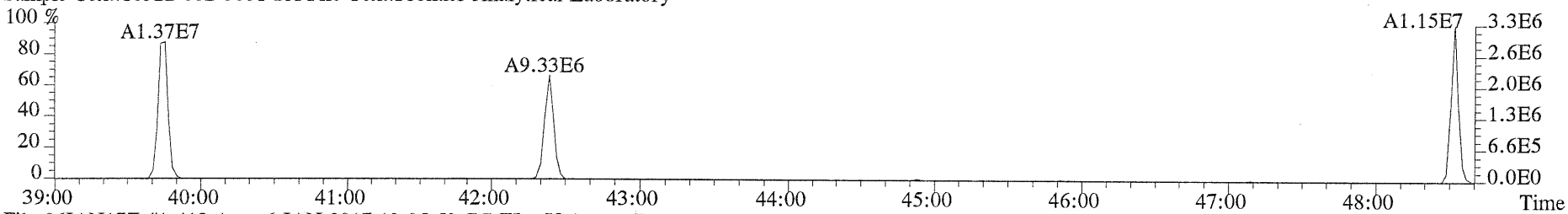
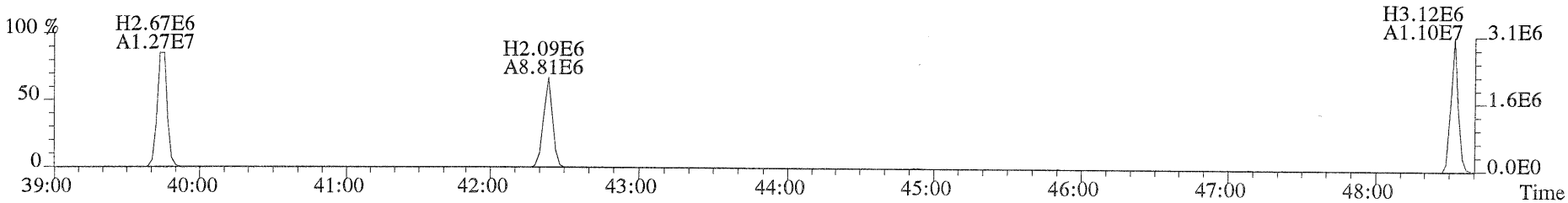
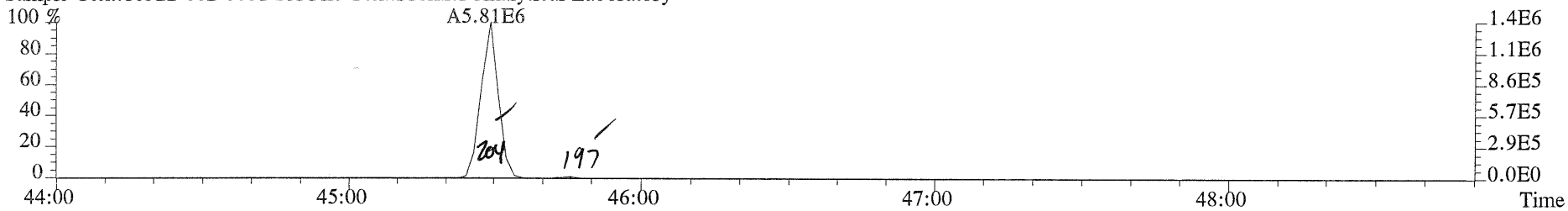
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



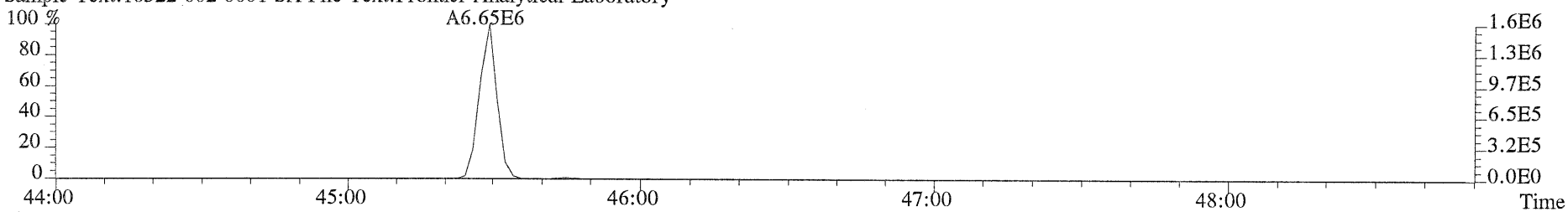
File:06JAN17Z #1-412 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



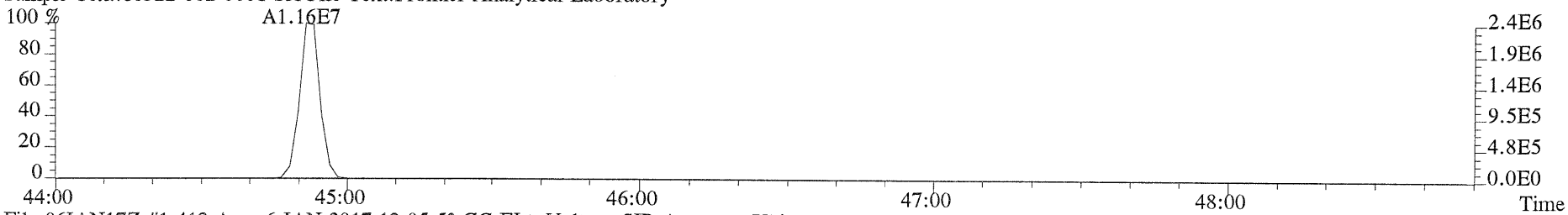
File:06JAN17Z #1-412 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



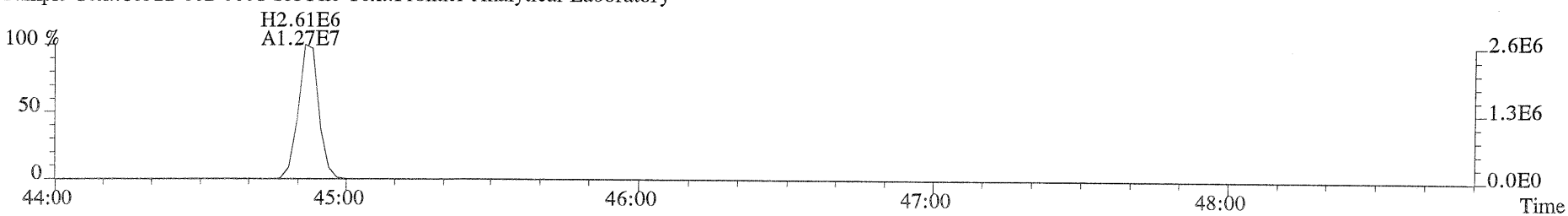
File:06JAN17Z #1-412 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



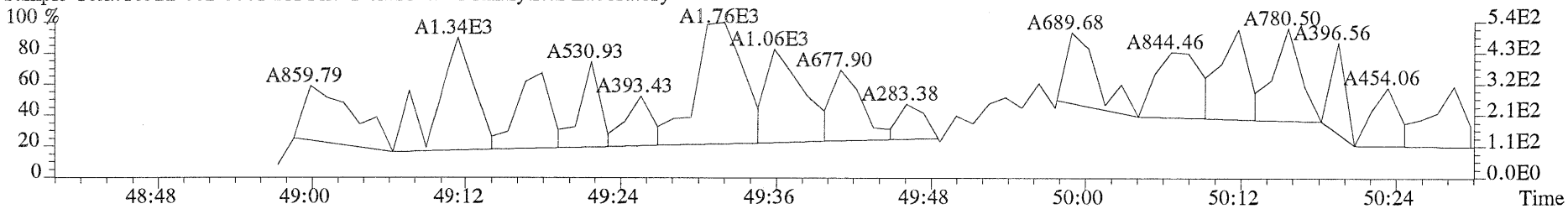
File:06JAN17Z #1-412 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



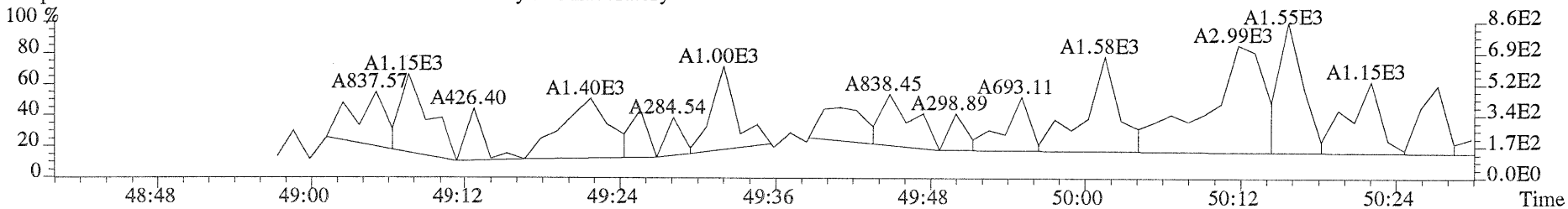
File:06JAN17Z #1-412 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



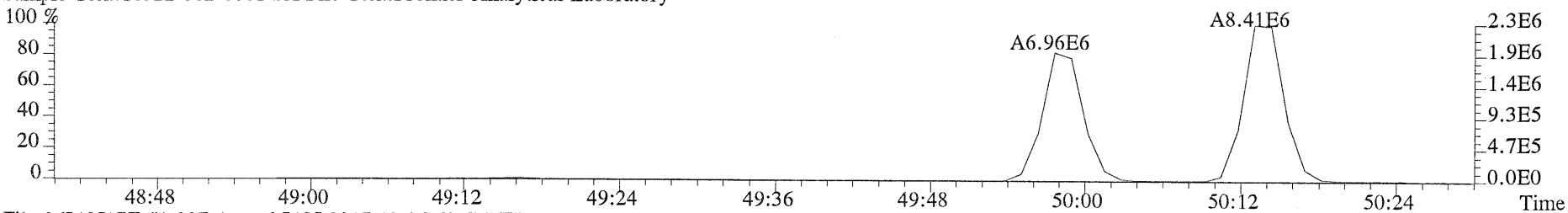
File:06JAN17Z #1-307 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



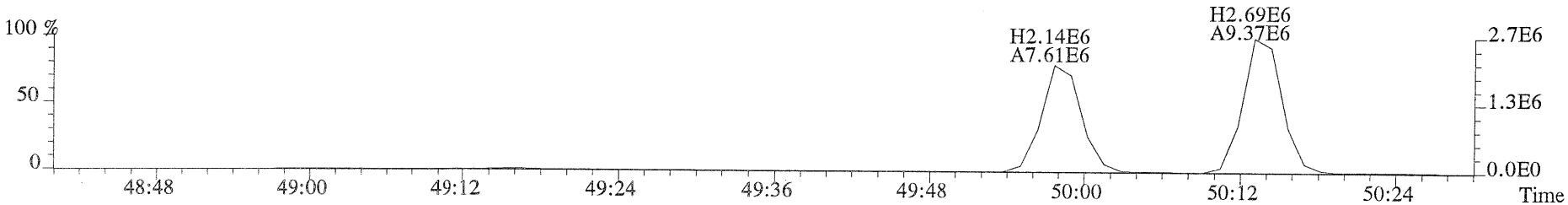
File:06JAN17Z #1-307 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



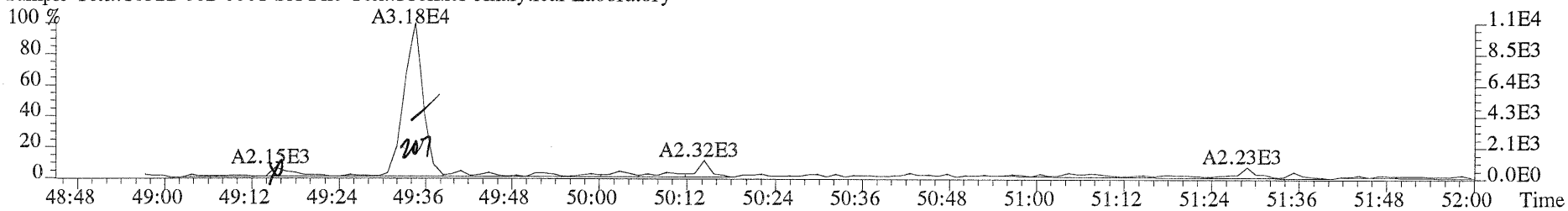
File:06JAN17Z #1-307 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



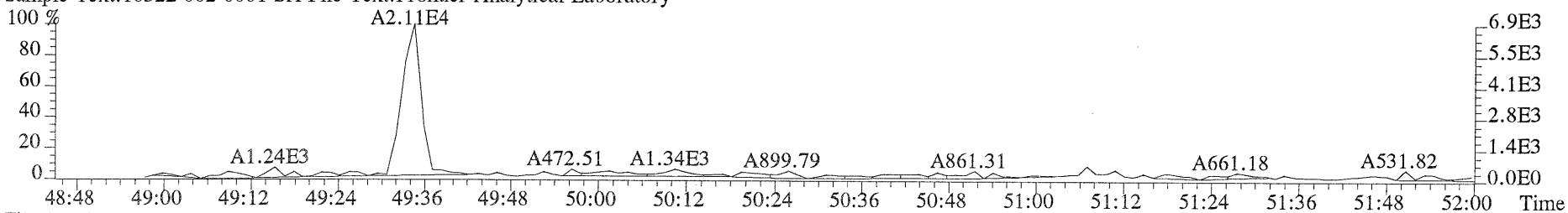
File:06JAN17Z #1-307 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



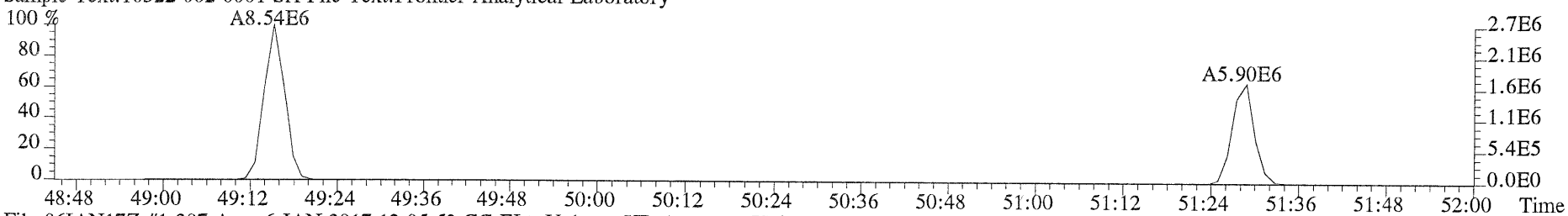
File:06JAN17Z #1-307 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



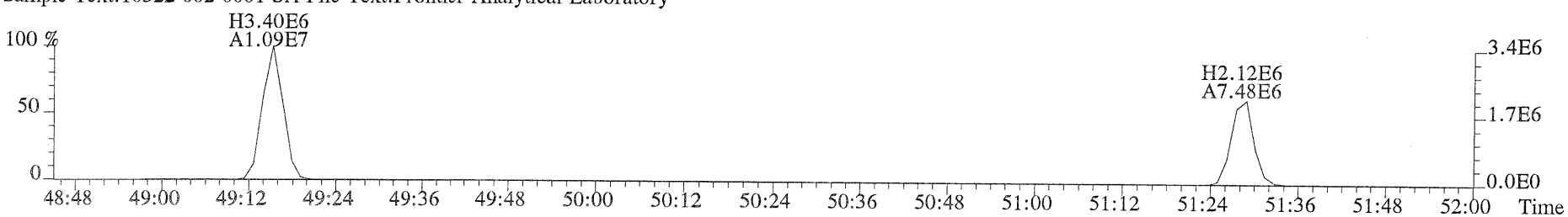
File:06JAN17Z #1-307 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



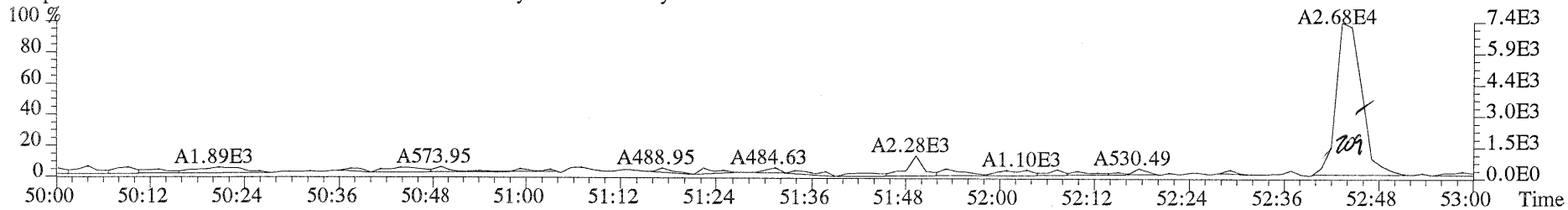
File:06JAN17Z #1-307 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



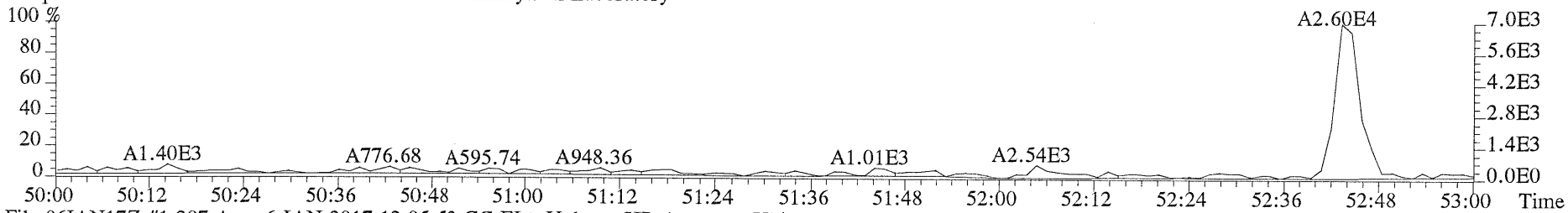
File:06JAN17Z #1-307 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



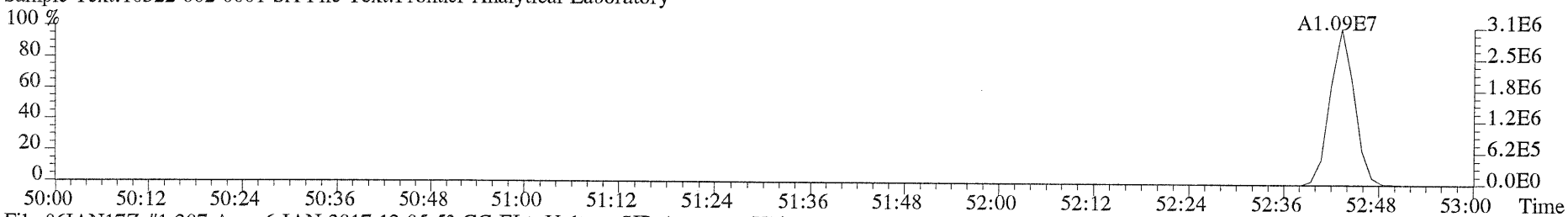
File:06JAN17Z #1-307 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



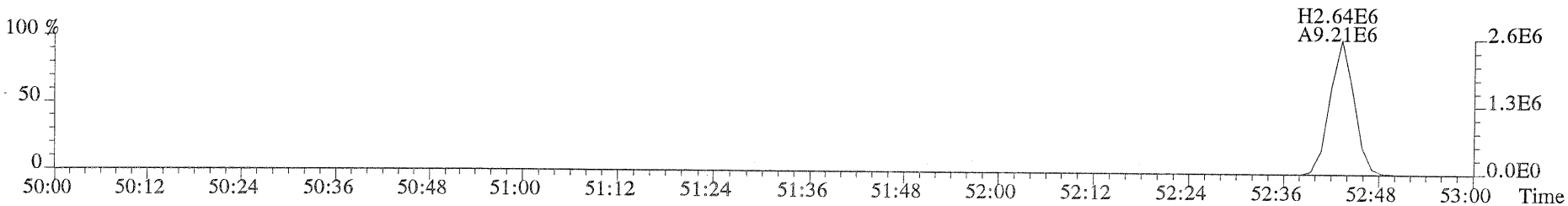
File:06JAN17Z #1-307 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-307 Acq: 6-JAN-2017 13:05:52 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-002-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-307 Acq: 6-JAN-2017 13:05:52 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:10322-002-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10322-003-0001-SA Filename: 06JAN17Z Sam:7 Acquired: 6-JAN-17 14:04:12 ICal: DAILY209FAL4-1-6-17
Client ID: LDW-BA-SU-S010-TB-EXSITU3 ConCal: ST010617Z1 EndCal: ST010617Z2
Results: 10322 GC Column: DB1 Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	0.90	*		2050	1670	8.40	
13C-PCB-1	3.91e+07	3.04	y	14:30	1.12	10600					106
PCB-2	*	*	n	NotFnd	0.85	*		2050	1670	9.54	
PCB-3	*	*	n	NotFnd	0.89	*		2050	1670	9.67	
13C-PCB-3	3.90e+07	3.13	y	16:57	1.14	10300					103
PCB-4	*	*	n	NotFnd	1.09	*		2740	1300	15.3	
PCB-10	*	*	n	NotFnd	1.01	*		2740	1300	14.6	
13C-PCB-4	2.05e+07	1.56	y	18:11	0.61	10100					101
PCB-9	*	*	n	NotFnd	1.10	*		2740	1300	13.3	
PCB-7	*	*	n	NotFnd	1.14	*		2740	1300	12.8	
PCB-6	*	*	n	NotFnd	1.14	*		2740	1300	12.9	
PCB-8	*	*	n	NotFnd	1.12	*		2740	1300	13.1	
PCB-5	*	*	n	NotFnd	1.08	*		2740	1300	13.6	
PCB-14	3.11e+05	1.52	y	21:58	1.10	109		-	-	*	
PCB-11	*	*	n	NotFnd	1.07	*		2740	1300	13.8	
PCB-13	*	*	n	NotFnd	1.07	*		2740	1300	13.8	
PCB-12	*	*	n	NotFnd	1.04	*		2740	1300	14.1	
PCB-15	*	*	n	NotFnd	0.99	*		2740	1300	13.5	
13C-PCB-15	3.18e+07	1.60	y	23:45	1.00	9600					96.0
PCB-19	*	*	n	NotFnd	0.94	*		1300	652	8.91	
PCB-30	*	*	n	NotFnd	1.34	*		1300	652	6.22	
PCB-18	*	*	n	NotFnd	0.94	*		1300	652	8.86	
PCB-17	*	*	n	NotFnd	1.02	*		1300	652	8.19	
PCB-27	*	*	n	NotFnd	1.31	*		1300	652	6.37	
PCB-24	*	*	n	NotFnd	1.35	*		1300	652	6.18	
PCB-16	*	*	n	NotFnd	1.01	*		1300	652	8.28	
PCB-32	*	*	n	NotFnd	1.28	*		1300	652	6.53	
13C-PCB-19	2.21e+07	1.07	y	22:05	0.68	9840					98.4
13C-PCB-9	3.30e+07	1.59	y	19:52	-	49.7					
PCB-34	*	*	n	NotFnd	0.91	*		1140	556	8.52	
PCB-23	*	*	n	NotFnd	1.03	*		1140	556	7.51	
PCB-29	*	*	n	NotFnd	1.04	*		1140	556	7.40	
PCB-26	*	*	n	NotFnd	1.01	*		1140	556	7.66	
PCB-25	*	*	n	NotFnd	1.17	*		1140	556	6.63	
PCB-31	*	*	n	NotFnd	1.02	*		1140	556	7.61	
PCB-28	*	*	n	NotFnd	1.18	*		1140	556	6.56	
PCB-20	*	*	n	NotFnd	1.02	*		1140	556	7.54	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.02	*		1140	556	7.54	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.02	*		1140	556	7.54	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.03	*		1140	556	7.50	
PCB-36	2.84e+06	1.04	y	28:19	0.99	1090		-	-	*	
PCB-39	*	*	n	NotFnd	0.99	*		1140	556	7.83	
PCB-38	*	*	n	NotFnd	1.00	*		1140	556	7.76	
PCB-35	*	*	n	NotFnd	0.94	*		1140	556	8.23	
PCB-37	*	*	n	NotFnd	1.06	*		1140	556	7.27	
13C-PCB-37	2.62e+07	1.08	y	30:25	1.09	10300					103

FAL ID: 10322-003-0001-SA Filename: 06JAN17Z Sam:7 Acquired: 6-JAN-17 ICal: DAILY209FAL4-1-6-17
Client ID: LDW-BA-SU-S010-TB-EXSITU3 ConCal: ST010617Z1 EndCal: ST010617Z2
Results: 10322 GC Column: DB1 Amount: 1.000

PCB-54	*	*	n	NotFnd	0.95	*	464	596	4.36	
PCB-50	*	*	n	NotFnd	0.73	*	464	596	5.65	
PCB-53	*	*	n	NotFnd	0.73	*	464	596	5.69	
PCB-51	*	*	n	NotFnd	0.75	*	464	596	5.52	
PCB-45	*	*	n	NotFnd	0.65	*	464	596	6.38	
PCB-46	*	*	n	NotFnd	0.62	*	464	596	6.71	
PCB-52	*	*	n	NotFnd	0.86	*	464	596	4.82	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	0.86	*	464	596	4.82	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.04	*	464	596	3.97	
PCB-43	*	*	n	NotFnd	0.72	*	464	596	5.76	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.72	*	464	596	5.76	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.91	*	464	596	4.55	
PCB-48	*	*	n	NotFnd	0.89	*	464	596	4.63	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	0.89	*	464	596	4.63	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.90	*	464	596	4.61	
PCB-62	*	*	n	NotFnd	0.93	*	464	596	4.45	
PCB-44	*	*	n	NotFnd	0.66	*	464	596	6.27	
PCB-42	*	*	n	NotFnd	0.88	*	464	596	4.70	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.88	*	464	596	4.70	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	0.96	*	464	596	4.32	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	0.96	*	464	596	4.32	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	0.96	*	464	596	4.32	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	0.96	*	464	596	4.32	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	1.02	*	464	596	4.05	
PCB-40	*	*	n	NotFnd	0.56	*	464	596	7.41	
PCB-57	*	*	n	NotFnd	0.96	*	464	596	4.31	
PCB-67	*	*	n	NotFnd	0.95	*	464	596	4.37	
PCB-58	*	*	n	NotFnd	0.99	*	464	596	4.20	
PCB-63	*	*	n	NotFnd	0.99	*	464	596	4.19	
PCB-74	*	*	n	NotFnd	1.02	*	464	596	4.07	
PCB-61	*	*	n	NotFnd	1.06	*	464	596	3.91	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	1.06	*	464	596	3.91	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.00	*	464	596	4.14	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.00	*	464	596	4.14	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.12	*	464	596	3.71	
PCB-55	8.71e+04	0.69	y	33:34	0.99	33.6	-	-	*	
13C-PCB-54	2.63e+07	0.78	y	25:38	1.09	10300				103
PCB-104	4.44e+06	1.60	y	30:06	1.04	1910	-	-	*	
PCB-96	*	*	n	NotFnd	0.95	*	392	660	5.12	
PCB-103	*	*	n	NotFnd	0.82	*	392	660	5.94	
PCB-100	*	*	n	NotFnd	0.81	*	392	660	6.03	
PCB-94	*	*	n	NotFnd	0.69	*	392	660	7.10	
PCB-98	*	*	n	NotFnd	0.90	*	392	660	5.45	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.90	*	392	660	5.45	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.65	*	392	660	7.56	
PCB-93	*	*	n	NotFnd	0.64	*	392	660	7.58	
PCB-88	*	*	n	NotFnd	0.76	*	392	660	6.40	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.76	*	392	660	6.40	Co-elute PCB 88
PCB-121	7.48e+06	1.57	y	33:34	0.93	3590	-	-	*	
13C-PCB-104	2.23e+07	1.58	y	30:04	0.94	10100				101
13C-PCB-28	3.08e+07	1.08	y	26:43	1.19	11000				110
13C-PCB-52	2.35e+07	0.78	y	28:59	-	48.2				

PCB-56	*	*	n	NotFnd	1.00	*	596	852	7.64	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.00	*	596	852	7.64	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.02	*	596	852	7.53	
PCB-78	6.46e+06	0.80	y	35:42	0.99	2970	-	-	*	
PCB-81	*	*	n	NotFnd	1.05	*	596	852	7.17	
13C-PCB-81	2.21e+07	0.80	y	36:11	1.01	10200				102
PCB-77	*	*	n	NotFnd	0.97	*	596	852	7.93	
13C-PCB-77	2.20e+07	0.79	y	36:45	1.02	10100				101
PCB-155	9.68e+06	1.30	y	34:16	0.97	4060	-	-	*	
PCB-150	*	*	n	NotFnd	0.90	*	356	476	3.78	
PCB-152	*	*	n	NotFnd	0.89	*	356	476	3.82	
PCB-145	*	*	n	NotFnd	0.89	*	356	476	3.84	
PCB-136	*	*	n	NotFnd	0.92	*	356	476	3.70	
PCB-148	*	*	n	NotFnd	0.64	*	356	476	5.29	
PCB-154	*	*	n	NotFnd	0.80	*	356	476	4.26	
13C-PCB-155	2.47e+07	1.25	y	34:14	1.12	10300				103
13C-PCB-111	2.51e+07	1.57	y	36:21	1.14	10300				103
13C-PCB-101	2.14e+07	1.57	y	34:41	-	46.6				
PCB-84	9.91e+04	1.63	y	34:16	0.78	62.8	-	-	*	Co-elute PCB 92
PCB-92	9.91e+04	1.63	y	34:16	0.78	62.8	-	-	*	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.75	*	744	720	11.2	
PCB-90	*	*	n	NotFnd	0.87	*	744	720	9.67	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.87	*	744	720	9.67	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.97	*	744	720	8.76	
PCB-99	*	*	n	NotFnd	0.99	*	744	720	8.53	
PCB-119	*	*	n	NotFnd	1.14	*	744	720	7.42	
PCB-83	*	*	n	NotFnd	0.87	*	744	720	9.77	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.87	*	744	720	9.77	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.04	*	744	720	8.11	
PCB-97	*	*	n	NotFnd	0.96	*	744	720	8.86	
PCB-86	*	*	n	NotFnd	0.80	*	744	720	10.6	
PCB-125	*	*	n	NotFnd	1.00	*	744	720	8.43	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	1.00	*	744	720	8.43	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	1.00	*	744	720	8.43	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.23	*	744	720	6.87	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.23	*	744	720	6.87	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.94	*	744	720	8.97	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.94	*	744	720	8.97	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.20	*	744	720	7.08	
PCB-110	*	*	n	NotFnd	1.14	*	744	720	7.45	
PCB-82	*	*	n	NotFnd	0.67	*	744	720	12.5	
PCB-124	*	*	n	NotFnd	0.99	*	368	548	5.34	
PCB-108	*	*	n	NotFnd	0.97	*	368	548	5.47	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	0.97	*	368	548	5.47	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.12	*	368	548	4.52	
13C-PCB-123	1.96e+07	1.56	y	38:23	1.00	10500				105
PCB-118	*	*	n	NotFnd	0.92	*	368	548	5.86	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	0.92	*	368	548	5.86	Co-elute PCB 118
13C-PCB-118	2.09e+07	1.58	y	38:32	1.05	10600				106
PCB-114	*	*	n	NotFnd	1.03	*	368	548	4.79	
13C-PCB-114	2.04e+07	1.59	y	39:10	1.02	10700				107
PCB-122	*	*	n	NotFnd	0.97	*	368	548	5.48	
PCB-105	*	*	n	NotFnd	1.00	*	368	548	5.77	
13C-PCB-105	1.99e+07	1.60	y	39:60	1.02	10400				104

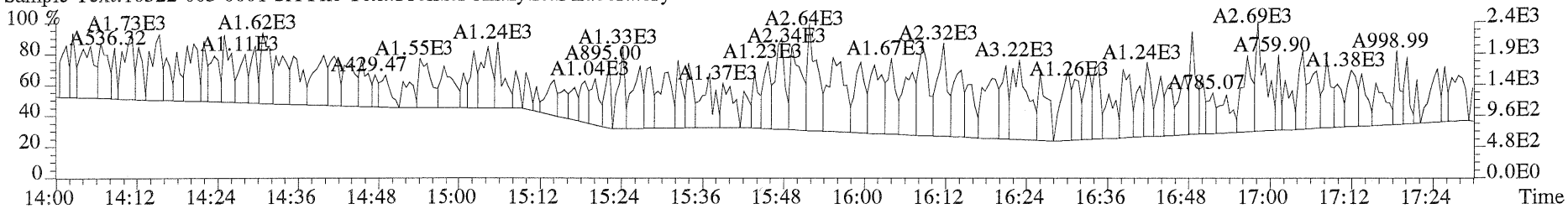
PCB-127	*	*	n	NotFnd	0.93	*		368	548	5.69	
PCB-126	*	*	n	NotFnd	1.00	*		368	548	6.36	
13C-PCB-126	1.87e+07	1.57	y	42:08	0.95	10400					104
PCB-151	*	*	n	NotFnd	0.70	*		448	444	6.48	
PCB-135	*	*	n	NotFnd	0.70	*		448	444	6.51	
PCB-144	*	*	n	NotFnd	0.71	*		448	444	6.44	
PCB-147	*	*	n	NotFnd	0.78	*		448	444	5.88	
PCB-139	*	*	n	NotFnd	0.76	*		448	444	5.98	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	0.76	*		448	444	5.98	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.75	*		448	444	6.06	
PCB-143	*	*	n	NotFnd	0.70	*		448	444	6.54	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.70	*		448	444	6.54	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.70	*		448	444	6.51	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.70	*		448	444	6.51	Co-elute PCB 131
PCB-142	5.85e+06	1.26	y	39:32	0.63	4290		-	-	*	
PCB-165	*	*	n	NotFnd	0.84	*		448	444	5.41	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	0.84	*		448	444	5.41	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	0.77	*		448	444	5.91	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	0.77	*		448	444	5.91	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	0.86	*		448	444	5.28	
PCB-168	1.48e+05	1.26	y	40:11	0.92	74.5		-	-	*	
PCB-141	*	*	n	NotFnd	0.72	*		448	444	6.32	
PCB-137	*	*	n	NotFnd	0.63	*		448	444	7.19	
PCB-130	*	*	n	NotFnd	0.69	*		448	444	6.59	
PCB-138	*	*	n	NotFnd	0.94	*		448	444	4.84	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	0.94	*		448	444	4.84	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	0.94	*		448	444	4.84	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	0.95	*		448	444	4.82	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	0.95	*		448	444	4.82	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.59	*		448	444	7.75	
PCB-166	*	*	n	NotFnd	0.90	*		448	444	5.07	
PCB-159	*	*	n	NotFnd	0.97	*		448	444	4.72	
PCB-128	*	*	n	NotFnd	0.79	*		448	444	5.80	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	0.79	*		448	444	5.80	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	0.88	*		448	444	5.18	
13C-PCB-167	2.22e+07	1.25	y	43:29	1.14	10400					104
PCB-156	*	*	n	NotFnd	0.93	*		448	444	4.88	
13C-PCB-156	2.15e+07	1.26	y	44:43	1.12	10200					102
PCB-157	*	*	n	NotFnd	0.89	*		448	444	5.45	
13C-PCB-157	2.23e+07	1.27	y	44:58	1.14	10400					104
PCB-169	*	*	n	NotFnd	0.88	*		448	444	4.89	
13C-PCB-169	2.04e+07	1.24	y	46:51	1.07	10200					102

FAL ID: 10322-003-0001-SA Filename: 06JAN17Z Sam:7 Acquired: 6-JAN-17 14:04:12 ICal: DAILY209FAL4-1-6-17
Client ID: LDW-BA-SU-S010-TB-EXSITU3 ConCal: ST010617Z1 EndCal: ST010617Z2
Results: 10322 GC Column: DB1 Amount: 1.000

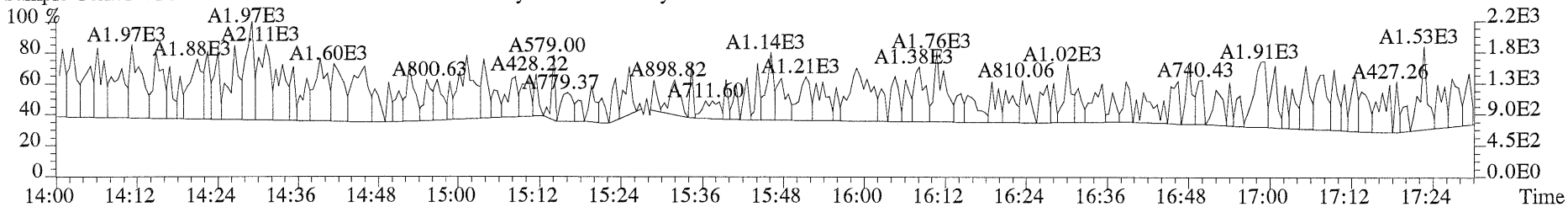
PCB-188	*	*	n	NotFnd	1.00	*	716	348	4.76	
13C-PCB-188	2.33e+07	1.07	y	39:45	1.26	9870				98.7
PCB-184	1.43e+07	1.03	y	40:11	1.08	6020	-	-	*	
PCB-179	*	*	n	NotFnd	1.04	*	716	348	4.39	
PCB-176	*	*	n	NotFnd	1.01	*	716	348	4.51	
PCB-186	*	*	n	NotFnd	1.00	*	716	348	4.57	
PCB-178	*	*	n	NotFnd	0.74	*	716	348	6.21	
PCB-175	*	*	n	NotFnd	0.78	*	716	348	5.85	
PCB-187	*	*	n	NotFnd	0.83	*	716	348	5.53	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.83	*	716	348	5.53	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.82	*	716	348	5.56	
PCB-185	*	*	n	NotFnd	0.76	*	716	348	6.00	
PCB-174	*	*	n	NotFnd	0.74	*	716	348	6.16	
PCB-181	*	*	n	NotFnd	0.79	*	716	348	5.75	
PCB-177	*	*	n	NotFnd	0.71	*	716	348	6.42	
PCB-171	*	*	n	NotFnd	0.74	*	716	348	6.17	
PCB-173	*	*	n	NotFnd	0.68	*	716	348	6.69	
PCB-172	1.83e+05	1.19	y	45:29	0.71	117	-	-	*	
PCB-192	8.77e+06	1.06	y	45:42	0.92	4330	-	-	*	
PCB-180	*	*	n	NotFnd	0.92	*	716	348	4.97	
PCB-193	*	*	n	NotFnd	1.01	*	716	348	4.51	
PCB-191	*	*	n	NotFnd	0.97	*	716	348	4.73	
PCB-170	*	*	n	NotFnd	0.67	*	716	348	6.86	
PCB-190	*	*	n	NotFnd	0.93	*	716	348	4.93	
PCB-189	*	*	n	NotFnd	1.00	*	716	348	4.32	
13C-PCB-189	2.07e+07	1.05	y	48:32	1.07	10300				103
PCB-202	*	*	n	NotFnd	0.83	*	320	468	4.92	
PCB-201	*	*	n	NotFnd	0.84	*	320	468	4.84	
PCB-204	1.53e+07	0.90	y	45:29	0.87	8030	-	-	*	
PCB-197	1.31e+05	0.96	y	45:45	0.89	67.0	-	-	*	
PCB-200	*	*	n	NotFnd	0.84	*	320	468	4.85	
PCB-198	*	*	n	NotFnd	0.61	*	320	468	6.67	
PCB-199	*	*	n	NotFnd	0.63	*	320	468	6.54	
PCB-203	*	*	n	NotFnd	0.67	*	320	468	6.12	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.67	*	320	468	6.12	Co-elute PCB 203
13C-PCB-202	2.19e+07	0.92	y	44:53	1.12	10400				104
13C-PCB-178	1.68e+07	1.06	y	42:23	0.89	10000				100
13C-PCB-138	1.88e+07	1.25	y	41:37	-	45.3				
PCB-195	*	*	n	NotFnd	0.72	*	312	424	5.39	
PCB-194	*	*	n	NotFnd	0.77	*	312	424	5.04	
PCB-205	*	*	n	NotFnd	0.99	*	312	424	3.92	
13C-PCB-205	1.59e+07	0.89	y	50:14	1.22	9910				99.1
PCB-208	*	*	n	NotFnd	0.89	*	288	292	2.89	
13C-PCB-208	1.72e+07	0.79	y	49:15	1.31	10000				100
PCB-207	6.20e+04	1.19	y	49:35	0.98	43.1	-	-	*	
PCB-206	*	*	n	NotFnd	0.92	*	288	292	4.31	
13C-PCB-206	1.23e+07	0.78	y	51:29	0.97	9670				96.7
PCB-209	6.12e+04	1.29	y	52:45	0.96	35.7	-	-	*	
13C-PCB-209	1.79e+07	1.19	y	52:43	1.46	9320				93.2
13C-PCB-194	1.31e+07	0.91	y	49:58	-	46.1				

Analyst: _____ Date: 1/10/17

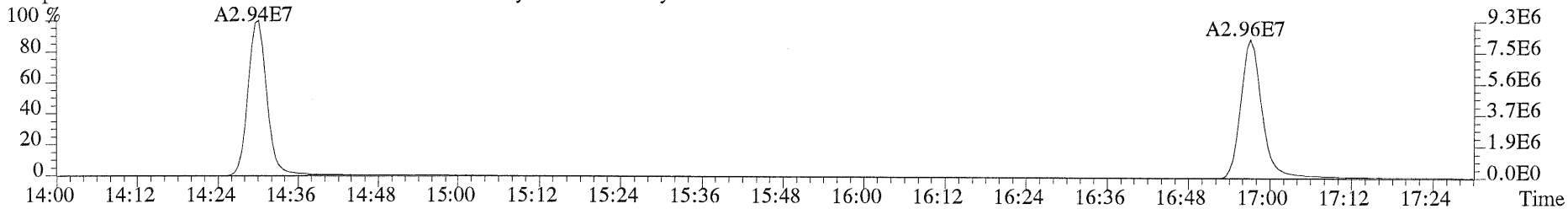
File:06JAN17Z #1-783 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



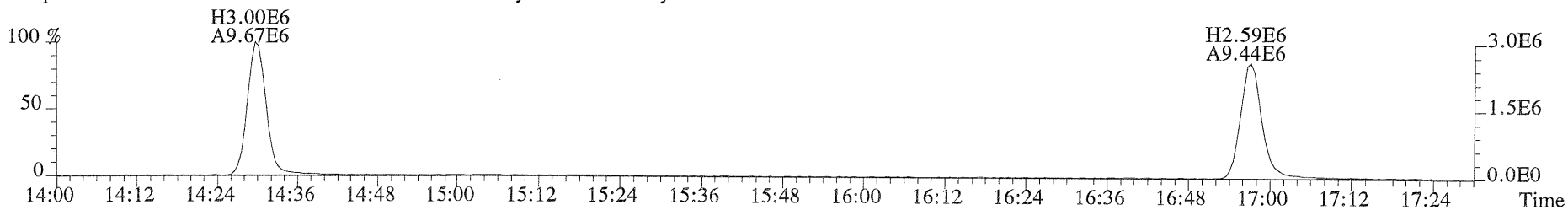
File:06JAN17Z #1-783 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-783 Acq: 6-JAN-2017 14:04:12 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:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-783 Acq: 6-JAN-2017 14:04:12 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:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-509 Acq: 6-JAN-2017 14:04:12 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
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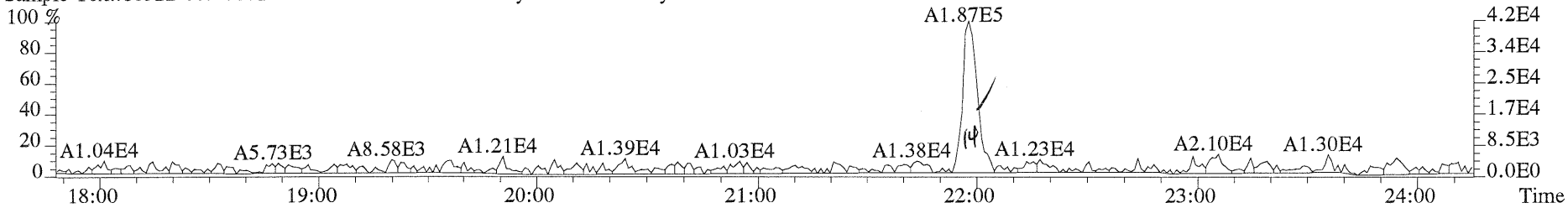
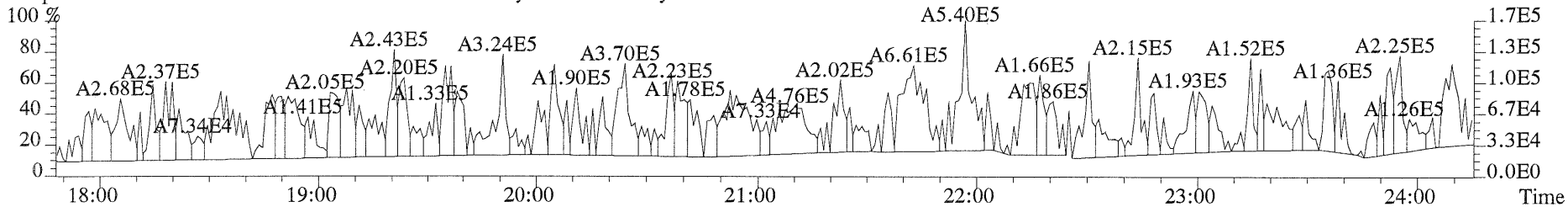
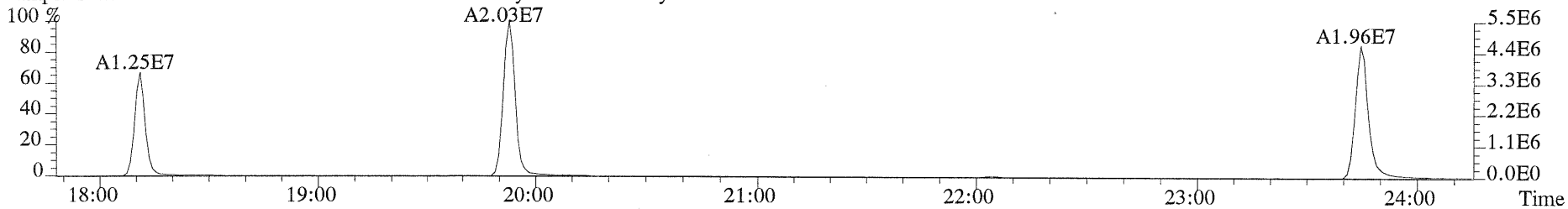


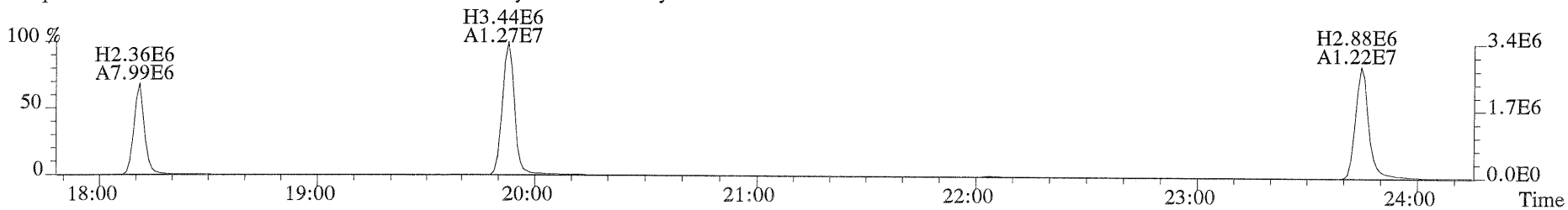
File:06JAN17Z #1-509 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



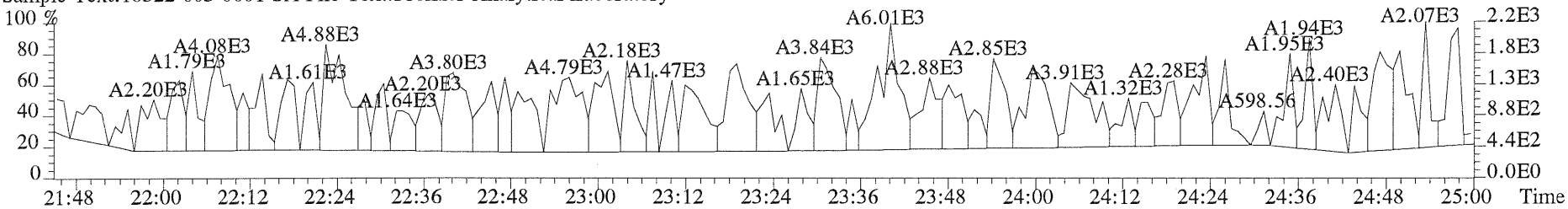
File:06JAN17Z #1-509 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



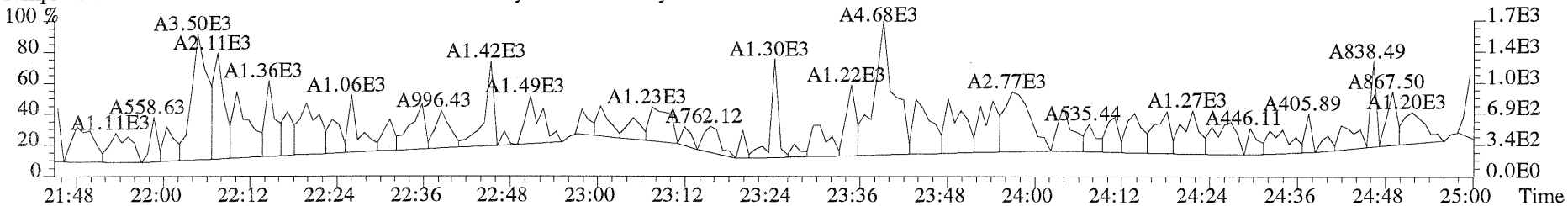
File:06JAN17Z #1-509 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



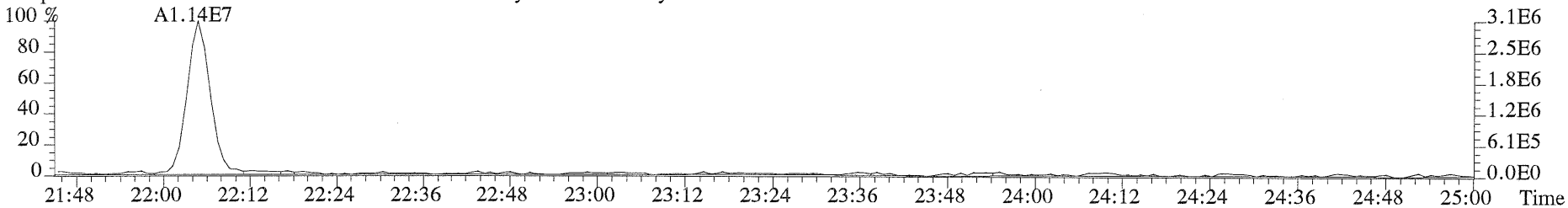
File:06JAN17Z #1-509 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



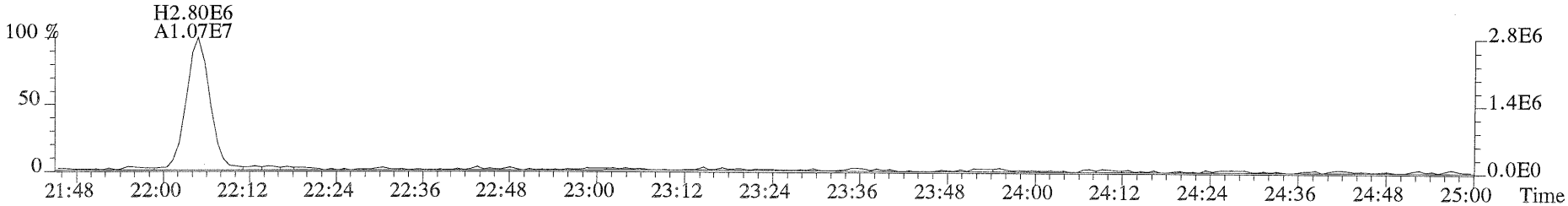
File:06JAN17Z #1-509 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



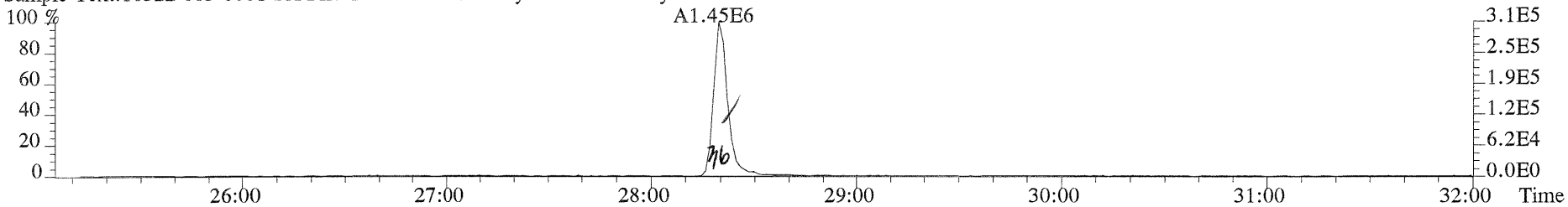
File:06JAN17Z #1-509 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



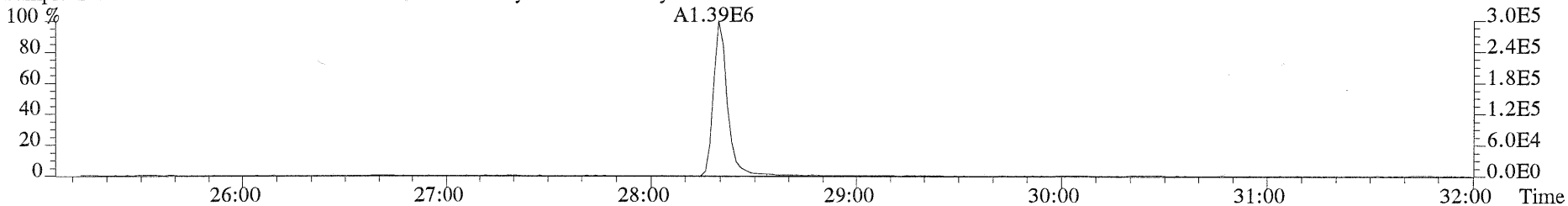
File:06JAN17Z #1-509 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-407 Acq: 6-JAN-2017 14:04:12 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:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-407 Acq: 6-JAN-2017 14:04:12 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:10322-003-0001-SA File Text:Frontier Analytical Laboratory



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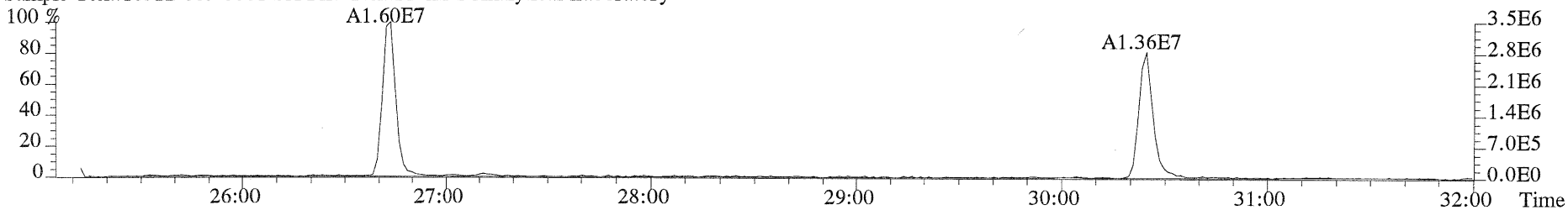
268.0016 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



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269.9986 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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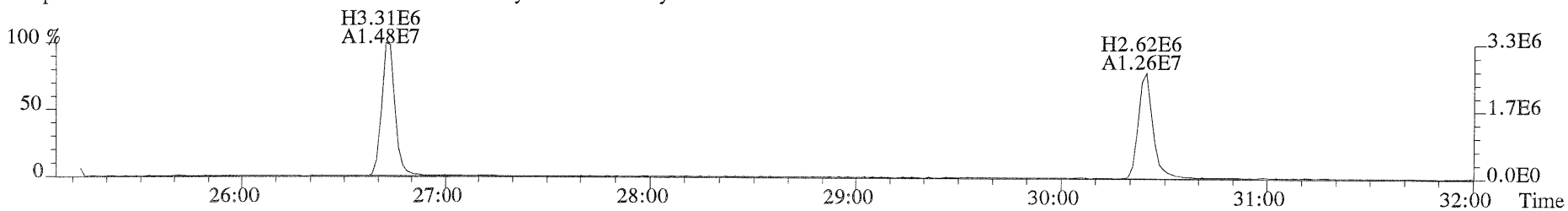
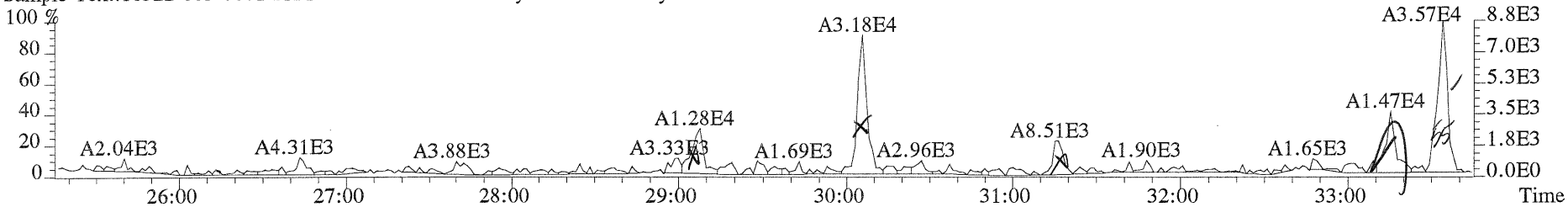
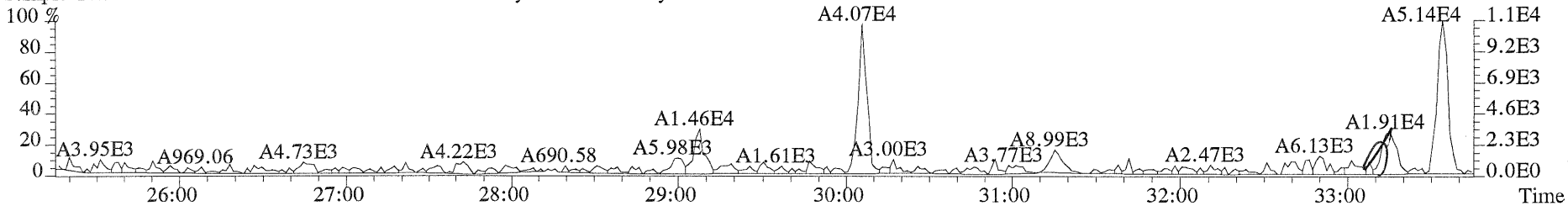


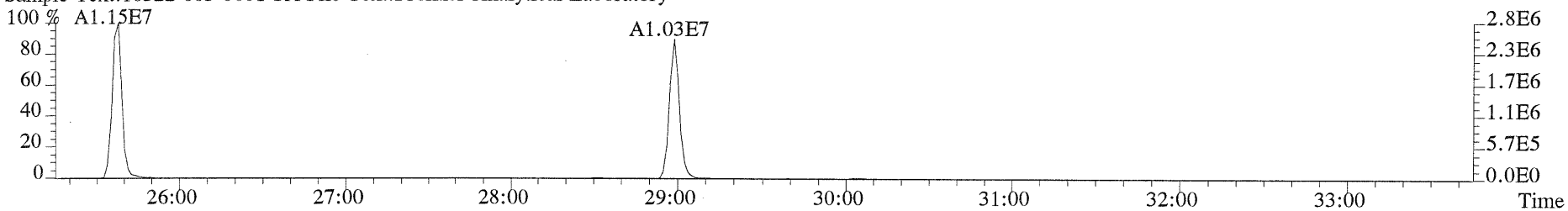
File:06JAN17Z #1-407 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



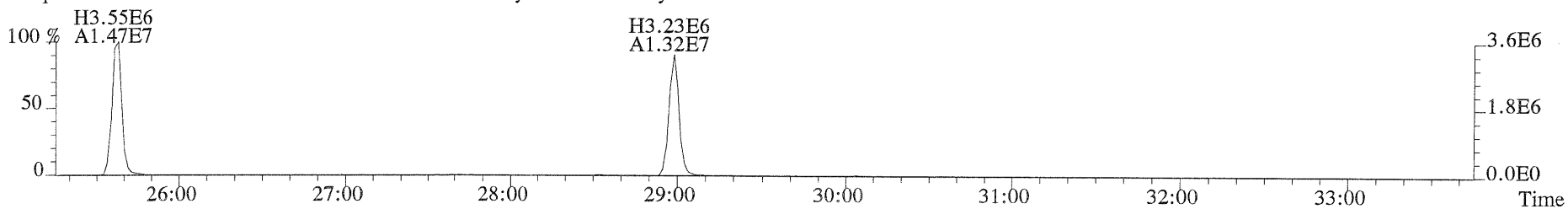
File:06JAN17Z #1-407 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



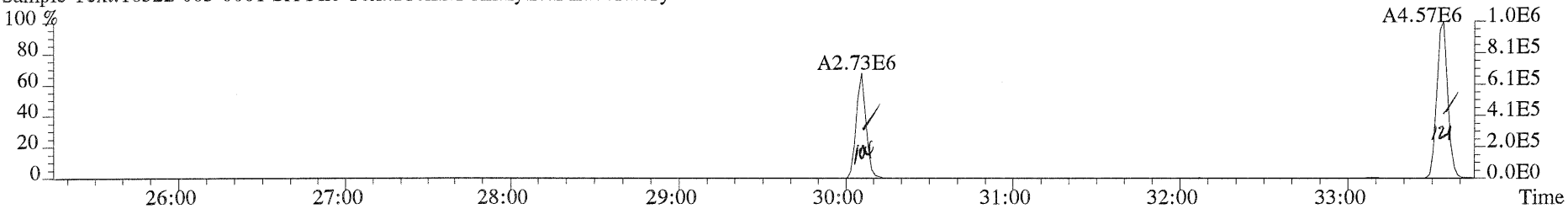
File:06JAN17Z #1-407 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



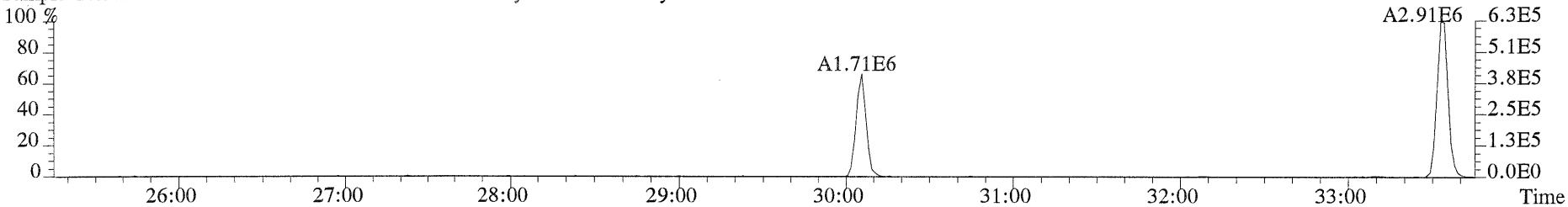
File:06JAN17Z #1-407 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



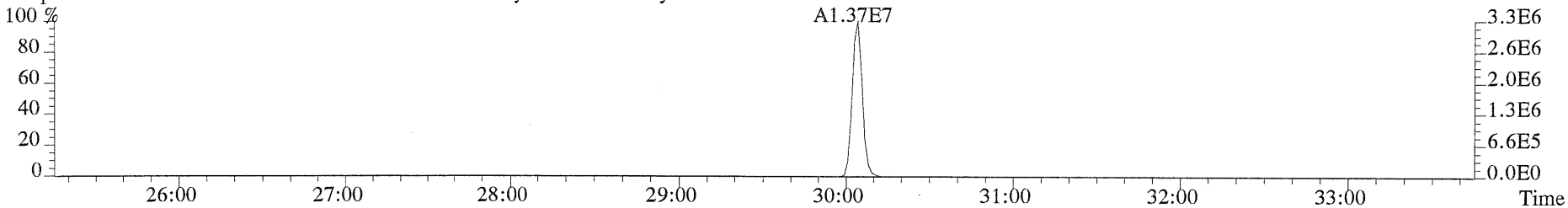
File:06JAN17Z #1-407 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



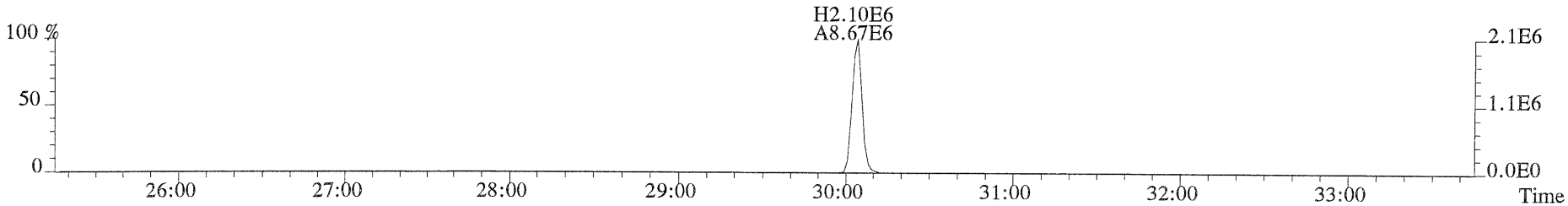
File:06JAN17Z #1-407 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



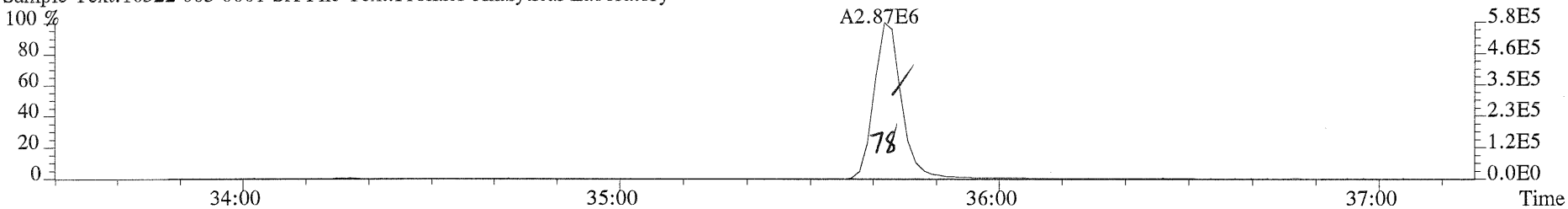
File:06JAN17Z #1-407 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-407 Acq: 6-JAN-2017 14:04:12 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:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-181 Acq: 6-JAN-2017 14:04:12 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:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-181 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
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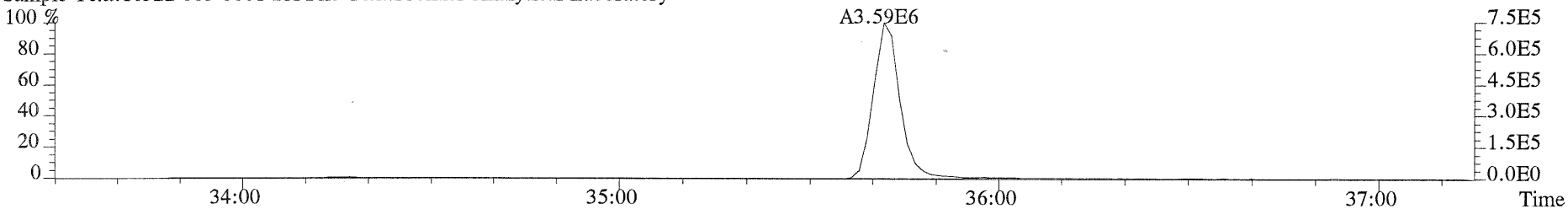
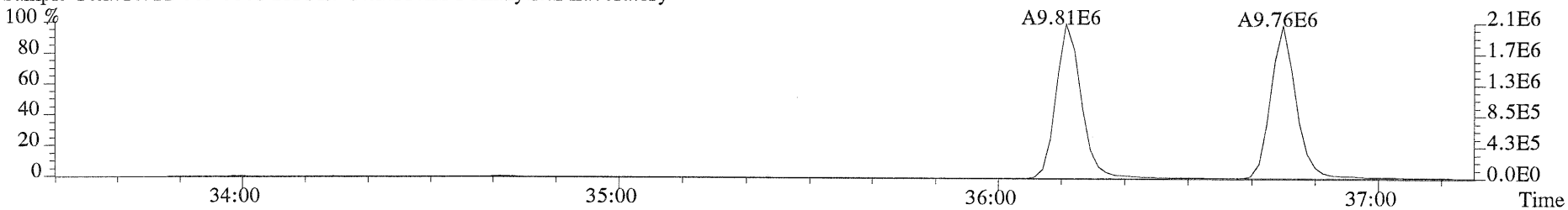
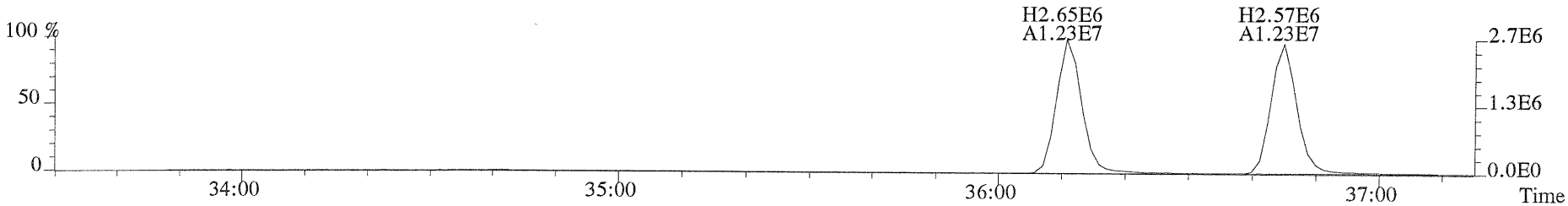
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



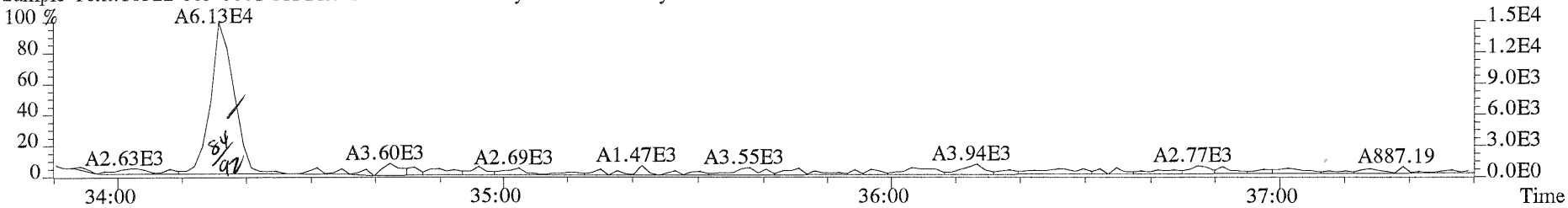
File:06JAN17Z #1-181 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



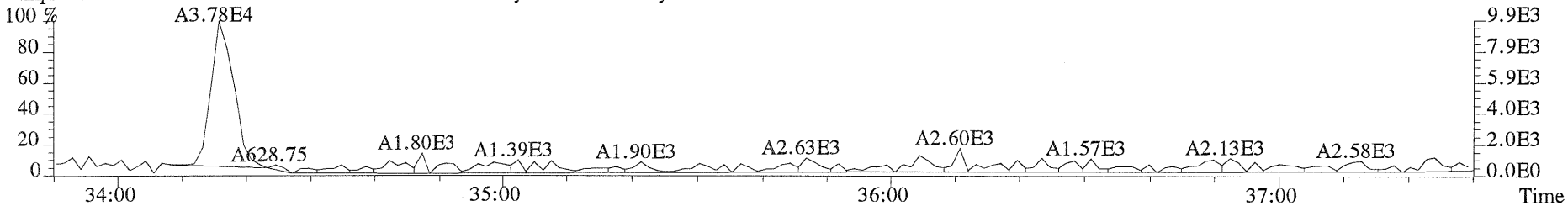
File:06JAN17Z #1-181 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



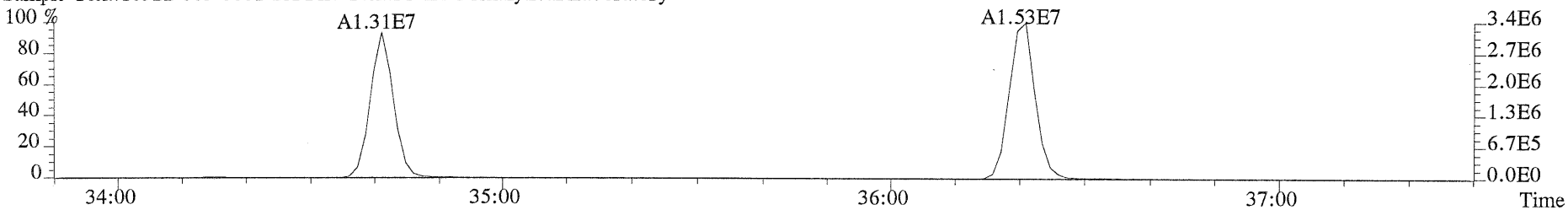
File:06JAN17Z #1-181 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



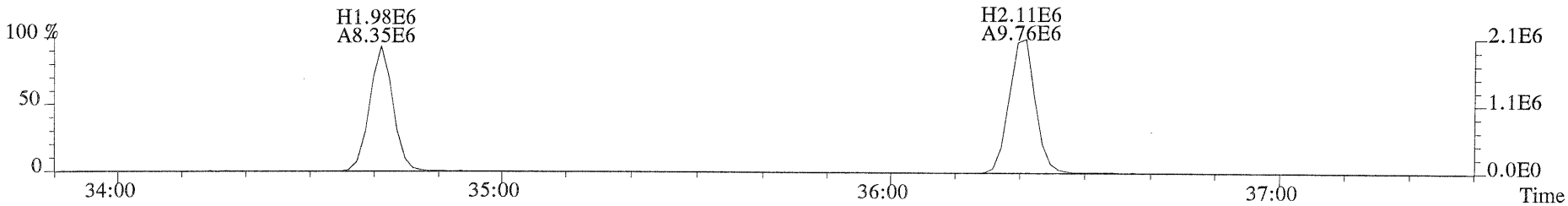
File:06JAN17Z #1-181 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



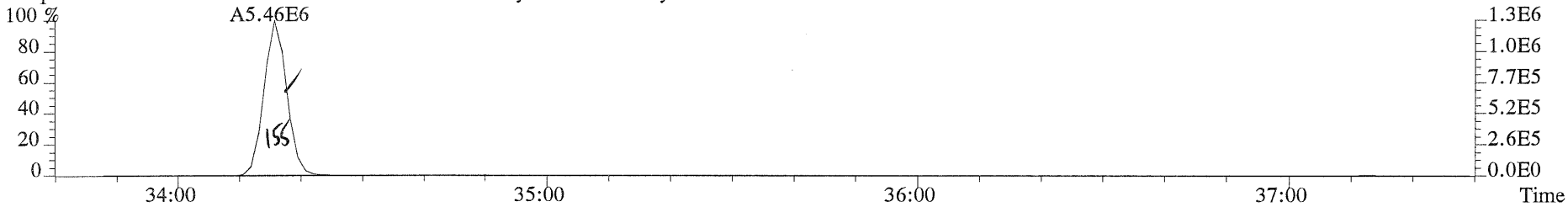
File:06JAN17Z #1-181 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



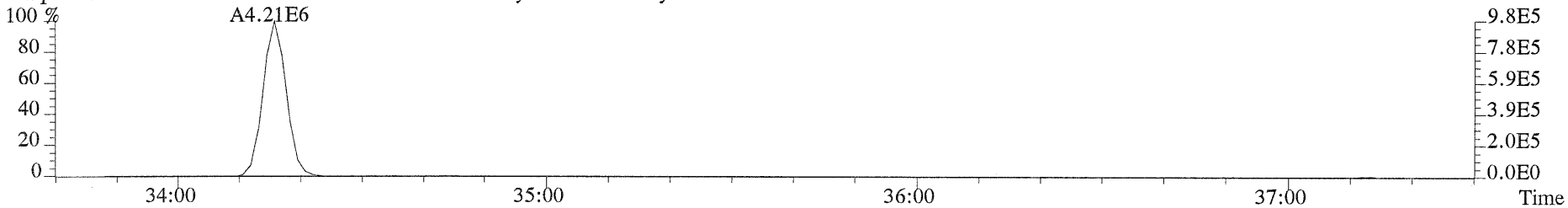
File:06JAN17Z #1-181 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



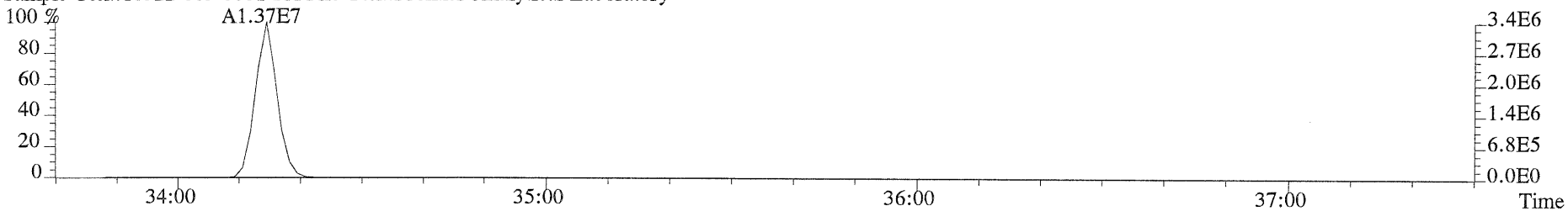
File:06JAN17Z #1-181 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



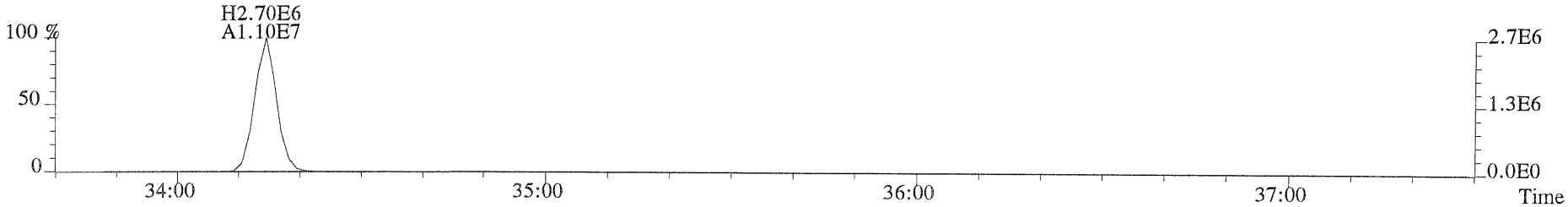
File:06JAN17Z #1-181 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



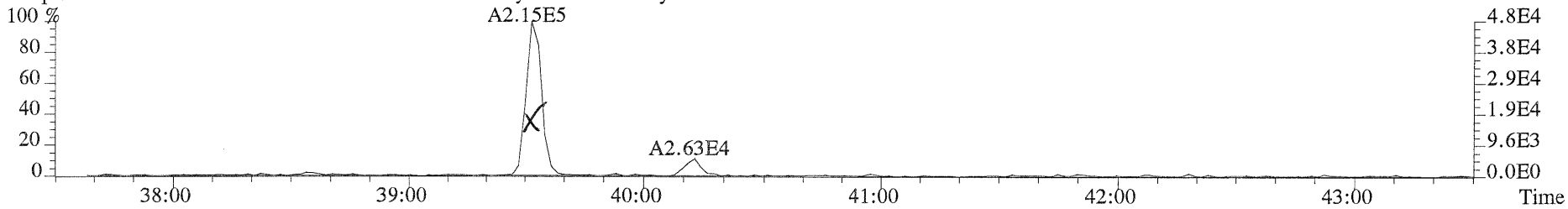
File:06JAN17Z #1-181 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



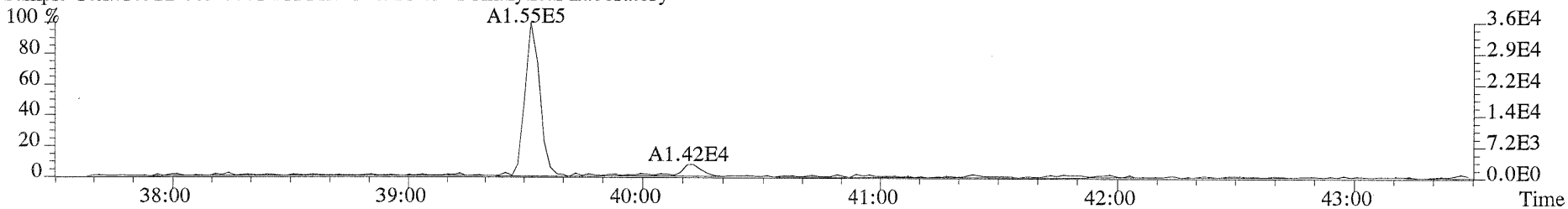
File:06JAN17Z #1-181 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 14:04:12 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:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 14:04:12 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:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
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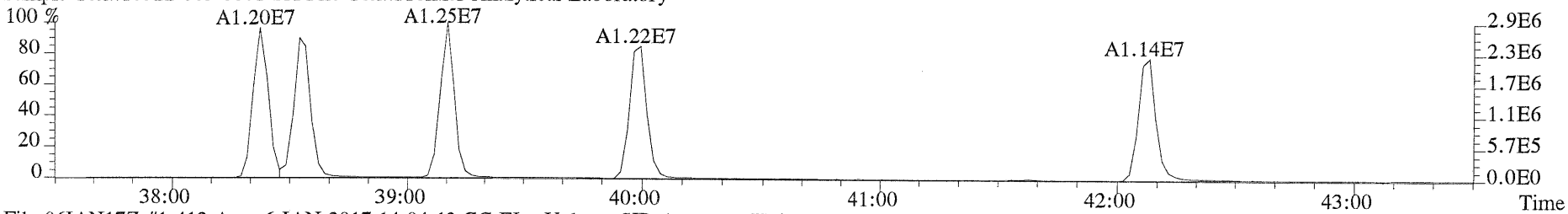
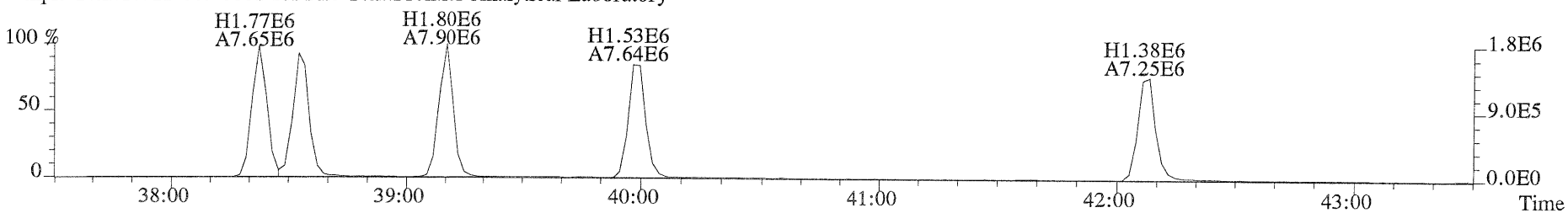
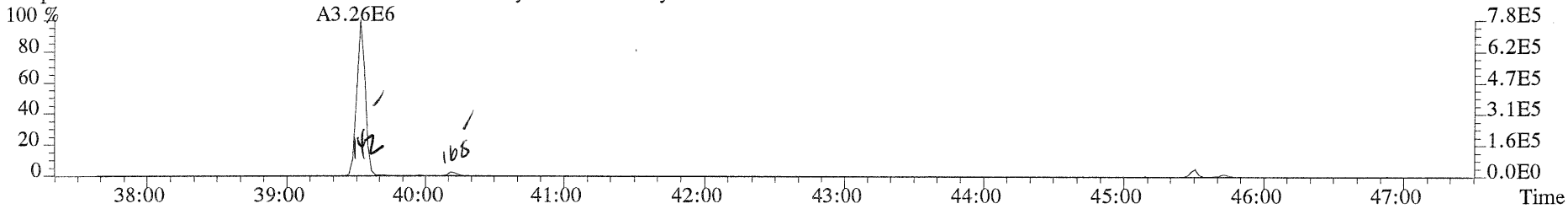
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



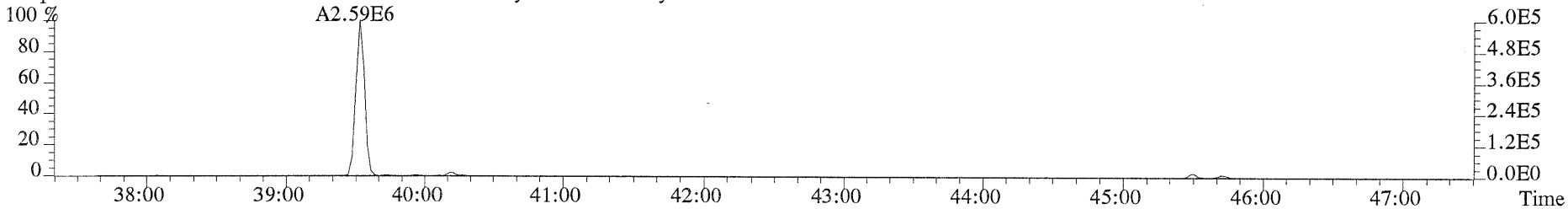
File:06JAN17Z #1-413 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 14:04:12 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:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 14:04:12 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:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
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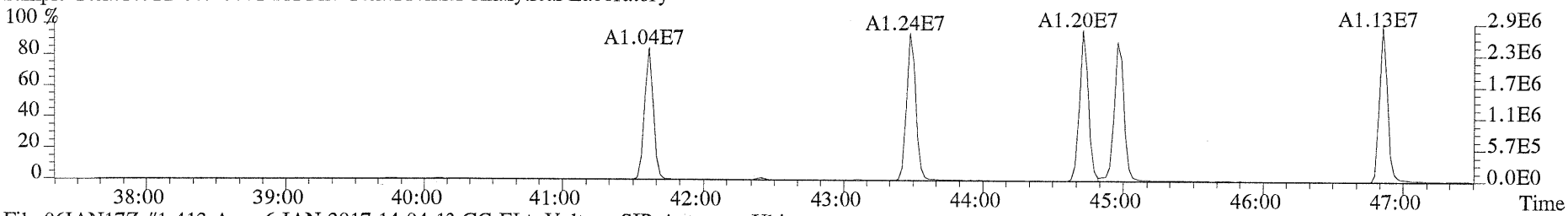
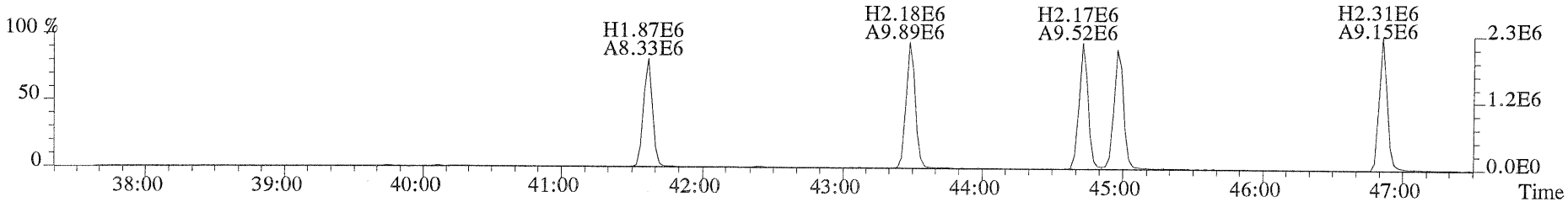
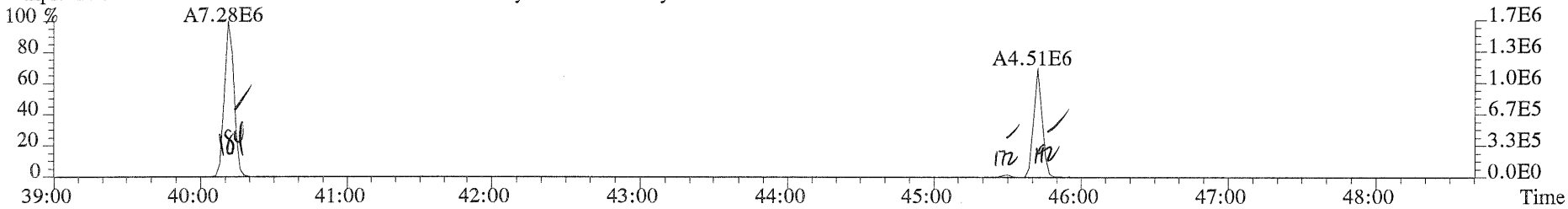
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 14:04:12 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:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 14:04:12 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:10322-003-0001-SA File Text:Frontier Analytical Laboratory



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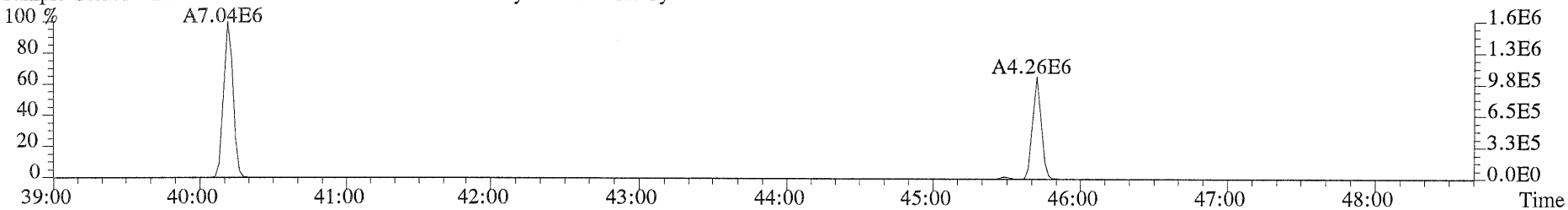
395.7995 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



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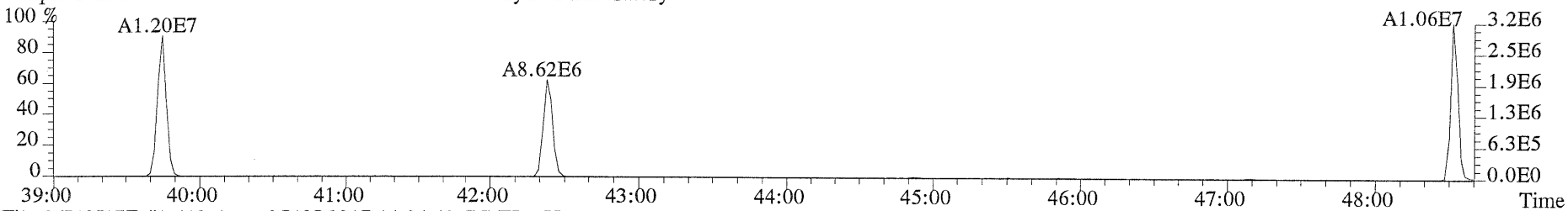
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



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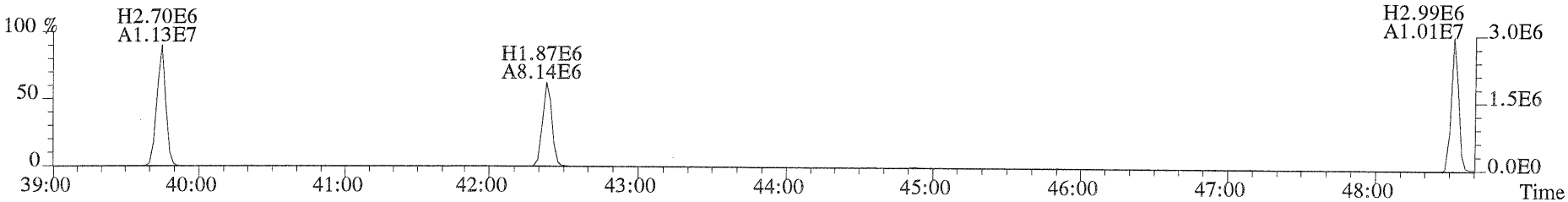
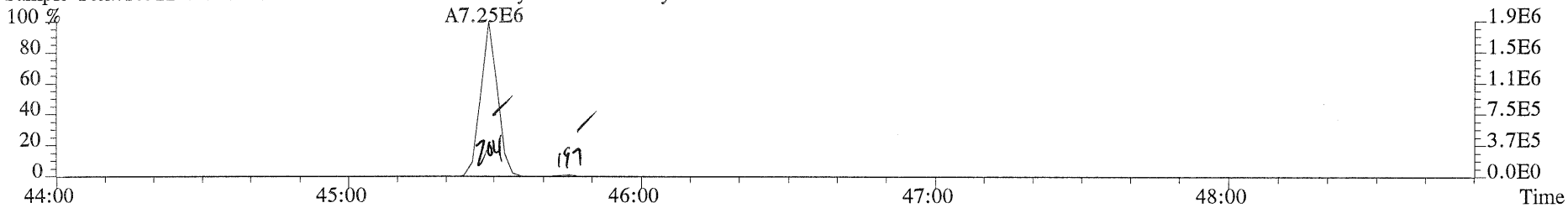
407.8398 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 14:04:12 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:10322-003-0001-SA File Text:Frontier Analytical Laboratory



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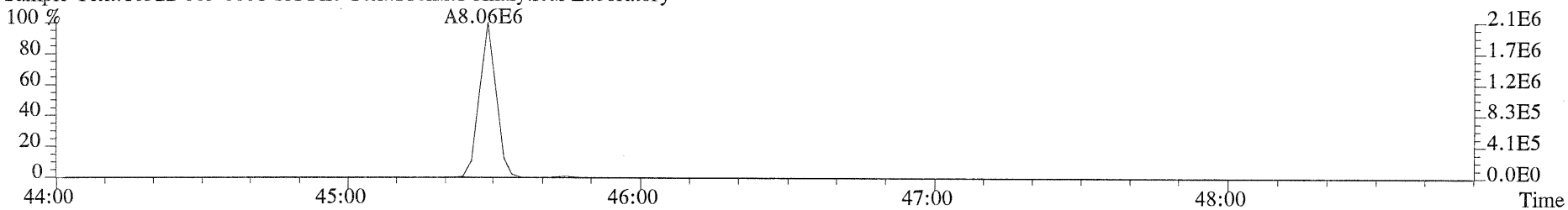
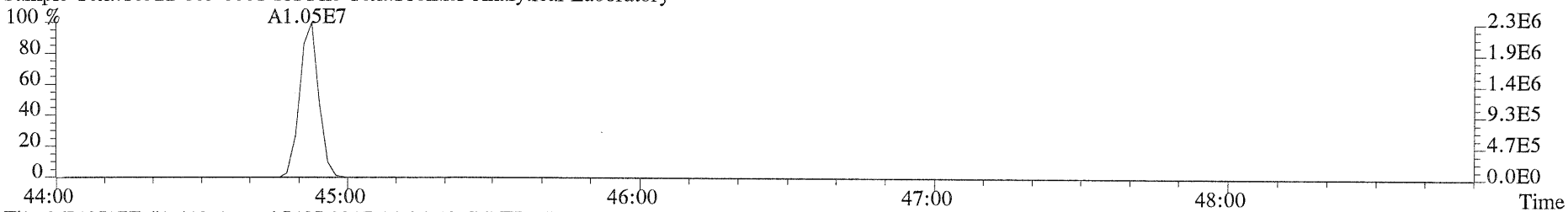
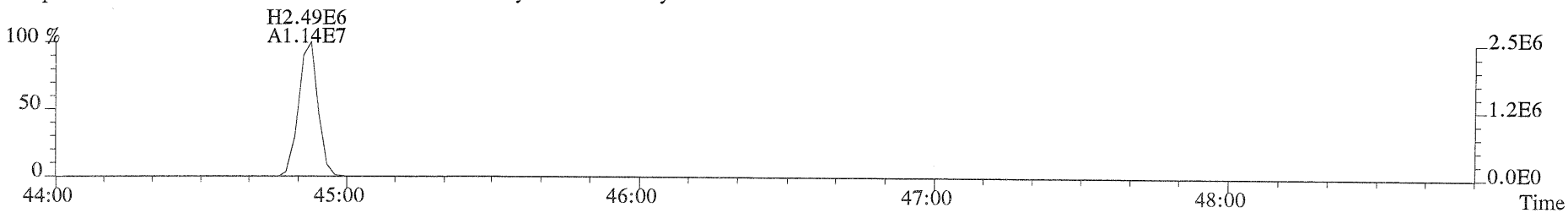
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



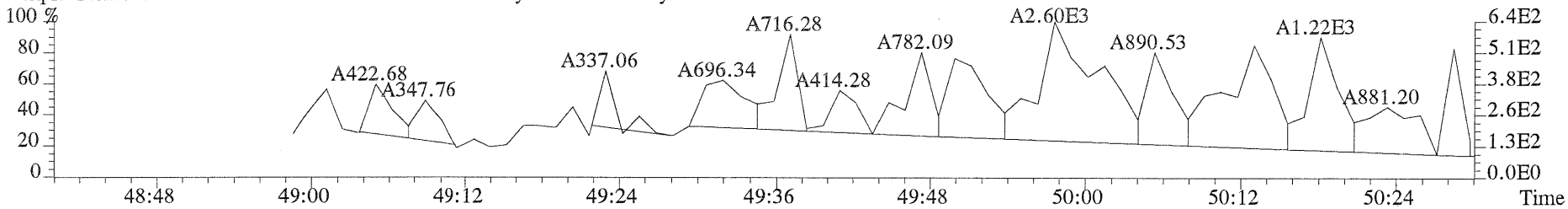
File:06JAN17Z #1-413 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 14:04:12 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:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-306 Acq: 6-JAN-2017 14:04:12 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:10322-003-0001-SA File Text:Frontier Analytical Laboratory



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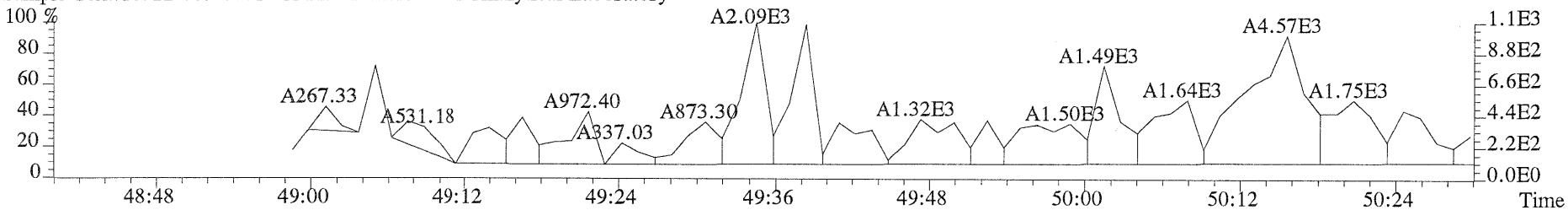
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-306 Acq: 6-JAN-2017 14:04:12 GC EI+ Voltage SIR Autospec-Ultima
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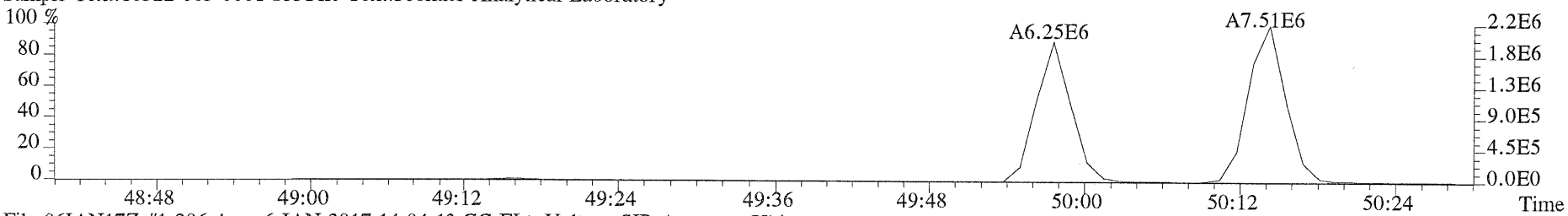
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



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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
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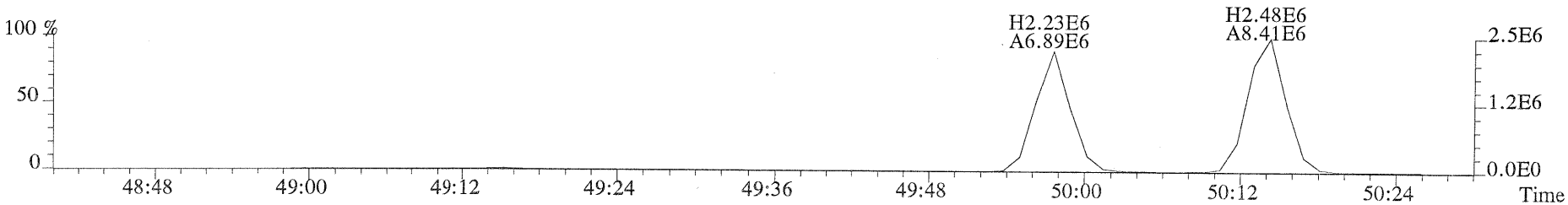

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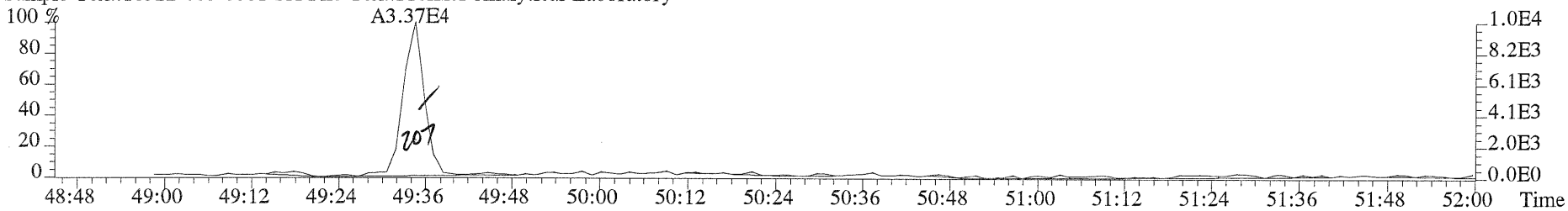
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



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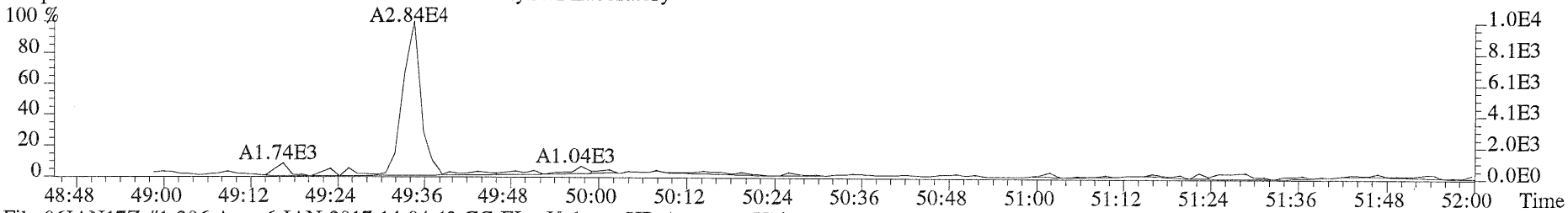

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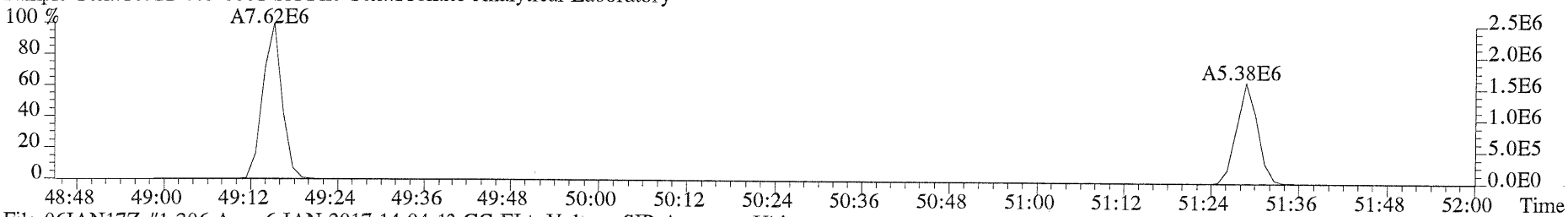
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



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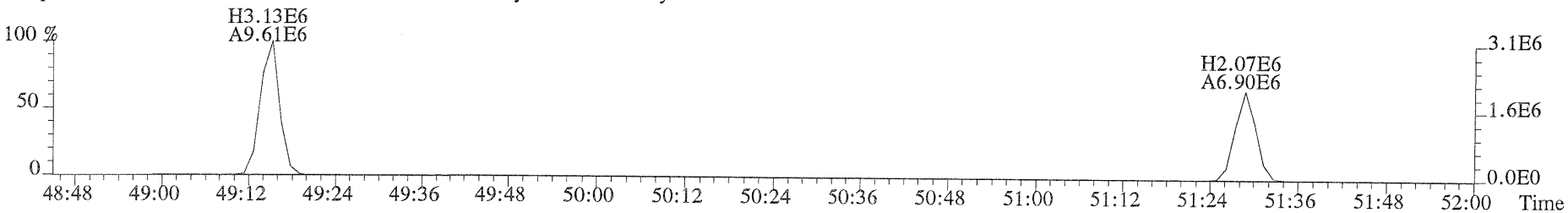
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



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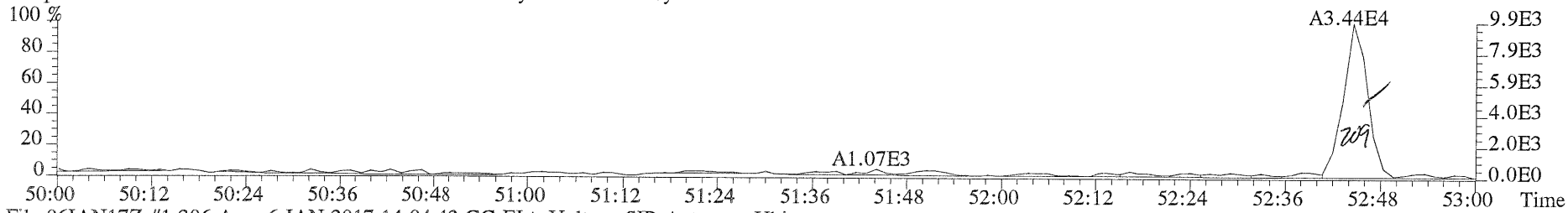
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



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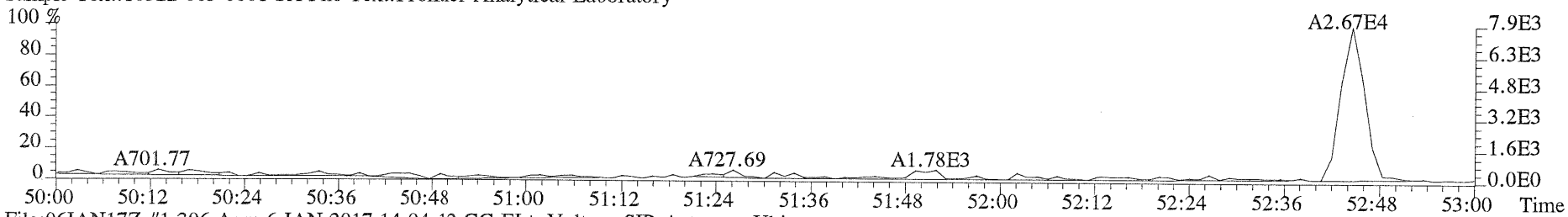

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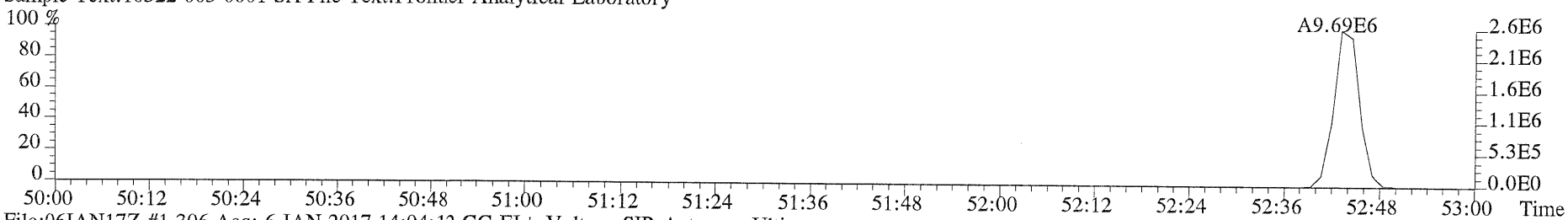
509.7229 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10322-003-0001-SA File Text:Frontier Analytical Laboratory



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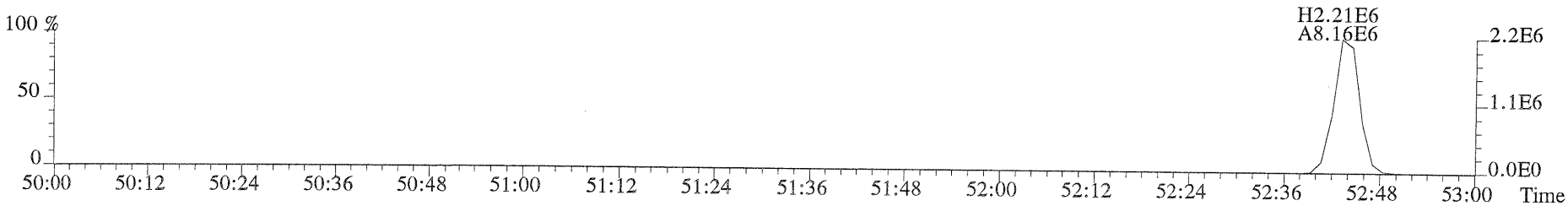


Frontier Analytical Laboratory

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: 8/18/16

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: 8/10/16

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

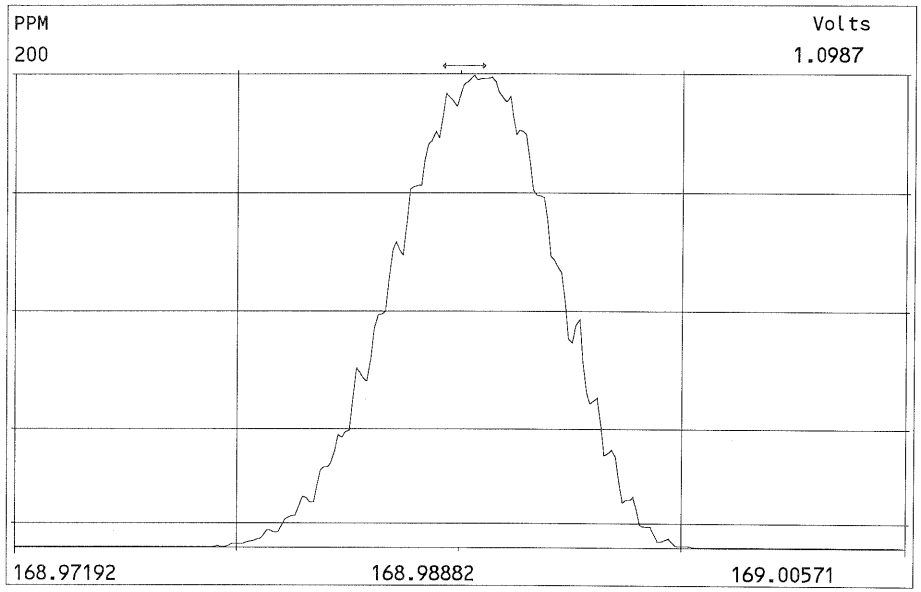
8/12/16

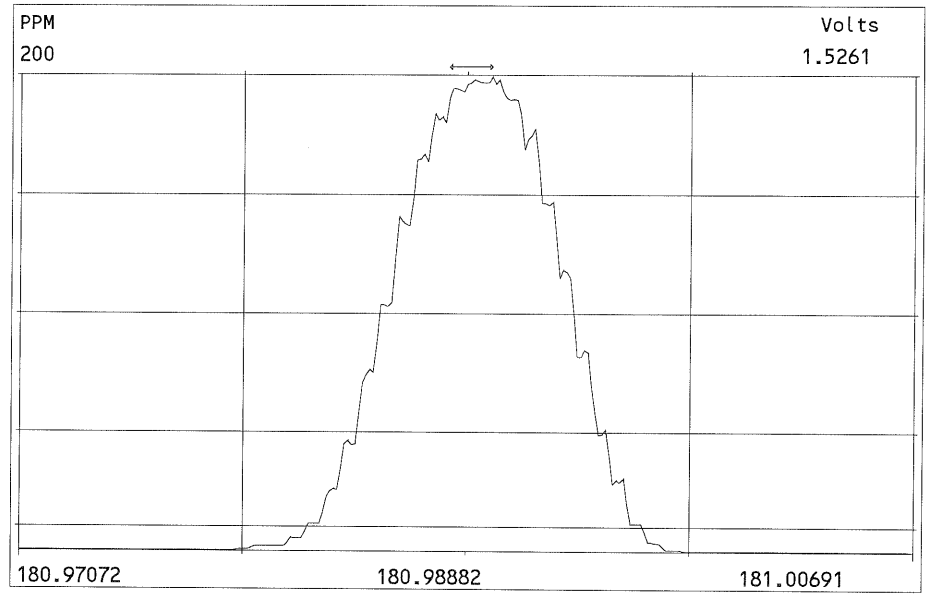
Data Backed Up:_____

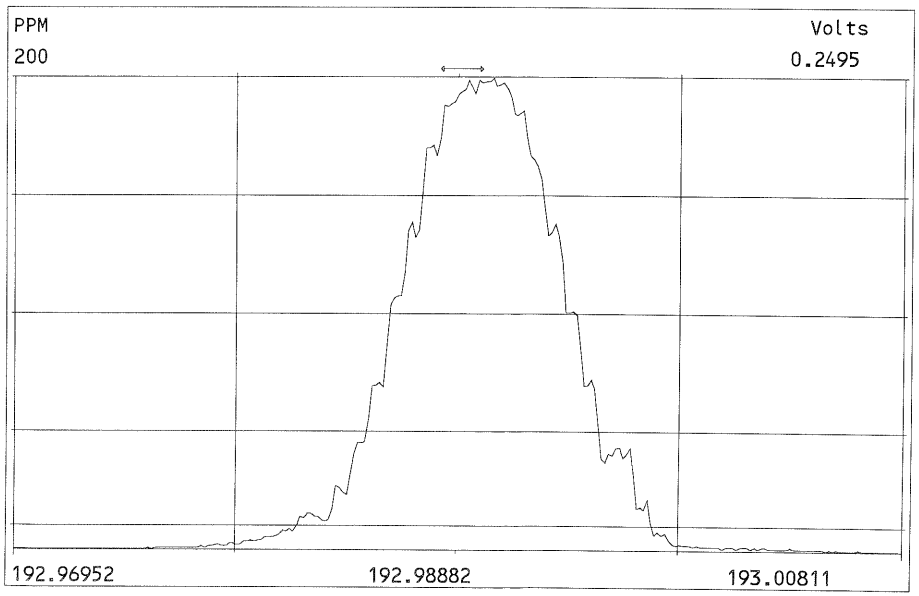
Date:_____

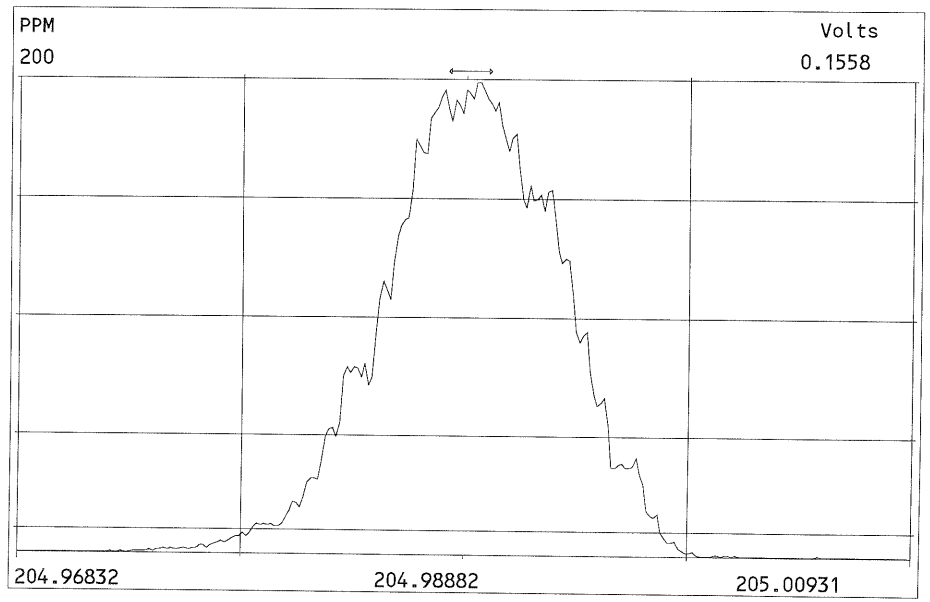
Peak Locate Examination:11-AUG-2016:11:21 File:11AUG16Z PFK-01

Experiment:1668PCB Function:1 Reference:PFK



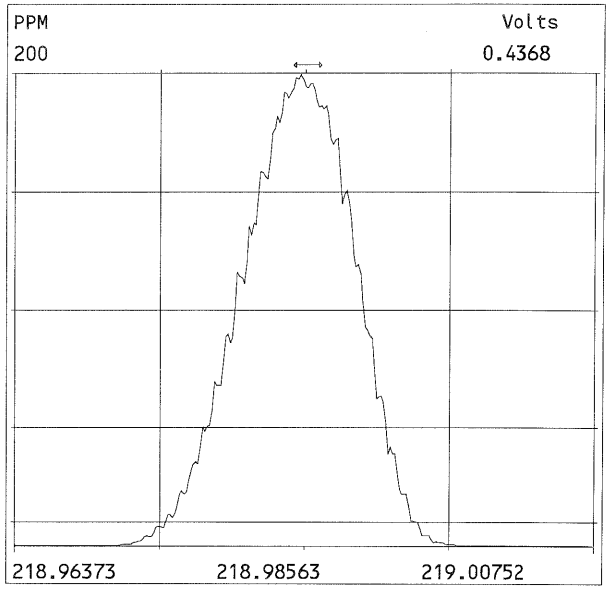


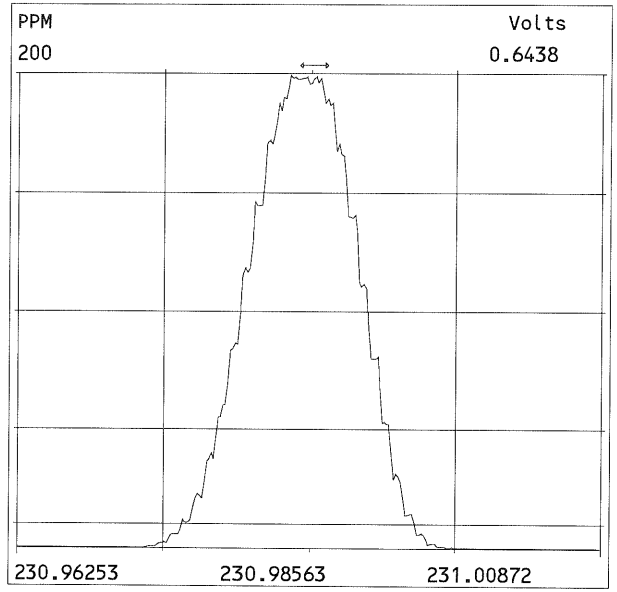


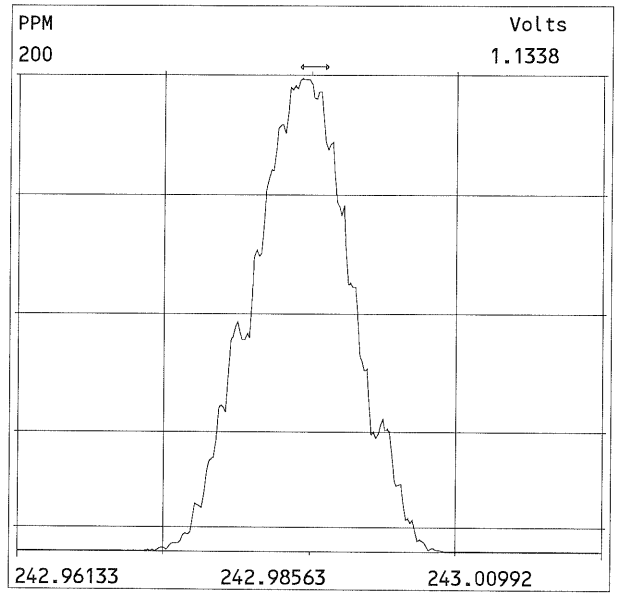


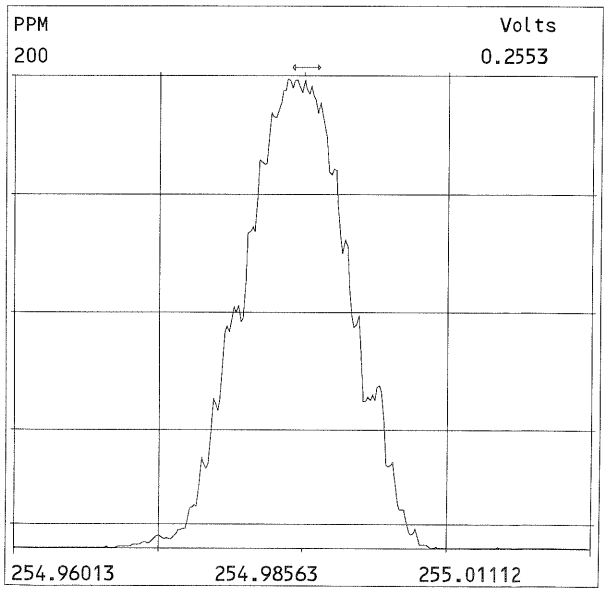
Peak Locate Examination:11-AUG-2016:11:22 File:11AUG16Z PFK01

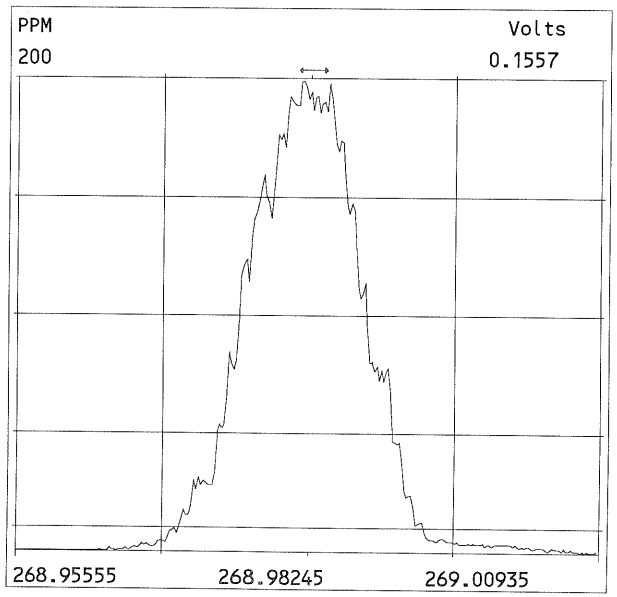
Experiment:1668PCB Function:2 Reference:PFK

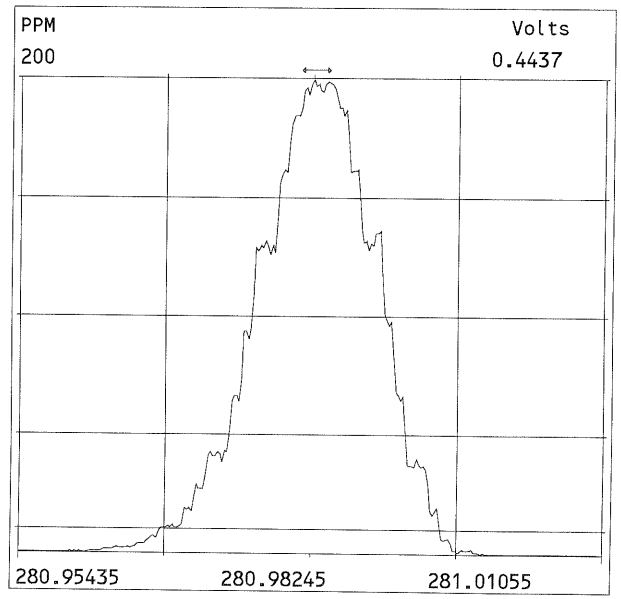






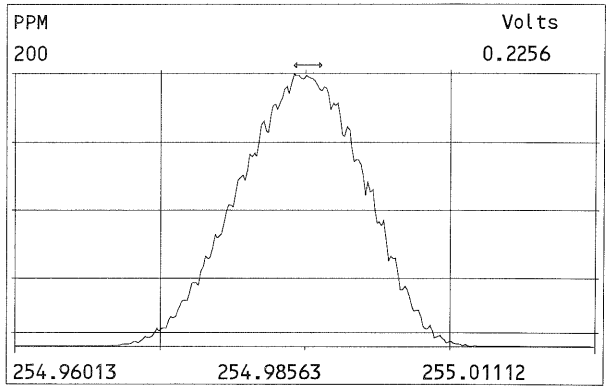


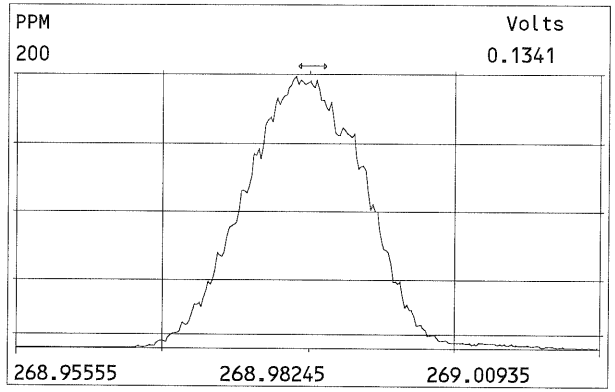


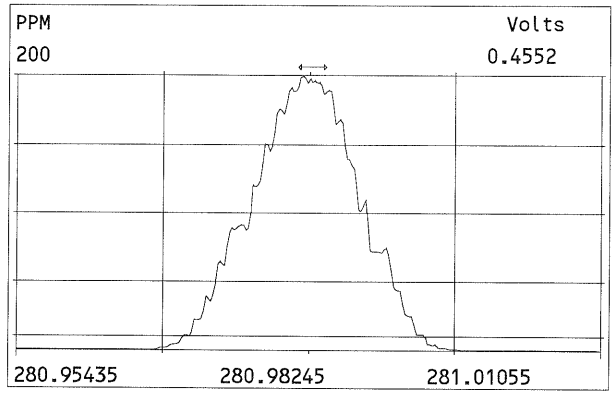


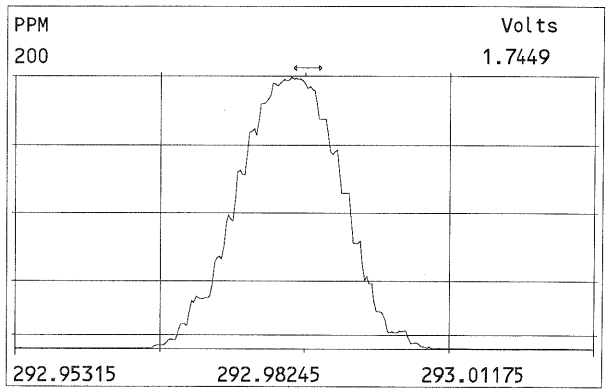
Peak Locate Examination:11-AUG-2016:11:22 File:11AUG16Z PFK01

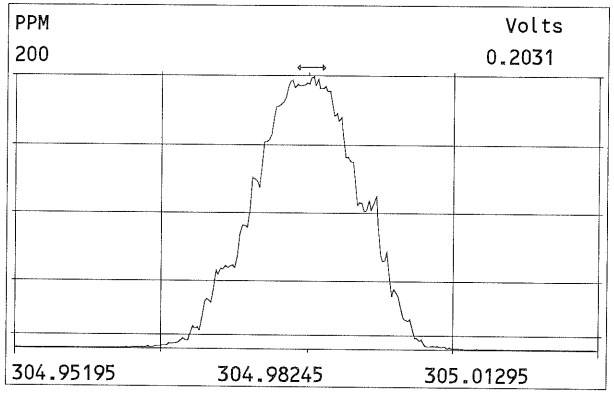
Experiment:1668PCB Function:3 Reference:PFK

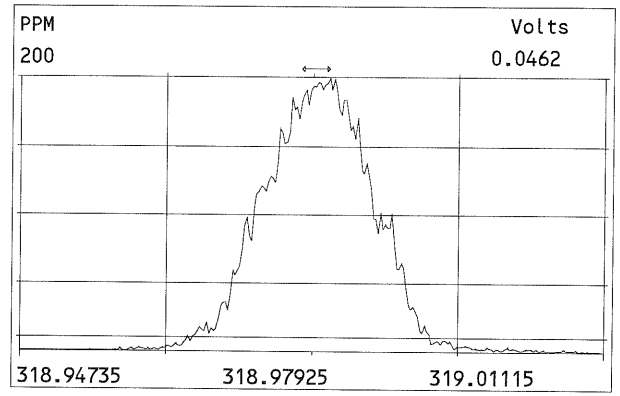


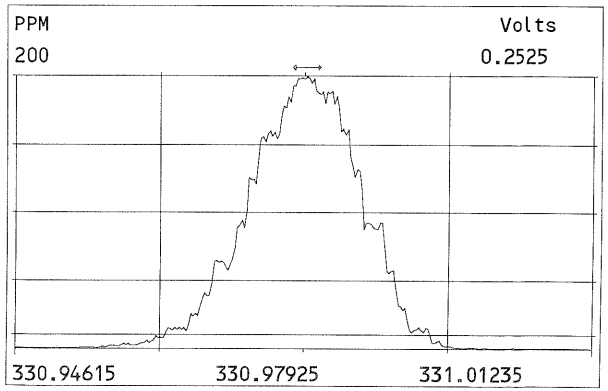


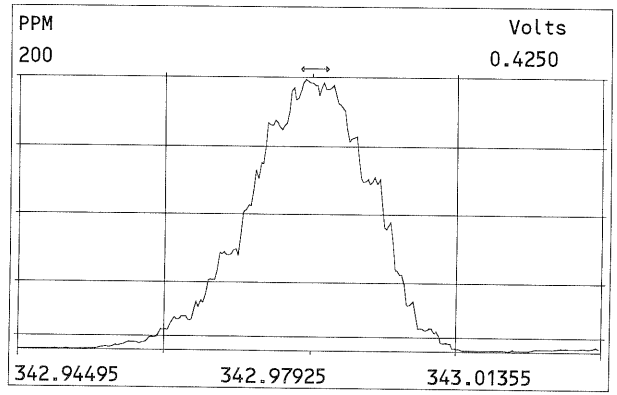






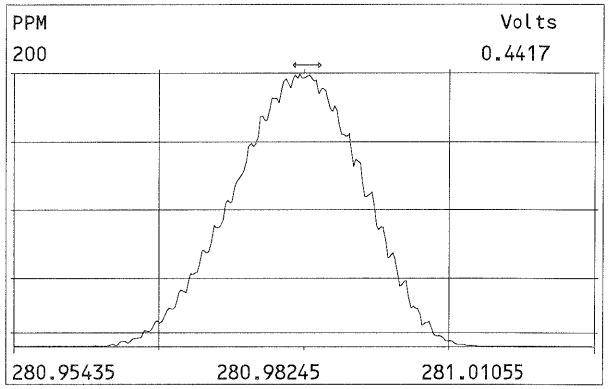


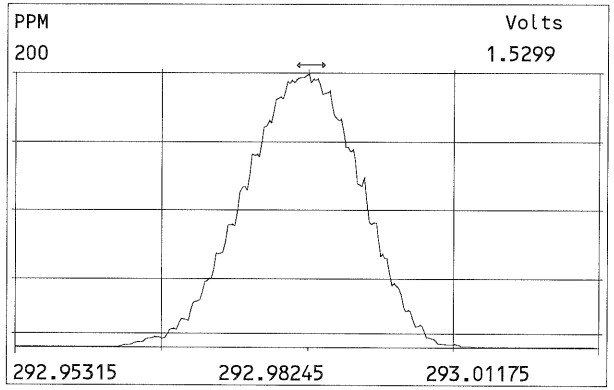


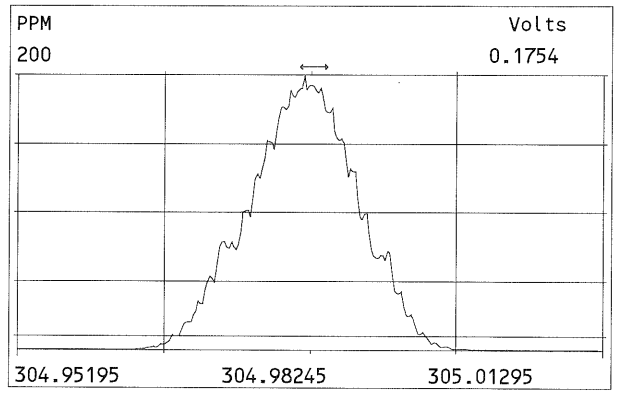


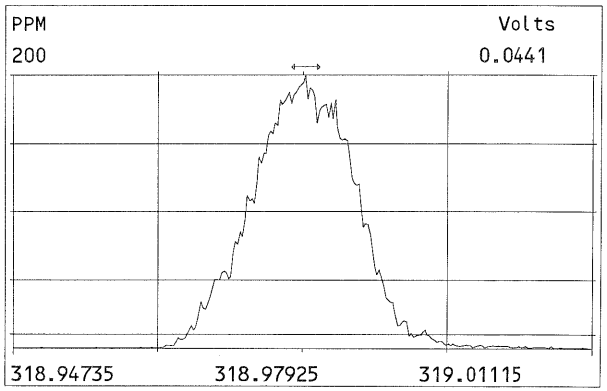
Peak Locate Examination:11-AUG-2016:11:23 File:11AUG16Z PFK01

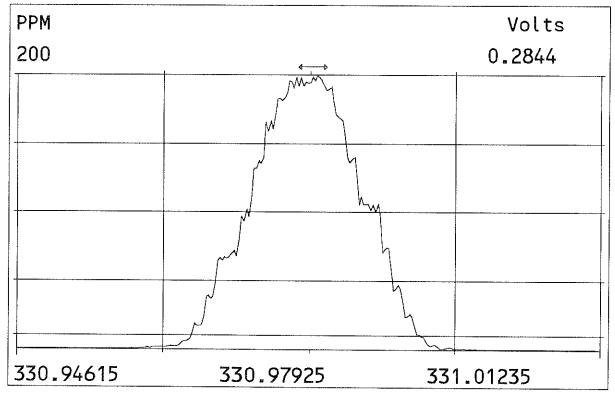
Experiment:1668PCB Function:4 Reference:PFK

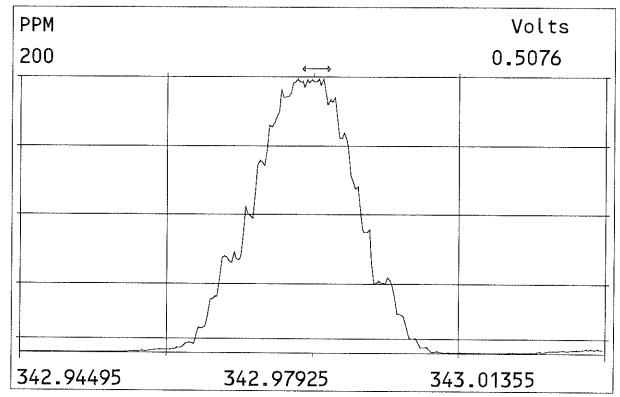


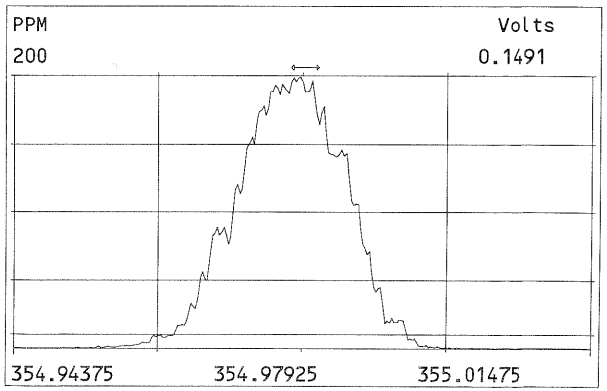


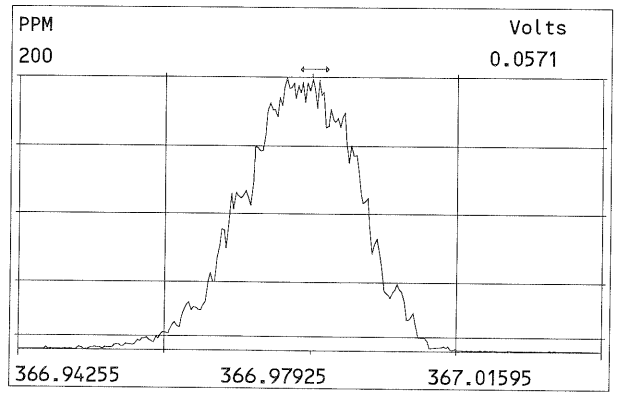


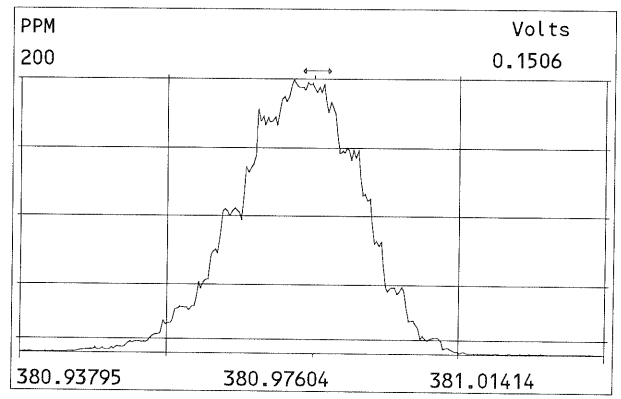






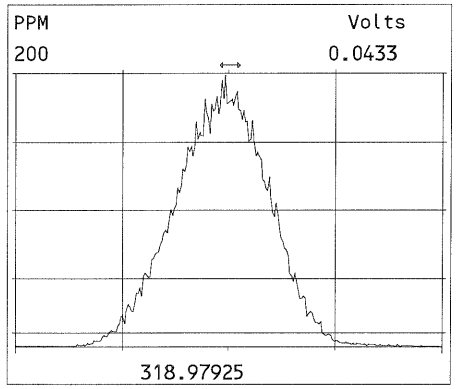


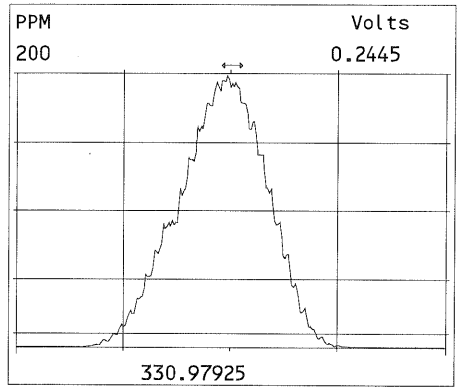


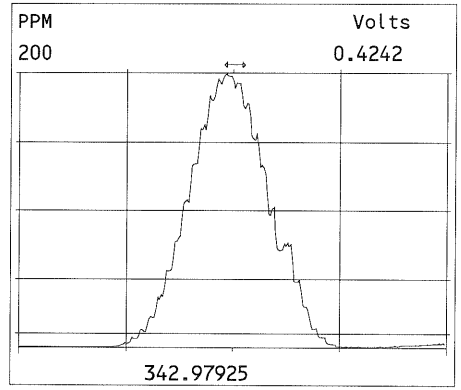


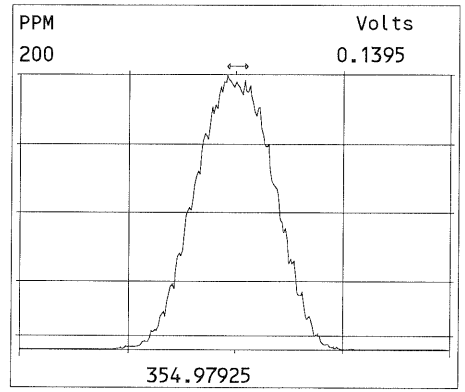
Peak Locate Examination:11-AUG-2016:11:24 File:11AUG16Z PFK01

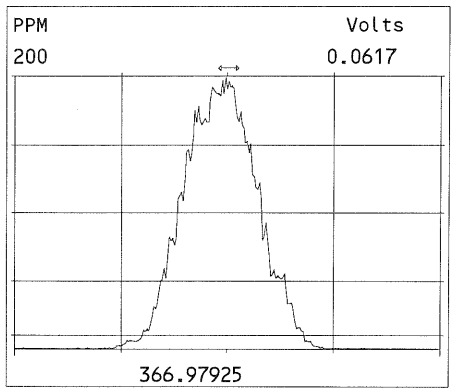
Experiment:1668PCB Function:5 Reference:PFK

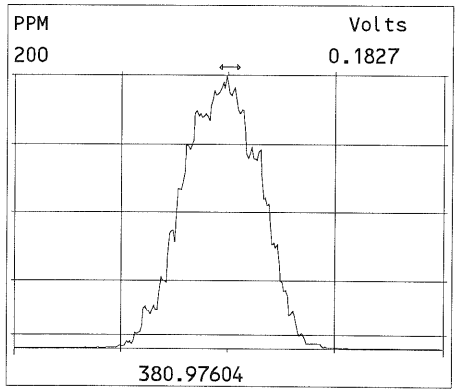


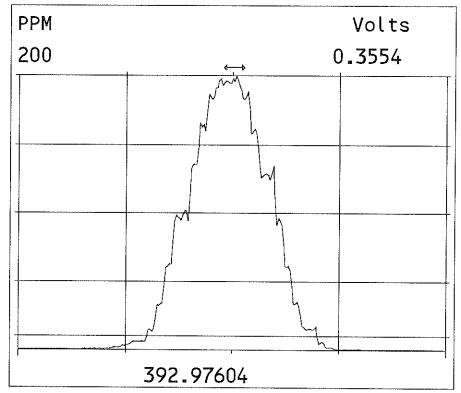


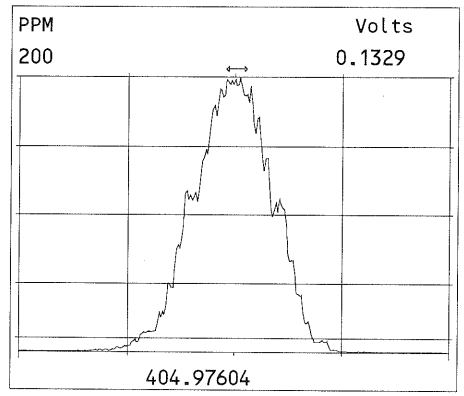


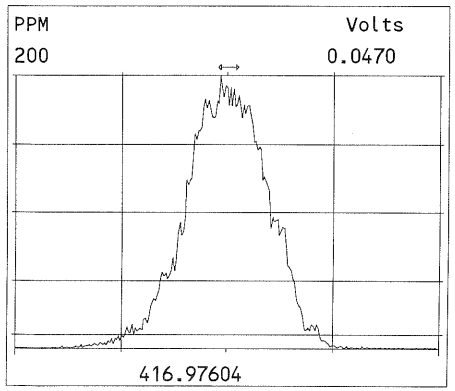


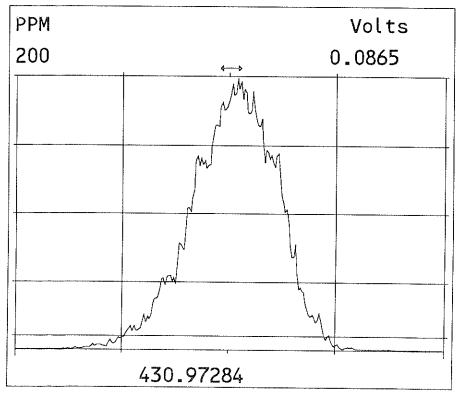


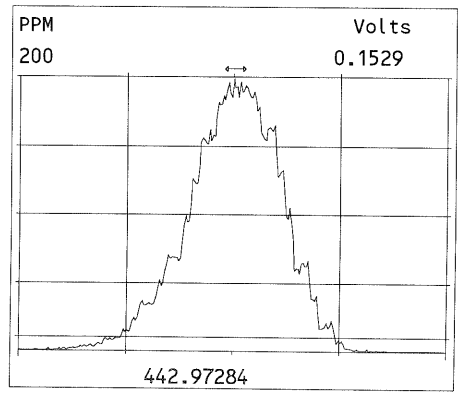






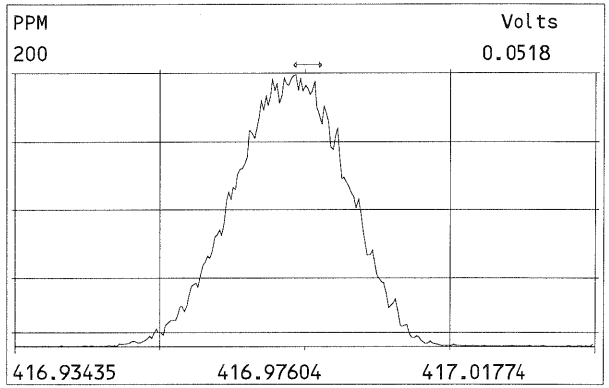


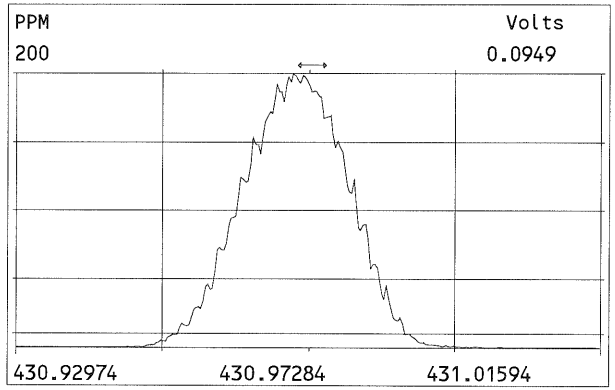


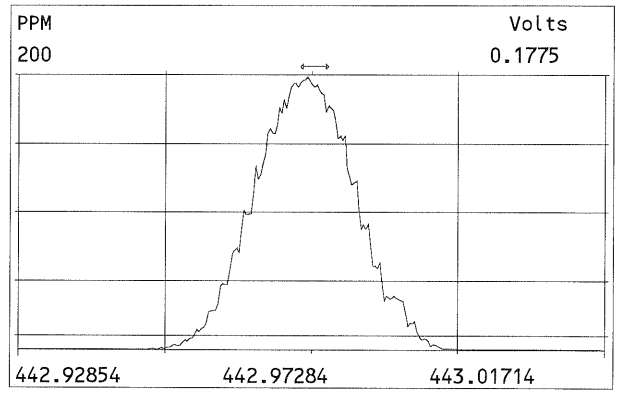


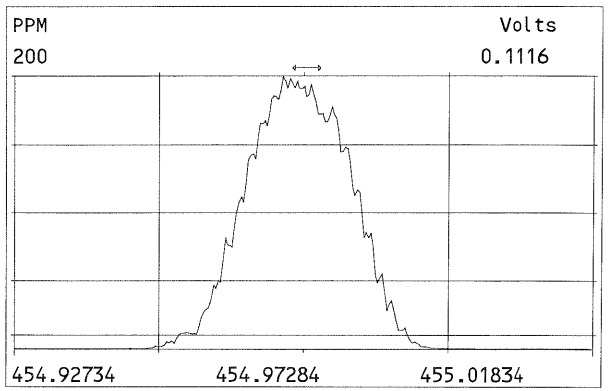
Peak Locate Examination:11-AUG-2016:11:25 File:11AUG16Z PFK01

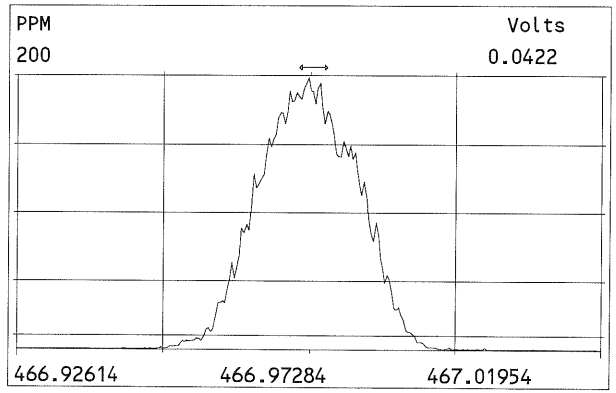
Experiment:1668PCB Function:6 Reference:PFK

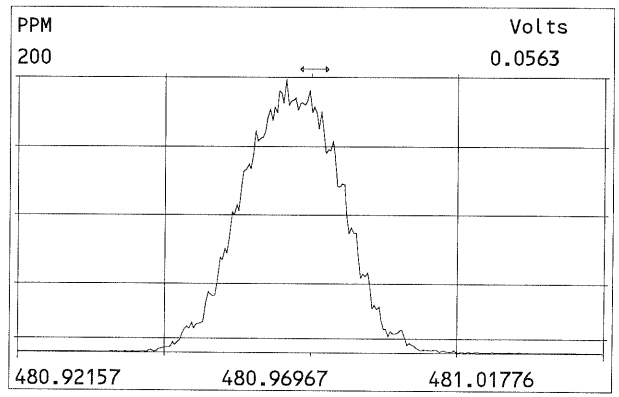


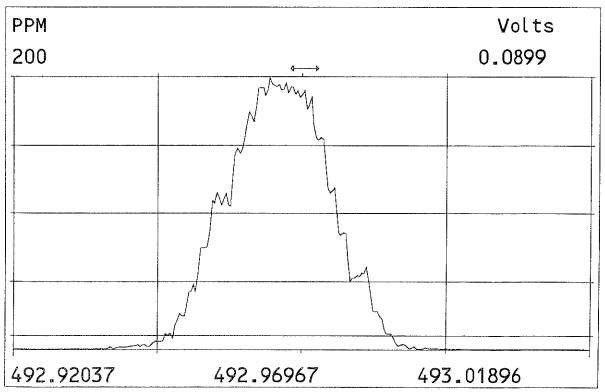


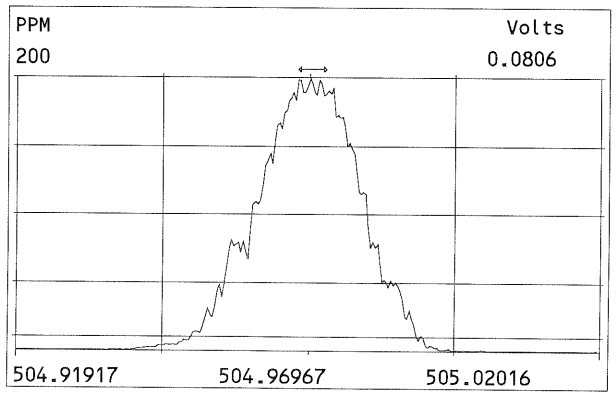


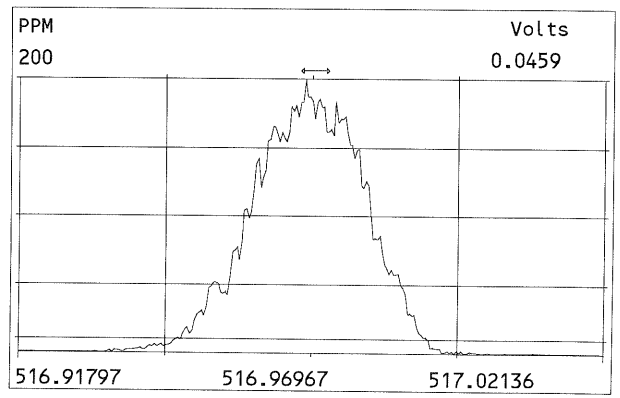




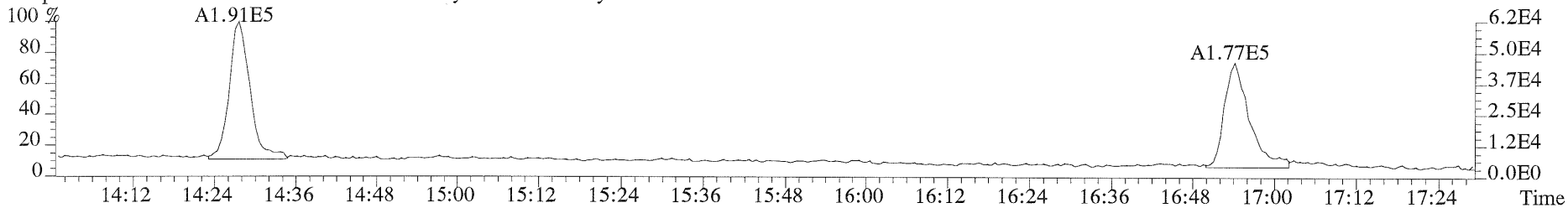








File:11AUG16Z #1-900 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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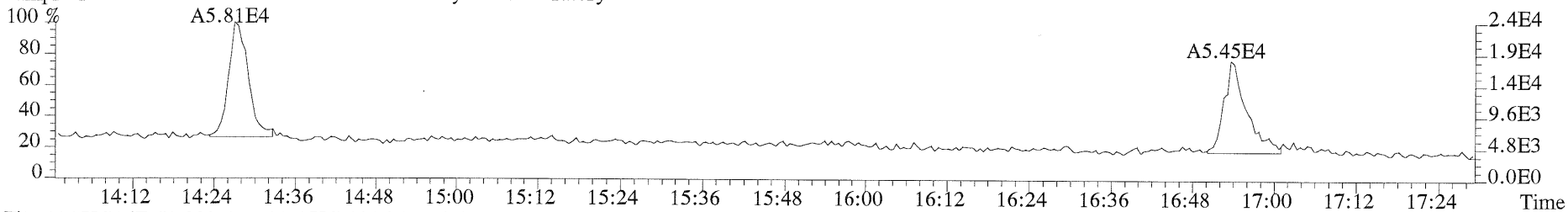
190.0363 S:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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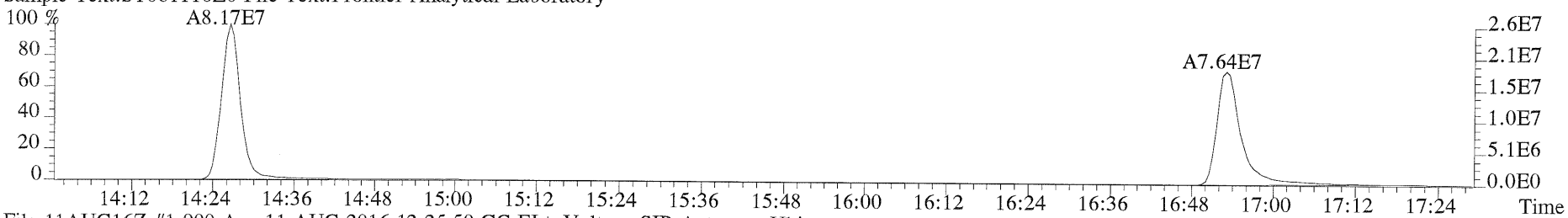
200.0795 S:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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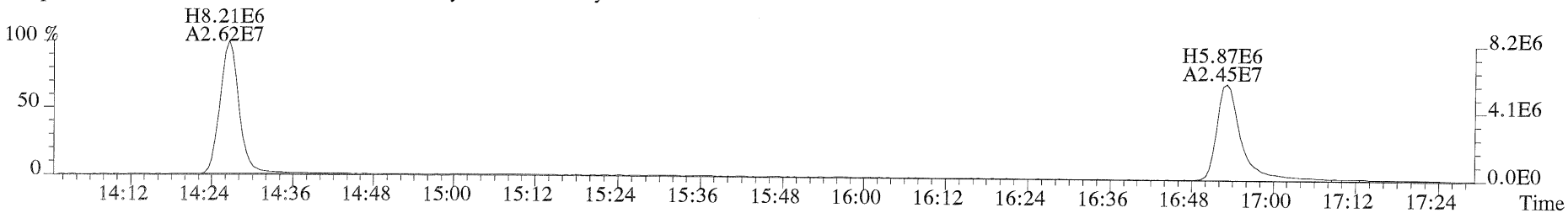
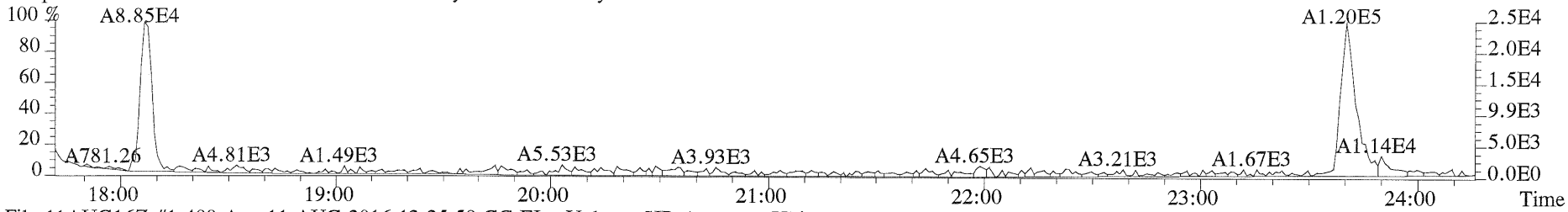
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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



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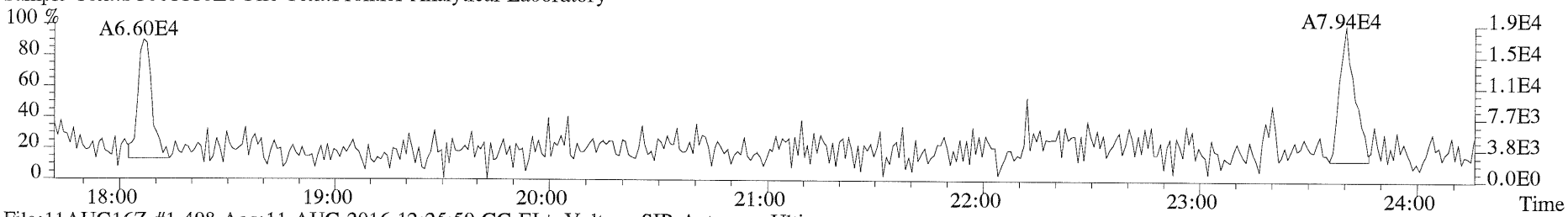
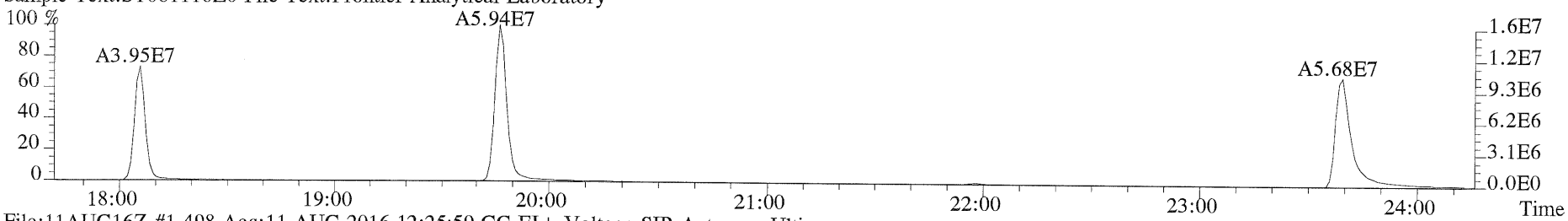
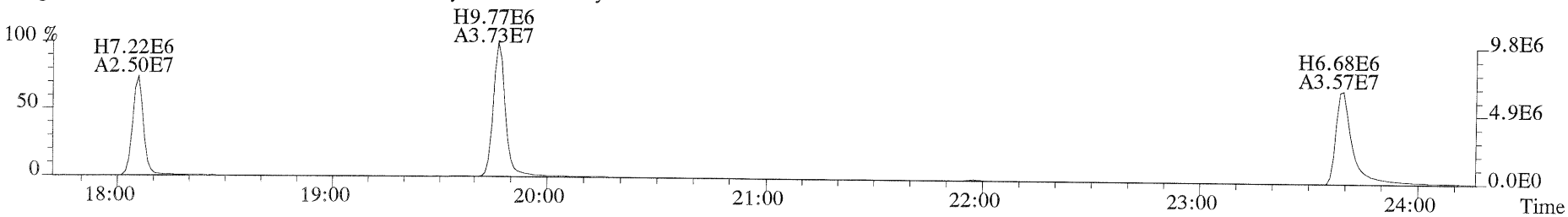
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



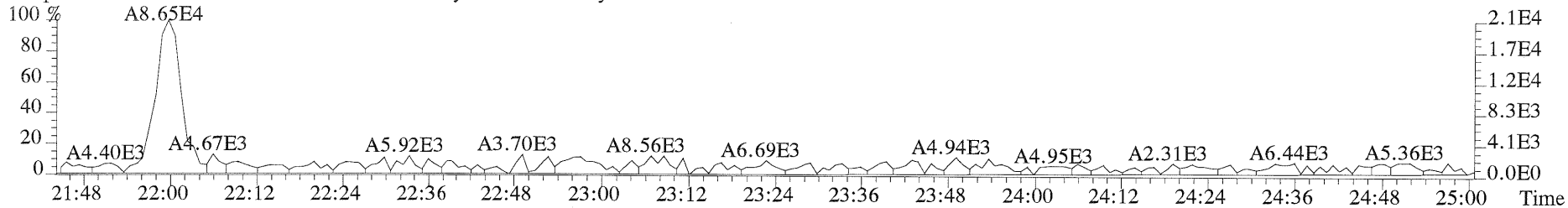
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



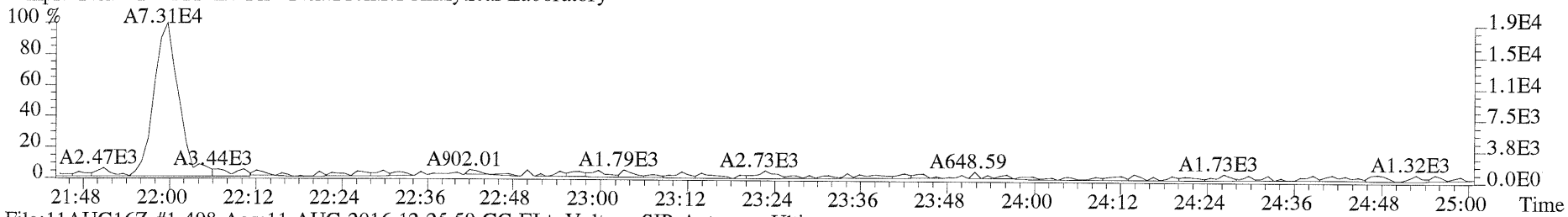
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



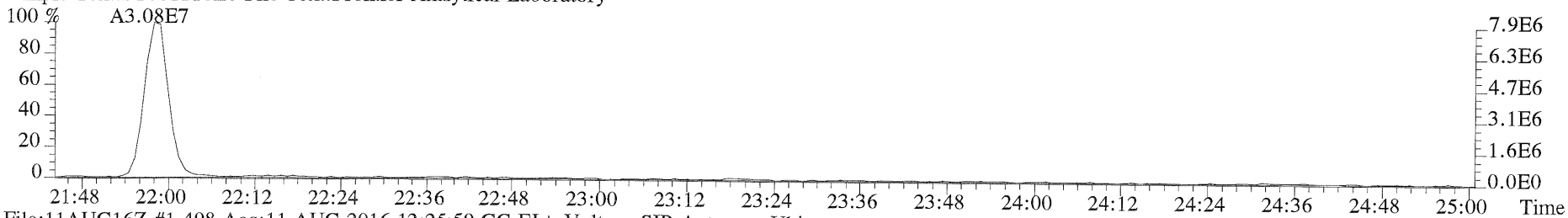
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



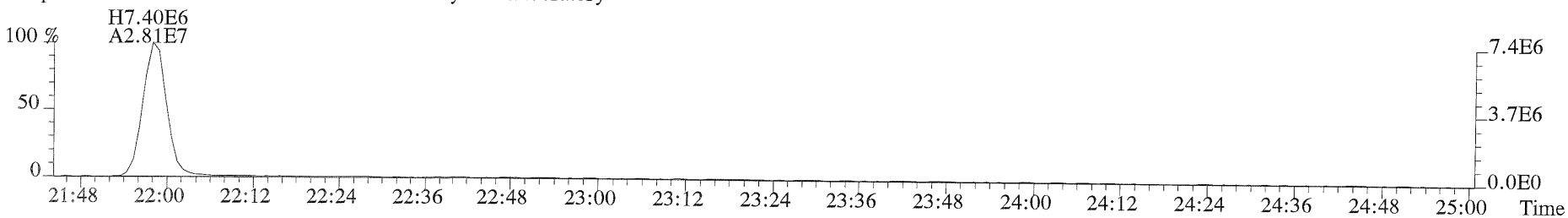
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



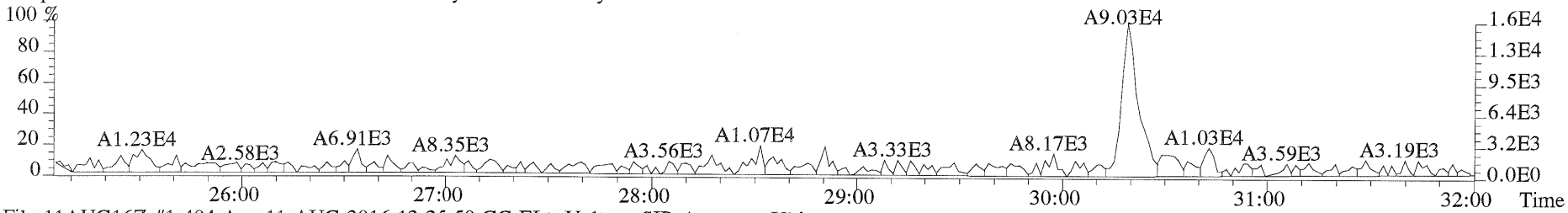
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



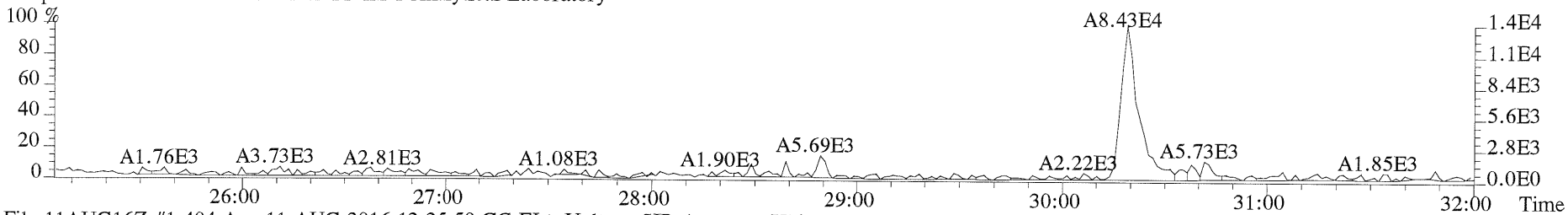
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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



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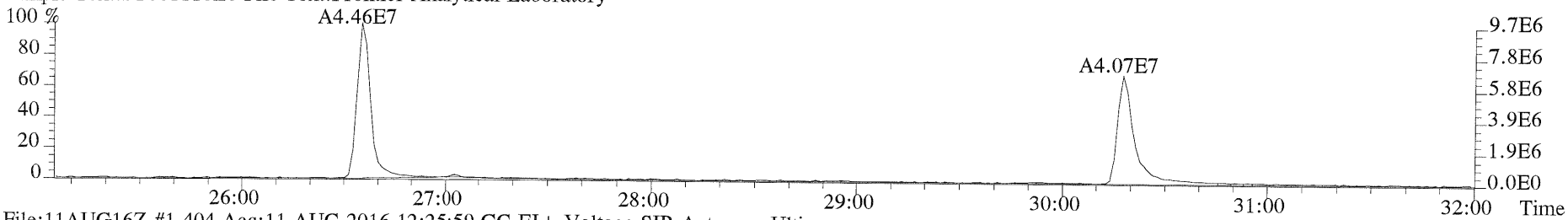
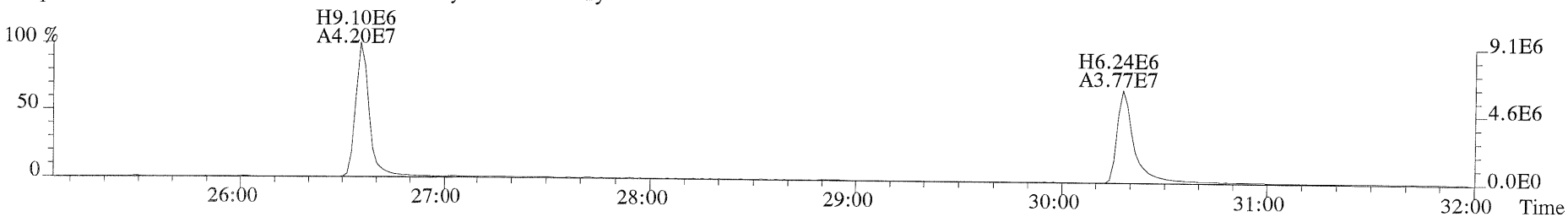
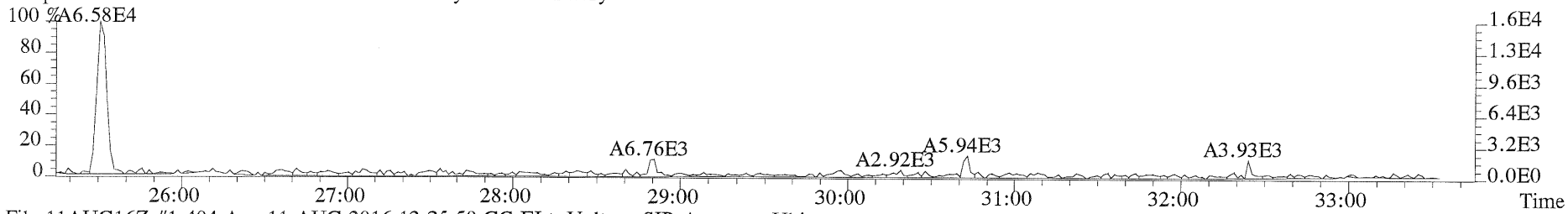
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



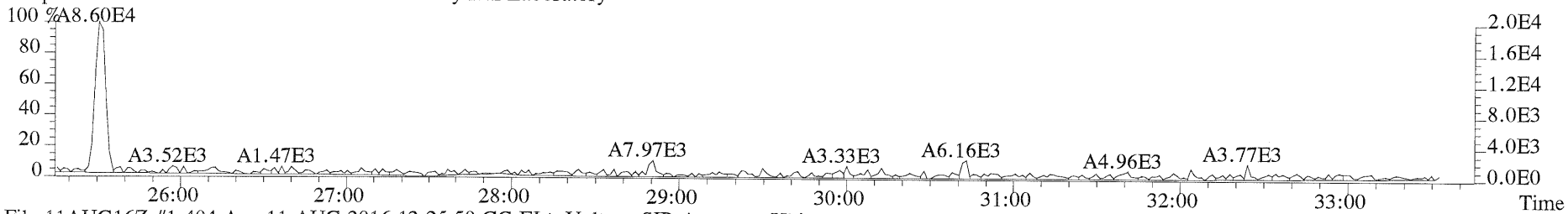
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



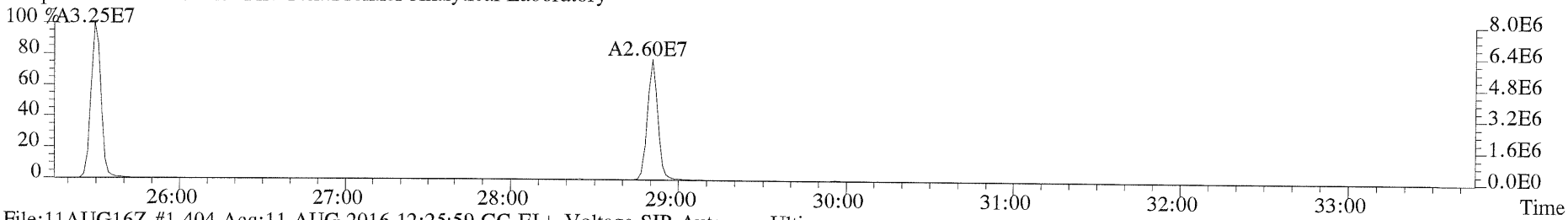
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



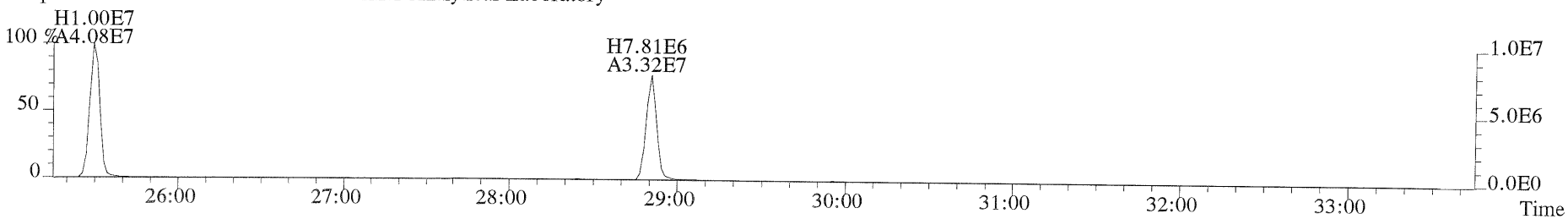
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



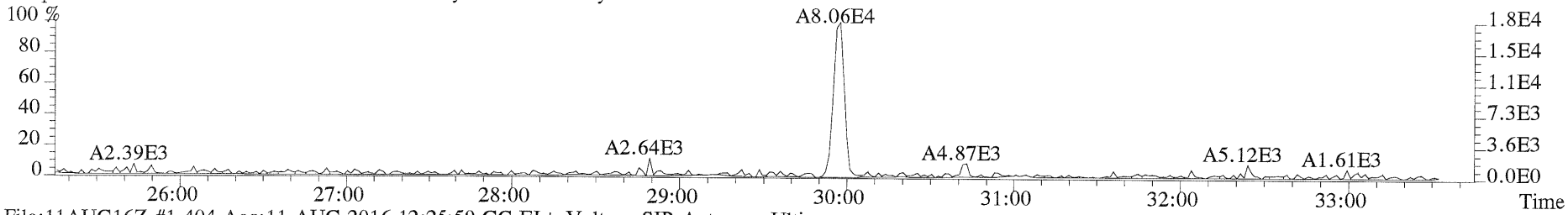
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



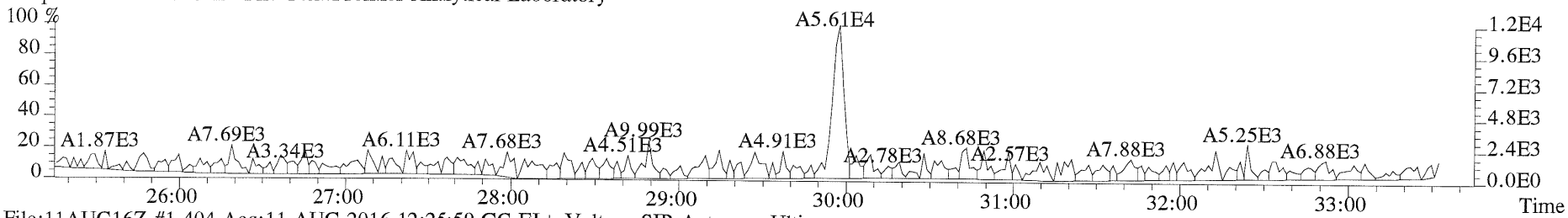
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



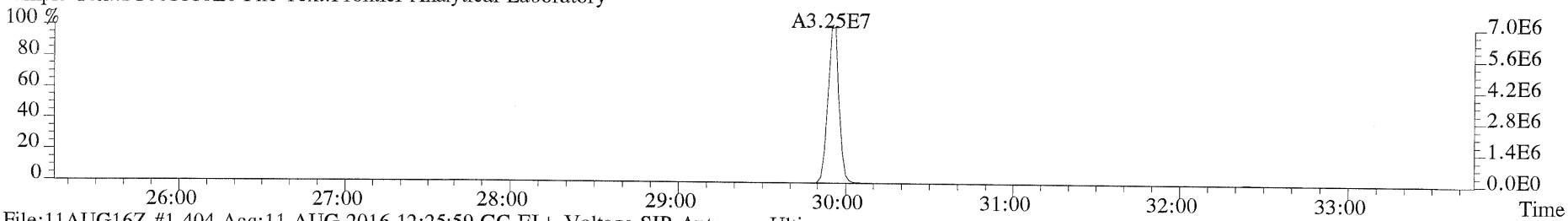
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



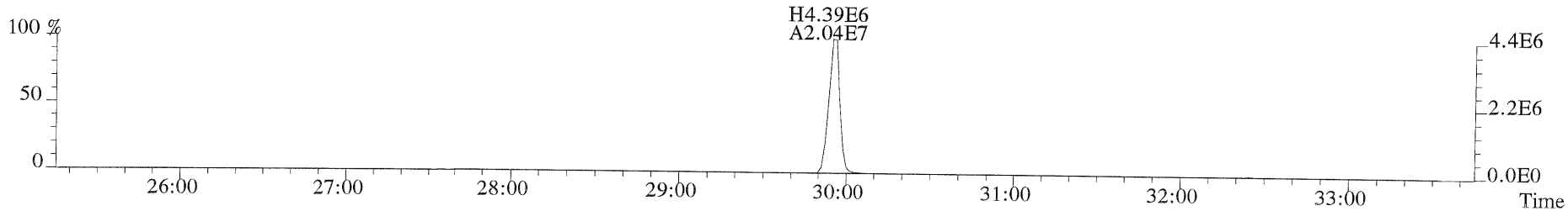
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



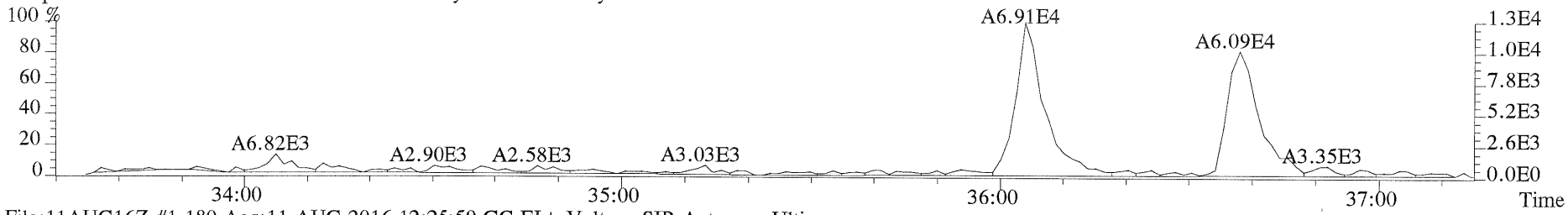
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



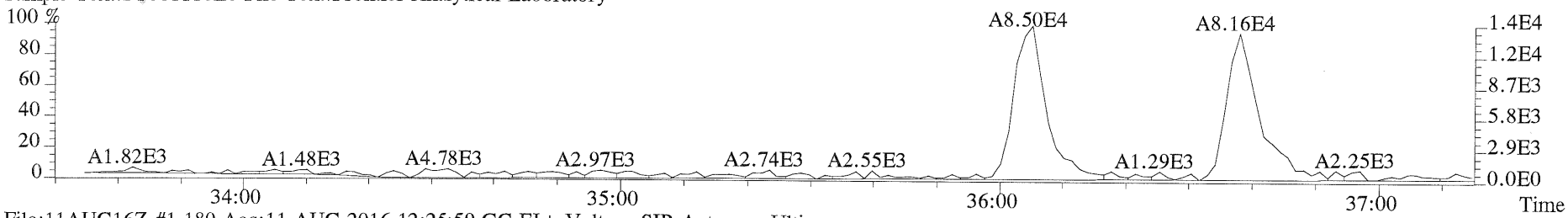
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



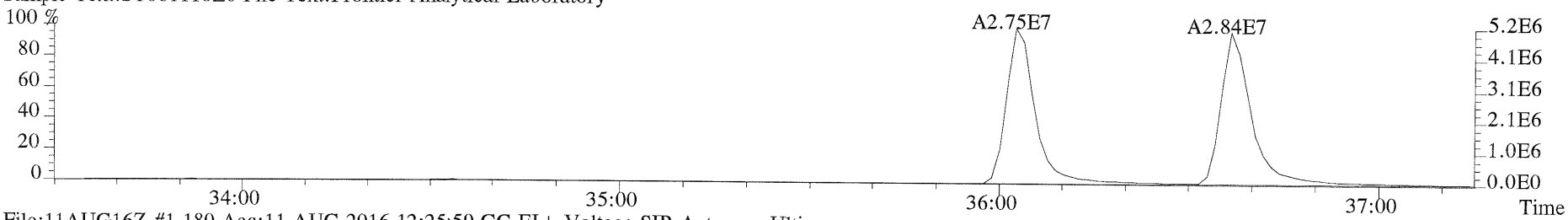
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



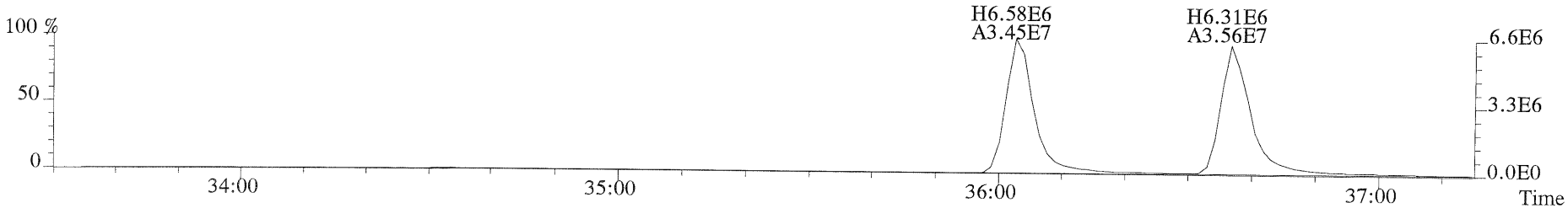
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



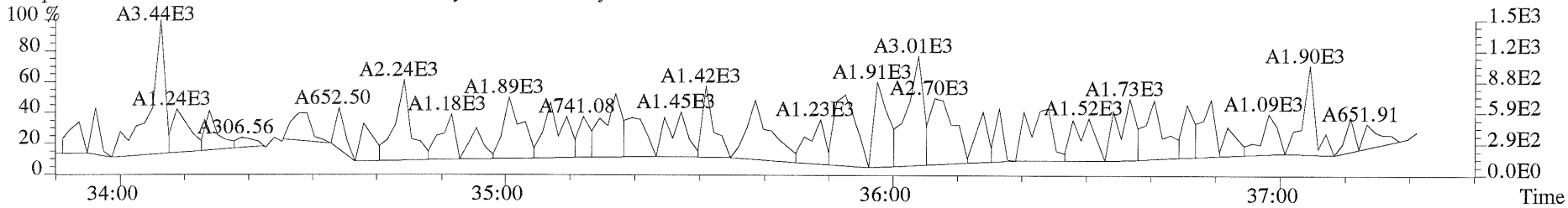
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



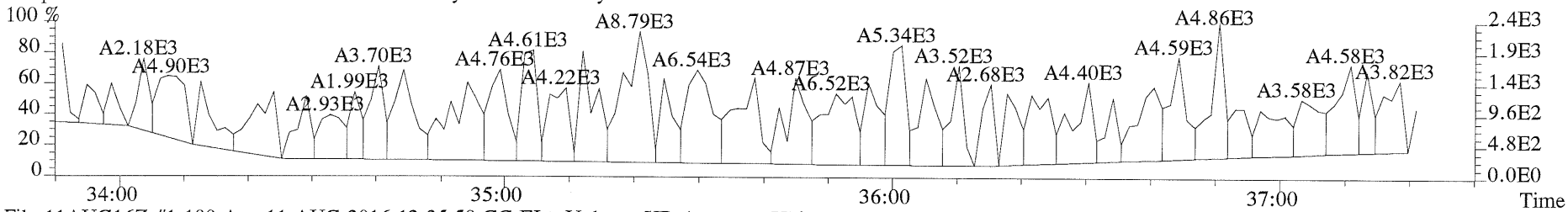
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



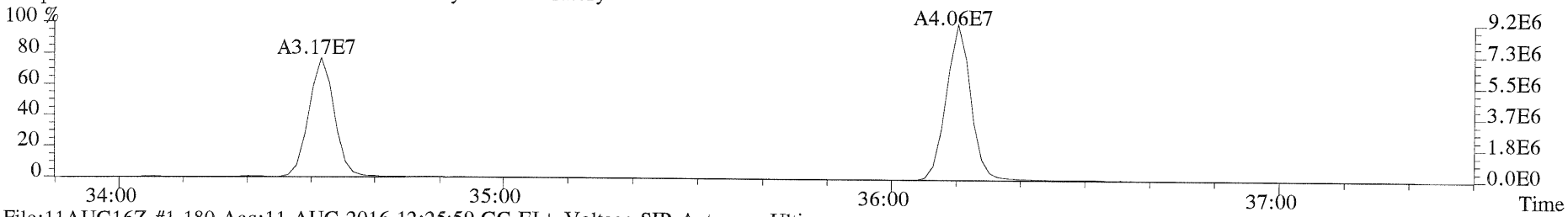
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



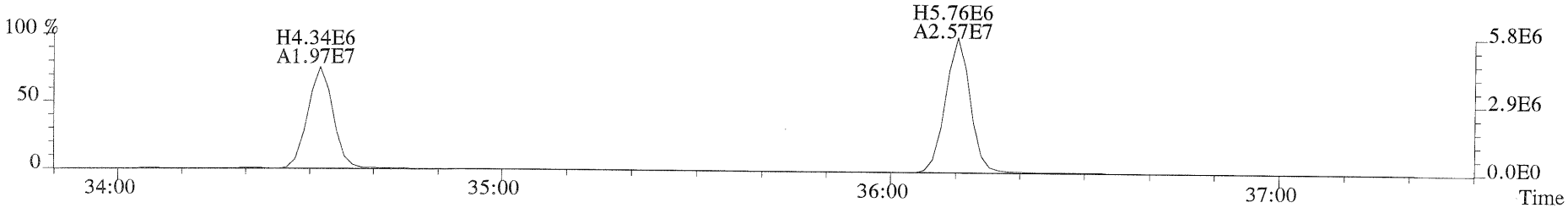
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



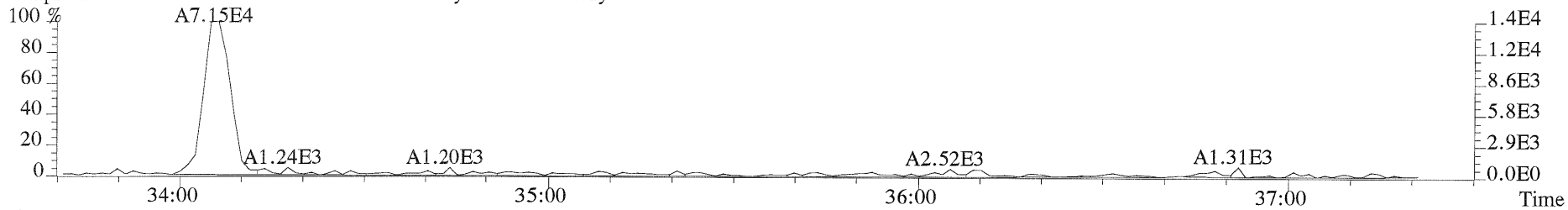
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



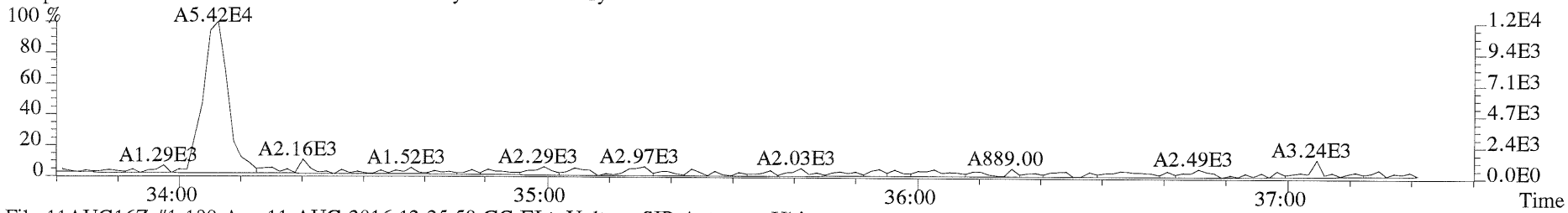
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



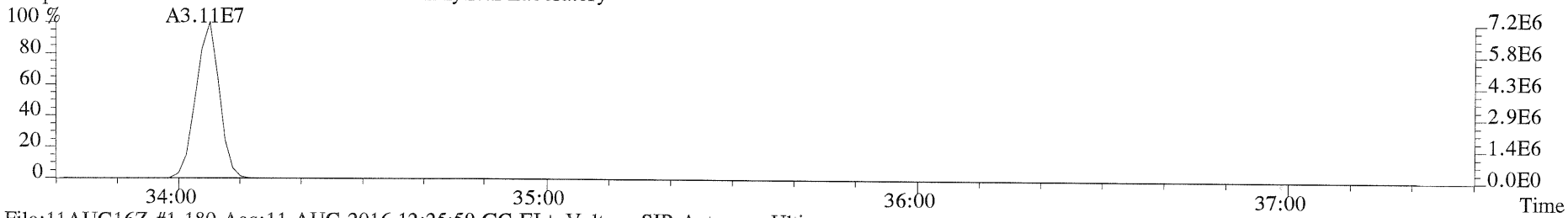
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



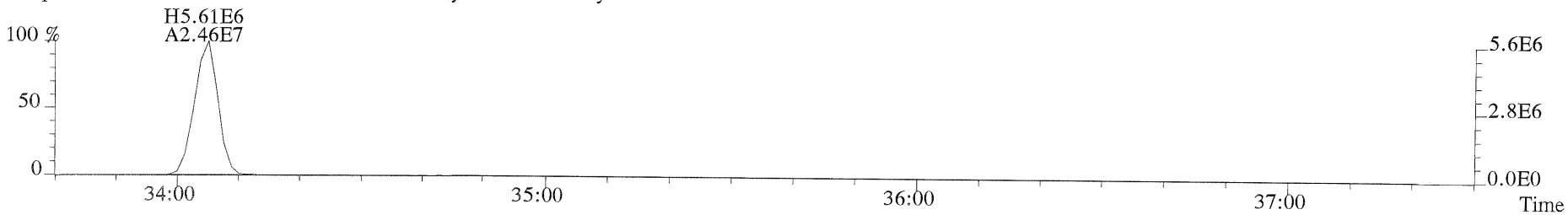
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



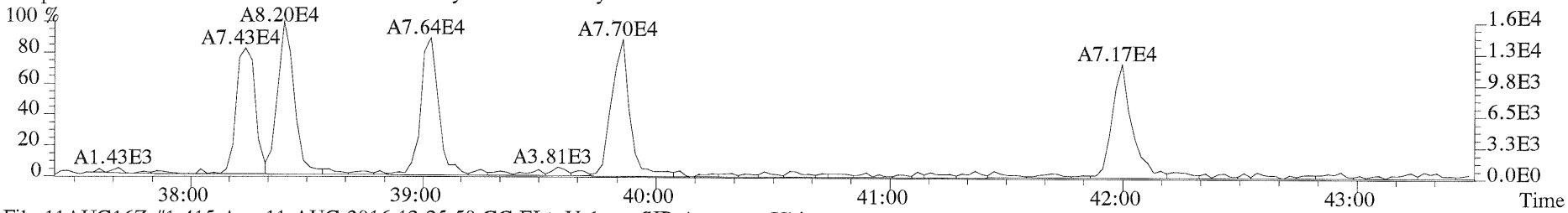
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



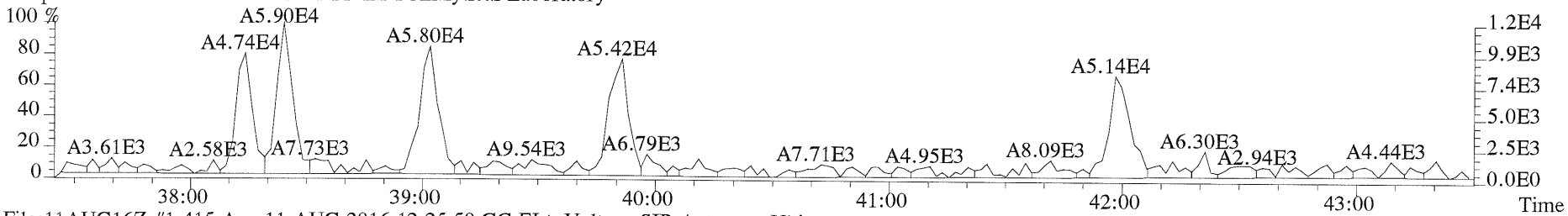
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



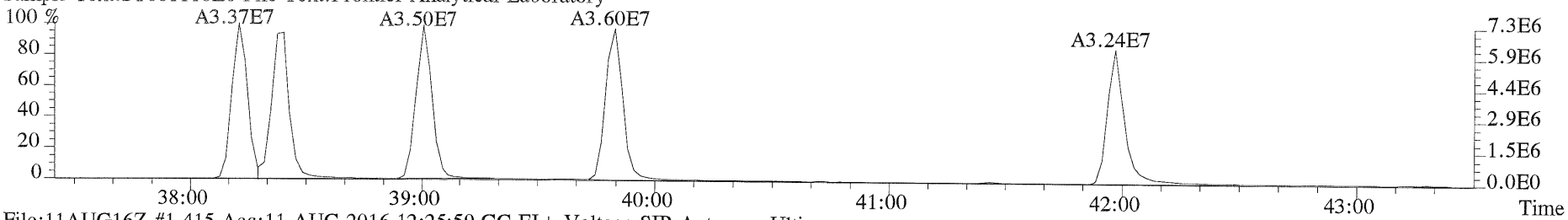
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



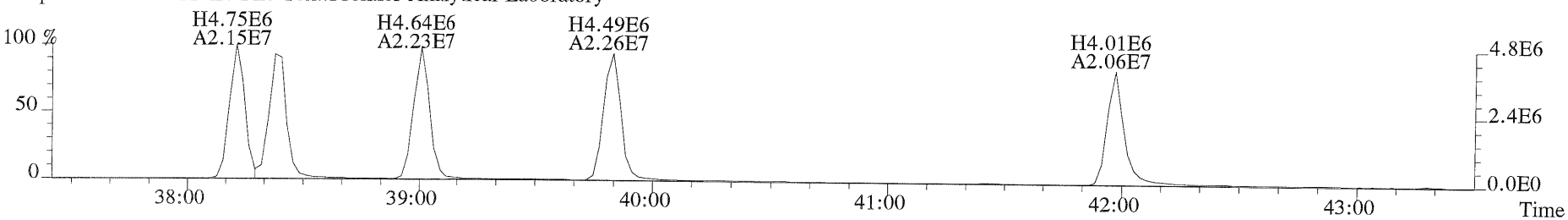
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



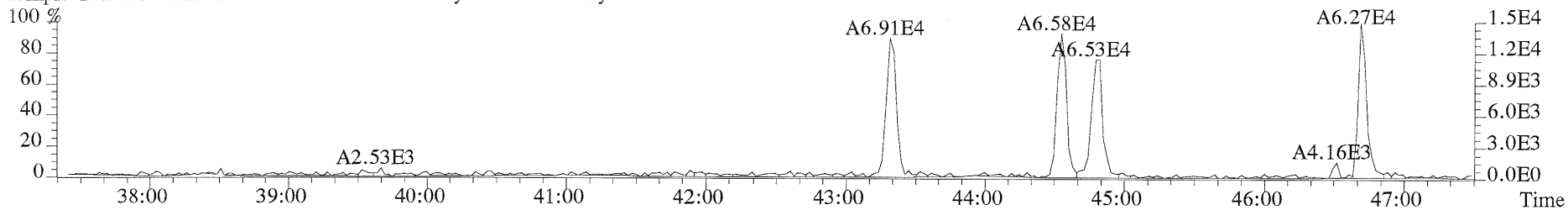
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



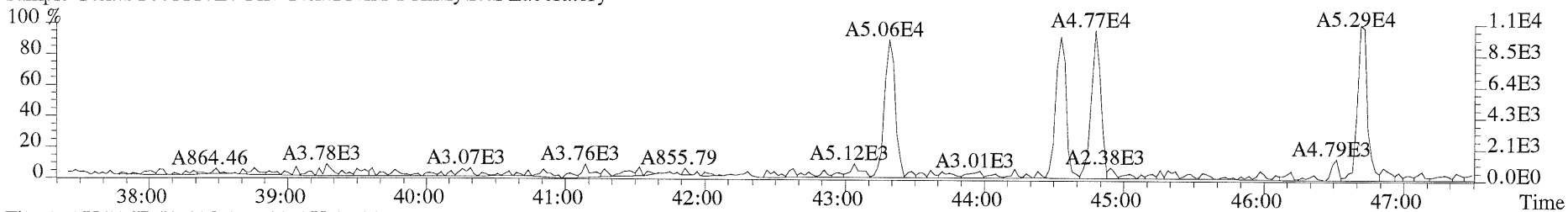
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



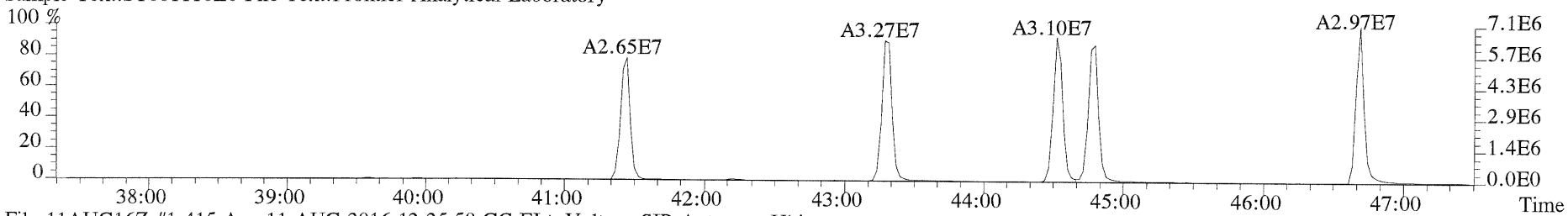
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



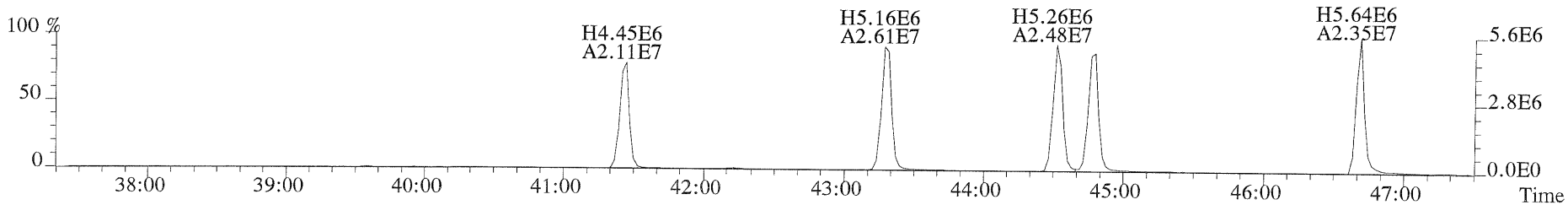
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



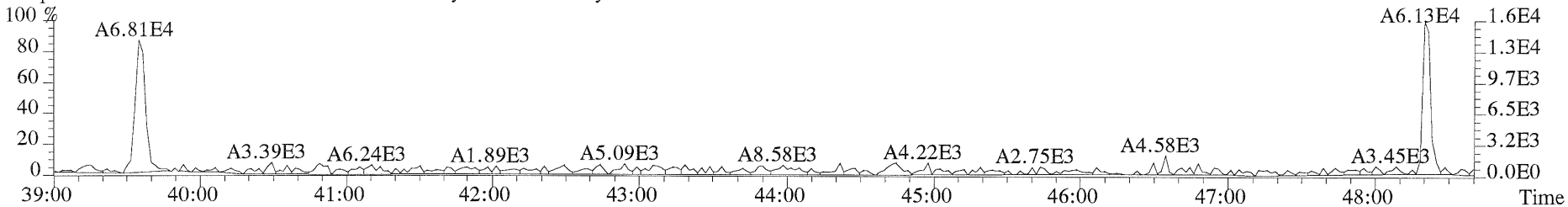
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



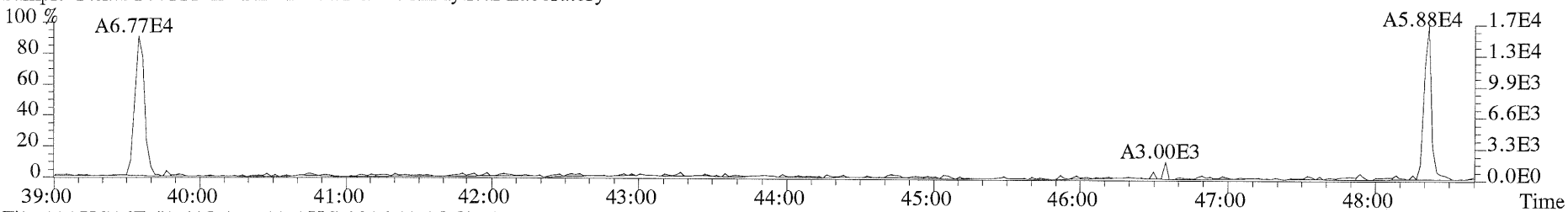
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



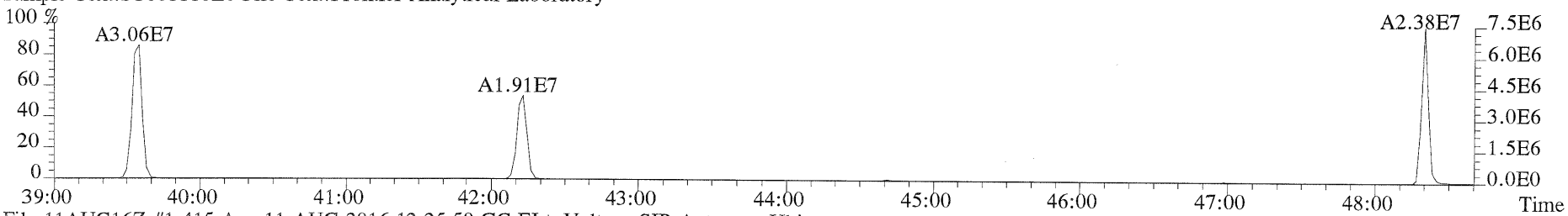
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



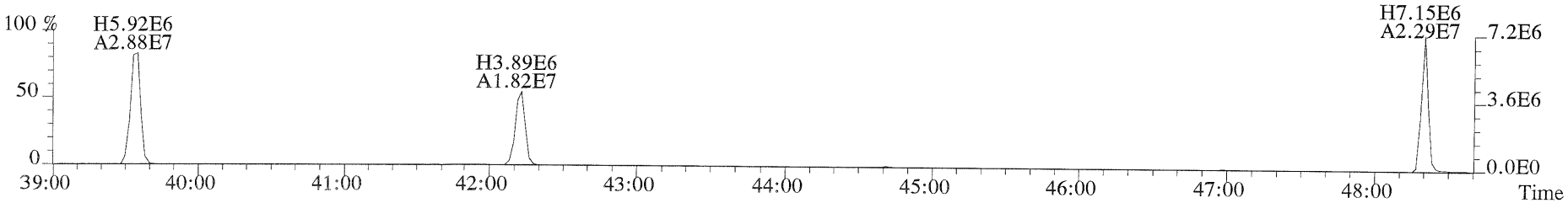
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



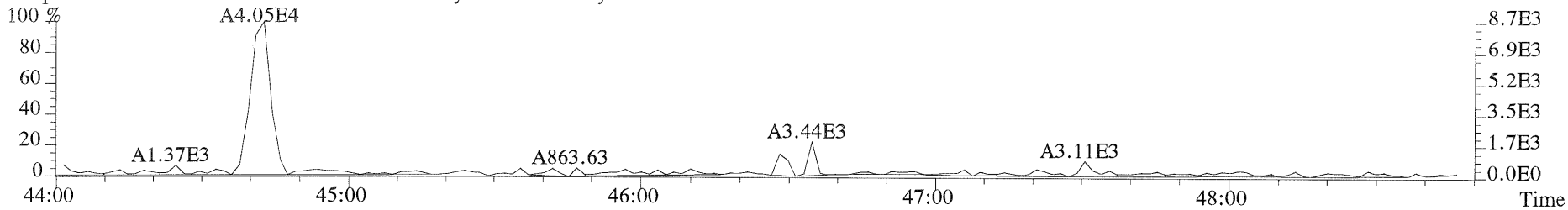
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



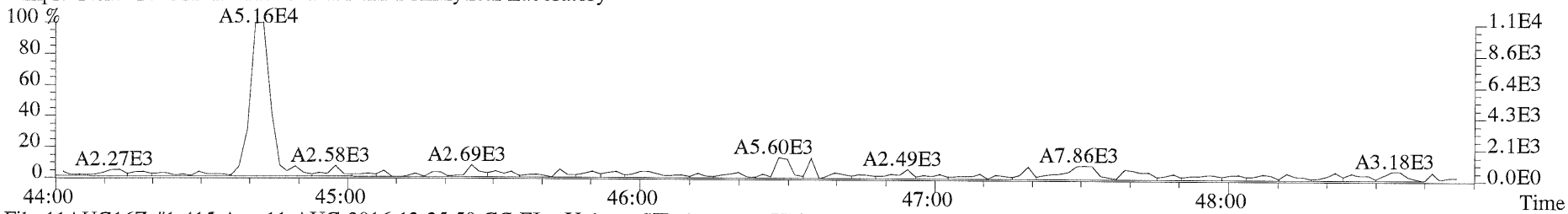
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



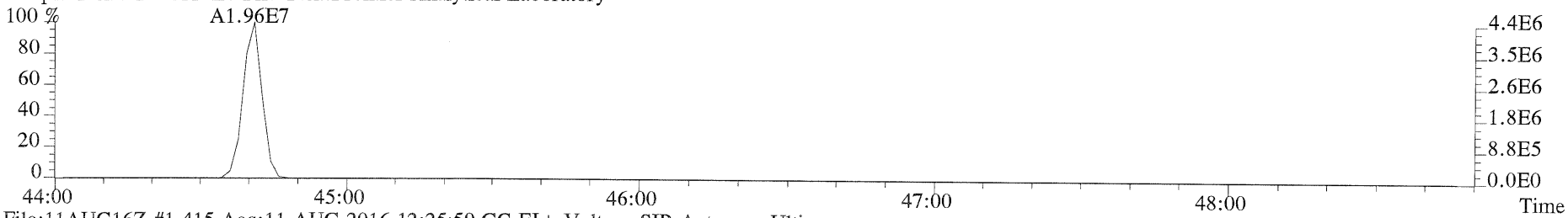
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



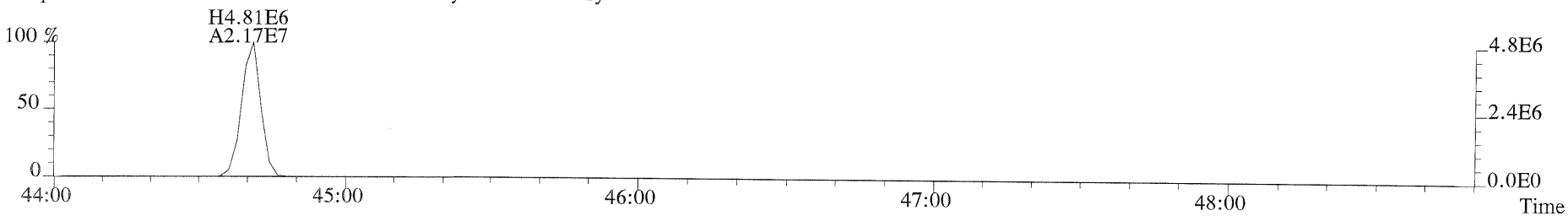
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



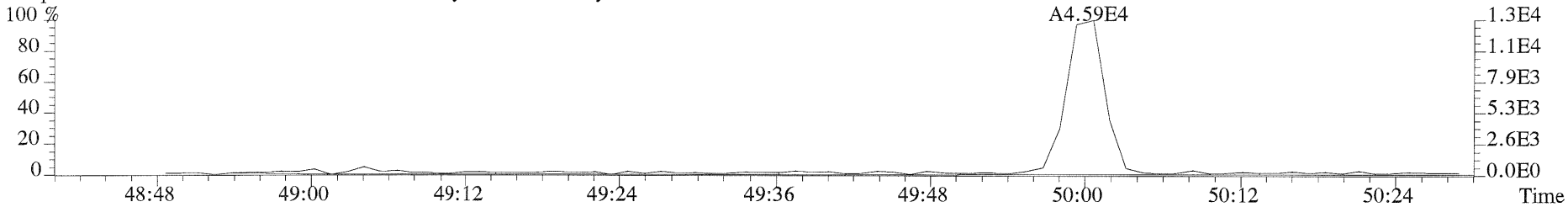
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



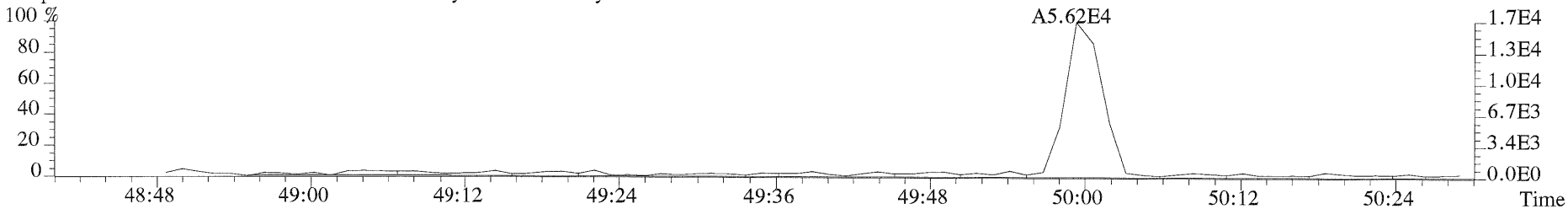
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



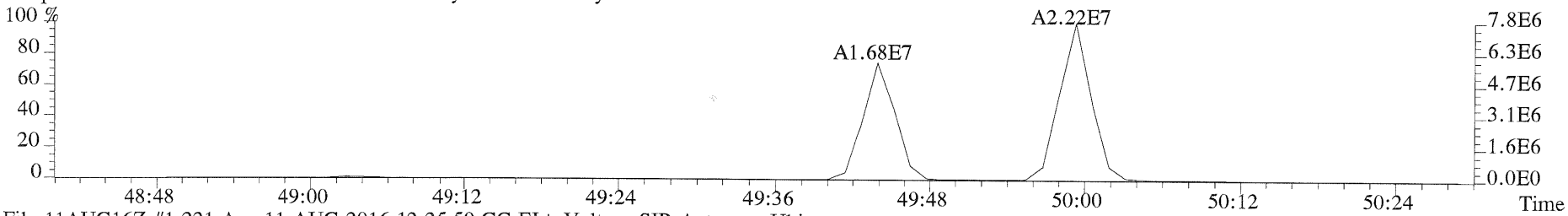
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



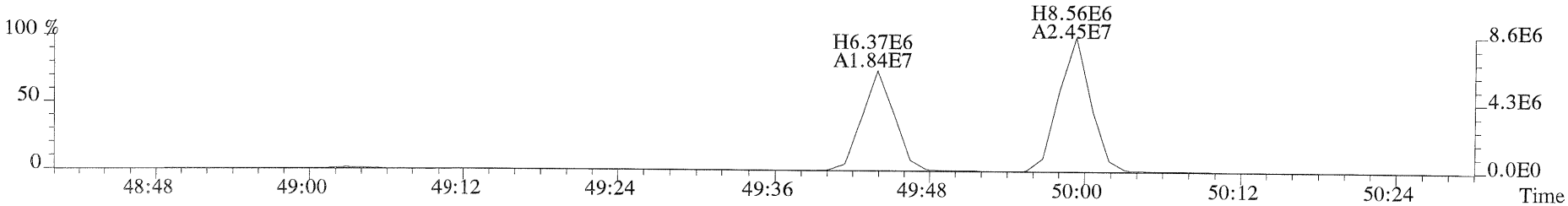
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



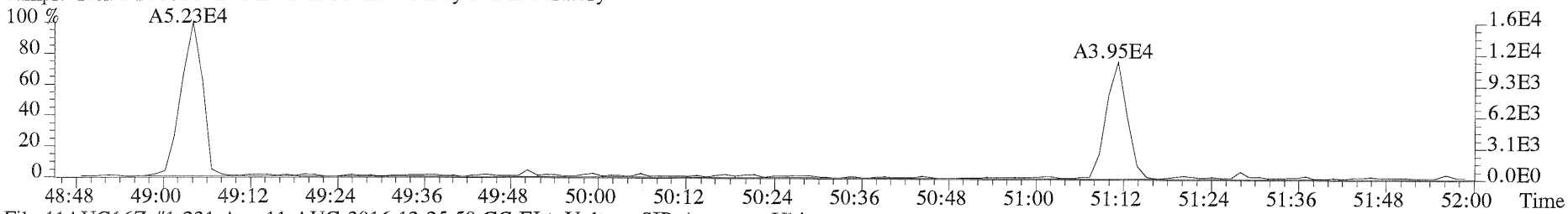
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



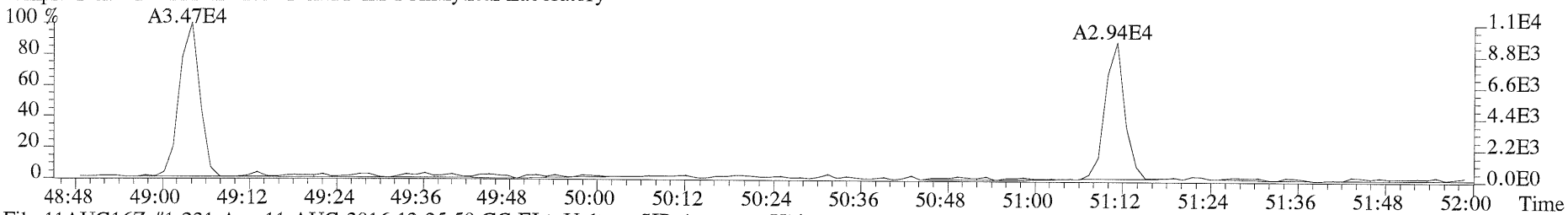
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



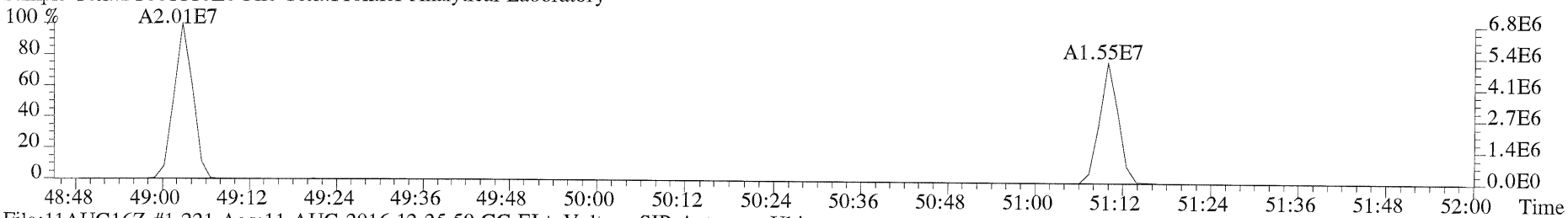
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



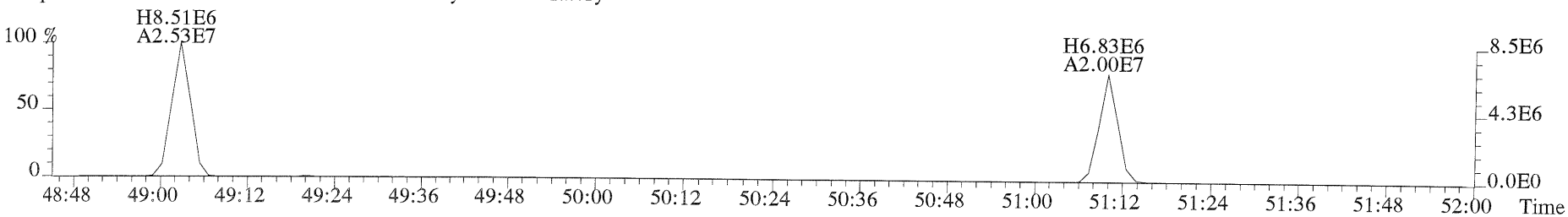
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



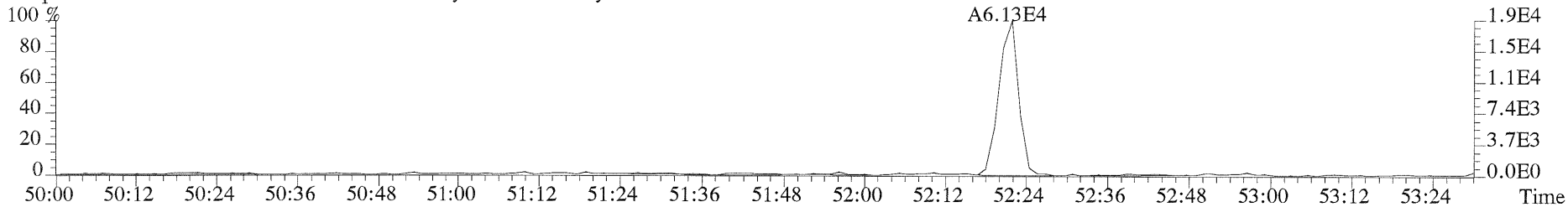
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



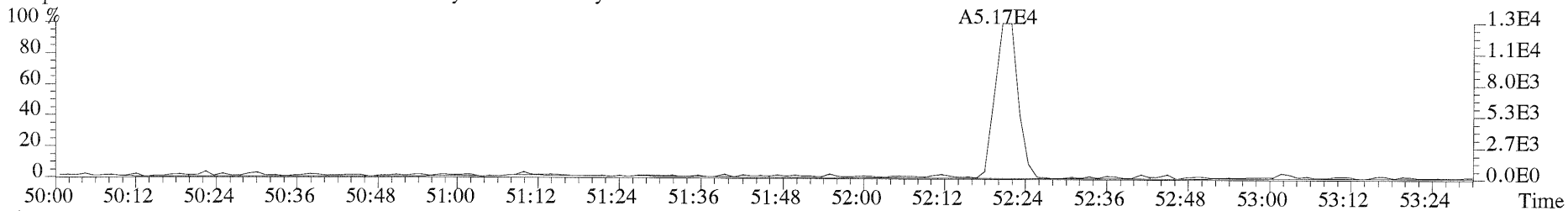
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



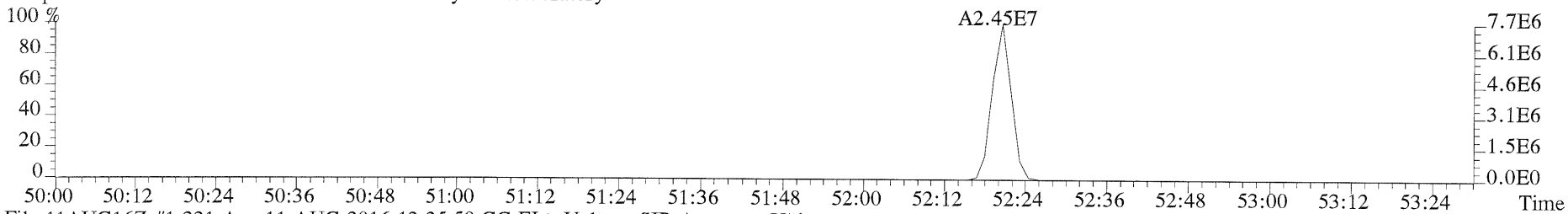
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



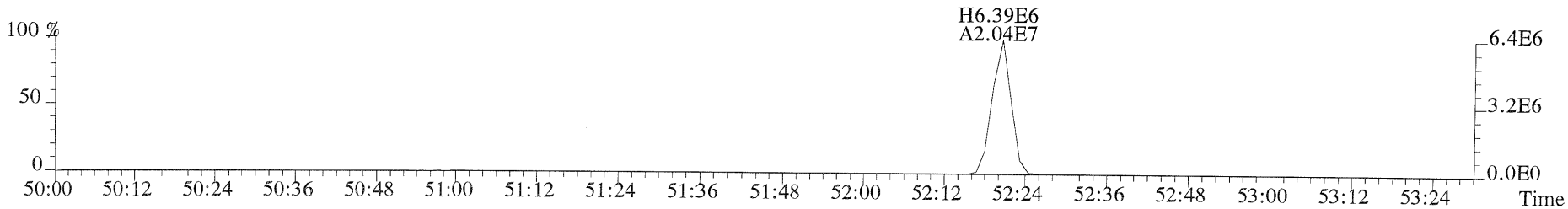
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



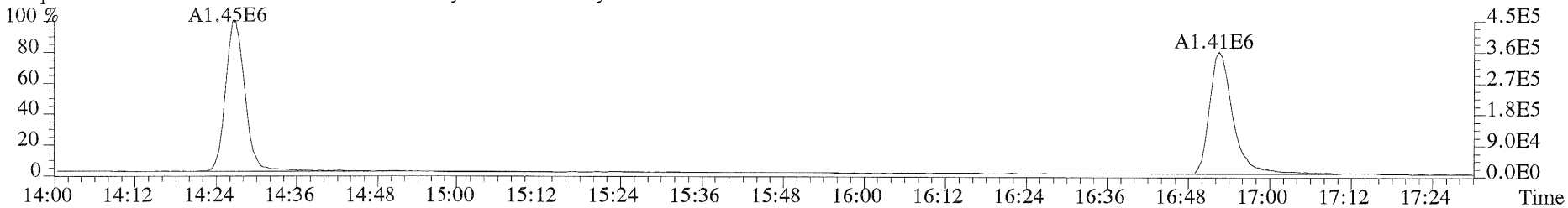
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



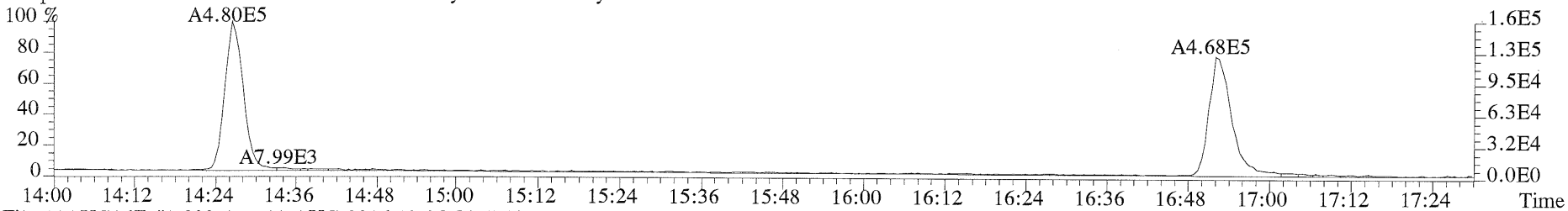
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



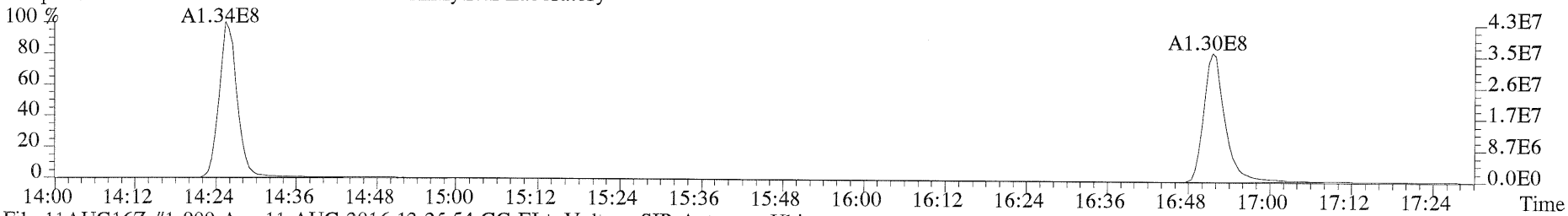
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



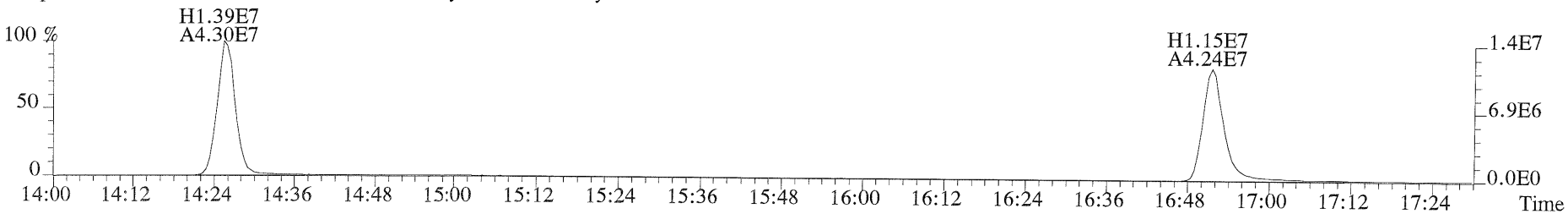
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



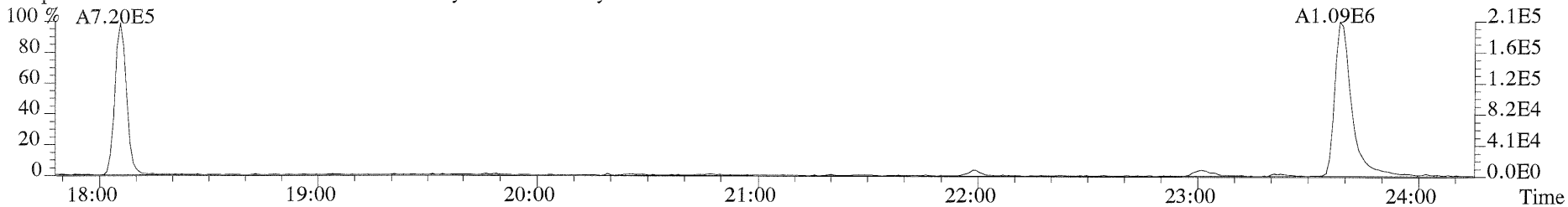
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



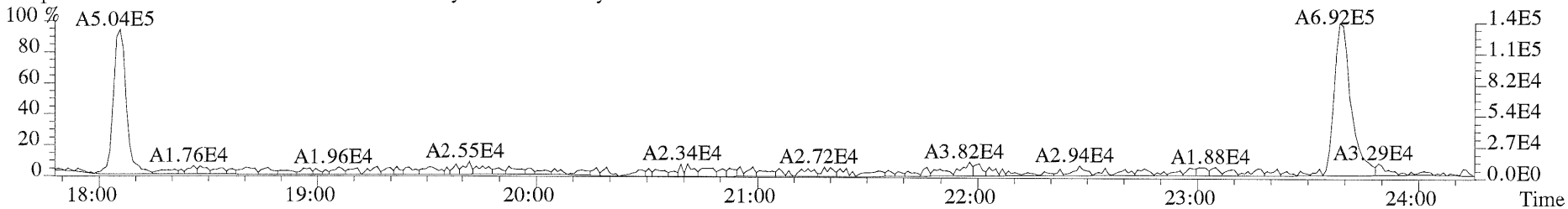
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



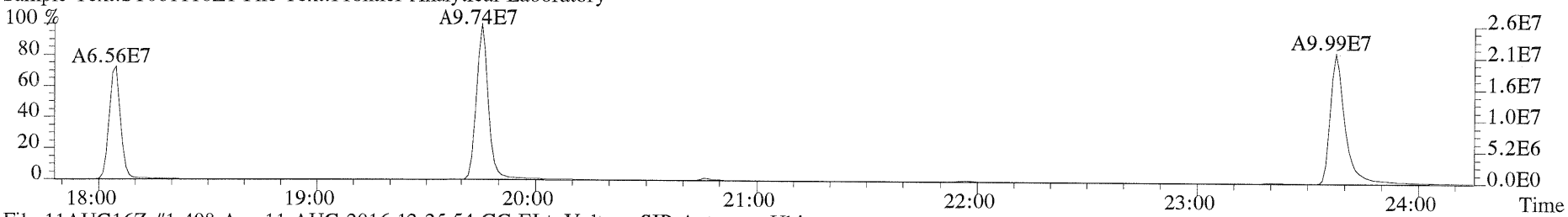
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



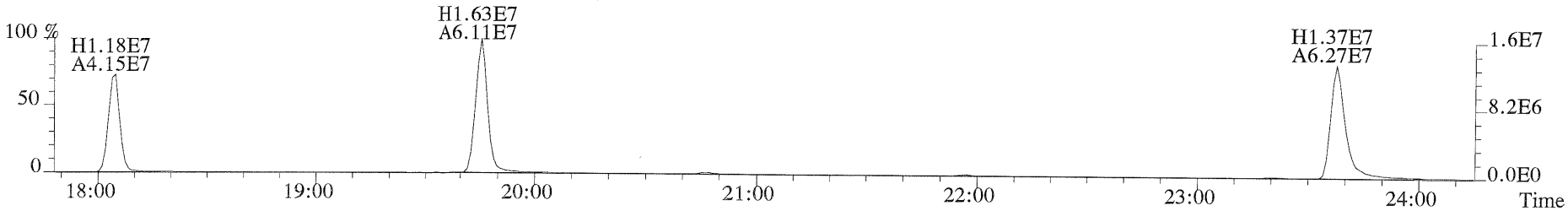
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



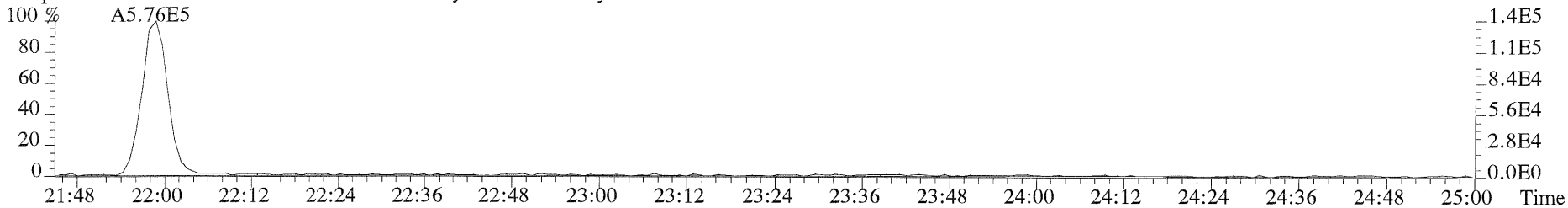
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



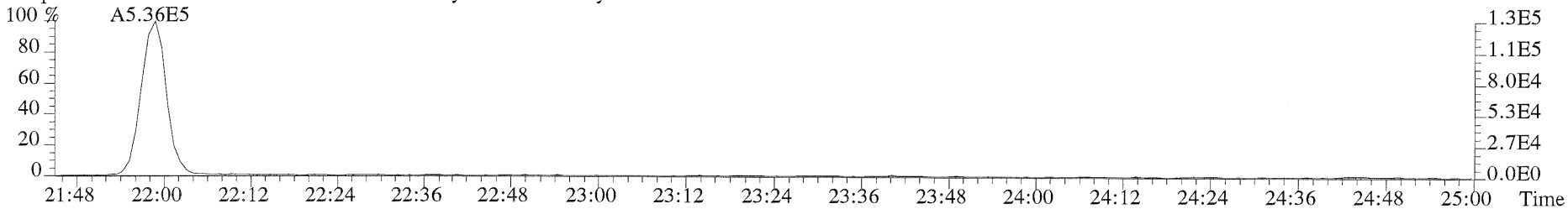
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



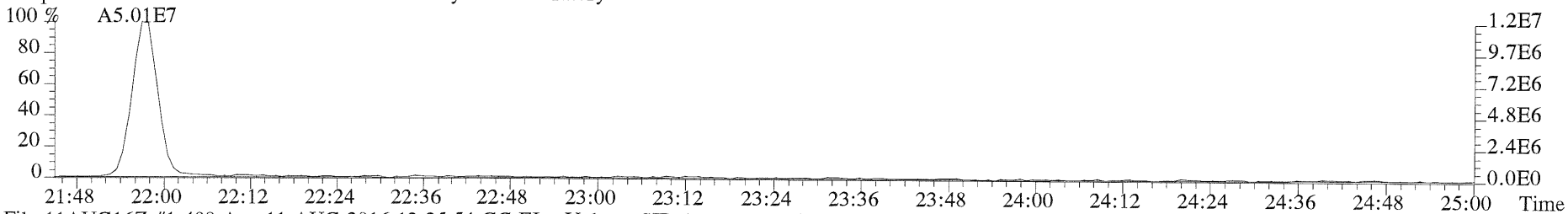
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



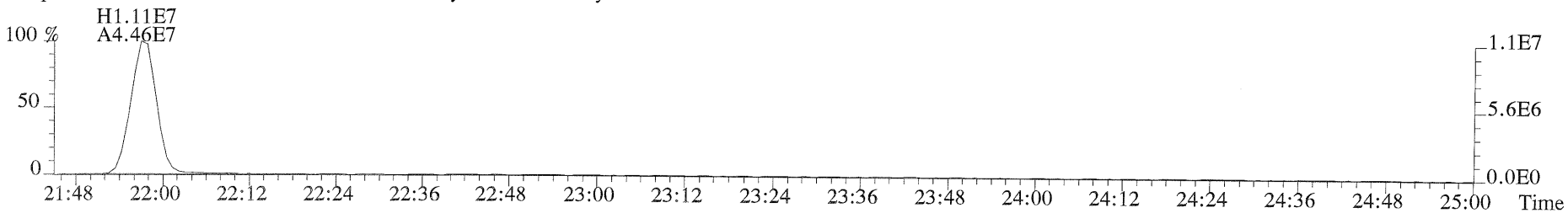
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



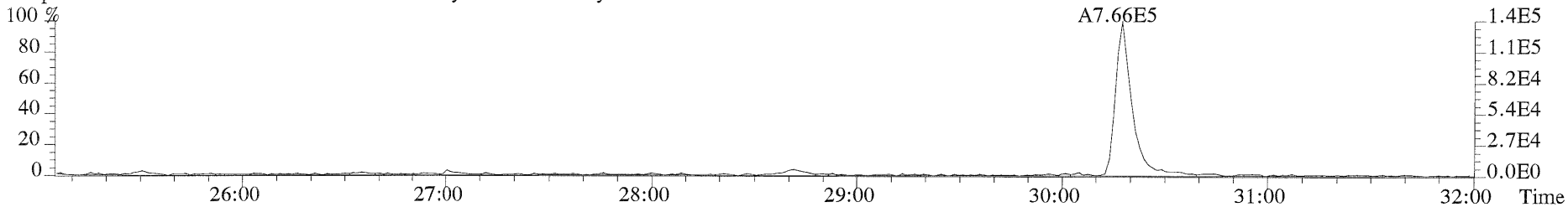
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



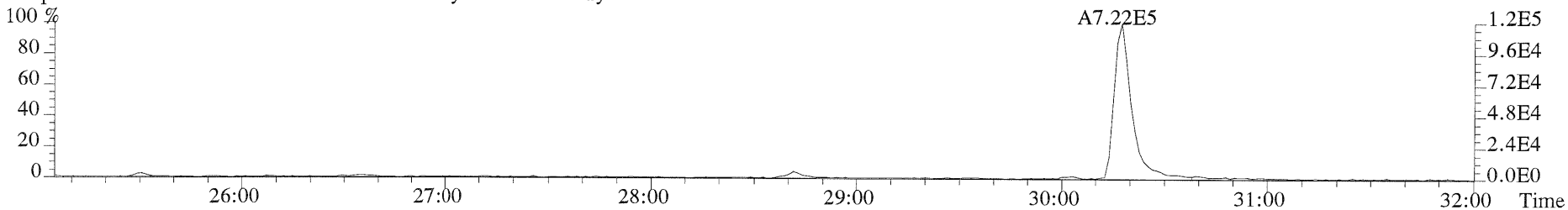
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



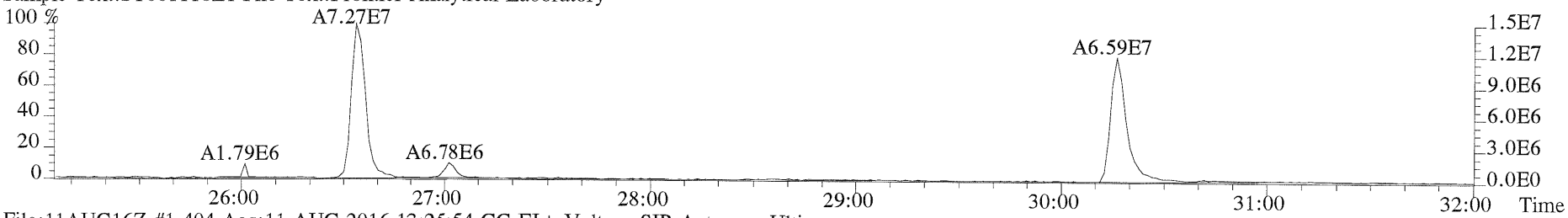
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



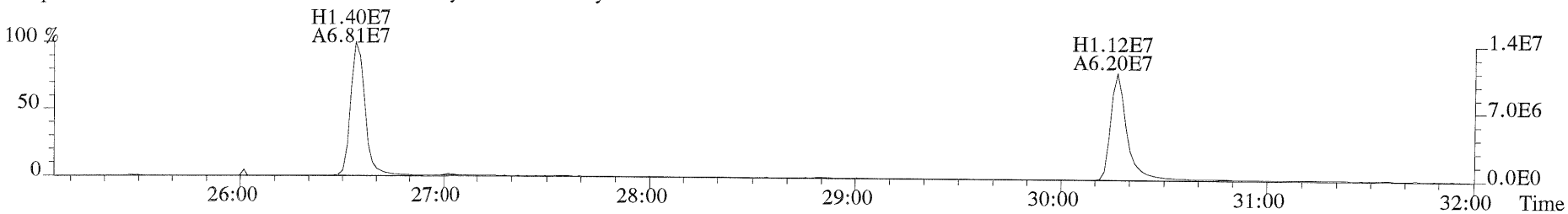
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



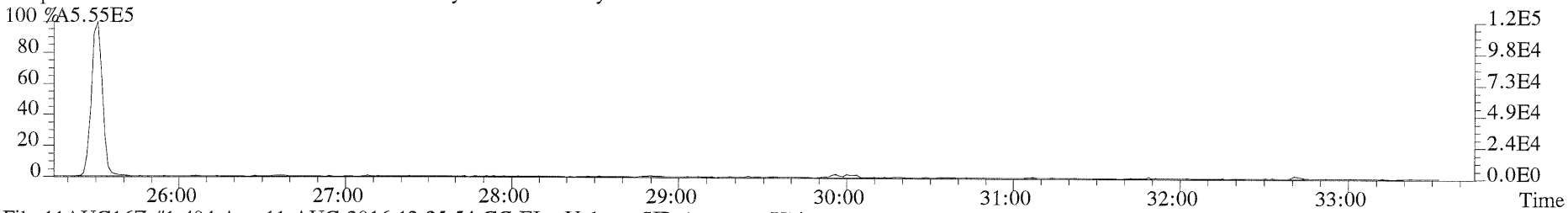
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



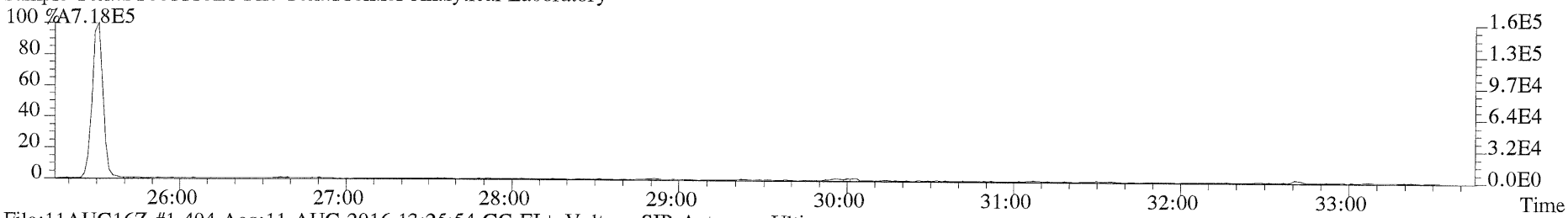
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



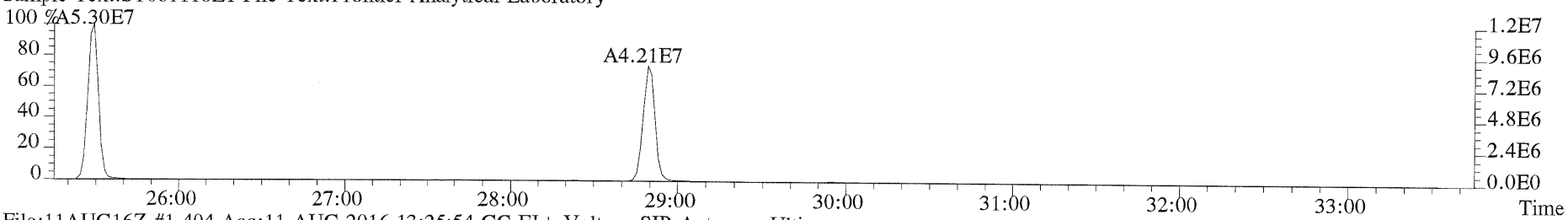
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



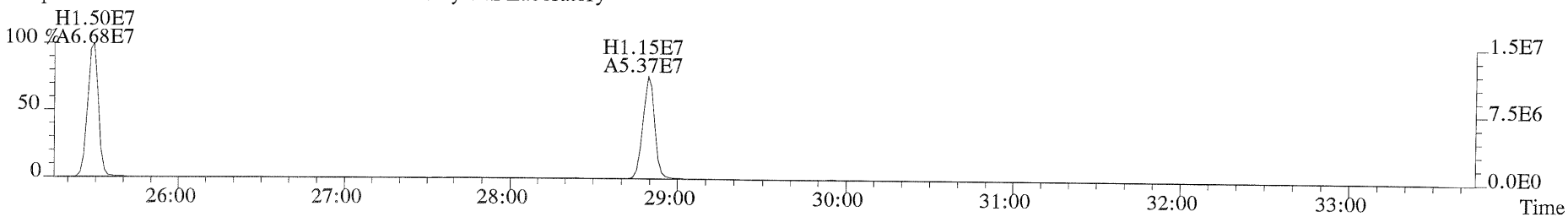
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



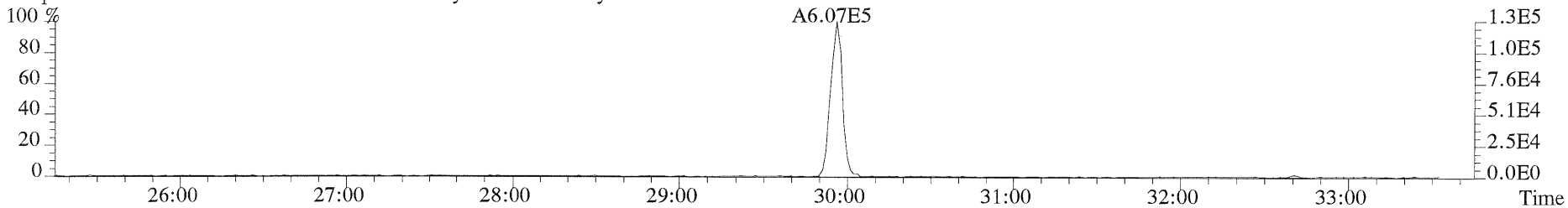
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



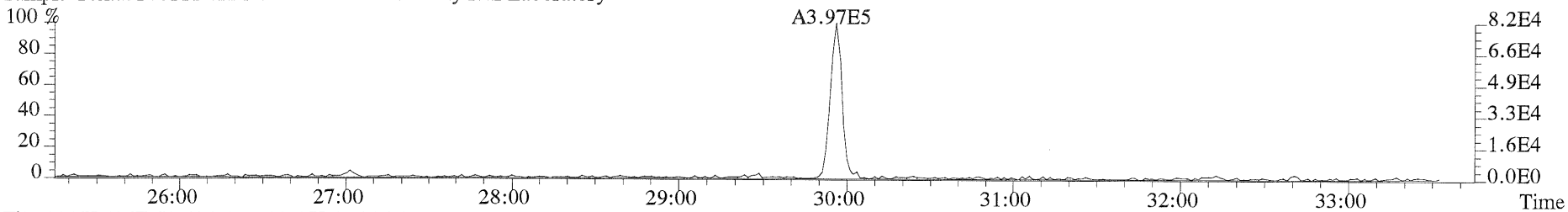
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



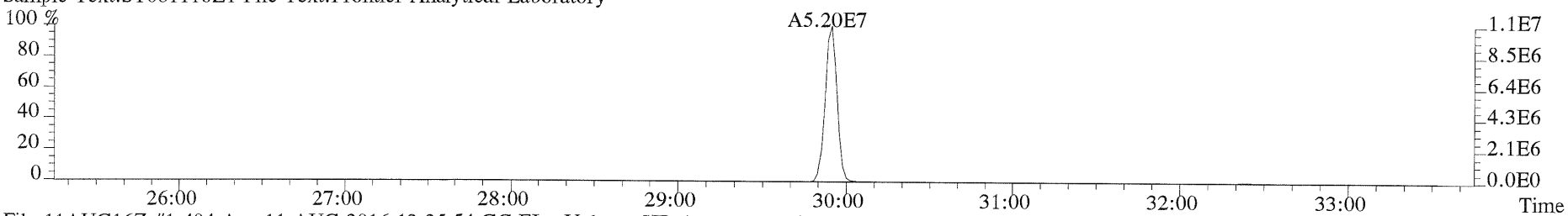
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



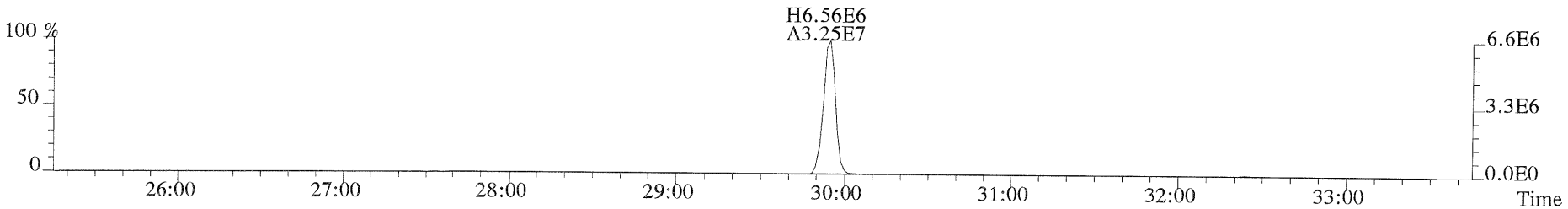
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



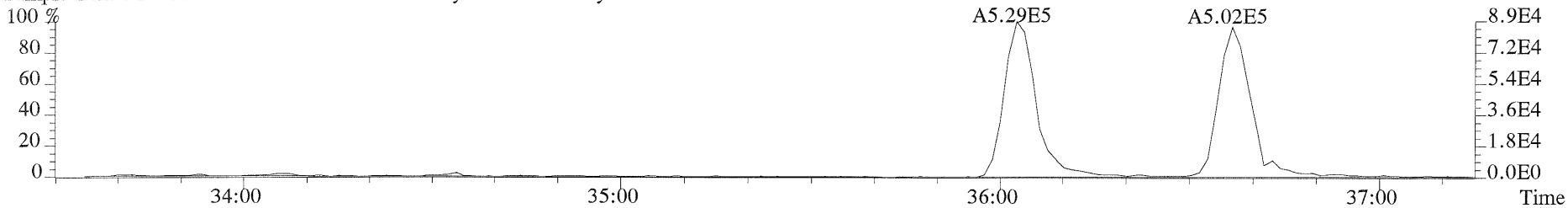
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



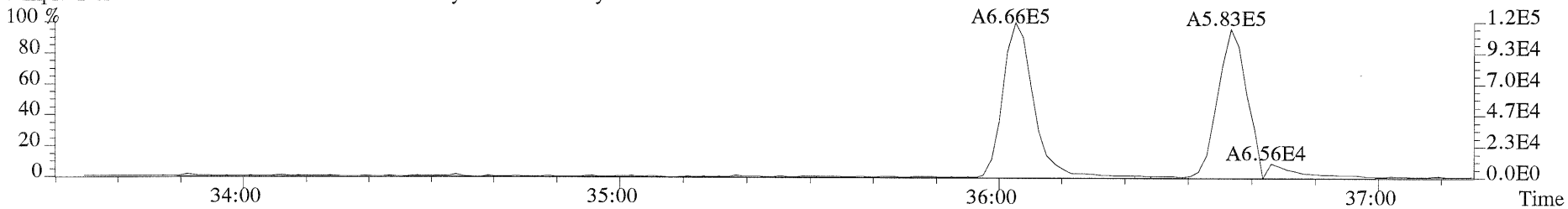
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



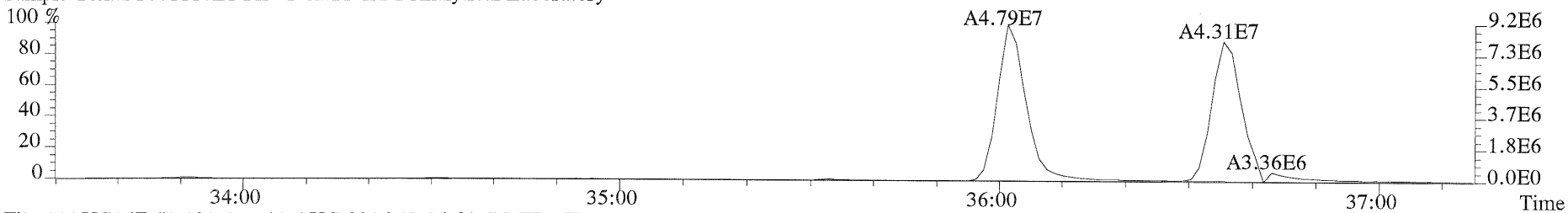
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



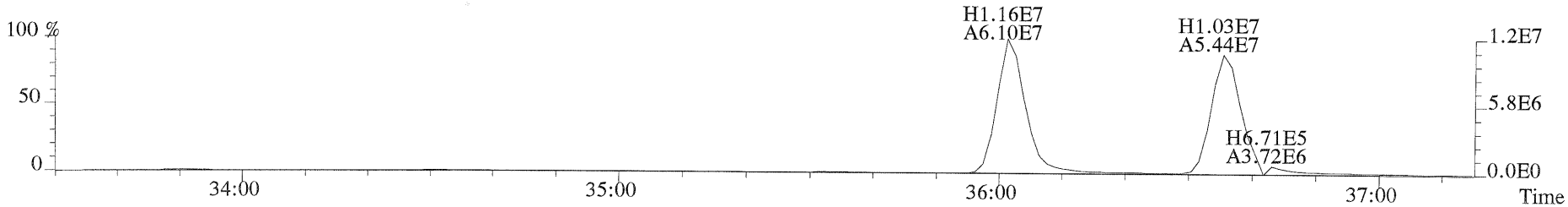
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



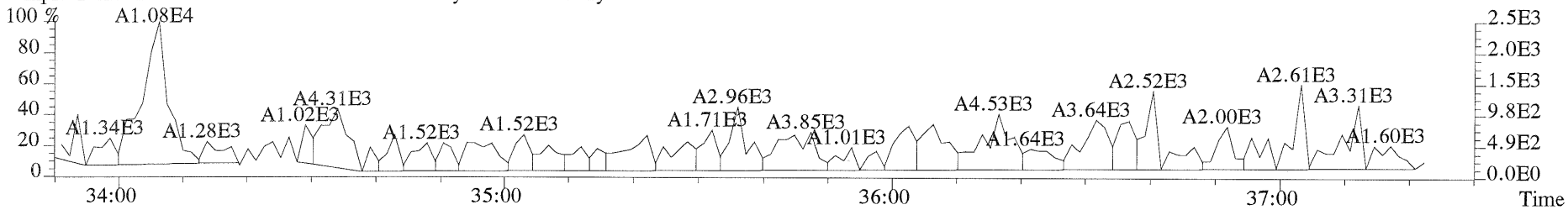
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



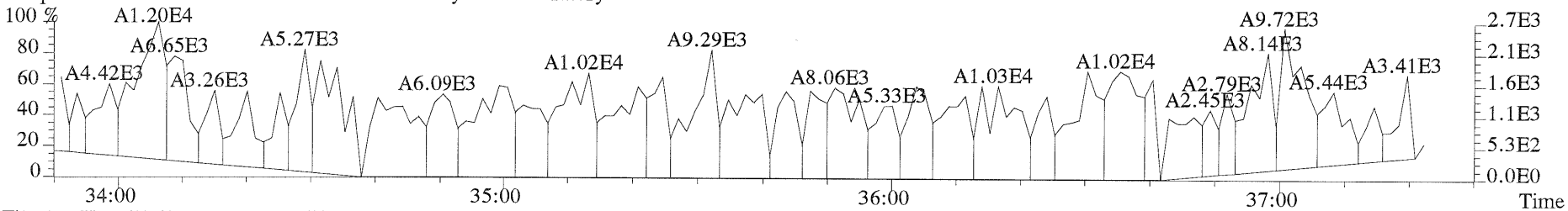
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



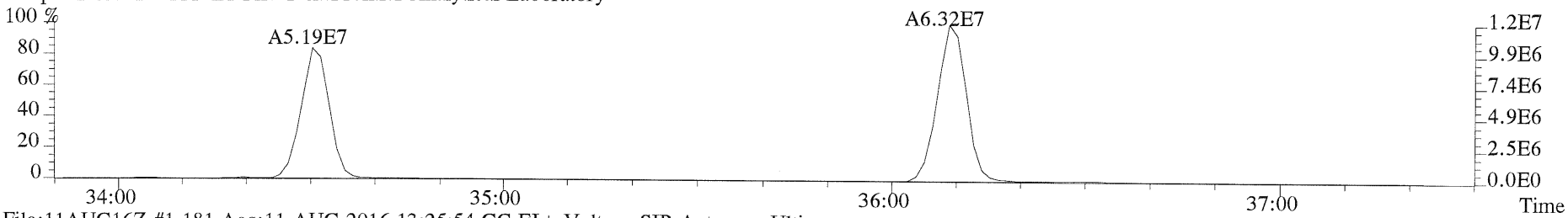
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



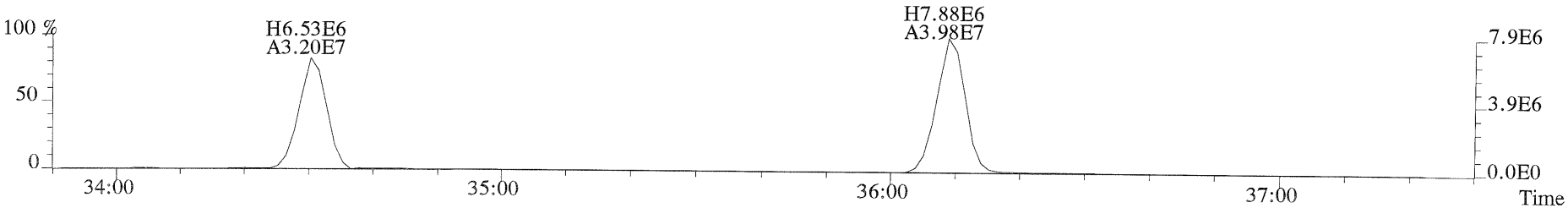
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



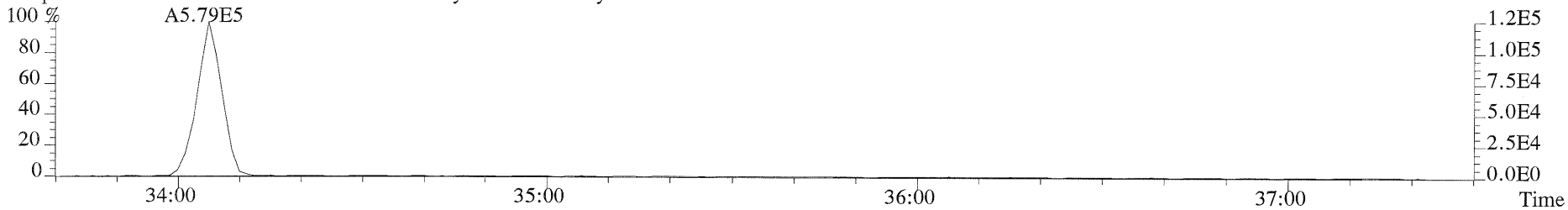
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



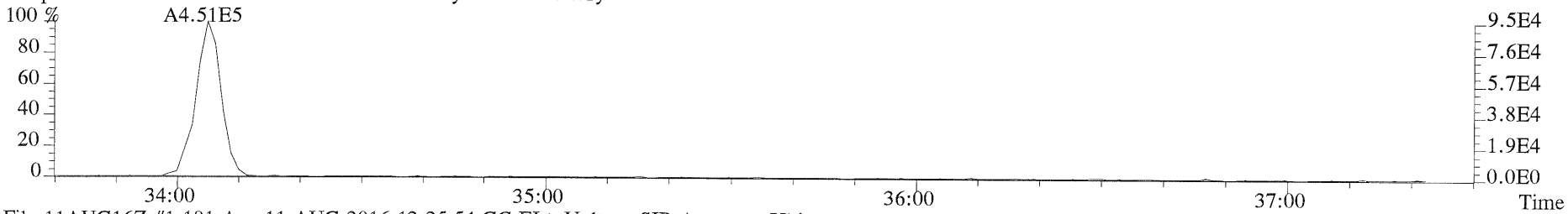
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



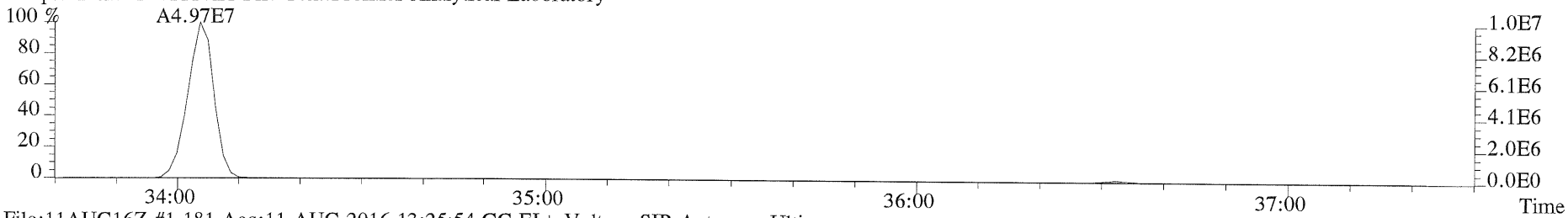
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



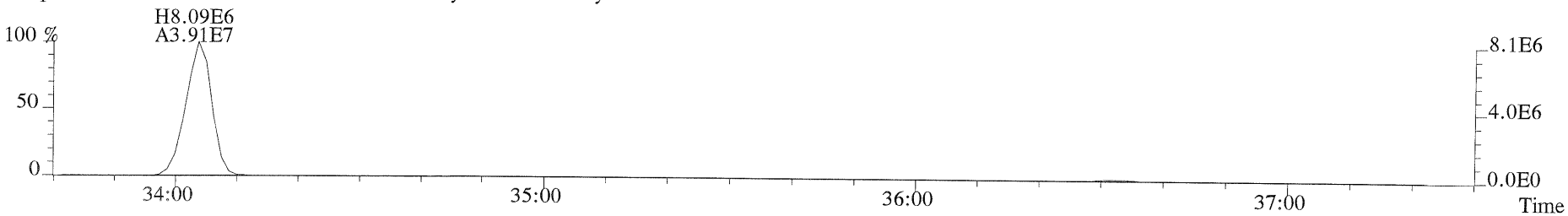
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



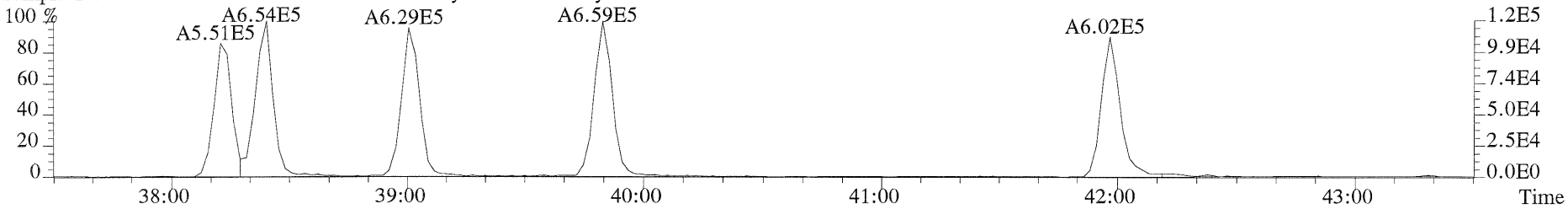
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



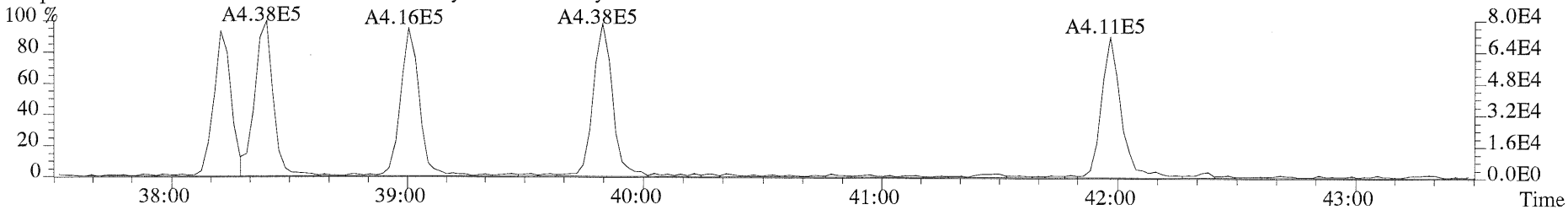
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



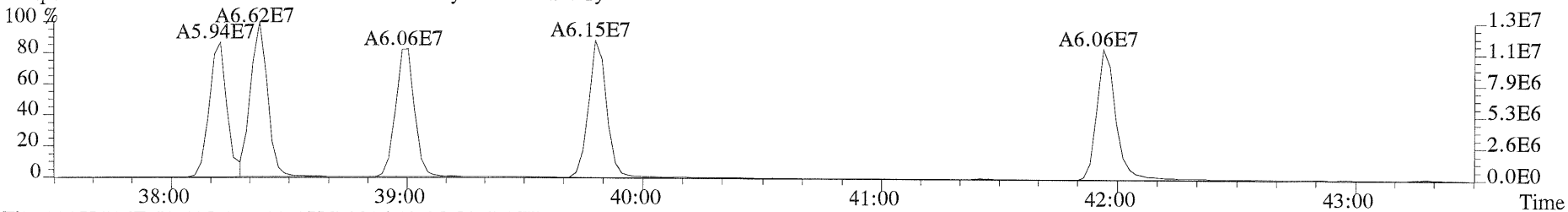
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



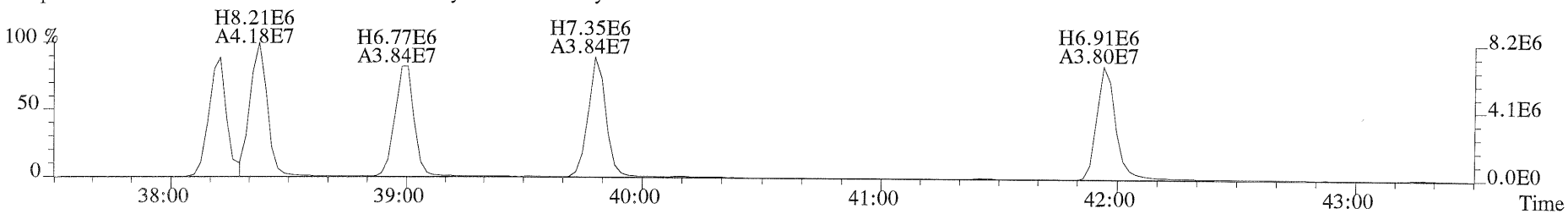
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



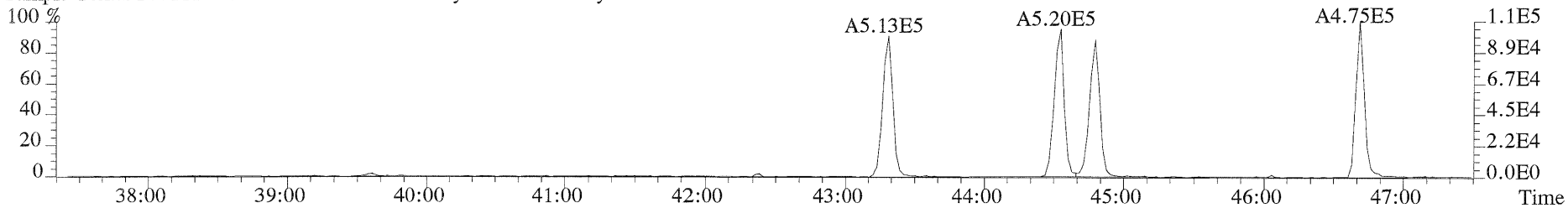
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



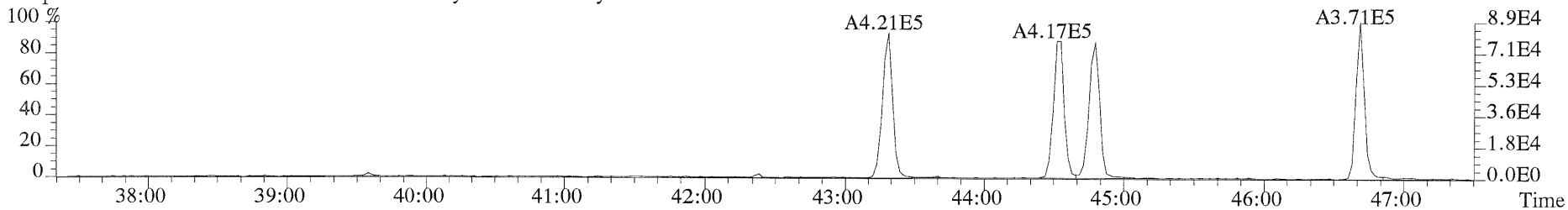
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



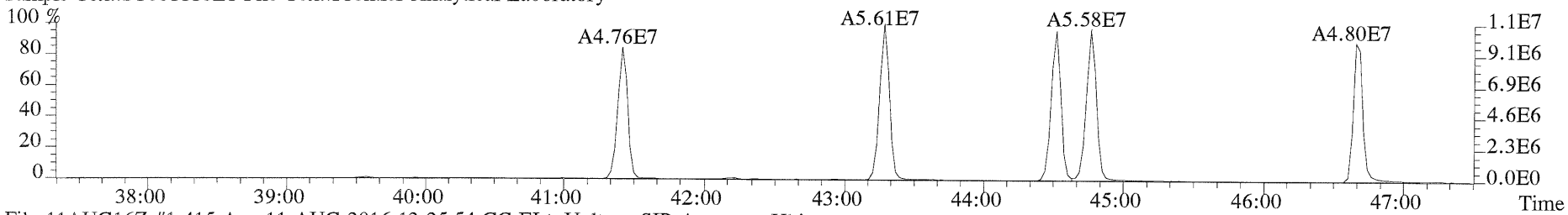
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



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



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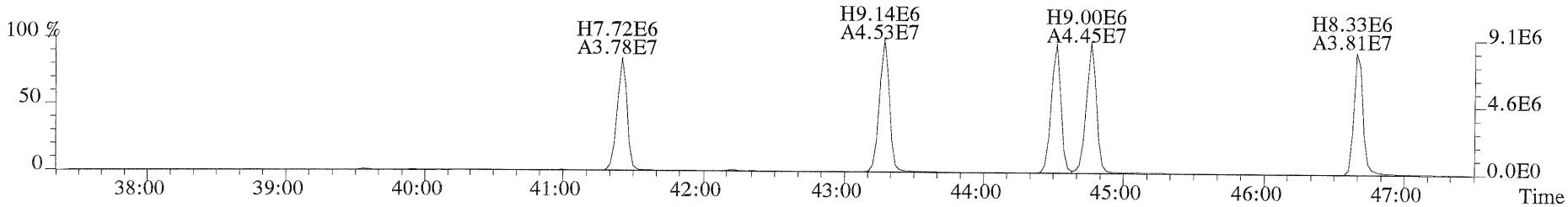
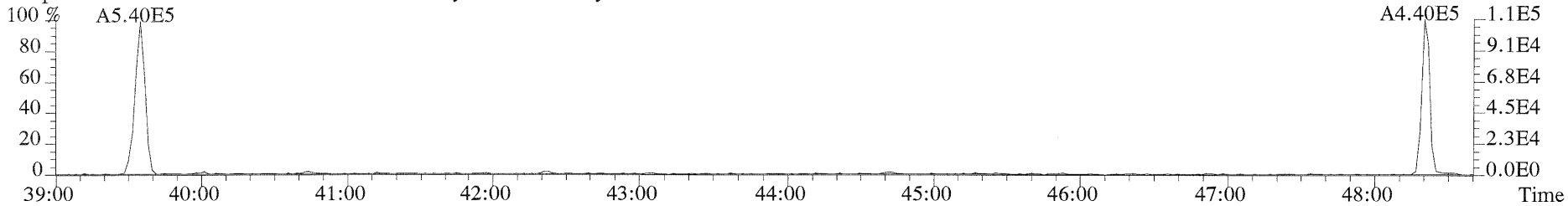
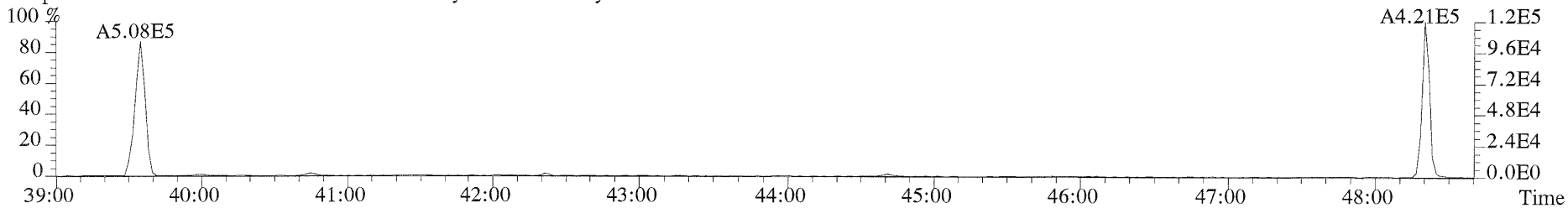
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



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



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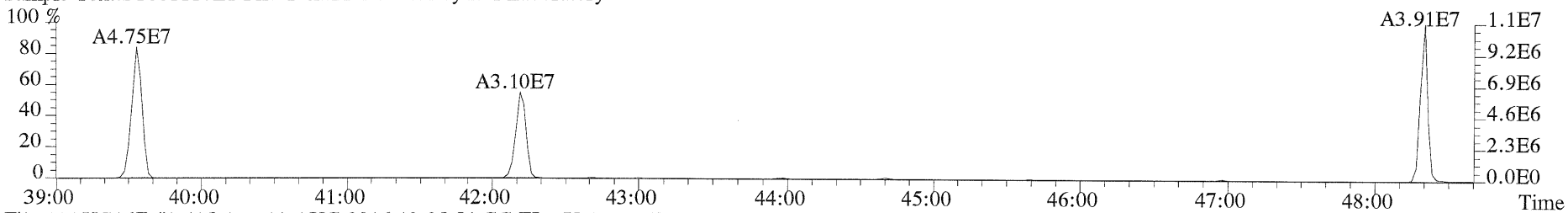
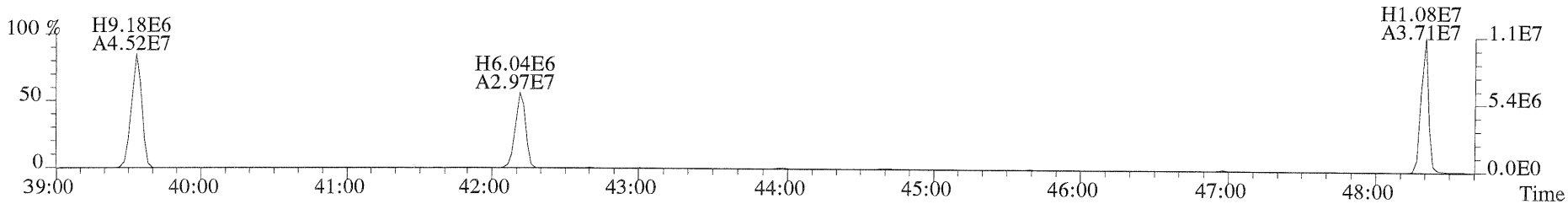
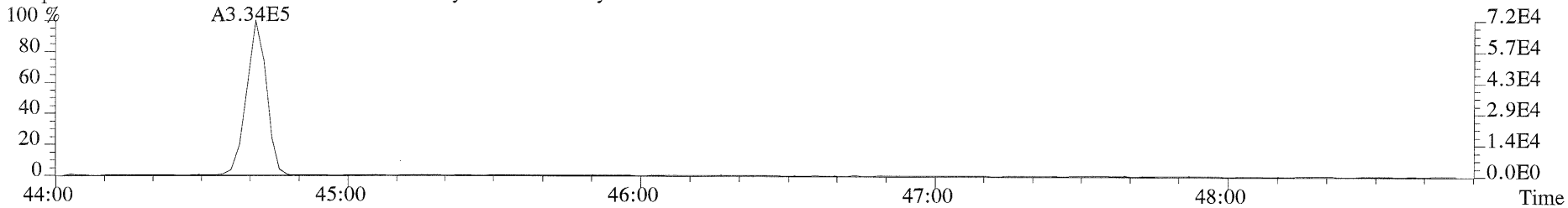
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



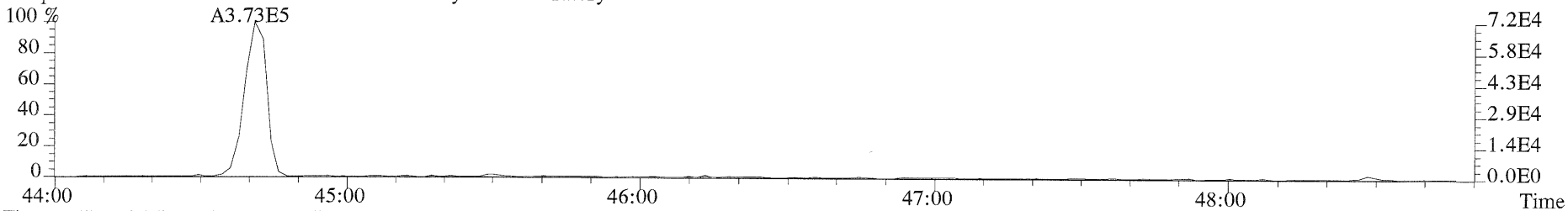
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



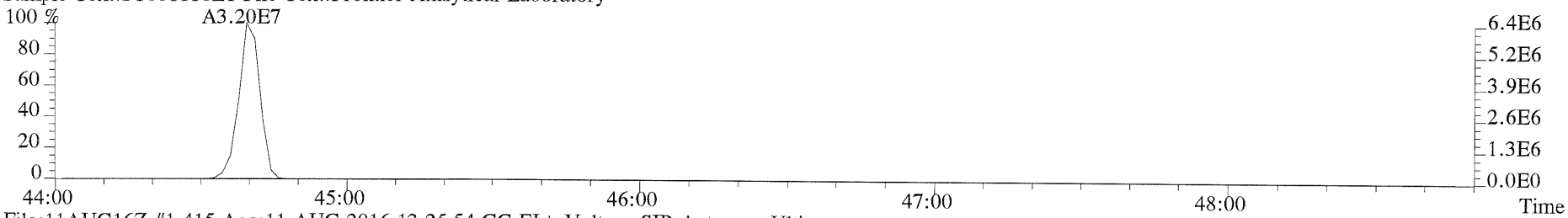
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



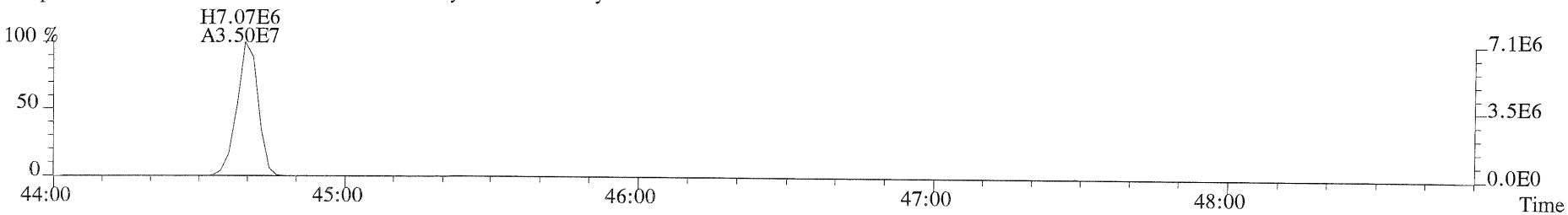
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



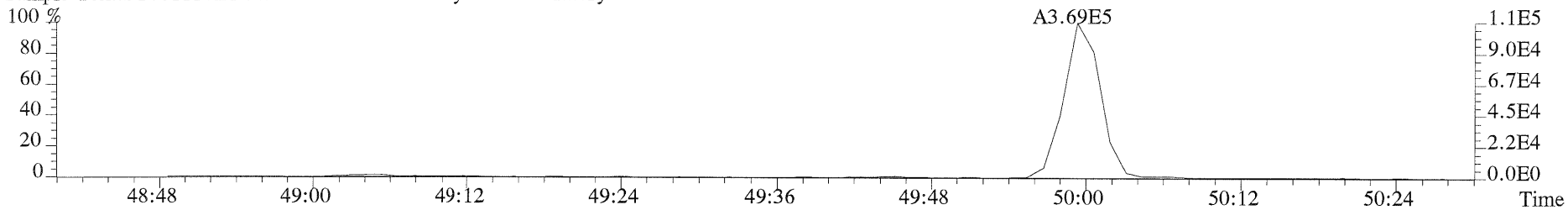
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



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



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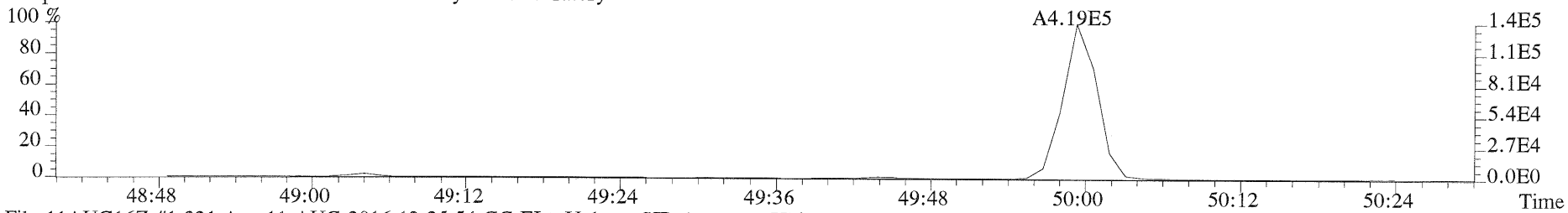
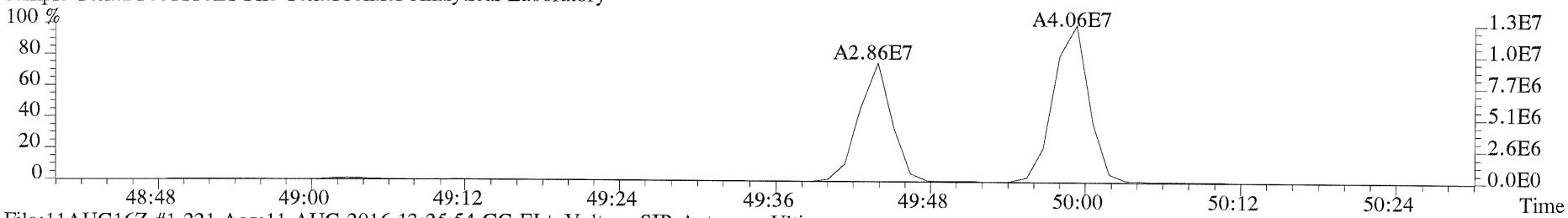
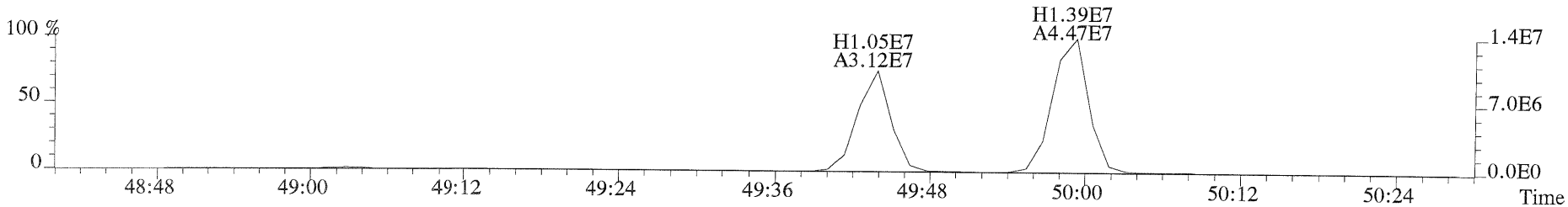
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



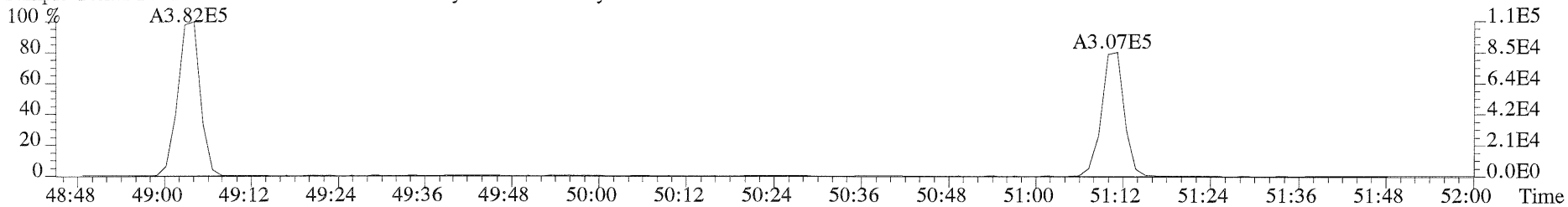
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



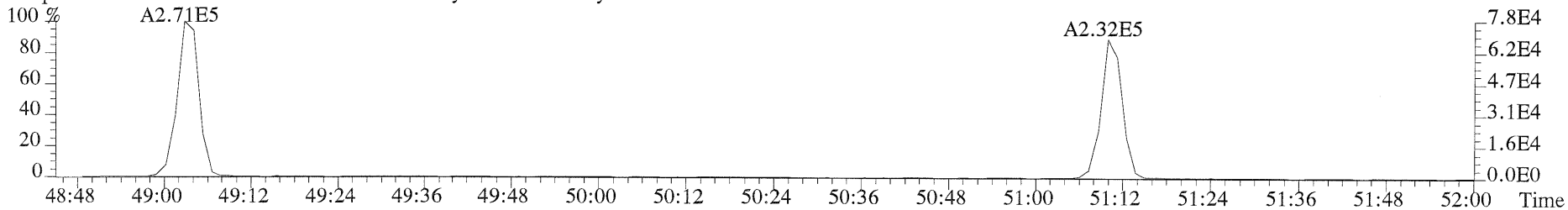
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



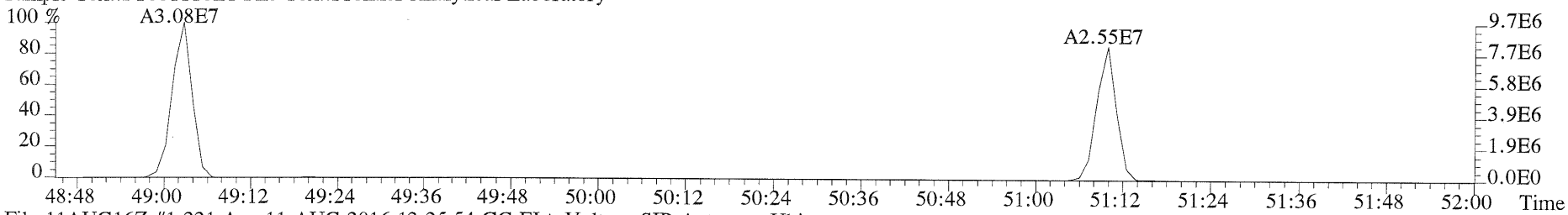
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



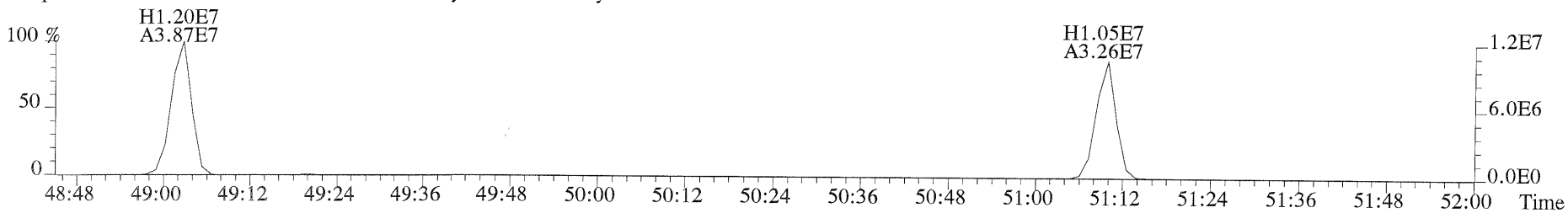
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



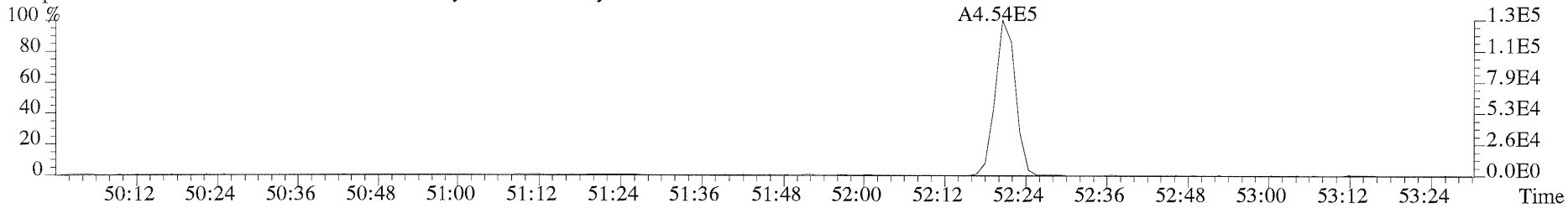
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



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



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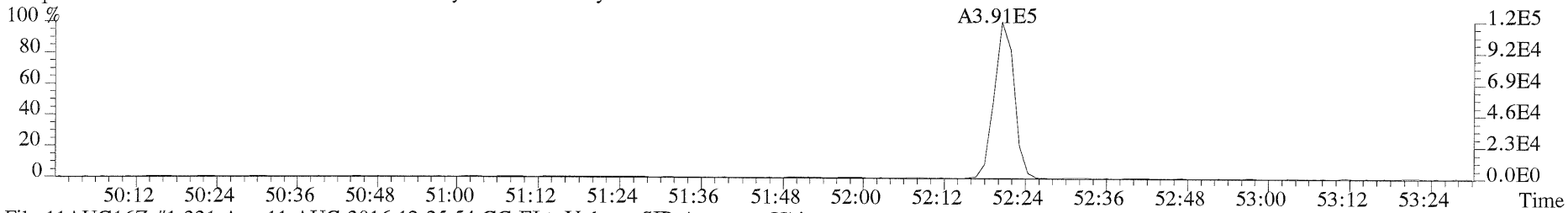
499.6797 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



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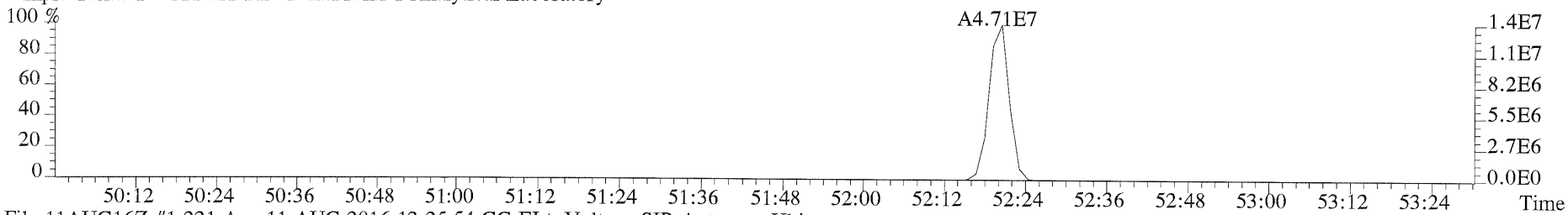
509.7229 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



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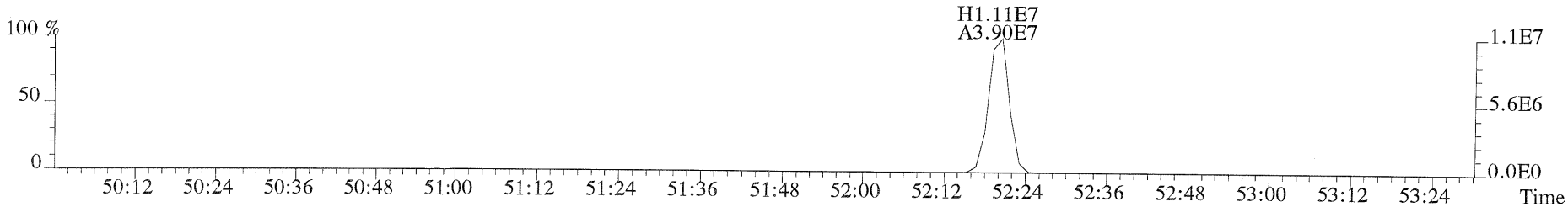
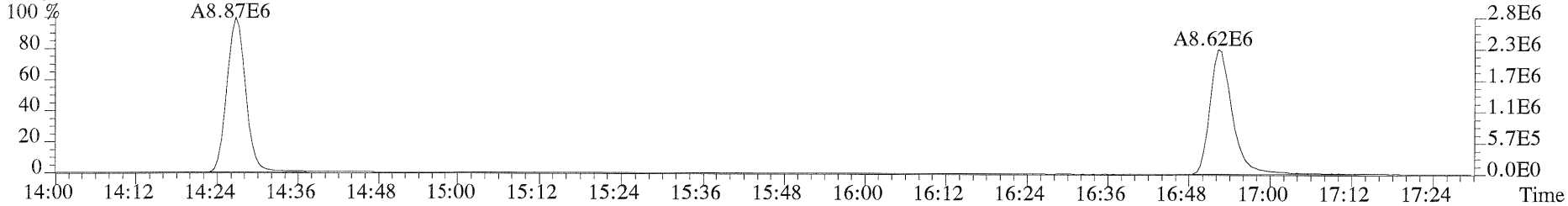
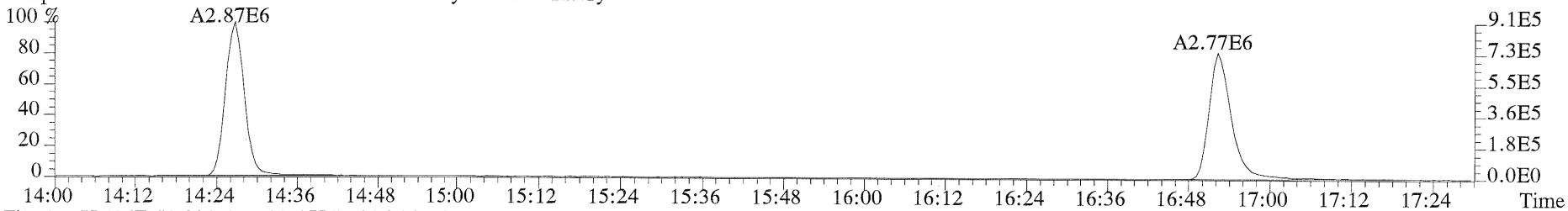
511.7199 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



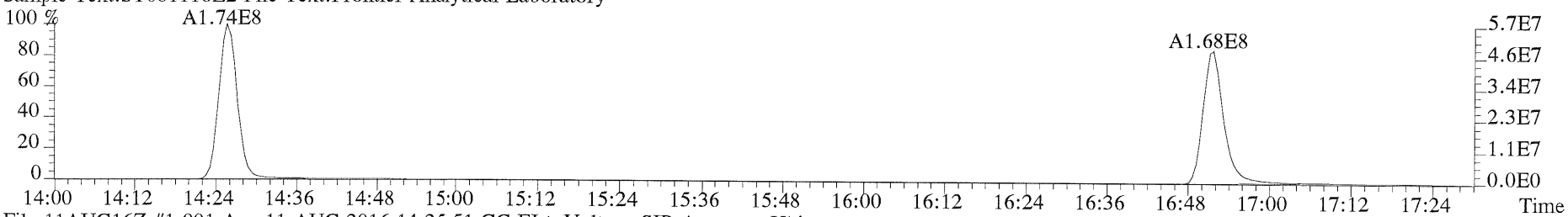
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



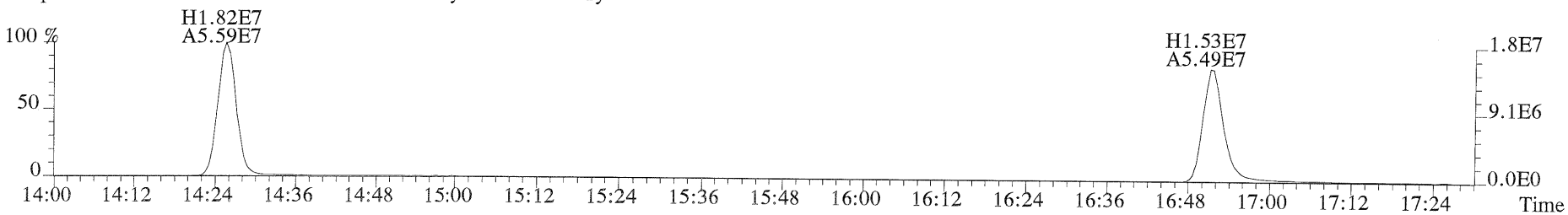
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



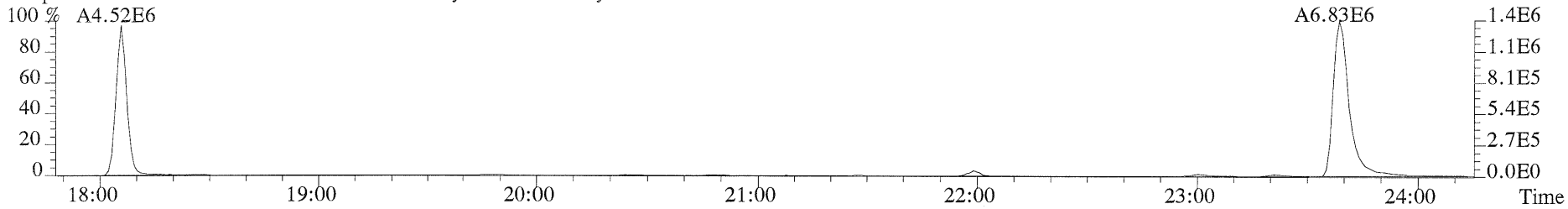
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



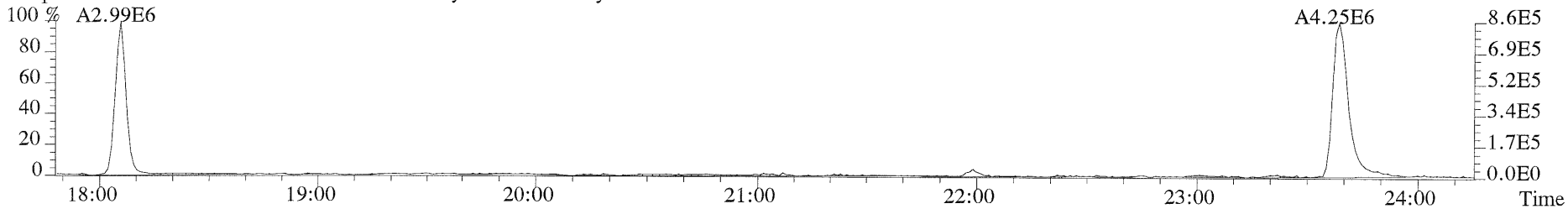
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



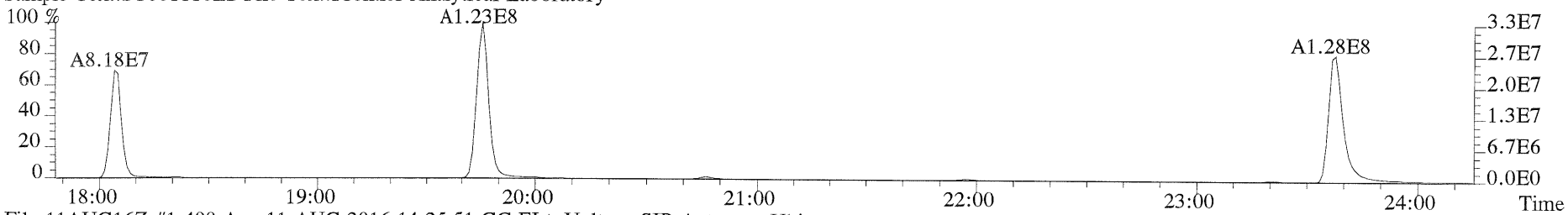
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



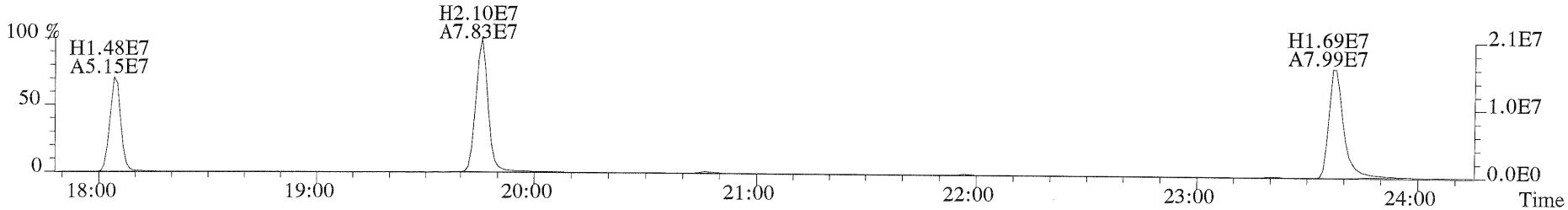
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



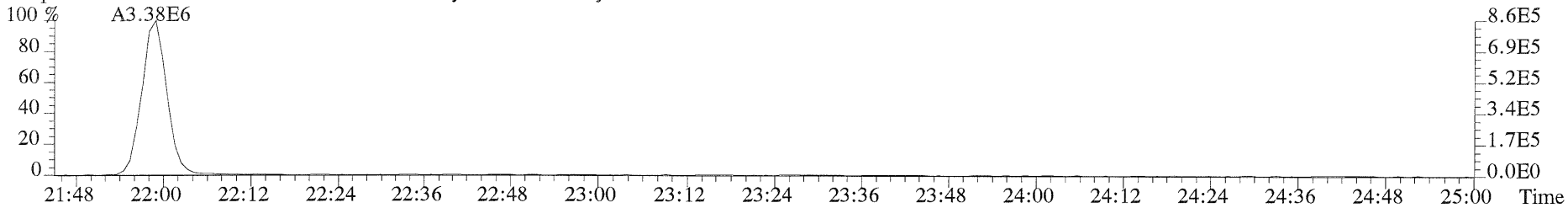
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



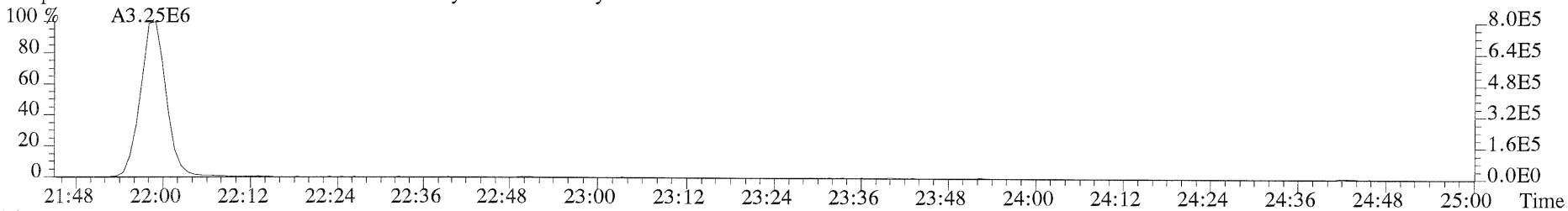
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



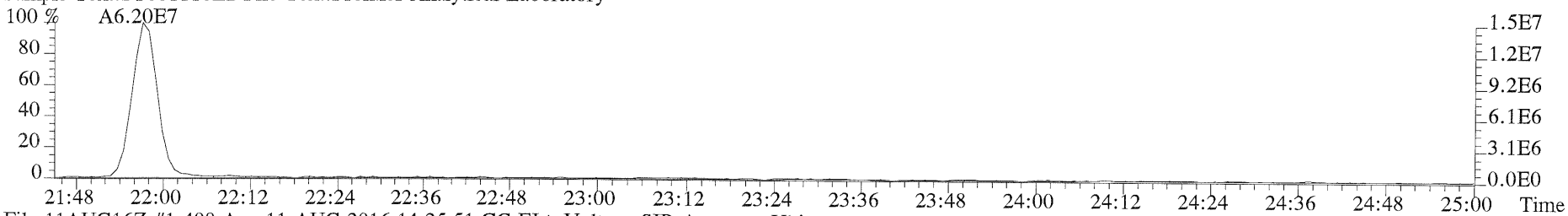
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



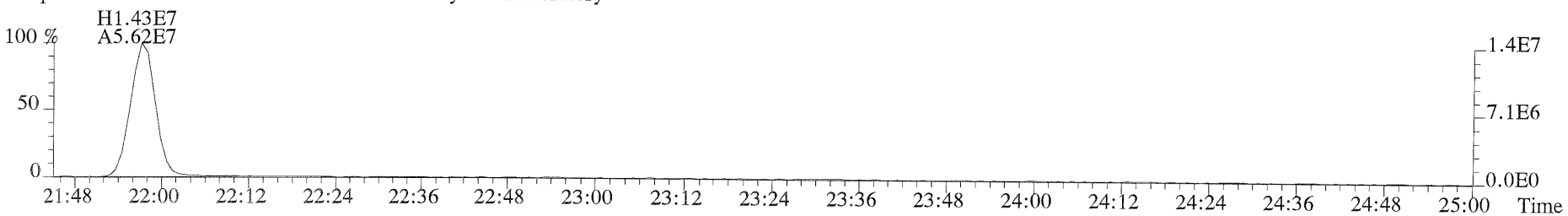
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



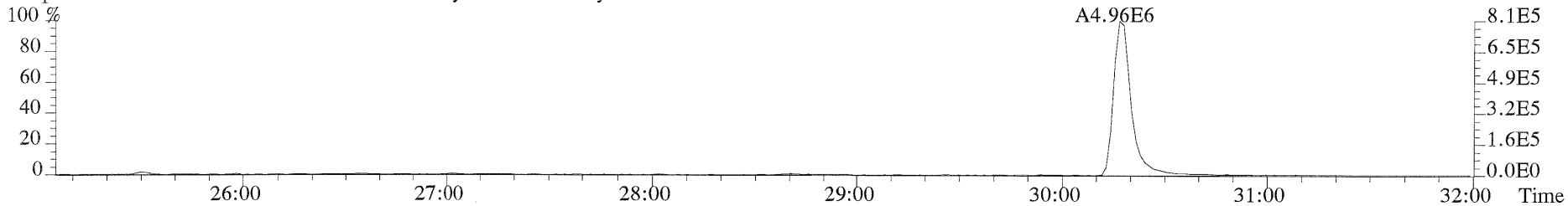
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



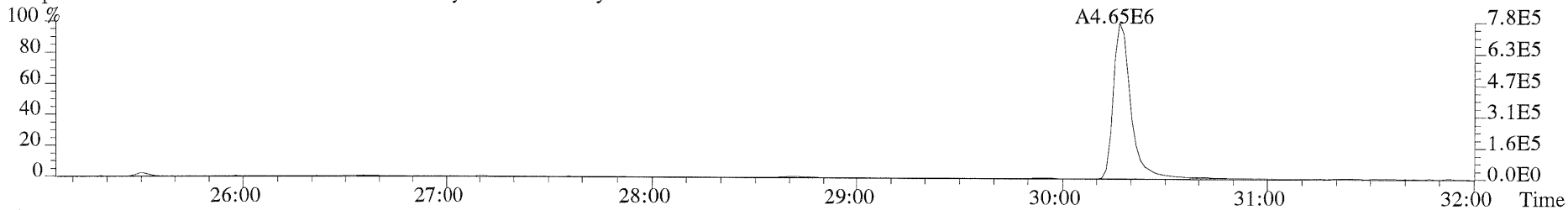
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



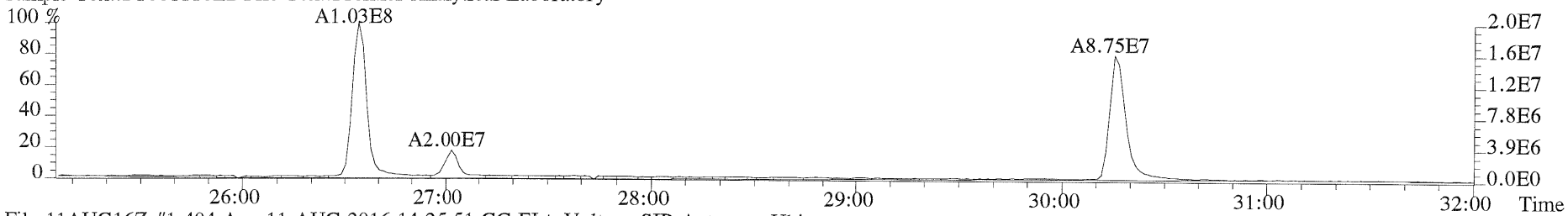
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



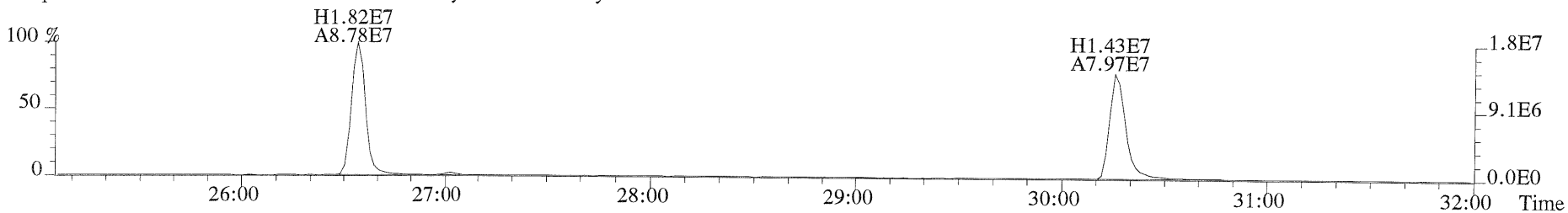
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



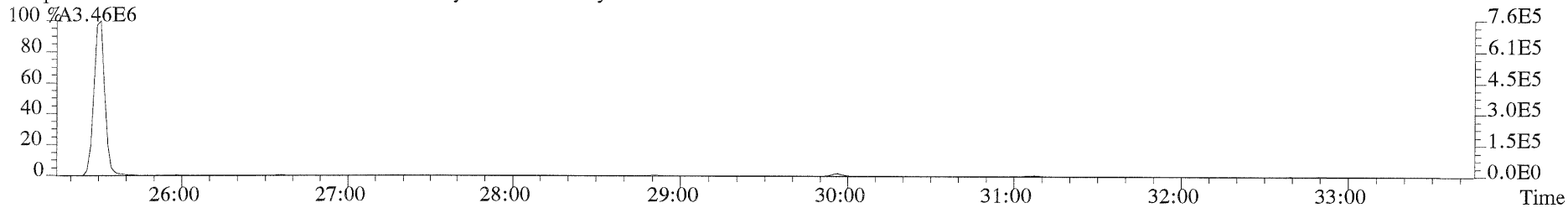
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



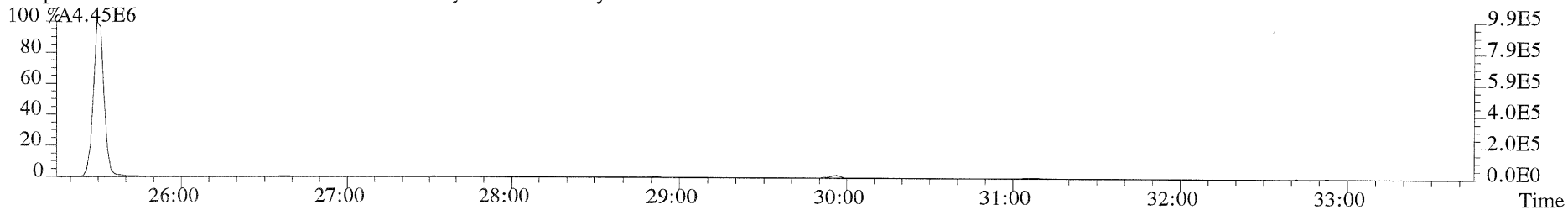
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



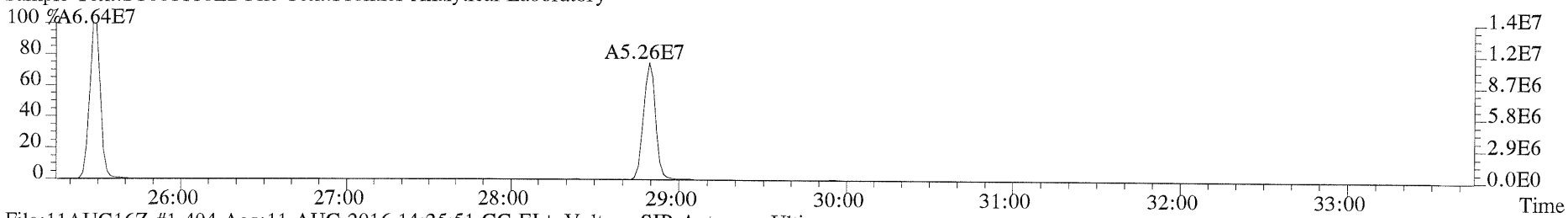
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



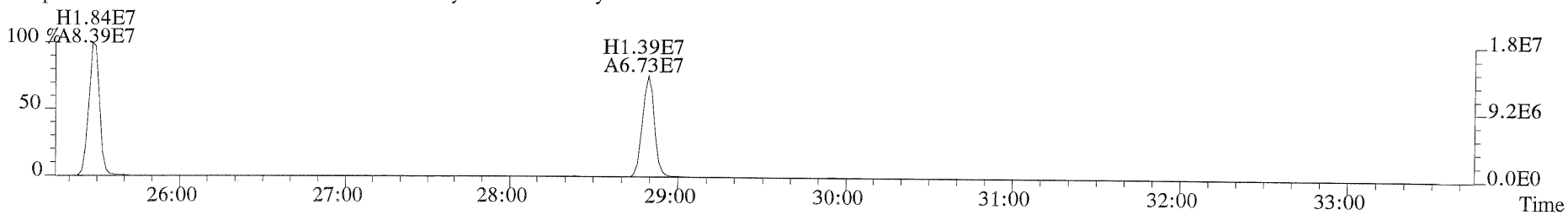
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



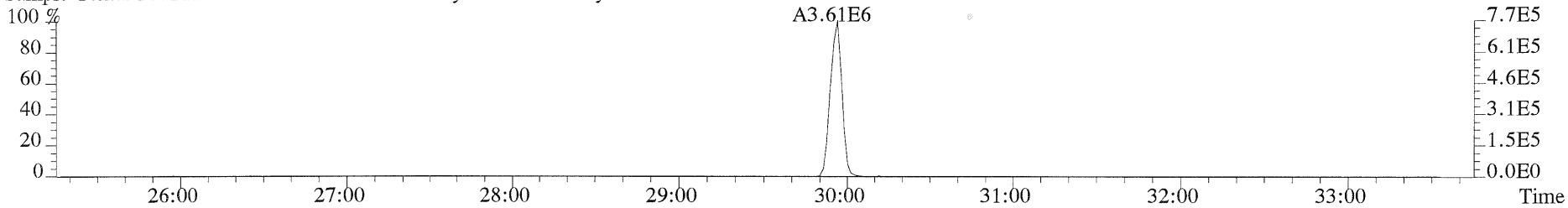
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



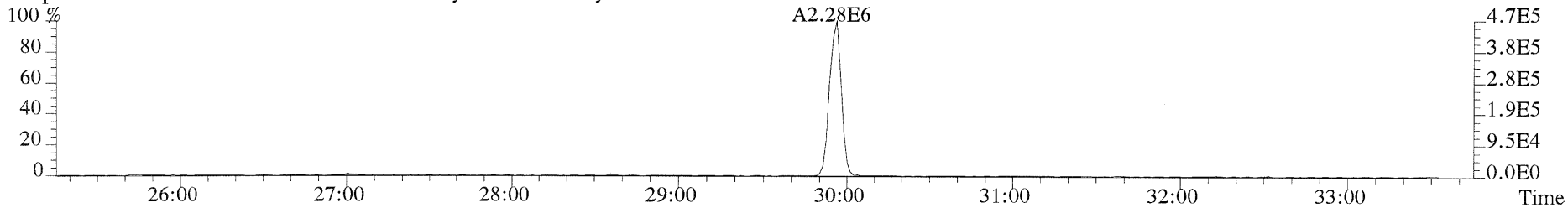
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



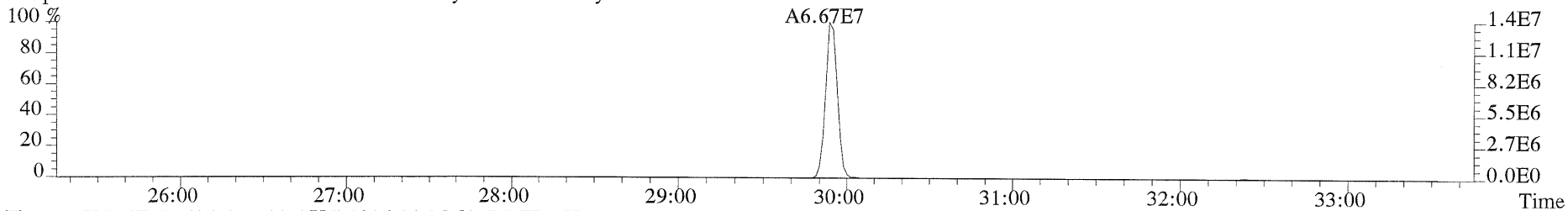
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



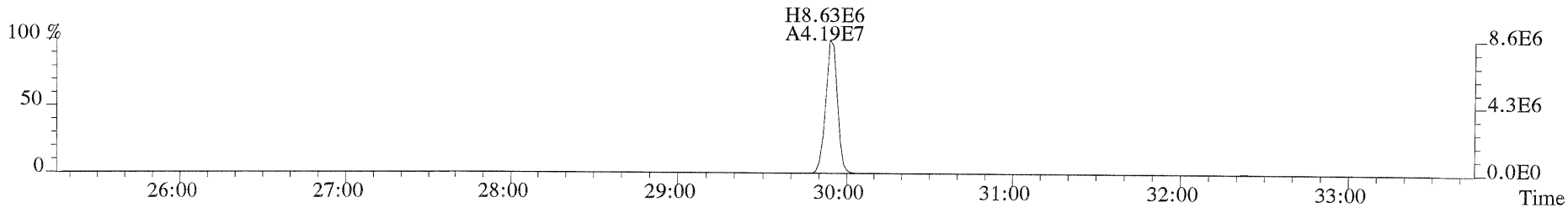
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



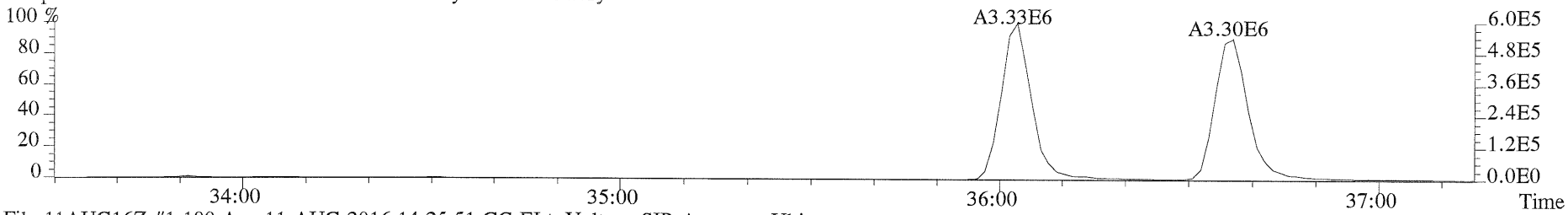
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



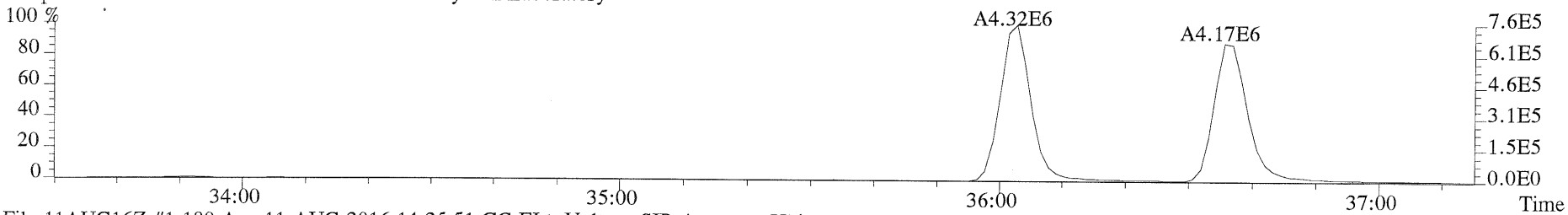
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



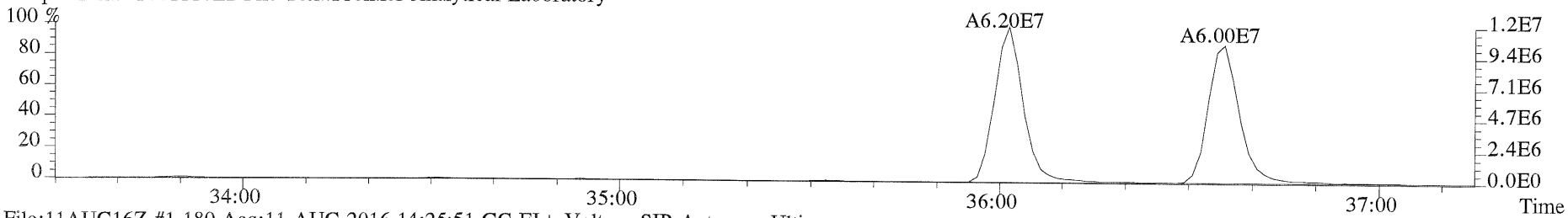
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



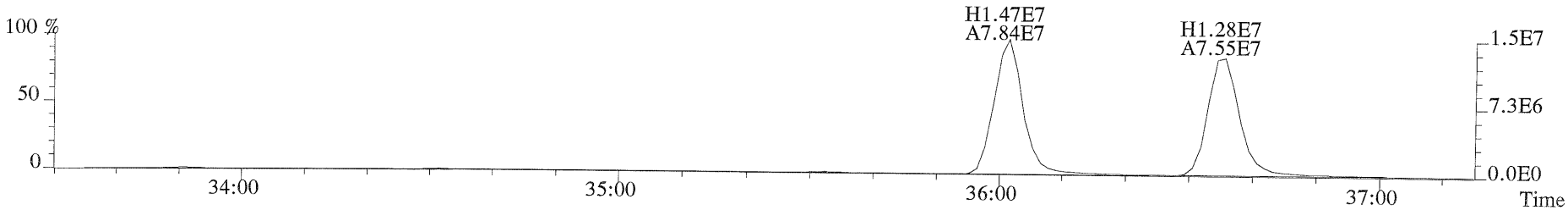
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



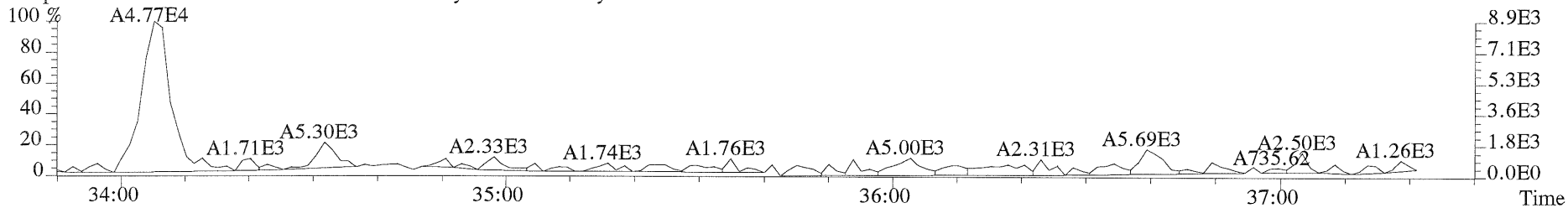
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



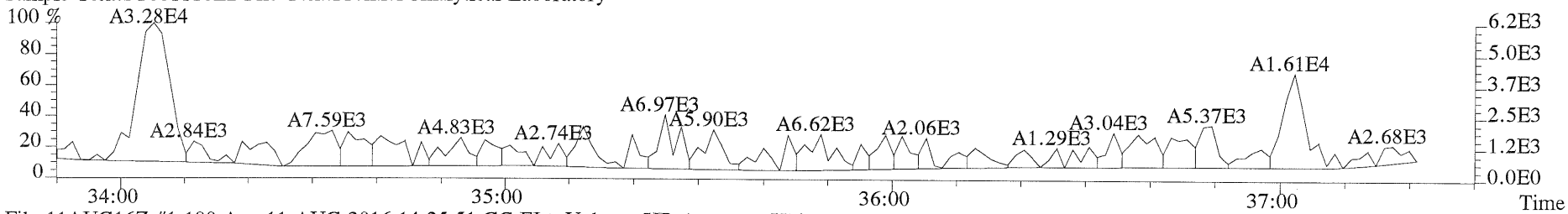
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



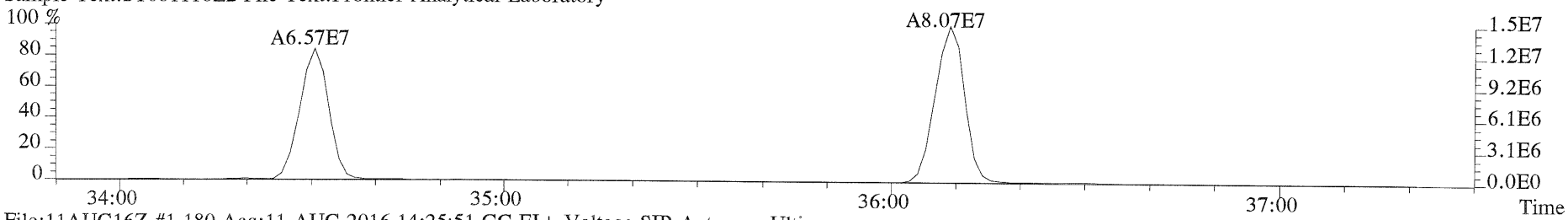
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



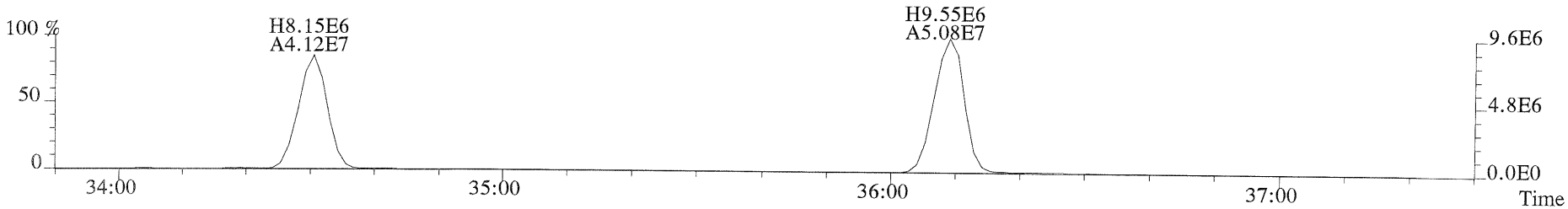
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



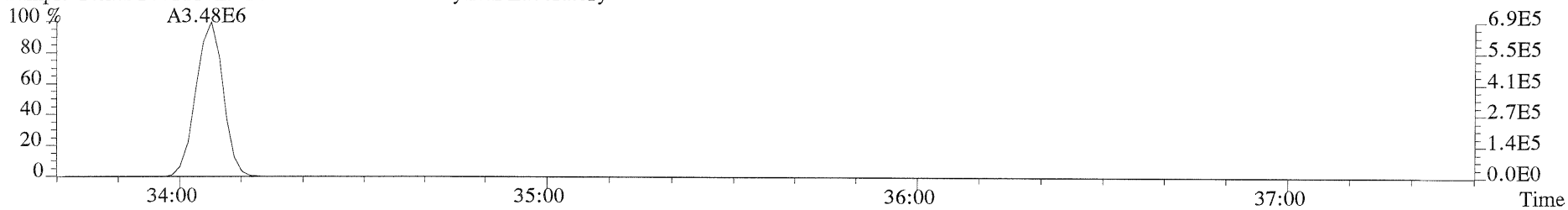
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



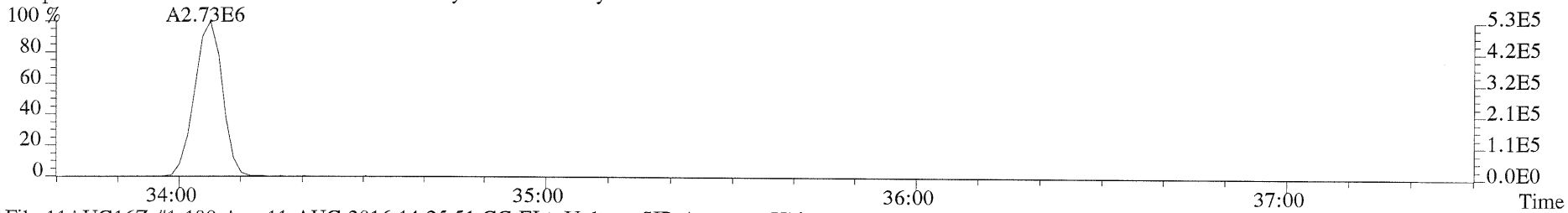
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



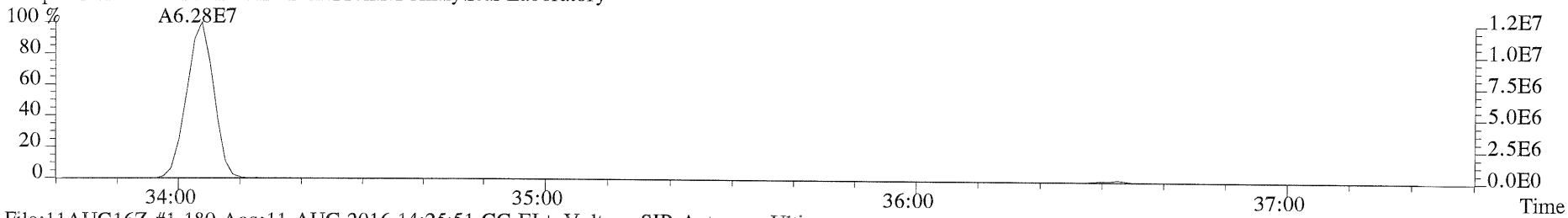
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



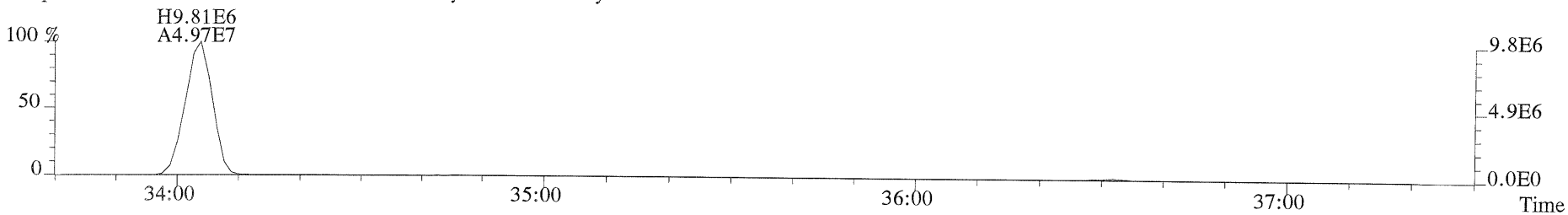
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



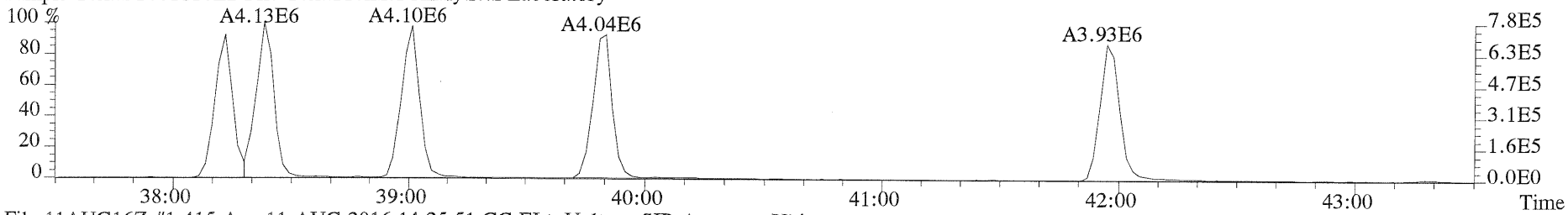
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



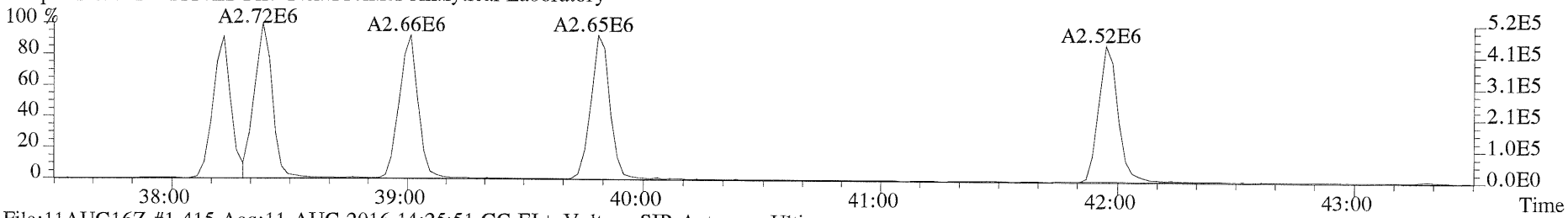
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



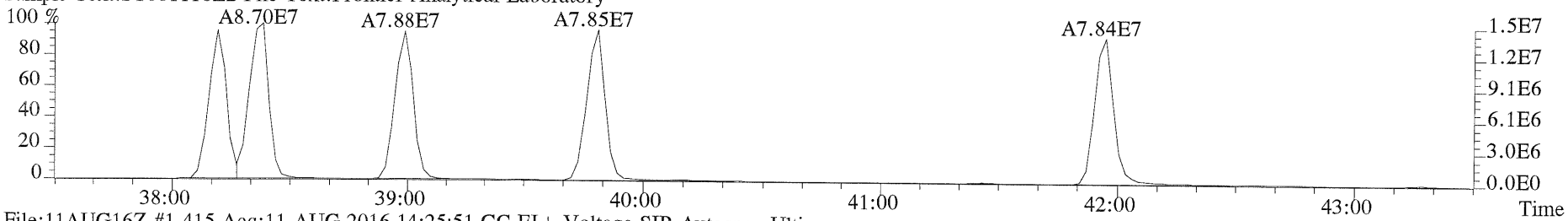
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



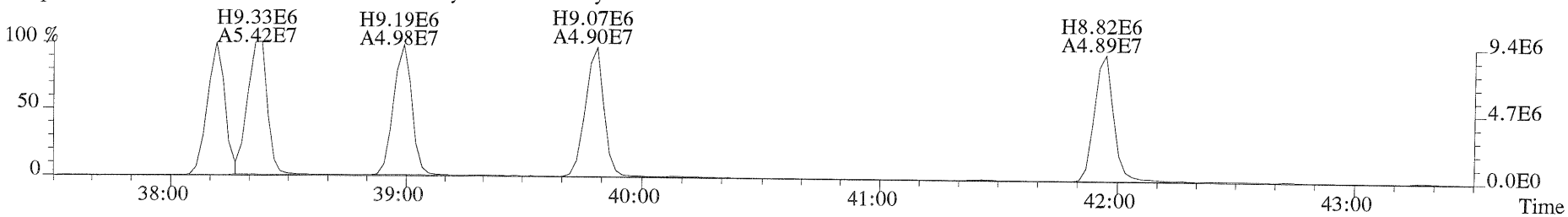
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



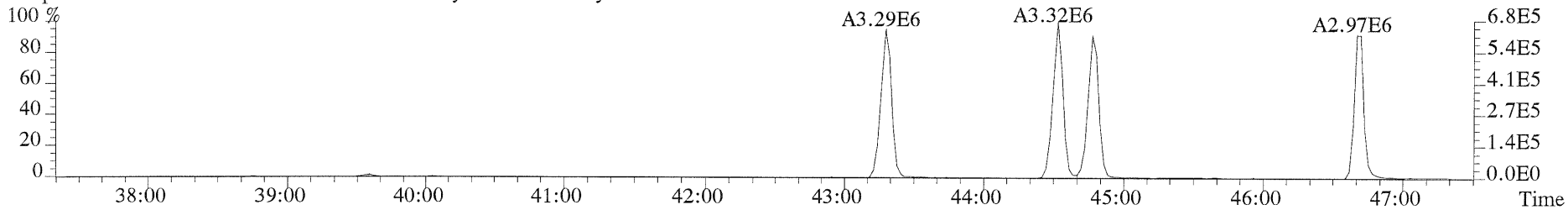
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



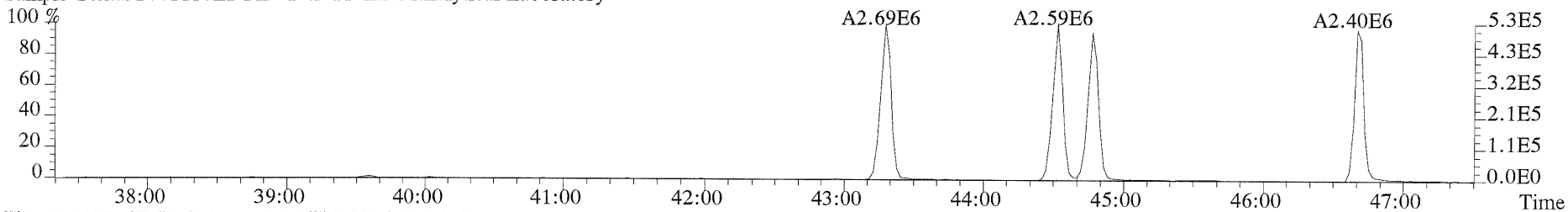
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



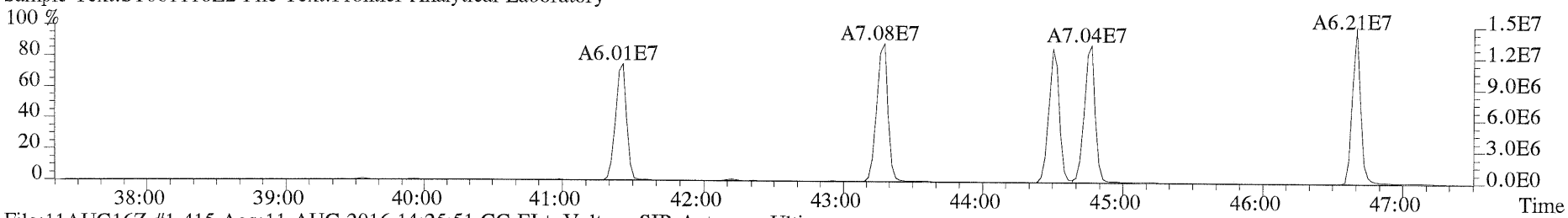
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



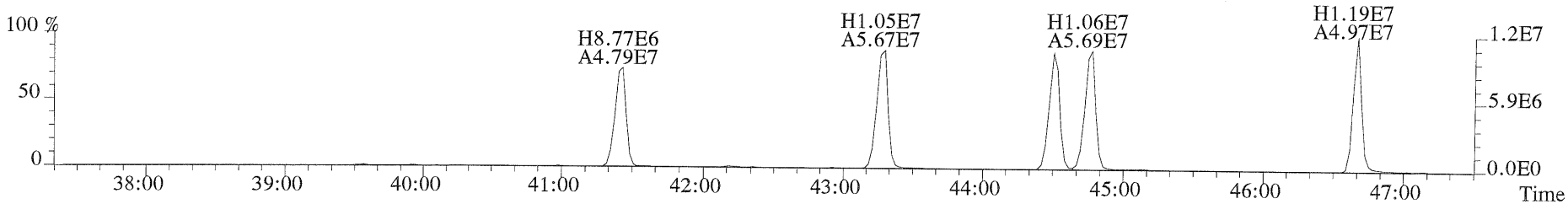
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



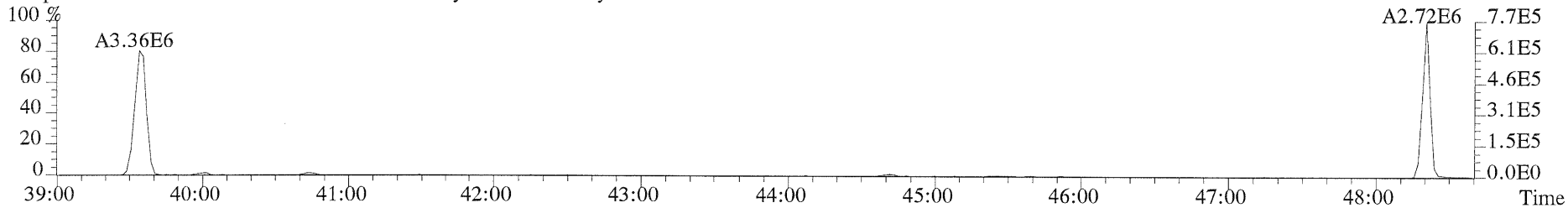
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



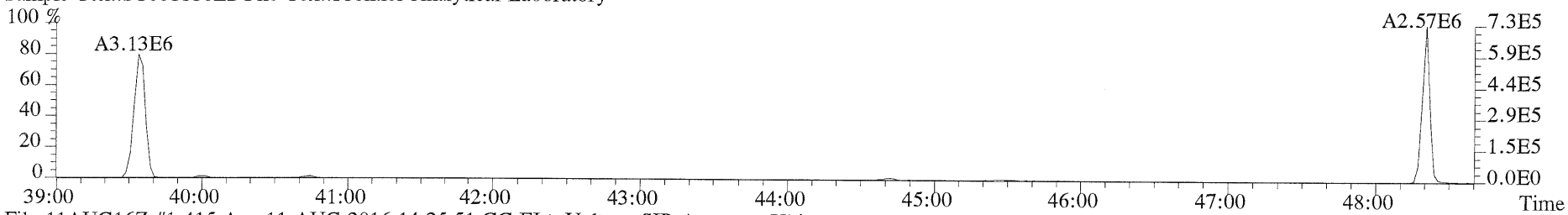
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



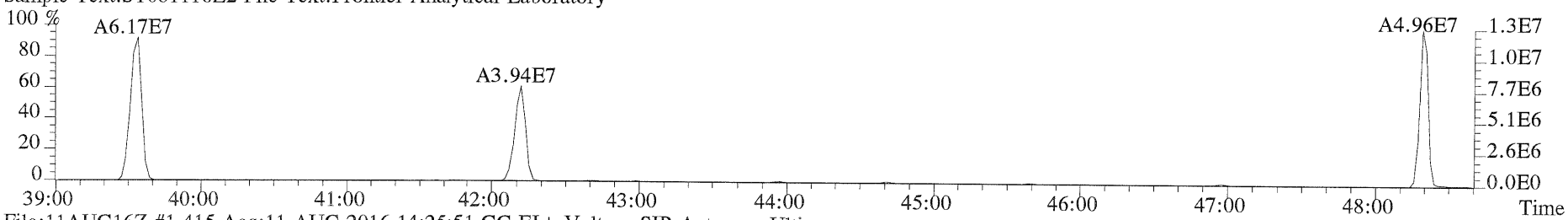
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



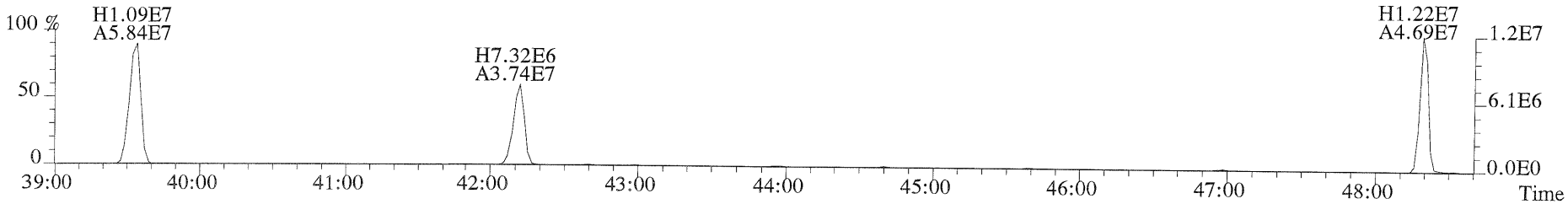
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



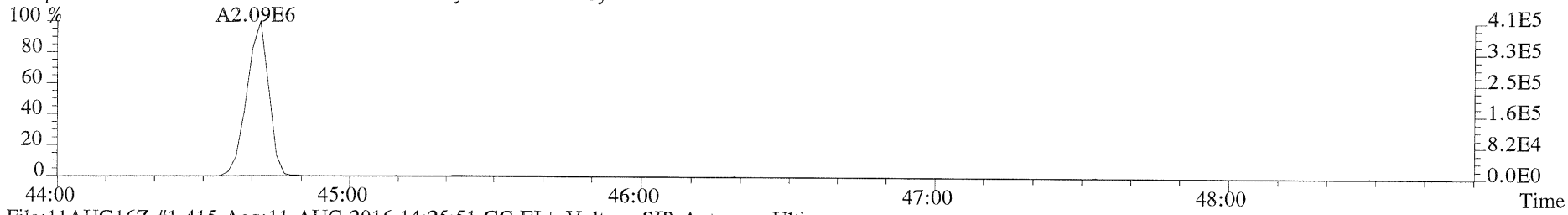
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



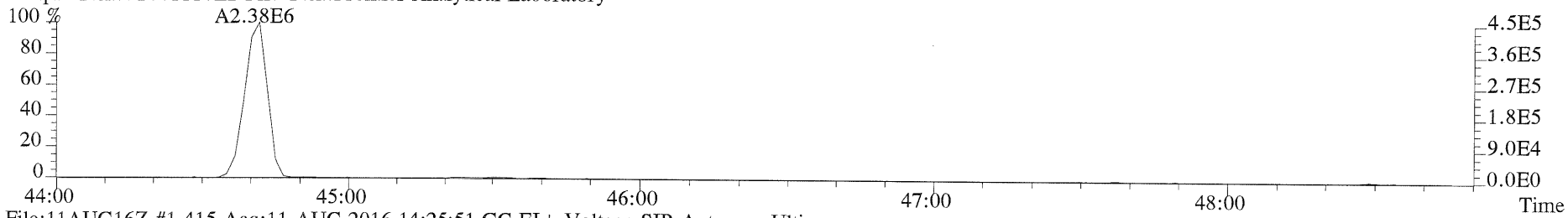
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



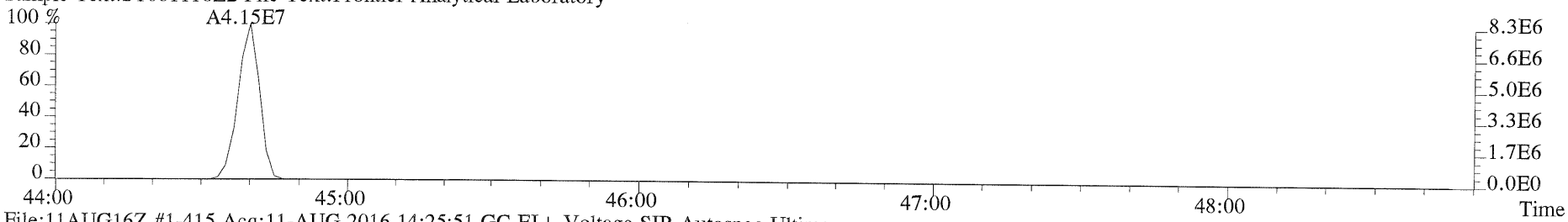
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



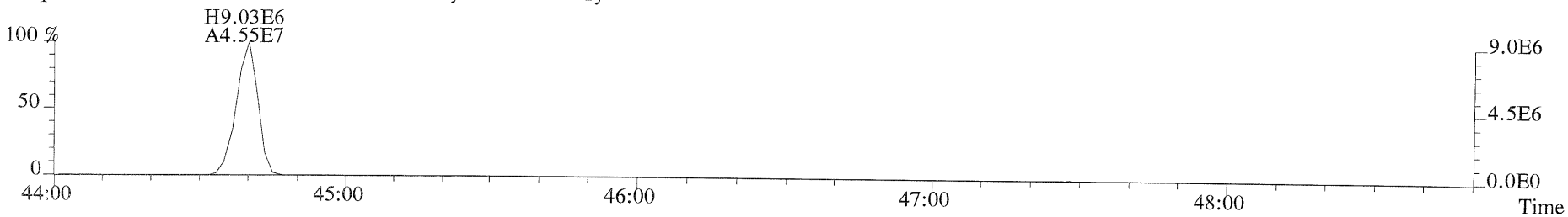
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



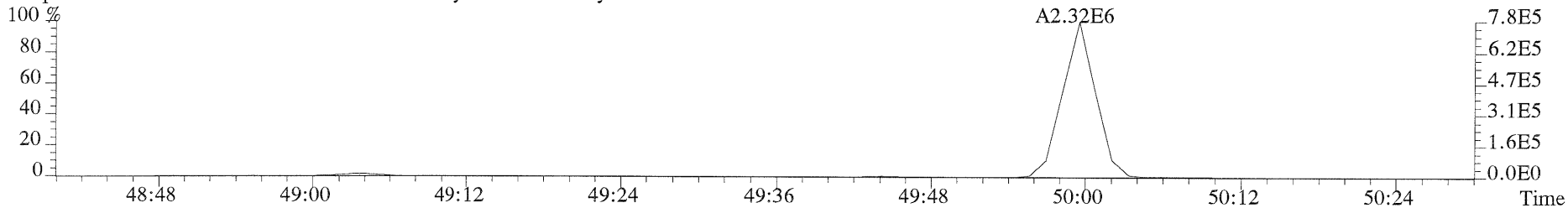
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



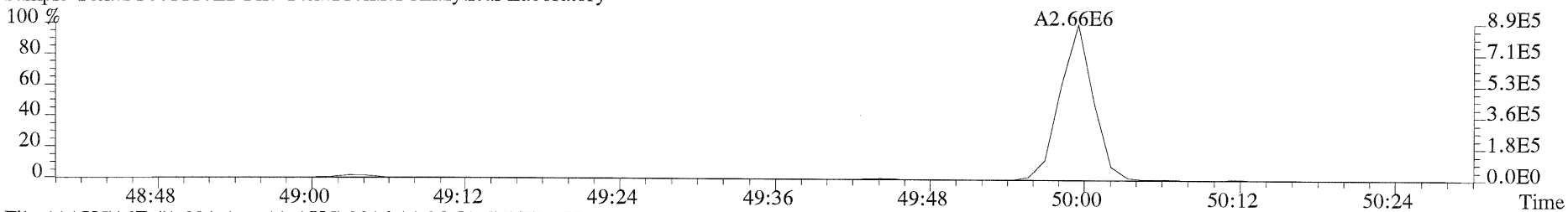
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



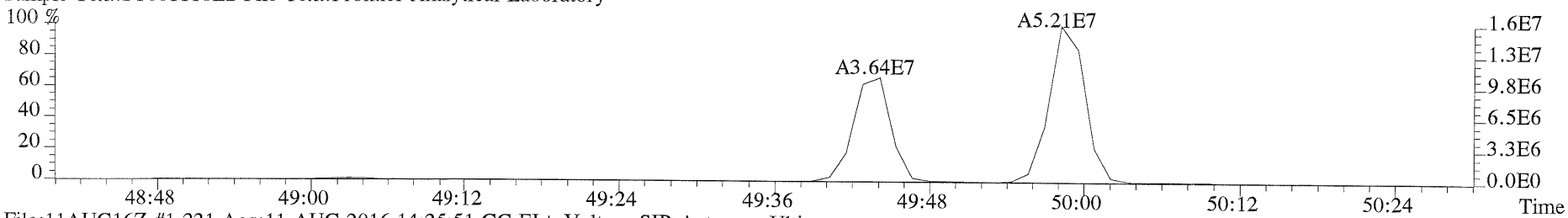
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



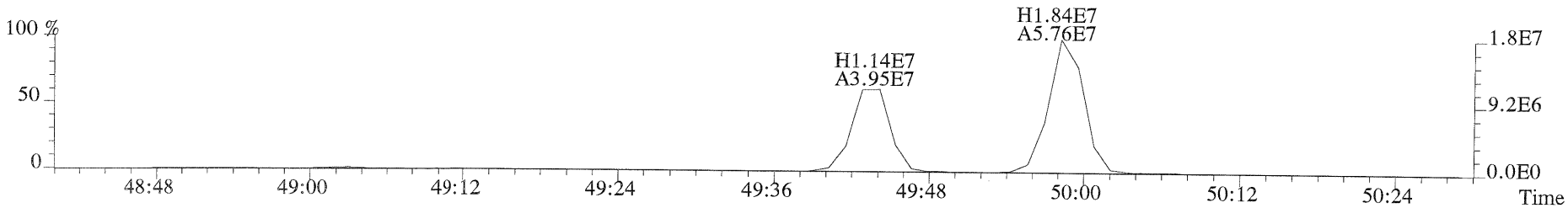
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



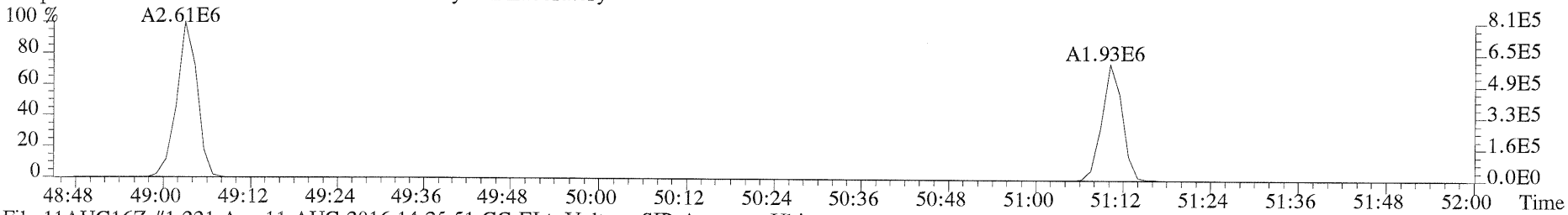
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



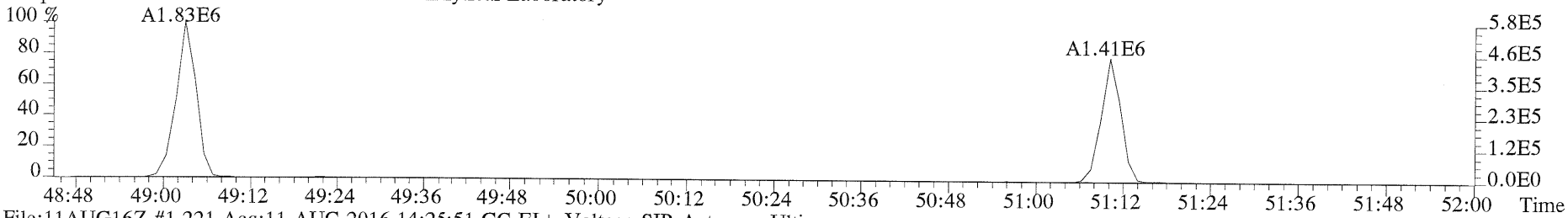
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



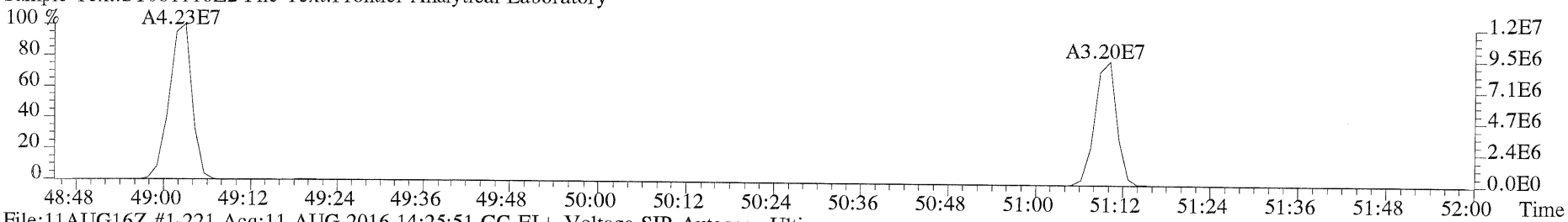
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



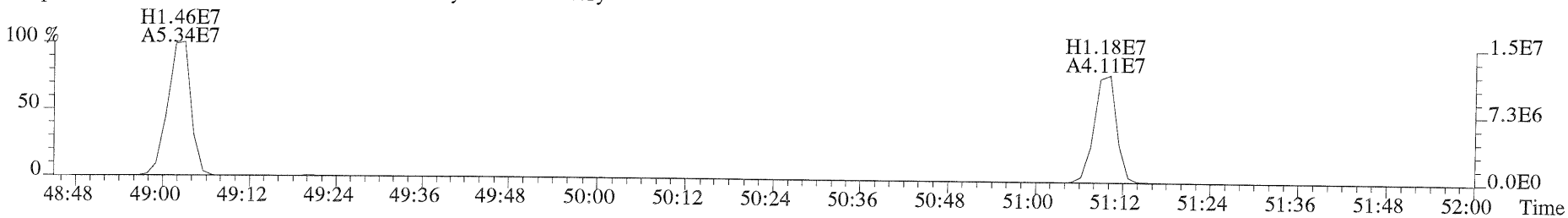
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



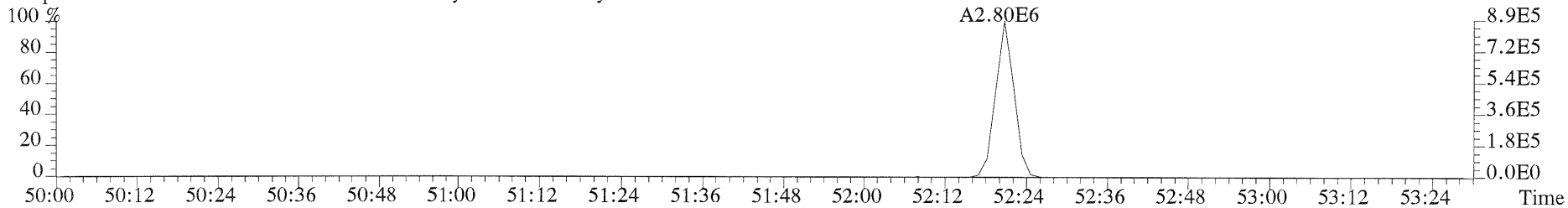
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



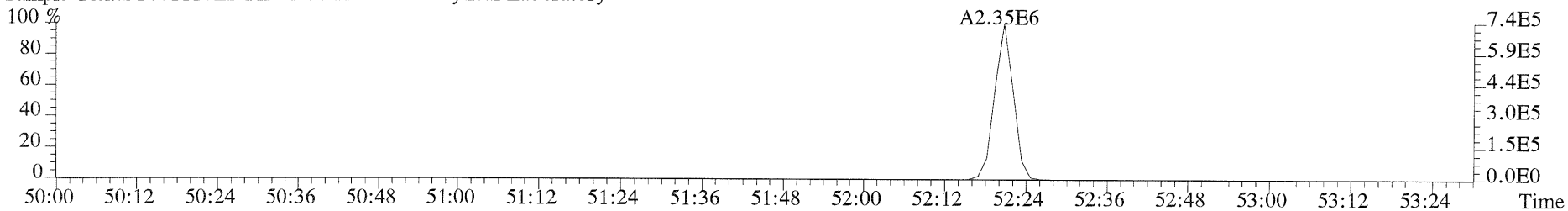
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



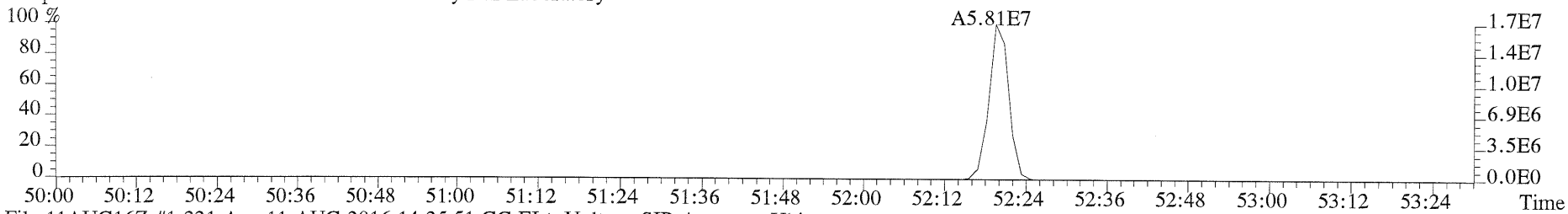
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



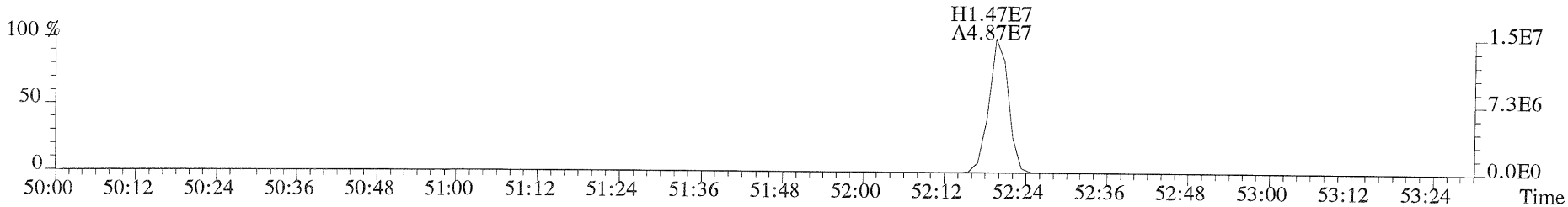
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



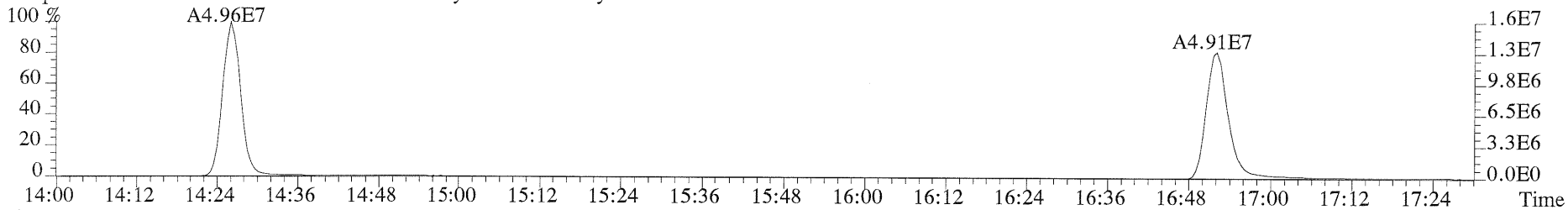
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



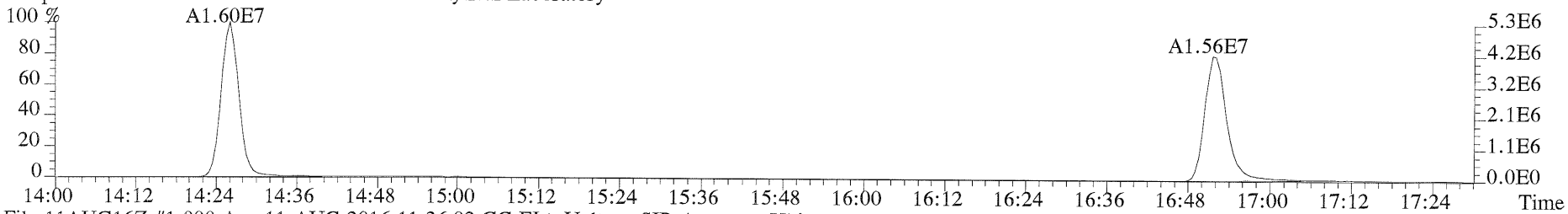
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



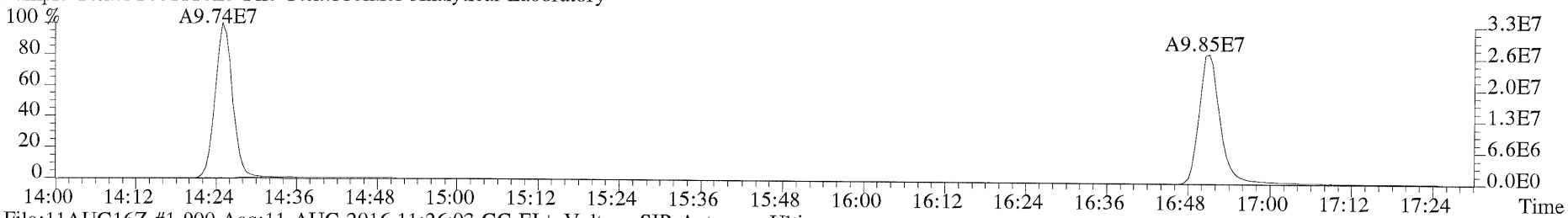
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



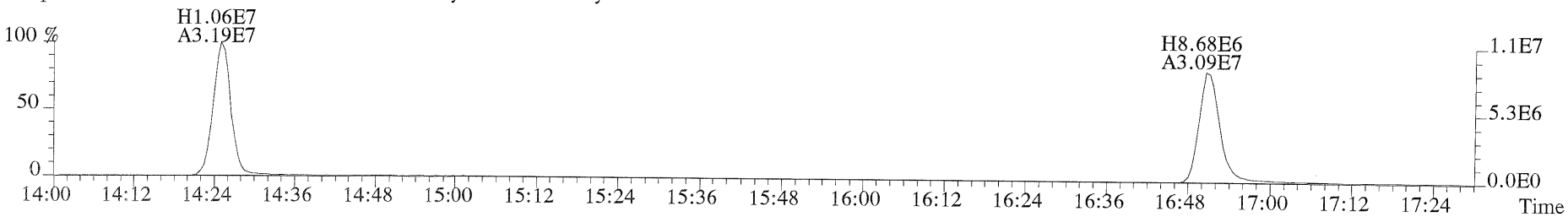
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



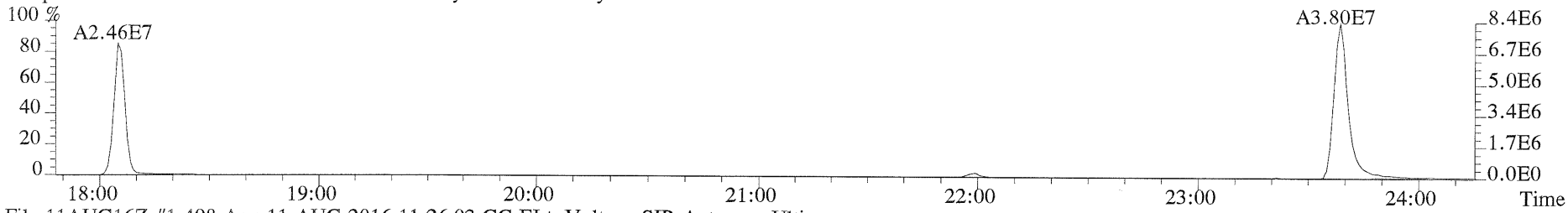
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



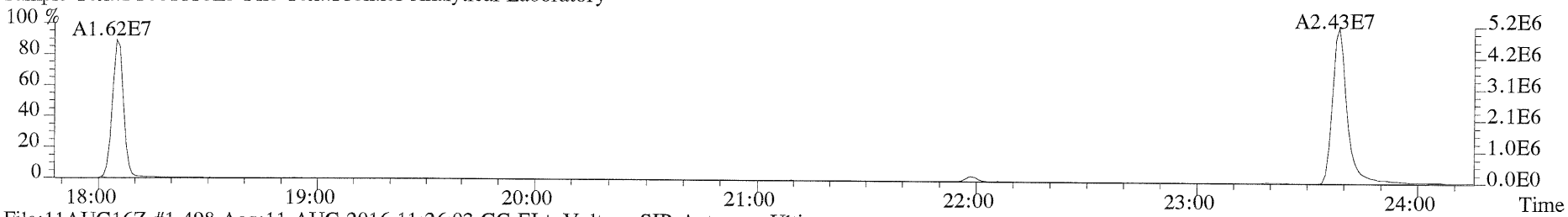
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



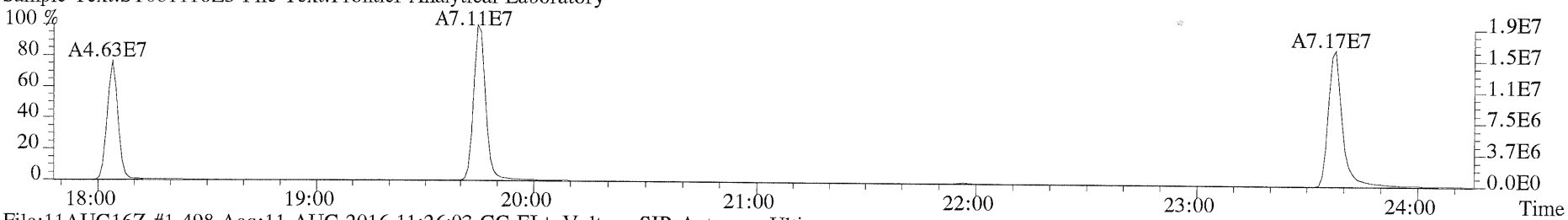
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



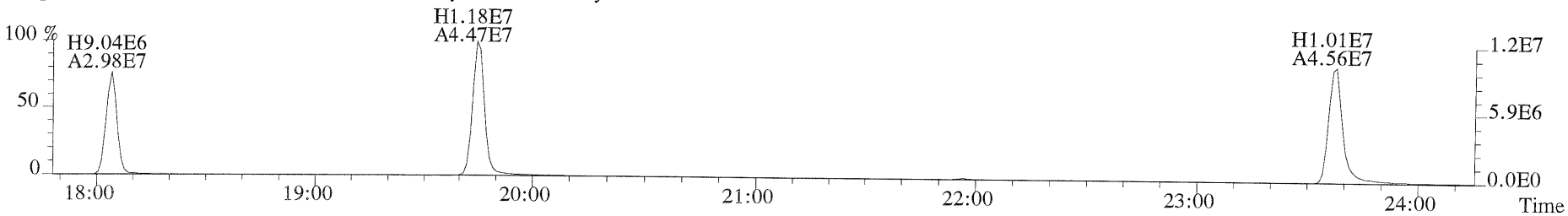
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



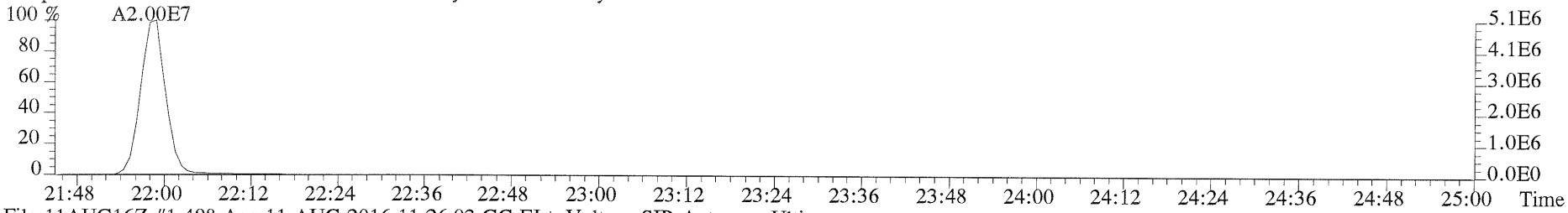
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



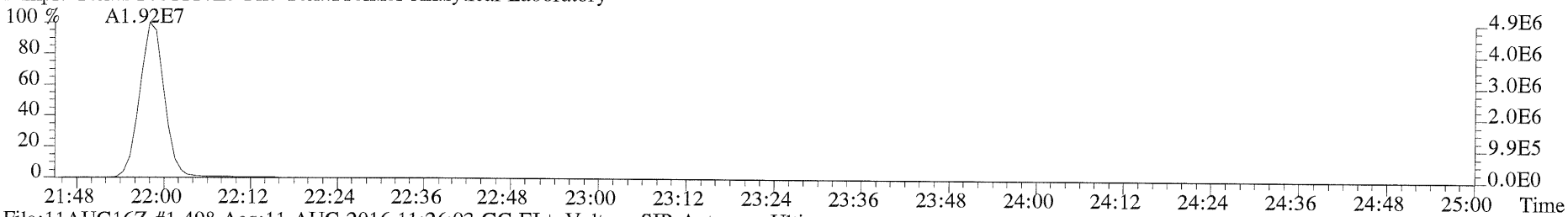
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



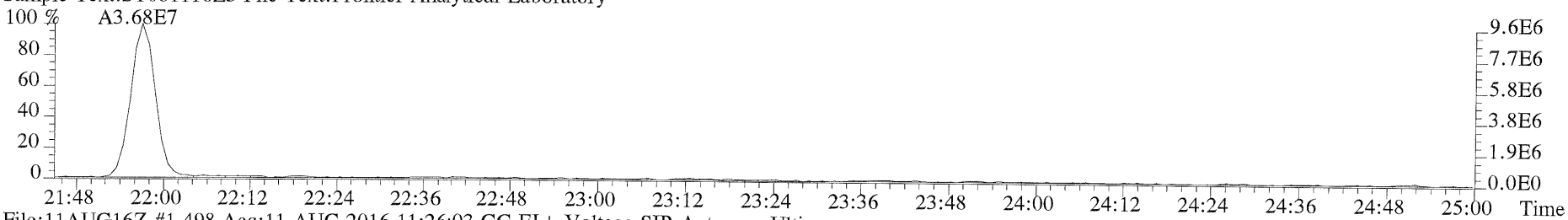
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



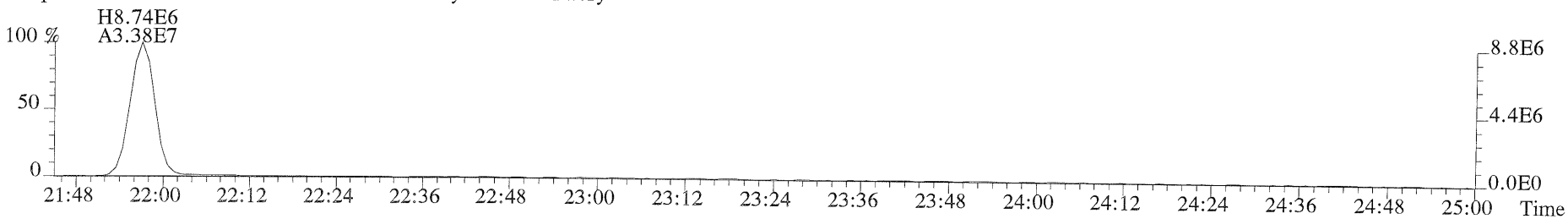
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



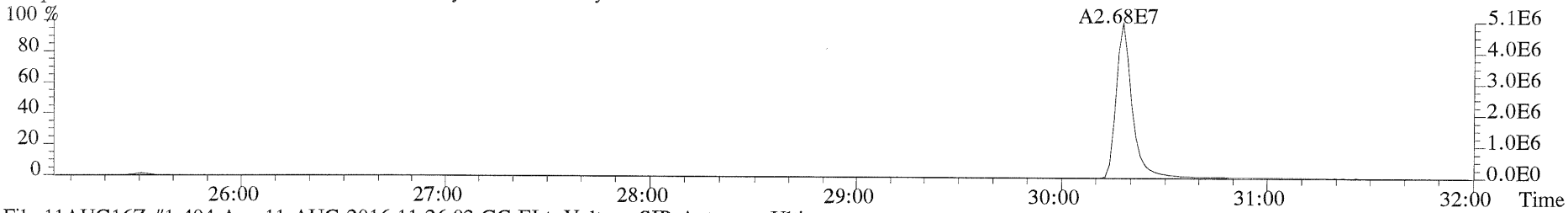
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



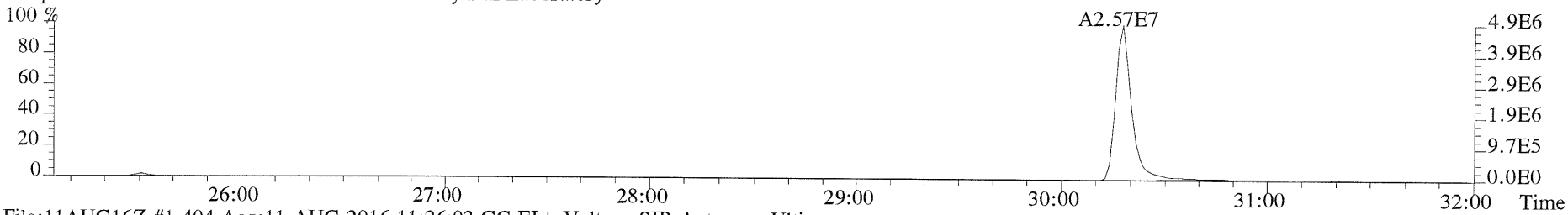
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



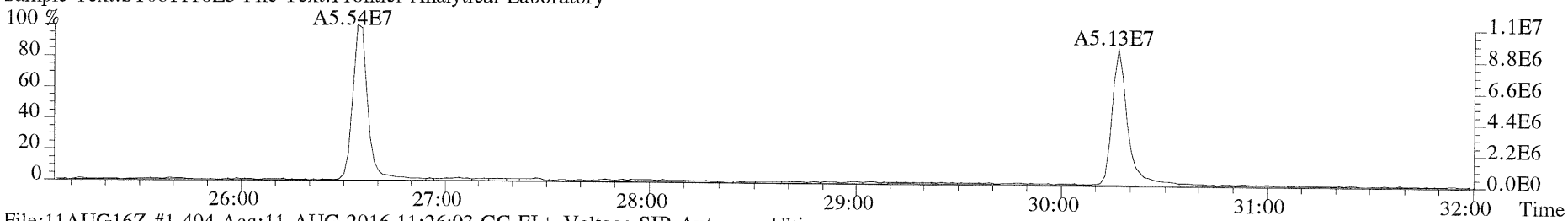
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



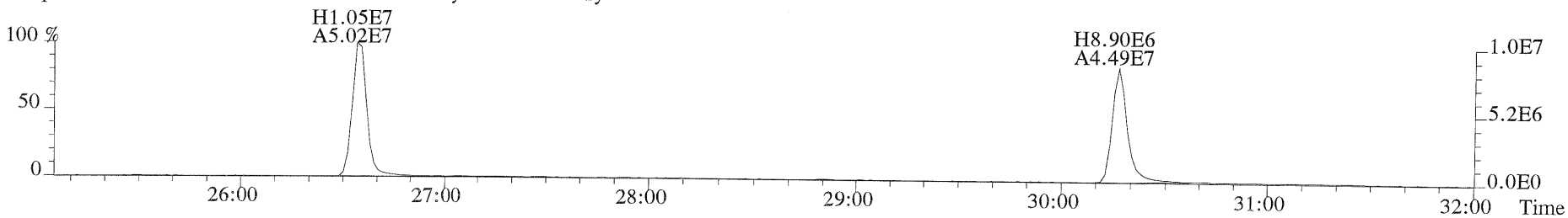
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



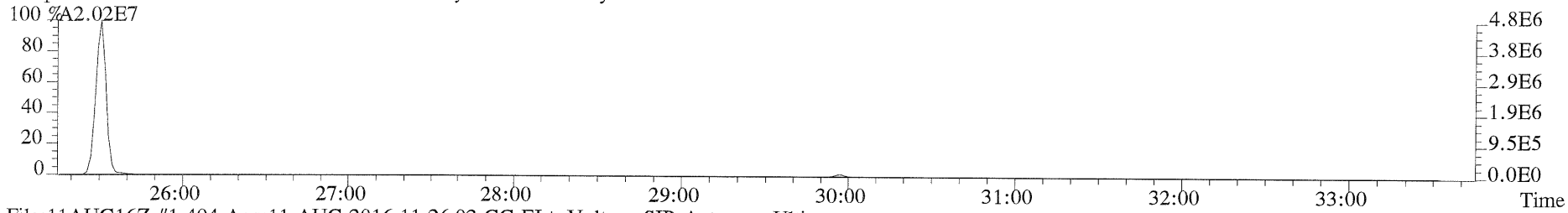
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



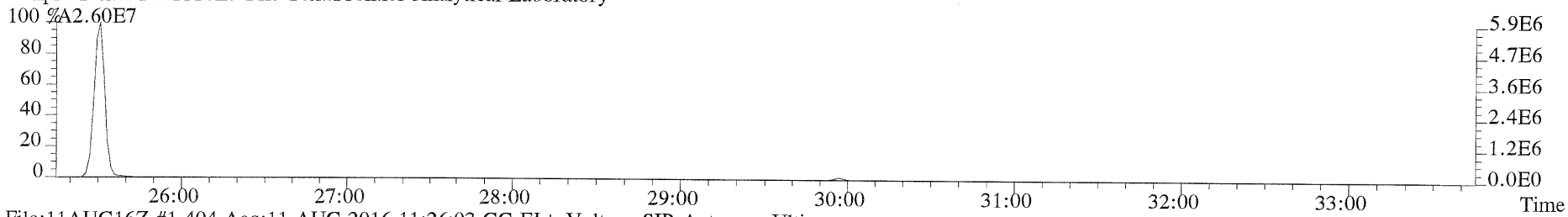
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



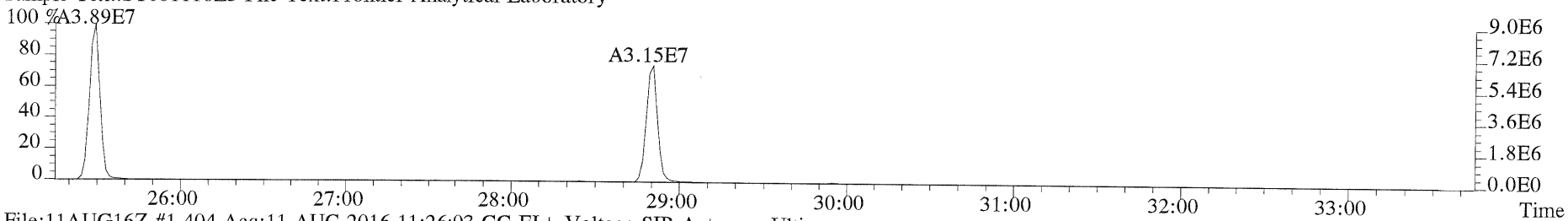
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



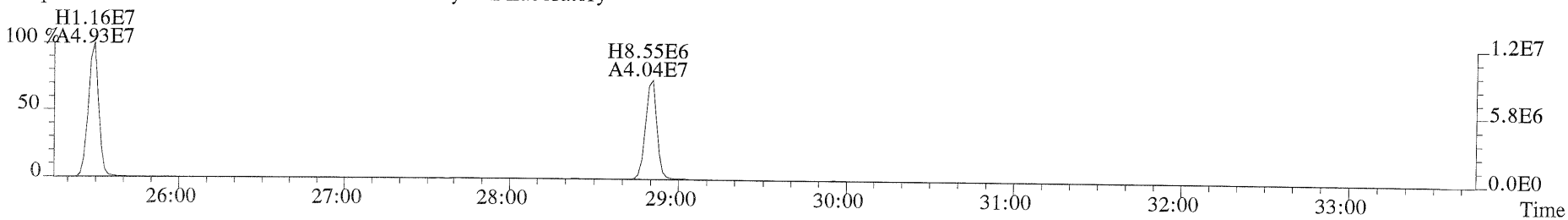
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



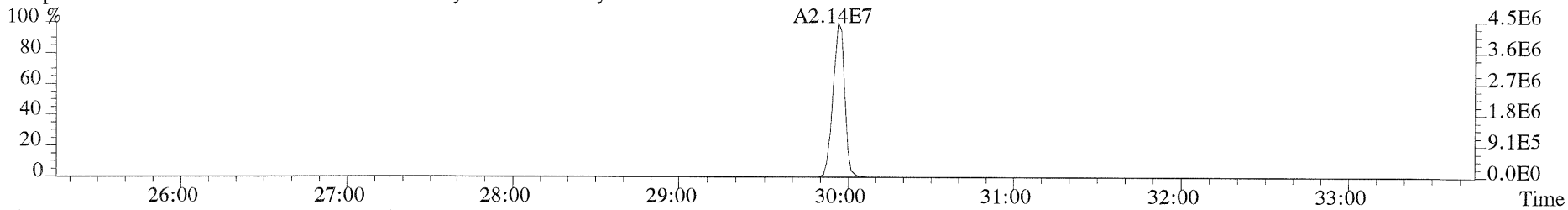
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



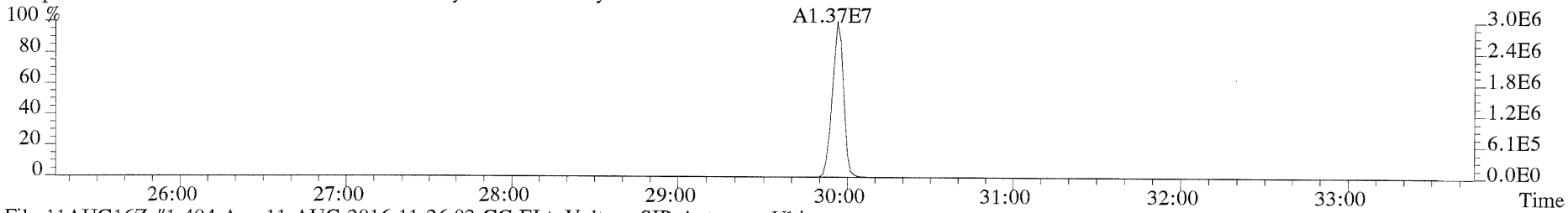
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



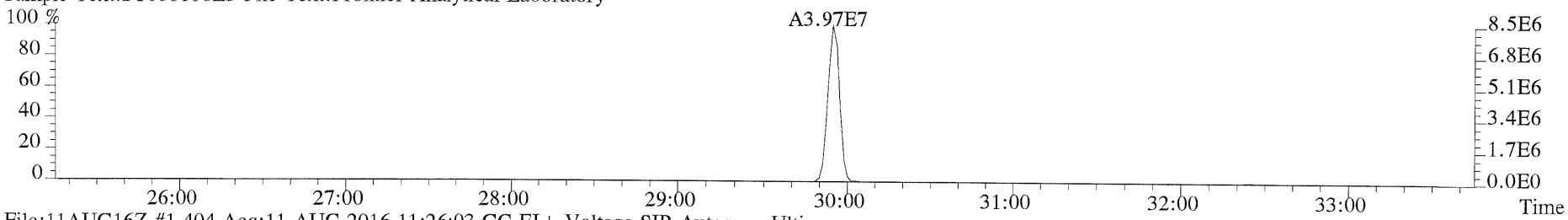
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



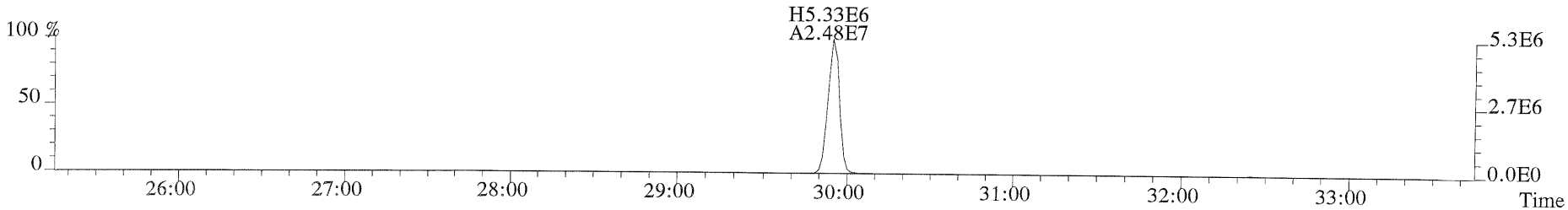
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



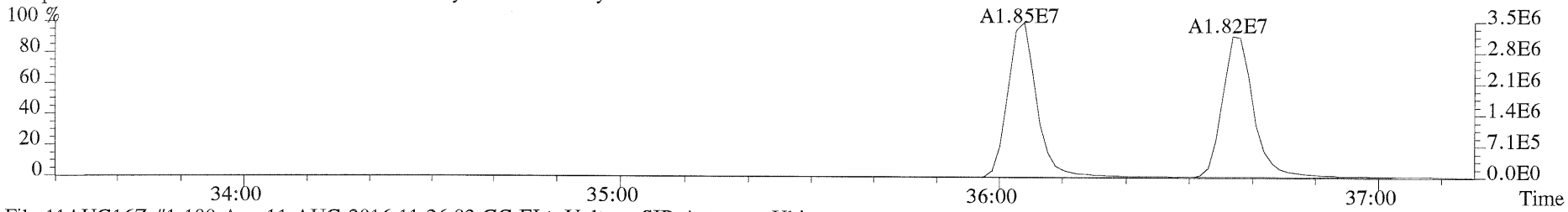
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



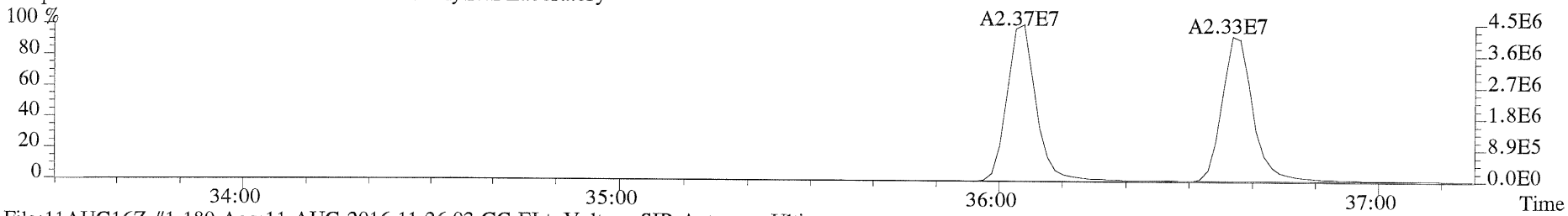
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



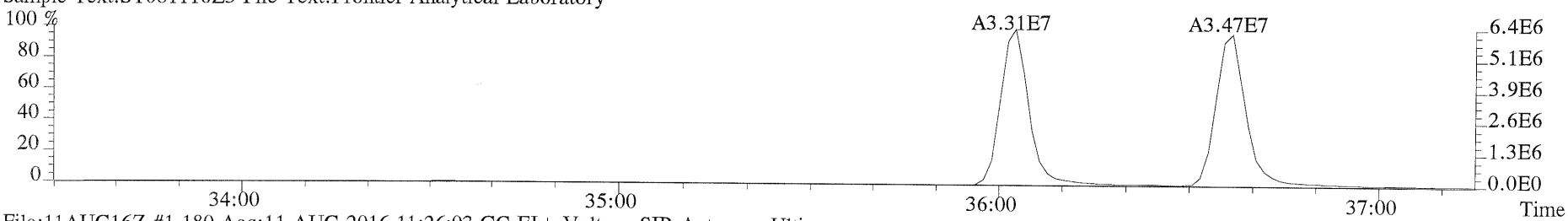
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



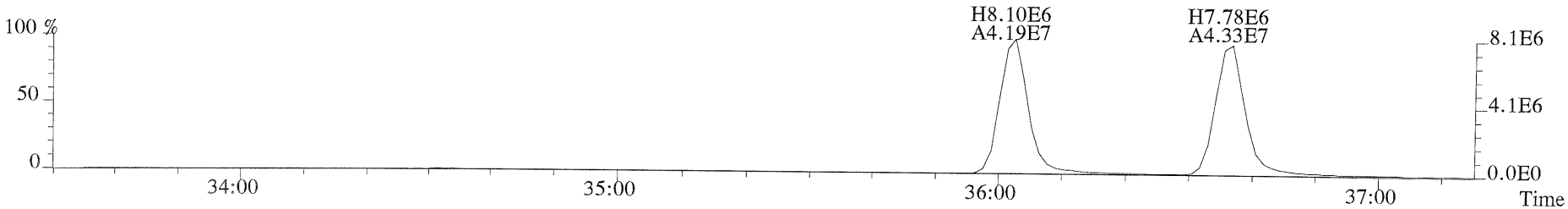
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



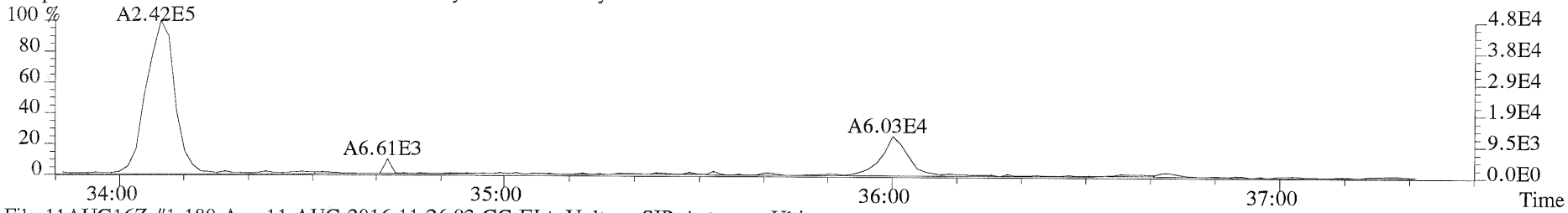
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



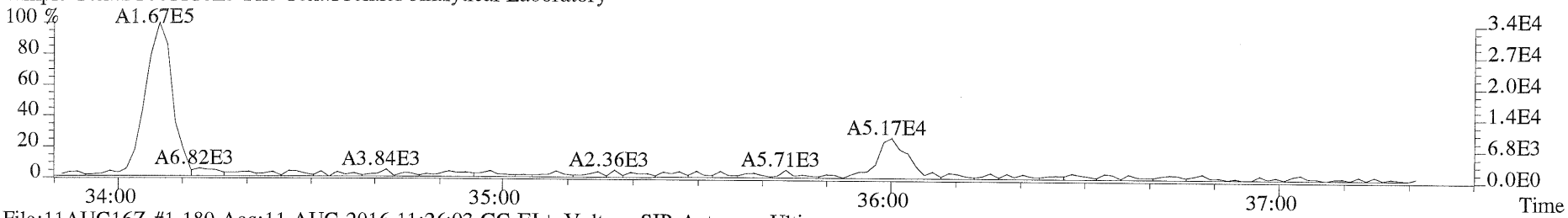
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



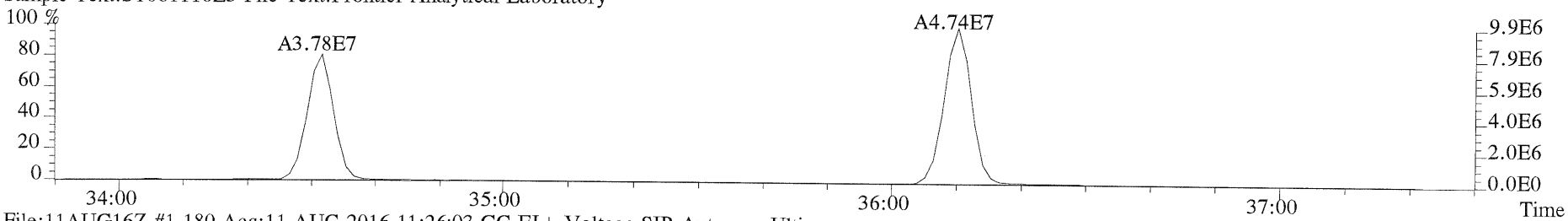
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



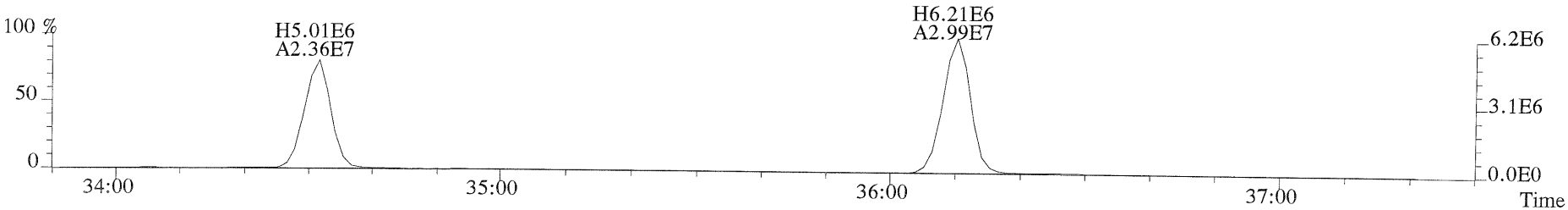
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



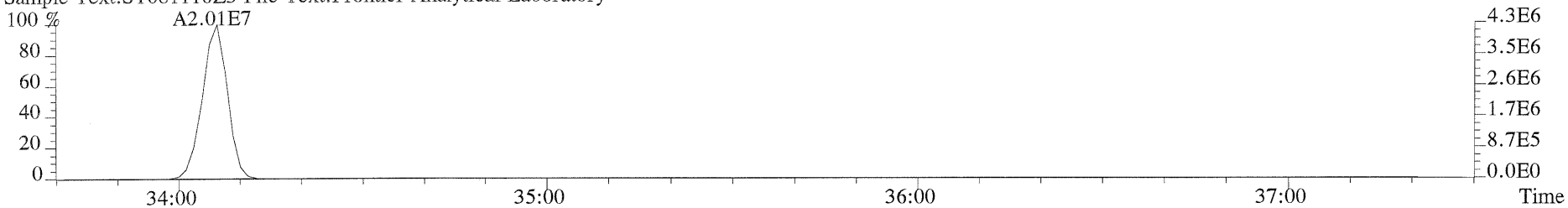
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



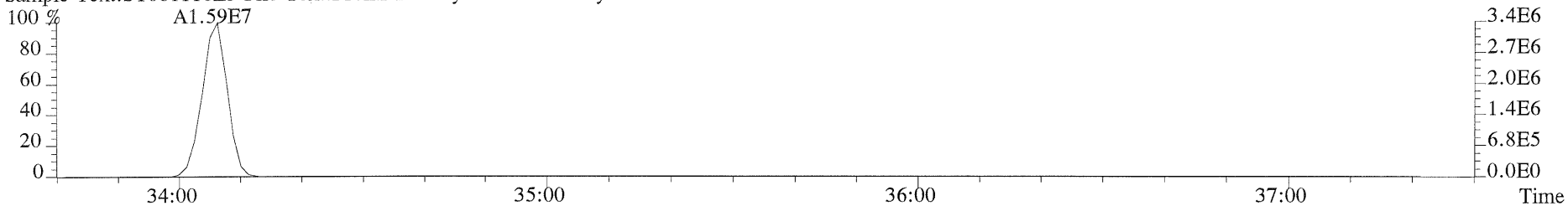
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



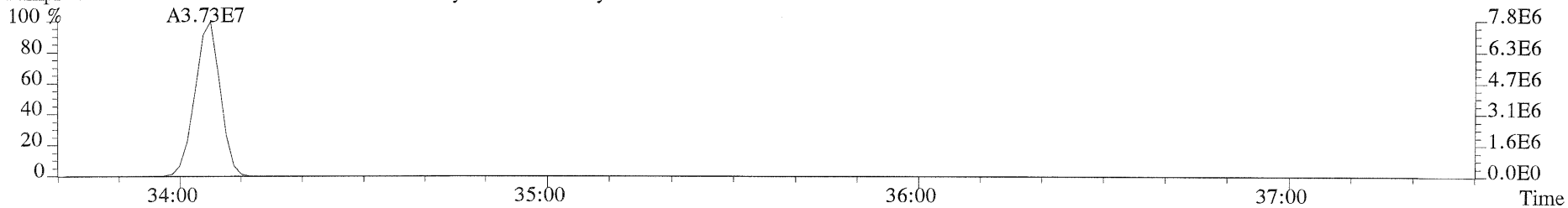
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



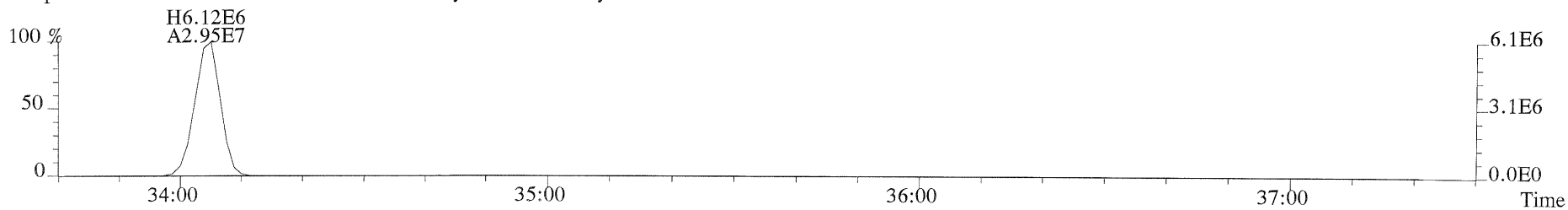
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



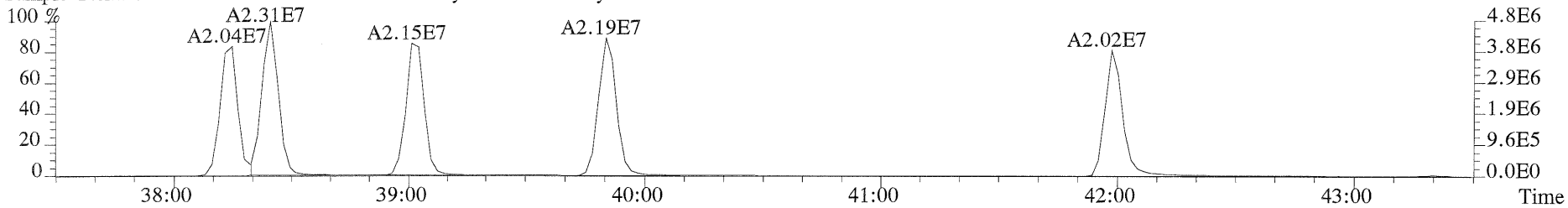
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



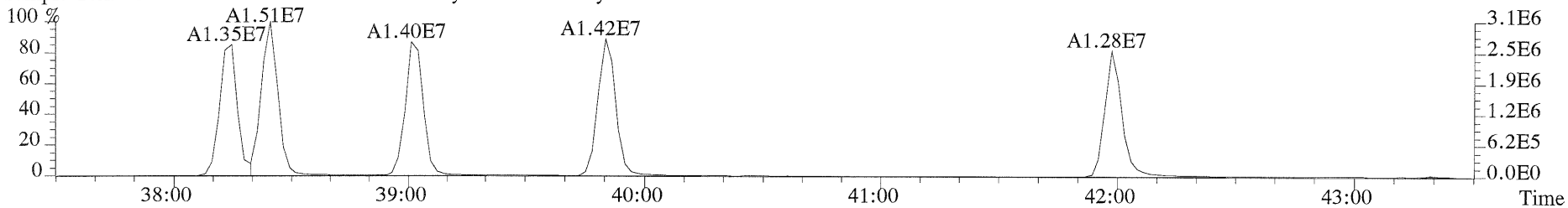
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



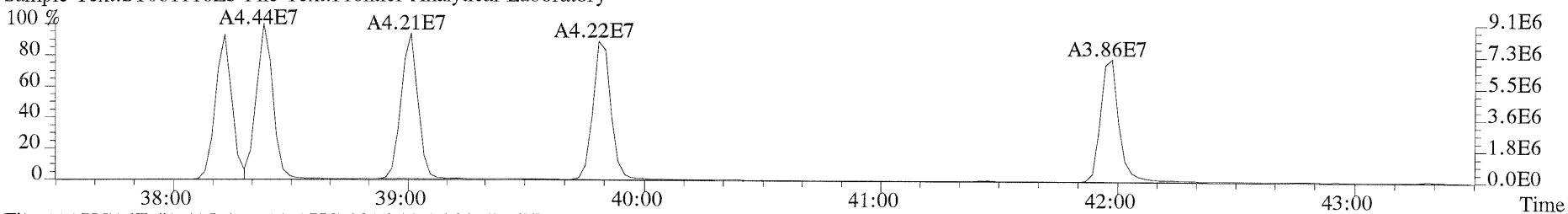
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



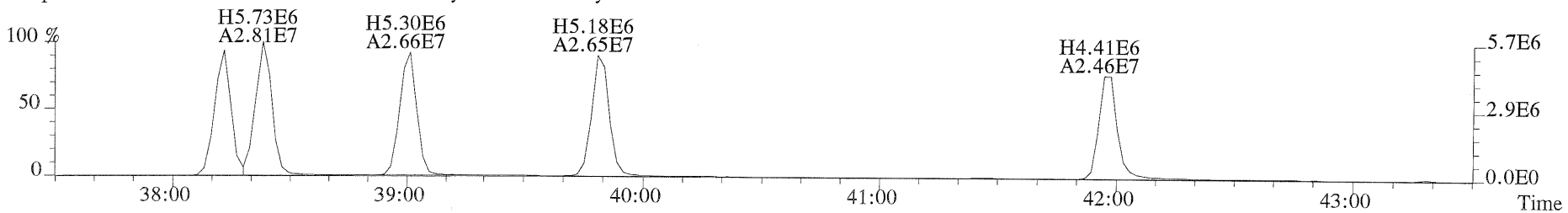
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



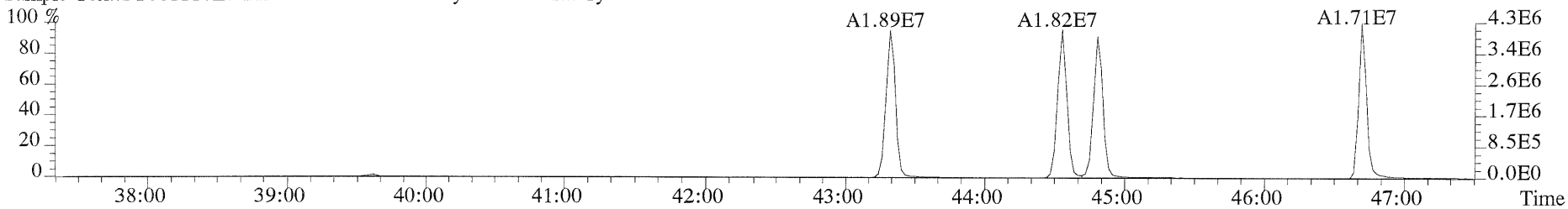
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



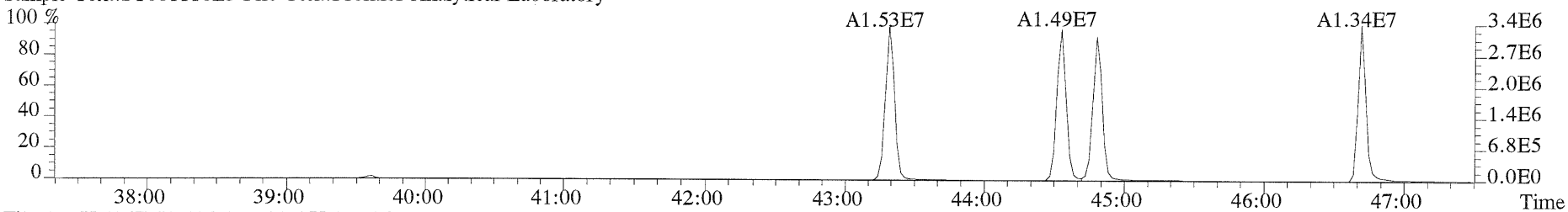
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



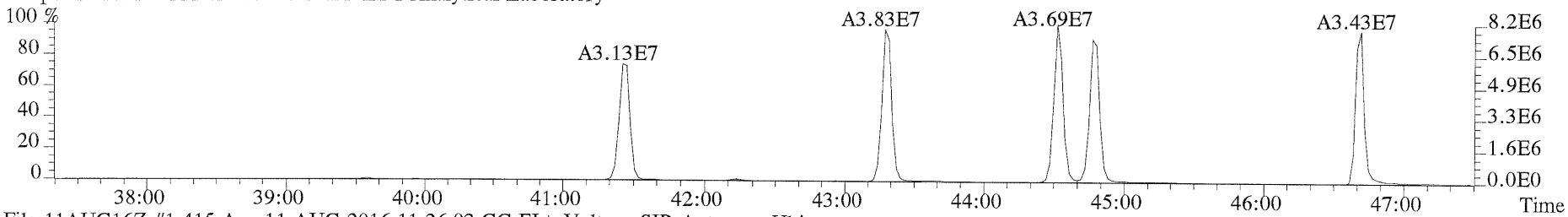
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



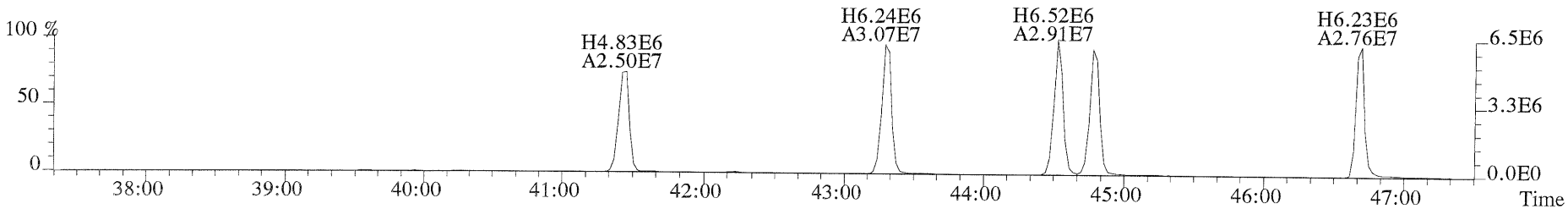
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



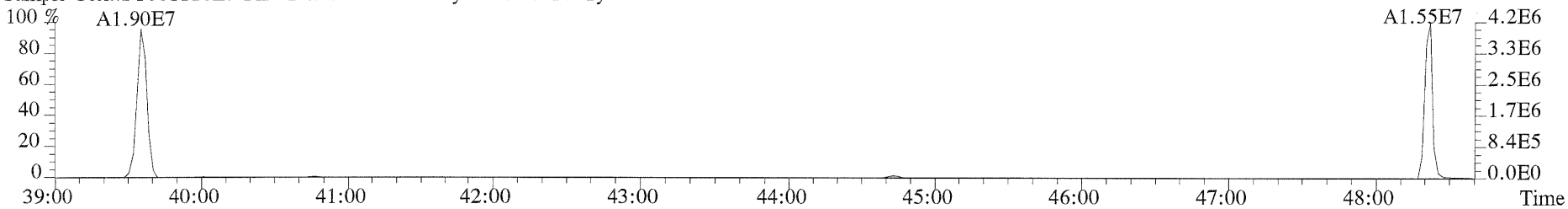
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



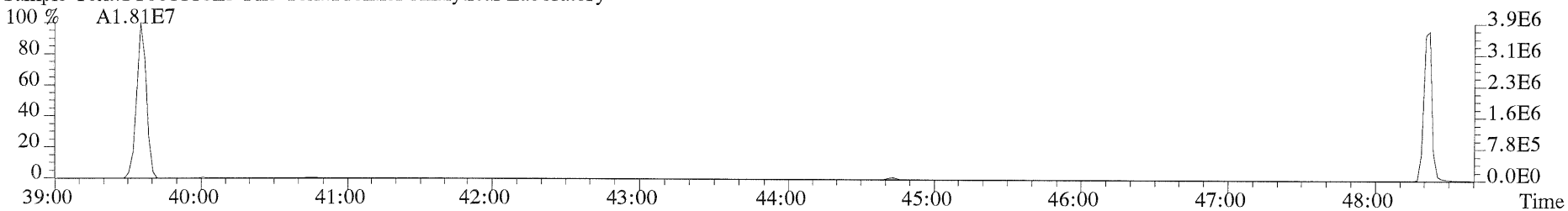
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



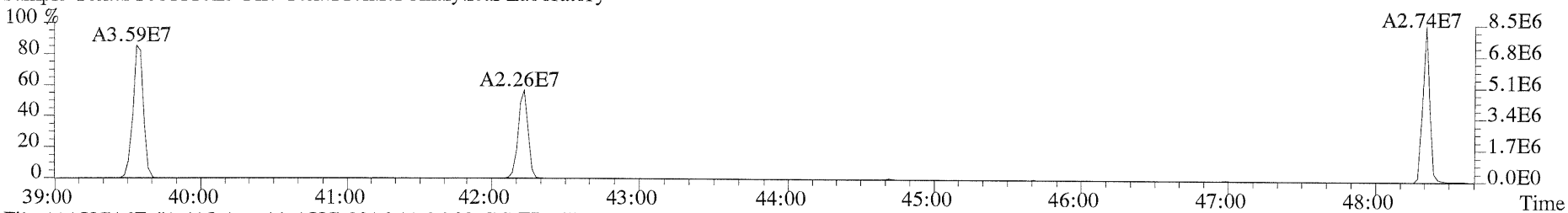
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



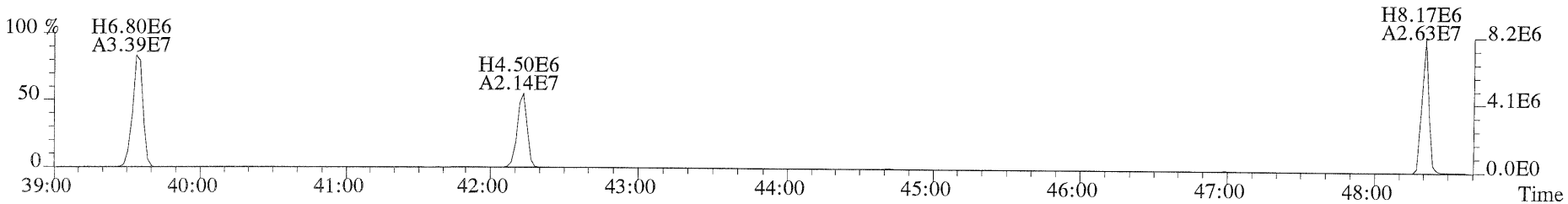
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



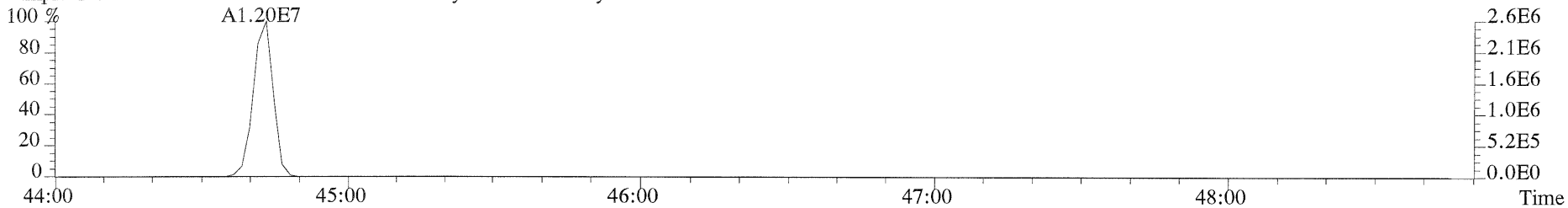
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



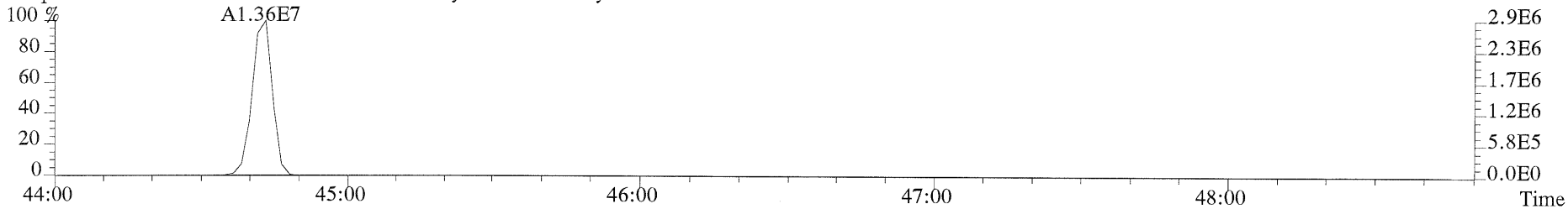
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



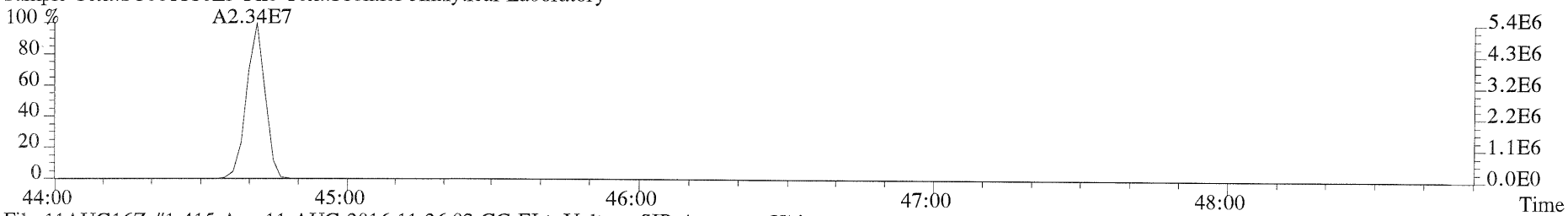
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



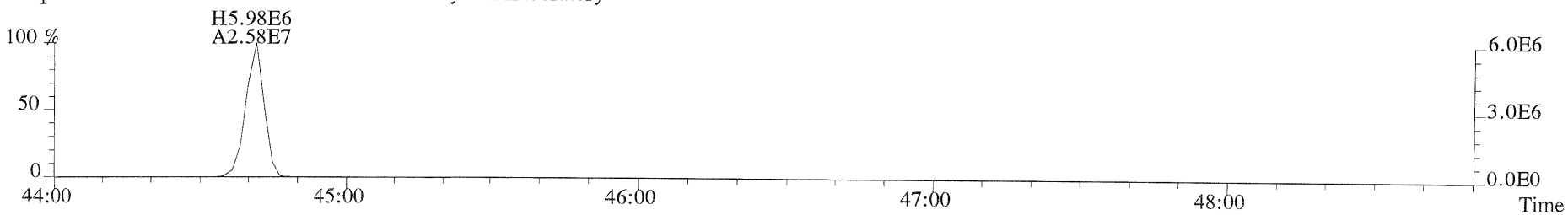
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



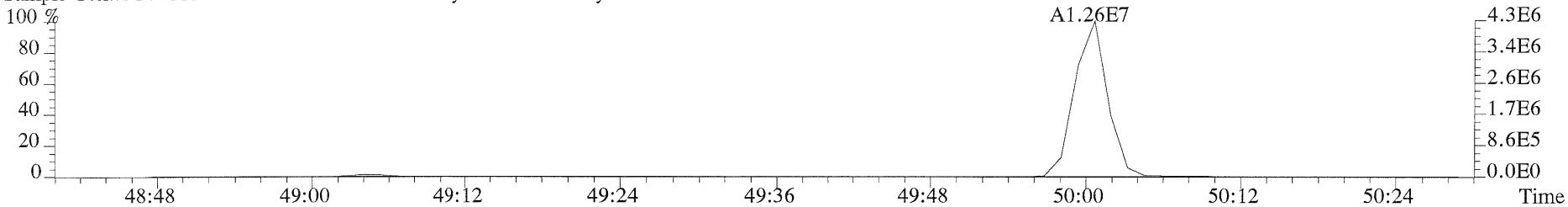
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



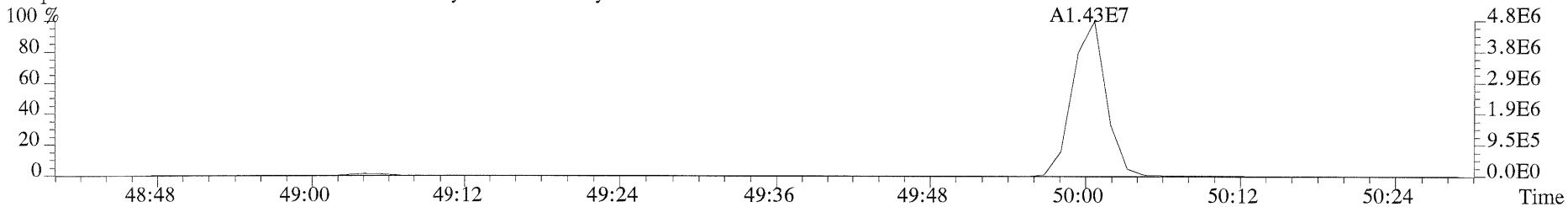
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



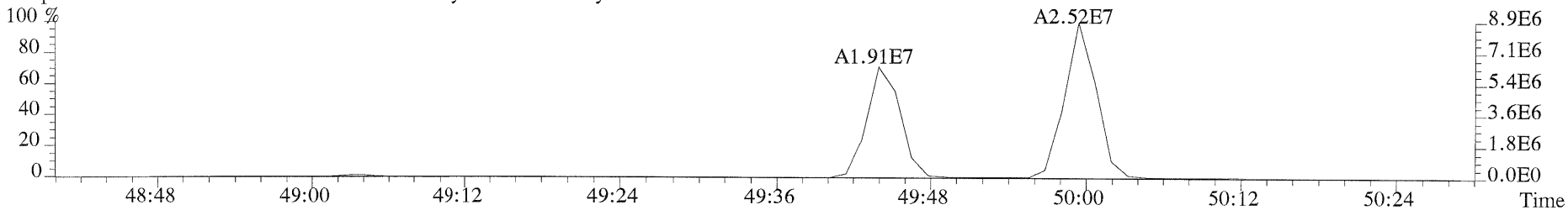
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



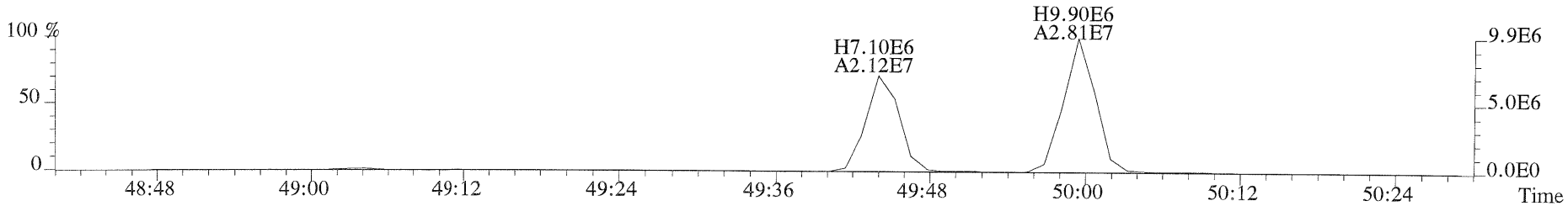
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



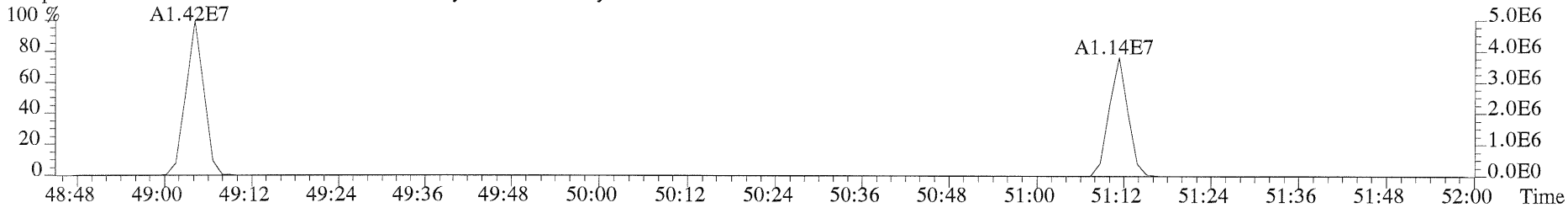
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



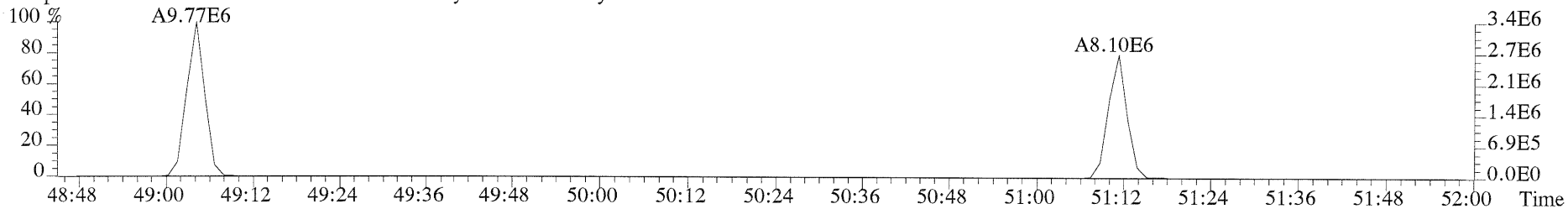
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



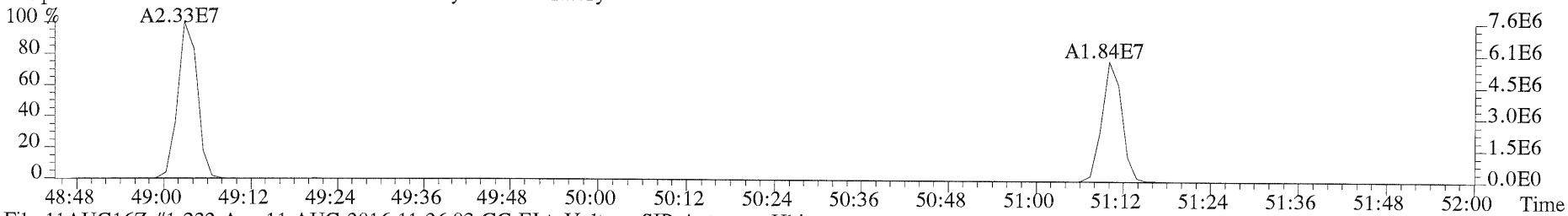
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



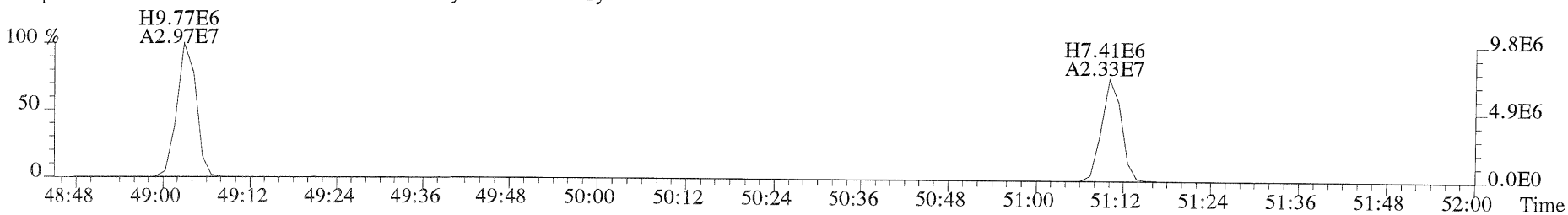
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



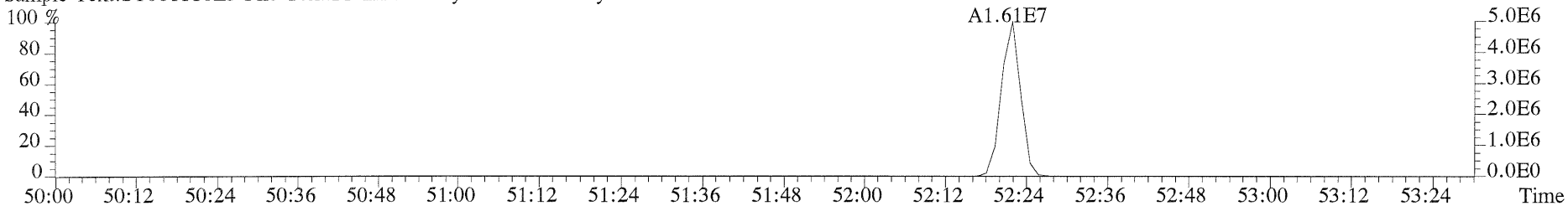
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



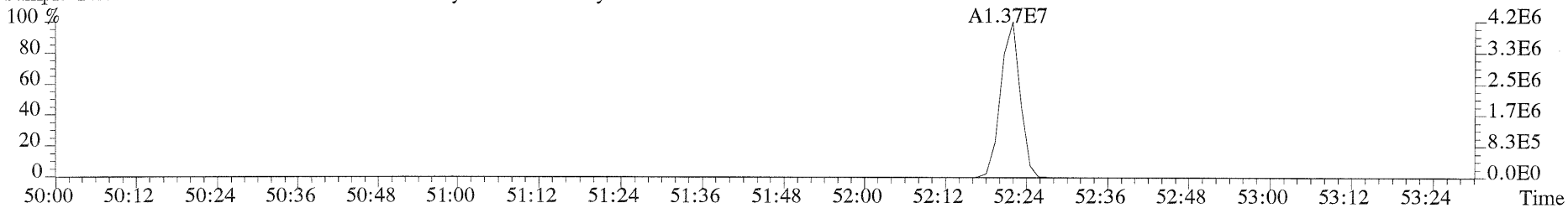
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



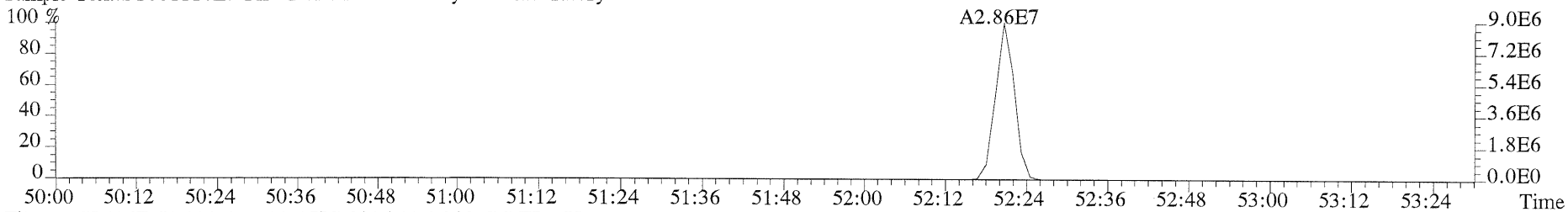
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



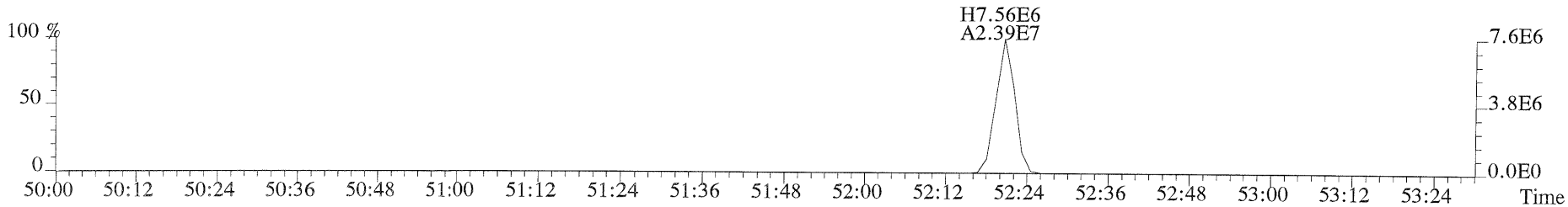
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



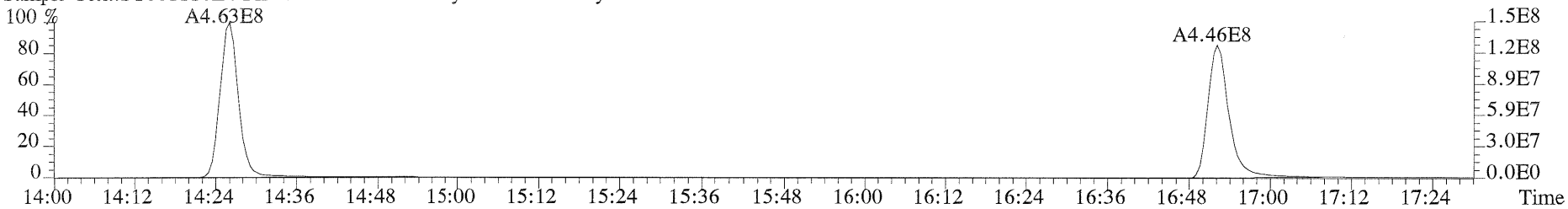
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



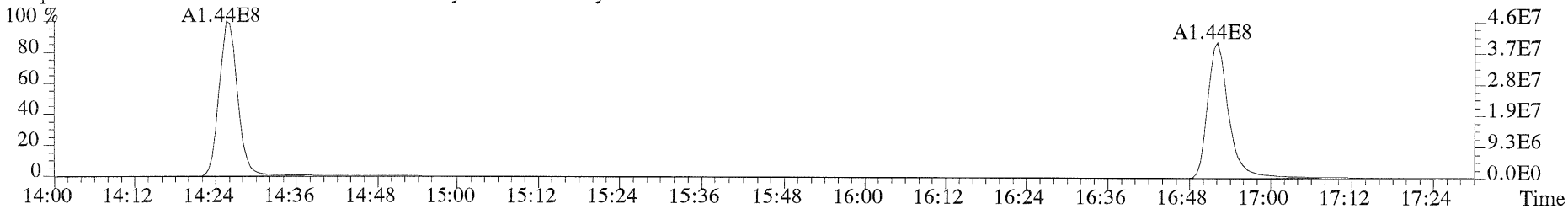
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



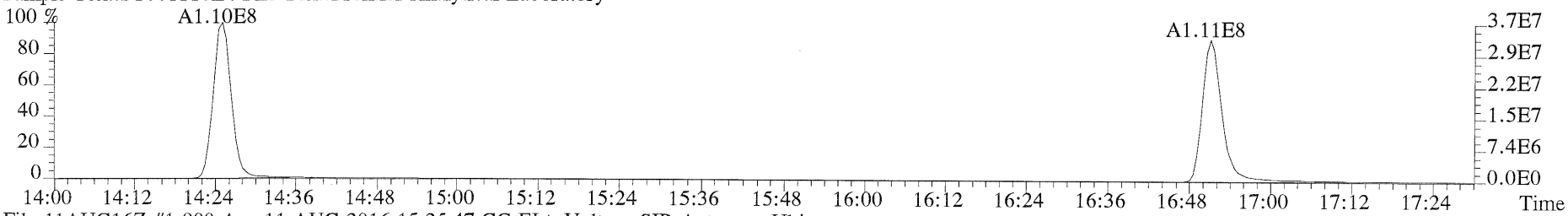
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



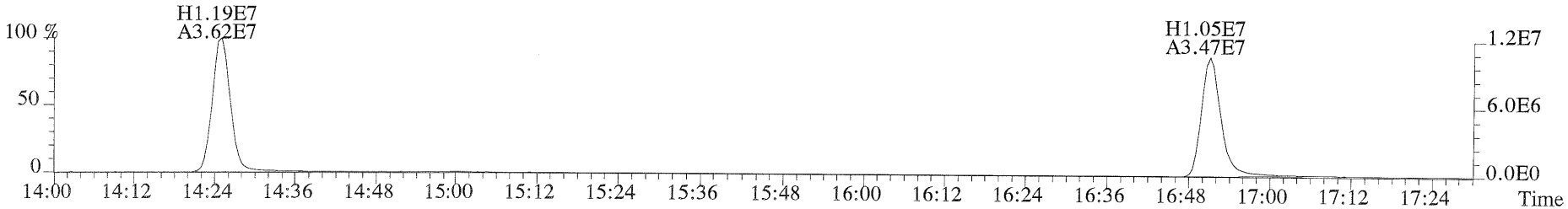
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



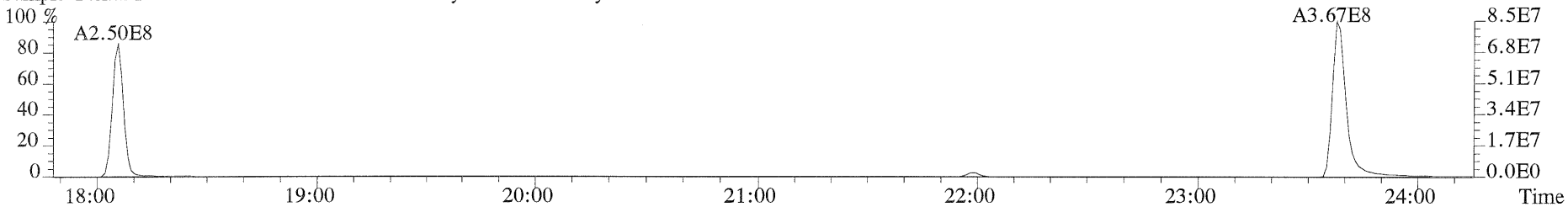
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



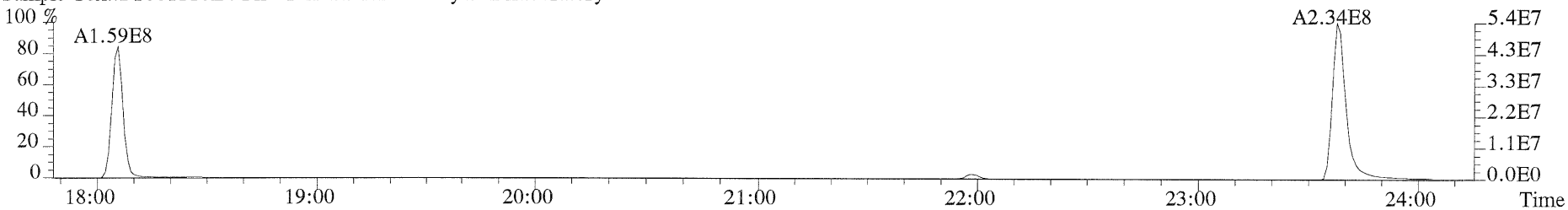
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



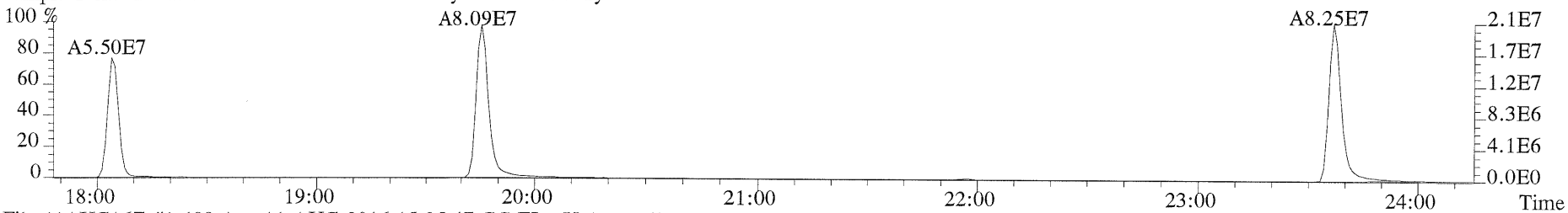
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



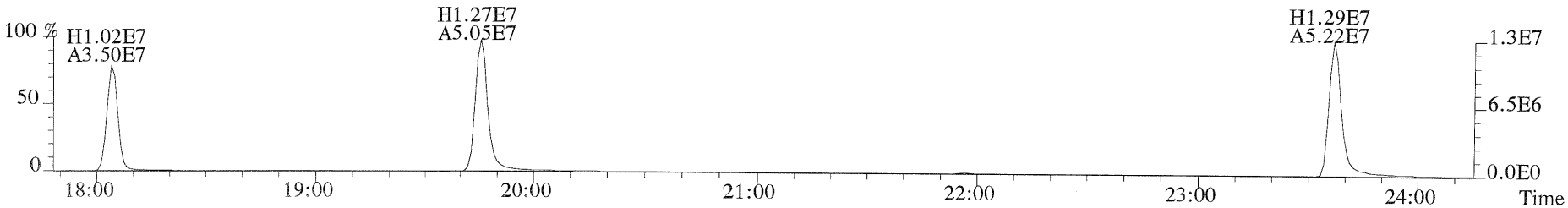
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



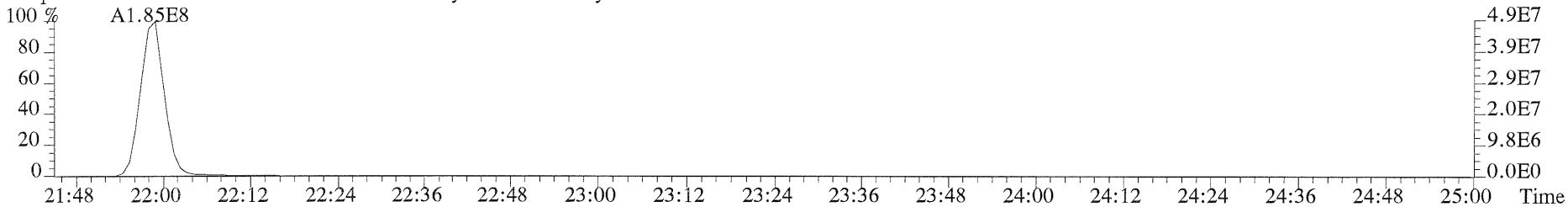
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



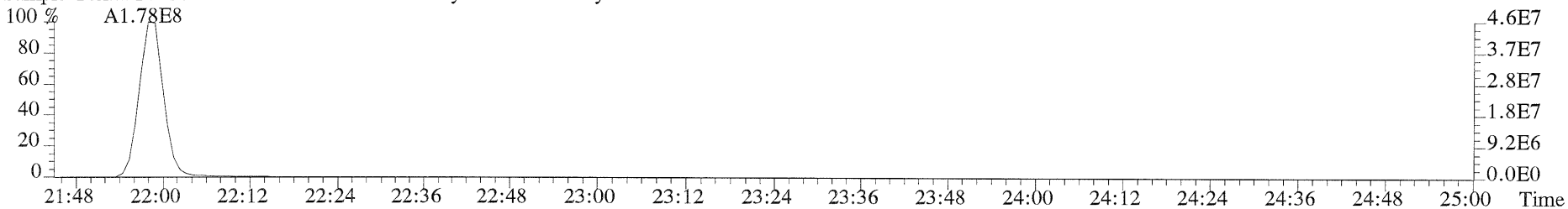
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



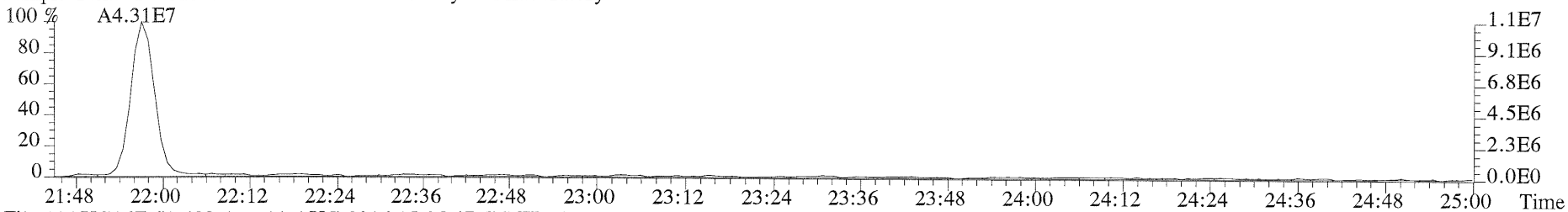
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



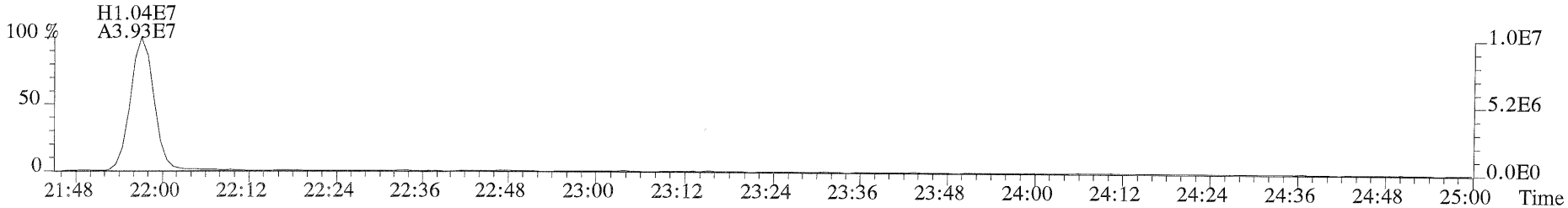
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



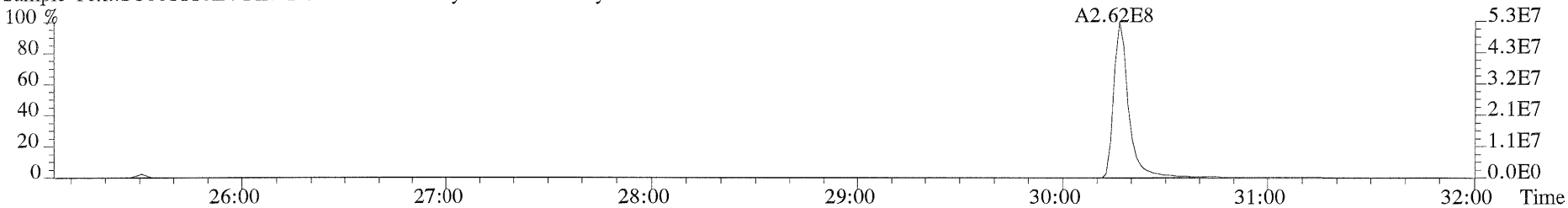
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



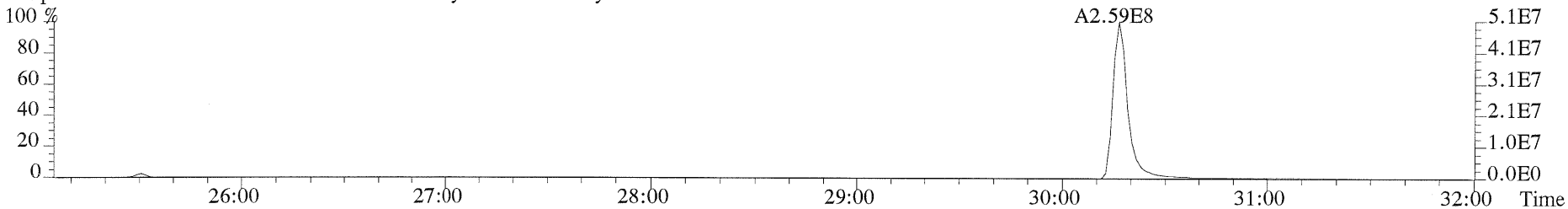
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



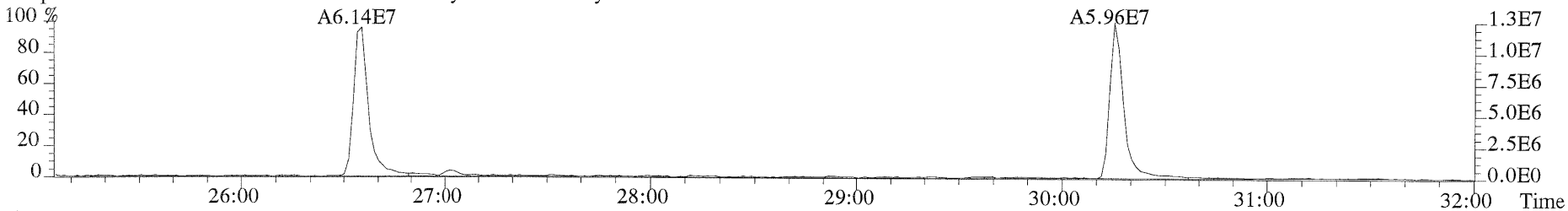
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



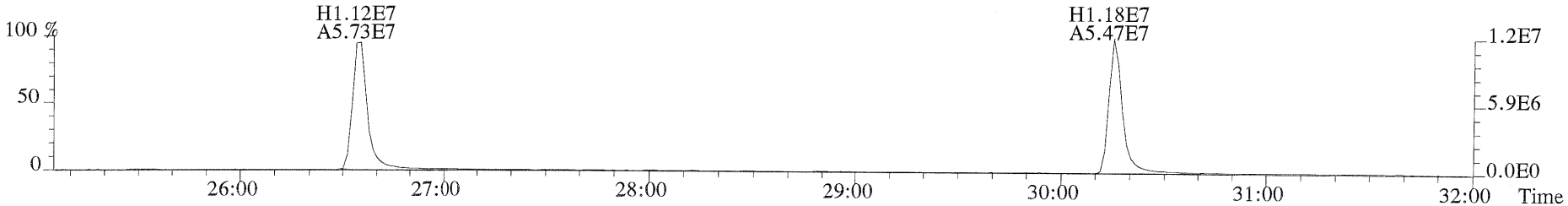
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



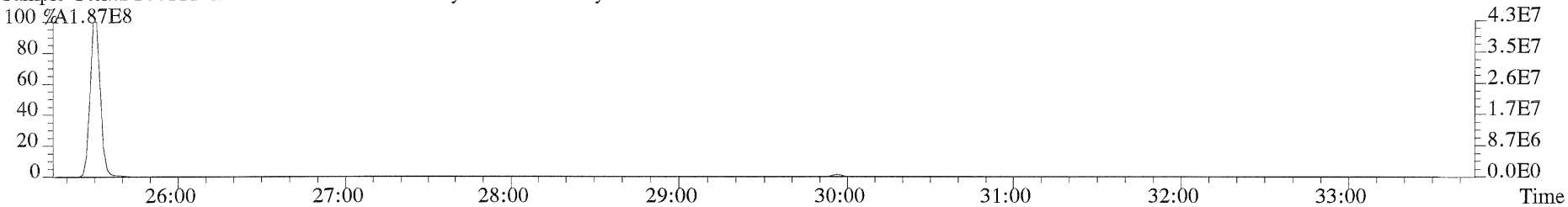
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



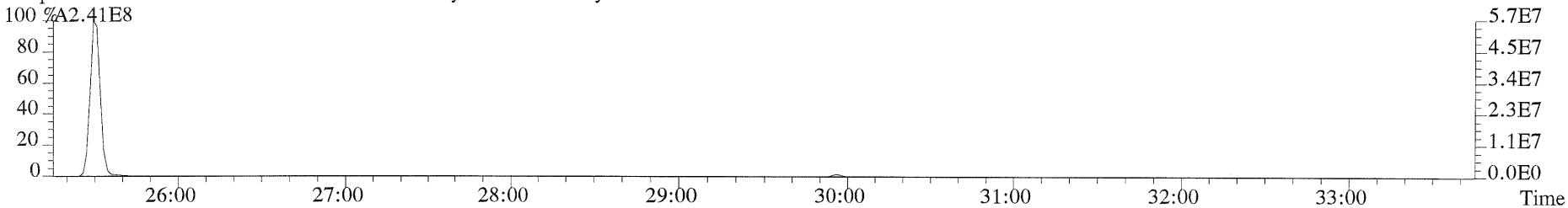
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



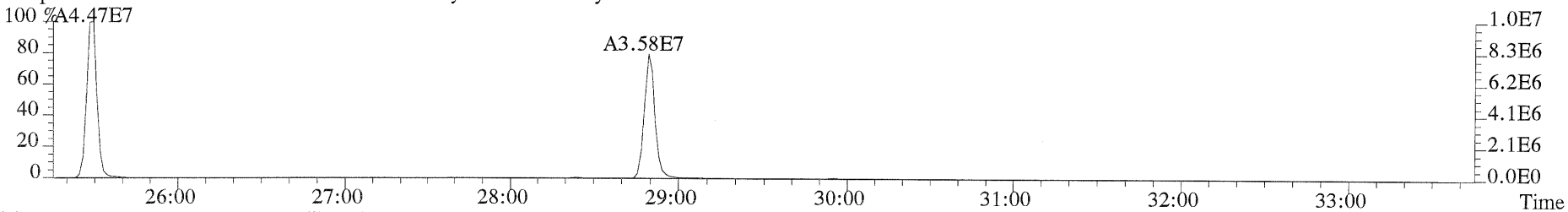
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



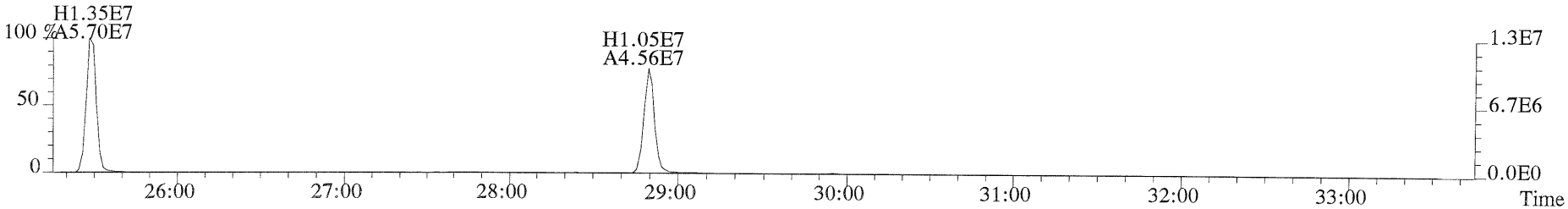
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



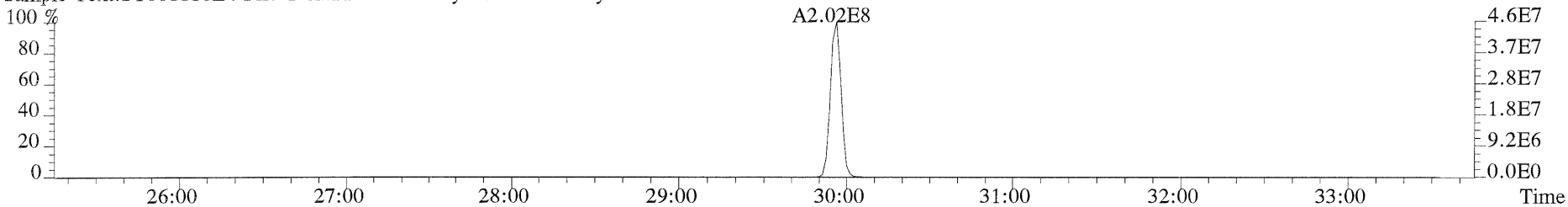
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



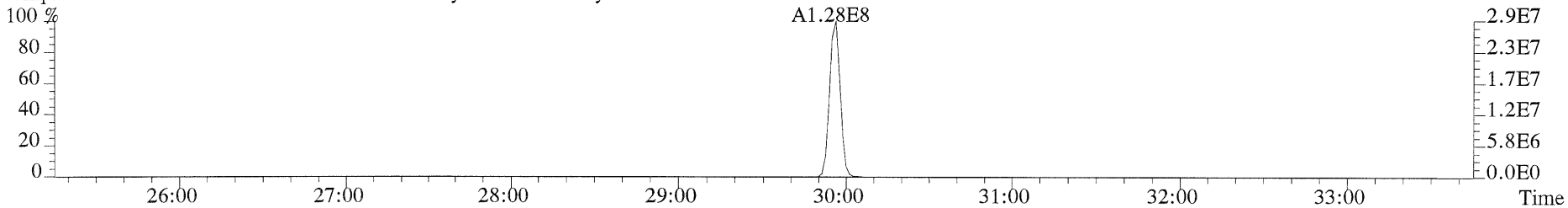
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



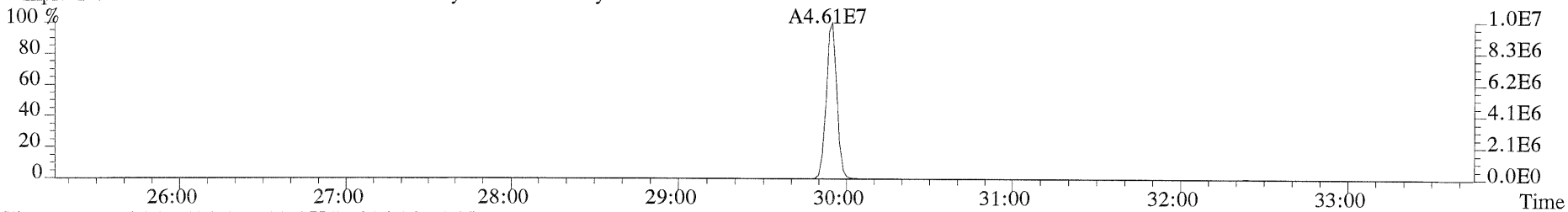
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



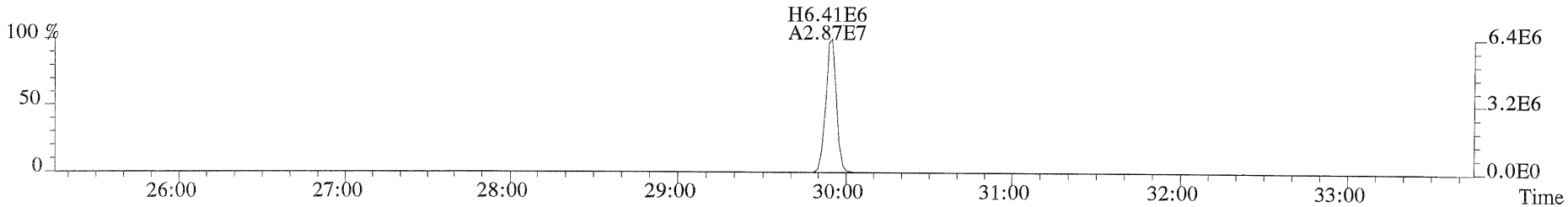
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



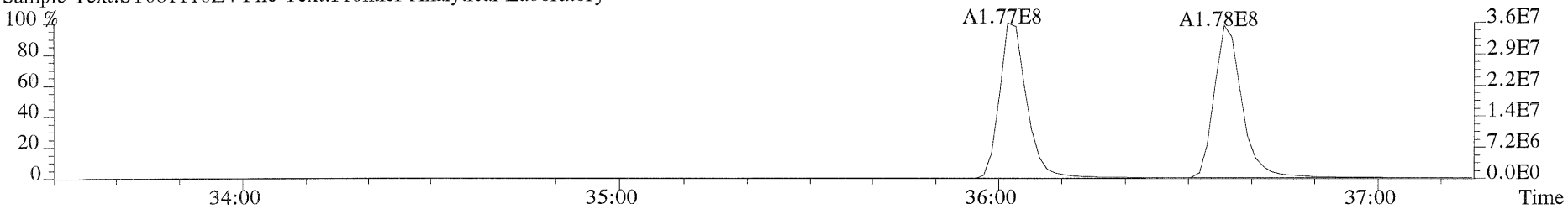
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



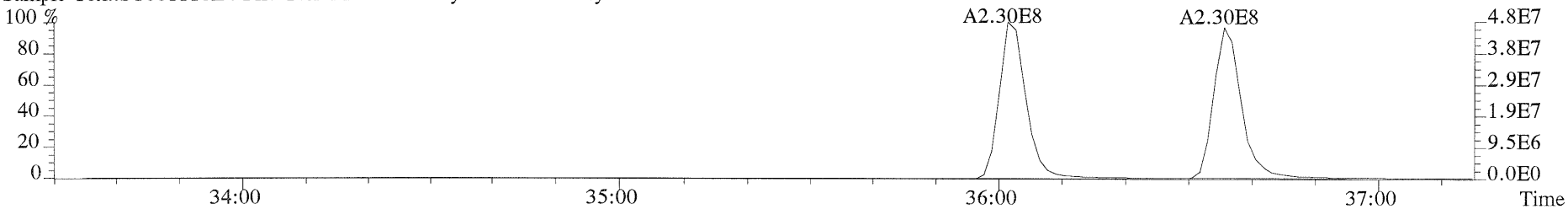
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



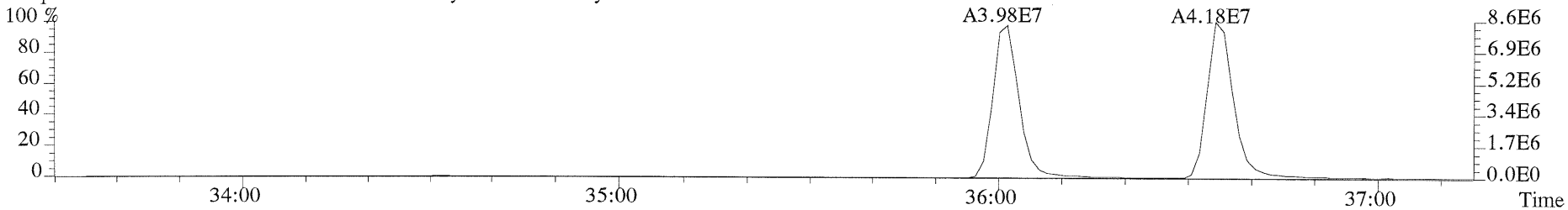
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



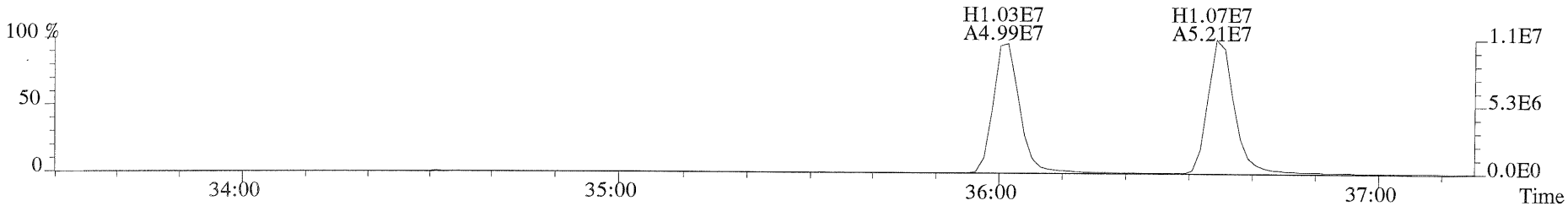
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



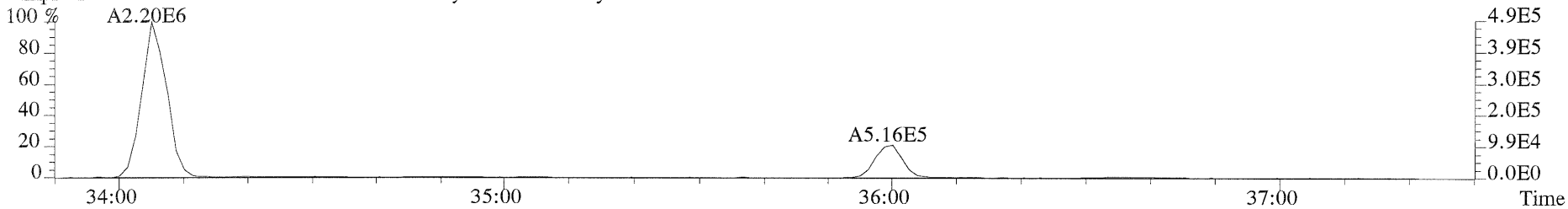
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



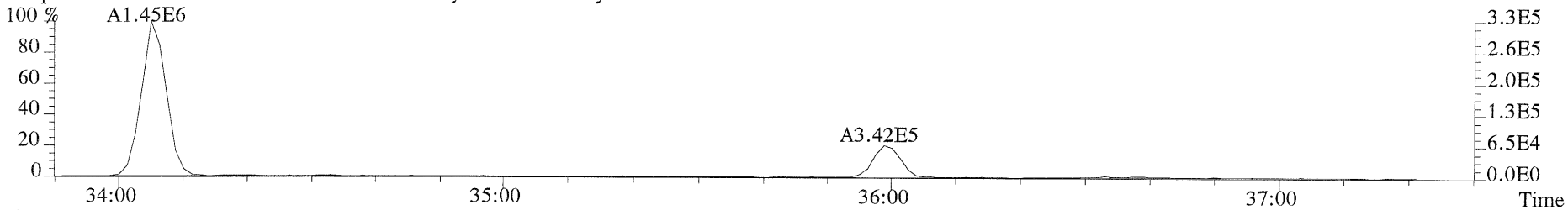
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



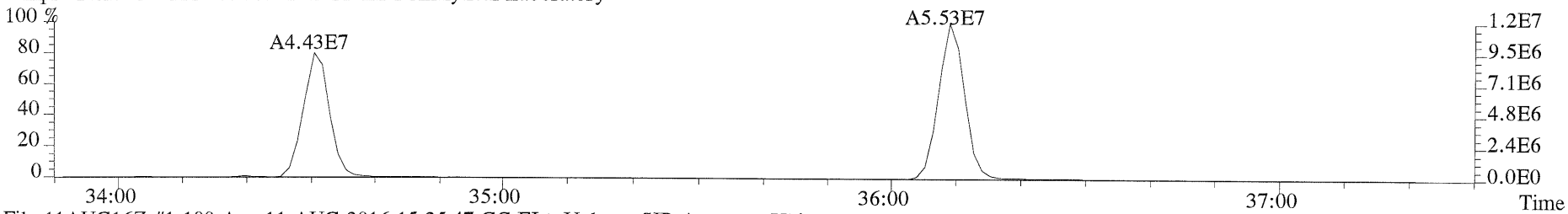
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



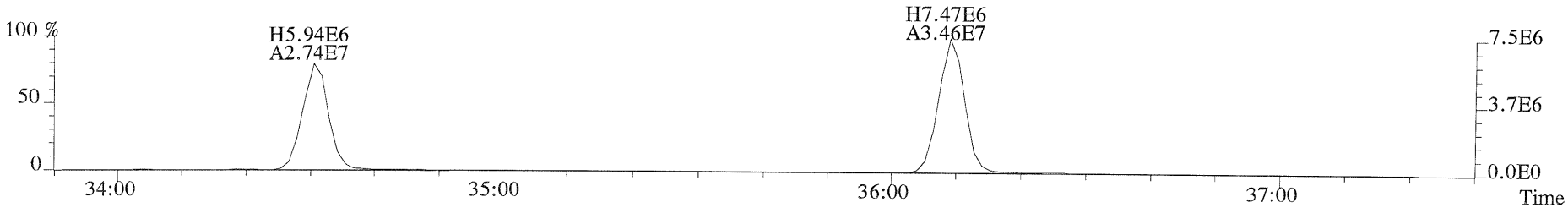
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



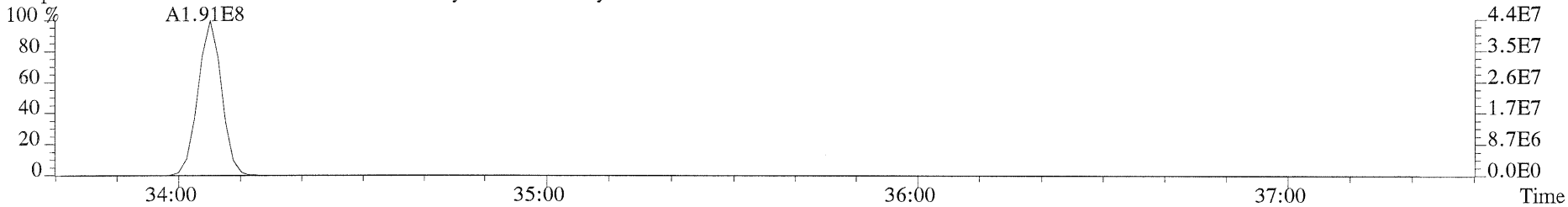
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



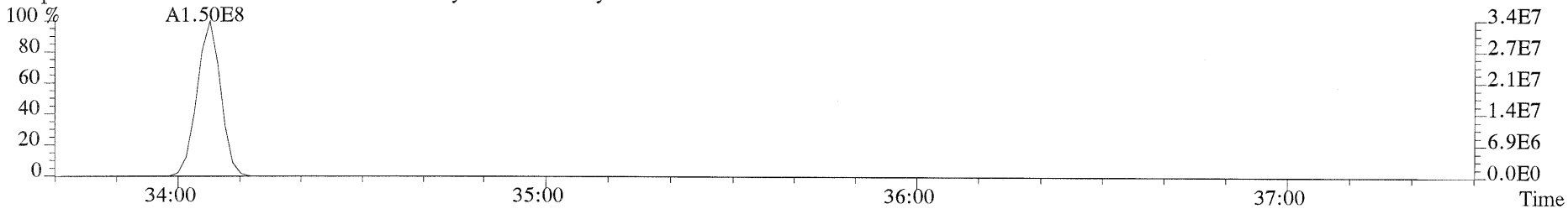
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



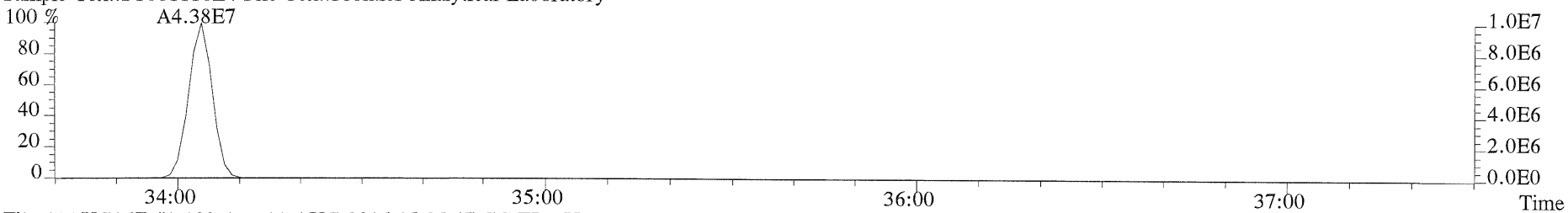
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



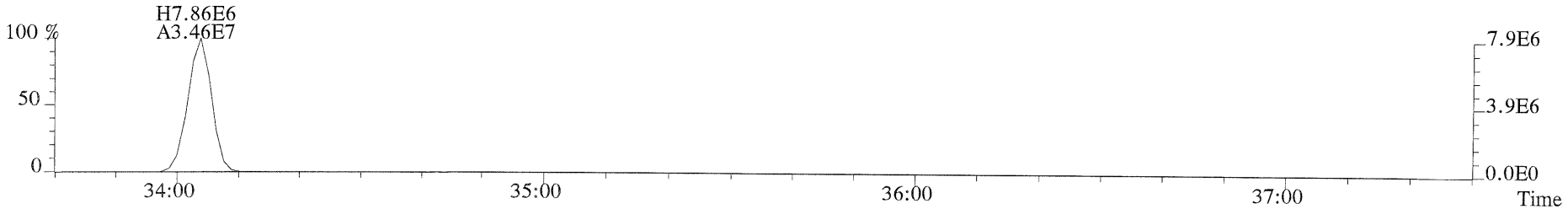
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



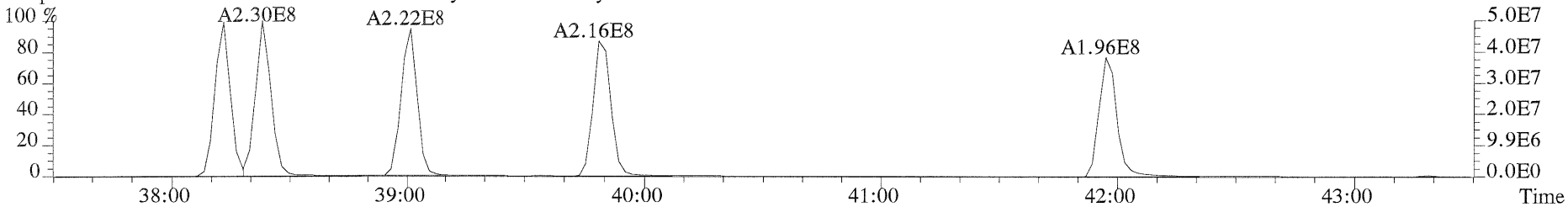
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



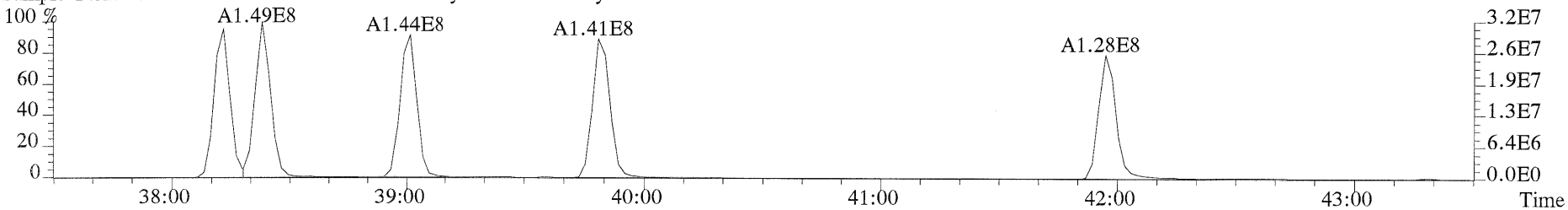
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



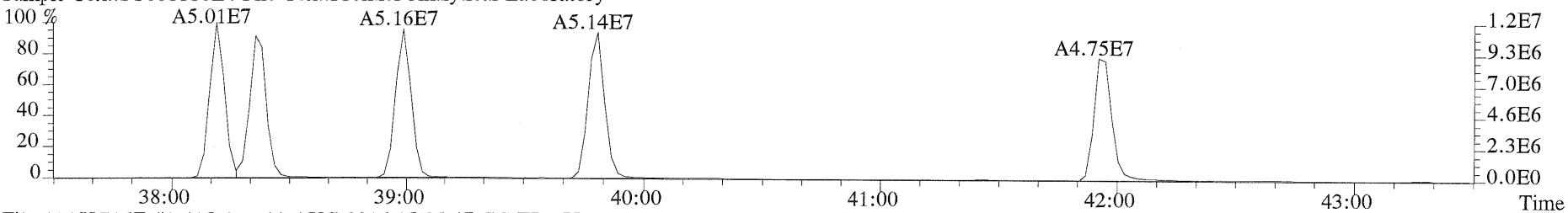
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



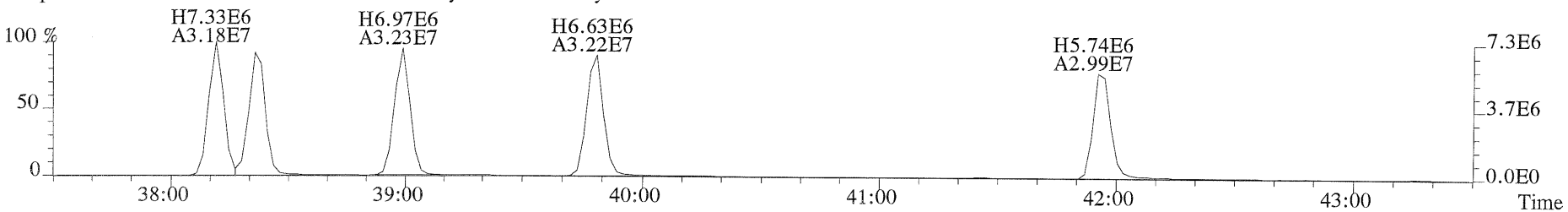
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



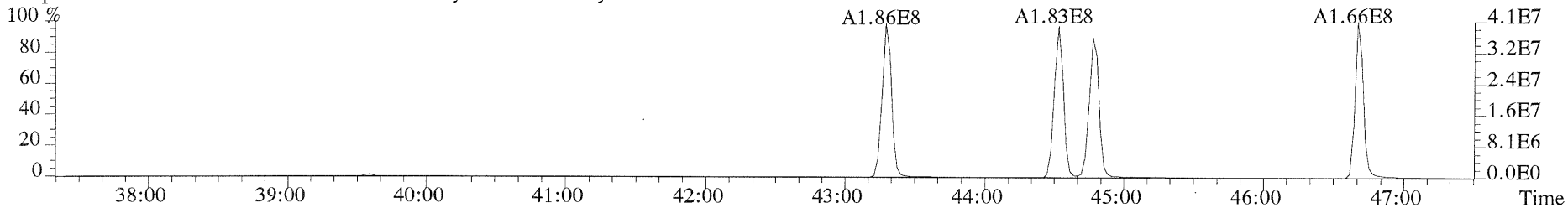
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



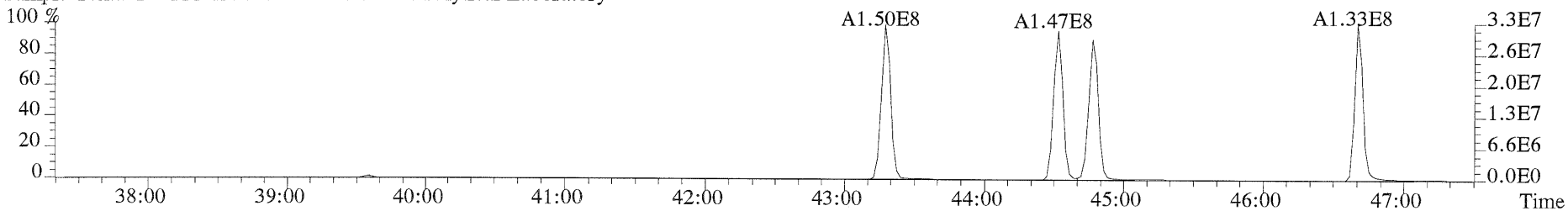
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



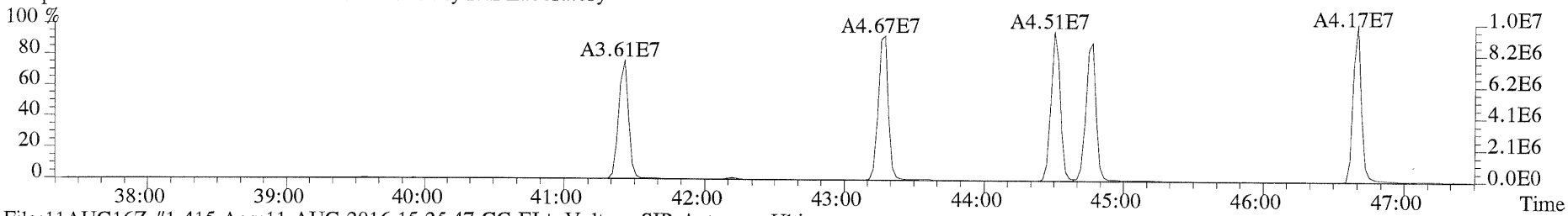
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



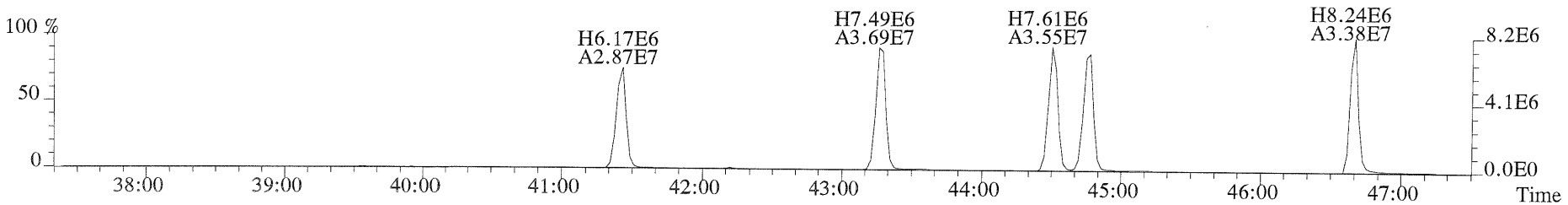
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



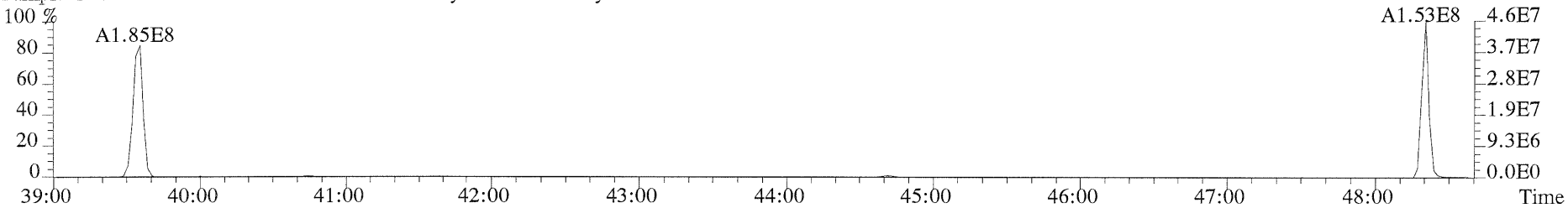
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



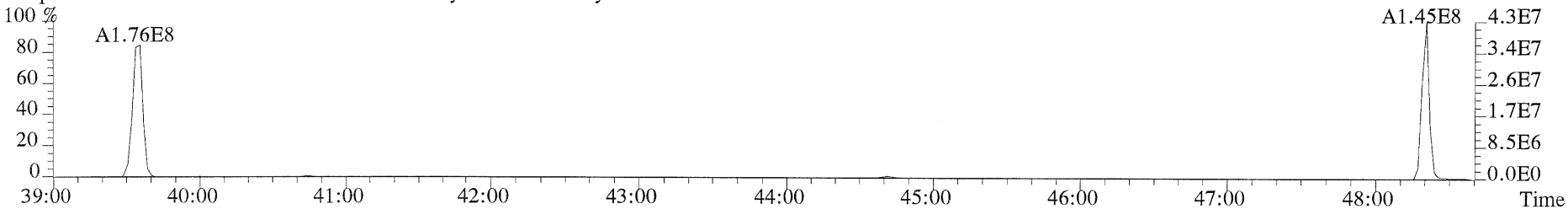
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



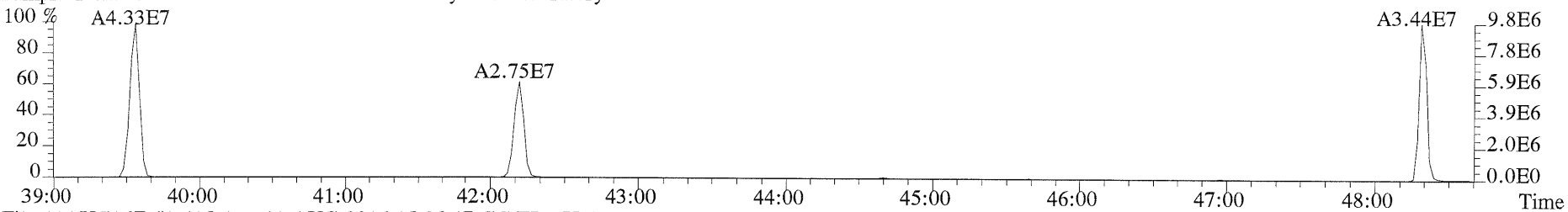
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



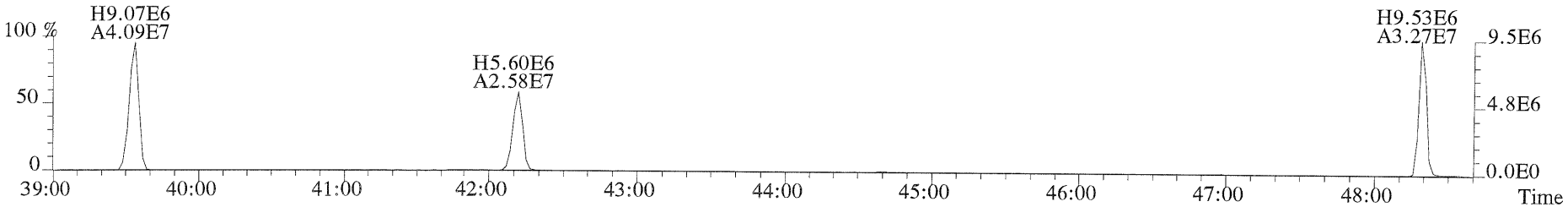
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



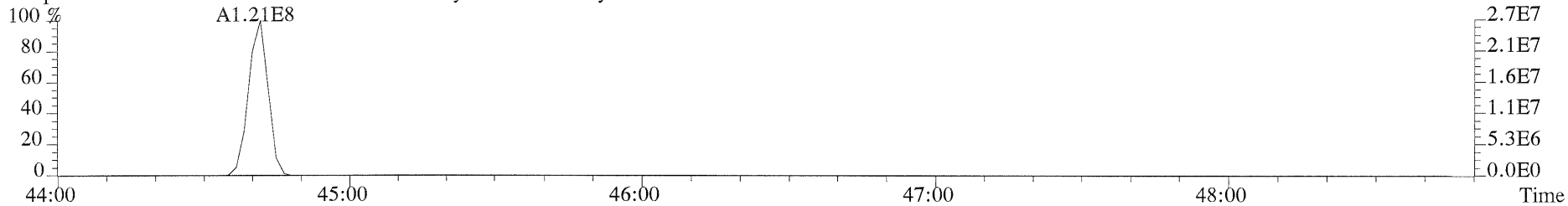
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



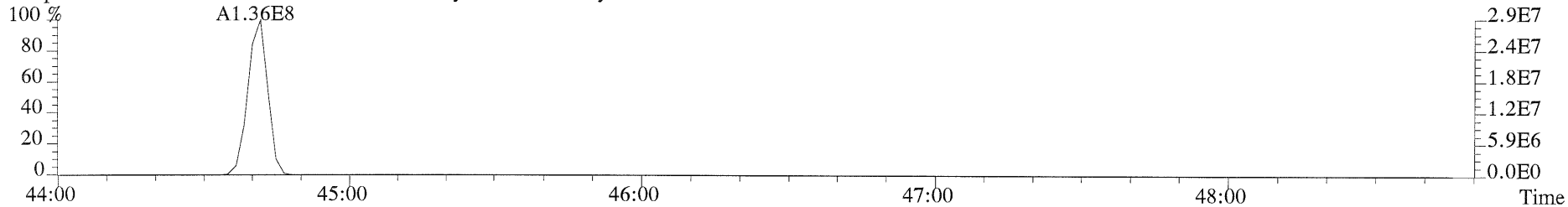
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



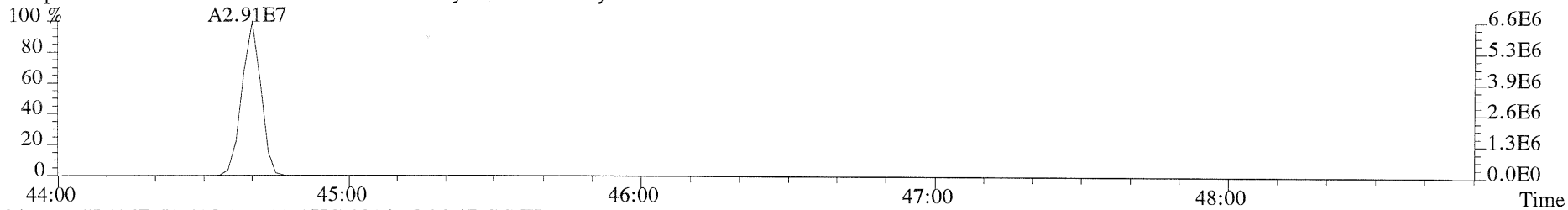
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



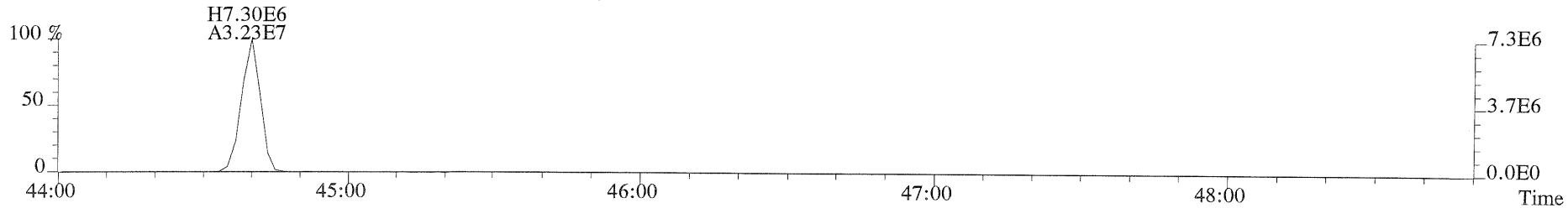
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



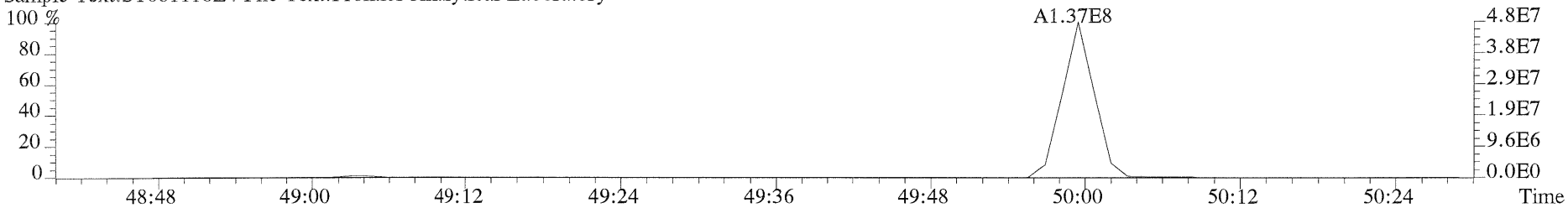
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



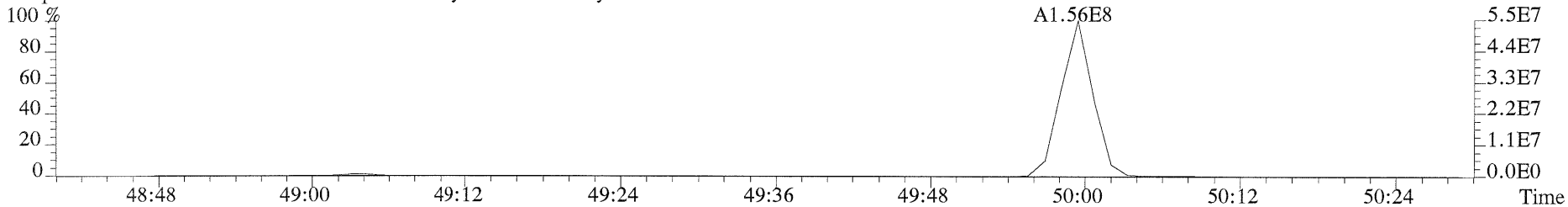
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



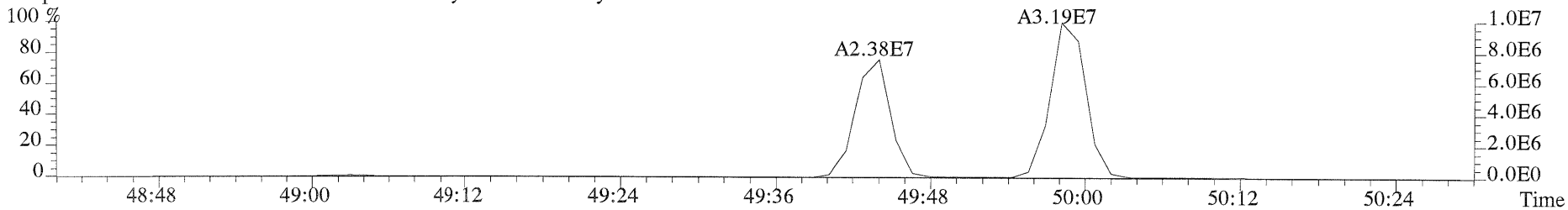
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



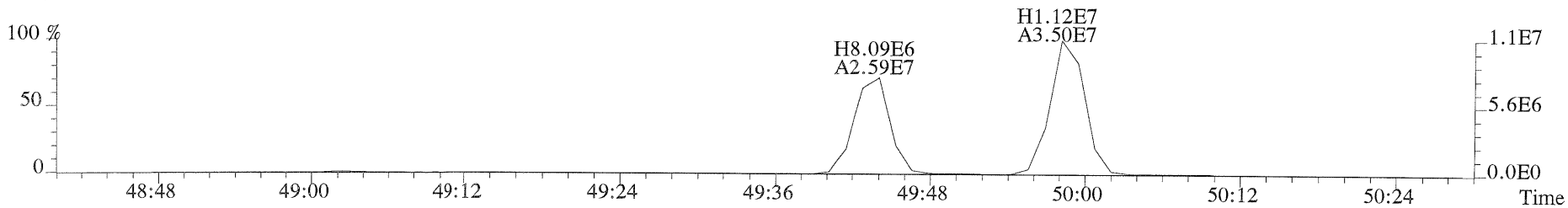
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



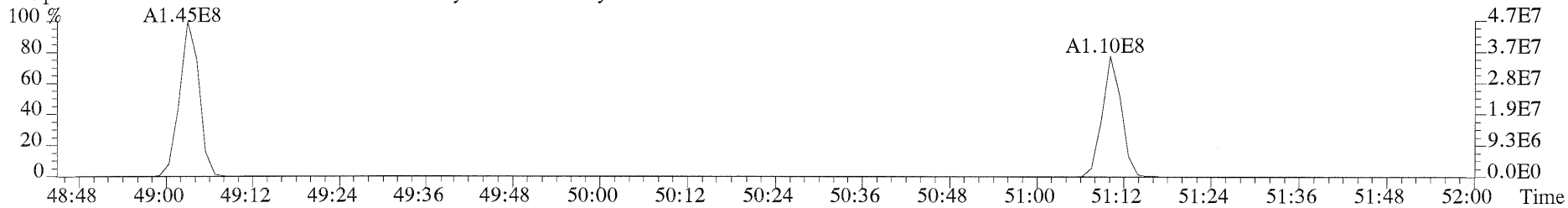
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



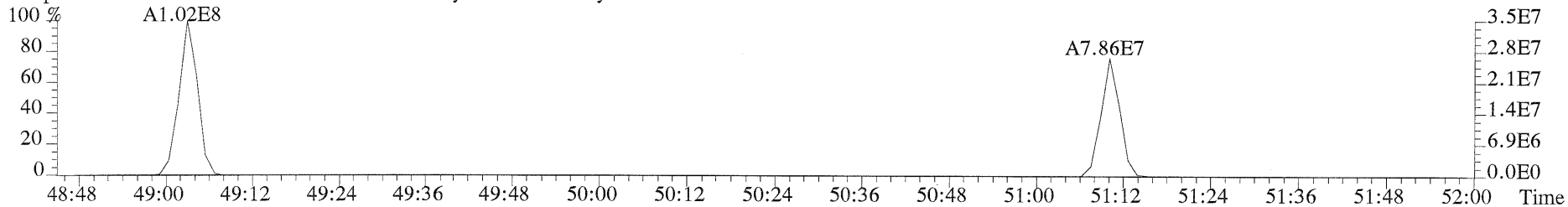
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



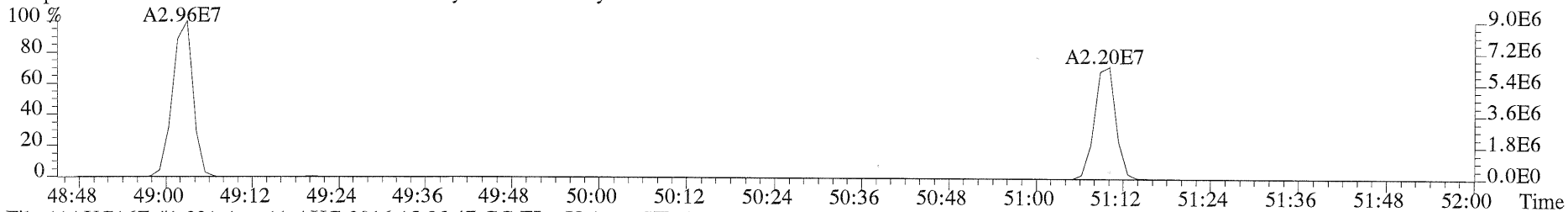
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



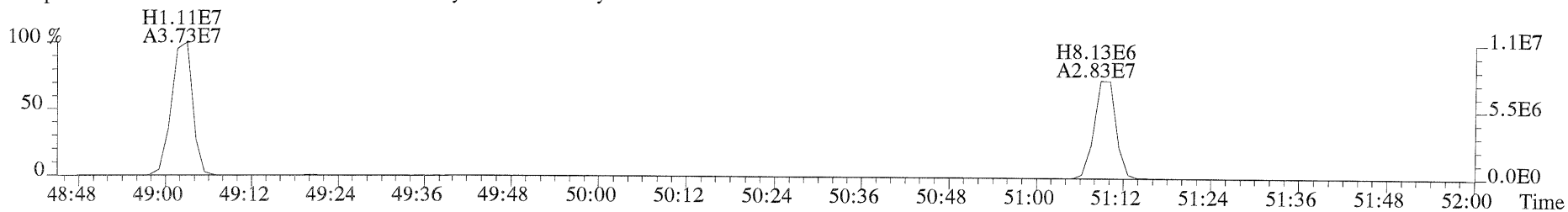
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



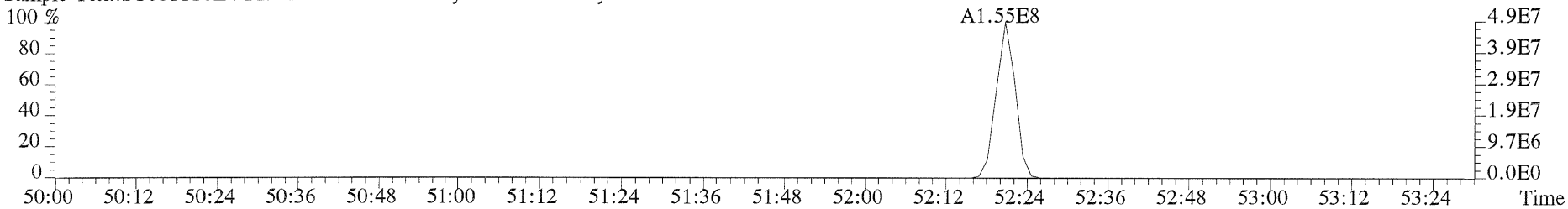
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



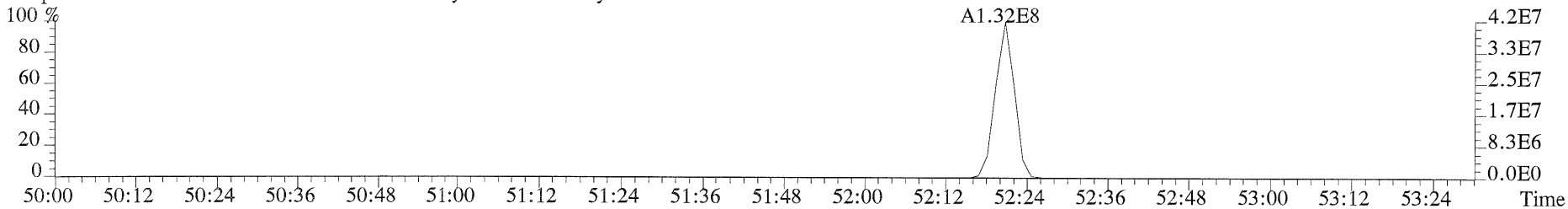
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



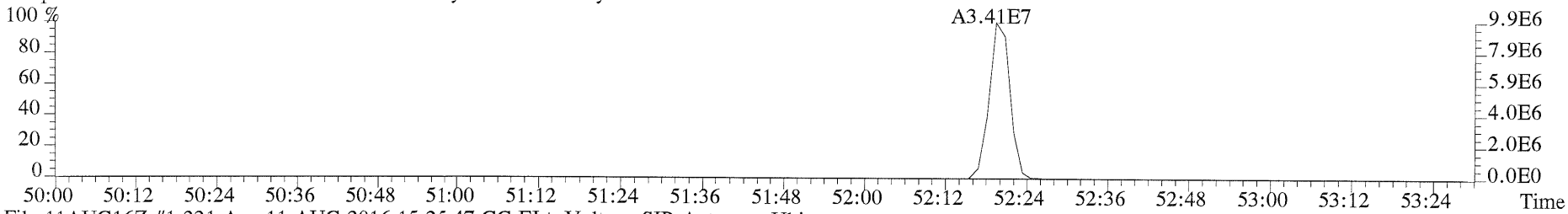
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



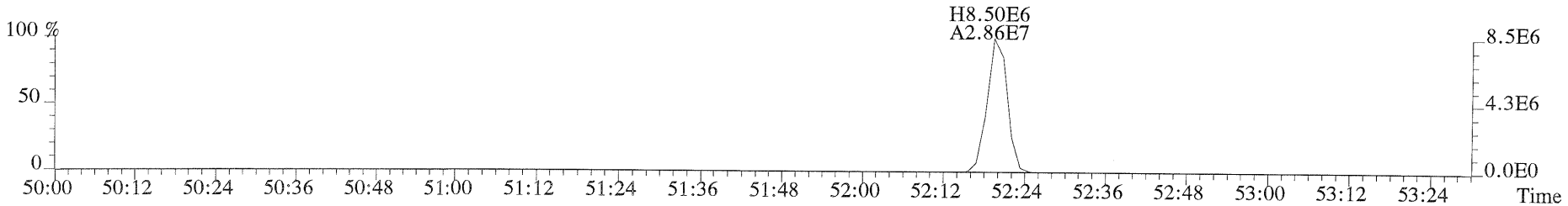
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



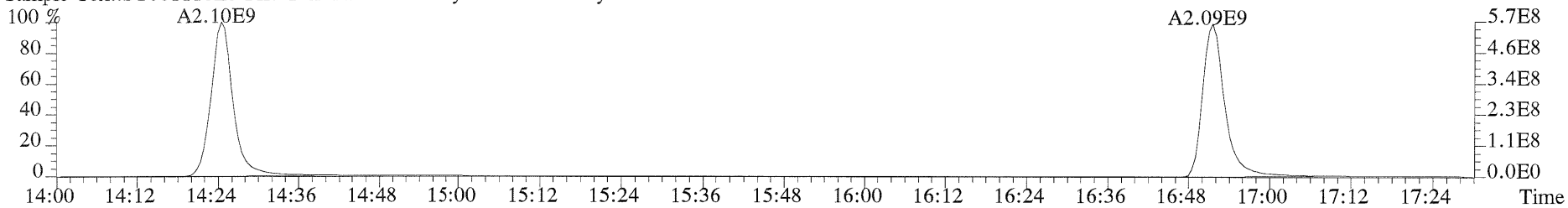
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



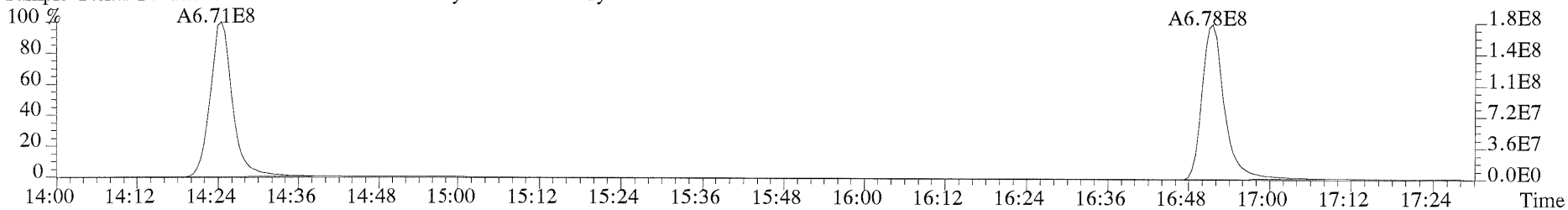
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



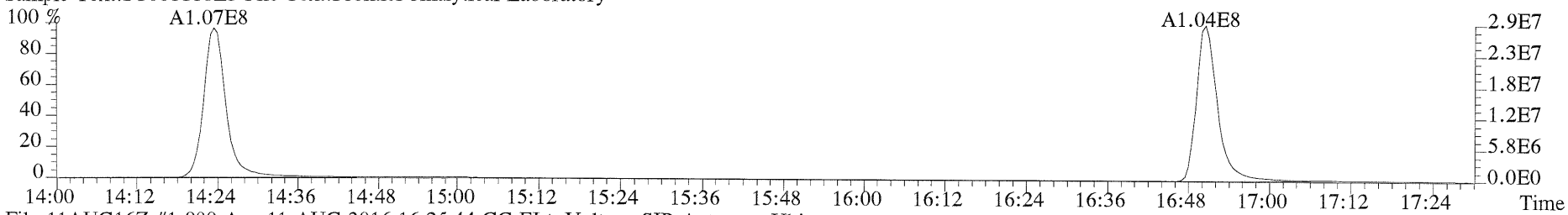
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



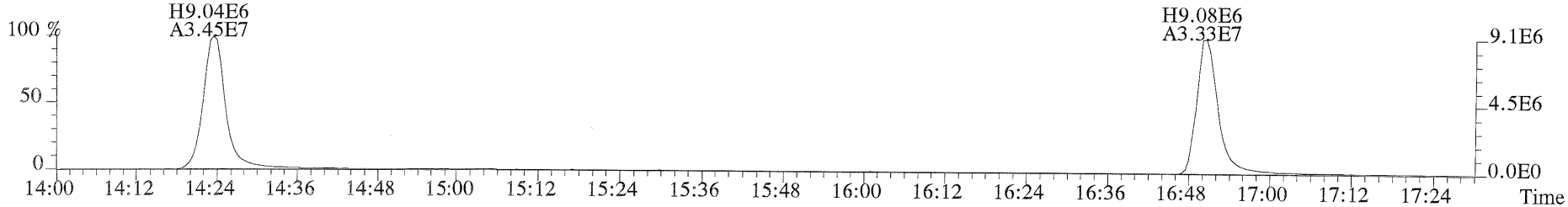
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



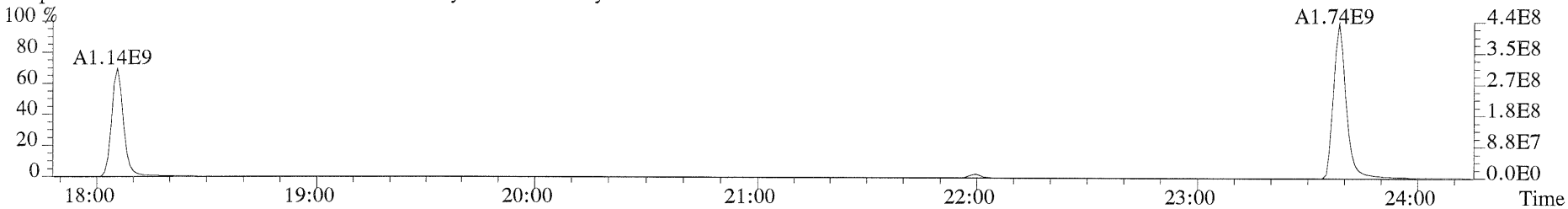
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



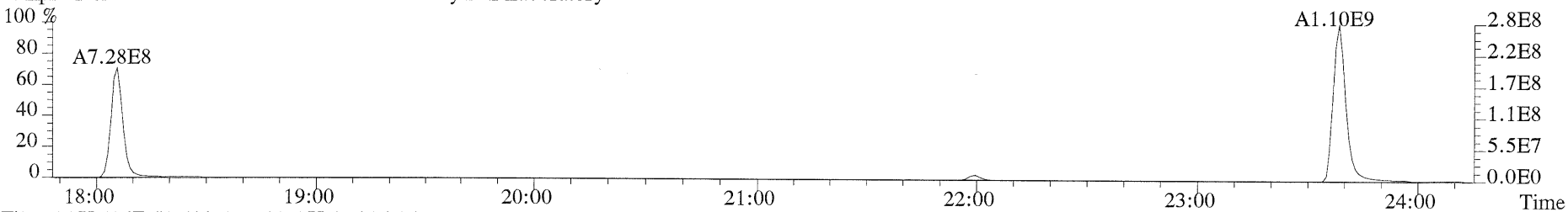
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



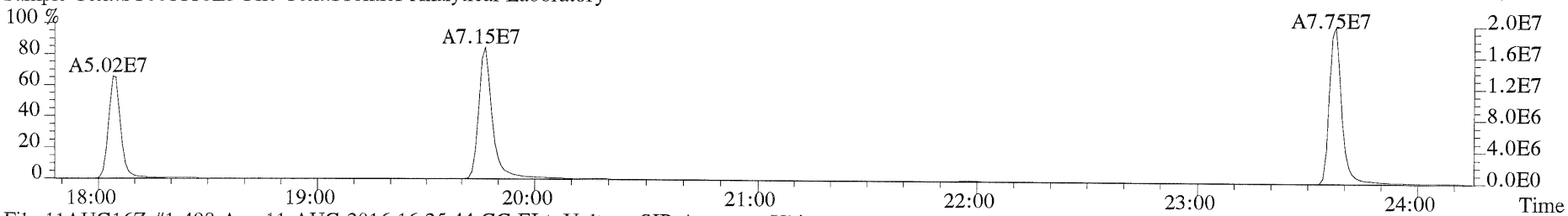
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



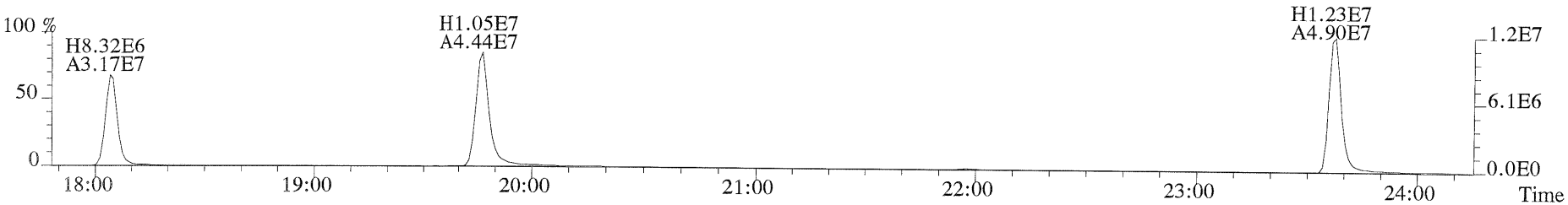
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



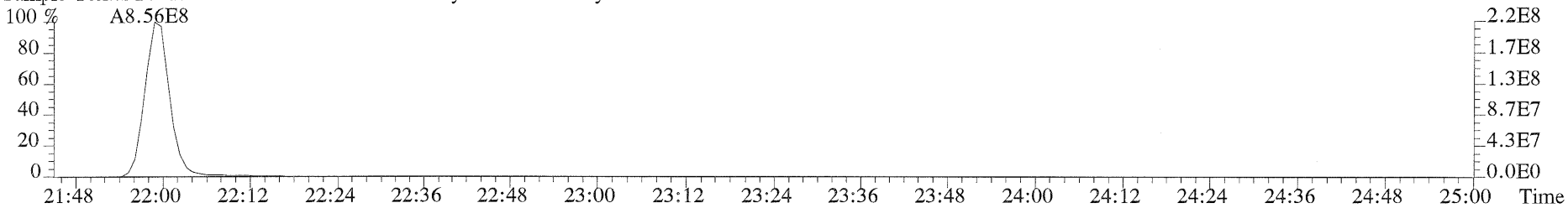
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



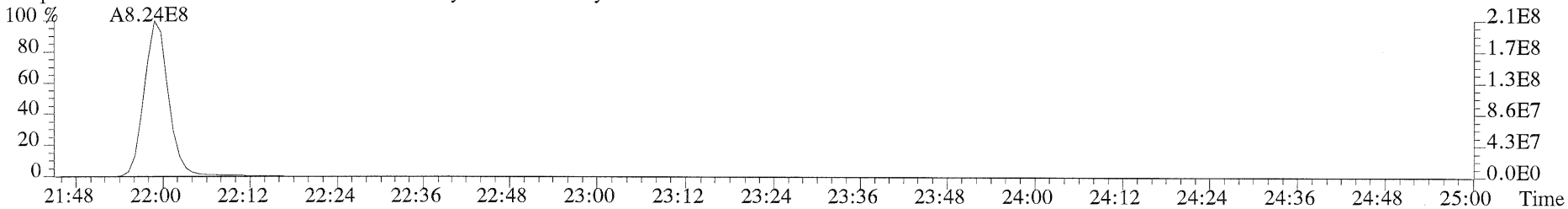
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



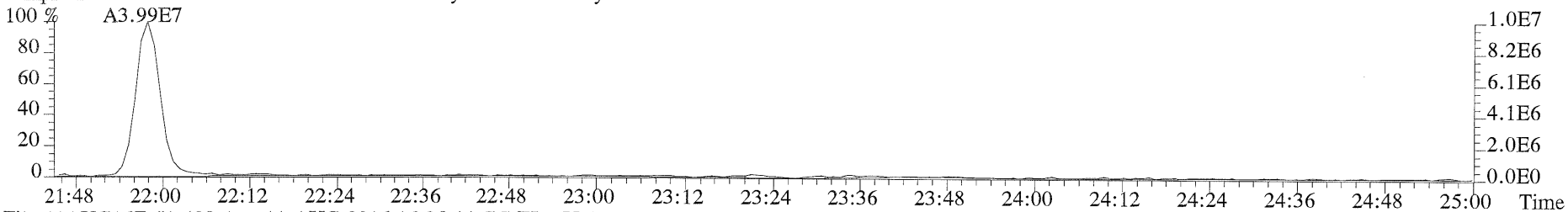
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



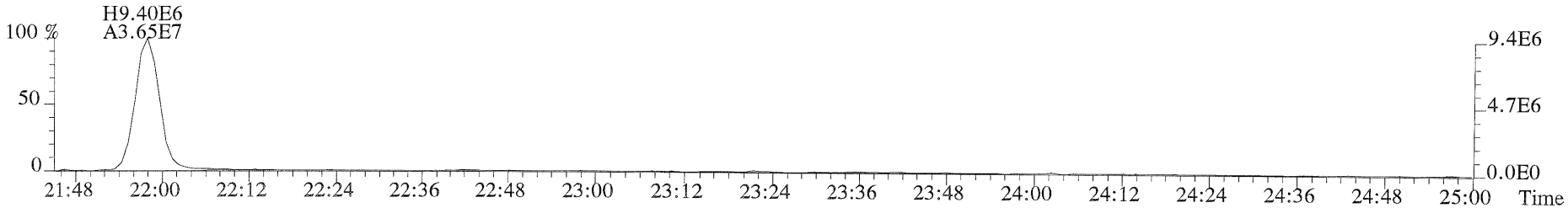
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



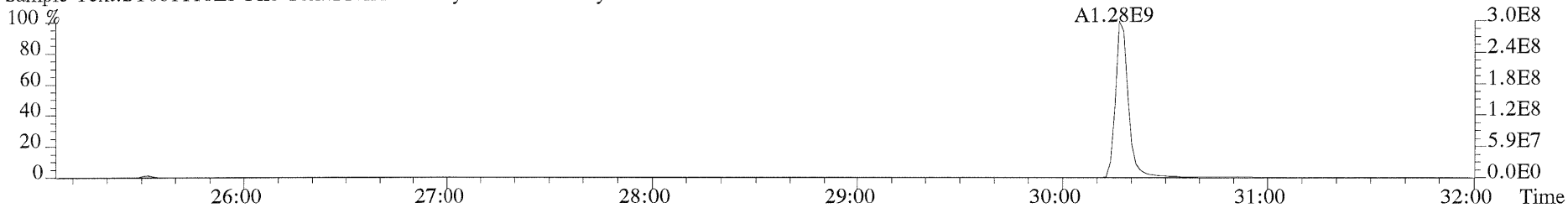
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



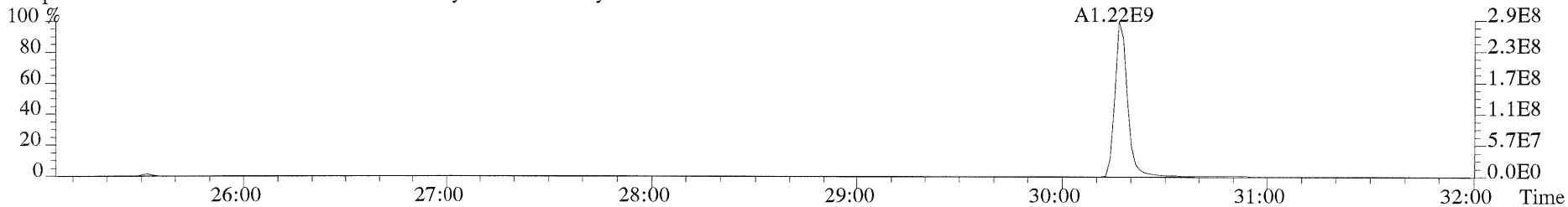
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



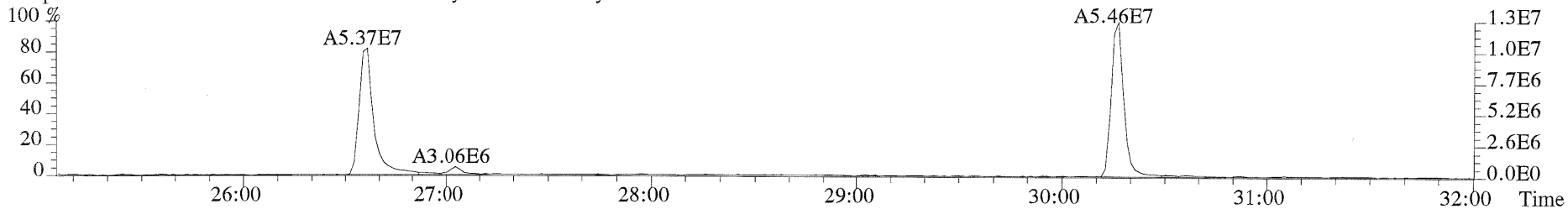
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



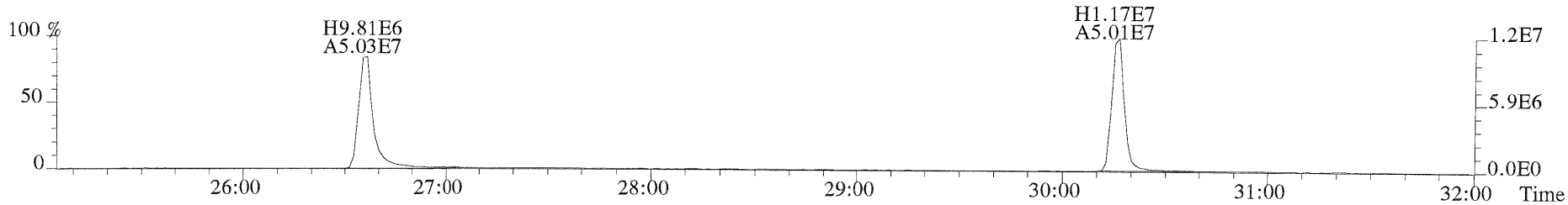
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



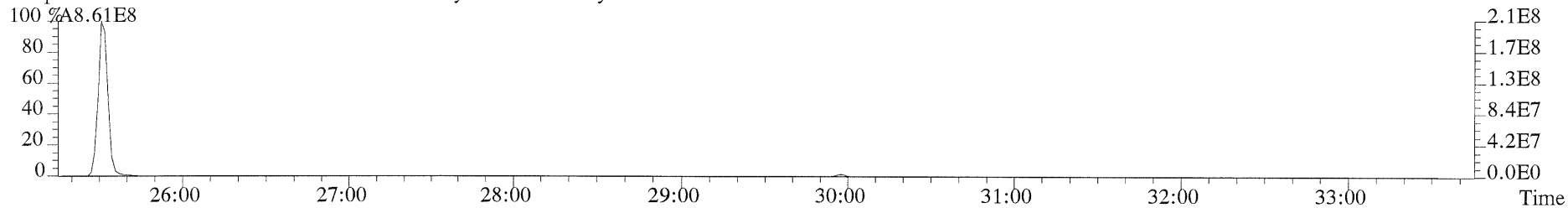
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



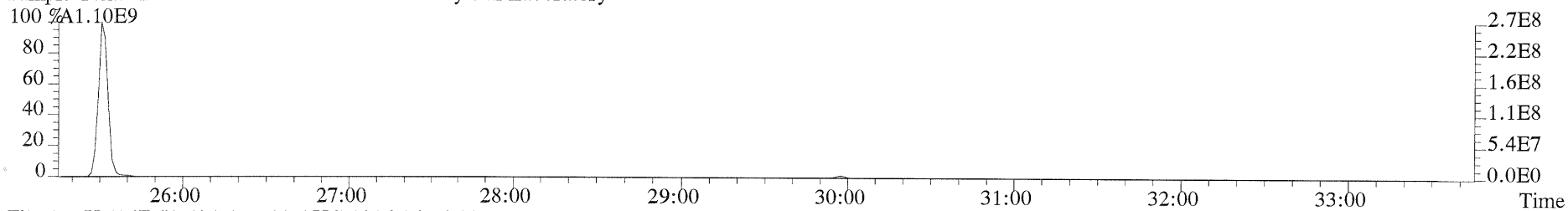
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



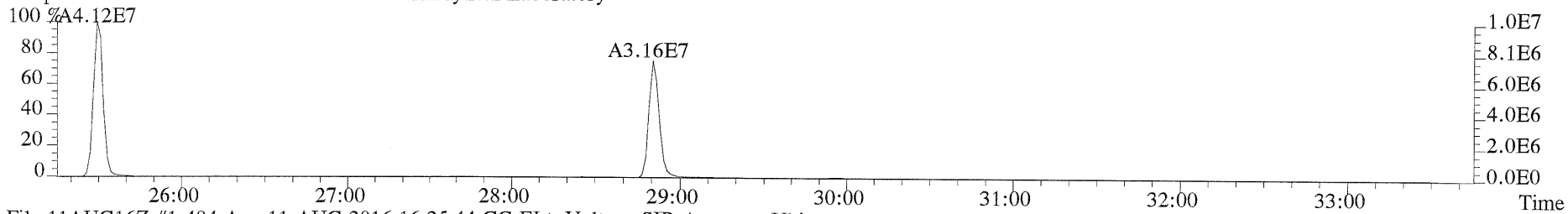
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



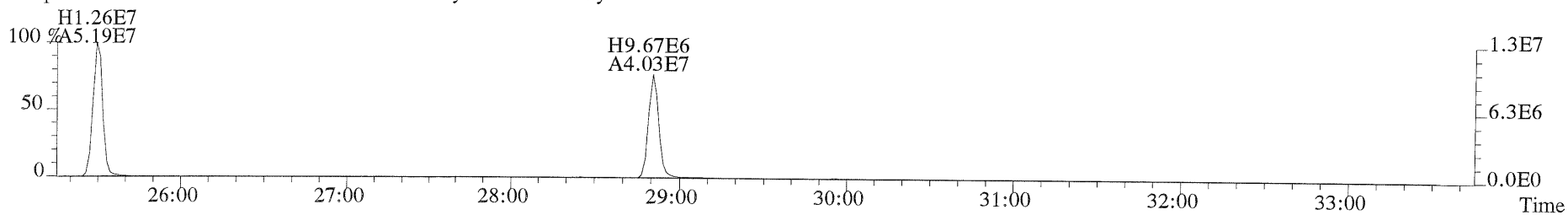
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



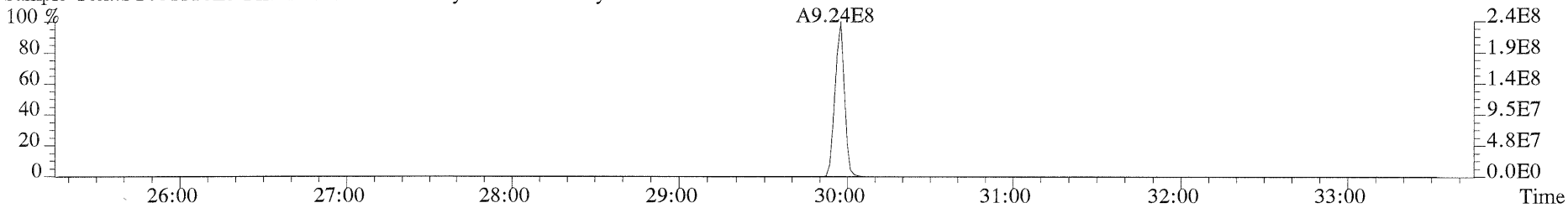
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



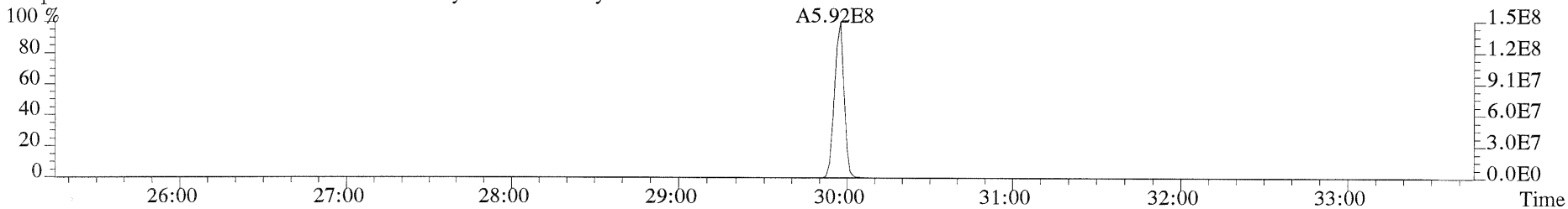
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



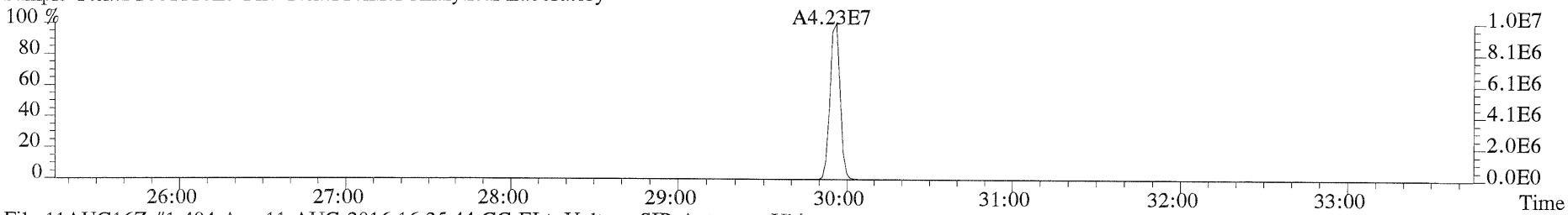
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



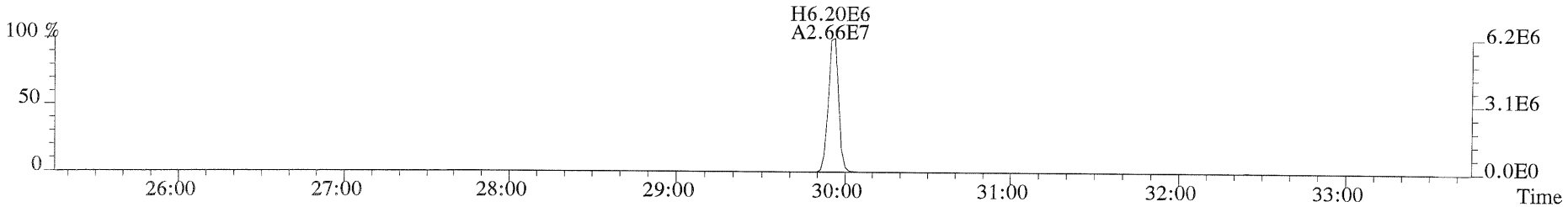
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



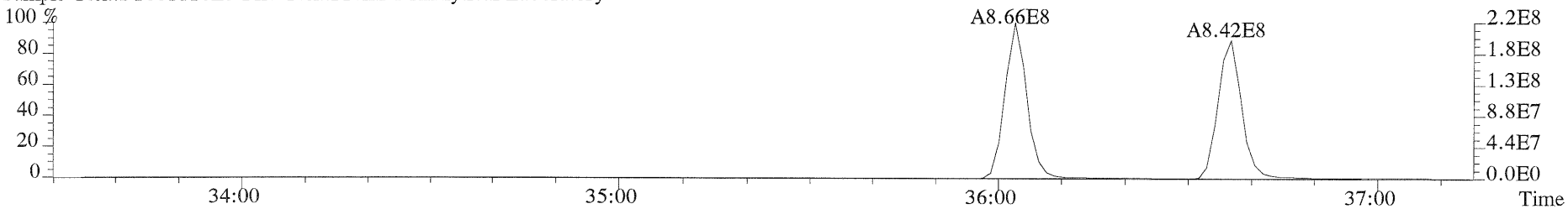
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



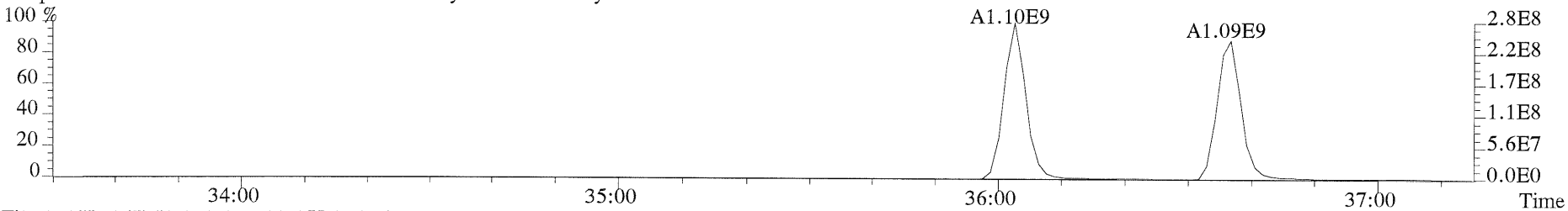
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



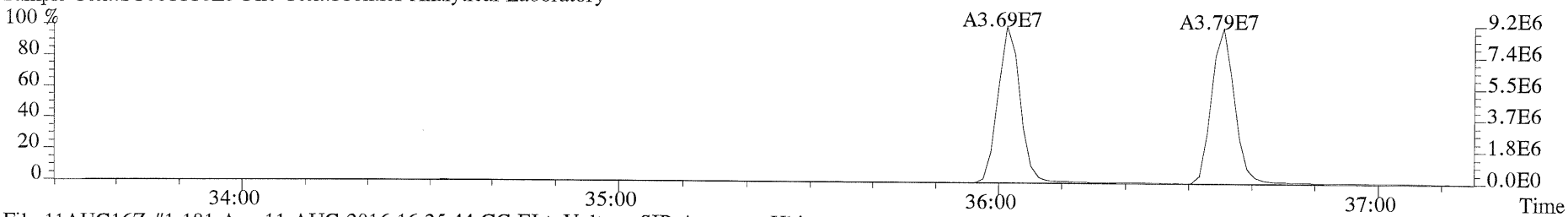
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



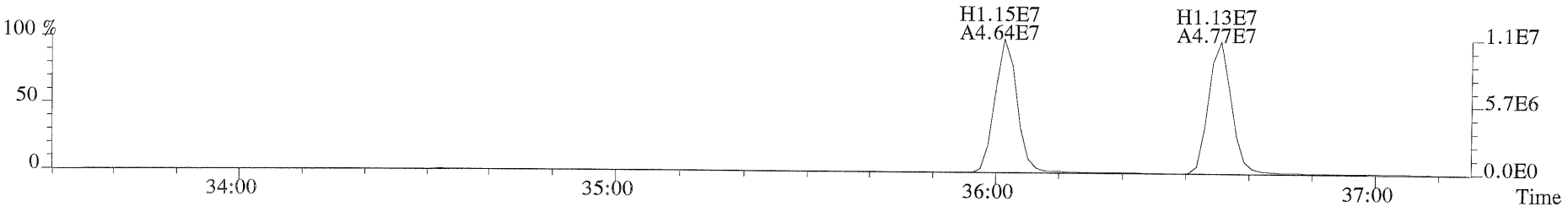
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



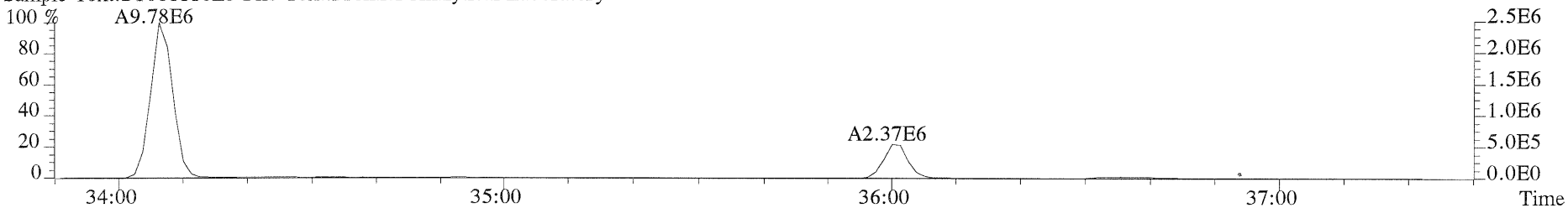
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



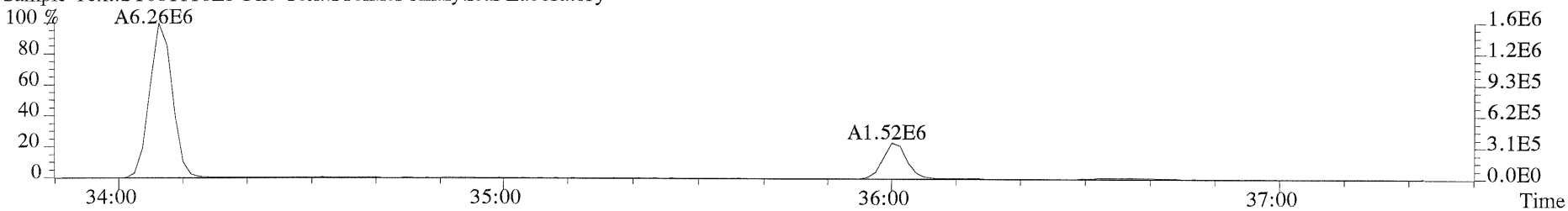
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



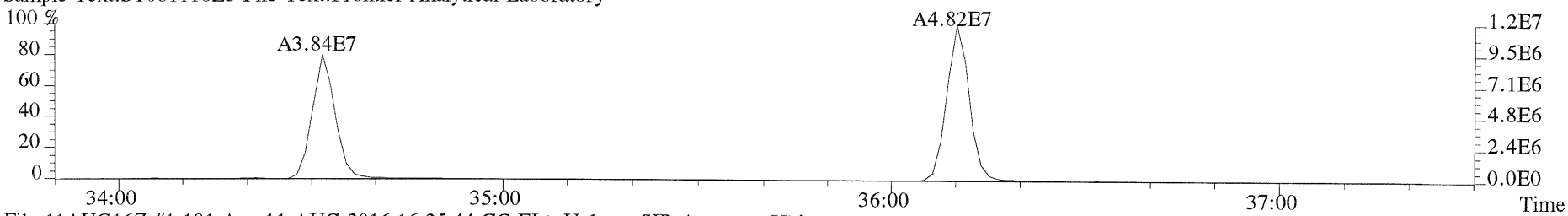
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



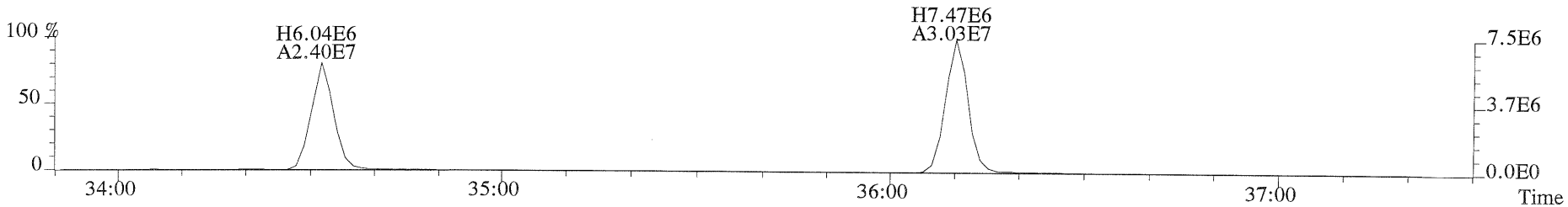
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



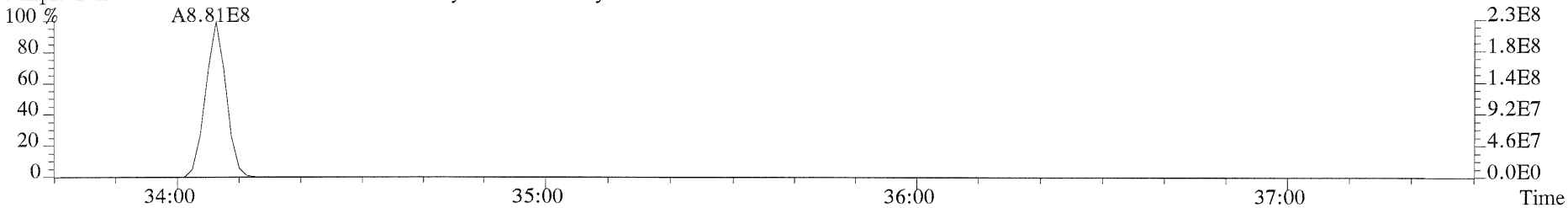
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



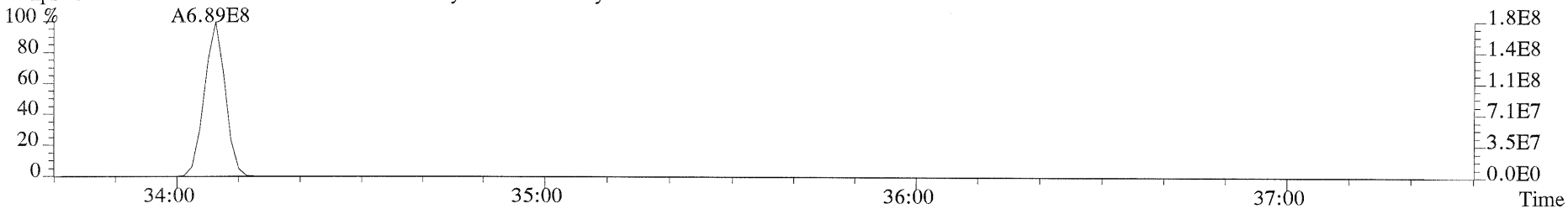
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



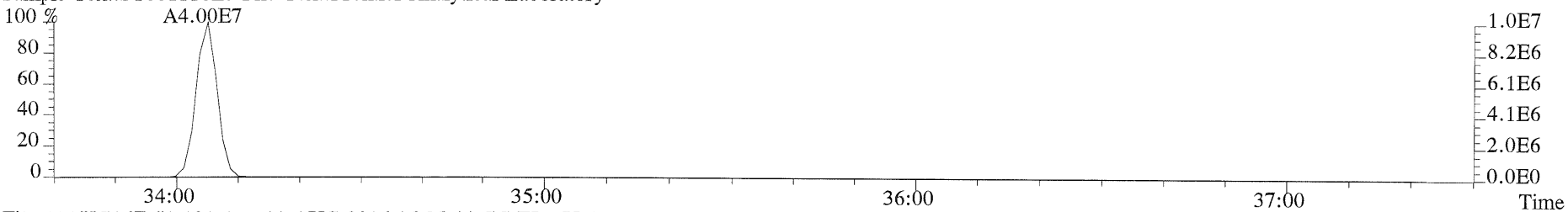
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



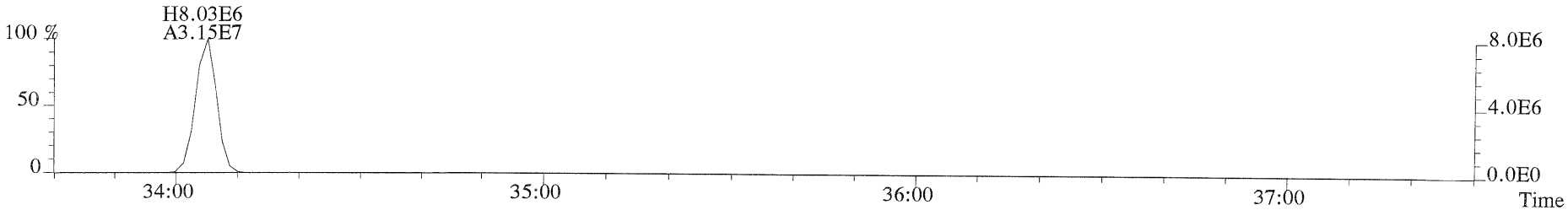
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



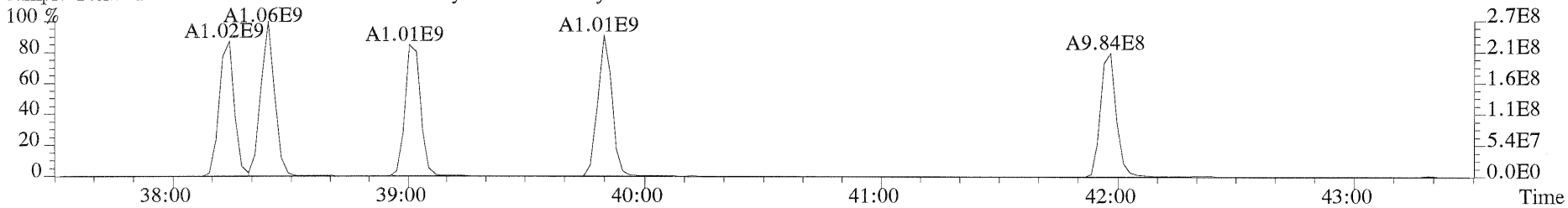
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



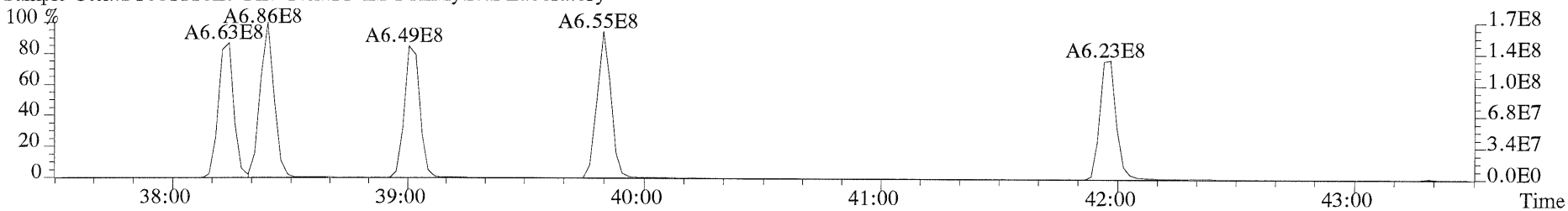
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



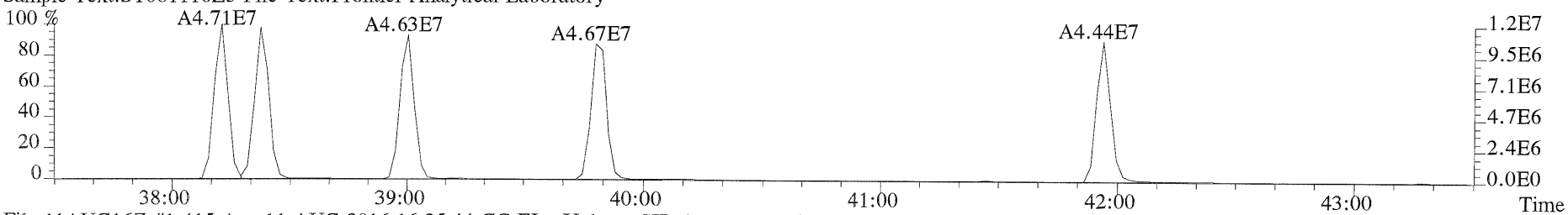
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



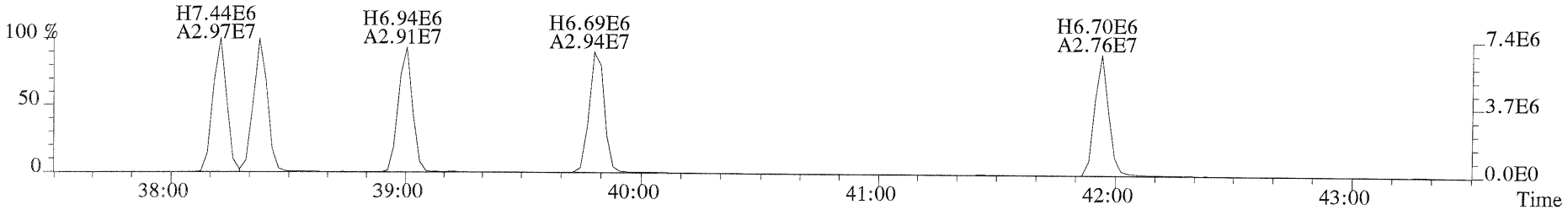
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



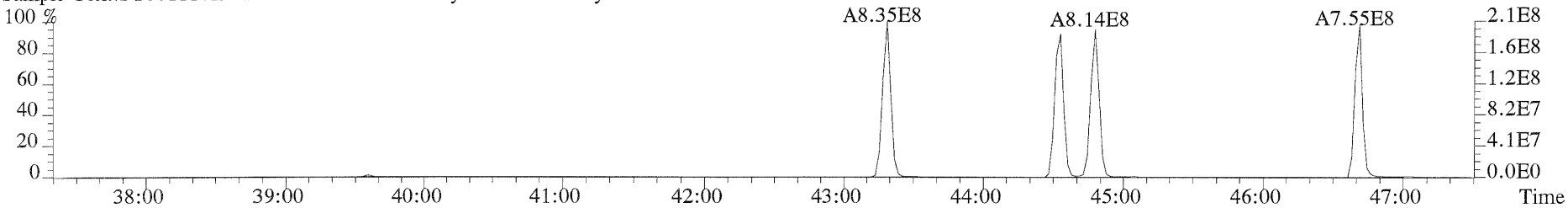
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



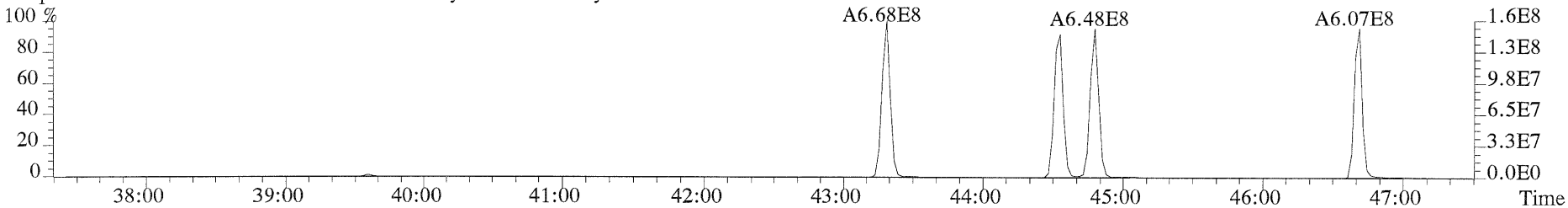
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



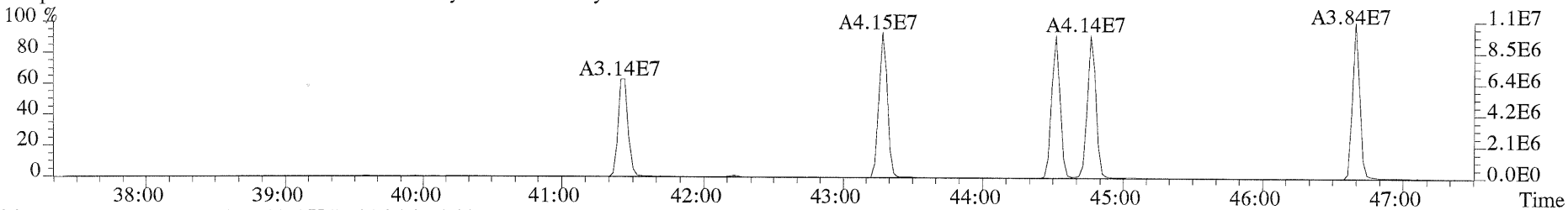
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



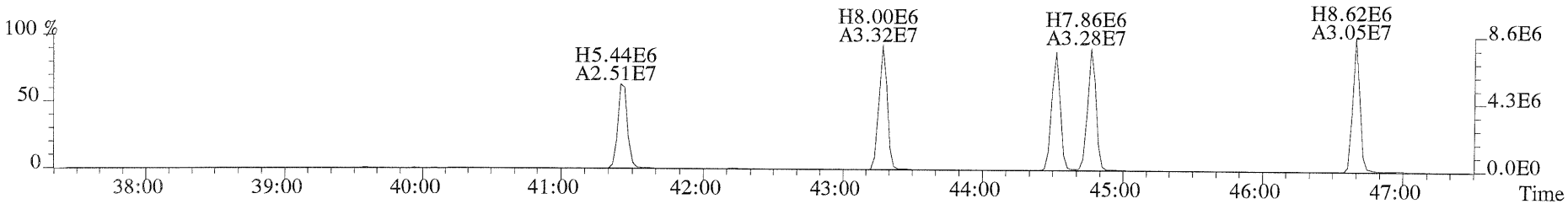
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



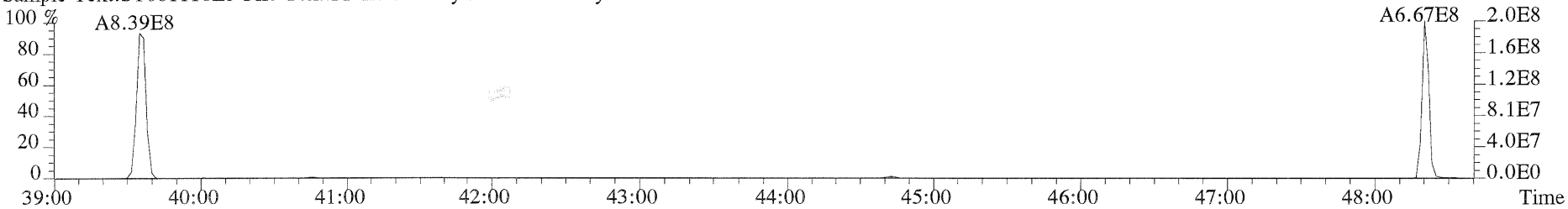
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



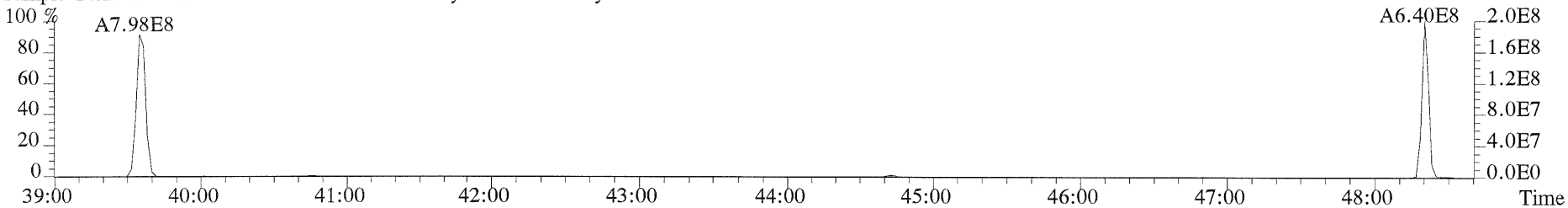
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



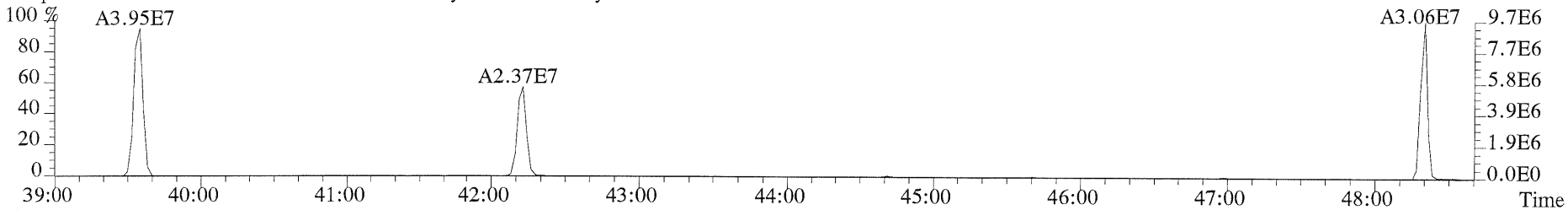
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



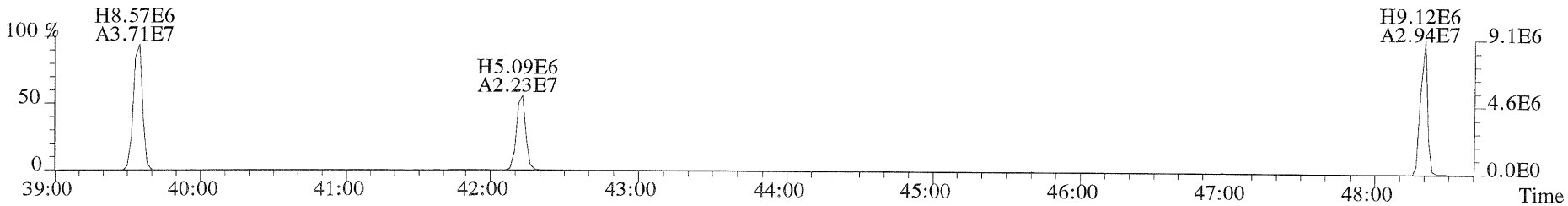
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



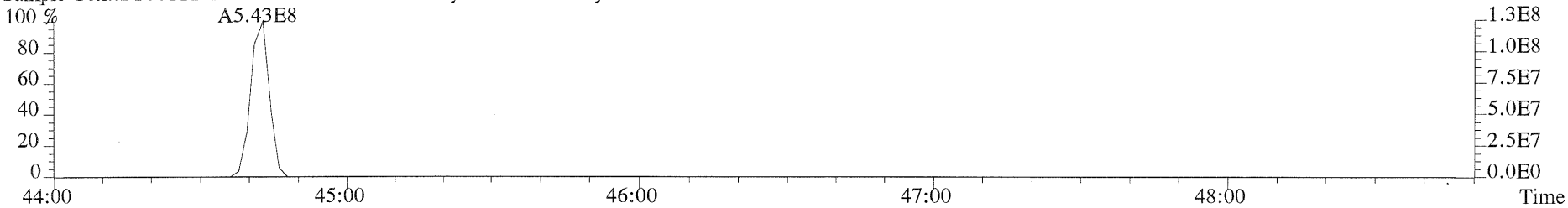
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



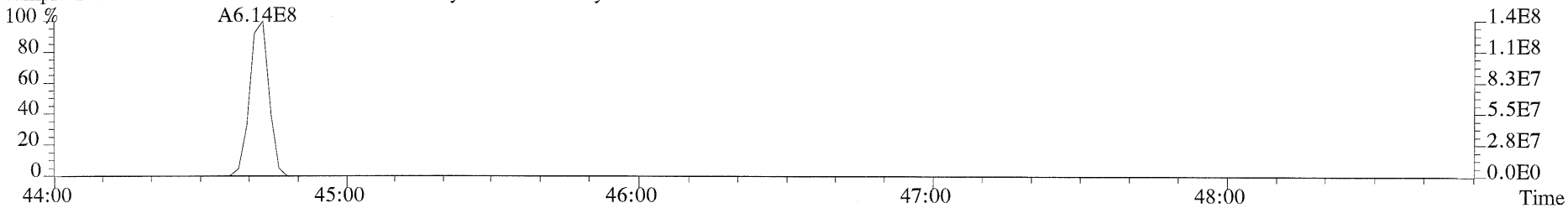
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



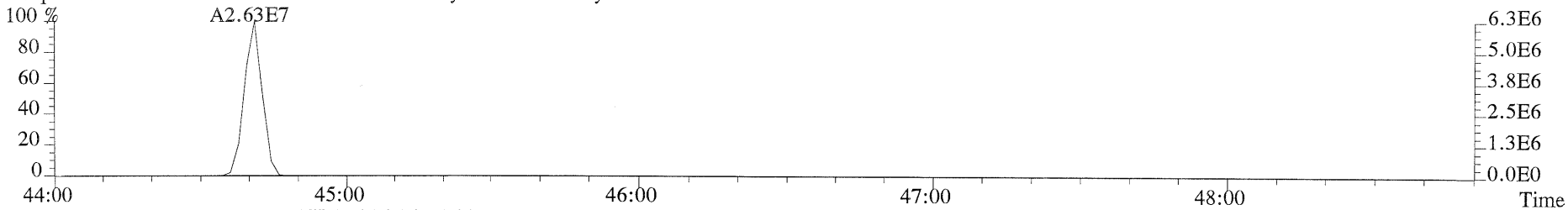
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



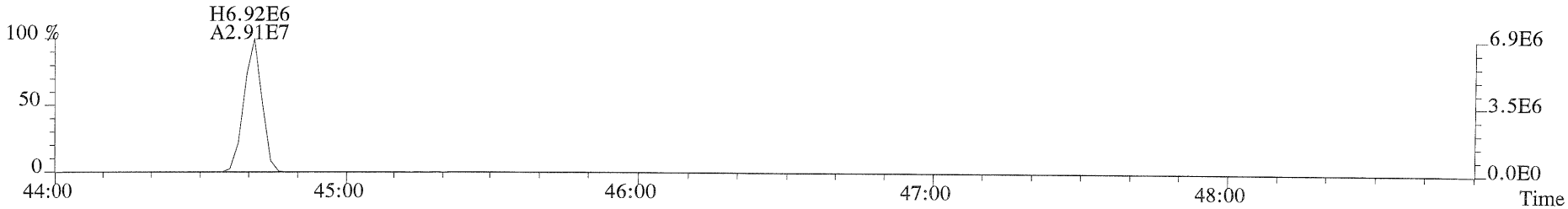
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



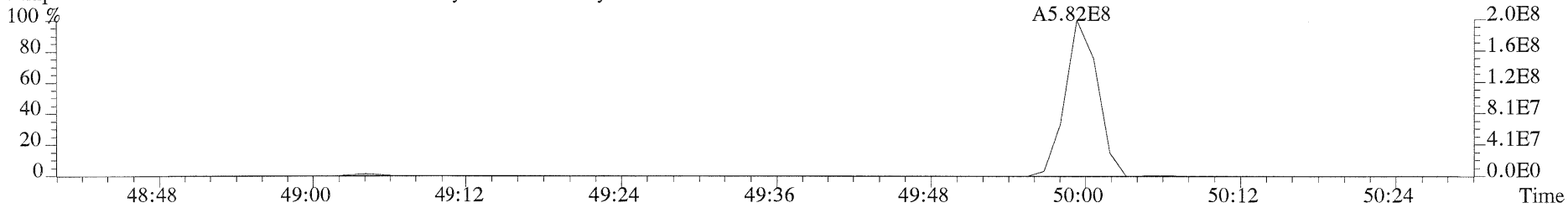
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



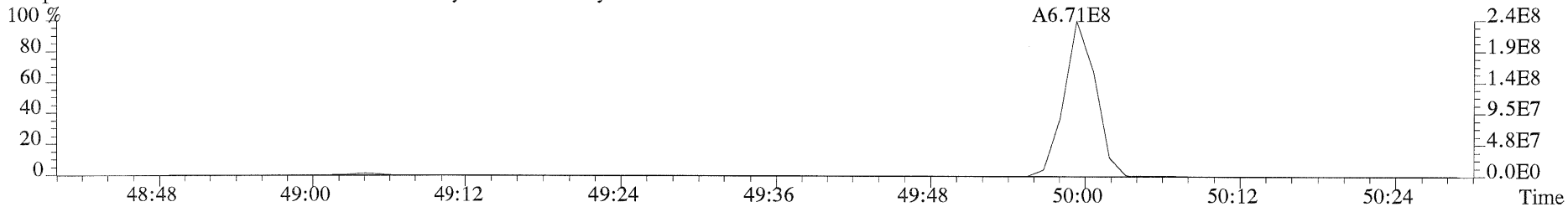
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



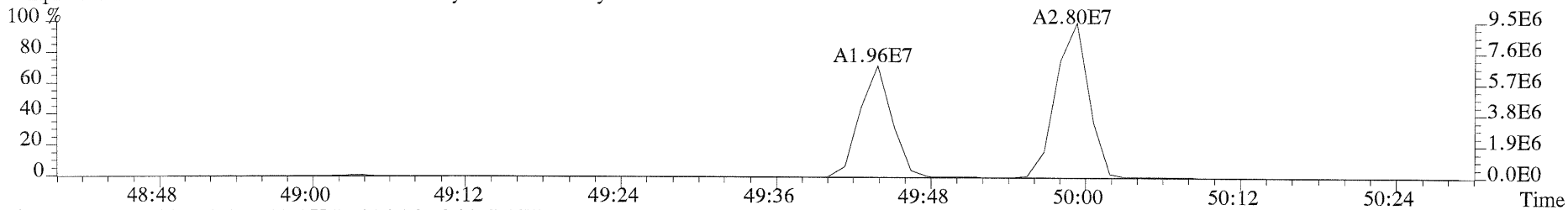
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



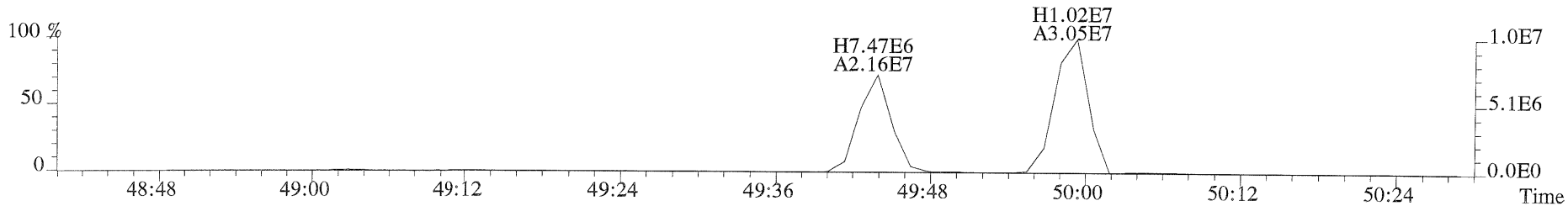
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



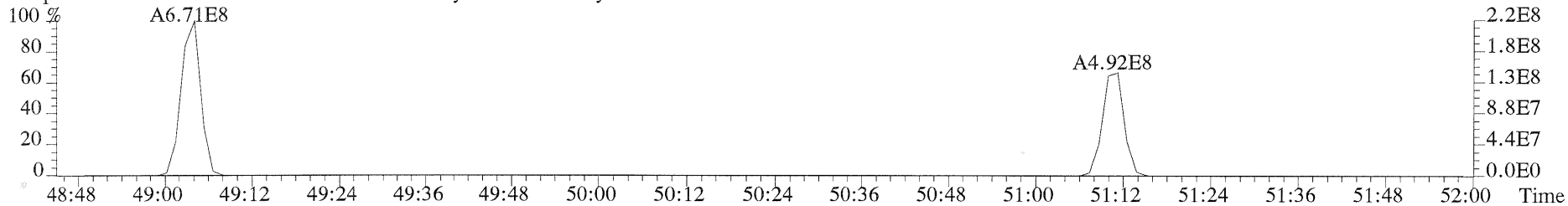
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



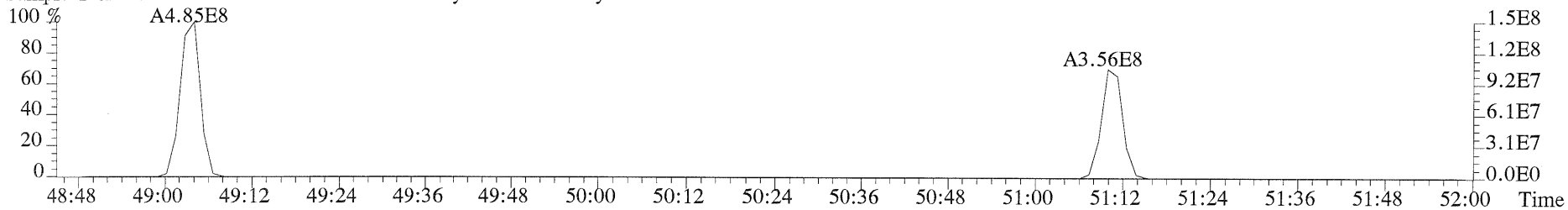
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



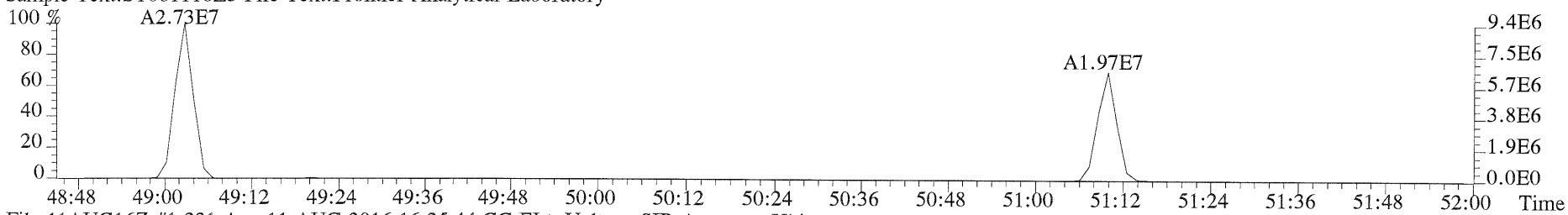
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



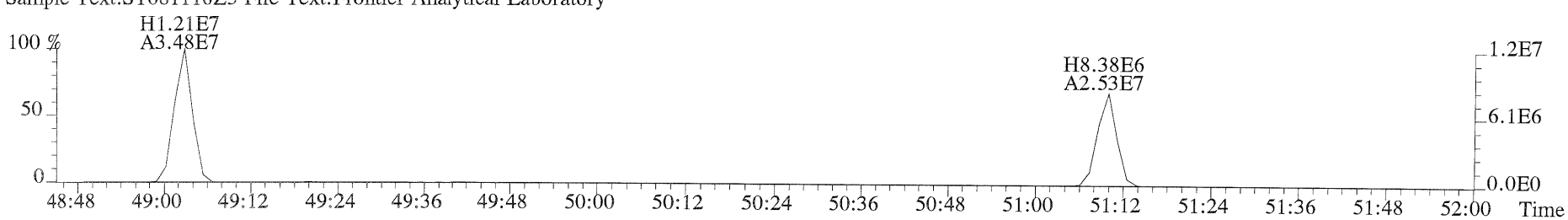
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



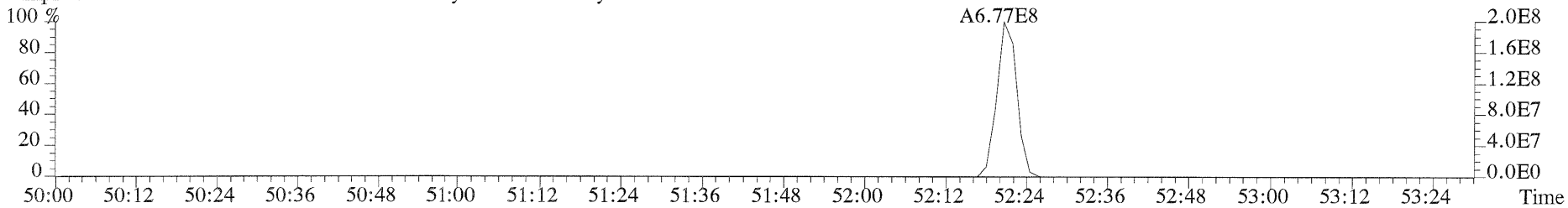
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



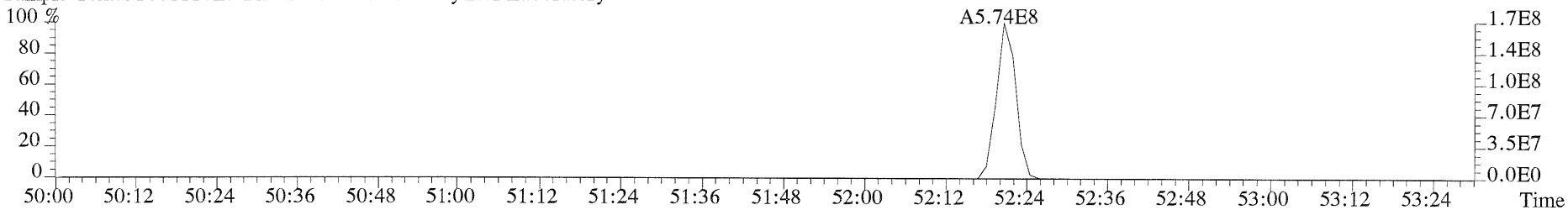
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



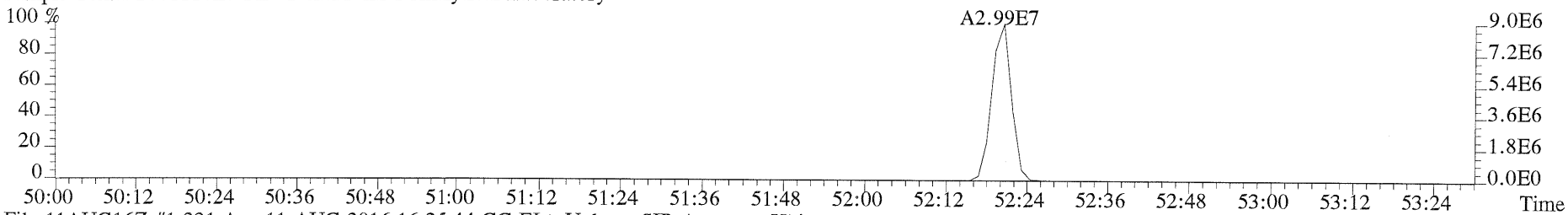
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



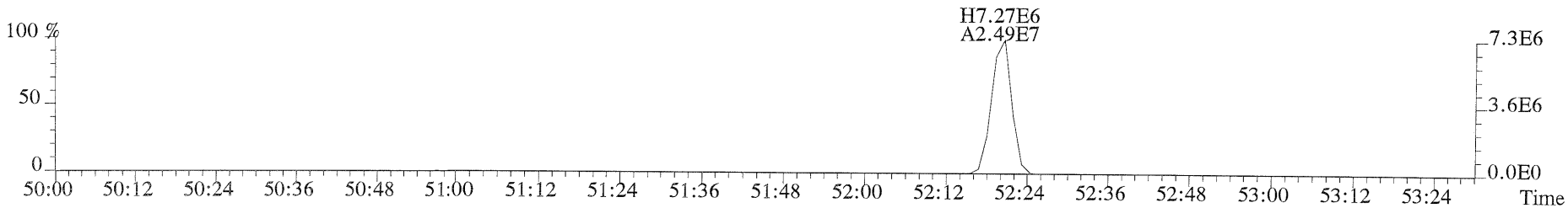
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



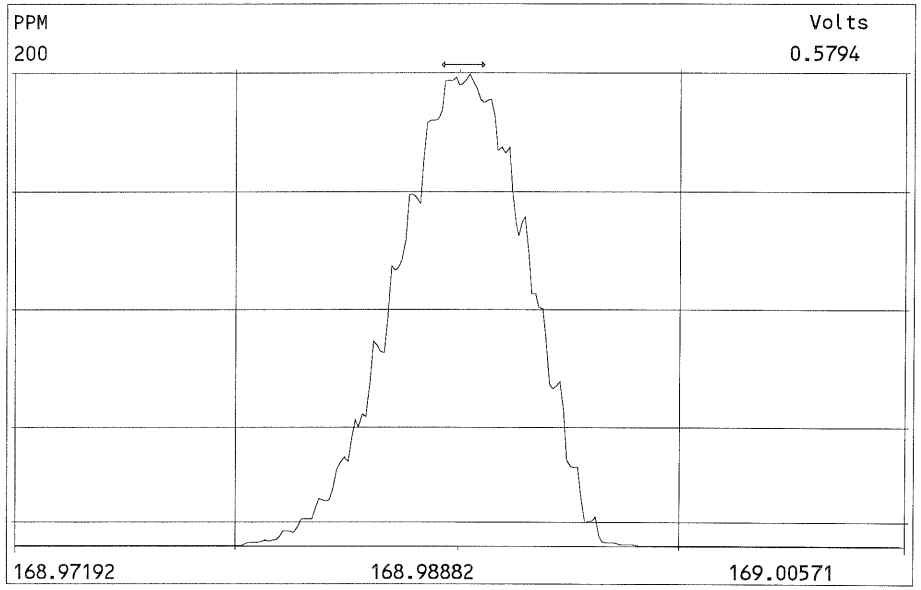
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory

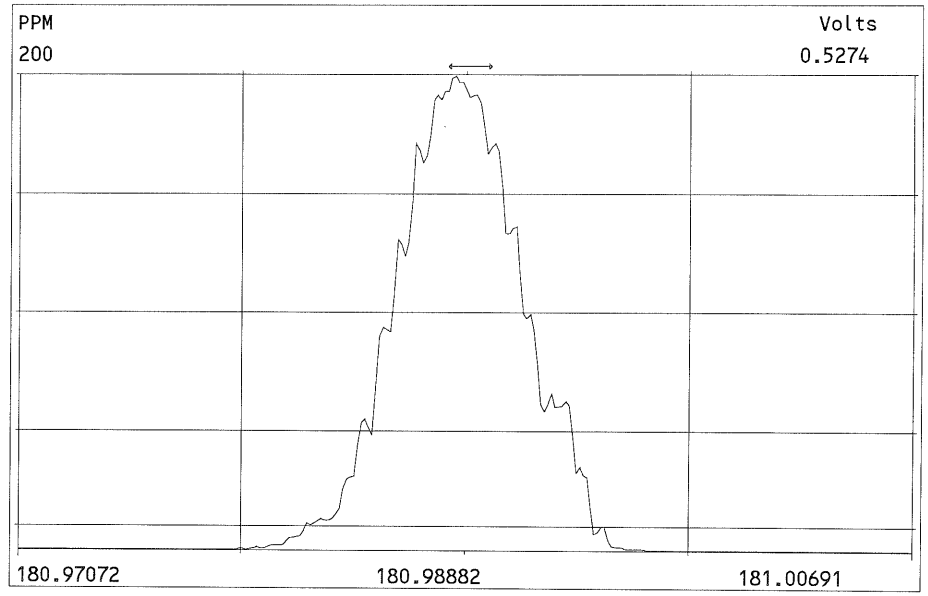


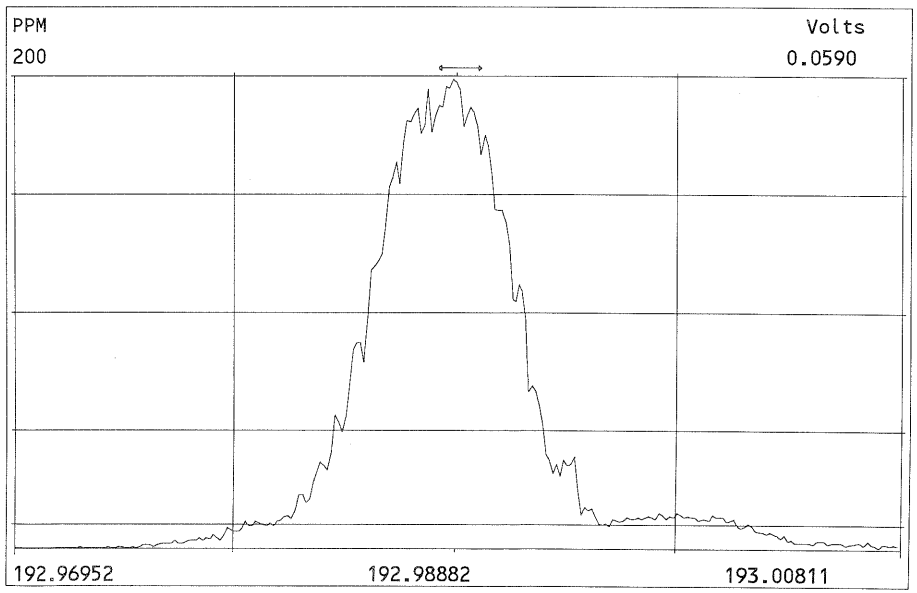
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory

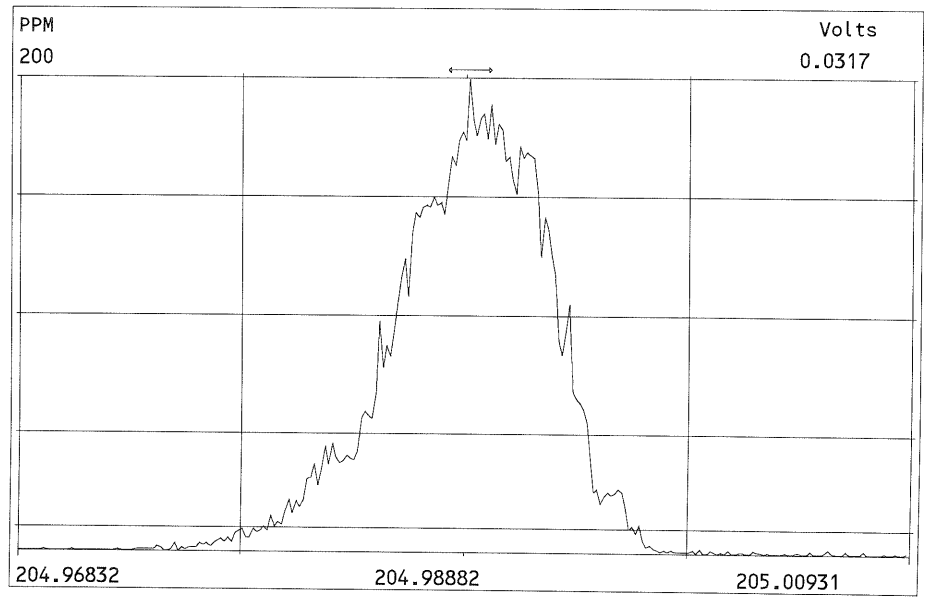


Peak Locate Examination:12-AUG-2016:07:42 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:1 Reference:PFK

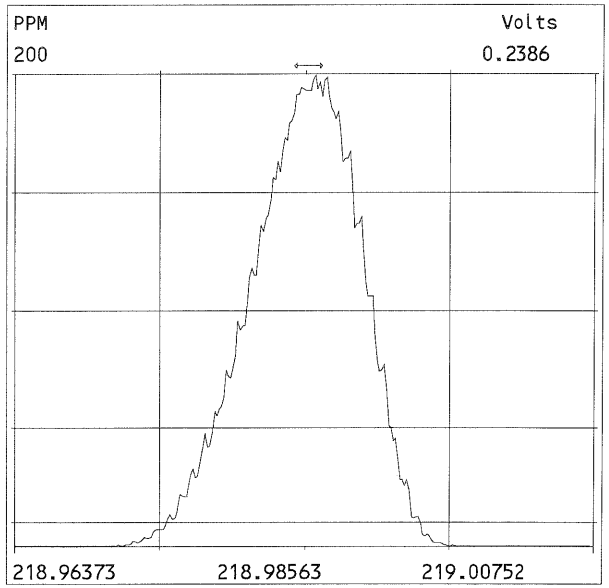


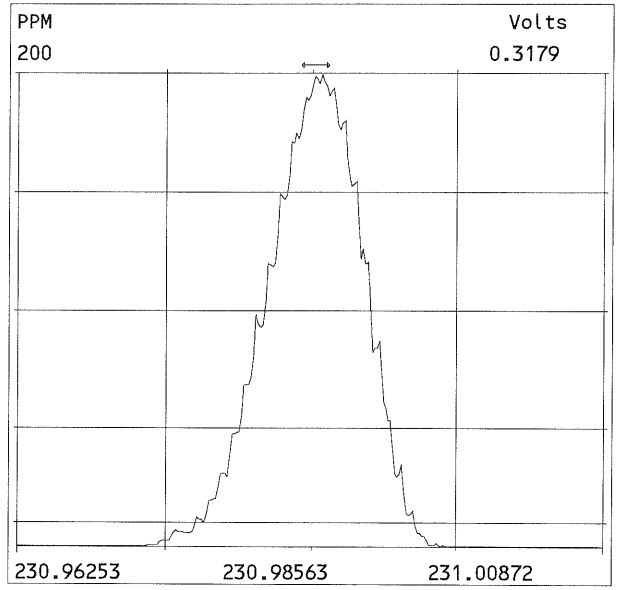


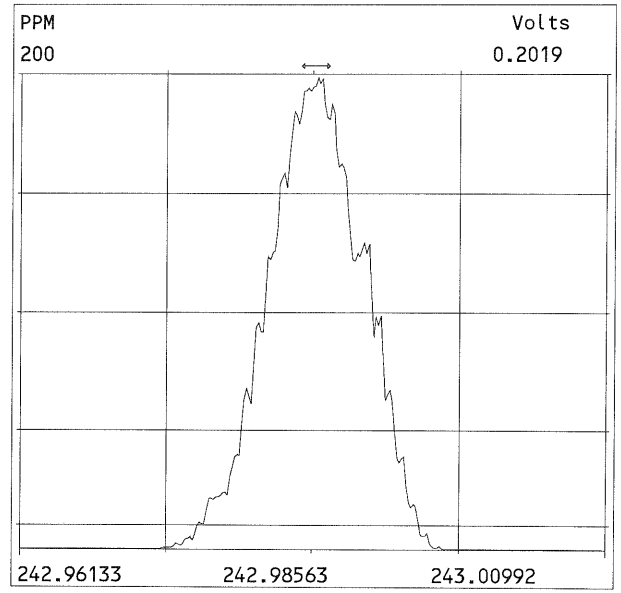


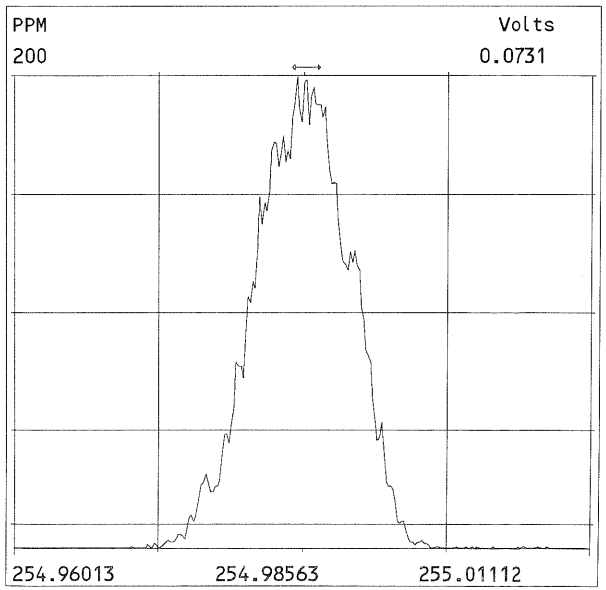


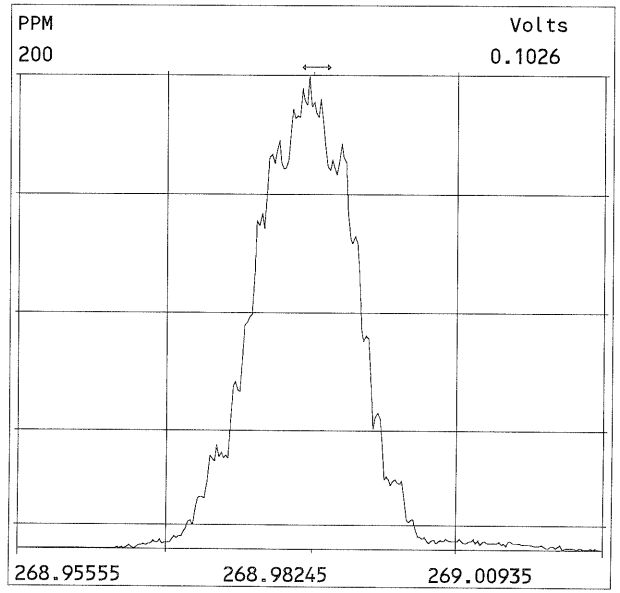
Peak Locate Examination:12-AUG-2016:07:42 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:2 Reference:PFK

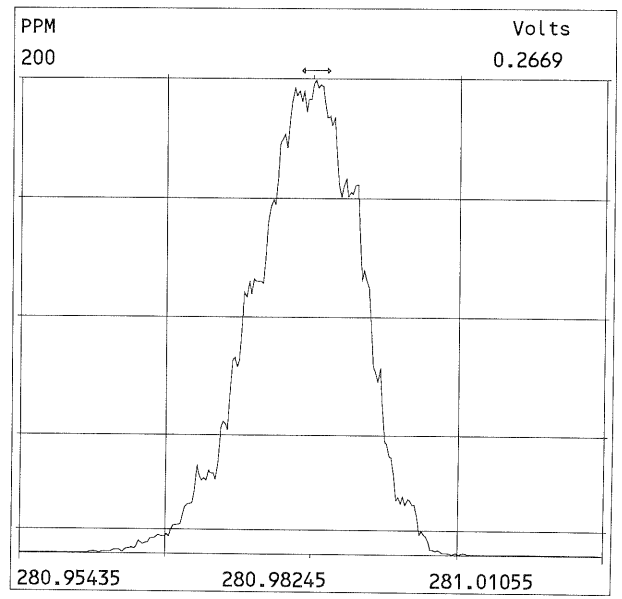




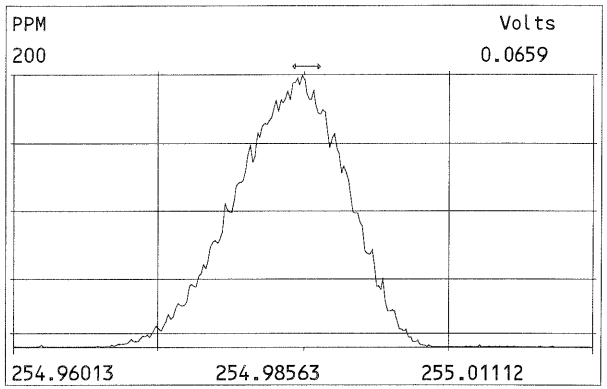


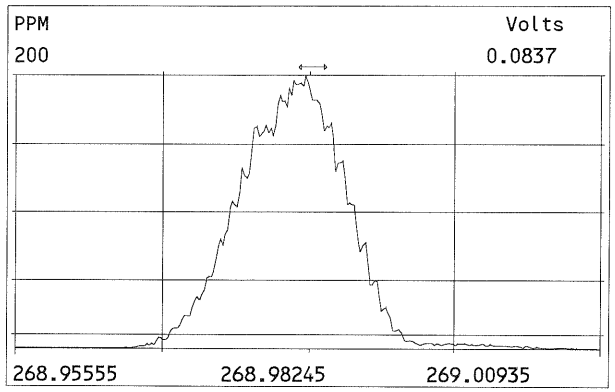


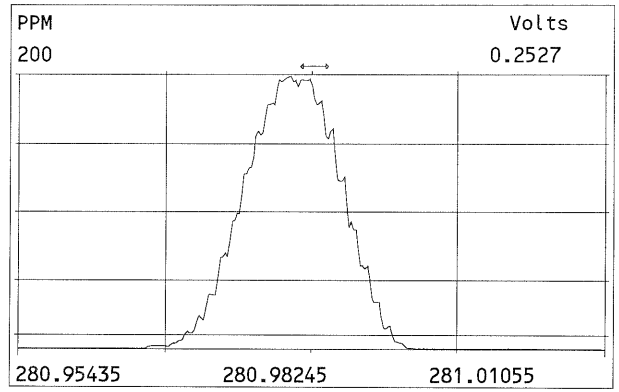


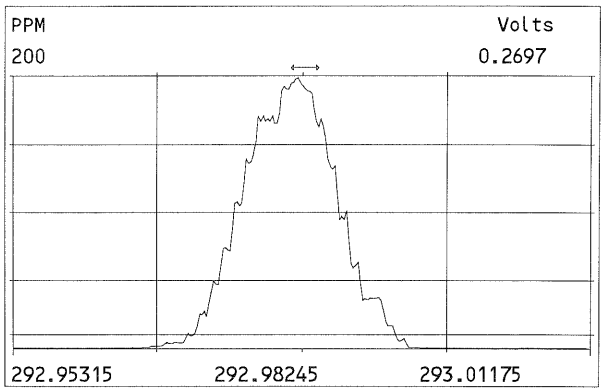


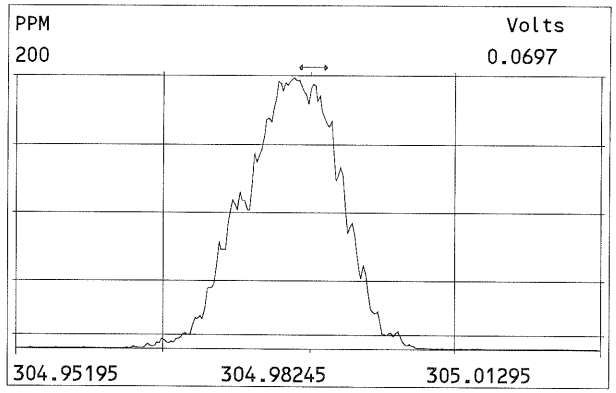
Peak Locate Examination:12-AUG-2016:07:43 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:3 Reference:PFK

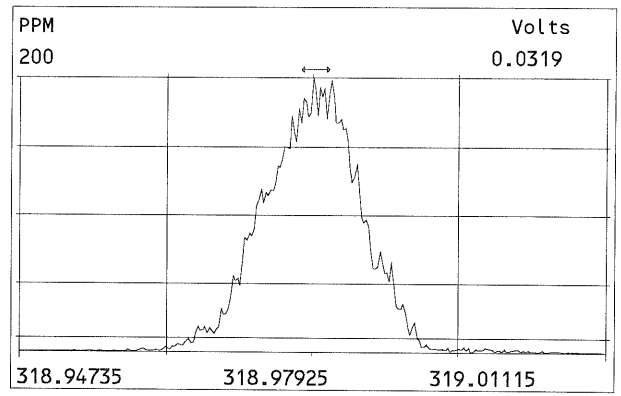


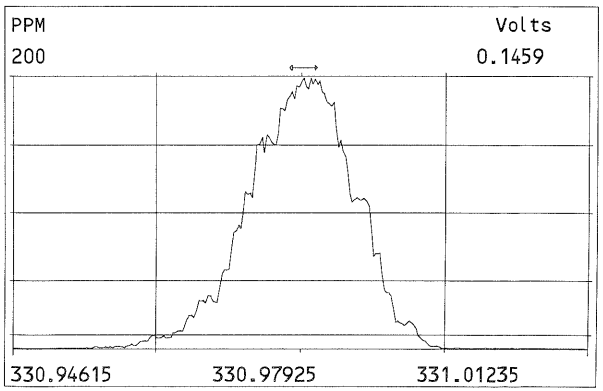


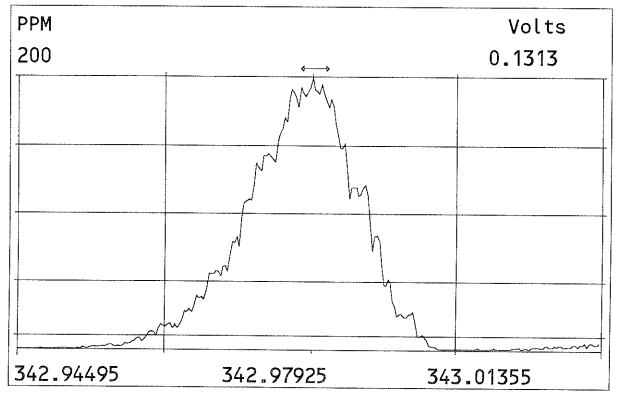




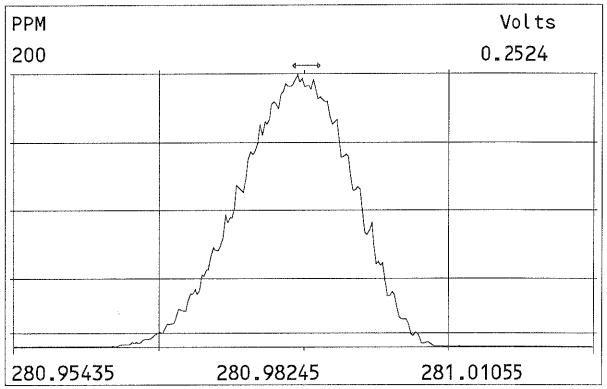


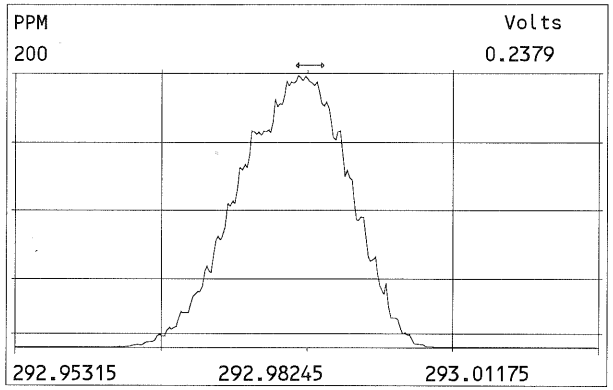


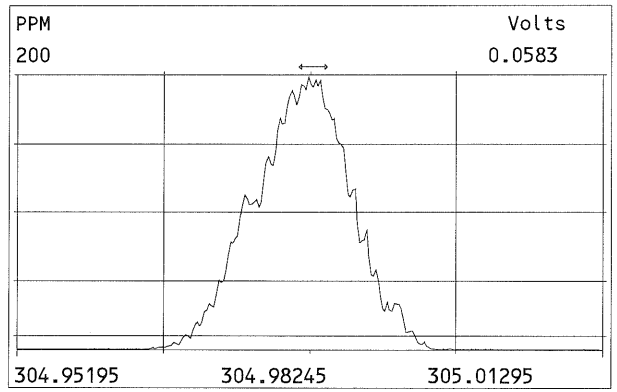


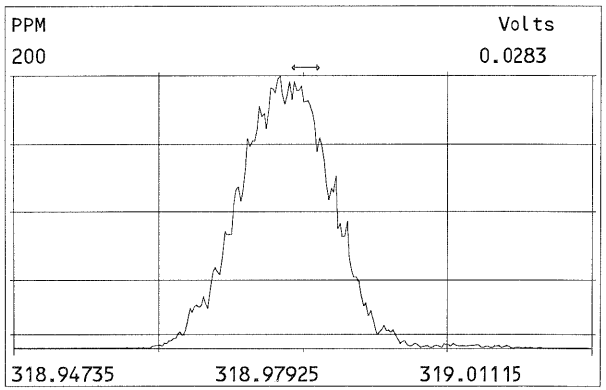


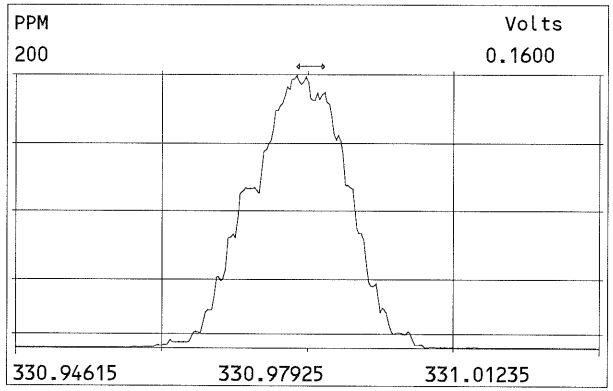
Peak Locate Examination:12-AUG-2016:07:43 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:4 Reference:PFK

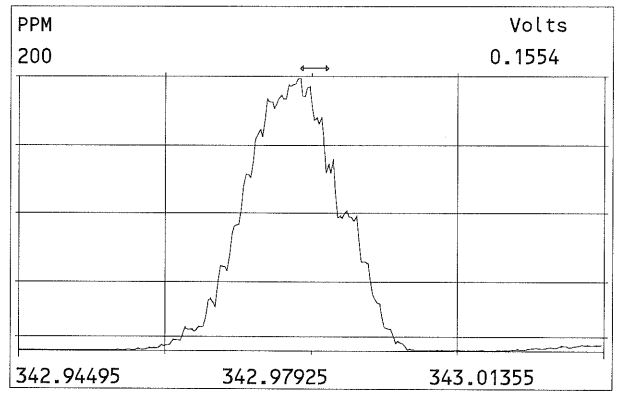


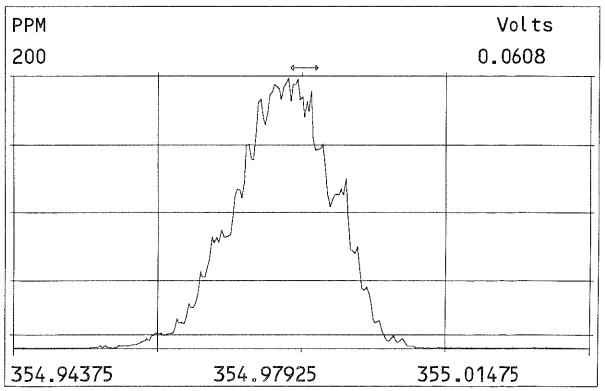


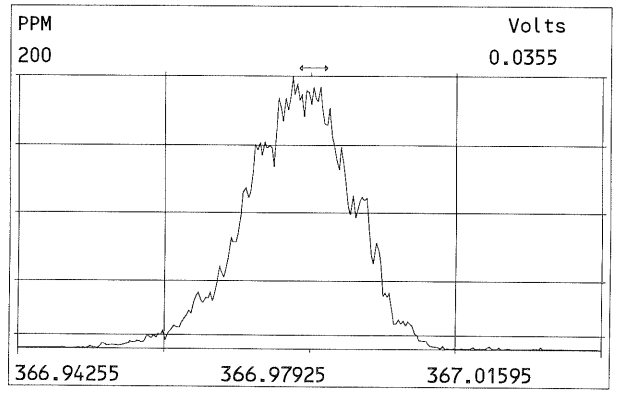


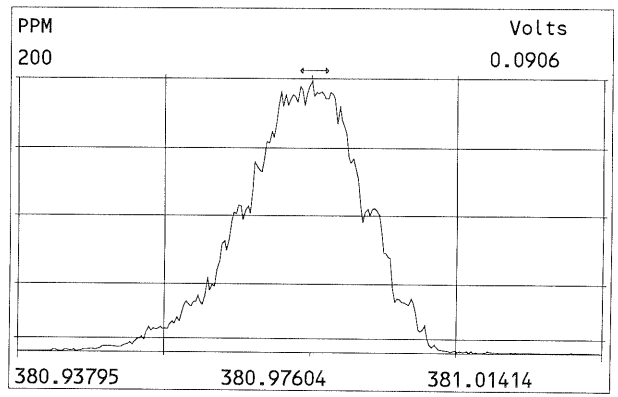




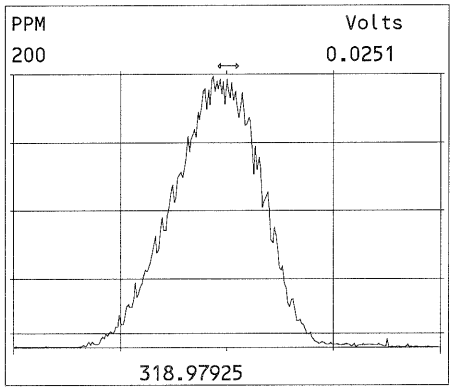


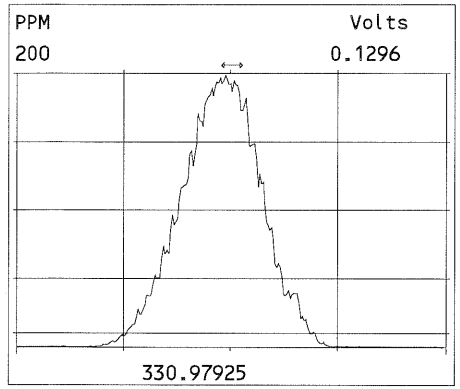


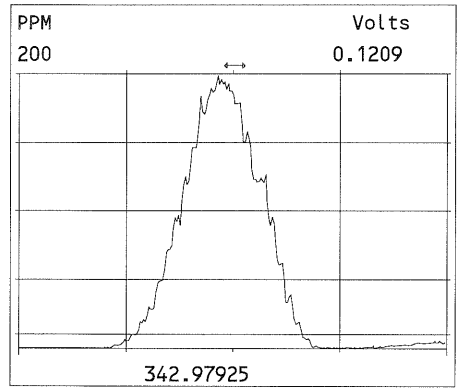


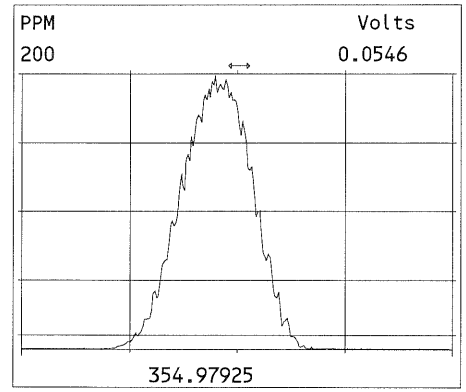


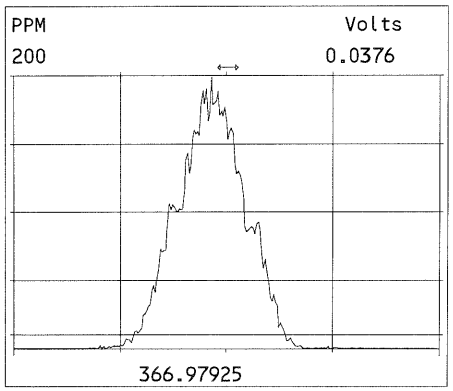
Peak Locate Examination:12-AUG-2016:07:44 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:5 Reference:PFK

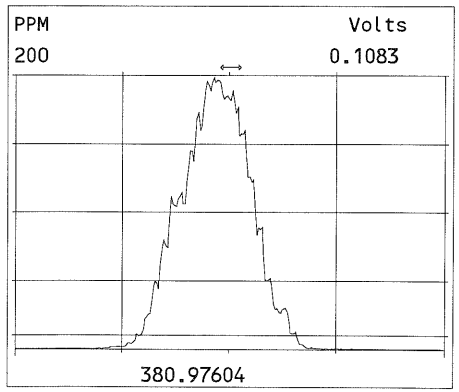


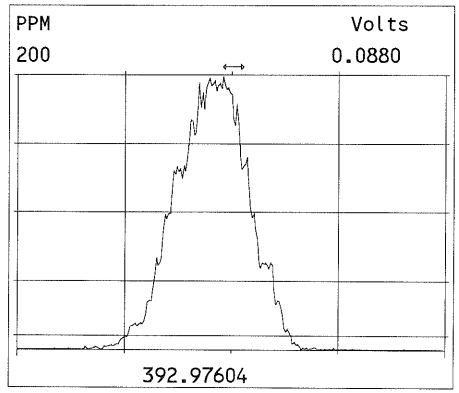


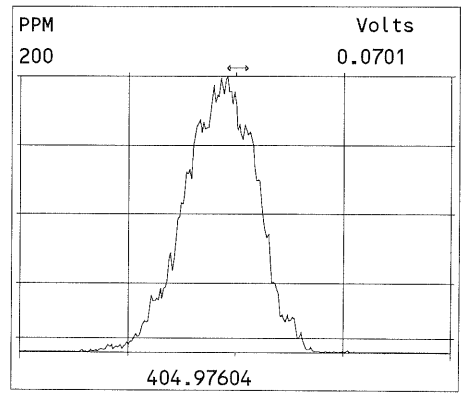


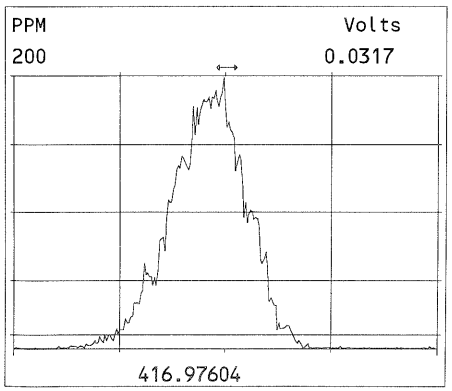


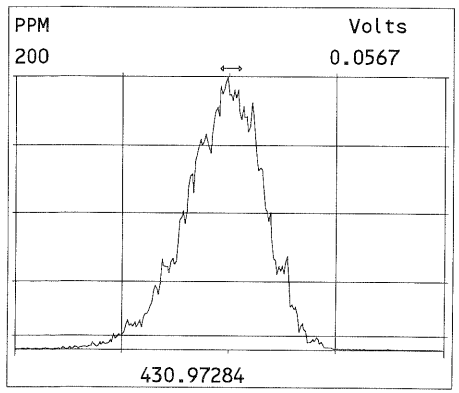


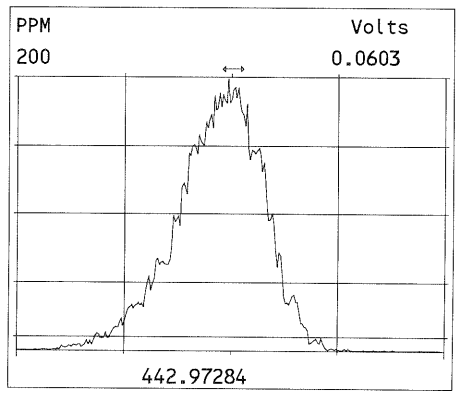




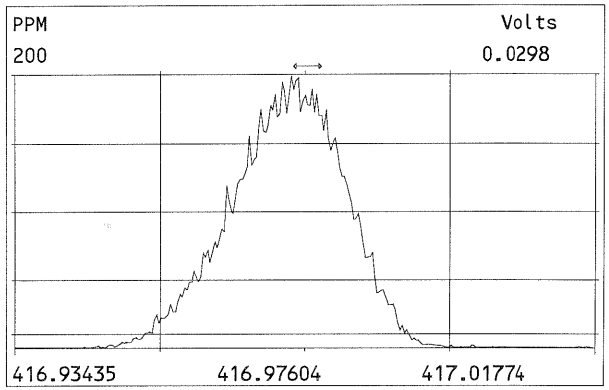


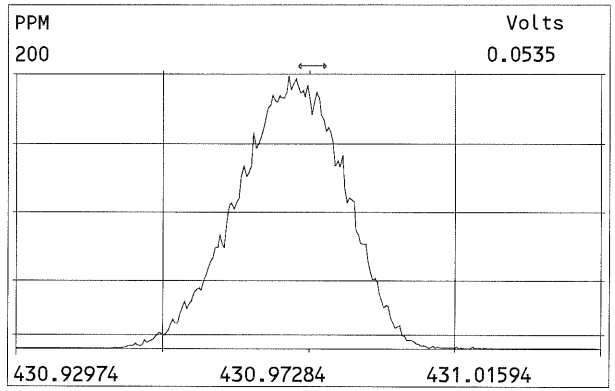


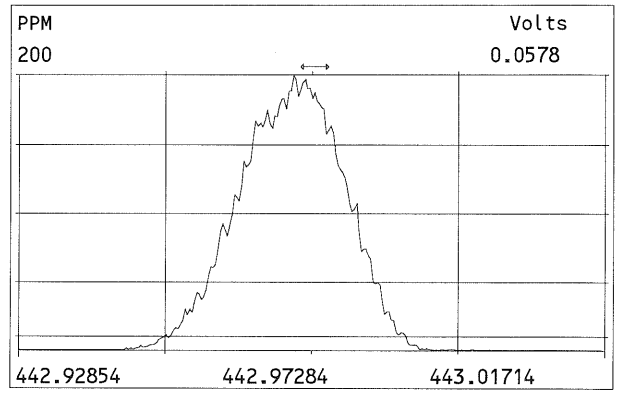


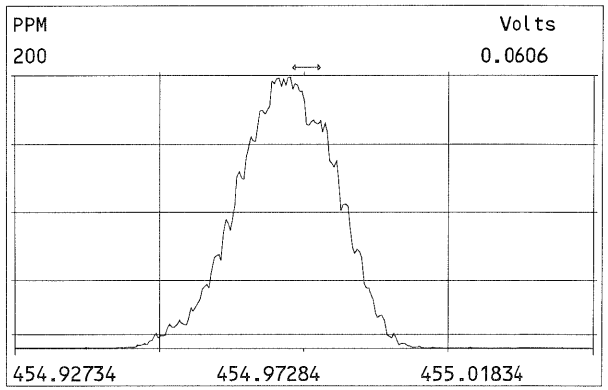


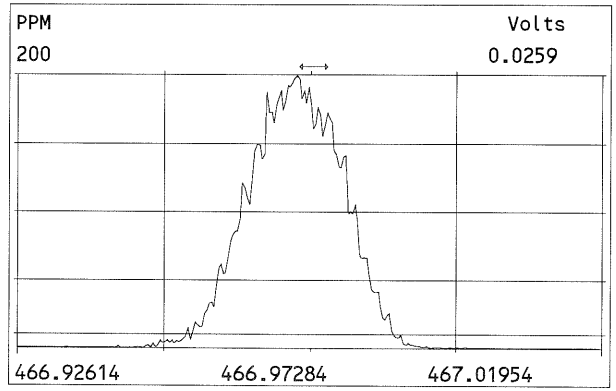
Peak Locate Examination:12-AUG-2016:07:44 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:6 Reference:PFK

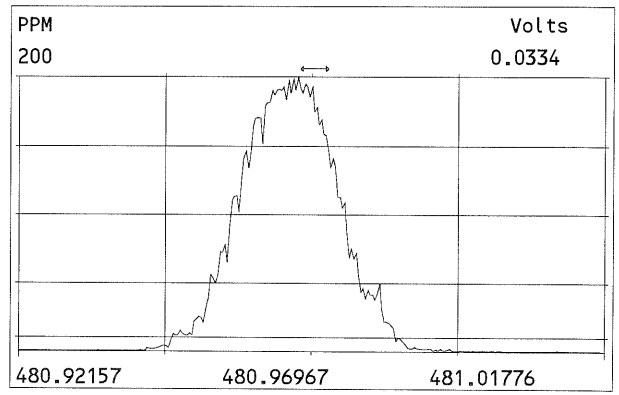


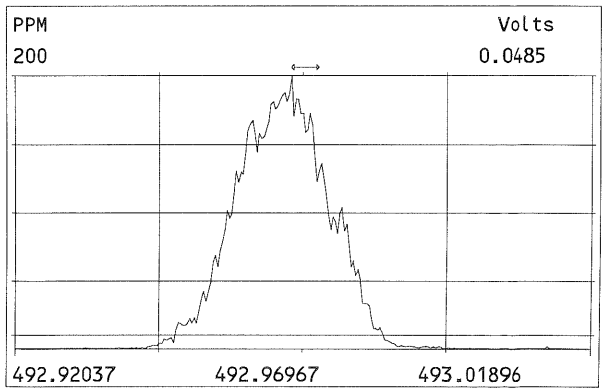


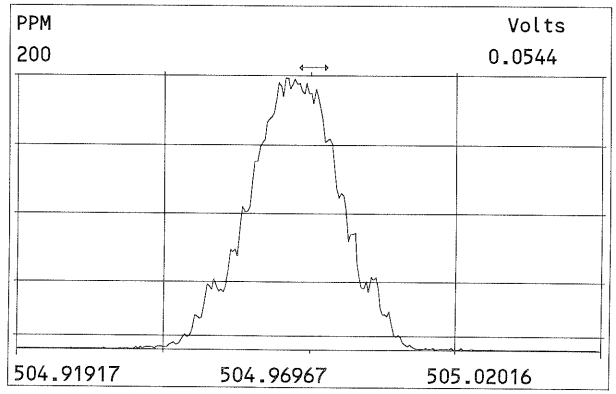


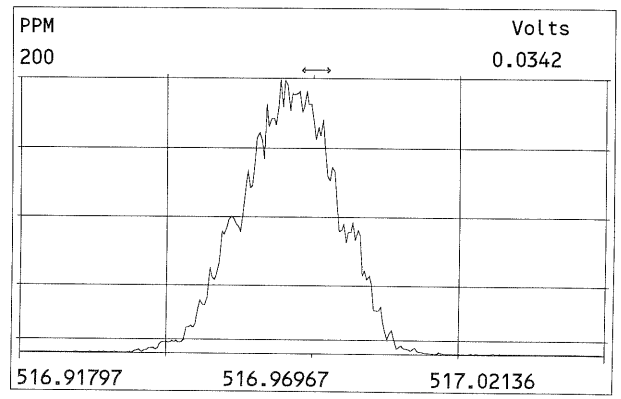












USEPA - ITD

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: 06JAN17Z Sam:1 Analysis Date: 6-JAN-17 08:14:16

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.13	2.66-3.60	y	44.9	37.5 - 62.5
PCB-3	M/M+2	3.13	2.66-3.60	y	45.4	37.5 - 62.5
PCB-4	M/M+2	1.51	1.33-1.79	y	45.7	37.5 - 62.5
PCB-15	M/M+2	1.52	1.33-1.79	y	45.0	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	43.3	37.5 - 62.5
PCB-37	M/M+2	1.00	0.88-1.20	y	46.2	37.5 - 62.5
PCB-54	M/M+2	0.77	0.65-0.89	y	47.5	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	47.1	37.5 - 62.5
PCB-81	M/M+2	0.79	0.65-0.89	y	48.4	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	45.1	37.5 - 62.5
PCB-105	M+2/M+4	1.53	1.32-1.78	y	47.3	37.5 - 62.5
PCB-114	M+2/M+4	1.54	1.32-1.78	y	47.4	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	49.0	37.5 - 62.5
PCB-123	M+2/M+4	1.52	1.32-1.78	y	48.4	37.5 - 62.5
PCB-126	M+2/M+4	1.54	1.32-1.78	y	46.7	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	46.0	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	48.5	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	49.4	37.5 - 62.5
PCB-167	M+2/M+4	1.24	1.05-1.43	y	48.7	37.5 - 62.5
PCB-169	M+2/M+4	1.22	1.05-1.43	y	47.4	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	46.8	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	46.6	37.5 - 62.5
PCB-202	M+2/M+4	0.88	0.76-1.02	y	45.5	37.5 - 62.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	52.5	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	48.8	37.5 - 62.5
PCB-208	M+4/M+6	1.37	1.13-1.53	y	48.6	37.5 - 62.5
PCB-209	M+4/M+6	1.17	0.99-1.33	y	49.5	37.5 - 62.5

Analyst: _____ Date: 1/9/17

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: 06JAN17Z Sam:1 Analysis Date: 6-JAN-17 08:14:16

	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	3.08	2.66-3.60	y	107	50.0 - 145
13C-PCB-3	M/M+2	3.14	2.66-3.60	y	111	50.0 - 145
13C-PCB-4	M/M+2	1.58	1.33-1.79	y	94.1	50.0 - 145
13C-PCB-15	M/M+2	1.59	1.33-1.79	y	106	50.0 - 145
13C-PCB-19	M/M+2	1.06	0.88-1.20	y	119	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	83.4	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	93.1	50.0 - 145
13C-PCB-77	M/M+2	0.78	0.65-0.89	y	87.4	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	85.3	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	116	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	87.5	50.0 - 145
13C-PCB-114	M+2/M+4	1.59	1.32-1.78	y	88.3	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	88.2	50.0 - 145
13C-PCB-123	M+2/M+4	1.57	1.32-1.78	y	91.0	50.0 - 145
13C-PCB-126	M+2/M+4	1.59	1.32-1.78	y	88.2	50.0 - 145
13C-PCB-155	M+2/M+4	1.27	1.05-1.43	y	111	50.0 - 145
13C-PCB-156	M+2/M+4	1.27	1.05-1.43	y	101	50.0 - 145
13C-PCB-157	M+2/M+4	1.25	1.05-1.43	y	98.6	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	1.25	1.05-1.43	y	105	50.0 - 145
13C-PCB-188	M+2/M+4	1.04	0.89-1.21	y	112	50.0 - 145
13C-PCB-189	M+2/M+4	1.05	0.89-1.21	y	121	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	91.3	50.0 - 145
13C-PCB-206	M+2/M+4	0.78	0.65-0.89	y	106	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	106	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	104	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	79.6	65.0 - 135
13C-PCB-111	M+2/M+4	1.57	1.32-1.78	y	102	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	119	75.0 - 125

Analyst: _____ Date: 1/9/17

FAL ID: ST010617Z1 Filename: 06JAN17Z Sam:1 Acquired: 6-JAN-17 08:14:16 ICal: 1668FAL4-8-11-16
Client ID: CS351 ConCal: ST010617Z1 EndCal: ST010617Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	2.87e+07	3.13 y	14:32	1.05	44.9		2.50	-	-	*	-
13C-PCB-1	6.09e+07	3.08 y	14:31	1.14	107		2.50				107
PCB-3	2.92e+07	3.13 y	16:58	1.05	45.4		2.50	-	-	*	-
13C-PCB-3	6.15e+07	3.14 y	16:57	1.11	111		2.50				111
PCB-4	1.65e+07	1.51 y	18:13	1.14	45.7		2.50	-	-	*	-
13C-PCB-4	3.18e+07	1.58 y	18:11	0.68	94.1		2.50				94.1
PCB-15	2.66e+07	1.52 y	23:46	1.09	45.0		2.50	-	-	*	-
13C-PCB-15	5.42e+07	1.59 y	23:45	1.02	106		2.50				106
PCB-19	1.83e+07	1.04 y	22:07	1.16	43.3		2.50	-	-	*	-
13C-PCB-19	3.65e+07	1.06 y	22:05	0.61	119		2.50				119
13C-PCB-9	5.00e+07	1.56 y	19:53	-	36.6		2.50				
PCB-37	2.25e+07	1.00 y	30:26	1.14	46.2		2.50	-	-	*	-
13C-PCB-37	4.26e+07	1.09 y	30:25	1.38	83.4		2.50				83.4
PCB-54	2.16e+07	0.77 y	25:39	1.05	47.5		2.50	-	-	*	-
13C-PCB-54	4.33e+07	0.79 y	25:38	1.25	93.1		2.50				93.1
PCB-104	2.02e+07	1.59 y	30:07	1.14	45.1		2.50	-	-	*	-
13C-PCB-104	3.92e+07	1.59 y	30:04	0.91	116		2.50				116
13C-PCB-28	4.38e+07	1.07 y	26:43	1.48	79.6		2.50				79.6
13C-PCB-52	3.71e+07	0.78 y	29:00	-	44.6		2.50				
PCB-81	2.09e+07	0.79 y	36:13	1.14	48.4		2.50	-	-	*	-
13C-PCB-81	3.78e+07	0.80 y	36:12	1.27	85.3		2.50				85.3
PCB-77	2.01e+07	0.79 y	36:46	1.10	47.1		2.50	-	-	*	-
13C-PCB-77	3.87e+07	0.78 y	36:46	1.27	87.4		2.50				87.4
PCB-155	2.14e+07	1.27 y	34:17	1.11	46.0		2.50	-	-	*	-
13C-PCB-155	4.20e+07	1.27 y	34:16	1.09	111		2.50				111
13C-PCB-111	4.46e+07	1.57 y	36:22	1.25	102		2.50				102
13C-PCB-101	3.49e+07	1.57 y	34:42	-	47.8		2.50				
PCB-123	1.73e+07	1.52 y	38:26	1.05	48.4		2.50	-	-	*	-
13C-PCB-123	3.41e+07	1.57 y	38:24	1.20	91.0		2.50				91.0
PCB-118	1.88e+07	1.56 y	38:36	1.07	49.0		2.50	-	-	*	-
13C-PCB-118	3.61e+07	1.61 y	38:34	1.31	88.2		2.50				88.2
PCB-114	1.74e+07	1.54 y	39:12	1.08	47.4		2.50	-	-	*	-
13C-PCB-114	3.39e+07	1.59 y	39:12	1.23	88.3		2.50				88.3
PCB-105	1.73e+07	1.53 y	40:01	1.08	47.3		2.50	-	-	*	-
13C-PCB-105	3.38e+07	1.60 y	39:60	1.24	87.5		2.50				87.5
PCB-126	1.61e+07	1.54 y	42:10	1.07	46.7		2.50	-	-	*	-
13C-PCB-126	3.22e+07	1.59 y	42:08	1.17	88.2		2.50				88.2
PCB-167	1.86e+07	1.24 y	43:32	0.98	48.7		2.50	-	-	*	-
13C-PCB-167	3.89e+07	1.28 y	43:30	1.24	101		2.50				101
PCB-156	1.82e+07	1.25 y	44:46	1.01	48.5		2.50	-	-	*	-
13C-PCB-156	3.71e+07	1.27 y	44:44	1.18	101		2.50				101
PCB-157	1.79e+07	1.24 y	45:01	0.96	49.4		2.50	-	-	*	-
13C-PCB-157	3.76e+07	1.25 y	44:59	1.22	98.6		2.50				98.6
PCB-169	1.72e+07	1.22 y	46:53	1.00	47.4		2.50	-	-	*	-
13C-PCB-169	3.63e+07	1.25 y	46:53	1.11	105		2.50				105
PCB-188	2.19e+07	1.06 y	39:48	1.09	46.8		2.50	-	-	*	-
13C-PCB-188	4.29e+07	1.04 y	39:47	1.22	112		2.50				112
PCB-189	1.93e+07	1.05 y	48:33	1.14	46.6		2.50	-	-	*	-
13C-PCB-189	3.65e+07	1.05 y	48:33	0.97	121		2.50				121
PCB-202	1.80e+07	0.88 y	44:54	1.05	45.5		2.50	-	-	*	-
13C-PCB-202	3.74e+07	0.90 y	44:54	0.88	137		2.50				137
13C-PCB-178	2.85e+07	1.06 y	42:25	0.77	119		2.50				119
13C-PCB-138	3.12e+07	1.26 y	41:38	-	44.7		2.50				

FAL ID: ST010617Z1 Filename: 06JAN17Z Sam:1 Acquired: 6-JAN-17 08:14:16 ICal: 1668FAL4-8-11-16
Client ID: CS351 ConCal: ST010617Z1 EndCal: ST010617Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	1.48e+07	0.88 y	50:16	1.02	52.5	2.50	-	-	*	-
13C-PCB-205	2.77e+07	0.90 y	50:14	1.38	91.3	2.50				91.3
PCB-208	1.39e+07	1.37 y	49:17	0.93	48.6	2.50	-	-	*	-
13C-PCB-208	3.07e+07	0.81 y	49:17	1.31	106	2.50				106
PCB-206	1.08e+07	1.35 y	51:30	0.94	48.8	2.50	-	-	*	-
13C-PCB-206	2.36e+07	0.78 y	51:29	1.01	106	2.50				106
PCB-209	1.66e+07	1.17 y	52:45	1.10	49.5	2.50	-	-	*	-
13C-PCB-209	3.05e+07	1.20 y	52:43	1.34	104	2.50				104
13C-PCB-194	2.20e+07	0.91 y	49:59	-	43.7	2.50				

Analyst: _____ Date: 1/9/17

Frontier Analytical Laboratory - Acquisition Log

Run Name:06JAN17Z Instrument: FAL4 GC: DB1 Experiment:1668PCB

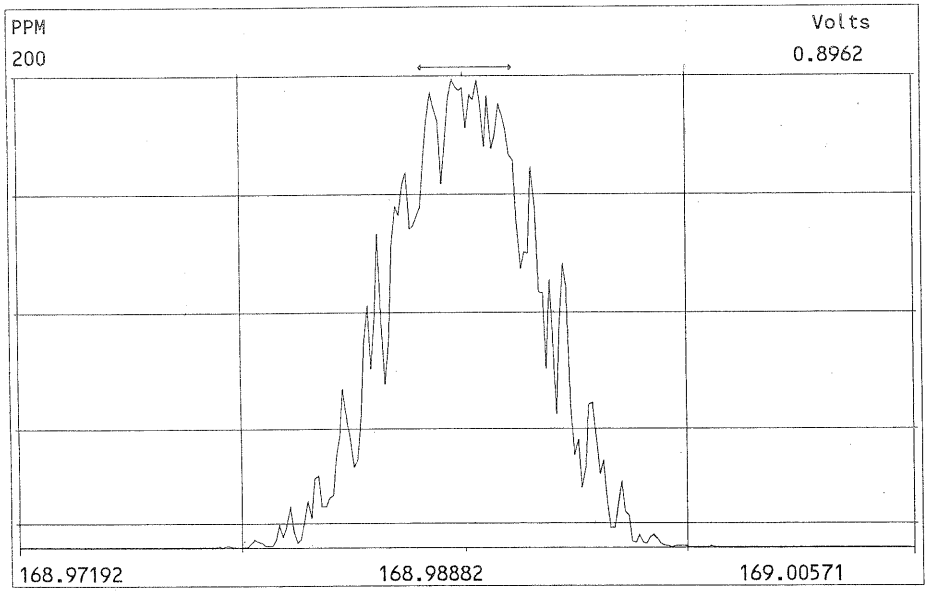
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
06JAN17Z	1	ST010617Z1	CS351	6-JAN-17 08:14:16	ST010617Z1	ST010617Z2	BS
06JAN17Z	2	SS010617Z1	CS20951	6-JAN-17 09:12:35	ST010617Z1	ST010617Z2	BS
06JAN17Z	3	03955-001-0001-MB	Method Blank	6-JAN-17 10:10:54	ST010617Z1	ST010617Z2	BS
06JAN17Z	4	03955-001-0001-OPR	OPR	6-JAN-17 11:09:13	ST010617Z1	ST010617Z2	BS
06JAN17Z	5	10322-001-0001-SA	LDW-BA-SU-S010-TB-EXSITU1	6-JAN-17 12:07:33	ST010617Z1	ST010617Z2	BS
06JAN17Z	6	10322-002-0001-SA	LDW-BA-SU-S010-TB-EXSITU2	6-JAN-17 13:05:52	ST010617Z1	ST010617Z2	BS
06JAN17Z	7	10322-003-0001-SA	LDW-BA-SU-S010-TB-EXSITU3	6-JAN-17 14:04:12	ST010617Z1	ST010617Z2	BS
06JAN17Z	8	10324-001-0001-SA	PC1311	6-JAN-17 15:02:32	ST010617Z1	ST010617Z2	BS
06JAN17Z	9	10324-002-0001-SA	PC1312	6-JAN-17 16:00:51	ST010617Z1	ST010617Z2	BS
06JAN17Z	10	10324-003-0001-SA	PC1313	6-JAN-17 16:59:11	ST010617Z1	ST010617Z2	BS
06JAN17Z	11	10324-004-0001-SA	PC1314	6-JAN-17 17:57:31	ST010617Z1	ST010617Z2	BS
06JAN17Z	12	10324-005-0001-SA	PC1315	6-JAN-17 18:55:50	ST010617Z1	ST010617Z2	BS
06JAN17Z	13	SB010617Z1	Solvent Blank	6-JAN-17 19:54:10	ST010617Z1	ST010617Z2	BS
06JAN17Z	14	ST010617Z2	CS352	6-JAN-17 20:52:29	ST010617Z1	ST010617Z2	BS

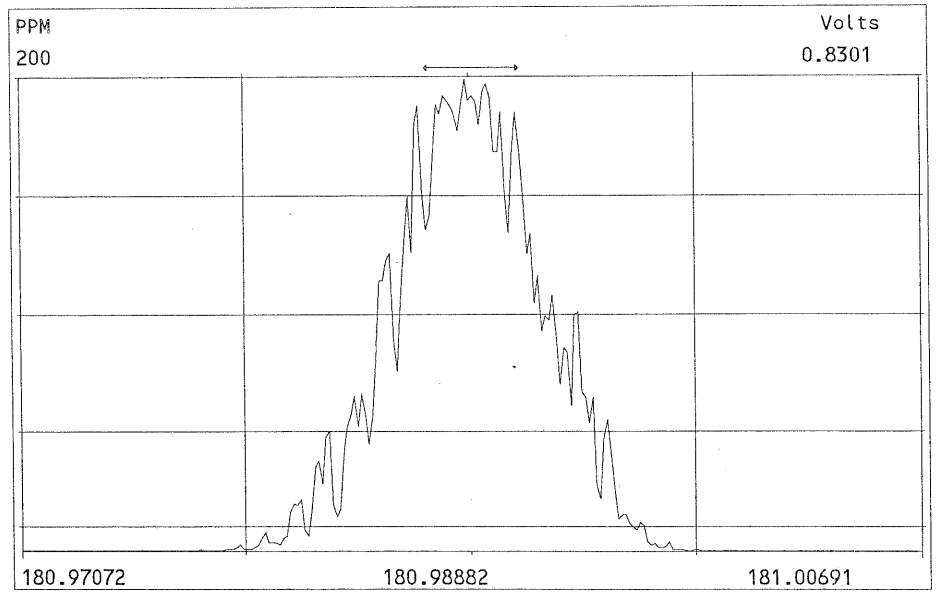
b 1/7/17

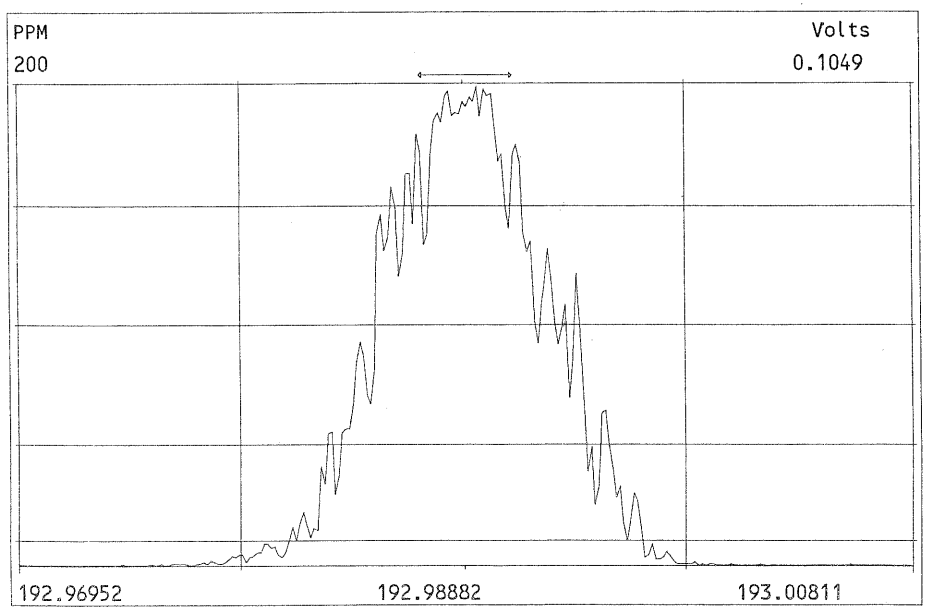
Data Backed Up:_____

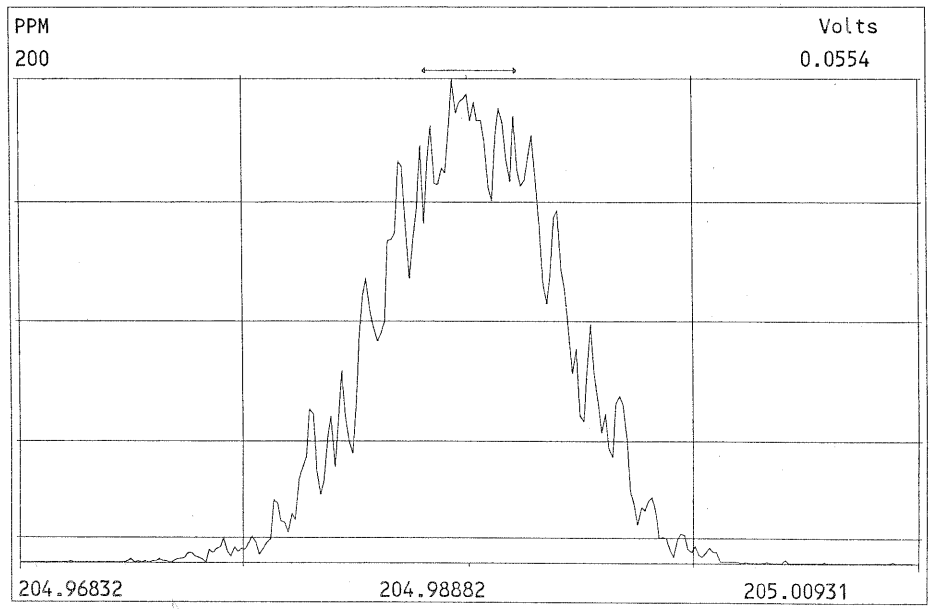
Date:_____

Peak Locate Examination: 6-JAN-2017:08:11 File:06JAN17Z
Experiment:1668PCB Function:1 Reference:PFK 5

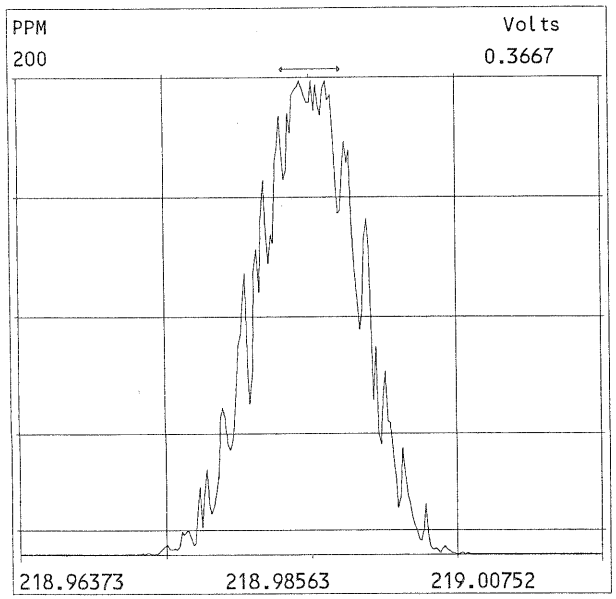


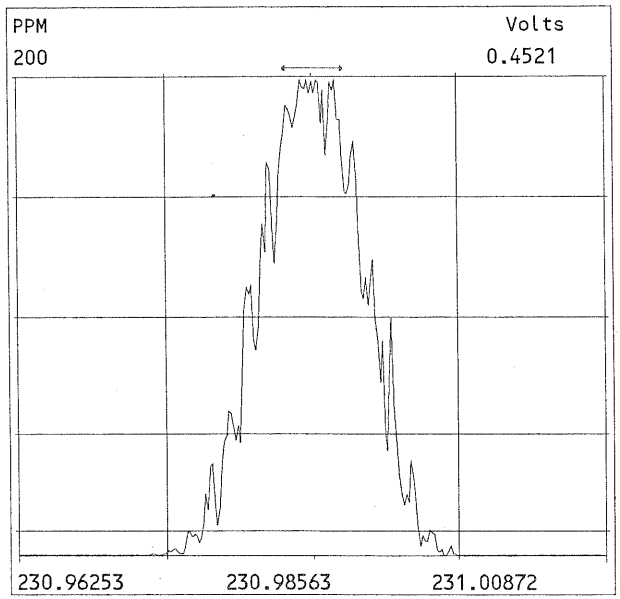


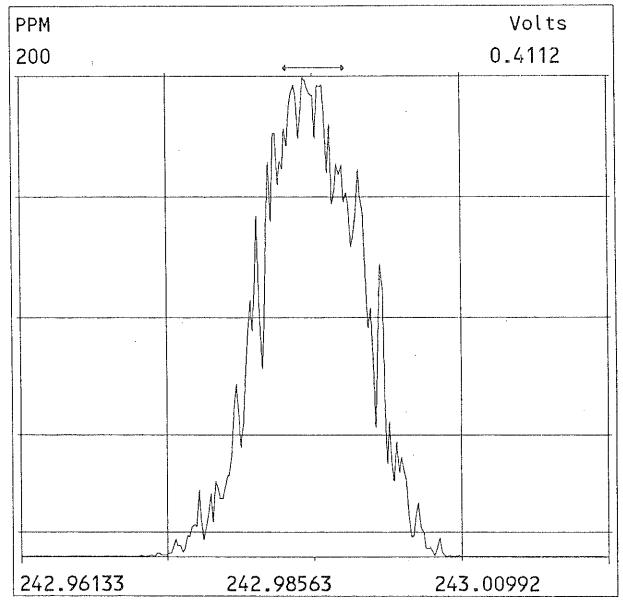


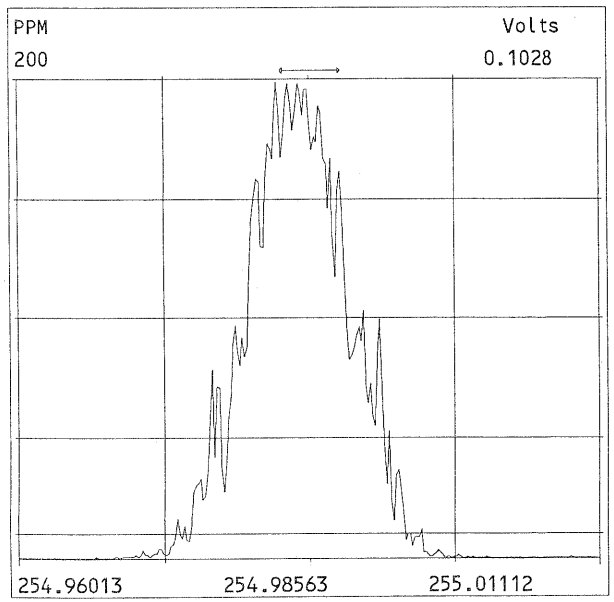


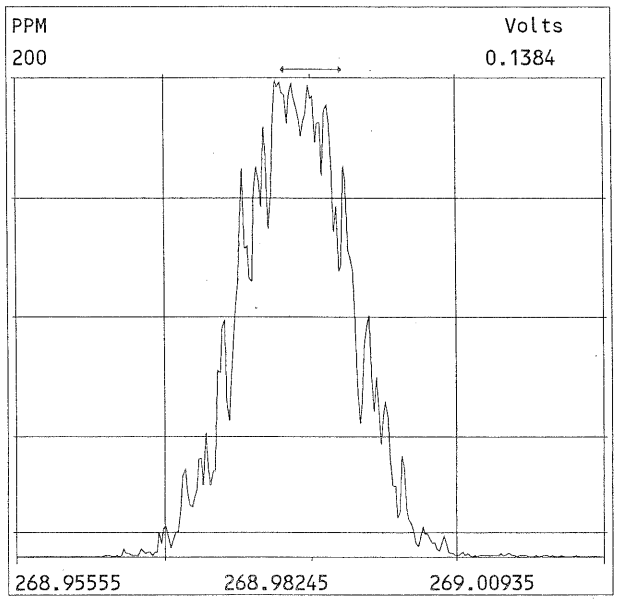
Peak Locate Examination: 6-JAN-2017:08:11 File:06JAN17Z
Experiment:1668PCB Function:2 Reference:PFK51

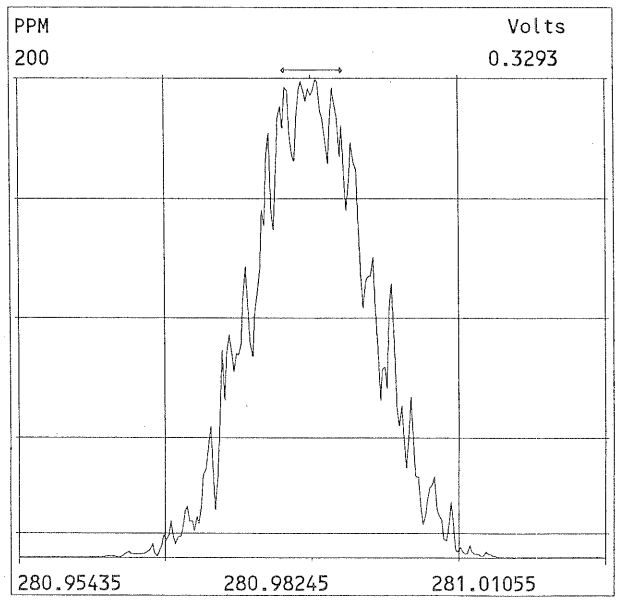




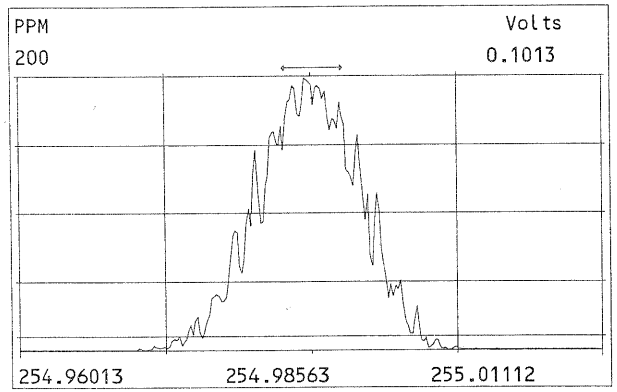


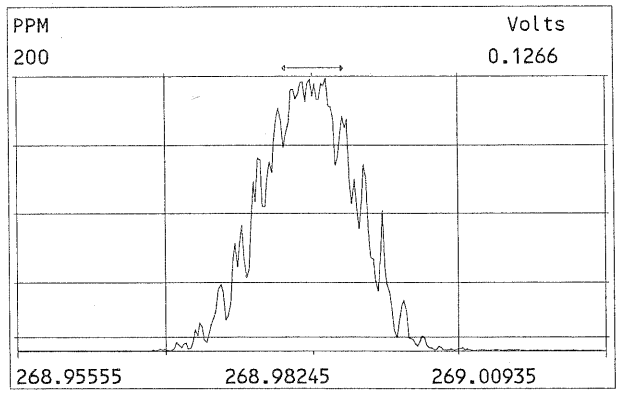


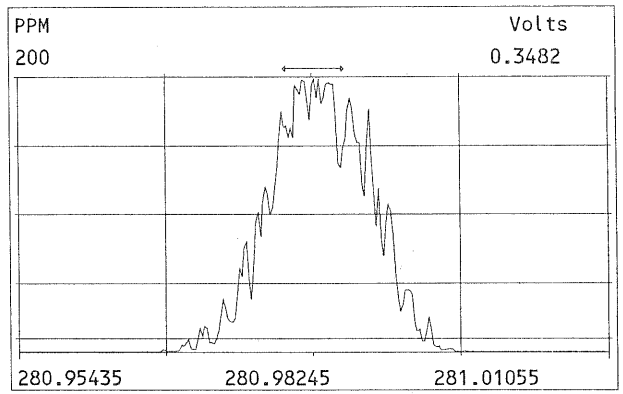


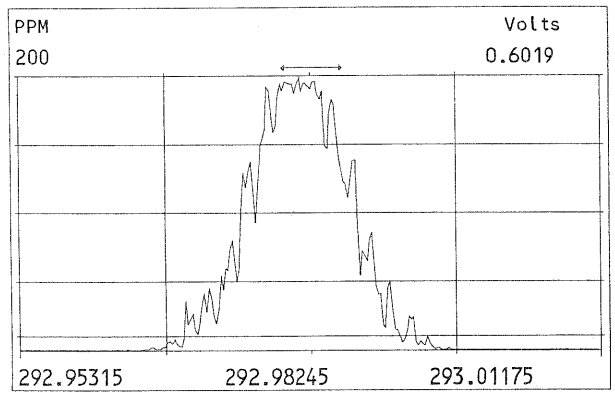


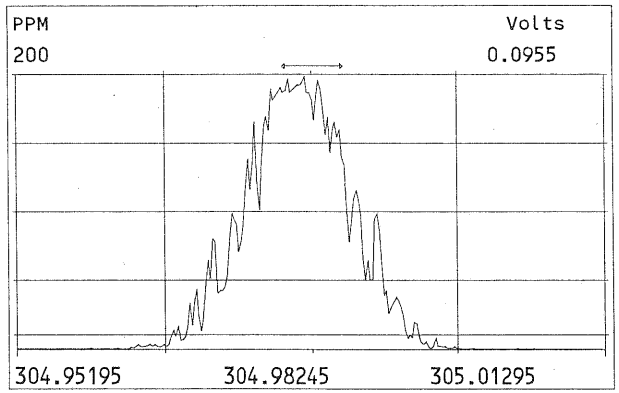
Peak Locate Examination: 6-JAN-2017:08:12 File:06JAN17Z
Experiment:1668PCB Function:3 Reference:PFK 5/

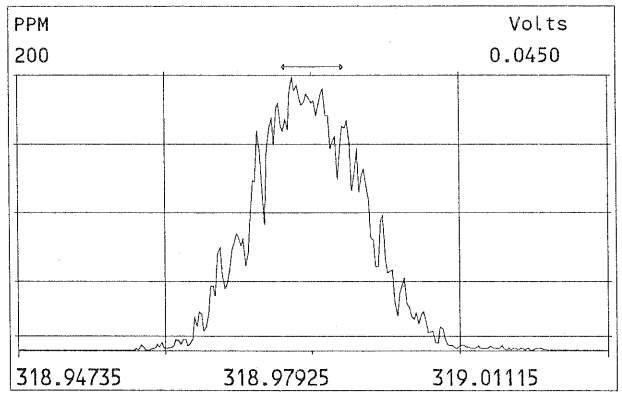


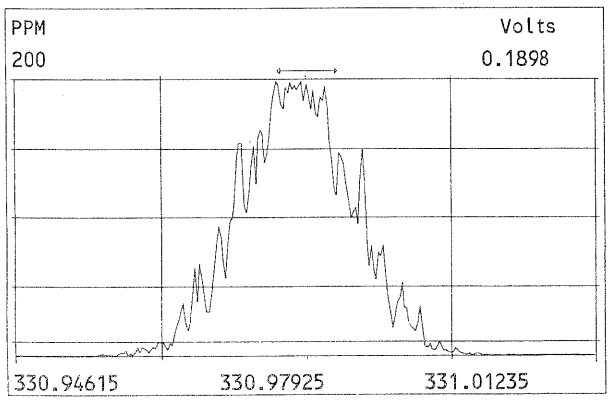


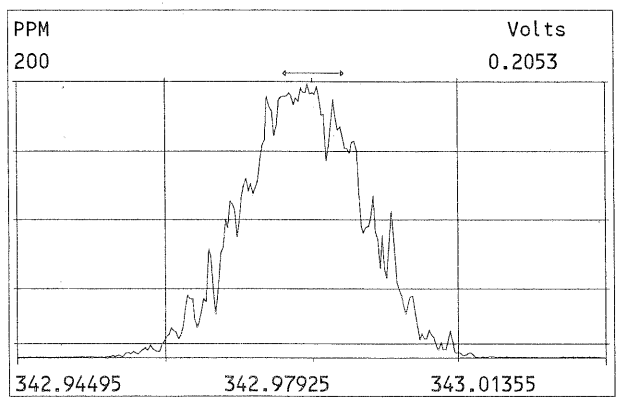




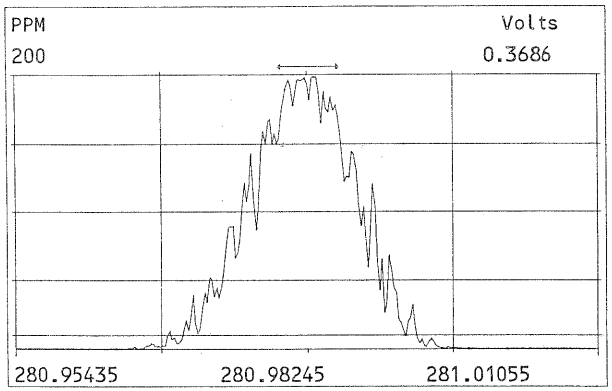


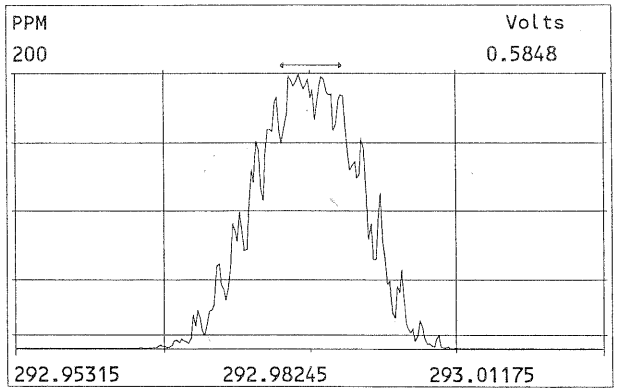


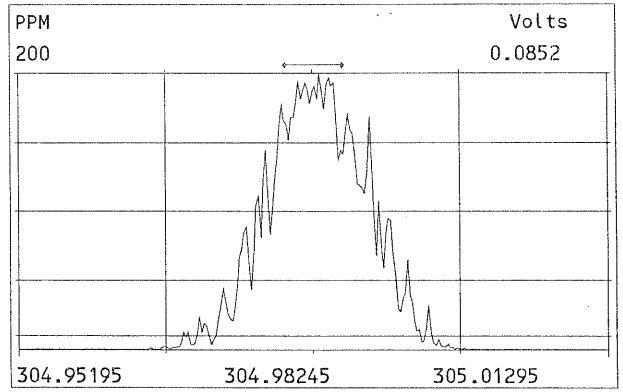


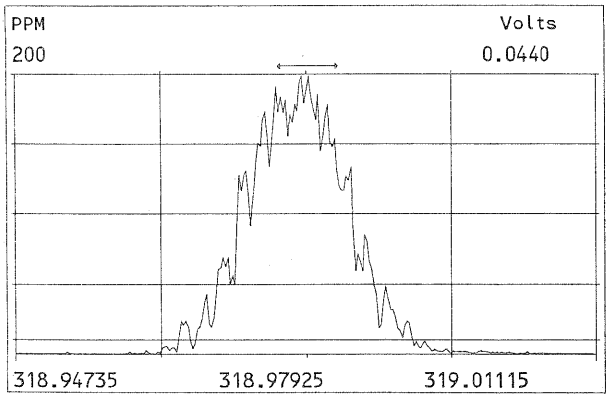


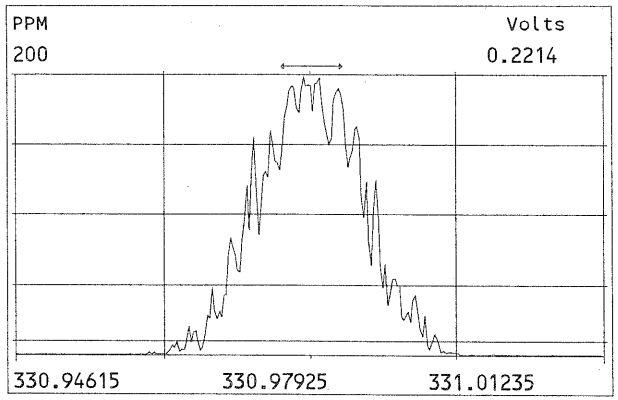
Peak Locate Examination: 6-JAN-2017:08:12 File:06JAN17Z
Experiment:1668PCB Function:4 Reference:PFK 51

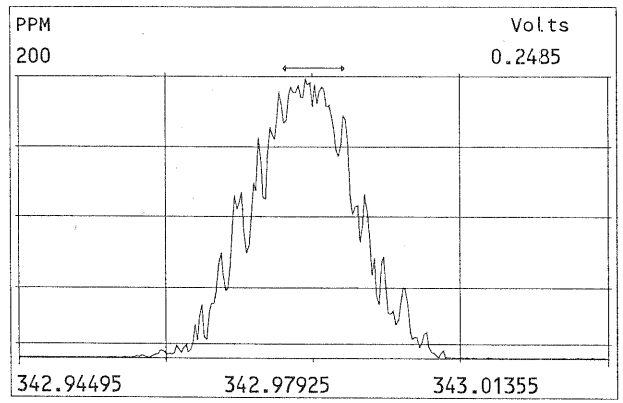


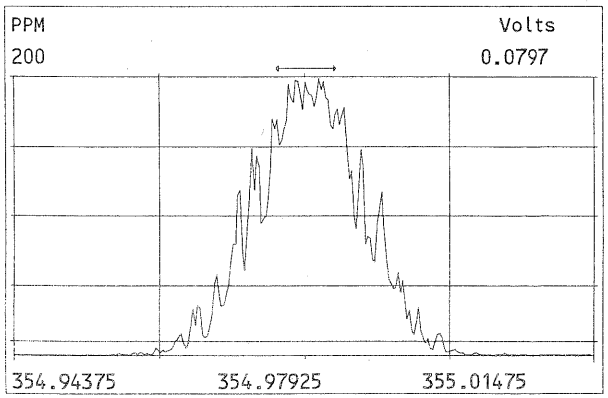


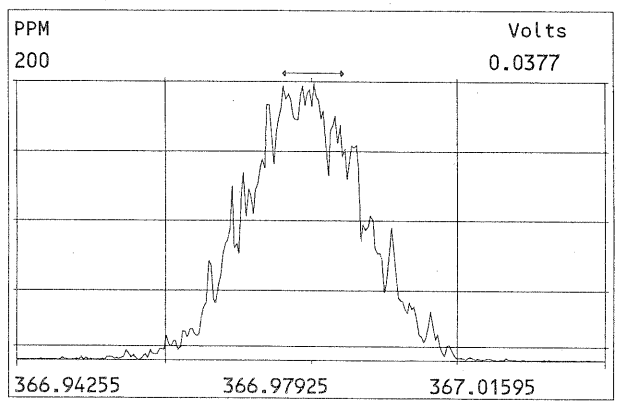


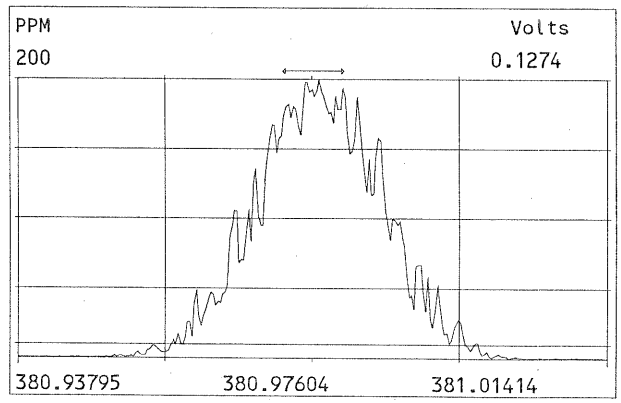




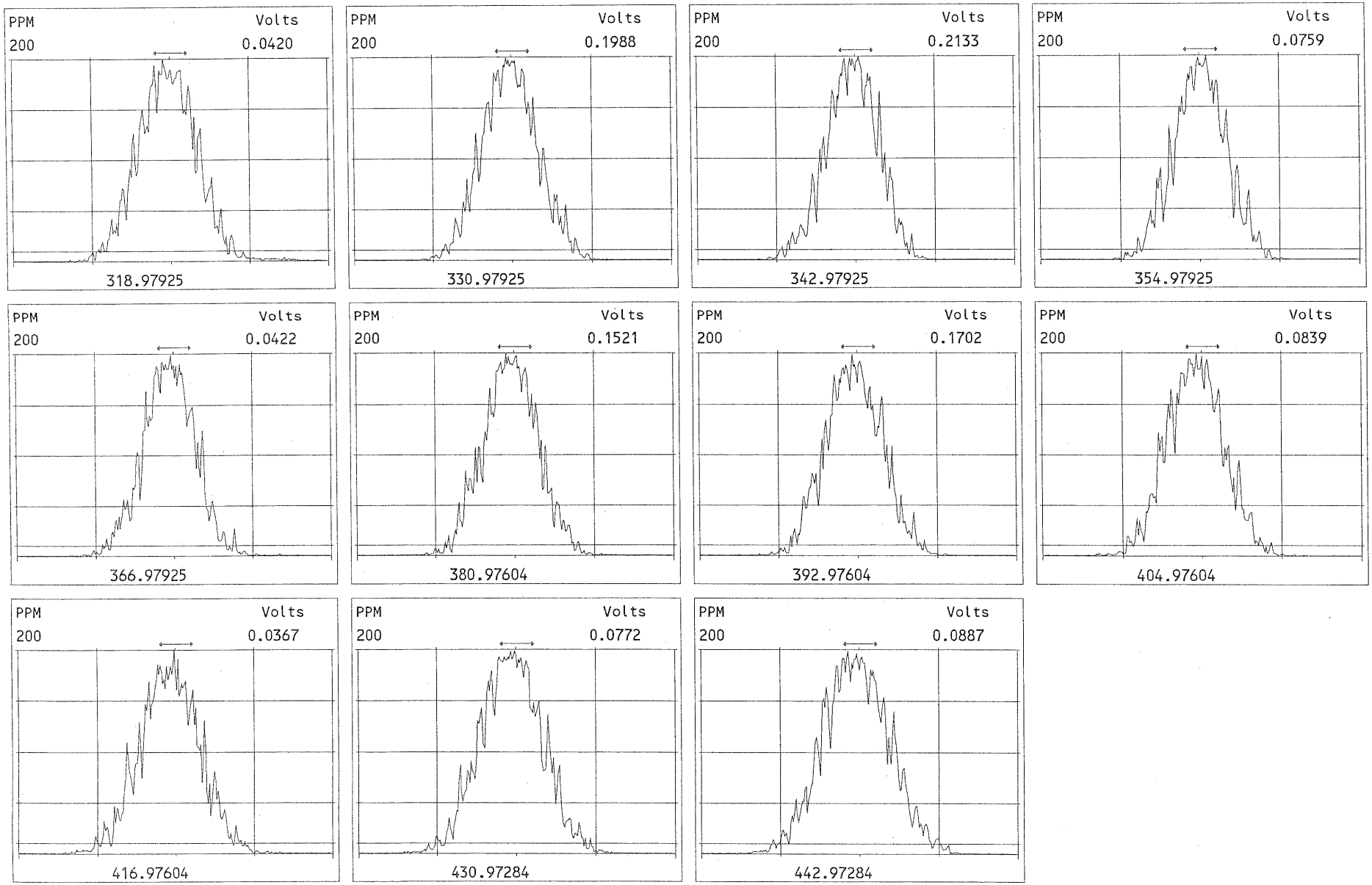




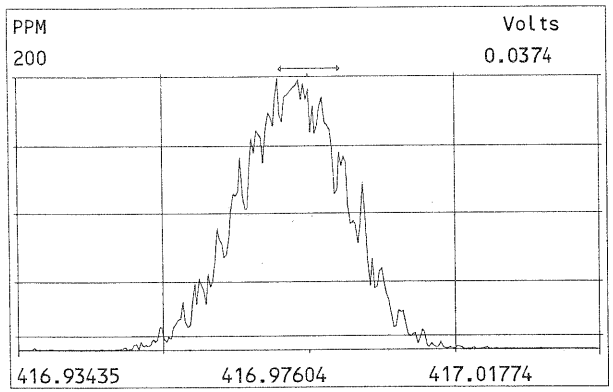


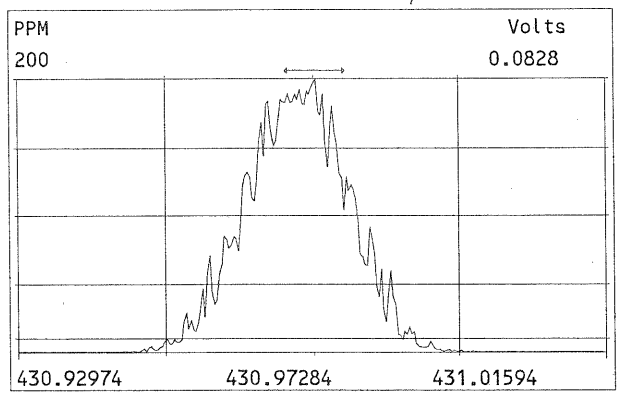


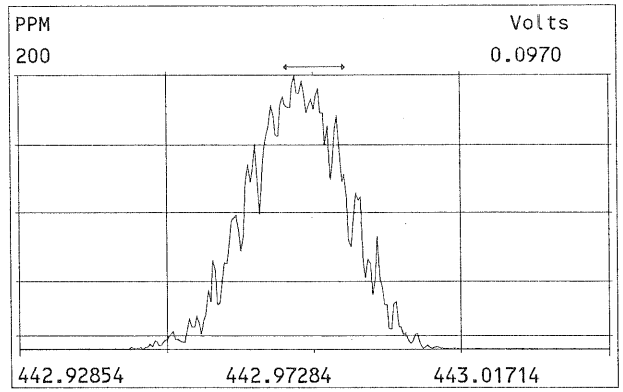
Peak Locate Examination: 6-JAN-2017:08:13 File:06JAN17Z
Experiment:1668PCB Function:5 Reference:PFK51

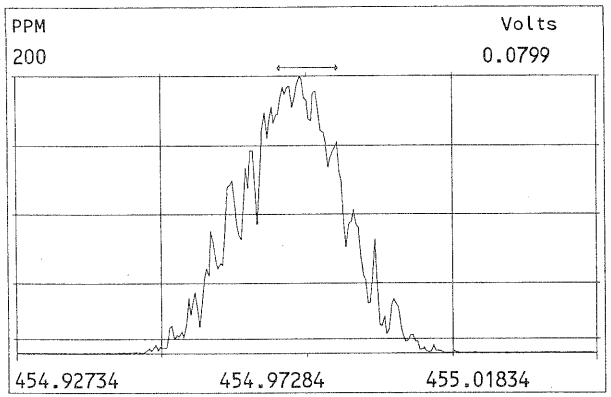


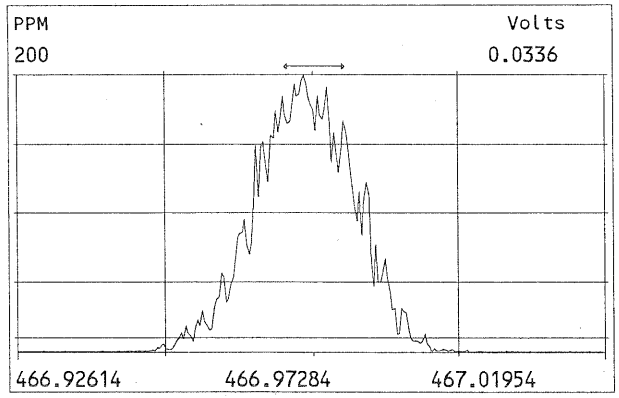
Peak Locate Examination: 6-JAN-2017:08:13 File:06JAN17Z
Experiment:1668PCB Function:6 Reference:PFK5/

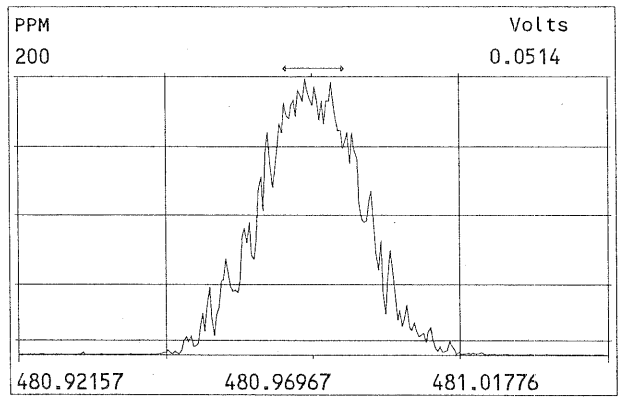


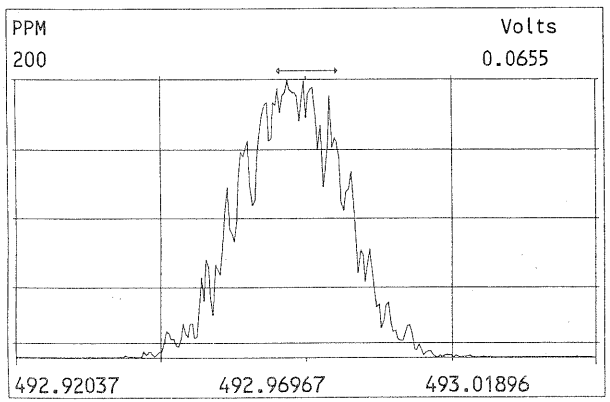


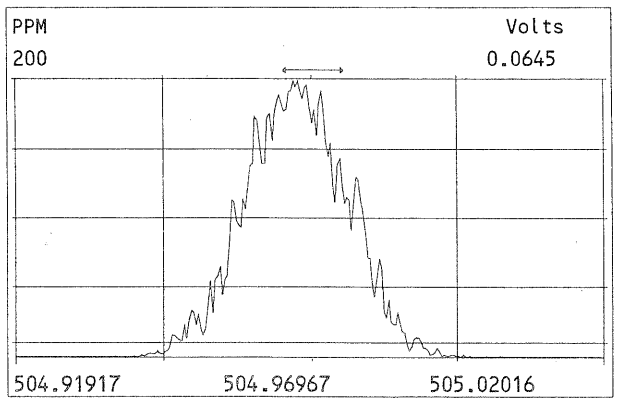


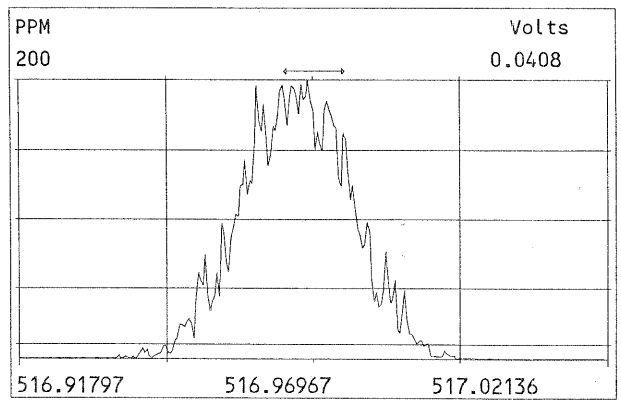




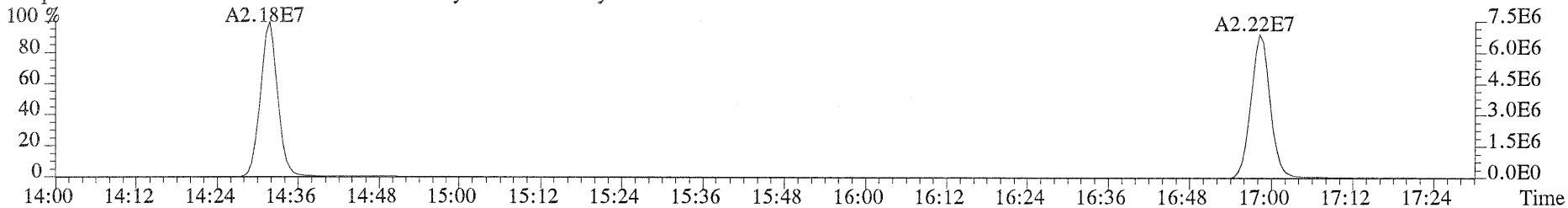




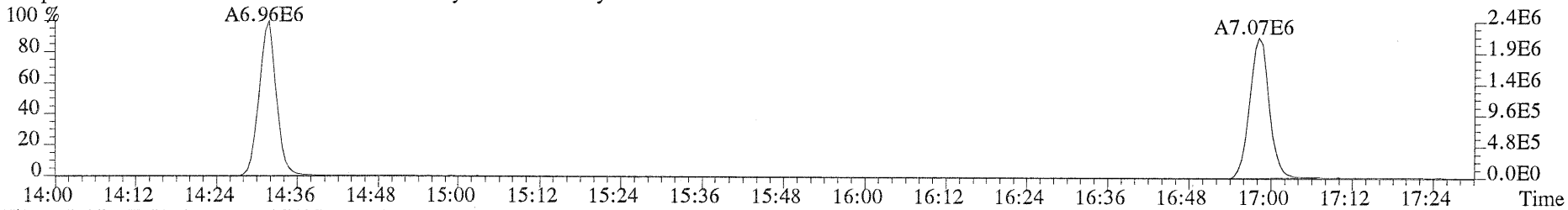




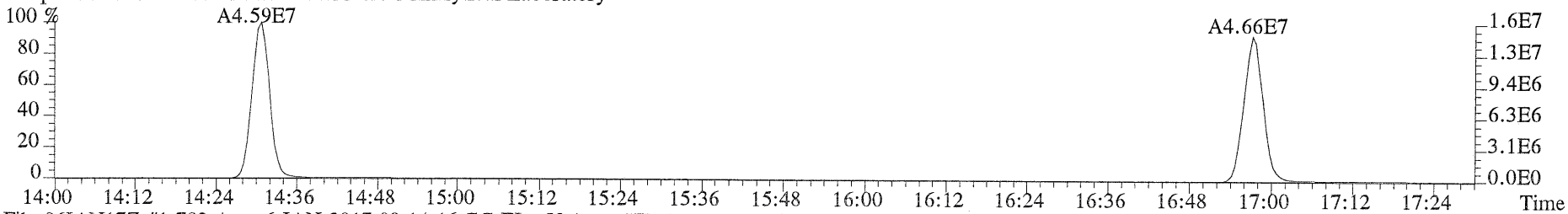
File:06JAN17Z #1-783 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



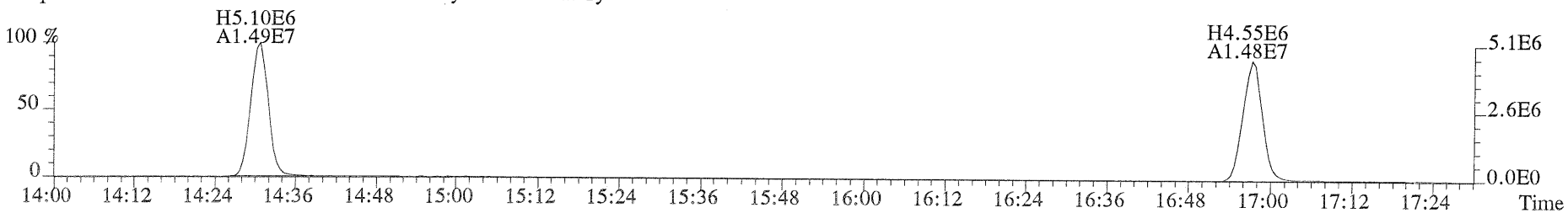
File:06JAN17Z #1-783 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



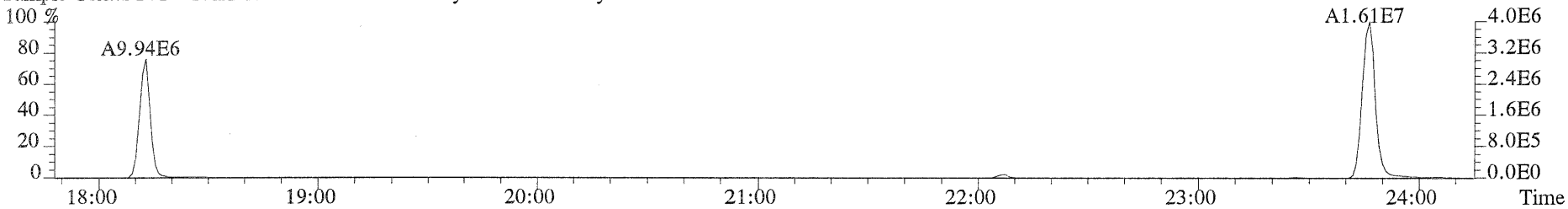
File:06JAN17Z #1-783 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



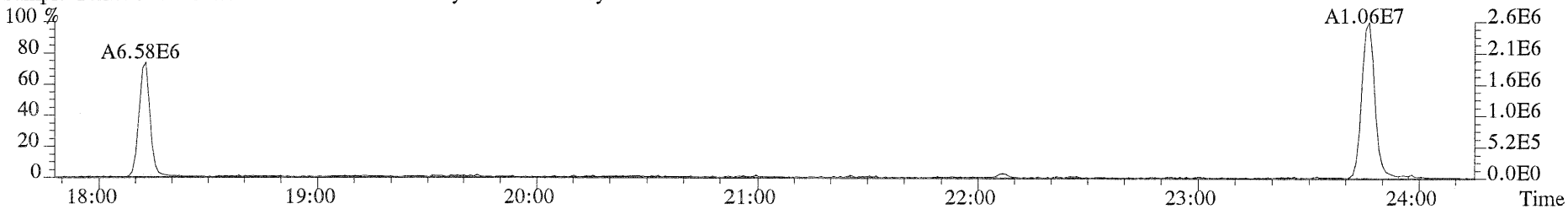
File:06JAN17Z #1-783 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



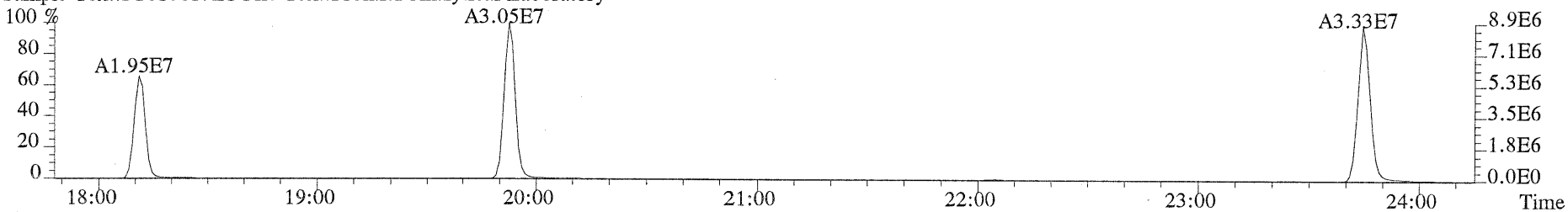
File:06JAN17Z #1-509 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



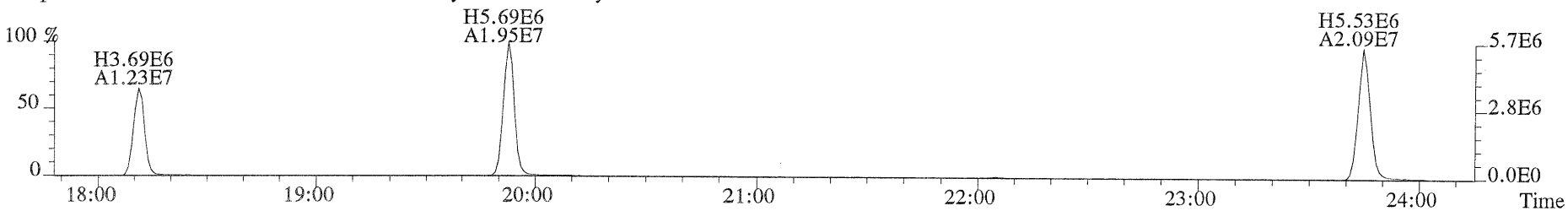
File:06JAN17Z #1-509 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



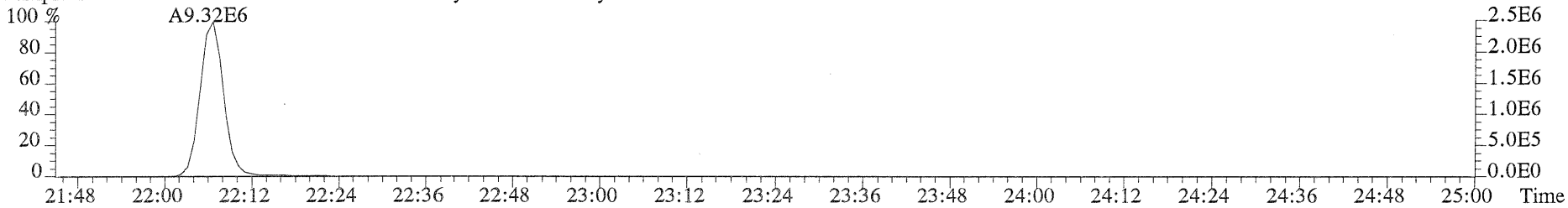
File:06JAN17Z #1-509 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



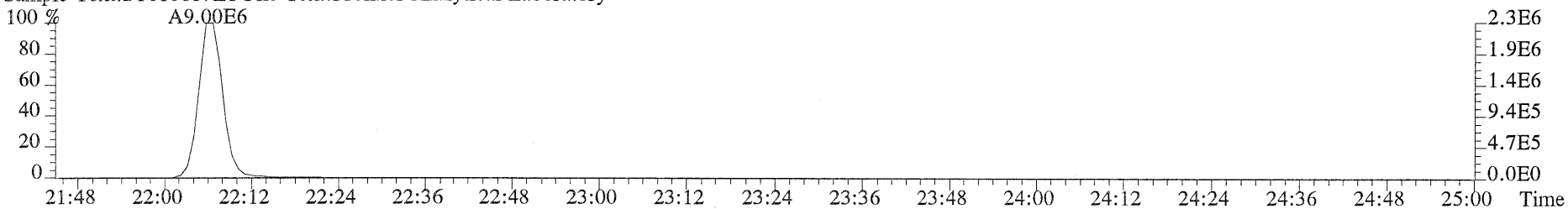
File:06JAN17Z #1-509 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



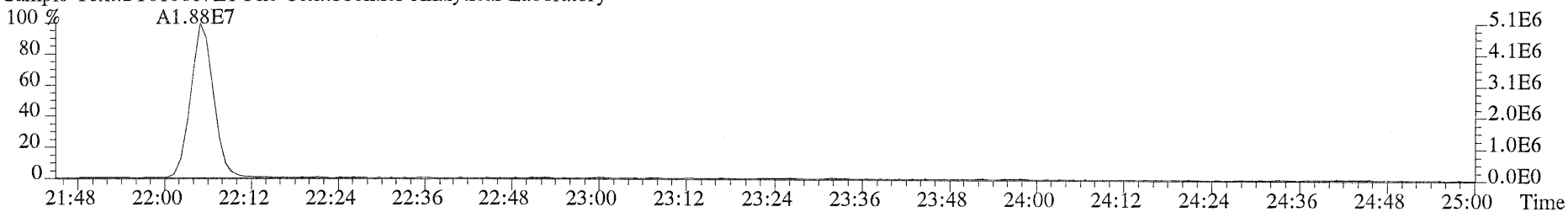
File:06JAN17Z #1-509 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



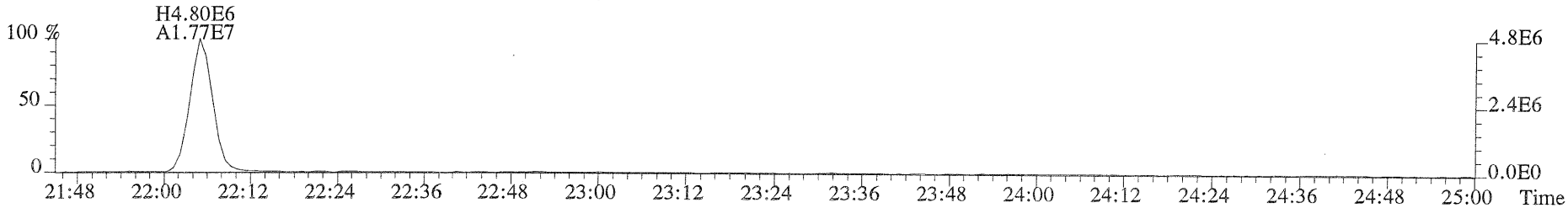
File:06JAN17Z #1-509 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



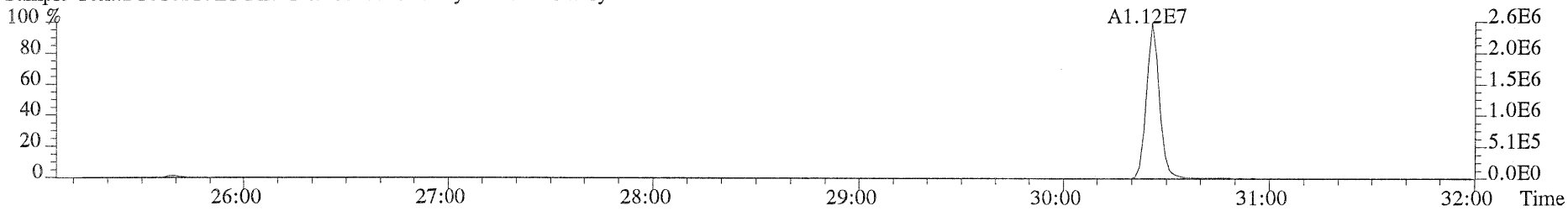
File:06JAN17Z #1-509 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



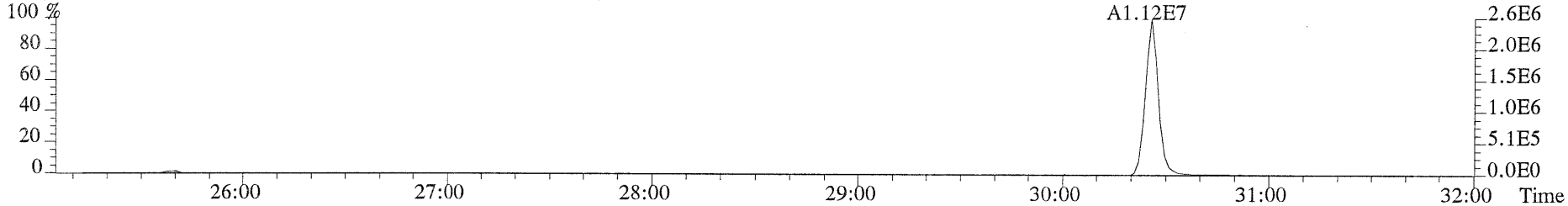
File:06JAN17Z #1-509 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



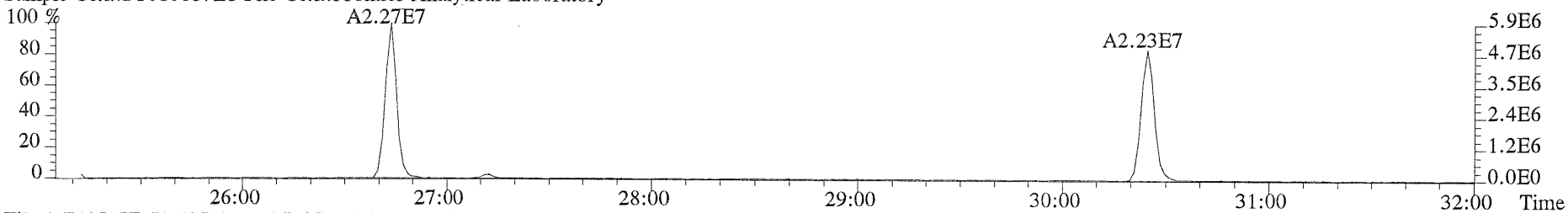
File:06JAN17Z #1-407 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



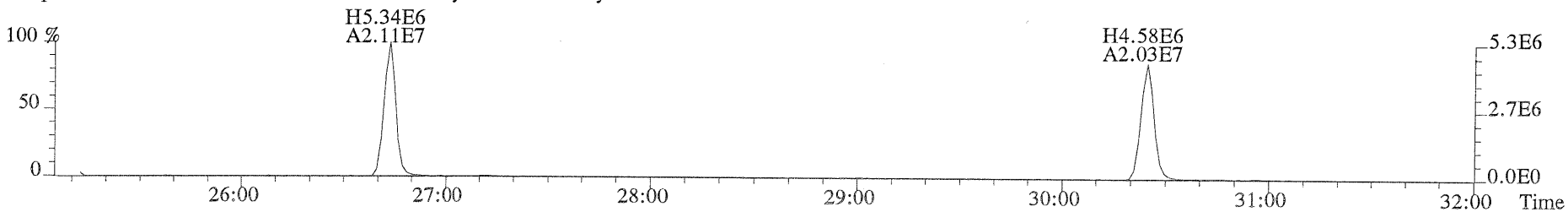
File:06JAN17Z #1-407 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



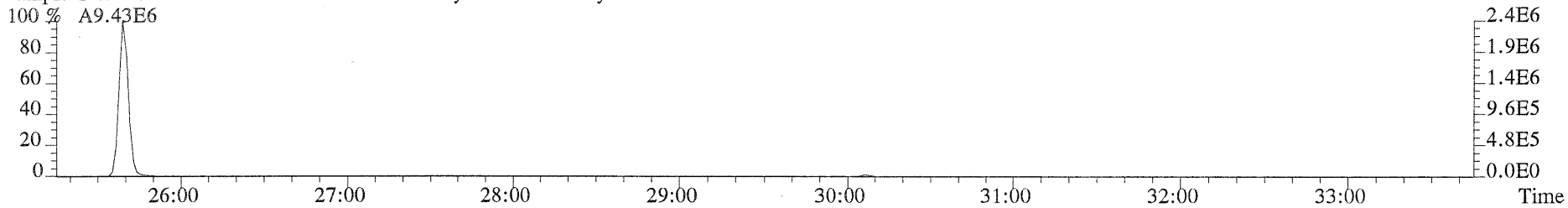
File:06JAN17Z #1-407 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



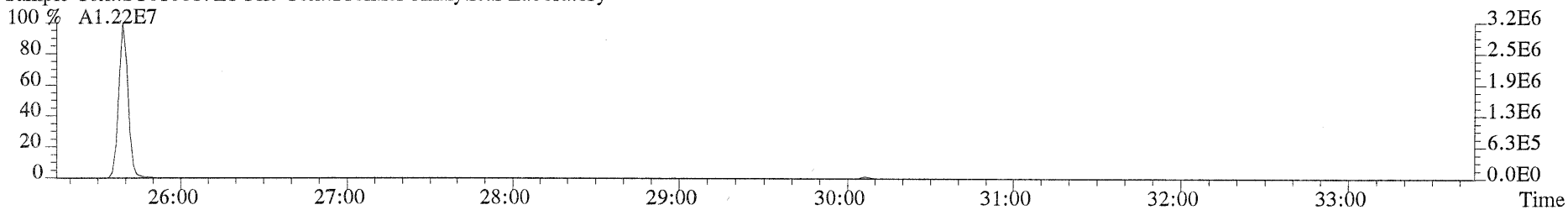
File:06JAN17Z #1-407 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



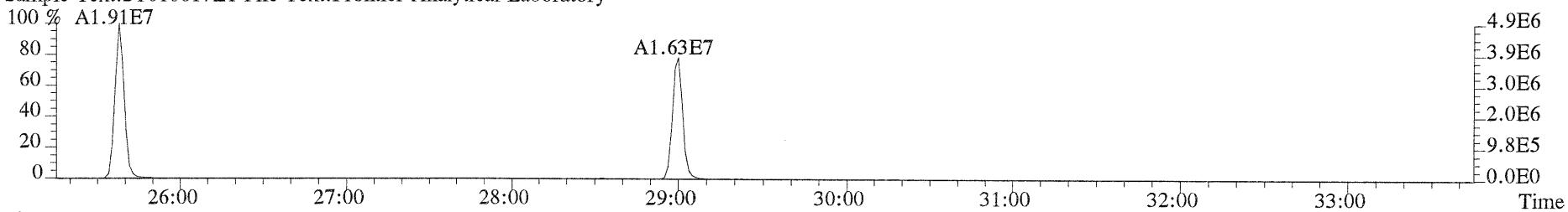
File:06JAN17Z #1-407 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



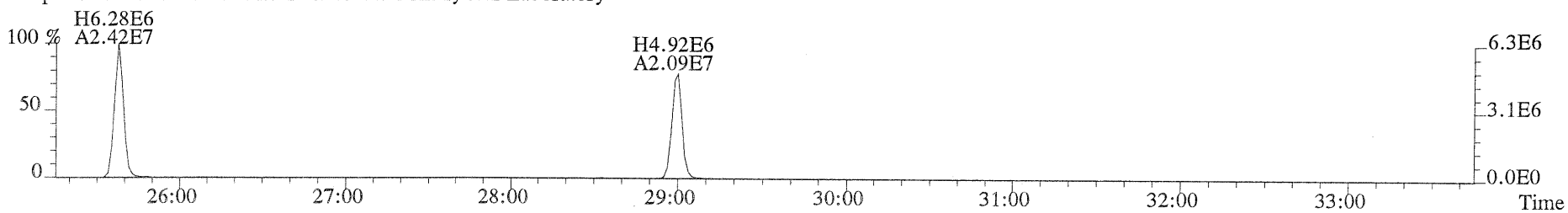
File:06JAN17Z #1-407 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



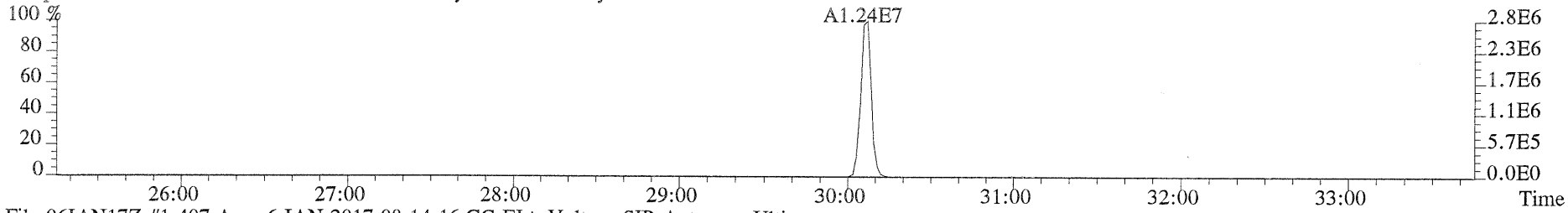
File:06JAN17Z #1-407 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



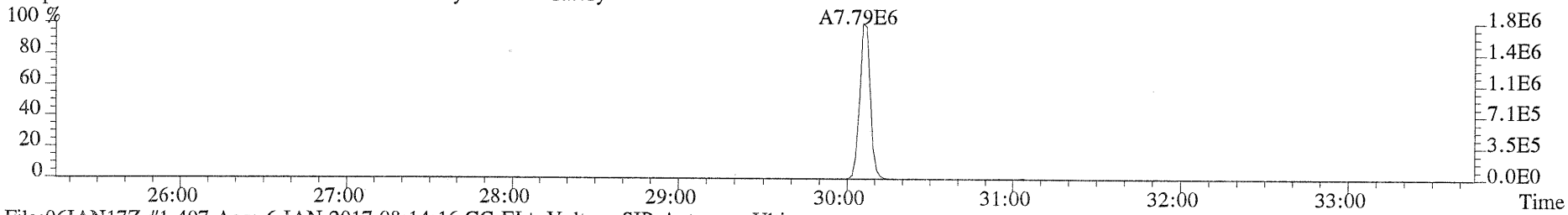
File:06JAN17Z #1-407 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



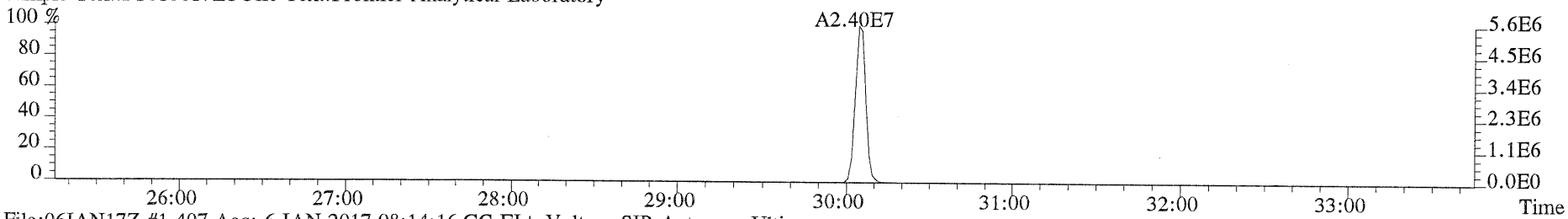
File:06JAN17Z #1-407 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



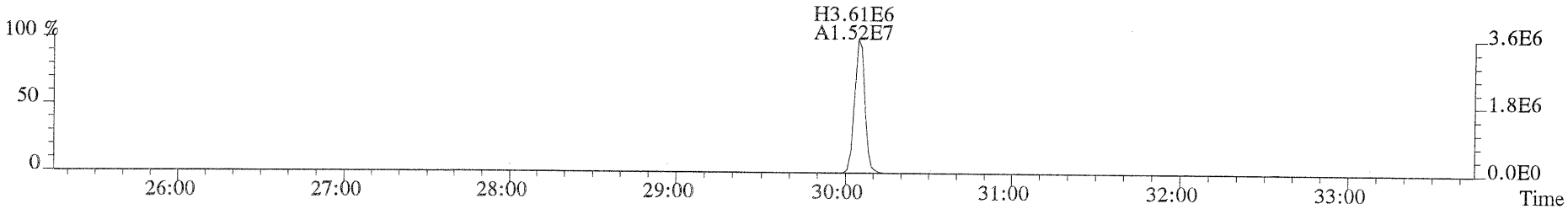
File:06JAN17Z #1-407 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



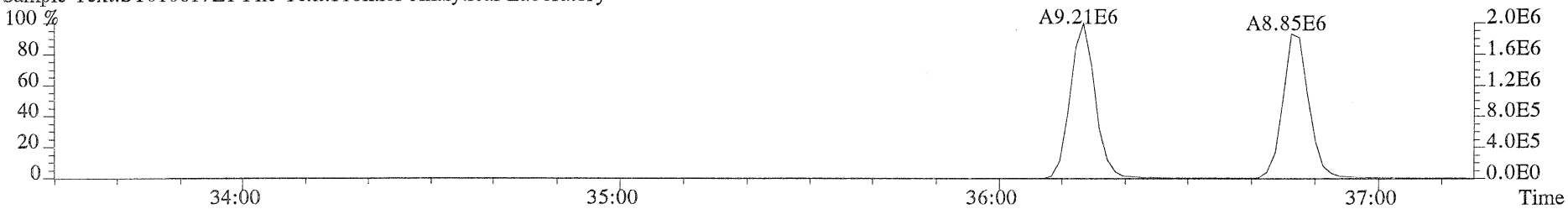
File:06JAN17Z #1-407 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



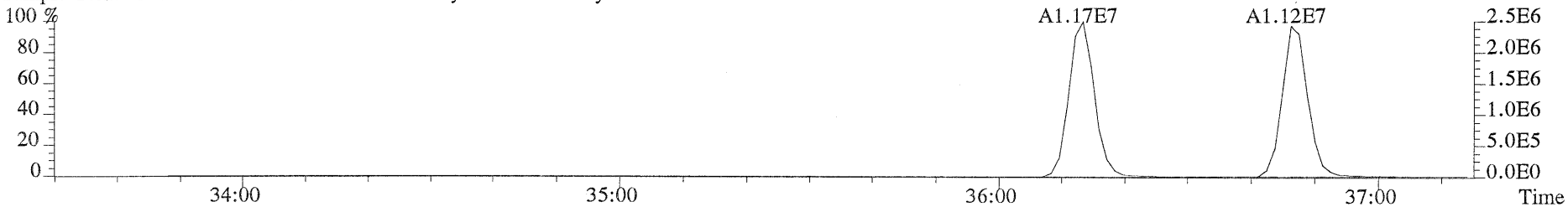
File:06JAN17Z #1-407 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



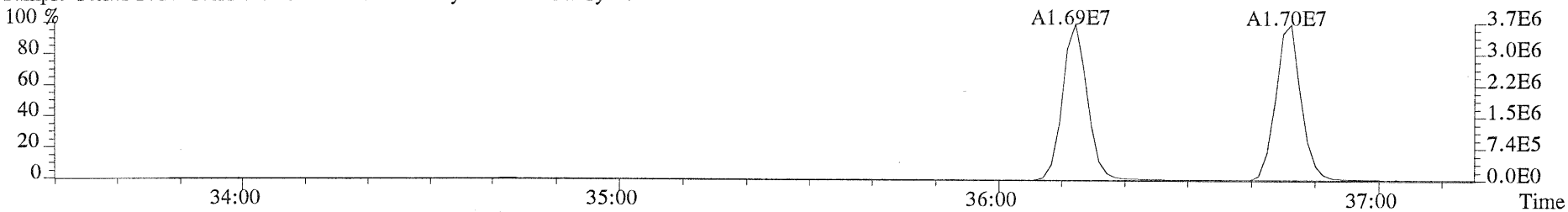
File:06JAN17Z #1-181 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



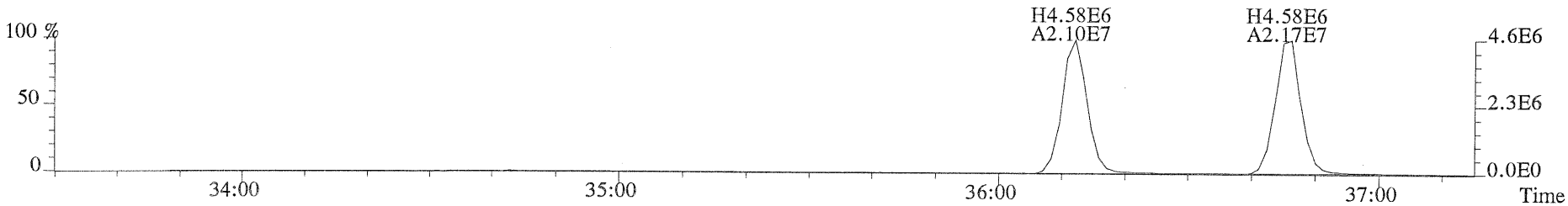
File:06JAN17Z #1-181 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



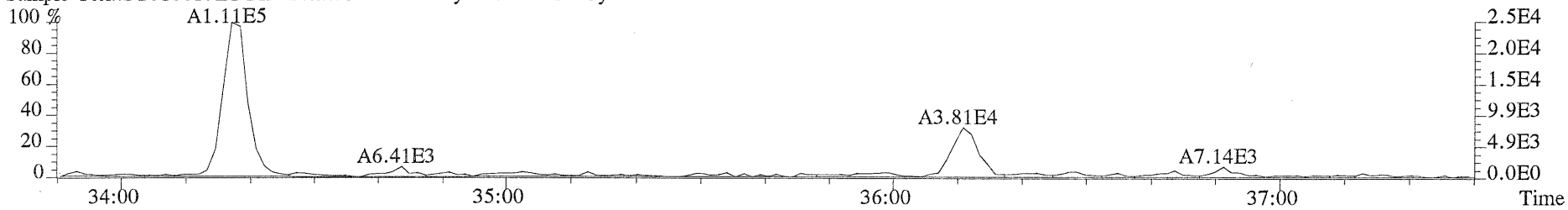
File:06JAN17Z #1-181 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



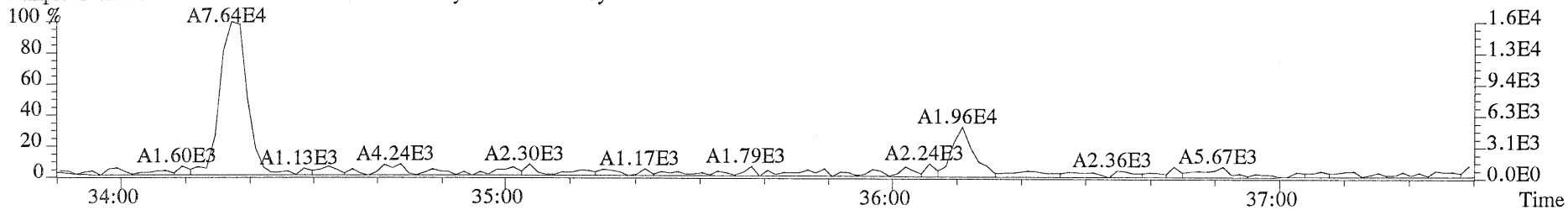
File:06JAN17Z #1-181 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



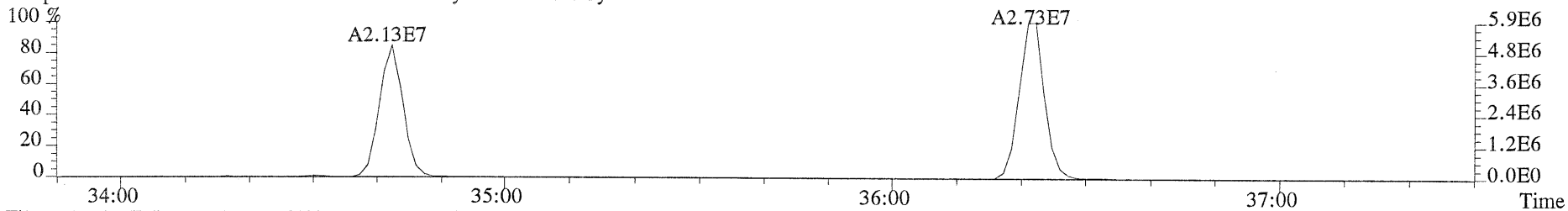
File:06JAN17Z #1-181 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-181 Acq: 6-JAN-2017 08:14:16 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:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-181 Acq: 6-JAN-2017 08:14:16 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:ST010617Z1 File Text:Frontier Analytical Laboratory



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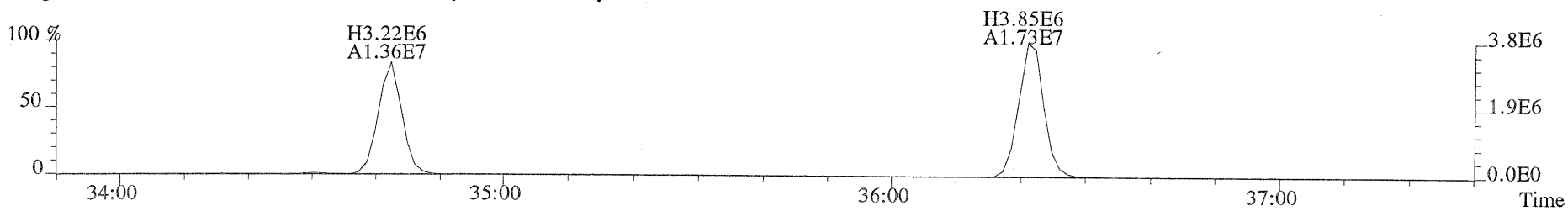
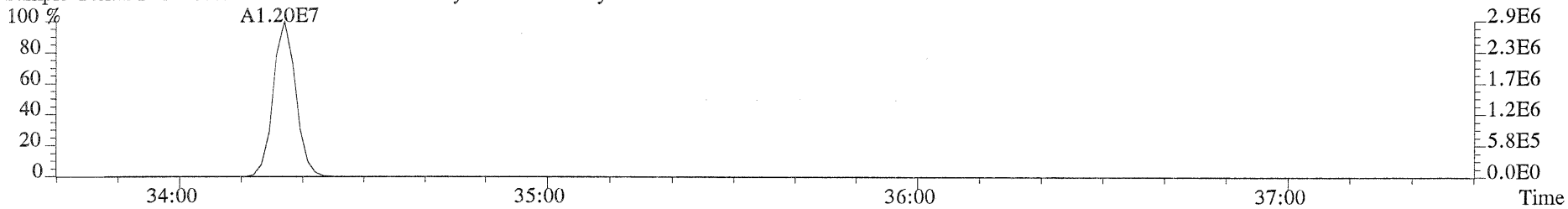
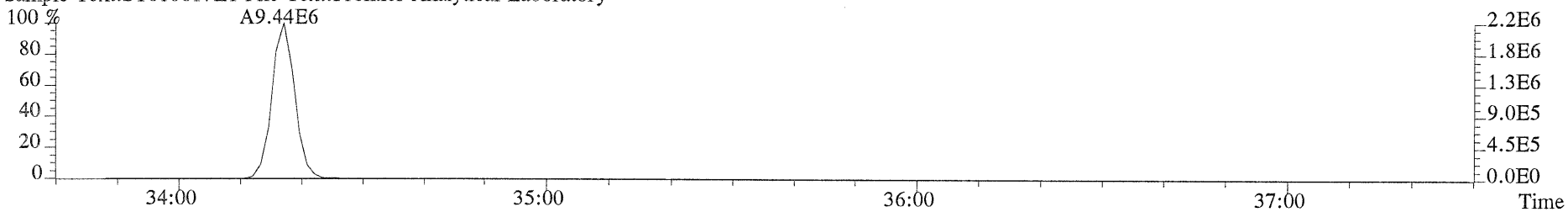
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



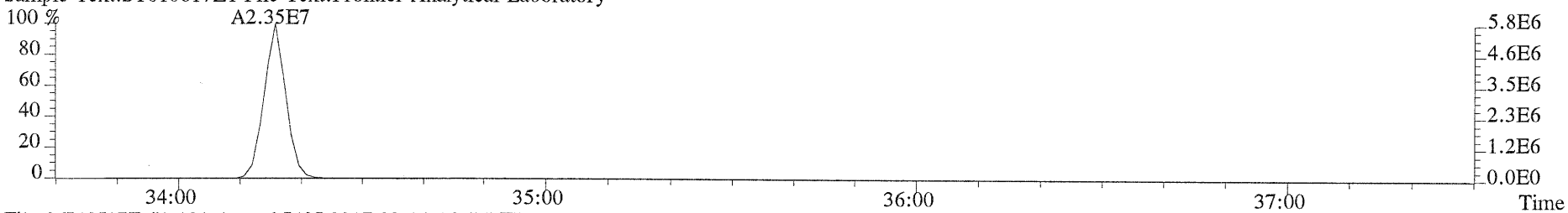
File:06JAN17Z #1-181 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-181 Acq: 6-JAN-2017 08:14:16 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:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-181 Acq: 6-JAN-2017 08:14:16 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:ST010617Z1 File Text:Frontier Analytical Laboratory



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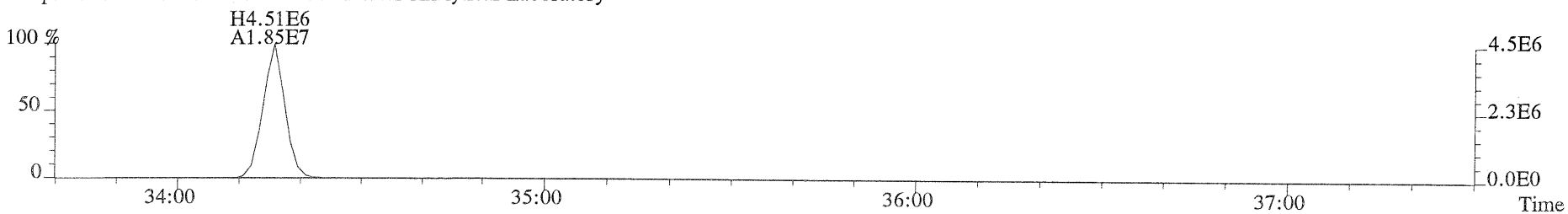
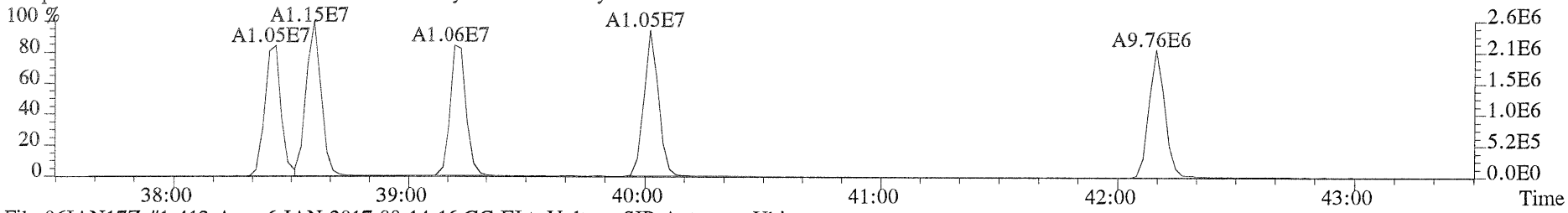
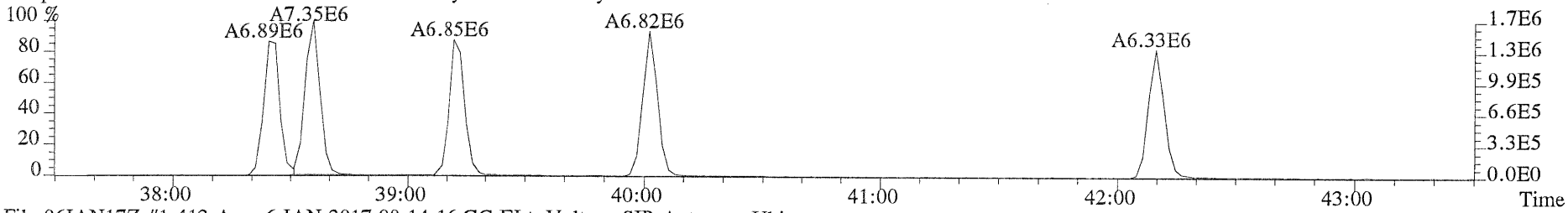
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 08:14:16 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:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 08:14:16 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:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
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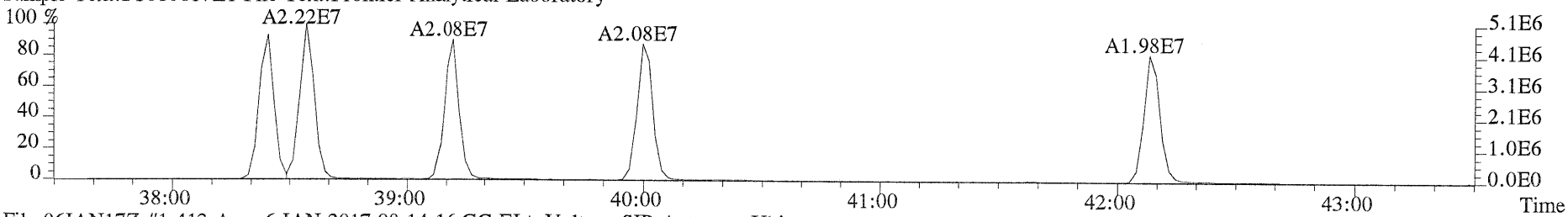
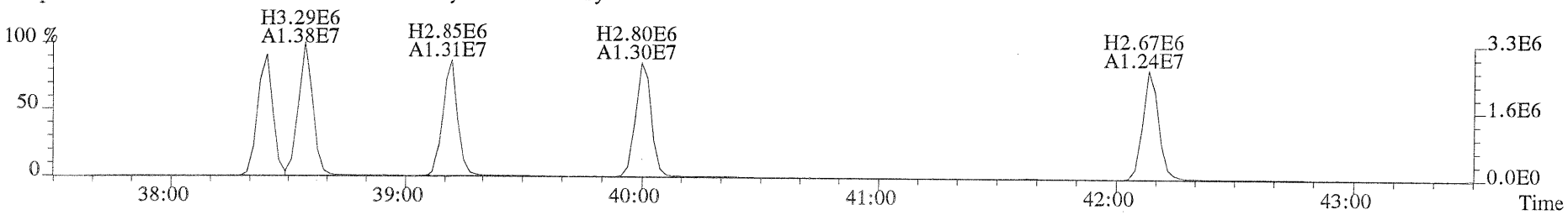
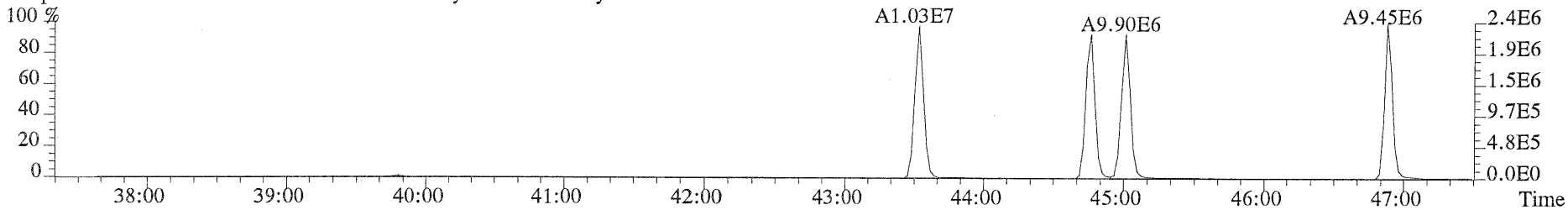
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



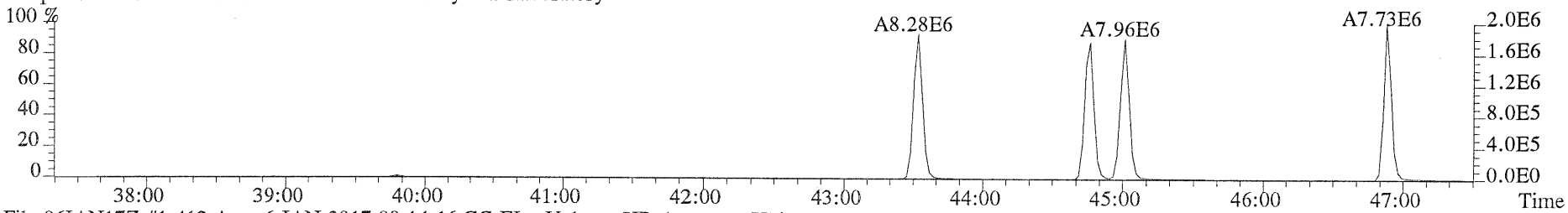
File:06JAN17Z #1-413 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



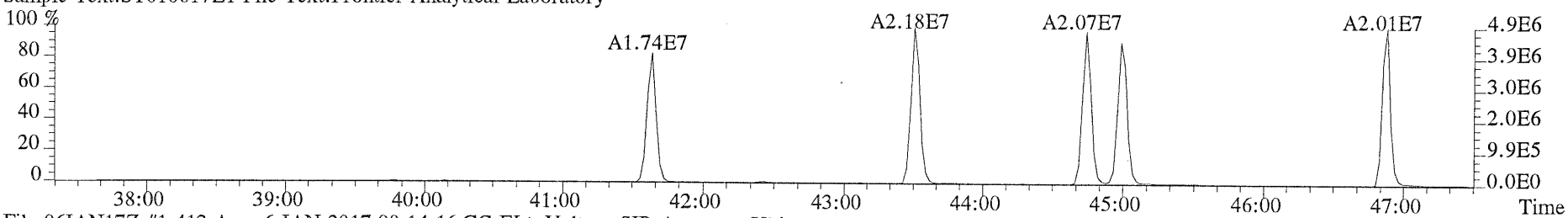
File:06JAN17Z #1-413 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



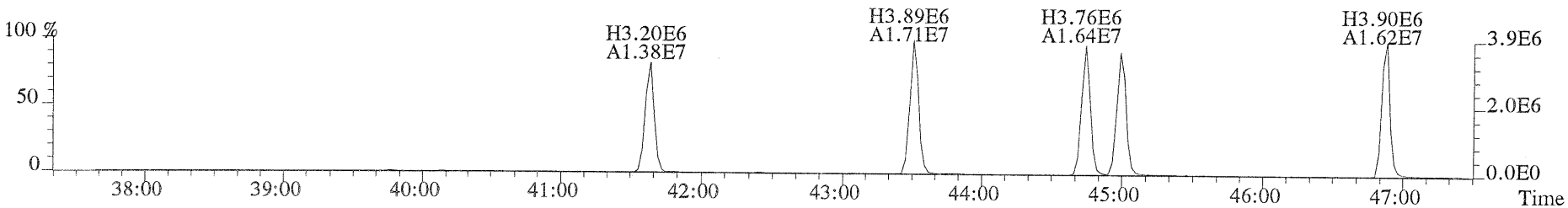
File:06JAN17Z #1-413 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



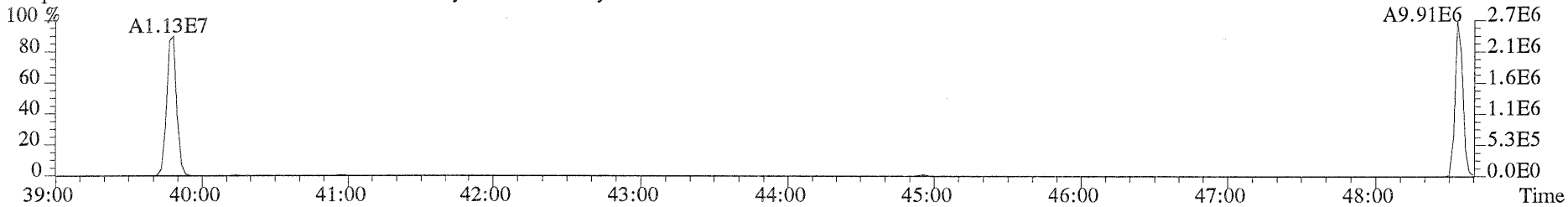
File:06JAN17Z #1-413 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 08:14:16 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:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 08:14:16 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:ST010617Z1 File Text:Frontier Analytical Laboratory



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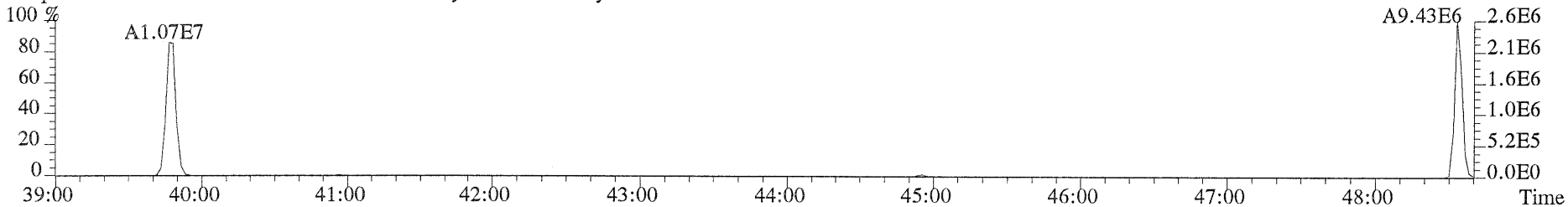
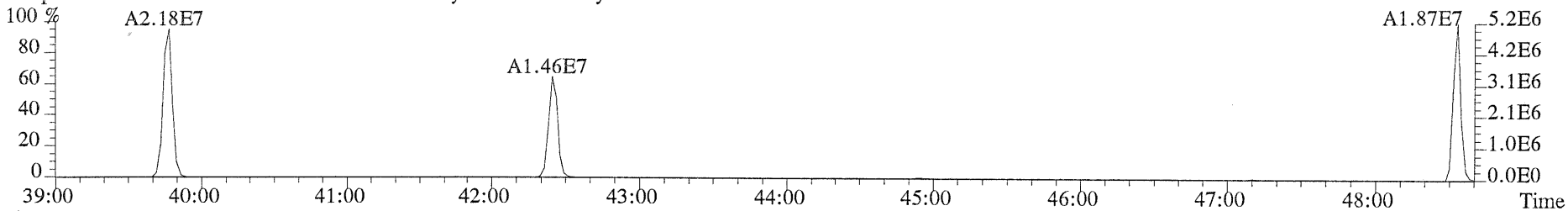
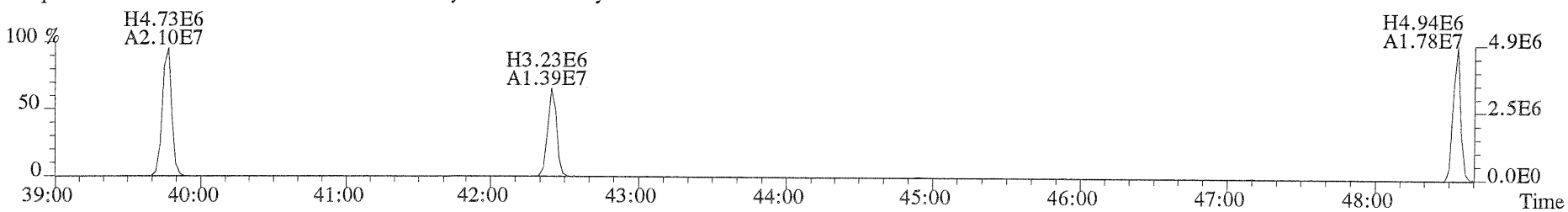
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



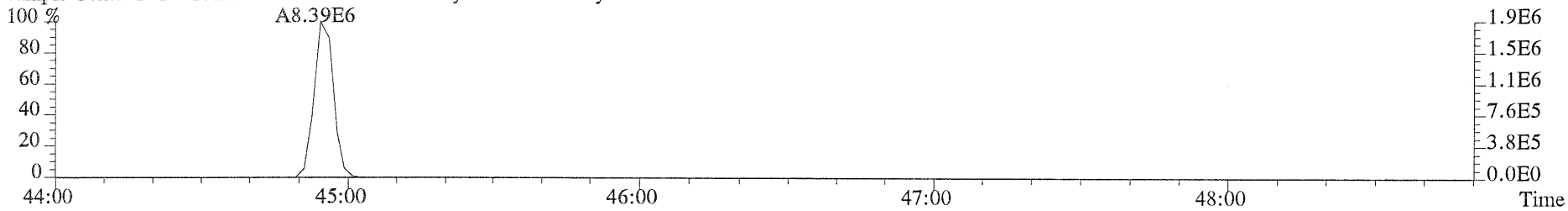
File:06JAN17Z #1-413 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



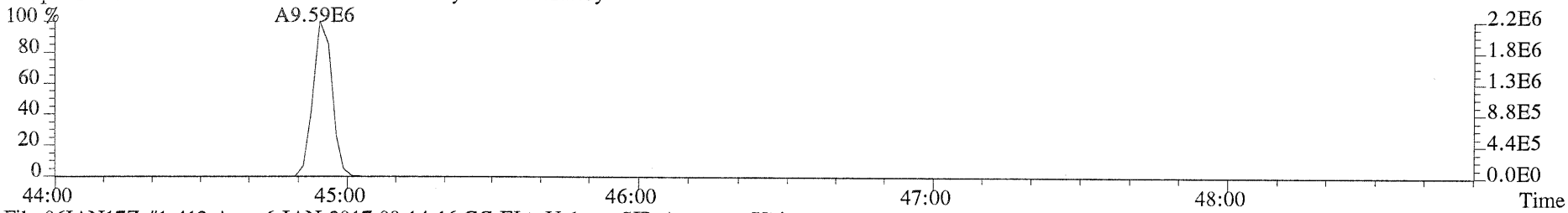
File:06JAN17Z #1-413 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



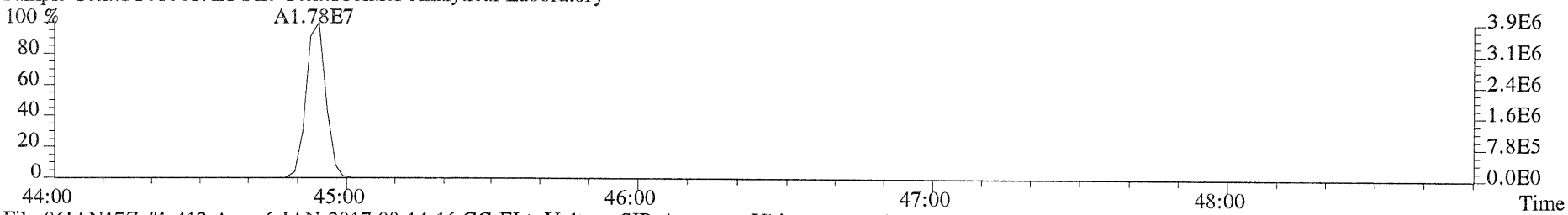
File:06JAN17Z #1-413 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 08:14:16 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:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 08:14:16 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:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-413 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
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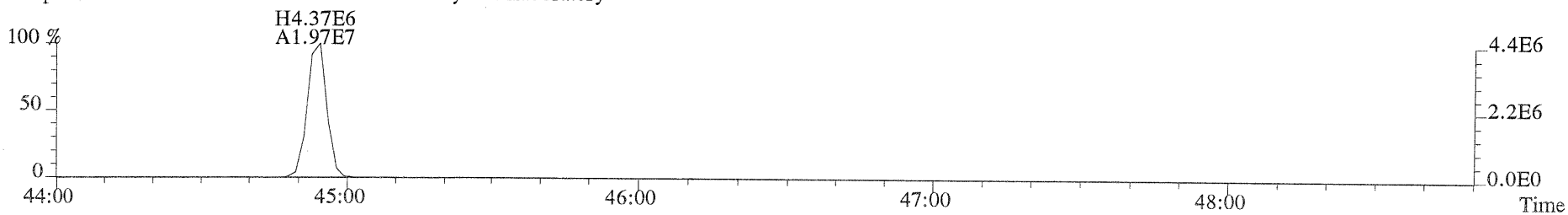
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-306 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
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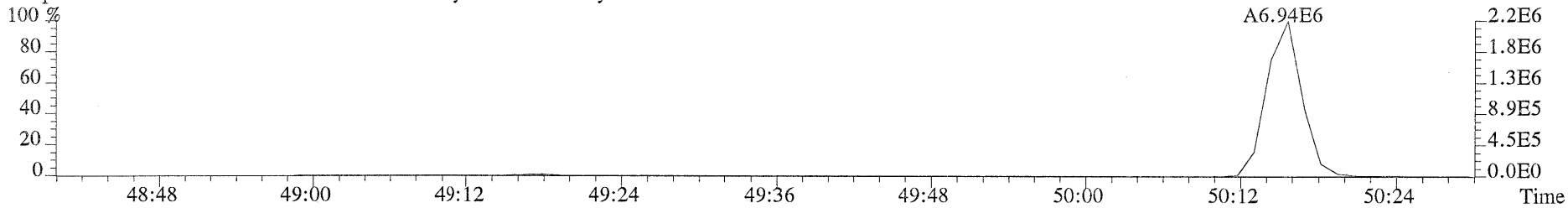
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-306 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
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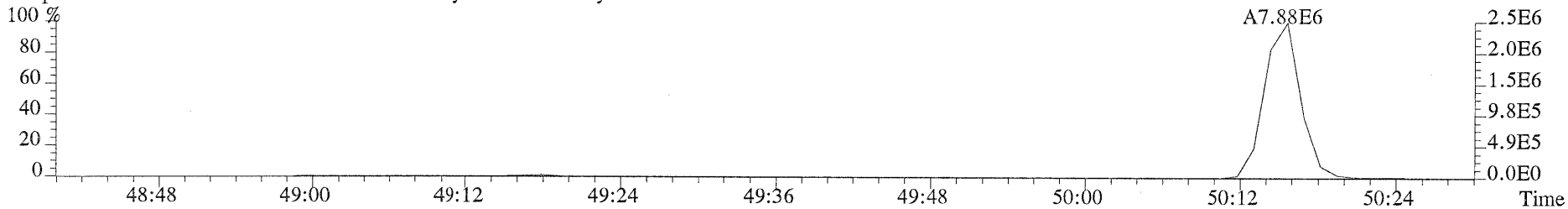
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-306 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
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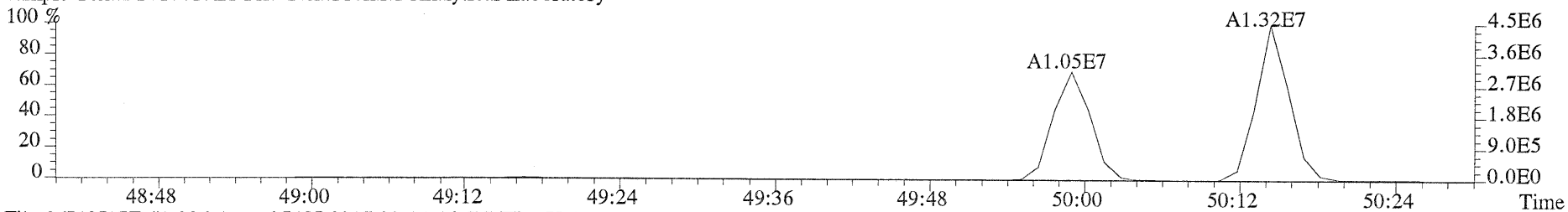
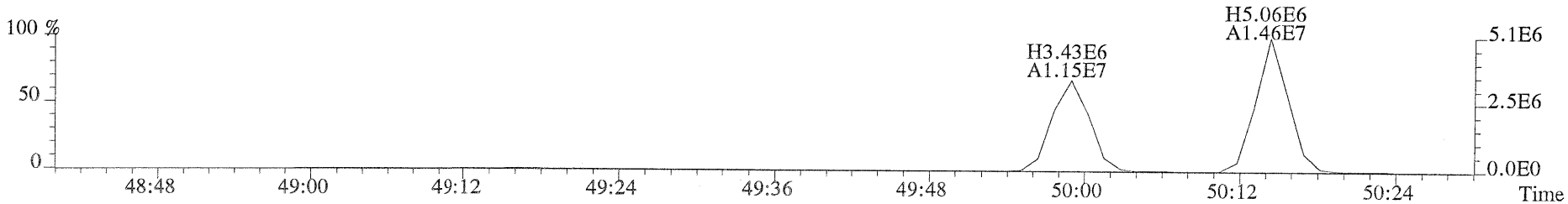
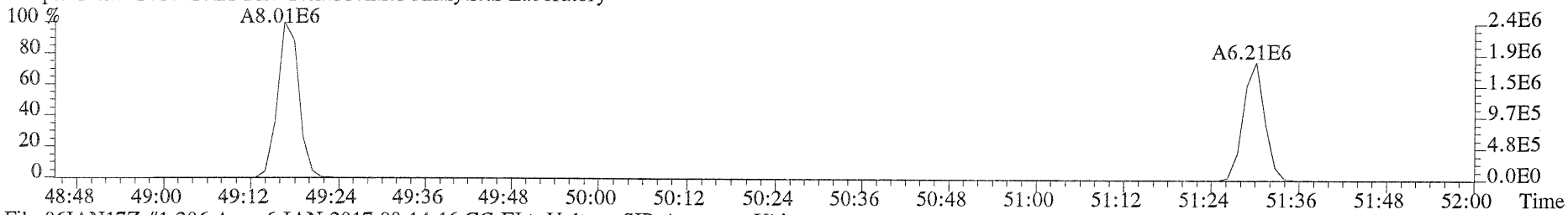
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-306 Acq: 6-JAN-2017 08:14:16 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:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-306 Acq: 6-JAN-2017 08:14:16 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:ST010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-306 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
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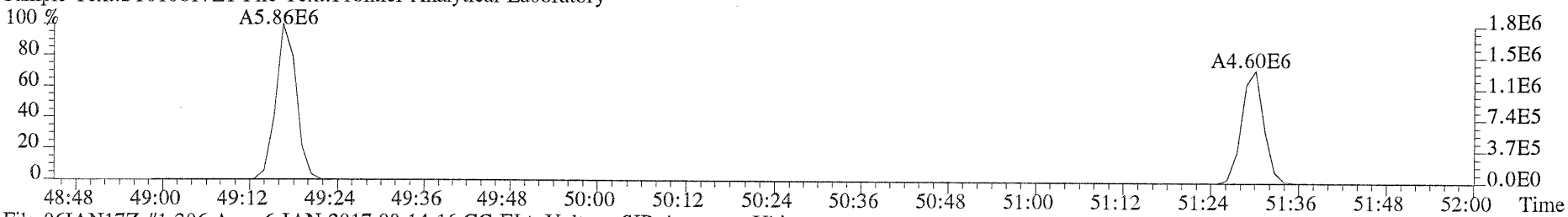
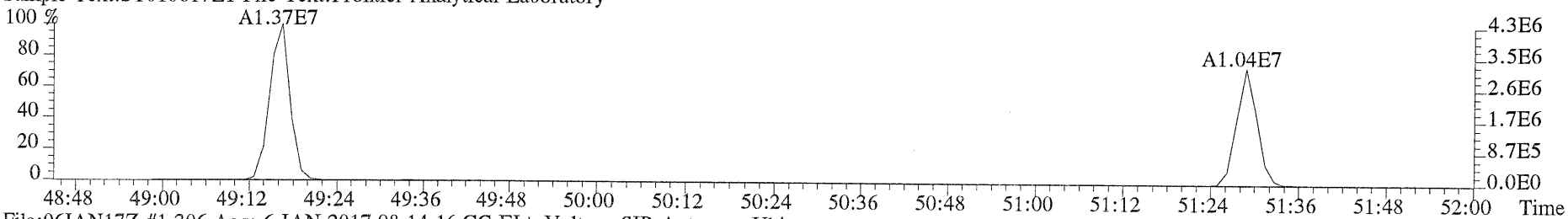
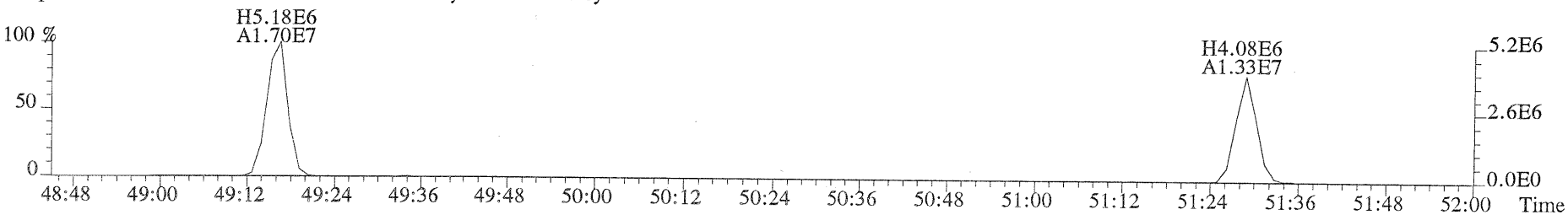
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



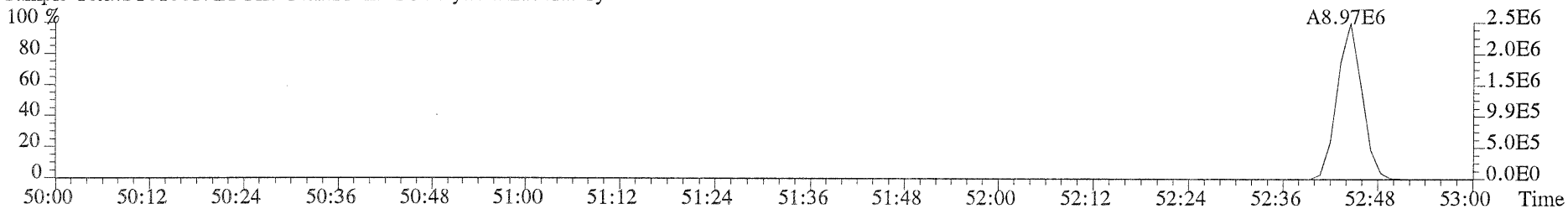
File:06JAN17Z #1-306 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



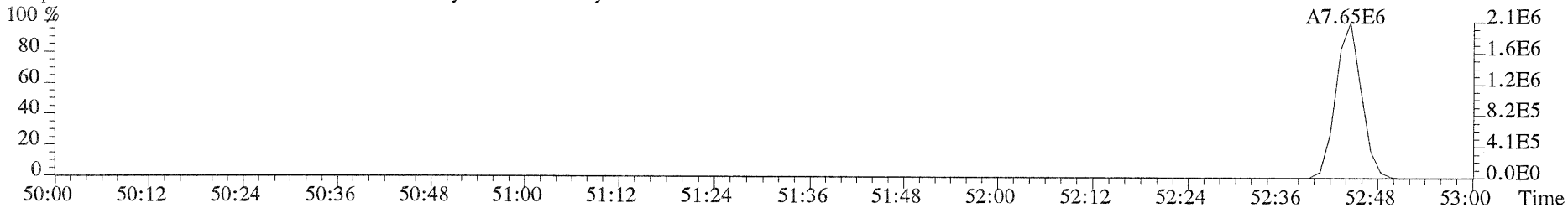
File:06JAN17Z #1-306 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



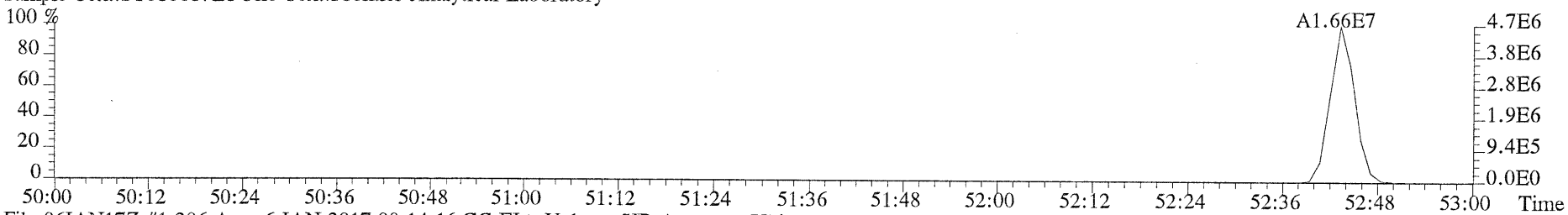
File:06JAN17Z #1-306 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



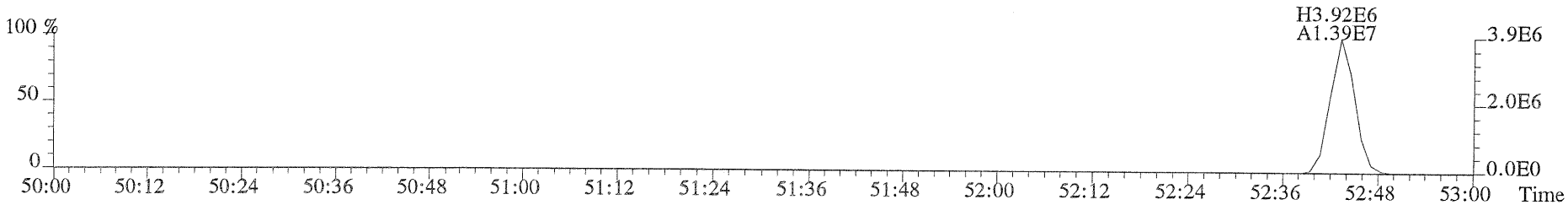
File:06JAN17Z #1-306 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory



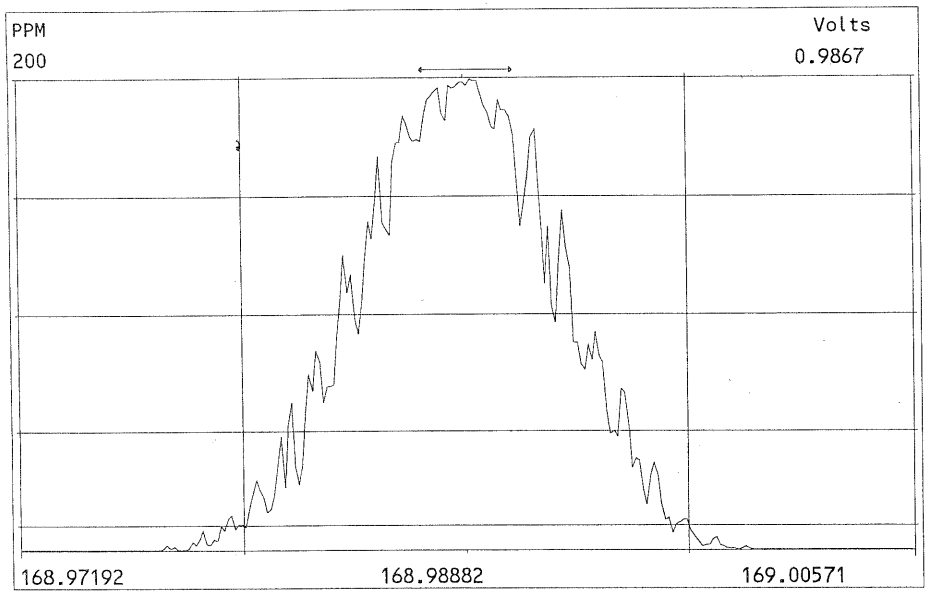
File:06JAN17Z #1-306 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory

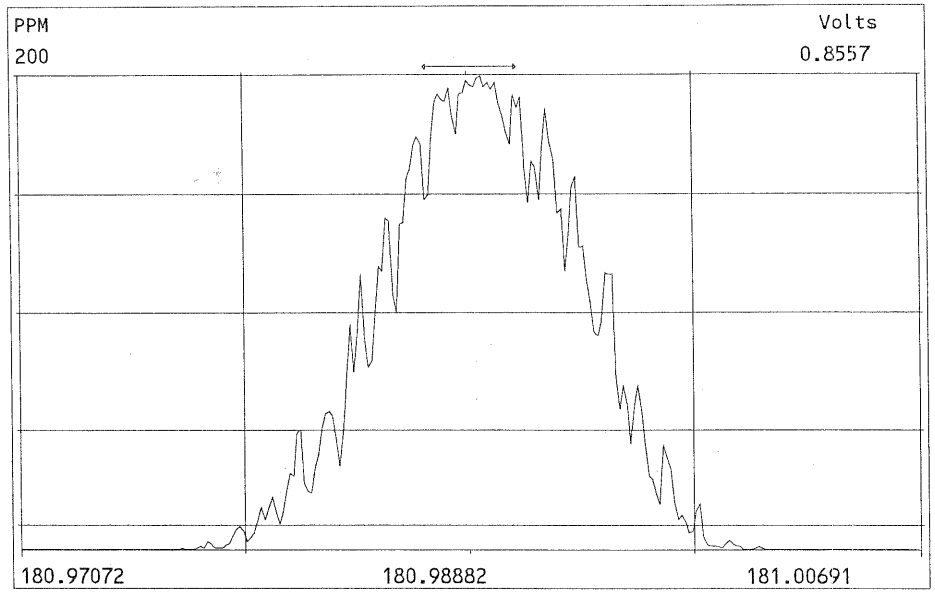


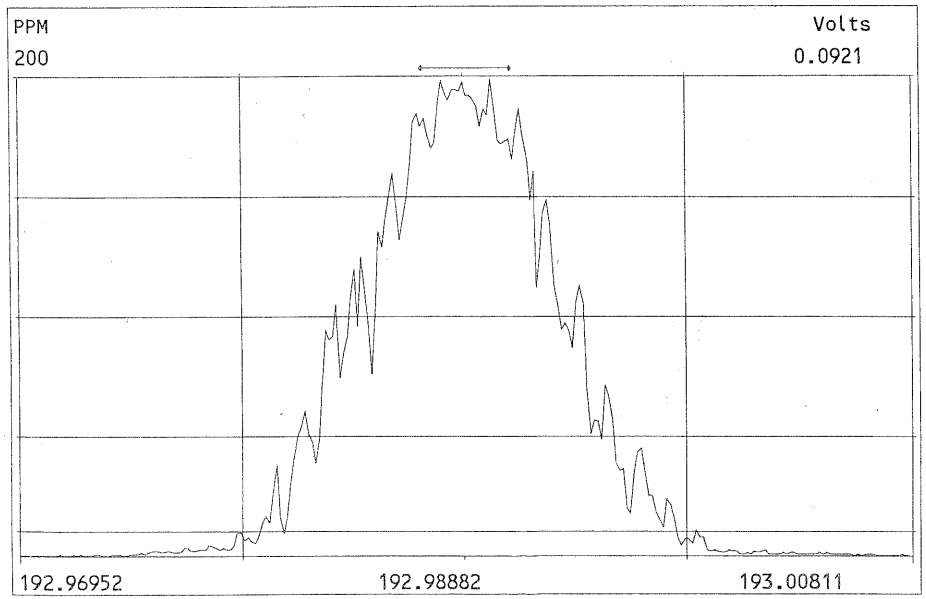
File:06JAN17Z #1-306 Acq: 6-JAN-2017 08:14:16 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z1 File Text:Frontier Analytical Laboratory

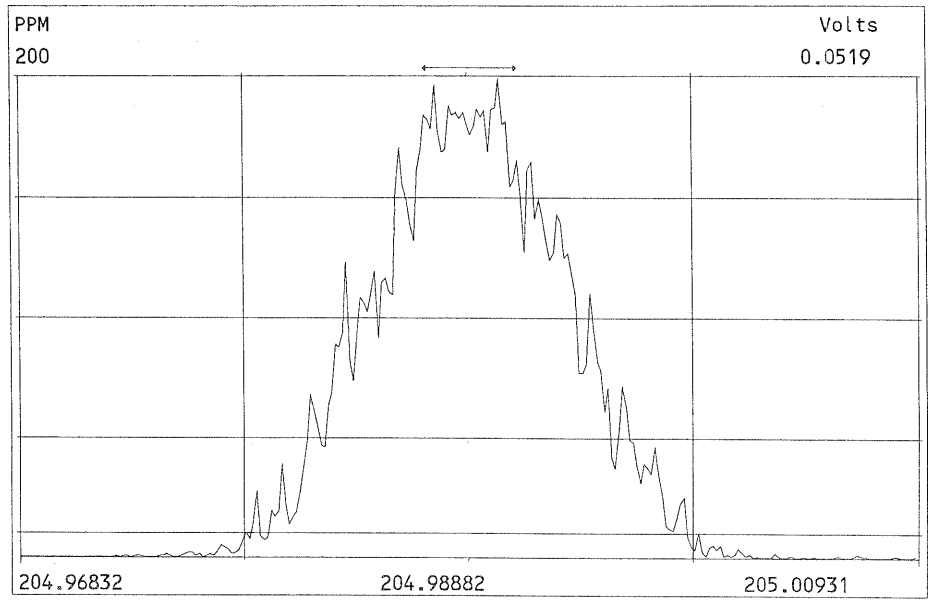


Peak Locate Examination: 6-JAN-2017:21:52 File:06JAN17Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK 52

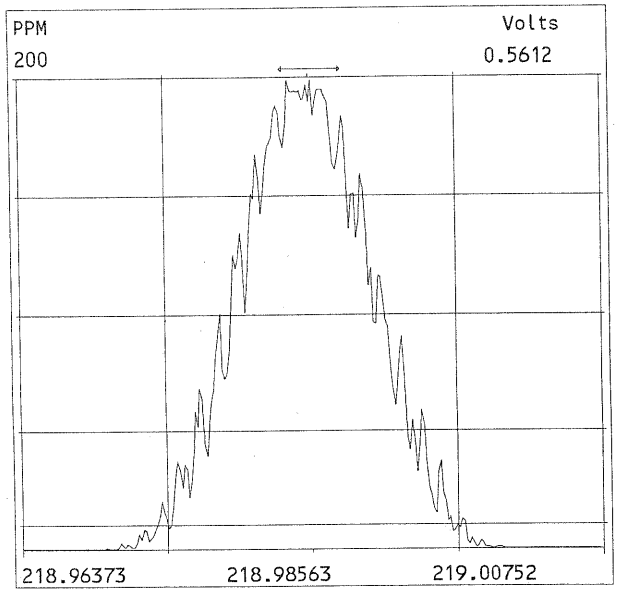


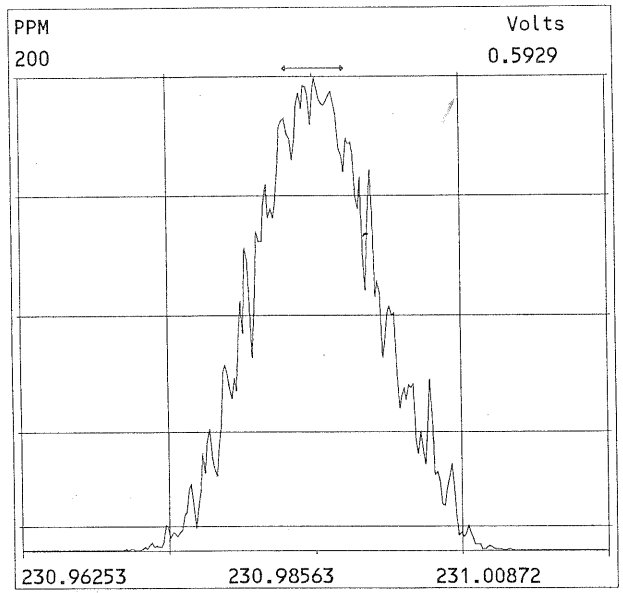


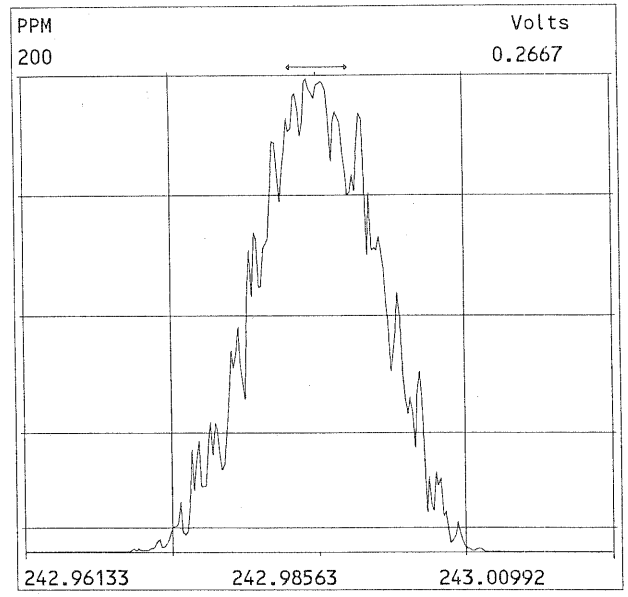


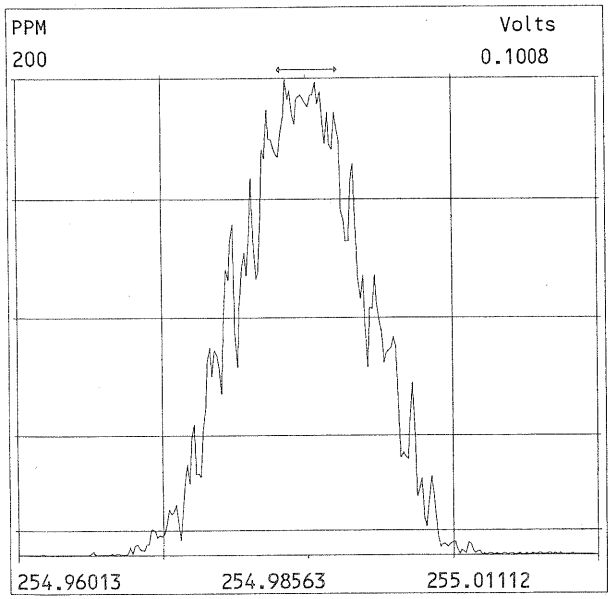


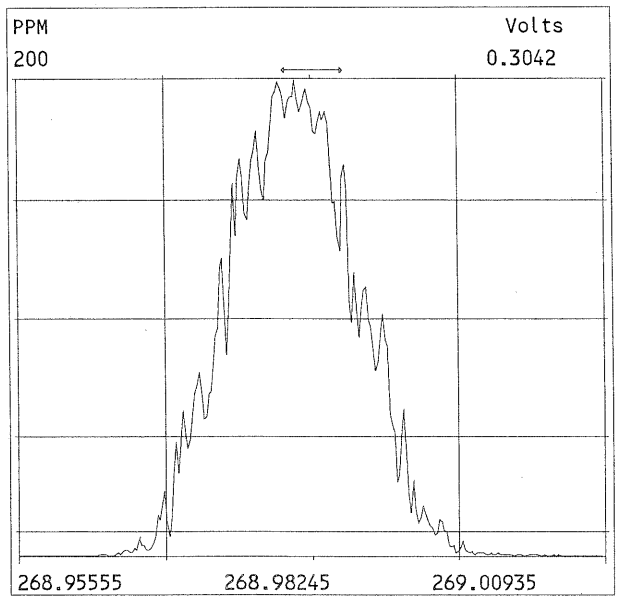
Peak Locate Examination: 6-JAN-2017:21:52 File:06JAN17Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK 52

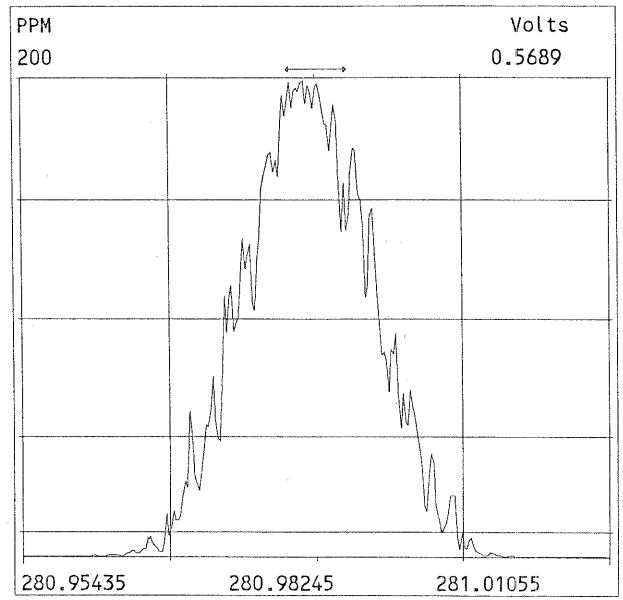




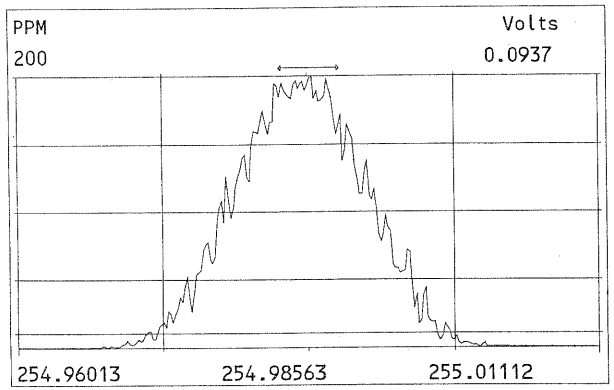


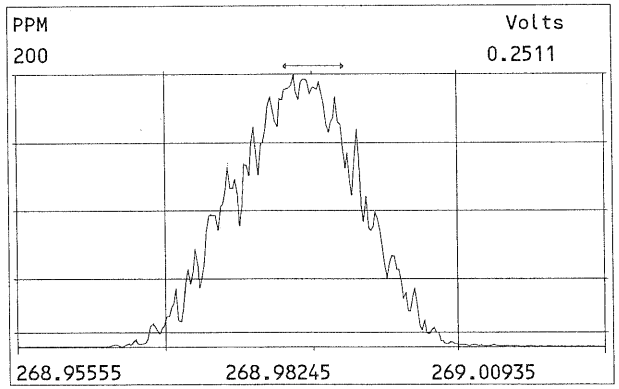


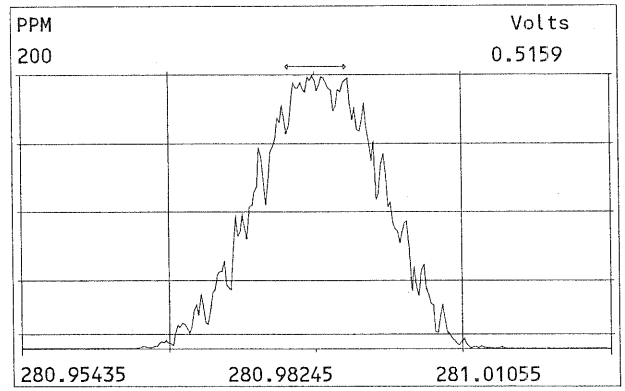


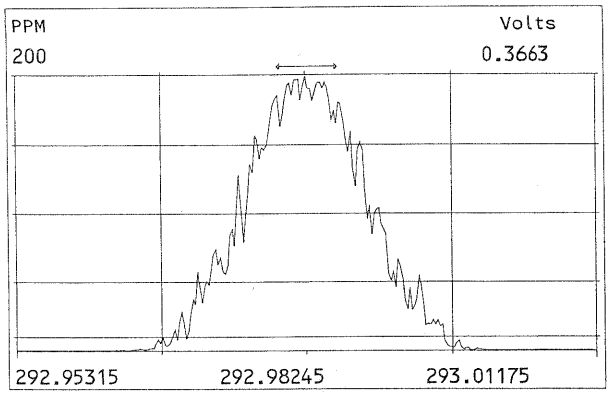


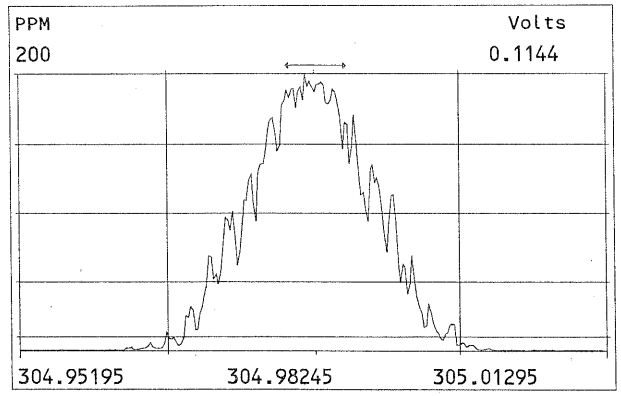
Peak Locate Examination: 6-JAN-2017:21:53 File:06JAN17Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK 5)

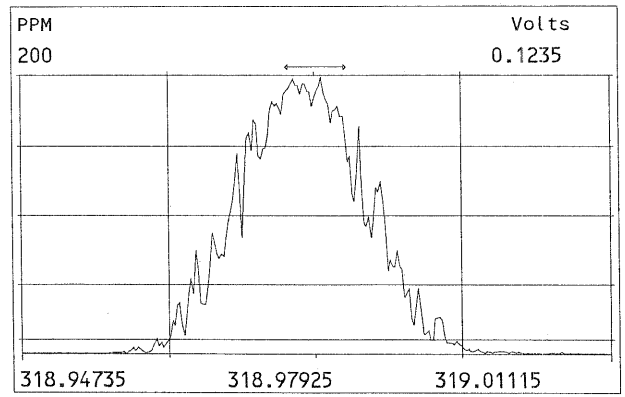


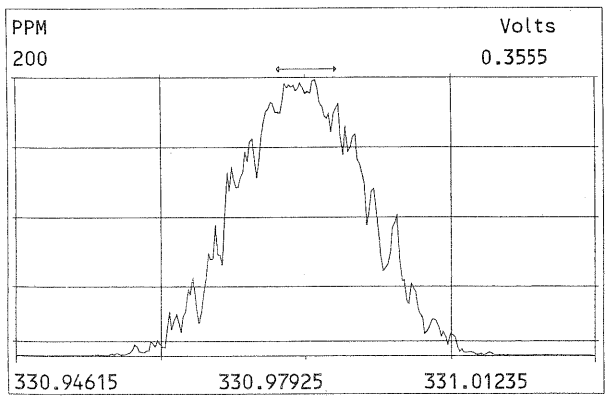


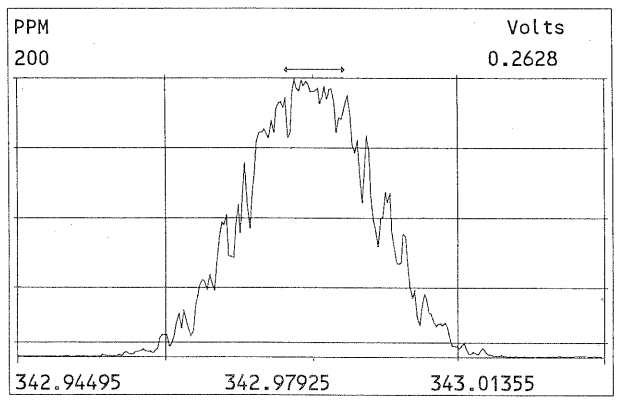




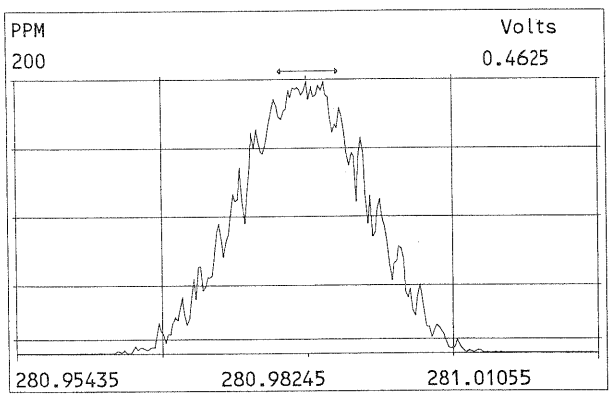


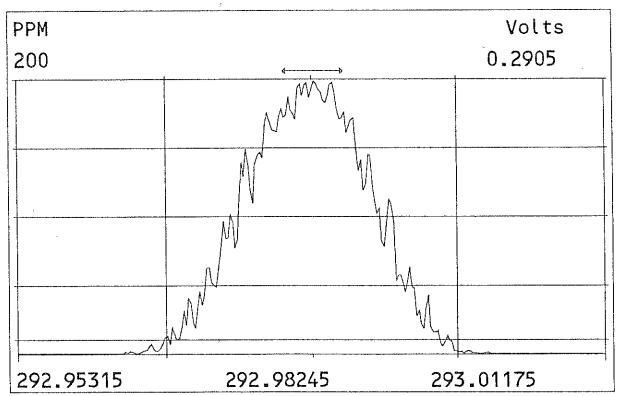


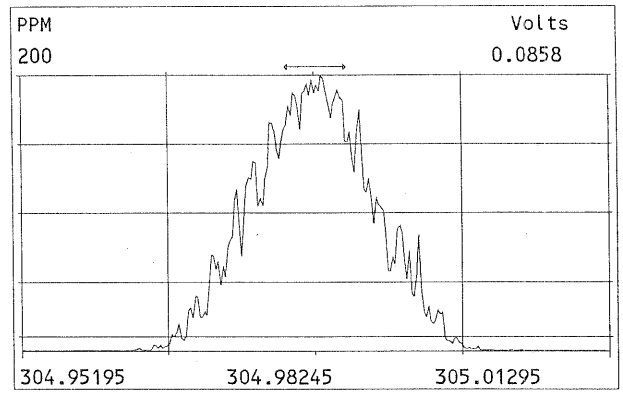


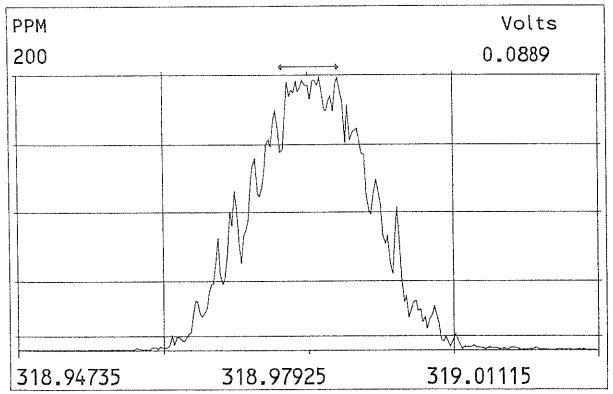


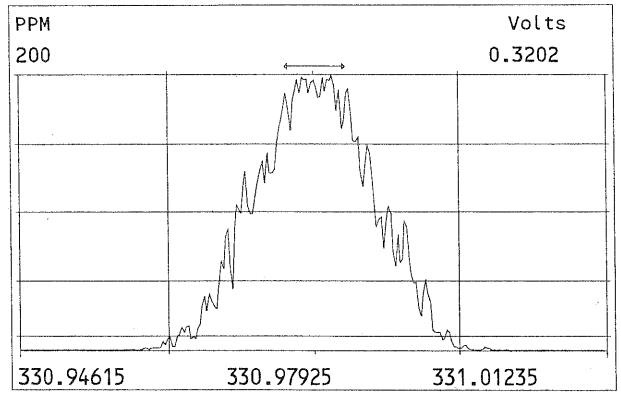
Peak Locate Examination: 6-JAN-2017:21:55 File:06JAN17Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK 52

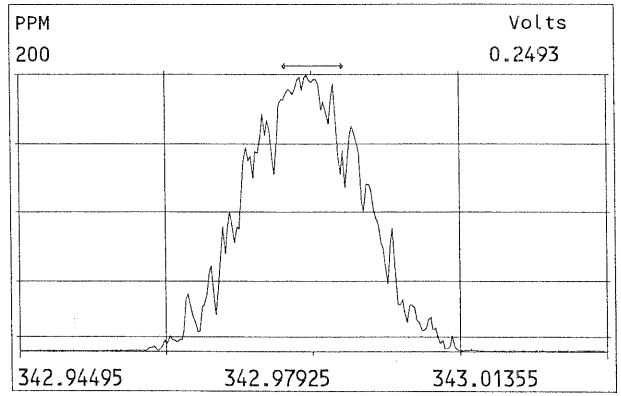


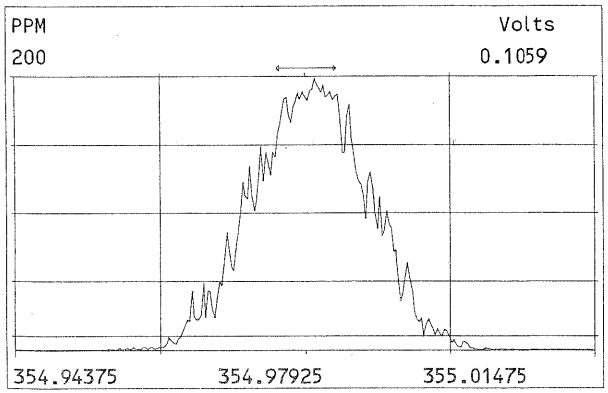


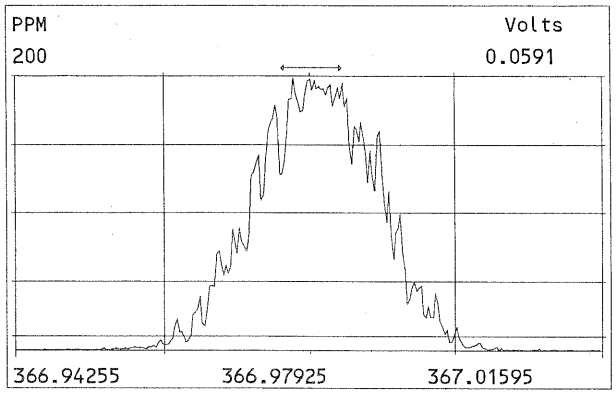


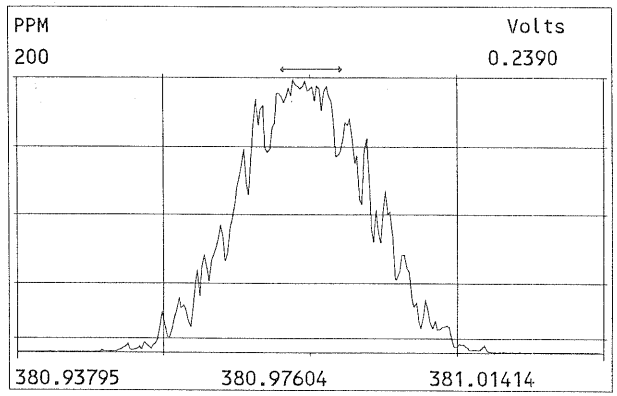




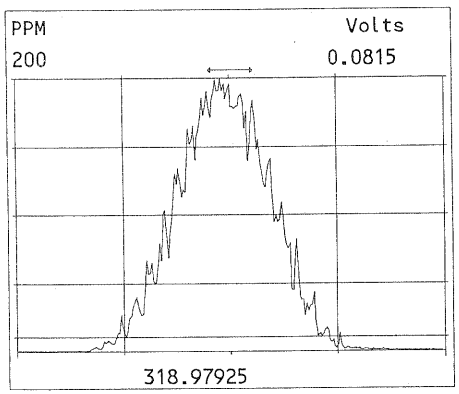


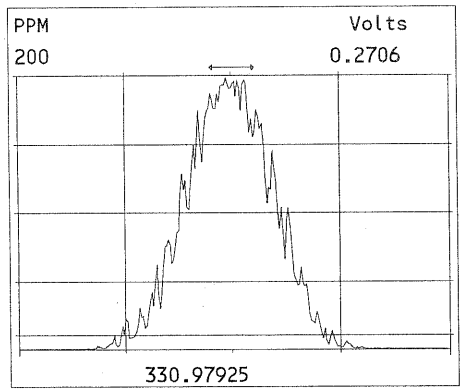


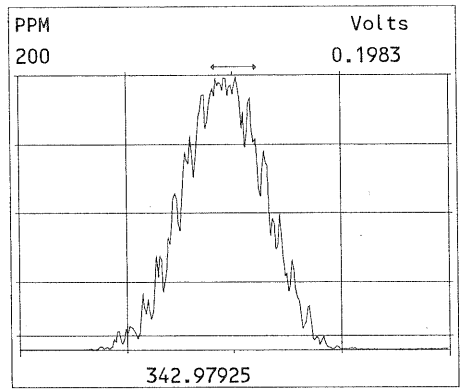


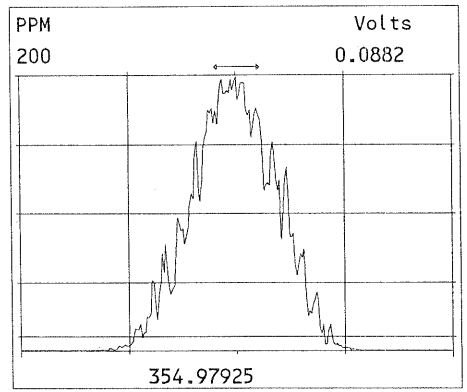


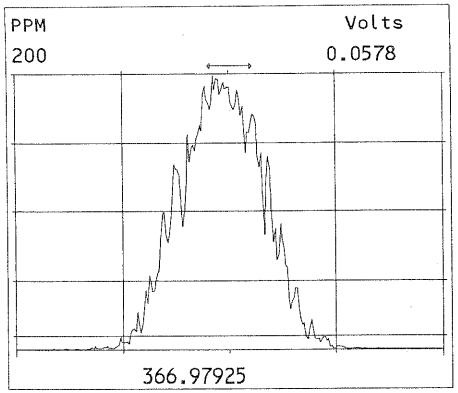
Peak Locate Examination: 6-JAN-2017:21:55 File:06JAN17Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK52

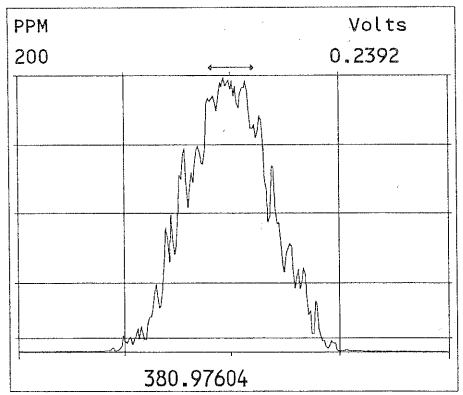


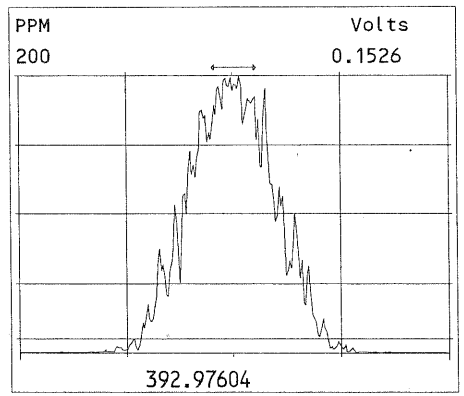


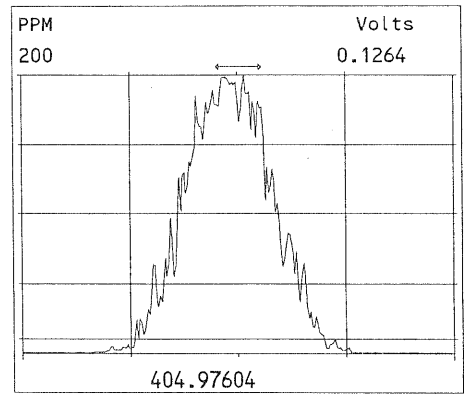


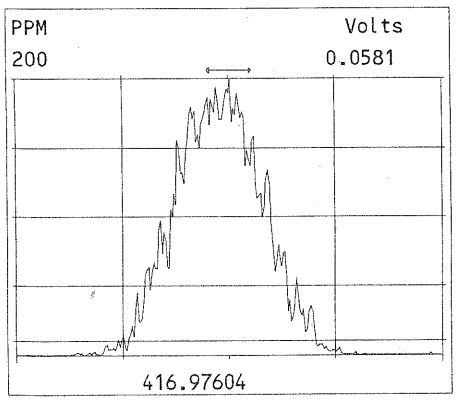


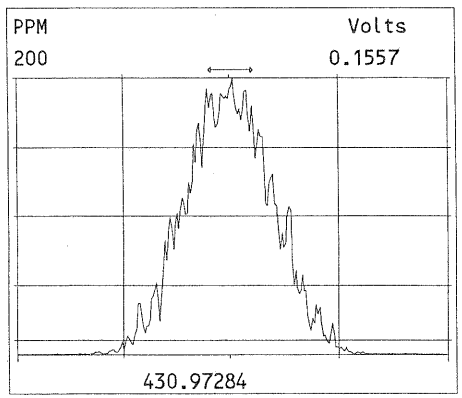


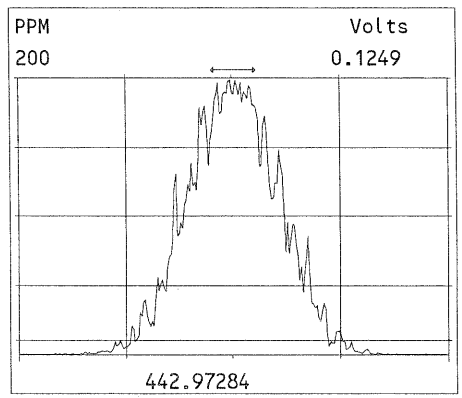




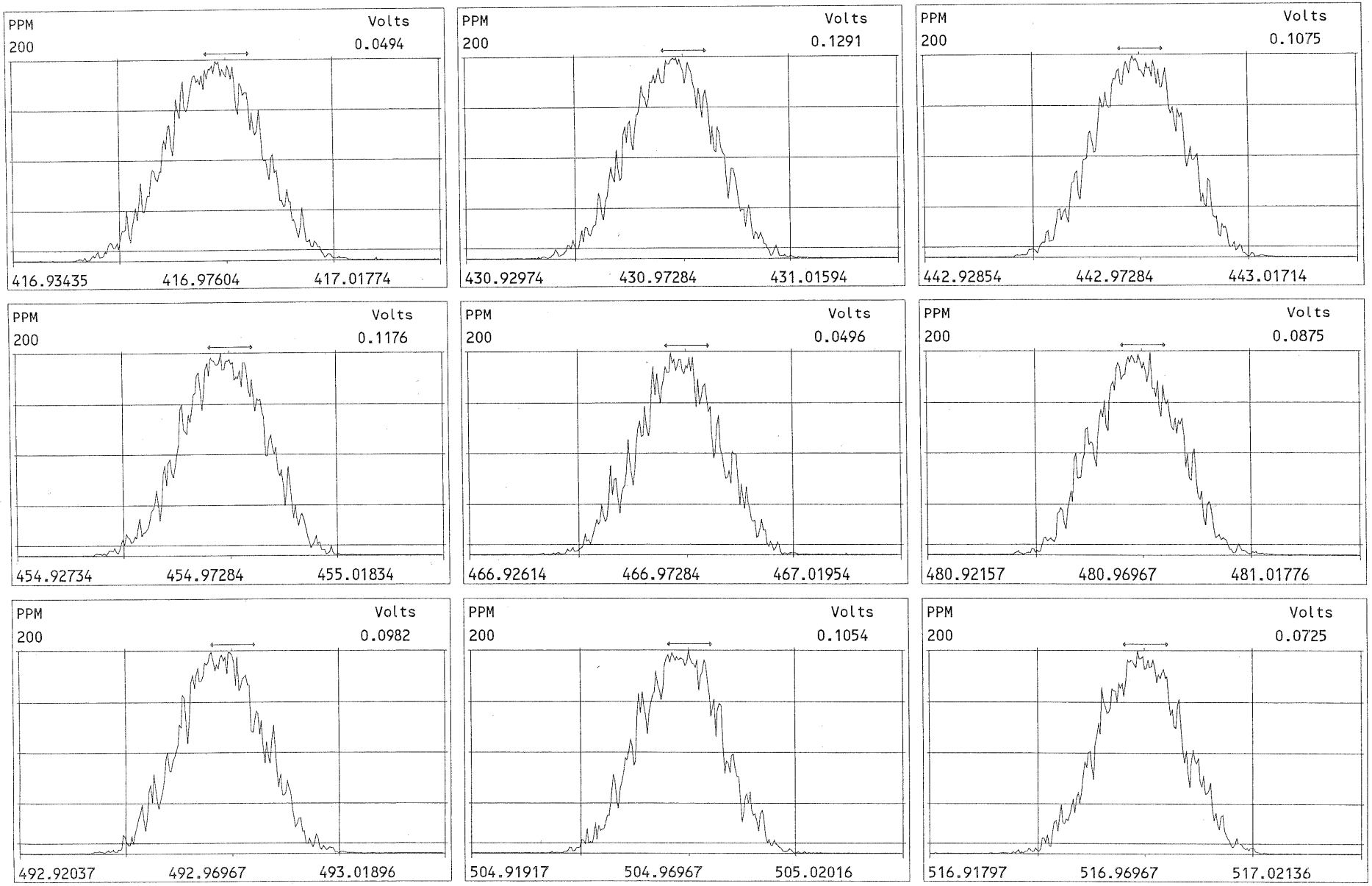








Peak Locate Examination: 6-JAN-2017:21:56 File:06JAN17Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK52



Cal: DAILY209FAL4-1-6-17

Run: 06JAN17Z Analyte: DAILY209FAL4-1-6-17 Results: 10322 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:06JAN17Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	0.9017	-	0.90	
13C-PCB-1	1.1203	-	1.12	
PCB-2	0.8468	-	0.85	
PCB-3	0.8876	-	0.89	
13C-PCB-3	1.1409	-	1.14	
PCB-4	1.0929	-	1.09	
PCB-10	1.0094	-	1.01	
13C-PCB-4	0.6128	-	0.61	
PCB-9	1.1037	-	1.10	
PCB-7	1.1440	-	1.14	
PCB-6	1.1427	-	1.14	
PCB-8	1.1197	-	1.12	
PCB-5	1.0793	-	1.08	
PCB-14	1.0953	-	1.10	
PCB-11	1.0689	-	1.07	
PCB-13	1.0671	-	1.07	
PCB-12	1.0438	-	1.04	
PCB-15	0.9898	-	0.99	
13C-PCB-15	1.0029	-	1.00	
PCB-19	0.9370	-	0.94	
PCB-30	1.3405	-	1.34	
PCB-18	0.9419	-	0.94	
PCB-17	1.0188	-	1.02	
PCB-27	1.3099	-	1.31	
PCB-24	1.3504	-	1.35	
PCB-16	1.0076	-	1.01	
PCB-32	1.2773	-	1.28	
13C-PCB-19	0.6790	-	0.68	
13C-PCB-9	-	-	-	
PCB-34	0.9078	-	0.91	
PCB-23	1.0299	-	1.03	
PCB-29	1.0442	-	1.04	
PCB-26	1.0087	-	1.01	
PCB-25	1.1657	-	1.17	
PCB-31	1.0166	-	1.02	
PCB-28	1.1792	-	1.18	
PCB-20	1.0248	-	1.02	Co-elute PCB 21/33
PCB-21	1.0248	-	1.02	Co-elute PCB 20/33
PCB-33	1.0248	-	1.02	Co-elute PCB 20/21
PCB-22	1.0305	-	1.03	
PCB-36	0.9949	-	0.99	
PCB-39	0.9879	-	0.99	
PCB-38	0.9961	-	1.00	
PCB-35	0.9394	-	0.94	
PCB-37	1.0629	-	1.06	
13C-PCB-37	1.0855	-	1.09	

PCB-54	0.9486	-	0.95	
PCB-50	0.7331	-	0.73	
PCB-53	0.7279	-	0.73	
PCB-51	0.7497	-	0.75	
PCB-45	0.6493	-	0.65	
PCB-46	0.6168	-	0.62	
PCB-52	0.8588	-	0.86	Co-elute PCB 69
PCB-69	0.8588	-	0.86	Co-elute PCB 52
PCB-73	1.0423	-	1.04	
PCB-43	0.7182	-	0.72	Co-elute PCB 49
PCB-49	0.7182	-	0.72	Co-elute PCB 43
PCB-47	0.9098	-	0.91	
PCB-48	0.8948	-	0.89	Co-elute PCB 75
PCB-75	0.8948	-	0.89	Co-elute PCB 48
PCB-65	0.8980	-	0.90	
PCB-62	0.9299	-	0.93	
PCB-44	0.6600	-	0.66	
PCB-42	0.8810	-	0.88	Co-elute PCB 59
PCB-59	0.8810	-	0.88	Co-elute PCB 42
PCB-72	0.9585	-	0.96	Co-elute PCB 41/71/64
PCB-41	0.9585	-	0.96	Co-elute PCB 72/71/64
PCB-71	0.9585	-	0.96	Co-elute PCB 72/41/64
PCB-64	0.9585	-	0.96	Co-elute PCB 72/41/71
PCB-68	1.0216	-	1.02	
PCB-40	0.5584	-	0.56	
PCB-57	0.9594	-	0.96	
PCB-67	0.9478	-	0.95	
PCB-58	0.9859	-	0.99	
PCB-63	0.9886	-	0.99	
PCB-74	1.0161	-	1.02	
PCB-61	1.0584	-	1.06	Co-elute PCB 70
PCB-70	1.0584	-	1.06	Co-elute PCB 61
PCB-76	0.9998	-	1.00	Co-elute PCB 66
PCB-66	0.9998	-	1.00	Co-elute PCB 76
PCB-80	1.1170	-	1.12	
PCB-55	0.9871	-	0.99	
13C-PCB-54	1.0874	-	1.09	
PCB-104	1.0382	-	1.04	
PCB-96	0.9528	-	0.95	
PCB-103	0.8222	-	0.82	
PCB-100	0.8090	-	0.81	
PCB-94	0.6880	-	0.69	
PCB-98	0.8962	-	0.90	Co-elute PCB 102
PCB-102	0.8962	-	0.90	Co-elute PCB 98
PCB-95	0.6454	-	0.65	
PCB-93	0.6441	-	0.64	
PCB-88	0.7625	-	0.76	Co-elute PCB 91
PCB-91	0.7625	-	0.76	Co-elute PCB 88
PCB-121	0.9335	-	0.93	
13C-PCB-104	0.9416	-	0.94	
13C-PCB-28	1.1946	-	1.19	
13C-PCB-52	-	-	-	

PCB-56	1.0006	-	1.00	Co-elute PCB 60
PCB-60	1.0006	-	1.00	Co-elute PCB 56
PCB-79	1.0153	-	1.02	
PCB-78	0.9876	-	0.99	
PCB-81	1.0549	-	1.05	
13C-PCB-81	1.0066	-	1.01	
PCB-77	0.9747	-	0.97	
13C-PCB-77	1.0235	-	1.02	
PCB-155	0.9652	-	0.97	
PCB-150	0.9015	-	0.90	
PCB-152	0.8914	-	0.89	
PCB-145	0.8882	-	0.89	
PCB-136	0.9219	-	0.92	
PCB-148	0.6448	-	0.64	
PCB-154	0.7993	-	0.80	
13C-PCB-155	1.1222	-	1.12	
13C-PCB-111	1.1365	-	1.14	
13C-PCB-101	-	-	-	
PCB-84	0.7805	-	0.78	Co-elute PCB 92
PCB-92	0.7805	-	0.78	Co-elute PCB 84
PCB-89	0.7548	-	0.75	
PCB-90	0.8747	-	0.87	Co-elute PCB 101
PCB-101	0.8747	-	0.87	Co-elute PCB 90
PCB-113	0.9657	-	0.97	
PCB-99	0.9921	-	0.99	
PCB-119	1.1401	-	1.14	
PCB-83	0.8657	-	0.87	Co-elute PCB 112
PCB-112	0.8657	-	0.87	Co-elute PCB 83
PCB-109	1.0440	-	1.04	
PCB-97	0.9552	-	0.96	
PCB-86	0.7966	*	0.80	
PCB-125	1.0041	-	1.00	Co-elute PCB 87/117
PCB-87	1.0041	-	1.00	Co-elute PCB 125/117
PCB-117	1.0041	-	1.00	Co-elute PCB 125/87
PCB-111	1.2313	-	1.23	Co-elute PCB 115
PCB-115	1.2313	-	1.23	Co-elute PCB 111
PCB-85	0.9439	-	0.94	Co-elute PCB 116
PCB-116	0.9439	-	0.94	Co-elute PCB 85
PCB-120	1.1960	-	1.20	
PCB-110	1.1352	-	1.14	
PCB-82	0.6746	-	0.67	
PCB-124	0.9908	-	0.99	
PCB-108	0.9687	-	0.97	Co-elute PCB 107
PCB-107	0.9687	-	0.97	Co-elute PCB 108
PCB-123	1.1192	-	1.12	
13C-PCB-123	0.9956	-	1.00	
PCB-118	0.9210	*	0.92	Co-elute PCB 106
PCB-106	0.9210	*	0.92	Co-elute PCB 118
13C-PCB-118	1.0528	-	1.05	
PCB-114	1.0285	-	1.03	
13C-PCB-114	1.0196	-	1.02	
PCB-122	0.9667	-	0.97	
PCB-105	1.0041	-	1.00	
13C-PCB-105	1.0180	-	1.02	
PCB-127	0.9299	-	0.93	
PCB-126	1.0005	-	1.00	
13C-PCB-126	0.9542	-	0.95	

PCB-151	0.7040	-	0.70	
PCB-135	0.7012	-	0.70	
PCB-144	0.7085	-	0.71	
PCB-147	0.7764	-	0.78	
PCB-139	0.7629	-	0.76	Co-elute PCB 149
PCB-149	0.7629	-	0.76	Co-elute PCB 139
PCB-140	0.7532	-	0.75	
PCB-143	0.6979	-	0.70	Co-elute PCB 134
PCB-134	0.6979	-	0.70	Co-elute PCB 143
PCB-131	0.7017	-	0.70	Co-elute PCB 133
PCB-133	0.7017	-	0.70	Co-elute PCB 131
PCB-142	0.6310	-	0.63	
PCB-165	0.8435	-	0.84	Co-elute PCB 146
PCB-146	0.8435	-	0.84	Co-elute PCB 165
PCB-161	0.7727	-	0.77	Co-elute PCB 132
PCB-132	0.7727	-	0.77	Co-elute PCB 161
PCB-153	0.8642	-	0.86	
PCB-168	0.9177	-	0.92	
PCB-141	0.7228	-	0.72	
PCB-137	0.6349	-	0.63	
PCB-130	0.6931	-	0.69	
PCB-138	0.9434	-	0.94	Co-elute PCB 163/164
PCB-163	0.9434	-	0.94	Co-elute PCB 138/164
PCB-164	0.9434	-	0.94	Co-elute PCB 138/163
PCB-158	0.9474	-	0.95	Co-elute PCB 160
PCB-160	0.9474	-	0.95	Co-elute PCB 158
PCB-129	0.5893	-	0.59	
PCB-166	0.9001	-	0.90	
PCB-159	0.9678	-	0.97	
PCB-128	0.7871	-	0.79	Co-elute PCB 162
PCB-162	0.7871	-	0.79	Co-elute PCB 128
PCB-167	0.8826	-	0.88	
13C-PCB-167	1.1417	-	1.14	
PCB-156	0.9257	-	0.93	
13C-PCB-156	1.1231	-	1.12	
PCB-157	0.8871	-	0.89	
13C-PCB-157	1.1431	-	1.14	
PCB-169	0.8816	-	0.88	
13C-PCB-169	1.0666	-	1.07	
PCB-188	1.0040	-	1.00	
13C-PCB-188	1.2582	-	1.26	

PCB-184	1.0816	-	1.08	
PCB-179	1.0419	-	1.04	
PCB-176	1.0128	-	1.01	
PCB-186	0.9990	-	1.00	
PCB-178	0.7353	-	0.74	
PCB-175	0.7805	-	0.78	
PCB-187	0.8260	-	0.83	Co-elute PCB 182
PCB-182	0.8260	-	0.83	Co-elute PCB 187
PCB-183	0.8220	-	0.82	
PCB-185	0.7614	-	0.76	
PCB-174	0.7412	-	0.74	
PCB-181	0.7950	-	0.79	
PCB-177	0.7120	-	0.71	
PCB-171	0.7403	-	0.74	
PCB-173	0.6827	-	0.68	
PCB-172	0.7145	-	0.71	
PCB-192	0.9202	-	0.92	
PCB-180	0.9198	-	0.92	
PCB-193	1.0122	-	1.01	
PCB-191	0.9663	-	0.97	
PCB-170	0.6657	-	0.67	
PCB-190	0.9264	-	0.93	
PCB-189	1.0011	-	1.00	
13C-PCB-189	1.0697	-	1.07	
PCB-202	0.8304	-	0.83	
PCB-201	0.8446	-	0.84	
PCB-204	0.8722	-	0.87	
PCB-197	0.8928	-	0.89	
PCB-200	0.8434	-	0.84	
PCB-198	0.6130	-	0.61	
PCB-199	0.6253	-	0.63	
PCB-203	0.6684	-	0.67	Co-elute PCB 196
PCB-196	0.6684	-	0.67	Co-elute PCB 203
13C-PCB-202	1.1210	-	1.12	
13C-PCB-178	0.8918	-	0.89	
13C-PCB-138	-	-	-	
PCB-195	0.7220	-	0.72	
PCB-194	0.7719	-	0.77	
PCB-205	0.9927	-	0.99	
13C-PCB-205	1.2232	-	1.22	
PCB-208	0.8885	-	0.89	
13C-PCB-208	1.3111	-	1.31	
PCB-207	0.9754	-	0.98	
PCB-206	0.9155	-	0.92	
13C-PCB-206	0.9663	-	0.97	
PCB-209	0.9599	-	0.96	
13C-PCB-209	1.4581	-	1.46	
13C-PCB-194	-	-	-	

Analyst: _____ Date: 1/10/17

Run #1 Filename 06JAN17Z S: 2 Acquired: 6-JAN-17 09:12:35 Cal: DAILY209FAL4-1-6-17
Client ID: SS010617Z1 Analyte: FAL ID: CS20951

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	3.36e+07	3.12 y	14:31	-	0.902	
2	IS/RT	13C-PCB-1	100.00	7.45e+07	3.04 y	14:30	-	1.12	
3	Unk	PCB-2	50.00	3.18e+07	3.15 y	16:44	-	0.847	
4	Unk	PCB-3	50.00	3.37e+07	3.18 y	16:58	-	0.888	
5	IS/RT	13C-PCB-3	100.00	7.59e+07	3.11 y	16:57	-	1.14	
6	Unk	PCB-4	50.00	2.23e+07	1.51 y	18:12	-	1.09	
7	Unk	PCB-10	50.00	2.71e+07	1.51 y	18:16	-	1.01	
8	IS/RT	13C-PCB-4	100.00	4.07e+07	1.60 y	18:11	-	0.613	
9	Unk	PCB-9	50.00	2.96e+07	1.48 y	19:55	-	1.10	
10	Unk	PCB-7	50.00	3.07e+07	1.55 y	19:56	-	1.14	
11	Unk	PCB-6	50.00	3.07e+07	1.52 y	20:31	-	1.14	
12	Unk	PCB-8	50.00	3.01e+07	1.49 y	20:55	-	1.12	
13	Unk	PCB-5	50.00	2.90e+07	1.57 y	20:56	-	1.08	
14	Unk	PCB-14	50.00	2.94e+07	1.53 y	21:57	-	1.10	
15	Unk	PCB-11	50.00	2.87e+07	1.50 y	23:05	-	1.07	
16	Unk	PCB-13	50.00	2.87e+07	1.47 y	23:26	-	1.07	
17	Unk	PCB-12	50.00	2.80e+07	1.53 y	23:29	-	1.04	
18	Unk	PCB-15	50.00	3.30e+07	1.51 y	23:45	-	0.990	
19	IS/RT	13C-PCB-15	100.00	6.67e+07	1.58 y	23:44	-	1.00	
20	Unk	PCB-19	50.00	2.11e+07	1.03 y	22:06	-	0.937	
21	Unk	PCB-30	50.00	3.03e+07	1.04 y	22:57	-	1.34	
22	Unk	PCB-18	50.00	2.13e+07	1.02 y	23:39	-	0.942	
23	Unk	PCB-17	50.00	2.30e+07	1.04 y	23:49	-	1.02	
24	Unk	PCB-27	50.00	2.96e+07	1.02 y	24:21	-	1.31	
25	Unk	PCB-24	50.00	3.05e+07	1.03 y	24:22	-	1.35	
26	Unk	PCB-16	50.00	2.27e+07	1.04 y	24:50	-	1.01	
27	Unk	PCB-32	50.00	2.88e+07	1.02 y	24:51	-	1.28	
28	IS/RT	13C-PCB-19	100.00	4.51e+07	1.07 y	22:04	-	0.679	
29	RS	13C-PCB-9	100.00	6.65e+07	1.56 y	19:52	6.65e+05	-	
30	Unk	PCB-34	50.00	2.40e+07	1.00 y	25:37	-	0.908	
31	Unk	PCB-23	50.00	2.73e+07	1.03 y	25:42	-	1.03	
32	Unk	PCB-29	50.00	2.77e+07	1.04 y	25:57	-	1.04	
33	Unk	PCB-26	50.00	2.67e+07	1.04 y	26:09	-	1.01	
34	Unk	PCB-25	50.00	3.09e+07	1.02 y	26:17	-	1.17	
35	Unk	PCB-31	50.00	2.69e+07	1.15 y	26:38	-	1.02	
36	Unk	PCB-28	50.00	3.12e+07	0.93 y	26:44	-	1.18	
37	Unk	PCB-20	150.00	8.14e+07	1.01 y	27:18	-	1.02	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	8.14e+07	1.01 y	27:18	-	1.02	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	8.14e+07	1.01 y	27:18	-	1.02	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	2.73e+07	1.03 y	27:43	-	1.03	
41	Unk	PCB-36	50.00	2.63e+07	1.03 y	28:20	-	0.995	
42	Unk	PCB-39	50.00	2.62e+07	1.01 y	28:47	-	0.988	
43	Unk	PCB-38	50.00	2.64e+07	1.03 y	29:31	-	0.996	
44	Unk	PCB-35	50.00	2.49e+07	1.03 y	29:60	-	0.939	
45	Unk	PCB-37	50.00	2.81e+07	1.03 y	30:25	-	1.06	
46	IS	13C-PCB-37	100.00	5.30e+07	1.07 y	30:24	-	1.09	

47	Unk	PCB-54	100.00	5.03e+07	0.78	y	25:38	-	0.949	
48	Unk	PCB-50	100.00	3.89e+07	0.77	y	26:45	-	0.733	
49	Unk	PCB-53	100.00	3.86e+07	0.77	y	27:22	-	0.728	
50	Unk	PCB-51	100.00	3.98e+07	0.77	y	27:41	-	0.750	
51	Unk	PCB-45	100.00	3.44e+07	0.77	y	28:06	-	0.649	
52	Unk	PCB-46	100.00	3.27e+07	0.77	y	28:33	-	0.617	
53	Unk	PCB-52	200.00	9.11e+07	0.76	y	29:02	-	0.859	Co-elute PCB 69
54	Unk	PCB-69	200.00	9.11e+07	0.76	y	29:02	-	0.859	Co-elute PCB 52
55	Unk	PCB-73	100.00	5.53e+07	0.79	y	29:07	-	1.04	
56	Unk	PCB-43	200.00	7.62e+07	0.78	y	29:17	-	0.718	Co-elute PCB 49
57	Unk	PCB-49	200.00	7.62e+07	0.78	y	29:17	-	0.718	Co-elute PCB 43
58	Unk	PCB-47	100.00	4.83e+07	0.75	y	29:30	-	0.910	
59	Unk	PCB-48	200.00	9.49e+07	0.78	y	29:36	-	0.895	Co-elute PCB 75
60	Unk	PCB-75	200.00	9.49e+07	0.78	y	29:36	-	0.895	Co-elute PCB 48
61	Unk	PCB-65	100.00	4.76e+07	0.88	y	29:51	-	0.898	
62	Unk	PCB-62	100.00	4.93e+07	0.69	y	29:57	-	0.930	
63	Unk	PCB-44	100.00	3.50e+07	0.77	y	30:14	-	0.660	
64	Unk	PCB-42	200.00	9.35e+07	0.77	y	30:26	-	0.881	Co-elute PCB 59
65	Unk	PCB-59	200.00	9.35e+07	0.77	y	30:26	-	0.881	Co-elute PCB 42
66	Unk	PCB-72	400.00	2.03e+08	0.77	y	31:01	-	0.959	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	2.03e+08	0.77	y	31:01	-	0.959	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	2.03e+08	0.77	y	31:01	-	0.959	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	2.03e+08	0.77	y	31:01	-	0.959	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	5.42e+07	0.77	y	31:16	-	1.02	
71	Unk	PCB-40	100.00	2.96e+07	0.77	y	31:27	-	0.558	
72	Unk	PCB-57	100.00	5.09e+07	0.78	y	31:49	-	0.959	
73	Unk	PCB-67	100.00	5.03e+07	0.77	y	32:06	-	0.948	
74	Unk	PCB-58	100.00	5.23e+07	0.79	y	32:13	-	0.986	
75	Unk	PCB-63	100.00	5.24e+07	0.78	y	32:21	-	0.989	
76	Unk	PCB-74	100.00	5.39e+07	0.76	y	32:38	-	1.02	
77	Unk	PCB-61	200.00	1.12e+08	0.77	y	32:49	-	1.06	Co-elute PCB 70
78	Unk	PCB-70	200.00	1.12e+08	0.77	y	32:49	-	1.06	Co-elute PCB 61
79	Unk	PCB-76	200.00	1.06e+08	0.78	y	33:01	-	1.000	Co-elute PCB 66
80	Unk	PCB-66	200.00	1.06e+08	0.78	y	33:01	-	1.000	Co-elute PCB 76
81	Unk	PCB-80	100.00	5.93e+07	0.77	y	33:15	-	1.12	
82	Unk	PCB-55	100.00	5.24e+07	0.77	y	33:32	-	0.987	
83	IS/RT	13C-PCB-54	100.00	5.31e+07	0.79	y	25:37	-	1.09	
84	Unk	PCB-104	100.00	4.77e+07	1.60	y	30:05	-	1.04	
85	Unk	PCB-96	100.00	4.38e+07	1.60	y	31:17	-	0.953	
86	Unk	PCB-103	100.00	3.78e+07	1.61	y	31:49	-	0.822	
87	Unk	PCB-100	100.00	3.72e+07	1.60	y	32:09	-	0.809	
88	Unk	PCB-94	100.00	3.16e+07	1.58	y	32:34	-	0.688	
89	Unk	PCB-98	200.00	8.23e+07	1.61	y	33:02	-	0.896	Co-elute PCB 102
90	Unk	PCB-102	200.00	8.23e+07	1.61	y	33:02	-	0.896	Co-elute PCB 98
91	Unk	PCB-95	100.00	2.97e+07	1.57	y	33:06	-	0.645	
92	Unk	PCB-93	100.00	2.96e+07	1.69	y	33:09	-	0.644	
93	Unk	PCB-88	200.00	7.01e+07	1.60	y	33:27	-	0.762	Co-elute PCB 91
94	Unk	PCB-91	200.00	7.01e+07	1.60	y	33:27	-	0.762	Co-elute PCB 88
95	Unk	PCB-121	100.00	4.29e+07	1.59	y	33:33	-	0.934	
96	IS	13C-PCB-104	100.00	4.59e+07	1.57	y	30:04	-	0.942	
97	C/Up	13C-PCB-28	100.00	5.83e+07	1.07	y	26:43	-	1.19	
98	RS	13C-PCB-52	100.00	4.88e+07	0.79	y	28:59	4.88e+05	-	
99	Unk	PCB-56	200.00	9.33e+07	0.76	y	34:01	-	1.00	Co-elute PCB 60
100	Unk	PCB-60	200.00	9.33e+07	0.76	y	34:01	-	1.00	Co-elute PCB 56

101	Unk	PCB-79	100.00	4.73e+07	0.78 y	35:02	-	1.02	
102	Unk	PCB-78	100.00	4.61e+07	0.78 y	35:42	-	0.988	
103	Unk	PCB-81	100.00	4.88e+07	0.79 y	36:12	-	1.05	
104	IS	13C-PCB-81	100.00	4.62e+07	0.80 y	36:11	-	1.01	
105	Unk	PCB-77	100.00	4.58e+07	0.78 y	36:45	-	0.975	
106	IS/RT	13C-PCB-77	100.00	4.70e+07	0.81 y	36:44	-	1.02	
107	Unk	PCB-155	100.00	4.98e+07	1.28 y	34:16	-	0.965	
108	Unk	PCB-150	100.00	4.65e+07	1.26 y	35:27	-	0.901	
109	Unk	PCB-152	100.00	4.60e+07	1.27 y	35:54	-	0.891	
110	Unk	PCB-145	100.00	4.58e+07	1.26 y	36:20	-	0.888	
111	Unk	PCB-136	100.00	4.75e+07	1.25 y	36:38	-	0.922	
112	Unk	PCB-148	100.00	3.32e+07	1.28 y	36:44	-	0.645	
113	Unk	PCB-154	100.00	4.12e+07	1.27 y	37:12	-	0.799	
114	IS	13C-PCB-155	100.00	5.16e+07	1.26 y	34:15	-	1.12	
115	C/Up	13C-PCB-111	100.00	5.22e+07	1.56 y	36:20	-	1.14	
116	RS	13C-PCB-101	100.00	4.59e+07	1.57 y	34:41	4.59e+05	-	
117	Unk	PCB-84	200.00	6.60e+07	1.55 y	34:20	-	0.780	Co-elute PCB 92
118	Unk	PCB-92	200.00	6.60e+07	1.55 y	34:20	-	0.780	Co-elute PCB 84
119	Unk	PCB-89	100.00	3.19e+07	1.57 y	34:31	-	0.755	
120	Unk	PCB-90	200.00	7.40e+07	1.53 y	34:41	-	0.875	Co-elute PCB 101
121	Unk	PCB-101	200.00	7.40e+07	1.53 y	34:41	-	0.875	Co-elute PCB 90
122	Unk	PCB-113	100.00	4.09e+07	1.53 y	34:55	-	0.966	
123	Unk	PCB-99	100.00	4.20e+07	1.57 y	35:02	-	0.992	
124	Unk	PCB-119	100.00	4.82e+07	1.54 y	35:27	-	1.14	
125	Unk	PCB-83	200.00	7.32e+07	1.53 y	35:36	-	0.866	Co-elute PCB 112
126	Unk	PCB-112	200.00	7.32e+07	1.53 y	35:36	-	0.866	Co-elute PCB 83
127	Unk	PCB-109	100.00	4.42e+07	1.55 y	35:46	-	1.04	
128	Unk	PCB-97	100.00	4.04e+07	1.54 y	35:56	-	0.955	
129	Unk	PCB-86	100.00	3.37e+07	1.53 y	36:05	-	0.797	
130	Unk	PCB-125	300.00	1.27e+08	1.54 y	36:12	-	1.00	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	1.27e+08	1.54 y	36:12	-	1.00	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	1.27e+08	1.54 y	36:12	-	1.00	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	1.04e+08	1.54 y	36:21	-	1.23	Co-elute PCB 115
134	Unk	PCB-115	200.00	1.04e+08	1.54 y	36:21	-	1.23	Co-elute PCB 111
135	Unk	PCB-85	200.00	7.99e+07	1.54 y	36:29	-	0.944	Co-elute PCB 116
136	Unk	PCB-116	200.00	7.99e+07	1.54 y	36:29	-	0.944	Co-elute PCB 85
137	Unk	PCB-120	100.00	5.06e+07	1.53 y	36:43	-	1.20	
138	Unk	PCB-110	100.00	4.80e+07	1.53 y	36:50	-	1.14	
139	Unk	PCB-82	100.00	2.85e+07	1.53 y	37:26	-	0.675	
140	Unk	PCB-124	100.00	4.19e+07	1.77 y	38:05	-	0.991	
141	Unk	PCB-108	200.00	8.20e+07	1.43 y	38:15	-	0.969	Co-elute PCB 107
142	Unk	PCB-107	200.00	8.20e+07	1.43 y	38:15	-	0.969	Co-elute PCB 108
143	Unk	PCB-123	100.00	4.61e+07	1.55 y	38:23	-	1.12	
144	IS	13C-PCB-123	100.00	4.12e+07	1.58 y	38:23	-	0.996	
145	Unk	PCB-118	200.00	8.03e+07	1.56 y	38:36	-	0.921	Co-elute PCB 106
146	Unk	PCB-106	200.00	8.03e+07	1.56 y	38:36	-	0.921	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	4.36e+07	1.57 y	38:33	-	1.05	
148	Unk	PCB-114	100.00	4.34e+07	1.57 y	39:11	-	1.03	
149	IS	13C-PCB-114	100.00	4.22e+07	1.58 y	39:11	-	1.02	
150	Unk	PCB-122	100.00	4.09e+07	1.54 y	39:19	-	0.967	
151	Unk	PCB-105	100.00	4.23e+07	1.56 y	40:00	-	1.00	
152	IS	13C-PCB-105	100.00	4.22e+07	1.59 y	39:58	-	1.02	
153	Unk	PCB-127	100.00	3.93e+07	1.55 y	40:20	-	0.930	
154	Unk	PCB-126	100.00	3.95e+07	1.60 y	42:09	-	1.00	
155	IS	13C-PCB-126	100.00	3.95e+07	1.59 y	42:07	-	0.954	

156	Unk	PCB-151	100.00	3.26e+07	1.25 y	37:50	-	0.704	
157	Unk	PCB-135	100.00	3.25e+07	1.22 y	38:02	-	0.701	
158	Unk	PCB-144	100.00	3.28e+07	1.26 y	38:08	-	0.708	
159	Unk	PCB-147	100.00	3.60e+07	1.25 y	38:15	-	0.776	
160	Unk	PCB-139	200.00	7.07e+07	1.24 y	38:31	-	0.763	Co-elute PCB 149
161	Unk	PCB-149	200.00	7.07e+07	1.24 y	38:31	-	0.763	Co-elute PCB 139
162	Unk	PCB-140	100.00	3.49e+07	1.25 y	38:41	-	0.753	
163	Unk	PCB-143	200.00	6.47e+07	1.23 y	39:06	-	0.698	Co-elute PCB 134
164	Unk	PCB-134	200.00	6.47e+07	1.23 y	39:06	-	0.698	Co-elute PCB 143
165	Unk	PCB-131	200.00	6.50e+07	1.23 y	39:22	-	0.702	Co-elute PCB 133
166	Unk	PCB-133	200.00	6.50e+07	1.23 y	39:22	-	0.702	Co-elute PCB 131
167	Unk	PCB-142	100.00	2.92e+07	1.23 y	39:32	-	0.631	
168	Unk	PCB-165	200.00	7.82e+07	1.23 y	39:44	-	0.844	Co-elute PCB 146
169	Unk	PCB-146	200.00	7.82e+07	1.23 y	39:44	-	0.844	Co-elute PCB 165
170	Unk	PCB-161	200.00	7.16e+07	1.24 y	39:58	-	0.773	Co-elute PCB 132
171	Unk	PCB-132	200.00	7.16e+07	1.24 y	39:58	-	0.773	Co-elute PCB 161
172	Unk	PCB-153	100.00	4.00e+07	1.24 y	40:08	-	0.864	
173	Unk	PCB-168	100.00	4.25e+07	1.24 y	40:20	-	0.918	
174	Unk	PCB-141	100.00	3.35e+07	1.23 y	40:50	-	0.723	
175	Unk	PCB-137	100.00	2.94e+07	1.22 y	41:13	-	0.635	
176	Unk	PCB-130	100.00	3.21e+07	1.25 y	41:17	-	0.693	
177	Unk	PCB-138	300.00	1.31e+08	1.25 y	41:39	-	0.943	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	1.31e+08	1.25 y	41:39	-	0.943	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	1.31e+08	1.25 y	41:39	-	0.943	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	8.78e+07	1.22 y	41:54	-	0.947	Co-elute PCB 160
181	Unk	PCB-160	200.00	8.78e+07	1.22 y	41:54	-	0.947	Co-elute PCB 158
182	Unk	PCB-129	100.00	2.73e+07	1.24 y	42:07	-	0.589	
183	Unk	PCB-166	100.00	4.17e+07	1.25 y	42:33	-	0.900	
184	Unk	PCB-159	100.00	4.48e+07	1.25 y	42:51	-	0.968	
185	Unk	PCB-128	200.00	7.29e+07	1.24 y	43:08	-	0.787	Co-elute PCB 162
186	Unk	PCB-162	200.00	7.29e+07	1.24 y	43:08	-	0.787	Co-elute PCB 128
187	Unk	PCB-167	100.00	4.17e+07	1.23 y	43:31	-	0.883	
188	IS	13C-PCB-167	100.00	4.73e+07	1.26 y	43:29	-	1.14	
189	Unk	PCB-156	100.00	4.31e+07	1.25 y	44:45	-	0.926	
190	IS	13C-PCB-156	100.00	4.65e+07	1.27 y	44:43	-	1.12	
191	Unk	PCB-157	100.00	4.20e+07	1.24 y	44:60	-	0.887	
192	IS	13C-PCB-157	100.00	4.73e+07	1.26 y	44:58	-	1.14	
193	Unk	PCB-169	100.00	3.89e+07	1.25 y	46:53	-	0.882	
194	IS	13C-PCB-169	100.00	4.42e+07	1.25 y	46:52	-	1.07	
195	Unk	PCB-188	100.00	5.23e+07	1.03 y	39:45	-	1.00	
196	IS	13C-PCB-188	100.00	5.21e+07	1.06 y	39:45	-	1.26	

197	Unk	PCB-184	100.00	5.21e+07	1.04	y	40:12	-	1.08	
198	Unk	PCB-179	100.00	5.02e+07	1.05	y	40:56	-	1.04	
199	Unk	PCB-176	100.00	4.88e+07	1.05	y	41:22	-	1.01	
200	Unk	PCB-186	100.00	4.82e+07	1.04	y	41:57	-	0.999	
201	Unk	PCB-178	100.00	3.54e+07	1.05	y	42:25	-	0.735	
202	Unk	PCB-175	100.00	3.76e+07	1.05	y	42:45	-	0.780	
203	Unk	PCB-187	200.00	7.96e+07	1.06	y	42:55	-	0.826	Co-elute PCB 182
204	Unk	PCB-182	200.00	7.96e+07	1.06	y	42:55	-	0.826	Co-elute PCB 187
205	Unk	PCB-183	100.00	3.96e+07	1.04	y	43:13	-	0.822	
206	Unk	PCB-185	100.00	3.67e+07	1.05	y	43:51	-	0.761	
207	Unk	PCB-174	100.00	3.57e+07	1.03	y	44:10	-	0.741	
208	Unk	PCB-181	100.00	3.83e+07	1.05	y	44:17	-	0.795	
209	Unk	PCB-177	100.00	3.43e+07	1.04	y	44:27	-	0.712	
210	Unk	PCB-171	100.00	3.57e+07	1.05	y	44:43	-	0.740	
211	Unk	PCB-173	100.00	3.29e+07	1.05	y	45:08	-	0.683	
212	Unk	PCB-172	100.00	3.44e+07	1.05	y	45:31	-	0.715	
213	Unk	PCB-192	100.00	4.44e+07	1.05	y	45:42	-	0.920	
214	Unk	PCB-180	100.00	4.43e+07	1.05	y	45:52	-	0.920	
215	Unk	PCB-193	100.00	4.88e+07	1.04	y	46:02	-	1.01	
216	Unk	PCB-191	100.00	4.66e+07	1.04	y	46:15	-	0.966	
217	Unk	PCB-170	100.00	3.21e+07	1.05	y	47:10	-	0.666	
218	Unk	PCB-190	100.00	4.47e+07	1.04	y	47:20	-	0.926	
219	Unk	PCB-189	100.00	4.43e+07	1.06	y	48:34	-	1.00	
220	IS	13C-PCB-189	100.00	4.43e+07	1.04	y	48:32	-	1.07	
221	Unk	PCB-202	150.00	5.78e+07	0.89	y	44:55	-	0.830	
222	Unk	PCB-201	150.00	5.88e+07	0.88	y	45:21	-	0.845	
223	Unk	PCB-204	150.00	6.07e+07	0.88	y	45:29	-	0.872	
224	Unk	PCB-197	150.00	6.22e+07	0.88	y	45:46	-	0.893	
225	Unk	PCB-200	150.00	5.87e+07	0.88	y	46:30	-	0.843	
226	Unk	PCB-198	150.00	4.27e+07	0.88	y	47:41	-	0.613	
227	Unk	PCB-199	150.00	4.35e+07	0.89	y	47:48	-	0.625	
228	Unk	PCB-203	300.00	9.31e+07	0.88	y	48:02	-	0.668	Co-elute PCB 196
229	Unk	PCB-196	300.00	9.31e+07	0.88	y	48:02	-	0.668	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	4.64e+07	0.91	y	44:53	-	1.12	
231	C/Up	13C-PCB-178	100.00	3.69e+07	1.06	y	42:23	-	0.892	
232	RS	13C-PCB-138	100.00	4.14e+07	1.27	y	41:37	4.14e+05	-	
233	Unk	PCB-195	150.00	3.78e+07	0.88	y	49:10	-	0.722	
234	Unk	PCB-194	150.00	4.04e+07	0.88	y	49:59	-	0.772	
235	Unk	PCB-205	150.00	5.19e+07	0.89	y	50:14	-	0.993	
236	IS	13C-PCB-205	100.00	3.49e+07	0.92	y	50:14	-	1.22	
237	Unk	PCB-208	150.00	4.98e+07	1.36	y	49:17	-	0.888	
238	IS	13C-PCB-208	100.00	3.74e+07	0.79	y	49:15	-	1.31	
239	Unk	PCB-207	150.00	4.75e+07	1.35	y	49:35	-	0.975	
240	Unk	PCB-206	150.00	3.78e+07	1.35	y	51:30	-	0.915	
241	IS	13C-PCB-206	100.00	2.76e+07	0.79	y	51:29	-	0.966	
242	Unk	PCB-209	150.00	5.99e+07	1.17	y	52:45	-	0.960	
243	IS	13C-PCB-209	100.00	4.16e+07	1.19	y	52:45	-	1.46	
244	RS	13C-PCB-194	100.00	2.85e+07	0.93	y	49:58	2.85e+05	-	

Analyst: _____ Date: 1/10/17

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1/6/17

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 06JAN17Z Sam:1 Analysis Date: 6-JAN-17 08:14:16

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.13	2.66-3.60	y	52.3	37.5 - 62.5
PCB-3	M/M+2	3.13	2.66-3.60	y	53.6	37.5 - 62.5
PCB-4	M/M+2	1.51	1.33-1.79	y	47.5	37.5 - 62.5
PCB-15	M/M+2	1.52	1.33-1.79	y	49.6	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	53.6	37.5 - 62.5
PCB-37	M/M+2	1.00	0.88-1.20	y	49.6	37.5 - 62.5
PCB-54	M/M+2	0.77	0.65-0.89	y	52.6	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	53.2	37.5 - 62.5
PCB-81	M/M+2	0.79	0.65-0.89	y	52.5	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	49.6	37.5 - 62.5
PCB-105	M+2/M+4	1.53	1.32-1.78	y	50.9	37.5 - 62.5
PCB-114	M+2/M+4	1.54	1.32-1.78	y	49.9	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	56.6	37.5 - 62.5
PCB-123	M+2/M+4	1.52	1.32-1.78	y	45.5	37.5 - 62.5
PCB-126	M+2/M+4	1.54	1.32-1.78	y	49.9	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	52.9	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	53.0	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	53.5	37.5 - 62.5
PCB-167	M+2/M+4	1.24	1.05-1.43	y	54.1	37.5 - 62.5
PCB-169	M+2/M+4	1.22	1.05-1.43	y	53.7	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	51.0	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	53.0	37.5 - 62.5
PCB-202	M+2/M+4	0.88	0.76-1.02	y	57.8	37.5 - 62.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	53.8	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	50.0	37.5 - 62.5
PCB-208	M+4/M+6	1.37	1.13-1.53	y	50.9	37.5 - 62.5
PCB-209	M+4/M+6	1.17	0.99-1.33	y	56.8	37.5 - 62.5

Analyst: [illegible] Date: 1/9/17

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1/6/17

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 06JAN17Z Sam:1 Analysis Date: 6-JAN-17 08:14:16

	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	3.08	2.66-3.60	y	109	50.0 - 145
13C-PCB-3	M/M+2	3.14	2.66-3.60	y	108	50.0 - 145
13C-PCB-4	M/M+2	1.58	1.33-1.79	y	104	50.0 - 145
13C-PCB-15	M/M+2	1.59	1.33-1.79	y	108	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	1.09	0.88-1.20	y	106	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	107	50.0 - 145
13C-PCB-77	M/M+2	0.78	0.65-0.89	y	109	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	108	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	1.60	1.32-1.78	y	107	50.0 - 145
13C-PCB-114	M+2/M+4	1.59	1.32-1.78	y	107	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	110	50.0 - 145
13C-PCB-123	M+2/M+4	1.57	1.32-1.78	y	110	50.0 - 145
13C-PCB-126	M+2/M+4	1.59	1.32-1.78	y	108	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	1.27	1.05-1.43	y	106	50.0 - 145
13C-PCB-157	M+2/M+4	1.25	1.05-1.43	y	106	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	109	50.0 - 145
13C-PCB-169	M+2/M+4	1.25	1.05-1.43	y	109	50.0 - 145
13C-PCB-188	M+2/M+4	1.04	0.89-1.21	y	109	50.0 - 145
13C-PCB-189	M+2/M+4	1.05	0.89-1.21	y	109	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	0.90	0.76-1.02	y	103	50.0 - 145
13C-PCB-206	M+2/M+4	0.78	0.65-0.89	y	111	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	106	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	95.0	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	98.8	65.0 - 135
13C-PCB-111	M+2/M+4	1.57	1.32-1.78	y	113	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	103	75.0 - 125

Analyst: [illegible] Date: 1/9/17

FAL ID: ST010617Z1 Filename: 06JAN17Z Sam:1 Acquired: 6-JAN-17 08:14:16 ICal: DAILY209FAL4-1-6-17
Client ID: CS351 ConCal: ST010617Z1 EndCal: ST010617Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	2.87e+07	3.13 y	14:32	0.90	52.3		2.50	-	-	*	
13C-PCB-1	6.09e+07	3.08 y	14:31	1.12	109		2.50				109
PCB-3	2.92e+07	3.13 y	16:58	0.89	53.6		2.50	-	-	*	
13C-PCB-3	6.15e+07	3.14 y	16:57	1.14	108		2.50				108
PCB-4	1.65e+07	1.51 y	18:13	1.09	47.5		2.50	-	-	*	
13C-PCB-4	3.18e+07	1.58 y	18:11	0.61	104		2.50				104
PCB-15	2.66e+07	1.52 y	23:46	0.99	49.6		2.50	-	-	*	
13C-PCB-15	5.42e+07	1.59 y	23:45	1.00	108		2.50				108
PCB-19	1.83e+07	1.04 y	22:07	0.94	53.6		2.50	-	-	*	
13C-PCB-19	3.65e+07	1.06 y	22:05	0.68	107		2.50				107
13C-PCB-9	5.00e+07	1.56 y	19:53	-	75.3		2.50				
PCB-37	2.25e+07	1.00 y	30:26	1.06	49.6		2.50	-	-	*	
13C-PCB-37	4.26e+07	1.09 y	30:25	1.09	106		2.50				106
PCB-54	2.16e+07	0.77 y	25:39	0.95	52.6		2.50	-	-	*	
13C-PCB-54	4.33e+07	0.79 y	25:38	1.09	107		2.50				107
PCB-104	2.02e+07	1.59 y	30:07	1.04	49.6		2.50	-	-	*	
13C-PCB-104	3.92e+07	1.59 y	30:04	0.94	112		2.50				112
13C-PCB-28	4.38e+07	1.07 y	26:43	1.19	98.8		2.50				98.8
13C-PCB-52	3.71e+07	0.78 y	29:00	-	76.1		2.50				
PCB-81	2.09e+07	0.79 y	36:13	1.05	52.5		2.50	-	-	*	
13C-PCB-81	3.78e+07	0.80 y	36:12	1.01	108		2.50				108
PCB-77	2.01e+07	0.79 y	36:46	0.97	53.2		2.50	-	-	*	
13C-PCB-77	3.87e+07	0.78 y	36:46	1.02	109		2.50				109
PCB-155	2.14e+07	1.27 y	34:17	0.97	52.9		2.50	-	-	*	
13C-PCB-155	4.20e+07	1.27 y	34:16	1.12	107		2.50				107
13C-PCB-111	4.46e+07	1.57 y	36:22	1.14	113		2.50				113
13C-PCB-101	3.49e+07	1.57 y	34:42	-	75.9		2.50				
PCB-123	1.73e+07	1.52 y	38:26	1.12	45.5		2.50	-	-	*	
13C-PCB-123	3.41e+07	1.57 y	38:24	1.00	110		2.50				110
PCB-118	1.88e+07	1.56 y	38:36	0.92	56.6		2.50	-	-	*	
13C-PCB-118	3.61e+07	1.61 y	38:34	1.05	110		2.50				110
PCB-114	1.74e+07	1.54 y	39:12	1.03	49.9		2.50	-	-	*	
13C-PCB-114	3.39e+07	1.59 y	39:12	1.02	107		2.50				107
PCB-105	1.73e+07	1.53 y	40:01	1.00	50.9		2.50	-	-	*	
13C-PCB-105	3.38e+07	1.60 y	39:60	1.02	107		2.50				107
PCB-126	1.61e+07	1.54 y	42:10	1.00	49.9		2.50	-	-	*	
13C-PCB-126	3.22e+07	1.59 y	42:08	0.95	108		2.50				108
PCB-167	1.86e+07	1.24 y	43:32	0.88	54.1		2.50	-	-	*	
13C-PCB-167	3.89e+07	1.28 y	43:30	1.14	109		2.50				109
PCB-156	1.82e+07	1.25 y	44:46	0.93	53.0		2.50	-	-	*	
13C-PCB-156	3.71e+07	1.27 y	44:44	1.12	106		2.50				106
PCB-157	1.79e+07	1.24 y	45:01	0.89	53.5		2.50	-	-	*	
13C-PCB-157	3.76e+07	1.25 y	44:59	1.14	106		2.50				106
PCB-169	1.72e+07	1.22 y	46:53	0.88	53.7		2.50	-	-	*	
13C-PCB-169	3.63e+07	1.25 y	46:53	1.07	109		2.50				109
PCB-188	2.19e+07	1.06 y	39:48	1.00	51.0		2.50	-	-	*	
13C-PCB-188	4.29e+07	1.04 y	39:47	1.26	109		2.50				109
PCB-189	1.93e+07	1.05 y	48:33	1.00	53.0		2.50	-	-	*	
13C-PCB-189	3.65e+07	1.05 y	48:33	1.07	109		2.50				109
PCB-202	1.80e+07	0.88 y	44:54	0.83	57.8		2.50	-	-	*	
13C-PCB-202	3.74e+07	0.90 y	44:54	1.12	107		2.50				107
13C-PCB-178	2.85e+07	1.06 y	42:25	0.89	103		2.50				103
13C-PCB-138	3.12e+07	1.26 y	41:38	-	75.2		2.50				

FAL ID: ST010617Z1 Filename: 06JAN17Z Sam:1 Acquired: 6-JAN-17 08:14:16 ICal: DAILY209FAL4-1-6-17 2 of 2
Client ID: CS351 ConCal: ST010617Z1 EndCal: ST010617Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	1.48e+07	0.88 y	50:16	0.99	53.8	2.50	-	-	*	
13C-PCB-205	2.77e+07	0.90 y	50:14	1.22	103	2.50				103
PCB-208	1.39e+07	1.37 y	49:17	0.89	50.9	2.50	-	-	*	
13C-PCB-208	3.07e+07	0.81 y	49:17	1.31	106	2.50				106
PCB-206	1.08e+07	1.35 y	51:30	0.92	50.0	2.50	-	-	*	
13C-PCB-206	2.36e+07	0.78 y	51:29	0.97	111	2.50				111
PCB-209	1.66e+07	1.17 y	52:45	0.96	56.8	2.50	-	-	*	
13C-PCB-209	3.05e+07	1.20 y	52:43	1.46	95.0	2.50				95.0
13C-PCB-194	2.20e+07	0.91 y	49:59	-	77.1	2.50				

Analyst: [illegible] Date: 1/9/17

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1/6/17

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 06JAN17Z Sam:14 Analysis Date: 6-JAN-17 20:52:29

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.09	2.66-3.60	y	51.6	37.5 - 62.5
PCB-3	M/M+2	3.05	2.66-3.60	y	52.9	37.5 - 62.5
PCB-4	M/M+2	1.40	1.33-1.79	y	50.4	37.5 - 62.5
PCB-15	M/M+2	1.50	1.33-1.79	y	52.2	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	53.0	37.5 - 62.5
PCB-37	M/M+2	1.04	0.88-1.20	y	49.4	37.5 - 62.5
PCB-54	M/M+2	0.77	0.65-0.89	y	51.5	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	52.1	37.5 - 62.5
PCB-81	M/M+2	0.79	0.65-0.89	y	50.3	37.5 - 62.5
PCB-104	M+2/M+4	1.58	1.32-1.78	y	49.6	37.5 - 62.5
PCB-105	M+2/M+4	1.58	1.32-1.78	y	50.1	37.5 - 62.5
PCB-114	M+2/M+4	1.55	1.32-1.78	y	48.4	37.5 - 62.5
PCB-118	M+2/M+4	1.58	1.32-1.78	y	57.0	37.5 - 62.5
PCB-123	M+2/M+4	1.56	1.32-1.78	y	46.5	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	51.3	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	53.1	37.5 - 62.5
PCB-156	M+2/M+4	1.24	1.05-1.43	y	51.4	37.5 - 62.5
PCB-157	M+2/M+4	1.29	1.05-1.43	y	51.5	37.5 - 62.5
PCB-167	M+2/M+4	1.24	1.05-1.43	y	54.0	37.5 - 62.5
PCB-169	M+2/M+4	1.25	1.05-1.43	y	53.0	37.5 - 62.5
PCB-188	M+2/M+4	1.04	0.89-1.21	y	50.1	37.5 - 62.5
PCB-189	M+2/M+4	1.03	0.89-1.21	y	51.7	37.5 - 62.5
PCB-202	M+2/M+4	0.89	0.76-1.02	y	57.8	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	51.4	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	1.35	1.13-1.53	y	50.6	37.5 - 62.5
PCB-209	M+4/M+6	1.16	0.99-1.33	y	55.9	37.5 - 62.5

Analyst: _____ Date: 1/9/17

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1/6/17

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 06JAN17Z Sam:14 Analysis Date: 6-JAN-17 20:52:29

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.17	2.66-3.60	y	120	50.0 - 145
13C-PCB-3	M/M+2	3.20	2.66-3.60	y	115	50.0 - 145
13C-PCB-4	M/M+2	1.57	1.33-1.79	y	111	50.0 - 145
13C-PCB-15	M/M+2	1.59	1.33-1.79	y	105	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	1.05	0.88-1.20	y	104	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	109	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	97.3	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	96.2	50.0 - 145
13C-PCB-104	M+2/M+4	1.57	1.32-1.78	y	119	50.0 - 145
13C-PCB-105	M+2/M+4	1.57	1.32-1.78	y	93.8	50.0 - 145
13C-PCB-114	M+2/M+4	1.59	1.32-1.78	y	96.7	50.0 - 145
13C-PCB-118	M+2/M+4	1.60	1.32-1.78	y	97.1	50.0 - 145
13C-PCB-123	M+2/M+4	1.60	1.32-1.78	y	97.1	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	89.4	50.0 - 145
13C-PCB-155	M+2/M+4	1.27	1.05-1.43	y	114	50.0 - 145
13C-PCB-156	M+2/M+4	1.25	1.05-1.43	y	98.8	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	101	50.0 - 145
13C-PCB-167	M+2/M+4	1.24	1.05-1.43	y	100	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	96.2	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	113	50.0 - 145
13C-PCB-189	M+2/M+4	1.05	0.89-1.21	y	104	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	113	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	105	50.0 - 145
13C-PCB-206	M+2/M+4	0.78	0.65-0.89	y	117	50.0 - 145
13C-PCB-208	M+2/M+4	0.79	0.65-0.89	y	120	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	110	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	103	65.0 - 135
13C-PCB-111	M+2/M+4	1.56	1.32-1.78	y	109	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	104	75.0 - 125

Analyst: _____ Date: 1/9/17

FAL ID: ST010617Z2 Filename: 06JAN17Z Sam:14 Acquired: 6-JAN-17 20:52:29 ICal: DAILY209FAL4-1-6-17
Client ID: CS352 ConCal: ST010617Z1 EndCal: ST010617Z2
Results: GC Column: DB1 Amount: 1.000

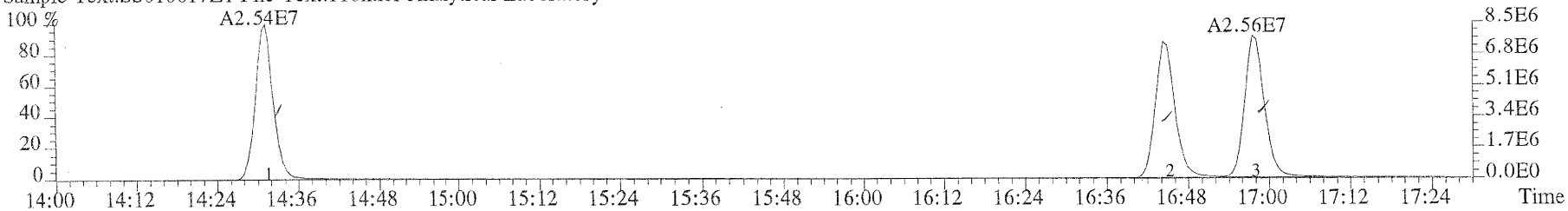
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.57e+07	3.09 y	14:31	0.90	51.6		2.50	-	-	*	
13C-PCB-1	7.68e+07	3.17 y	14:29	1.12	120		2.50				120
PCB-3	3.52e+07	3.05 y	16:57	0.89	52.9		2.50	-	-	*	
13C-PCB-3	7.50e+07	3.20 y	16:56	1.14	115		2.50				115
PCB-4	2.14e+07	1.40 y	18:11	1.09	50.4		2.50	-	-	*	
13C-PCB-4	3.88e+07	1.57 y	18:10	0.61	111		2.50				111
PCB-15	3.11e+07	1.50 y	23:44	0.99	52.2		2.50	-	-	*	
13C-PCB-15	6.02e+07	1.59 y	23:43	1.00	105		2.50				105
PCB-19	2.07e+07	1.04 y	22:04	0.94	53.0		2.50	-	-	*	
13C-PCB-19	4.18e+07	1.06 y	22:04	0.68	107		2.50				107
13C-PCB-9	5.72e+07	1.60 y	19:51	-	86.1		2.50				
PCB-37	2.55e+07	1.04 y	30:24	1.06	49.4		2.50	-	-	*	
13C-PCB-37	4.86e+07	1.05 y	30:23	1.09	104		2.50				104
PCB-54	2.47e+07	0.77 y	25:37	0.95	51.5		2.50	-	-	*	
13C-PCB-54	5.06e+07	0.79 y	25:36	1.09	109		2.50				109
PCB-104	2.47e+07	1.58 y	30:04	1.04	49.6		2.50	-	-	*	
13C-PCB-104	4.80e+07	1.57 y	30:02	0.94	119		2.50				119
13C-PCB-28	5.27e+07	1.05 y	26:41	1.19	103		2.50				103
13C-PCB-52	4.29e+07	0.78 y	28:58	-	87.8		2.50				
PCB-81	2.07e+07	0.79 y	36:11	1.05	50.3		2.50	-	-	*	
13C-PCB-81	3.91e+07	0.80 y	36:10	1.01	96.2		2.50				96.2
PCB-77	2.04e+07	0.79 y	36:44	0.97	52.1		2.50	-	-	*	
13C-PCB-77	4.01e+07	0.79 y	36:43	1.02	97.3		2.50				97.3
PCB-155	2.65e+07	1.28 y	34:15	0.97	53.1		2.50	-	-	*	
13C-PCB-155	5.17e+07	1.27 y	34:14	1.12	114		2.50				114
13C-PCB-111	5.01e+07	1.56 y	36:19	1.14	109		2.50				109
13C-PCB-101	4.03e+07	1.56 y	34:39	-	87.8		2.50				
PCB-123	1.83e+07	1.56 y	38:23	1.12	46.5		2.50	-	-	*	
13C-PCB-123	3.52e+07	1.60 y	38:21	1.00	97.1		2.50				97.1
PCB-118	1.96e+07	1.58 y	38:33	0.92	57.0		2.50	-	-	*	
13C-PCB-118	3.73e+07	1.60 y	38:31	1.05	97.1		2.50				97.1
PCB-114	1.79e+07	1.55 y	39:11	1.03	48.4		2.50	-	-	*	
13C-PCB-114	3.60e+07	1.59 y	39:09	1.02	96.7		2.50				96.7
PCB-105	1.75e+07	1.58 y	39:58	1.00	50.1		2.50	-	-	*	
13C-PCB-105	3.48e+07	1.57 y	39:57	1.02	93.8		2.50				93.8
PCB-126	1.59e+07	1.58 y	42:07	1.00	51.3		2.50	-	-	*	
13C-PCB-126	3.11e+07	1.60 y	42:05	0.95	89.4		2.50				89.4
PCB-167	1.98e+07	1.24 y	43:29	0.88	54.0		2.50	-	-	*	
13C-PCB-167	4.17e+07	1.24 y	43:28	1.14	100		2.50				100
PCB-156	1.92e+07	1.24 y	44:43	0.93	51.4		2.50	-	-	*	
13C-PCB-156	4.04e+07	1.25 y	44:42	1.12	98.8		2.50				98.8
PCB-157	1.92e+07	1.29 y	44:58	0.89	51.5		2.50	-	-	*	
13C-PCB-157	4.21e+07	1.27 y	44:56	1.14	101		2.50				101
PCB-169	1.75e+07	1.25 y	46:52	0.88	53.0		2.50	-	-	*	
13C-PCB-169	3.74e+07	1.27 y	46:50	1.07	96.2		2.50				96.2
PCB-188	2.61e+07	1.04 y	39:45	1.00	50.1		2.50	-	-	*	
13C-PCB-188	5.18e+07	1.07 y	39:44	1.26	113		2.50				113
PCB-189	2.09e+07	1.03 y	48:32	1.00	51.7		2.50	-	-	*	
13C-PCB-189	4.04e+07	1.05 y	48:30	1.07	104		2.50				104
PCB-202	2.23e+07	0.89 y	44:51	0.83	57.8		2.50	-	-	*	
13C-PCB-202	4.63e+07	0.91 y	44:51	1.12	113		2.50				113
13C-PCB-178	3.38e+07	1.08 y	42:22	0.89	104		2.50				104
13C-PCB-138	3.65e+07	1.25 y	41:36	-	88.1		2.50				

FAL ID: ST010617Z2 Filename: 06JAN17Z Sam:14 Acquired: 6-JAN-17 20:52:29 ICal: DAILY209FAL4-1-6-17 2 of 2
Client ID: CS352 ConCal: ST010617Z1 EndCal: ST010617Z2
Results: GC Column: DB1 Amount: 1.000

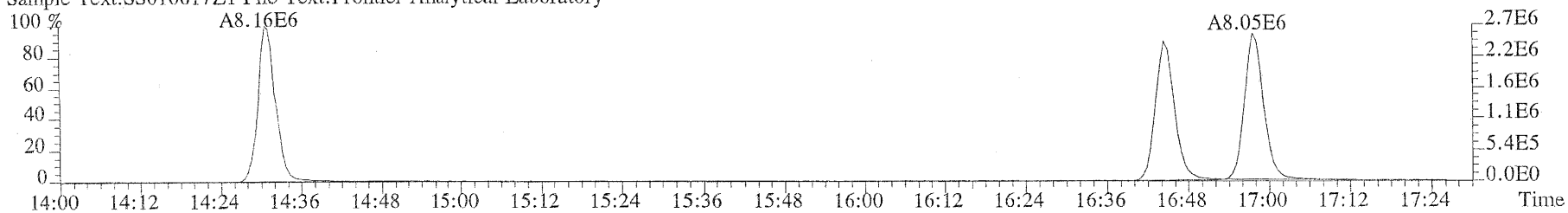
PCB-205	1.47e+07	0.90 y	50:14	0.99	51.4	2.50	-	-	*	
13C-PCB-205	2.87e+07	0.89 y	50:13	1.22	105	2.50				105
PCB-208	1.58e+07	1.35 y	49:15	0.89	50.6	2.50	-	-	*	
13C-PCB-208	3.50e+07	0.79 y	49:14	1.31	120	2.50				120
PCB-206	1.15e+07	1.35 y	51:29	0.92	49.5	2.50	-	-	*	
13C-PCB-206	2.53e+07	0.78 y	51:28	0.97	117	2.50				117
PCB-209	1.92e+07	1.16 y	52:43	0.96	55.9	2.50	-	-	*	
13C-PCB-209	3.59e+07	1.20 y	52:42	1.46	110	2.50				110
13C-PCB-194	2.23e+07	0.90 y	49:58	-	78.3	2.50				

Analyst: _____ Date: 1/9/17

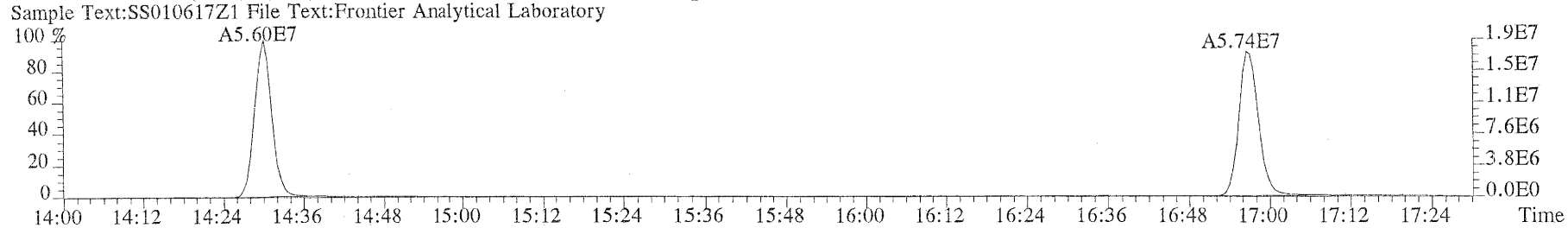
File:06JAN17Z #1-784 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



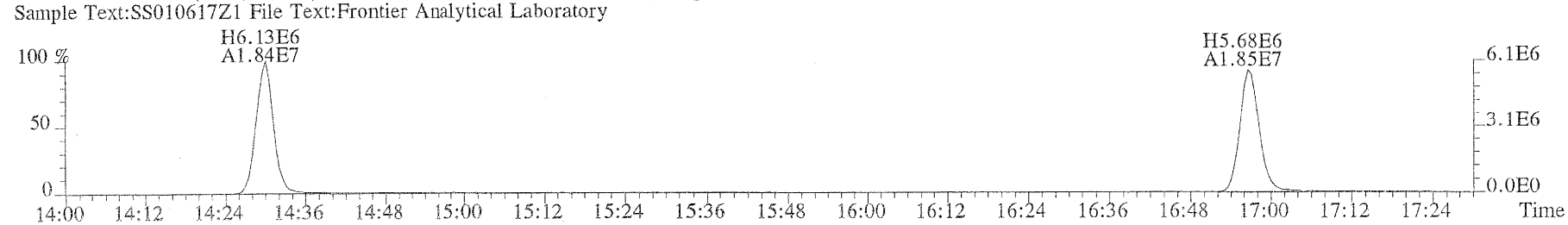
File:06JAN17Z #1-784 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



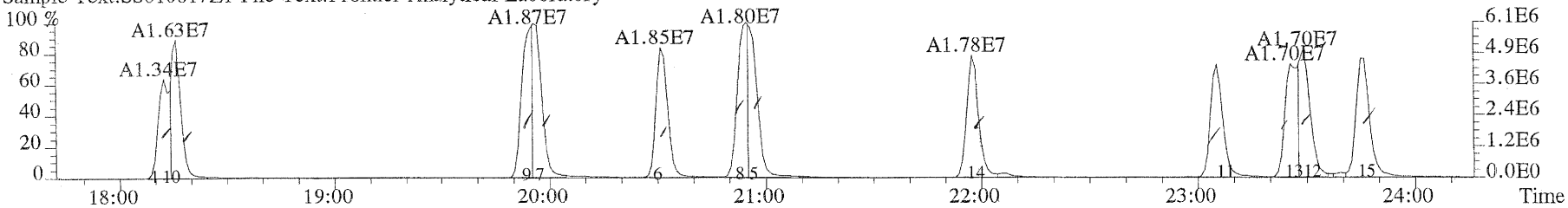
File:06JAN17Z #1-784 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



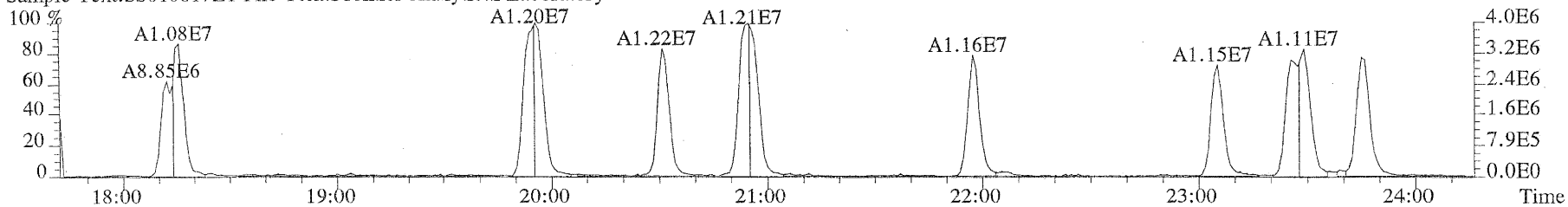
File:06JAN17Z #1-784 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



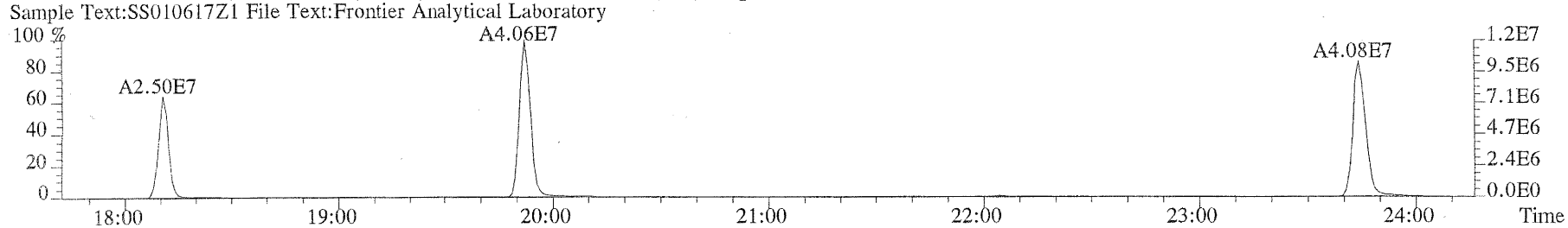
File:06JAN17Z #1-509 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



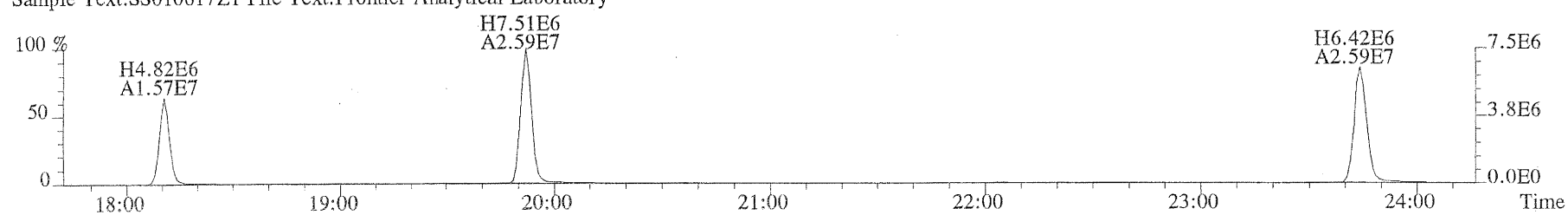
File:06JAN17Z #1-509 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



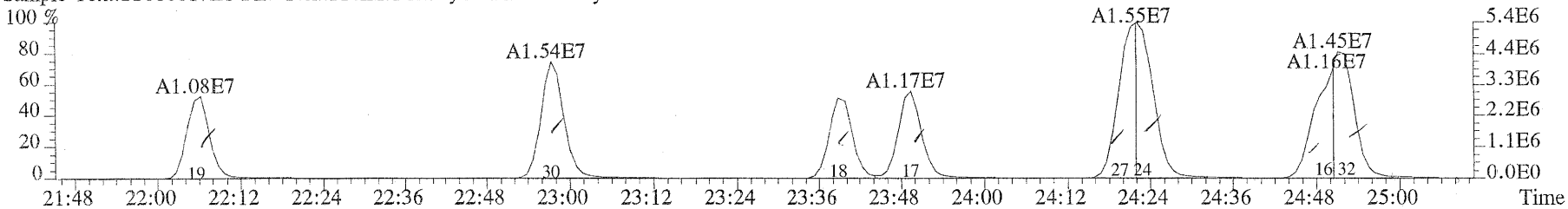
File:06JAN17Z #1-509 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



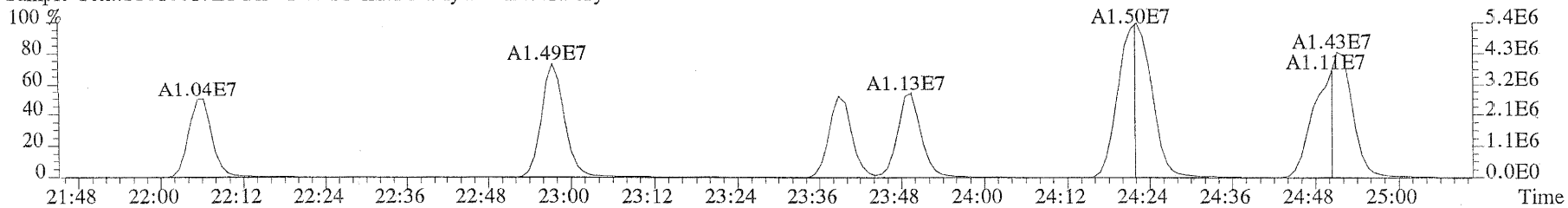
File:06JAN17Z #1-509 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



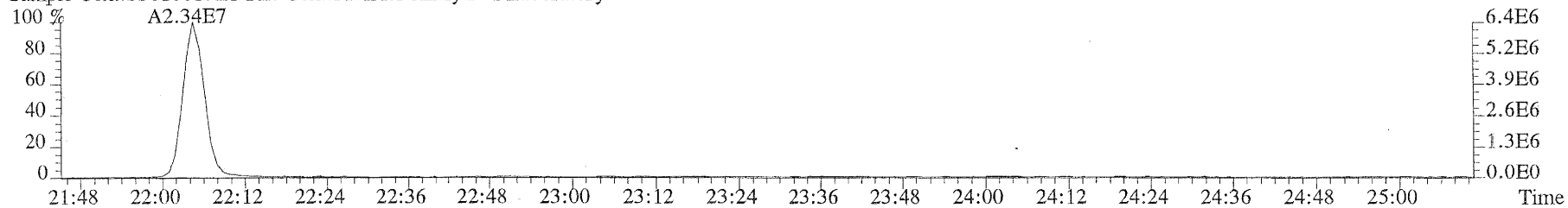
File:06JAN17Z #1-509 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



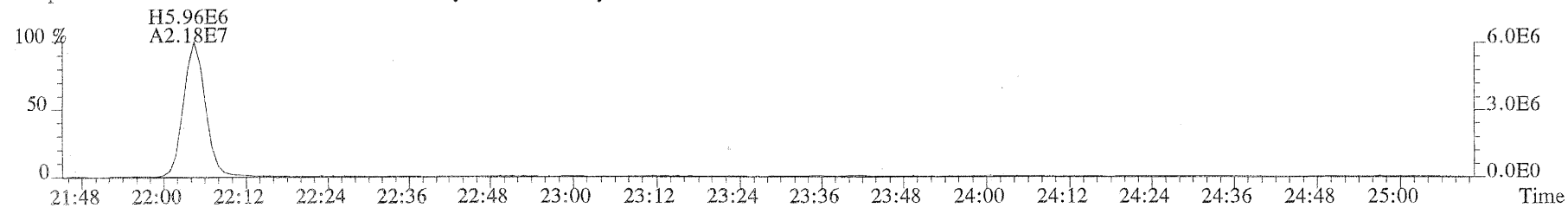
File:06JAN17Z #1-509 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



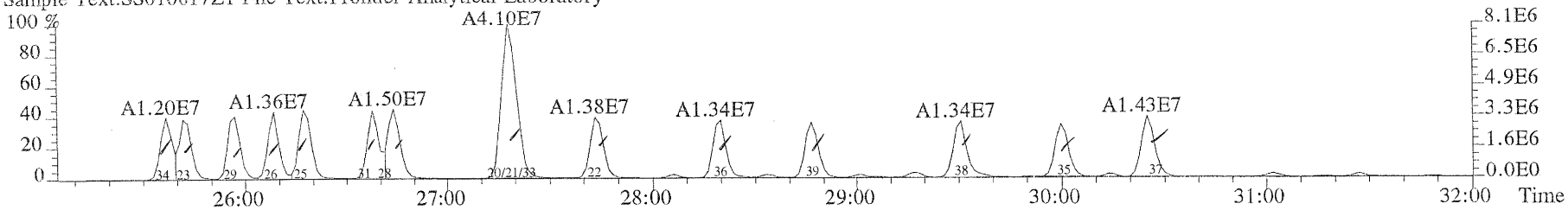
File:06JAN17Z #1-509 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



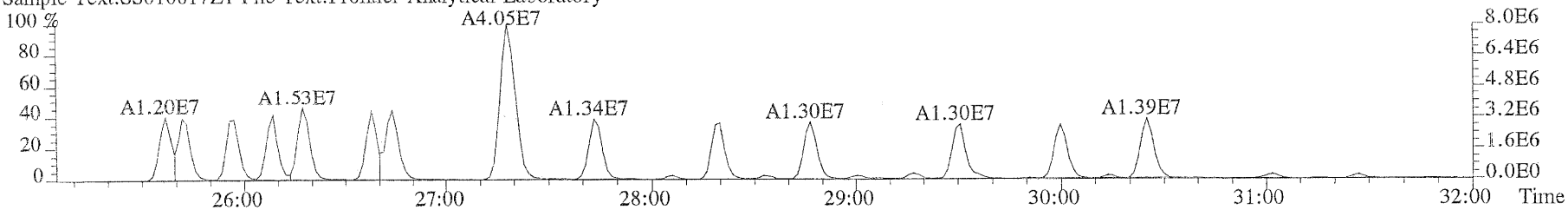
File:06JAN17Z #1-509 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



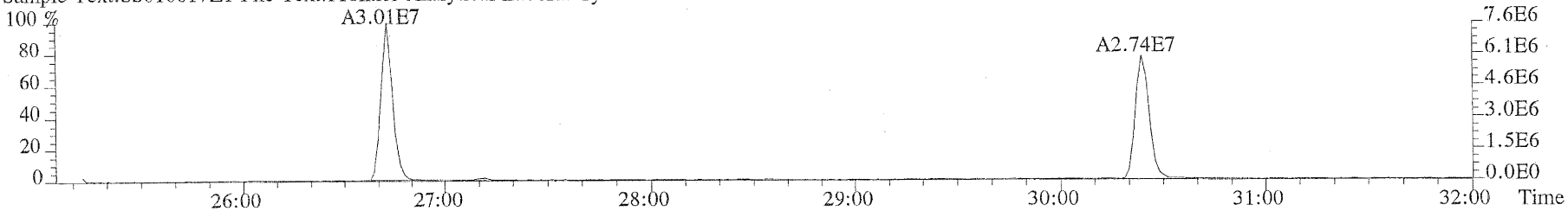
File:06JAN17Z #1-407 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



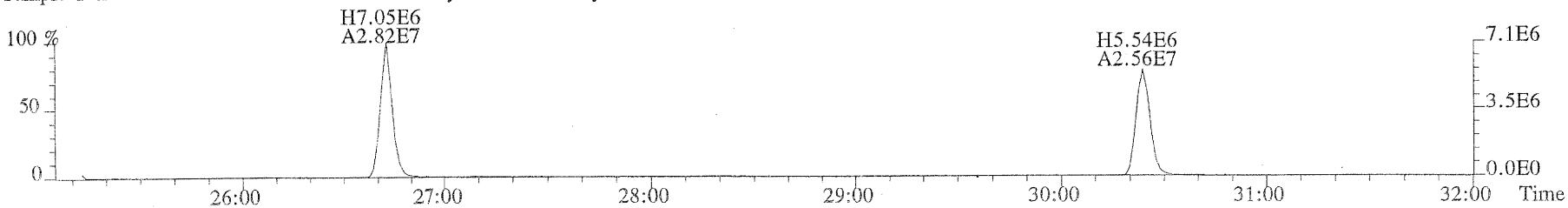
File:06JAN17Z #1-407 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



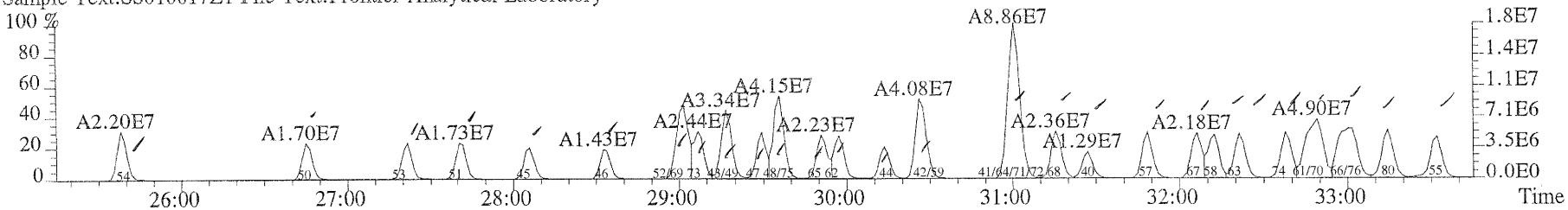
File:06JAN17Z #1-407 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



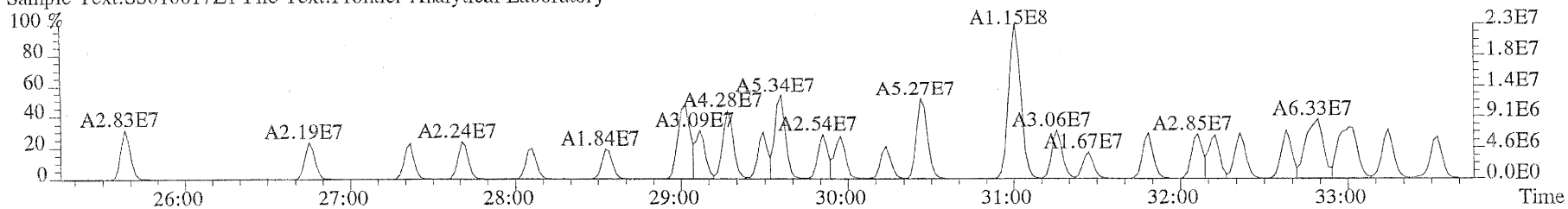
File:06JAN17Z #1-407 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



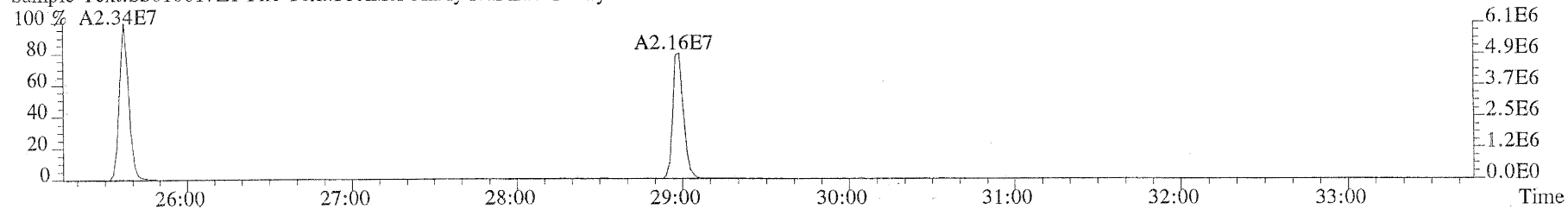
File:06JAN17Z #1-407 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



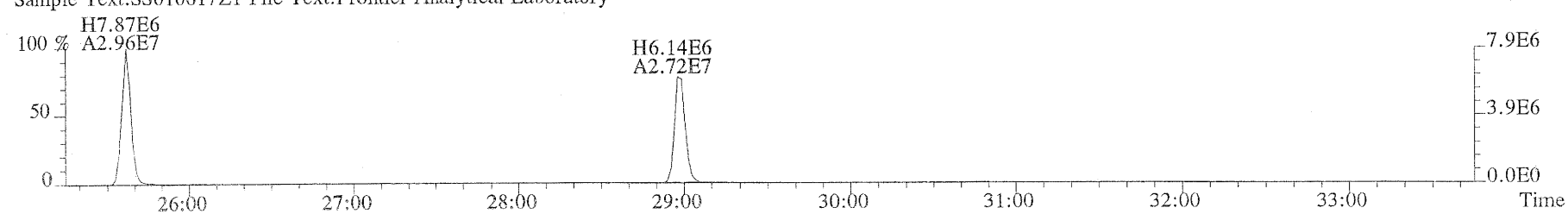
File:06JAN17Z #1-407 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



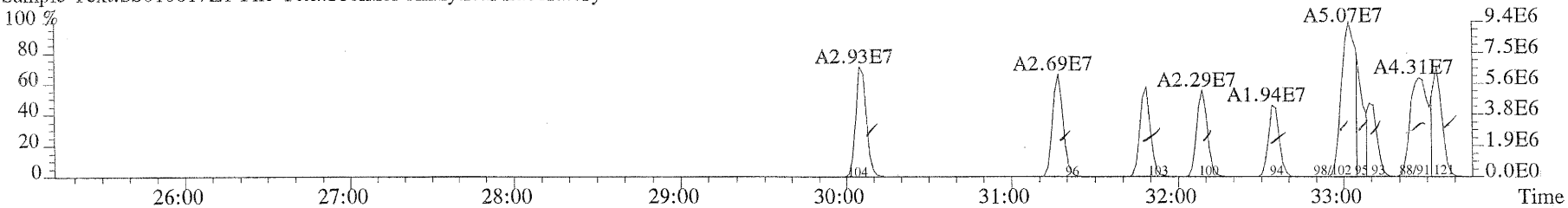
File:06JAN17Z #1-407 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



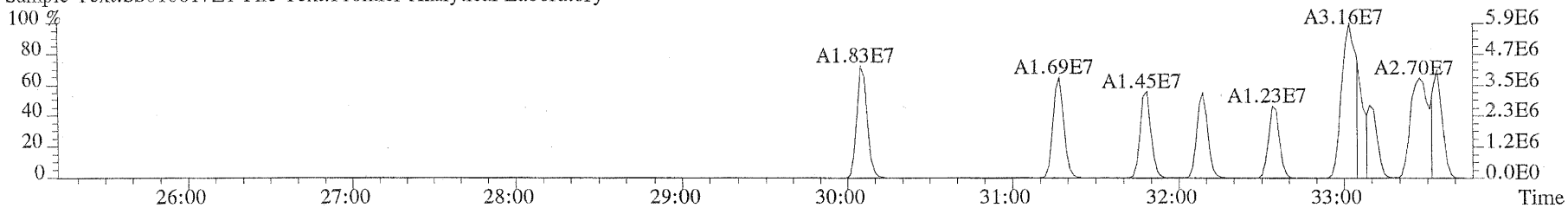
File:06JAN17Z #1-407 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



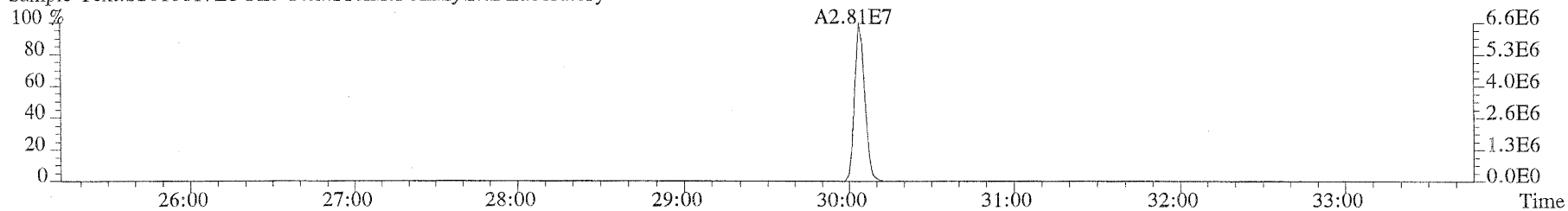
File:06JAN17Z #1-407 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



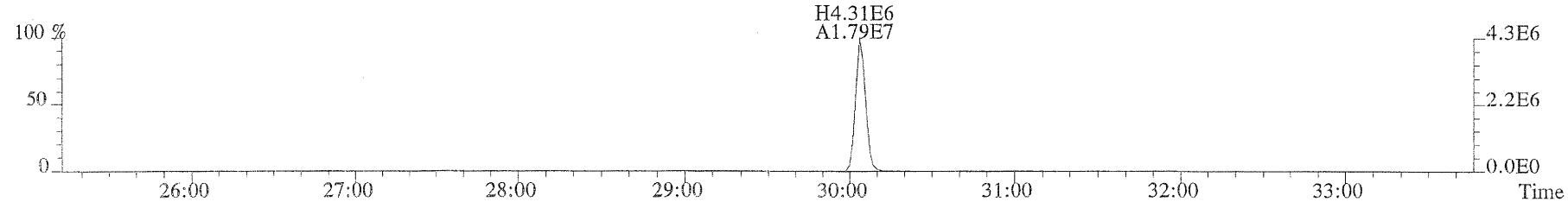
File:06JAN17Z #1-407 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



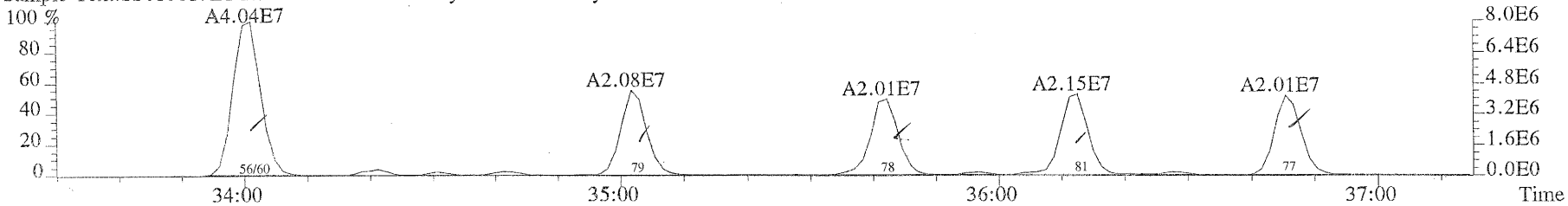
File:06JAN17Z #1-407 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



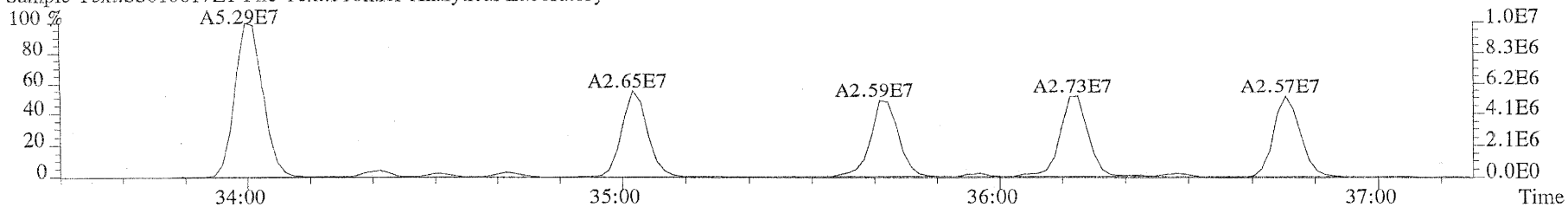
File:06JAN17Z #1-407 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



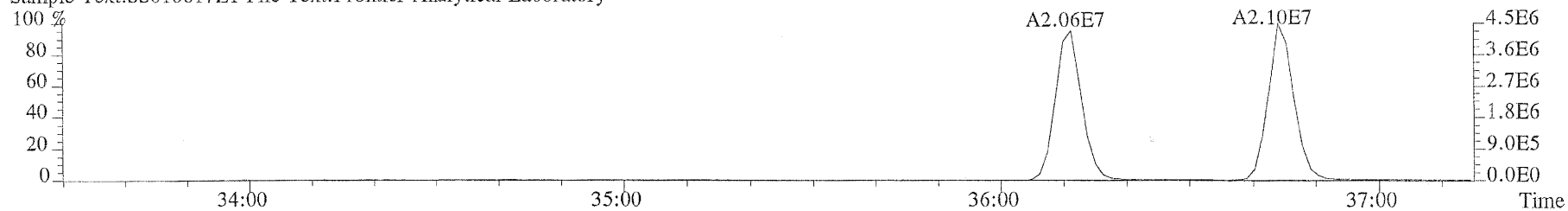
File:06JAN17Z #1-181 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



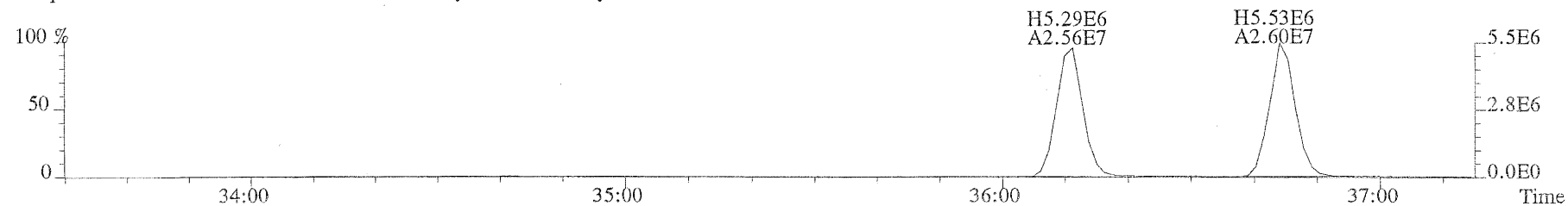
File:06JAN17Z #1-181 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



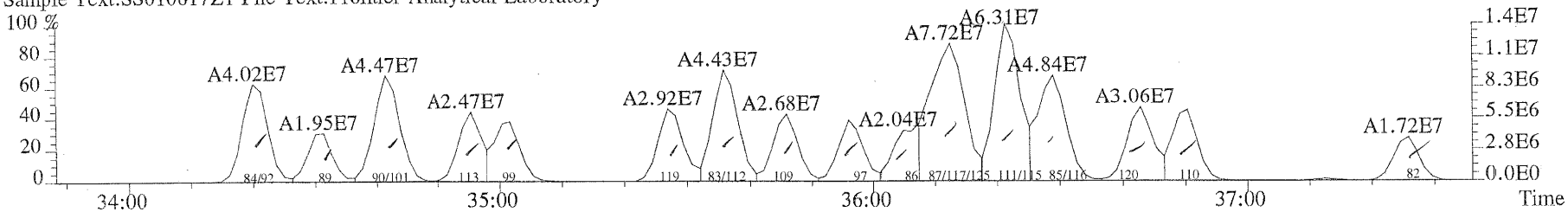
File:06JAN17Z #1-181 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



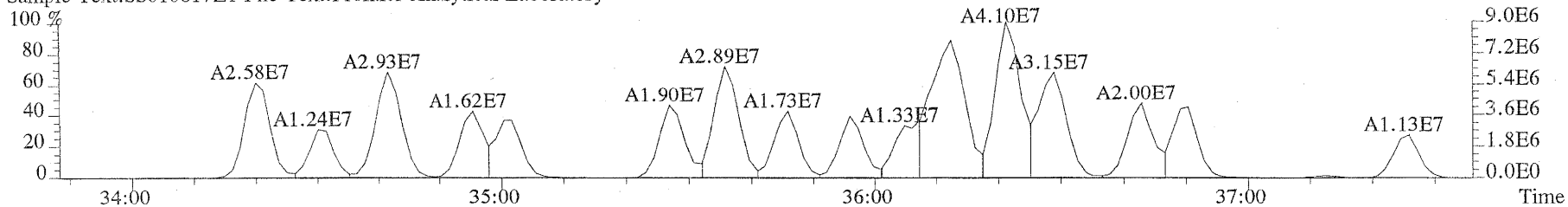
File:06JAN17Z #1-181 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



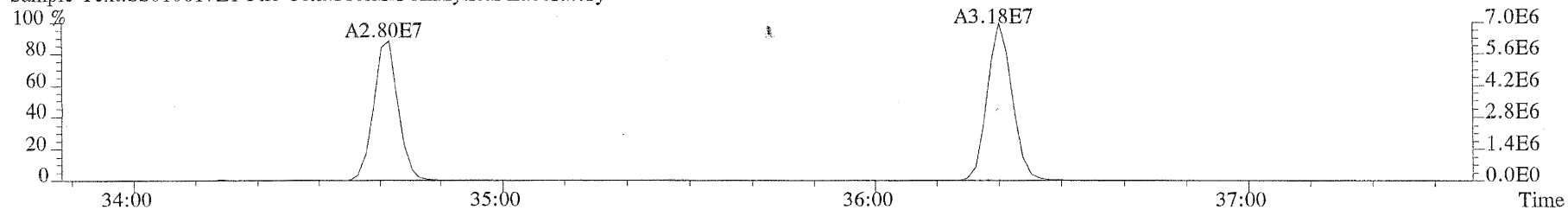
File:06JAN17Z #1-181 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



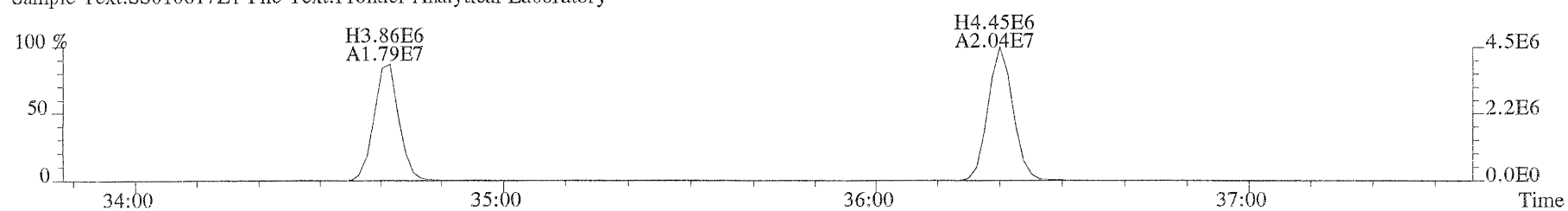
File:06JAN17Z #1-181 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



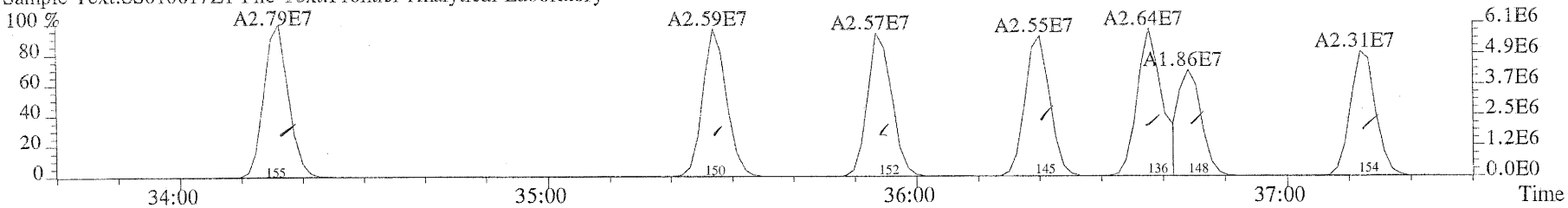
File:06JAN17Z #1-181 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



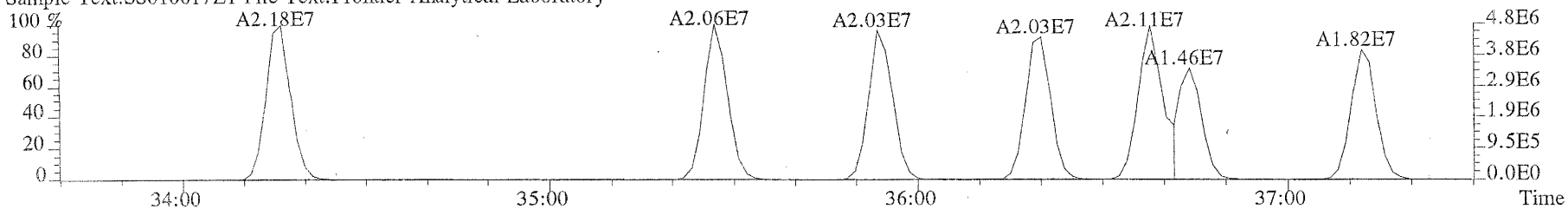
File:06JAN17Z #1-181 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



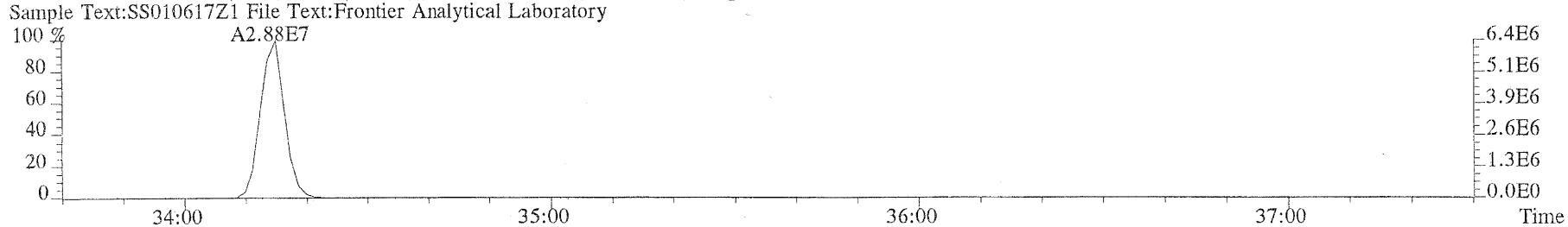
File:06JAN17Z #1-181 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



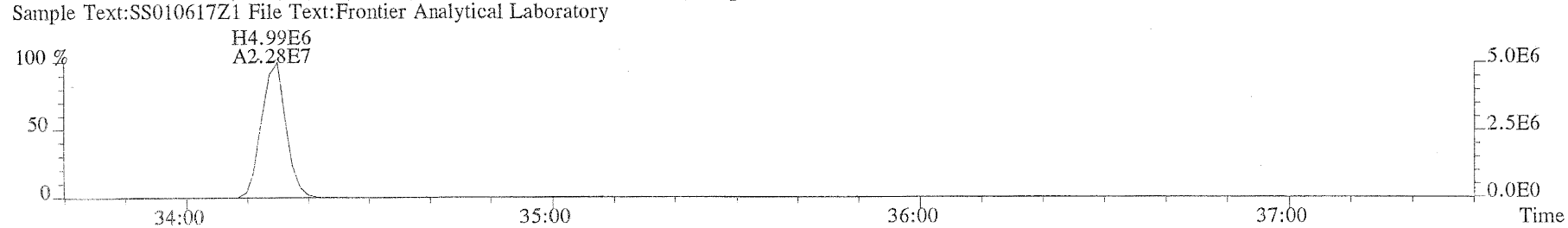
File:06JAN17Z #1-181 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



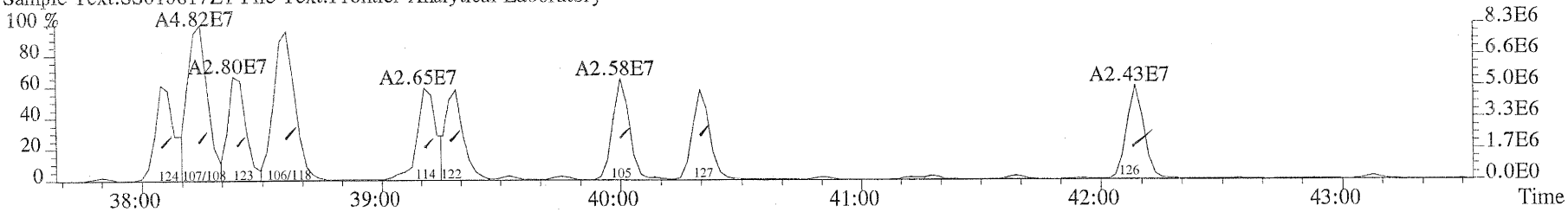
File:06JAN17Z #1-181 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



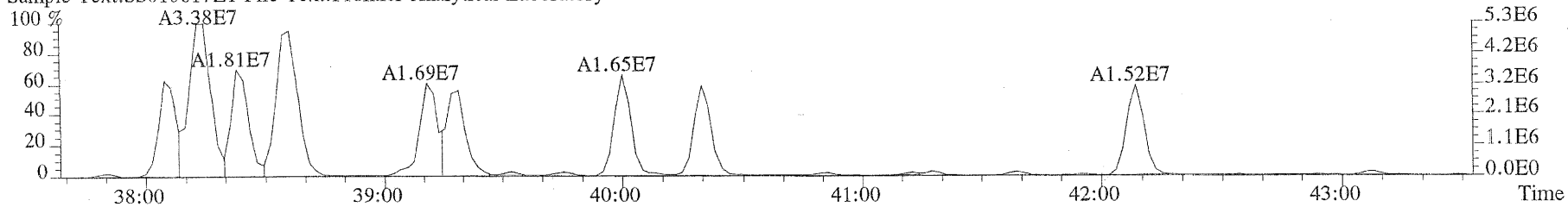
File:06JAN17Z #1-181 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



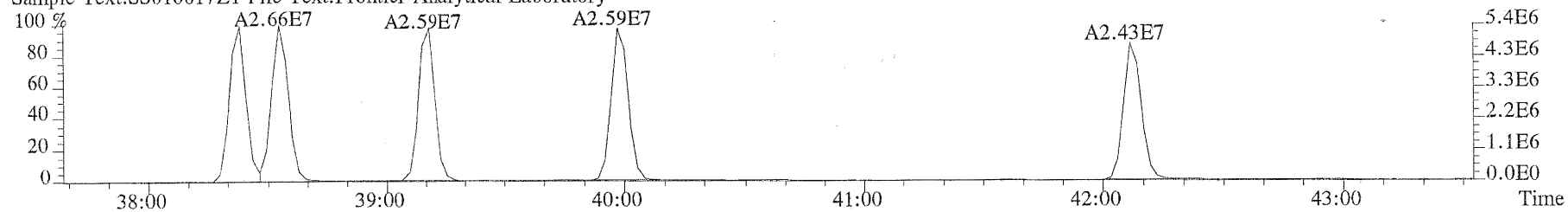
File:06JAN17Z #1-412 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



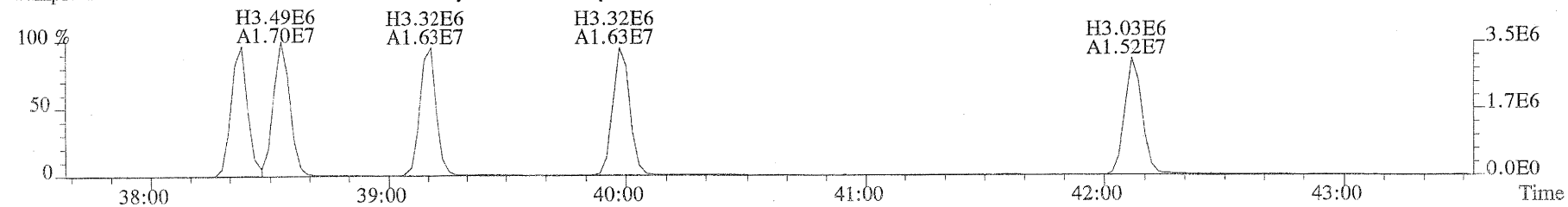
File:06JAN17Z #1-412 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



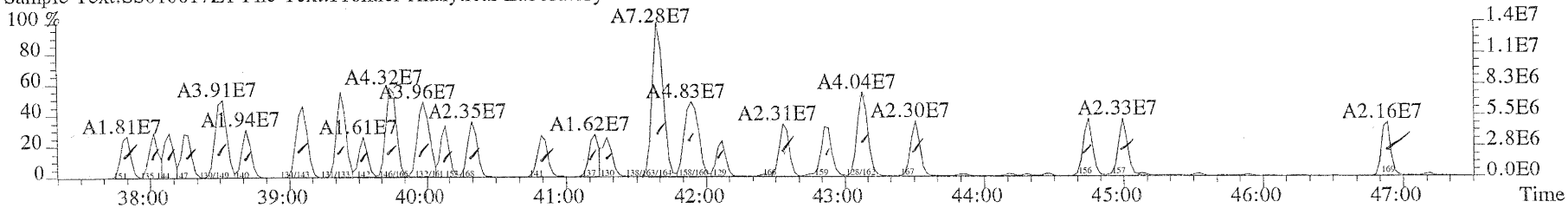
File:06JAN17Z #1-412 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



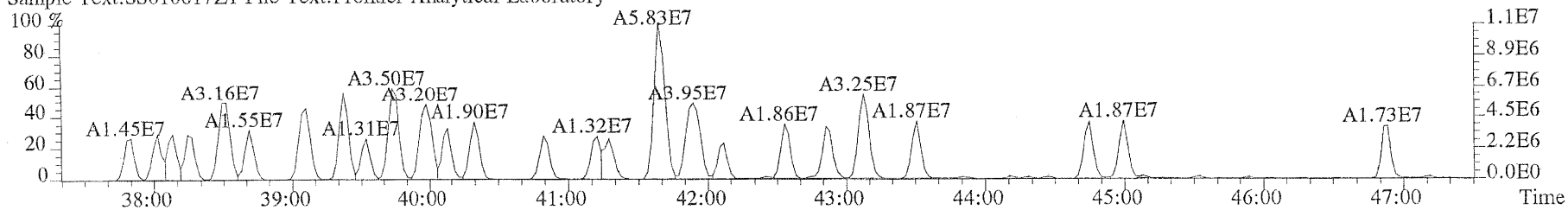
File:06JAN17Z #1-412 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



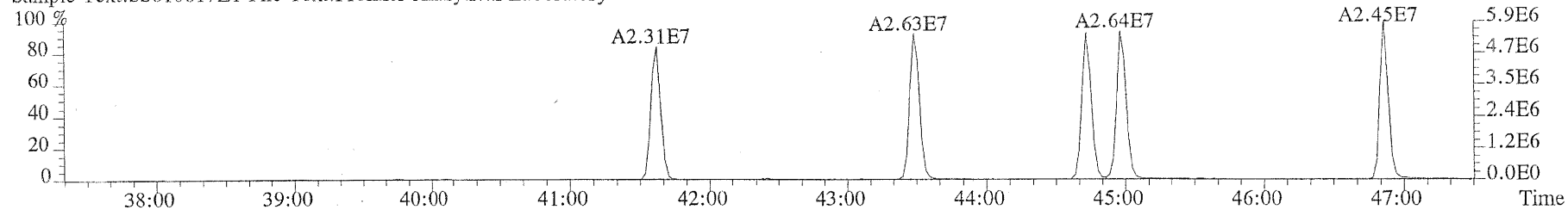
File:06JAN17Z #1-412 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



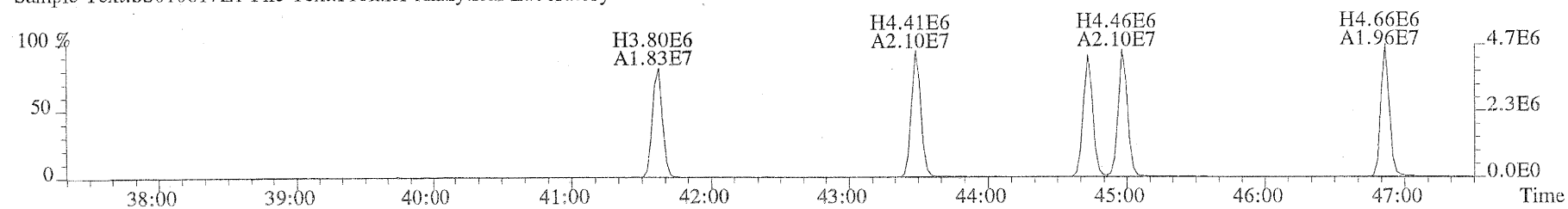
File:06JAN17Z #1-412 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



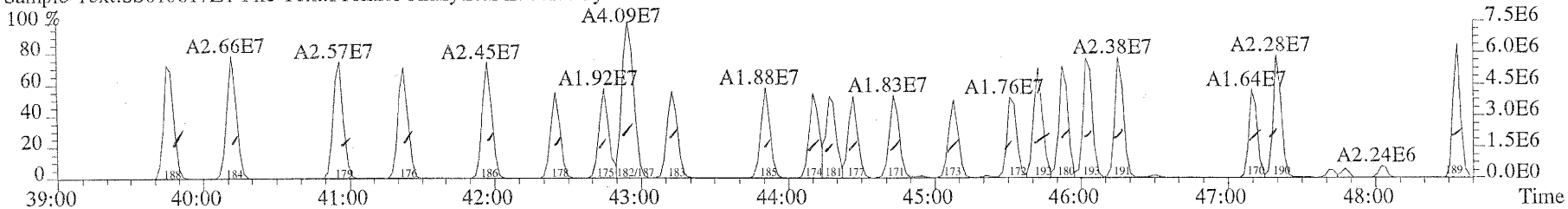
File:06JAN17Z #1-412 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



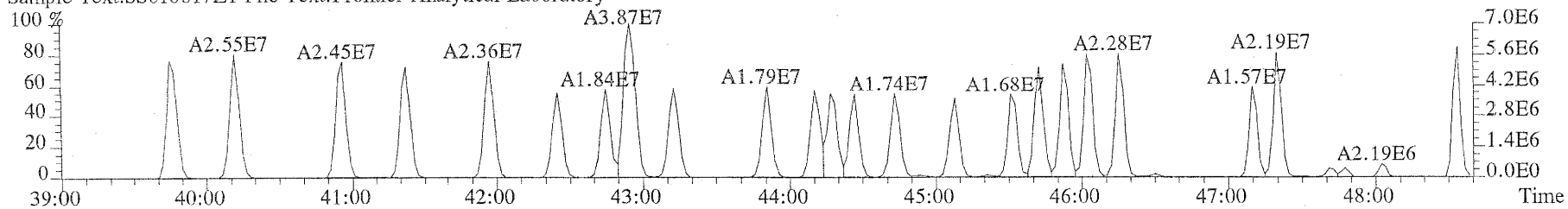
File:06JAN17Z #1-412 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



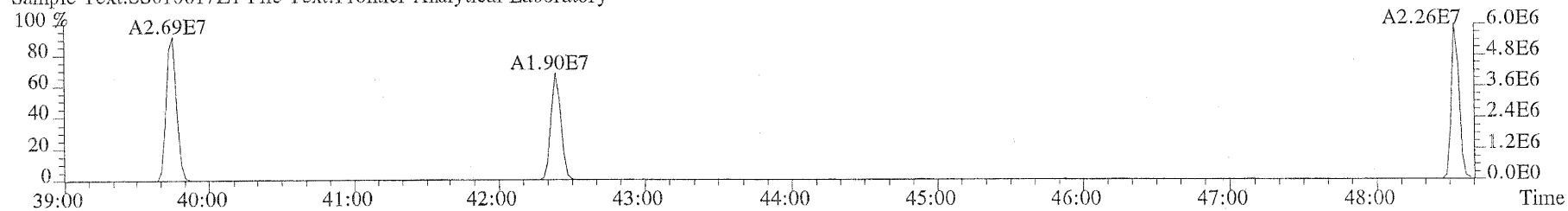
File:06JAN17Z #1-412 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



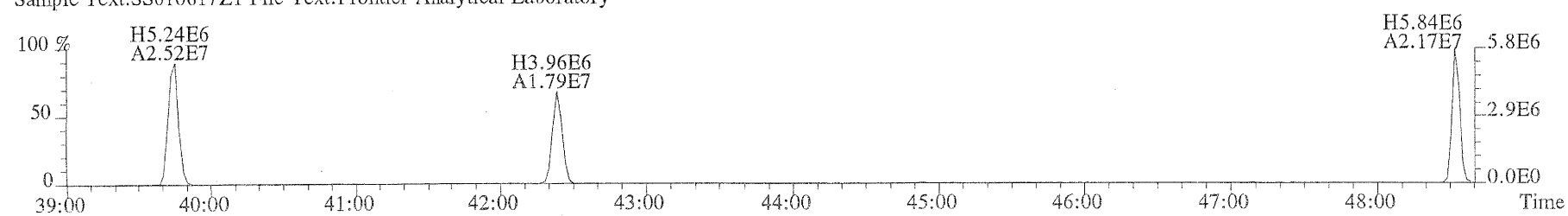
File:06JAN17Z #1-412 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



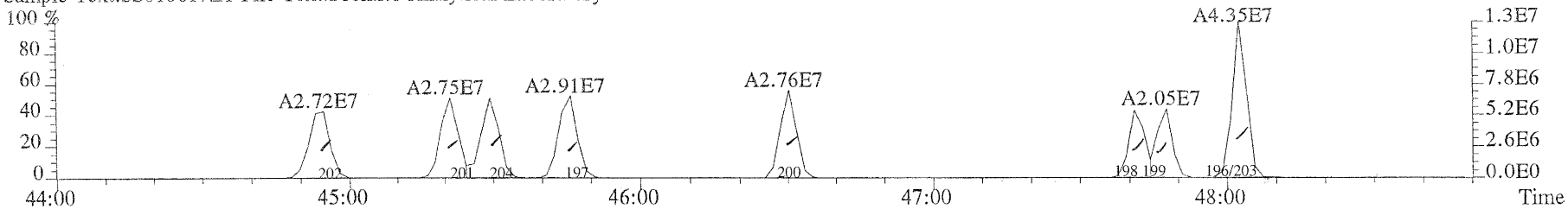
File:06JAN17Z #1-412 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



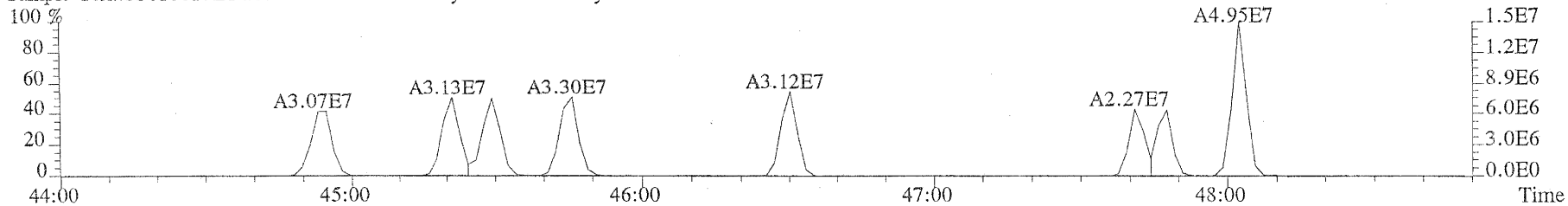
File:06JAN17Z #1-412 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



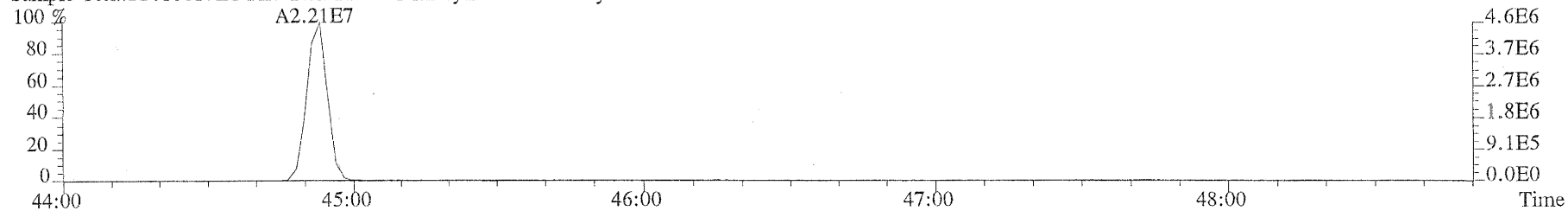
File:06JAN17Z #1-412 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



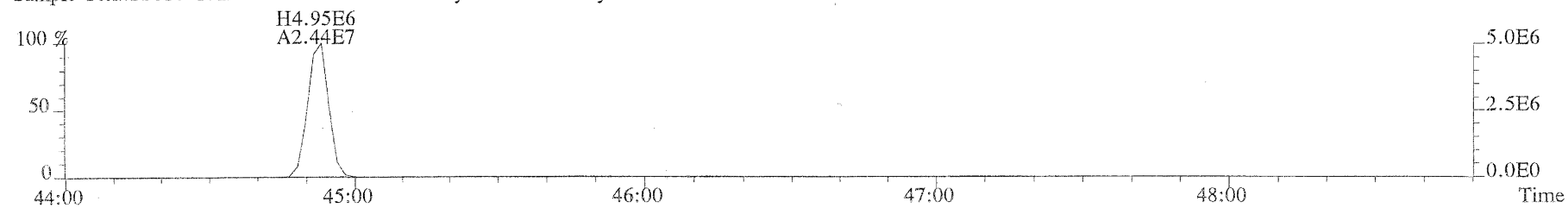
File:06JAN17Z #1-412 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



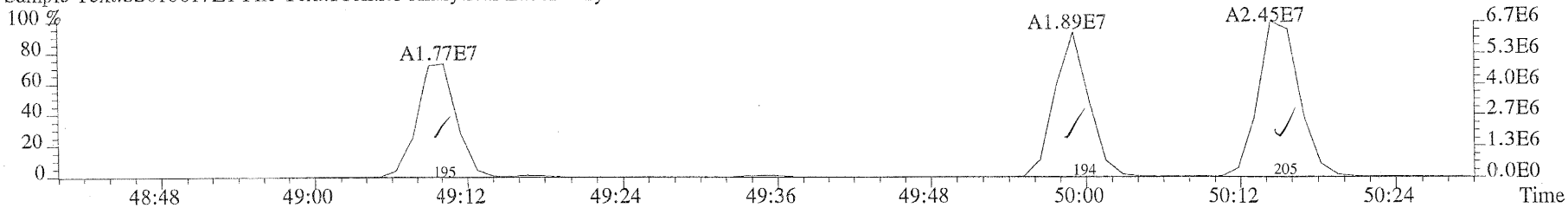
File:06JAN17Z #1-412 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



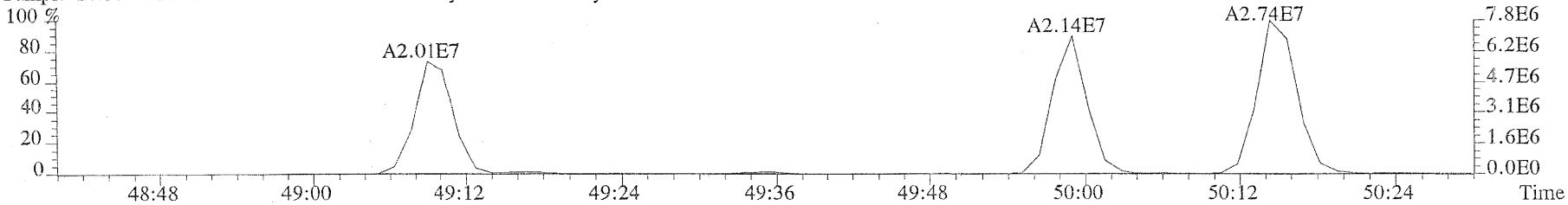
File:06JAN17Z #1-412 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



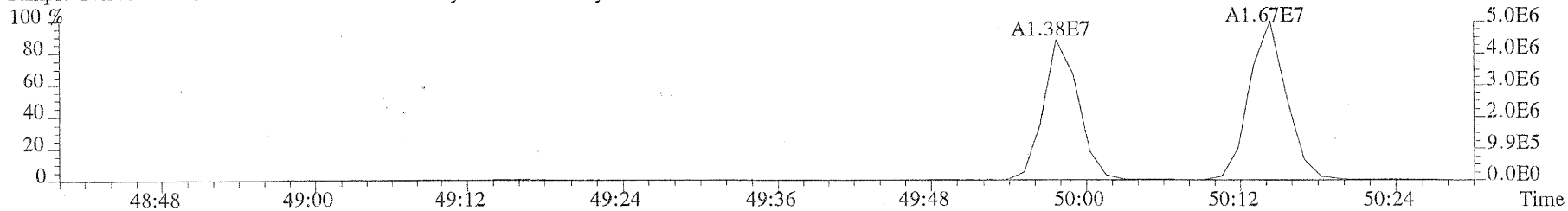
File:06JAN17Z #1-307 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



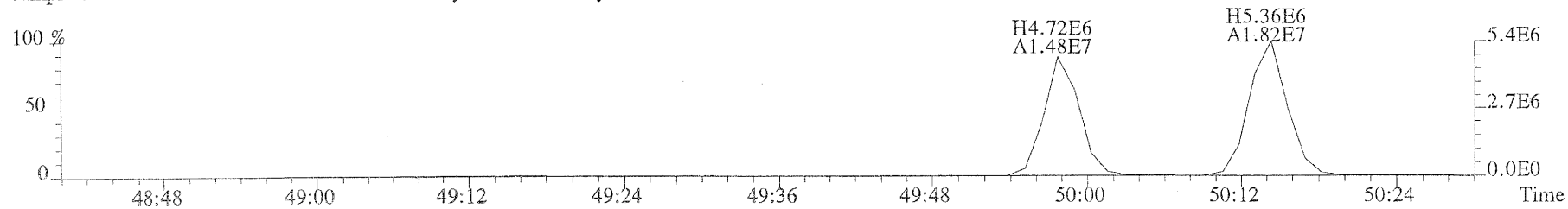
File:06JAN17Z #1-307 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



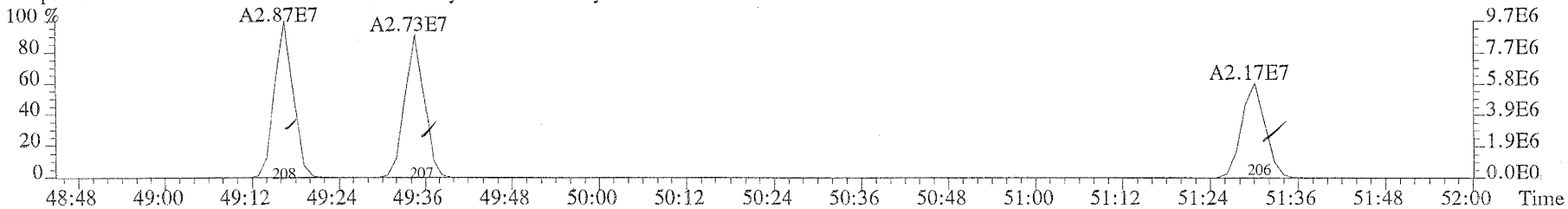
File:06JAN17Z #1-307 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



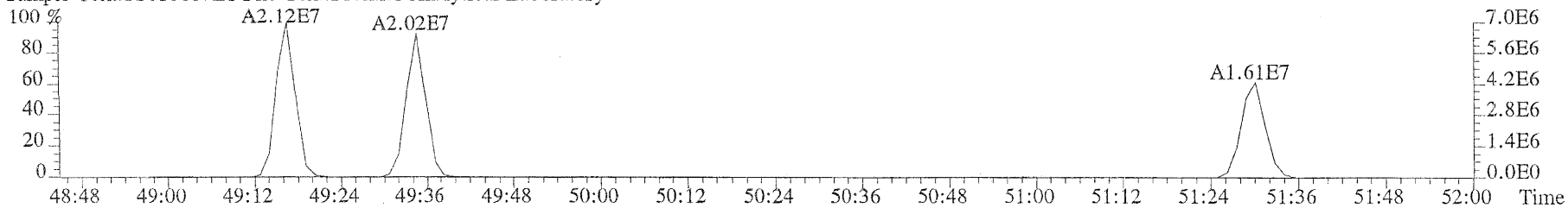
File:06JAN17Z #1-307 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



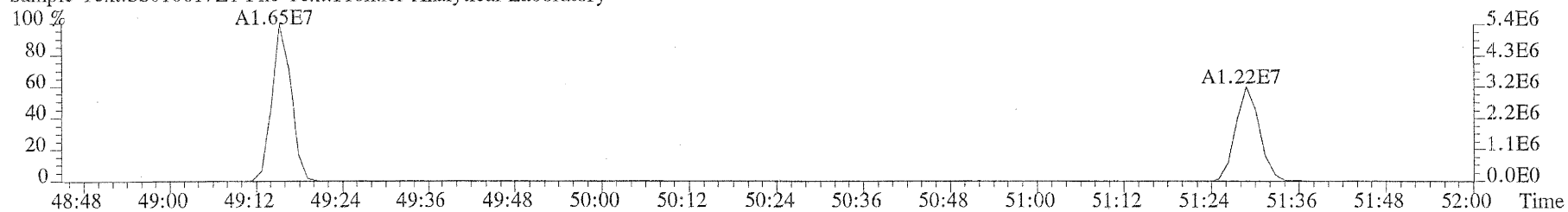
File:06JAN17Z #1-307 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



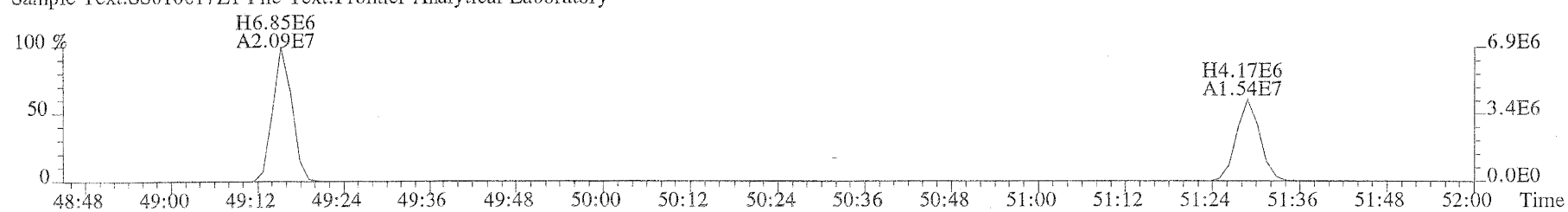
File:06JAN17Z #1-307 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



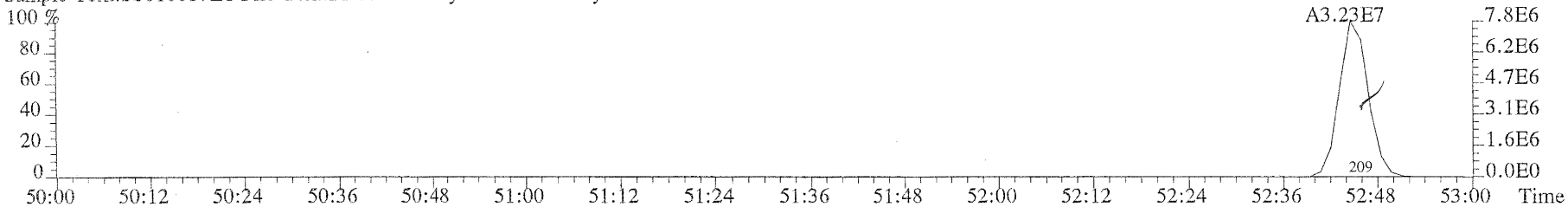
File:06JAN17Z #1-307 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



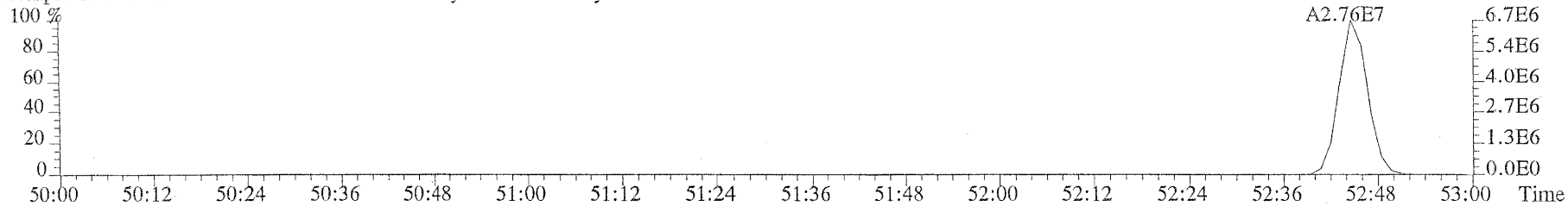
File:06JAN17Z #1-307 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



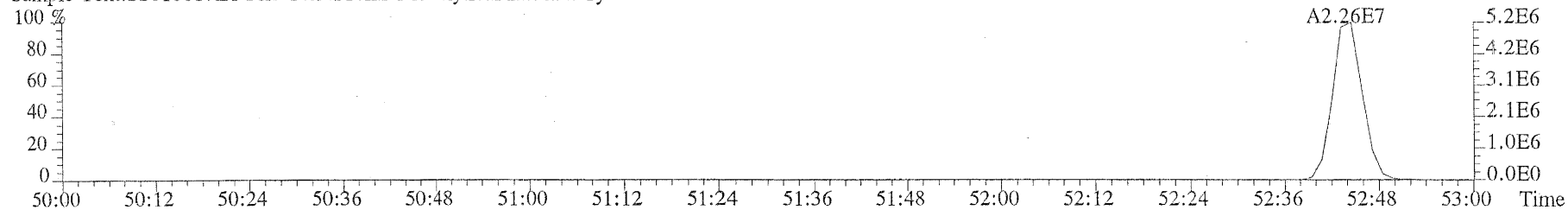
File:06JAN17Z #1-307 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



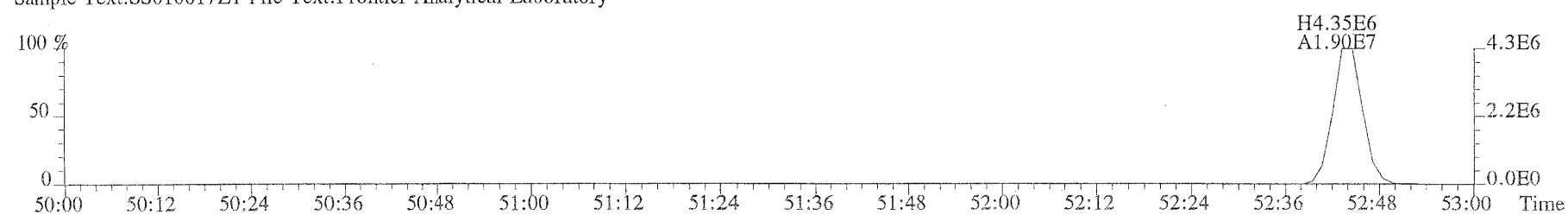
File:06JAN17Z #1-307 Acq: 6-JAN-2017 09:12:35 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-307 Acq: 6-JAN-2017 09:12:35 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:SS010617Z1 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-307 Acq: 6-JAN-2017 09:12:35 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:SS010617Z1 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: 06JAN17Z Sam:14 Analysis Date: 6-JAN-17 20:52:29

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.09	2.66-3.60	y	44.3	37.5 - 62.5
PCB-3	M/M+2	3.05	2.66-3.60	y	44.8	37.5 - 62.5
PCB-4	M/M+2	1.40	1.33-1.79	y	48.5	37.5 - 62.5
PCB-15	M/M+2	1.50	1.33-1.79	y	47.4	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	42.7	37.5 - 62.5
PCB-37	M/M+2	1.04	0.88-1.20	y	46.0	37.5 - 62.5
PCB-54	M/M+2	0.77	0.65-0.89	y	46.5	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	46.1	37.5 - 62.5
PCB-81	M/M+2	0.79	0.65-0.89	y	46.3	37.5 - 62.5
PCB-104	M+2/M+4	1.58	1.32-1.78	y	45.0	37.5 - 62.5
PCB-105	M+2/M+4	1.58	1.32-1.78	y	46.6	37.5 - 62.5
PCB-114	M+2/M+4	1.55	1.32-1.78	y	45.9	37.5 - 62.5
PCB-118	M+2/M+4	1.58	1.32-1.78	y	49.3	37.5 - 62.5
PCB-123	M+2/M+4	1.56	1.32-1.78	y	49.4	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	48.0	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	46.2	37.5 - 62.5
PCB-156	M+2/M+4	1.24	1.05-1.43	y	47.1	37.5 - 62.5
PCB-157	M+2/M+4	1.29	1.05-1.43	y	47.5	37.5 - 62.5
PCB-167	M+2/M+4	1.24	1.05-1.43	y	48.6	37.5 - 62.5
PCB-169	M+2/M+4	1.25	1.05-1.43	y	46.8	37.5 - 62.5
PCB-188	M+2/M+4	1.04	0.89-1.21	y	46.0	37.5 - 62.5
PCB-189	M+2/M+4	1.03	0.89-1.21	y	45.4	37.5 - 62.5
PCB-202	M+2/M+4	0.89	0.76-1.02	y	45.5	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	50.2	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	48.3	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	48.3	37.5 - 62.5
PCB-209	M+4/M+6	1.16	0.99-1.33	y	48.6	37.5 - 62.5

Analyst: _____ Date: 1/9/17

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: 06JAN17Z Sam:14 Analysis Date: 6-JAN-17 20:52:29

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.17	2.66-3.60	y	118	50.0 - 145
13C-PCB-3	M/M+2	3.20	2.66-3.60	y	118	50.0 - 145
13C-PCB-4	M/M+2	1.57	1.33-1.79	y	100	50.0 - 145
13C-PCB-15	M/M+2	1.59	1.33-1.79	y	103	50.0 - 145
13C-PCB-19	M/M+2	1.06	0.88-1.20	y	119	50.0 - 145
13C-PCB-37	M/M+2	1.05	0.88-1.20	y	82.5	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	94.3	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	78.3	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	76.2	50.0 - 145
13C-PCB-104	M+2/M+4	1.57	1.32-1.78	y	123	50.0 - 145
13C-PCB-105	M+2/M+4	1.57	1.32-1.78	y	77.1	50.0 - 145
13C-PCB-114	M+2/M+4	1.59	1.32-1.78	y	79.9	50.0 - 145
13C-PCB-118	M+2/M+4	1.60	1.32-1.78	y	77.9	50.0 - 145
13C-PCB-123	M+2/M+4	1.60	1.32-1.78	y	80.4	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	72.7	50.0 - 145
13C-PCB-155	M+2/M+4	1.27	1.05-1.43	y	118	50.0 - 145
13C-PCB-156	M+2/M+4	1.25	1.05-1.43	y	94.0	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	94.4	50.0 - 145
13C-PCB-167	M+2/M+4	1.24	1.05-1.43	y	92.2	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	92.6	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	116	50.0 - 145
13C-PCB-189	M+2/M+4	1.05	0.89-1.21	y	114	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	145	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	93.3	50.0 - 145
13C-PCB-206	M+2/M+4	0.78	0.65-0.89	y	112	50.0 - 145
13C-PCB-208	M+2/M+4	0.79	0.65-0.89	y	120	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	120	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	83.0	65.0 - 135
13C-PCB-111	M+2/M+4	1.56	1.32-1.78	y	99.2	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	120	75.0 - 125

Analyst: _____ Date: 1/9/17

FAL ID: ST010617Z2 Filename: 06JAN17Z Sam:14 Acquired: 6-JAN-17 20:52:29 ICal: 1668FAL4-8-11-16
Client ID: CS352 ConCal: ST010617Z1 EndCal: ST010617Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.57e+07	3.09 y	14:31	1.05	44.3		2.50	-	-	*	-
13C-PCB-1	7.68e+07	3.17 y	14:29	1.14	118		2.50				118
PCB-3	3.52e+07	3.05 y	16:57	1.05	44.8		2.50	-	-	*	-
13C-PCB-3	7.50e+07	3.20 y	16:56	1.11	118		2.50				118
PCB-4	2.14e+07	1.40 y	18:11	1.14	48.5		2.50	-	-	*	-
13C-PCB-4	3.88e+07	1.57 y	18:10	0.68	100		2.50				100
PCB-15	3.11e+07	1.50 y	23:44	1.09	47.4		2.50	-	-	*	-
13C-PCB-15	6.02e+07	1.59 y	23:43	1.02	103		2.50				103
PCB-19	2.07e+07	1.04 y	22:04	1.16	42.7		2.50	-	-	*	-
13C-PCB-19	4.18e+07	1.06 y	22:04	0.61	119		2.50				119
13C-PCB-9	5.72e+07	1.60 y	19:51	-	41.9		2.50				
PCB-37	2.55e+07	1.04 y	30:24	1.14	46.0		2.50	-	-	*	-
13C-PCB-37	4.86e+07	1.05 y	30:23	1.38	82.5		2.50				82.5
PCB-54	2.47e+07	0.77 y	25:37	1.05	46.5		2.50	-	-	*	-
13C-PCB-54	5.06e+07	0.79 y	25:36	1.25	94.3		2.50				94.3
PCB-104	2.47e+07	1.58 y	30:04	1.14	45.0		2.50	-	-	*	-
13C-PCB-104	4.80e+07	1.57 y	30:02	0.91	123		2.50				123
13C-PCB-28	5.27e+07	1.05 y	26:41	1.48	83.0		2.50				83.0
13C-PCB-52	4.29e+07	0.78 y	28:58	-	51.4		2.50				
PCB-81	2.07e+07	0.79 y	36:11	1.14	46.3		2.50	-	-	*	-
13C-PCB-81	3.91e+07	0.80 y	36:10	1.27	76.2		2.50				76.2
PCB-77	2.04e+07	0.79 y	36:44	1.10	46.1		2.50	-	-	*	-
13C-PCB-77	4.01e+07	0.79 y	36:43	1.27	78.3		2.50				78.3
PCB-155	2.65e+07	1.28 y	34:15	1.11	46.2		2.50	-	-	*	-
13C-PCB-155	5.17e+07	1.27 y	34:14	1.09	118		2.50				118
13C-PCB-111	5.01e+07	1.56 y	36:19	1.25	99.2		2.50				99.2
13C-PCB-101	4.03e+07	1.56 y	34:39	-	55.3		2.50				
PCB-123	1.83e+07	1.56 y	38:23	1.05	49.4		2.50	-	-	*	-
13C-PCB-123	3.52e+07	1.60 y	38:21	1.20	80.4		2.50				80.4
PCB-118	1.96e+07	1.58 y	38:33	1.07	49.3		2.50	-	-	*	-
13C-PCB-118	3.73e+07	1.60 y	38:31	1.31	77.9		2.50				77.9
PCB-114	1.79e+07	1.55 y	39:11	1.08	45.9		2.50	-	-	*	-
13C-PCB-114	3.60e+07	1.59 y	39:09	1.23	79.9		2.50				79.9
PCB-105	1.75e+07	1.58 y	39:58	1.08	46.6		2.50	-	-	*	-
13C-PCB-105	3.48e+07	1.57 y	39:57	1.24	77.1		2.50				77.1
PCB-126	1.59e+07	1.58 y	42:07	1.07	48.0		2.50	-	-	*	-
13C-PCB-126	3.11e+07	1.60 y	42:05	1.17	72.7		2.50				72.7
PCB-167	1.98e+07	1.24 y	43:29	0.98	48.6		2.50	-	-	*	-
13C-PCB-167	4.17e+07	1.24 y	43:28	1.24	92.2		2.50				92.2
PCB-156	1.92e+07	1.24 y	44:43	1.01	47.1		2.50	-	-	*	-
13C-PCB-156	4.04e+07	1.25 y	44:42	1.18	94.0		2.50				94.0
PCB-157	1.92e+07	1.29 y	44:58	0.96	47.5		2.50	-	-	*	-
13C-PCB-157	4.21e+07	1.27 y	44:56	1.22	94.4		2.50				94.4
PCB-169	1.75e+07	1.25 y	46:52	1.00	46.8		2.50	-	-	*	-
13C-PCB-169	3.74e+07	1.27 y	46:50	1.11	92.6		2.50				92.6
PCB-188	2.61e+07	1.04 y	39:45	1.09	46.0		2.50	-	-	*	-
13C-PCB-188	5.18e+07	1.07 y	39:44	1.22	116		2.50				116
PCB-189	2.09e+07	1.03 y	48:32	1.14	45.4		2.50	-	-	*	-
13C-PCB-189	4.04e+07	1.05 y	48:30	0.97	114		2.50				114
PCB-202	2.23e+07	0.89 y	44:51	1.05	45.5		2.50	-	-	*	-
13C-PCB-202	4.63e+07	0.91 y	44:51	0.88	145		2.50				145
13C-PCB-178	3.38e+07	1.08 y	42:22	0.77	120		2.50				120
13C-PCB-138	3.65e+07	1.25 y	41:36	-	52.3		2.50				

FAL ID: ST010617Z2 Filename: 06JAN17Z Sam:14 Acquired: 6-JAN-17 20:52:29 ICal: 1668FAL4-8-11-16
Client ID: CS352 ConCal: ST010617Z1 EndCal: ST010617Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	1.47e+07	0.90 y	50:14	1.02	50.2	2.50	-	-	*	-
13C-PCB-205	2.87e+07	0.89 y	50:13	1.38	93.3	2.50				93.3
PCB-208	1.58e+07	1.35 y	49:15	0.93	48.3	2.50	-	-	*	-
13C-PCB-208	3.50e+07	0.79 y	49:14	1.31	120	2.50				120
PCB-206	1.15e+07	1.35 y	51:29	0.94	48.3	2.50	-	-	*	-
13C-PCB-206	2.53e+07	0.78 y	51:28	1.01	112	2.50				112
PCB-209	1.92e+07	1.16 y	52:43	1.10	48.6	2.50	-	-	*	-
13C-PCB-209	3.59e+07	1.20 y	52:42	1.34	120	2.50				120
13C-PCB-194	2.23e+07	0.90 y	49:58	-	44.3	2.50				

Analyst: [illegible] Date: 1/9/17

Frontier Analytical Laboratory - Acquisition Log

Run Name:06JAN17Z Instrument: FAL4 GC: DB1 Experiment:1668PCB

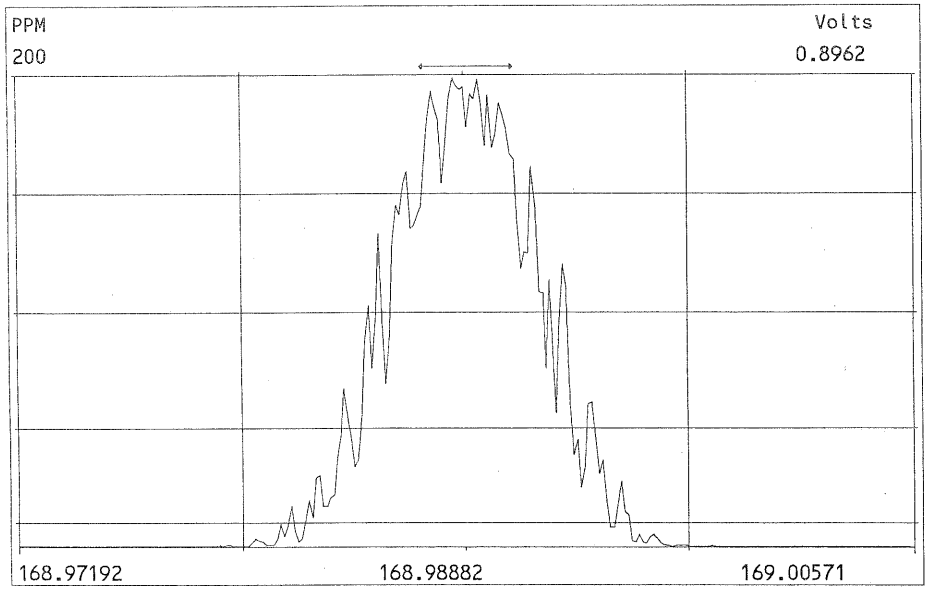
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
06JAN17Z	1	ST010617Z1	CS351	6-JAN-17 08:14:16	ST010617Z1	ST010617Z2	BS
06JAN17Z	2	SS010617Z1	CS20951	6-JAN-17 09:12:35	ST010617Z1	ST010617Z2	BS
06JAN17Z	3	03955-001-0001-MB	Method Blank	6-JAN-17 10:10:54	ST010617Z1	ST010617Z2	BS
06JAN17Z	4	03955-001-0001-OPR	OPR	6-JAN-17 11:09:13	ST010617Z1	ST010617Z2	BS
06JAN17Z	5	10322-001-0001-SA	LDW-BA-SU-S010-TB-EXSITU1	6-JAN-17 12:07:33	ST010617Z1	ST010617Z2	BS
06JAN17Z	6	10322-002-0001-SA	LDW-BA-SU-S010-TB-EXSITU2	6-JAN-17 13:05:52	ST010617Z1	ST010617Z2	BS
06JAN17Z	7	10322-003-0001-SA	LDW-BA-SU-S010-TB-EXSITU3	6-JAN-17 14:04:12	ST010617Z1	ST010617Z2	BS
06JAN17Z	8	10324-001-0001-SA	PC1311	6-JAN-17 15:02:32	ST010617Z1	ST010617Z2	BS
06JAN17Z	9	10324-002-0001-SA	PC1312	6-JAN-17 16:00:51	ST010617Z1	ST010617Z2	BS
06JAN17Z	10	10324-003-0001-SA	PC1313	6-JAN-17 16:59:11	ST010617Z1	ST010617Z2	BS
06JAN17Z	11	10324-004-0001-SA	PC1314	6-JAN-17 17:57:31	ST010617Z1	ST010617Z2	BS
06JAN17Z	12	10324-005-0001-SA	PC1315	6-JAN-17 18:55:50	ST010617Z1	ST010617Z2	BS
06JAN17Z	13	SB010617Z1	Solvent Blank	6-JAN-17 19:54:10	ST010617Z1	ST010617Z2	BS
06JAN17Z	14	ST010617Z2	CS352	6-JAN-17 20:52:29	ST010617Z1	ST010617Z2	BS

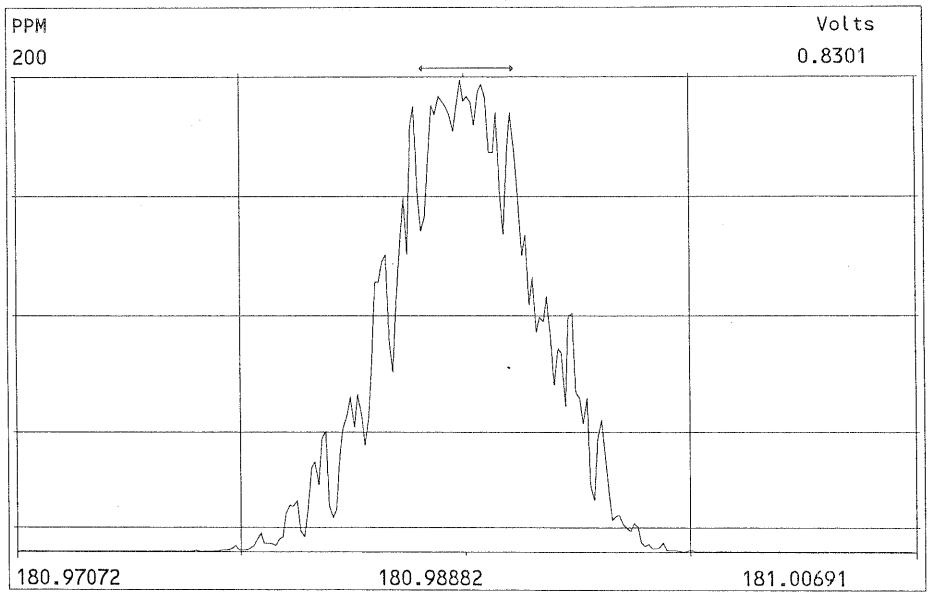
8 1/7/17

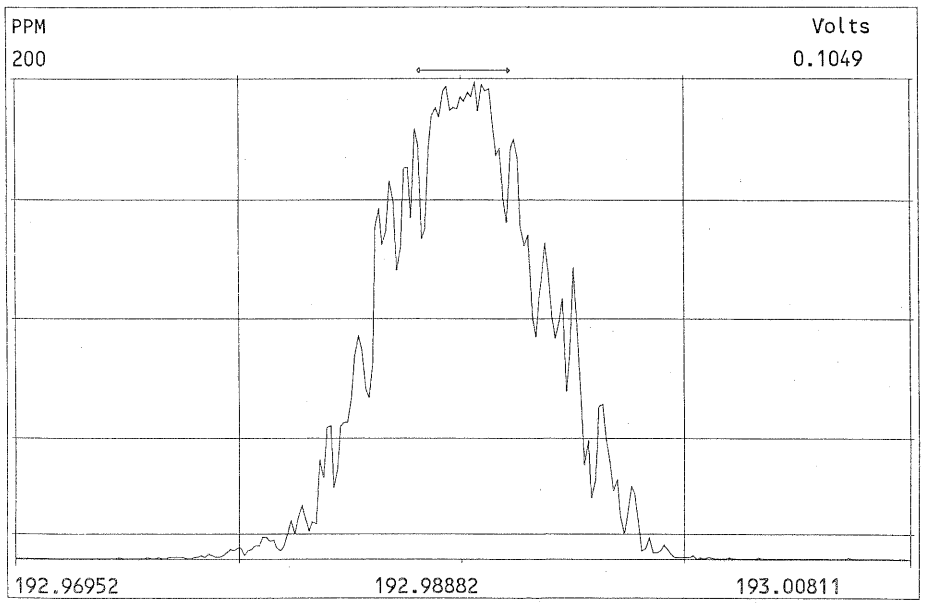
Data Backed Up:_____

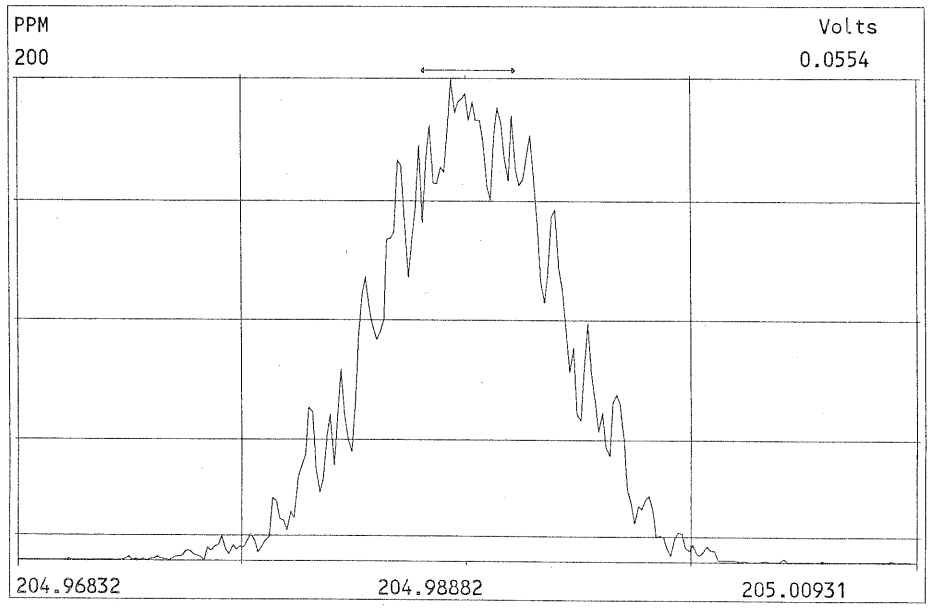
Date:_____

Peak Locate Examination: 6-JAN-2017:08:11 File:06JAN17Z
Experiment:1668PCB Function:1 Reference:PFK 5)

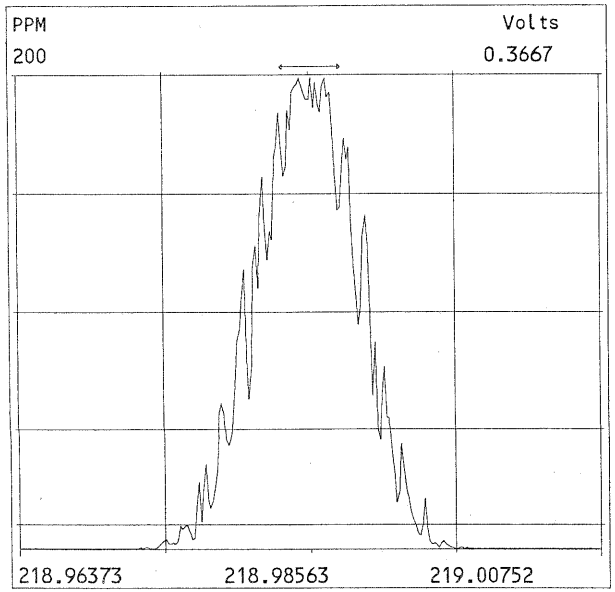


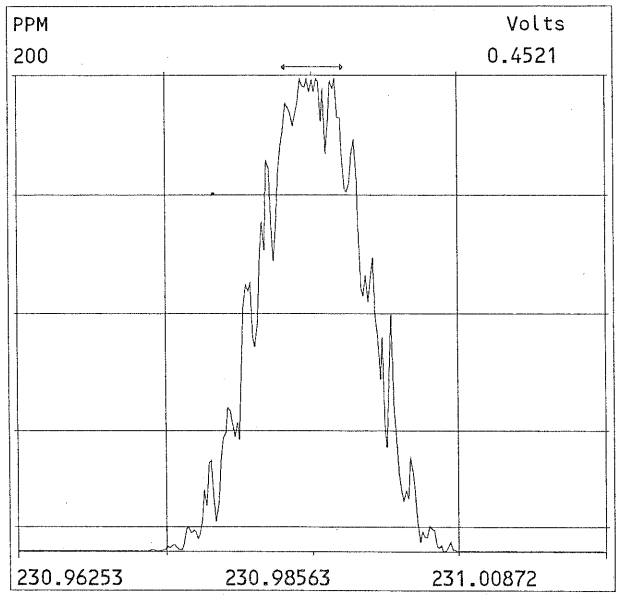


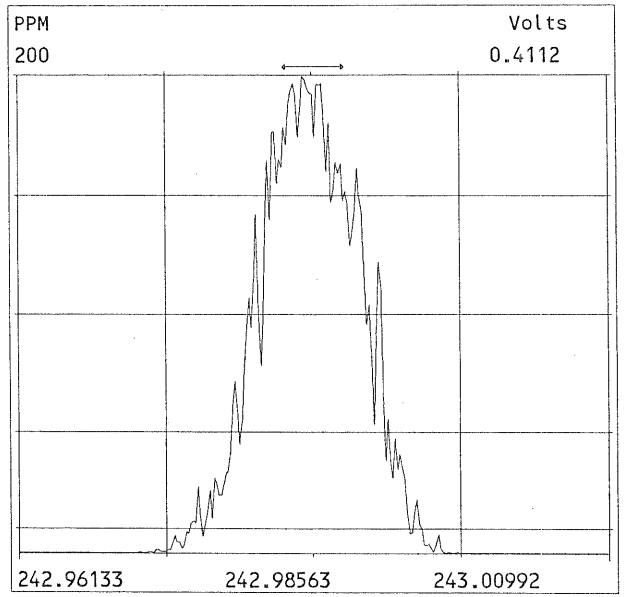


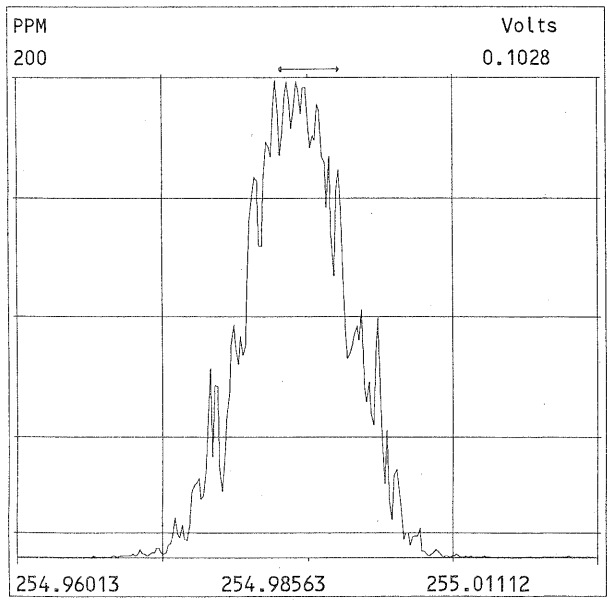


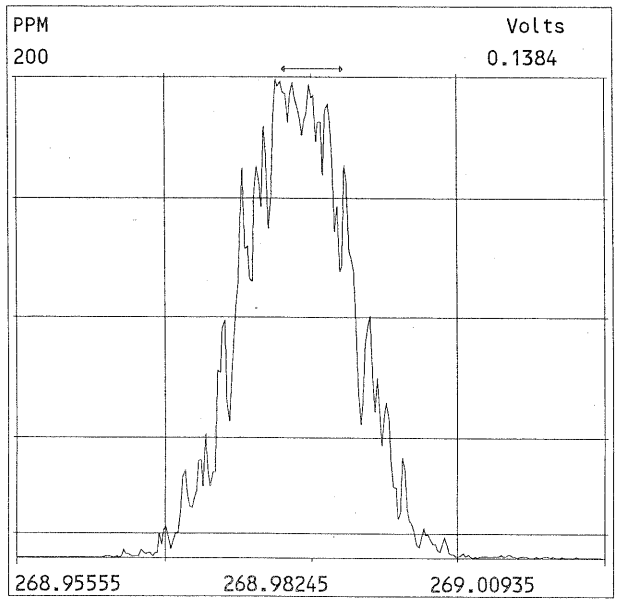
Peak Locate Examination: 6-JAN-2017:08:11 File:06JAN17Z
Experiment:1668PCB Function:2 Reference:PFK51

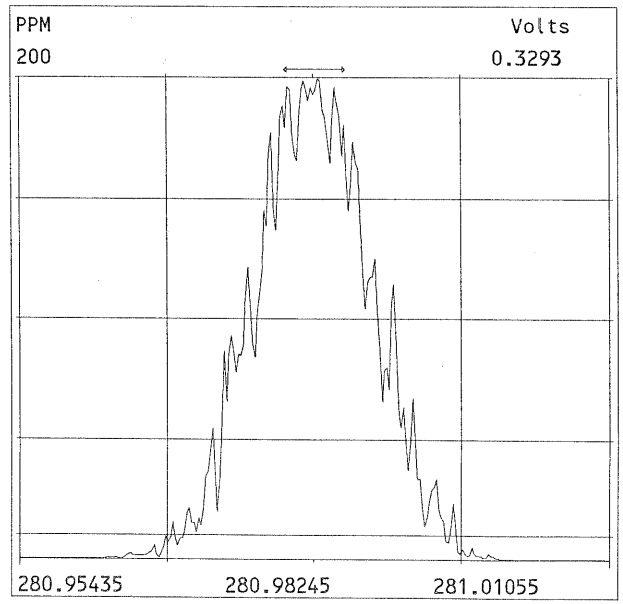




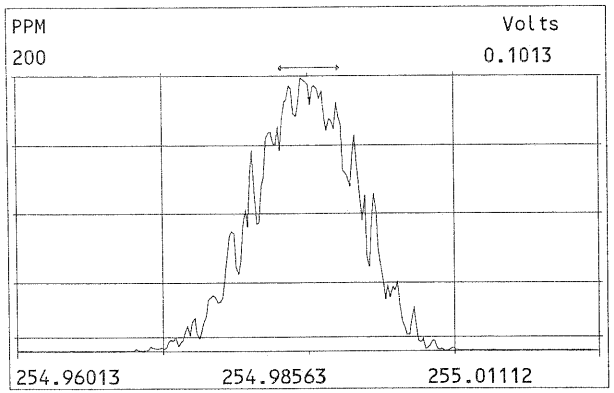


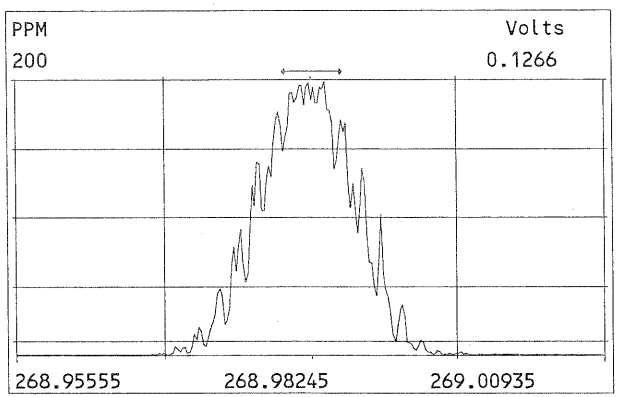


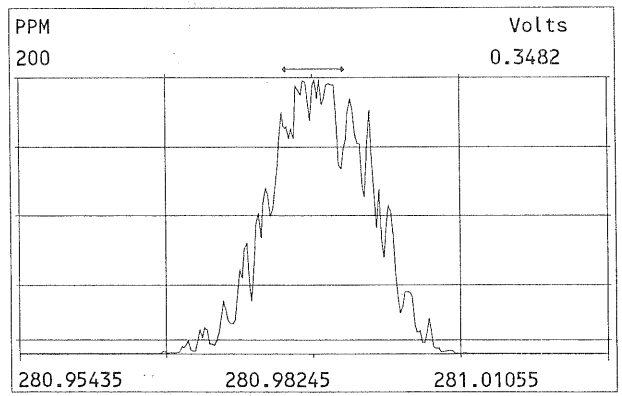


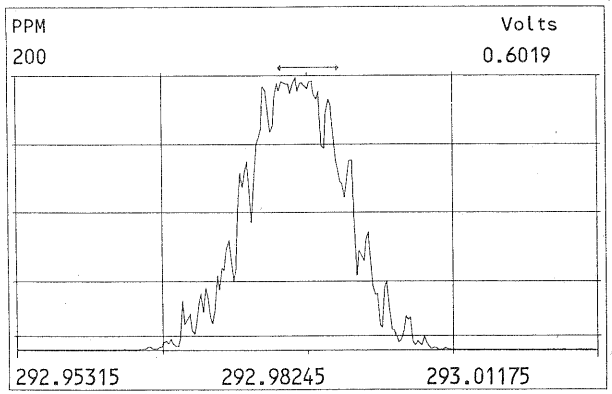


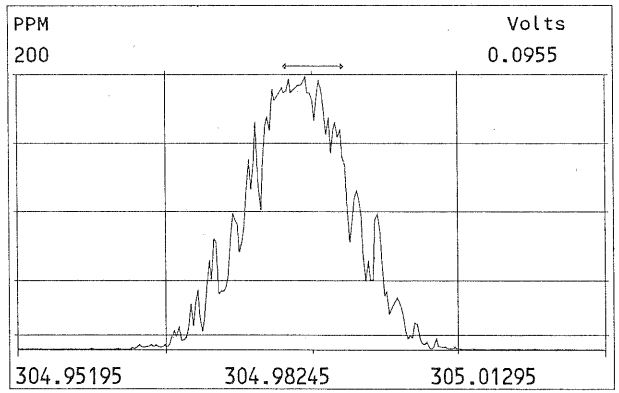
Peak Locate Examination: 6-JAN-2017:08:12 File:06JAN17Z
Experiment:1668PCB Function:3 Reference:PFK 51

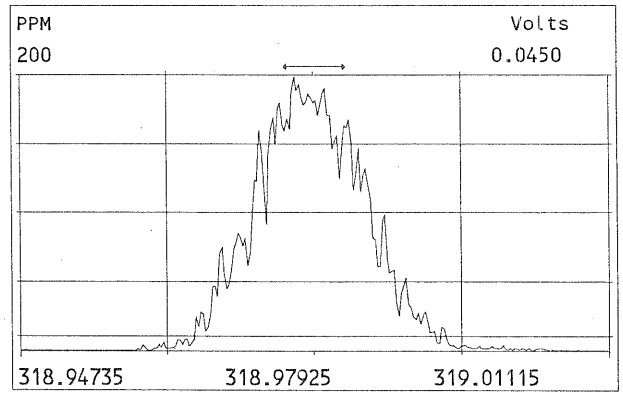


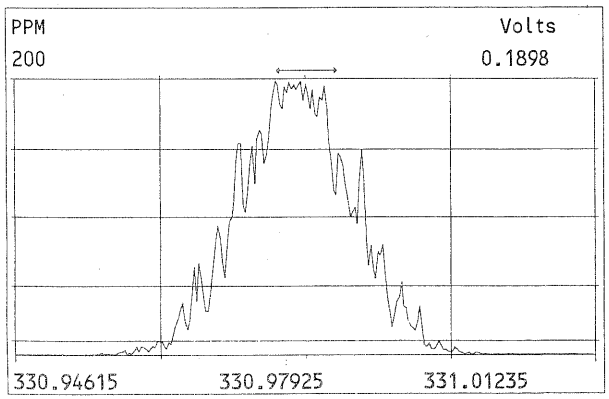


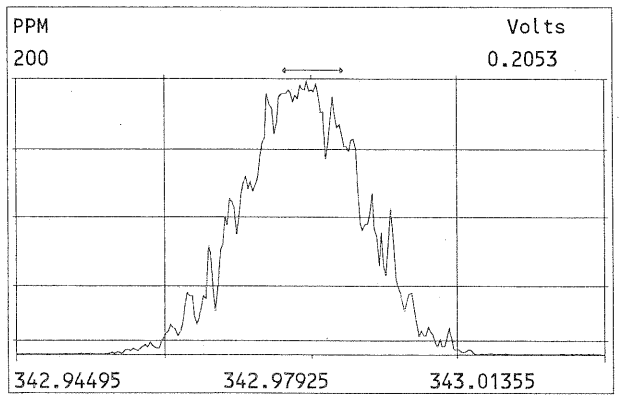




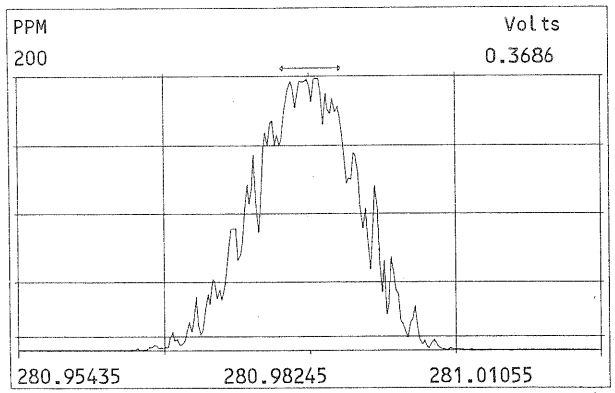


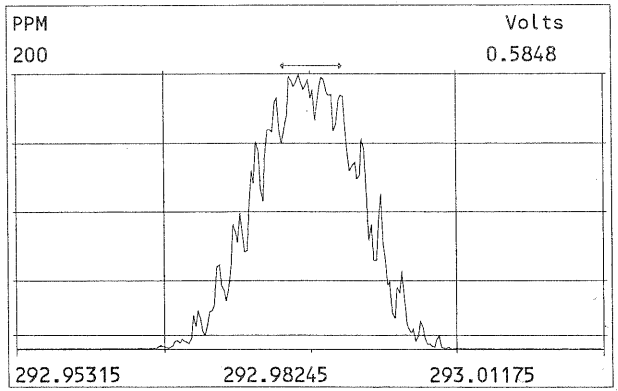


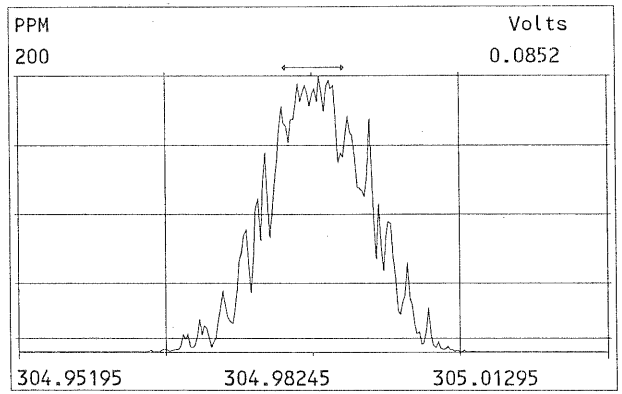


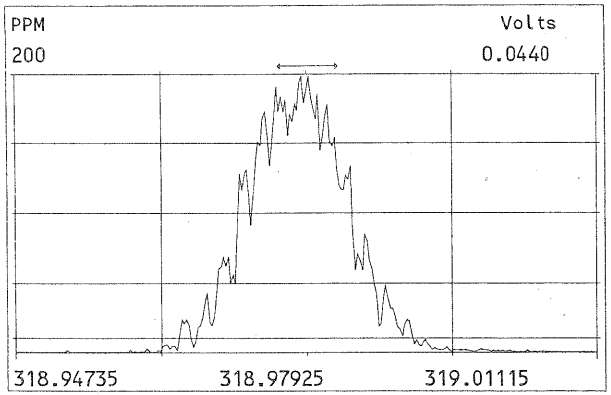


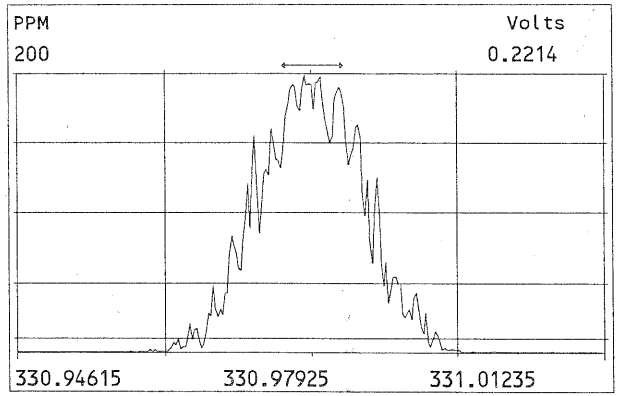
Peak Locate Examination: 6-JAN-2017:08:12 File:06JAN17Z
Experiment:1668PCB Function:4 Reference:PFK 51

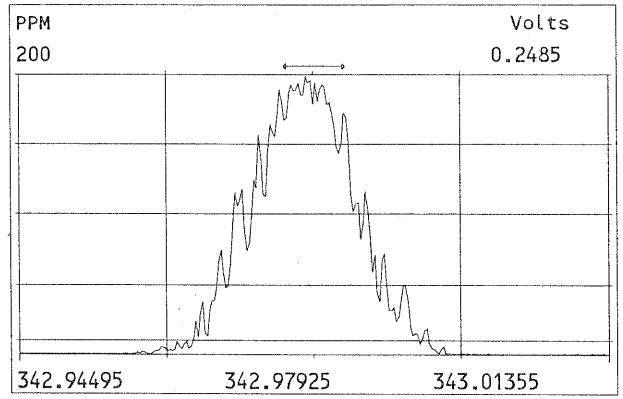


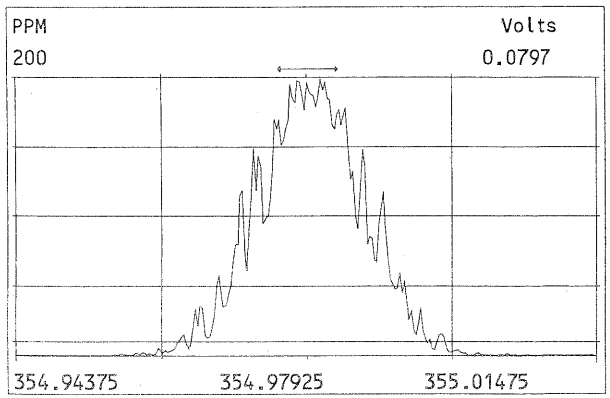


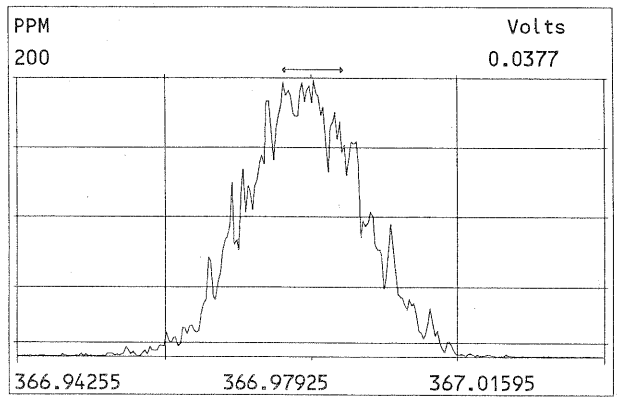


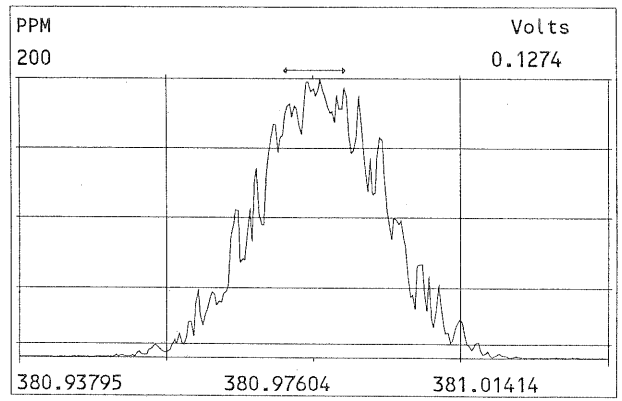




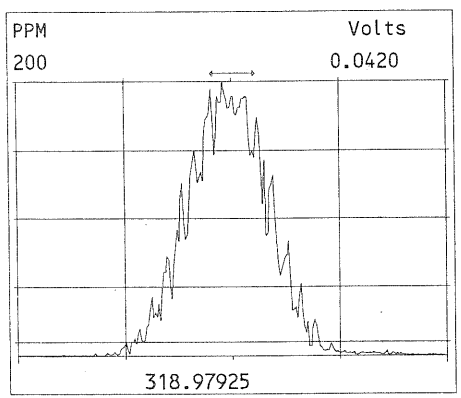


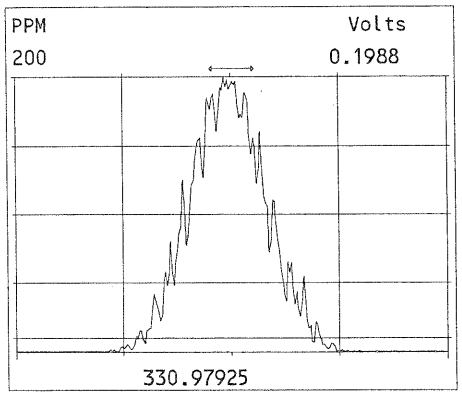


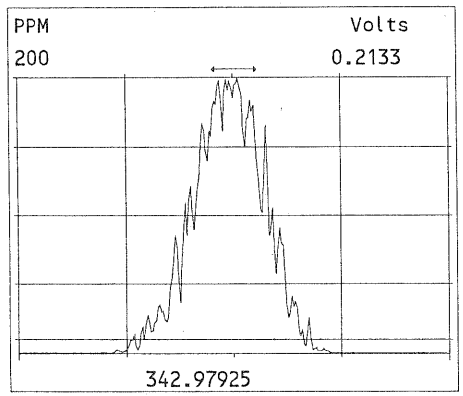


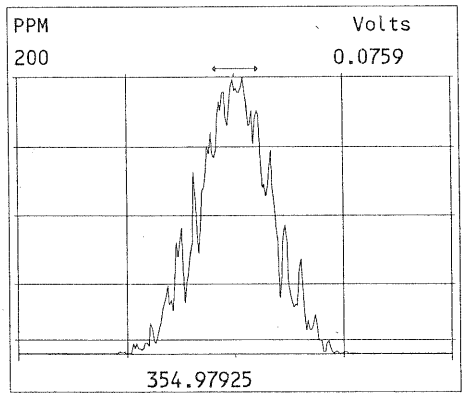


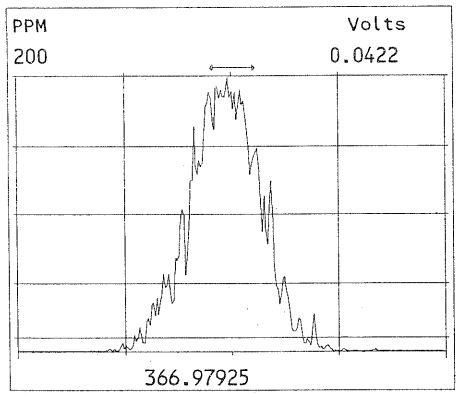
Peak Locate Examination: 6-JAN-2017:08:13 File:06JAN17Z
Experiment:1668PCB Function:5 Reference:PFK51

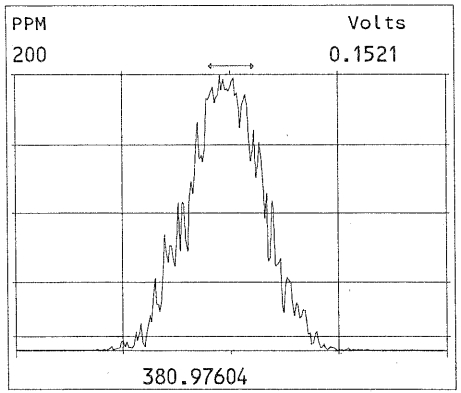


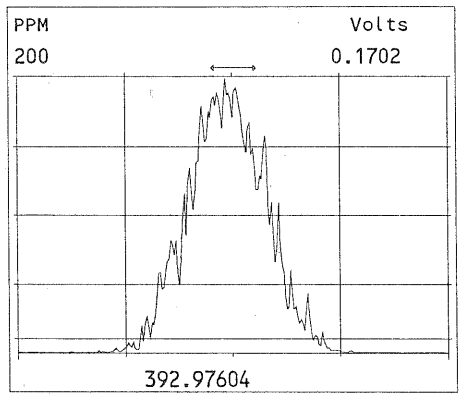


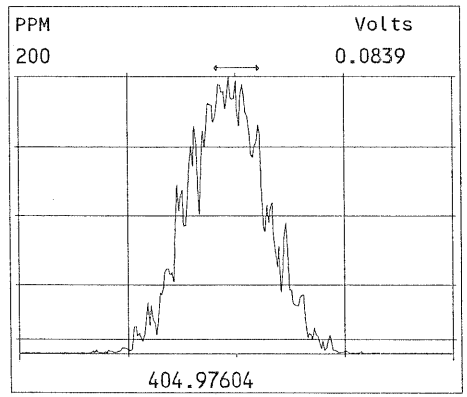


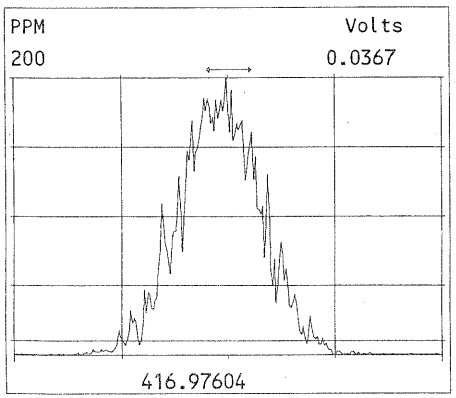


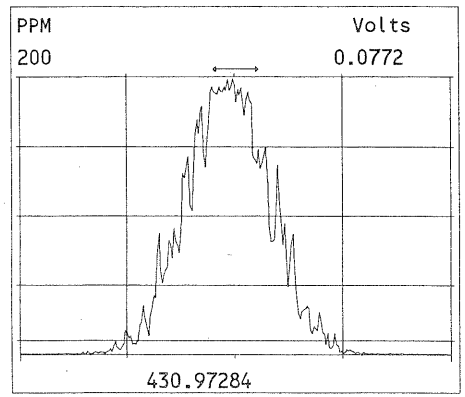


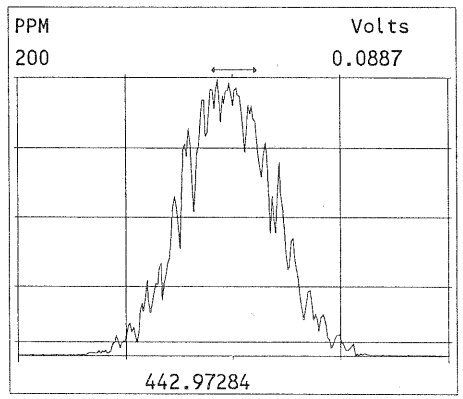




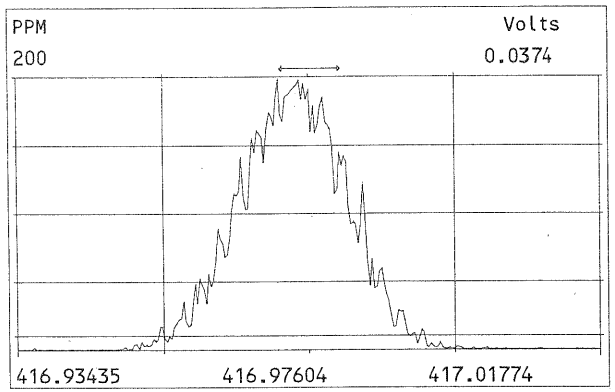


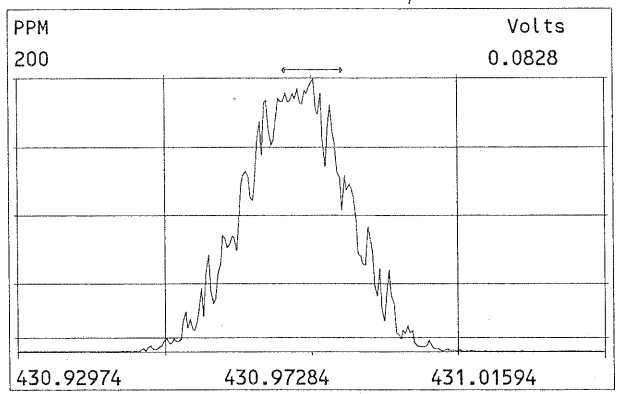


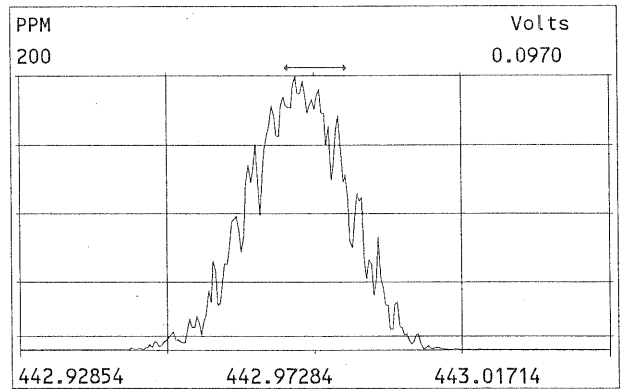


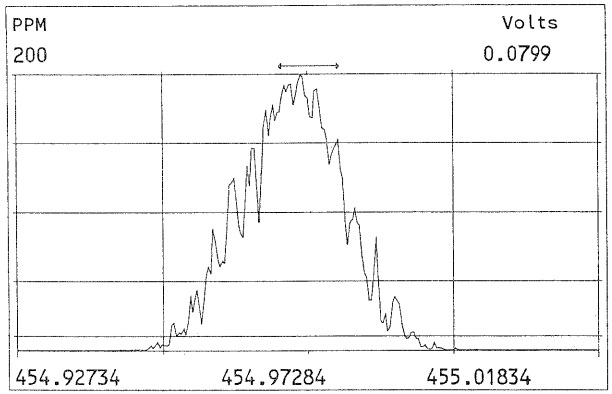


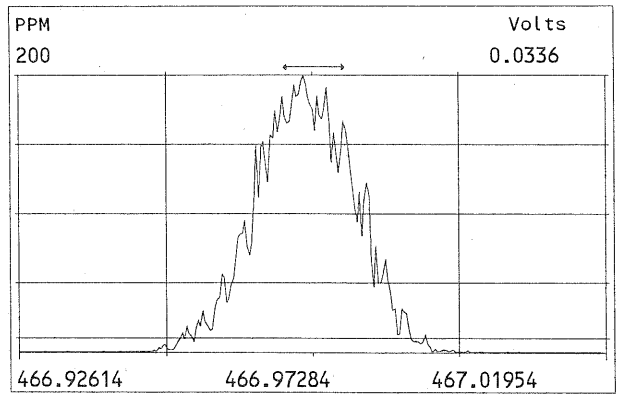
Peak Locate Examination: 6-JAN-2017:08:13 File:06JAN17Z
Experiment:1668PCB Function:6 Reference:PFK5/

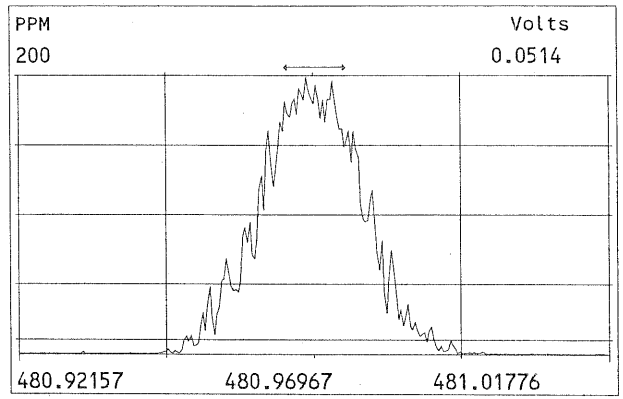


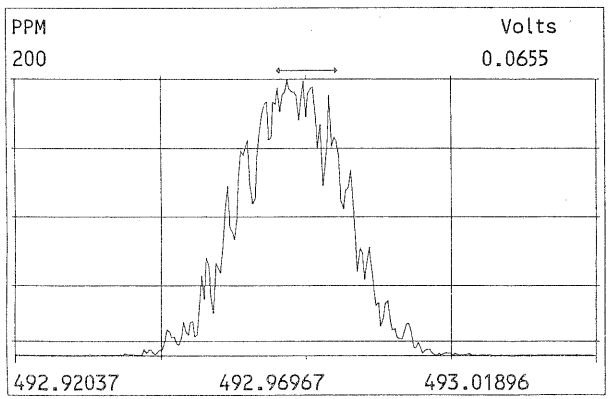


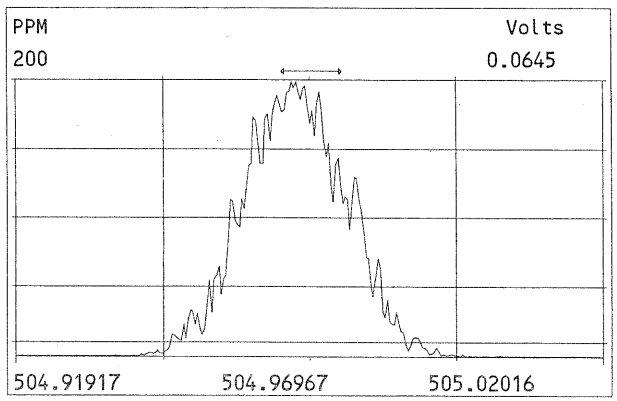


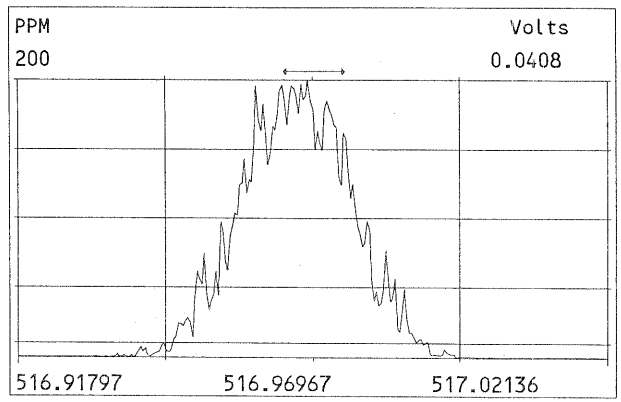




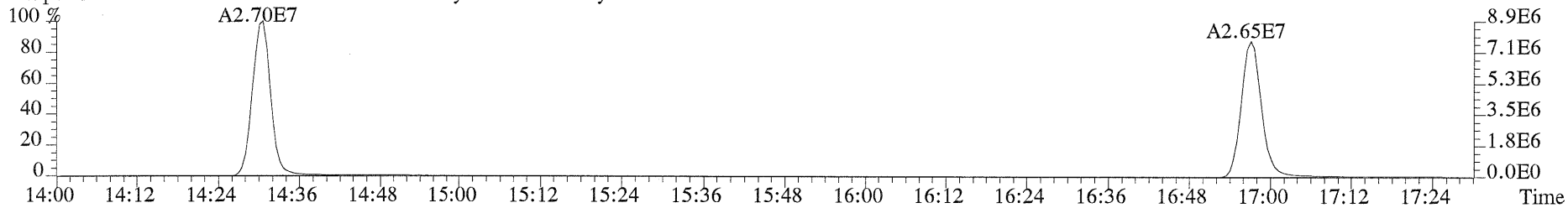




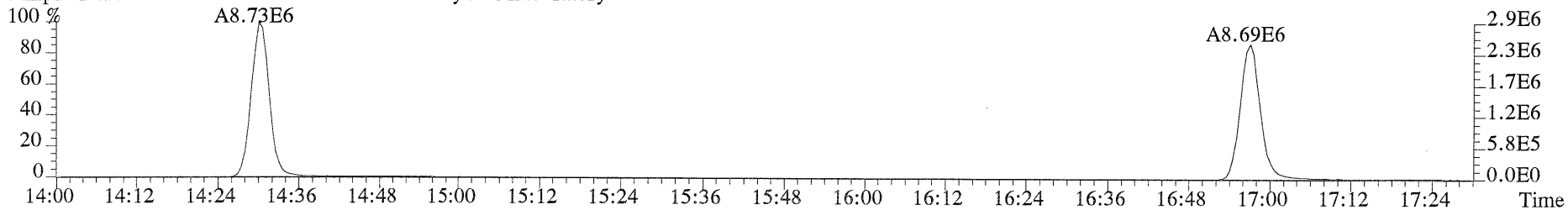




File:06JAN17Z #1-784 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-784 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



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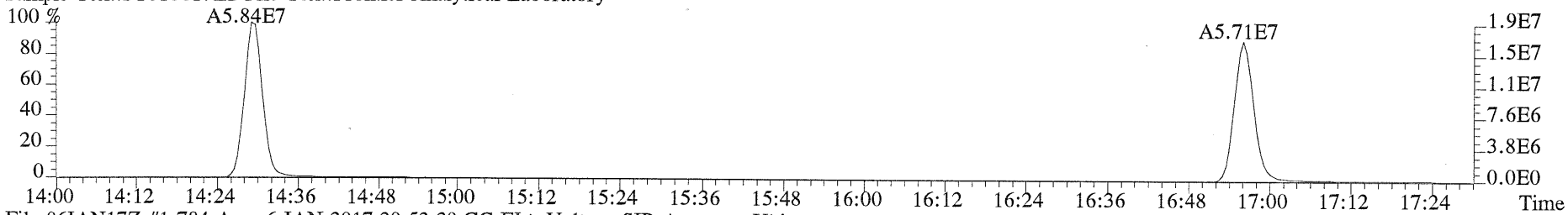
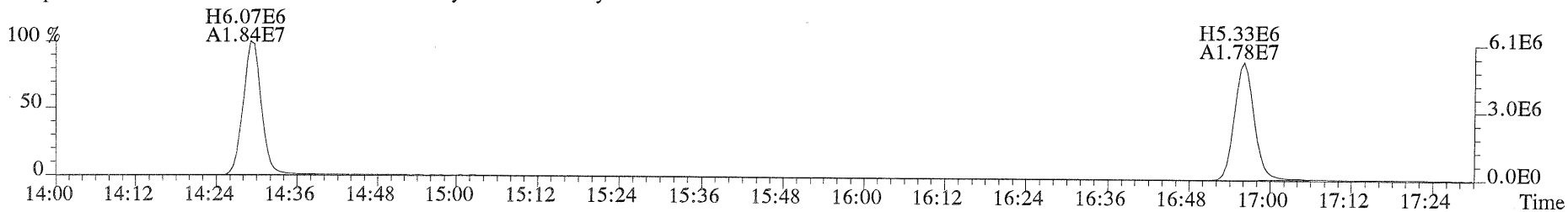
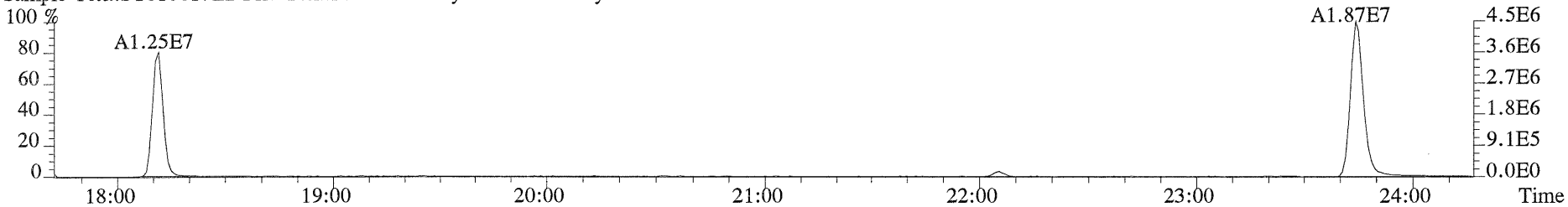
200.0795 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



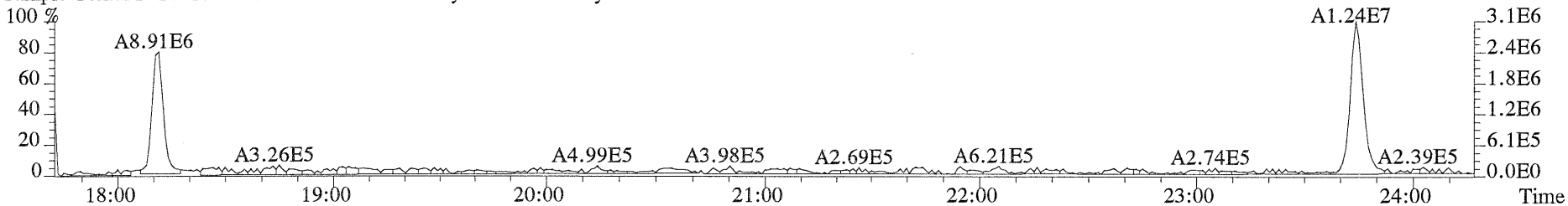
File:06JAN17Z #1-784 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



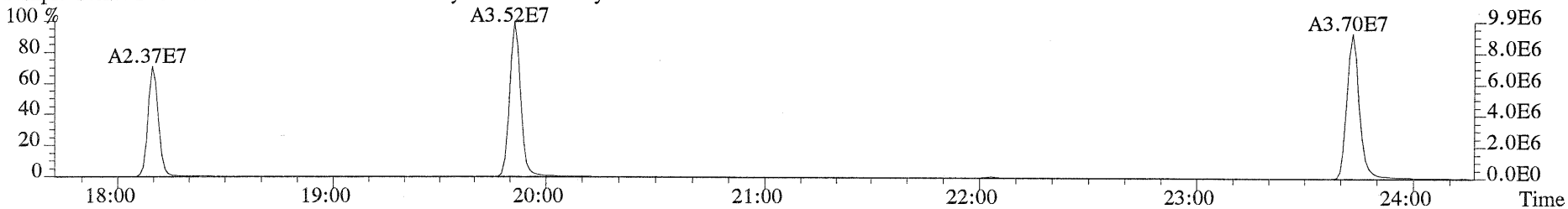
File:06JAN17Z #1-509 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



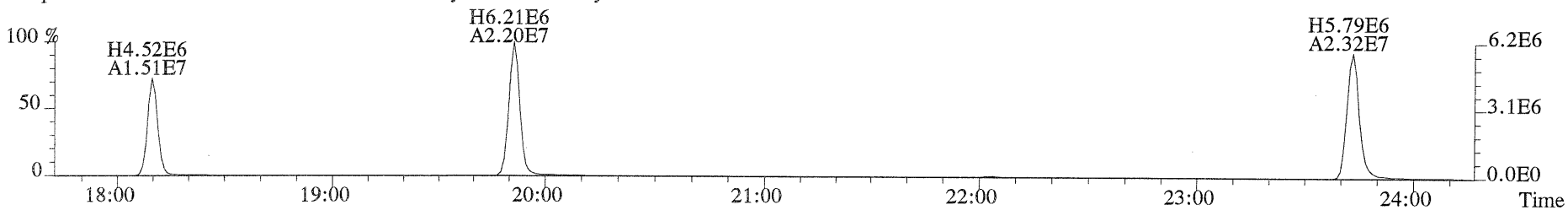
File:06JAN17Z #1-509 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



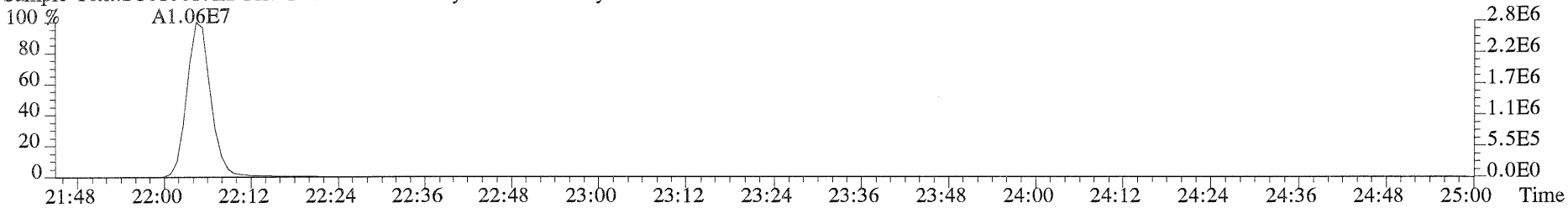
File:06JAN17Z #1-509 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



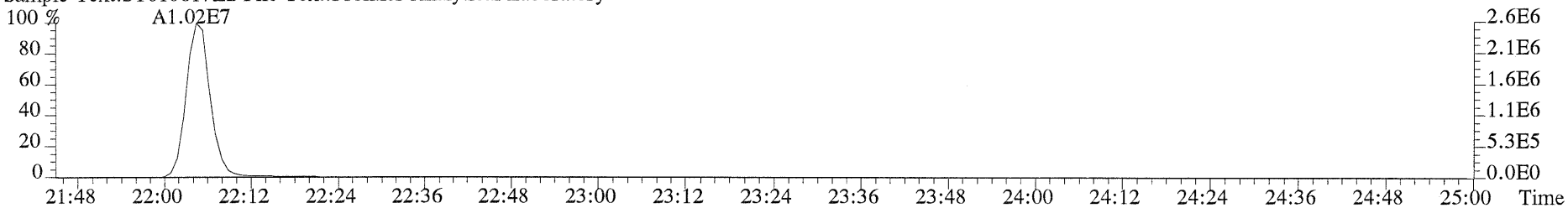
File:06JAN17Z #1-509 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



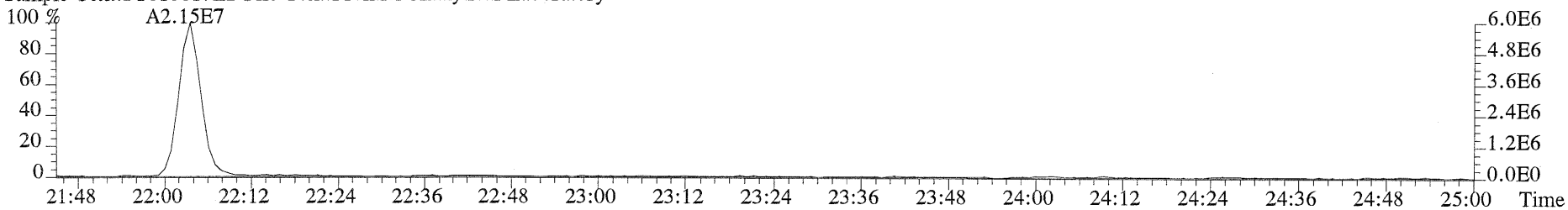
File:06JAN17Z #1-509 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



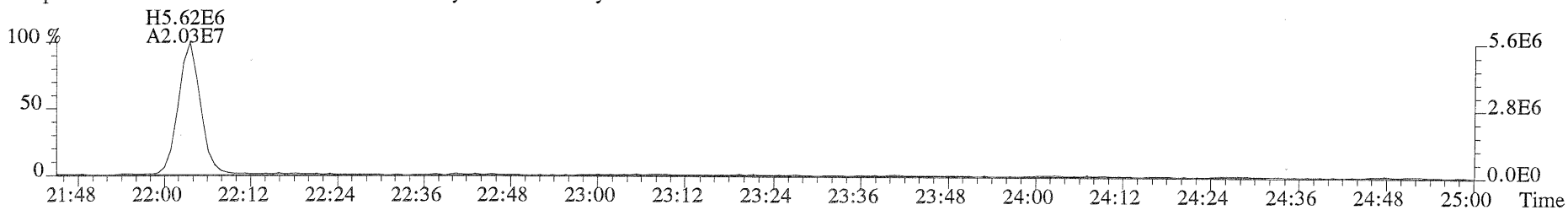
File:06JAN17Z #1-509 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-509 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-509 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



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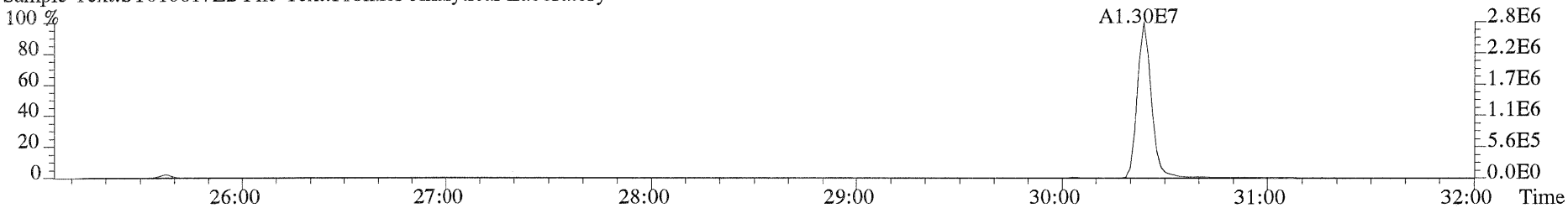
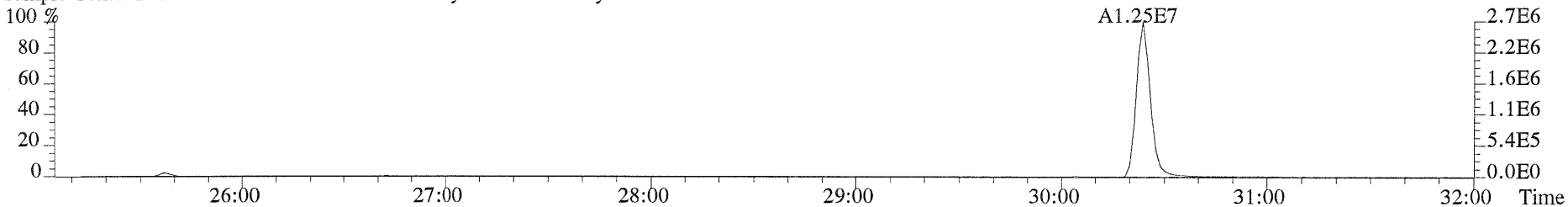
255.9613 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-407 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



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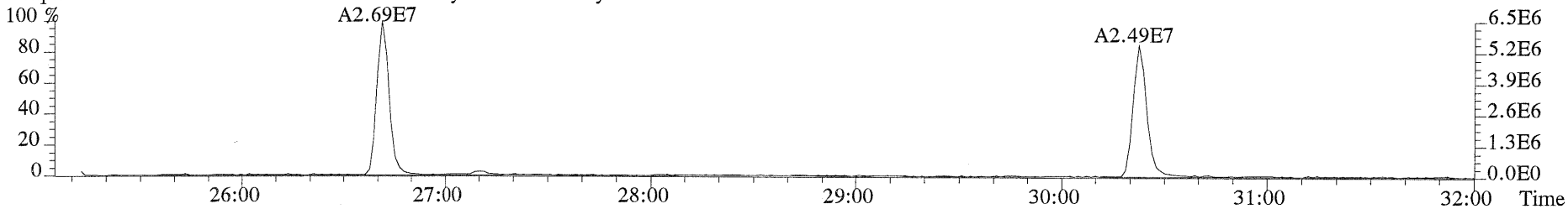
268.0016 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



File:06JAN17Z #1-407 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
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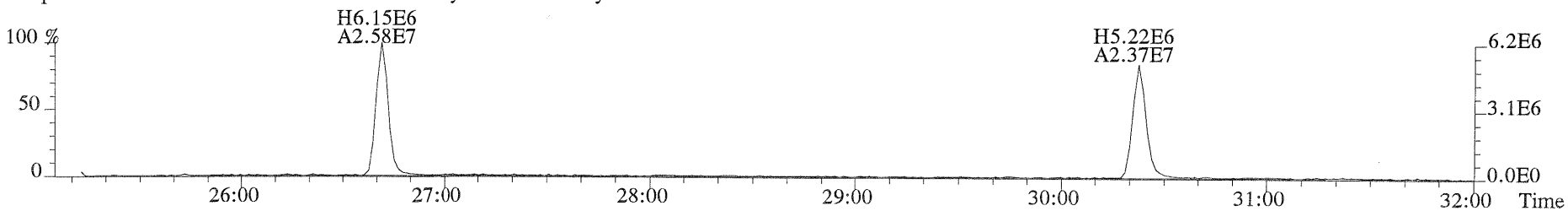
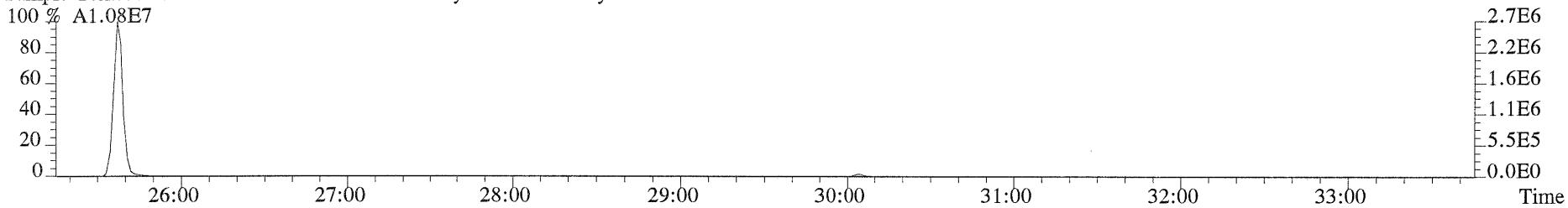
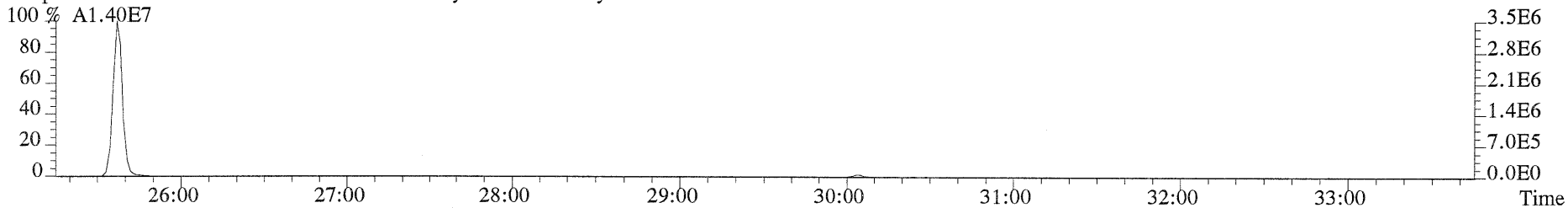
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



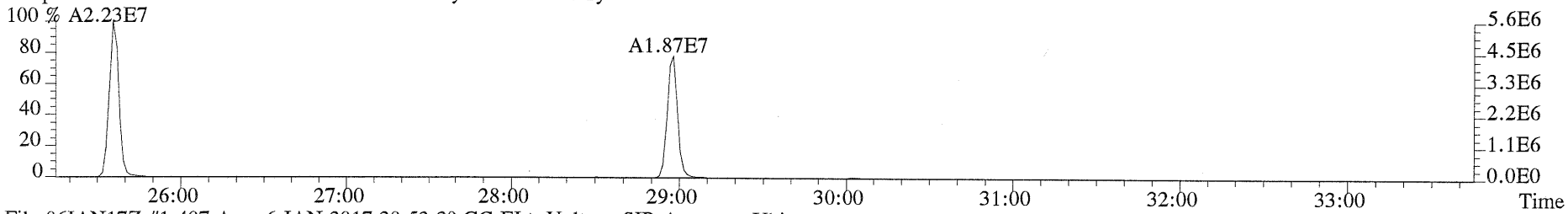
File:06JAN17Z #1-407 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



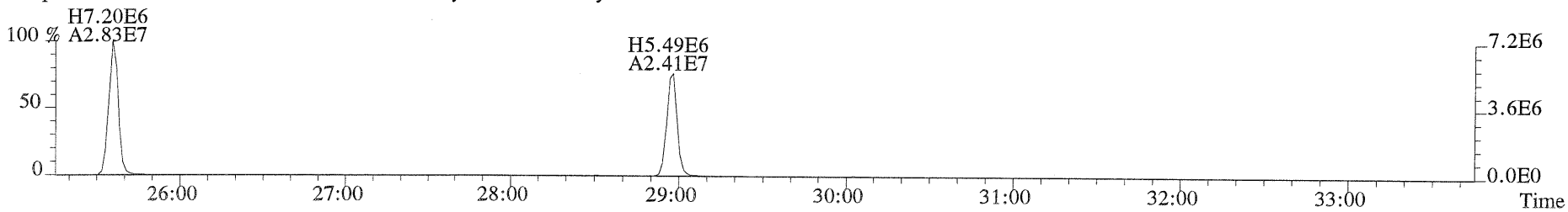
File:06JAN17Z #1-407 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



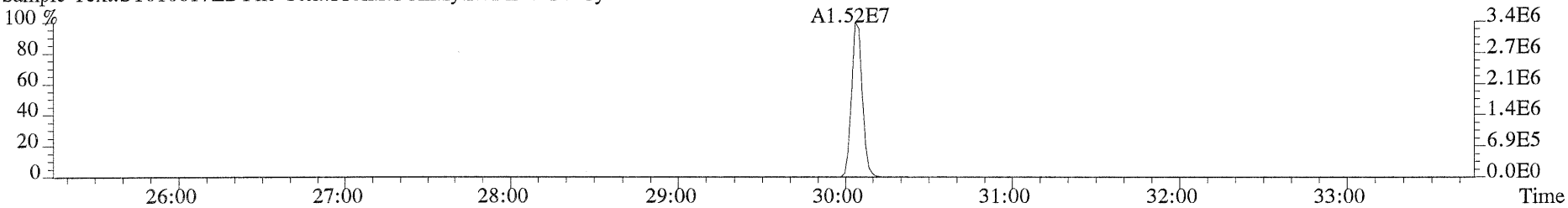
File:06JAN17Z #1-407 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



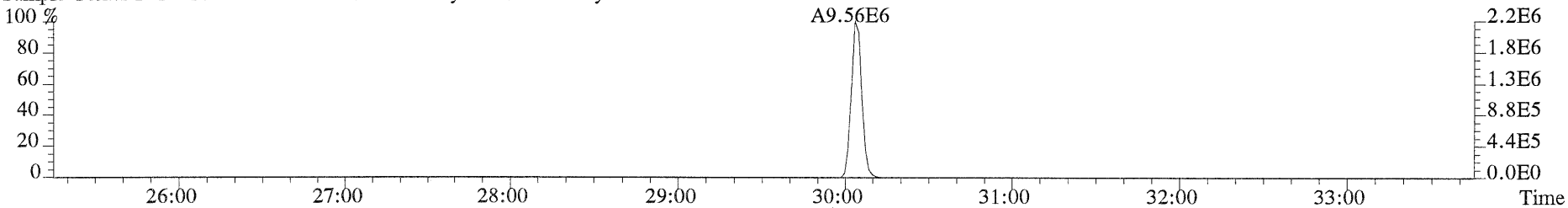
File:06JAN17Z #1-407 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



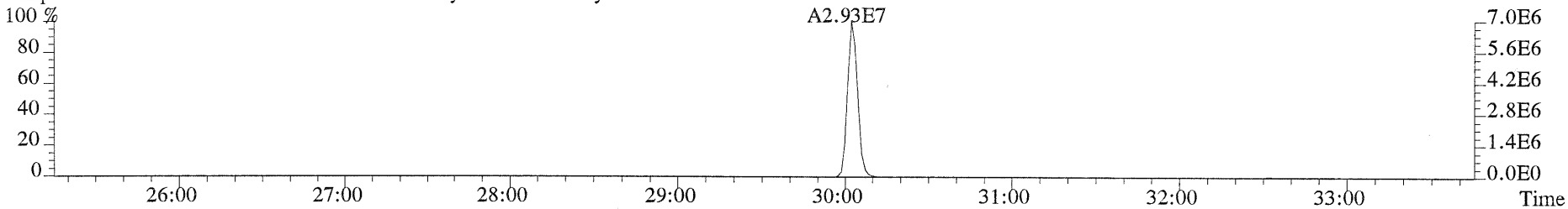
File:06JAN17Z #1-407 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



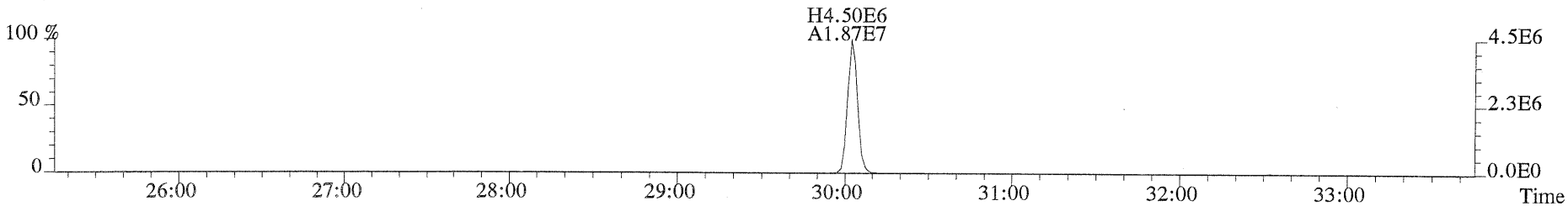
File:06JAN17Z #1-407 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



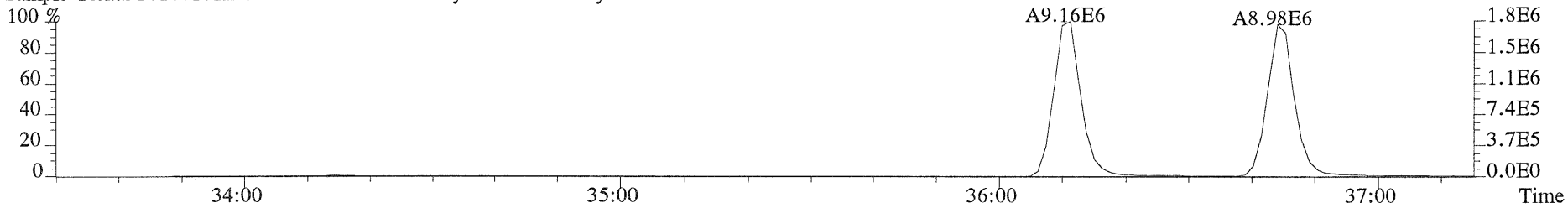
File:06JAN17Z #1-407 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



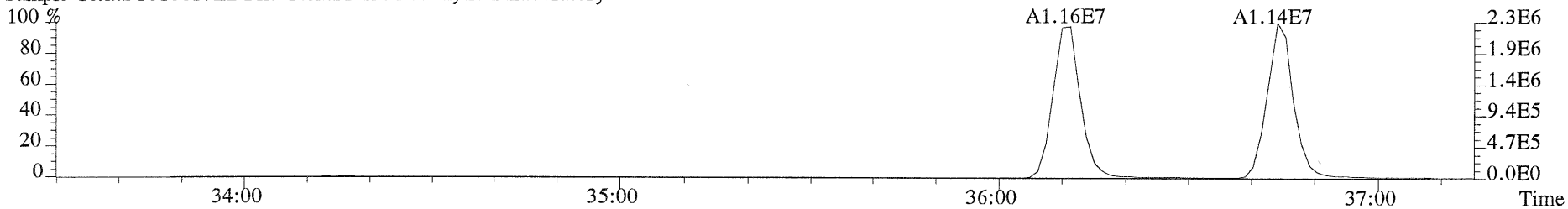
File:06JAN17Z #1-407 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



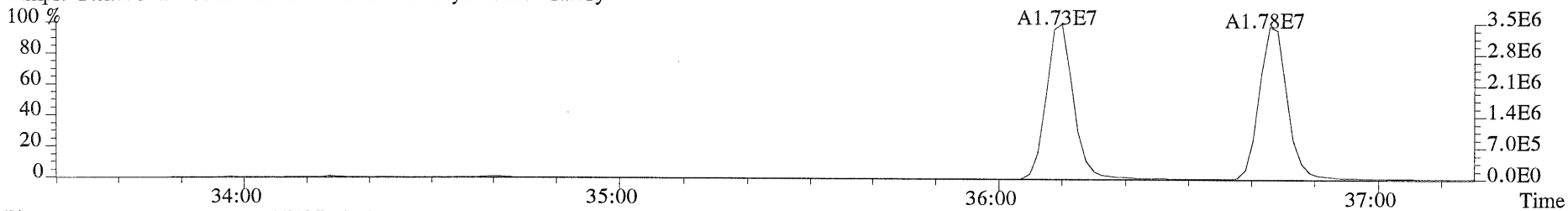
File:06JAN17Z #1-181 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



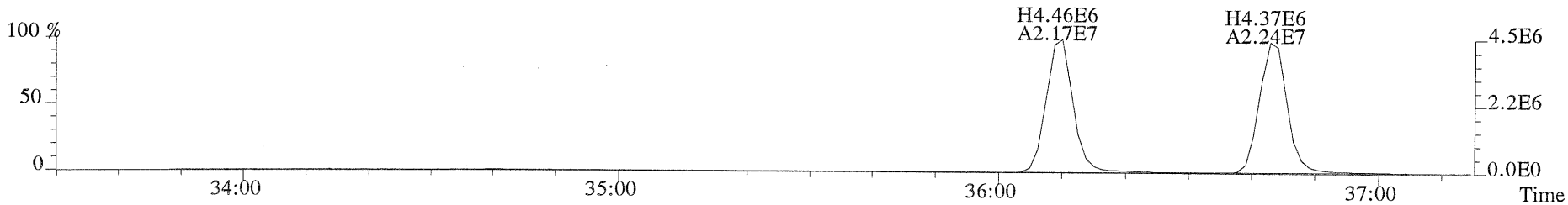
File:06JAN17Z #1-181 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



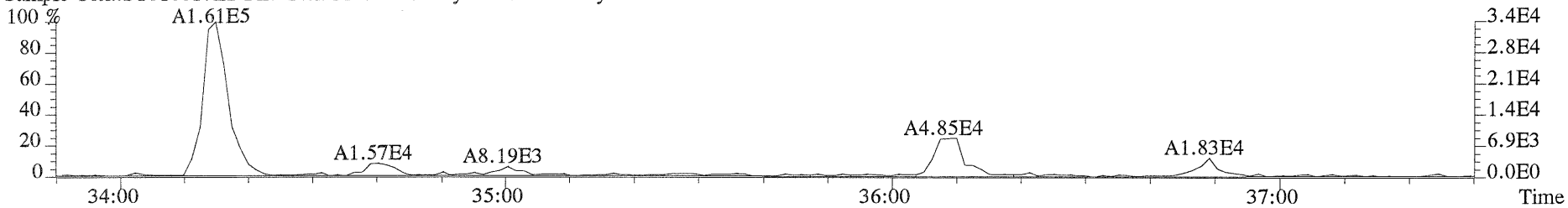
File:06JAN17Z #1-181 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



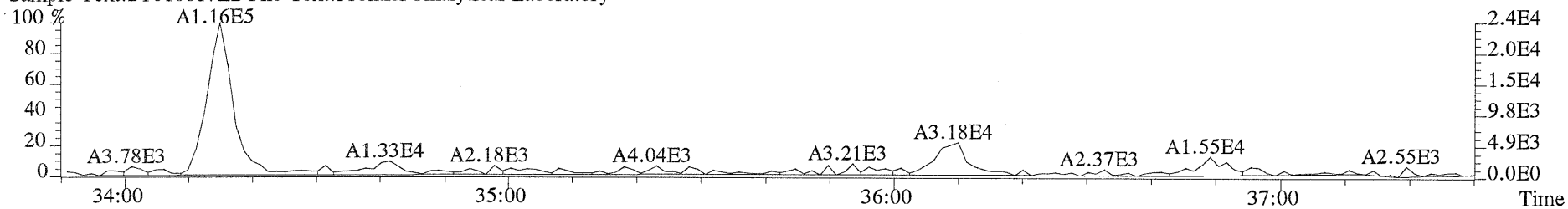
File:06JAN17Z #1-181 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



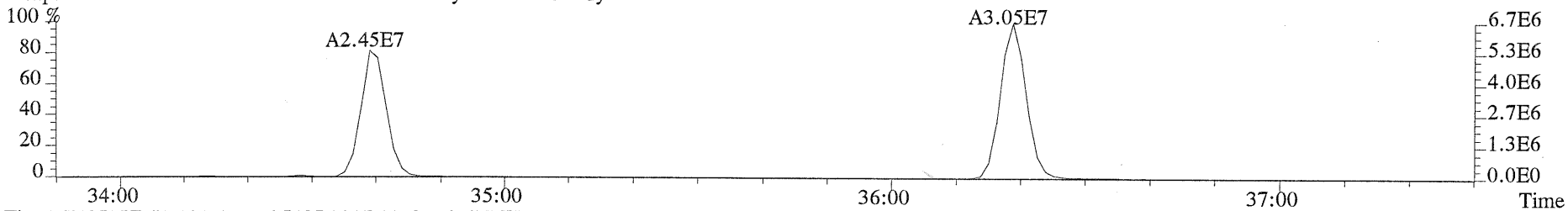
File:06JAN17Z #1-181 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



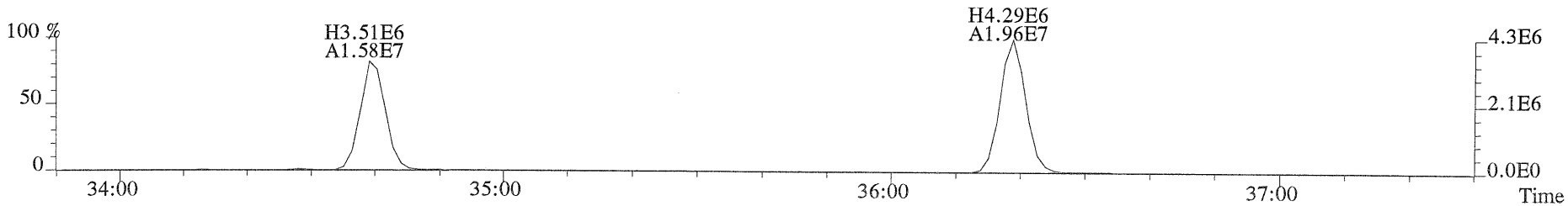
File:06JAN17Z #1-181 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



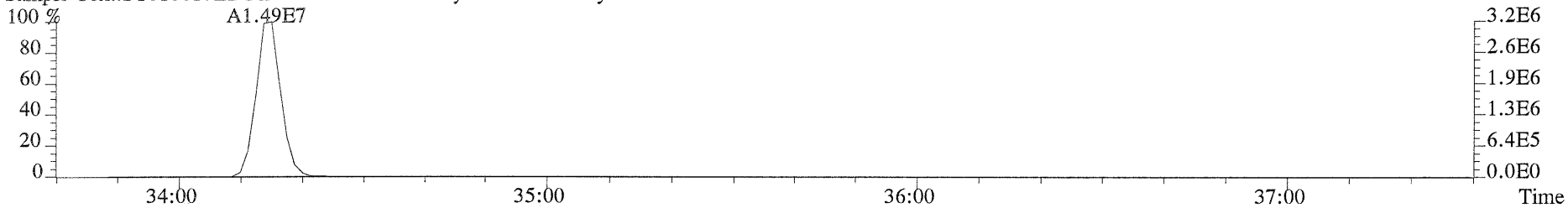
File:06JAN17Z #1-181 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



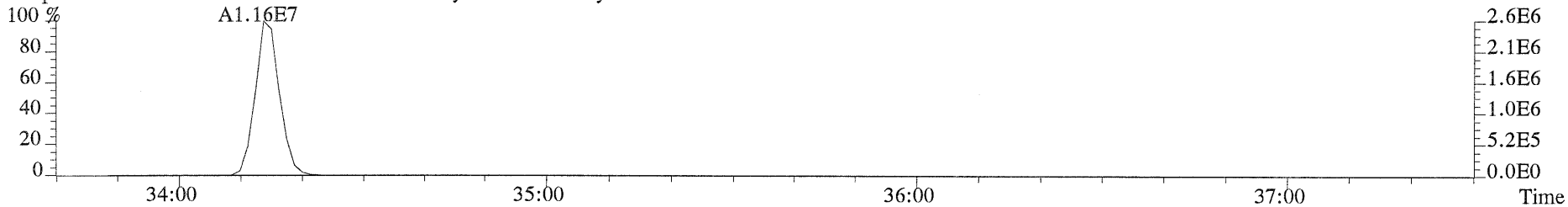
File:06JAN17Z #1-181 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



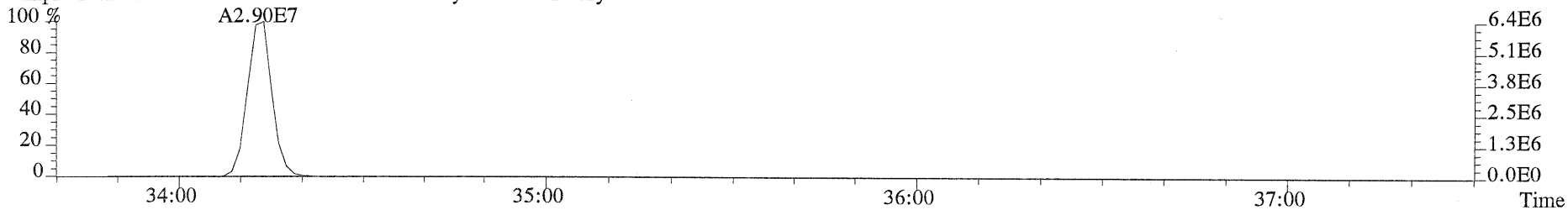
File:06JAN17Z #1-181 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



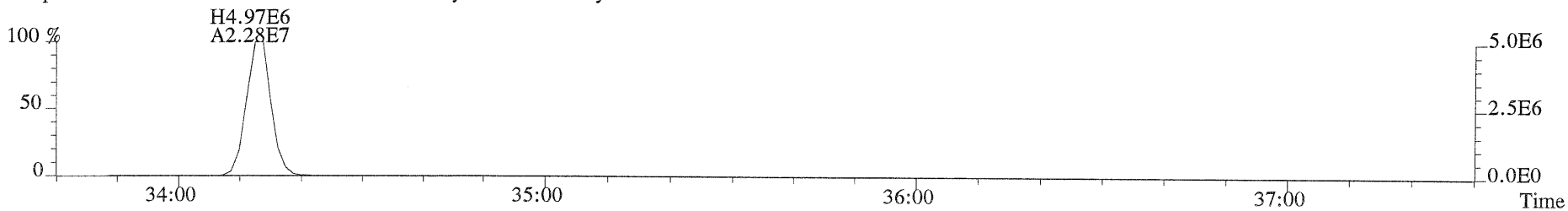
File:06JAN17Z #1-181 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



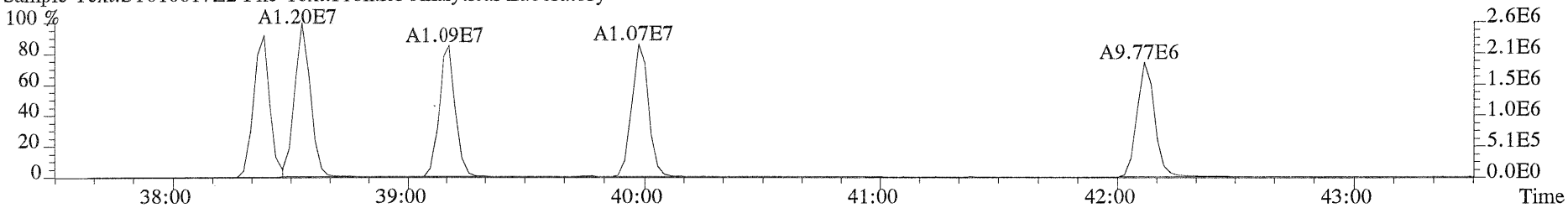
File:06JAN17Z #1-181 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



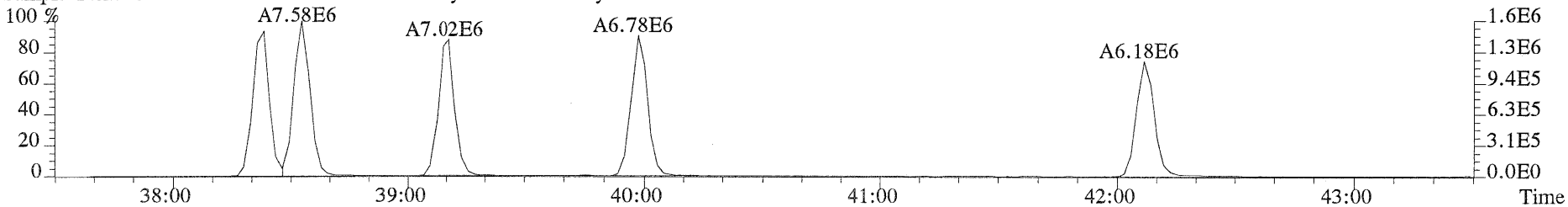
File:06JAN17Z #1-181 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



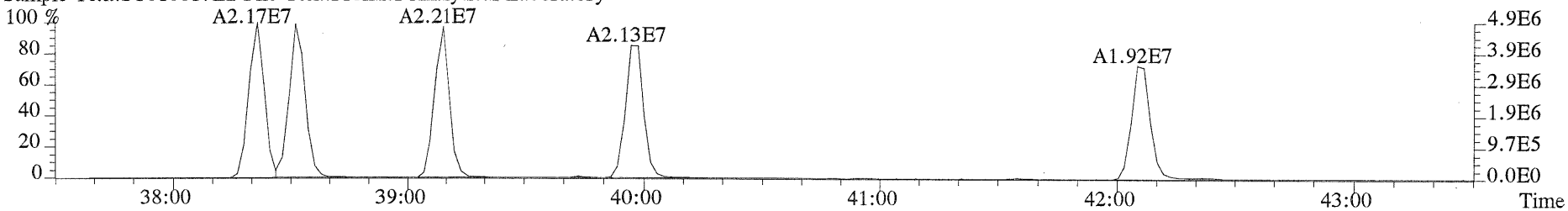
File:06JAN17Z #1-412 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



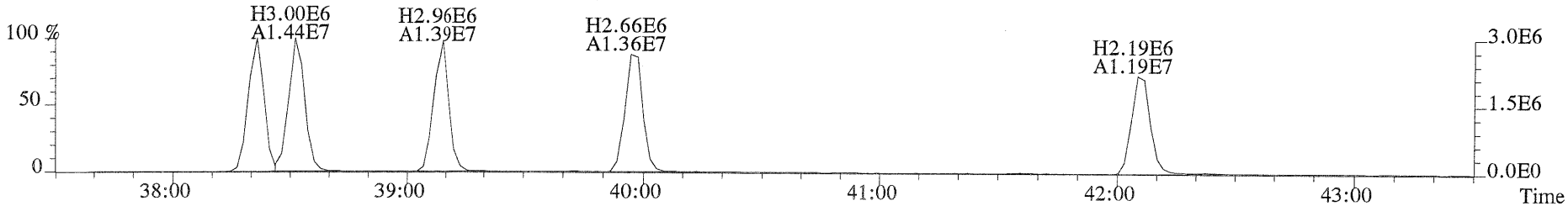
File:06JAN17Z #1-412 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



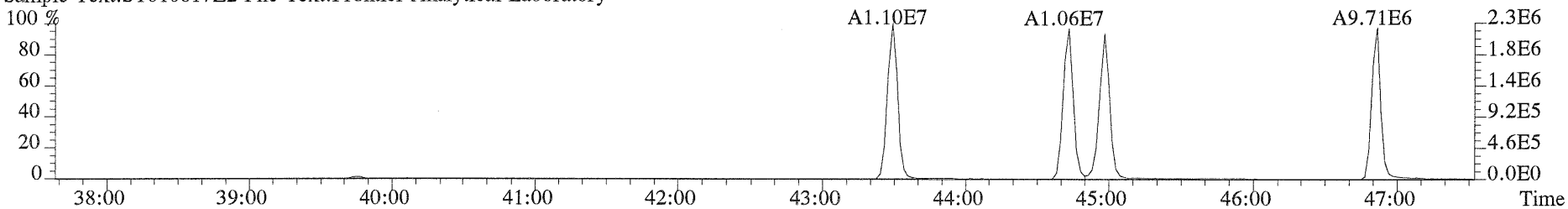
File:06JAN17Z #1-412 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



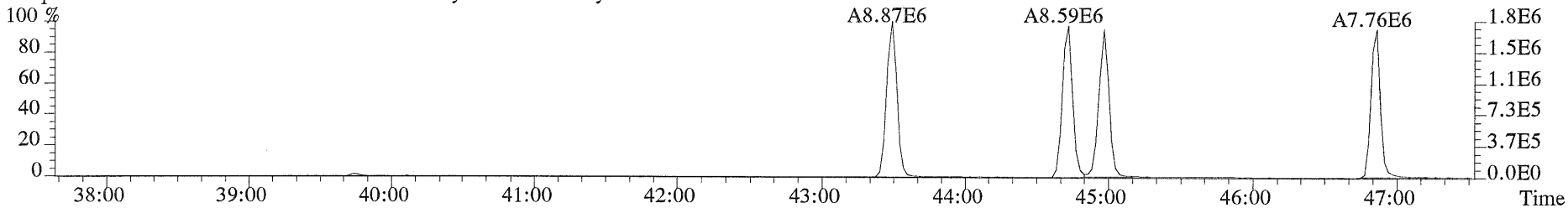
File:06JAN17Z #1-412 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



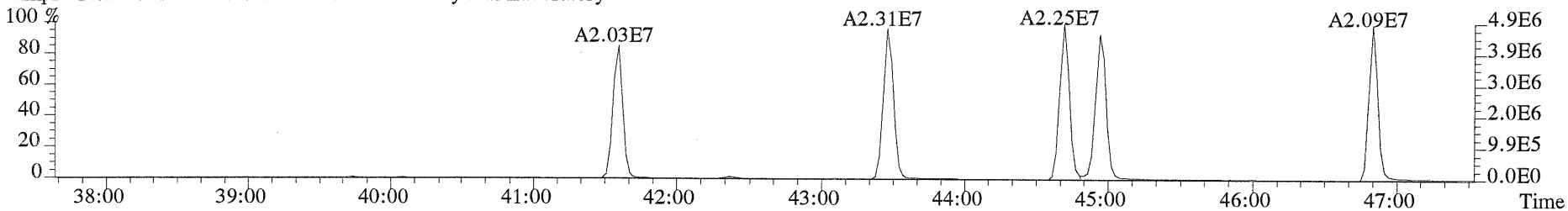
File:06JAN17Z #1-412 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



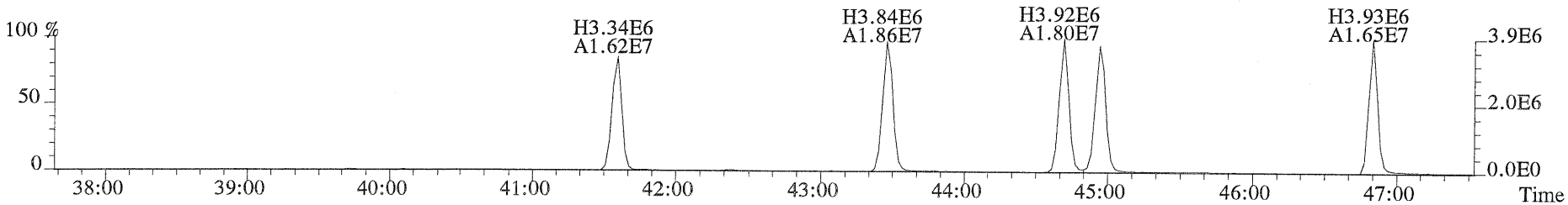
File:06JAN17Z #1-412 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



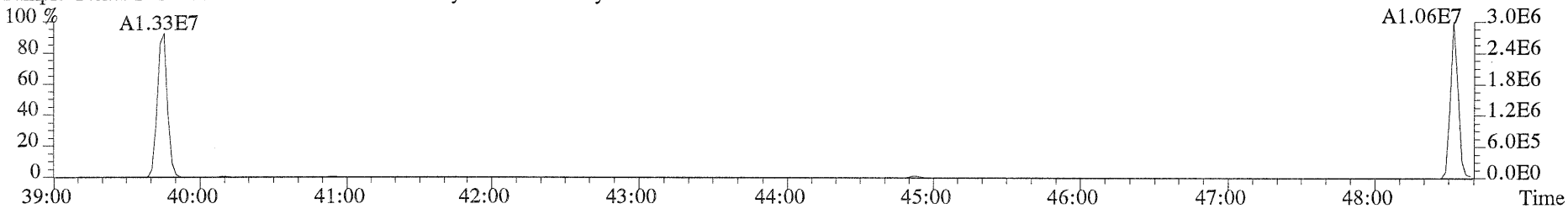
File:06JAN17Z #1-412 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



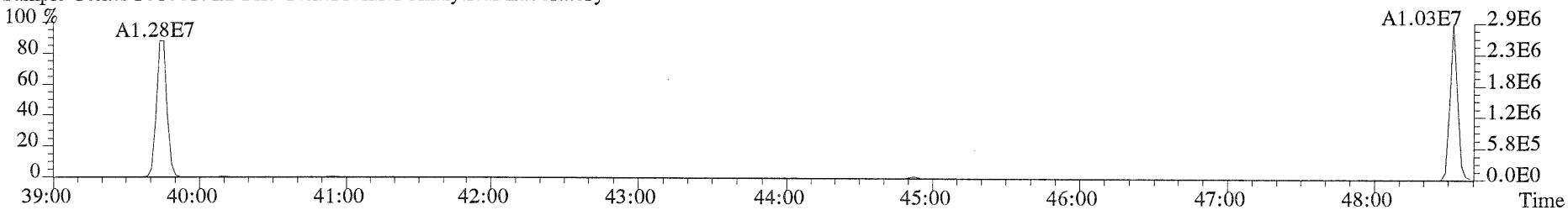
File:06JAN17Z #1-412 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



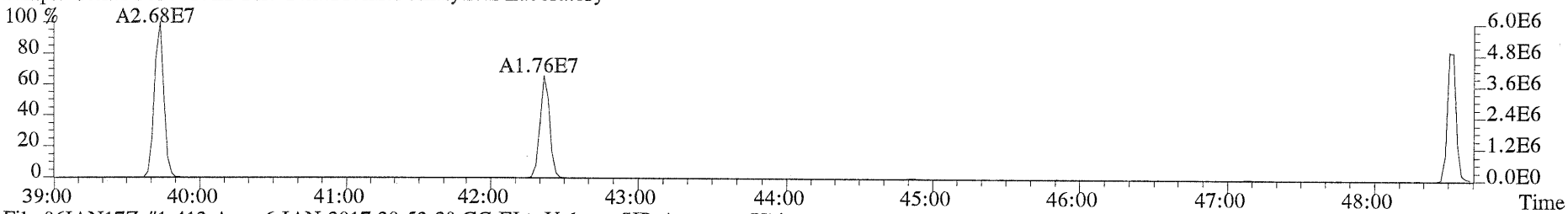
File:06JAN17Z #1-412 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



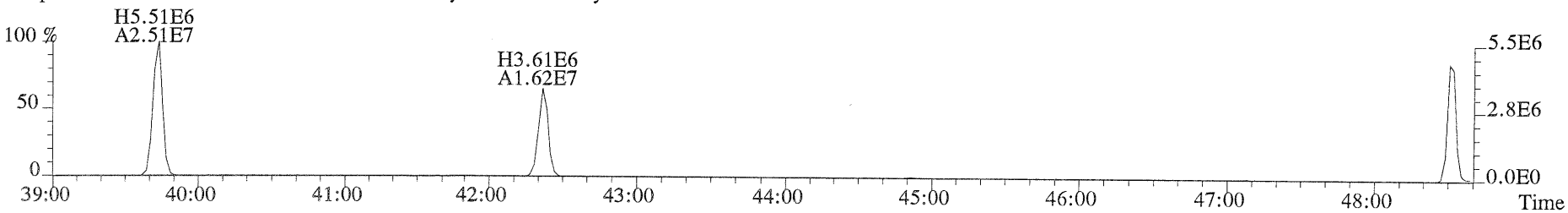
File:06JAN17Z #1-412 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



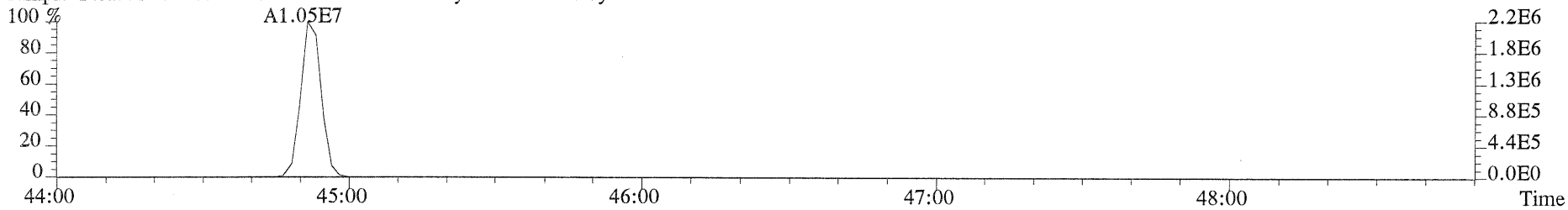
File:06JAN17Z #1-412 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



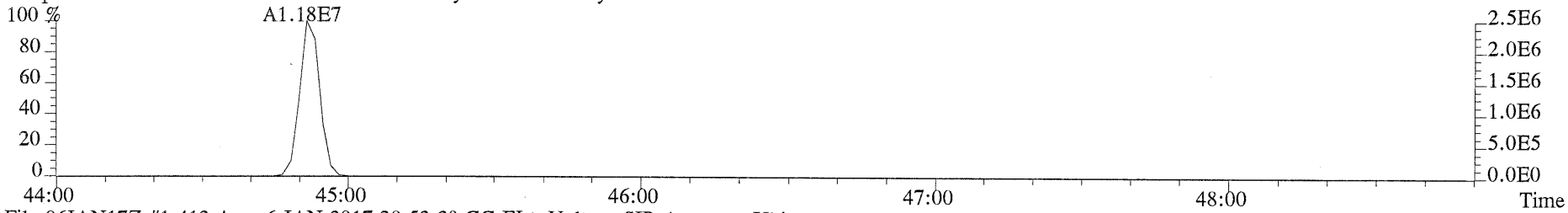
File:06JAN17Z #1-412 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



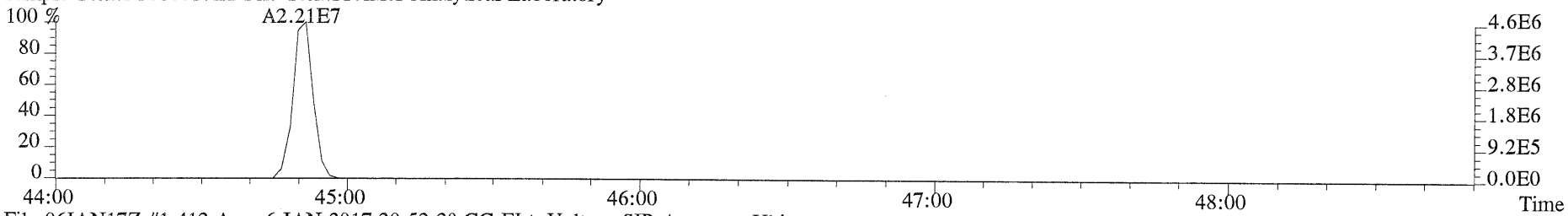
File:06JAN17Z #1-412 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



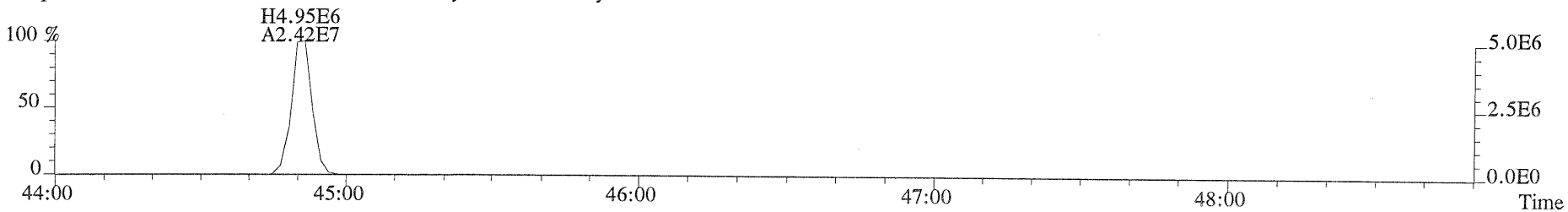
File:06JAN17Z #1-412 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



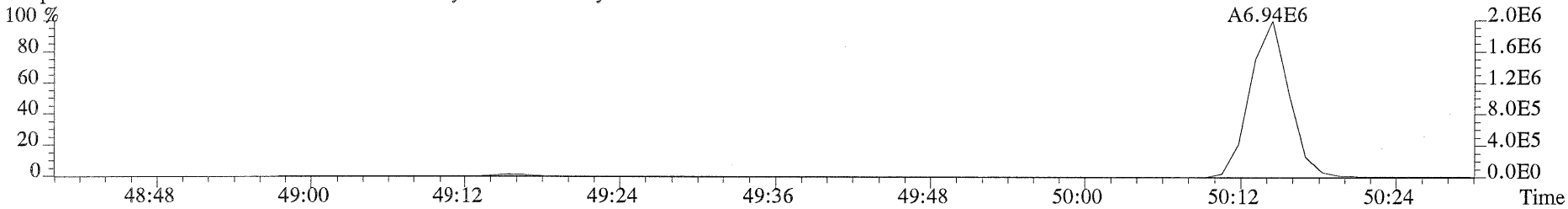
File:06JAN17Z #1-412 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



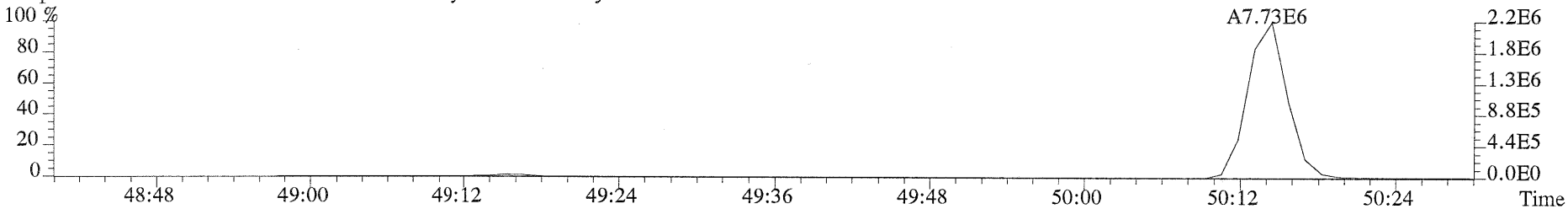
File:06JAN17Z #1-412 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



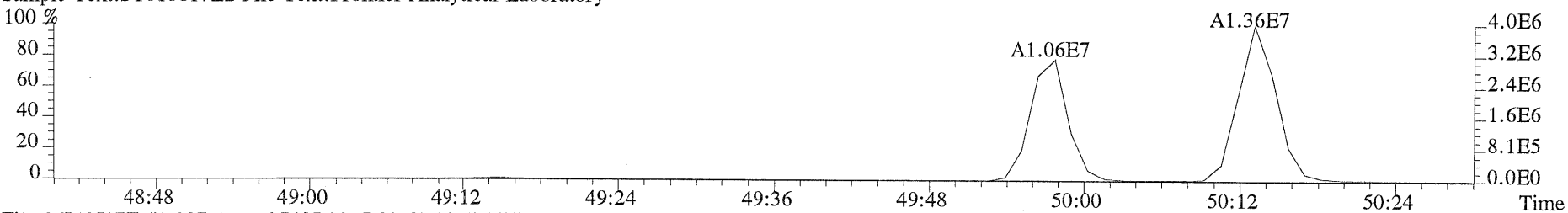
File:06JAN17Z #1-307 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



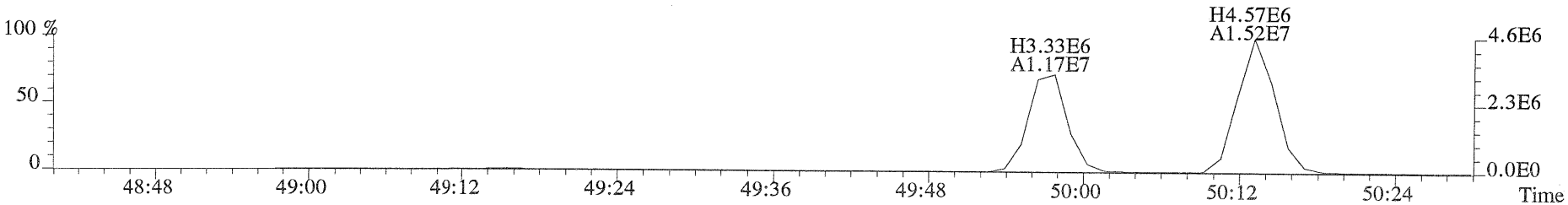
File:06JAN17Z #1-307 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



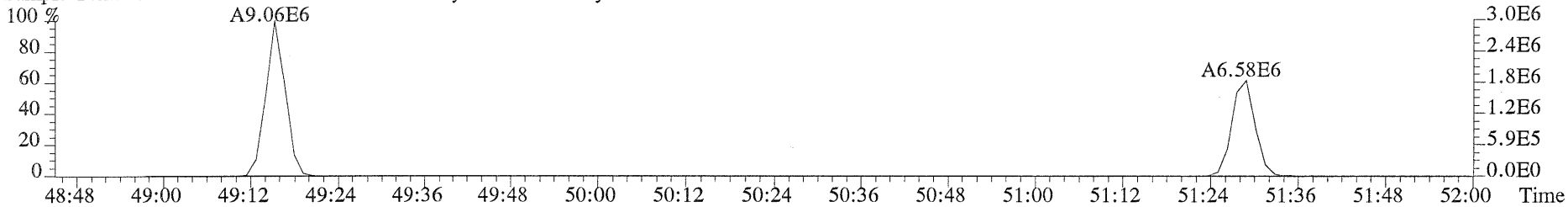
File:06JAN17Z #1-307 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



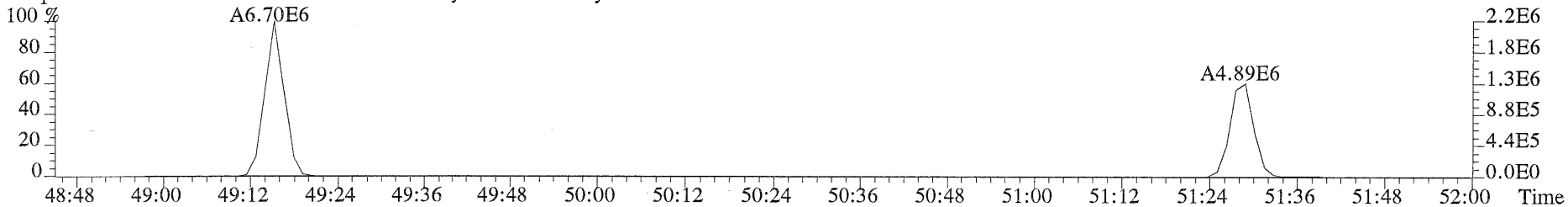
File:06JAN17Z #1-307 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



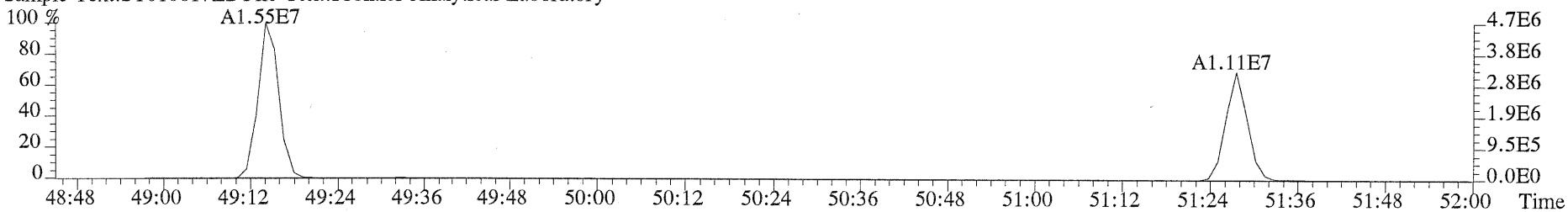
File:06JAN17Z #1-307 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



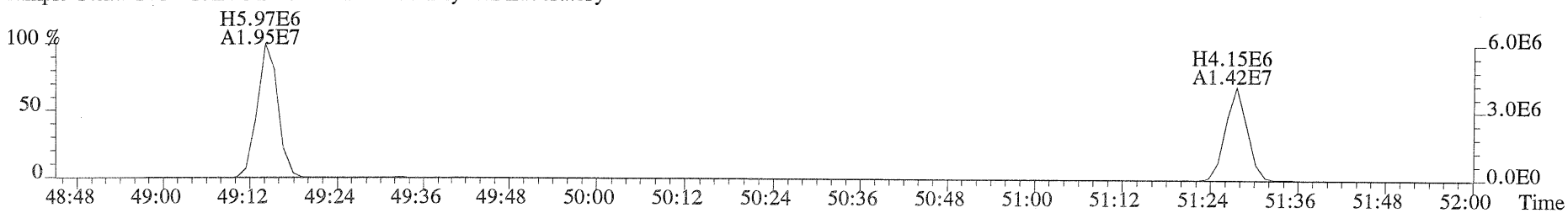
File:06JAN17Z #1-307 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



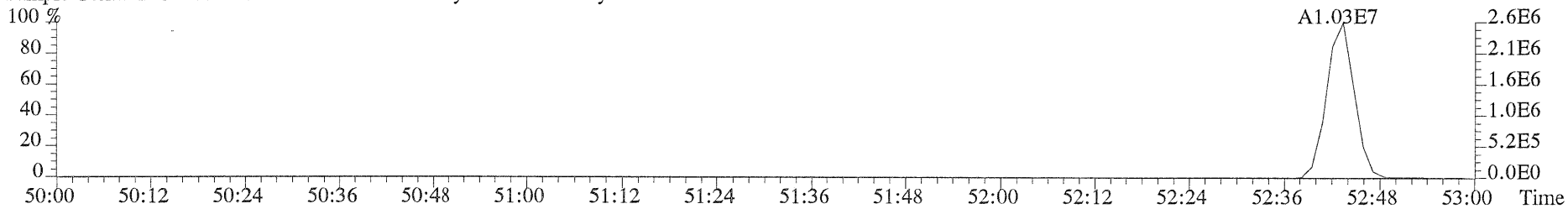
File:06JAN17Z #1-307 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



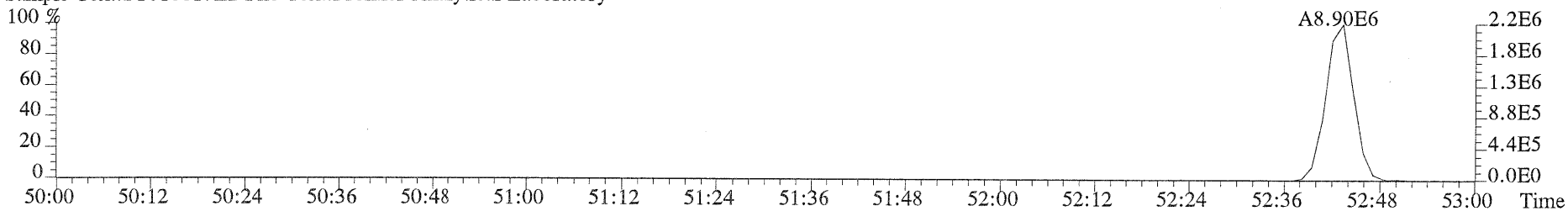
File:06JAN17Z #1-307 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



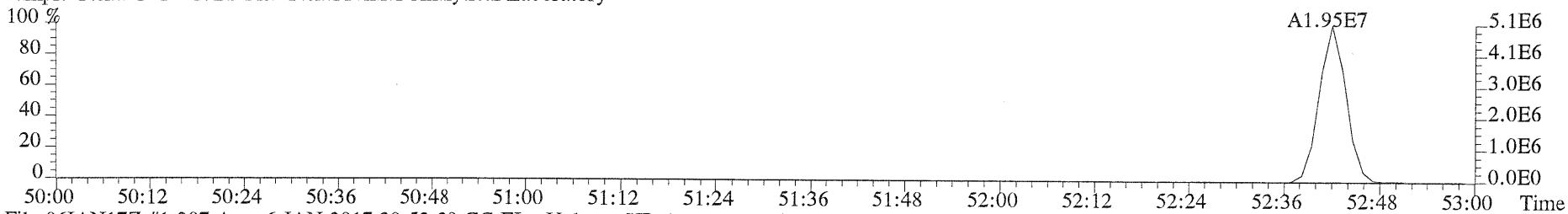
File:06JAN17Z #1-307 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



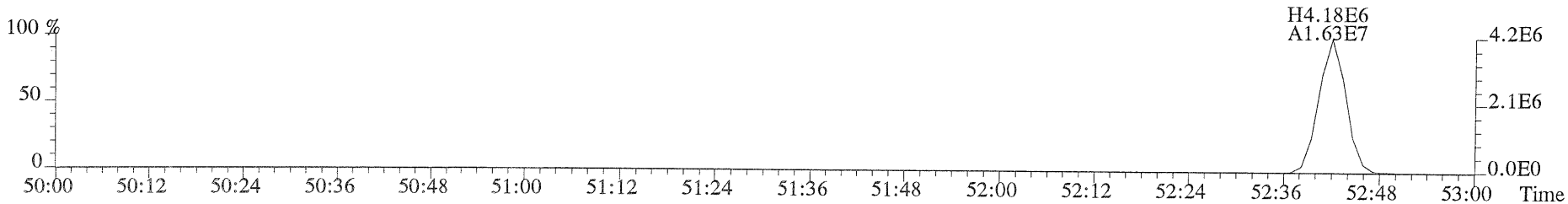
File:06JAN17Z #1-307 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory



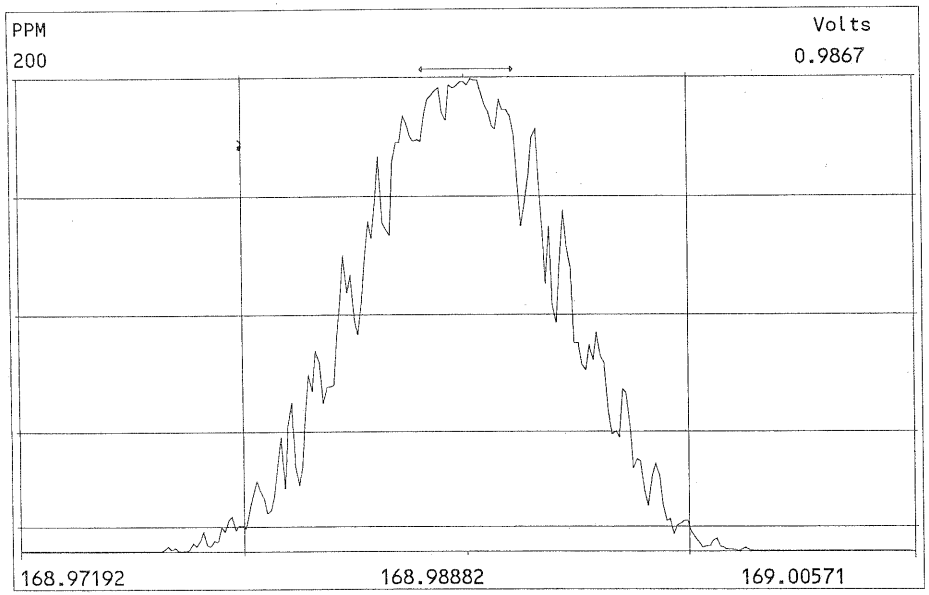
File:06JAN17Z #1-307 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory

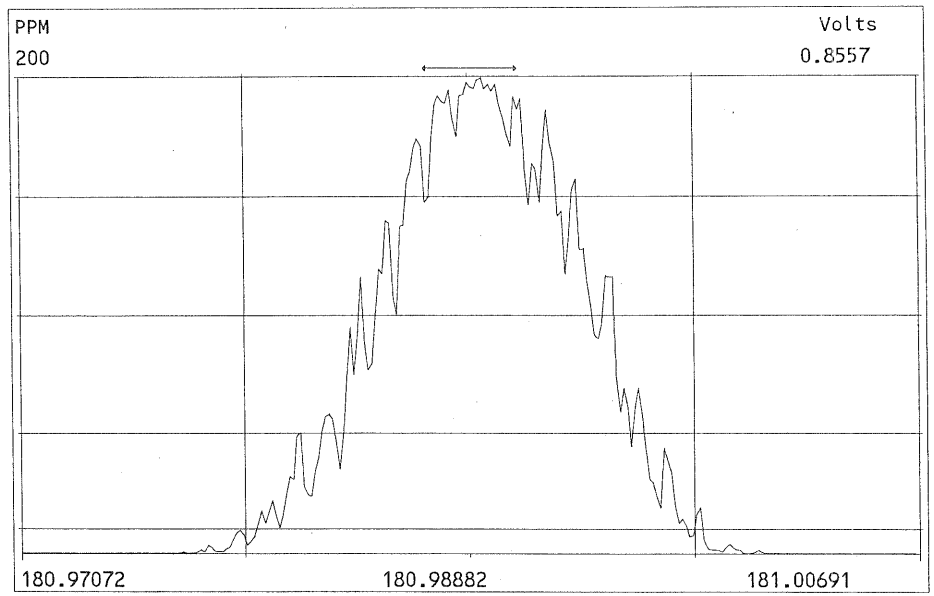


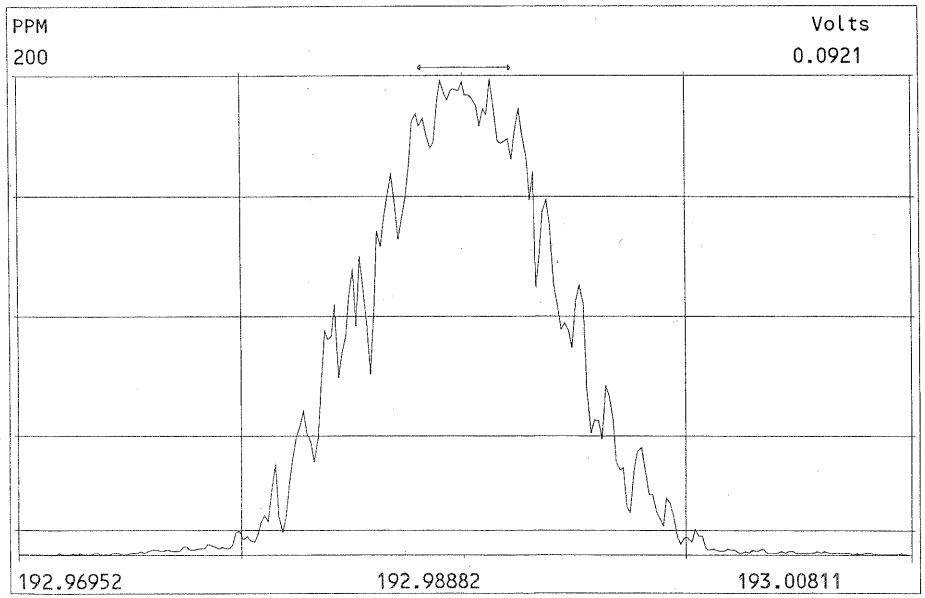
File:06JAN17Z #1-307 Acq: 6-JAN-2017 20:52:29 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010617Z2 File Text:Frontier Analytical Laboratory

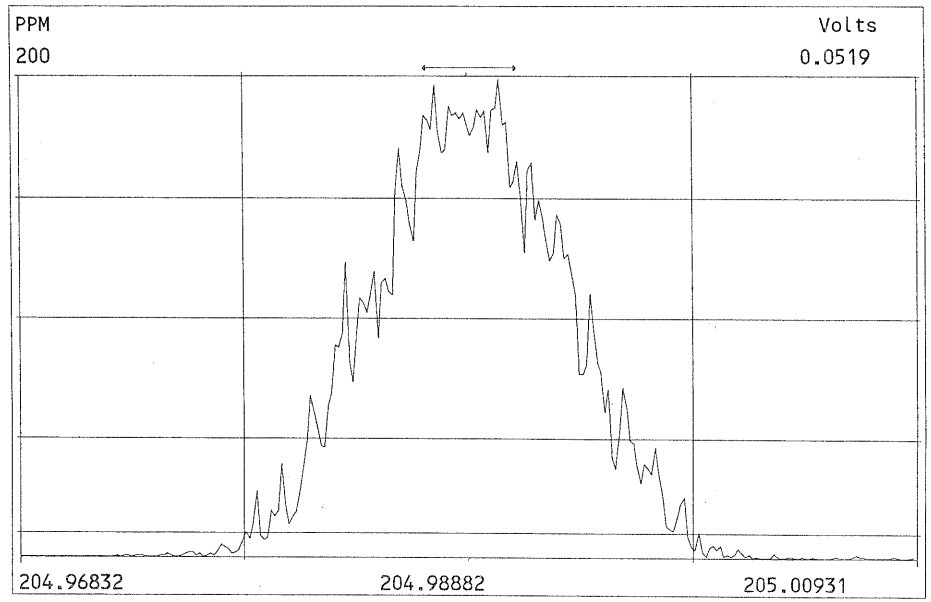


Peak Locate Examination: 6-JAN-2017:21:52 File:06JAN17Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK 52

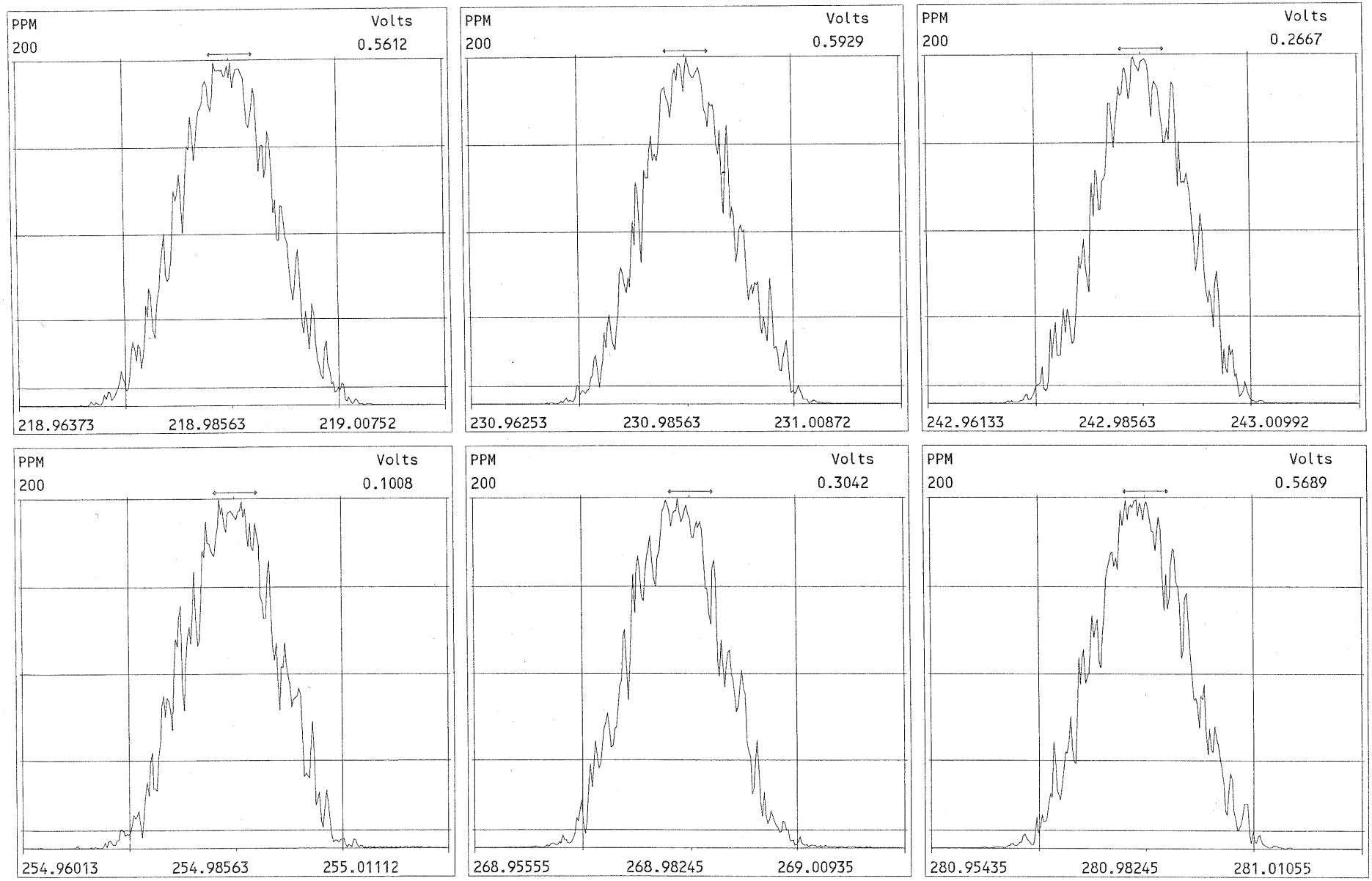




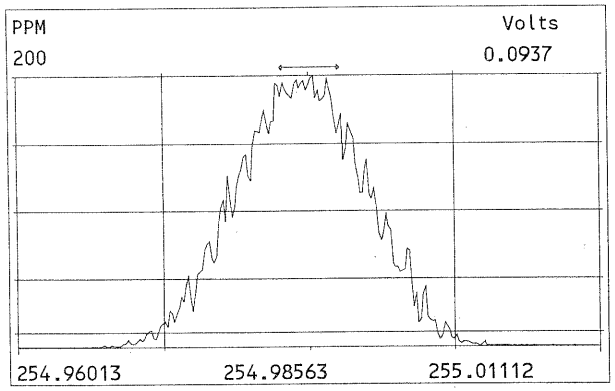


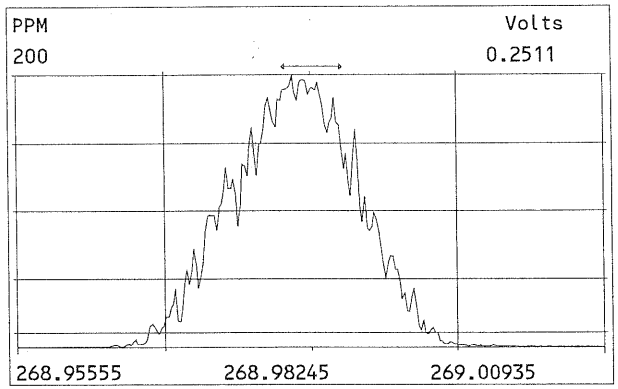


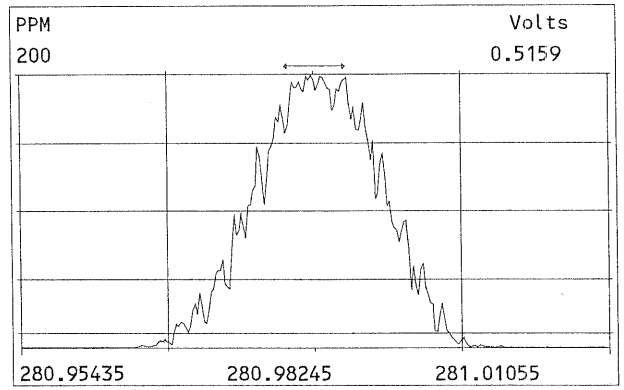
Peak Locate Examination: 6-JAN-2017:21:52 File:06JAN17Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK 52

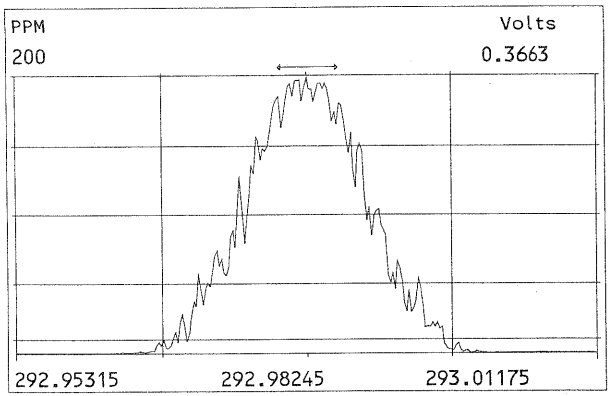


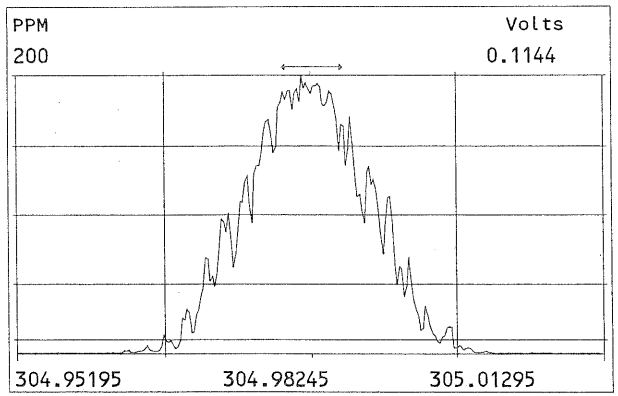
Peak Locate Examination: 6-JAN-2017:21:53 File:06JAN17Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK 52

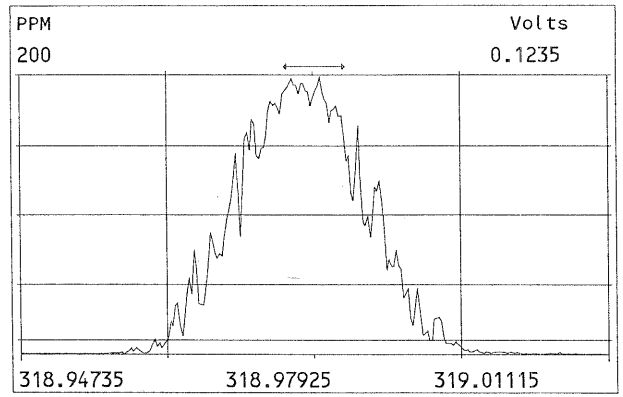


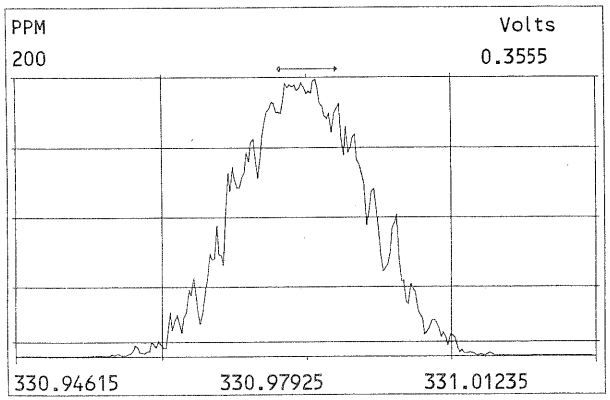


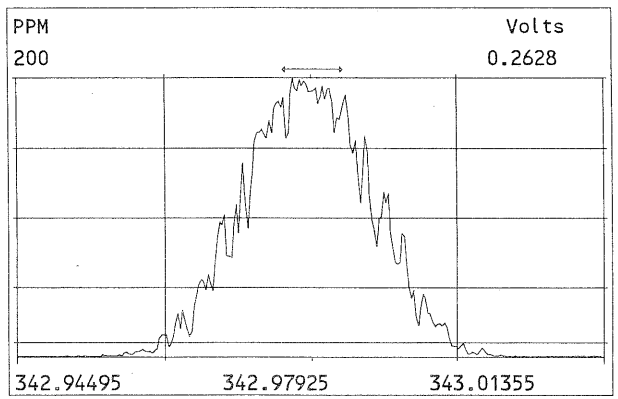




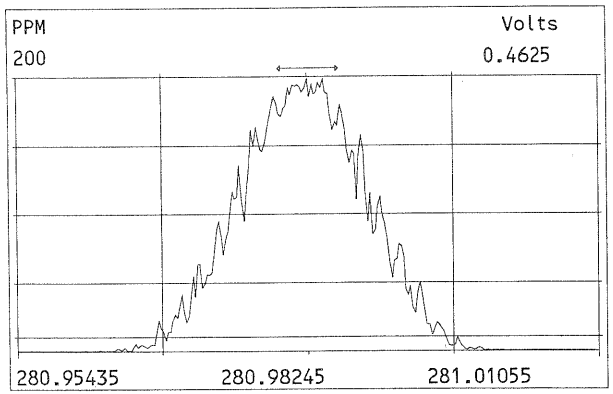


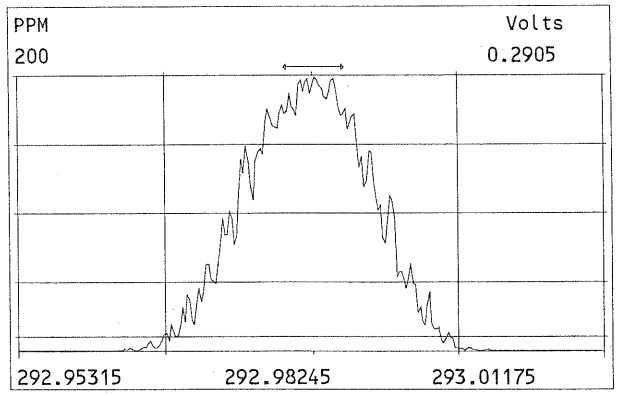


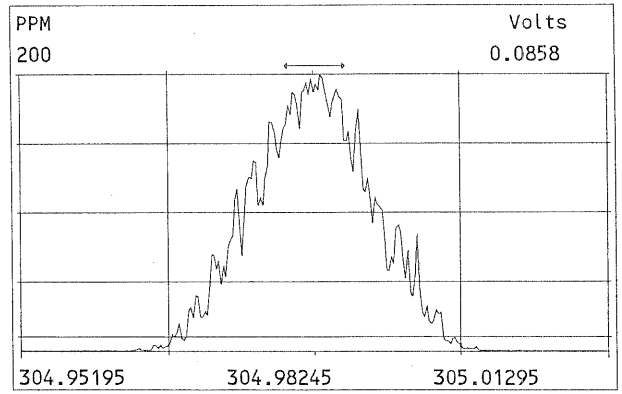


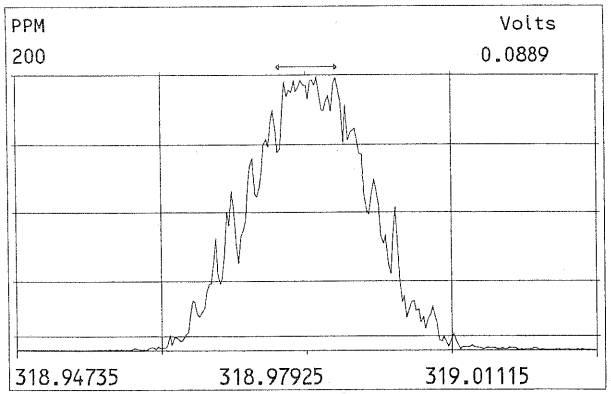


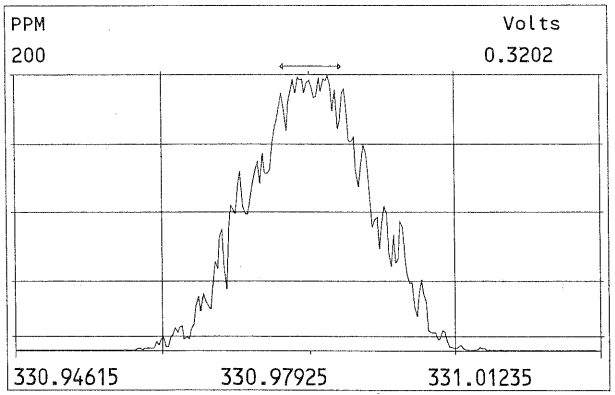
Peak Locate Examination: 6-JAN-2017:21:55 File:06JAN17Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK 52

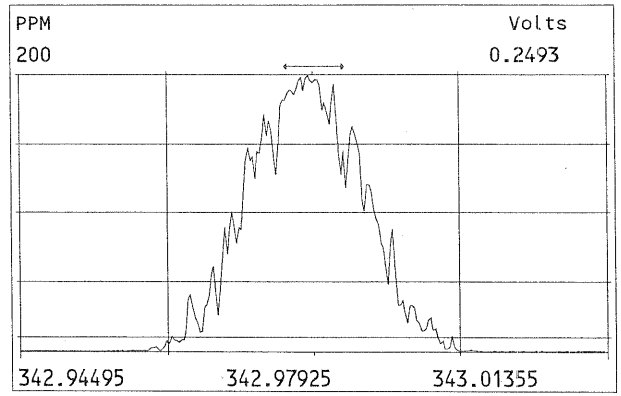


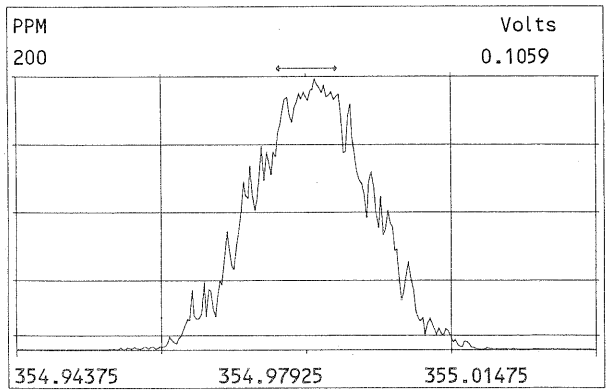


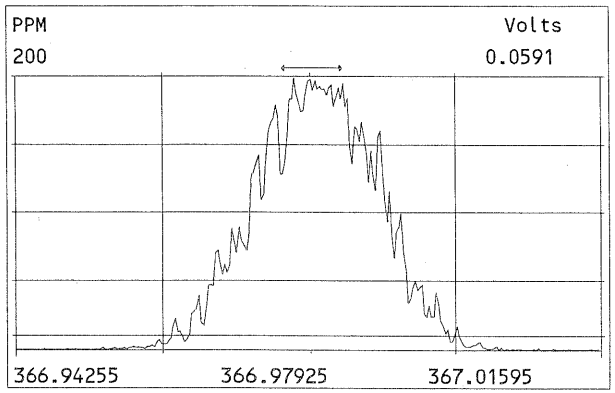


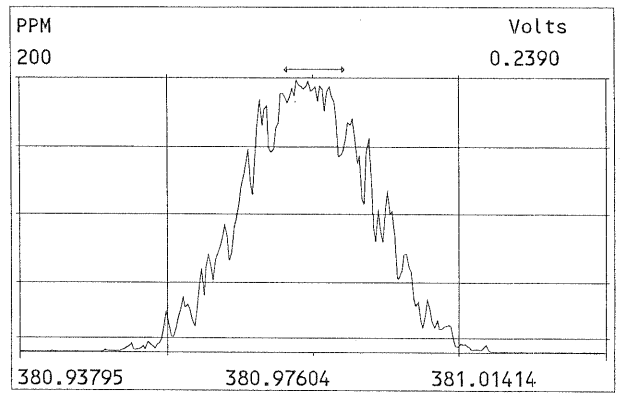




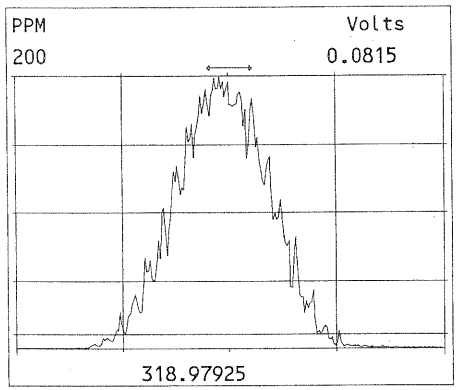


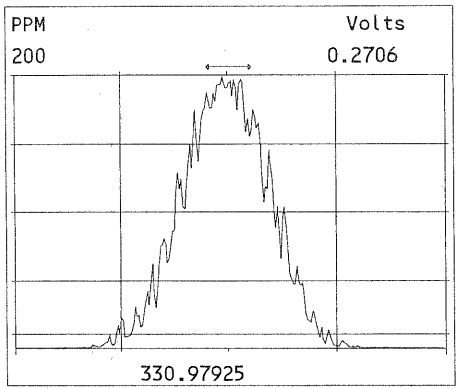


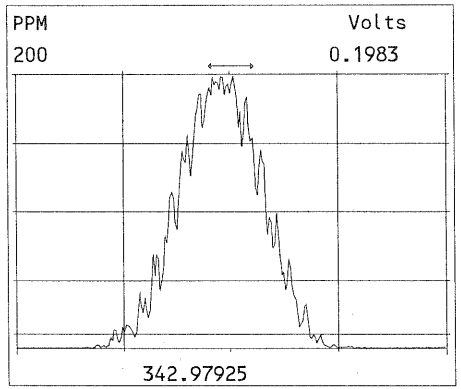


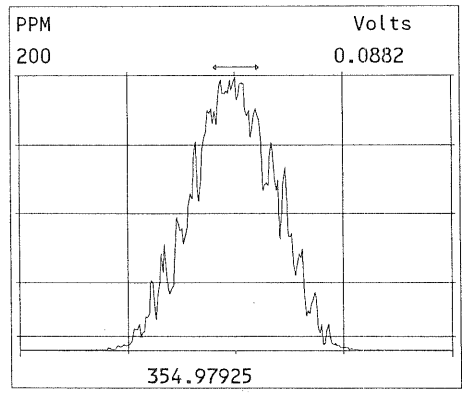


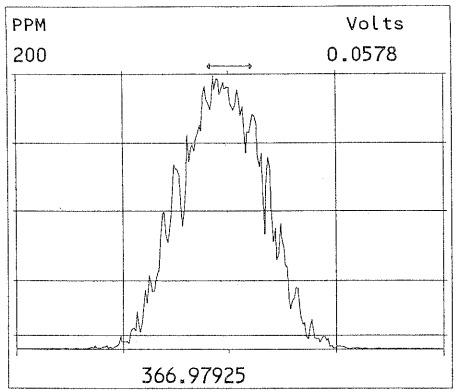
Peak Locate Examination: 6-JAN-2017:21:55 File:06JAN17Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK52

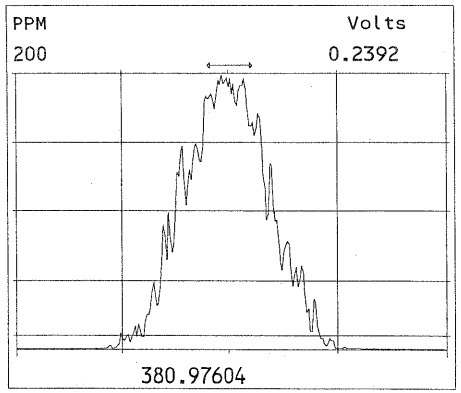


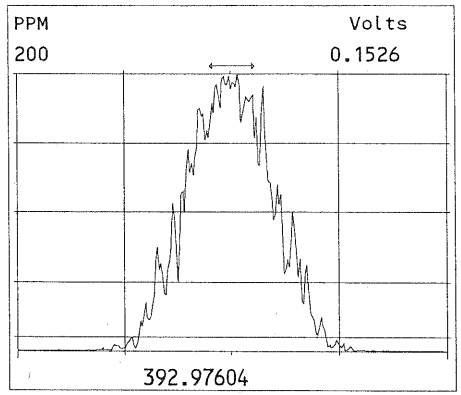


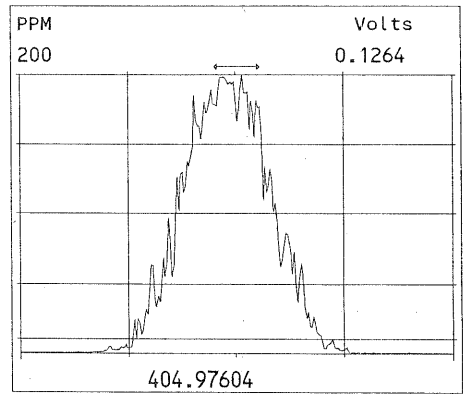


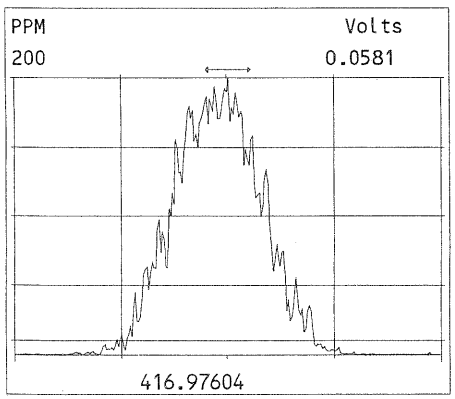


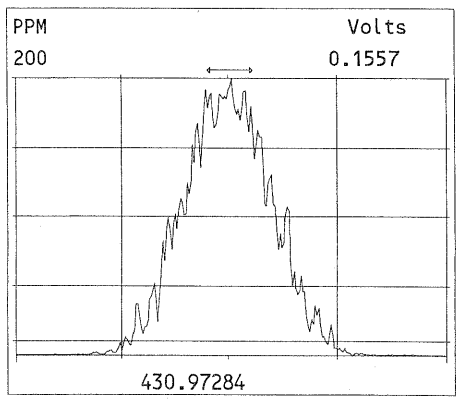


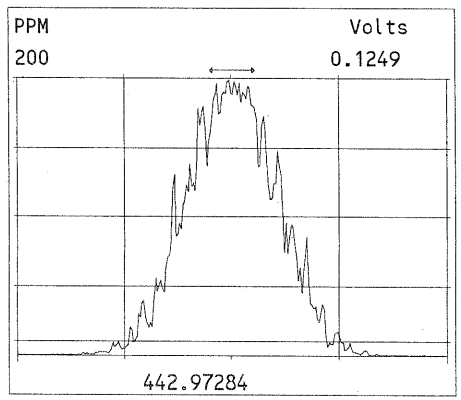
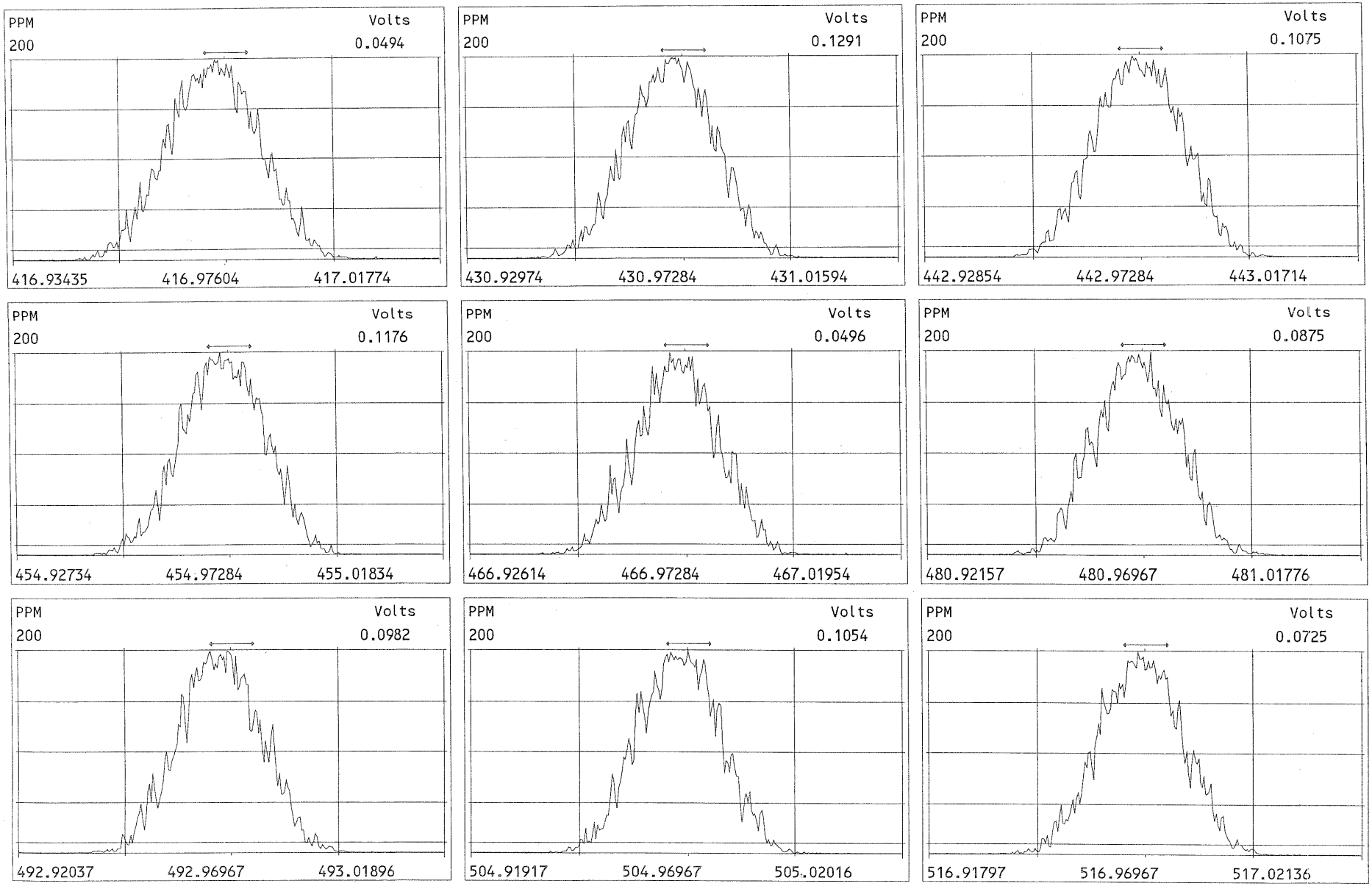












Peak Locate Examination: 6-JAN-2017:21:56 File:06JAN17Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK57