January 10, 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 number **10311**. This project corresponds to your **LDW ENR/AC Pilot Study** project. Six sediment samples were received on 12/01/2016 at Frontier Analytical Laboratory in good condition. These samples were extracted and analyzed following EPA Method 1668C for all 209 polychlorinated biphenyls (PCBs). The total PCB concentration is listed in the upper right hand corner of the first data page (Page 1 of 3) of each EPA Method 1668C sample. A turnaround time of twenty-five business days was provided for project **10311**.

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, the percent solids sheet, an extraction bench sheet and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms and chromatograms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms and chromatograms for each point of the initial calibration curve as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms and chromatograms for all beginning and ending calibration injections associated with the samples and QC. The enclosed results are specifically for the samples referenced in this report only. These results meet all National Environmental Laboratory Accreditation Program (NELAP) requirements and shall not be reproduced except in full. Frontier Analytical Laboratory's State of Oregon NELAP certificate number is **4041**. Our State of Washington ELAP certificate number is **C844**. This report and the 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 **10311**, 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: **10311**

Received on: **12/01/2016** Project Due: **12/23/2016** Storage: **F2**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
10311-001-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SU-ENR+AC-CA-CORE	EPA 1668 PCB	Sediment	11/26/2016	03:15 pm	11/26/2017
10311-002-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SU-ENR+AC-CB-CORE	EPA 1668 PCB	Sediment	11/26/2016	02:20 pm	11/26/2017
10311-003-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SU-ENR+AC-CC-CORE	EPA 1668 PCB	Sediment	11/26/2016	02:35 pm	11/26/2017
10311-004-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SU-ENR-CA-CORE	EPA 1668 PCB	Sediment	11/26/2016	05:15 pm	11/26/2017
10311-005-SA	1	LDW ENR/AC Pilot Study	LDW-BA-SU-ENR-CB-CORE	EPA 1668 PCB	Sediment	11/26/2016	05:30 pm	11/26/2017
10311-006-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SU-ENR-CC-CORE	EPA 1668 PCB	Sediment	11/26/2016	03:35 pm	11/26/2017

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EPA Method 1668
PCBs

FAL ID: 10311-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017
Total Conc: 0.0

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	1.31			PCB-51	ND	1.25		
PCB-2	ND	1.42			PCB-52	ND	0.965	C	69
PCB-3	ND	1.39			PCB-53	ND	1.27		
PCB-4	ND	1.89			PCB-54	ND	0.986		
PCB-5	ND	1.72			PCB-55	ND	0.922		
PCB-6	ND	1.68			PCB-56	ND	0.933	C	60
PCB-7	ND	1.65			PCB-57	ND	0.942		
PCB-8	ND	1.66			PCB-58	ND	0.884		
PCB-9	ND	1.67			PCB-59	-	-	C042	42
PCB-10	ND	1.90			PCB-60	-	-	C056	56
PCB-11	ND	1.73			PCB-61	ND	0.873	C	70
PCB-12	ND	1.77			PCB-62	ND	1.05		
PCB-13	ND	1.71			PCB-63	ND	0.951		
PCB-14	ND	1.68			PCB-64	-	-	C041	41/71/72
PCB-15	ND	1.65			PCB-65	ND	0.980		
PCB-16	ND	1.13			PCB-66	ND	0.918	C	76
PCB-17	ND	1.21			PCB-67	ND	0.999		
PCB-18	ND	1.30			PCB-68	ND	0.890		
PCB-19	ND	1.32			PCB-69	-	-	C052	52
PCB-20	ND	0.963	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	0.967			PCB-72	-	-	C041	41/64/71
PCB-23	ND	1.01			PCB-73	ND	1.09		
PCB-24	ND	0.919			PCB-74	ND	0.912		
PCB-25	ND	0.841			PCB-75	-	-	C048	48
PCB-26	ND	1.02			PCB-76	-	-	C066	66
PCB-27	ND	0.919			PCB-77	ND	0.927		
PCB-28	ND	0.908			PCB-78	ND	0.952		
PCB-29	ND	0.991			PCB-79	ND	0.909		
PCB-30	ND	0.907			PCB-80	ND	0.825		
PCB-31	ND	0.960			PCB-81	ND	0.925		
PCB-32	ND	1.01			PCB-82	ND	2.39		
PCB-33	-	-	C020	20/21	PCB-83	ND	1.79	C	112
PCB-34	ND	1.16			PCB-84	ND	1.99	C	92
PCB-35	ND	1.07			PCB-85	ND	1.65	C	116
PCB-36	ND	1.01			PCB-86	ND	2.05		
PCB-37	ND	0.945			PCB-87	ND	1.57	C	117/125
PCB-38	ND	0.998			PCB-88	ND	1.38	C	91
PCB-39	ND	1.01			PCB-89	ND	2.07		
PCB-40	ND	1.65			PCB-90	ND	1.81	C	101
PCB-41	ND	0.957	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	1.04	C	59	PCB-92	-	-	C084	84
PCB-43	ND	1.28	C	49	PCB-93	ND	1.58		
PCB-44	ND	1.41			PCB-94	ND	1.56		
PCB-45	ND	1.43			PCB-95	ND	1.50		
PCB-46	ND	1.52			PCB-96	ND	1.09		
PCB-47	ND	1.03			PCB-97	ND	1.65		
PCB-48	ND	1.02	C	75	PCB-98	ND	1.22	C	102
PCB-49	-	-	C043	43	PCB-99	ND	1.62		
PCB-50	ND	1.27			PCB-100	ND	1.29		

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EPA Method 1668
PCBs

FAL ID: 10311-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	2.07		
PCB-102	-	-	C098	98	PCB-152	ND	1.19		
PCB-103	ND	1.28			PCB-153	ND	1.66		
PCB-104	ND	1.02			PCB-154	ND	1.34		
PCB-105	ND	1.21			PCB-155	ND	1.06		
PCB-106	ND	1.31	C	118	PCB-156	ND	1.61		
PCB-107	ND	1.19	C	108	PCB-157	ND	1.44		
PCB-108	-	-	C107	107	PCB-158	ND	1.49	C	160
PCB-109	ND	1.49			PCB-159	ND	1.45		
PCB-110	ND	1.36			PCB-160	-	-	C158	158
PCB-111	ND	1.30	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.58			PCB-163	-	-	C138	138/164
PCB-114	ND	1.28			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	1.55		
PCB-117	-	-	C087	87/125	PCB-167	ND	1.58		
PCB-118	-	-	C106	106	PCB-168	ND	1.53		
PCB-119	ND	1.39			PCB-169	ND	1.53		
PCB-120	ND	1.34			PCB-170	ND	1.55		
PCB-121	ND	1.11			PCB-171	ND	1.45		
PCB-122	ND	1.19			PCB-172	ND	1.53		
PCB-123	ND	1.12			PCB-173	ND	1.59		
PCB-124	ND	1.33			PCB-174	ND	1.40		
PCB-125	-	-	C087	87/117	PCB-175	ND	1.39		
PCB-126	ND	1.42			PCB-176	ND	1.05		
PCB-127	ND	1.32			PCB-177	ND	1.52		
PCB-128	ND	1.72	C	162	PCB-178	ND	1.44		
PCB-129	ND	2.38			PCB-179	ND	1.03		
PCB-130	ND	2.03			PCB-180	ND	1.15		
PCB-131	ND	1.97	C	133	PCB-181	ND	1.37		
PCB-132	ND	1.78	C	161	PCB-182	ND	1.26	C	187
PCB-133	-	-	C131	131	PCB-183	ND	1.28		
PCB-134	ND	2.02	C	143	PCB-184	ND	0.981		
PCB-135	ND	1.95			PCB-185	ND	1.37		
PCB-136	ND	1.19			PCB-186	ND	1.05		
PCB-137	ND	2.15			PCB-187	-	-	C182	182
PCB-138	ND	1.47	C	163/164	PCB-188	ND	1.03		
PCB-139	ND	1.84	C	149	PCB-189	ND	1.05		
PCB-140	ND	1.90			PCB-190	ND	1.13		
PCB-141	ND	1.90			PCB-191	ND	1.09		
PCB-142	ND	2.24			PCB-192	ND	1.17		
PCB-143	-	-	C134	134	PCB-193	ND	1.09		
PCB-144	ND	2.07			PCB-194	ND	0.937		
PCB-145	ND	1.21			PCB-195	ND	1.01		
PCB-146	ND	1.64	C	165	PCB-196	ND	1.24	C	203
PCB-147	ND	1.83			PCB-197	ND	0.955		
PCB-148	ND	1.63			PCB-198	ND	1.29		
PCB-149	-	-	C139	139	PCB-199	ND	1.41		
PCB-150	ND	1.16			PCB-200	ND	0.953		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10311-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	0.976		
PCB-202	ND	0.983		
PCB-203	-	-	C196	196
PCB-204	ND	0.964		
PCB-205	ND	0.720		
PCB-206	ND	0.539		
PCB-207	ND	0.397		
PCB-208	ND	0.352		
PCB-209	ND	0.504		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	98.1	5.00 - 145	
13C-PCB-3	93.2	5.00 - 145	
13C-PCB-4	95.8	5.00 - 145	
13C-PCB-15	92.3	5.00 - 145	
13C-PCB-19	92.7	5.00 - 145	
13C-PCB-37	93.7	5.00 - 145	
13C-PCB-54	102	5.00 - 145	
13C-PCB-77	93.2	10.0 - 145	
13C-PCB-81	93.4	10.0 - 145	
13C-PCB-104	96.2	10.0 - 145	
13C-PCB-105	99.2	10.0 - 145	
13C-PCB-114	101	10.0 - 145	
13C-PCB-118	100	10.0 - 145	
13C-PCB-123	99.4	10.0 - 145	
13C-PCB-126	94.4	10.0 - 145	
13C-PCB-155	98.7	10.0 - 145	
13C-PCB-156	94.2	10.0 - 145	
13C-PCB-157	95.9	10.0 - 145	
13C-PCB-167	94.8	10.0 - 145	
13C-PCB-169	87.8	10.0 - 145	
13C-PCB-188	101	10.0 - 145	
13C-PCB-189	93.8	10.0 - 145	
13C-PCB-202	100	10.0 - 145	
13C-PCB-205	96.9	10.0 - 145	
13C-PCB-206	98.9	10.0 - 145	
13C-PCB-208	103	10.0 - 145	
13C-PCB-209	98.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	103	5.00 - 145	
13C-PCB-111	100	10.0 - 145	
13C-PCB-178	98.6	10.0 - 145	

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

Analyst: _____

Date: 1/10/17

Reviewed By: _____

Date: 1/10/17

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EPA Method 1668
PCBs

FAL ID: 10311-001-OPR
Client ID: OPR
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: ng/ml

Acquired: 01-05-2017

Compound	% Recovery	QC Limits	Qual
PCB-1	107	60.0 - 135	
PCB-3	107	60.0 - 135	
PCB-4	94.8	60.0 - 135	
PCB-15	104	60.0 - 135	
PCB-19	108	60.0 - 135	
PCB-37	98.8	60.0 - 135	
PCB-54	101	60.0 - 135	
PCB-77	105	60.0 - 135	
PCB-81	101	60.0 - 135	
PCB-104	105	60.0 - 135	
PCB-105	99.2	60.0 - 135	
PCB-114	106	60.0 - 135	
PCB-118	112	60.0 - 135	
PCB-123	89.0	60.0 - 135	
PCB-126	98.6	60.0 - 135	
PCB-155	105	60.0 - 135	
PCB-156	102	60.0 - 135	
PCB-157	98.8	60.0 - 135	
PCB-167	107	60.0 - 135	
PCB-169	106	60.0 - 135	
PCB-188	102	60.0 - 135	
PCB-189	105	60.0 - 135	
PCB-202	110	60.0 - 135	
PCB-205	103	60.0 - 135	
PCB-206	102	60.0 - 135	
PCB-208	101	60.0 - 135	
PCB-209	103	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	94.9	15.0 - 145	
13C-PCB-3	91.8	15.0 - 145	
13C-PCB-4	94.0	15.0 - 145	
13C-PCB-15	92.3	15.0 - 145	
13C-PCB-19	92.1	15.0 - 145	
13C-PCB-37	99.9	15.0 - 145	
13C-PCB-54	105	15.0 - 145	
13C-PCB-77	94.5	40.0 - 145	
13C-PCB-81	93.4	40.0 - 145	
13C-PCB-104	99.0	40.0 - 145	
13C-PCB-105	96.4	40.0 - 145	
13C-PCB-114	97.9	40.0 - 145	
13C-PCB-118	94.7	40.0 - 145	
13C-PCB-123	95.8	40.0 - 145	
13C-PCB-126	95.9	40.0 - 145	
13C-PCB-155	98.3	40.0 - 145	
13C-PCB-156	97.5	40.0 - 145	
13C-PCB-157	94.0	40.0 - 145	
13C-PCB-167	97.0	40.0 - 145	
13C-PCB-169	91.7	40.0 - 145	
13C-PCB-188	98.4	40.0 - 145	
13C-PCB-189	93.2	40.0 - 145	
13C-PCB-202	99.9	40.0 - 145	
13C-PCB-205	96.3	40.0 - 145	
13C-PCB-206	96.3	40.0 - 145	
13C-PCB-208	99.6	40.0 - 145	
13C-PCB-209	97.9	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	98.3	15.0 - 145	
13C-PCB-111	91.8	40.0 - 145	
13C-PCB-178	89.1	40.0 - 145	

Analyst: _____

Date: 1/10/2017

Reviewed By: _____

Date: 1/10/2017

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EPA Method 1668
PCBs

FAL ID: 10311-001-SA
Client ID: LDW-BA-SU-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.05 g
% Solids: 51.74

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017
Total Conc: 151000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	56.8	-			PCB-51	147	-		
PCB-2	11.1	-			PCB-52	3460	-	C	69
PCB-3	45.6	-			PCB-53	448	-		
PCB-4	214	-			PCB-54	7.32	-		
PCB-5	78.4	-			PCB-55	78.6	-		
PCB-6	303	-			PCB-56	2160	-	C	60
PCB-7	57.7	-			PCB-57	19.3	-		
PCB-8	1100	-			PCB-58	20.0	-		
PCB-9	51.7	-			PCB-59	-	-	C042	42
PCB-10	40.9	-			PCB-60	-	-	C056	56
PCB-11	18.8	-			PCB-61	4770	-	C	70
PCB-12	26.2	-			PCB-62	ND	1.32		
PCB-13	88.5	-			PCB-63	187	-		
PCB-14	ND	1.53			PCB-64	-	-	C041	41/71/72
PCB-15	550	-			PCB-65	ND	1.22		
PCB-16	622	-			PCB-66	4130	-	C	76
PCB-17	1070	-			PCB-67	154	-		
PCB-18	2210	-			PCB-68	15.7	-		
PCB-19	175	-			PCB-69	-	-	C052	52
PCB-20	2640	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	1550	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	1.76			PCB-73	ND	1.37		
PCB-24	58.8	-			PCB-74	2120	-		
PCB-25	483	-			PCB-75	-	-	C048	48
PCB-26	993	-			PCB-76	-	-	C066	66
PCB-27	122	-			PCB-77	345	-		
PCB-28	5140	-			PCB-78	18.8	-		
PCB-29	37.4	-			PCB-79	66.6	-		
PCB-30	ND	1.43			PCB-80	ND	1.03		
PCB-31	4440	-			PCB-81	101	-		
PCB-32	781	-			PCB-82	798	-		
PCB-33	-	-	C020	20/21	PCB-83	336	-	C	112
PCB-34	51.7	-			PCB-84	3090	-	C	92
PCB-35	67.8	-			PCB-85	994	-	C	116
PCB-36	ND	1.76			PCB-86	ND	1.85		
PCB-37	896	-			PCB-87	2470	-	C	117/125
PCB-38	22.0	-			PCB-88	1890	-	C	91
PCB-39	15.6	-			PCB-89	80.0	-		
PCB-40	294	-			PCB-90	7780	-	C	101
PCB-41	1360	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	595	-	C	59	PCB-92	-	-	C084	84
PCB-43	2620	-	C	49	PCB-93	ND	2.84		
PCB-44	2000	-			PCB-94	68.1	-		
PCB-45	437	-			PCB-95	12300	-		
PCB-46	168	-			PCB-96	44.3	-		
PCB-47	646	-			PCB-97	1850	-		
PCB-48	523	-	C	75	PCB-98	ND	2.19	C	102
PCB-49	-	-	C043	43	PCB-99	3040	-		
PCB-50	13.7	-			PCB-100	60.8	-		

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EPA Method 1668
PCBs

FAL ID: 10311-001-SA
Client ID: LDW-BA-SU-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.05 g
% Solids: 51.74

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	1450	-		
PCB-102	-	-	C098	98	PCB-152	7.99	-		
PCB-103	112	-			PCB-153	6490	-		
PCB-104	ND	1.84			PCB-154	114	-		
PCB-105	2230	-			PCB-155	ND	1.16		
PCB-106	6290	-	C	118	PCB-156	784	-		
PCB-107	452	-	C	108	PCB-157	160	-		
PCB-108	-	-	C107	107	PCB-158	811	-	C	160
PCB-109	ND	1.35			PCB-159	42.7	-		
PCB-110	6910	-			PCB-160	-	-	C158	158
PCB-111	108	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.43			PCB-163	-	-	C138	138/164
PCB-114	152	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	32.3	-		
PCB-117	-	-	C087	87/125	PCB-167	309	-		
PCB-118	-	-	C106	106	PCB-168	12.6	-		
PCB-119	191	-			PCB-169	ND	1.23		
PCB-120	ND	1.21			PCB-170	1530	-		
PCB-121	ND	2.00			PCB-171	508	-		
PCB-122	79.3	-			PCB-172	290	-		
PCB-123	95.0	-			PCB-173	40.2	-		
PCB-124	274	-			PCB-174	1630	-		
PCB-125	-	-	C087	87/117	PCB-175	71.1	-		
PCB-126	26.9	-			PCB-176	236	-		
PCB-127	ND	1.27			PCB-177	1000	-		
PCB-128	1200	-	C	162	PCB-178	348	-		
PCB-129	399	-			PCB-179	674	-		
PCB-130	465	-			PCB-180	2860	-		
PCB-131	234	-	C	133	PCB-181	ND	1.28		
PCB-132	2120	-	C	161	PCB-182	1900	-	C	187
PCB-133	-	-	C131	131	PCB-183	976	-		
PCB-134	412	-	C	143	PCB-184	ND	0.916		
PCB-135	872	-			PCB-185	172	-		
PCB-136	980	-			PCB-186	ND	0.985		
PCB-137	457	-			PCB-187	-	-	C182	182
PCB-138	6600	-	C	163/164	PCB-188	3.26	-	J	
PCB-139	5690	-	C	149	PCB-189	62.8	-		
PCB-140	55.4	-			PCB-190	314	-		
PCB-141	1220	-			PCB-191	67.0	-		
PCB-142	ND	1.85			PCB-192	ND	1.09		
PCB-143	-	-	C134	134	PCB-193	183	-		
PCB-144	340	-			PCB-194	705	-		
PCB-145	3.40	-	J		PCB-195	313	-		
PCB-146	1030	-	C	165	PCB-196	762	-	C	203
PCB-147	143	-			PCB-197	28.9	-		
PCB-148	ND	1.79			PCB-198	36.1	-		
PCB-149	-	-	C139	139	PCB-199	701	-		
PCB-150	13.9	-			PCB-200	87.6	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10311-001-SA
Client ID: LDW-BA-SU-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.05 g
% Solids: 51.74

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017

Compound	Conc	DL	Qual	Coeluters
PCB-201	101	-		
PCB-202	146	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.47		
PCB-205	37.0	-		
PCB-206	313	-		
PCB-207	44.0	-		
PCB-208	85.0	-		
PCB-209	125	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	92.3	5.00 - 145	
13C-PCB-3	94.9	5.00 - 145	
13C-PCB-4	96.2	5.00 - 145	
13C-PCB-15	92.3	5.00 - 145	
13C-PCB-19	82.7	5.00 - 145	
13C-PCB-37	91.1	5.00 - 145	
13C-PCB-54	129	5.00 - 145	
13C-PCB-77	105	10.0 - 145	
13C-PCB-81	105	10.0 - 145	
13C-PCB-104	67.8	10.0 - 145	
13C-PCB-105	110	10.0 - 145	
13C-PCB-114	114	10.0 - 145	
13C-PCB-118	112	10.0 - 145	
13C-PCB-123	110	10.0 - 145	
13C-PCB-126	115	10.0 - 145	
13C-PCB-155	93.2	10.0 - 145	
13C-PCB-156	107	10.0 - 145	
13C-PCB-157	103	10.0 - 145	
13C-PCB-167	104	10.0 - 145	
13C-PCB-169	98.2	10.0 - 145	
13C-PCB-188	97.8	10.0 - 145	
13C-PCB-189	84.5	10.0 - 145	
13C-PCB-202	92.5	10.0 - 145	
13C-PCB-205	96.6	10.0 - 145	
13C-PCB-206	86.9	10.0 - 145	
13C-PCB-208	91.6	10.0 - 145	
13C-PCB-209	80.0	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	144	5.00 - 145	
13C-PCB-111	99.7	10.0 - 145	
13C-PCB-178	96.2	10.0 - 145	

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

Analyst: _____

Date: 1/10/2017

Reviewed By: _____

Date: 1/10/2017

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EPA Method 1668
PCBs

FAL ID: 10311-002-SA
Client ID: LDW-BA-SU-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.04 g
% Solids: 55.87

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017
Total Conc: 210000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	65.7	-			PCB-51	233	-		
PCB-2	7.22	-			PCB-52	5340	-	C	69
PCB-3	38.2	-			PCB-53	716	-		
PCB-4	322	-			PCB-54	11.8	-		
PCB-5	92.0	-			PCB-55	121	-		
PCB-6	474	-			PCB-56	3740	-	C	60
PCB-7	85.7	-			PCB-57	23.9	-		
PCB-8	1710	-			PCB-58	20.4	-		
PCB-9	84.5	-			PCB-59	-	-	C042	42
PCB-10	49.1	-			PCB-60	-	-	C056	56
PCB-11	28.7	-			PCB-61	7210	-	C	70
PCB-12	87.1	-			PCB-62	ND	1.15		
PCB-13	79.5	-			PCB-63	270	-		
PCB-14	ND	1.32			PCB-64	-	-	C041	41/71/72
PCB-15	897	-			PCB-65	ND	1.07		
PCB-16	1180	-			PCB-66	6000	-	C	76
PCB-17	1900	-			PCB-67	234	-		
PCB-18	4180	-			PCB-68	6.41	-		
PCB-19	275	-			PCB-69	-	-	C052	52
PCB-20	4660	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	2860	-			PCB-72	-	-	C041	41/64/71
PCB-23	11.2	-			PCB-73	ND	1.19		
PCB-24	136	-			PCB-74	3210	-		
PCB-25	789	-			PCB-75	-	-	C048	48
PCB-26	1730	-			PCB-76	-	-	C066	66
PCB-27	179	-			PCB-77	490	-		
PCB-28	8950	-			PCB-78	22.7	-		
PCB-29	66.8	-			PCB-79	83.8	-		
PCB-30	ND	1.26			PCB-80	ND	0.901		
PCB-31	7580	-			PCB-81	148	-		
PCB-32	1320	-			PCB-82	1080	-		
PCB-33	-	-	C020	20/21	PCB-83	423	-	C	112
PCB-34	75.2	-			PCB-84	3750	-	C	92
PCB-35	116	-			PCB-85	1310	-	C	116
PCB-36	ND	1.70			PCB-86	ND	1.55		
PCB-37	1600	-			PCB-87	3420	-	C	117/125
PCB-38	23.3	-			PCB-88	2230	-	C	91
PCB-39	10.6	-			PCB-89	102	-		
PCB-40	547	-			PCB-90	9880	-	C	101
PCB-41	2420	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1010	-	C	59	PCB-92	-	-	C084	84
PCB-43	3950	-	C	49	PCB-93	ND	2.49		
PCB-44	3350	-			PCB-94	78.6	-		
PCB-45	698	-			PCB-95	15000	-		
PCB-46	262	-			PCB-96	60.4	-		
PCB-47	1010	-			PCB-97	2330	-		
PCB-48	877	-	C	75	PCB-98	ND	1.92	C	102
PCB-49	-	-	C043	43	PCB-99	3610	-		
PCB-50	18.2	-			PCB-100	55.6	-		

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EPA Method 1668
PCBs

FAL ID: 10311-002-SA
Client ID: LDW-BA-SU-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.04 g
% Solids: 55.87

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	1900	-		
PCB-102	-	-	C098	98	PCB-152	9.12	-		
PCB-103	96.9	-			PCB-153	8390	-		
PCB-104	ND	1.60			PCB-154	94.4	-		
PCB-105	3000	-			PCB-155	ND	1.11		
PCB-106	8170	-	C	118	PCB-156	1020	-		
PCB-107	518	-	C	108	PCB-157	202	-		
PCB-108	-	-	C107	107	PCB-158	1080	-	C	160
PCB-109	ND	1.13			PCB-159	53.4	-		
PCB-110	8700	-			PCB-160	-	-	C158	158
PCB-111	156	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.20			PCB-163	-	-	C138	138/164
PCB-114	187	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	39.2	-		
PCB-117	-	-	C087	87/125	PCB-167	357	-		
PCB-118	-	-	C106	106	PCB-168	ND	1.58		
PCB-119	171	-			PCB-169	ND	1.50		
PCB-120	ND	1.01			PCB-170	1930	-		
PCB-121	ND	1.75			PCB-171	598	-		
PCB-122	91.2	-			PCB-172	363	-		
PCB-123	119	-			PCB-173	52.7	-		
PCB-124	359	-			PCB-174	2070	-		
PCB-125	-	-	C087	87/117	PCB-175	89.3	-		
PCB-126	26.2	-			PCB-176	295	-		
PCB-127	ND	1.39			PCB-177	1240	-		
PCB-128	1530	-	C	162	PCB-178	416	-		
PCB-129	530	-			PCB-179	852	-		
PCB-130	542	-			PCB-180	3730	-		
PCB-131	273	-	C	133	PCB-181	ND	1.53		
PCB-132	2710	-	C	161	PCB-182	2310	-	C	187
PCB-133	-	-	C131	131	PCB-183	1210	-		
PCB-134	503	-	C	143	PCB-184	ND	1.09		
PCB-135	1080	-			PCB-185	239	-		
PCB-136	1270	-			PCB-186	ND	1.18		
PCB-137	585	-			PCB-187	-	-	C182	182
PCB-138	8700	-	C	163/164	PCB-188	3.24	-	J	
PCB-139	7120	-	C	149	PCB-189	77.1	-		
PCB-140	47.4	-			PCB-190	397	-		
PCB-141	1690	-			PCB-191	84.2	-		
PCB-142	ND	2.32			PCB-192	ND	1.30		
PCB-143	-	-	C134	134	PCB-193	218	-		
PCB-144	468	-			PCB-194	865	-		
PCB-145	4.21	-			PCB-195	408	-		
PCB-146	1180	-	C	165	PCB-196	923	-	C	203
PCB-147	173	-			PCB-197	35.0	-		
PCB-148	ND	1.70			PCB-198	46.3	-		
PCB-149	-	-	C139	139	PCB-199	824	-		
PCB-150	12.9	-			PCB-200	105	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10311-002-SA
Client ID: LDW-BA-SU-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.04 g
% Solids: 55.87

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017

Compound	Conc	DL	Qual	Coeluters
PCB-201	127	-		
PCB-202	165	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.52		
PCB-205	44.2	-		
PCB-206	302	-		
PCB-207	43.3	-		
PCB-208	67.5	-		
PCB-209	83.3	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	90.8	5.00 - 145	
13C-PCB-3	93.5	5.00 - 145	
13C-PCB-4	96.2	5.00 - 145	
13C-PCB-15	91.4	5.00 - 145	
13C-PCB-19	84.0	5.00 - 145	
13C-PCB-37	89.6	5.00 - 145	
13C-PCB-54	122	5.00 - 145	
13C-PCB-77	104	10.0 - 145	
13C-PCB-81	103	10.0 - 145	
13C-PCB-104	66.6	10.0 - 145	
13C-PCB-105	107	10.0 - 145	
13C-PCB-114	107	10.0 - 145	
13C-PCB-118	105	10.0 - 145	
13C-PCB-123	107	10.0 - 145	
13C-PCB-126	108	10.0 - 145	
13C-PCB-155	89.6	10.0 - 145	
13C-PCB-156	99.0	10.0 - 145	
13C-PCB-157	96.1	10.0 - 145	
13C-PCB-167	98.4	10.0 - 145	
13C-PCB-169	92.4	10.0 - 145	
13C-PCB-188	91.4	10.0 - 145	
13C-PCB-189	76.8	10.0 - 145	
13C-PCB-202	87.1	10.0 - 145	
13C-PCB-205	98.0	10.0 - 145	
13C-PCB-206	82.8	10.0 - 145	
13C-PCB-208	92.5	10.0 - 145	
13C-PCB-209	72.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	124	5.00 - 145	
13C-PCB-111	93.5	10.0 - 145	
13C-PCB-178	84.9	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: 10311-003-SA
Client ID: LDW-BA-SU-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.12 g
% Solids: 48.98

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017
Total Conc: 341000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	61.9	-			PCB-51	299	-		
PCB-2	12.6	-			PCB-52	8250	-	C	69
PCB-3	44.3	-			PCB-53	947	-		
PCB-4	428	-			PCB-54	15.6	-		
PCB-5	97.0	-			PCB-55	159	-		
PCB-6	567	-			PCB-56	5130	-	C	60
PCB-7	103	-			PCB-57	38.1	-		
PCB-8	2340	-			PCB-58	43.3	-		
PCB-9	104	-			PCB-59	-	-	C042	42
PCB-10	43.9	-			PCB-60	-	-	C056	56
PCB-11	34.5	-			PCB-61	11600	-	C	70
PCB-12	28.5	-			PCB-62	ND	1.37		
PCB-13	182	-			PCB-63	409	-		
PCB-14	ND	1.99			PCB-64	-	-	C041	41/71/72
PCB-15	1270	-			PCB-65	ND	1.27		
PCB-16	1220	-			PCB-66	9300	-	C	76
PCB-17	2260	-			PCB-67	323	-		
PCB-18	4680	-			PCB-68	26.1	-		
PCB-19	328	-			PCB-69	-	-	C052	52
PCB-20	5750	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	3450	-			PCB-72	-	-	C041	41/64/71
PCB-23	17.2	-			PCB-73	ND	1.42		
PCB-24	137	-			PCB-74	4900	-		
PCB-25	934	-			PCB-75	-	-	C048	48
PCB-26	1970	-			PCB-76	-	-	C066	66
PCB-27	224	-			PCB-77	748	-		
PCB-28	10300	-			PCB-78	44.7	-		
PCB-29	81.1	-			PCB-79	157	-		
PCB-30	ND	1.76			PCB-80	ND	1.07		
PCB-31	10700	-			PCB-81	247	-		
PCB-32	1620	-			PCB-82	1940	-		
PCB-33	-	-	C020	20/21	PCB-83	783	-	C	112
PCB-34	103	-			PCB-84	7170	-	C	92
PCB-35	140	-			PCB-85	2320	-	C	116
PCB-36	ND	2.45			PCB-86	ND	1.86		
PCB-37	2120	-			PCB-87	6430	-	C	117/125
PCB-38	27.1	-			PCB-88	4010	-	C	91
PCB-39	24.6	-			PCB-89	157	-		
PCB-40	751	-			PCB-90	18300	-	C	101
PCB-41	3330	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1360	-	C	59	PCB-92	-	-	C084	84
PCB-43	5770	-	C	49	PCB-93	ND	2.59		
PCB-44	4900	-			PCB-94	144	-		
PCB-45	903	-			PCB-95	27000	-		
PCB-46	344	-			PCB-96	96.3	-		
PCB-47	1390	-			PCB-97	4430	-		
PCB-48	1170	-	C	75	PCB-98	ND	2.00	C	102
PCB-49	-	-	C043	43	PCB-99	6750	-		
PCB-50	27.2	-			PCB-100	101	-		

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EPA Method 1668
PCBs

FAL ID: 10311-003-SA
Client ID: LDW-BA-SU-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.12 g
% Solids: 48.98

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	3370	-		
PCB-102	-	-	C098	98	PCB-152	19.1	-		
PCB-103	190	-			PCB-153	14900	-		
PCB-104	ND	1.67			PCB-154	180	-		
PCB-105	5620	-			PCB-155	ND	1.05		
PCB-106	15300	-	C	118	PCB-156	1960	-		
PCB-107	1020	-	C	108	PCB-157	401	-		
PCB-108	-	-	C107	107	PCB-158	2110	-	C	160
PCB-109	ND	1.35			PCB-159	95.1	-		
PCB-110	16300	-			PCB-160	-	-	C158	158
PCB-111	302	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.43			PCB-163	-	-	C138	138/164
PCB-114	373	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	14.5	-		
PCB-117	-	-	C087	87/125	PCB-167	711	-		
PCB-118	-	-	C106	106	PCB-168	ND	1.92		
PCB-119	332	-			PCB-169	ND	1.90		
PCB-120	17.6	-			PCB-170	3070	-		
PCB-121	ND	1.82			PCB-171	1030	-		
PCB-122	152	-			PCB-172	561	-		
PCB-123	205	-			PCB-173	94.5	-		
PCB-124	680	-			PCB-174	3230	-		
PCB-125	-	-	C087	87/117	PCB-175	145	-		
PCB-126	62.1	-			PCB-176	473	-		
PCB-127	ND	1.76			PCB-177	2020	-		
PCB-128	2880	-	C	162	PCB-178	667	-		
PCB-129	1030	-			PCB-179	1330	-		
PCB-130	1190	-			PCB-180	5920	-		
PCB-131	545	-	C	133	PCB-181	ND	2.04		
PCB-132	5470	-	C	161	PCB-182	3800	-	C	187
PCB-133	-	-	C131	131	PCB-183	1950	-		
PCB-134	1000	-	C	143	PCB-184	ND	1.46		
PCB-135	2070	-			PCB-185	361	-		
PCB-136	2140	-			PCB-186	ND	1.57		
PCB-137	1030	-			PCB-187	-	-	C182	182
PCB-138	15500	-	C	163/164	PCB-188	5.30	-		
PCB-139	12500	-	C	149	PCB-189	131	-		
PCB-140	89.4	-			PCB-190	582	-		
PCB-141	2980	-			PCB-191	139	-		
PCB-142	ND	2.81			PCB-192	ND	1.74		
PCB-143	-	-	C134	134	PCB-193	350	-		
PCB-144	883	-			PCB-194	1270	-		
PCB-145	8.18	-			PCB-195	570	-		
PCB-146	2240	-	C	165	PCB-196	1230	-	C	203
PCB-147	376	-			PCB-197	52.3	-		
PCB-148	ND	1.61			PCB-198	50.7	-		
PCB-149	-	-	C139	139	PCB-199	1150	-		
PCB-150	25.0	-			PCB-200	151	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10311-003-SA
Client ID: LDW-BA-SU-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.12 g
% Solids: 48.98

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017

Compound	Conc	DL	Qual	Coeluters
PCB-201	178	-		
PCB-202	232	-		
PCB-203	-	-	C196	196
PCB-204	ND	2.00		
PCB-205	57.4	-		
PCB-206	428	-		
PCB-207	58.6	-		
PCB-208	104	-		
PCB-209	161	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	90.2	5.00 - 145	
13C-PCB-3	93.0	5.00 - 145	
13C-PCB-4	93.1	5.00 - 145	
13C-PCB-15	92.2	5.00 - 145	
13C-PCB-19	87.9	5.00 - 145	
13C-PCB-37	95.6	5.00 - 145	
13C-PCB-54	124	5.00 - 145	
13C-PCB-77	106	10.0 - 145	
13C-PCB-81	106	10.0 - 145	
13C-PCB-104	70.5	10.0 - 145	
13C-PCB-105	114	10.0 - 145	
13C-PCB-114	116	10.0 - 145	
13C-PCB-118	111	10.0 - 145	
13C-PCB-123	110	10.0 - 145	
13C-PCB-126	115	10.0 - 145	
13C-PCB-155	94.4	10.0 - 145	
13C-PCB-156	104	10.0 - 145	
13C-PCB-157	102	10.0 - 145	
13C-PCB-167	104	10.0 - 145	
13C-PCB-169	94.9	10.0 - 145	
13C-PCB-188	99.2	10.0 - 145	
13C-PCB-189	76.8	10.0 - 145	
13C-PCB-202	89.9	10.0 - 145	
13C-PCB-205	97.0	10.0 - 145	
13C-PCB-206	82.6	10.0 - 145	
13C-PCB-208	93.3	10.0 - 145	
13C-PCB-209	75.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	144	5.00 - 145	
13C-PCB-111	104	10.0 - 145	
13C-PCB-178	97.3	10.0 - 145	

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

Analyst: _____

Date: 1/10/17

Reviewed By: _____

Date: 1/10/17

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EPA Method 1668
PCBs

FAL ID: 10311-004-SA
Client ID: LDW-BA-SU-ENR-CA-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.09 g
% Solids: 59.51

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017
Total Conc: 153000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	51.1	-			PCB-51	168	-		
PCB-2	14.1	-			PCB-52	3990	-	C	69
PCB-3	41.6	-			PCB-53	522	-		
PCB-4	261	-			PCB-54	8.07	-		
PCB-5	112	-			PCB-55	78.6	-		
PCB-6	559	-			PCB-56	2240	-	C	60
PCB-7	72.1	-			PCB-57	24.0	-		
PCB-8	1310	-			PCB-58	22.8	-		
PCB-9	61.9	-			PCB-59	-	-	C042	42
PCB-10	29.1	-			PCB-60	-	-	C056	56
PCB-11	58.4	-			PCB-61	4750	-	C	70
PCB-12	78.0	-			PCB-62	ND	0.698		
PCB-13	142	-			PCB-63	204	-		
PCB-14	ND	0.799			PCB-64	-	-	C041	41/71/72
PCB-15	659	-			PCB-65	ND	0.649		
PCB-16	763	-			PCB-66	4250	-	C	76
PCB-17	1260	-			PCB-67	178	-		
PCB-18	2720	-			PCB-68	20.0	-		
PCB-19	192	-			PCB-69	-	-	C052	52
PCB-20	2970	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	1790	-			PCB-72	-	-	C041	41/64/71
PCB-23	7.64	-			PCB-73	ND	0.724		
PCB-24	64.0	-			PCB-74	2110	-		
PCB-25	827	-			PCB-75	-	-	C048	48
PCB-26	1740	-			PCB-76	-	-	C066	66
PCB-27	144	-			PCB-77	338	-		
PCB-28	6260	-			PCB-78	20.1	-		
PCB-29	36.5	-			PCB-79	72.1	-		
PCB-30	ND	0.905			PCB-80	ND	0.547		
PCB-31	5380	-			PCB-81	96.5	-		
PCB-32	834	-			PCB-82	724	-		
PCB-33	-	-	C020	20/21	PCB-83	325	-	C	112
PCB-34	64.9	-			PCB-84	2900	-	C	92
PCB-35	ND	1.13			PCB-85	890	-	C	116
PCB-36	ND	1.07			PCB-86	ND	0.817		
PCB-37	75.0	-			PCB-87	2190	-	C	117/125
PCB-38	ND	1.05			PCB-88	1650	-	C	91
PCB-39	ND	1.07			PCB-89	69.5	-		
PCB-40	325	-			PCB-90	7140	-	C	101
PCB-41	1620	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	733	-	C	59	PCB-92	-	-	C084	84
PCB-43	3270	-	C	49	PCB-93	ND	1.58		
PCB-44	2350	-			PCB-94	59.5	-		
PCB-45	488	-			PCB-95	10300	-		
PCB-46	195	-			PCB-96	38.2	-		
PCB-47	904	-			PCB-97	1690	-		
PCB-48	518	-	C	75	PCB-98	ND	1.22	C	102
PCB-49	-	-	C043	43	PCB-99	2940	-		
PCB-50	15.9	-			PCB-100	65.1	-		

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EPA Method 1668
PCBs

FAL ID: 10311-004-SA
Client ID: LDW-BA-SU-ENR-CA-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.09 g
% Solids: 59.51

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	1430	-		
PCB-102	-	-	C098	98	PCB-152	7.84	-		
PCB-103	106	-			PCB-153	6260	-		
PCB-104	ND	1.02			PCB-154	115	-		
PCB-105	2050	-			PCB-155	ND	0.462		
PCB-106	6070	-	C	118	PCB-156	709	-		
PCB-107	442	-	C	108	PCB-157	146	-		
PCB-108	-	-	C107	107	PCB-158	761	-	C	160
PCB-109	ND	0.594			PCB-159	48.9	-		
PCB-110	6480	-			PCB-160	-	-	C158	158
PCB-111	85.4	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.631			PCB-163	-	-	C138	138/164
PCB-114	148	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	28.6	-		
PCB-117	-	-	C087	87/125	PCB-167	271	-		
PCB-118	-	-	C106	106	PCB-168	16.3	-		
PCB-119	210	-			PCB-169	ND	0.906		
PCB-120	ND	0.535			PCB-170	1540	-		
PCB-121	ND	1.11			PCB-171	486	-		
PCB-122	67.3	-			PCB-172	289	-		
PCB-123	86.2	-			PCB-173	43.0	-		
PCB-124	248	-			PCB-174	1630	-		
PCB-125	-	-	C087	87/117	PCB-175	69.0	-		
PCB-126	15.1	-			PCB-176	240	-		
PCB-127	ND	0.794			PCB-177	1020	-		
PCB-128	1100	-	C	162	PCB-178	359	-		
PCB-129	348	-			PCB-179	694	-		
PCB-130	449	-			PCB-180	2890	-		
PCB-131	219	-	C	133	PCB-181	ND	1.05		
PCB-132	2160	-	C	161	PCB-182	1980	-	C	187
PCB-133	-	-	C131	131	PCB-183	973	-		
PCB-134	385	-	C	143	PCB-184	ND	0.750		
PCB-135	854	-			PCB-185	174	-		
PCB-136	939	-			PCB-186	ND	0.807		
PCB-137	388	-			PCB-187	-	-	C182	182
PCB-138	6290	-	C	163/164	PCB-188	4.01	-		
PCB-139	5330	-	C	149	PCB-189	58.8	-		
PCB-140	57.6	-			PCB-190	305	-		
PCB-141	1150	-			PCB-191	66.2	-		
PCB-142	ND	1.42			PCB-192	ND	0.893		
PCB-143	-	-	C134	134	PCB-193	182	-		
PCB-144	325	-			PCB-194	722	-		
PCB-145	3.28	-	J		PCB-195	307	-		
PCB-146	1040	-	C	165	PCB-196	794	-	C	203
PCB-147	138	-			PCB-197	31.2	-		
PCB-148	ND	0.709			PCB-198	31.8	-		
PCB-149	-	-	C139	139	PCB-199	750	-		
PCB-150	15.1	-			PCB-200	90.9	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10311-004-SA
Client ID: LDW-BA-SU-ENR-CA-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.09 g
% Solids: 59.51

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017

Compound	Conc	DL	Qual	Coeluters
PCB-201	107	-		
PCB-202	145	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.00		
PCB-205	34.6	-		
PCB-206	290	-		
PCB-207	41.7	-		
PCB-208	68.9	-		
PCB-209	93.3	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	92.7	5.00 - 145	
13C-PCB-3	97.9	5.00 - 145	
13C-PCB-4	99.8	5.00 - 145	
13C-PCB-15	94.8	5.00 - 145	
13C-PCB-19	90.0	5.00 - 145	
13C-PCB-37	95.8	5.00 - 145	
13C-PCB-54	124	5.00 - 145	
13C-PCB-77	113	10.0 - 145	
13C-PCB-81	112	10.0 - 145	
13C-PCB-104	72.3	10.0 - 145	
13C-PCB-105	114	10.0 - 145	
13C-PCB-114	115	10.0 - 145	
13C-PCB-118	111	10.0 - 145	
13C-PCB-123	111	10.0 - 145	
13C-PCB-126	118	10.0 - 145	
13C-PCB-155	97.8	10.0 - 145	
13C-PCB-156	107	10.0 - 145	
13C-PCB-157	106	10.0 - 145	
13C-PCB-167	105	10.0 - 145	
13C-PCB-169	99.9	10.0 - 145	
13C-PCB-188	97.0	10.0 - 145	
13C-PCB-189	86.9	10.0 - 145	
13C-PCB-202	92.6	10.0 - 145	
13C-PCB-205	101	10.0 - 145	
13C-PCB-206	87.0	10.0 - 145	
13C-PCB-208	95.1	10.0 - 145	
13C-PCB-209	78.0	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	132	5.00 - 145	
13C-PCB-111	99.0	10.0 - 145	
13C-PCB-178	89.0	10.0 - 145	

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

Analyst: _____
Date: 1/10/17

Reviewed By: _____
Date: 1/10/17

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EPA Method 1668
PCBs

FAL ID: 10311-005-SA
Client ID: LDW-BA-SU-ENR-CB-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.11 g
% Solids: 59.51

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017
Total Conc: 468000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	108	-			PCB-51	429	-		
PCB-2	23.2	-			PCB-52	10800	-	C	69
PCB-3	93.6	-			PCB-53	1340	-		
PCB-4	717	-			PCB-54	21.4	-		
PCB-5	263	-			PCB-55	241	-		
PCB-6	992	-			PCB-56	7950	-	C	60
PCB-7	202	-			PCB-57	46.7	-		
PCB-8	3710	-			PCB-58	47.9	-		
PCB-9	150	-			PCB-59	-	-	C042	42
PCB-10	63.9	-			PCB-60	-	-	C056	56
PCB-11	71.2	-			PCB-61	15800	-	C	70
PCB-12	216	-			PCB-62	ND	1.03		
PCB-13	153	-			PCB-63	601	-		
PCB-14	ND	1.15			PCB-64	-	-	C041	41/71/72
PCB-15	2030	-			PCB-65	ND	0.959		
PCB-16	1970	-			PCB-66	13200	-	C	76
PCB-17	3500	-			PCB-67	502	-		
PCB-18	6990	-			PCB-68	21.7	-		
PCB-19	504	-			PCB-69	-	-	C052	52
PCB-20	10600	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	6320	-			PCB-72	-	-	C041	41/64/71
PCB-23	27.2	-			PCB-73	ND	1.07		
PCB-24	306	-			PCB-74	6910	-		
PCB-25	1840	-			PCB-75	-	-	C048	48
PCB-26	3990	-			PCB-76	-	-	C066	66
PCB-27	226	-			PCB-77	1070	-		
PCB-28	20900	-			PCB-78	49.7	-		
PCB-29	143	-			PCB-79	190	-		
PCB-30	ND	1.25			PCB-80	ND	0.808		
PCB-31	17300	-			PCB-81	310	-		
PCB-32	2560	-			PCB-82	2190	-		
PCB-33	-	-	C020	20/21	PCB-83	1020	-	C	112
PCB-34	158	-			PCB-84	9030	-	C	92
PCB-35	ND	1.39			PCB-85	2910	-	C	116
PCB-36	ND	1.32			PCB-86	ND	1.03		
PCB-37	3460	-			PCB-87	7620	-	C	117/125
PCB-38	ND	1.30			PCB-88	5230	-	C	91
PCB-39	ND	1.32			PCB-89	229	-		
PCB-40	879	-			PCB-90	23100	-	C	101
PCB-41	4260	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1850	-	C	59	PCB-92	-	-	C084	84
PCB-43	7980	-	C	49	PCB-93	ND	2.04		
PCB-44	6360	-			PCB-94	175	-		
PCB-45	1250	-			PCB-95	33100	-		
PCB-46	464	-			PCB-96	124	-		
PCB-47	2130	-			PCB-97	5610	-		
PCB-48	1490	-	C	75	PCB-98	ND	1.57	C	102
PCB-49	-	-	C043	43	PCB-99	8740	-		
PCB-50	37.2	-			PCB-100	158	-		

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EPA Method 1668
PCBs

FAL ID: 10311-005-SA
Client ID: LDW-BA-SU-ENR-CB-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.11 g
% Solids: 59.51

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	4500	-		
PCB-102	-	-	C098	98	PCB-152	21.6	-		
PCB-103	256	-			PCB-153	19400	-		
PCB-104	ND	1.32			PCB-154	288	-		
PCB-105	7490	-			PCB-155	ND	0.636		
PCB-106	20400	-	C	118	PCB-156	2370	-		
PCB-107	1380	-	C	108	PCB-157	479	-		
PCB-108	-	-	C107	107	PCB-158	2530	-	C	160
PCB-109	ND	0.748			PCB-159	116	-		
PCB-110	20000	-			PCB-160	-	-	C158	158
PCB-111	352	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.795			PCB-163	-	-	C138	138/164
PCB-114	477	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	95.4	-		
PCB-117	-	-	C087	87/125	PCB-167	839	-		
PCB-118	-	-	C106	106	PCB-168	27.7	-		
PCB-119	515	-			PCB-169	ND	1.16		
PCB-120	ND	0.675			PCB-170	3790	-		
PCB-121	ND	1.44			PCB-171	1330	-		
PCB-122	187	-			PCB-172	748	-		
PCB-123	272	-			PCB-173	113	-		
PCB-124	829	-			PCB-174	4450	-		
PCB-125	-	-	C087	87/117	PCB-175	182	-		
PCB-126	49.8	-			PCB-176	644	-		
PCB-127	ND	0.900			PCB-177	2730	-		
PCB-128	3650	-	C	162	PCB-178	925	-		
PCB-129	1250	-			PCB-179	1830	-		
PCB-130	1470	-			PCB-180	7550	-		
PCB-131	673	-	C	133	PCB-181	ND	1.31		
PCB-132	7300	-	C	161	PCB-182	5160	-	C	187
PCB-133	-	-	C131	131	PCB-183	2640	-		
PCB-134	1240	-	C	143	PCB-184	4.70	-		
PCB-135	2670	-			PCB-185	457	-		
PCB-136	2690	-			PCB-186	ND	1.01		
PCB-137	1320	-			PCB-187	-	-	C182	182
PCB-138	20300	-	C	163/164	PCB-188	8.21	-		
PCB-139	16700	-	C	149	PCB-189	153	-		
PCB-140	129	-			PCB-190	769	-		
PCB-141	3860	-			PCB-191	173	-		
PCB-142	ND	1.61			PCB-192	ND	1.12		
PCB-143	-	-	C134	134	PCB-193	466	-		
PCB-144	1020	-			PCB-194	1720	-		
PCB-145	9.51	-			PCB-195	874	-		
PCB-146	3000	-	C	165	PCB-196	1650	-	C	203
PCB-147	454	-			PCB-197	70.3	-		
PCB-148	ND	0.977			PCB-198	77.5	-		
PCB-149	-	-	C139	139	PCB-199	1470	-		
PCB-150	38.3	-			PCB-200	193	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10311-005-SA
Client ID: LDW-BA-SU-ENR-CB-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.11 g
% Solids: 59.51

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017

Compound	Conc	DL	Qual	Coeluters
PCB-201	242	-		
PCB-202	330	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.43		
PCB-205	88.7	-		
PCB-206	762	-		
PCB-207	81.2	-		
PCB-208	169	-		
PCB-209	495	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	94.0	5.00 - 145	
13C-PCB-3	95.9	5.00 - 145	
13C-PCB-4	98.6	5.00 - 145	
13C-PCB-15	94.1	5.00 - 145	
13C-PCB-19	85.6	5.00 - 145	
13C-PCB-37	99.2	5.00 - 145	
13C-PCB-54	145	5.00 - 145	
13C-PCB-77	119	10.0 - 145	
13C-PCB-81	117	10.0 - 145	
13C-PCB-104	78.9	10.0 - 145	
13C-PCB-105	124	10.0 - 145	
13C-PCB-114	128	10.0 - 145	
13C-PCB-118	122	10.0 - 145	
13C-PCB-123	124	10.0 - 145	
13C-PCB-126	125	10.0 - 145	
13C-PCB-155	94.9	10.0 - 145	
13C-PCB-156	107	10.0 - 145	
13C-PCB-157	102	10.0 - 145	
13C-PCB-167	108	10.0 - 145	
13C-PCB-169	92.1	10.0 - 145	
13C-PCB-188	96.7	10.0 - 145	
13C-PCB-189	69.8	10.0 - 145	
13C-PCB-202	85.8	10.0 - 145	
13C-PCB-205	109	10.0 - 145	
13C-PCB-206	87.1	10.0 - 145	
13C-PCB-208	106	10.0 - 145	
13C-PCB-209	76.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	159	5.00 - 145	A
13C-PCB-111	104	10.0 - 145	
13C-PCB-178	93.0	10.0 - 145	

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

Analyst: _____

Date: 1/10/2017

Reviewed By: _____

Date: 1/10/2017

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EPA Method 1668
PCBs

FAL ID: 10311-006-SA
Client ID: LDW-BA-SU-ENR-CC-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.02 g
% Solids: 57.34

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017
Total Conc: 237000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	60.2	-			PCB-51	245	-		
PCB-2	11.8	-			PCB-52	6310	-	C	69
PCB-3	37.4	-			PCB-53	745	-		
PCB-4	378	-			PCB-54	12.3	-		
PCB-5	106	-			PCB-55	118	-		
PCB-6	498	-			PCB-56	3900	-	C	60
PCB-7	89.5	-			PCB-57	40.7	-		
PCB-8	1870	-			PCB-58	25.5	-		
PCB-9	93.7	-			PCB-59	-	-	C042	42
PCB-10	45.1	-			PCB-60	-	-	C056	56
PCB-11	45.0	-			PCB-61	7340	-	C	70
PCB-12	58.1	-			PCB-62	ND	1.82		
PCB-13	154	-			PCB-63	292	-		
PCB-14	ND	1.95			PCB-64	-	-	C041	41/71/72
PCB-15	1060	-			PCB-65	ND	1.69		
PCB-16	1160	-			PCB-66	6380	-	C	76
PCB-17	1780	-			PCB-67	243	-		
PCB-18	3500	-			PCB-68	28.0	-		
PCB-19	261	-			PCB-69	-	-	C052	52
PCB-20	3700	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	2280	-			PCB-72	-	-	C041	41/64/71
PCB-23	7.61	-			PCB-73	ND	1.89		
PCB-24	86.5	-			PCB-74	3350	-		
PCB-25	663	-			PCB-75	-	-	C048	48
PCB-26	1340	-			PCB-76	-	-	C066	66
PCB-27	206	-			PCB-77	578	-		
PCB-28	7100	-			PCB-78	29.7	-		
PCB-29	51.7	-			PCB-79	102	-		
PCB-30	ND	1.94			PCB-80	ND	1.42		
PCB-31	6500	-			PCB-81	179	-		
PCB-32	1110	-			PCB-82	1250	-		
PCB-33	-	-	C020	20/21	PCB-83	514	-	C	112
PCB-34	63.1	-			PCB-84	4570	-	C	92
PCB-35	121	-			PCB-85	1550	-	C	116
PCB-36	ND	1.93			PCB-86	ND	1.90		
PCB-37	1680	-			PCB-87	3960	-	C	117/125
PCB-38	31.5	-			PCB-88	1940	-	C	91
PCB-39	17.8	-			PCB-89	113	-		
PCB-40	672	-			PCB-90	11700	-	C	101
PCB-41	3390	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1410	-	C	59	PCB-92	-	-	C084	84
PCB-43	4920	-	C	49	PCB-93	ND	2.91		
PCB-44	4400	-			PCB-94	74.8	-		
PCB-45	737	-			PCB-95	12400	-		
PCB-46	283	-			PCB-96	66.1	-		
PCB-47	1220	-			PCB-97	2830	-		
PCB-48	1120	-	C	75	PCB-98	ND	2.24	C	102
PCB-49	-	-	C043	43	PCB-99	4460	-		
PCB-50	21.7	-			PCB-100	62.7	-		

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EPA Method 1668
PCBs

FAL ID: 10311-006-SA
Client ID: LDW-BA-SU-ENR-CC-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.02 g
% Solids: 57.34

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	2480	-		
PCB-102	-	-	C098	98	PCB-152	11.3	-		
PCB-103	150	-			PCB-153	10600	-		
PCB-104	ND	1.88			PCB-154	143	-		
PCB-105	3540	-			PCB-155	ND	1.42		
PCB-106	9890	-	C	118	PCB-156	1220	-		
PCB-107	669	-	C	108	PCB-157	254	-		
PCB-108	-	-	C107	107	PCB-158	1350	-	C	160
PCB-109	4.36	-			PCB-159	89.2	-		
PCB-110	10500	-			PCB-160	-	-	C158	158
PCB-111	183	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.47			PCB-163	-	-	C138	138/164
PCB-114	231	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	50.2	-		
PCB-117	-	-	C087	87/125	PCB-167	468	-		
PCB-118	-	-	C106	106	PCB-168	15.7	-		
PCB-119	251	-			PCB-169	ND	2.51		
PCB-120	ND	1.25			PCB-170	2630	-		
PCB-121	ND	2.05			PCB-171	843	-		
PCB-122	117	-			PCB-172	508	-		
PCB-123	138	-			PCB-173	74.8	-		
PCB-124	444	-			PCB-174	2880	-		
PCB-125	-	-	C087	87/117	PCB-175	120	-		
PCB-126	27.5	-			PCB-176	428	-		
PCB-127	ND	1.47			PCB-177	1780	-		
PCB-128	1840	-	C	162	PCB-178	627	-		
PCB-129	636	-			PCB-179	1270	-		
PCB-130	729	-			PCB-180	5050	-		
PCB-131	352	-	C	133	PCB-181	ND	1.62		
PCB-132	3520	-	C	161	PCB-182	3540	-	C	187
PCB-133	-	-	C131	131	PCB-183	1700	-		
PCB-134	662	-	C	143	PCB-184	ND	1.16		
PCB-135	1430	-			PCB-185	334	-		
PCB-136	1490	-			PCB-186	ND	1.25		
PCB-137	698	-			PCB-187	-	-	C182	182
PCB-138	10800	-	C	163/164	PCB-188	6.87	-		
PCB-139	9260	-	C	149	PCB-189	99.1	-		
PCB-140	65.2	-			PCB-190	509	-		
PCB-141	2130	-			PCB-191	115	-		
PCB-142	3.92	-	J		PCB-192	ND	1.38		
PCB-143	-	-	C134	134	PCB-193	323	-		
PCB-144	608	-			PCB-194	1230	-		
PCB-145	5.70	-			PCB-195	538	-		
PCB-146	1520	-	C	165	PCB-196	1210	-	C	203
PCB-147	243	-			PCB-197	49.3	-		
PCB-148	ND	2.18			PCB-198	51.1	-		
PCB-149	-	-	C139	139	PCB-199	1160	-		
PCB-150	21.0	-			PCB-200	149	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10311-006-SA
Client ID: LDW-BA-SU-ENR-CC-CORE
Matrix: Sediment
Batch No: X3953

Date Extracted: 12-14-2016
Date Received: 12-01-2016
Amount: 5.02 g
% Solids: 57.34

ICal: DAILY209FAL4-1-5-17
GC Column: DB1
Units: pg/g

Acquired: 01-05-2017

Compound	Conc	DL	Qual	Coeluters
PCB-201	179	-		
PCB-202	241	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.67		
PCB-205	63.8	-		
PCB-206	400	-		
PCB-207	57.7	-		
PCB-208	91.4	-		
PCB-209	131	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	93.5	5.00 - 145	
13C-PCB-3	96.7	5.00 - 145	
13C-PCB-4	97.7	5.00 - 145	
13C-PCB-15	96.7	5.00 - 145	
13C-PCB-19	93.2	5.00 - 145	
13C-PCB-37	102	5.00 - 145	
13C-PCB-54	109	5.00 - 145	
13C-PCB-77	105	10.0 - 145	
13C-PCB-81	103	10.0 - 145	
13C-PCB-104	80.6	10.0 - 145	
13C-PCB-105	107	10.0 - 145	
13C-PCB-114	108	10.0 - 145	
13C-PCB-118	104	10.0 - 145	
13C-PCB-123	108	10.0 - 145	
13C-PCB-126	106	10.0 - 145	
13C-PCB-155	95.1	10.0 - 145	
13C-PCB-156	97.9	10.0 - 145	
13C-PCB-157	95.7	10.0 - 145	
13C-PCB-167	97.3	10.0 - 145	
13C-PCB-169	88.1	10.0 - 145	
13C-PCB-188	88.2	10.0 - 145	
13C-PCB-189	75.5	10.0 - 145	
13C-PCB-202	87.4	10.0 - 145	
13C-PCB-205	98.4	10.0 - 145	
13C-PCB-206	87.3	10.0 - 145	
13C-PCB-208	93.1	10.0 - 145	
13C-PCB-209	82.4	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	119	5.00 - 145	
13C-PCB-111	101	10.0 - 145	
13C-PCB-178	91.5	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: 1/10/2017

Reviewed By: _____

Date: 1/10/2017

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CHAIN OF CUSTODY

10311
0 oc

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	Sample Originator (Organization): Ramboll ENVIRON	Report Results To: Floyd Snider	Phone: 206-292-2078
Destination Contact: Brad Silverbush	PERSON WHO COLLECTED SAMPLE: Julia Levengood	Contact Name: Gretchen Heavner	Fax:
Date: 11/30/16	Address:	Address: 601 Union St., Suite 600 Seattle, WA 98101	Email: gretchen.heavner@floydsnider.com
Turn-Around-Time: 15 days			
Project Name: LDW ENR/AC Pilot Study	Phone:	Invoicing To: AMEC Foster Wheeler/Diane Shannon	
	Fax:	Comments or Special Instructions: 425-921-4008 diane.shannon@amecfw.com	
Contract/PO: C013106435	E-mail		

No.	Sample ID	Matrix	Volume & Type of Container	Date & Time	Analyses: EPA 1668						Preservation	Sample Temp Upon Receipt	LAB ID
1	LDW-BA-SU-ENR+AC-CA-CORE	Sed	1-16oz	11/26/16 1515	✓						Ice		
2	CB			1420	✓								
3	CC			1435	✓								
4	LDW-BA-SU-ENR-CA-CORE			1715	✓								
5	CB		2-4oz	1730	✓								
6	CC		1-16oz	1535	✓								
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

Relinquished by:	Recieved by:	Relinquished by:	Recieved by:	Matrix Codes
Print Name: Julia Levengood	Print Name: Kathy Ziop	Print Name:	Print Name:	FW = Fresh Water
Signature: [signature]	Signature: Kathy Ziop	Signature:	Signature:	SB = Salt & Brackish Water
Affiliation: Ramboll ENVIRON	Affiliation: Frontier Analytical	Affiliation:	Affiliation:	SS = Soil & Sediment
Date/Time: 11/30/16 1300	Date/Time: 12/1/16 1015	Date/Time:	Date/Time:	

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **10311**

Client:	Floyd | Snider
Client Project ID:	LDW ENR/AC Pilot Study
Date Received:	12/01/2016
Time Received:	10:15 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	6
Duplicates:	1
Storage Location:	F2

Method of Delivery:	Fed-Ex
Tracking Number:	777829616316
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
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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Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #: 10311 Sample #: 1 - 6 Client Manager: BS

Client: Floyd | Snider Hold Time: 11/26/2017

Matrix: Sediment Extraction Batch: 3953 Due Date: 12/23/2016

Method: EPA 1668 PCB Storage: ~~F2~~ R2

SOP: SOPs: EP1A Rev.10 IP1A Rev.8

COMMENTS/INSTRUCTIONS:

Results: 10311

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

Extract/s located in box: B. cereus

Standards: 10311

Sample #	Sample Sample Control -- Prep		Extract Prep -- Instrument		Extract Instrument -- Storage	
	Initial	Date	Initial	Date	Initial	Date
10311-004-0001-SA	KH	12.14.16	KH	12.15.16	DN	1.6.17
10311-002-0001-SA	↓	↓	↓	↓	↓	↓
10311-006-0001-SA	↓	↓	↓	↓	↓	↓
10311-001-0001-SA	↓	↓	↓	↓	↓	↓
10311-003-0001-SA	↓	↓	↓	↓	↓	↓
10311-005-0001-SA	↓	↓	↓	↓	↓	↓

L4 DATA package + Floyd Snider EDD

Frontier Analytical Laboratory
Percent Solids

FAL Project: 10311

Sample ID	Chemist	Date	Wet Sample Weight (g)	Dry Sample Weight (g)	% Solids	5g ~~10g~~ RR 12-5-16 Equiv	Wet Wt Oven Temp	Dry Wt Oven Temp	Boat Wt (gms)
10311-001-0001-SA	RR	12-2-16	15.85g	8.20g	51.74%	9.66g	115°c	110°c	1.28g
10311-002-0001-SA	↓	↓	17.97g	10.04g	55.87%	8.95g	↓	↓	1.30g
10311-003-0001-SA	↓	↓	11.72g	5.74g	48.98%	10.21g	↓	↓	1.31g
10311-004-0001-SA	↓	↓	18.35g	10.92g	59.51%	8.40g	↓	↓	1.29g
10311-005-0001-SA	↓	↓	10.94g	6.51g	59.51%	8.40g	↓	↓	1.28g
10311-006-0001-SA	↓	↓	14.58g	8.36g	57.34%	8.72g	↓	↓	1.28g

% Solids Summary:

Non-Filtered Determination

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

Filtered Determination

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

% Solids calculation

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

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

Frontier Analytical Laboratory
EXTRACTION SHEET

Project #: 10311 Extraction Date: 2016-12-14 Extraction Chemist: KH

Method/Analysis: EPA 1668 PCB

Procedure: SOX Solvent: DCM (Methylene Chloride)

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS Amt: 10.0uL ID: R161111A Vial: 2 Chemist/Witness/Date	NS Amt: 10.0uL ID: 161207A Vial: 1 Chemist/Witness/Date	CSS Amt: 10.0uL ID: R161111C Vial: 1 Chemist/Witness/Date
9396 03953-001-0001-MB					
03953-001-0001-OPR					
10311-001-0001-SA	9.76g	5.05g	KH 12:14:16	NA	KH 12:15:16
10311-002-0001-SA	9.02g	5.04g			
10311-003-0001-SA	10.45g	5.12g			
10311-004-0001-SA	8.56g	5.09g			
10311-005-0001-SA	8.59g	5.11g			
10311-006-0001-SA	8.76g	5.02g			

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:

Frontier Analytical Laboratory
CLEANUP SHEET

Project #: 10311

Method/Analysis: EPA 1668 PCB

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

Sample ID	Cleanup 1	Cleanup 2	Cleanup 3	RS
	PCB·MSG	NA	NA	Amt: 10.0uL ID: 161208A Vial: 1
	Chemist/Date	Chemist/Date	Chemist/Date	Chemist/Witness/Date
03953-001-0001-MB				
03953-001-0001-OPR				
10311-001-0001-SA	KH 12·15·16	NA	NA	KH 12·15·16
10311-002-0001-SA				
10311-003-0001-SA				
10311-004-0001-SA				
10311-005-0001-SA				
10311-006-0001-SA				

13916

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: 03953-001-0001-MB Filename: 05JAN17Z Sam:3 Acquired: 5-JAN-17 12:17:47 ICal: DAILY209FAL4-1-5-17
Client ID: Method Blank ConCal: ST01051 7Z1 EndCal: ST01051 7Z2
Results: 9402-10 GC Column: DB1 Amount: 5.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	* n	NotFnd	0.92	*		2140	1640	1.31	
13C-PCB-1	4.83e+07	3.09 y	14:30	1.09	1960					98.1
PCB-2	*	* n	NotFnd	0.87	*		2140	1640	1.42	
PCB-3	*	* n	NotFnd	0.92	*		2140	1640	1.39	
13C-PCB-3	4.78e+07	3.16 y	16:57	1.14	1860					93.2
PCB-4	*	* n	NotFnd	1.17	*		1680	1800	1.89	
PCB-10	*	* n	NotFnd	0.99	*		1680	1800	1.90	
13C-PCB-4	2.69e+07	1.58 y	18:11	0.62	1920					95.8
PCB-9	*	* n	NotFnd	1.11	*		1680	1800	1.67	
PCB-7	*	* n	NotFnd	1.13	*		1680	1800	1.65	
PCB-6	*	* n	NotFnd	1.11	*		1680	1800	1.68	
PCB-8	*	* n	NotFnd	1.12	*		1680	1800	1.66	
PCB-5	*	* n	NotFnd	1.08	*		1680	1800	1.72	
PCB-14	*	* n	NotFnd	1.11	*		1680	1800	1.68	
PCB-11	*	* n	NotFnd	1.08	*		1680	1800	1.73	
PCB-13	*	* n	NotFnd	1.09	*		1680	1800	1.71	
PCB-12	*	* n	NotFnd	1.06	*		1680	1800	1.77	
PCB-15	*	* n	NotFnd	1.00	*		1680	1800	1.65	
13C-PCB-15	4.29e+07	1.57 y	23:45	1.03	1850					92.3
PCB-19	*	* n	NotFnd	0.95	*		1220	636	1.32	
PCB-30	*	* n	NotFnd	1.39	*		1220	636	0.907	
PCB-18	*	* n	NotFnd	0.97	*		1220	636	1.30	
PCB-17	*	* n	NotFnd	1.04	*		1220	636	1.21	
PCB-27	*	* n	NotFnd	1.37	*		1220	636	0.919	
PCB-24	*	* n	NotFnd	1.37	*		1220	636	0.919	
PCB-16	*	* n	NotFnd	1.12	*		1220	636	1.13	
PCB-32	*	* n	NotFnd	1.25	*		1220	636	1.01	
13C-PCB-19	2.72e+07	1.09 y	22:05	0.65	1850					92.7
13C-PCB-9	4.51e+07	1.58 y	19:53	-	9.84					
PCB-34	*	* n	NotFnd	0.86	*		1030	468	1.16	
PCB-23	*	* n	NotFnd	0.99	*		1030	468	1.01	
PCB-29	*	* n	NotFnd	1.01	*		1030	468	0.991	
PCB-26	*	* n	NotFnd	0.98	*		1030	468	1.02	
PCB-25	*	* n	NotFnd	1.19	*		1030	468	0.841	
PCB-31	*	* n	NotFnd	1.04	*		1030	468	0.960	
PCB-28	*	* n	NotFnd	1.10	*		1030	468	0.908	
PCB-20	*	* n	NotFnd	1.04	*		1030	468	0.963	Co-elute PCB 21/33
PCB-21	*	* n	NotFnd	1.04	*		1030	468	0.963	Co-elute PCB 20/33
PCB-33	*	* n	NotFnd	1.04	*		1030	468	0.963	Co-elute PCB 20/21
PCB-22	*	* n	NotFnd	1.03	*		1030	468	0.967	
PCB-36	*	* n	NotFnd	0.99	*		1030	468	1.01	
PCB-39	*	* n	NotFnd	0.99	*		1030	468	1.01	
PCB-38	*	* n	NotFnd	1.00	*		1030	468	0.998	
PCB-35	*	* n	NotFnd	0.94	*		1030	468	1.07	
PCB-37	*	* n	NotFnd	1.06	*		1030	468	0.945	
13C-PCB-37	3.34e+07	1.09 y	30:25	1.18	1870					93.7

FAL ID: 03953-001-0001-MB Filename: 05JAN17Z Sam:3 Acquired: 5-JAN-17 ICal: DAILY209FAL4-1-5-17
Client ID: Method Blank ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.000

PCB-54	*	*	n	NotFnd	0.99	*	684	872	0.986	
PCB-50	*	*	n	NotFnd	0.77	*	684	872	1.27	
PCB-53	*	*	n	NotFnd	0.77	*	684	872	1.27	
PCB-51	*	*	n	NotFnd	0.78	*	684	872	1.25	
PCB-45	*	*	n	NotFnd	0.68	*	684	872	1.43	
PCB-46	*	*	n	NotFnd	0.64	*	684	872	1.52	
PCB-52	*	*	n	NotFnd	1.01	*	684	872	0.965	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	1.01	*	684	872	0.965	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	0.89	*	684	872	1.09	
PCB-43	*	*	n	NotFnd	0.76	*	684	872	1.28	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.76	*	684	872	1.28	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.95	*	684	872	1.03	
PCB-48	*	*	n	NotFnd	0.96	*	684	872	1.02	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	0.96	*	684	872	1.02	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.00	*	684	872	0.980	
PCB-62	*	*	n	NotFnd	0.93	*	684	872	1.05	
PCB-44	*	*	n	NotFnd	0.69	*	684	872	1.41	
PCB-42	*	*	n	NotFnd	0.94	*	684	872	1.04	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.94	*	684	872	1.04	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	1.02	*	684	872	0.957	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	1.02	*	684	872	0.957	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	1.02	*	684	872	0.957	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	1.02	*	684	872	0.957	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	1.10	*	684	872	0.890	
PCB-40	*	*	n	NotFnd	0.59	*	684	872	1.65	
PCB-57	*	*	n	NotFnd	1.04	*	684	872	0.942	
PCB-67	*	*	n	NotFnd	0.98	*	684	872	0.999	
PCB-58	*	*	n	NotFnd	1.11	*	684	872	0.884	
PCB-63	*	*	n	NotFnd	1.03	*	684	872	0.951	
PCB-74	*	*	n	NotFnd	1.07	*	684	872	0.912	
PCB-61	*	*	n	NotFnd	1.12	*	684	872	0.873	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	1.12	*	684	872	0.873	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.07	*	684	872	0.918	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.07	*	684	872	0.918	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.19	*	684	872	0.825	
PCB-55	*	*	n	NotFnd	1.06	*	684	872	0.922	
13C-PCB-54	3.24e+07	0.80	y	25:38	1.05	2030				102
PCB-104	*	*	n	NotFnd	1.04	*	668	710	1.02	
PCB-96	*	*	n	NotFnd	0.98	*	668	710	1.09	
PCB-103	*	*	n	NotFnd	0.83	*	668	710	1.28	
PCB-100	*	*	n	NotFnd	0.82	*	668	710	1.29	
PCB-94	*	*	n	NotFnd	0.68	*	668	710	1.56	
PCB-98	*	*	n	NotFnd	0.87	*	668	710	1.22	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.87	*	668	710	1.22	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.71	*	668	710	1.50	
PCB-93	*	*	n	NotFnd	0.67	*	668	710	1.58	
PCB-88	*	*	n	NotFnd	0.77	*	668	710	1.38	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.77	*	668	710	1.38	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.96	*	668	710	1.11	
13C-PCB-104	2.67e+07	1.58	y	30:05	0.92	1920				96.2
13C-PCB-28	4.04e+07	1.09	y	26:44	1.30	2060				103
13C-PCB-52	3.02e+07	0.79	y	28:59	-	9.26				

PCB-56	*	*	n	NotFnd	1.01	*	464	632	0.933	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.01	*	464	632	0.933	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.04	*	464	632	0.909	
PCB-78	*	*	n	NotFnd	0.99	*	464	632	0.952	
PCB-81	*	*	n	NotFnd	1.06	*	464	632	0.925	
13C-PCB-81	2.72e+07	0.78	y	36:11	1.07	1870				93.4
PCB-77	*	*	n	NotFnd	0.98	*	464	632	0.927	
13C-PCB-77	2.75e+07	0.79	y	36:45	1.08	1860				93.2
PCB-155	*	*	n	NotFnd	0.98	*	844	616	1.06	
PCB-150	*	*	n	NotFnd	0.89	*	844	616	1.16	
PCB-152	*	*	n	NotFnd	0.87	*	844	616	1.19	
PCB-145	*	*	n	NotFnd	0.85	*	844	616	1.21	
PCB-136	*	*	n	NotFnd	0.87	*	844	616	1.19	
PCB-148	*	*	n	NotFnd	0.64	*	844	616	1.63	
PCB-154	*	*	n	NotFnd	0.77	*	844	616	1.34	
13C-PCB-155	2.99e+07	1.27	y	34:15	1.11	1970				98.7
13C-PCB-111	3.12e+07	1.57	y	36:21	1.14	2010				100
13C-PCB-101	2.73e+07	1.58	y	34:41	-	8.91				
PCB-84	*	*	n	NotFnd	0.79	*	896	790	1.99	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.79	*	896	790	1.99	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.76	*	896	790	2.07	
PCB-90	*	*	n	NotFnd	0.87	*	896	790	1.81	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.87	*	896	790	1.81	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.99	*	896	790	1.58	
PCB-99	*	*	n	NotFnd	0.97	*	896	790	1.62	
PCB-119	*	*	n	NotFnd	1.13	*	896	790	1.39	
PCB-83	*	*	n	NotFnd	0.87	*	896	790	1.79	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.87	*	896	790	1.79	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.05	*	896	790	1.49	
PCB-97	*	*	n	NotFnd	0.95	*	896	790	1.65	
PCB-86	*	*	n	NotFnd	0.76	*	896	790	2.05	
PCB-125	*	*	n	NotFnd	1.00	*	896	790	1.57	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	1.00	*	896	790	1.57	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	1.00	*	896	790	1.57	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.21	*	896	790	1.30	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.21	*	896	790	1.30	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.95	*	896	790	1.65	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.95	*	896	790	1.65	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.17	*	896	790	1.34	
PCB-110	*	*	n	NotFnd	1.15	*	896	790	1.36	
PCB-82	*	*	n	NotFnd	0.66	*	896	790	2.39	
PCB-124	*	*	n	NotFnd	0.92	*	656	650	1.33	
PCB-108	*	*	n	NotFnd	1.02	*	656	650	1.19	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.02	*	656	650	1.19	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.10	*	656	650	1.12	
13C-PCB-123	2.45e+07	1.58	y	38:23	1.05	1990				99.4
PCB-118	*	*	n	NotFnd	0.92	*	656	650	1.31	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	0.92	*	656	650	1.31	Co-elute PCB 118
13C-PCB-118	2.57e+07	1.62	y	38:35	1.10	2000				100
PCB-114	*	*	n	NotFnd	0.95	*	656	650	1.28	
13C-PCB-114	2.48e+07	1.64	y	39:11	1.05	2020				101
PCB-122	*	*	n	NotFnd	1.02	*	656	650	1.19	
PCB-105	*	*	n	NotFnd	0.99	*	656	650	1.21	
13C-PCB-105	2.47e+07	1.62	y	40:00	1.06	1980				99.2

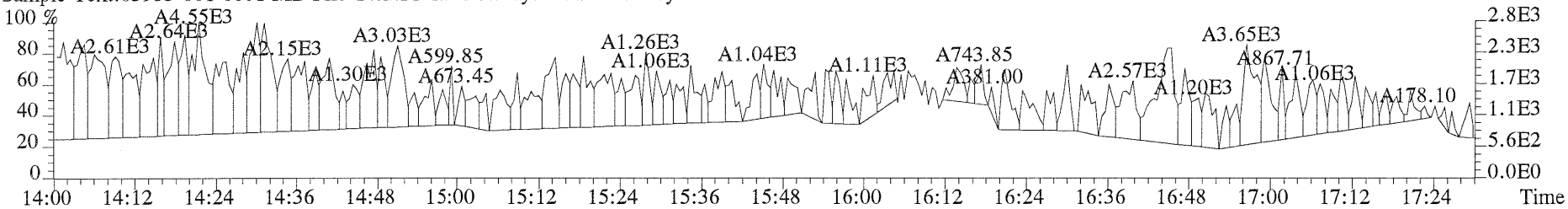
PCB-127	*	*	n	NotFnd	0.92	*		656	650	1.32	
PCB-126	*	*	n	NotFnd	1.00	*		656	650	1.42	
13C-PCB-126	2.21e+07	1.61	y	42:09	1.00	1890					94.4
PCB-151	*	*	n	NotFnd	0.67	*		740	696	2.07	
PCB-135	*	*	n	NotFnd	0.72	*		740	696	1.95	
PCB-144	*	*	n	NotFnd	0.67	*		740	696	2.07	
PCB-147	*	*	n	NotFnd	0.76	*		740	696	1.83	
PCB-139	*	*	n	NotFnd	0.76	*		740	696	1.84	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	0.76	*		740	696	1.84	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.73	*		740	696	1.90	
PCB-143	*	*	n	NotFnd	0.69	*		740	696	2.02	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.69	*		740	696	2.02	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.71	*		740	696	1.97	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.71	*		740	696	1.97	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.62	*		740	696	2.24	
PCB-165	*	*	n	NotFnd	0.85	*		740	696	1.64	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	0.85	*		740	696	1.64	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	0.79	*		740	696	1.78	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	0.79	*		740	696	1.78	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	0.84	*		740	696	1.66	
PCB-168	*	*	n	NotFnd	0.91	*		740	696	1.53	
PCB-141	*	*	n	NotFnd	0.74	*		740	696	1.90	
PCB-137	*	*	n	NotFnd	0.65	*		740	696	2.15	
PCB-130	*	*	n	NotFnd	0.69	*		740	696	2.03	
PCB-138	*	*	n	NotFnd	0.95	*		740	696	1.47	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	0.95	*		740	696	1.47	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	0.95	*		740	696	1.47	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	0.94	*		740	696	1.49	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	0.94	*		740	696	1.49	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.59	*		740	696	2.38	
PCB-166	*	*	n	NotFnd	0.90	*		740	696	1.55	
PCB-159	*	*	n	NotFnd	0.96	*		740	696	1.45	
PCB-128	*	*	n	NotFnd	0.81	*		740	696	1.72	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	0.81	*		740	696	1.72	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	0.88	*		740	696	1.58	
13C-PCB-167	2.56e+07	1.23	y	43:31	1.16	1900					94.8
PCB-156	*	*	n	NotFnd	0.92	*		740	696	1.61	
13C-PCB-156	2.43e+07	1.24	y	44:45	1.11	1880					94.2
PCB-157	*	*	n	NotFnd	0.94	*		740	696	1.44	
13C-PCB-157	2.56e+07	1.26	y	44:60	1.14	1920					95.9
PCB-169	*	*	n	NotFnd	0.89	*		740	696	1.53	
13C-PCB-169	2.25e+07	1.24	y	46:52	1.10	1760					87.8

FAL ID: 03953-001-0001-MB Filename: 05JAN17Z Sam:3 Acquired: 5-JAN-17 12:17:47 ICal: DAILY209FAL4-1-5-17
Client ID: Method Blank ConCal: ST01051 7Z1 EndCal: ST01051 7Z2
Results: 9402-10 GC Column: DB1 Amount: 5.000

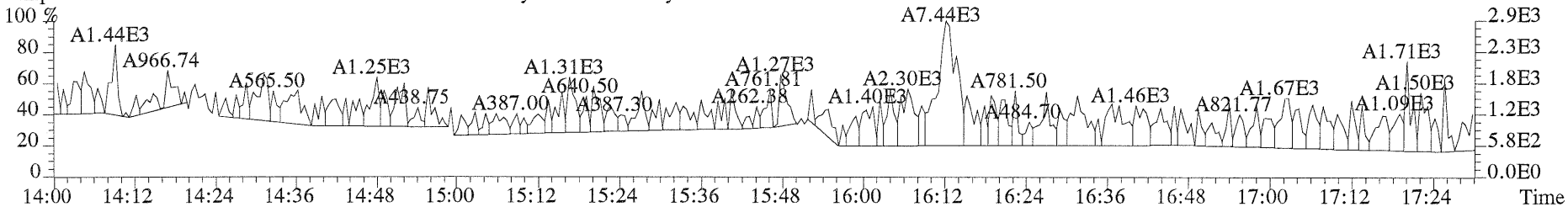
PCB-188	*	*	n	NotFnd	1.04	*	868	556	1.03	
13C-PCB-188	2.86e+07	1.06	y	39:45	1.22	2010				101
PCB-184	*	*	n	NotFnd	1.08	*	868	556	0.981	
PCB-179	*	*	n	NotFnd	1.03	*	868	556	1.03	
PCB-176	*	*	n	NotFnd	1.01	*	868	556	1.05	
PCB-186	*	*	n	NotFnd	1.00	*	868	556	1.05	
PCB-178	*	*	n	NotFnd	0.73	*	868	556	1.44	
PCB-175	*	*	n	NotFnd	0.76	*	868	556	1.39	
PCB-187	*	*	n	NotFnd	0.84	*	868	556	1.26	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.84	*	868	556	1.26	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.83	*	868	556	1.28	
PCB-185	*	*	n	NotFnd	0.77	*	868	556	1.37	
PCB-174	*	*	n	NotFnd	0.76	*	868	556	1.40	
PCB-181	*	*	n	NotFnd	0.77	*	868	556	1.37	
PCB-177	*	*	n	NotFnd	0.69	*	868	556	1.52	
PCB-171	*	*	n	NotFnd	0.73	*	868	556	1.45	
PCB-173	*	*	n	NotFnd	0.67	*	868	556	1.59	
PCB-172	*	*	n	NotFnd	0.69	*	868	556	1.53	
PCB-192	*	*	n	NotFnd	0.91	*	868	556	1.17	
PCB-180	*	*	n	NotFnd	0.92	*	868	556	1.15	
PCB-193	*	*	n	NotFnd	0.97	*	868	556	1.09	
PCB-191	*	*	n	NotFnd	0.97	*	868	556	1.09	
PCB-170	*	*	n	NotFnd	0.68	*	868	556	1.55	
PCB-190	*	*	n	NotFnd	0.93	*	868	556	1.13	
PCB-189	*	*	n	NotFnd	0.99	*	868	556	1.05	
13C-PCB-189	2.41e+07	1.09	y	48:32	1.10	1880				93.8
PCB-202	*	*	n	NotFnd	0.86	*	428	568	0.983	
PCB-201	*	*	n	NotFnd	0.86	*	428	568	0.976	
PCB-204	*	*	n	NotFnd	0.87	*	428	568	0.964	
PCB-197	*	*	n	NotFnd	0.88	*	428	568	0.955	
PCB-200	*	*	n	NotFnd	0.88	*	428	568	0.953	
PCB-198	*	*	n	NotFnd	0.65	*	428	568	1.29	
PCB-199	*	*	n	NotFnd	0.60	*	428	568	1.41	
PCB-203	*	*	n	NotFnd	0.68	*	428	568	1.24	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.68	*	428	568	1.24	Co-elute PCB 203
13C-PCB-202	2.55e+07	0.90	y	44:53	1.09	2000				100
13C-PCB-178	2.05e+07	1.07	y	42:25	0.89	1970				98.6
13C-PCB-138	2.33e+07	1.27	y	41:37	-	8.62				
PCB-195	*	*	n	NotFnd	0.70	*	372	436	1.01	
PCB-194	*	*	n	NotFnd	0.75	*	372	436	0.937	
PCB-205	*	*	n	NotFnd	0.98	*	372	436	0.720	
13C-PCB-205	2.03e+07	0.91	y	50:14	1.24	1940				96.9
PCB-208	*	*	n	NotFnd	0.90	*	272	208	0.352	
13C-PCB-208	2.32e+07	0.80	y	49:15	1.34	2050				103
PCB-207	*	*	n	NotFnd	0.98	*	272	208	0.397	
PCB-206	*	*	n	NotFnd	0.92	*	272	208	0.539	
13C-PCB-206	1.61e+07	0.79	y	51:29	0.96	1980				98.9
PCB-209	*	*	n	NotFnd	0.97	*	288	260	0.504	
13C-PCB-209	2.32e+07	1.20	y	52:45	1.40	1970				98.7
13C-PCB-194	1.69e+07	0.92	y	49:58	-	8.43				

Analyst: _____ Date: 1/6/17

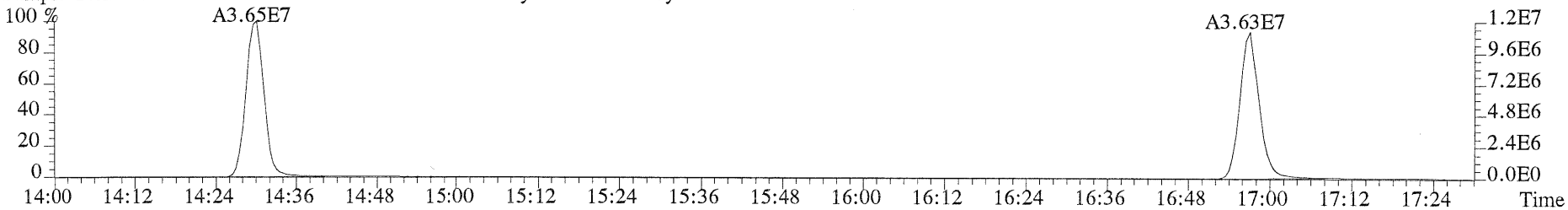
File:05JAN17Z #1-784 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



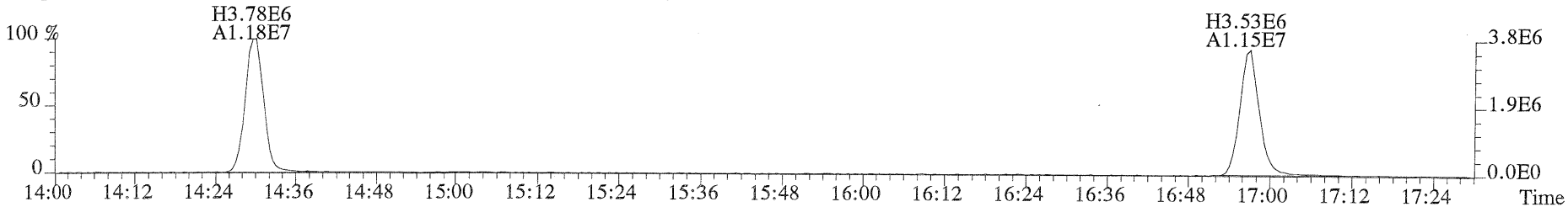
File:05JAN17Z #1-784 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



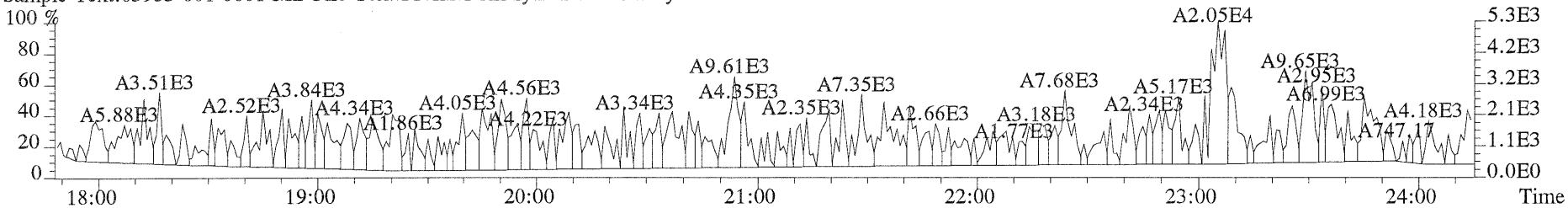
File:05JAN17Z #1-784 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



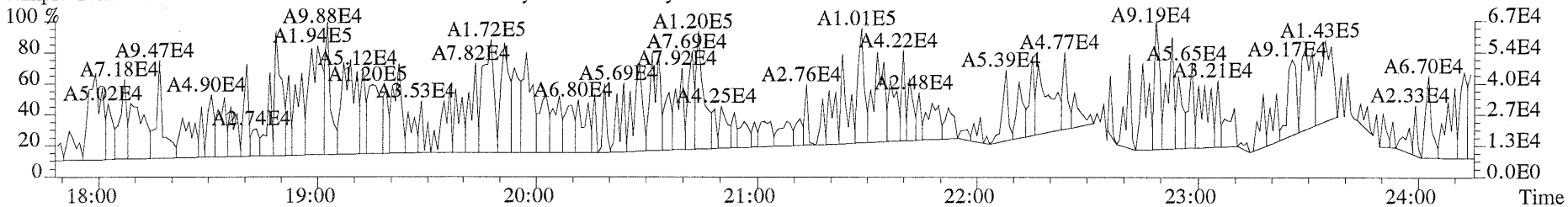
File:05JAN17Z #1-784 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



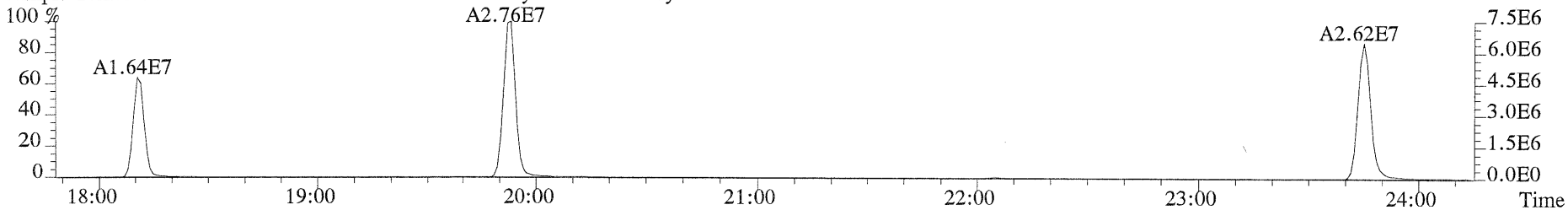
File:05JAN17Z #1-509 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



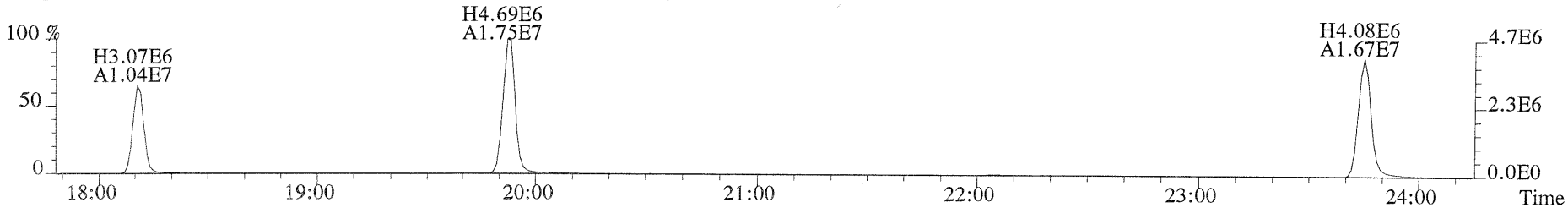
File:05JAN17Z #1-509 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



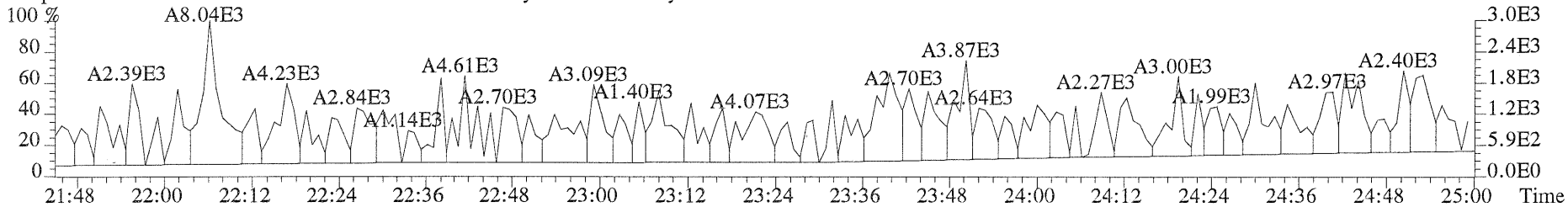
File:05JAN17Z #1-509 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



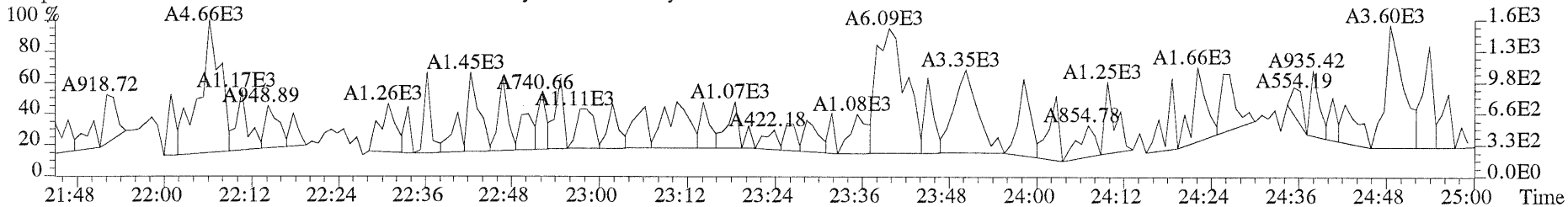
File:05JAN17Z #1-509 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



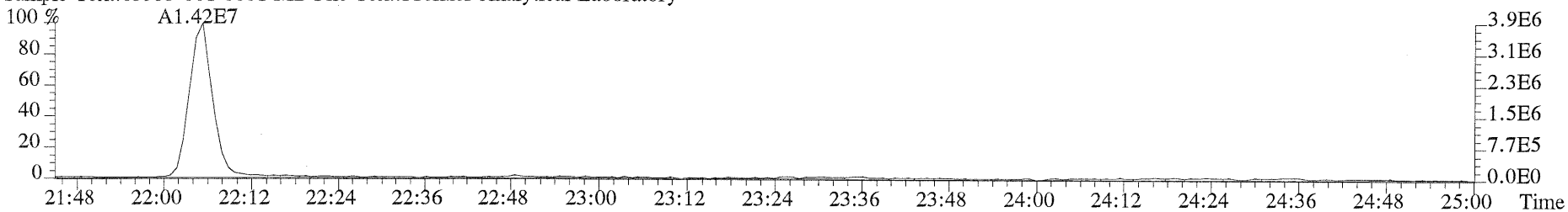
File:05JAN17Z #1-509 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



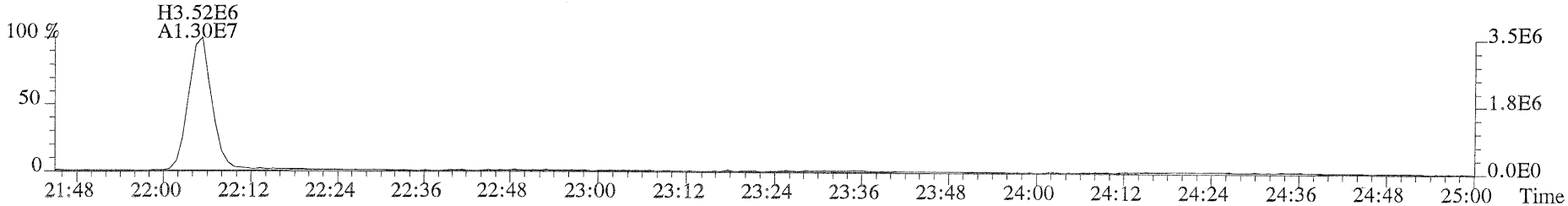
File:05JAN17Z #1-509 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



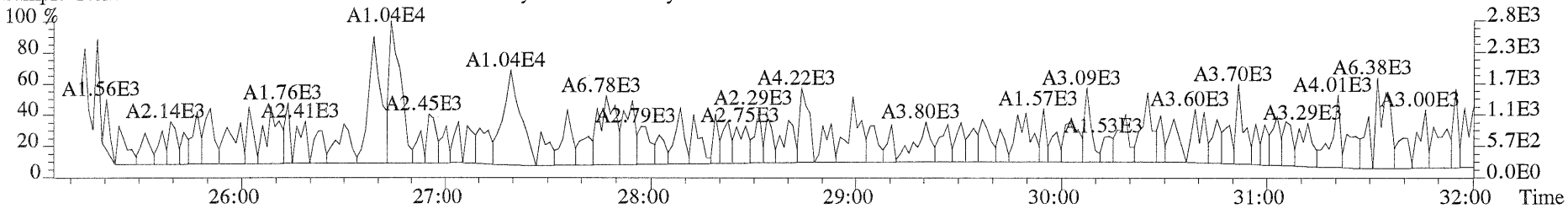
File:05JAN17Z #1-509 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



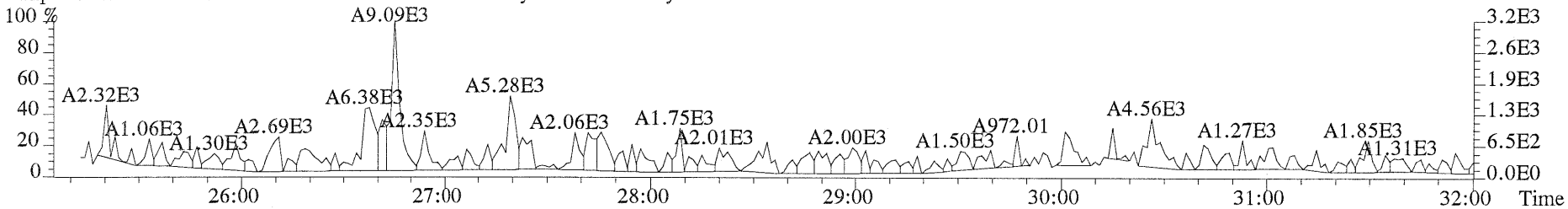
File:05JAN17Z #1-509 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



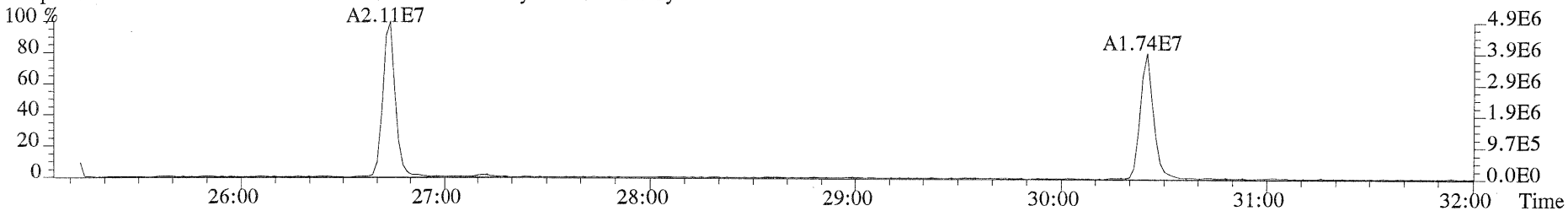
File:05JAN17Z #1-407 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



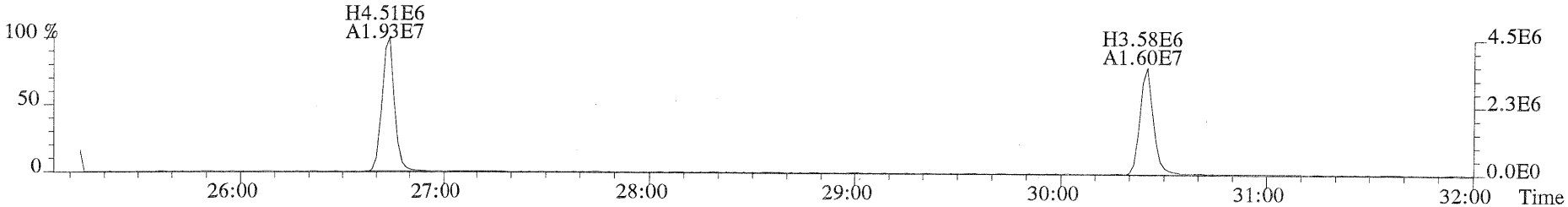
File:05JAN17Z #1-407 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



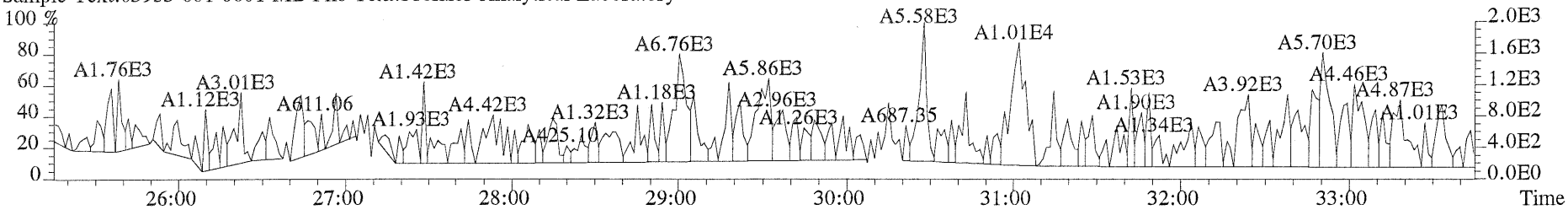
File:05JAN17Z #1-407 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



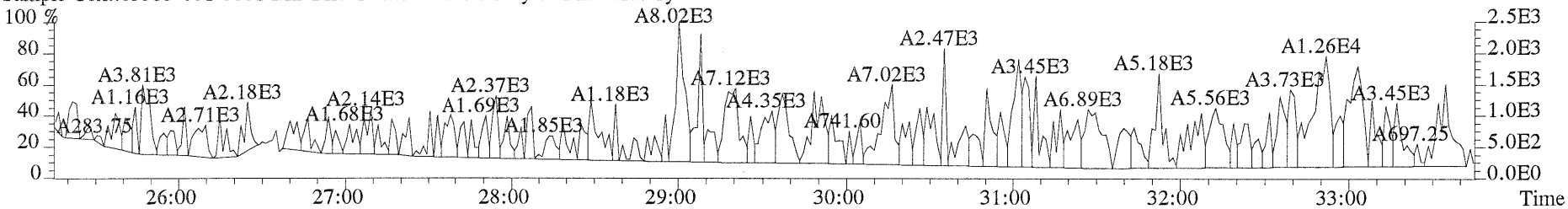
File:05JAN17Z #1-407 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



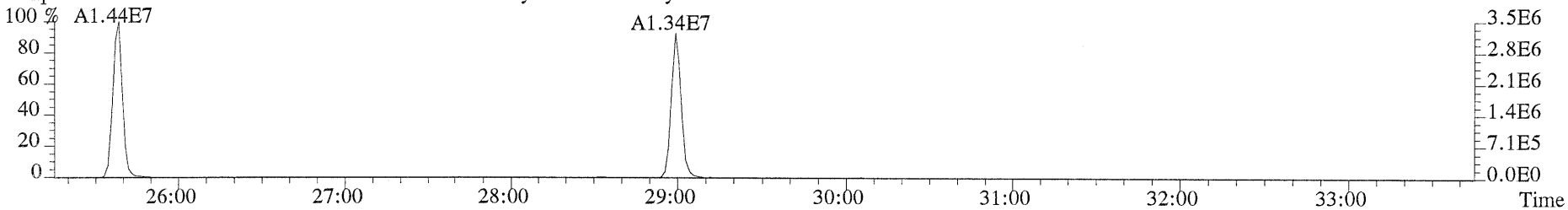
File:05JAN17Z #1-407 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



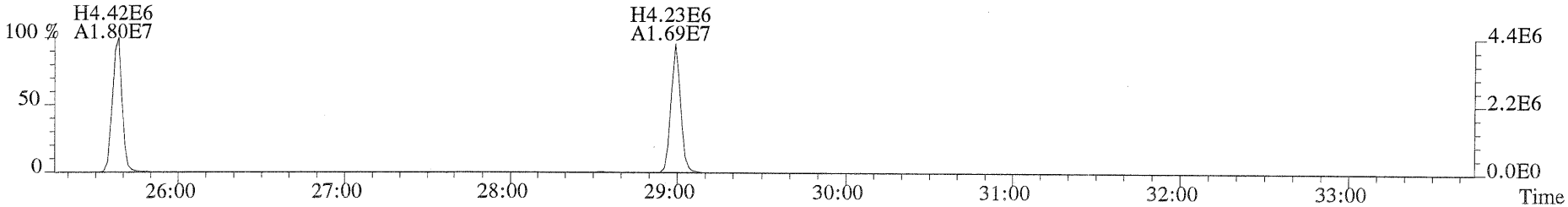
File:05JAN17Z #1-407 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



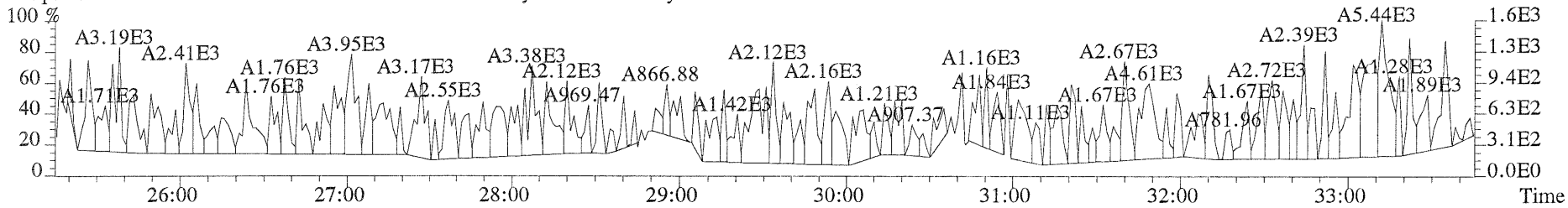
File:05JAN17Z #1-407 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



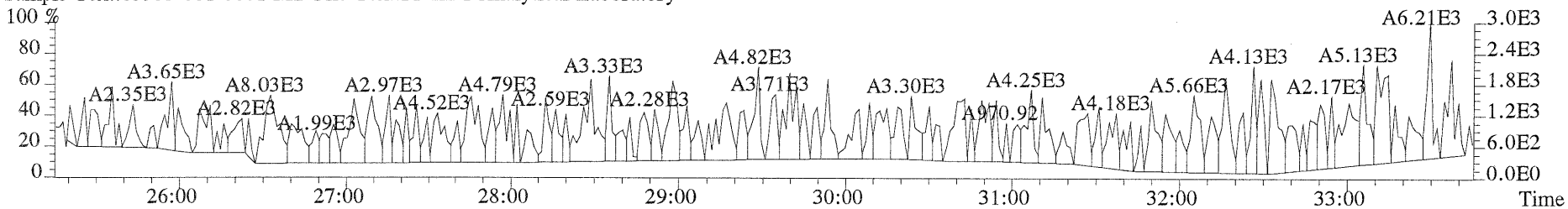
File:05JAN17Z #1-407 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



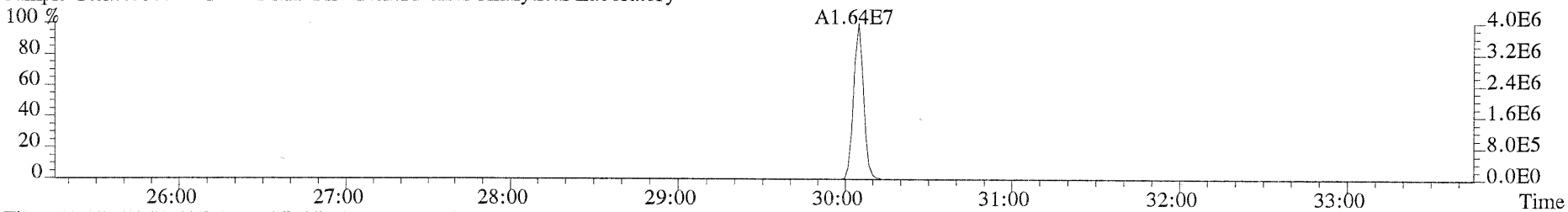
File:05JAN17Z #1-407 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



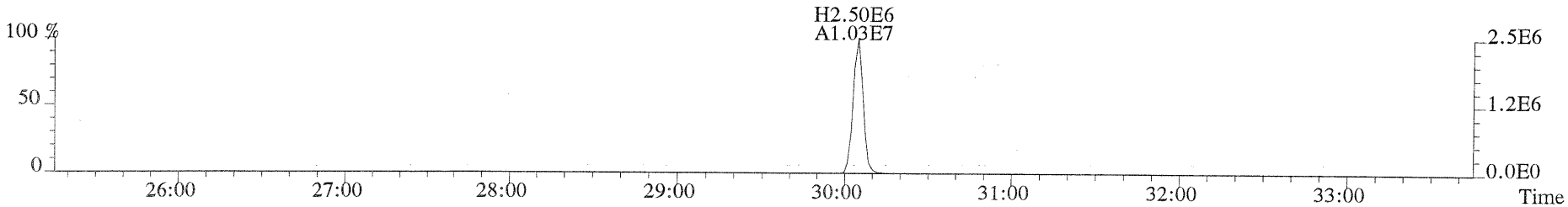
File:05JAN17Z #1-407 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-407 Acq: 5-JAN-2017 12:17:47 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:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-407 Acq: 5-JAN-2017 12:17:47 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:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 12:17:47 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
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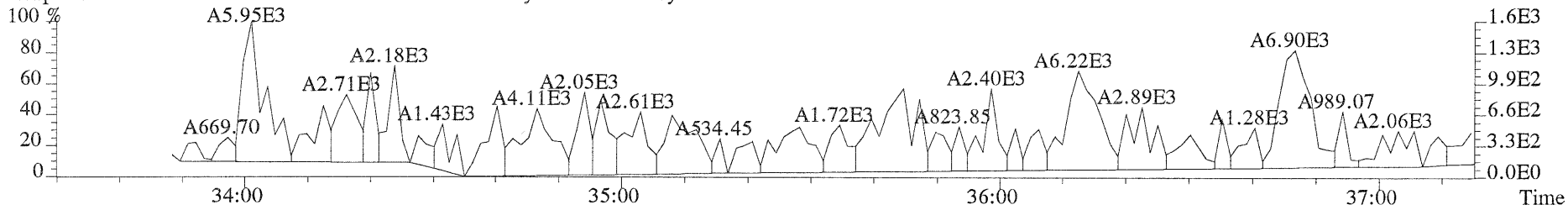

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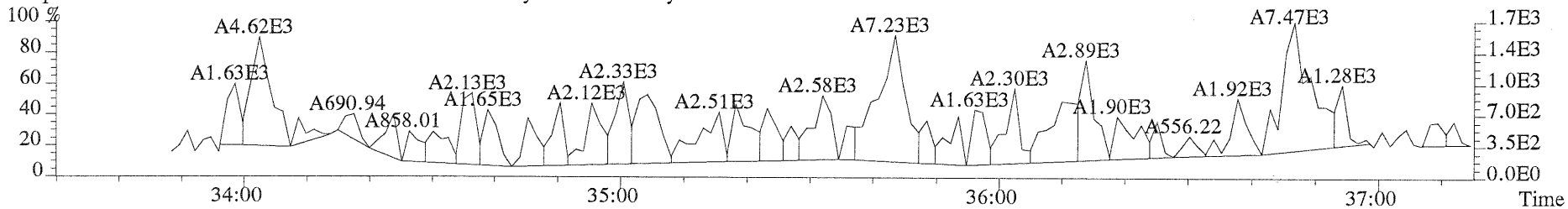

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301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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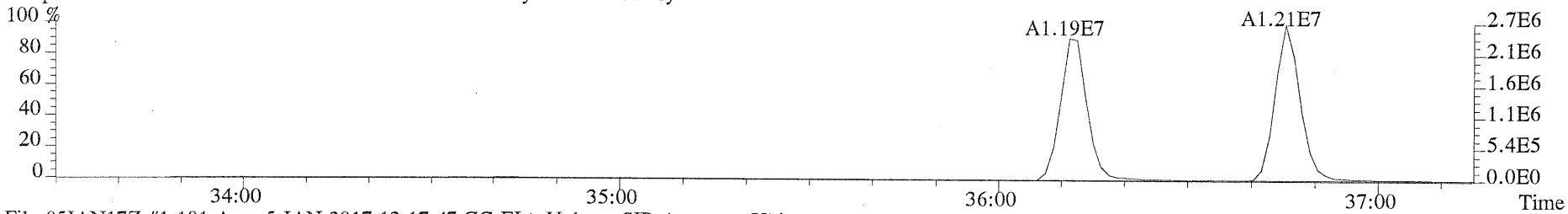

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303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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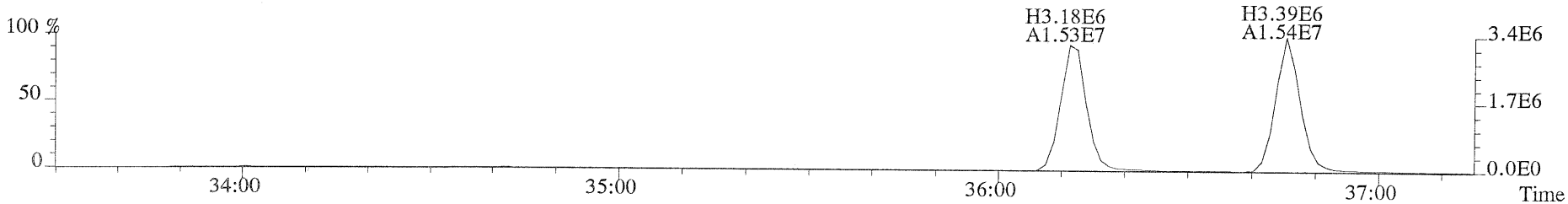
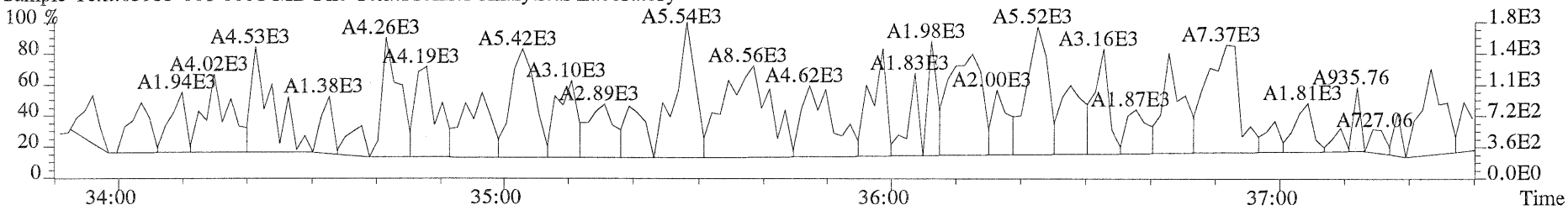
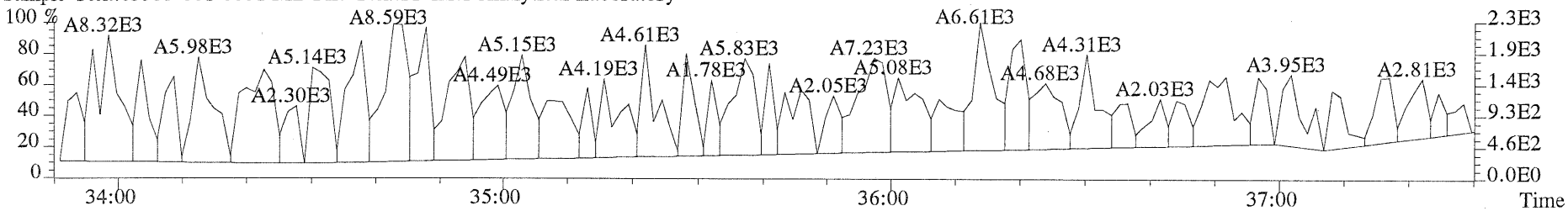


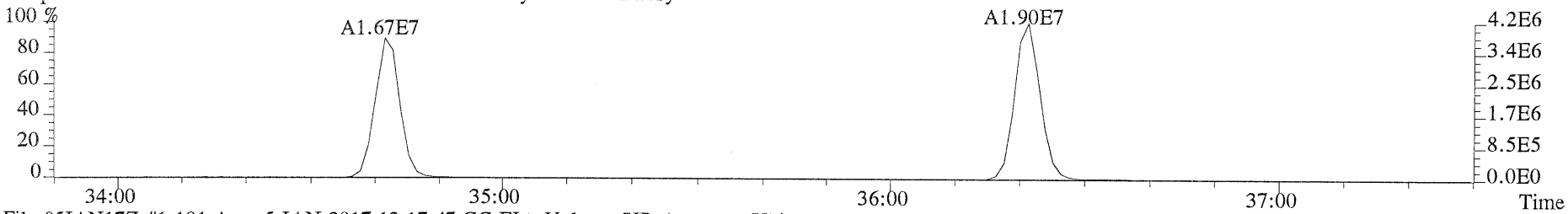
File:05JAN17Z #1-181 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 12:17:47 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:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 12:17:47 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:03953-001-0001-MB File Text:Frontier Analytical Laboratory



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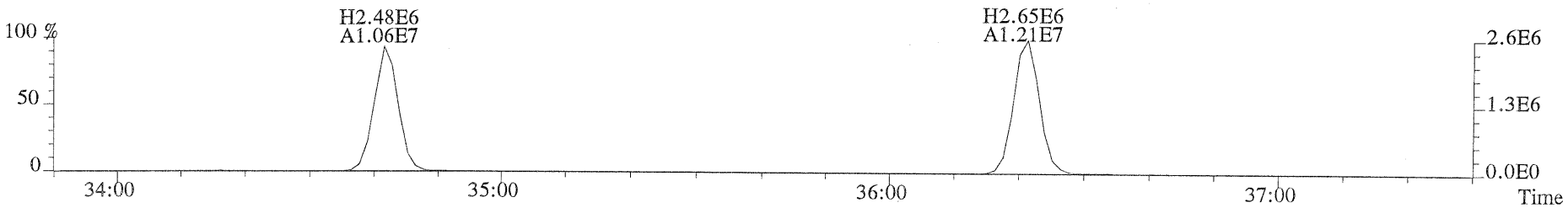
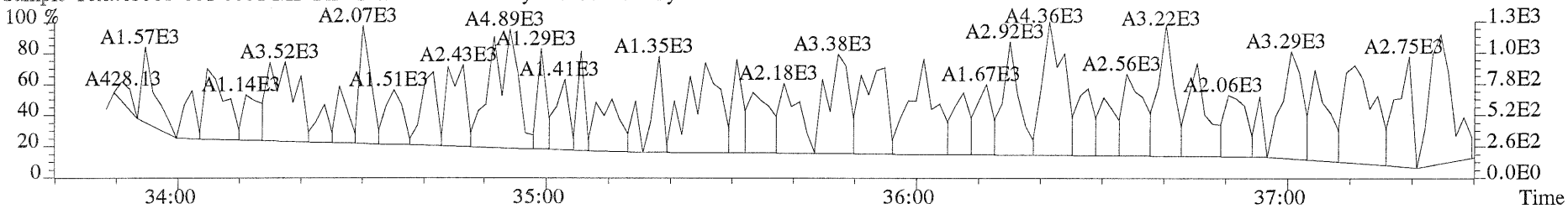
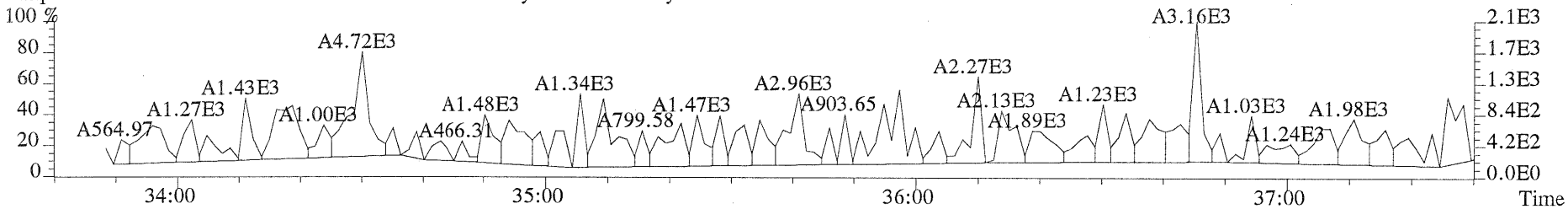
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



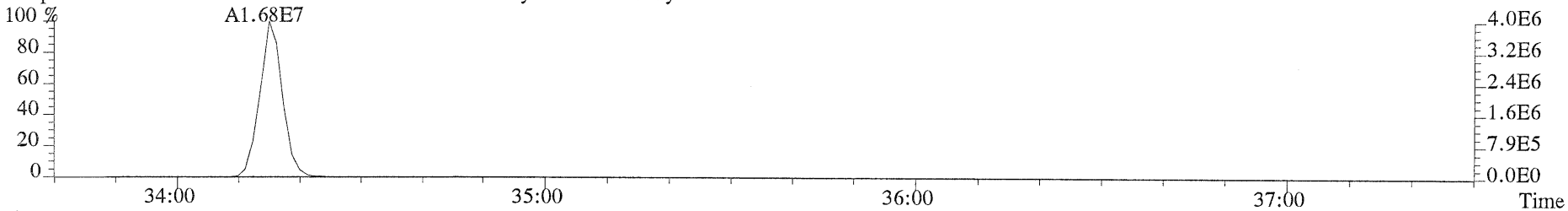
File:05JAN17Z #1-181 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 12:17:47 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:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 12:17:47 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:03953-001-0001-MB File Text:Frontier Analytical Laboratory



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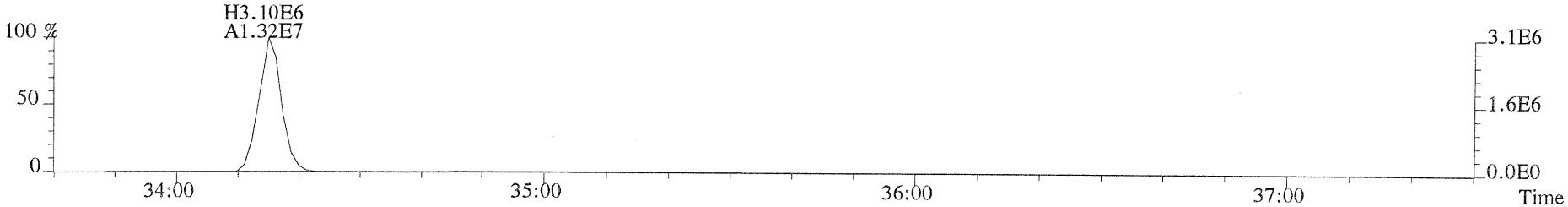
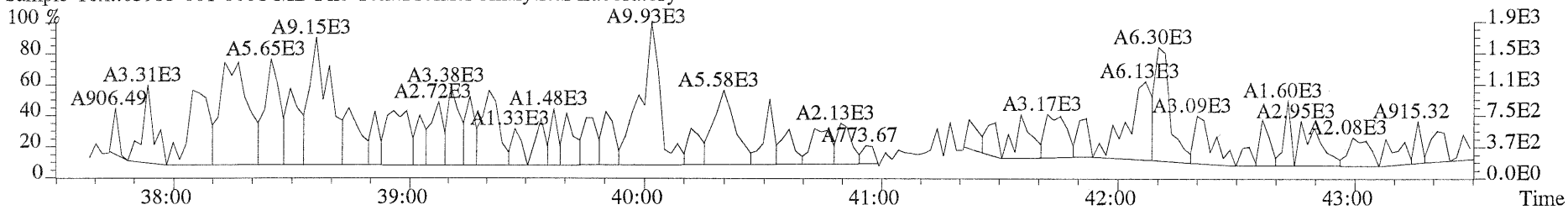
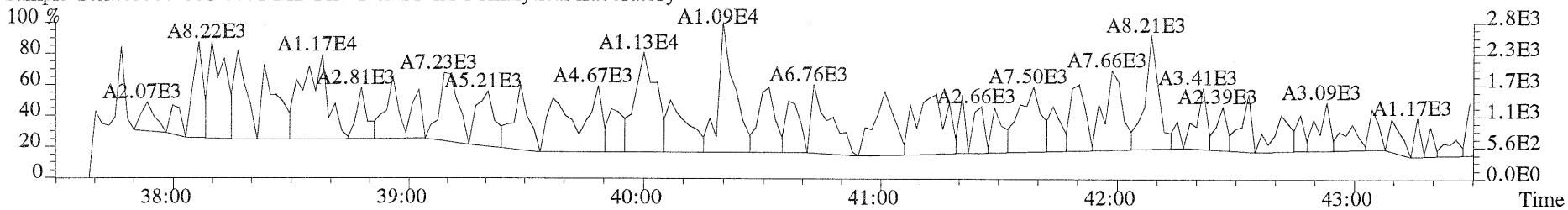
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-412 Acq: 5-JAN-2017 12:17:47 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:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-412 Acq: 5-JAN-2017 12:17:47 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:03953-001-0001-MB File Text:Frontier Analytical Laboratory



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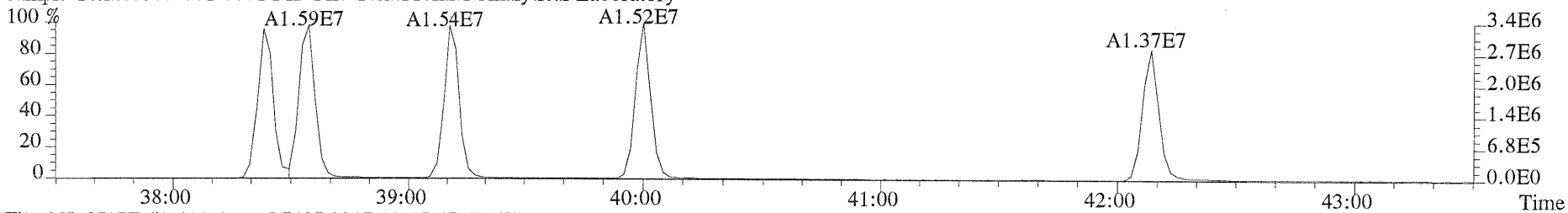
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



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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
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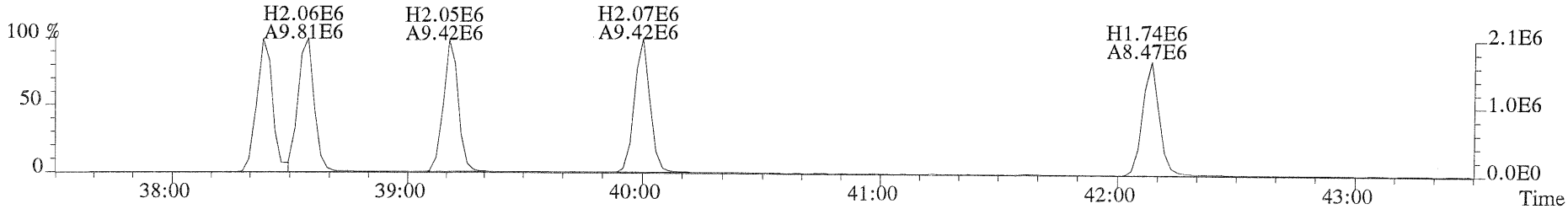
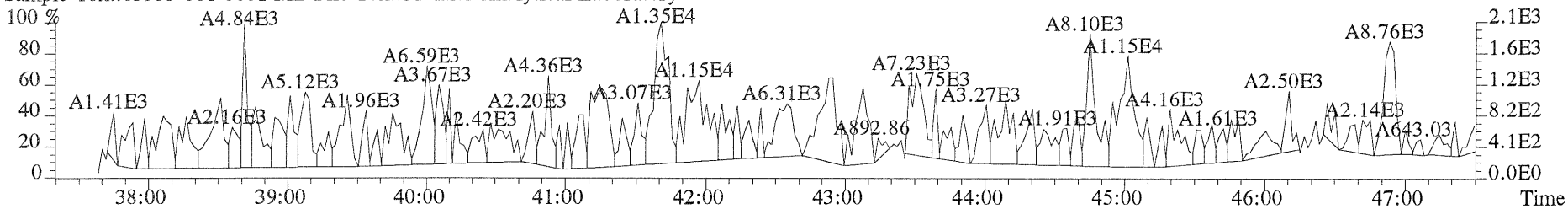
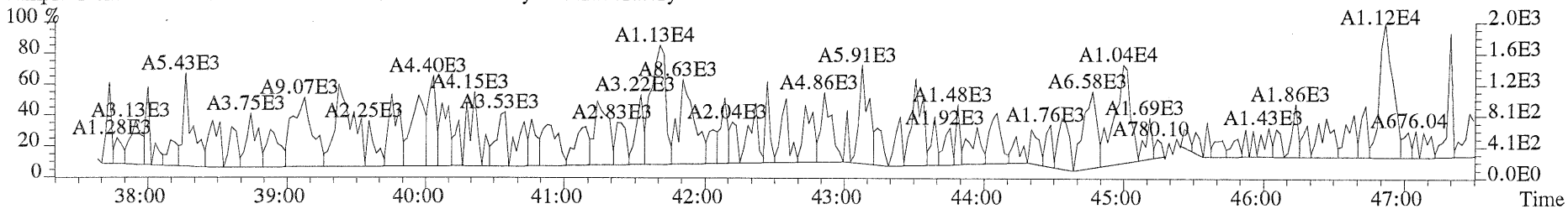


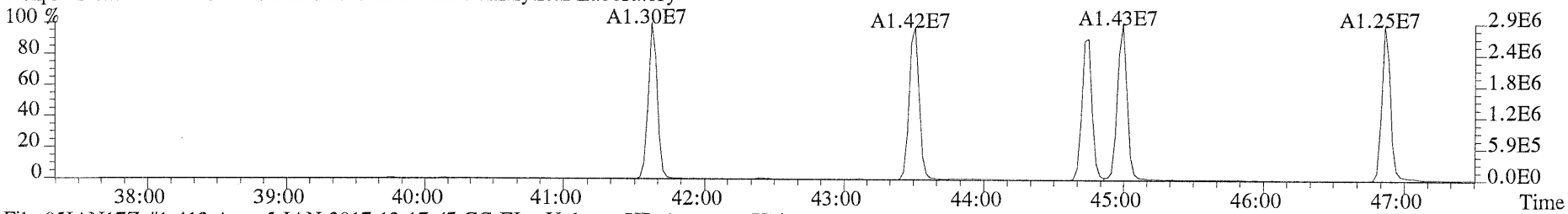
File:05JAN17Z #1-412 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-412 Acq: 5-JAN-2017 12:17:47 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:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-412 Acq: 5-JAN-2017 12:17:47 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:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-412 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
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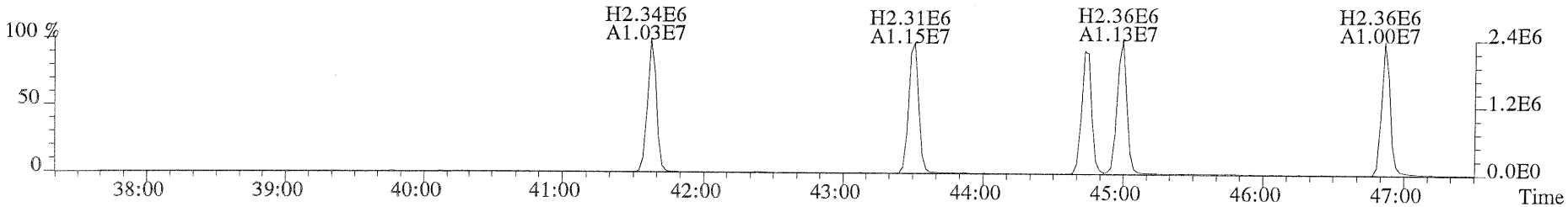
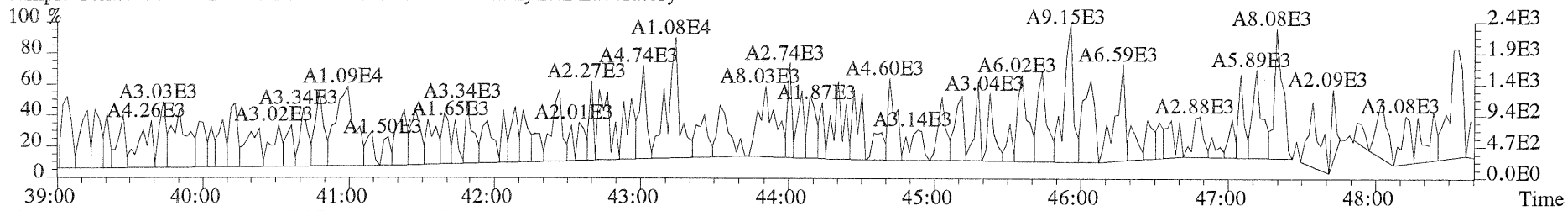


File:05JAN17Z #1-412 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



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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
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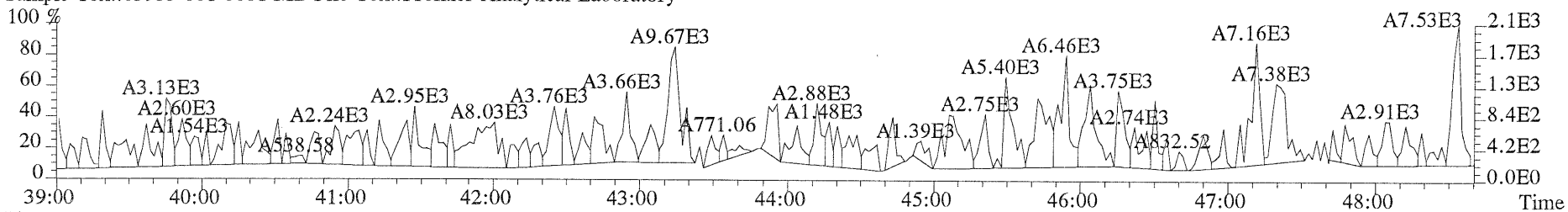

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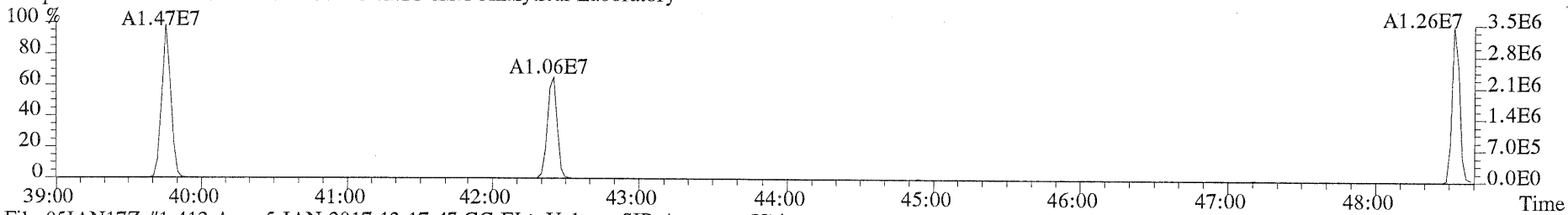
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



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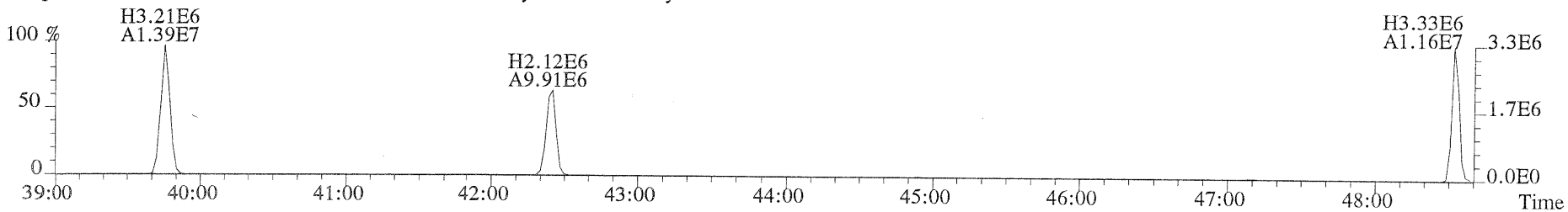
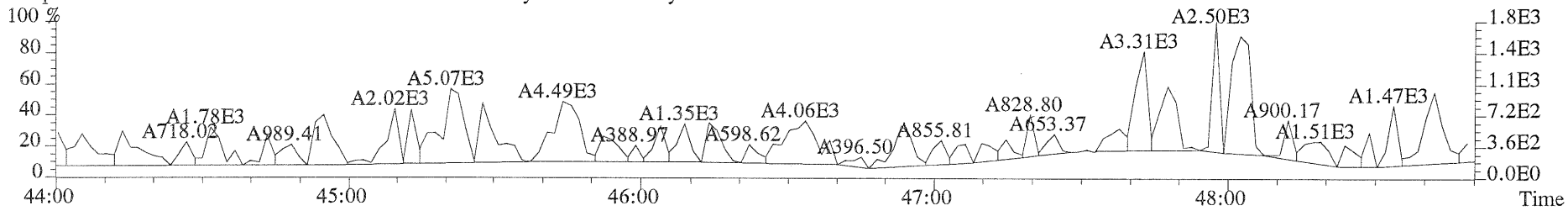
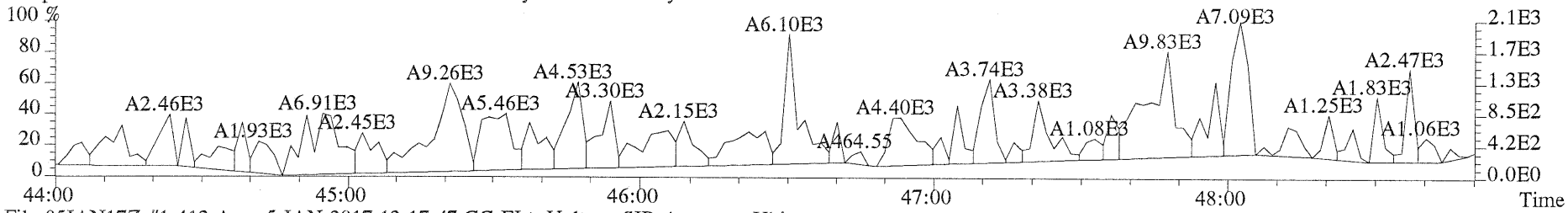
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



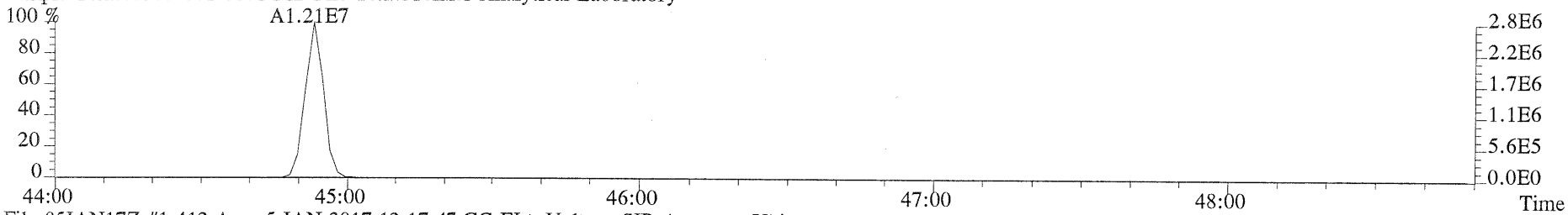
File:05JAN17Z #1-412 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-412 Acq: 5-JAN-2017 12:17:47 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:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-412 Acq: 5-JAN-2017 12:17:47 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:03953-001-0001-MB File Text:Frontier Analytical Laboratory



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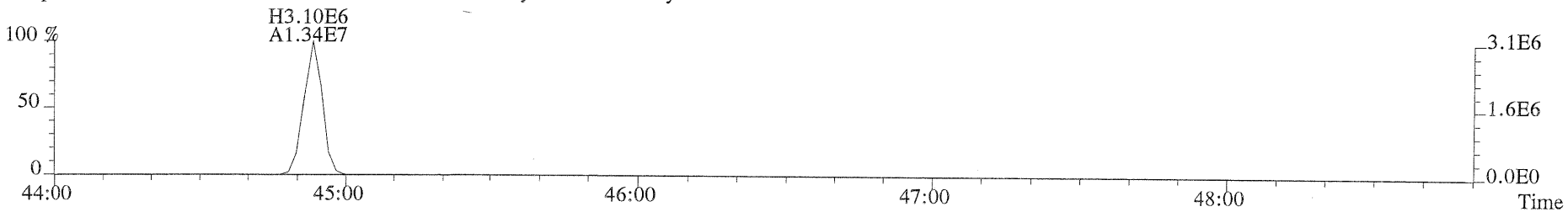
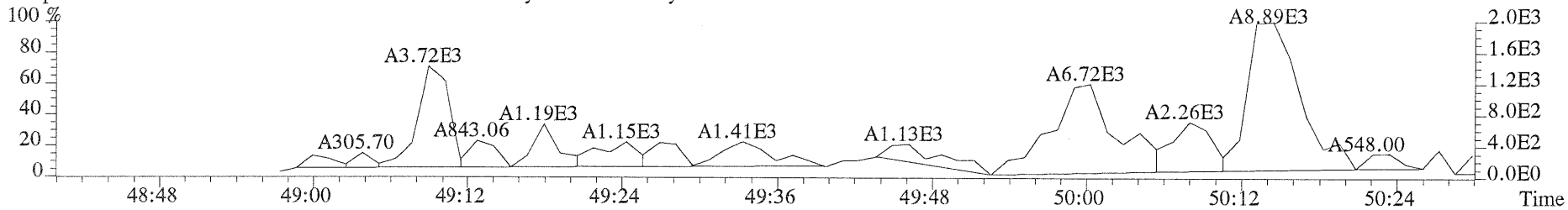
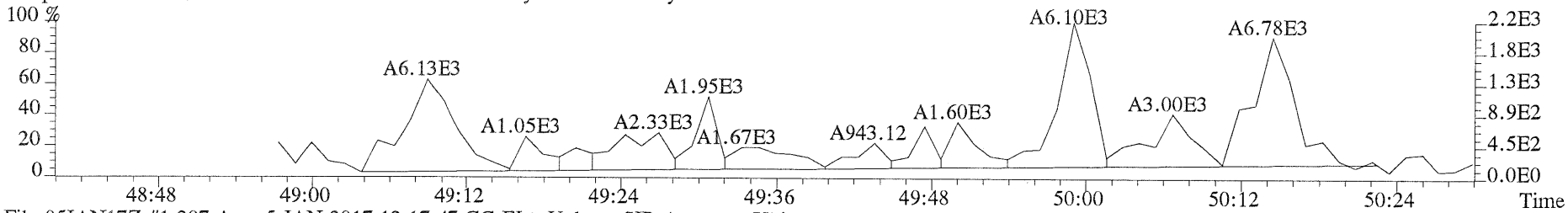
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-307 Acq: 5-JAN-2017 12:17:47 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:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-307 Acq: 5-JAN-2017 12:17:47 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:03953-001-0001-MB File Text:Frontier Analytical Laboratory



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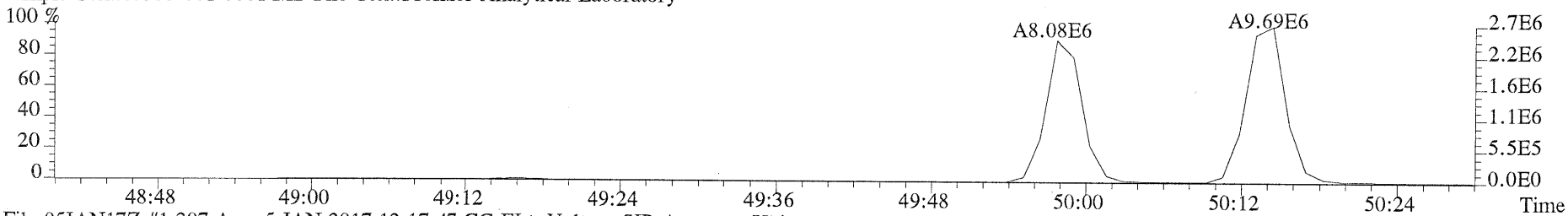
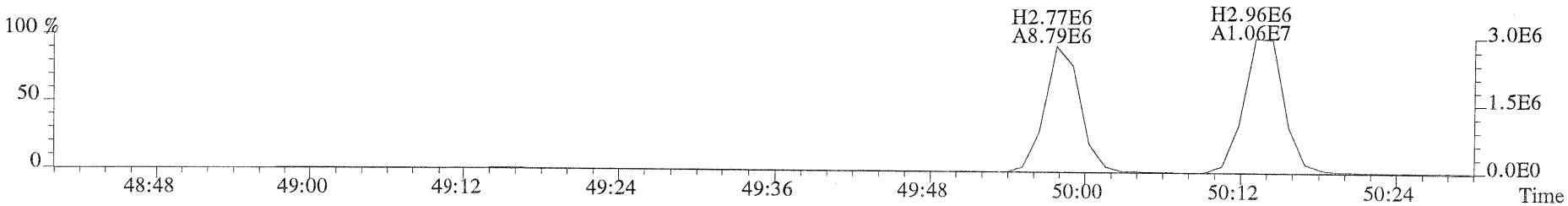
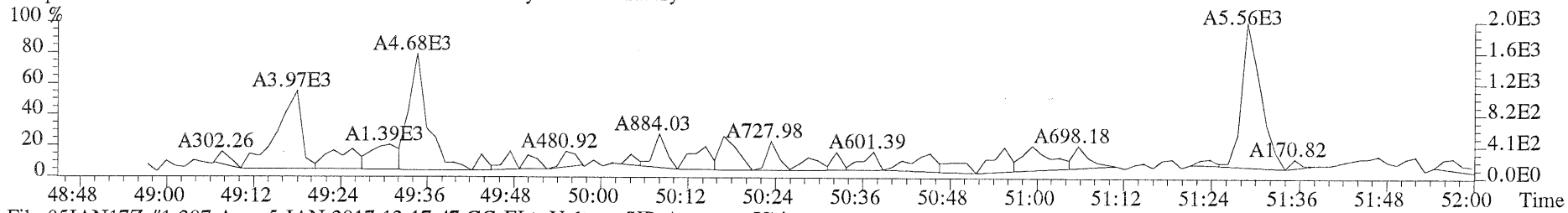
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



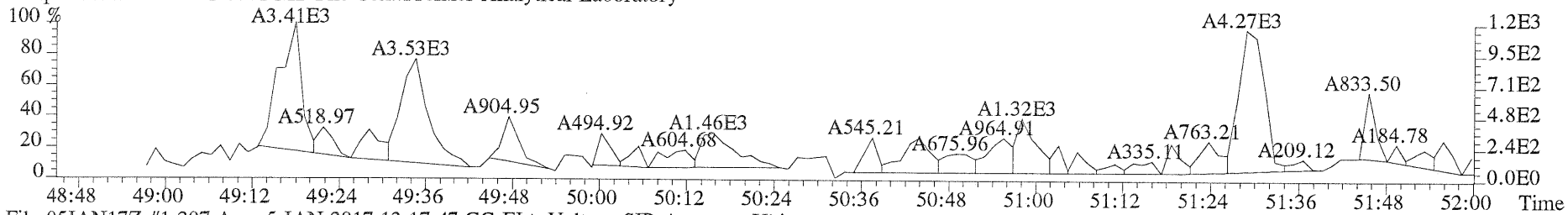
File:05JAN17Z #1-307 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



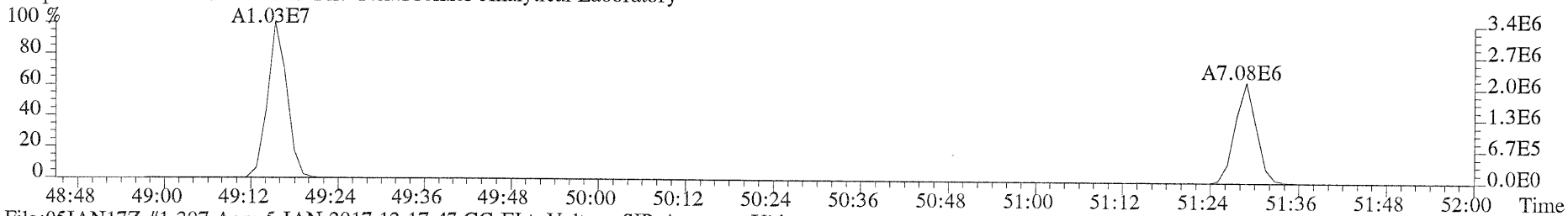
File:05JAN17Z #1-307 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



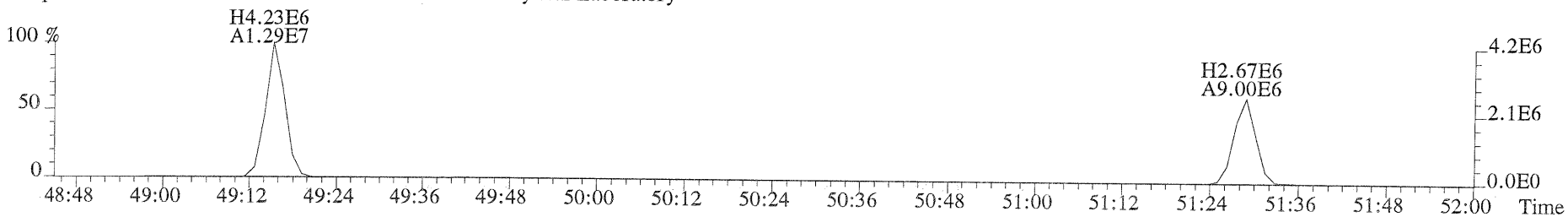
File:05JAN17Z #1-307 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



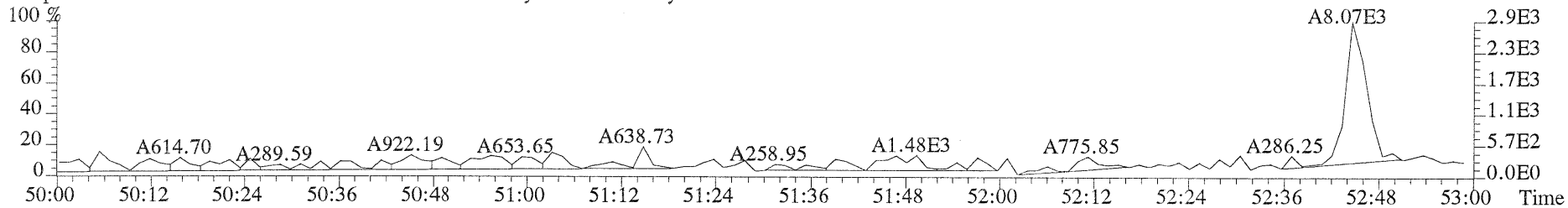
File:05JAN17Z #1-307 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



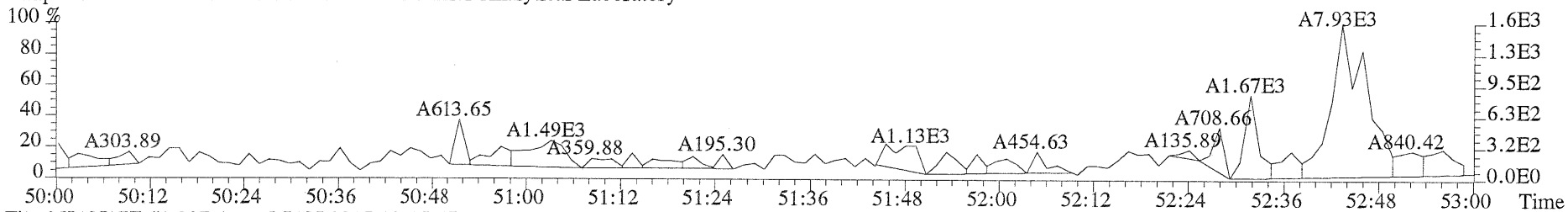
File:05JAN17Z #1-307 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



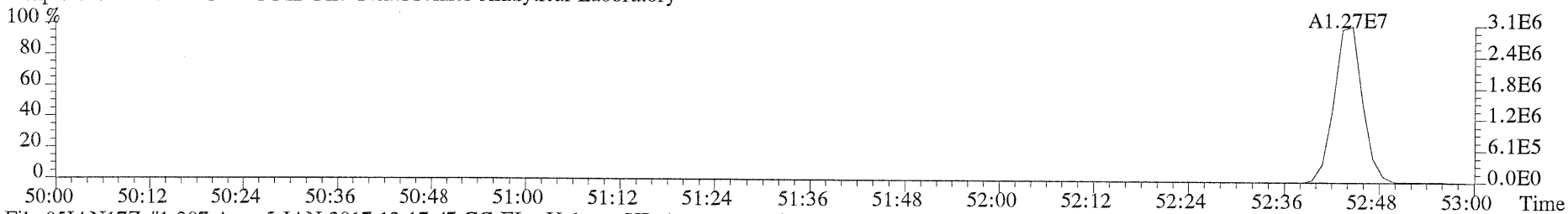
File:05JAN17Z #1-307 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



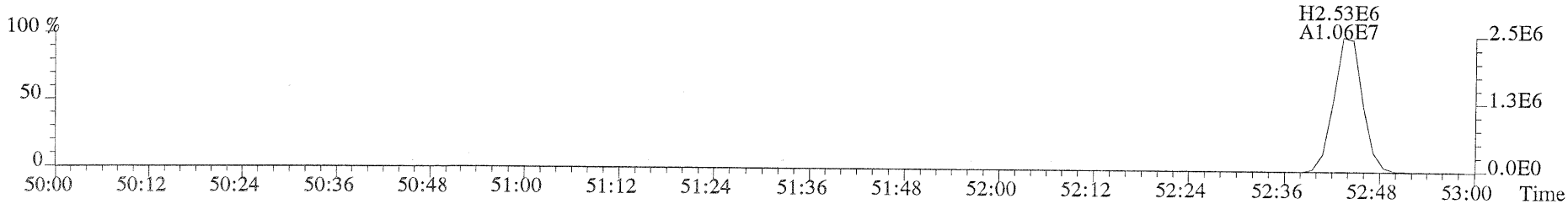
File:05JAN17Z #1-307 Acq: 5-JAN-2017 12:17:47 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-307 Acq: 5-JAN-2017 12:17:47 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:03953-001-0001-MB File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-307 Acq: 5-JAN-2017 12:17:47 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:03953-001-0001-MB File Text:Frontier Analytical Laboratory



3953-001-0001-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): Sediment OPR Data Filename: 05JAN17Z Sam:4

Ext. Date: 12/14/16 Shift: Day Analysis Date: 5-JAN-17 13:16:07

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	53.4	30.0 - 67.5
PCB-3	50	53.4	30.0 - 67.5
PCB-4	50	47.4	30.0 - 67.5
PCB-15	50	52.2	30.0 - 67.5
PCB-19	50	53.8	30.0 - 67.5
PCB-37	50	49.4	30.0 - 67.5
PCB-54	50	50.7	30.0 - 67.5
PCB-77	50	52.7	30.0 - 67.5
PCB-81	50	50.3	30.0 - 67.5
PCB-104	50	52.6	30.0 - 67.5
PCB-105	50	49.6	30.0 - 67.5
PCB-114	50	52.9	30.0 - 67.5
PCB-118	50	56.1	30.0 - 67.5
PCB-123	50	44.5	30.0 - 67.5
PCB-126	50	49.3	30.0 - 67.5
PCB-155	50	52.6	30.0 - 67.5
PCB-156	50	50.9	30.0 - 67.5
PCB-157	50	49.4	30.0 - 67.5
PCB-167	50	53.6	30.0 - 67.5
PCB-169	50	53.0	30.0 - 67.5
PCB-188	50	50.9	30.0 - 67.5
PCB-189	50	52.5	30.0 - 67.5
PCB-202	50	54.8	30.0 - 67.5
PCB-205	50	51.7	30.0 - 67.5
PCB-206	50	51.0	30.0 - 67.5
PCB-208	50	50.3	30.0 - 67.5
PCB-209	50	51.5	30.0 - 67.5

Analyst: [signature] Date: 1/6/17

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): Sediment OPR Data Filename: 05JAN17Z Sam:4

Ext. Date: 12/14/16 Shift: Day Analysis Date: 5-JAN-17 13:16:07

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	94.9	15.0 - 145
13C-PCB-3	100	91.8	15.0 - 145
13C-PCB-4	100	94.0	15.0 - 145
13C-PCB-15	100	92.3	15.0 - 145
13C-PCB-19	100	92.1	15.0 - 145
13C-PCB-37	100	99.9	15.0 - 145
13C-PCB-54	100	105	15.0 - 145
13C-PCB-77	100	94.5	40.0 - 145
13C-PCB-81	100	93.4	40.0 - 145
13C-PCB-104	100	99.0	40.0 - 145
13C-PCB-105	100	96.4	40.0 - 145
13C-PCB-114	100	97.9	40.0 - 145
13C-PCB-118	100	94.7	40.0 - 145
13C-PCB-123	100	95.8	40.0 - 145
13C-PCB-126	100	95.9	40.0 - 145
13C-PCB-155	100	98.3	40.0 - 145
13C-PCB-156	100	97.5	40.0 - 145
13C-PCB-157	100	94.0	40.0 - 145
13C-PCB-167	100	97.0	40.0 - 145
13C-PCB-169	100	91.7	40.0 - 145
13C-PCB-188	100	98.4	40.0 - 145
13C-PCB-189	100	93.2	40.0 - 145
13C-PCB-202	100	99.9	40.0 - 145
13C-PCB-205	100	96.3	40.0 - 145
13C-PCB-206	100	96.3	40.0 - 145
13C-PCB-208	100	99.6	40.0 - 145
13C-PCB-209	100	97.9	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	98.3	15.0 - 145
13C-PCB-111	100	91.8	40.0 - 145
13C-PCB-178	100	89.1	40.0 - 145

Analyst: _____ Date: 1/6/17

FAL ID: 03953-001-0001-OPR Filename: 05JAN17Z Sam:4 Acquired: 5-JAN-17 13:16:07 ICal: DAILY209FAL4-1-5-17
Client ID: OPR ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9396-10 GC Column: DB1 Amount: 1.000

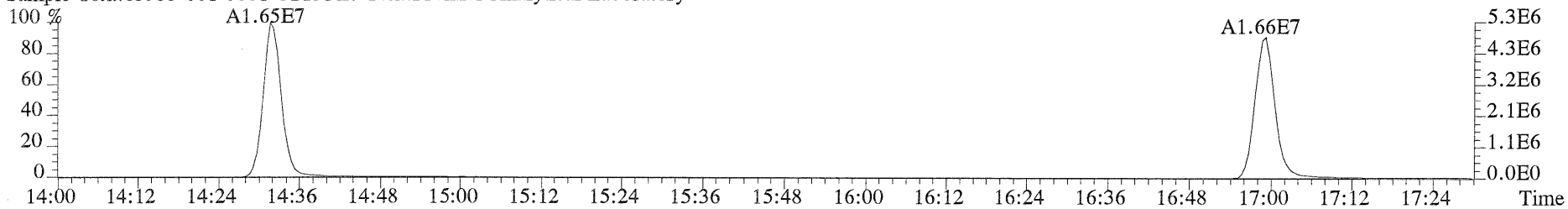
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	2.18e+07	3.11 y	14:32	0.92	53.4		2.50	-	-	*	
13C-PCB-1	4.45e+07	3.10 y	14:31	1.09	94.9		2.50				94.9
PCB-3	2.20e+07	3.12 y	16:59	0.92	53.4		2.50	-	-	*	
13C-PCB-3	4.48e+07	3.15 y	16:58	1.14	91.8		2.50				91.8
PCB-4	1.39e+07	1.44 y	18:13	1.17	47.4		2.50	-	-	*	
13C-PCB-4	2.51e+07	1.56 y	18:12	0.62	94.0		2.50				94.0
PCB-15	2.13e+07	1.45 y	23:46	1.00	52.2		2.50	-	-	*	
13C-PCB-15	4.08e+07	1.59 y	23:45	1.03	92.3		2.50				92.3
PCB-19	1.32e+07	1.04 y	22:07	0.95	53.8		2.50	-	-	*	
13C-PCB-19	2.57e+07	1.07 y	22:06	0.65	92.1		2.50				92.1
13C-PCB-9	4.29e+07	1.61 y	19:53	-	46.9		2.50				
PCB-37	1.73e+07	1.03 y	30:26	1.06	49.4		2.50	-	-	*	
13C-PCB-37	3.31e+07	1.10 y	30:25	1.18	99.9		2.50				99.9
PCB-54	1.56e+07	0.78 y	25:39	0.99	50.7		2.50	-	-	*	
13C-PCB-54	3.10e+07	0.79 y	25:38	1.05	105		2.50				105
PCB-104	1.40e+07	1.60 y	30:06	1.04	52.6		2.50	-	-	*	
13C-PCB-104	2.56e+07	1.61 y	30:04	0.92	99.0		2.50				99.0
13C-PCB-28	3.59e+07	1.09 y	26:43	1.30	98.3		2.50				98.3
13C-PCB-52	2.82e+07	0.80 y	28:60	-	43.1		2.50				
PCB-81	1.40e+07	0.78 y	36:12	1.06	50.3		2.50	-	-	*	
13C-PCB-81	2.63e+07	0.78 y	36:12	1.07	93.4		2.50				93.4
PCB-77	1.39e+07	0.78 y	36:46	0.98	52.7		2.50	-	-	*	
13C-PCB-77	2.70e+07	0.80 y	36:45	1.08	94.5		2.50				94.5
PCB-155	1.48e+07	1.28 y	34:17	0.98	52.6		2.50	-	-	*	
13C-PCB-155	2.88e+07	1.25 y	34:16	1.11	98.3		2.50				98.3
13C-PCB-111	2.76e+07	1.59 y	36:21	1.14	91.8		2.50				91.8
13C-PCB-101	2.63e+07	1.57 y	34:41	-	43.1		2.50				
PCB-123	1.16e+07	1.52 y	38:24	1.10	44.5		2.50	-	-	*	
13C-PCB-123	2.36e+07	1.58 y	38:23	1.05	95.8		2.50				95.8
PCB-118	1.26e+07	1.50 y	38:36	0.92	56.1		2.50	-	-	*	
13C-PCB-118	2.44e+07	1.63 y	38:34	1.10	94.7		2.50				94.7
PCB-114	1.21e+07	1.53 y	39:12	0.95	52.9		2.50	-	-	*	
13C-PCB-114	2.41e+07	1.61 y	39:10	1.05	97.9		2.50				97.9
PCB-105	1.18e+07	1.52 y	40:01	0.99	49.6		2.50	-	-	*	
13C-PCB-105	2.40e+07	1.59 y	39:60	1.06	96.4		2.50				96.4
PCB-126	1.12e+07	1.54 y	42:10	1.00	49.3		2.50	-	-	*	
13C-PCB-126	2.25e+07	1.61 y	42:08	1.00	95.9		2.50				95.9
PCB-167	1.24e+07	1.25 y	43:32	0.88	53.6		2.50	-	-	*	
13C-PCB-167	2.63e+07	1.26 y	43:30	1.16	97.0		2.50				97.0
PCB-156	1.19e+07	1.26 y	44:44	0.92	50.9		2.50	-	-	*	
13C-PCB-156	2.53e+07	1.25 y	44:44	1.11	97.5		2.50				97.5
PCB-157	1.17e+07	1.27 y	45:01	0.94	49.4		2.50	-	-	*	
13C-PCB-157	2.51e+07	1.24 y	44:59	1.14	94.0		2.50				94.0
PCB-169	1.11e+07	1.23 y	46:53	0.89	53.0		2.50	-	-	*	
13C-PCB-169	2.36e+07	1.26 y	46:53	1.10	91.7		2.50				91.7
PCB-188	1.48e+07	1.04 y	39:47	1.04	50.9		2.50	-	-	*	
13C-PCB-188	2.81e+07	1.08 y	39:45	1.22	98.4		2.50				98.4
PCB-189	1.25e+07	1.05 y	48:35	0.99	52.5		2.50	-	-	*	
13C-PCB-189	2.40e+07	1.09 y	48:33	1.10	93.2		2.50				93.2
PCB-202	1.20e+07	0.90 y	44:54	0.86	54.8		2.50	-	-	*	
13C-PCB-202	2.55e+07	0.91 y	44:53	1.09	99.9		2.50				99.9
13C-PCB-178	1.85e+07	1.07 y	42:25	0.89	89.1		2.50				89.1
13C-PCB-138	2.34e+07	1.27 y	41:37	-	43.2		2.50				

FAL ID: 03953-001-0001-OPR Filename: 05JAN17Z Sam:4 Acquired: 5-JAN-17 13:16:07 ICal: DAILY209FAL4-1-5-17 2 of 2
Client ID: OPR ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9396-10 GC Column: DB1 Amount: 1.000

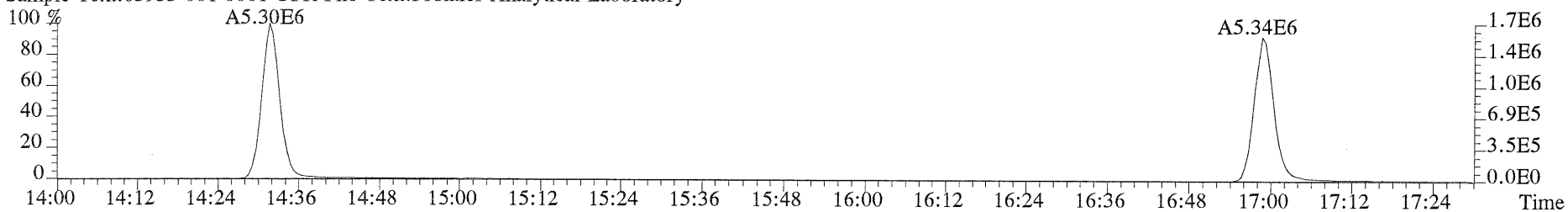
PCB-205	1.04e+07	0.90 y	50:16	0.98	51.7	2.50	-	-	*	
13C-PCB-205	2.05e+07	0.90 y	50:14	1.24	96.3	2.50				96.3
PCB-208	1.04e+07	1.35 y	49:17	0.90	50.3	2.50	-	-	*	
13C-PCB-208	2.28e+07	0.80 y	49:15	1.34	99.6	2.50				99.6
PCB-206	7.46e+06	1.34 y	51:30	0.92	51.0	2.50	-	-	*	
13C-PCB-206	1.59e+07	0.79 y	51:29	0.96	96.3	2.50				96.3
PCB-209	1.17e+07	1.16 y	52:46	0.97	51.5	2.50	-	-	*	
13C-PCB-209	2.34e+07	1.21 y	52:45	1.40	97.9	2.50				97.9
13C-PCB-194	1.71e+07	0.91 y	49:58	-	42.7	2.50				

Analyst: _____ Date: 1/6/17

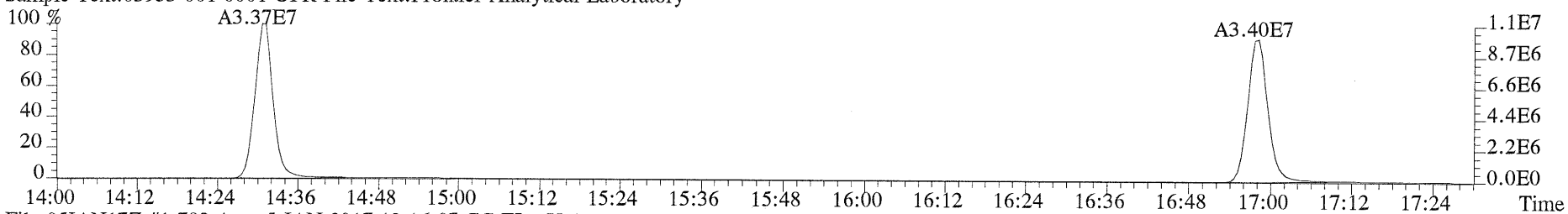
File:05JAN17Z #1-783 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



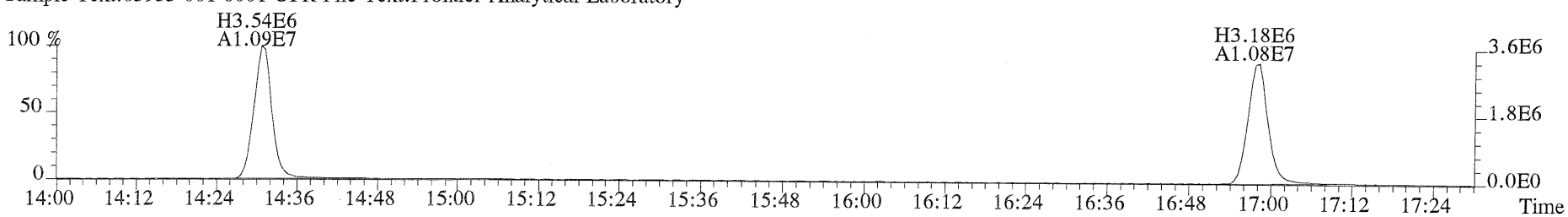
File:05JAN17Z #1-783 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



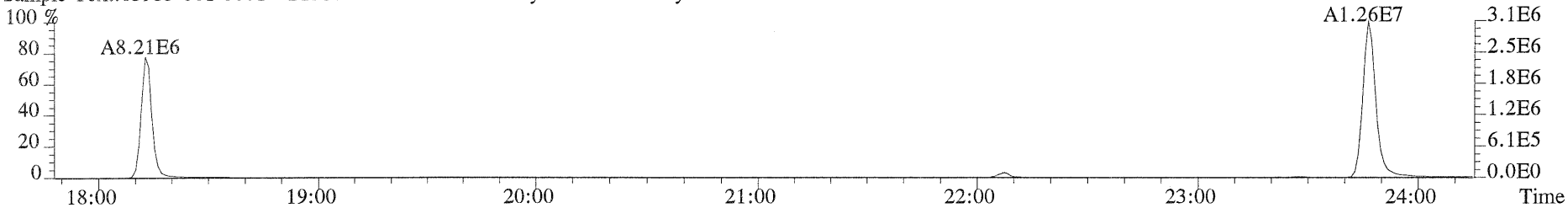
File:05JAN17Z #1-783 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



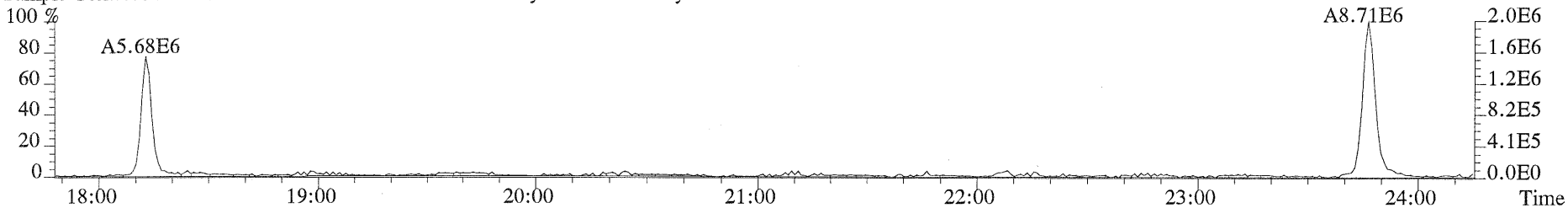
File:05JAN17Z #1-783 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



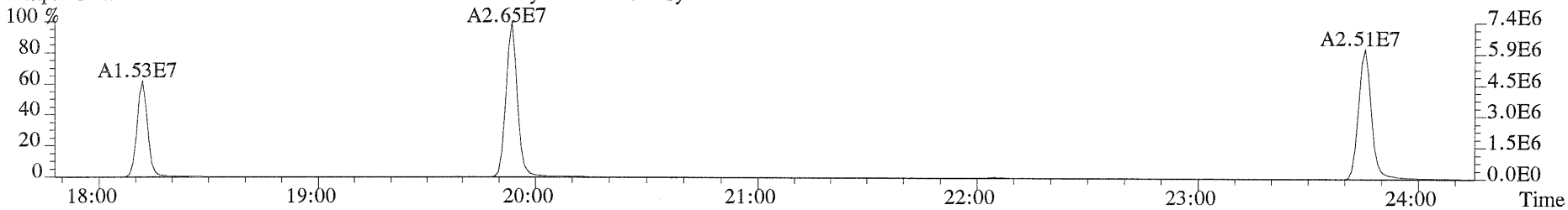
File:05JAN17Z #1-509 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



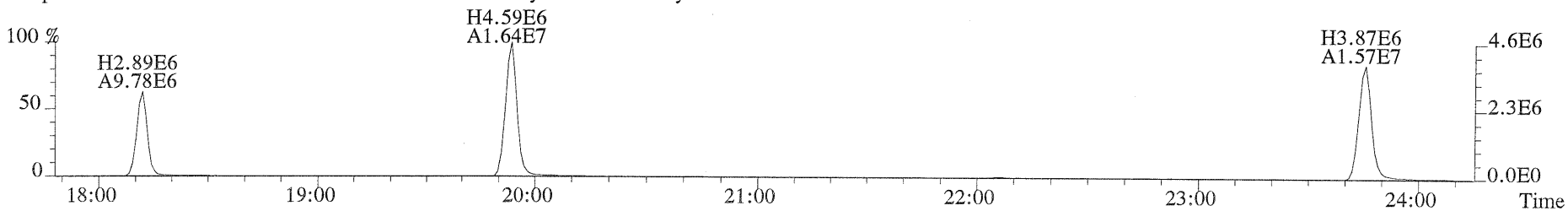
File:05JAN17Z #1-509 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



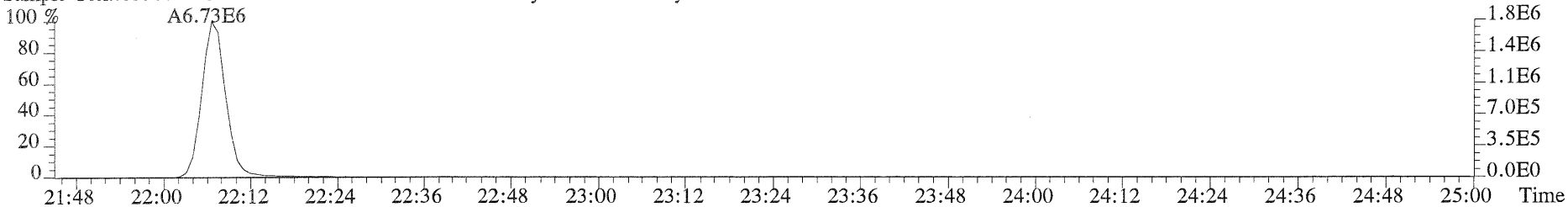
File:05JAN17Z #1-509 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



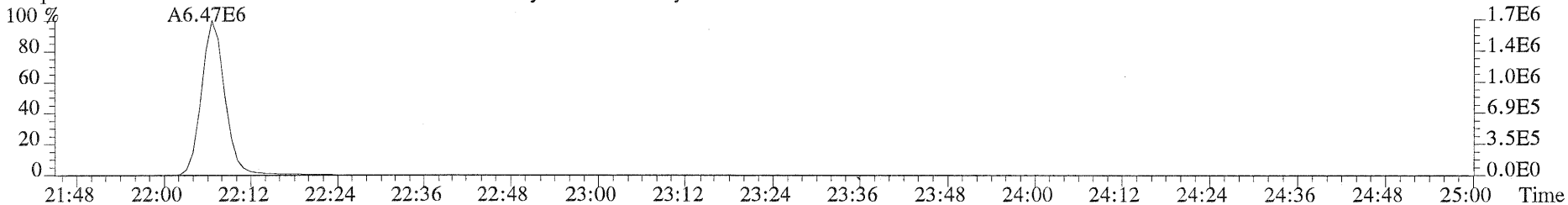
File:05JAN17Z #1-509 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



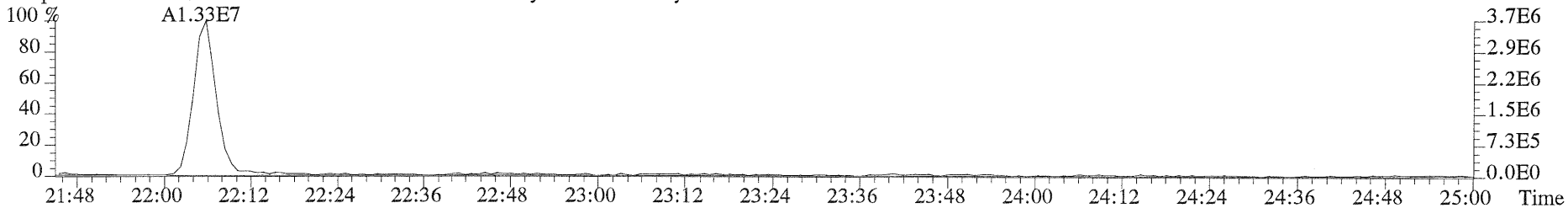
File:05JAN17Z #1-509 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



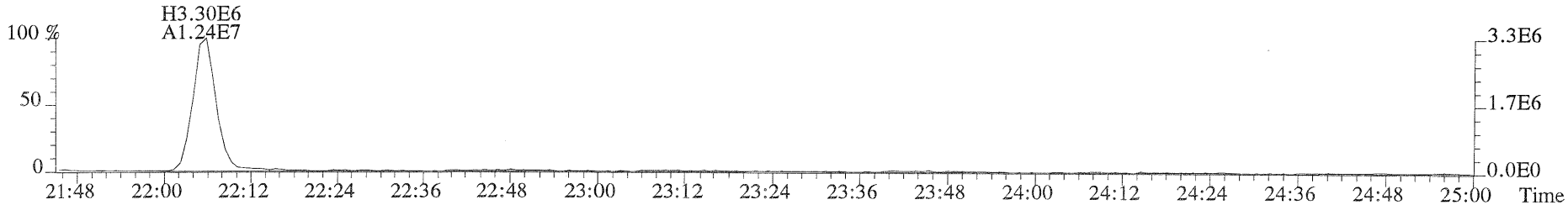
File:05JAN17Z #1-509 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



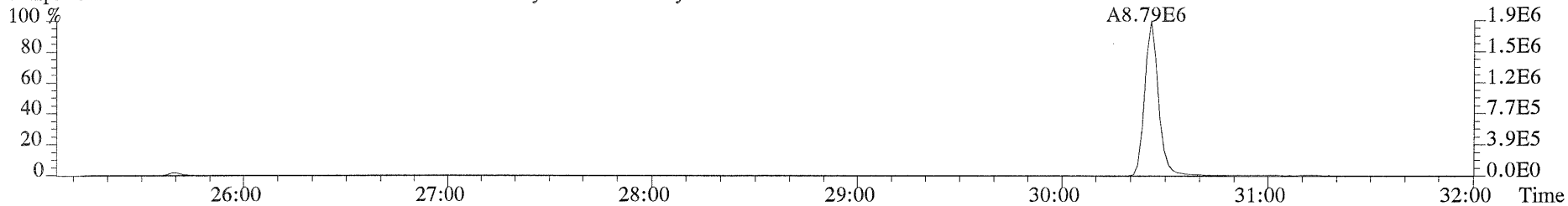
File:05JAN17Z #1-509 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



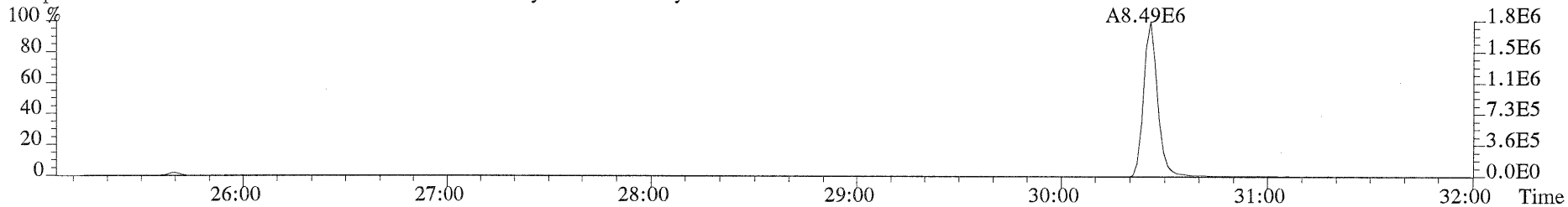
File:05JAN17Z #1-509 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



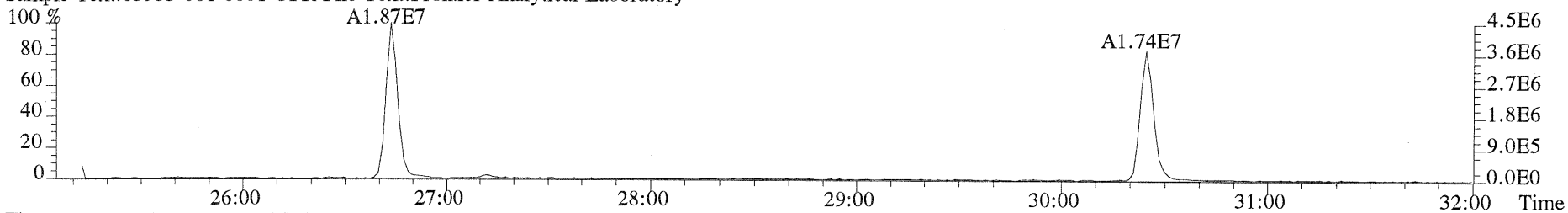
File:05JAN17Z #1-407 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



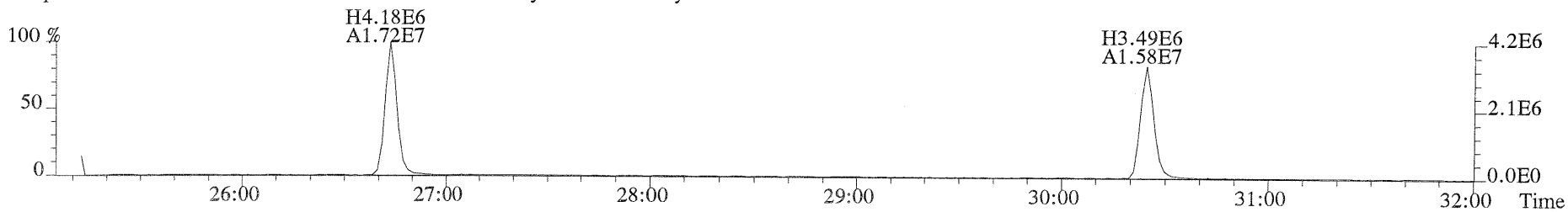
File:05JAN17Z #1-407 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



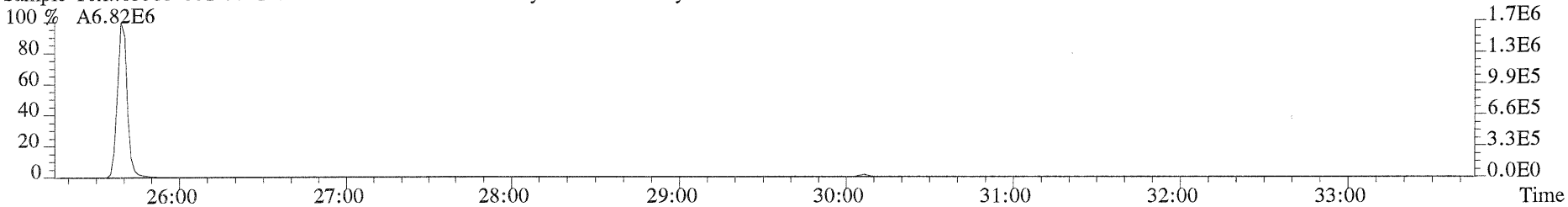
File:05JAN17Z #1-407 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



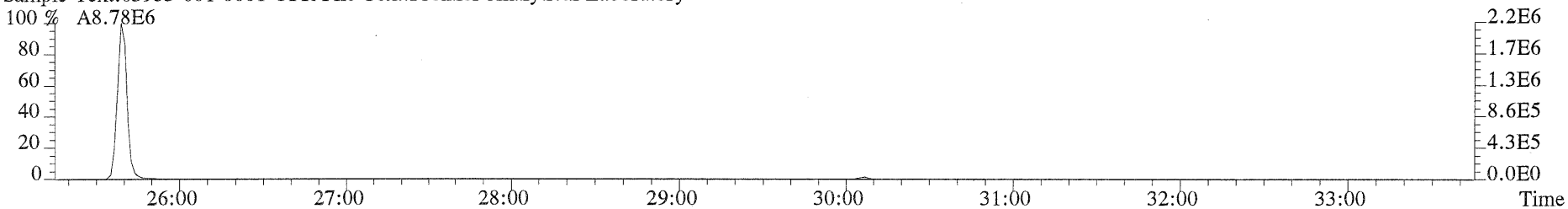
File:05JAN17Z #1-407 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



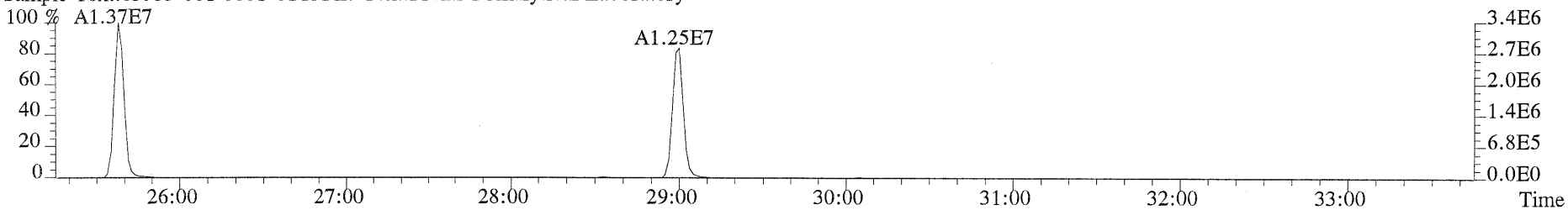
File:05JAN17Z #1-407 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



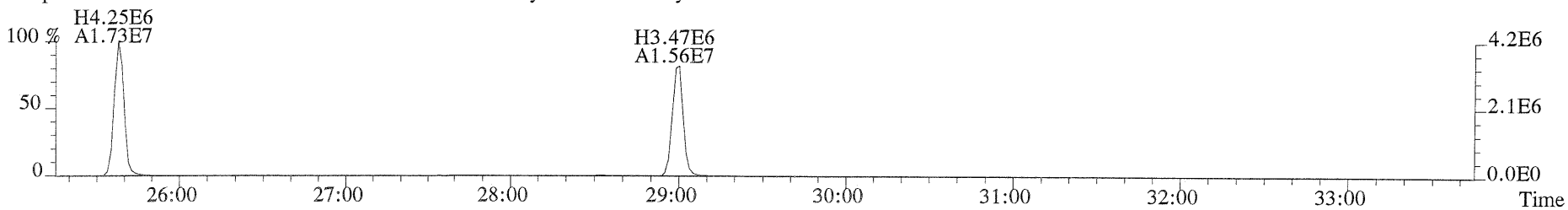
File:05JAN17Z #1-407 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



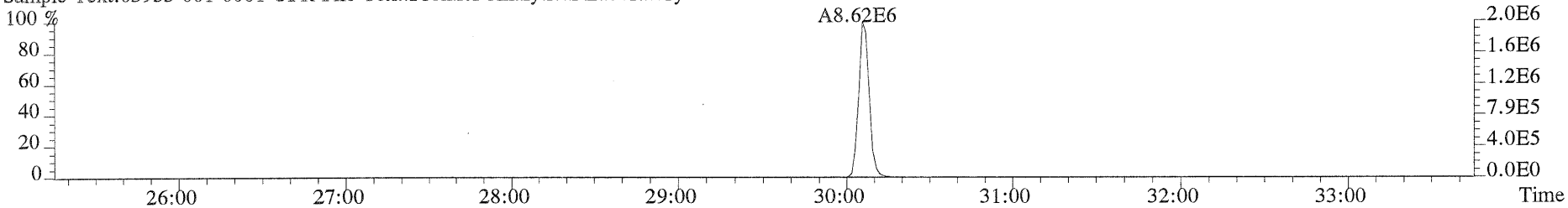
File:05JAN17Z #1-407 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



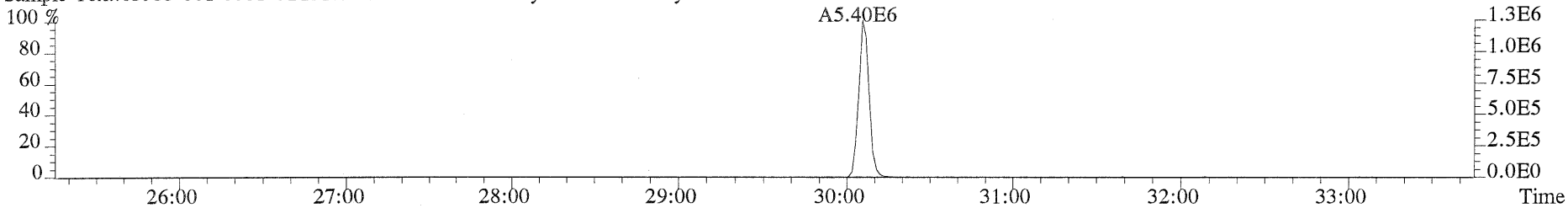
File:05JAN17Z #1-407 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



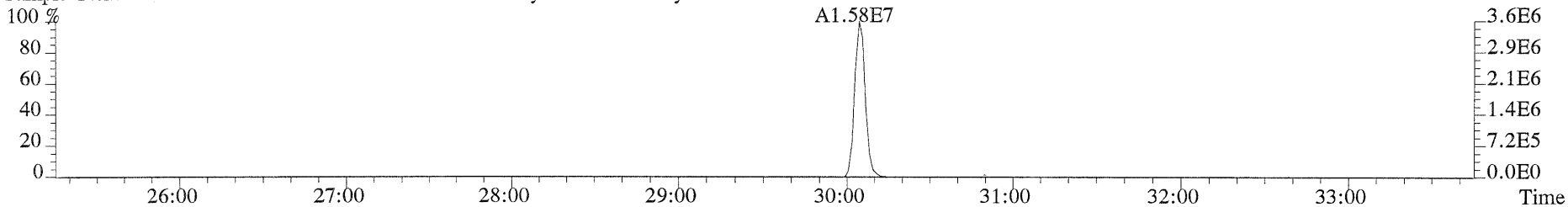
File:05JAN17Z #1-407 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



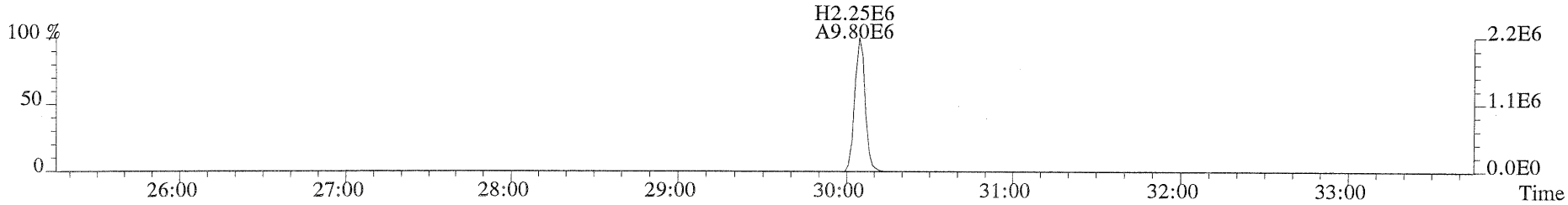
File:05JAN17Z #1-407 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



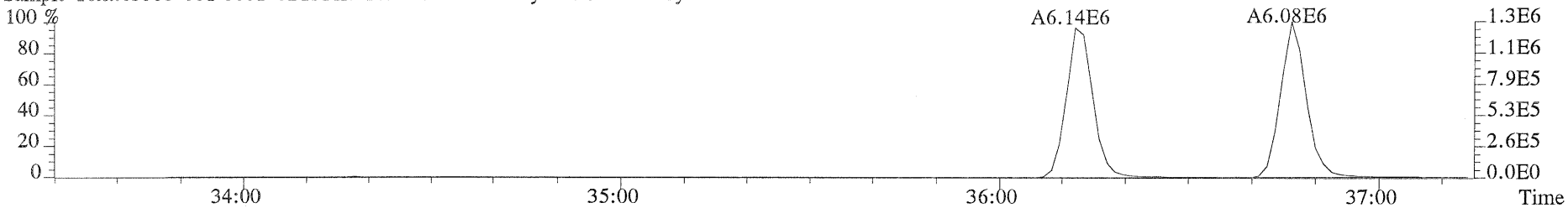
File:05JAN17Z #1-407 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



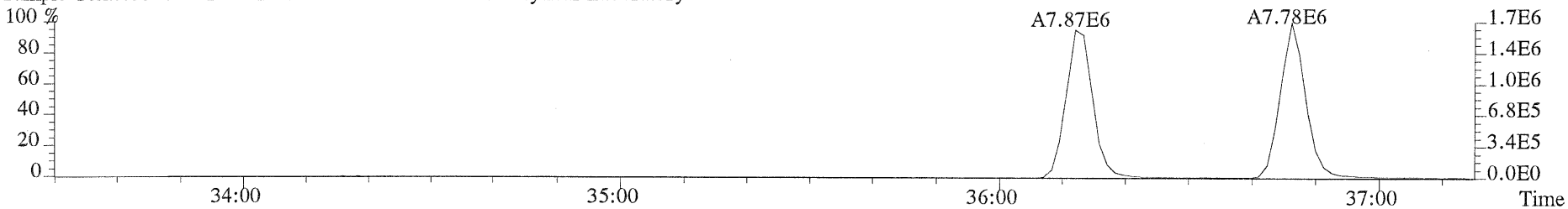
File:05JAN17Z #1-407 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



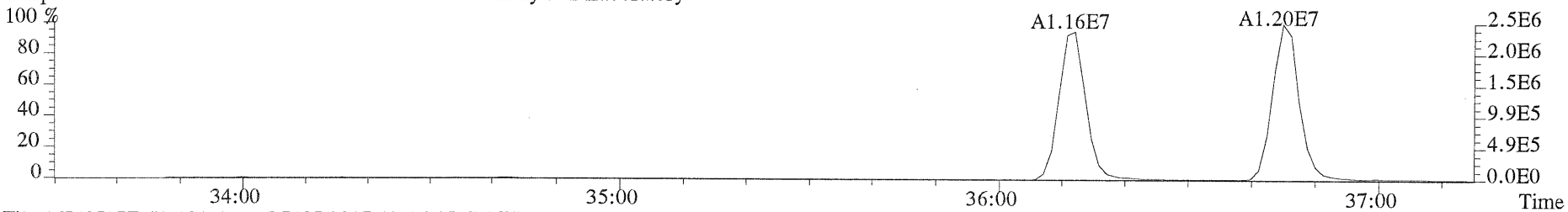
File:05JAN17Z #1-181 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



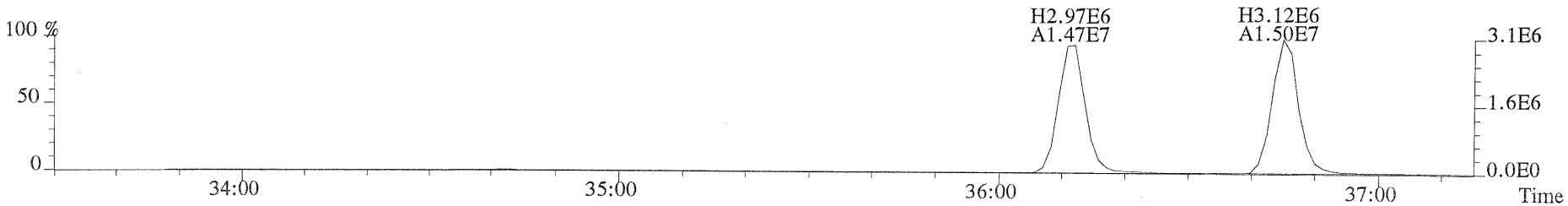
File:05JAN17Z #1-181 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



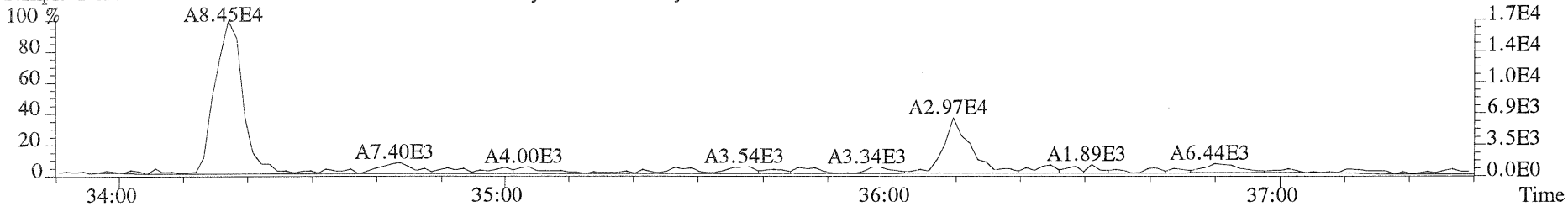
File:05JAN17Z #1-181 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



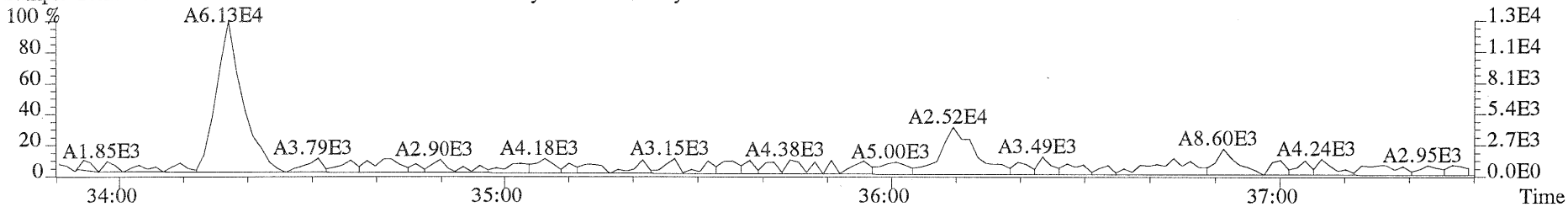
File:05JAN17Z #1-181 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



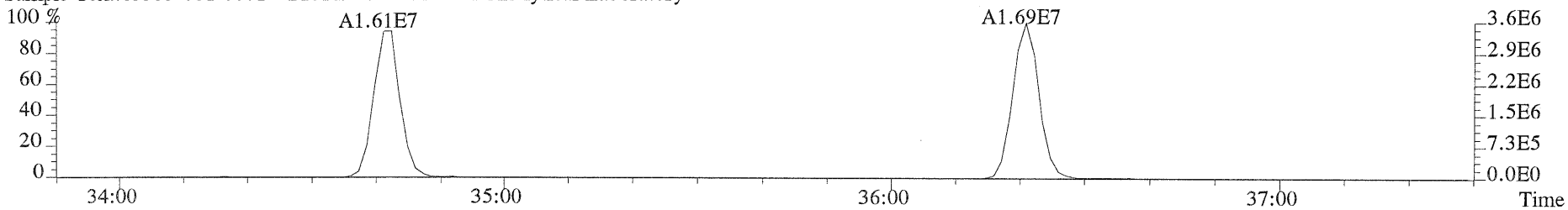
File:05JAN17Z #1-181 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



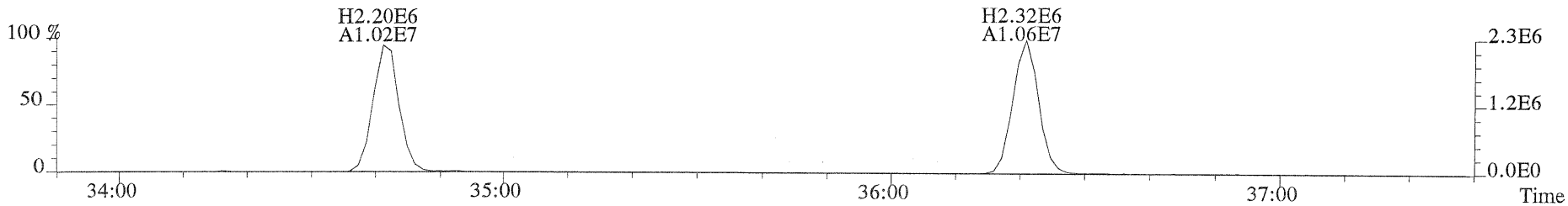
File:05JAN17Z #1-181 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



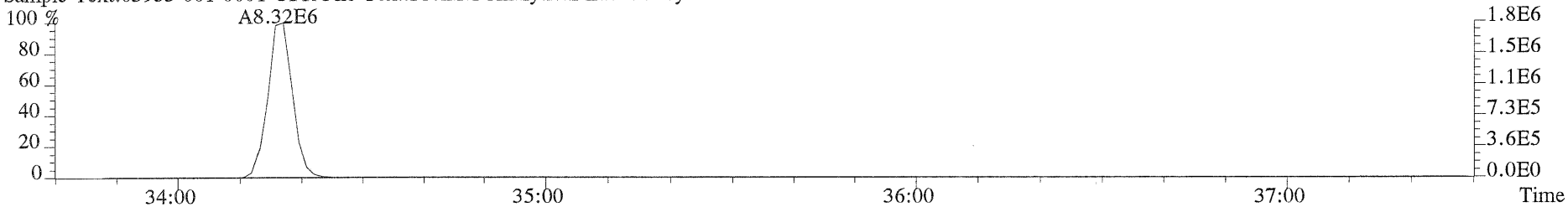
File:05JAN17Z #1-181 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



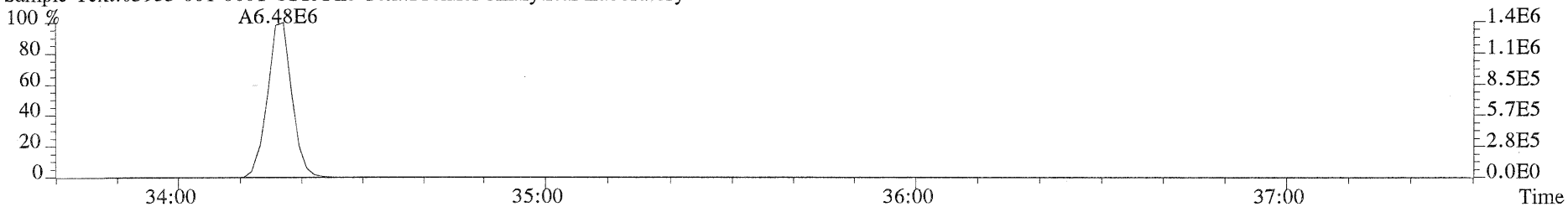
File:05JAN17Z #1-181 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



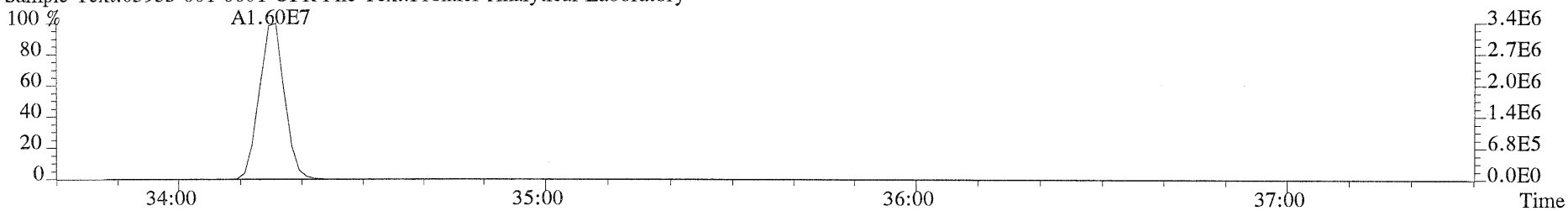
File:05JAN17Z #1-181 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



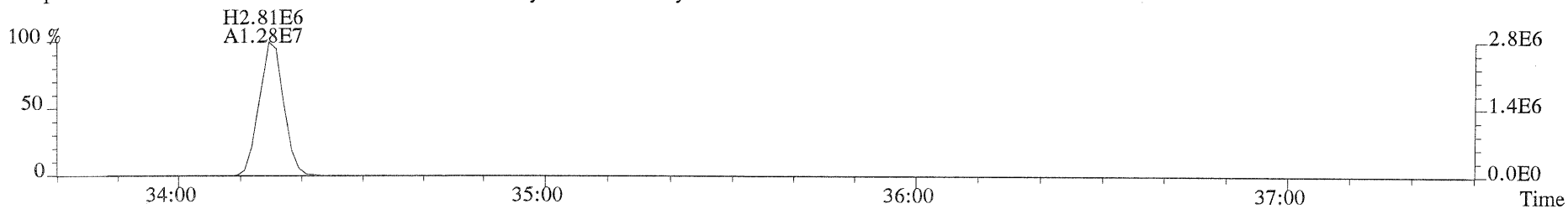
File:05JAN17Z #1-181 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



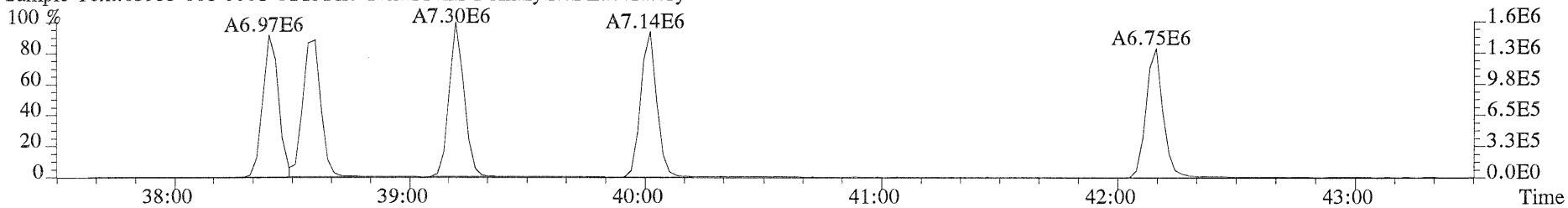
File:05JAN17Z #1-181 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



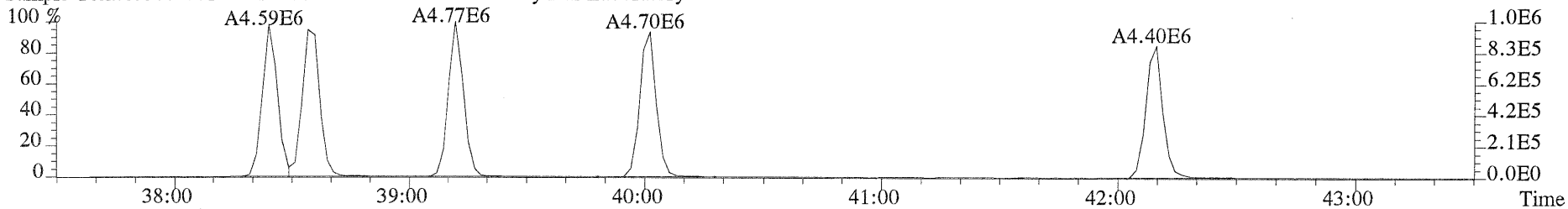
File:05JAN17Z #1-181 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



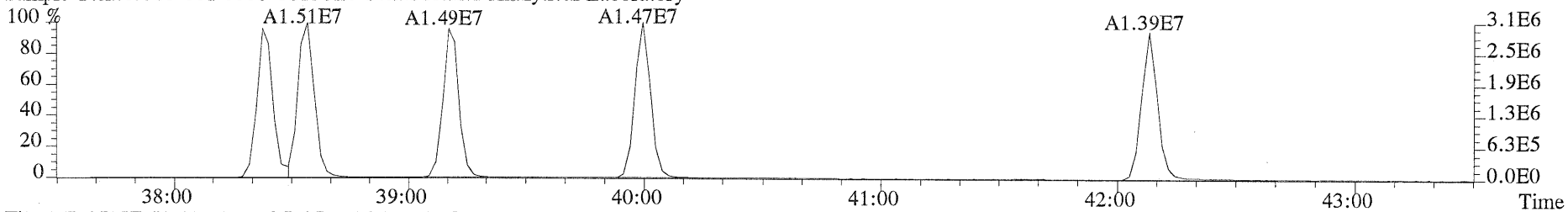
File:05JAN17Z #1-413 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



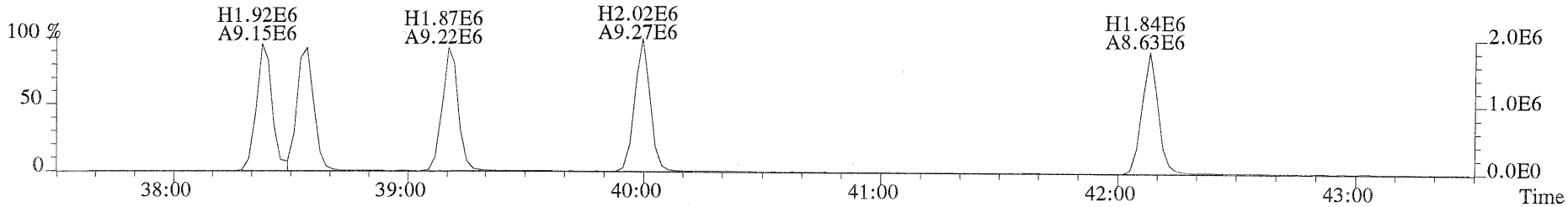
File:05JAN17Z #1-413 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



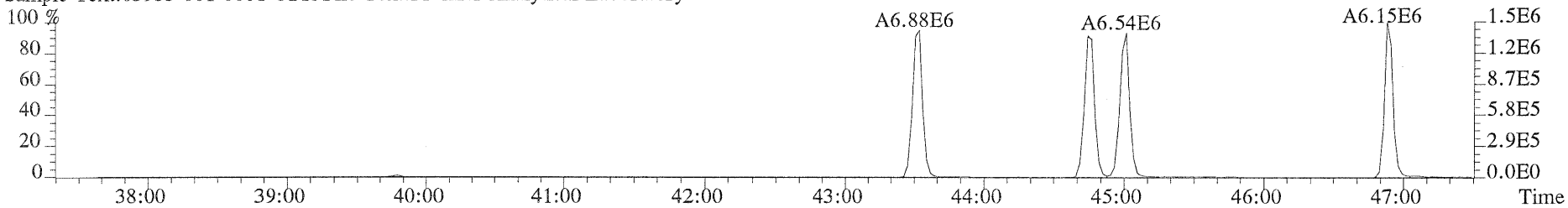
File:05JAN17Z #1-413 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



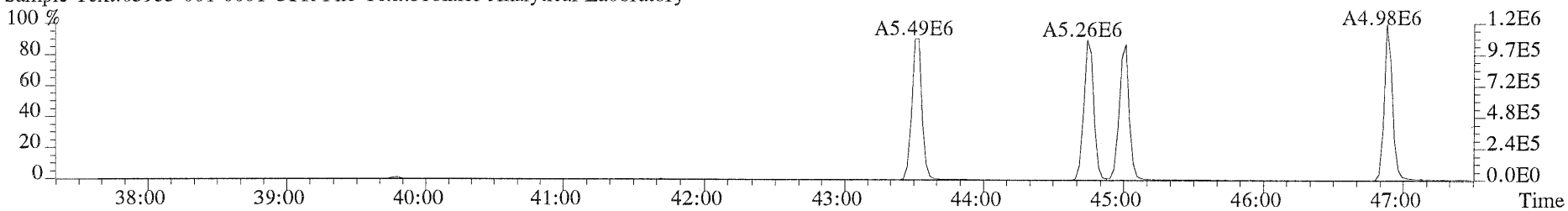
File:05JAN17Z #1-413 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



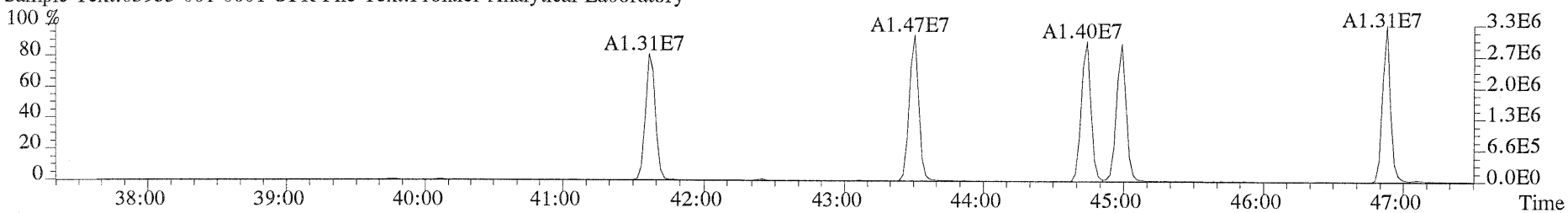
File:05JAN17Z #1-413 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



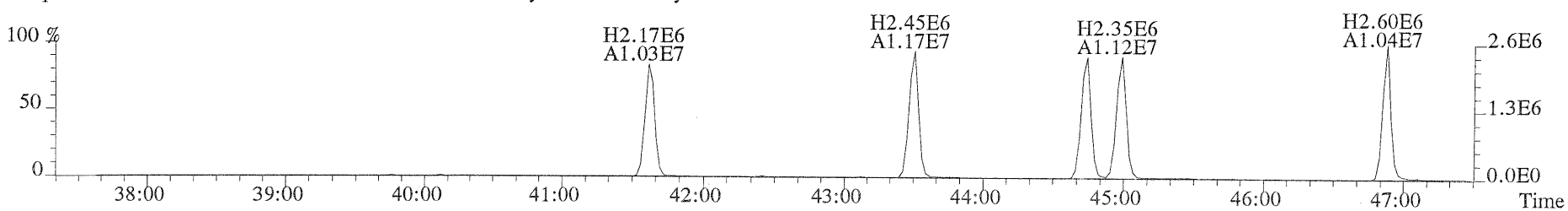
File:05JAN17Z #1-413 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



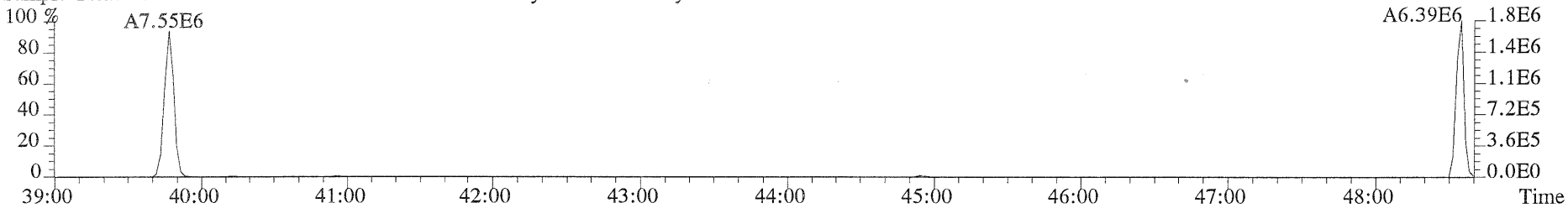
File:05JAN17Z #1-413 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



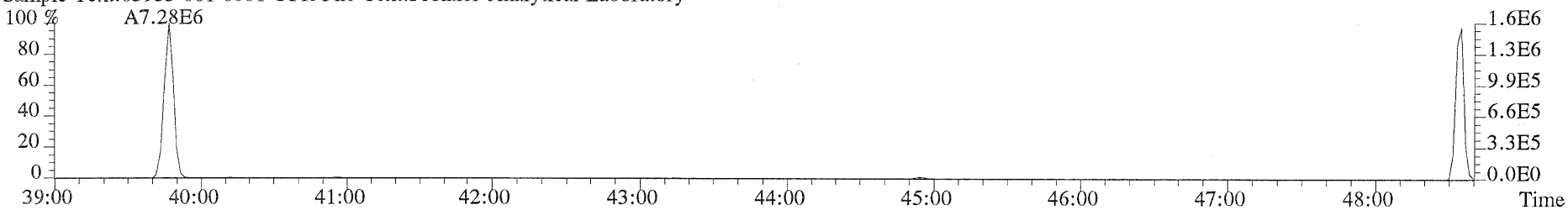
File:05JAN17Z #1-413 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



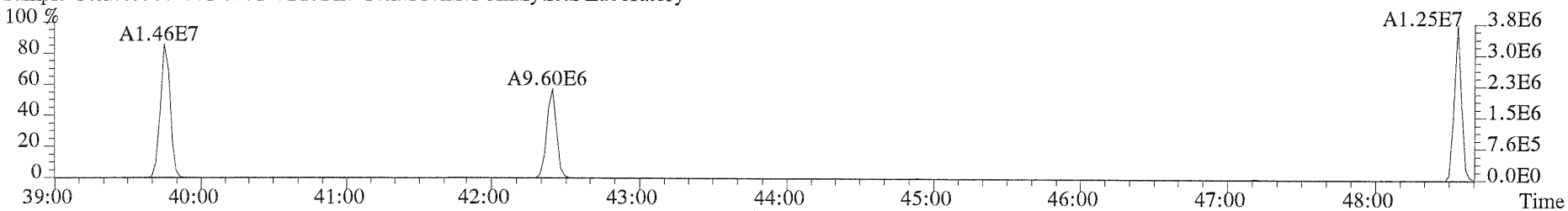
File:05JAN17Z #1-413 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



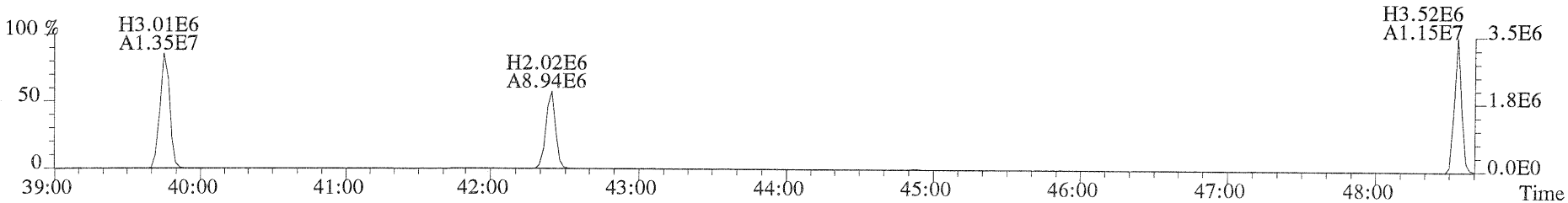
File:05JAN17Z #1-413 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



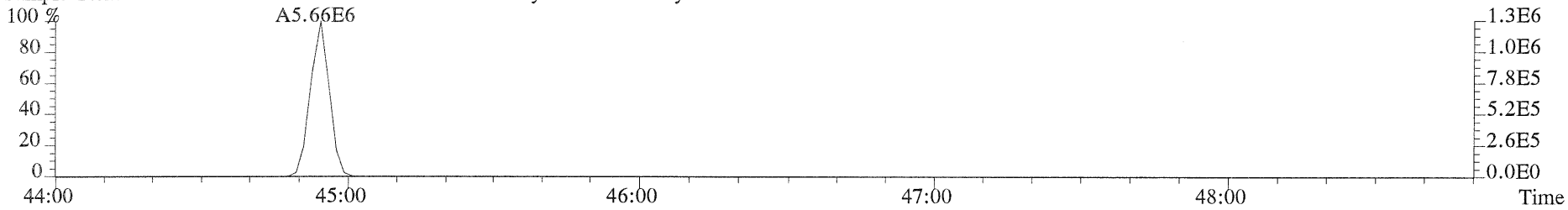
File:05JAN17Z #1-413 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



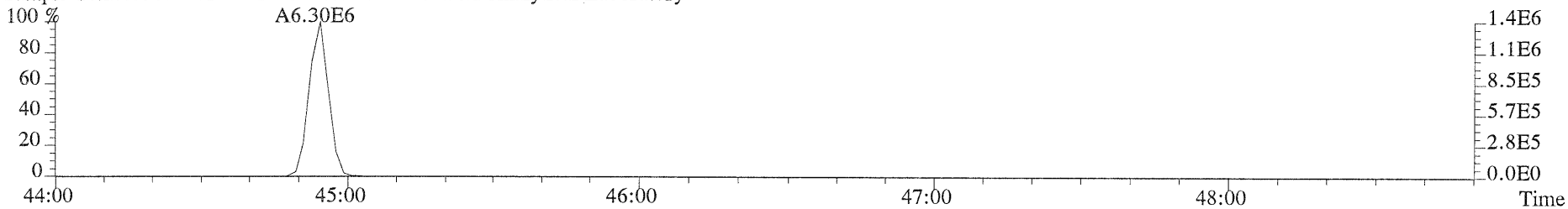
File:05JAN17Z #1-413 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



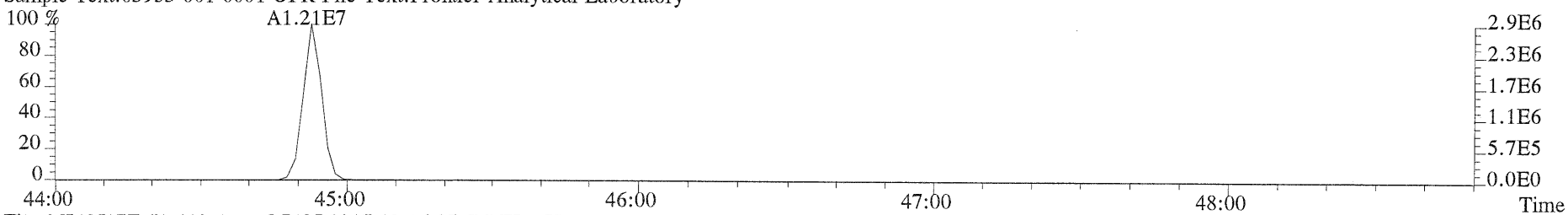
File:05JAN17Z #1-413 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



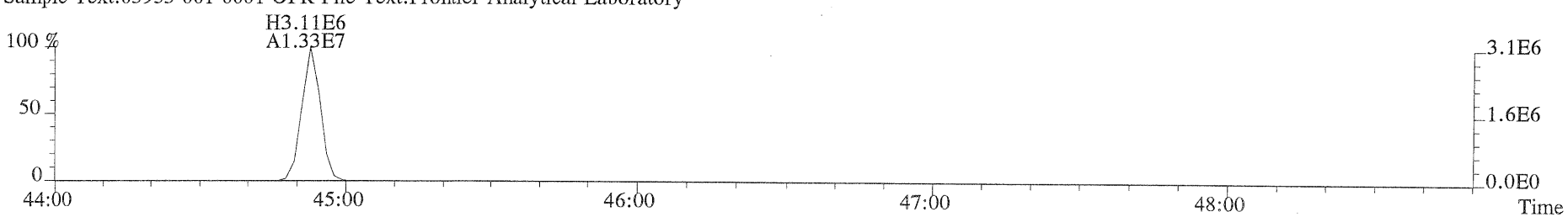
File:05JAN17Z #1-413 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



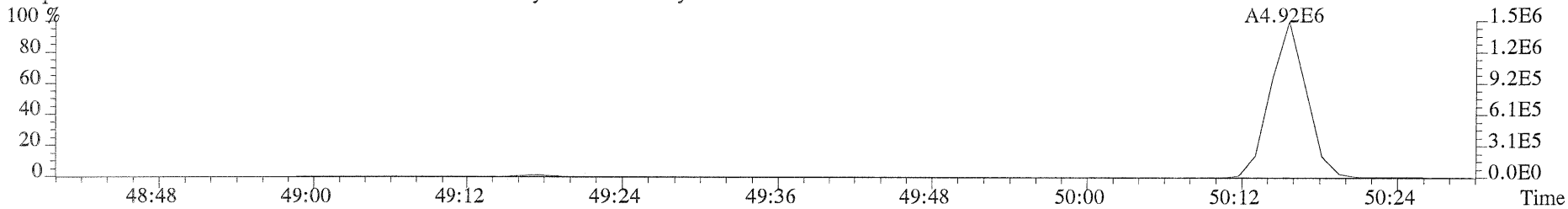
File:05JAN17Z #1-413 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



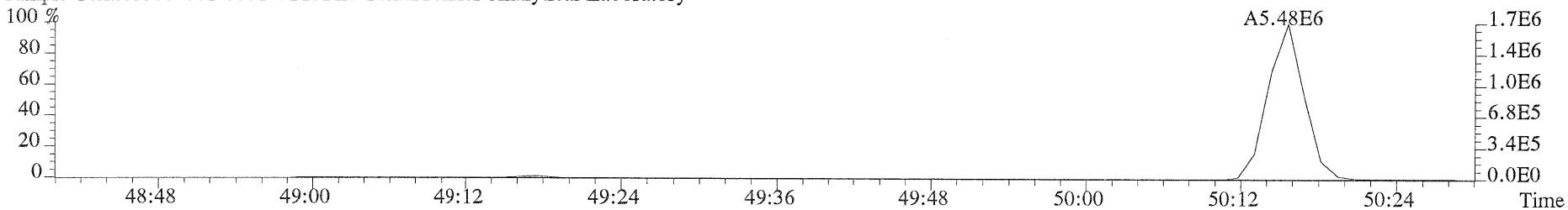
File:05JAN17Z #1-413 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



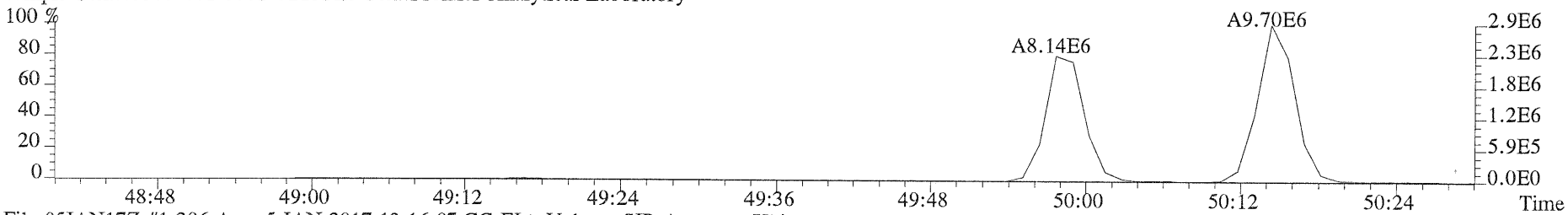
File:05JAN17Z #1-306 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



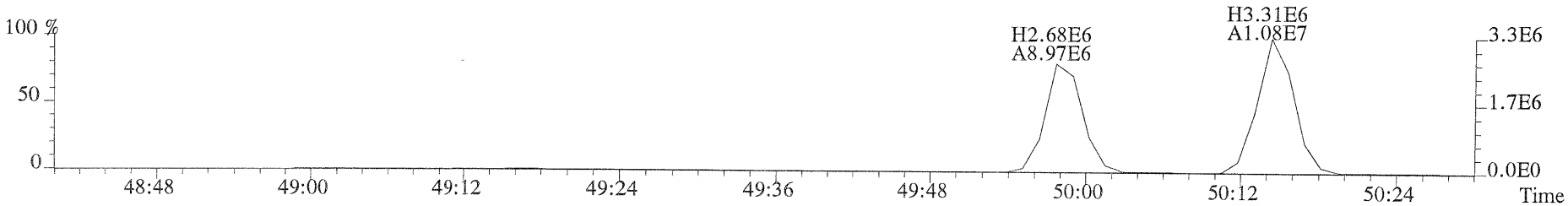
File:05JAN17Z #1-306 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



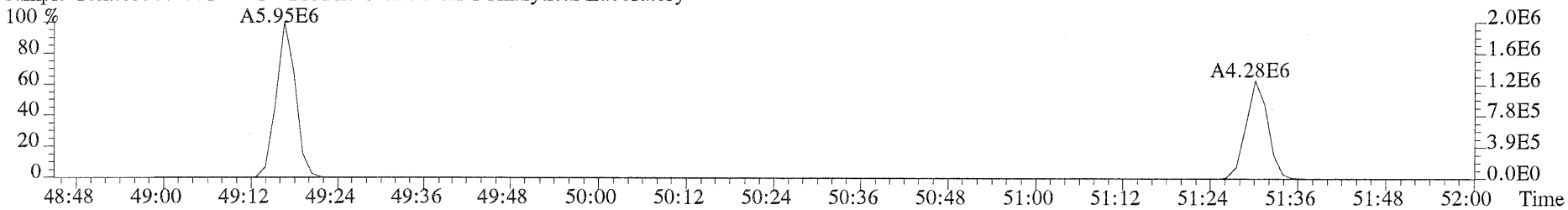
File:05JAN17Z #1-306 Acq: 5-JAN-2017 13:16:07 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 13:16:07 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:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 13:16:07 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:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



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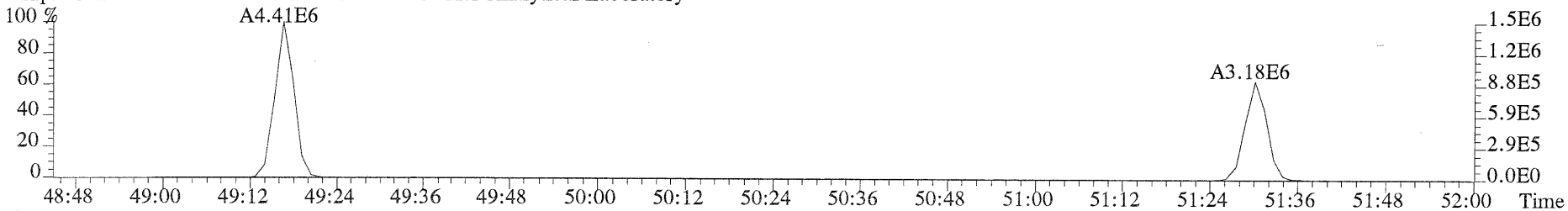
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



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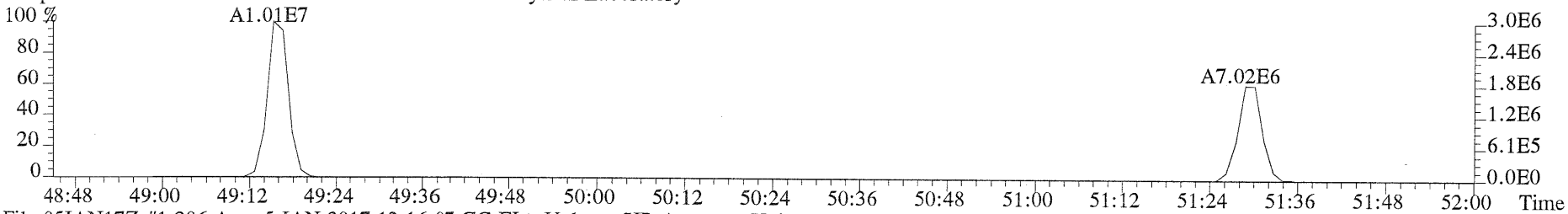
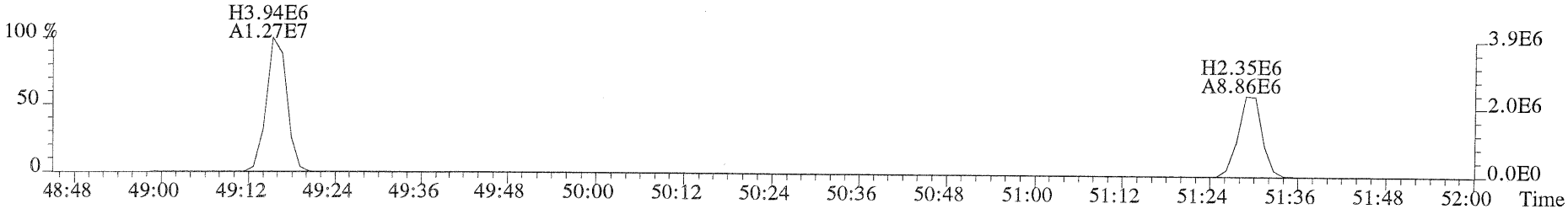
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 13:16:07 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:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



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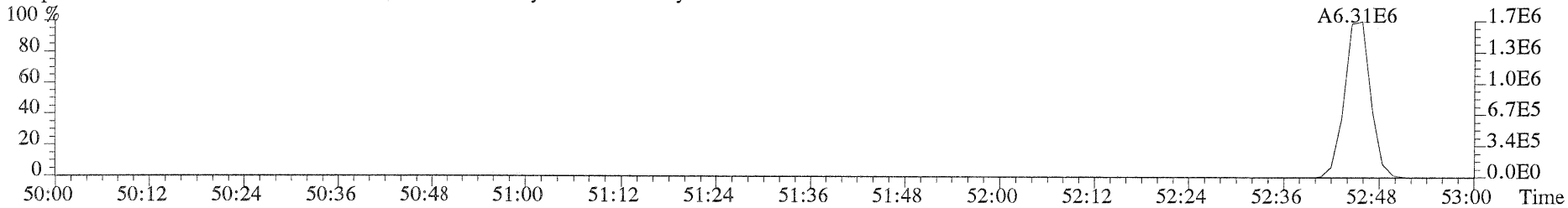
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



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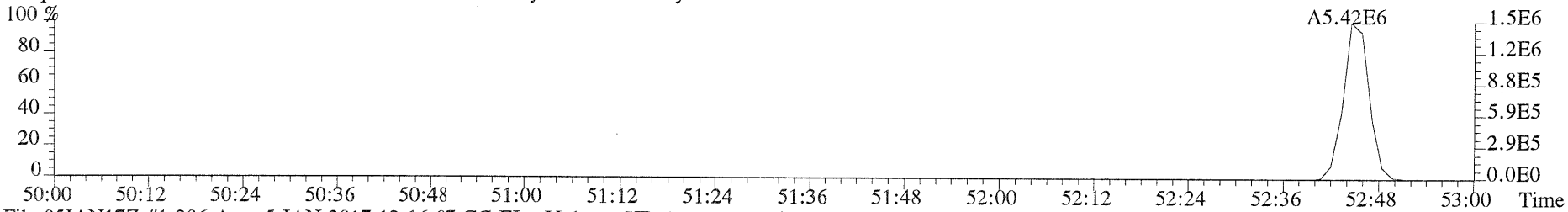
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



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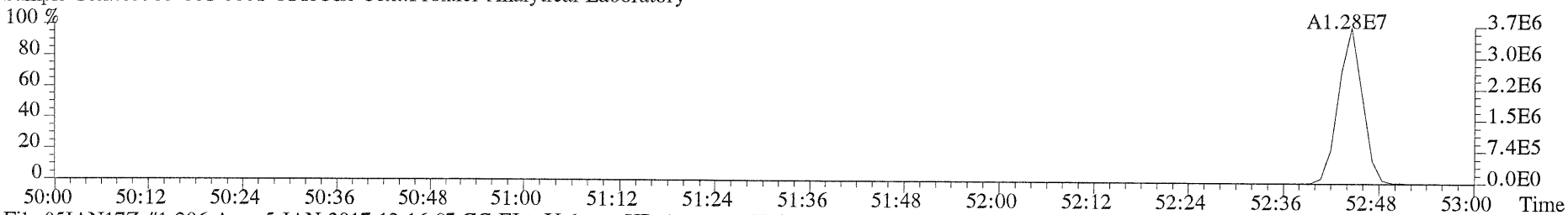
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



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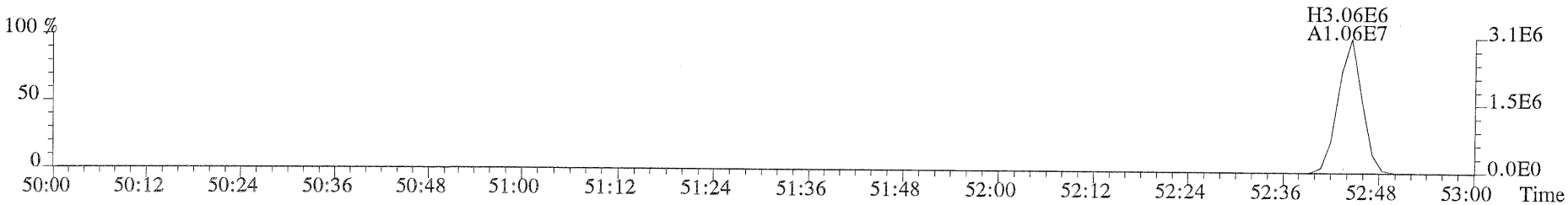
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03953-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 10311-001-0001-SA Filename: 05JAN17Z Sam:12 Acquired: 5-JAN-17 21:02:46 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR+AC-CA-CORE ConCal: ST01051 7Z1 EndCal: ST01051 7Z2
Results: 9402-10 GC Column: DB1 Amount: 5.050

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	7.83e+05	3.00 y	14:33	0.92	56.8		-	-	*	
13C-PCB-1	2.98e+07	3.14 y	14:32	1.09	1830					92.3
PCB-2	1.51e+05	3.11 y	16:47	0.87	11.1		-	-	*	
PCB-3	6.72e+05	3.10 y	17:00	0.92	45.6		-	-	*	
13C-PCB-3	3.18e+07	3.19 y	16:59	1.14	1880					94.9
PCB-4	2.23e+06	1.55 y	18:14	1.17	214		-	-	*	
PCB-10	4.65e+05	1.38 y	18:17	0.99	40.9		-	-	*	
13C-PCB-4	1.76e+07	1.60 y	18:13	0.62	1910					96.2
PCB-9	6.66e+05	1.38 y	19:56	1.11	51.7		-	-	*	
PCB-7	7.51e+05	1.65 y	19:58	1.13	57.7		-	-	*	
PCB-6	3.89e+06	1.47 y	20:34	1.11	303		-	-	*	
PCB-8	1.43e+07	1.55 y	20:56	1.12	1100		-	-	*	
PCB-5	9.82e+05	1.52 y	21:00	1.08	78.4		-	-	*	
PCB-14	*	* n	NotFnd	1.11	*		1040	1050	1.53	
PCB-11	2.34e+05	1.54 y	23:09	1.08	18.8		-	-	*	
PCB-13	1.11e+06	1.37 y	23:29	1.09	88.5		-	-	*	
PCB-12	3.19e+05	1.38 y	23:32	1.06	26.2		-	-	*	
PCB-15	7.78e+06	1.52 y	23:48	1.00	550		-	-	*	
13C-PCB-15	2.81e+07	1.63 y	23:48	1.03	1830					92.3
PCB-19	1.34e+06	1.07 y	22:09	0.95	175		-	-	*	
PCB-30	*	* n	NotFnd	1.39	*		810	785	1.43	
PCB-18	1.71e+07	1.05 y	23:42	0.97	2210		-	-	*	
PCB-17	8.94e+06	1.04 y	23:53	1.04	1070		-	-	*	
PCB-27	1.34e+06	1.07 y	24:24	1.37	122		-	-	*	
PCB-24	6.44e+05	1.09 y	24:26	1.37	58.8		-	-	*	
PCB-16	5.57e+06	1.06 y	24:53	1.12	622		-	-	*	
PCB-32	7.81e+06	1.05 y	24:55	1.25	781		-	-	*	
13C-PCB-19	1.59e+07	1.08 y	22:07	0.65	1640					82.7
13C-PCB-9	2.95e+07	1.60 y	19:55	-	6.37					
PCB-34	3.22e+05	1.01 y	25:41	0.86	51.7		-	-	*	
PCB-23	*	* n	NotFnd	0.99	*		405	399	1.76	
PCB-29	2.72e+05	1.13 y	26:00	1.01	37.4		-	-	*	
PCB-26	7.03e+06	1.06 y	26:12	0.98	993		-	-	*	
PCB-25	4.15e+06	1.05 y	26:21	1.19	483		-	-	*	
PCB-31	3.34e+07	1.04 y	26:41	1.04	4440		-	-	*	
PCB-28	4.08e+07	1.06 y	26:48	1.10	5140		-	-	*	
PCB-20	1.97e+07	1.05 y	27:23	1.04	2640		-	-	*	Co-elute PCB 21/33
PCB-21	1.97e+07	1.05 y	27:23	1.04	2640		-	-	*	Co-elute PCB 20/33
PCB-33	1.97e+07	1.05 y	27:23	1.04	2640		-	-	*	Co-elute PCB 20/21
PCB-22	1.16e+07	1.05 y	27:47	1.03	1550		-	-	*	
PCB-36	*	* n	NotFnd	0.99	*		405	399	1.76	
PCB-39	1.11e+05	0.96 y	28:50	0.99	15.6		-	-	*	
PCB-38	1.59e+05	0.95 y	29:34	1.00	22.0		-	-	*	
PCB-35	4.58e+05	1.04 y	30:06	0.94	67.8		-	-	*	
PCB-37	6.85e+06	1.03 y	30:34	1.06	896		-	-	*	
13C-PCB-37	1.43e+07	1.08 y	30:34	1.18	1800					91.1

FAL ID: 10311-001-0001-SA Filename: 05JAN17Z Sam:12 Acquired: 5-JAN-17 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR+AC-CA-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.050

PCB-54	6.64e+04	0.71	y	25:41	0.99	7.32	-	-	*	
PCB-50	9.67e+04	0.71	y	26:49	0.77	13.7	-	-	*	
PCB-53	3.15e+06	0.80	y	27:24	0.77	448	-	-	*	
PCB-51	1.05e+06	0.75	y	27:44	0.78	147	-	-	*	
PCB-45	2.73e+06	0.77	y	28:08	0.68	437	-	-	*	
PCB-46	9.90e+05	0.75	y	28:36	0.64	168	-	-	*	
PCB-52	3.21e+07	0.78	y	29:04	1.01	3460	-	-	*	Co-elute PCB 69
PCB-69	3.21e+07	0.78	y	29:04	1.01	3460	-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	0.89	*	510	560	1.37	
PCB-43	1.82e+07	0.79	y	29:22	0.76	2620	-	-	*	Co-elute PCB 49
PCB-49	1.82e+07	0.79	y	29:22	0.76	2620	-	-	*	Co-elute PCB 43
PCB-47	5.61e+06	0.79	y	29:34	0.95	646	-	-	*	
PCB-48	4.61e+06	0.79	y	29:41	0.96	523	-	-	*	Co-elute PCB 75
PCB-75	4.61e+06	0.79	y	29:41	0.96	523	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.00	*	510	560	1.22	
PCB-62	*	*	n	NotFnd	0.93	*	510	560	1.32	
PCB-44	1.27e+07	0.78	y	30:21	0.69	2000	-	-	*	
PCB-42	5.13e+06	0.80	y	30:38	0.94	595	-	-	*	Co-elute PCB 59
PCB-59	5.13e+06	0.80	y	30:38	0.94	595	-	-	*	Co-elute PCB 42
PCB-72	1.27e+07	0.77	y	31:16	1.02	1360	-	-	*	Co-elute PCB 41/71/64
PCB-41	1.27e+07	0.77	y	31:16	1.02	1360	-	-	*	Co-elute PCB 72/71/64
PCB-71	1.27e+07	0.77	y	31:16	1.02	1360	-	-	*	Co-elute PCB 72/41/64
PCB-64	1.27e+07	0.77	y	31:16	1.02	1360	-	-	*	Co-elute PCB 72/41/71
PCB-68	1.58e+05	0.74	y	31:33	1.10	15.7	-	-	*	
PCB-40	1.59e+06	0.76	y	31:43	0.59	294	-	-	*	
PCB-57	1.83e+05	0.77	y	32:02	1.04	19.3	-	-	*	
PCB-67	1.38e+06	0.79	y	32:16	0.98	154	-	-	*	
PCB-58	2.03e+05	0.76	y	32:20	1.11	20.0	-	-	*	
PCB-63	1.76e+06	0.79	y	32:30	1.03	187	-	-	*	
PCB-74	2.08e+07	0.78	y	32:45	1.07	2120	-	-	*	
PCB-61	4.89e+07	0.78	y	32:57	1.12	4770	-	-	*	Co-elute PCB 70
PCB-70	4.89e+07	0.78	y	32:57	1.12	4770	-	-	*	Co-elute PCB 61
PCB-76	4.03e+07	0.78	y	33:08	1.07	4130	-	-	*	Co-elute PCB 66
PCB-66	4.03e+07	0.78	y	33:08	1.07	4130	-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.19	*	510	560	1.03	
PCB-55	7.64e+05	0.75	y	33:38	1.06	78.6	-	-	*	
13C-PCB-54	1.81e+07	0.81	y	25:41	1.05	2550				129
PCB-104	*	*	n	NotFnd	1.04	*	295	255	1.84	
PCB-96	1.82e+05	1.55	y	31:32	0.98	44.3	-	-	*	
PCB-103	3.92e+05	1.69	y	32:02	0.83	112	-	-	*	
PCB-100	2.10e+05	1.61	y	32:19	0.82	60.8	-	-	*	
PCB-94	1.95e+05	1.61	y	32:43	0.68	68.1	-	-	*	
PCB-98	*	*	n	NotFnd	0.87	*	295	255	2.19	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.87	*	295	255	2.19	Co-elute PCB 98
PCB-95	3.67e+07	1.60	y	33:12	0.71	12300	-	-	*	
PCB-93	*	*	n	NotFnd	0.67	*	295	255	2.84	
PCB-88	6.13e+06	1.65	y	33:35	0.77	1890	-	-	*	Co-elute PCB 91
PCB-91	6.13e+06	1.65	y	33:35	0.77	1890	-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.96	*	295	255	2.00	
13C-PCB-104	8.31e+06	1.59	y	30:11	0.92	1340				67.8
13C-PCB-28	2.48e+07	1.07	y	26:46	1.30	2840				144
13C-PCB-52	1.33e+07	0.80	y	29:03	-	4.05				

PCB-56	2.21e+07	0.78	y	34:06	1.01	2160		-	-	*	Co-elute PCB 60
PCB-60	2.21e+07	0.78	y	34:06	1.01	2160		-	-	*	Co-elute PCB 56
PCB-79	7.00e+05	0.77	y	35:07	1.04	66.6		-	-	*	
PCB-78	1.89e+05	0.80	y	35:42	0.99	18.8		-	-	*	
PCB-81	1.08e+06	0.75	y	36:17	1.06	101		-	-	*	
13C-PCB-81	1.99e+07	0.78	y	36:15	1.07	2080					105
PCB-77	3.44e+06	0.78	y	36:50	0.98	345		-	-	*	
13C-PCB-77	2.02e+07	0.78	y	36:49	1.08	2080					105
PCB-155	*	*	n	NotFnd	0.98	*		515	508	1.16	
PCB-150	1.15e+05	1.30	y	35:32	0.89	13.9		-	-	*	
PCB-152	6.45e+04	1.13	y	35:58	0.87	7.99		-	-	*	
PCB-145	2.70e+04	1.36	y	36:25	0.85	3.40	J	-	-	*	
PCB-136	7.93e+06	1.26	y	36:41	0.87	980		-	-	*	
PCB-148	*	*	n	NotFnd	0.64	*		515	508	1.79	
PCB-154	8.15e+05	1.24	y	37:17	0.77	114		-	-	*	
13C-PCB-155	1.84e+07	1.26	y	34:20	1.11	1850					93.2
13C-PCB-111	2.02e+07	1.58	y	36:25	1.14	1970					99.7
13C-PCB-101	1.77e+07	1.55	y	34:46	-	5.75					
PCB-84	2.11e+07	1.56	y	34:25	0.79	3090		-	-	*	Co-elute PCB 92
PCB-92	2.11e+07	1.56	y	34:25	0.79	3090		-	-	*	Co-elute PCB 84
PCB-89	5.25e+05	1.52	y	34:35	0.76	80.0		-	-	*	
PCB-90	5.84e+07	1.56	y	34:48	0.87	7780		-	-	*	Co-elute PCB 101
PCB-101	5.84e+07	1.56	y	34:48	0.87	7780		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.99	*		551	501	1.43	
PCB-99	2.55e+07	1.56	y	35:07	0.97	3040		-	-	*	
PCB-119	1.87e+06	1.50	y	35:32	1.13	191		-	-	*	
PCB-83	2.55e+06	1.52	y	35:41	0.87	336		-	-	*	Co-elute PCB 112
PCB-112	2.55e+06	1.52	y	35:41	0.87	336		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.05	*		551	501	1.35	
PCB-97	1.52e+07	1.55	y	36:01	0.95	1850		-	-	*	
PCB-86	*	*	n	NotFnd	0.76	*		551	501	1.85	
PCB-125	2.14e+07	1.56	y	36:17	1.00	2470		-	-	*	Co-elute PCB 87/117
PCB-87	2.14e+07	1.56	y	36:17	1.00	2470		-	-	*	Co-elute PCB 125/117
PCB-117	2.14e+07	1.56	y	36:17	1.00	2470		-	-	*	Co-elute PCB 125/87
PCB-111	1.13e+06	1.60	y	36:26	1.21	108		-	-	*	Co-elute PCB 115
PCB-115	1.13e+06	1.60	y	36:26	1.21	108		-	-	*	Co-elute PCB 111
PCB-85	8.19e+06	1.56	y	36:31	0.95	994		-	-	*	Co-elute PCB 116
PCB-116	8.19e+06	1.56	y	36:31	0.95	994		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.17	*		551	501	1.21	
PCB-110	6.91e+07	1.56	y	36:54	1.15	6910		-	-	*	
PCB-82	4.54e+06	1.53	y	37:29	0.66	798		-	-	*	
PCB-124	2.17e+06	1.55	y	38:10	0.92	274		-	-	*	
PCB-108	4.00e+06	1.56	y	38:20	1.02	452		-	-	*	Co-elute PCB 107
PCB-107	4.00e+06	1.56	y	38:20	1.02	452		-	-	*	Co-elute PCB 108
PCB-123	8.85e+05	1.54	y	38:28	1.10	95.0		-	-	*	
13C-PCB-123	1.68e+07	1.59	y	38:26	1.05	2180					110
PCB-118	5.20e+07	1.56	y	38:38	0.92	6290		-	-	*	Co-elute PCB 106
PCB-106	5.20e+07	1.56	y	38:38	0.92	6290		-	-	*	Co-elute PCB 118
13C-PCB-118	1.77e+07	1.59	y	38:38	1.10	2210					112
PCB-114	1.26e+06	1.55	y	39:16	0.95	152		-	-	*	
13C-PCB-114	1.73e+07	1.62	y	39:14	1.05	2260					114
PCB-122	7.00e+05	1.66	y	39:22	1.02	79.3		-	-	*	
PCB-105	1.89e+07	1.56	y	40:03	0.99	2230		-	-	*	
13C-PCB-105	1.69e+07	1.59	y	40:03	1.06	2180					110

FAL ID: 10311-001-0001-SA Filename: 05JAN17Z Sam:12 Acquired: 5-JAN-17 21:02:46 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR+AC-CA-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.050

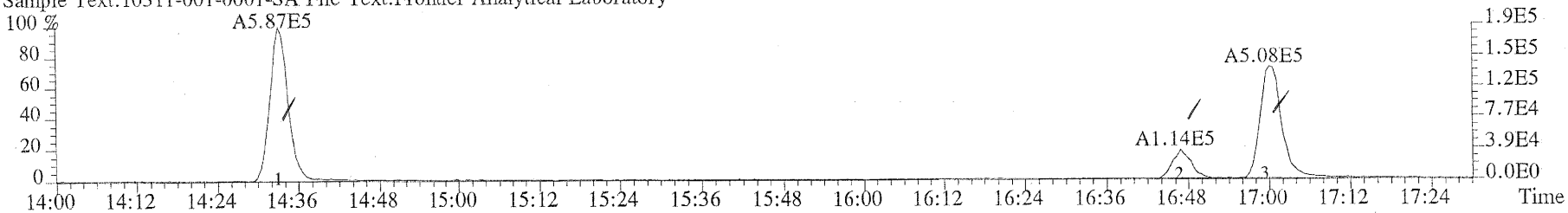
PCB-127	*	*	n	NotFnd	0.92	*	444	421	1.27		
PCB-126	2.26e+05	1.58	y	42:12	1.00	26.9	-	-	*		
13C-PCB-126	1.66e+07	1.57	y	42:12	1.00	2270				115	
PCB-151	8.25e+06	1.28	y	37:53	0.67	1450	-	-	*		
PCB-135	5.28e+06	1.25	y	38:05	0.72	872	-	-	*		
PCB-144	1.94e+06	1.27	y	38:11	0.67	340	-	-	*		
PCB-147	9.25e+05	1.22	y	38:20	0.76	143	-	-	*		
PCB-139	3.65e+07	1.27	y	38:33	0.76	5690	-	-	*	Co-elute PCB 149	
PCB-149	3.65e+07	1.27	y	38:33	0.76	5690	-	-	*	Co-elute PCB 139	
PCB-140	3.44e+05	1.27	y	38:44	0.73	55.4	-	-	*		
PCB-143	2.41e+06	1.23	y	39:11	0.69	412	-	-	*	Co-elute PCB 134	
PCB-134	2.41e+06	1.23	y	39:11	0.69	412	-	-	*	Co-elute PCB 143	
PCB-131	1.40e+06	1.31	y	39:27	0.71	234	-	-	*	Co-elute PCB 133	
PCB-133	1.40e+06	1.31	y	39:27	0.71	234	-	-	*	Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.62	*	420	417	1.85		
PCB-165	7.40e+06	1.24	y	39:48	0.85	1030	-	-	*	Co-elute PCB 146	
PCB-146	7.40e+06	1.24	y	39:48	0.85	1030	-	-	*	Co-elute PCB 165	
PCB-161	1.41e+07	1.28	y	40:03	0.79	2120	-	-	*	Co-elute PCB 132	
PCB-132	1.41e+07	1.28	y	40:03	0.79	2120	-	-	*	Co-elute PCB 161	
PCB-153	4.61e+07	1.29	y	40:12	0.84	6490	-	-	*		
PCB-168	9.75e+04	1.17	y	40:25	0.91	12.6	-	-	*		
PCB-141	7.57e+06	1.27	y	40:54	0.74	1220	-	-	*		
PCB-137	2.51e+06	1.21	y	41:16	0.65	457	-	-	*		
PCB-130	2.70e+06	1.27	y	41:21	0.69	465	-	-	*		
PCB-138	5.31e+07	1.27	y	41:42	0.95	6600	-	-	*	Co-elute PCB 163/164	
PCB-163	5.31e+07	1.27	y	41:42	0.95	6600	-	-	*	Co-elute PCB 138/164	
PCB-164	5.31e+07	1.27	y	41:42	0.95	6600	-	-	*	Co-elute PCB 138/163	
PCB-158	6.43e+06	1.27	y	41:55	0.94	811	-	-	*	Co-elute PCB 160	
PCB-160	6.43e+06	1.27	y	41:55	0.94	811	-	-	*	Co-elute PCB 158	
PCB-129	1.98e+06	1.28	y	42:10	0.59	399	-	-	*		
PCB-166	2.46e+05	1.23	y	42:38	0.90	32.3	-	-	*		
PCB-159	3.48e+05	1.39	y	42:58	0.96	42.7	-	-	*		
PCB-128	8.28e+06	1.28	y	43:11	0.81	1200	-	-	*	Co-elute PCB 162	
PCB-162	8.28e+06	1.28	y	43:11	0.81	1200	-	-	*	Co-elute PCB 128	
PCB-167	2.39e+06	1.27	y	43:34	0.88	309	-	-	*		
13C-PCB-167	1.74e+07	1.26	y	43:34	1.16	2060				104	
PCB-156	6.27e+06	1.24	y	44:48	0.92	784	-	-	*		
13C-PCB-156	1.71e+07	1.28	y	44:46	1.11	2120				107	
PCB-157	1.29e+06	1.26	y	45:03	0.94	160	-	-	*		
13C-PCB-157	1.69e+07	1.25	y	45:01	1.14	2030				103	
PCB-169	*	*	n	NotFnd	0.89	*	420	417	1.23		
13C-PCB-169	1.56e+07	1.27	y	46:55	1.10	1940				98.2	

FAL ID: 10311-001-0001-SA Filename: 05JAN17Z Sam:12 Acquired: 5-JAN-17 21:02:46 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR+AC-CA-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.050

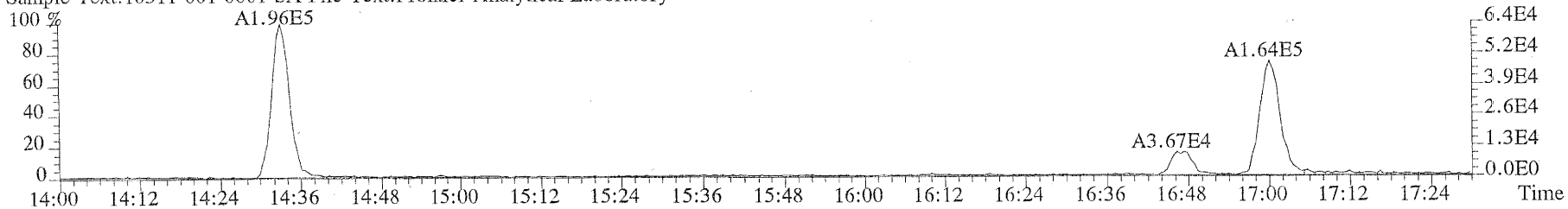
PCB-188	2.94e+04	1.17	y	39:50	1.04	3.26	J	-	-	*	
13C-PCB-188	1.72e+07	1.07	y	39:48	1.22	1940					97.8
PCB-184	*	*	n	NotFnd	1.08	*		391	388	0.916	
PCB-179	5.36e+06	1.06	y	40:59	1.03	674		-	-	*	
PCB-176	1.85e+06	1.05	y	41:26	1.01	236		-	-	*	
PCB-186	*	*	n	NotFnd	1.00	*		391	388	0.985	
PCB-178	1.98e+06	1.04	y	42:28	0.73	348		-	-	*	
PCB-175	4.21e+05	0.99	y	42:48	0.76	71.1		-	-	*	
PCB-187	1.24e+07	1.06	y	42:58	0.84	1900		-	-	*	Co-elute PCB 182
PCB-182	1.24e+07	1.06	y	42:58	0.84	1900		-	-	*	Co-elute PCB 187
PCB-183	6.26e+06	1.05	y	43:16	0.83	976		-	-	*	
PCB-185	1.03e+06	1.04	y	43:54	0.77	172		-	-	*	
PCB-174	9.56e+06	1.04	y	44:13	0.76	1630		-	-	*	
PCB-181	*	*	n	NotFnd	0.77	*		391	388	1.28	
PCB-177	5.39e+06	1.04	y	44:30	0.69	1000		-	-	*	
PCB-171	2.88e+06	1.05	y	44:46	0.73	508		-	-	*	
PCB-173	2.07e+05	1.04	y	45:11	0.67	40.2		-	-	*	
PCB-172	1.56e+06	1.03	y	45:34	0.69	290		-	-	*	
PCB-192	*	*	n	NotFnd	0.91	*		391	388	1.09	
PCB-180	2.03e+07	1.06	y	45:56	0.92	2860		-	-	*	
PCB-193	1.38e+06	1.02	y	46:05	0.97	183		-	-	*	
PCB-191	5.03e+05	1.07	y	46:19	0.97	67.0		-	-	*	
PCB-170	8.13e+06	1.05	y	47:13	0.68	1530		-	-	*	
PCB-190	2.27e+06	1.04	y	47:23	0.93	314		-	-	*	
PCB-189	4.22e+05	1.05	y	48:35	0.99	62.8		-	-	*	
13C-PCB-189	1.34e+07	1.07	y	48:35	1.10	1670					84.5
PCB-202	9.20e+05	0.91	y	44:56	0.86	146		-	-	*	
PCB-201	6.38e+05	0.94	y	45:24	0.86	101		-	-	*	
PCB-204	*	*	n	NotFnd	0.87	*		410	405	1.47	
PCB-197	1.87e+05	0.87	y	45:47	0.88	28.9		-	-	*	
PCB-200	5.69e+05	0.90	y	46:33	0.88	87.6		-	-	*	
PCB-198	1.74e+05	0.94	y	47:44	0.65	36.1		-	-	*	
PCB-199	3.08e+06	0.93	y	47:49	0.60	701		-	-	*	
PCB-203	3.79e+06	0.92	y	48:04	0.68	762		-	-	*	Co-elute PCB 196
PCB-196	3.79e+06	0.92	y	48:04	0.68	762		-	-	*	Co-elute PCB 203
13C-PCB-202	1.45e+07	0.89	y	44:55	1.09	1830					92.5
13C-PCB-178	1.24e+07	1.07	y	42:27	0.89	1910					96.2
13C-PCB-138	1.44e+07	1.24	y	41:40	-	5.28					
PCB-195	1.32e+06	0.87	y	49:12	0.70	313		-	-	*	
PCB-194	3.18e+06	0.92	y	50:02	0.75	705		-	-	*	
PCB-205	2.17e+05	1.01	y	50:17	0.98	37.0		-	-	*	
13C-PCB-205	1.18e+07	0.90	y	50:17	1.24	1910					96.6
PCB-208	4.68e+05	1.29	y	49:18	0.90	85.0		-	-	*	
13C-PCB-208	1.21e+07	0.80	y	49:17	1.34	1810					91.6
PCB-207	2.22e+05	1.29	y	49:37	0.98	44.0		-	-	*	
PCB-206	1.20e+06	1.35	y	51:33	0.92	313		-	-	*	
13C-PCB-206	8.26e+06	0.78	y	51:32	0.96	1720					86.9
PCB-209	6.78e+05	1.22	y	52:47	0.97	125		-	-	*	
13C-PCB-209	1.10e+07	1.21	y	52:47	1.40	1580					80.0
13C-PCB-194	9.86e+06	0.90	y	50:01	-	4.88					

Analyst: _____ Date: 1/9/17

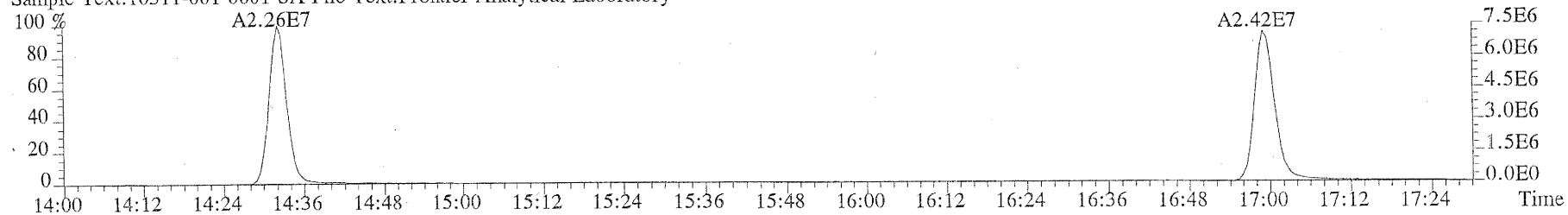
File:05JAN17Z #1-784 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



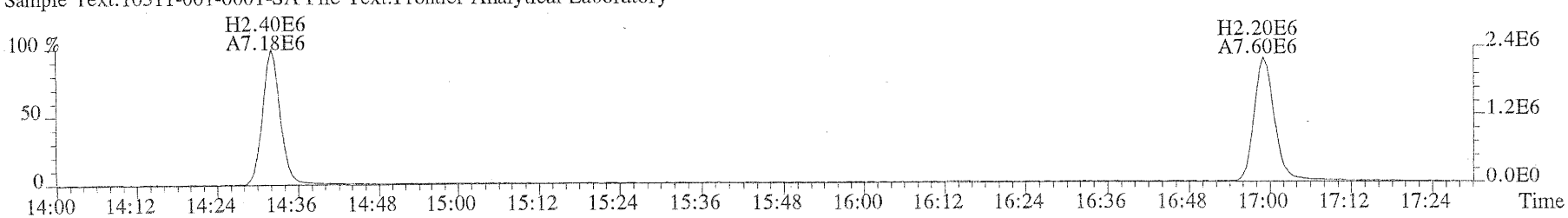
File:05JAN17Z #1-784 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



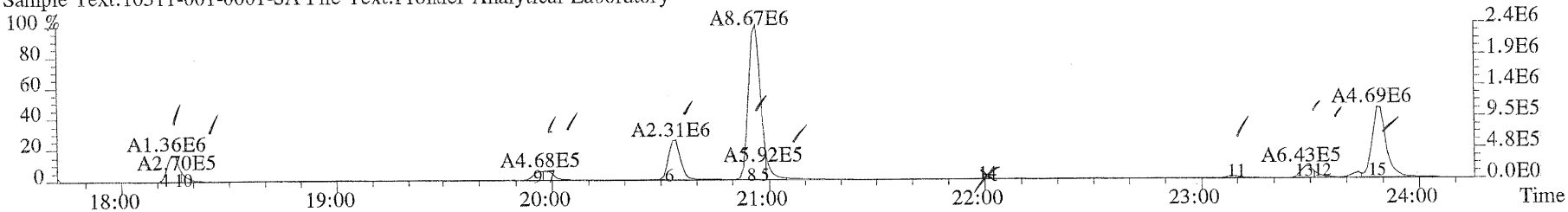
File:05JAN17Z #1-784 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



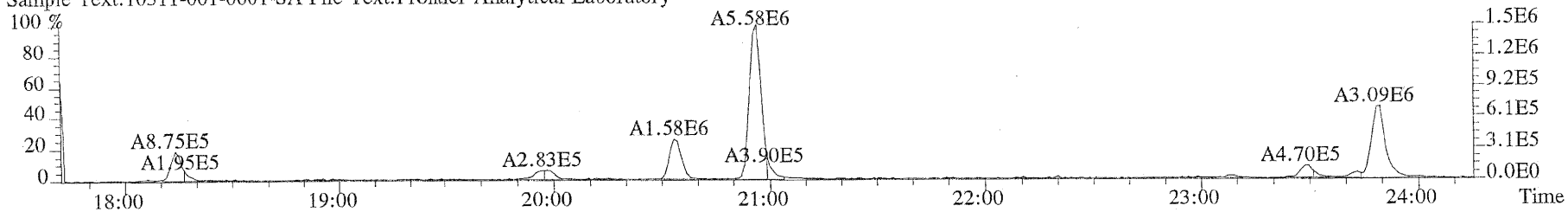
File:05JAN17Z #1-784 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



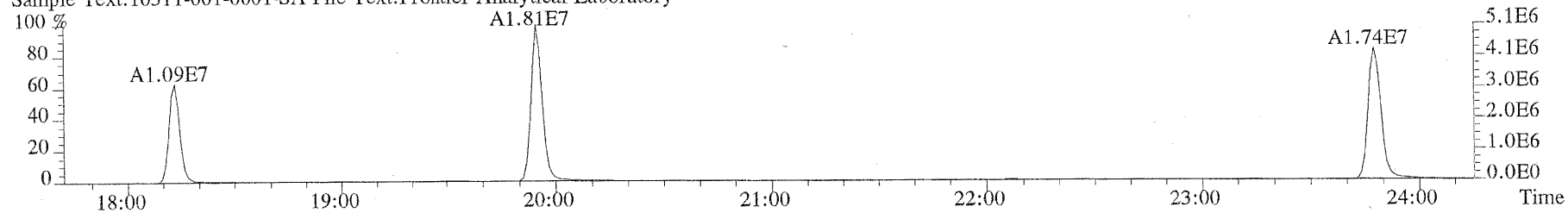
File:05JAN17Z #1-509 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



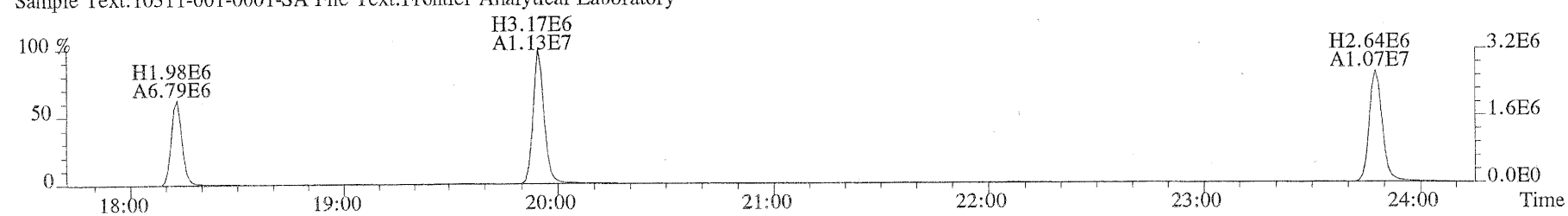
File:05JAN17Z #1-509 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



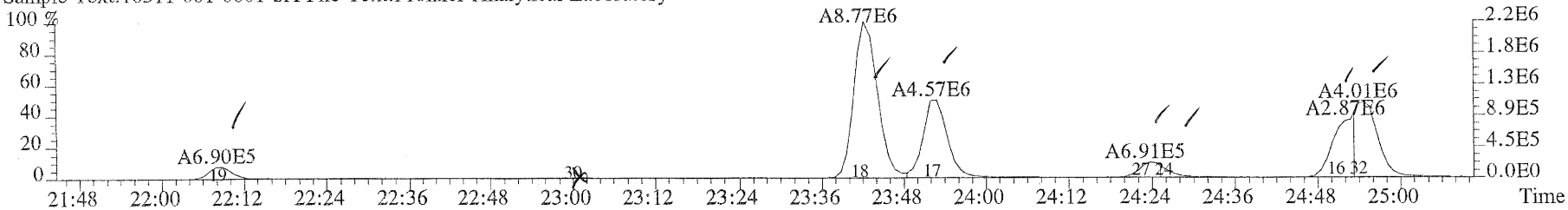
File:05JAN17Z #1-509 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



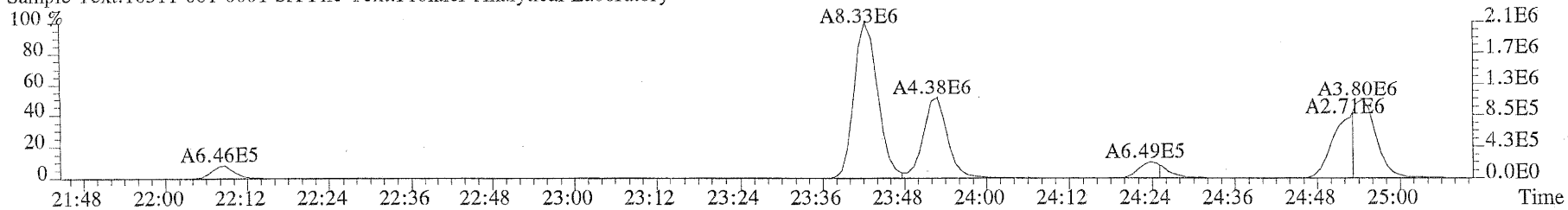
File:05JAN17Z #1-509 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



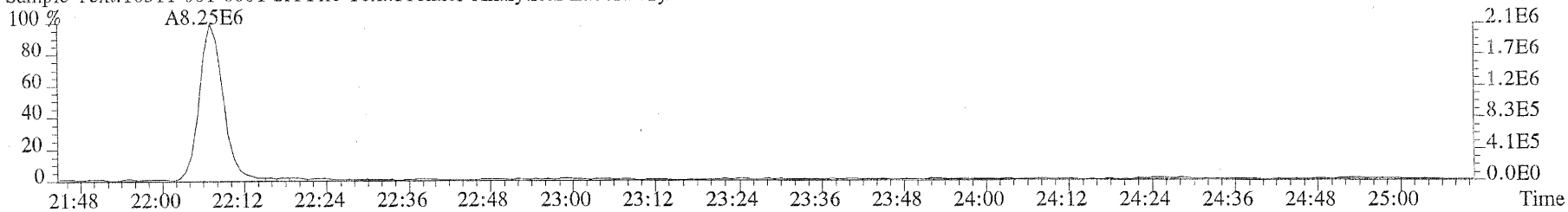
File:05JAN17Z #1-509 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



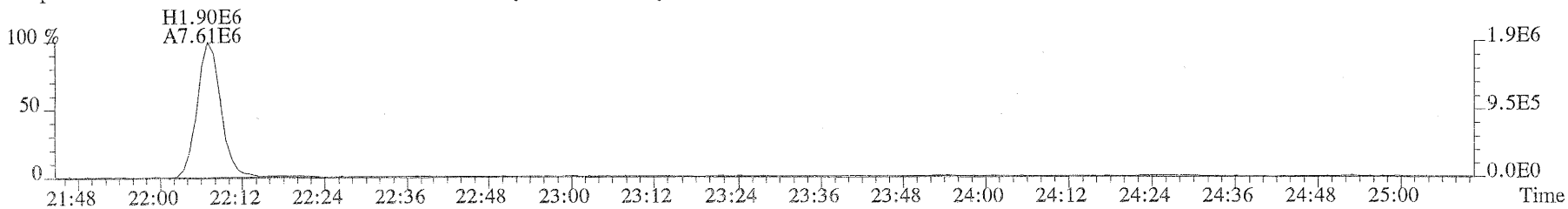
File:05JAN17Z #1-509 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



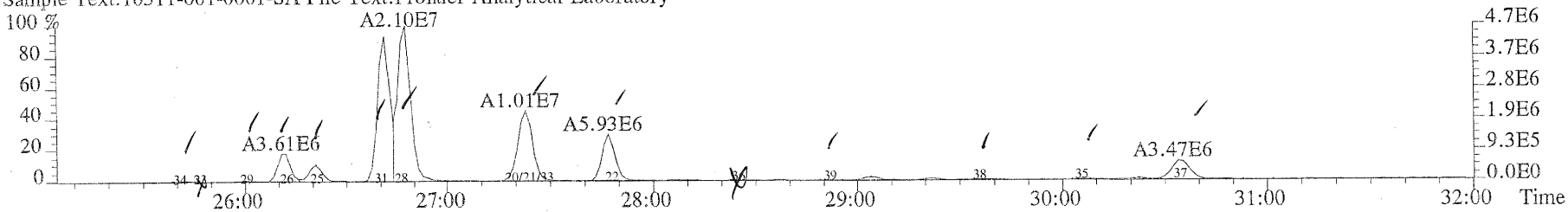
File:05JAN17Z #1-509 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



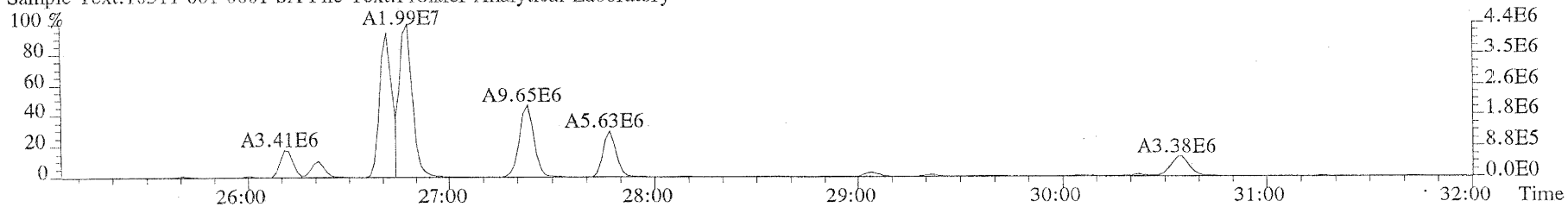
File:05JAN17Z #1-509 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



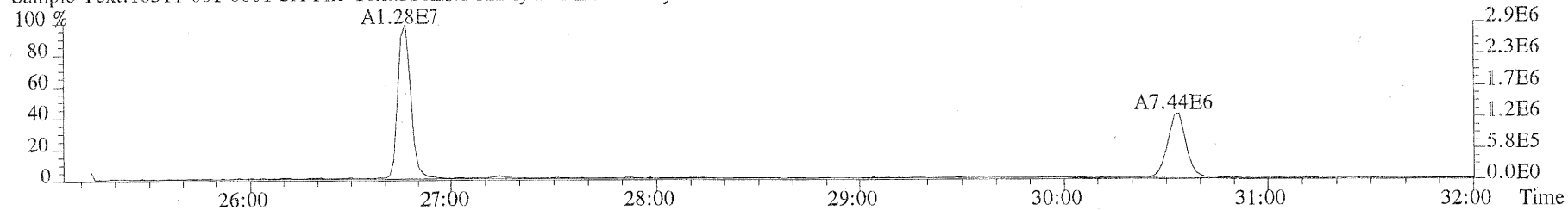
File:05JAN17Z #1-407 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



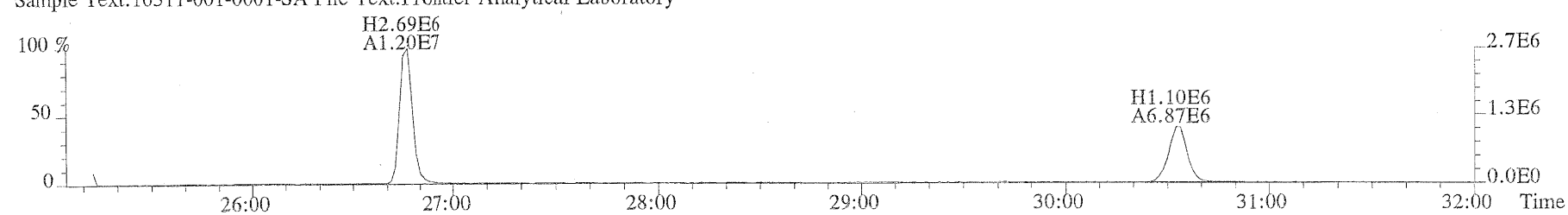
File:05JAN17Z #1-407 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



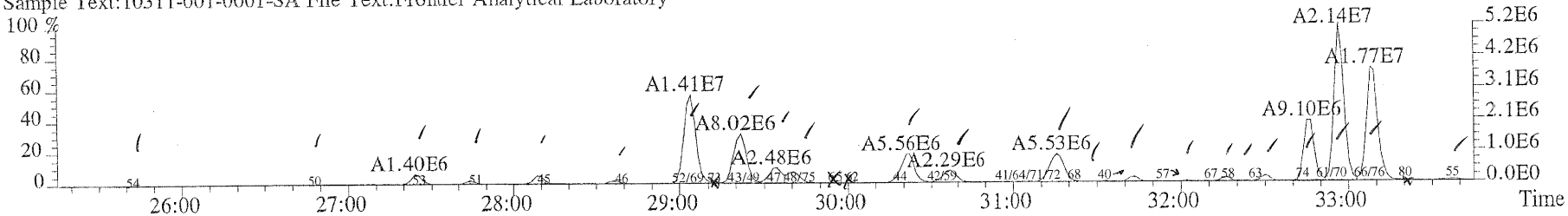
File:05JAN17Z #1-407 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



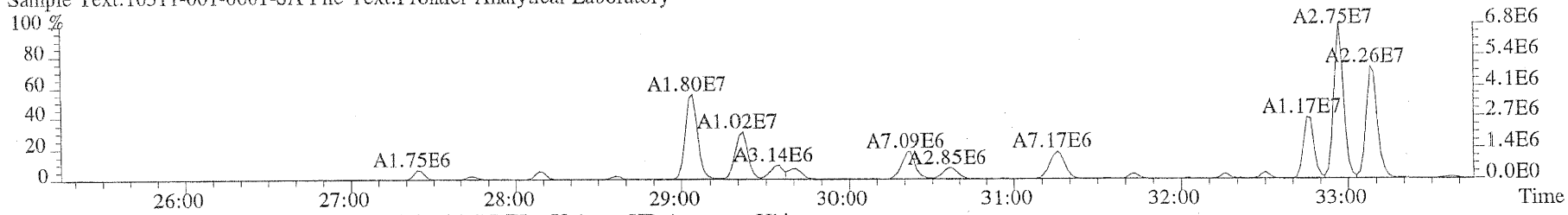
File:05JAN17Z #1-407 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



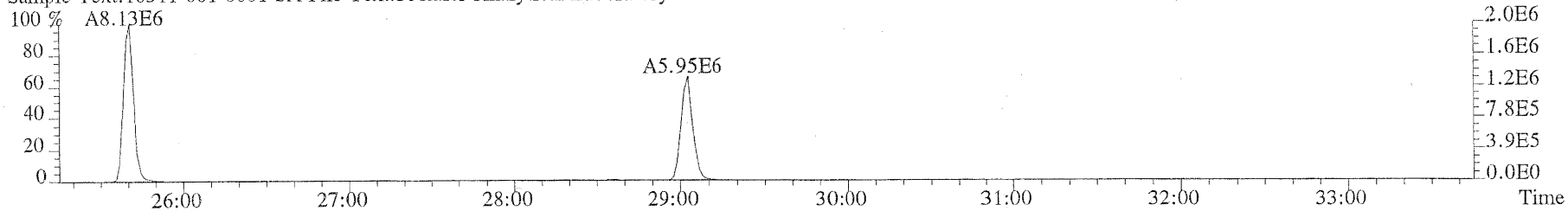
File:05JAN17Z #1-407 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



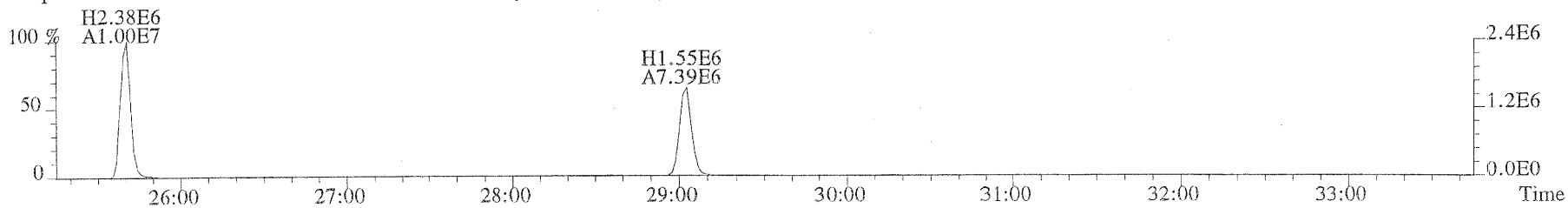
File:05JAN17Z #1-407 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



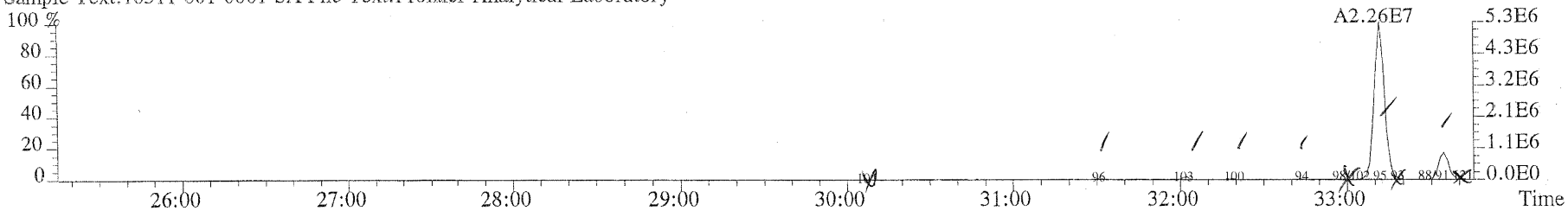
File:05JAN17Z #1-407 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



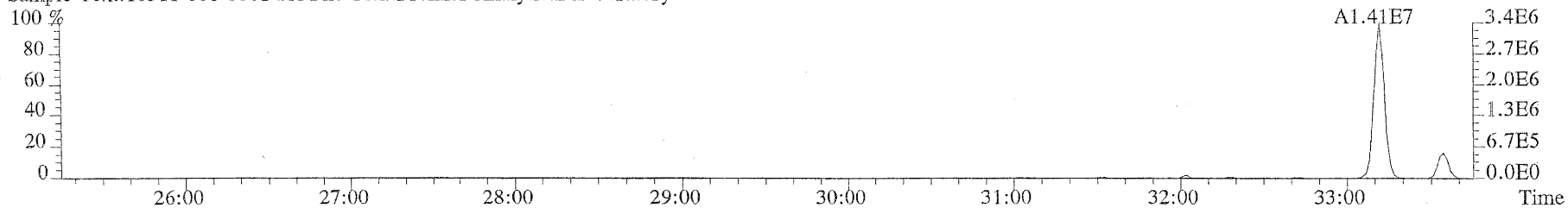
File:05JAN17Z #1-407 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



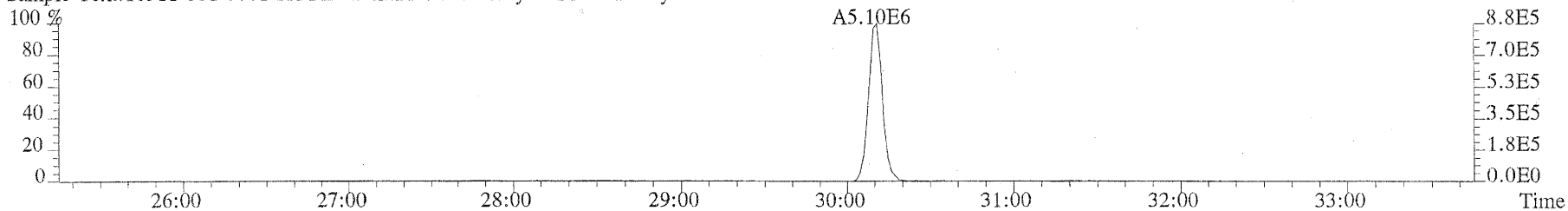
File:05JAN17Z #1-407 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



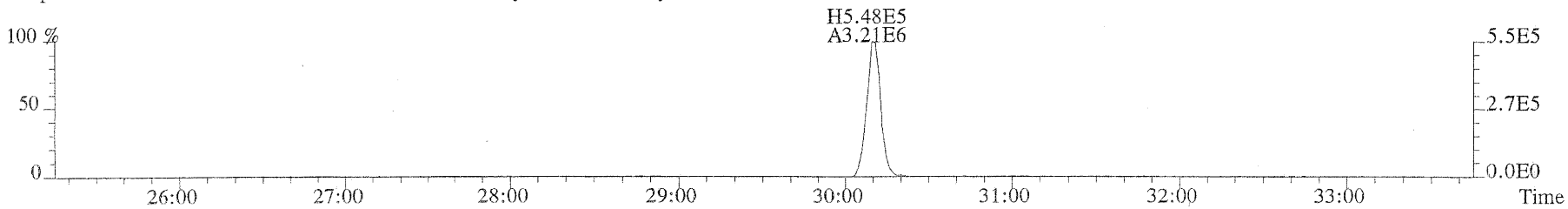
File:05JAN17Z #1-407 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



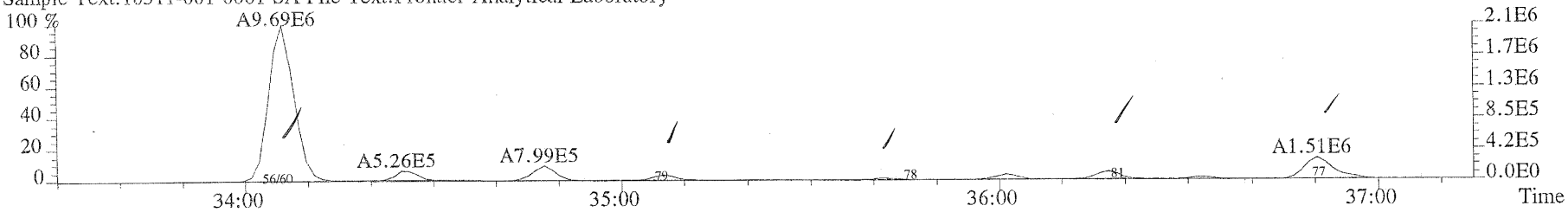
File:05JAN17Z #1-407 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



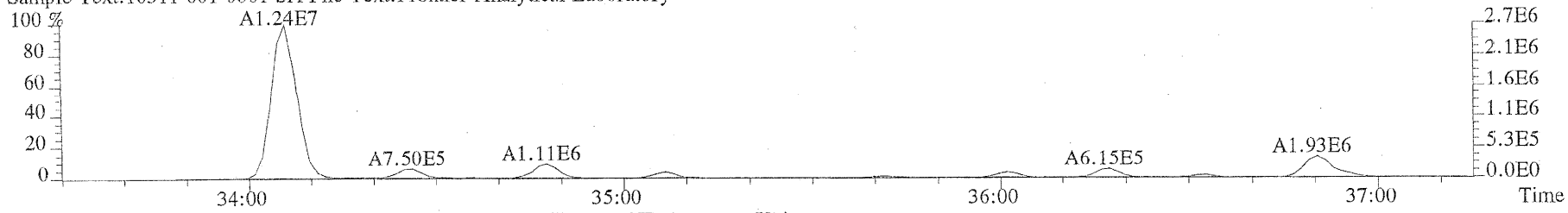
File:05JAN17Z #1-407 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



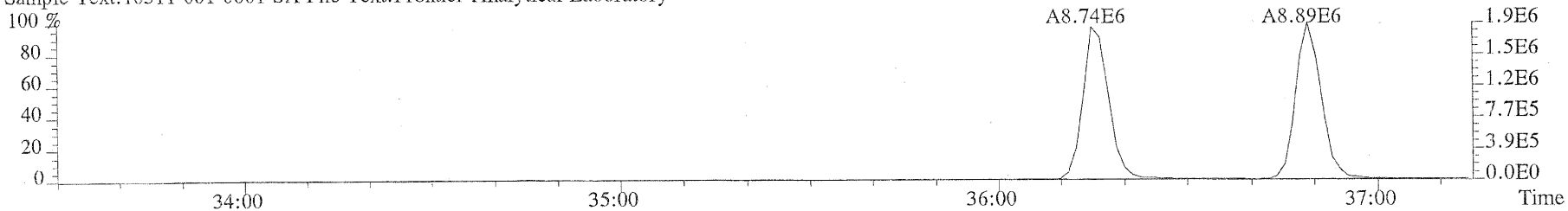
File:05JAN17Z #1-181 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



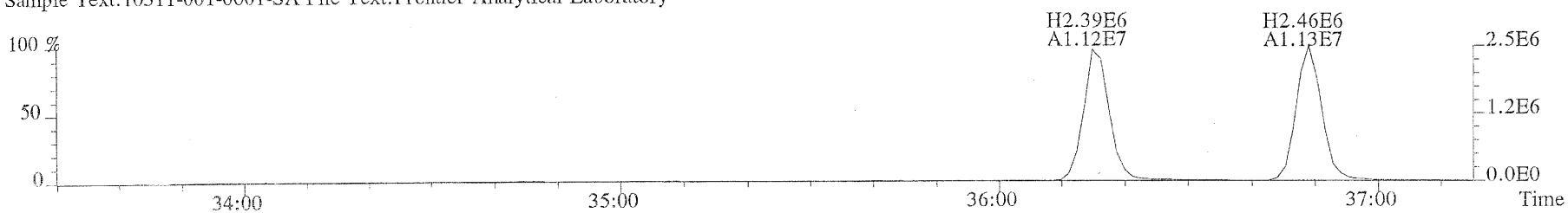
File:05JAN17Z #1-181 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



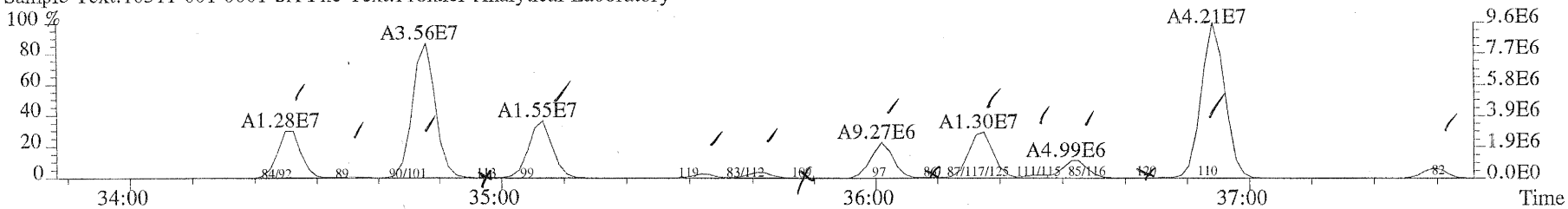
File:05JAN17Z #1-181 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



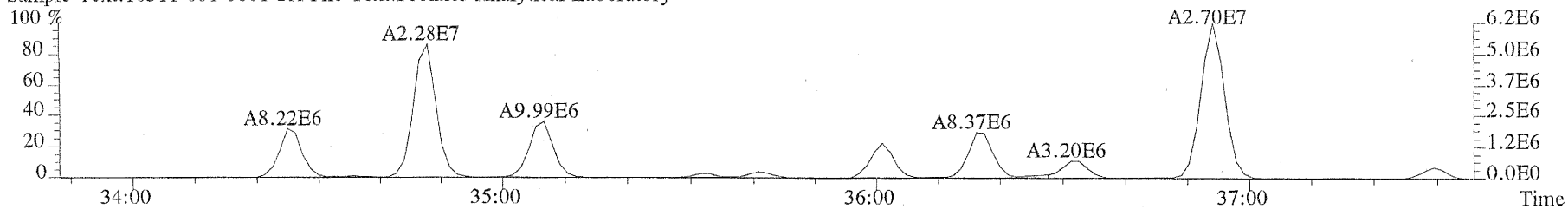
File:05JAN17Z #1-181 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



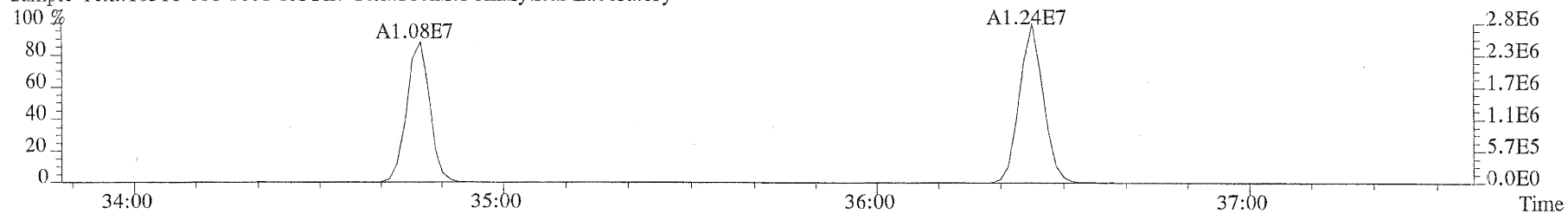
File:05JAN17Z #1-181 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



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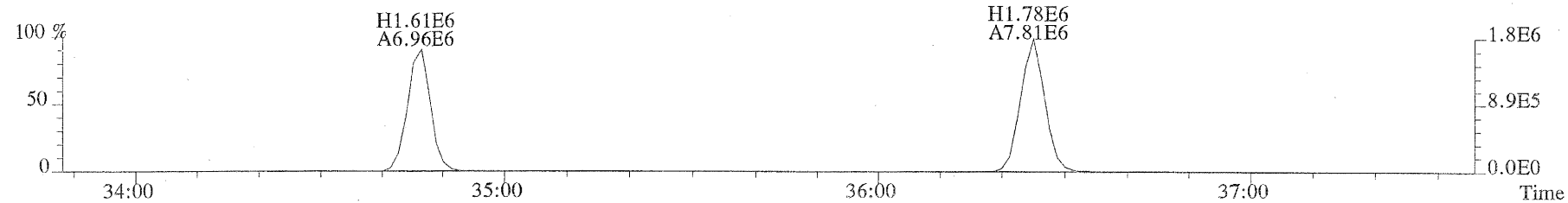
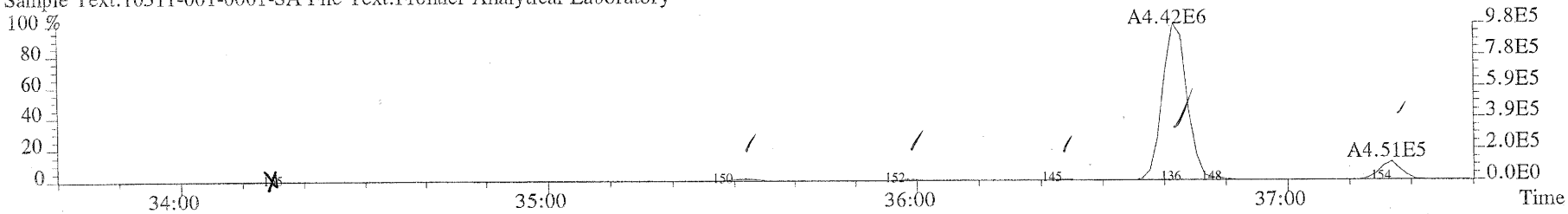
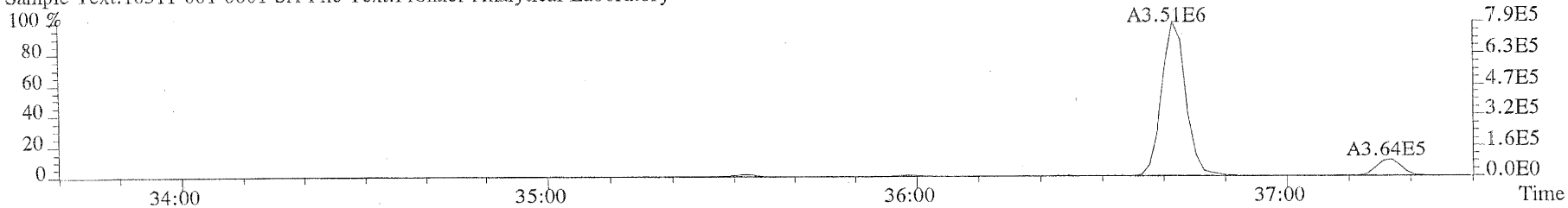
339.9178 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



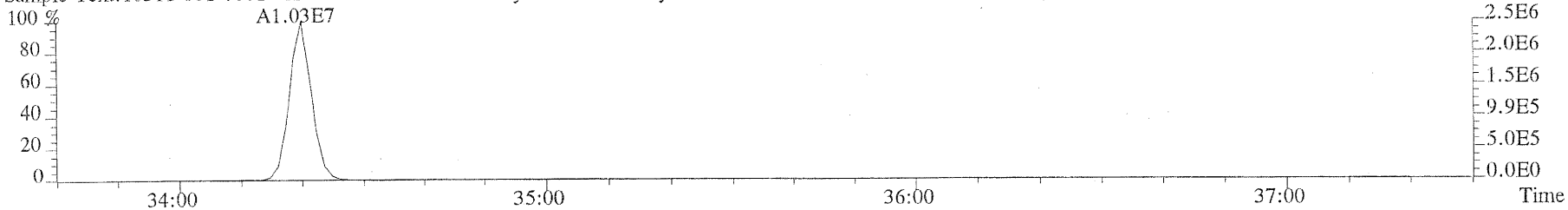
File:05JAN17Z #1-181 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



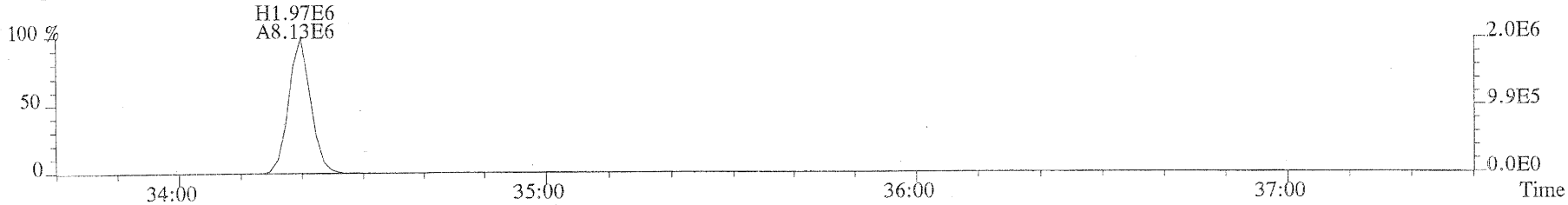
File:05JAN17Z #1-181 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



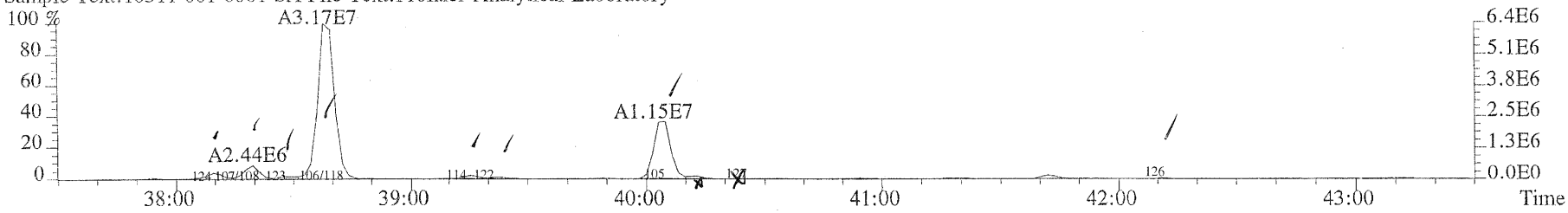
File:05JAN17Z #1-181 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



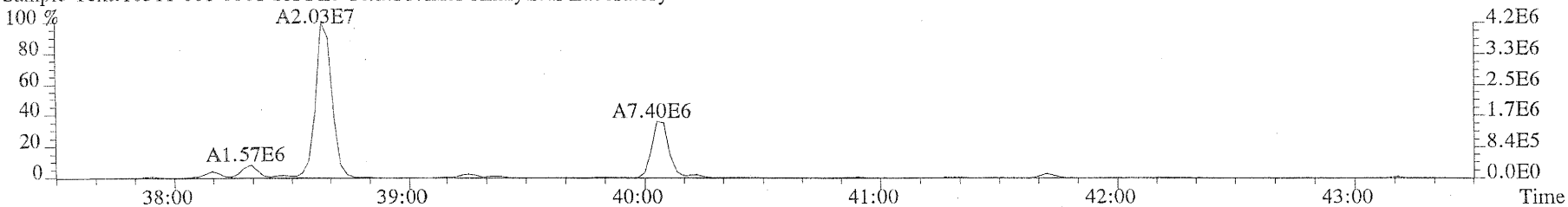
File:05JAN17Z #1-181 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



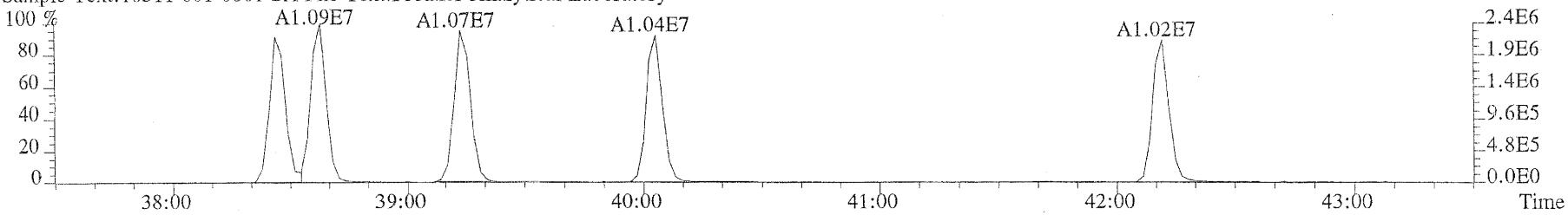
File:05JAN17Z #1-413 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



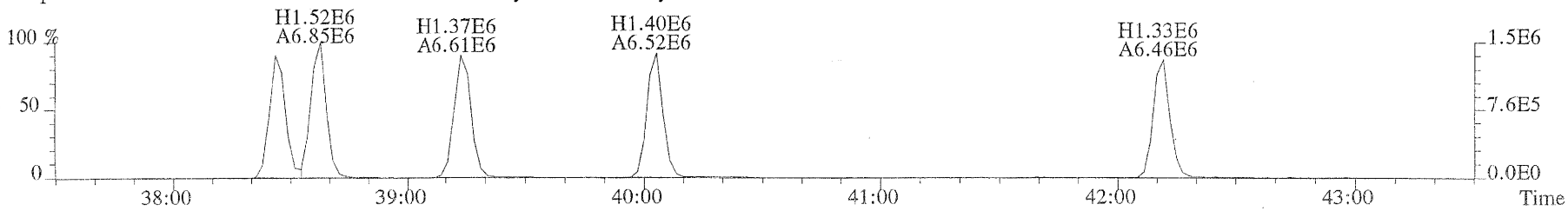
File:05JAN17Z #1-413 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



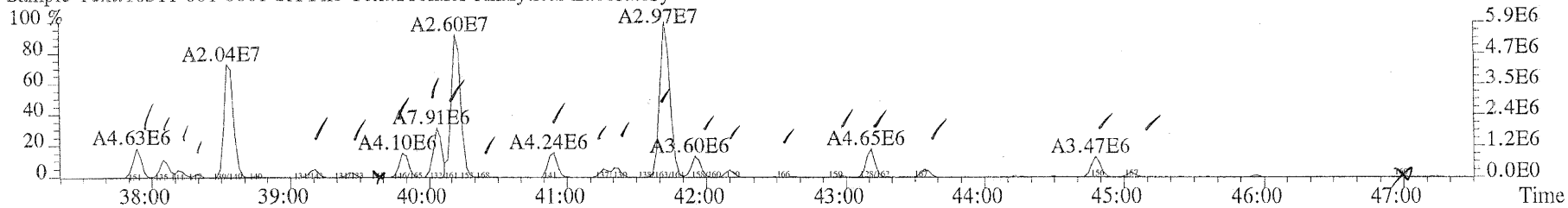
File:05JAN17Z #1-413 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



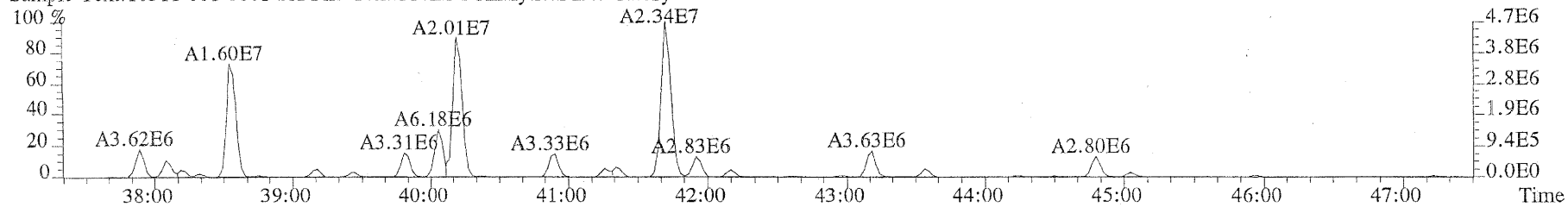
File:05JAN17Z #1-413 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



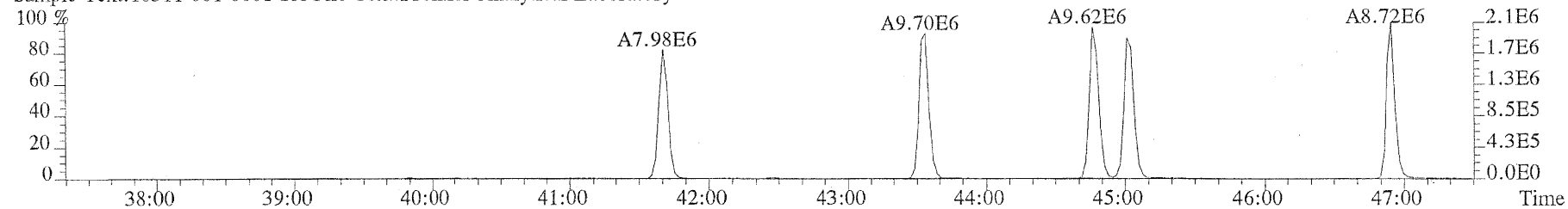
File:05JAN17Z #1-413 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



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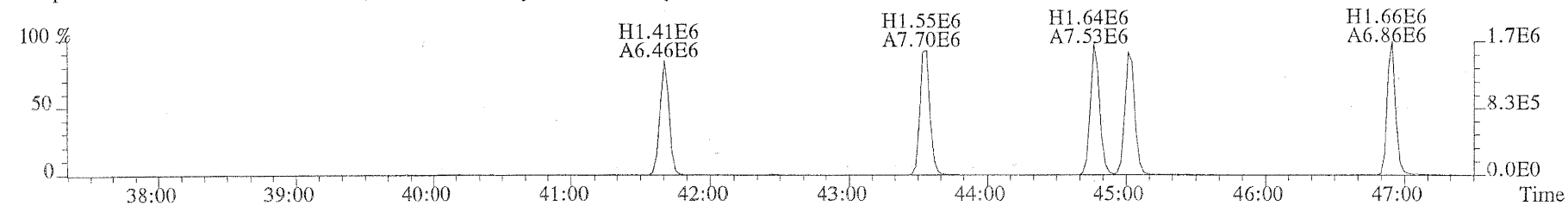
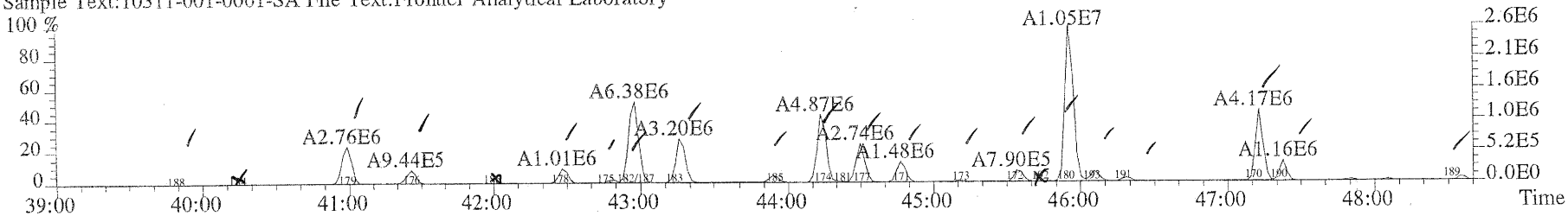
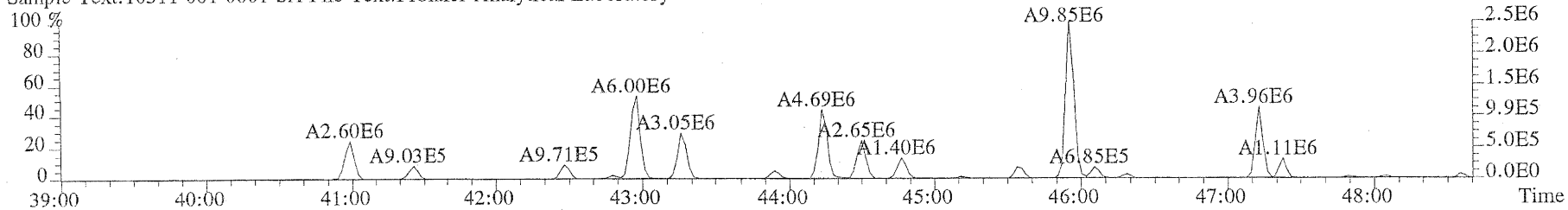
373.8788 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



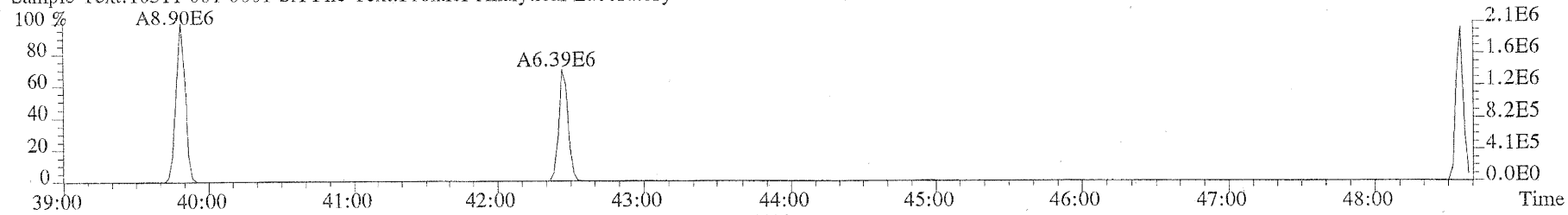
File:05JAN17Z #1-413 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



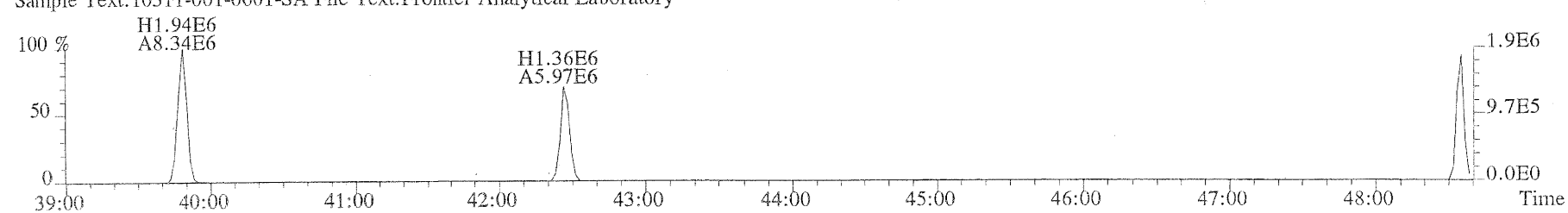
File:05JAN17Z #1-413 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



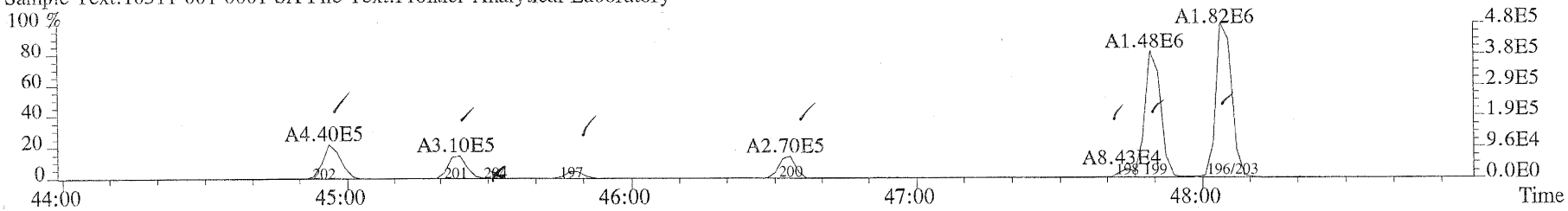
File:05JAN17Z #1-413 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



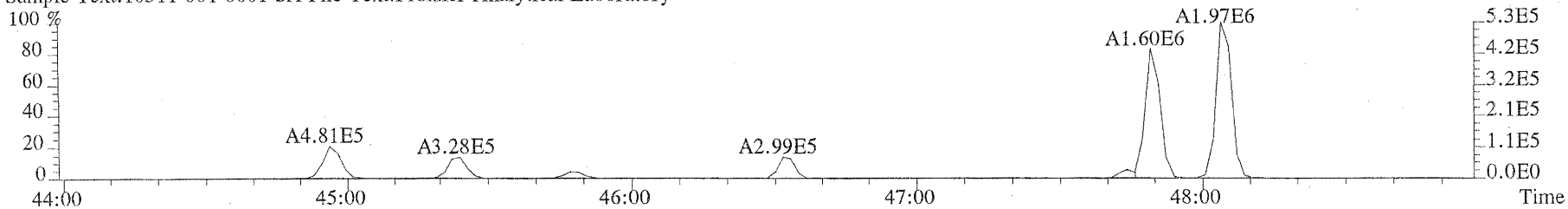
File:05JAN17Z #1-413 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



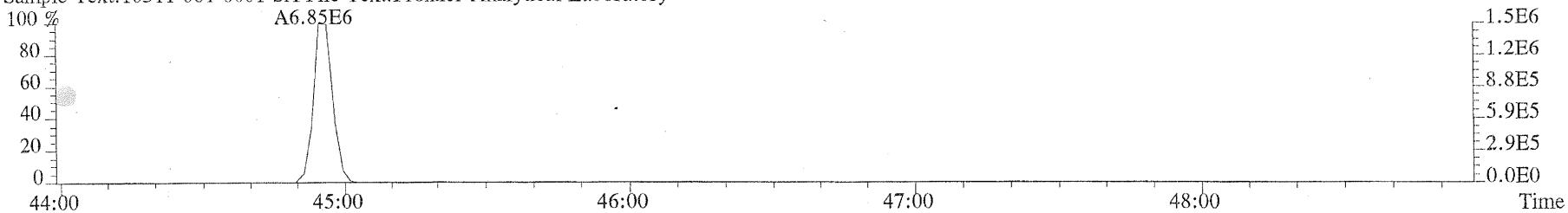
File:05JAN17Z #1-413 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



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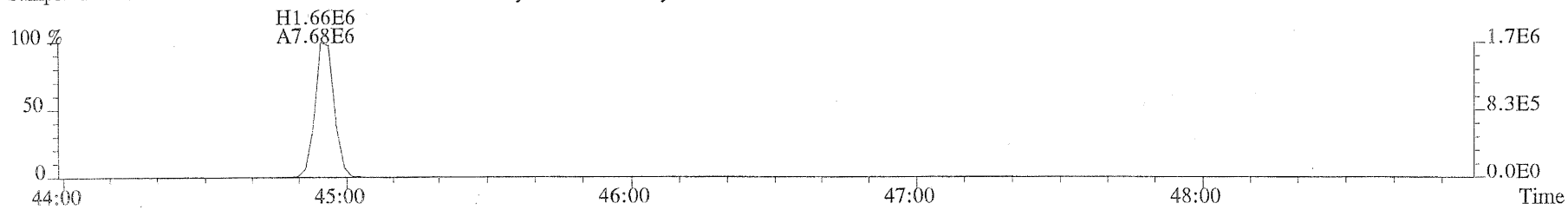
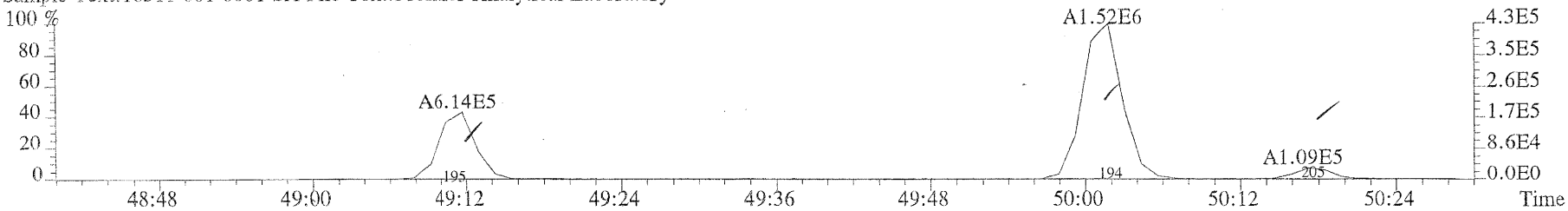
441.8008 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



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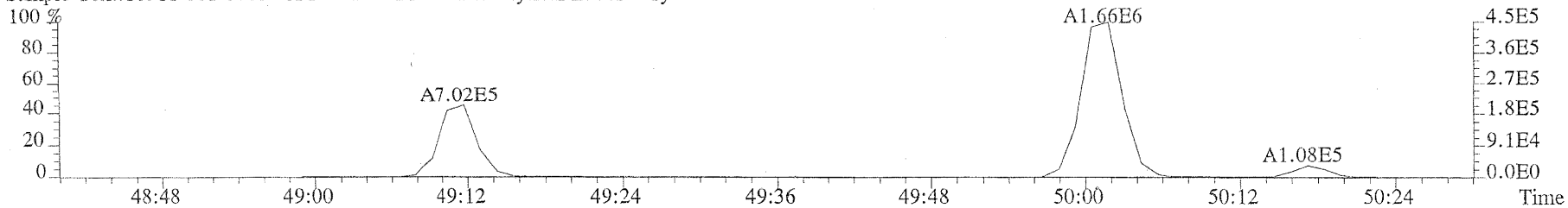
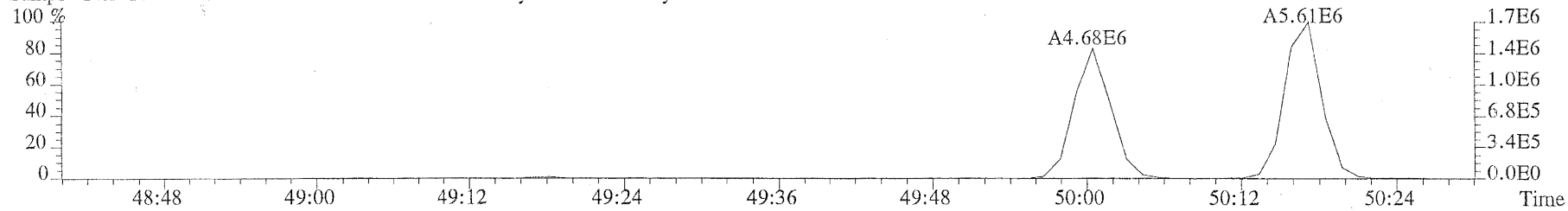
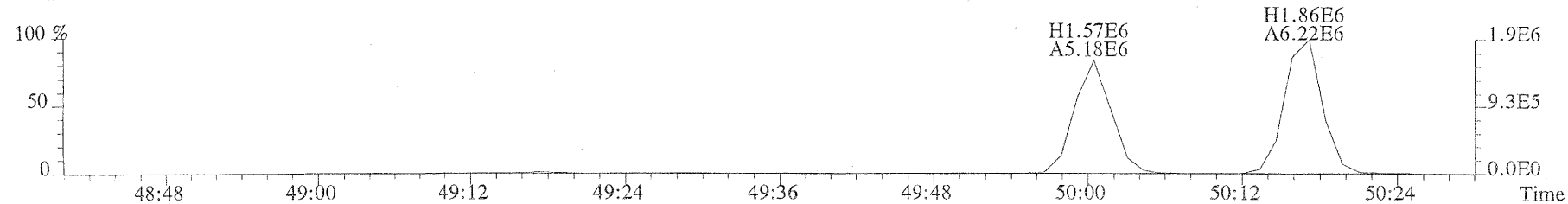
429.7606 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



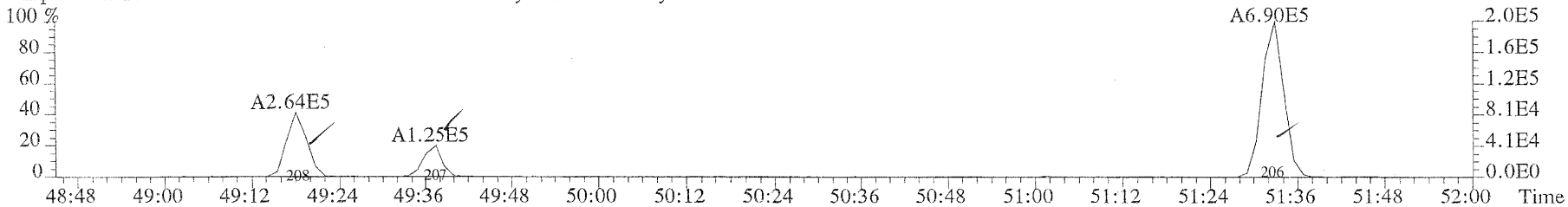
File:05JAN17Z #1-306 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



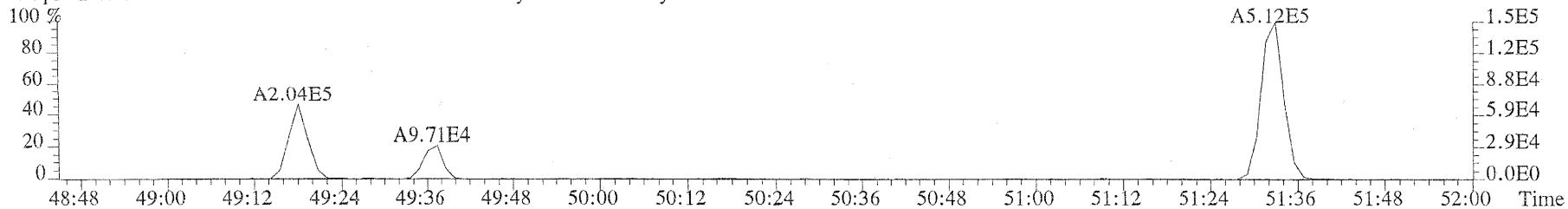
File:05JAN17Z #1-306 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



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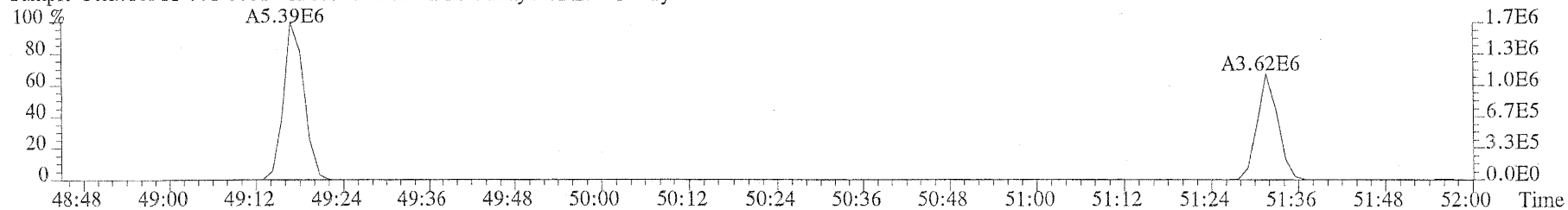
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



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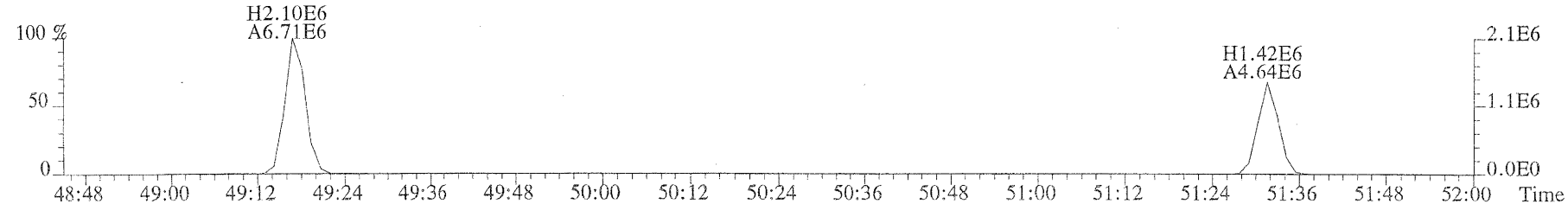
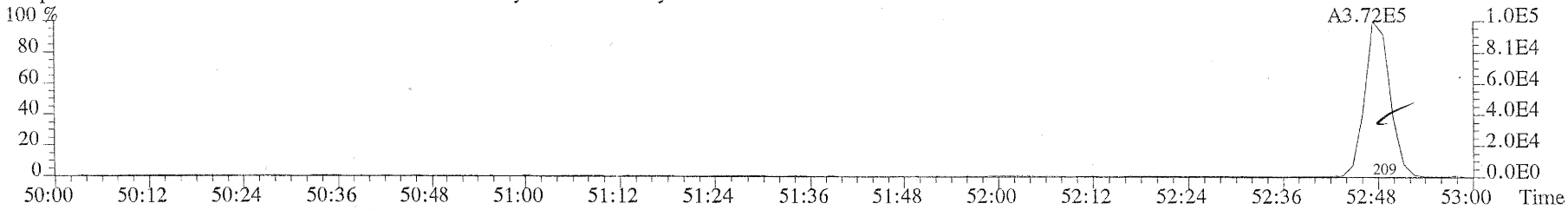
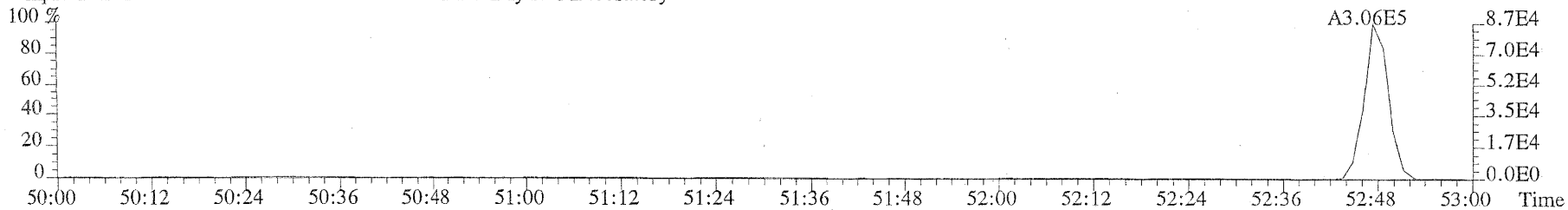
475.7619 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



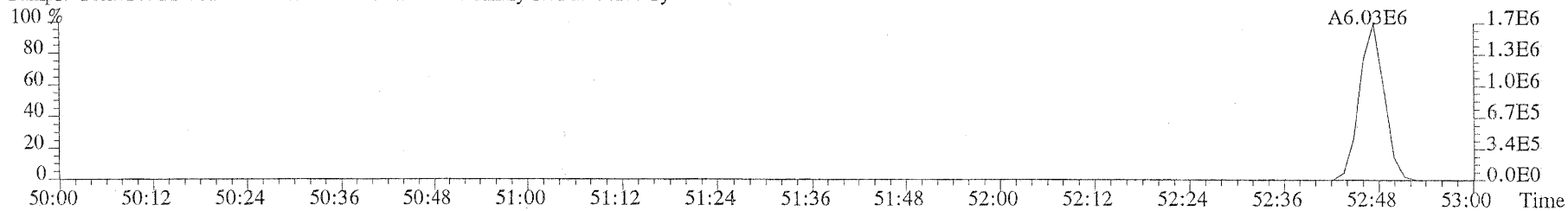
File:05JAN17Z #1-306 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



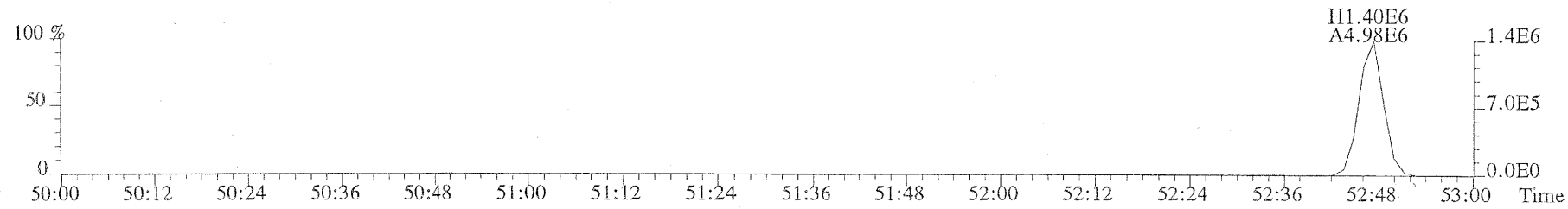
File:05JAN17Z #1-306 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 21:02:46 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-001-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10311-002-0001-SA Filename: 05JAN17Z Sam:13 Acquired: 5-JAN-17 22:01:06 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR+AC-CB-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.040

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.01e+06	3.01 y	14:33	0.92	65.7		-	-	*	
13C-PCB-1	3.34e+07	3.14 y	14:32	1.09	1800					90.8
PCB-2	1.10e+05	3.08 y	16:47	0.87	7.22		-	-	*	
PCB-3	6.32e+05	2.94 y	17:00	0.92	38.2		-	-	*	
13C-PCB-3	3.58e+07	3.20 y	16:59	1.14	1860					93.5
PCB-4	3.82e+06	1.51 y	18:15	1.17	322		-	-	*	
PCB-10	6.31e+05	1.41 y	18:17	0.99	49.1		-	-	*	
13C-PCB-4	2.01e+07	1.57 y	18:13	0.62	1910					96.2
PCB-9	1.23e+06	1.51 y	19:57	1.11	84.5		-	-	*	
PCB-7	1.26e+06	1.67 y	19:59	1.13	85.7		-	-	*	
PCB-6	6.87e+06	1.51 y	20:34	1.11	474		-	-	*	
PCB-8	2.51e+07	1.54 y	20:56	1.12	1710		-	-	*	
PCB-5	1.30e+06	1.63 y	21:00	1.08	92.0		-	-	*	
PCB-14	*	* n	NotFnd	1.11	*		990	1050	1.32	
PCB-11	4.04e+05	1.51 y	23:09	1.08	28.7		-	-	*	
PCB-13	1.13e+06	1.50 y	23:29	1.09	79.5		-	-	*	
PCB-12	1.20e+06	1.39 y	23:30	1.06	87.1		-	-	*	
PCB-15	1.43e+07	1.52 y	23:49	1.00	897		-	-	*	
13C-PCB-15	3.17e+07	1.61 y	23:47	1.03	1810					91.4
PCB-19	2.43e+06	1.02 y	22:09	0.95	275		-	-	*	
PCB-30	*	* n	NotFnd	1.39	*		840	788	1.26	
PCB-18	3.74e+07	1.04 y	23:42	0.97	4180		-	-	*	
PCB-17	1.83e+07	1.05 y	23:53	1.04	1900		-	-	*	
PCB-27	2.27e+06	1.00 y	24:24	1.37	179		-	-	*	
PCB-24	1.72e+06	1.09 y	24:25	1.37	136		-	-	*	
PCB-16	1.22e+07	1.03 y	24:53	1.12	1180		-	-	*	
PCB-32	1.52e+07	1.08 y	24:54	1.25	1320		-	-	*	
13C-PCB-19	1.84e+07	1.09 y	22:07	0.65	1670					84.0
13C-PCB-9	3.36e+07	1.62 y	19:55	-	7.29					
PCB-34	5.59e+05	1.09 y	25:40	0.86	75.2		-	-	*	
PCB-23	9.61e+04	1.12 y	25:45	0.99	11.2		-	-	*	
PCB-29	5.81e+05	1.17 y	26:01	1.01	66.8		-	-	*	
PCB-26	1.46e+07	1.07 y	26:12	0.98	1730		-	-	*	
PCB-25	8.09e+06	1.01 y	26:21	1.19	789		-	-	*	
PCB-31	6.81e+07	1.05 y	26:41	1.04	7580		-	-	*	
PCB-28	8.50e+07	1.06 y	26:47	1.10	8950		-	-	*	
PCB-20	4.18e+07	1.06 y	27:23	1.04	4660		-	-	*	Co-elute PCB 21/33
PCB-21	4.18e+07	1.06 y	27:23	1.04	4660		-	-	*	Co-elute PCB 20/33
PCB-33	4.18e+07	1.06 y	27:23	1.04	4660		-	-	*	Co-elute PCB 20/21
PCB-22	2.55e+07	1.05 y	27:47	1.03	2860		-	-	*	
PCB-36	*	* n	NotFnd	0.99	*		450	441	1.70	
PCB-39	9.01e+04	1.14 y	28:50	0.99	10.6		-	-	*	
PCB-38	2.02e+05	0.99 y	29:34	1.00	23.3		-	-	*	
PCB-35	9.39e+05	1.10 y	30:07	0.94	116		-	-	*	
PCB-37	1.47e+07	1.05 y	30:35	1.06	1600		-	-	*	
13C-PCB-37	1.71e+07	1.10 y	30:34	1.18	1780					89.6

FAL ID: 10311-002-0001-SA Filename: 05JAN17Z Sam:13 Acquired: 5-JAN-17 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR+AC-CB-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.040

PCB-54	1.23e+05	0.71	y	25:42	0.99	11.8	-	-	*		
PCB-50	1.47e+05	0.74	y	26:49	0.77	18.2	-	-	*		
PCB-53	5.77e+06	0.77	y	27:24	0.77	716	-	-	*		
PCB-51	1.92e+06	0.79	y	27:44	0.78	233	-	-	*		
PCB-45	5.00e+06	0.78	y	28:08	0.68	698	-	-	*		
PCB-46	1.77e+06	0.73	y	28:36	0.64	262	-	-	*		
PCB-52	5.67e+07	0.78	y	29:04	1.01	5340	-	-	*	Co-elute PCB 69	
PCB-69	5.67e+07	0.78	y	29:04	1.01	5340	-	-	*	Co-elute PCB 52	
PCB-73	*	*	n	NotFnd	0.89	*	501	548	1.19		
PCB-43	3.15e+07	0.78	y	29:22	0.76	3950	-	-	*	Co-elute PCB 49	
PCB-49	3.15e+07	0.78	y	29:22	0.76	3950	-	-	*	Co-elute PCB 43	
PCB-47	1.01e+07	0.83	y	29:34	0.95	1010	-	-	*		
PCB-48	8.86e+06	0.73	y	29:41	0.96	877	-	-	*	Co-elute PCB 75	
PCB-75	8.86e+06	0.73	y	29:41	0.96	877	-	-	*	Co-elute PCB 48	
PCB-65	*	*	n	NotFnd	1.00	*	501	548	1.07		
PCB-62	*	*	n	NotFnd	0.93	*	501	548	1.15		
PCB-44	2.44e+07	0.79	y	30:22	0.69	3350	-	-	*		
PCB-42	9.97e+06	0.79	y	30:38	0.94	1010	-	-	*	Co-elute PCB 59	
PCB-59	9.97e+06	0.79	y	30:38	0.94	1010	-	-	*	Co-elute PCB 42	
PCB-72	2.60e+07	0.79	y	31:15	1.02	2420	-	-	*	Co-elute PCB 41/71/64	
PCB-41	2.60e+07	0.79	y	31:15	1.02	2420	-	-	*	Co-elute PCB 72/71/64	
PCB-71	2.60e+07	0.79	y	31:15	1.02	2420	-	-	*	Co-elute PCB 72/41/64	
PCB-64	2.60e+07	0.79	y	31:15	1.02	2420	-	-	*	Co-elute PCB 72/41/71	
PCB-68	7.39e+04	0.88	y	31:33	1.10	6.41	-	-	*		
PCB-40	3.39e+06	0.79	y	31:42	0.59	547	-	-	*		
PCB-57	2.60e+05	0.76	y	31:58	1.04	23.9	-	-	*		
PCB-67	2.41e+06	0.78	y	32:15	0.98	234	-	-	*		
PCB-58	2.37e+05	0.80	y	32:19	1.11	20.4	-	-	*		
PCB-63	2.91e+06	0.79	y	32:29	1.03	270	-	-	*		
PCB-74	3.61e+07	0.78	y	32:45	1.07	3210	-	-	*		
PCB-61	8.47e+07	0.78	y	32:57	1.12	7210	-	-	*	Co-elute PCB 70	
PCB-70	8.47e+07	0.78	y	32:57	1.12	7210	-	-	*	Co-elute PCB 61	
PCB-76	6.71e+07	0.77	y	33:08	1.07	6000	-	-	*	Co-elute PCB 66	
PCB-66	6.71e+07	0.77	y	33:08	1.07	6000	-	-	*	Co-elute PCB 76	
PCB-80	*	*	n	NotFnd	1.19	*	501	548	0.901		
PCB-55	1.35e+06	0.79	y	33:37	1.06	121	-	-	*		
13C-PCB-54	2.08e+07	0.81	y	25:40	1.05	2420				122	
PCB-104	*	*	n	NotFnd	1.04	*	301	249	1.60		
PCB-96	2.96e+05	1.66	y	31:32	0.98	60.4	-	-	*		
PCB-103	4.05e+05	1.49	y	31:57	0.83	96.9	-	-	*		
PCB-100	2.29e+05	1.48	y	32:16	0.82	55.6	-	-	*		
PCB-94	2.69e+05	1.72	y	32:41	0.68	78.6	-	-	*		
PCB-98	*	*	n	NotFnd	0.87	*	301	249	1.92	Co-elute PCB 102	
PCB-102	*	*	n	NotFnd	0.87	*	301	249	1.92	Co-elute PCB 98	
PCB-95	5.32e+07	1.62	y	33:12	0.71	15000	-	-	*		
PCB-93	*	*	n	NotFnd	0.67	*	301	249	2.49		
PCB-88	8.64e+06	1.59	y	33:34	0.77	2230	-	-	*	Co-elute PCB 91	
PCB-91	8.64e+06	1.59	y	33:34	0.77	2230	-	-	*	Co-elute PCB 88	
PCB-121	*	*	n	NotFnd	0.96	*	301	249	1.75		
13C-PCB-104	9.95e+06	1.58	y	30:11	0.92	1320				66.6	
13C-PCB-28	2.62e+07	1.05	y	26:46	1.30	2470				124	
13C-PCB-52	1.62e+07	0.80	y	29:03	-	4.94					

PCB-56	4.23e+07	0.78	y	34:06	1.01	3740	-	-	*	Co-elute PCB 60
PCB-60	4.23e+07	0.78	y	34:06	1.01	3740	-	-	*	Co-elute PCB 56
PCB-79	9.73e+05	0.76	y	35:07	1.04	83.8	-	-	*	
PCB-78	2.51e+05	0.69	y	35:41	0.99	22.7	-	-	*	
PCB-81	1.74e+06	0.76	y	36:17	1.06	148	-	-	*	
13C-PCB-81	2.19e+07	0.79	y	36:15	1.07	2040				103
PCB-77	5.43e+06	0.80	y	36:50	0.98	490	-	-	*	
13C-PCB-77	2.25e+07	0.79	y	36:49	1.08	2070				104
PCB-155	*	*	n	NotFnd	0.98	*	501	444	1.11	
PCB-150	1.15e+05	1.28	y	35:33	0.89	12.9	-	-	*	
PCB-152	7.95e+04	1.35	y	35:57	0.87	9.12	-	-	*	
PCB-145	3.61e+04	1.21	y	36:25	0.85	4.21	-	-	*	
PCB-136	1.11e+07	1.29	y	36:41	0.87	1270	-	-	*	
PCB-148	*	*	n	NotFnd	0.64	*	501	444	1.70	
PCB-154	7.29e+05	1.27	y	37:17	0.77	94.4	-	-	*	
13C-PCB-155	1.99e+07	1.29	y	34:20	1.11	1780				89.6
13C-PCB-111	2.13e+07	1.57	y	36:25	1.14	1860				93.5
13C-PCB-101	2.00e+07	1.58	y	34:46	-	6.48				
PCB-84	2.89e+07	1.58	y	34:25	0.79	3750	-	-	*	Co-elute PCB 92
PCB-92	2.89e+07	1.58	y	34:25	0.79	3750	-	-	*	Co-elute PCB 84
PCB-89	7.58e+05	1.44	y	34:35	0.76	102	-	-	*	
PCB-90	8.37e+07	1.55	y	34:48	0.87	9880	-	-	*	Co-elute PCB 101
PCB-101	8.37e+07	1.55	y	34:48	0.87	9880	-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.99	*	515	447	1.20	
PCB-99	3.41e+07	1.54	y	35:07	0.97	3610	-	-	*	
PCB-119	1.89e+06	1.52	y	35:32	1.13	171	-	-	*	
PCB-83	3.62e+06	1.53	y	35:41	0.87	423	-	-	*	Co-elute PCB 112
PCB-112	3.62e+06	1.53	y	35:41	0.87	423	-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.05	*	515	447	1.13	
PCB-97	2.17e+07	1.56	y	36:01	0.95	2330	-	-	*	
PCB-86	*	*	n	NotFnd	0.76	*	515	447	1.55	
PCB-125	3.34e+07	1.55	y	36:17	1.00	3420	-	-	*	Co-elute PCB 87/117
PCB-87	3.34e+07	1.55	y	36:17	1.00	3420	-	-	*	Co-elute PCB 125/117
PCB-117	3.34e+07	1.55	y	36:17	1.00	3420	-	-	*	Co-elute PCB 125/87
PCB-111	1.84e+06	1.51	y	36:27	1.21	156	-	-	*	Co-elute PCB 115
PCB-115	1.84e+06	1.51	y	36:27	1.21	156	-	-	*	Co-elute PCB 111
PCB-85	1.22e+07	1.55	y	36:31	0.95	1310	-	-	*	Co-elute PCB 116
PCB-116	1.22e+07	1.55	y	36:31	0.95	1310	-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.17	*	515	447	1.01	
PCB-110	9.82e+07	1.57	y	36:54	1.15	8700	-	-	*	
PCB-82	6.92e+06	1.54	y	37:29	0.66	1080	-	-	*	
PCB-124	3.22e+06	1.58	y	38:10	0.92	359	-	-	*	
PCB-108	5.18e+06	1.58	y	38:19	1.02	518	-	-	*	Co-elute PCB 107
PCB-107	5.18e+06	1.58	y	38:19	1.02	518	-	-	*	Co-elute PCB 108
PCB-123	1.27e+06	1.62	y	38:28	1.10	119	-	-	*	
13C-PCB-123	1.92e+07	1.60	y	38:26	1.05	2120				107
PCB-118	7.52e+07	1.56	y	38:39	0.92	8170	-	-	*	Co-elute PCB 106
PCB-106	7.52e+07	1.56	y	38:39	0.92	8170	-	-	*	Co-elute PCB 118
13C-PCB-118	1.98e+07	1.60	y	38:38	1.10	2090				105
PCB-114	1.73e+06	1.51	y	39:15	0.95	187	-	-	*	
13C-PCB-114	1.93e+07	1.60	y	39:14	1.05	2130				107
PCB-122	9.09e+05	1.66	y	39:22	1.02	91.2	-	-	*	
PCB-105	2.91e+07	1.55	y	40:05	0.99	3000	-	-	*	
13C-PCB-105	1.94e+07	1.61	y	40:03	1.06	2110				107

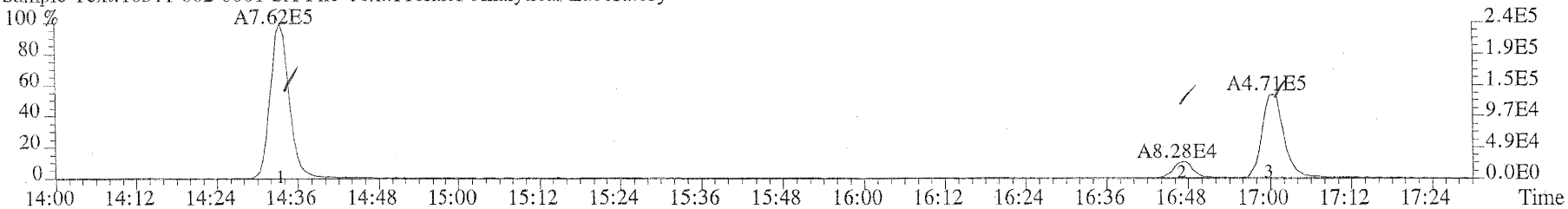
PCB-127	*	*	n	NotFnd	0.92	*	595	445	1.39		
PCB-126	2.45e+05	1.59	y	42:12	1.00	26.2	-	-	*		
13C-PCB-126	1.84e+07	1.59	y	42:12	1.00	2130				108	
PCB-151	1.20e+07	1.29	y	37:53	0.67	1900	-	-	*		
PCB-135	7.25e+06	1.26	y	38:05	0.72	1080	-	-	*		
PCB-144	2.95e+06	1.28	y	38:11	0.67	468	-	-	*		
PCB-147	1.23e+06	1.28	y	38:19	0.76	173	-	-	*		
PCB-139	5.04e+07	1.26	y	38:34	0.76	7120	-	-	*	Co-elute PCB 149	
PCB-149	5.04e+07	1.26	y	38:34	0.76	7120	-	-	*	Co-elute PCB 139	
PCB-140	3.25e+05	1.37	y	38:46	0.73	47.4	-	-	*		
PCB-143	3.25e+06	1.27	y	39:10	0.69	503	-	-	*	Co-elute PCB 134	
PCB-134	3.25e+06	1.27	y	39:10	0.69	503	-	-	*	Co-elute PCB 143	
PCB-131	1.80e+06	1.23	y	39:27	0.71	273	-	-	*	Co-elute PCB 133	
PCB-133	1.80e+06	1.23	y	39:27	0.71	273	-	-	*	Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.62	*	585	555	2.32		
PCB-165	9.42e+06	1.27	y	39:48	0.85	1180	-	-	*	Co-elute PCB 146	
PCB-146	9.42e+06	1.27	y	39:48	0.85	1180	-	-	*	Co-elute PCB 165	
PCB-161	2.00e+07	1.25	y	40:03	0.79	2710	-	-	*	Co-elute PCB 132	
PCB-132	2.00e+07	1.25	y	40:03	0.79	2710	-	-	*	Co-elute PCB 161	
PCB-153	6.59e+07	1.25	y	40:11	0.84	8390	-	-	*		
PCB-168	*	*	n	NotFnd	0.91	*	585	555	1.58		
PCB-141	1.17e+07	1.25	y	40:54	0.74	1690	-	-	*		
PCB-137	3.56e+06	1.25	y	41:16	0.65	585	-	-	*		
PCB-130	3.48e+06	1.26	y	41:21	0.69	542	-	-	*		
PCB-138	7.74e+07	1.26	y	41:42	0.95	8700	-	-	*	Co-elute PCB 163/164	
PCB-163	7.74e+07	1.26	y	41:42	0.95	8700	-	-	*	Co-elute PCB 138/164	
PCB-164	7.74e+07	1.26	y	41:42	0.95	8700	-	-	*	Co-elute PCB 138/163	
PCB-158	9.46e+06	1.29	y	41:57	0.94	1080	-	-	*	Co-elute PCB 160	
PCB-160	9.46e+06	1.29	y	41:57	0.94	1080	-	-	*	Co-elute PCB 158	
PCB-129	2.91e+06	1.29	y	42:10	0.59	530	-	-	*		
PCB-166	3.31e+05	1.23	y	42:38	0.90	39.2	-	-	*		
PCB-159	4.82e+05	1.29	y	42:58	0.96	53.4	-	-	*		
PCB-128	1.16e+07	1.25	y	43:11	0.81	1530	-	-	*	Co-elute PCB 162	
PCB-162	1.16e+07	1.25	y	43:11	0.81	1530	-	-	*	Co-elute PCB 128	
PCB-167	3.08e+06	1.28	y	43:34	0.88	357	-	-	*		
13C-PCB-167	1.95e+07	1.25	y	43:34	1.16	1950				98.4	
PCB-156	8.91e+06	1.24	y	44:48	0.92	1020	-	-	*		
13C-PCB-156	1.87e+07	1.27	y	44:46	1.11	1960				99.0	
PCB-157	1.79e+06	1.27	y	45:03	0.94	202	-	-	*		
13C-PCB-157	1.88e+07	1.25	y	45:03	1.14	1910				96.1	
PCB-169	*	*	n	NotFnd	0.89	*	585	555	1.50		
13C-PCB-169	1.73e+07	1.28	y	46:55	1.10	1830				92.4	

FAL ID: 10311-002-0001-SA Filename: 05JAN17Z Sam:13 Acquired: 5-JAN-17 22:01:06 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR+AC-CB-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.040

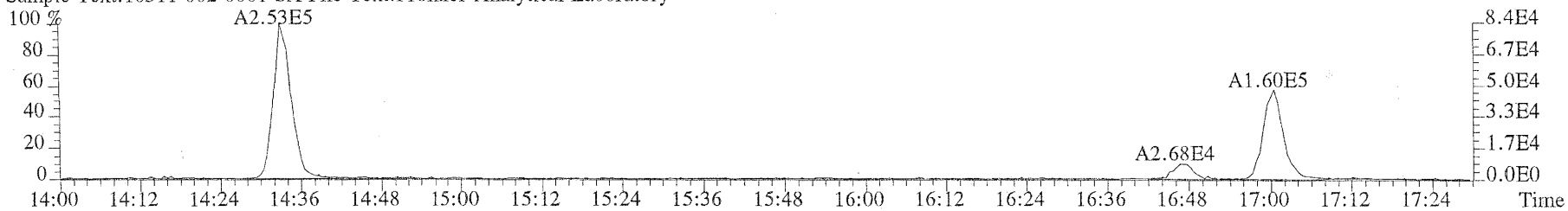
PCB-188	3.23e+04	1.12	y	39:48	1.04	3.24	J	-	-	*	
13C-PCB-188	1.90e+07	1.09	y	39:48	1.22	1810					91.4
PCB-184	*	*	n	NotFnd	1.08	*		505	477	1.09	
PCB-179	7.38e+06	1.07	y	40:59	1.03	852		-	-	*	
PCB-176	2.52e+06	1.07	y	41:25	1.01	295		-	-	*	
PCB-186	*	*	n	NotFnd	1.00	*		505	477	1.18	
PCB-178	2.58e+06	1.07	y	42:28	0.73	416		-	-	*	
PCB-175	5.75e+05	1.09	y	42:48	0.76	89.3		-	-	*	
PCB-187	1.64e+07	1.07	y	42:58	0.84	2310		-	-	*	Co-elute PCB 182
PCB-182	1.64e+07	1.07	y	42:58	0.84	2310		-	-	*	Co-elute PCB 187
PCB-183	8.48e+06	1.05	y	43:16	0.83	1210		-	-	*	
PCB-185	1.55e+06	1.09	y	43:54	0.77	239		-	-	*	
PCB-174	1.32e+07	1.06	y	44:13	0.76	2070		-	-	*	
PCB-181	*	*	n	NotFnd	0.77	*		505	477	1.53	
PCB-177	7.28e+06	1.05	y	44:30	0.69	1240		-	-	*	
PCB-171	3.69e+06	1.05	y	44:46	0.73	598		-	-	*	
PCB-173	2.96e+05	1.02	y	45:11	0.67	52.7		-	-	*	
PCB-172	2.13e+06	1.06	y	45:36	0.69	363		-	-	*	
PCB-192	*	*	n	NotFnd	0.91	*		505	477	1.30	
PCB-180	2.89e+07	1.07	y	45:57	0.92	3730		-	-	*	
PCB-193	1.80e+06	1.09	y	46:05	0.97	218		-	-	*	
PCB-191	6.88e+05	1.04	y	46:18	0.97	84.2		-	-	*	
PCB-170	1.12e+07	1.06	y	47:13	0.68	1930		-	-	*	
PCB-190	3.13e+06	1.05	y	47:23	0.93	397		-	-	*	
PCB-189	5.55e+05	1.02	y	48:37	0.99	77.1		-	-	*	
13C-PCB-189	1.44e+07	1.06	y	48:35	1.10	1520					76.8
PCB-202	1.16e+06	0.96	y	44:56	0.86	165		-	-	*	
PCB-201	8.97e+05	0.94	y	45:24	0.86	127		-	-	*	
PCB-204	*	*	n	NotFnd	0.87	*		511	494	1.52	
PCB-197	2.52e+05	0.99	y	45:49	0.88	35.0		-	-	*	
PCB-200	7.59e+05	0.92	y	46:33	0.88	105		-	-	*	
PCB-198	2.47e+05	0.89	y	47:44	0.65	46.3		-	-	*	
PCB-199	4.03e+06	0.91	y	47:49	0.60	824		-	-	*	
PCB-203	5.11e+06	0.90	y	48:05	0.68	923		-	-	*	Co-elute PCB 196
PCB-196	5.11e+06	0.90	y	48:05	0.68	923		-	-	*	Co-elute PCB 203
13C-PCB-202	1.62e+07	0.91	y	44:56	1.09	1730					87.1
13C-PCB-178	1.29e+07	1.07	y	42:28	0.89	1680					84.9
13C-PCB-138	1.71e+07	1.26	y	41:40	-	6.25					
PCB-195	1.88e+06	0.88	y	49:12	0.70	408		-	-	*	
PCB-194	4.28e+06	0.92	y	50:02	0.75	865		-	-	*	
PCB-205	2.85e+05	0.98	y	50:17	0.98	44.2		-	-	*	
13C-PCB-205	1.30e+07	0.90	y	50:17	1.24	1940					98.0
PCB-208	4.05e+05	1.34	y	49:18	0.90	67.5		-	-	*	
13C-PCB-208	1.32e+07	0.80	y	49:18	1.34	1830					92.5
PCB-207	2.34e+05	1.35	y	49:36	0.98	43.3		-	-	*	
PCB-206	1.20e+06	1.33	y	51:32	0.92	302		-	-	*	
13C-PCB-206	8.53e+06	0.79	y	51:30	0.96	1640					82.8
PCB-209	4.43e+05	1.11	y	52:47	0.97	83.3		-	-	*	
13C-PCB-209	1.08e+07	1.19	y	52:46	1.40	1440					72.7
13C-PCB-194	1.07e+07	0.90	y	50:00	-	5.29					

Analyst: _____ Date: 1/9/17

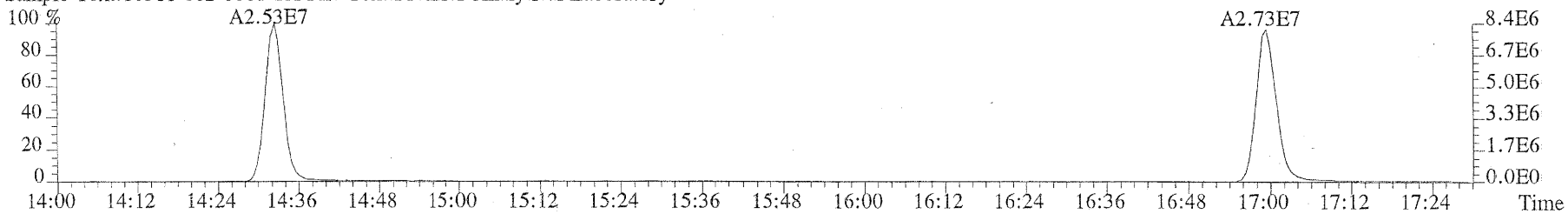
File:05JAN17Z #1-784 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



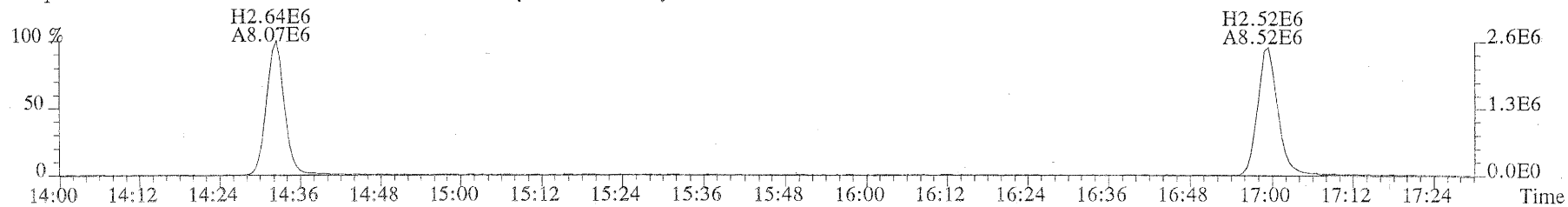
File:05JAN17Z #1-784 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



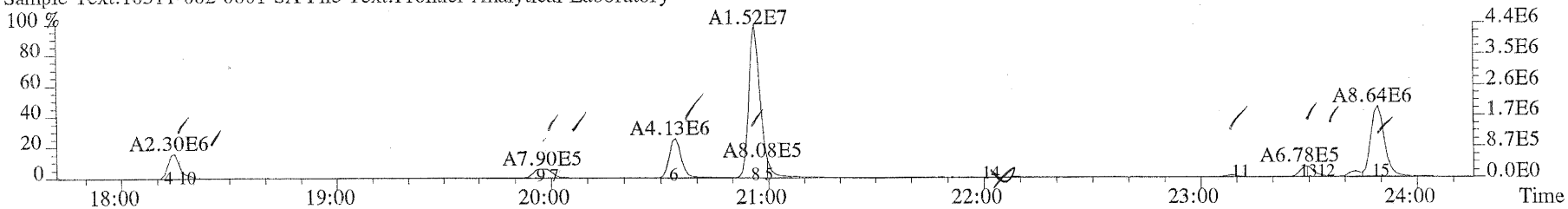
File:05JAN17Z #1-784 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



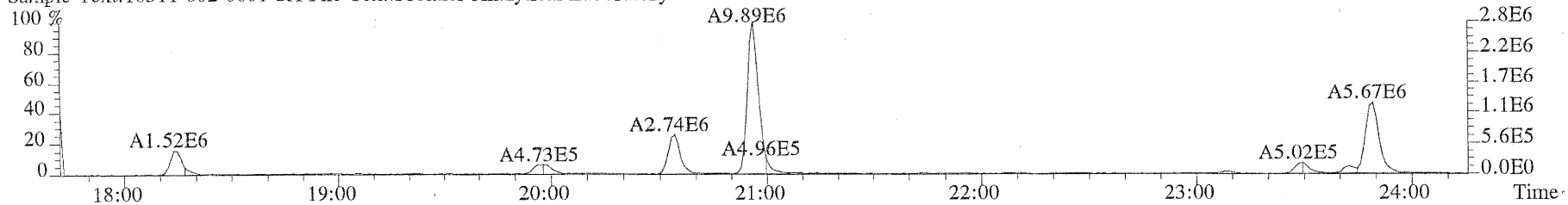
File:05JAN17Z #1-784 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



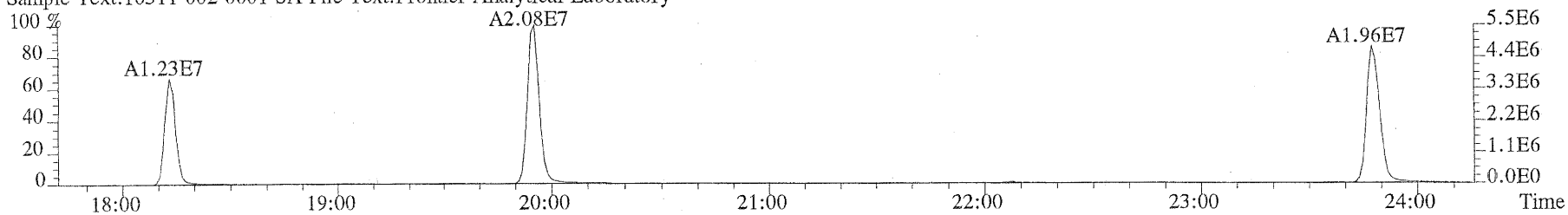
File:05JAN17Z #1-509 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



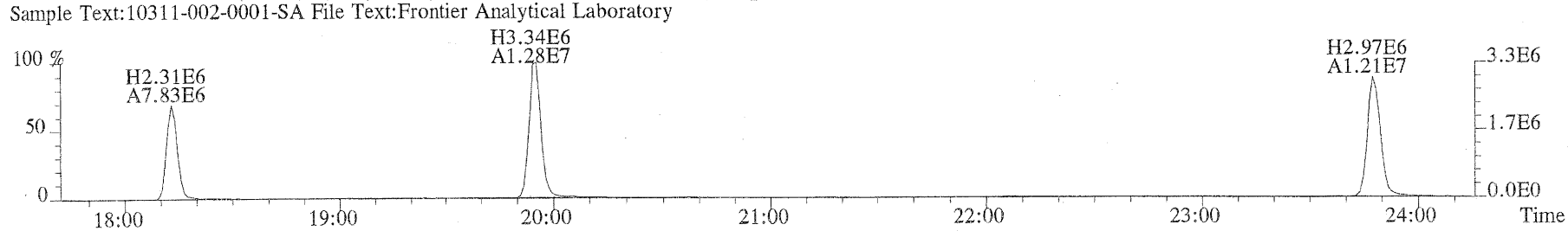
File:05JAN17Z #1-509 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



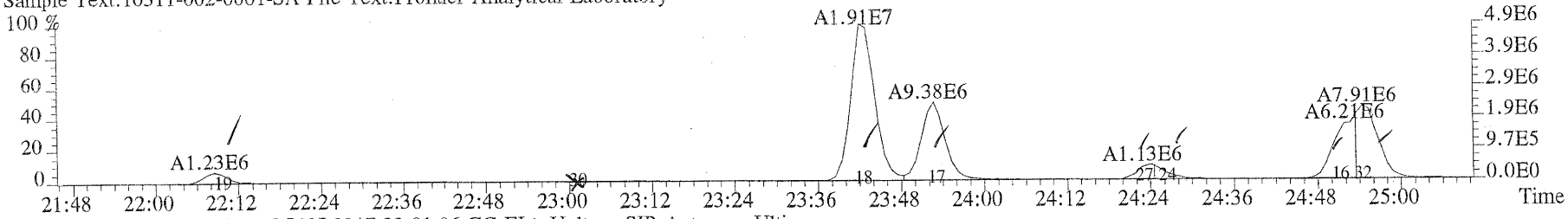
File:05JAN17Z #1-509 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



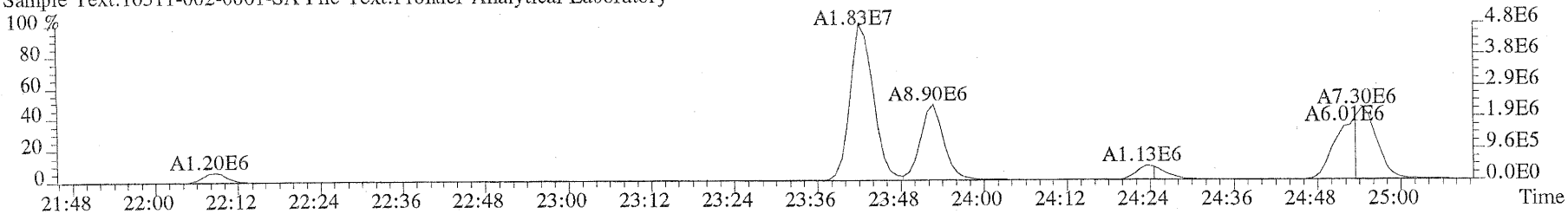
File:05JAN17Z #1-509 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



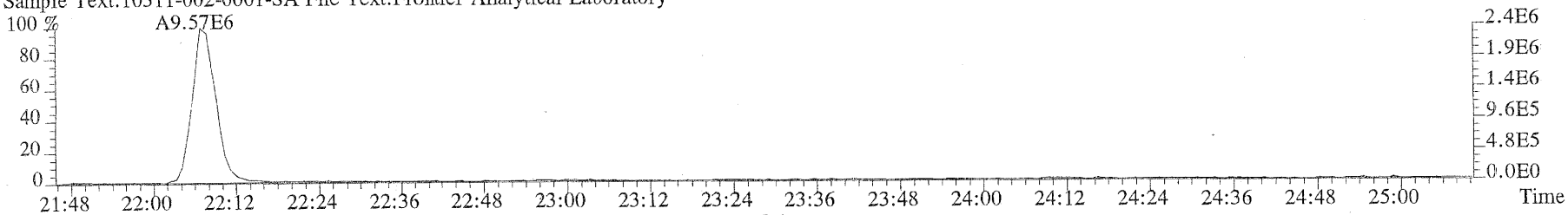
File:05JAN17Z #1-509 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



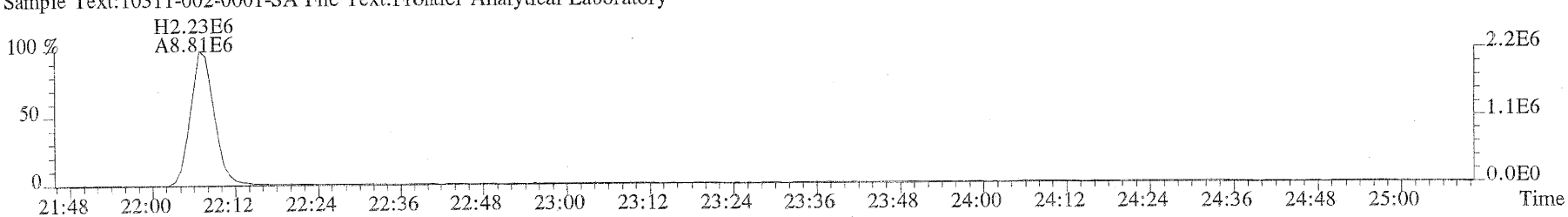
File:05JAN17Z #1-509 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



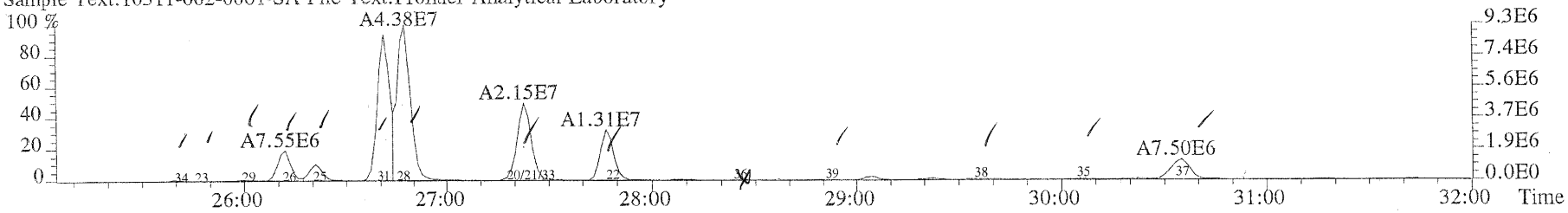
File:05JAN17Z #1-509 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



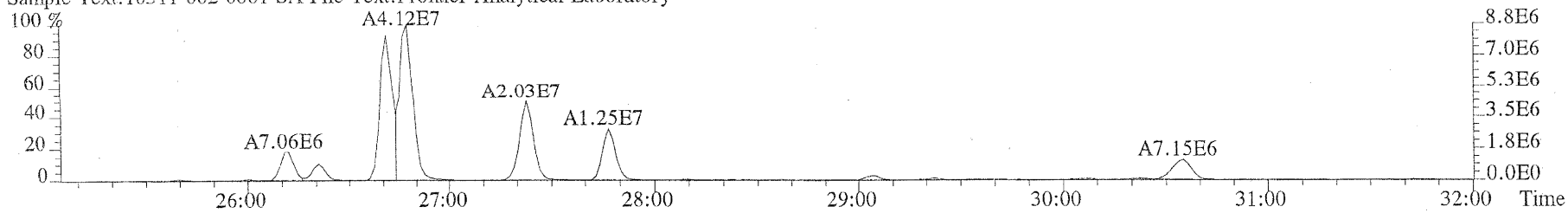
File:05JAN17Z #1-509 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



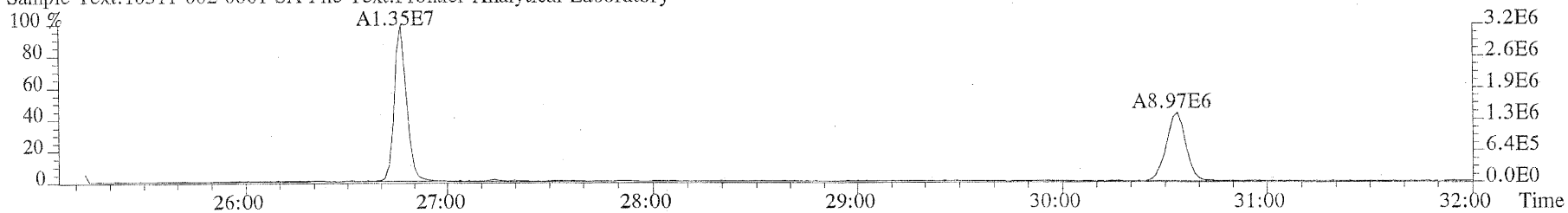
File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



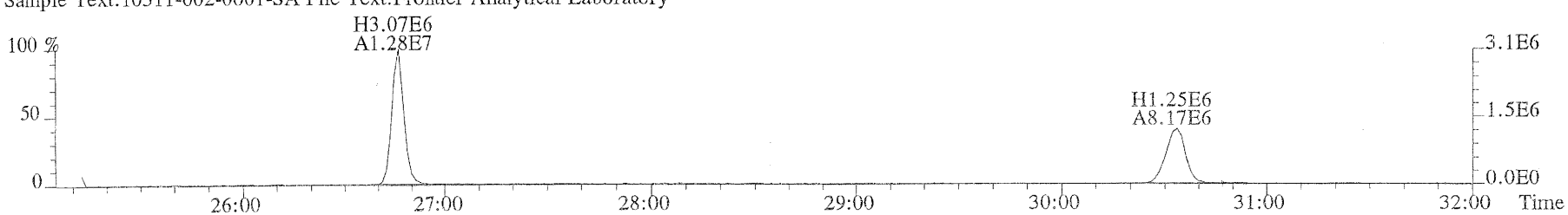
File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



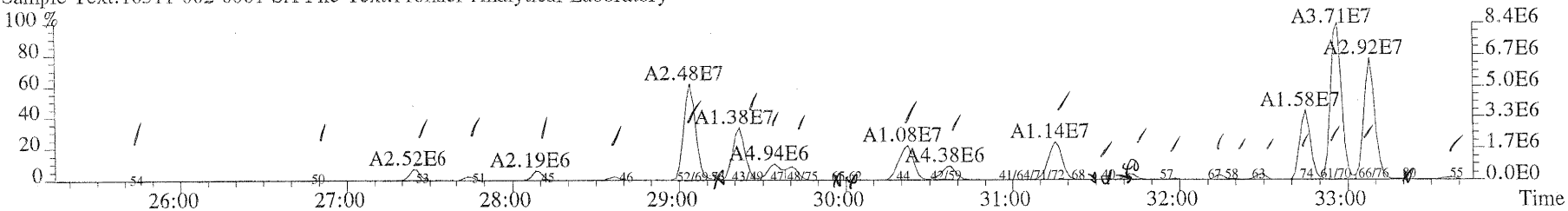
File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



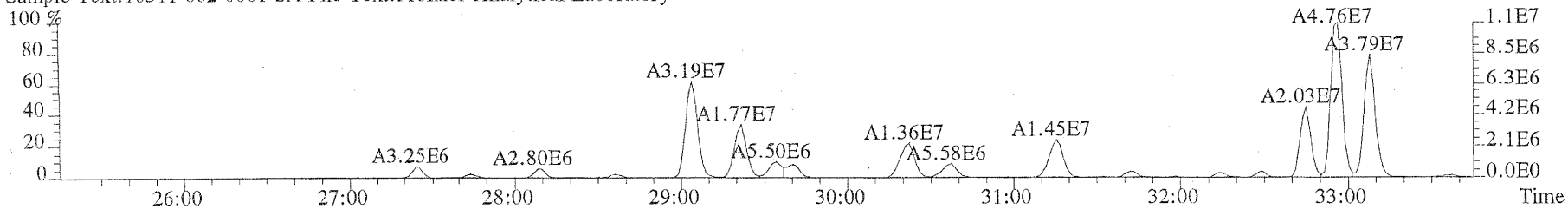
File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



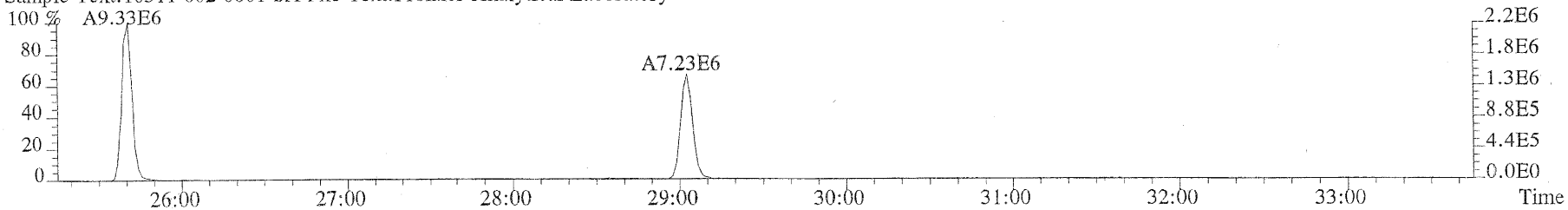
File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



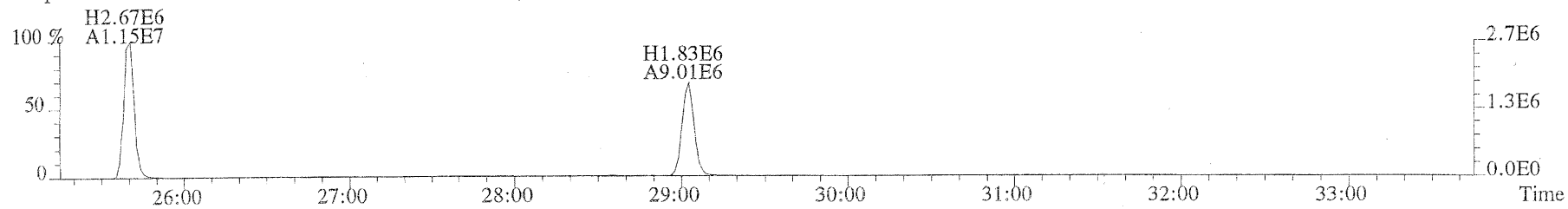
File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



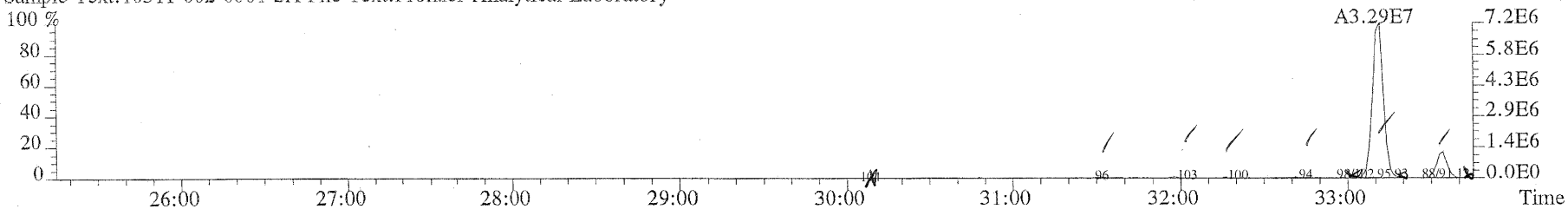
File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
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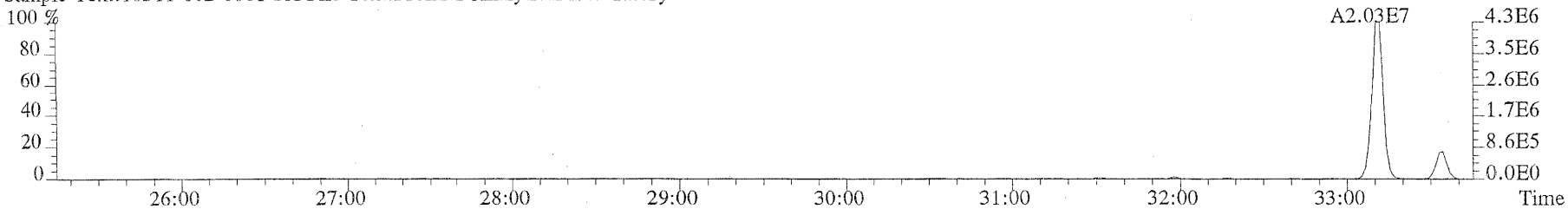
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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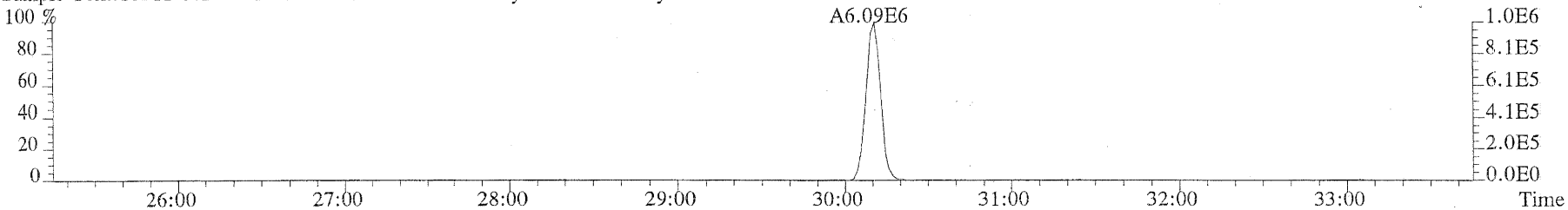
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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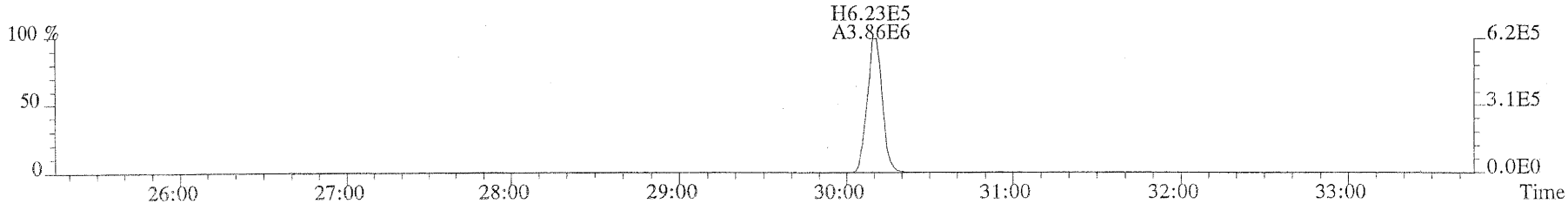
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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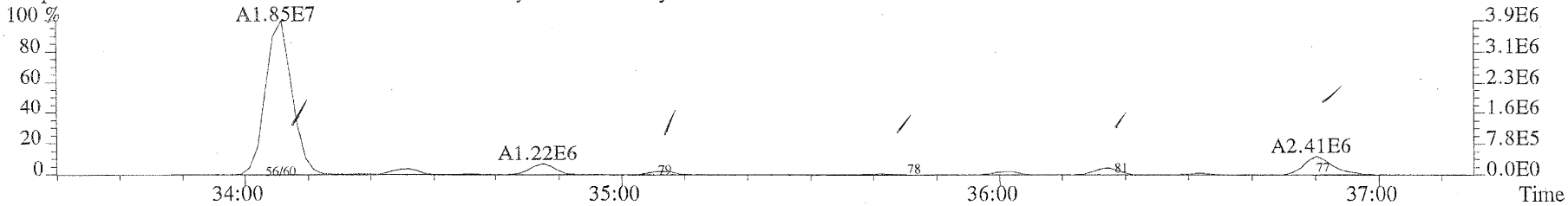

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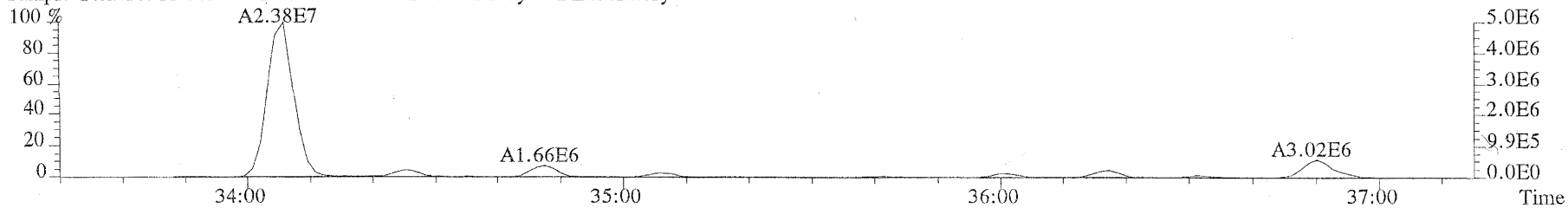
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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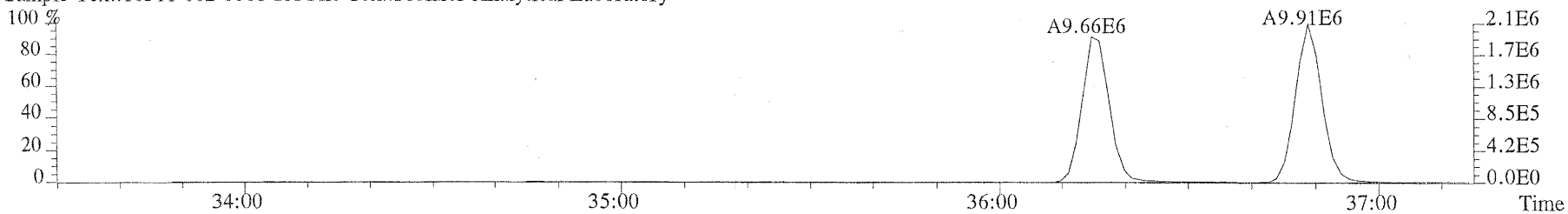
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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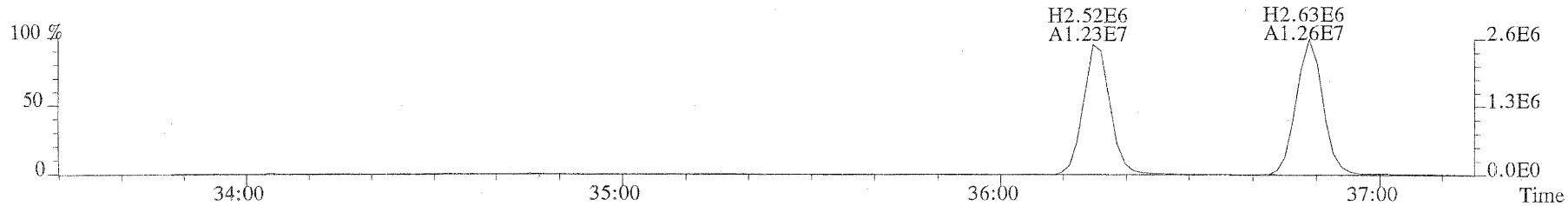
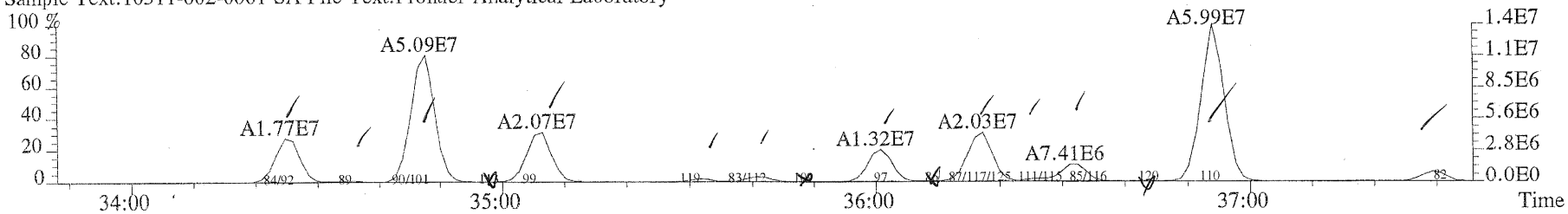
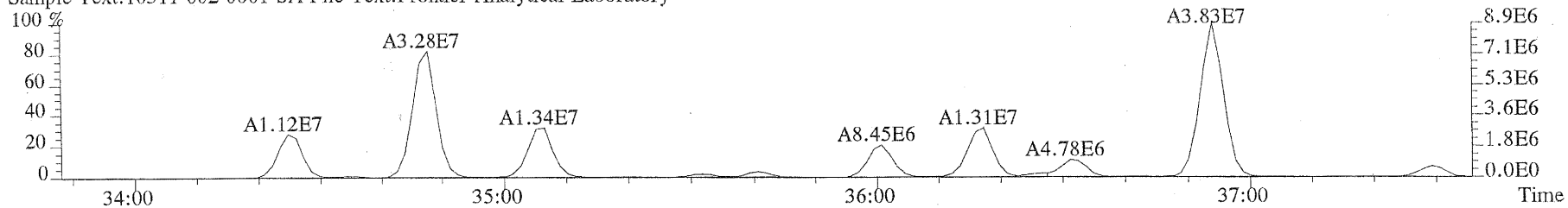
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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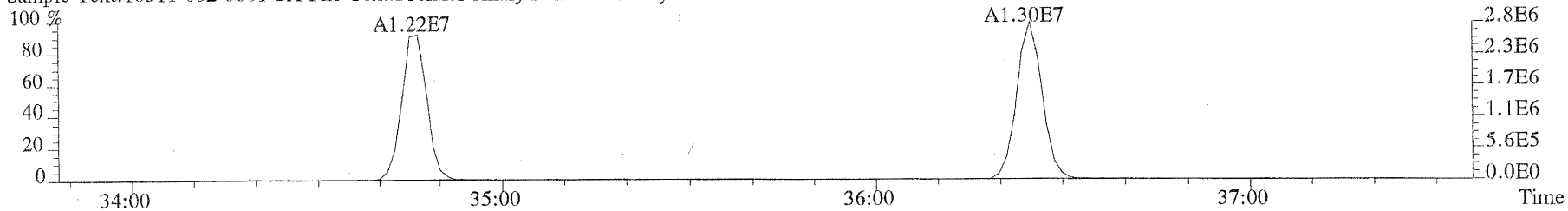
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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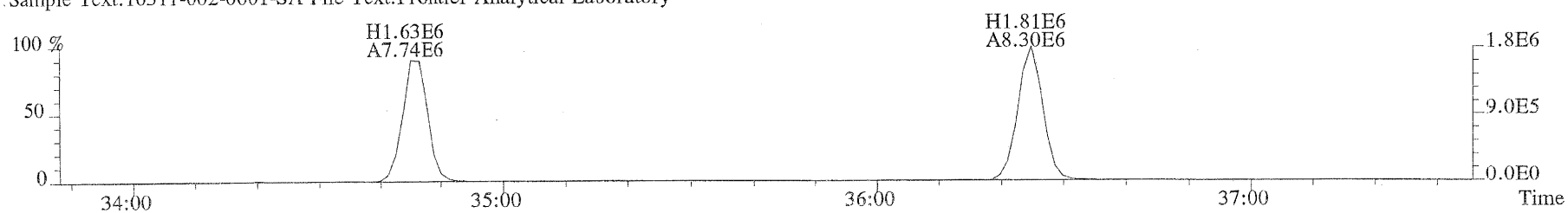
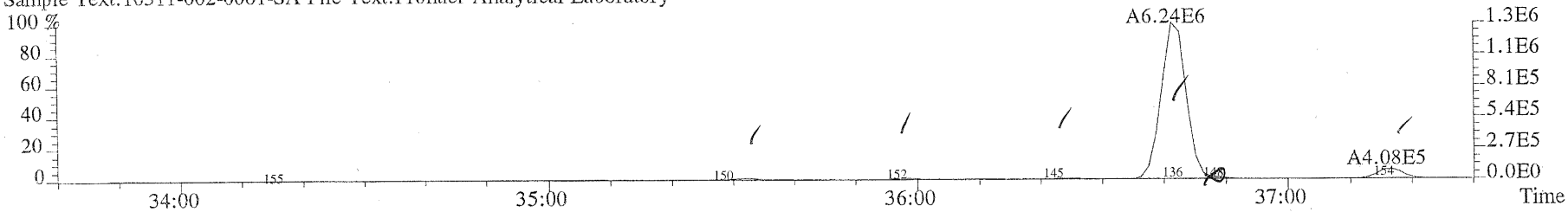
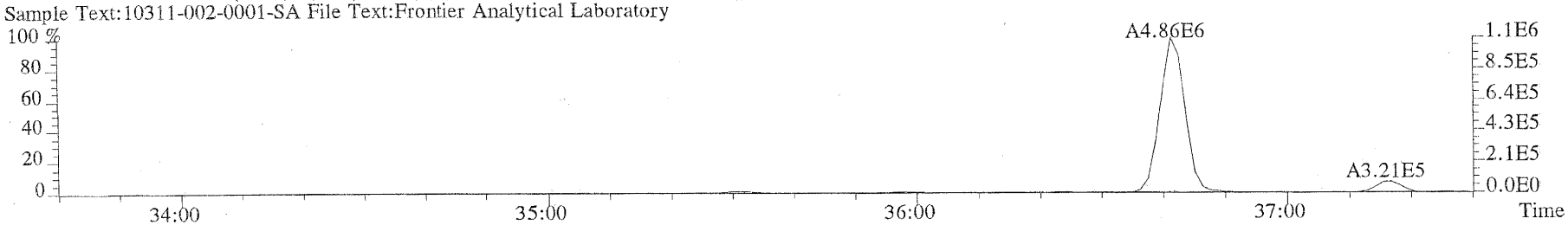
339.9178 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



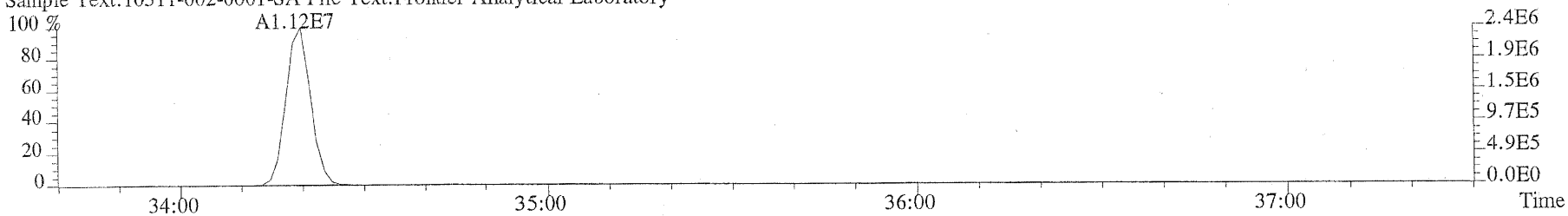
File:05JAN17Z #1-181 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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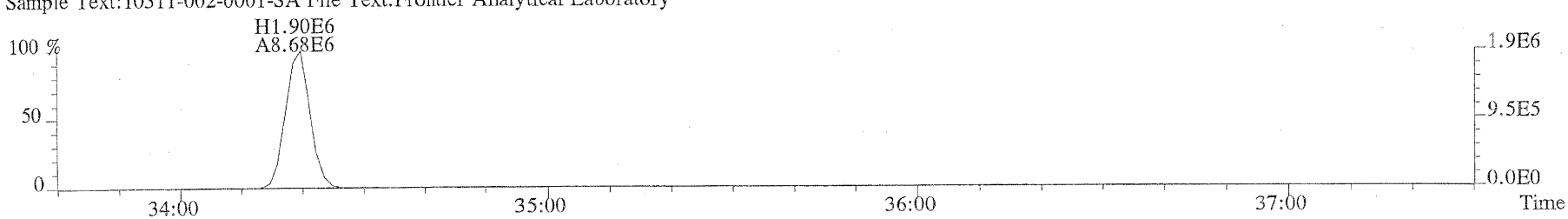
373.8788 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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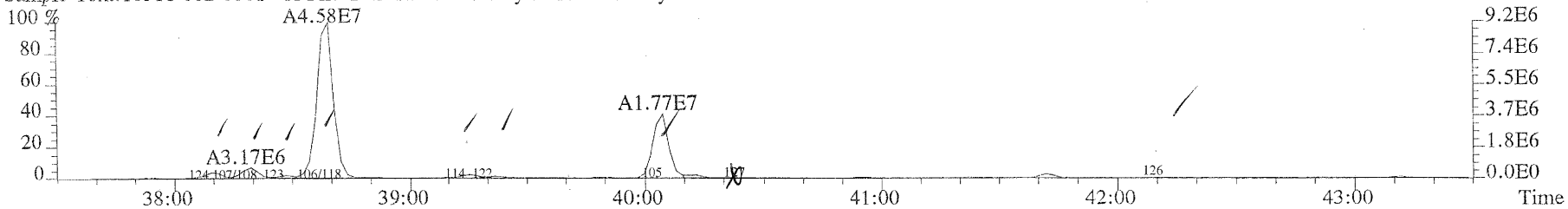
325.8804 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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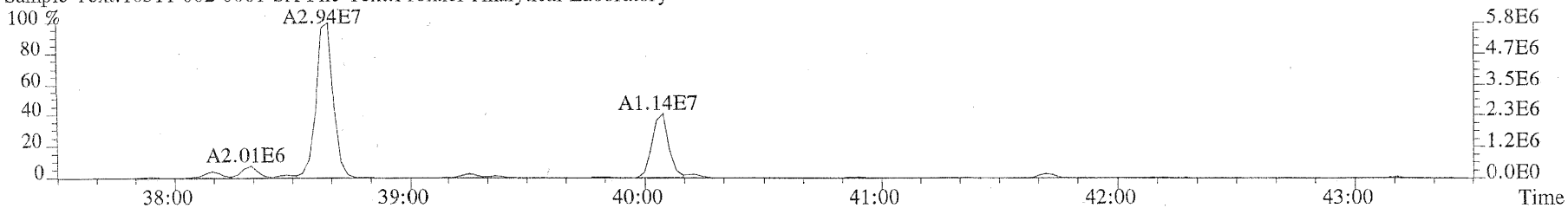
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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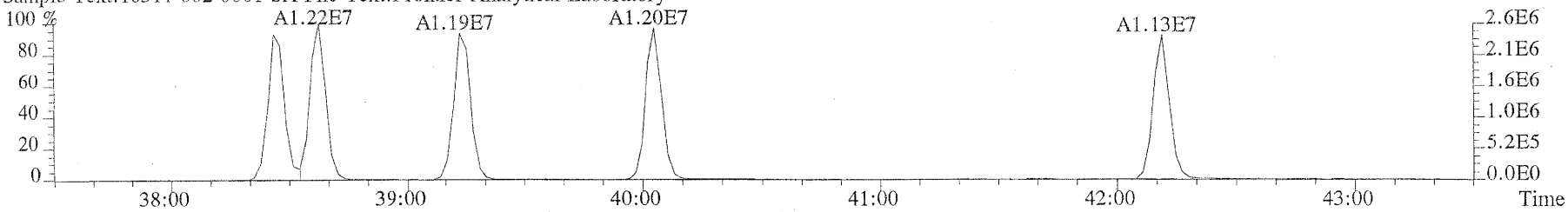

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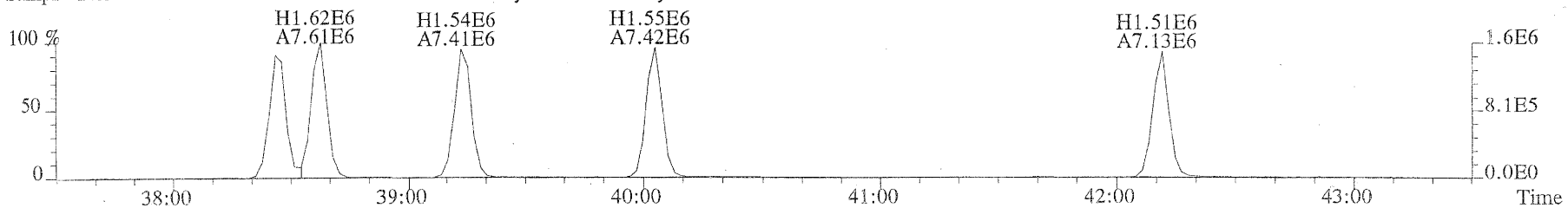
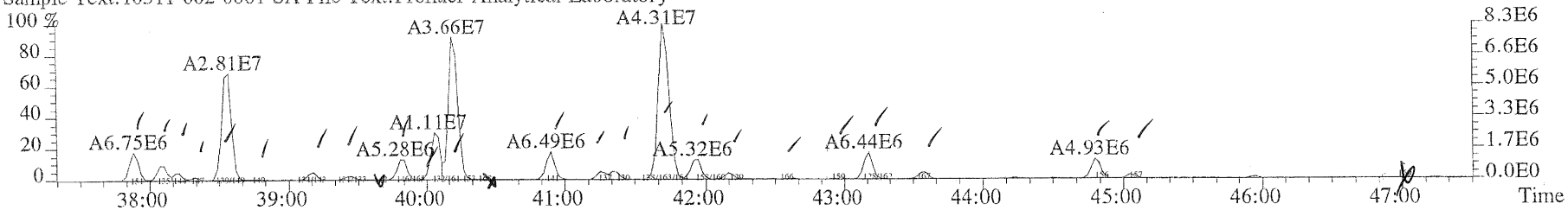


File:05JAN17Z #1-413 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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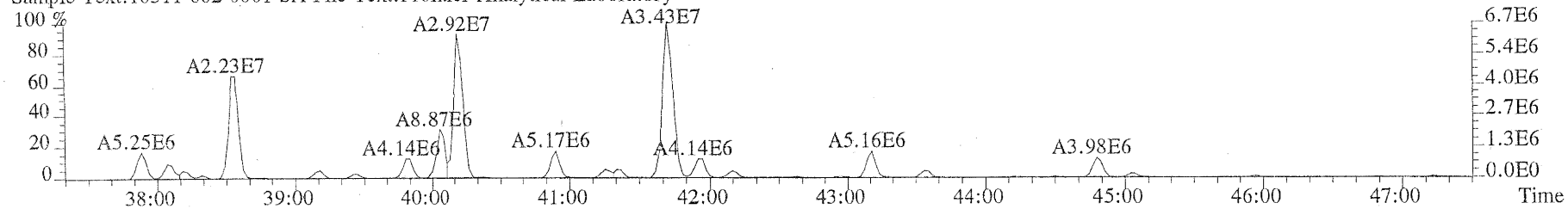
361.8385 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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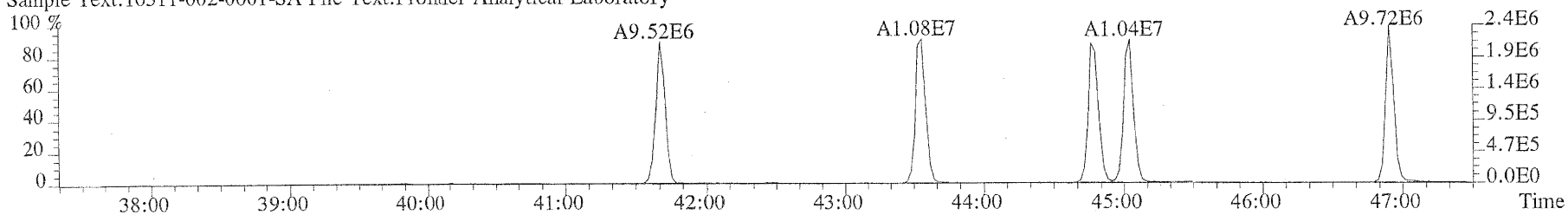
371.8817 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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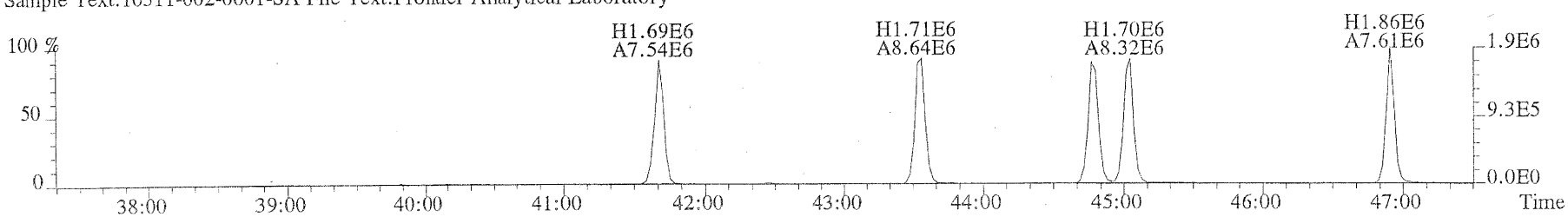
373.8788 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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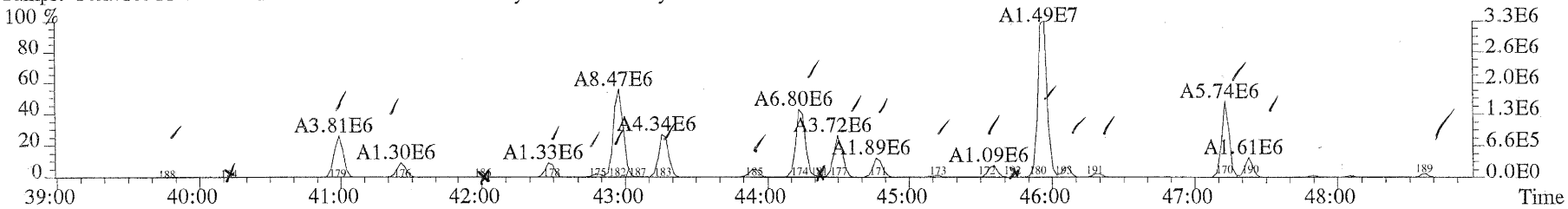
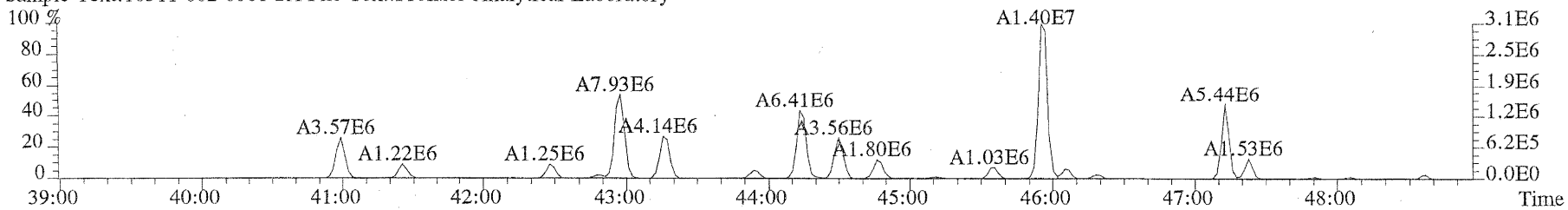
393.8025 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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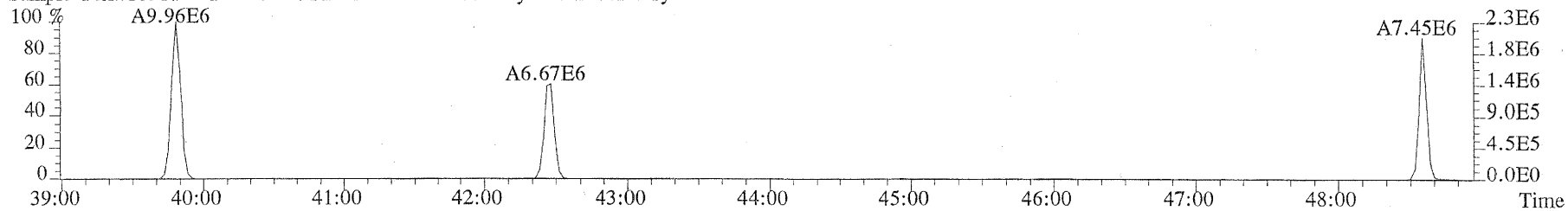
405.8428 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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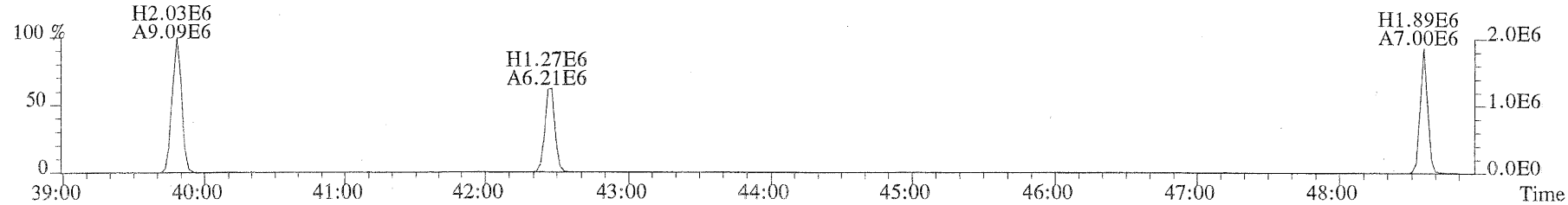
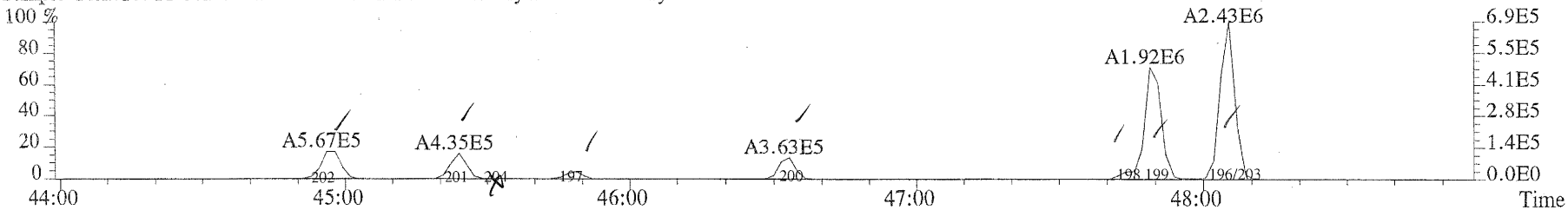
407.8398 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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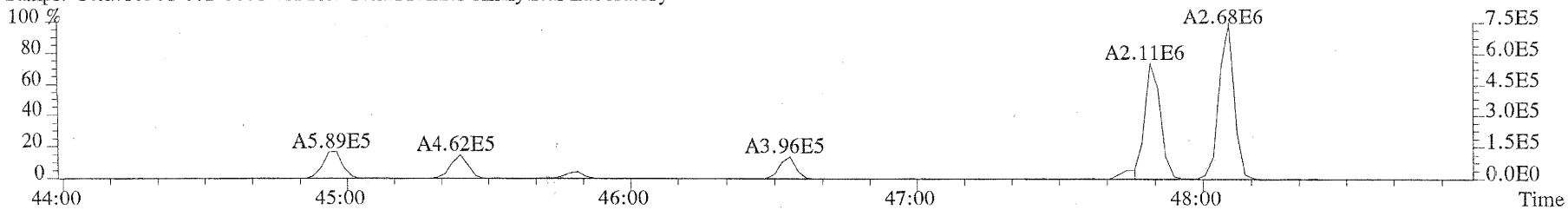
429.7606 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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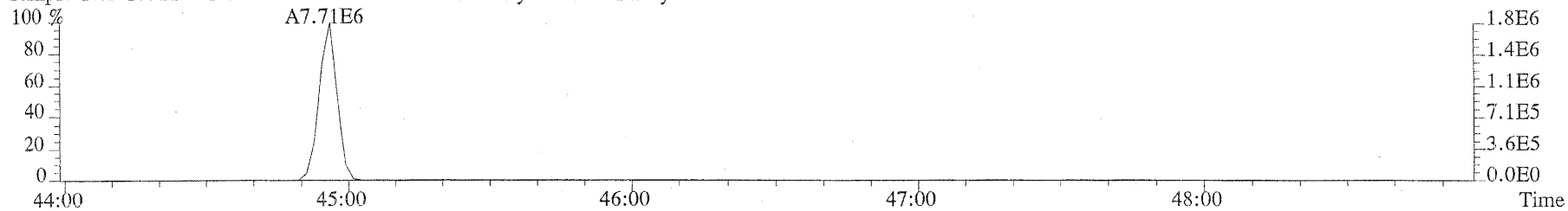
439.8038 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



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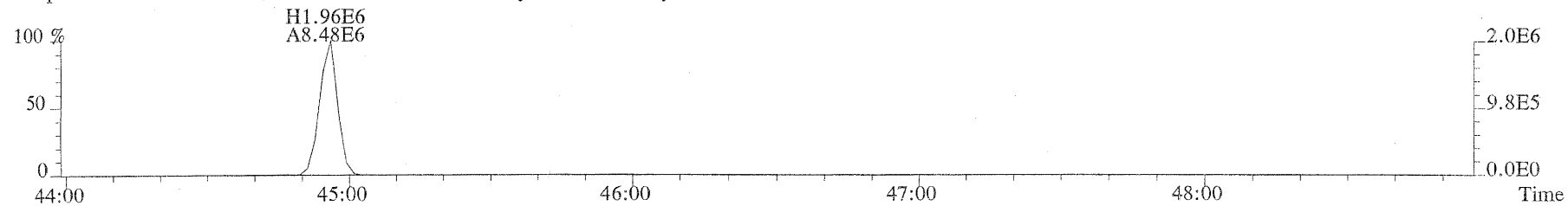
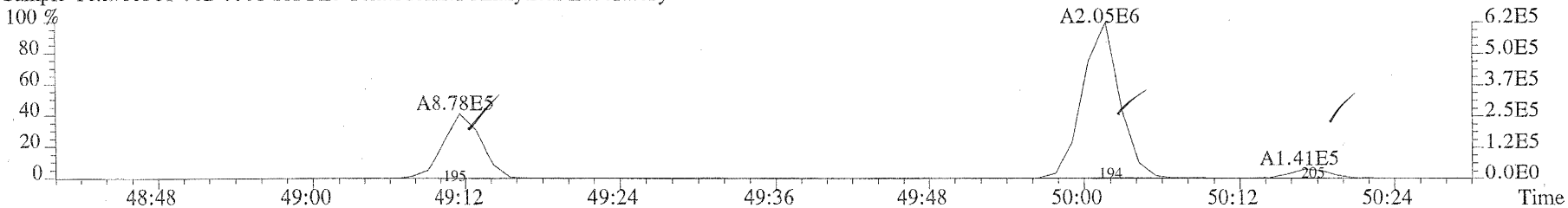
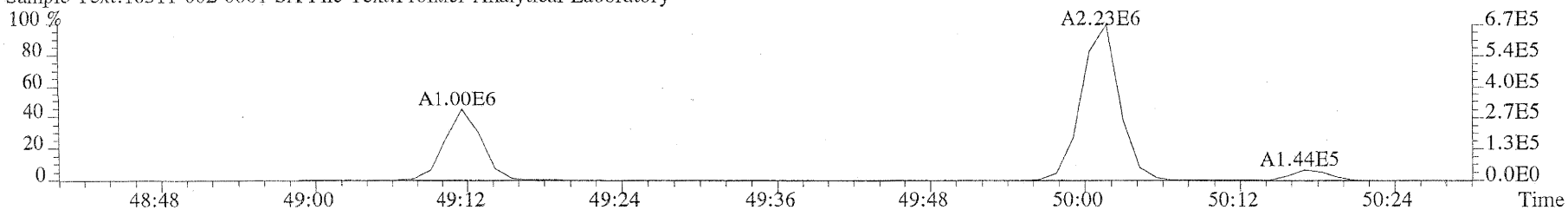
441.8008 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



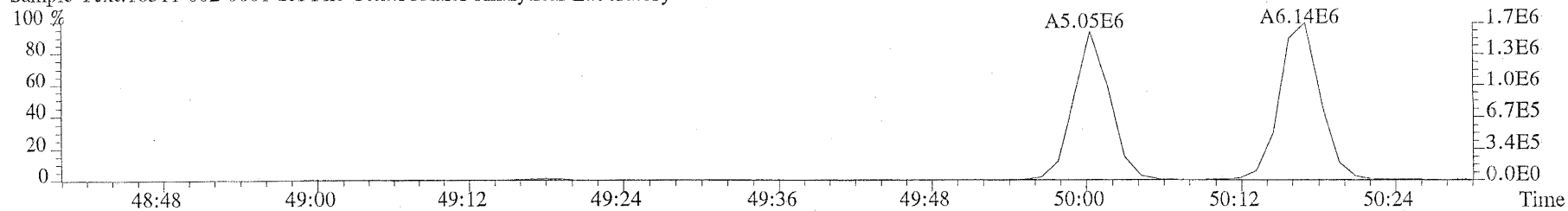
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



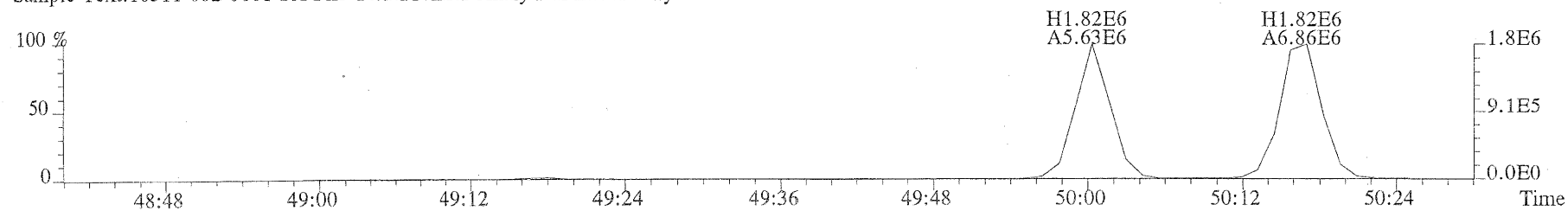
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



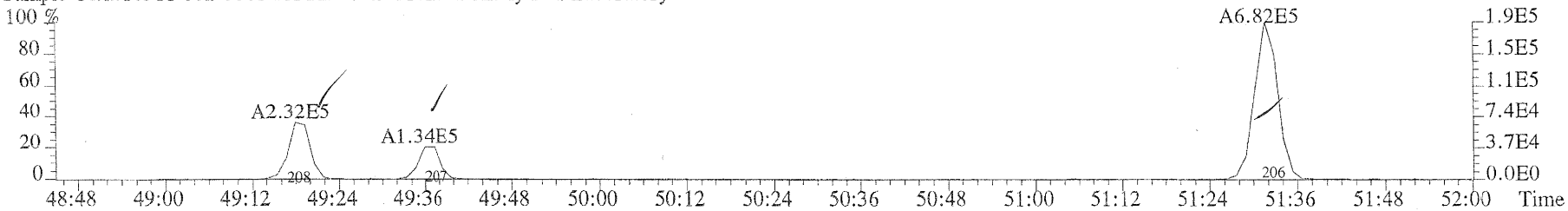
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



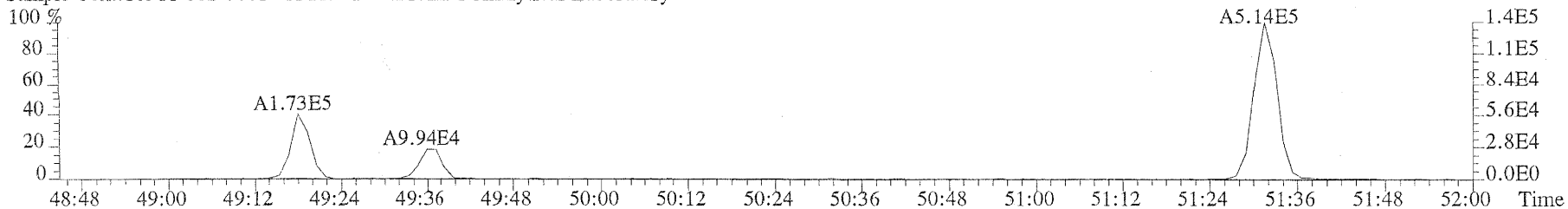
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



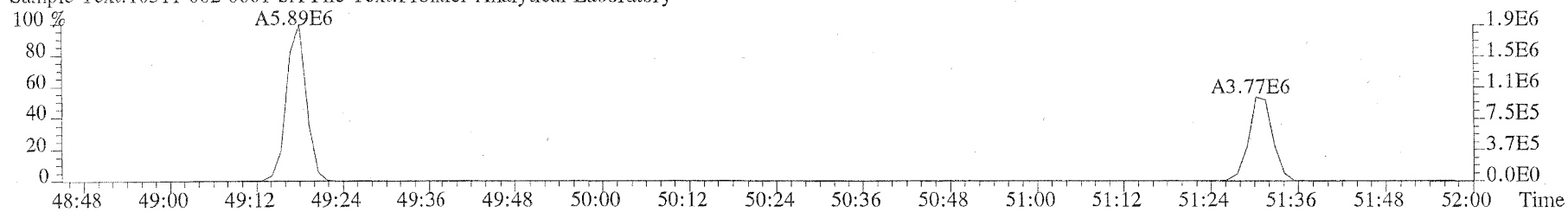
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



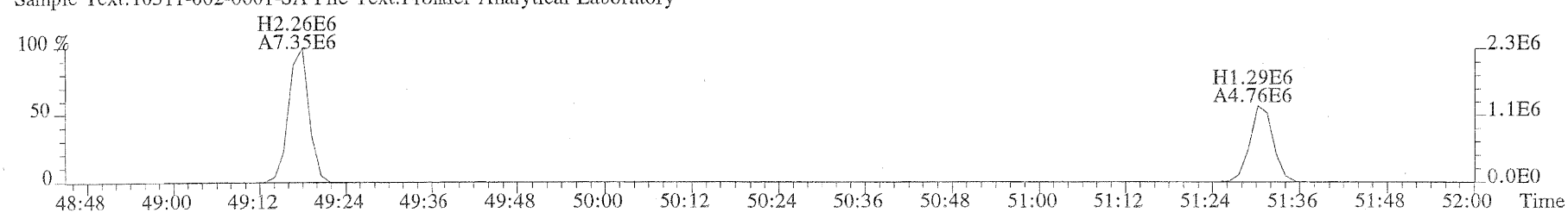
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



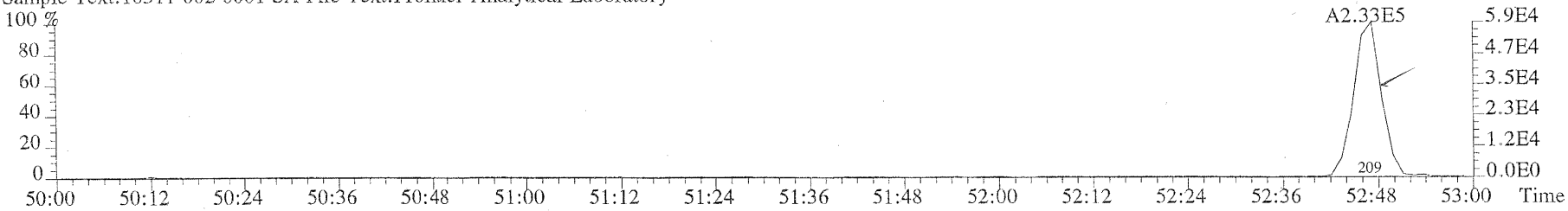
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



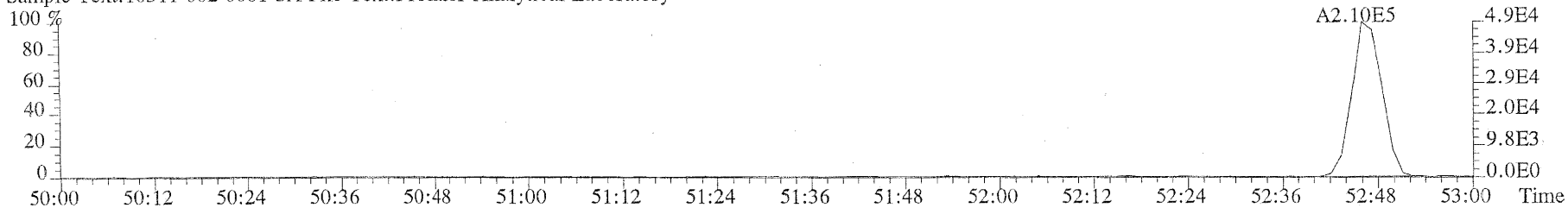
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



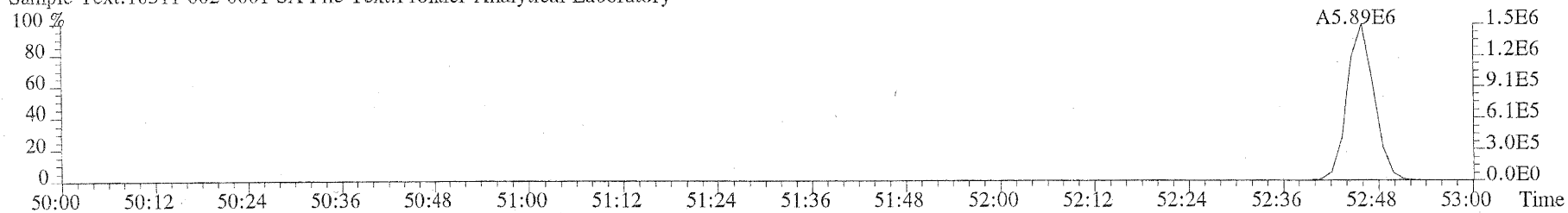
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



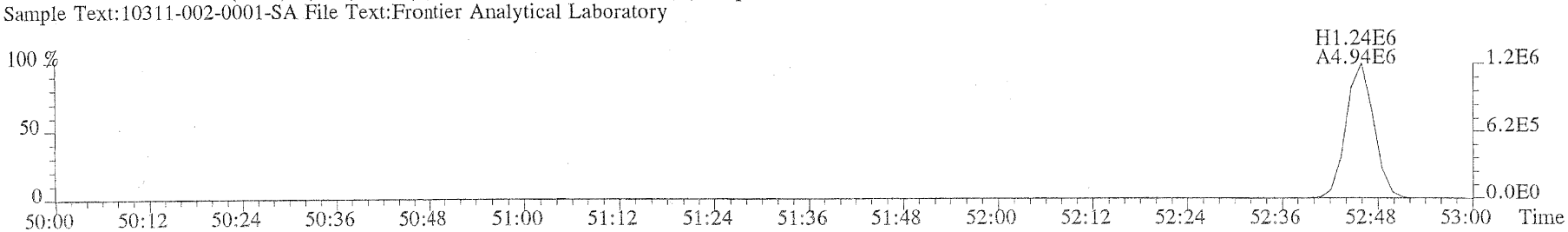
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:01:06 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-002-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10311-003-0001-SA Filename: 05JAN17Z Sam:14 Acquired: 5-JAN-17 22:59:26 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR+AC-CC-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.120

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	6.35e+05	2.98 y	14:33	0.92	61.9		-	-	*	
13C-PCB-1	2.19e+07	3.11 y	14:31	1.09	1760					90.2
PCB-2	1.28e+05	3.14 y	16:47	0.87	12.6		-	-	*	
PCB-3	4.88e+05	3.05 y	16:60	0.92	44.3		-	-	*	
13C-PCB-3	2.35e+07	3.19 y	16:59	1.14	1820					93.0
PCB-4	3.28e+06	1.55 y	18:14	1.17	428		-	-	*	
PCB-10	3.75e+05	1.62 y	18:18	0.99	43.9		-	-	*	
13C-PCB-4	1.28e+07	1.59 y	18:13	0.62	1820					93.1
PCB-9	1.00e+06	1.58 y	19:57	1.11	104		-	-	*	
PCB-7	1.01e+06	1.55 y	19:59	1.13	103		-	-	*	
PCB-6	5.46e+06	1.50 y	20:34	1.11	567		-	-	*	
PCB-8	2.28e+07	1.53 y	20:56	1.12	2340		-	-	*	
PCB-5	9.13e+05	1.68 y	21:01	1.08	97.0		-	-	*	
PCB-14	*	* n	NotFnd	1.11	*		985	998	1.99	
PCB-11	3.23e+05	1.46 y	23:08	1.08	34.5		-	-	*	
PCB-13	1.72e+06	1.54 y	23:30	1.09	182		-	-	*	
PCB-12	2.61e+05	1.77 y	23:33	1.06	28.5		-	-	*	
PCB-15	1.36e+07	1.58 y	23:49	1.00	1270		-	-	*	
13C-PCB-15	2.11e+07	1.62 y	23:48	1.03	1800					92.2
PCB-19	2.03e+06	1.03 y	22:08	0.95	328		-	-	*	
PCB-30	*	* n	NotFnd	1.39	*		810	789	1.76	
PCB-18	2.93e+07	1.06 y	23:43	0.97	4680		-	-	*	
PCB-17	1.52e+07	1.05 y	23:53	1.04	2260		-	-	*	
PCB-27	1.99e+06	1.04 y	24:23	1.37	224		-	-	*	
PCB-24	1.21e+06	1.09 y	24:25	1.37	137		-	-	*	
PCB-16	8.85e+06	0.99 y	24:53	1.12	1220		-	-	*	
PCB-32	1.31e+07	1.11 y	24:54	1.25	1620		-	-	*	
13C-PCB-19	1.27e+07	1.09 y	22:08	0.65	1720					87.9
13C-PCB-9	2.22e+07	1.62 y	19:55	-	4.72					
PCB-34	5.19e+05	1.01 y	25:40	0.86	103		-	-	*	
PCB-23	9.91e+04	1.02 y	25:45	0.99	17.2		-	-	*	
PCB-29	4.77e+05	1.08 y	26:01	1.01	81.1		-	-	*	
PCB-26	1.12e+07	1.06 y	26:12	0.98	1970		-	-	*	
PCB-25	6.47e+06	1.05 y	26:21	1.19	934		-	-	*	
PCB-31	6.49e+07	1.04 y	26:41	1.04	10700		-	-	*	
PCB-28	6.61e+07	1.04 y	26:47	1.10	10300		-	-	*	
PCB-20	3.47e+07	1.05 y	27:23	1.04	5750		-	-	*	Co-elute PCB 21/33
PCB-21	3.47e+07	1.05 y	27:23	1.04	5750		-	-	*	Co-elute PCB 20/33
PCB-33	3.47e+07	1.05 y	27:23	1.04	5750		-	-	*	Co-elute PCB 20/21
PCB-22	2.07e+07	1.06 y	27:47	1.03	3450		-	-	*	
PCB-36	*	* n	NotFnd	0.99	*		456	499	2.45	
PCB-39	1.42e+05	1.04 y	28:50	0.99	24.6		-	-	*	
PCB-38	1.58e+05	0.97 y	29:33	1.00	27.1		-	-	*	
PCB-35	7.66e+05	1.06 y	30:07	0.94	140		-	-	*	
PCB-37	1.30e+07	1.06 y	30:35	1.06	2120		-	-	*	
13C-PCB-37	1.14e+07	1.11 y	30:34	1.18	1870					95.6

FAL ID: 10311-003-0001-SA Filename: 05JAN17Z Sam:14 Acquired: 5-JAN-17 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR+AC-CC-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.120

PCB-54	1.04e+05	0.83	y	25:42	0.99	15.6	-	-	*	
PCB-50	1.41e+05	0.78	y	26:49	0.77	27.2	-	-	*	
PCB-53	4.91e+06	0.79	y	27:25	0.77	947	-	-	*	
PCB-51	1.58e+06	0.78	y	27:44	0.78	299	-	-	*	
PCB-45	4.15e+06	0.78	y	28:09	0.68	903	-	-	*	
PCB-46	1.49e+06	0.79	y	28:37	0.64	344	-	-	*	
PCB-52	5.64e+07	0.79	y	29:04	1.01	8250	-	-	*	Co-elute PCB 69
PCB-69	5.64e+07	0.79	y	29:04	1.01	8250	-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	0.89	*	412	466	1.42	
PCB-43	2.96e+07	0.78	y	29:22	0.76	5770	-	-	*	Co-elute PCB 49
PCB-49	2.96e+07	0.78	y	29:22	0.76	5770	-	-	*	Co-elute PCB 43
PCB-47	8.89e+06	0.88	y	29:34	0.95	1390	-	-	*	
PCB-48	7.60e+06	0.67	y	29:40	0.96	1170	-	-	*	Co-elute PCB 75
PCB-75	7.60e+06	0.67	y	29:40	0.96	1170	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.00	*	412	466	1.27	
PCB-62	*	*	n	NotFnd	0.93	*	412	466	1.37	
PCB-44	2.29e+07	0.79	y	30:22	0.69	4900	-	-	*	
PCB-42	8.66e+06	0.79	y	30:37	0.94	1360	-	-	*	Co-elute PCB 59
PCB-59	8.66e+06	0.79	y	30:37	0.94	1360	-	-	*	Co-elute PCB 42
PCB-72	2.29e+07	0.79	y	31:15	1.02	3330	-	-	*	Co-elute PCB 41/71/64
PCB-41	2.29e+07	0.79	y	31:15	1.02	3330	-	-	*	Co-elute PCB 72/71/64
PCB-71	2.29e+07	0.79	y	31:15	1.02	3330	-	-	*	Co-elute PCB 72/41/64
PCB-64	2.29e+07	0.79	y	31:15	1.02	3330	-	-	*	Co-elute PCB 72/41/71
PCB-68	1.94e+05	0.84	y	31:33	1.10	26.1	-	-	*	
PCB-40	3.00e+06	0.80	y	31:42	0.59	751	-	-	*	
PCB-57	2.67e+05	0.81	y	32:00	1.04	38.1	-	-	*	
PCB-67	2.13e+06	0.74	y	32:15	0.98	323	-	-	*	
PCB-58	3.24e+05	0.88	y	32:18	1.11	43.3	-	-	*	
PCB-63	2.84e+06	0.79	y	32:30	1.03	409	-	-	*	
PCB-74	3.55e+07	0.78	y	32:45	1.07	4900	-	-	*	
PCB-61	8.75e+07	0.77	y	32:56	1.12	11600	-	-	*	Co-elute PCB 70
PCB-70	8.75e+07	0.77	y	32:56	1.12	11600	-	-	*	Co-elute PCB 61
PCB-76	6.69e+07	0.78	y	33:08	1.07	9300	-	-	*	Co-elute PCB 66
PCB-66	6.69e+07	0.78	y	33:08	1.07	9300	-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.19	*	412	466	1.07	
PCB-55	1.14e+06	0.64	n	33:38	1.06	159	-	-	*	
13C-PCB-54	1.32e+07	0.82	y	25:40	1.05	2420				124
PCB-104	*	*	n	NotFnd	1.04	*	218	201	1.67	
PCB-96	3.15e+05	1.64	y	31:32	0.98	96.3	-	-	*	
PCB-103	5.30e+05	1.63	y	32:00	0.83	190	-	-	*	
PCB-100	2.78e+05	1.52	y	32:17	0.82	101	-	-	*	
PCB-94	3.30e+05	1.52	y	32:41	0.68	144	-	-	*	
PCB-98	*	*	n	NotFnd	0.87	*	218	201	2.00	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.87	*	218	201	2.00	Co-elute PCB 98
PCB-95	6.41e+07	1.61	y	33:12	0.71	27000	-	-	*	
PCB-93	*	*	n	NotFnd	0.67	*	218	201	2.59	
PCB-88	1.04e+07	1.61	y	33:34	0.77	4010	-	-	*	Co-elute PCB 91
PCB-91	1.04e+07	1.61	y	33:34	0.77	4010	-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.96	*	218	201	1.82	
13C-PCB-104	6.55e+06	1.57	y	30:11	0.92	1380				70.5
13C-PCB-28	1.89e+07	1.05	y	26:46	1.30	2820				144
13C-PCB-52	1.01e+07	0.79	y	29:03	-	3.03				

PCB-56	3.95e+07	0.79	y	34:06	1.01	5130	-	-	*	Co-elute PCB 60
PCB-60	3.95e+07	0.79	y	34:06	1.01	5130	-	-	*	Co-elute PCB 56
PCB-79	1.24e+06	0.76	y	35:06	1.04	157	-	-	*	
PCB-78	3.38e+05	0.66	y	35:42	0.99	44.7	-	-	*	
PCB-81	1.98e+06	0.77	y	36:17	1.06	247	-	-	*	
13C-PCB-81	1.48e+07	0.79	y	36:16	1.07	2070				106
PCB-77	5.62e+06	0.80	y	36:50	0.98	748	-	-	*	
13C-PCB-77	1.50e+07	0.79	y	36:49	1.08	2080				106
PCB-155	*	*	n	NotFnd	0.98	*	345	341	1.05	
PCB-150	1.57e+05	1.16	y	35:32	0.89	25.0	-	-	*	
PCB-152	1.16e+05	1.21	y	35:59	0.87	19.1	-	-	*	
PCB-145	4.91e+04	1.19	y	36:23	0.85	8.18	-	-	*	
PCB-136	1.31e+07	1.25	y	36:42	0.87	2140	-	-	*	
PCB-148	*	*	n	NotFnd	0.64	*	345	341	1.61	
PCB-154	9.71e+05	1.33	y	37:17	0.77	180	-	-	*	
13C-PCB-155	1.37e+07	1.27	y	34:20	1.11	1840				94.4
13C-PCB-111	1.55e+07	1.57	y	36:25	1.14	2030				104
13C-PCB-101	1.31e+07	1.58	y	34:46	-	4.17				
PCB-84	3.64e+07	1.58	y	34:26	0.79	7170	-	-	*	Co-elute PCB 92
PCB-92	3.64e+07	1.58	y	34:26	0.79	7170	-	-	*	Co-elute PCB 84
PCB-89	7.66e+05	1.63	y	34:36	0.76	157	-	-	*	
PCB-90	1.03e+08	1.58	y	34:47	0.87	18300	-	-	*	Co-elute PCB 101
PCB-101	1.03e+08	1.58	y	34:47	0.87	18300	-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.99	*	422	378	1.43	
PCB-99	4.21e+07	1.56	y	35:06	0.97	6750	-	-	*	
PCB-119	2.42e+06	1.54	y	35:32	1.13	332	-	-	*	
PCB-83	4.42e+06	1.54	y	35:42	0.87	783	-	-	*	Co-elute PCB 112
PCB-112	4.42e+06	1.54	y	35:42	0.87	783	-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.05	*	422	378	1.35	
PCB-97	2.72e+07	1.56	y	36:01	0.95	4430	-	-	*	
PCB-86	*	*	n	NotFnd	0.76	*	422	378	1.86	
PCB-125	4.15e+07	1.58	y	36:17	1.00	6430	-	-	*	Co-elute PCB 87/117
PCB-87	4.15e+07	1.58	y	36:17	1.00	6430	-	-	*	Co-elute PCB 125/117
PCB-117	4.15e+07	1.58	y	36:17	1.00	6430	-	-	*	Co-elute PCB 125/87
PCB-111	2.36e+06	1.52	y	36:26	1.21	302	-	-	*	Co-elute PCB 115
PCB-115	2.36e+06	1.52	y	36:26	1.21	302	-	-	*	Co-elute PCB 111
PCB-85	1.42e+07	1.57	y	36:32	0.95	2320	-	-	*	Co-elute PCB 116
PCB-116	1.42e+07	1.57	y	36:32	0.95	2320	-	-	*	Co-elute PCB 85
PCB-120	1.33e+05	1.65	y	36:42	1.17	17.6	-	-	*	
PCB-110	1.22e+08	1.55	y	36:54	1.15	16300	-	-	*	
PCB-82	8.22e+06	1.56	y	37:29	0.66	1940	-	-	*	
PCB-124	4.02e+06	1.52	y	38:09	0.92	680	-	-	*	
PCB-108	6.73e+06	1.52	y	38:19	1.02	1020	-	-	*	Co-elute PCB 107
PCB-107	6.73e+06	1.52	y	38:19	1.02	1020	-	-	*	Co-elute PCB 108
PCB-123	1.40e+06	1.46	y	38:28	1.10	205	-	-	*	
13C-PCB-123	1.21e+07	1.57	y	38:28	1.05	2140				110
PCB-118	9.29e+07	1.54	y	38:39	0.92	15300	-	-	*	Co-elute PCB 106
PCB-106	9.29e+07	1.54	y	38:39	0.92	15300	-	-	*	Co-elute PCB 118
13C-PCB-118	1.28e+07	1.62	y	38:37	1.10	2180				111
PCB-114	2.31e+06	1.51	y	39:15	0.95	373	-	-	*	
13C-PCB-114	1.28e+07	1.57	y	39:15	1.05	2270				116
PCB-122	9.98e+05	1.57	y	39:22	1.02	152	-	-	*	
PCB-105	3.63e+07	1.58	y	40:05	0.99	5620	-	-	*	
13C-PCB-105	1.27e+07	1.57	y	40:03	1.06	2230				114

FAL ID: 10311-003-0001-SA Filename: 05JAN17Z Sam:14 Acquired: 5-JAN-17 22:59:26 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR+AC-CC-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.120

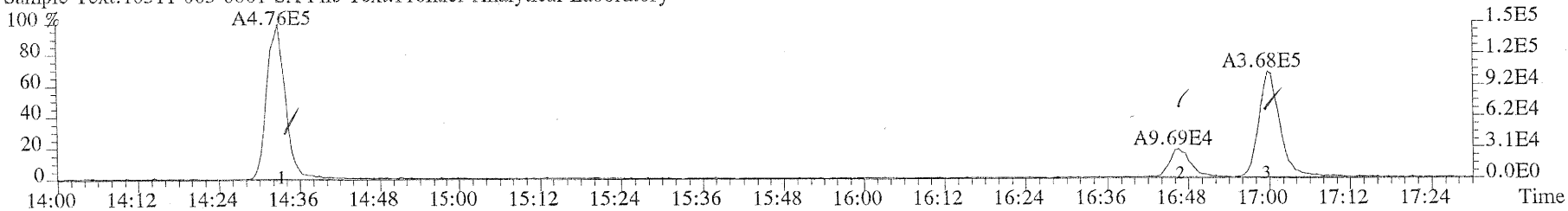
PCB-127	*	*	n	NotFnd	0.92	*	511	401	1.76		
PCB-126	3.86e+05	1.41	y	42:11	1.00	62.1	-	-	*		
13C-PCB-126	1.21e+07	1.60	y	42:11	1.00	2250				115	
PCB-151	1.39e+07	1.26	y	37:53	0.67	3370	-	-	*		
PCB-135	9.03e+06	1.27	y	38:06	0.72	2070	-	-	*		
PCB-144	3.64e+06	1.26	y	38:13	0.67	883	-	-	*		
PCB-147	1.75e+06	1.25	y	38:19	0.76	376	-	-	*		
PCB-139	5.77e+07	1.27	y	38:34	0.76	12500	-	-	*	Co-elute PCB 149	
PCB-149	5.77e+07	1.27	y	38:34	0.76	12500	-	-	*	Co-elute PCB 139	
PCB-140	4.01e+05	1.21	y	38:46	0.73	89.4	-	-	*		
PCB-143	4.25e+06	1.26	y	39:10	0.69	1000	-	-	*	Co-elute PCB 134	
PCB-134	4.25e+06	1.26	y	39:10	0.69	1000	-	-	*	Co-elute PCB 143	
PCB-131	2.35e+06	1.28	y	39:27	0.71	545	-	-	*	Co-elute PCB 133	
PCB-133	2.35e+06	1.28	y	39:27	0.71	545	-	-	*	Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.62	*	489	444	2.81		
PCB-165	1.16e+07	1.26	y	39:50	0.85	2240	-	-	*	Co-elute PCB 146	
PCB-146	1.16e+07	1.26	y	39:50	0.85	2240	-	-	*	Co-elute PCB 165	
PCB-161	2.63e+07	1.26	y	40:03	0.79	5470	-	-	*	Co-elute PCB 132	
PCB-132	2.63e+07	1.26	y	40:03	0.79	5470	-	-	*	Co-elute PCB 161	
PCB-153	7.63e+07	1.29	y	40:13	0.84	14900	-	-	*		
PCB-168	*	*	n	NotFnd	0.91	*	489	444	1.92		
PCB-141	1.34e+07	1.30	y	40:54	0.74	2980	-	-	*		
PCB-137	4.11e+06	1.24	y	41:15	0.65	1030	-	-	*		
PCB-130	5.00e+06	1.28	y	41:22	0.69	1190	-	-	*		
PCB-138	9.00e+07	1.28	y	41:42	0.95	15500	-	-	*	Co-elute PCB 163/164	
PCB-163	9.00e+07	1.28	y	41:42	0.95	15500	-	-	*	Co-elute PCB 138/164	
PCB-164	9.00e+07	1.28	y	41:42	0.95	15500	-	-	*	Co-elute PCB 138/163	
PCB-158	1.21e+07	1.24	y	41:57	0.94	2110	-	-	*	Co-elute PCB 160	
PCB-160	1.21e+07	1.24	y	41:57	0.94	2110	-	-	*	Co-elute PCB 158	
PCB-129	3.69e+06	1.28	y	42:10	0.59	1030	-	-	*		
PCB-166	7.98e+04	1.24	y	42:30	0.90	14.5	-	-	*		
PCB-159	5.60e+05	1.24	y	42:57	0.96	95.1	-	-	*		
PCB-128	1.43e+07	1.27	y	43:11	0.81	2880	-	-	*	Co-elute PCB 162	
PCB-162	1.43e+07	1.27	y	43:11	0.81	2880	-	-	*	Co-elute PCB 128	
PCB-167	4.02e+06	1.25	y	43:35	0.88	711	-	-	*		
13C-PCB-167	1.26e+07	1.27	y	43:34	1.16	2030				104	
PCB-156	1.12e+07	1.26	y	44:49	0.92	1960	-	-	*		
13C-PCB-156	1.20e+07	1.28	y	44:48	1.11	2030				104	
PCB-157	2.36e+06	1.25	y	45:04	0.94	401	-	-	*		
13C-PCB-157	1.22e+07	1.27	y	45:03	1.14	2000				102	
PCB-169	*	*	n	NotFnd	0.89	*	489	444	1.90		
13C-PCB-169	1.09e+07	1.25	y	46:55	1.10	1850				94.9	

FAL ID: 10311-003-0001-SA Filename: 05JAN17Z Sam:14 Acquired: 5-JAN-17 22:59:26 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR+AC-CC-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.120

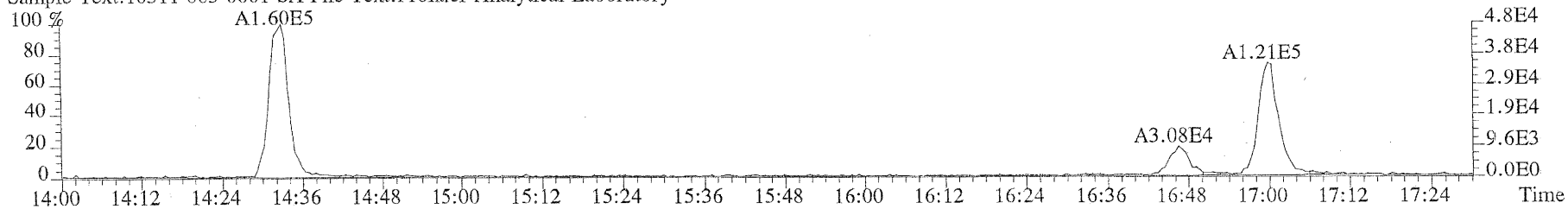
PCB-188	3.56e+04	0.99	y	39:50	1.04	5.30		-	-	*	
13C-PCB-188	1.27e+07	1.08	y	39:48	1.22	1940					99.2
PCB-184	*	*	n	NotFnd	1.08	*		456	441	1.46	
PCB-179	7.54e+06	1.06	y	40:59	1.03	1330		-	-	*	
PCB-176	2.63e+06	1.05	y	41:25	1.01	473		-	-	*	
PCB-186	*	*	n	NotFnd	1.00	*		456	441	1.57	
PCB-178	2.70e+06	1.06	y	42:28	0.73	667		-	-	*	
PCB-175	6.09e+05	1.02	y	42:49	0.76	145		-	-	*	
PCB-187	1.76e+07	1.05	y	42:57	0.84	3800		-	-	*	Co-elute PCB 182
PCB-182	1.76e+07	1.05	y	42:57	0.84	3800		-	-	*	Co-elute PCB 187
PCB-183	8.91e+06	1.06	y	43:17	0.83	1950		-	-	*	
PCB-185	1.53e+06	1.06	y	43:55	0.77	361		-	-	*	
PCB-174	1.35e+07	1.06	y	44:15	0.76	3230		-	-	*	
PCB-181	*	*	n	NotFnd	0.77	*		456	441	2.04	
PCB-177	7.74e+06	1.05	y	44:30	0.69	2020		-	-	*	
PCB-171	4.17e+06	1.05	y	44:48	0.73	1030		-	-	*	
PCB-173	3.47e+05	1.02	y	45:11	0.67	94.5		-	-	*	
PCB-172	2.14e+06	1.07	y	45:35	0.69	561		-	-	*	
PCB-192	*	*	n	NotFnd	0.91	*		456	441	1.74	
PCB-180	2.99e+07	1.06	y	45:57	0.92	5920		-	-	*	
PCB-193	1.88e+06	1.04	y	46:07	0.97	350		-	-	*	
PCB-191	7.40e+05	1.04	y	46:20	0.97	139		-	-	*	
PCB-170	1.16e+07	1.04	y	47:13	0.68	3070		-	-	*	
PCB-190	3.00e+06	1.01	y	47:22	0.93	582		-	-	*	
PCB-189	5.88e+05	0.99	y	48:37	0.99	131		-	-	*	
13C-PCB-189	8.85e+06	1.08	y	48:35	1.10	1500					76.8
PCB-202	1.05e+06	0.89	y	44:58	0.86	232		-	-	*	
PCB-201	8.05e+05	0.86	y	45:24	0.86	178		-	-	*	
PCB-204	*	*	n	NotFnd	0.87	*		431	429	2.00	
PCB-197	2.42e+05	0.81	y	45:49	0.88	52.3		-	-	*	
PCB-200	7.02e+05	0.97	y	46:33	0.88	151		-	-	*	
PCB-198	1.74e+05	1.01	y	47:44	0.65	50.7		-	-	*	
PCB-199	3.60e+06	0.91	y	47:50	0.60	1150		-	-	*	
PCB-203	4.39e+06	0.91	y	48:05	0.68	1230		-	-	*	Co-elute PCB 196
PCB-196	4.39e+06	0.91	y	48:05	0.68	1230		-	-	*	Co-elute PCB 203
13C-PCB-202	1.02e+07	0.90	y	44:56	1.09	1760					89.9
13C-PCB-178	9.06e+06	1.10	y	42:28	0.89	1900					97.3
13C-PCB-138	1.05e+07	1.25	y	41:40	-	3.77					
PCB-195	1.66e+06	0.90	y	49:11	0.70	570		-	-	*	
PCB-194	3.98e+06	0.90	y	50:02	0.75	1270		-	-	*	
PCB-205	2.33e+05	0.86	y	50:18	0.98	57.4		-	-	*	
13C-PCB-205	8.09e+06	0.90	y	50:17	1.24	1890					97.0
PCB-208	4.03e+05	1.32	y	49:19	0.90	104		-	-	*	
13C-PCB-208	8.39e+06	0.78	y	49:18	1.34	1820					93.3
PCB-207	2.03e+05	1.33	y	49:37	0.98	58.6		-	-	*	
PCB-206	1.08e+06	1.32	y	51:33	0.92	428		-	-	*	
13C-PCB-206	5.34e+06	0.79	y	51:31	0.96	1610					82.6
PCB-209	5.70e+05	1.18	y	52:48	0.97	161		-	-	*	
13C-PCB-209	7.11e+06	1.17	y	52:47	1.40	1480					75.9
13C-PCB-194	6.71e+06	0.92	y	50:00	-	3.27					

Analyst: _____ Date: 1/9/17

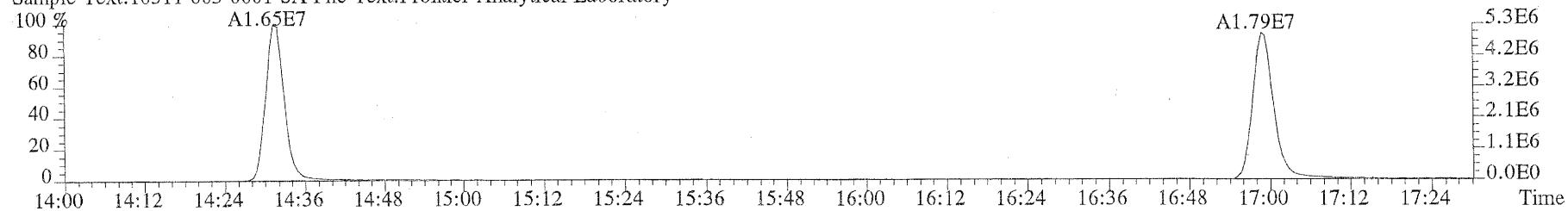
File:05JAN17Z #1-783 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



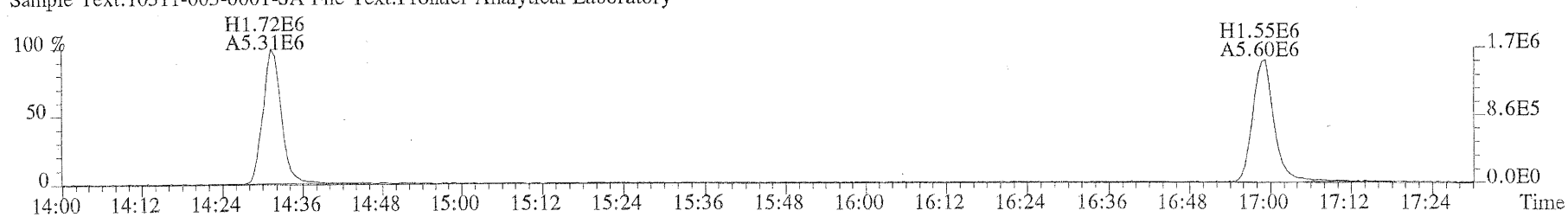
File:05JAN17Z #1-783 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



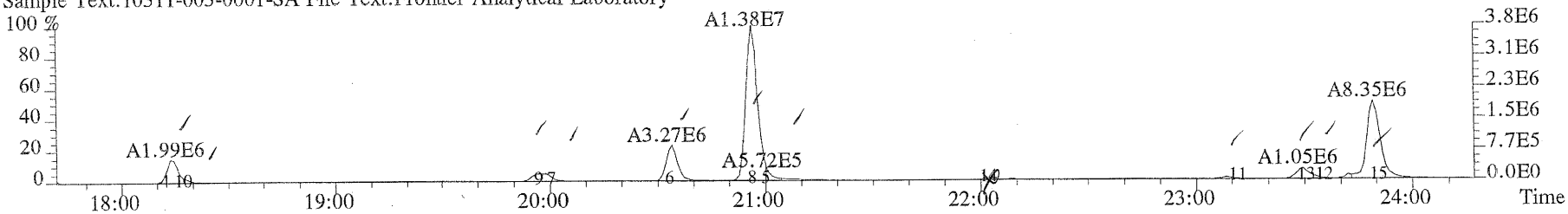
File:05JAN17Z #1-783 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



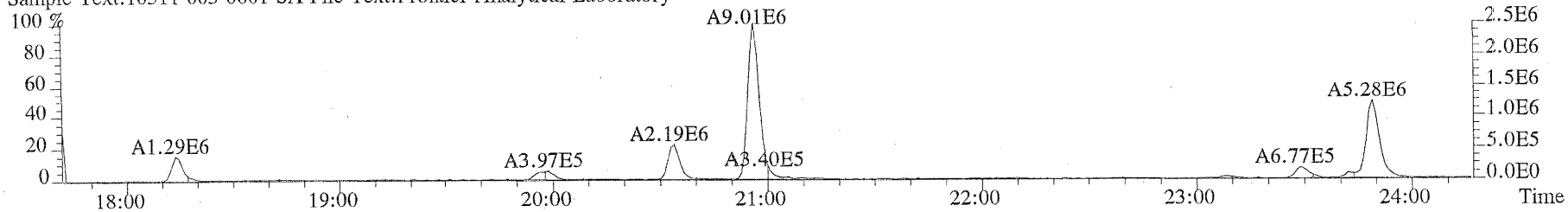
File:05JAN17Z #1-783 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



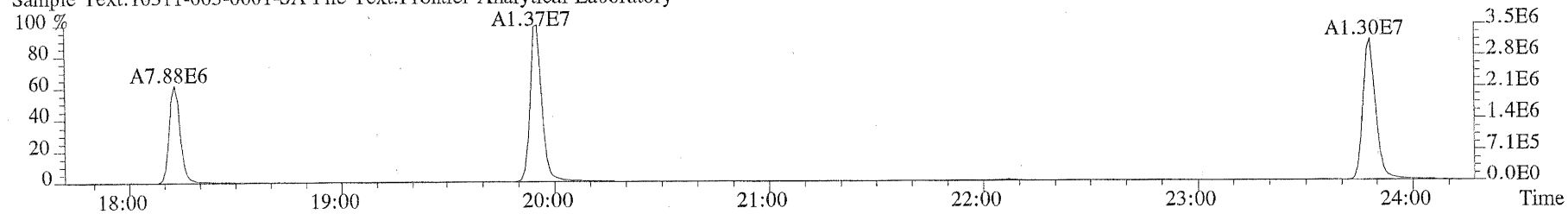
File:05JAN17Z #1-509 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



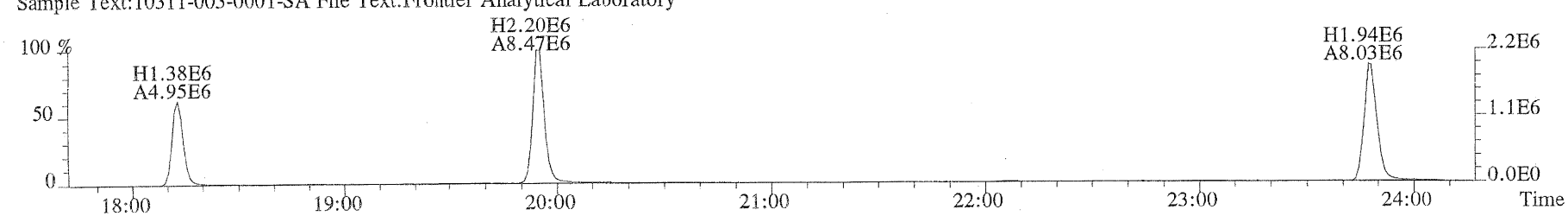
File:05JAN17Z #1-509 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



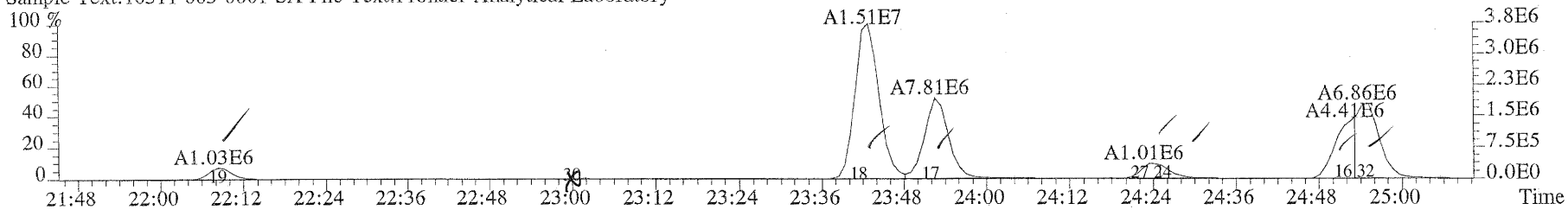
File:05JAN17Z #1-509 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



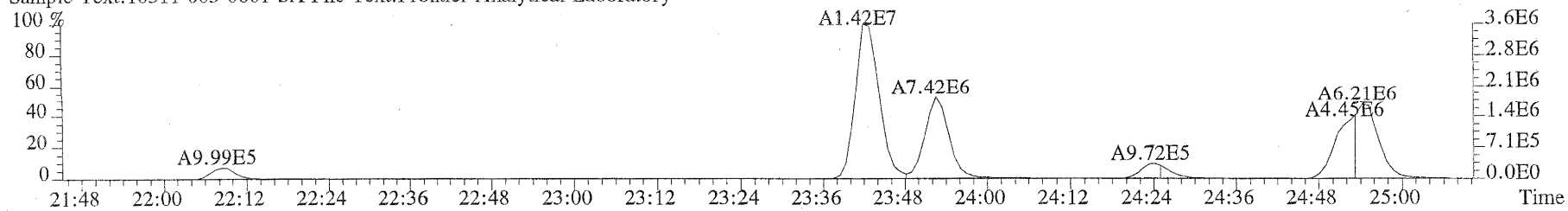
File:05JAN17Z #1-509 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



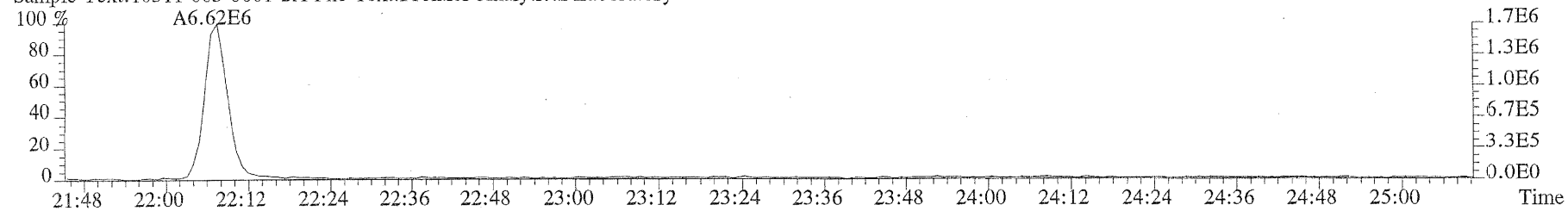
File:05JAN17Z #1-509 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



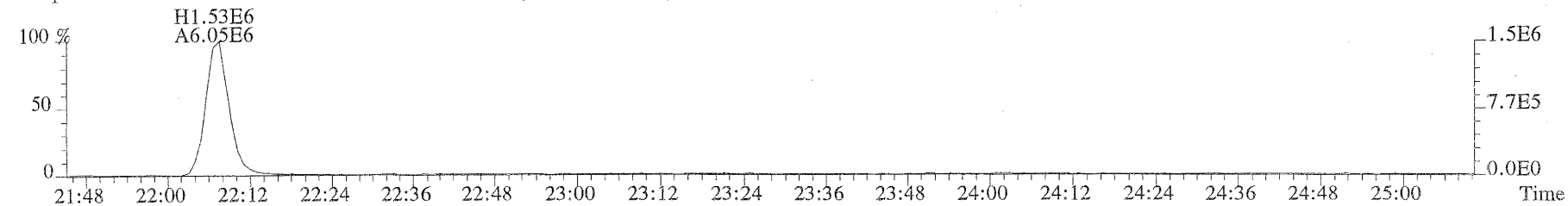
File:05JAN17Z #1-509 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



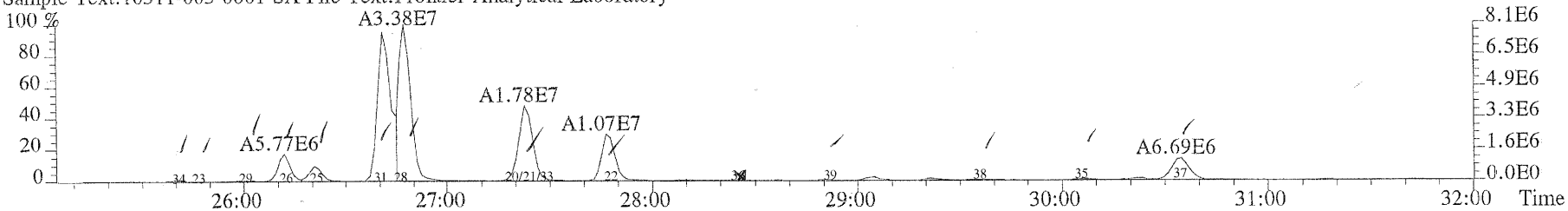
File:05JAN17Z #1-509 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



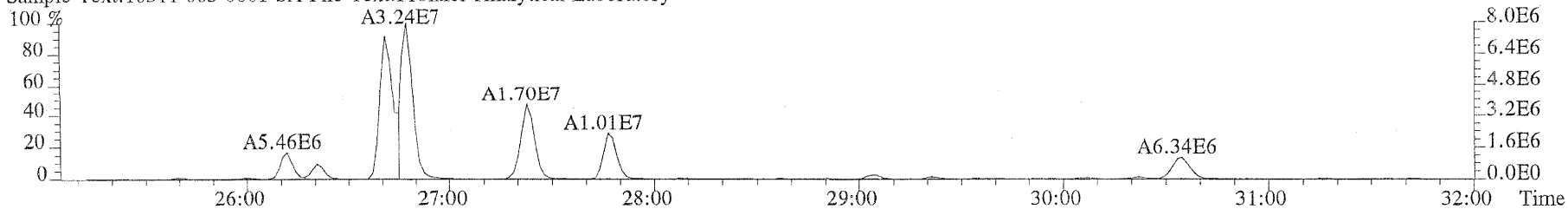
File:05JAN17Z #1-509 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:59:26 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:10311-003-0001-SA File Text:Frontier Analytical Laboratory



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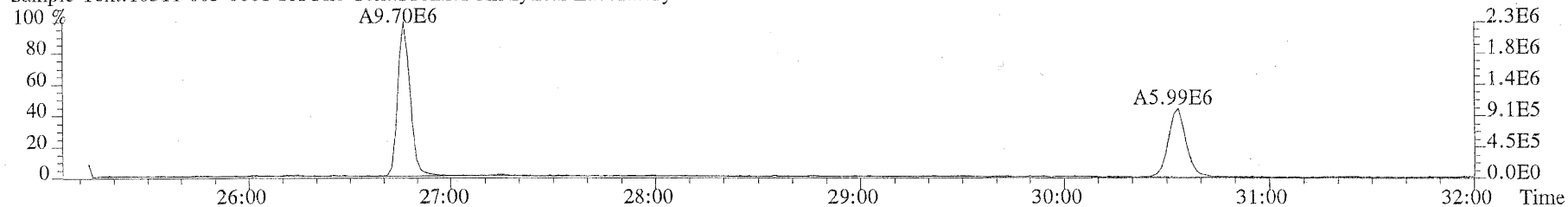
268.0016 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



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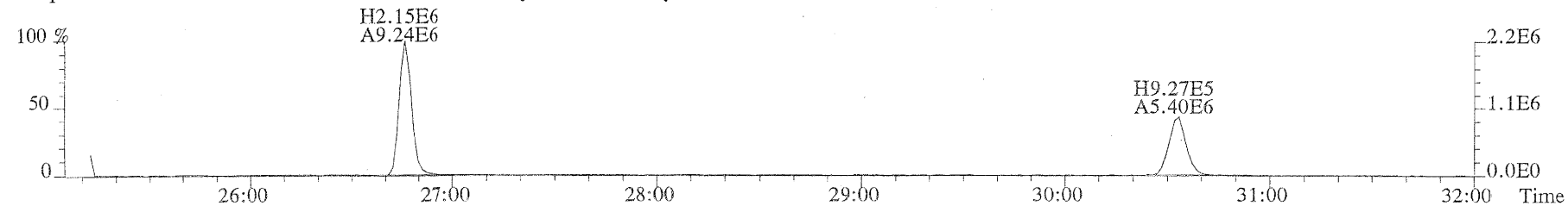
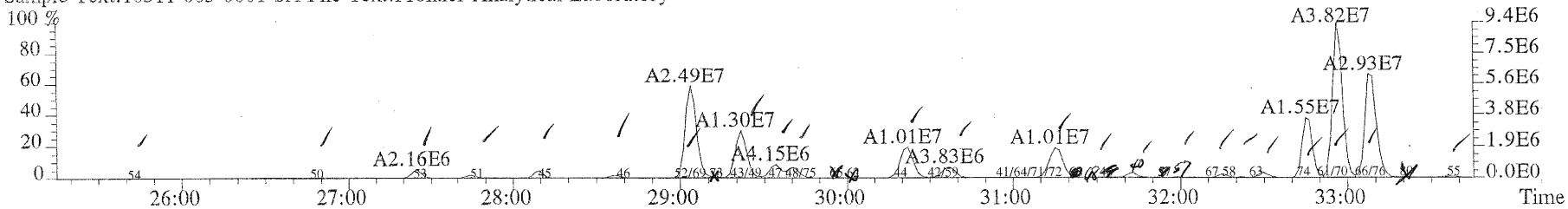
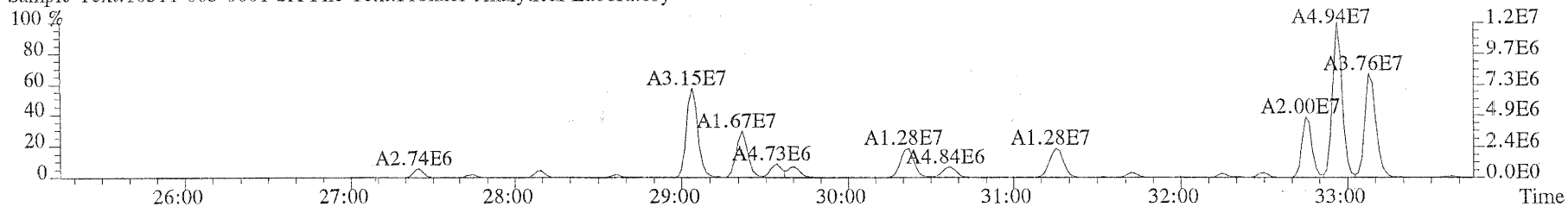
269.9986 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



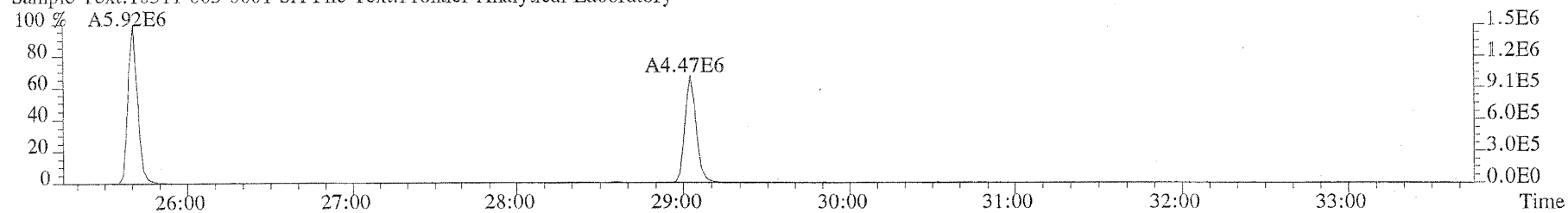
File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



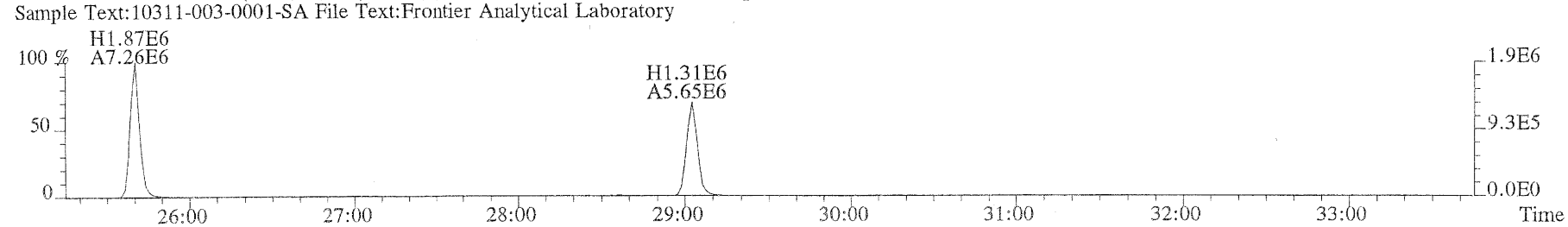
File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



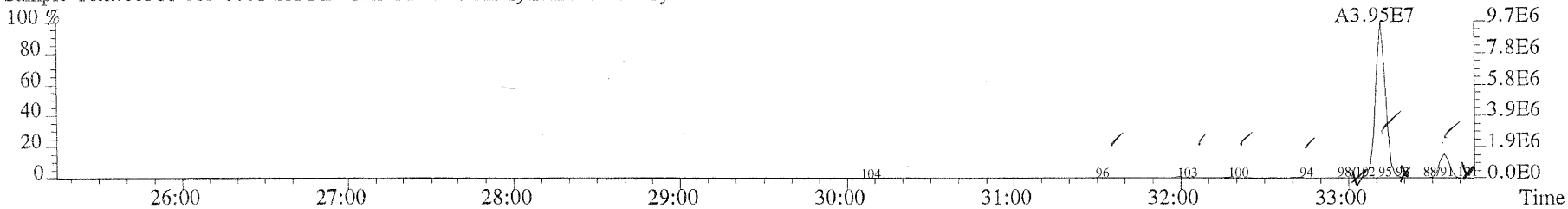
File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



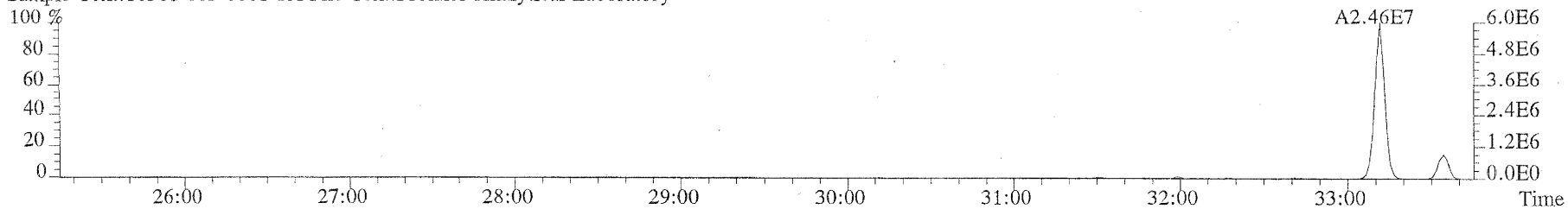
File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



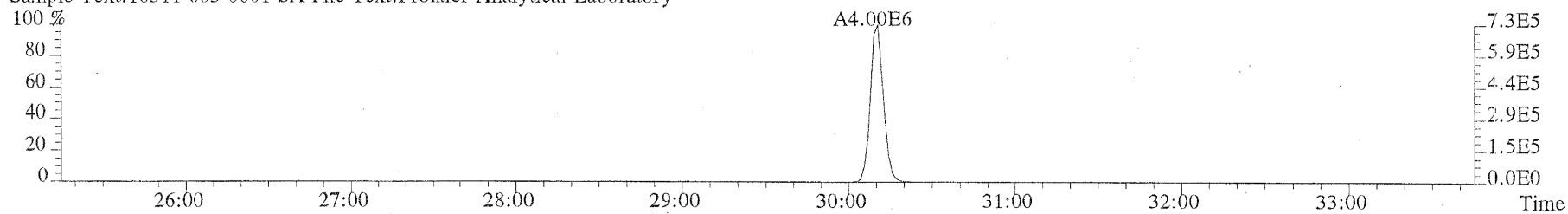
File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



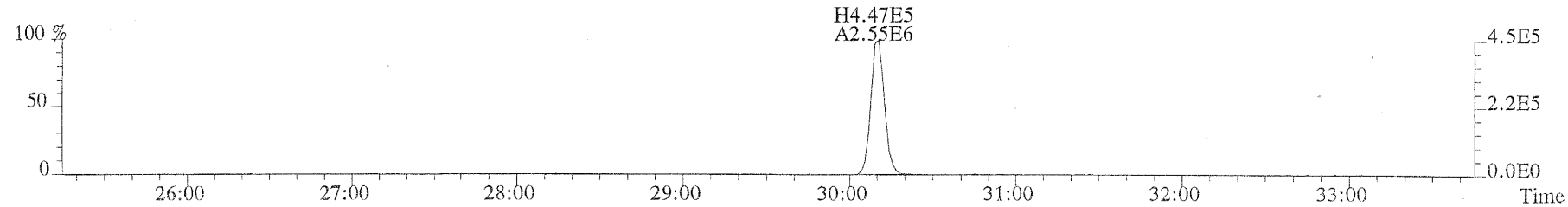
File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



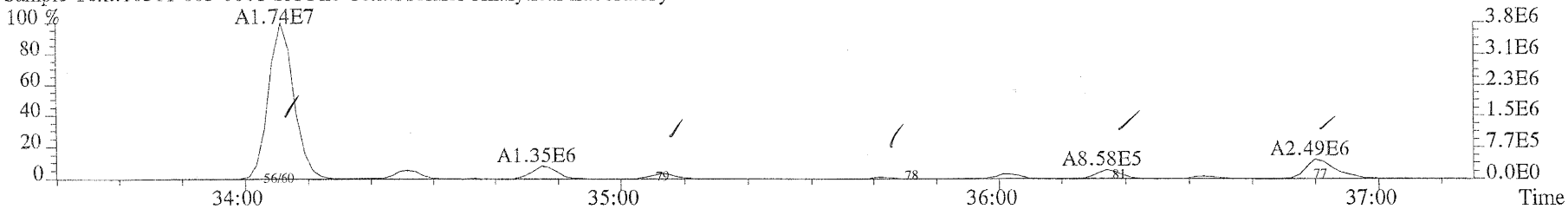
File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



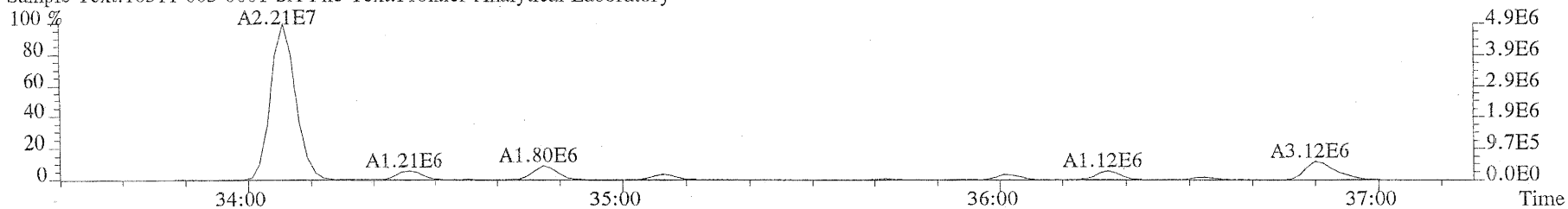
File:05JAN17Z #1-407 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 22:59:26 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:10311-003-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 22:59:26 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:10311-003-0001-SA File Text:Frontier Analytical Laboratory



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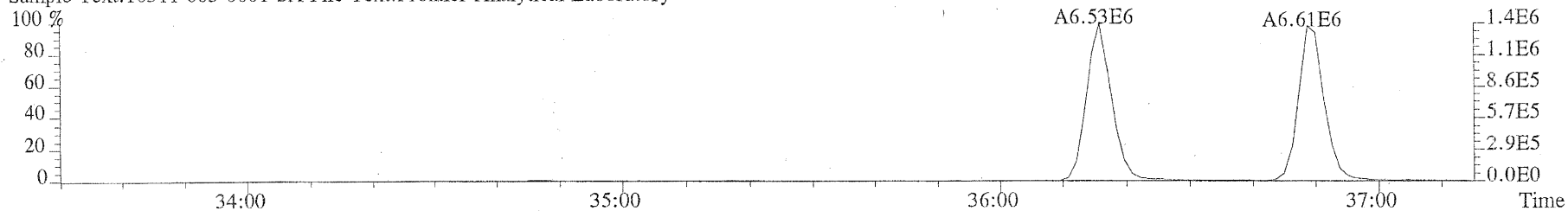
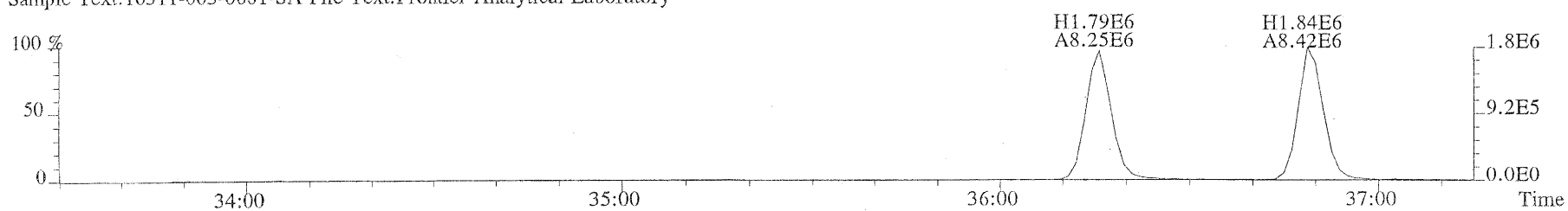
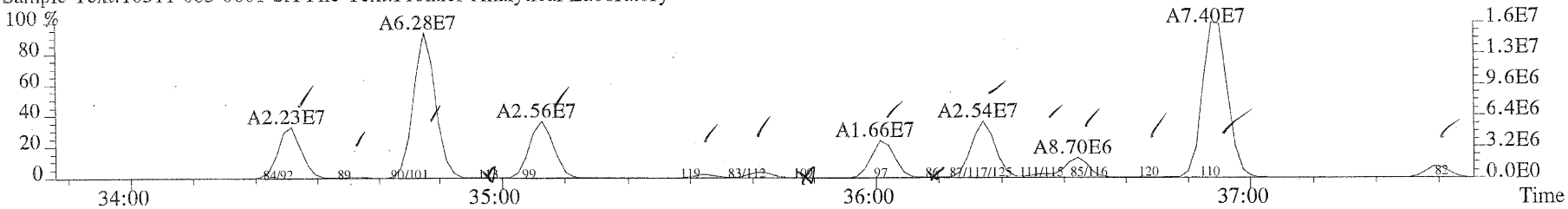


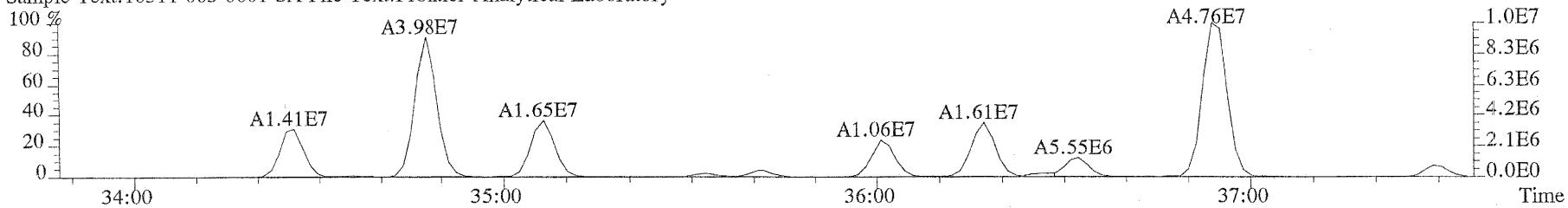
File:05JAN17Z #1-181 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



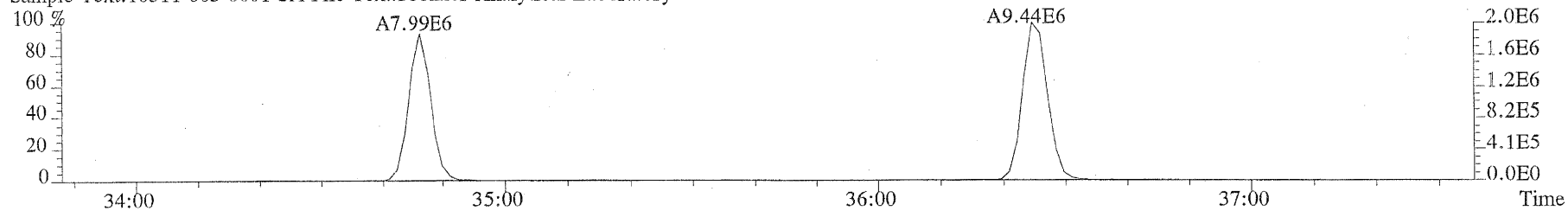
File:05JAN17Z #1-181 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



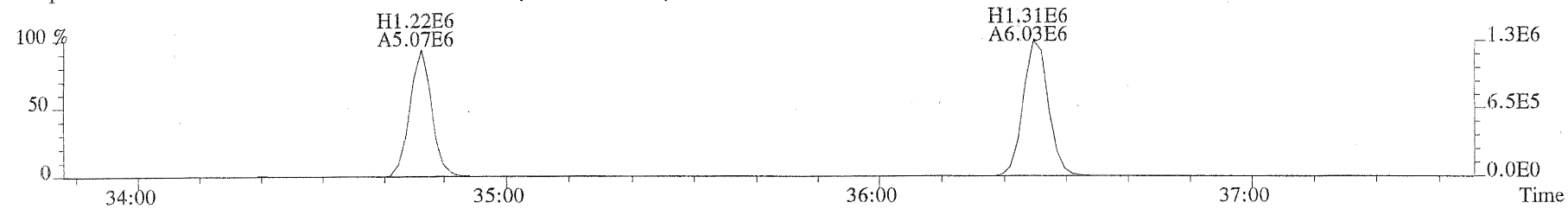
File:05JAN17Z #1-181 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



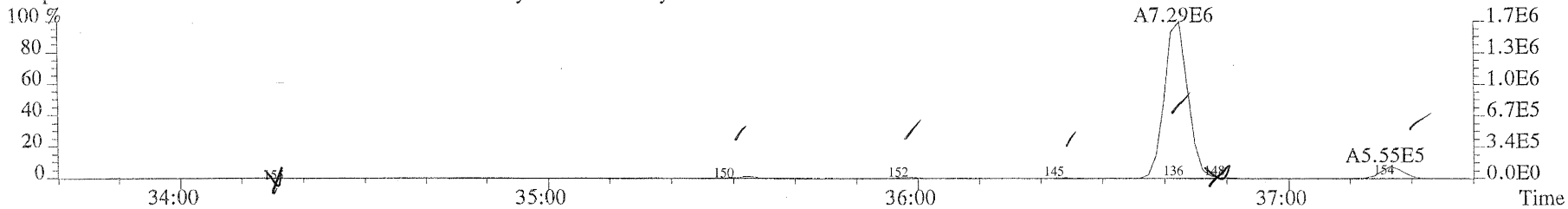
File:05JAN17Z #1-181 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



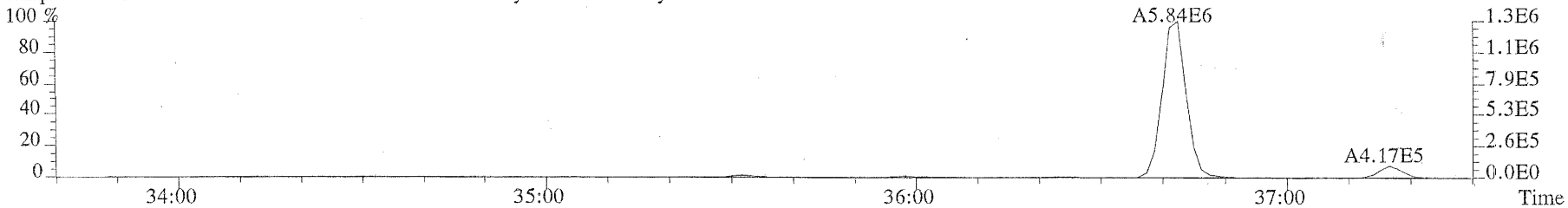
File:05JAN17Z #1-181 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



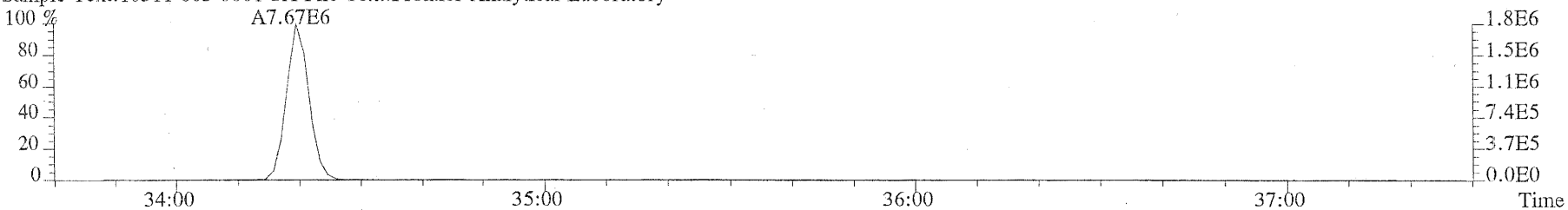
File:05JAN17Z #1-181 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



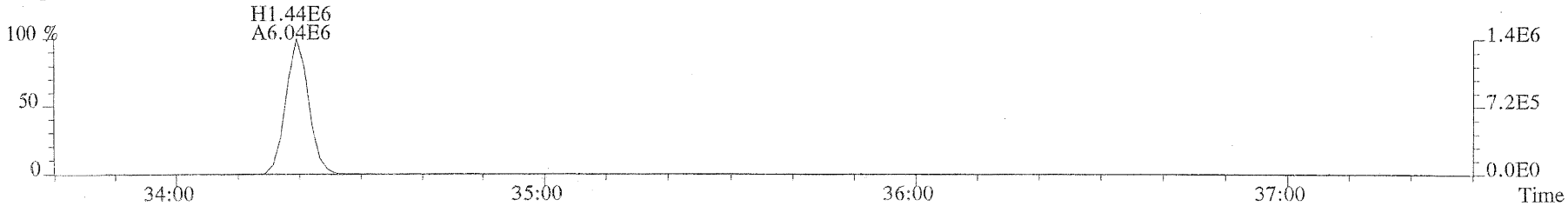
File:05JAN17Z #1-181 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



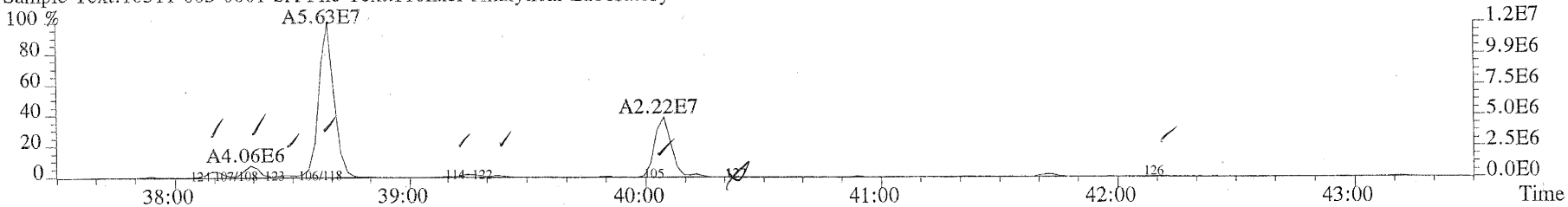
File:05JAN17Z #1-181 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



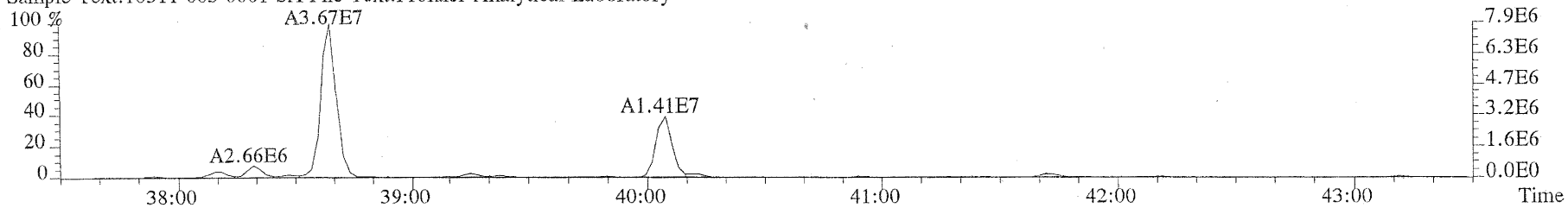
File:05JAN17Z #1-181 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 22:59:26 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:10311-003-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 22:59:26 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:10311-003-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
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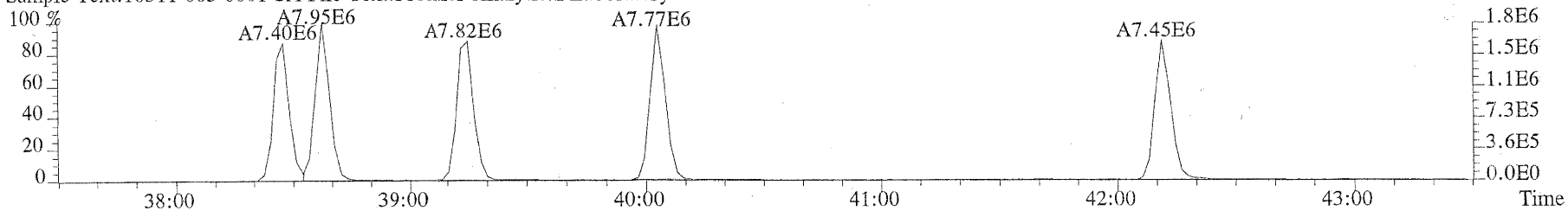
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



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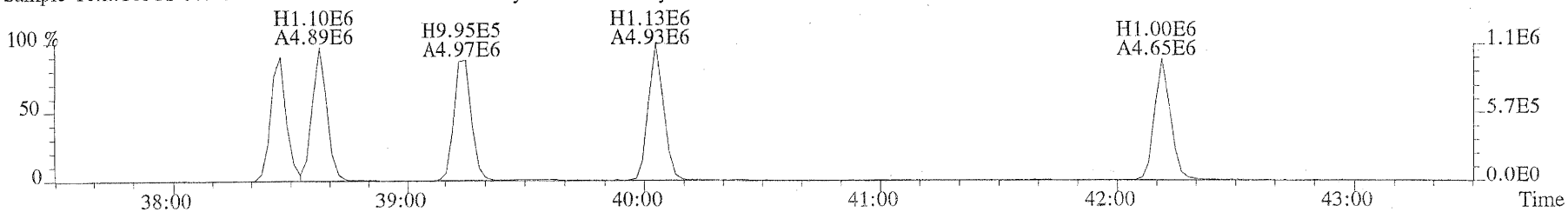
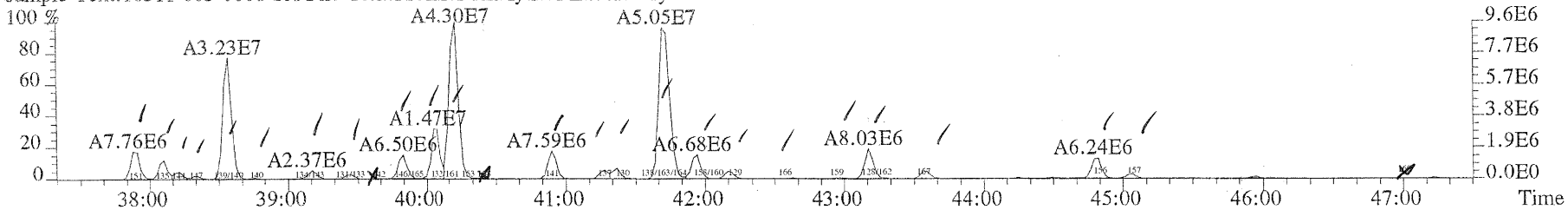
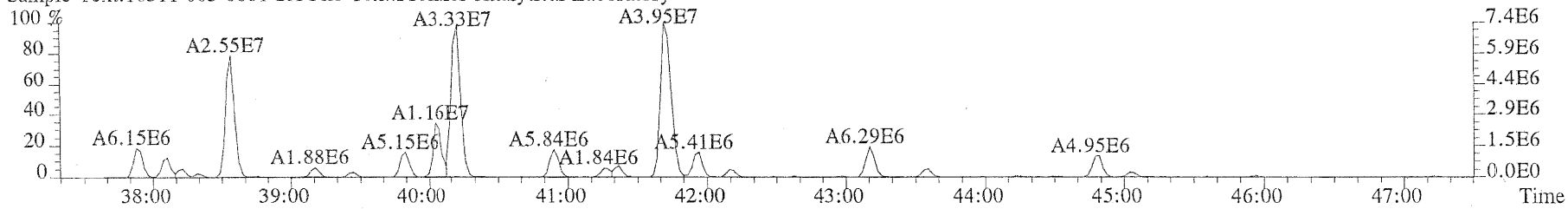
339.9178 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
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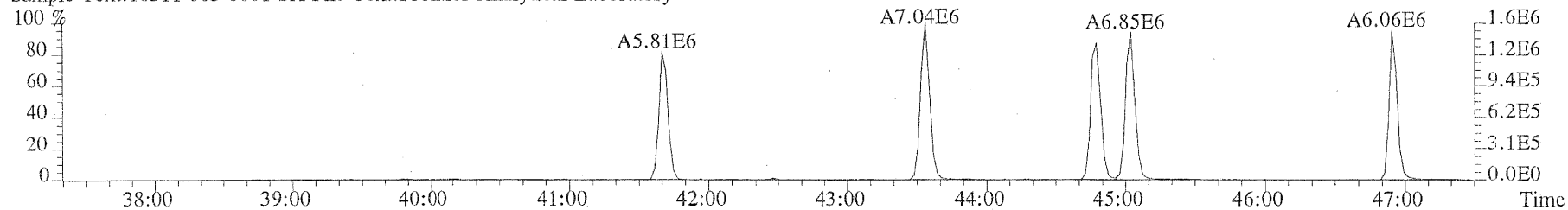
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



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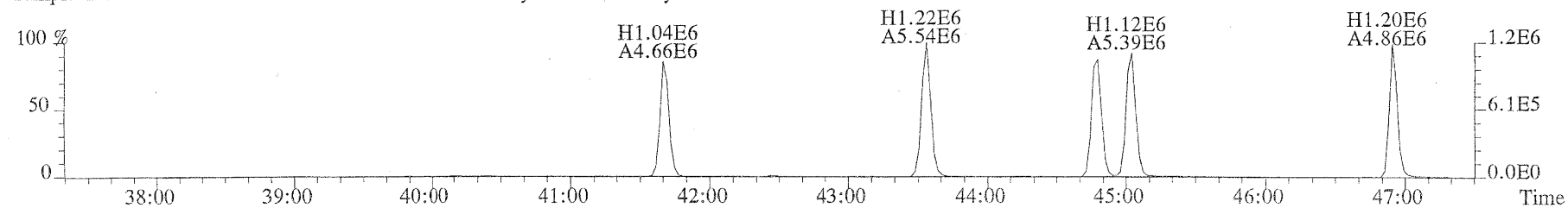
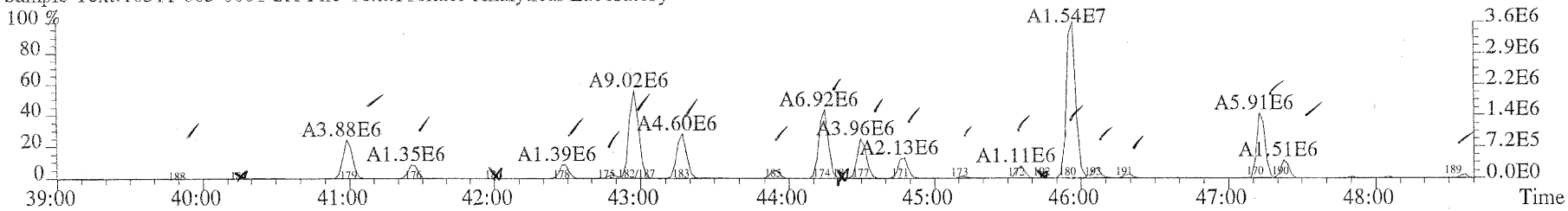
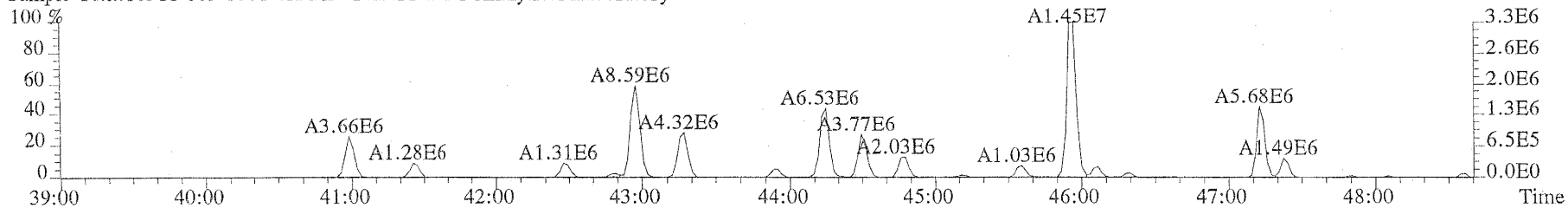
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



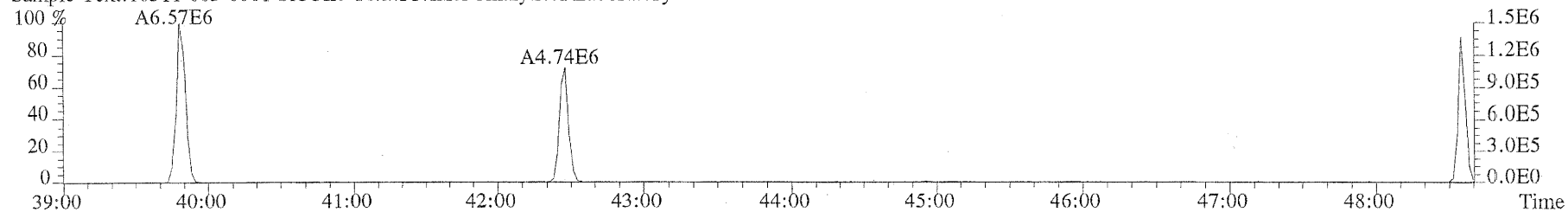
File:05JAN17Z #1-413 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



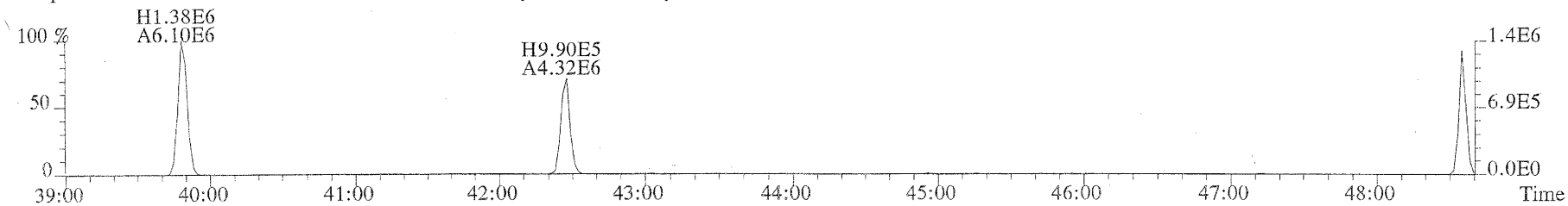
File:05JAN17Z #1-413 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



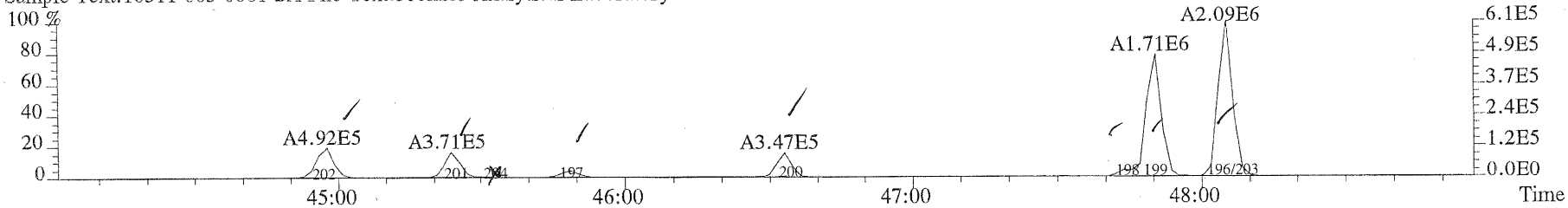
File:05JAN17Z #1-413 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



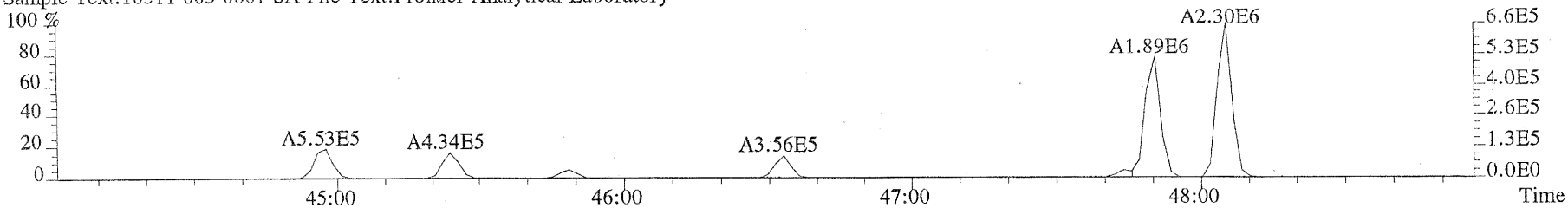
File:05JAN17Z #1-413 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



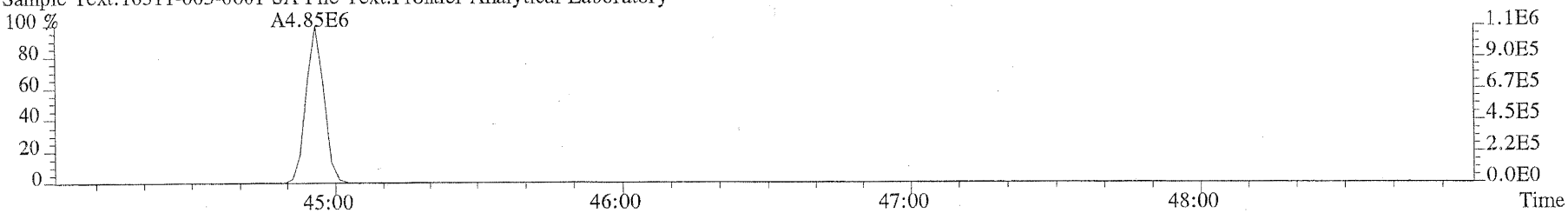
File:05JAN17Z #1-413 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



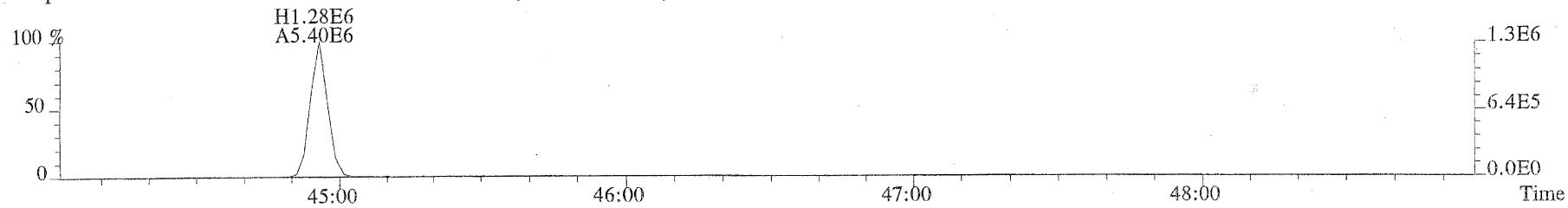
File:05JAN17Z #1-413 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



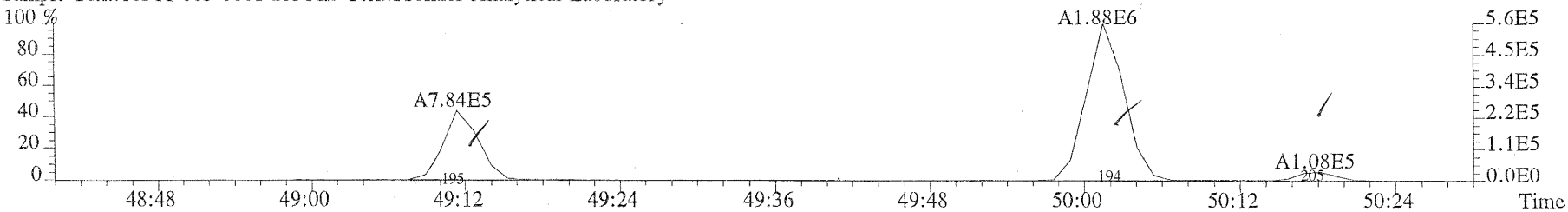
File:05JAN17Z #1-413 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



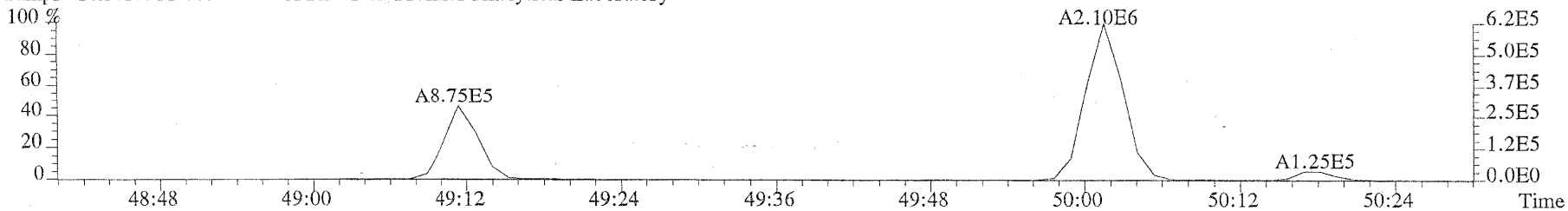
File:05JAN17Z #1-413 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



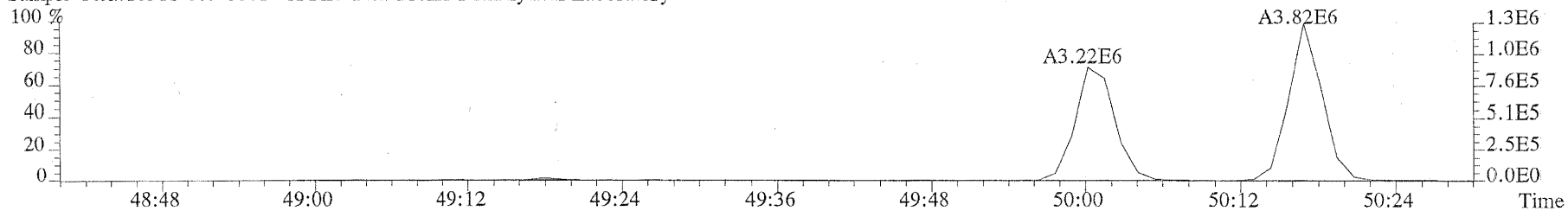
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



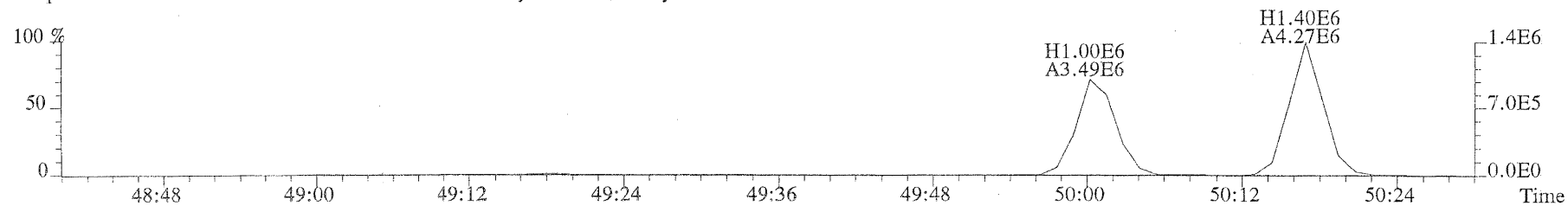
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



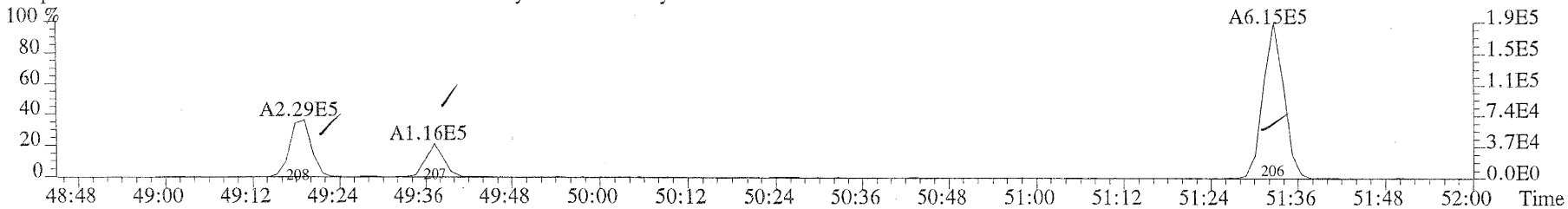
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



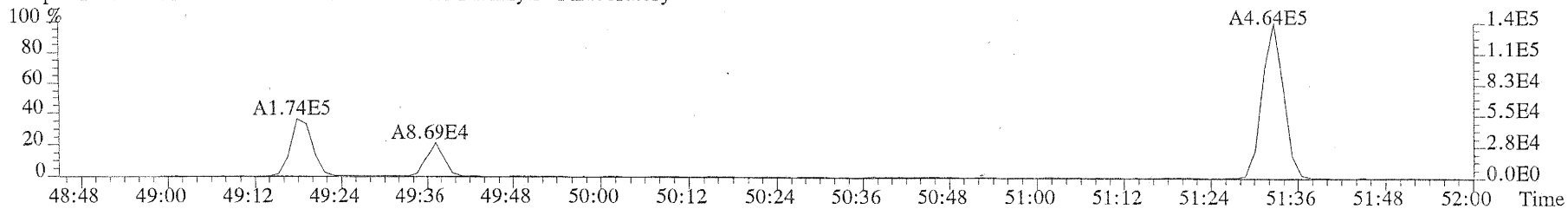
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



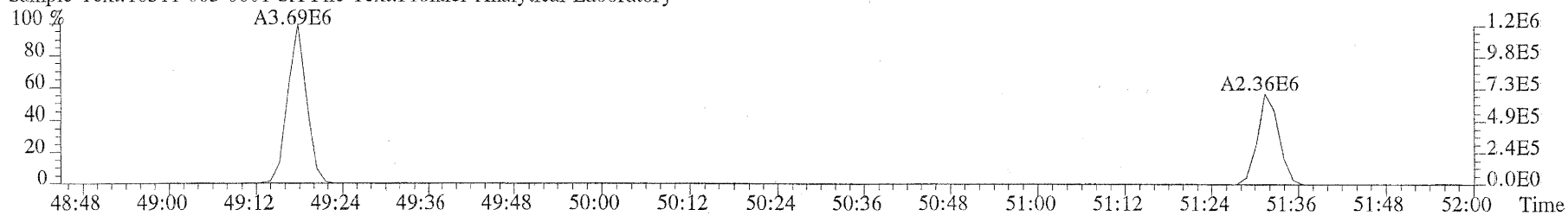
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



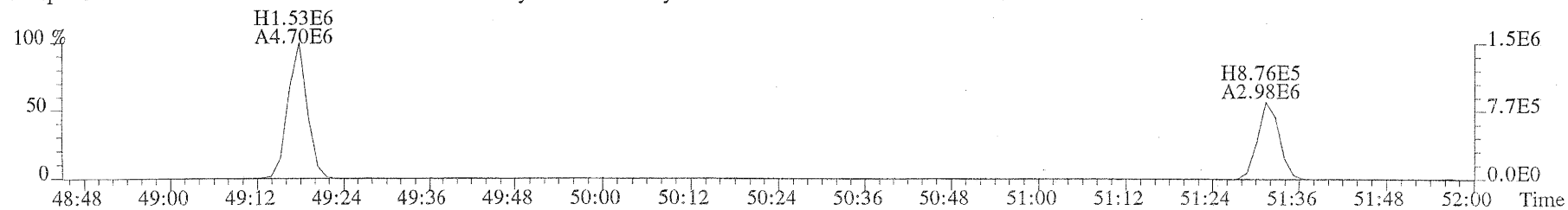
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



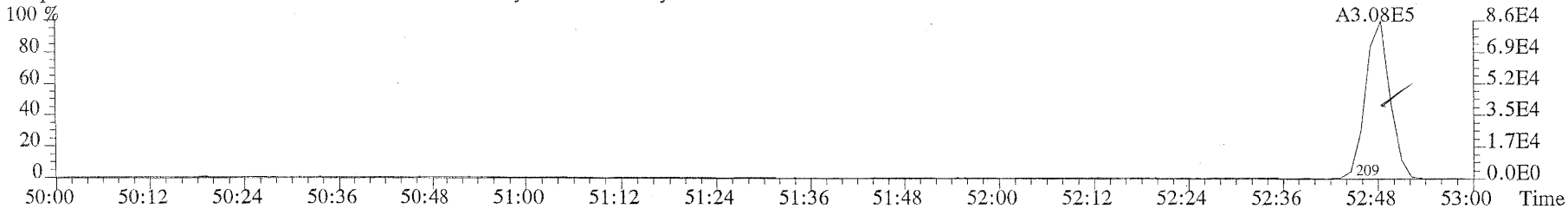
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



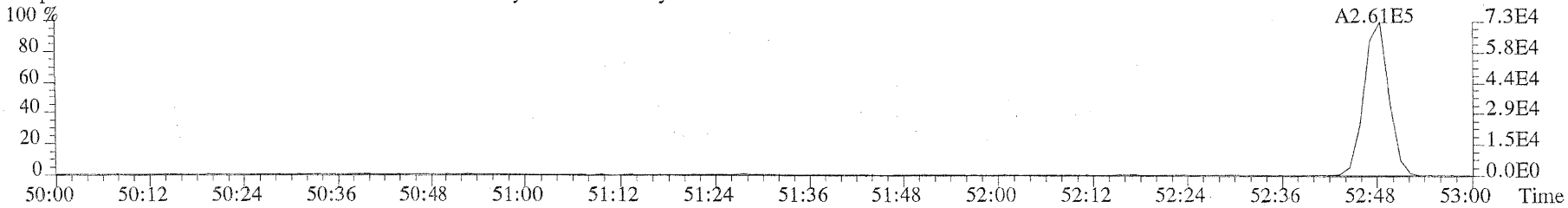
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



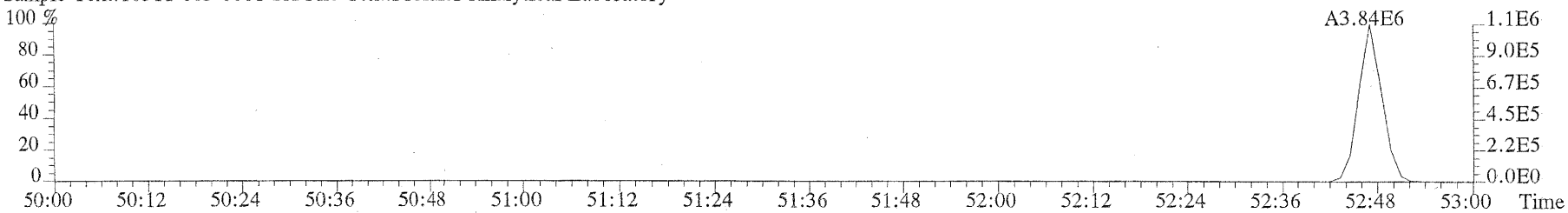
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



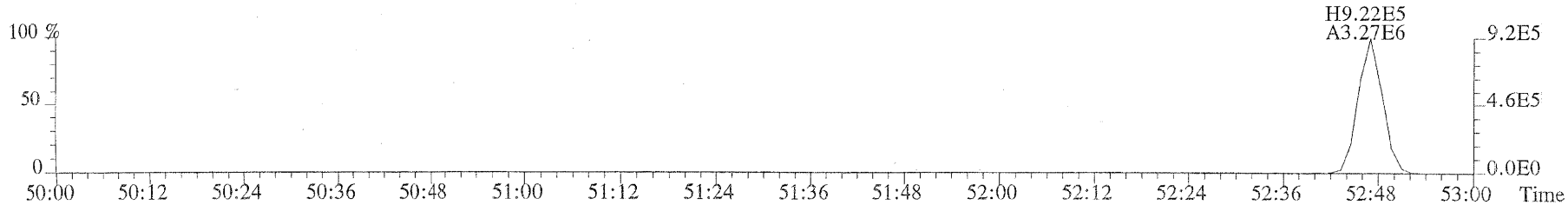
File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:59:26 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-003-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:59:26 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:10311-003-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 22:59:26 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:10311-003-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10311-004-0001-SA Filename: 05JAN17Z Sam:9 Acquired: 5-JAN-17 18:07:48 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR-CA-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.090

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.14e+06	3.02 y	14:33	0.92	51.1		-	-	*	
13C-PCB-1	4.79e+07	3.10 y	14:33	1.09	1820					92.7
PCB-2	3.13e+05	3.08 y	16:47	0.87	14.1		-	-	*	
PCB-3	1.02e+06	3.09 y	17:00	0.92	41.6		-	-	*	
13C-PCB-3	5.26e+07	3.21 y	16:59	1.14	1920					97.9
PCB-4	4.56e+06	1.47 y	18:15	1.17	261		-	-	*	
PCB-10	5.50e+05	1.57 y	18:17	0.99	29.1		-	-	*	
13C-PCB-4	2.93e+07	1.57 y	18:13	0.62	1960					99.8
PCB-9	1.33e+06	1.59 y	19:57	1.11	61.9		-	-	*	
PCB-7	1.56e+06	1.58 y	19:58	1.13	72.1		-	-	*	
PCB-6	1.19e+07	1.55 y	20:34	1.11	559		-	-	*	
PCB-8	2.82e+07	1.54 y	20:56	1.12	1310		-	-	*	
PCB-5	2.34e+06	1.39 y	21:00	1.08	112		-	-	*	
PCB-14	*	* n	NotFnd	1.11	*		800	990	0.799	
PCB-11	1.21e+06	1.41 y	23:08	1.08	58.4		-	-	*	
PCB-13	2.97e+06	1.36 y	23:29	1.09	142		-	-	*	
PCB-12	1.58e+06	1.50 y	23:30	1.06	78.0		-	-	*	
PCB-15	1.55e+07	1.56 y	23:49	1.00	659		-	-	*	
13C-PCB-15	4.61e+07	1.60 y	23:47	1.03	1860					94.8
PCB-19	2.58e+06	1.06 y	22:08	0.95	192		-	-	*	
PCB-30	*	* n	NotFnd	1.39	*		900	850	0.905	
PCB-18	3.70e+07	1.04 y	23:42	0.97	2720		-	-	*	
PCB-17	1.84e+07	1.04 y	23:53	1.04	1260		-	-	*	
PCB-27	2.78e+06	1.04 y	24:24	1.37	144		-	-	*	
PCB-24	1.23e+06	1.06 y	24:25	1.37	64.0		-	-	*	
PCB-16	1.20e+07	0.98 y	24:53	1.12	763		-	-	*	
PCB-32	1.46e+07	1.12 y	24:54	1.25	834		-	-	*	
13C-PCB-19	2.77e+07	1.08 y	22:08	0.65	1770					90.0
13C-PCB-9	4.72e+07	1.58 y	19:55	-	10.1					
PCB-34	7.43e+05	1.18 y	25:40	0.86	64.9		-	-	*	
PCB-23	1.01e+05	1.16 y	25:45	0.99	7.64		-	-	*	
PCB-29	4.89e+05	1.09 y	25:59	1.01	36.5		-	-	*	
PCB-26	2.27e+07	1.04 y	26:12	0.98	1740		-	-	*	
PCB-25	1.31e+07	1.06 y	26:21	1.19	827		-	-	*	
PCB-31	7.44e+07	1.03 y	26:41	1.04	5380		-	-	*	
PCB-28	9.15e+07	1.06 y	26:47	1.10	6260		-	-	*	
PCB-20	4.09e+07	1.03 y	27:23	1.04	2970		-	-	*	Co-elute PCB 21/33
PCB-21	4.09e+07	1.03 y	27:23	1.04	2970		-	-	*	Co-elute PCB 20/33
PCB-33	4.09e+07	1.03 y	27:23	1.04	2970		-	-	*	Co-elute PCB 20/21
PCB-22	2.46e+07	1.05 y	27:47	1.03	1790		-	-	*	
PCB-36	*	* n	NotFnd	0.99	*		440	430	1.07	
PCB-39	*	* n	NotFnd	0.99	*		440	430	1.07	
PCB-38	*	* n	NotFnd	1.00	*		440	430	1.05	
PCB-35	*	* n	NotFnd	0.94	*		440	430	1.13	
PCB-37	1.05e+06	0.98 y	30:22	1.06	75.0		-	-	*	
13C-PCB-37	2.61e+07	1.10 y	30:34	1.18	1880					95.8

FAL ID: 10311-004-0001-SA Filename: 05JAN17Z Sam:9 Acquired: 5-JAN-17 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR-CA-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.090

PCB-54	1.23e+05	0.83	y	25:42	0.99	8.07		-	-	*	
PCB-50	1.87e+05	0.73	y	26:49	0.77	15.9		-	-	*	
PCB-53	6.15e+06	0.78	y	27:24	0.77	522		-	-	*	
PCB-51	2.02e+06	0.77	y	27:44	0.78	168		-	-	*	
PCB-45	5.11e+06	0.79	y	28:09	0.68	488		-	-	*	
PCB-46	1.92e+06	0.82	y	28:36	0.64	195		-	-	*	
PCB-52	6.21e+07	0.78	y	29:04	1.01	3990		-	-	*	Co-elute PCB 69
PCB-69	6.21e+07	0.78	y	29:04	1.01	3990		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	0.89	*		450	480	0.724	
PCB-43	3.82e+07	0.78	y	29:21	0.76	3270		-	-	*	Co-elute PCB 49
PCB-49	3.82e+07	0.78	y	29:21	0.76	3270		-	-	*	Co-elute PCB 43
PCB-47	1.32e+07	0.78	y	29:34	0.95	904		-	-	*	
PCB-48	7.65e+06	0.79	y	29:40	0.96	518		-	-	*	Co-elute PCB 75
PCB-75	7.65e+06	0.79	y	29:40	0.96	518		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.00	*		450	480	0.649	
PCB-62	*	*	n	NotFnd	0.93	*		450	480	0.698	
PCB-44	2.50e+07	0.78	y	30:22	0.69	2350		-	-	*	
PCB-42	1.06e+07	0.79	y	30:37	0.94	733		-	-	*	Co-elute PCB 59
PCB-59	1.06e+07	0.79	y	30:37	0.94	733		-	-	*	Co-elute PCB 42
PCB-72	2.53e+07	0.78	y	31:15	1.02	1620		-	-	*	Co-elute PCB 41/71/64
PCB-41	2.53e+07	0.78	y	31:15	1.02	1620		-	-	*	Co-elute PCB 72/71/64
PCB-71	2.53e+07	0.78	y	31:15	1.02	1620		-	-	*	Co-elute PCB 72/41/64
PCB-64	2.53e+07	0.78	y	31:15	1.02	1620		-	-	*	Co-elute PCB 72/41/71
PCB-68	3.38e+05	0.73	y	31:33	1.10	20.0		-	-	*	
PCB-40	2.95e+06	0.78	y	31:43	0.59	325		-	-	*	
PCB-57	3.83e+05	0.80	y	31:58	1.04	24.0		-	-	*	
PCB-67	2.67e+06	0.78	y	32:15	0.98	178		-	-	*	
PCB-58	3.87e+05	0.78	y	32:20	1.11	22.8		-	-	*	
PCB-63	3.21e+06	0.79	y	32:29	1.03	204		-	-	*	
PCB-74	3.47e+07	0.77	y	32:45	1.07	2110		-	-	*	
PCB-61	8.16e+07	0.78	y	32:56	1.12	4750		-	-	*	Co-elute PCB 70
PCB-70	8.16e+07	0.78	y	32:56	1.12	4750		-	-	*	Co-elute PCB 61
PCB-76	6.96e+07	0.77	y	33:08	1.07	4250		-	-	*	Co-elute PCB 66
PCB-66	6.96e+07	0.77	y	33:08	1.07	4250		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.19	*		450	480	0.547	
PCB-55	1.28e+06	0.81	y	33:37	1.06	78.6		-	-	*	
13C-PCB-54	3.02e+07	0.81	y	25:40	1.05	2430					124
PCB-104	*	*	n	NotFnd	1.04	*		310	250	1.02	
PCB-96	2.92e+05	1.62	y	31:32	0.98	38.2		-	-	*	
PCB-103	6.91e+05	1.58	y	31:58	0.83	106		-	-	*	
PCB-100	4.20e+05	1.59	y	32:16	0.82	65.1		-	-	*	
PCB-94	3.18e+05	1.43	y	32:41	0.68	59.5		-	-	*	
PCB-98	*	*	n	NotFnd	0.87	*		310	250	1.22	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.87	*		310	250	1.22	Co-elute PCB 98
PCB-95	5.74e+07	1.60	y	33:12	0.71	10300		-	-	*	
PCB-93	*	*	n	NotFnd	0.67	*		310	250	1.58	
PCB-88	9.96e+06	1.61	y	33:34	0.77	1650		-	-	*	Co-elute PCB 91
PCB-91	9.96e+06	1.61	y	33:34	0.77	1650		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.96	*		310	250	1.11	
13C-PCB-104	1.54e+07	1.55	y	30:11	0.92	1420					72.3
13C-PCB-28	3.96e+07	1.10	y	26:46	1.30	2590					132
13C-PCB-52	2.32e+07	0.80	y	29:03	-	6.97					

PCB-56	3.80e+07	0.77	y	34:06	1.01	2240		-	-	*	Co-elute PCB 60
PCB-60	3.80e+07	0.77	y	34:06	1.01	2240		-	-	*	Co-elute PCB 56
PCB-79	1.25e+06	0.78	y	35:06	1.04	72.1		-	-	*	
PCB-78	3.33e+05	0.87	y	35:40	0.99	20.1		-	-	*	
PCB-81	1.70e+06	0.76	y	36:17	1.06	96.5		-	-	*	
13C-PCB-81	3.27e+07	0.79	y	36:16	1.07	2200					112
PCB-77	5.58e+06	0.79	y	36:50	0.98	338		-	-	*	
13C-PCB-77	3.33e+07	0.80	y	36:49	1.08	2210					113
PCB-155	*	*	n	NotFnd	0.98	*		300	290	0.462	
PCB-150	2.04e+05	1.25	y	35:32	0.89	15.1		-	-	*	
PCB-152	1.03e+05	1.10	y	35:58	0.87	7.84		-	-	*	
PCB-145	4.23e+04	1.23	y	36:23	0.85	3.28	J	-	-	*	
PCB-136	1.23e+07	1.28	y	36:41	0.87	939		-	-	*	
PCB-148	*	*	n	NotFnd	0.64	*		300	290	0.709	
PCB-154	1.34e+06	1.26	y	37:17	0.77	115		-	-	*	
13C-PCB-155	2.97e+07	1.26	y	34:20	1.11	1920					97.8
13C-PCB-111	3.08e+07	1.57	y	36:25	1.14	1940					99.0
13C-PCB-101	2.73e+07	1.60	y	34:46	-	8.76					
PCB-84	3.32e+07	1.57	y	34:25	0.79	2900		-	-	*	Co-elute PCB 92
PCB-92	3.32e+07	1.57	y	34:25	0.79	2900		-	-	*	Co-elute PCB 84
PCB-89	7.65e+05	1.61	y	34:36	0.76	69.5		-	-	*	
PCB-90	9.00e+07	1.54	y	34:47	0.87	7140		-	-	*	Co-elute PCB 101
PCB-101	9.00e+07	1.54	y	34:47	0.87	7140		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.99	*		450	310	0.631	
PCB-99	4.13e+07	1.55	y	35:06	0.97	2940		-	-	*	
PCB-119	3.45e+06	1.51	y	35:32	1.13	210		-	-	*	
PCB-83	4.13e+06	1.55	y	35:40	0.87	325		-	-	*	Co-elute PCB 112
PCB-112	4.13e+06	1.55	y	35:40	0.87	325		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.05	*		450	310	0.594	
PCB-97	2.33e+07	1.56	y	36:01	0.95	1690		-	-	*	
PCB-86	*	*	n	NotFnd	0.76	*		450	310	0.817	
PCB-125	3.18e+07	1.52	y	36:17	1.00	2190		-	-	*	Co-elute PCB 87/117
PCB-87	3.18e+07	1.52	y	36:17	1.00	2190		-	-	*	Co-elute PCB 125/117
PCB-117	3.18e+07	1.52	y	36:17	1.00	2190		-	-	*	Co-elute PCB 125/87
PCB-111	1.50e+06	1.43	y	36:27	1.21	85.4		-	-	*	Co-elute PCB 115
PCB-115	1.50e+06	1.43	y	36:27	1.21	85.4		-	-	*	Co-elute PCB 111
PCB-85	1.23e+07	1.57	y	36:32	0.95	890		-	-	*	Co-elute PCB 116
PCB-116	1.23e+07	1.57	y	36:32	0.95	890		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.17	*		450	310	0.535	
PCB-110	1.09e+08	1.55	y	36:54	1.15	6480		-	-	*	
PCB-82	6.91e+06	1.54	y	37:29	0.66	724		-	-	*	
PCB-124	3.31e+06	1.54	y	38:09	0.92	248		-	-	*	
PCB-108	6.57e+06	1.52	y	38:19	1.02	442		-	-	*	Co-elute PCB 107
PCB-107	6.57e+06	1.52	y	38:19	1.02	442		-	-	*	Co-elute PCB 108
PCB-123	1.34e+06	1.53	y	38:28	1.10	86.2		-	-	*	
13C-PCB-123	2.78e+07	1.58	y	38:28	1.05	2180					111
PCB-118	8.29e+07	1.52	y	38:39	0.92	6070		-	-	*	Co-elute PCB 106
PCB-106	8.29e+07	1.52	y	38:39	0.92	6070		-	-	*	Co-elute PCB 118
13C-PCB-118	2.91e+07	1.63	y	38:37	1.10	2190					111
PCB-114	2.05e+06	1.59	y	39:15	0.95	148		-	-	*	
13C-PCB-114	2.88e+07	1.62	y	39:14	1.05	2270					115
PCB-122	9.97e+05	1.52	y	39:22	1.02	67.3		-	-	*	
PCB-105	2.98e+07	1.55	y	40:05	0.99	2050		-	-	*	
13C-PCB-105	2.87e+07	1.60	y	40:03	1.06	2230					114

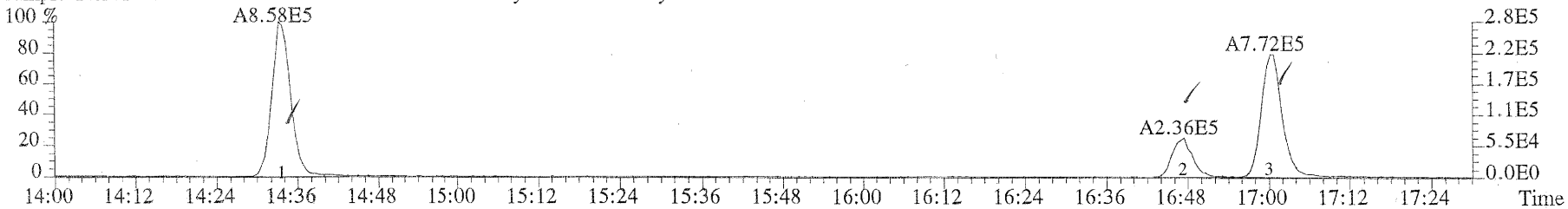
PCB-127	*	*	n	NotFnd	0.92	*	500	390	0.794	
PCB-126	2.16e+05	1.61	y	42:11	1.00	15.1	-	-	*	
13C-PCB-126	2.81e+07	1.58	y	42:11	1.00	2310				118
PCB-151	1.37e+07	1.27	y	37:53	0.67	1430	-	-	*	
PCB-135	8.71e+06	1.27	y	38:04	0.72	854	-	-	*	
PCB-144	3.13e+06	1.28	y	38:11	0.67	325	-	-	*	
PCB-147	1.50e+06	1.26	y	38:19	0.76	138	-	-	*	
PCB-139	5.75e+07	1.29	y	38:34	0.76	5330	-	-	*	Co-elute PCB 149
PCB-149	5.75e+07	1.29	y	38:34	0.76	5330	-	-	*	Co-elute PCB 139
PCB-140	6.03e+05	1.26	y	38:46	0.73	57.6	-	-	*	
PCB-143	3.79e+06	1.26	y	39:10	0.69	385	-	-	*	Co-elute PCB 134
PCB-134	3.79e+06	1.26	y	39:10	0.69	385	-	-	*	Co-elute PCB 143
PCB-131	2.21e+06	1.28	y	39:27	0.71	219	-	-	*	Co-elute PCB 133
PCB-133	2.21e+06	1.28	y	39:27	0.71	219	-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.62	*	560	540	1.42	
PCB-165	1.26e+07	1.25	y	39:50	0.85	1040	-	-	*	Co-elute PCB 146
PCB-146	1.26e+07	1.25	y	39:50	0.85	1040	-	-	*	Co-elute PCB 165
PCB-161	2.42e+07	1.43	y	40:03	0.79	2160	-	-	*	Co-elute PCB 132
PCB-132	2.42e+07	1.43	y	40:03	0.79	2160	-	-	*	Co-elute PCB 161
PCB-153	7.48e+07	1.22	y	40:13	0.84	6260	-	-	*	
PCB-168	2.11e+05	1.17	y	40:24	0.91	16.3	-	-	*	
PCB-141	1.20e+07	1.28	y	40:54	0.74	1150	-	-	*	
PCB-137	3.59e+06	1.27	y	41:15	0.65	388	-	-	*	
PCB-130	4.39e+06	1.24	y	41:22	0.69	449	-	-	*	
PCB-138	8.52e+07	1.25	y	41:42	0.95	6290	-	-	*	Co-elute PCB 163/164
PCB-163	8.52e+07	1.25	y	41:42	0.95	6290	-	-	*	Co-elute PCB 138/164
PCB-164	8.52e+07	1.25	y	41:42	0.95	6290	-	-	*	Co-elute PCB 138/163
PCB-158	1.02e+07	1.26	y	41:57	0.94	761	-	-	*	Co-elute PCB 160
PCB-160	1.02e+07	1.26	y	41:57	0.94	761	-	-	*	Co-elute PCB 158
PCB-129	2.92e+06	1.23	y	42:10	0.59	348	-	-	*	
PCB-166	3.67e+05	1.10	y	42:38	0.90	28.6	-	-	*	
PCB-159	6.71e+05	1.31	y	42:57	0.96	48.9	-	-	*	
PCB-128	1.27e+07	1.27	y	43:11	0.81	1100	-	-	*	Co-elute PCB 162
PCB-162	1.27e+07	1.27	y	43:11	0.81	1100	-	-	*	Co-elute PCB 128
PCB-167	3.51e+06	1.30	y	43:34	0.88	271	-	-	*	
13C-PCB-167	2.90e+07	1.27	y	43:34	1.16	2070				105
PCB-156	9.42e+06	1.27	y	44:48	0.92	709	-	-	*	
13C-PCB-156	2.82e+07	1.26	y	44:48	1.11	2110				107
PCB-157	2.01e+06	1.27	y	45:03	0.94	146	-	-	*	
13C-PCB-157	2.87e+07	1.26	y	45:03	1.14	2080				106
PCB-169	*	*	n	NotFnd	0.89	*	560	540	0.906	
13C-PCB-169	2.61e+07	1.25	y	46:54	1.10	1960				99.9

FAL ID: 10311-004-0001-SA Filename: 05JAN17Z Sam:9 Acquired: 5-JAN-17 18:07:48 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR-CA-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.090

PCB-188	5.95e+04	1.02	y	39:50	1.04	4.01		-	-	*	
13C-PCB-188	2.81e+07	1.08	y	39:48	1.22	1910					97.0
PCB-184	*	*	n	NotFnd	1.08	*		560	510	0.750	
PCB-179	9.22e+06	1.05	y	40:59	1.03	694		-	-	*	
PCB-176	3.13e+06	1.07	y	41:25	1.01	240		-	-	*	
PCB-186	*	*	n	NotFnd	1.00	*		560	510	0.807	
PCB-178	3.41e+06	1.06	y	42:28	0.73	359		-	-	*	
PCB-175	6.81e+05	1.05	y	42:49	0.76	69.0		-	-	*	
PCB-187	2.15e+07	1.06	y	42:57	0.84	1980		-	-	*	Co-elute PCB 182
PCB-182	2.15e+07	1.06	y	42:57	0.84	1980		-	-	*	Co-elute PCB 187
PCB-183	1.04e+07	1.05	y	43:17	0.83	973		-	-	*	
PCB-185	1.73e+06	1.03	y	43:53	0.77	174		-	-	*	
PCB-174	1.59e+07	1.05	y	44:15	0.76	1630		-	-	*	
PCB-181	*	*	n	NotFnd	0.77	*		560	510	1.05	
PCB-177	9.15e+06	1.04	y	44:30	0.69	1020		-	-	*	
PCB-171	4.59e+06	1.06	y	44:46	0.73	486		-	-	*	
PCB-173	3.70e+05	1.08	y	45:11	0.67	43.0		-	-	*	
PCB-172	2.59e+06	1.08	y	45:35	0.69	289		-	-	*	
PCB-192	*	*	n	NotFnd	0.91	*		560	510	0.893	
PCB-180	3.44e+07	1.06	y	45:55	0.92	2890		-	-	*	
PCB-193	2.30e+06	1.04	y	46:07	0.97	182		-	-	*	
PCB-191	8.29e+05	1.07	y	46:18	0.97	66.2		-	-	*	
PCB-170	1.37e+07	1.06	y	47:13	0.68	1540		-	-	*	
PCB-190	3.68e+06	1.05	y	47:22	0.93	305		-	-	*	
PCB-189	6.73e+05	1.14	y	48:37	0.99	58.8		-	-	*	
13C-PCB-189	2.27e+07	1.07	y	48:35	1.10	1710					86.9
PCB-202	1.51e+06	0.89	y	44:58	0.86	145		-	-	*	
PCB-201	1.12e+06	0.91	y	45:24	0.86	107		-	-	*	
PCB-204	*	*	n	NotFnd	0.87	*		490	480	1.00	
PCB-197	3.35e+05	0.92	y	45:49	0.88	31.2		-	-	*	
PCB-200	9.80e+05	0.93	y	46:33	0.88	90.9		-	-	*	
PCB-198	2.53e+05	0.81	y	47:44	0.65	31.8		-	-	*	
PCB-199	5.48e+06	0.89	y	47:50	0.60	750		-	-	*	
PCB-203	6.56e+06	0.89	y	48:05	0.68	794		-	-	*	Co-elute PCB 196
PCB-196	6.56e+06	0.89	y	48:05	0.68	794		-	-	*	Co-elute PCB 203
13C-PCB-202	2.39e+07	0.92	y	44:56	1.09	1820					92.6
13C-PCB-178	1.88e+07	1.06	y	42:28	0.89	1750					89.0
13C-PCB-138	2.37e+07	1.24	y	41:40	-	8.60					
PCB-195	2.23e+06	0.92	y	49:11	0.70	307		-	-	*	
PCB-194	5.65e+06	0.92	y	50:02	0.75	722		-	-	*	
PCB-205	3.53e+05	0.95	y	50:17	0.98	34.6		-	-	*	
13C-PCB-205	2.04e+07	0.92	y	50:17	1.24	1990					101
PCB-208	6.51e+05	1.29	y	49:19	0.90	68.9		-	-	*	
13C-PCB-208	2.06e+07	0.80	y	49:18	1.34	1870					95.1
PCB-207	3.57e+05	1.29	y	49:37	0.98	41.7		-	-	*	
PCB-206	1.85e+06	1.34	y	51:33	0.92	290		-	-	*	
13C-PCB-206	1.36e+07	0.79	y	51:31	0.96	1710					87.0
PCB-209	8.16e+05	1.19	y	52:47	0.97	93.3		-	-	*	
13C-PCB-209	1.76e+07	1.22	y	52:46	1.40	1530					78.0
13C-PCB-194	1.62e+07	0.92	y	50:00	-	7.95					

Analyst: _____ Date: 1/6/17

File:05JAN17Z #1-783 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-783 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
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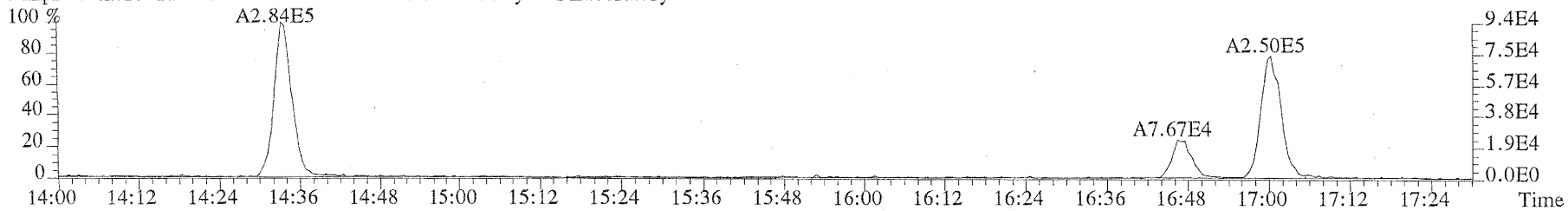
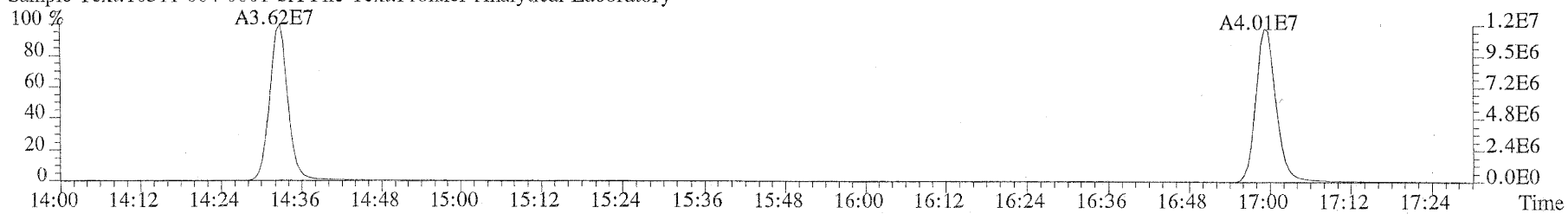
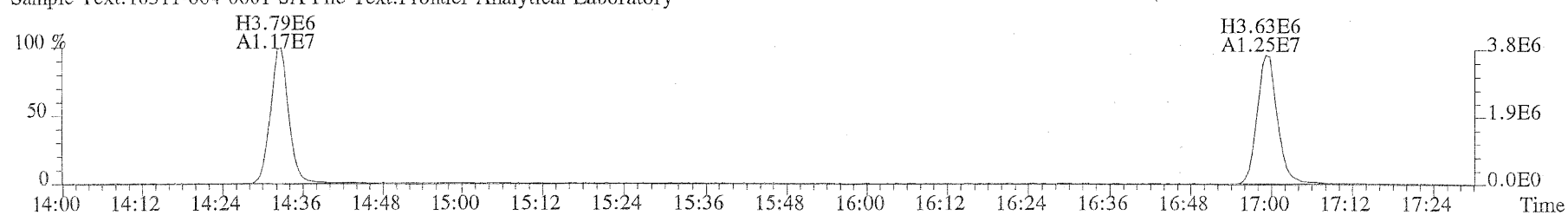
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



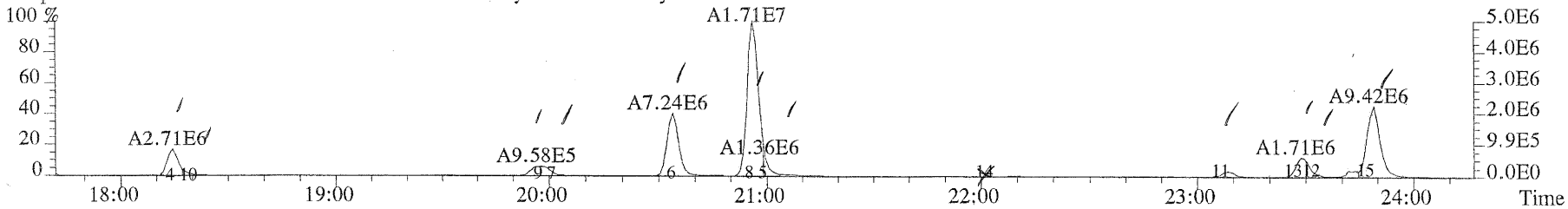
File:05JAN17Z #1-783 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



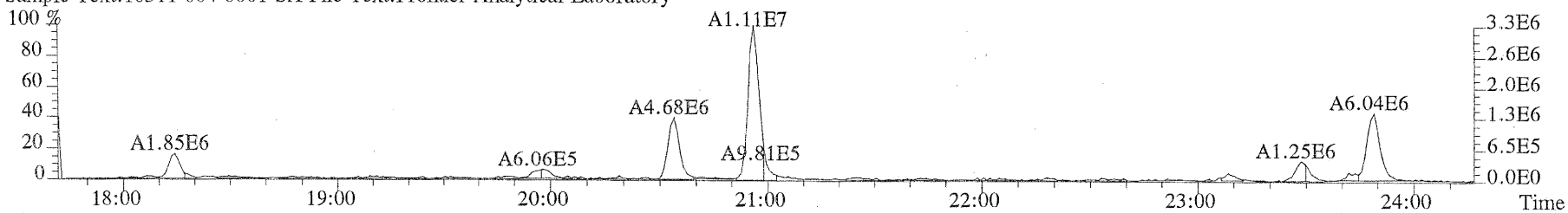
File:05JAN17Z #1-783 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



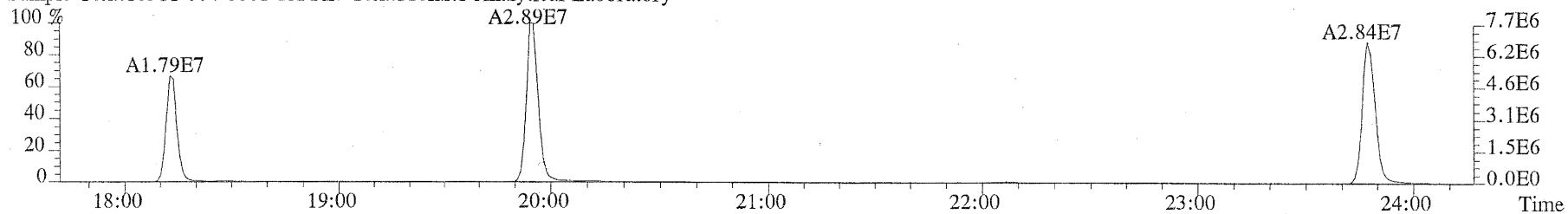
File:05JAN17Z #1-509 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



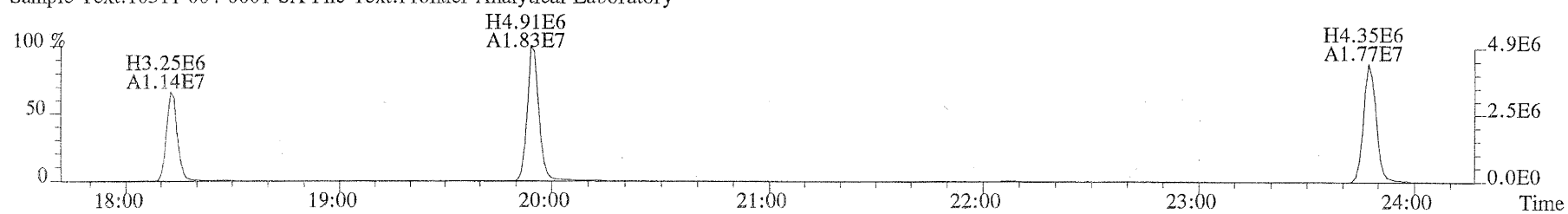
File:05JAN17Z #1-509 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:9 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



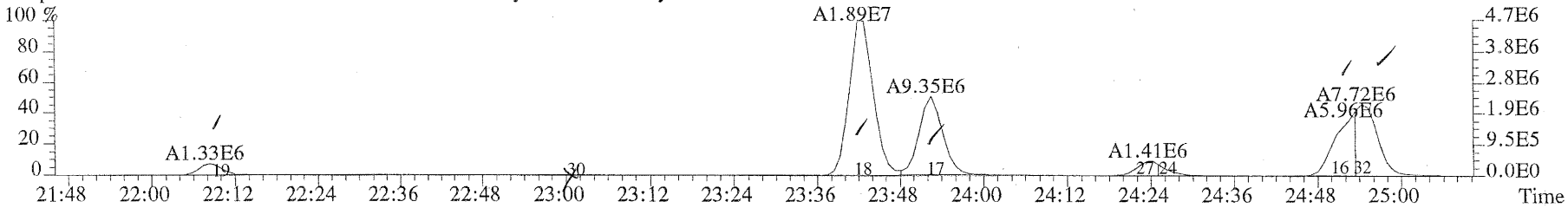
File:05JAN17Z #1-509 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



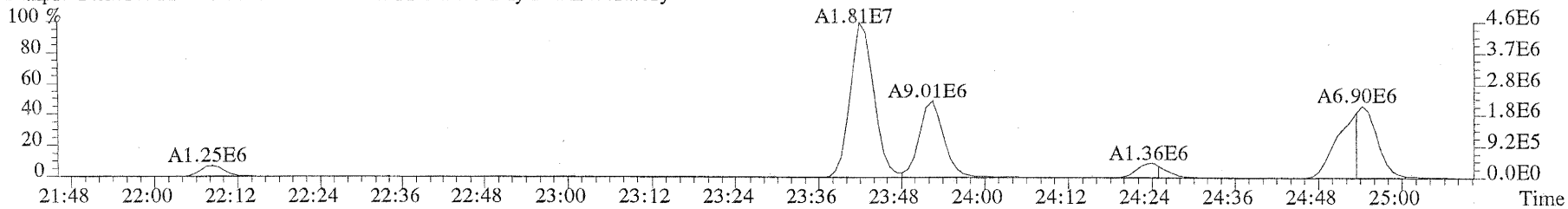
File:05JAN17Z #1-509 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



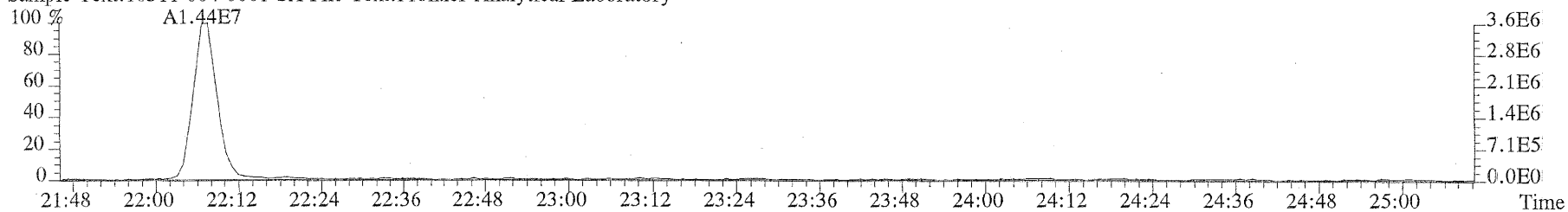
File:05JAN17Z #1-509 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



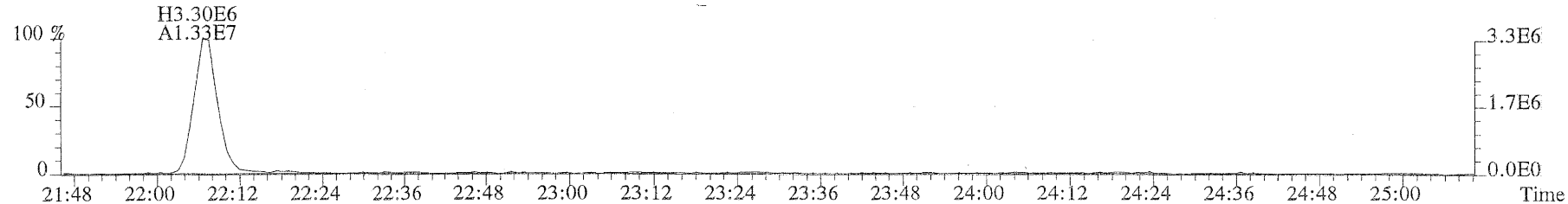
File:05JAN17Z #1-509 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



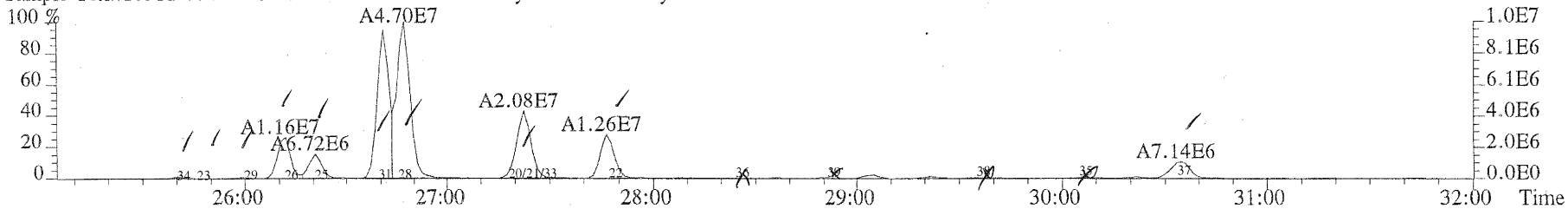
File:05JAN17Z #1-509 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



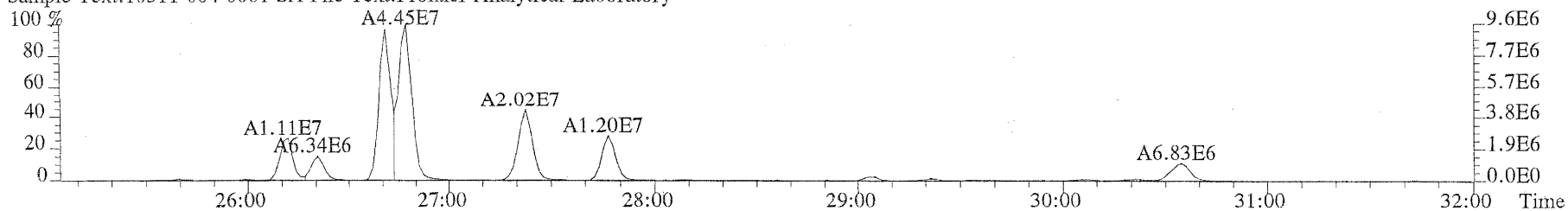
File:05JAN17Z #1-509 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



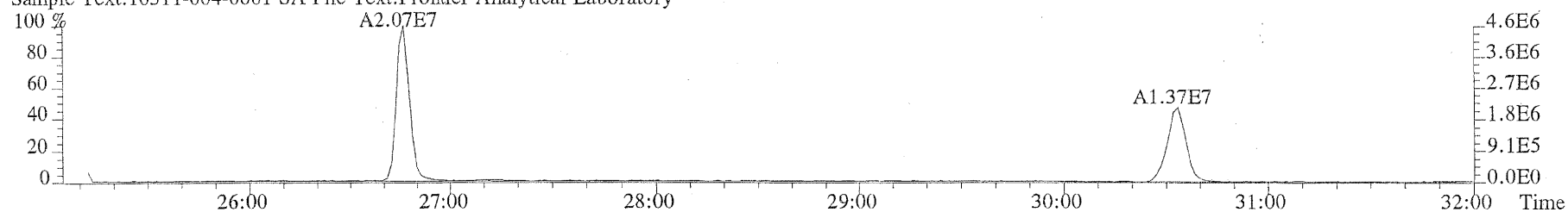
File:05JAN17Z #1-407 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



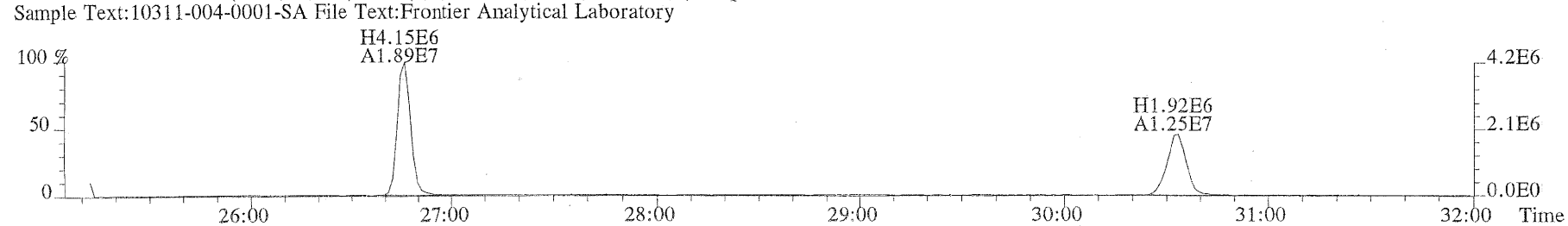
File:05JAN17Z #1-407 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



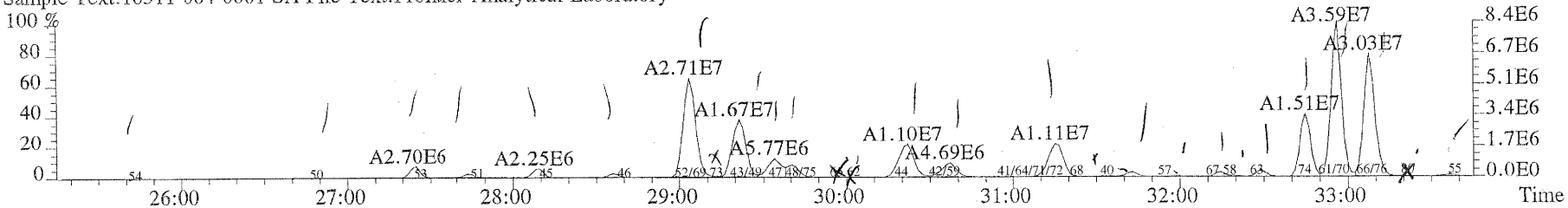
File:05JAN17Z #1-407 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



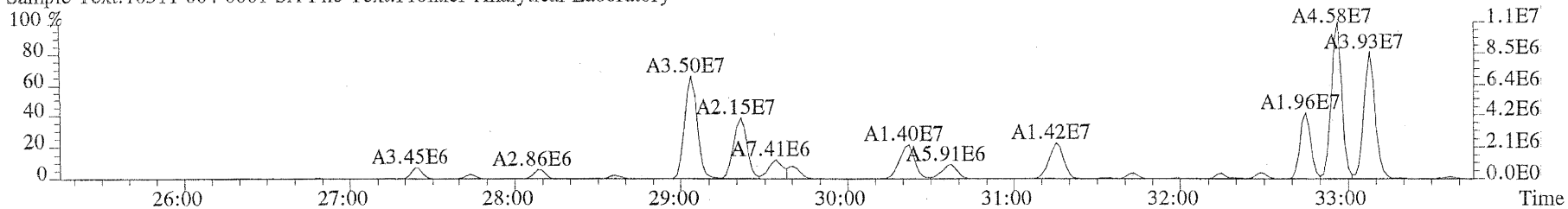
File:05JAN17Z #1-407 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



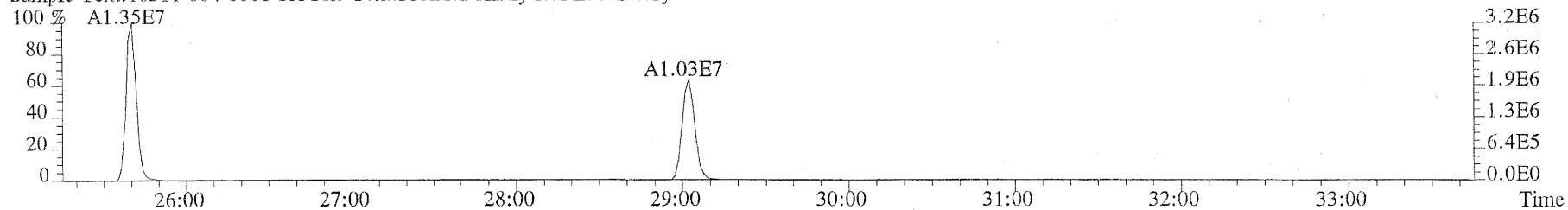
File:05JAN17Z #1-407 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



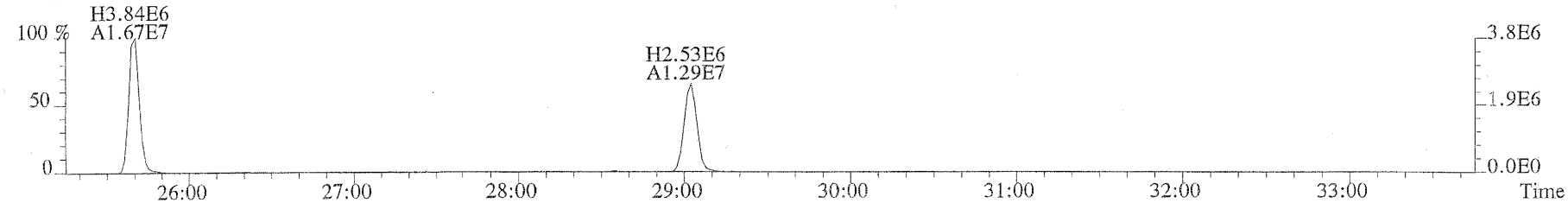
File:05JAN17Z #1-407 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



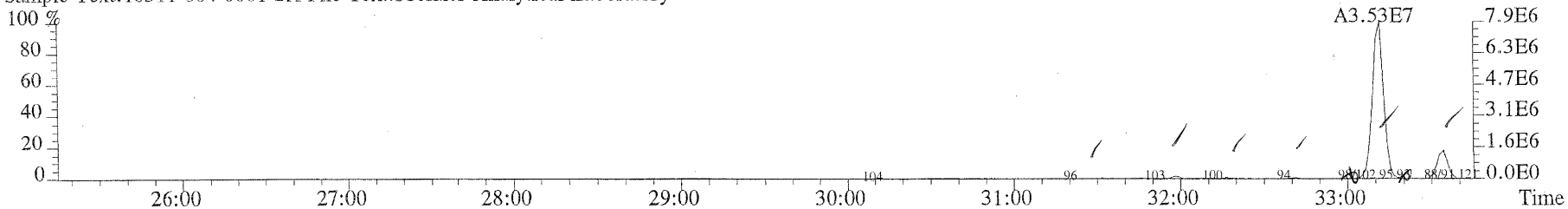
File:05JAN17Z #1-407 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



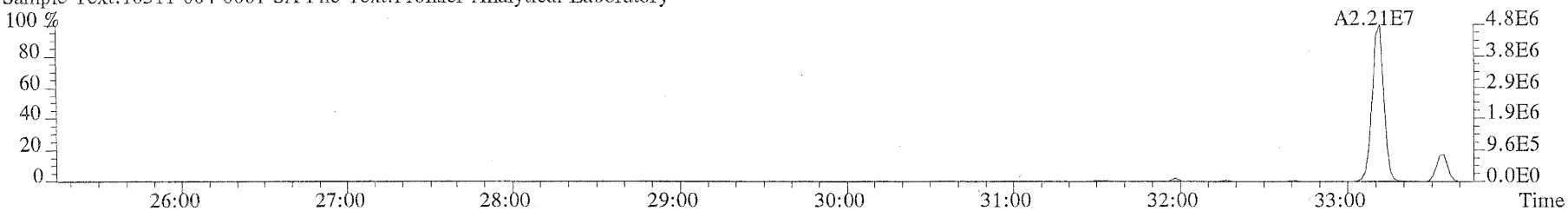
File:05JAN17Z #1-407 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



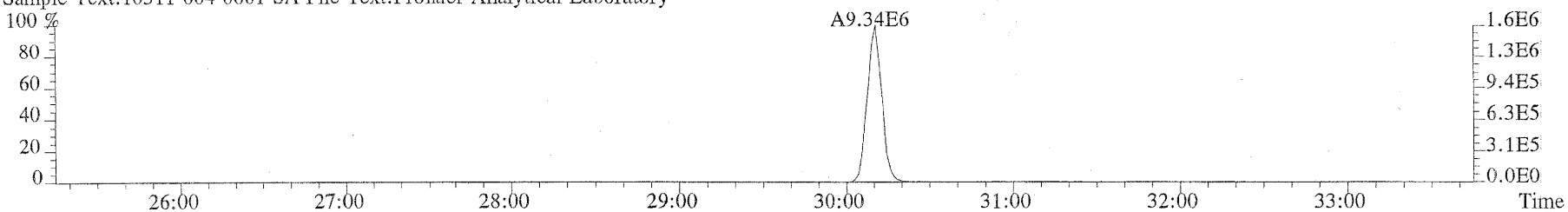
File:05JAN17Z #1-407 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



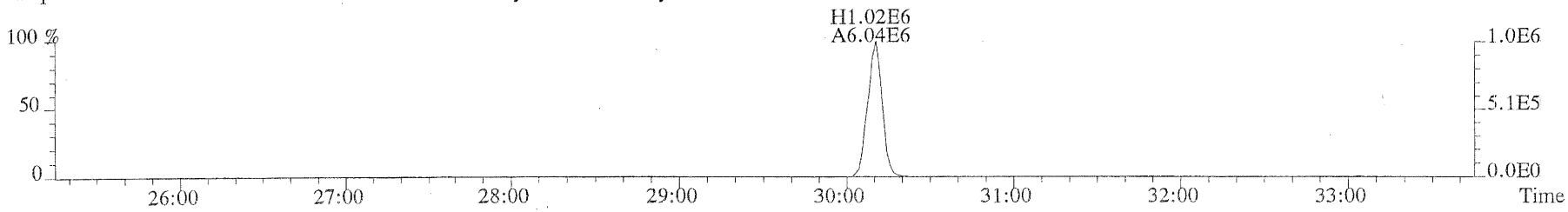
File:05JAN17Z #1-407 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



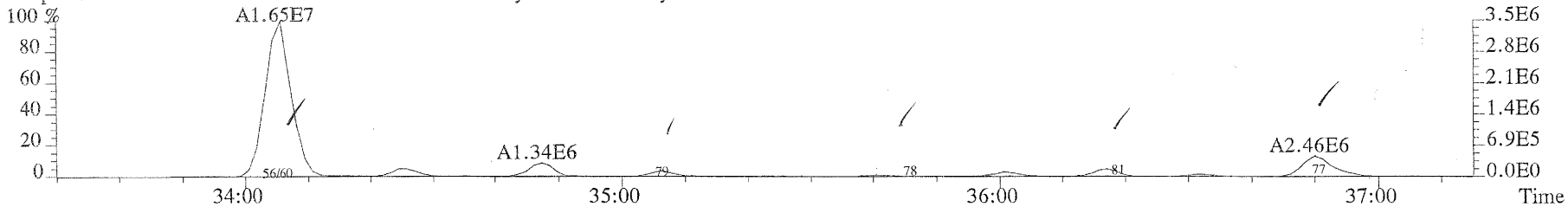
File:05JAN17Z #1-407 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



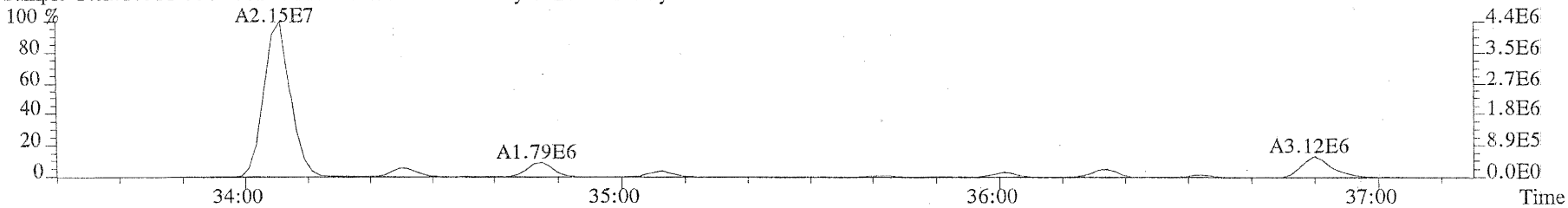
File:05JAN17Z #1-407 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



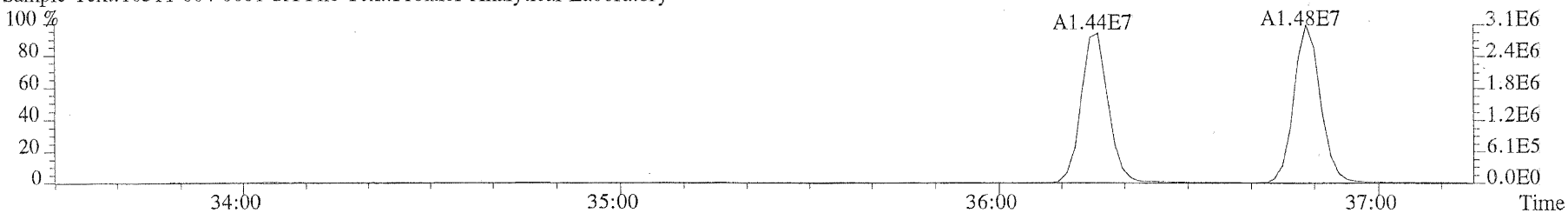
File:05JAN17Z #1-181 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



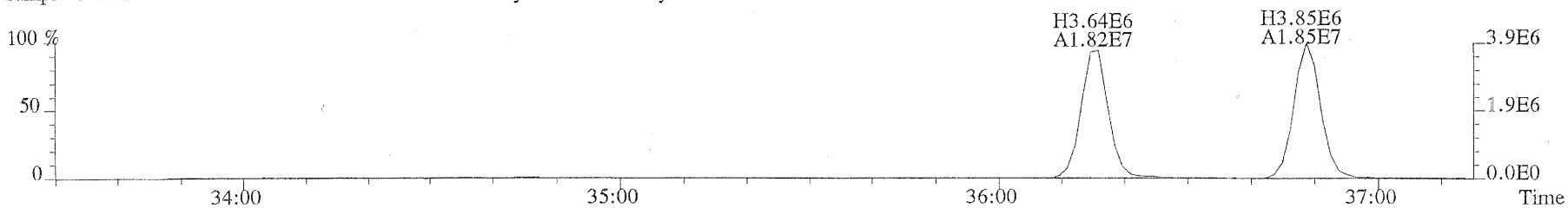
File:05JAN17Z #1-181 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



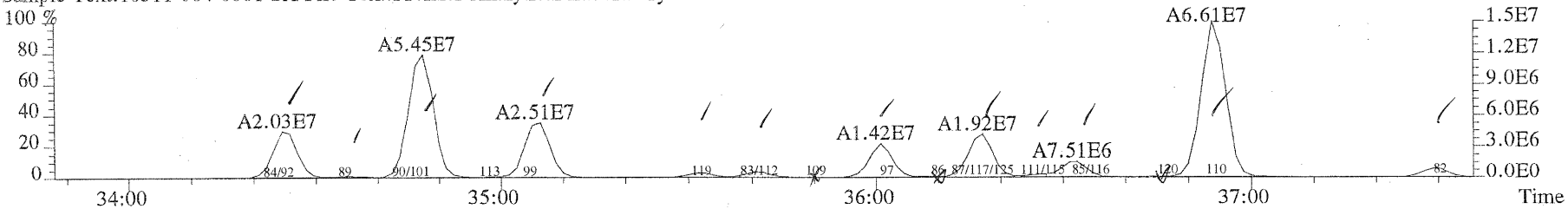
File:05JAN17Z #1-181 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



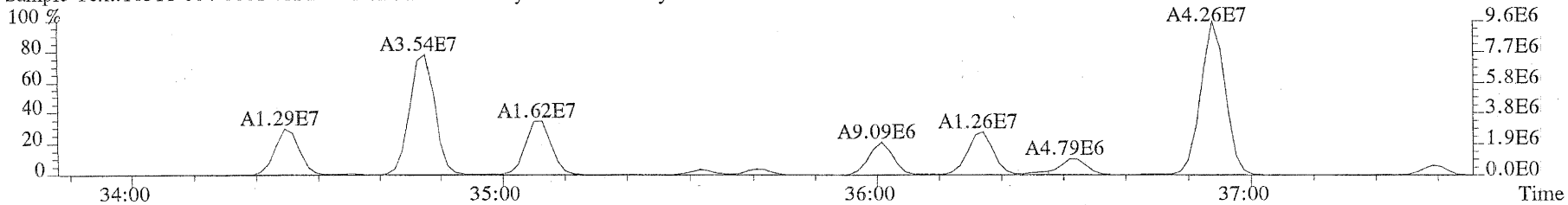
File:05JAN17Z #1-181 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



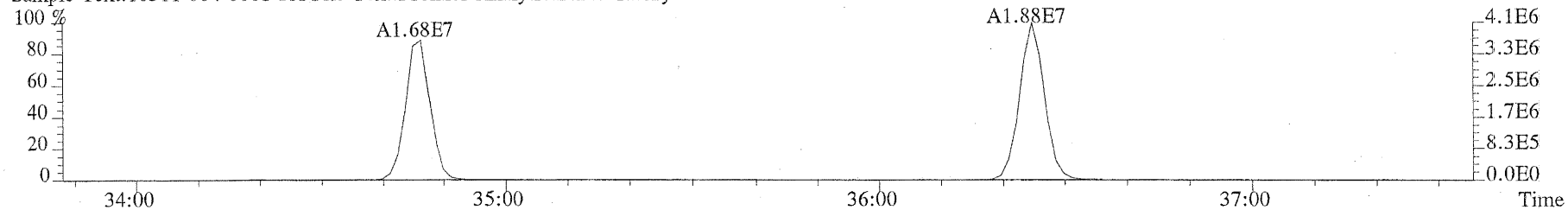
File:05JAN17Z #1-181 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



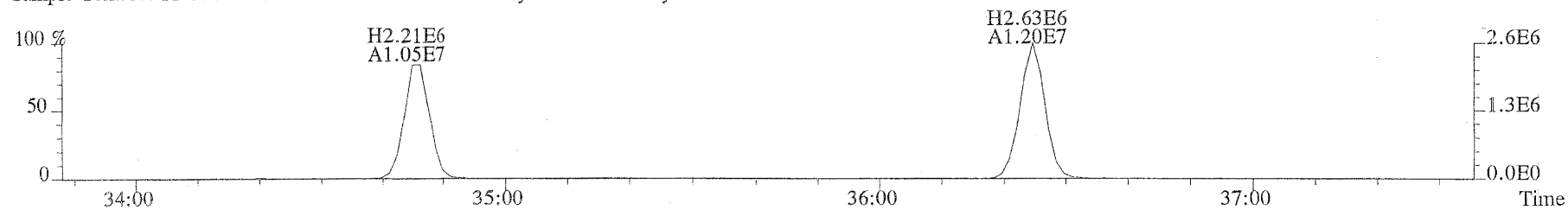
File:05JAN17Z #1-181 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



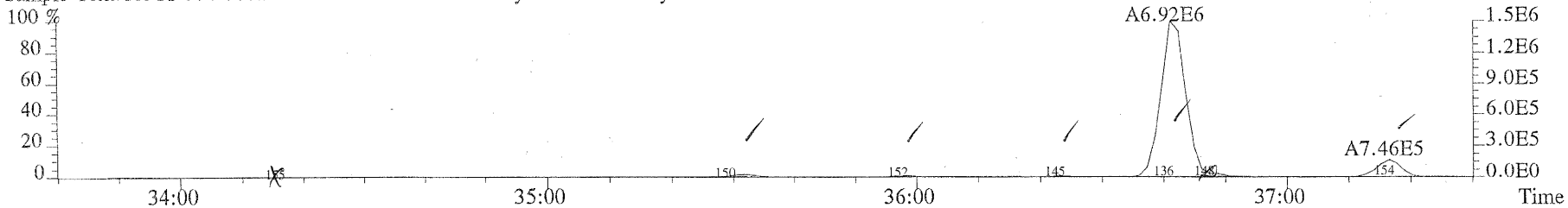
File:05JAN17Z #1-181 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



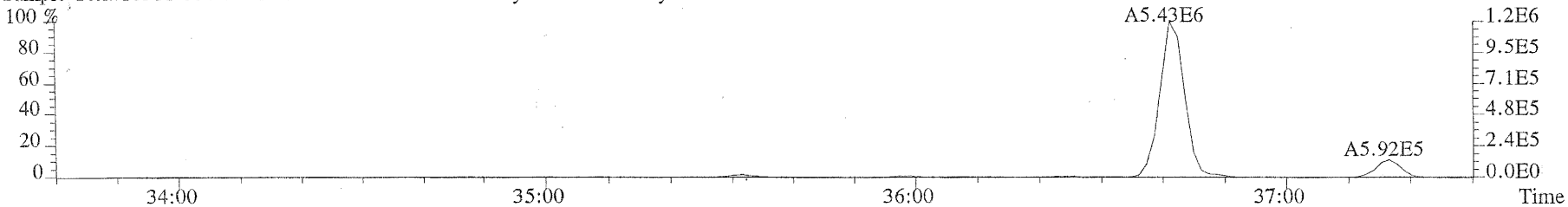
File:05JAN17Z #1-181 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



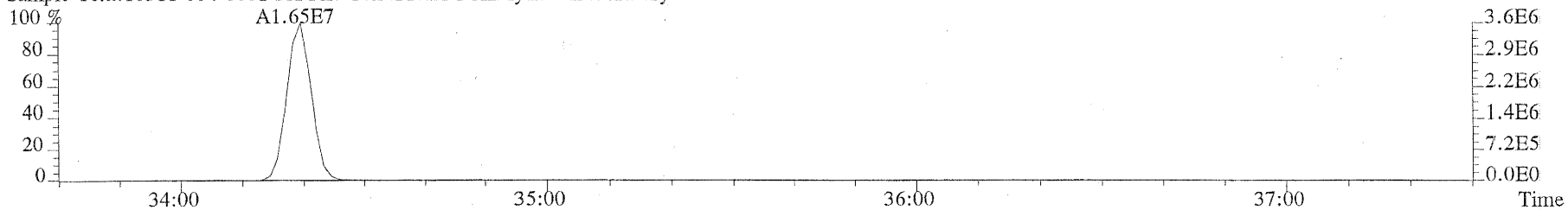
File:05JAN17Z #1-181 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



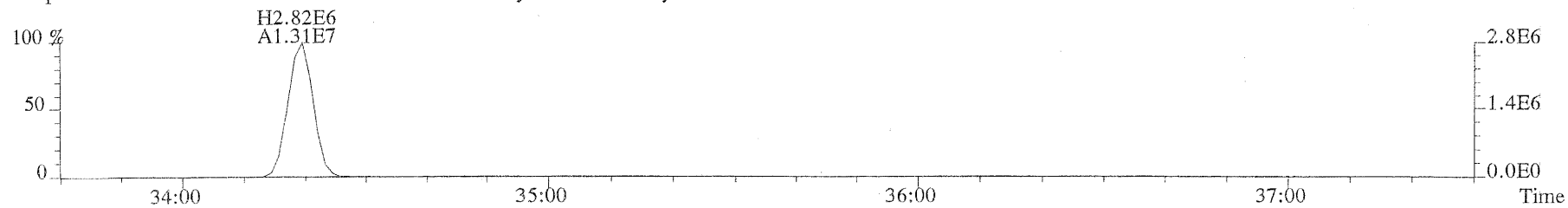
File:05JAN17Z #1-181 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



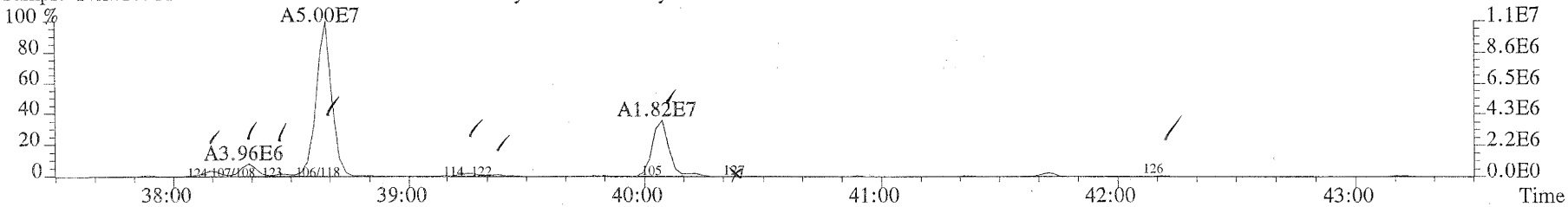
File:05JAN17Z #1-181 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



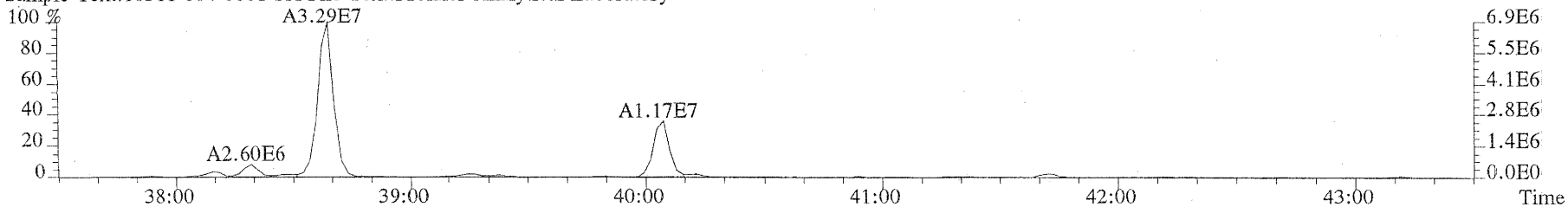
File:05JAN17Z #1-181 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



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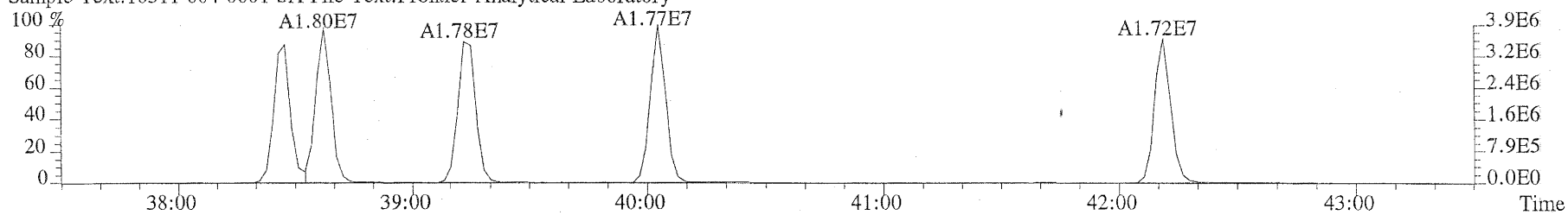
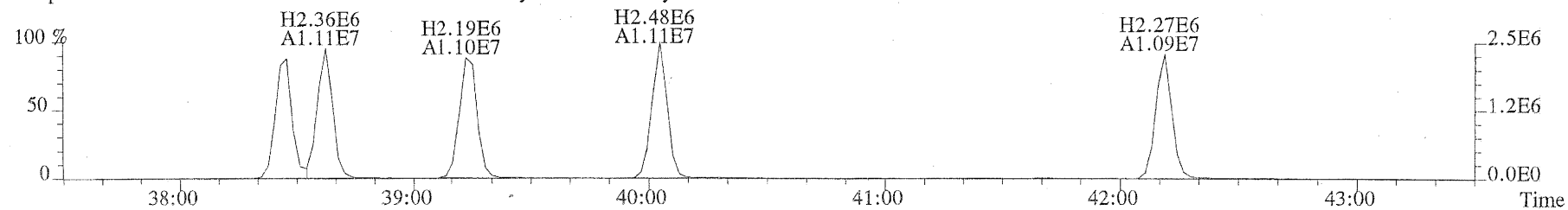
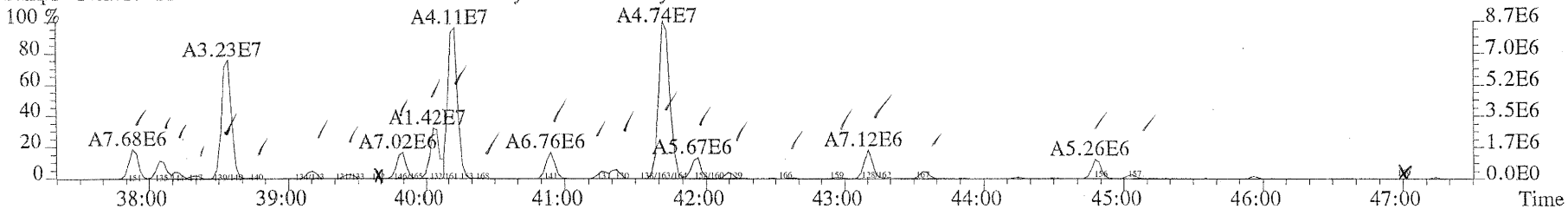
337.9207 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



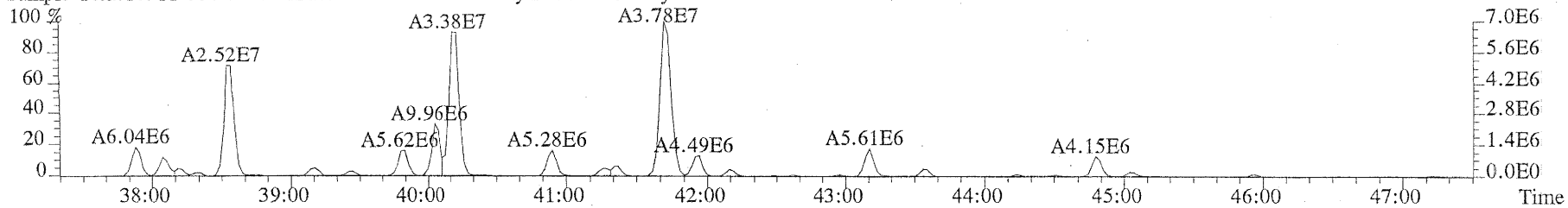
File:05JAN17Z #1-413 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



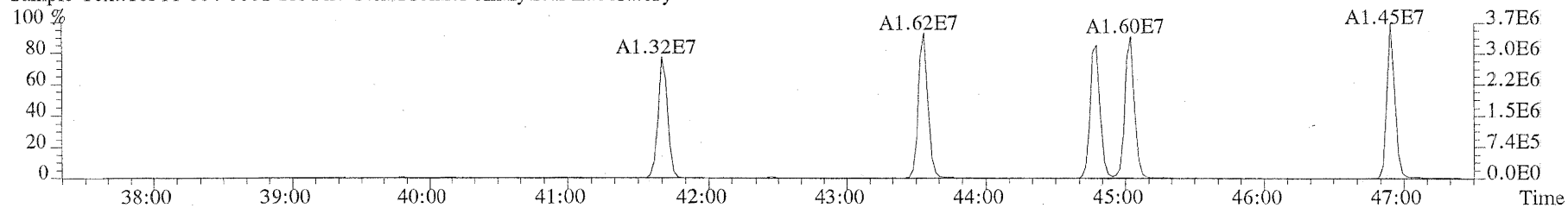
File:05JAN17Z #1-413 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



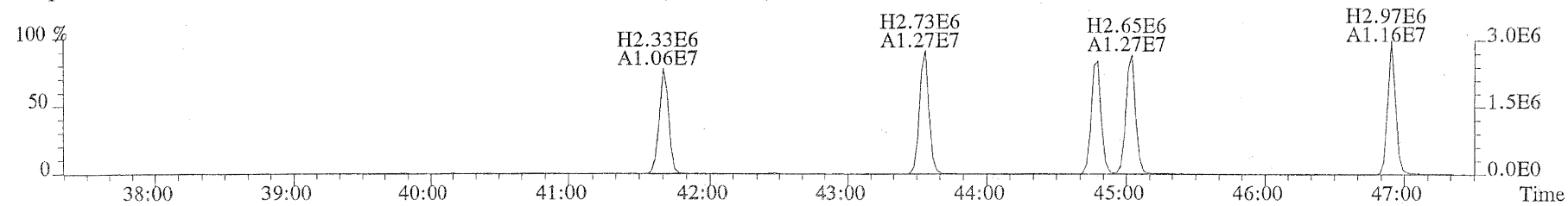
File:05JAN17Z #1-413 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



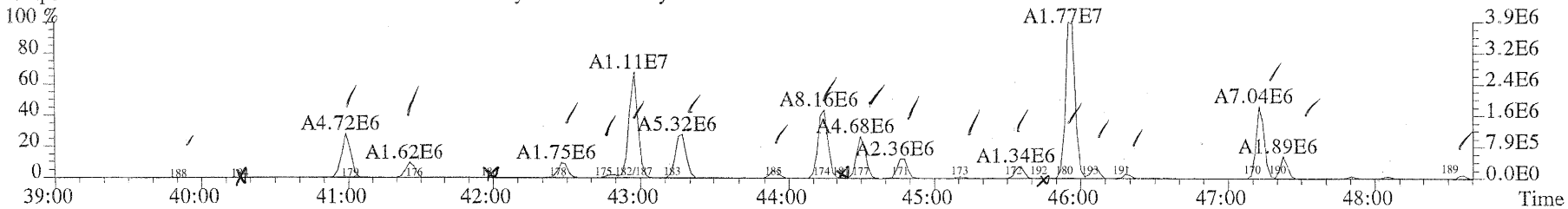
File:05JAN17Z #1-413 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



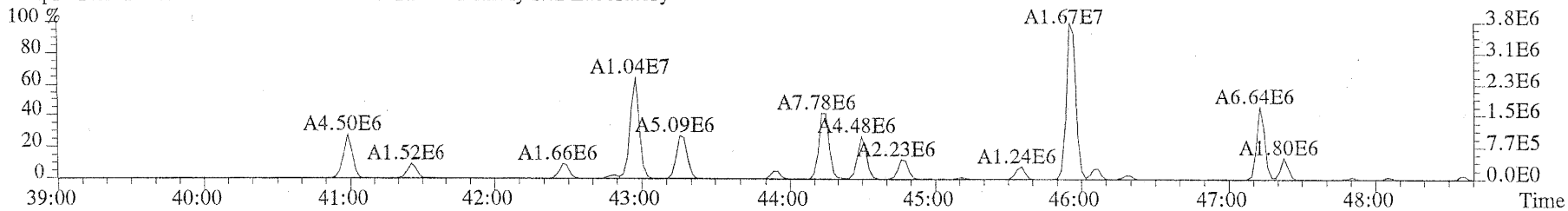
File:05JAN17Z #1-413 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



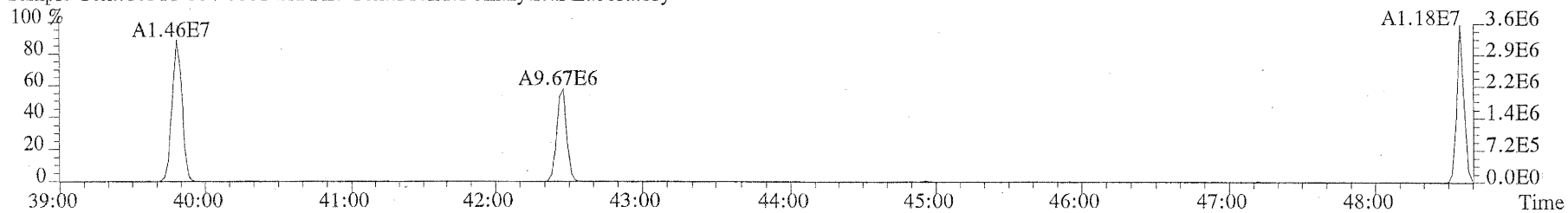
File:05JAN17Z #1-413 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



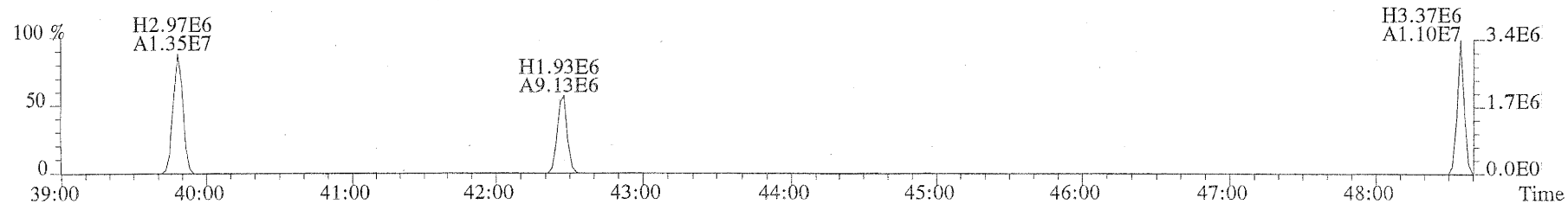
File:05JAN17Z #1-413 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



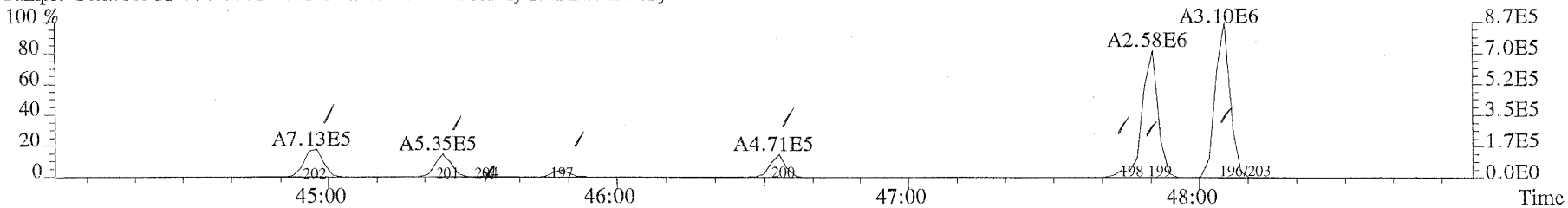
File:05JAN17Z #1-413 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



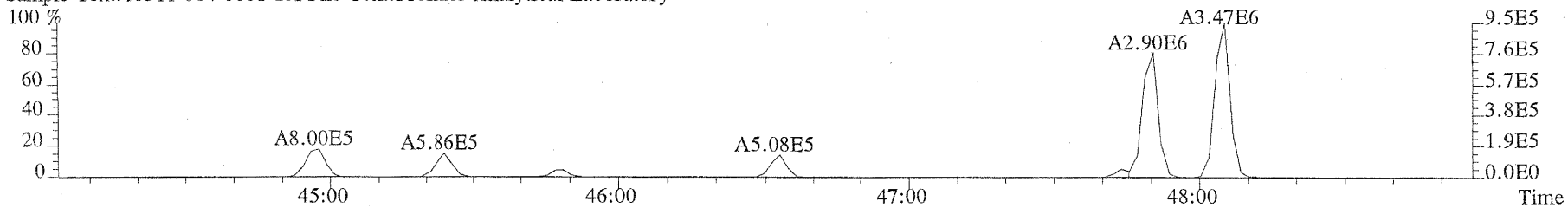
File:05JAN17Z #1-413 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



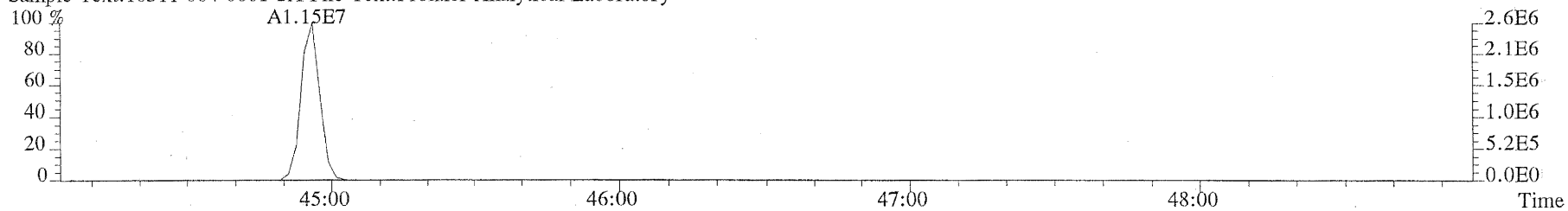
File:05JAN17Z #1-413 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



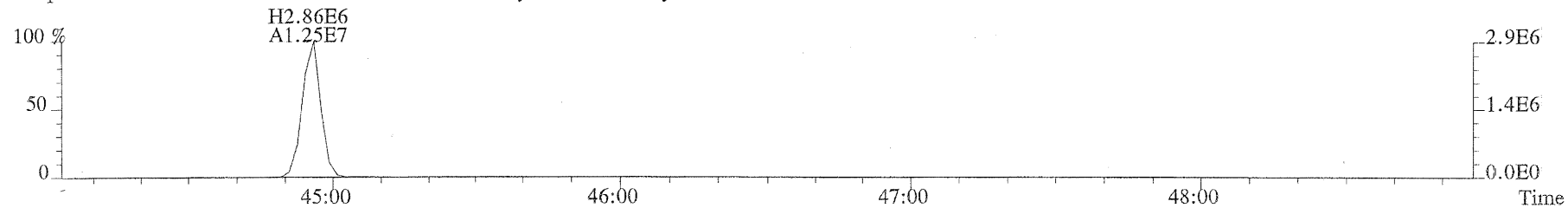
File:05JAN17Z #1-413 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



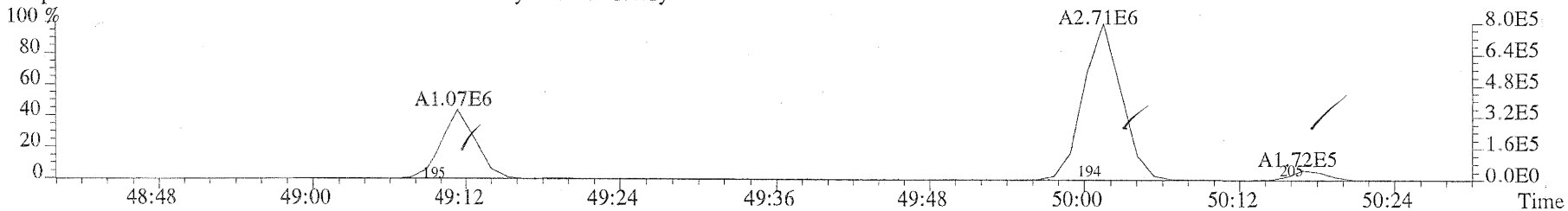
File:05JAN17Z #1-413 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



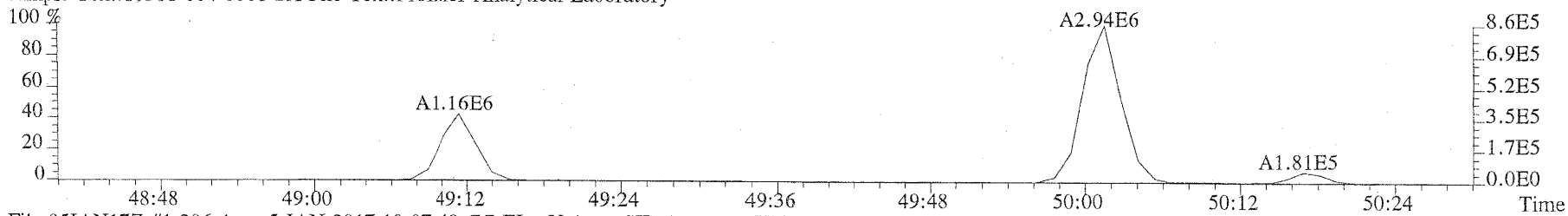
File:05JAN17Z #1-413 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



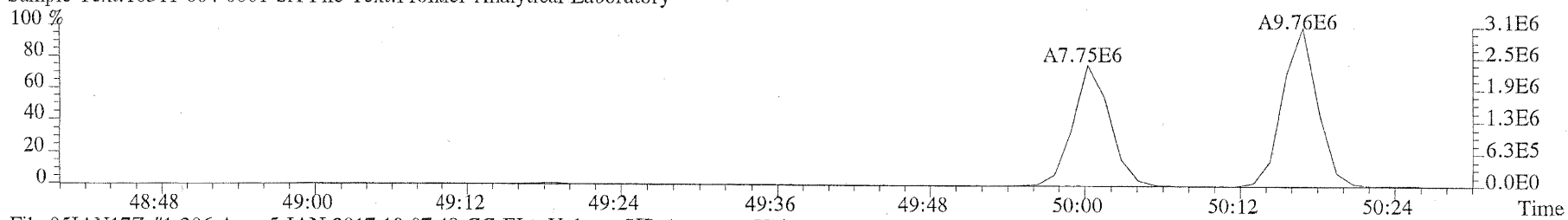
File:05JAN17Z #1-306 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



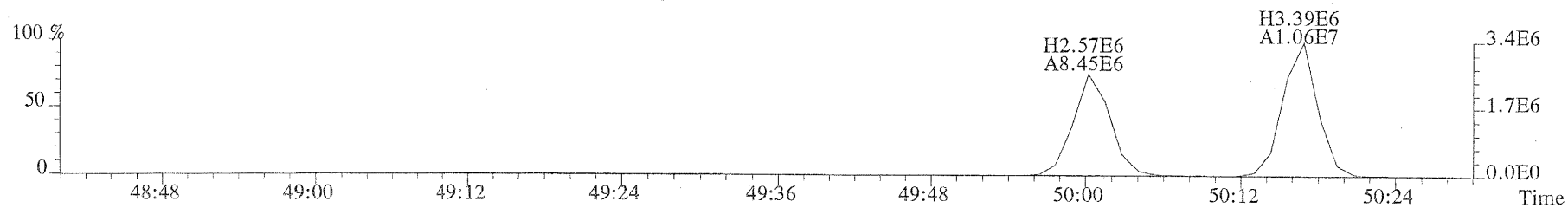
File:05JAN17Z #1-306 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



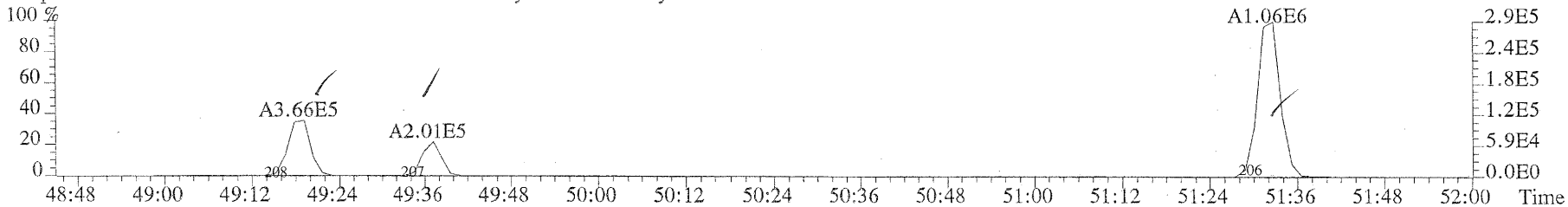
File:05JAN17Z #1-306 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



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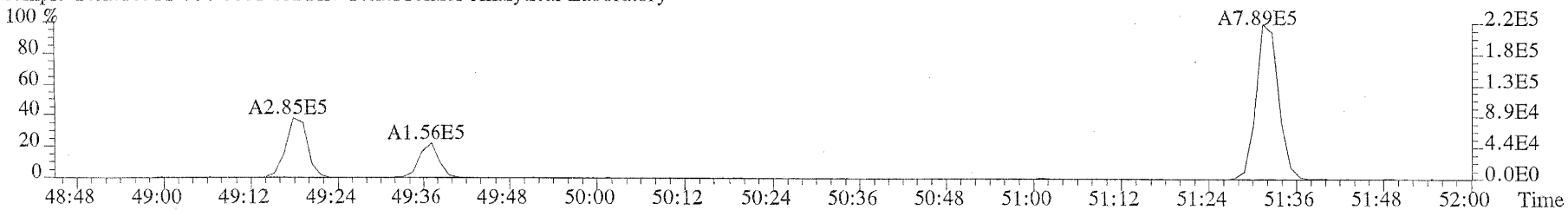
465.7187 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



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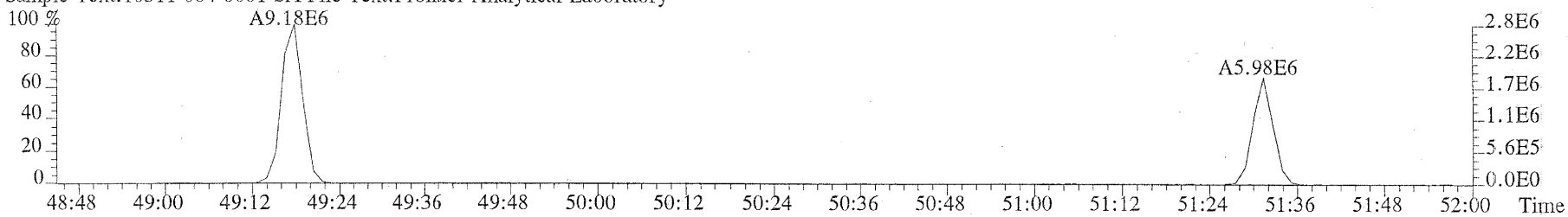
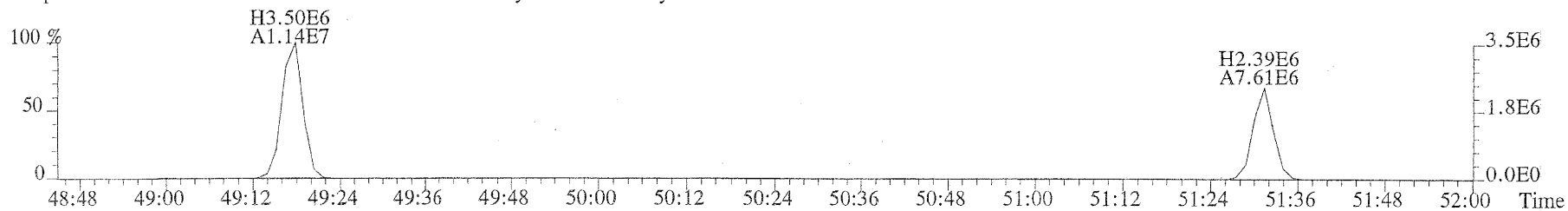
473.7648 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



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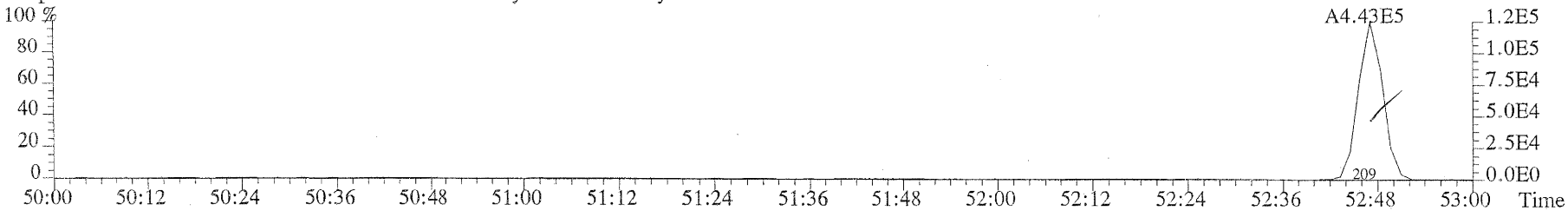
497.6826 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



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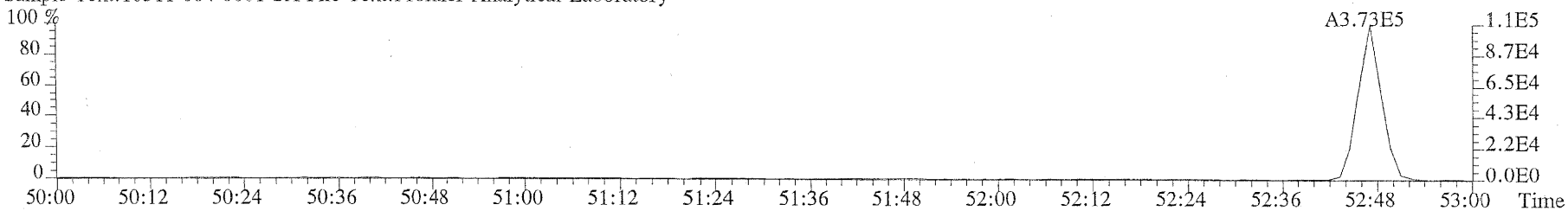
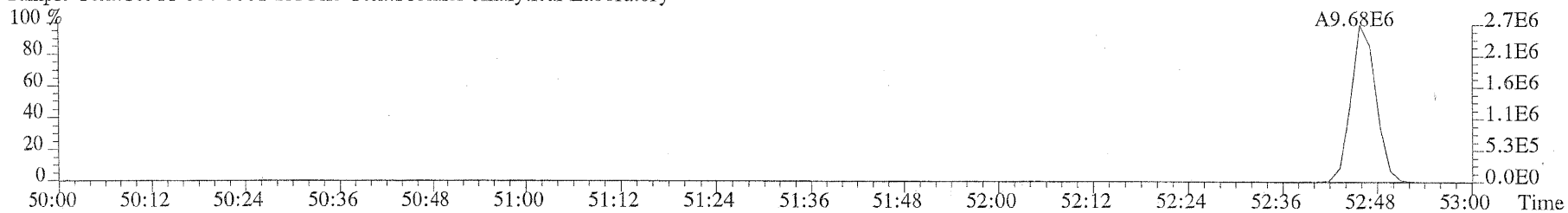
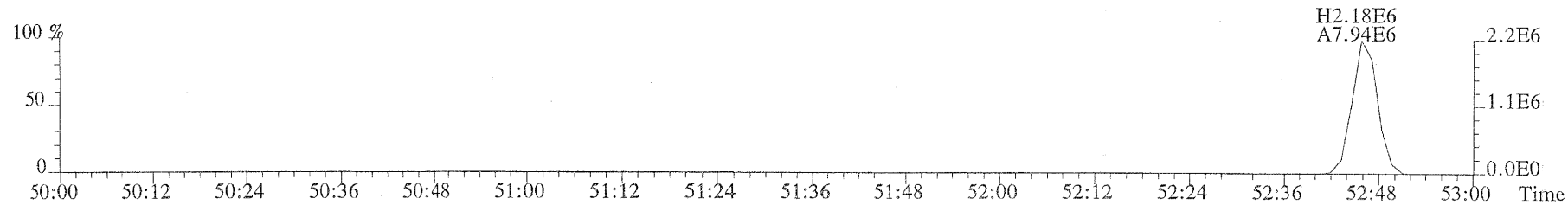
499.6797 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 18:07:48 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-004-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10311-005-0001-SA Filename: 05JAN17Z Sam:10 Acquired: 5-JAN-17 19:06:07 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR-CB-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.110

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	2.01e+06	3.05 y	14:34	0.92	108		-	-	*	
13C-PCB-1	3.99e+07	3.10 y	14:33	1.09	1840					94.0
PCB-2	4.25e+05	3.34 y	16:47	0.87	23.2		-	-	*	
PCB-3	1.86e+06	3.09 y	17:01	0.92	93.6		-	-	*	
13C-PCB-3	4.24e+07	3.19 y	17:00	1.14	1880					95.9
PCB-4	1.02e+07	1.50 y	18:15	1.17	717		-	-	*	
PCB-10	9.89e+05	1.53 y	18:19	0.99	63.9		-	-	*	
13C-PCB-4	2.38e+07	1.57 y	18:14	0.62	1930					98.6
PCB-9	2.63e+06	1.34 y	19:57	1.11	150		-	-	*	
PCB-7	3.58e+06	1.56 y	19:58	1.13	202		-	-	*	
PCB-6	1.73e+07	1.55 y	20:35	1.11	992		-	-	*	
PCB-8	6.54e+07	1.58 y	20:57	1.12	3710		-	-	*	
PCB-5	4.48e+06	1.52 y	21:01	1.08	263		-	-	*	
PCB-14	*	* n	NotFnd	1.11	*		990	1100	1.15	
PCB-11	1.21e+06	1.42 y	23:10	1.08	71.2		-	-	*	
PCB-13	2.62e+06	1.45 y	23:30	1.09	153		-	-	*	
PCB-12	3.57e+06	1.50 y	23:31	1.06	216		-	-	*	
PCB-15	3.91e+07	1.55 y	23:50	1.00	2030		-	-	*	
13C-PCB-15	3.77e+07	1.61 y	23:49	1.03	1840					94.1
PCB-19	5.31e+06	1.06 y	22:10	0.95	504		-	-	*	
PCB-30	*	* n	NotFnd	1.39	*		950	940	1.25	
PCB-18	7.45e+07	1.04 y	23:44	0.97	6990		-	-	*	
PCB-17	4.01e+07	1.04 y	23:54	1.04	3500		-	-	*	
PCB-27	3.42e+06	1.09 y	24:25	1.37	226		-	-	*	
PCB-24	4.63e+06	1.04 y	24:26	1.37	306		-	-	*	
PCB-16	2.44e+07	1.05 y	24:54	1.12	1970		-	-	*	
PCB-32	3.53e+07	1.04 y	24:56	1.25	2560		-	-	*	
13C-PCB-19	2.16e+07	1.08 y	22:08	0.65	1670					85.6
13C-PCB-9	3.88e+07	1.60 y	19:56	-	8.30					
PCB-34	1.27e+06	1.10 y	25:42	0.86	158		-	-	*	
PCB-23	2.51e+05	1.13 y	25:46	0.99	27.2		-	-	*	
PCB-29	1.34e+06	1.09 y	26:01	1.01	143		-	-	*	
PCB-26	3.63e+07	1.05 y	26:14	0.98	3990		-	-	*	
PCB-25	2.03e+07	1.05 y	26:22	1.19	1840		-	-	*	
PCB-31	1.67e+08	1.03 y	26:43	1.04	17300		-	-	*	
PCB-28	2.14e+08	1.06 y	26:49	1.10	20900		-	-	*	
PCB-20	1.03e+08	1.05 y	27:24	1.04	10600		-	-	*	Co-elute PCB 21/33
PCB-21	1.03e+08	1.05 y	27:24	1.04	10600		-	-	*	Co-elute PCB 20/33
PCB-33	1.03e+08	1.05 y	27:24	1.04	10600		-	-	*	Co-elute PCB 20/21
PCB-22	6.07e+07	1.05 y	27:48	1.03	6320		-	-	*	
PCB-36	*	* n	NotFnd	0.99	*		420	320	1.32	
PCB-39	*	* n	NotFnd	0.99	*		420	320	1.32	
PCB-38	*	* n	NotFnd	1.00	*		420	320	1.30	
PCB-35	*	* n	NotFnd	0.94	*		420	320	1.39	
PCB-37	3.40e+07	1.04 y	30:36	1.06	3460		-	-	*	
13C-PCB-37	1.82e+07	1.09 y	30:35	1.18	1940					99.2

FAL ID: 10311-005-0001-SA Filename: 05JAN17Z Sam:10 Acquired: 5-JAN-17 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR-CB-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.110

PCB-54	2.57e+05	0.71	y	25:43	0.99	21.4		-	-	*	
PCB-50	3.47e+05	0.76	y	26:50	0.77	37.2		-	-	*	
PCB-53	1.25e+07	0.78	y	27:26	0.77	1340		-	-	*	
PCB-51	4.08e+06	0.80	y	27:46	0.78	429		-	-	*	
PCB-45	1.03e+07	0.78	y	28:10	0.68	1250		-	-	*	
PCB-46	3.62e+06	0.78	y	28:38	0.64	464		-	-	*	
PCB-52	1.33e+08	0.79	y	29:05	1.01	10800		-	-	*	Co-elute PCB 69
PCB-69	1.33e+08	0.79	y	29:05	1.01	10800		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	0.89	*		540	500	1.07	
PCB-43	7.37e+07	0.79	y	29:23	0.76	7980		-	-	*	Co-elute PCB 49
PCB-49	7.37e+07	0.79	y	29:23	0.76	7980		-	-	*	Co-elute PCB 43
PCB-47	2.46e+07	0.78	y	29:36	0.95	2130		-	-	*	
PCB-48	1.74e+07	0.79	y	29:43	0.96	1490		-	-	*	Co-elute PCB 75
PCB-75	1.74e+07	0.79	y	29:43	0.96	1490		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.00	*		540	500	0.959	
PCB-62	*	*	n	NotFnd	0.93	*		540	500	1.03	
PCB-44	5.34e+07	0.79	y	30:24	0.69	6360		-	-	*	
PCB-42	2.11e+07	0.79	y	30:39	0.94	1850		-	-	*	Co-elute PCB 59
PCB-59	2.11e+07	0.79	y	30:39	0.94	1850		-	-	*	Co-elute PCB 42
PCB-72	5.28e+07	0.78	y	31:17	1.02	4260		-	-	*	Co-elute PCB 41/71/64
PCB-41	5.28e+07	0.78	y	31:17	1.02	4260		-	-	*	Co-elute PCB 72/71/64
PCB-71	5.28e+07	0.78	y	31:17	1.02	4260		-	-	*	Co-elute PCB 72/41/64
PCB-64	5.28e+07	0.78	y	31:17	1.02	4260		-	-	*	Co-elute PCB 72/41/71
PCB-68	2.90e+05	0.85	y	31:36	1.10	21.7		-	-	*	
PCB-40	6.31e+06	0.78	y	31:45	0.59	879		-	-	*	
PCB-57	5.88e+05	0.80	y	32:06	1.04	46.7		-	-	*	
PCB-67	5.96e+06	0.78	y	32:19	0.98	502		-	-	*	
PCB-58	6.43e+05	0.82	y	32:24	1.11	47.9		-	-	*	
PCB-63	7.49e+06	0.78	y	32:33	1.03	601		-	-	*	
PCB-74	9.00e+07	0.78	y	32:48	1.07	6910		-	-	*	
PCB-61	2.15e+08	0.79	y	32:59	1.12	15800		-	-	*	Co-elute PCB 70
PCB-70	2.15e+08	0.79	y	32:59	1.12	15800		-	-	*	Co-elute PCB 61
PCB-76	1.70e+08	0.78	y	33:11	1.07	13200		-	-	*	Co-elute PCB 66
PCB-66	1.70e+08	0.78	y	33:11	1.07	13200		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.19	*		540	500	0.808	
PCB-55	3.11e+06	0.79	y	33:40	1.06	241		-	-	*	
13C-PCB-54	2.37e+07	0.79	y	25:42	1.05	2830					145
PCB-104	*	*	n	NotFnd	1.04	*		260	240	1.32	
PCB-96	6.97e+05	1.57	y	31:33	0.98	124		-	-	*	
PCB-103	1.23e+06	1.58	y	32:05	0.83	256		-	-	*	
PCB-100	7.49e+05	1.61	y	32:20	0.82	158		-	-	*	
PCB-94	6.88e+05	1.59	y	32:44	0.68	175		-	-	*	
PCB-98	*	*	n	NotFnd	0.87	*		260	240	1.57	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.87	*		260	240	1.57	Co-elute PCB 98
PCB-95	1.35e+08	1.60	y	33:14	0.71	33100		-	-	*	
PCB-93	*	*	n	NotFnd	0.67	*		260	240	2.04	
PCB-88	2.33e+07	1.60	y	33:36	0.77	5230		-	-	*	Co-elute PCB 91
PCB-91	2.33e+07	1.60	y	33:36	0.77	5230		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.96	*		260	240	1.44	
13C-PCB-104	1.13e+07	1.56	y	30:14	0.92	1540					78.9
13C-PCB-28	3.21e+07	1.08	y	26:48	1.30	3110	A				159
13C-PCB-52	1.56e+07	0.80	y	29:04	-	4.67					

PCB-56	1.10e+08	0.78	y	34:07	1.01	7950		-	-	*	Co-elute PCB 60
PCB-60	1.10e+08	0.78	y	34:07	1.01	7950		-	-	*	Co-elute PCB 56
PCB-79	2.70e+06	0.75	y	35:08	1.04	190		-	-	*	
PCB-78	6.73e+05	0.75	y	35:43	0.99	49.7		-	-	*	
PCB-81	4.44e+06	0.75	y	36:19	1.06	310		-	-	*	
13C-PCB-81	2.64e+07	0.79	y	36:18	1.07	2290					117
PCB-77	1.45e+07	0.79	y	36:53	0.98	1070		-	-	*	
13C-PCB-77	2.71e+07	0.79	y	36:52	1.08	2320					119
PCB-155	*	*	n	NotFnd	0.98	*		310	300	0.636	
PCB-150	3.90e+05	1.24	y	35:33	0.89	38.3		-	-	*	
PCB-152	2.14e+05	1.17	y	36:00	0.87	21.6		-	-	*	
PCB-145	9.27e+04	1.19	y	36:25	0.85	9.51		-	-	*	
PCB-136	2.68e+07	1.28	y	36:44	0.87	2690		-	-	*	
PCB-148	*	*	n	NotFnd	0.64	*		310	300	0.977	
PCB-154	2.53e+06	1.28	y	37:18	0.77	288		-	-	*	
13C-PCB-155	2.23e+07	1.26	y	34:21	1.11	1860					94.9
13C-PCB-111	2.51e+07	1.56	y	36:28	1.14	2040					104
13C-PCB-101	2.11e+07	1.57	y	34:48	-	6.76					
PCB-84	8.17e+07	1.57	y	34:28	0.79	9030		-	-	*	Co-elute PCB 92
PCB-92	8.17e+07	1.57	y	34:28	0.79	9030		-	-	*	Co-elute PCB 84
PCB-89	1.99e+06	1.56	y	34:38	0.76	229		-	-	*	
PCB-90	2.30e+08	1.57	y	34:49	0.87	23100		-	-	*	Co-elute PCB 101
PCB-101	2.30e+08	1.57	y	34:49	0.87	23100		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.99	*		440	320	0.795	
PCB-99	9.72e+07	1.55	y	35:08	0.97	8740		-	-	*	
PCB-119	6.68e+06	1.55	y	35:35	1.13	515		-	-	*	
PCB-83	1.03e+07	1.56	y	35:43	0.87	1020		-	-	*	Co-elute PCB 112
PCB-112	1.03e+07	1.56	y	35:43	0.87	1020		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.05	*		440	320	0.748	
PCB-97	6.13e+07	1.56	y	36:04	0.95	5610		-	-	*	
PCB-86	*	*	n	NotFnd	0.76	*		440	320	1.03	
PCB-125	8.76e+07	1.55	y	36:19	1.00	7620		-	-	*	Co-elute PCB 87/117
PCB-87	8.76e+07	1.55	y	36:19	1.00	7620		-	-	*	Co-elute PCB 125/117
PCB-117	8.76e+07	1.55	y	36:19	1.00	7620		-	-	*	Co-elute PCB 125/87
PCB-111	4.90e+06	1.46	y	36:29	1.21	352		-	-	*	Co-elute PCB 115
PCB-115	4.90e+06	1.46	y	36:29	1.21	352		-	-	*	Co-elute PCB 111
PCB-85	3.18e+07	1.56	y	36:34	0.95	2910		-	-	*	Co-elute PCB 116
PCB-116	3.18e+07	1.56	y	36:34	0.95	2910		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.17	*		440	320	0.675	
PCB-110	2.66e+08	1.55	y	36:57	1.15	20000		-	-	*	
PCB-82	1.66e+07	1.53	y	37:32	0.66	2190		-	-	*	
PCB-124	8.73e+06	1.53	y	38:13	0.92	829		-	-	*	
PCB-108	1.62e+07	1.56	y	38:21	1.02	1380		-	-	*	Co-elute PCB 107
PCB-107	1.62e+07	1.56	y	38:21	1.02	1380		-	-	*	Co-elute PCB 108
PCB-123	3.39e+06	1.53	y	38:31	1.10	272		-	-	*	
13C-PCB-123	2.22e+07	1.60	y	38:30	1.05	2430					124
PCB-118	2.18e+08	1.56	y	38:41	0.92	20400		-	-	*	Co-elute PCB 106
PCB-106	2.18e+08	1.56	y	38:41	0.92	20400		-	-	*	Co-elute PCB 118
13C-PCB-118	2.27e+07	1.62	y	38:39	1.10	2380					122
PCB-114	5.28e+06	1.53	y	39:17	0.95	477		-	-	*	
13C-PCB-114	2.29e+07	1.62	y	39:17	1.05	2510					128
PCB-122	2.19e+06	1.57	y	39:24	1.02	187		-	-	*	
PCB-105	8.51e+07	1.60	y	40:07	0.99	7490		-	-	*	
13C-PCB-105	2.24e+07	1.60	y	40:05	1.06	2430					124

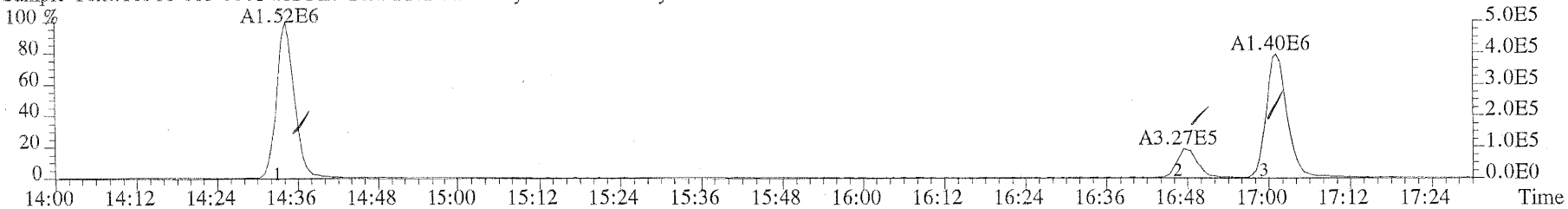
PCB-127	*	*	n	NotFnd	0.92	*	450	350	0.900		
PCB-126	5.44e+05	1.60	y	42:13	1.00	49.8	-	-	*		
13C-PCB-126	2.13e+07	1.61	y	42:13	1.00	2450				125	
PCB-151	3.03e+07	1.28	y	37:55	0.67	4500	-	-	*		
PCB-135	1.91e+07	1.27	y	38:08	0.72	2670	-	-	*		
PCB-144	6.88e+06	1.31	y	38:15	0.67	1020	-	-	*		
PCB-147	3.45e+06	1.29	y	38:21	0.76	454	-	-	*		
PCB-139	1.26e+08	1.28	y	38:36	0.76	16700	-	-	*	Co-elute PCB 149	
PCB-149	1.26e+08	1.28	y	38:36	0.76	16700	-	-	*	Co-elute PCB 139	
PCB-140	9.48e+05	1.24	y	38:48	0.73	129	-	-	*		
PCB-143	8.57e+06	1.25	y	39:12	0.69	1240	-	-	*	Co-elute PCB 134	
PCB-134	8.57e+06	1.25	y	39:12	0.69	1240	-	-	*	Co-elute PCB 143	
PCB-131	4.75e+06	1.27	y	39:29	0.71	673	-	-	*	Co-elute PCB 133	
PCB-133	4.75e+06	1.27	y	39:29	0.71	673	-	-	*	Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.62	*	491	375	1.61		
PCB-165	2.55e+07	1.27	y	39:52	0.85	3000	-	-	*	Co-elute PCB 146	
PCB-146	2.55e+07	1.27	y	39:52	0.85	3000	-	-	*	Co-elute PCB 165	
PCB-161	5.73e+07	1.25	y	40:05	0.79	7300	-	-	*	Co-elute PCB 132	
PCB-132	5.73e+07	1.25	y	40:05	0.79	7300	-	-	*	Co-elute PCB 161	
PCB-153	1.62e+08	1.25	y	40:15	0.84	19400	-	-	*		
PCB-168	2.52e+05	1.14	y	40:26	0.91	27.7	-	-	*		
PCB-141	2.84e+07	1.27	y	40:56	0.74	3860	-	-	*		
PCB-137	8.54e+06	1.24	y	41:19	0.65	1320	-	-	*		
PCB-130	1.01e+07	1.31	y	41:24	0.69	1470	-	-	*		
PCB-138	1.93e+08	1.26	y	41:45	0.95	20300	-	-	*	Co-elute PCB 163/164	
PCB-163	1.93e+08	1.26	y	41:45	0.95	20300	-	-	*	Co-elute PCB 138/164	
PCB-164	1.93e+08	1.26	y	41:45	0.95	20300	-	-	*	Co-elute PCB 138/163	
PCB-158	2.37e+07	1.28	y	41:59	0.94	2530	-	-	*	Co-elute PCB 160	
PCB-160	2.37e+07	1.28	y	41:59	0.94	2530	-	-	*	Co-elute PCB 158	
PCB-129	7.34e+06	1.24	y	42:12	0.59	1250	-	-	*		
PCB-166	8.59e+05	1.32	y	42:40	0.90	95.4	-	-	*		
PCB-159	1.12e+06	1.35	y	43:01	0.96	116	-	-	*		
PCB-128	2.96e+07	1.26	y	43:13	0.81	3650	-	-	*	Co-elute PCB 162	
PCB-162	2.96e+07	1.26	y	43:13	0.81	3650	-	-	*	Co-elute PCB 128	
PCB-167	7.96e+06	1.26	y	43:37	0.88	839	-	-	*		
13C-PCB-167	2.11e+07	1.27	y	43:36	1.16	2110				108	
PCB-156	2.26e+07	1.28	y	44:51	0.92	2370	-	-	*		
13C-PCB-156	2.02e+07	1.28	y	44:50	1.11	2100				107	
PCB-157	4.53e+06	1.28	y	45:06	0.94	479	-	-	*		
13C-PCB-157	1.97e+07	1.29	y	45:05	1.14	1990				102	
PCB-169	*	*	n	NotFnd	0.89	*	491	375	1.16		
13C-PCB-169	1.72e+07	1.25	y	46:57	1.10	1800				92.1	

FAL ID: 10311-005-0001-SA Filename: 05JAN17Z Sam:10 Acquired: 5-JAN-17 19:06:07 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR-CB-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.110

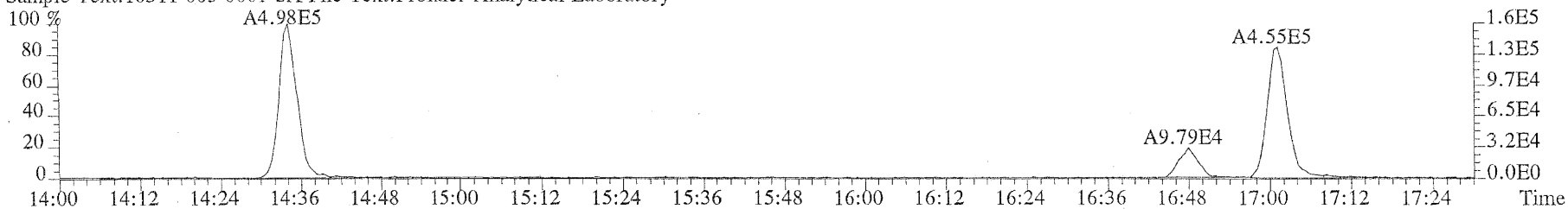
PCB-188	8.70e+04	1.10	y	39:52	1.04	8.21	-	-	*	
13C-PCB-188	2.00e+07	1.07	y	39:50	1.22	1890				96.7
PCB-184	4.28e+04	0.96	y	40:17	1.08	4.70	-	-	*	
PCB-179	1.58e+07	1.07	y	41:01	1.03	1830	-	-	*	
PCB-176	5.49e+06	1.04	y	41:27	1.01	644	-	-	*	
PCB-186	*	*	n	NotFnd	1.00	*	441	391	1.01	
PCB-178	5.73e+06	1.05	y	42:32	0.73	925	-	-	*	
PCB-175	1.17e+06	1.03	y	42:51	0.76	182	-	-	*	
PCB-187	3.66e+07	1.07	y	43:00	0.84	5160	-	-	*	Co-elute PCB 182
PCB-182	3.66e+07	1.07	y	43:00	0.84	5160	-	-	*	Co-elute PCB 187
PCB-183	1.84e+07	1.05	y	43:19	0.83	2640	-	-	*	
PCB-185	2.97e+06	1.10	y	43:57	0.77	457	-	-	*	
PCB-174	2.84e+07	1.06	y	44:17	0.76	4450	-	-	*	
PCB-181	*	*	n	NotFnd	0.77	*	441	391	1.31	
PCB-177	1.60e+07	1.06	y	44:32	0.69	2730	-	-	*	
PCB-171	8.17e+06	1.05	y	44:50	0.73	1330	-	-	*	
PCB-173	6.37e+05	1.06	y	45:13	0.67	113	-	-	*	
PCB-172	4.37e+06	1.06	y	45:38	0.69	748	-	-	*	
PCB-192	*	*	n	NotFnd	0.91	*	441	391	1.12	
PCB-180	5.85e+07	1.06	y	45:59	0.92	7550	-	-	*	
PCB-193	3.83e+06	1.08	y	46:09	0.97	466	-	-	*	
PCB-191	1.42e+06	1.02	y	46:20	0.97	173	-	-	*	
PCB-170	2.19e+07	1.07	y	47:15	0.68	3790	-	-	*	
PCB-190	6.07e+06	1.05	y	47:25	0.93	769	-	-	*	
PCB-189	1.01e+06	1.09	y	48:39	0.99	153	-	-	*	
13C-PCB-189	1.30e+07	1.07	y	48:37	1.10	1370				69.8
PCB-202	2.29e+06	0.93	y	45:00	0.86	330	-	-	*	
PCB-201	1.69e+06	0.96	y	45:26	0.86	242	-	-	*	
PCB-204	*	*	n	NotFnd	0.87	*	455	441	1.43	
PCB-197	5.02e+05	0.86	y	45:51	0.88	70.3	-	-	*	
PCB-200	1.38e+06	0.91	y	46:35	0.88	193	-	-	*	
PCB-198	4.11e+05	0.85	y	47:46	0.65	77.5	-	-	*	
PCB-199	7.15e+06	0.91	y	47:51	0.60	1470	-	-	*	
PCB-203	9.08e+06	0.90	y	48:07	0.68	1650	-	-	*	Co-elute PCB 196
PCB-196	9.08e+06	0.90	y	48:07	0.68	1650	-	-	*	Co-elute PCB 203
13C-PCB-202	1.58e+07	0.91	y	44:58	1.09	1680				85.8
13C-PCB-178	1.40e+07	1.05	y	42:30	0.89	1820				93.0
13C-PCB-138	1.69e+07	1.26	y	41:42	-	6.12				
PCB-195	3.64e+06	0.91	y	49:13	0.70	874	-	-	*	
PCB-194	7.72e+06	0.92	y	50:04	0.75	1720	-	-	*	
PCB-205	5.17e+05	1.01	y	50:20	0.98	88.7	-	-	*	
13C-PCB-205	1.16e+07	0.92	y	50:18	1.24	2130				109
PCB-208	9.46e+05	1.33	y	49:20	0.90	169	-	-	*	
13C-PCB-208	1.21e+07	0.80	y	49:19	1.34	2070				106
PCB-207	3.95e+05	1.25	y	49:38	0.98	81.2	-	-	*	
PCB-206	2.58e+06	1.34	y	51:34	0.92	762	-	-	*	
13C-PCB-206	7.19e+06	0.80	y	51:33	0.96	1700				87.1
PCB-209	2.26e+06	1.19	y	52:50	0.97	495	-	-	*	
13C-PCB-209	9.18e+06	1.17	y	52:48	1.40	1500				76.7
13C-PCB-194	8.57e+06	0.93	y	50:03	-	4.19				

Analyst: _____ Date: 1/9/17

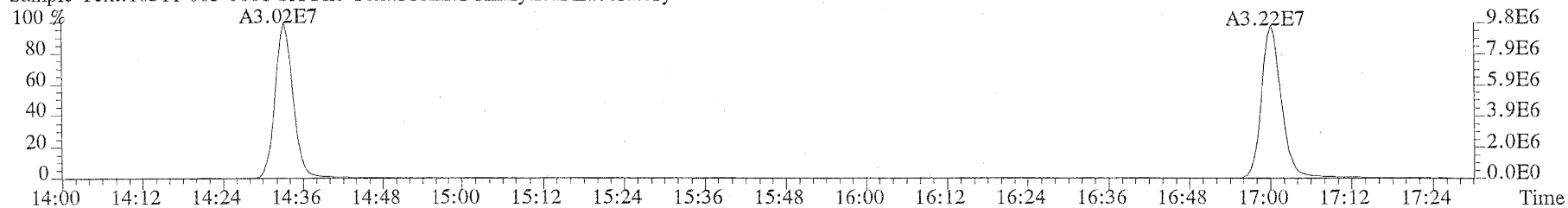
File:05JAN17Z #1-784 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



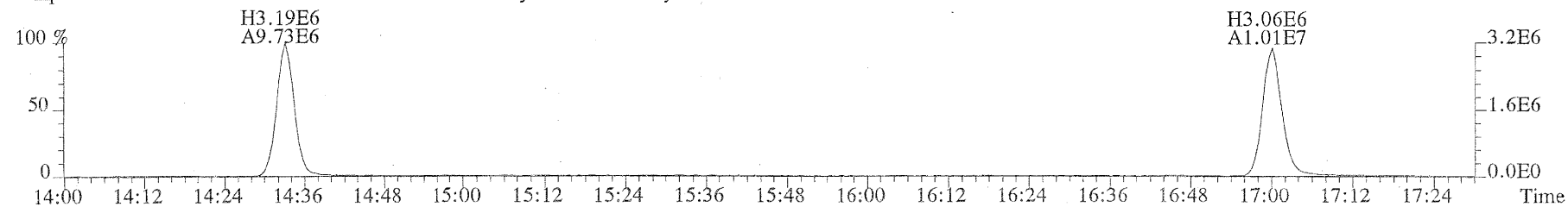
File:05JAN17Z #1-784 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



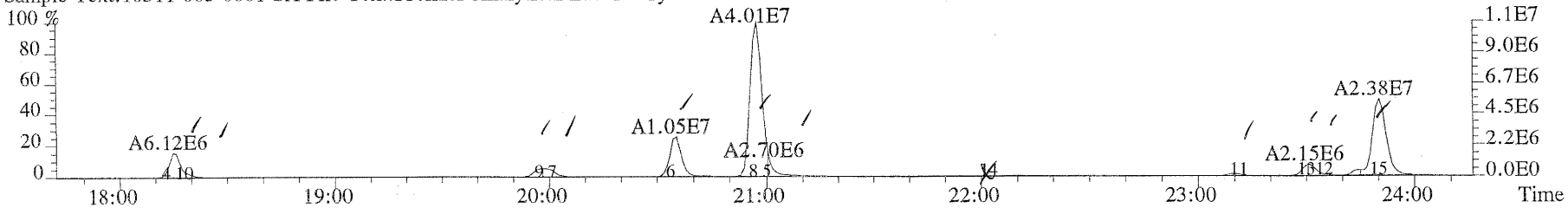
File:05JAN17Z #1-784 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



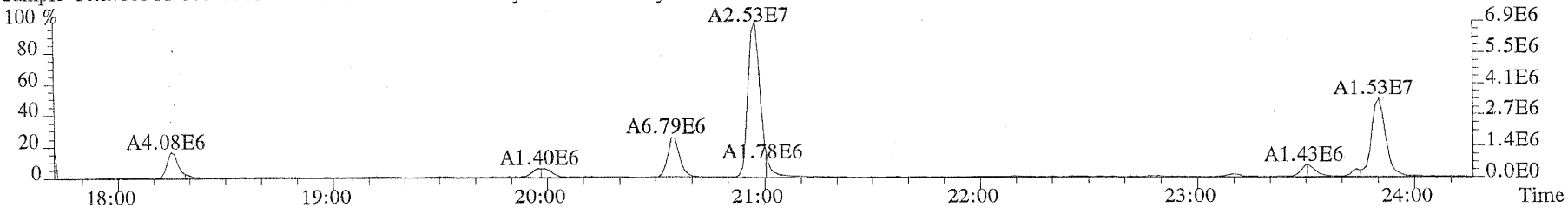
File:05JAN17Z #1-784 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



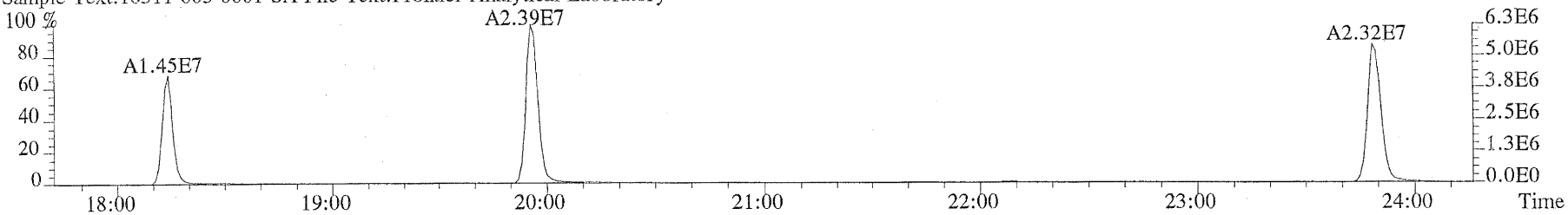
File:05JAN17Z #1-509 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



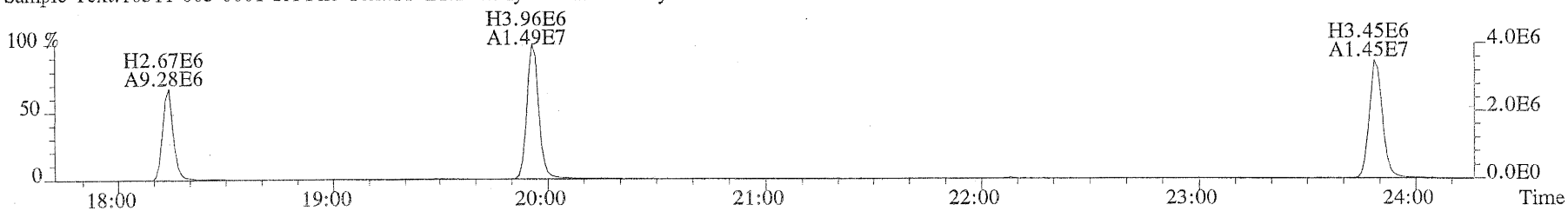
File:05JAN17Z #1-509 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



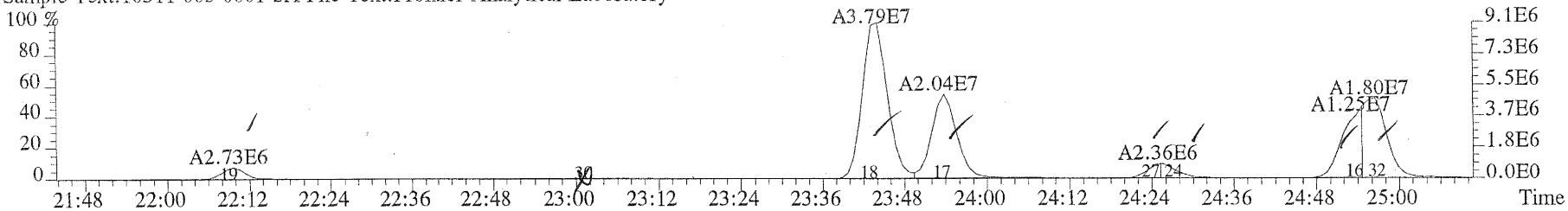
File:05JAN17Z #1-509 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



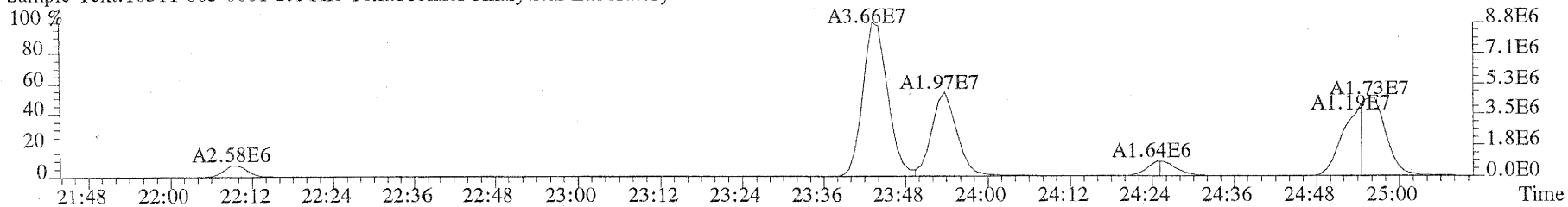
File:05JAN17Z #1-509 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



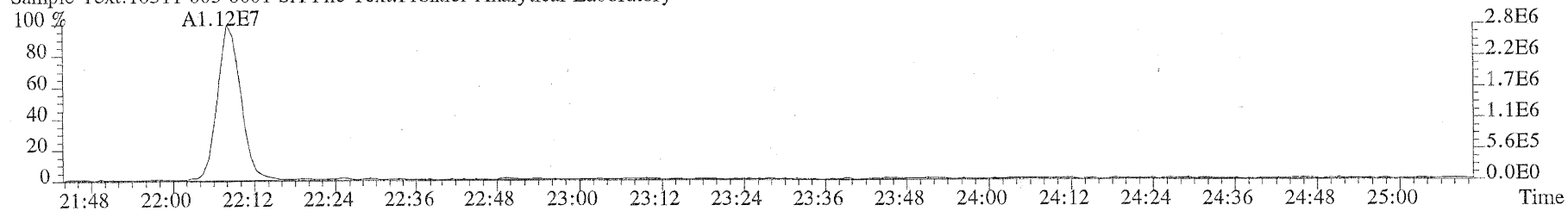
File:05JAN17Z #1-509 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



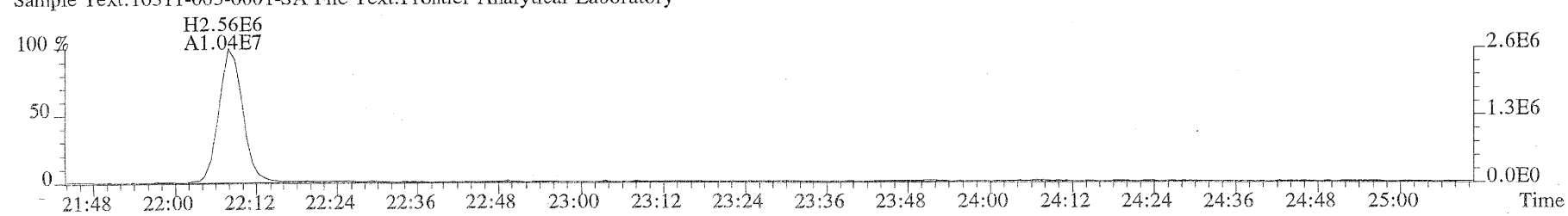
File:05JAN17Z #1-509 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



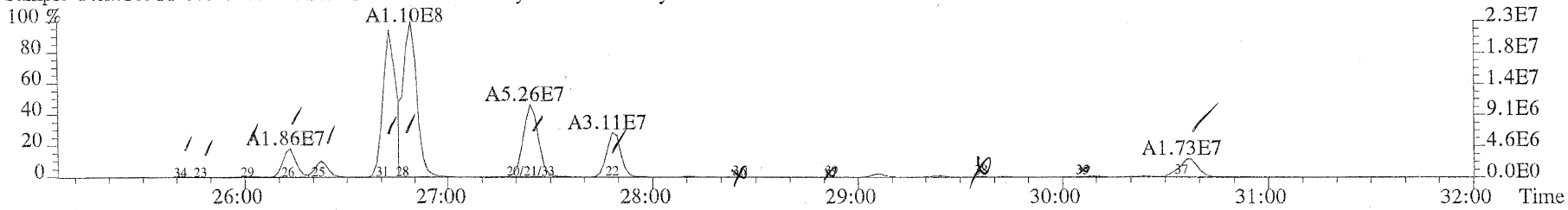
File:05JAN17Z #1-509 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



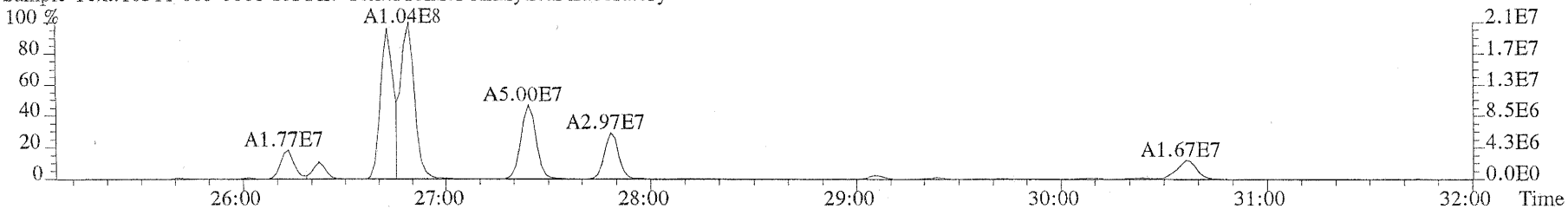
File:05JAN17Z #1-509 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



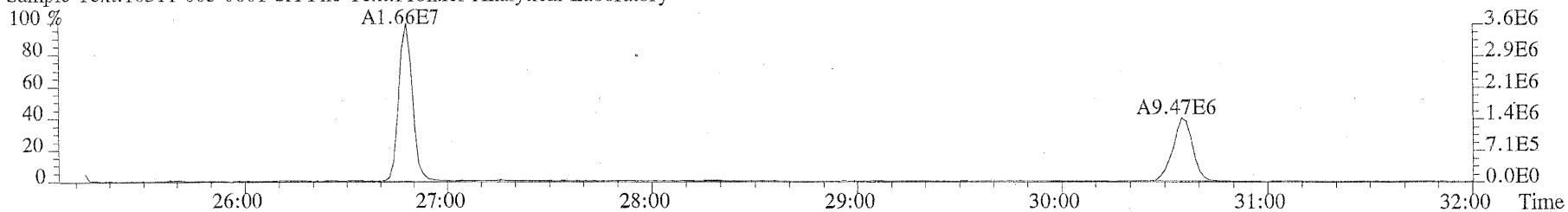
File:05JAN17Z #1-407 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



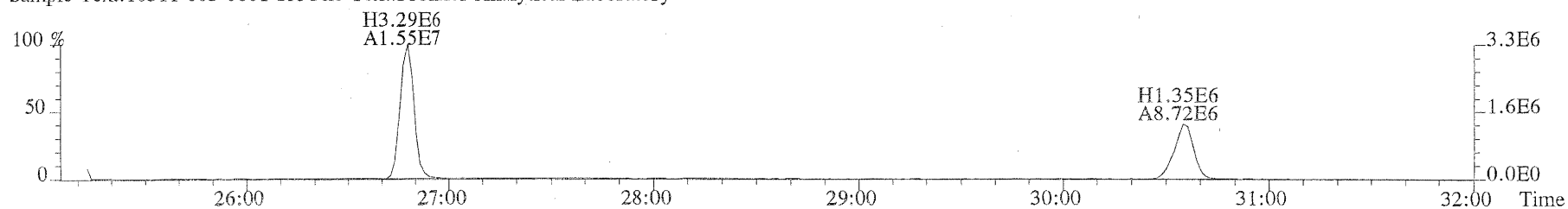
File:05JAN17Z #1-407 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



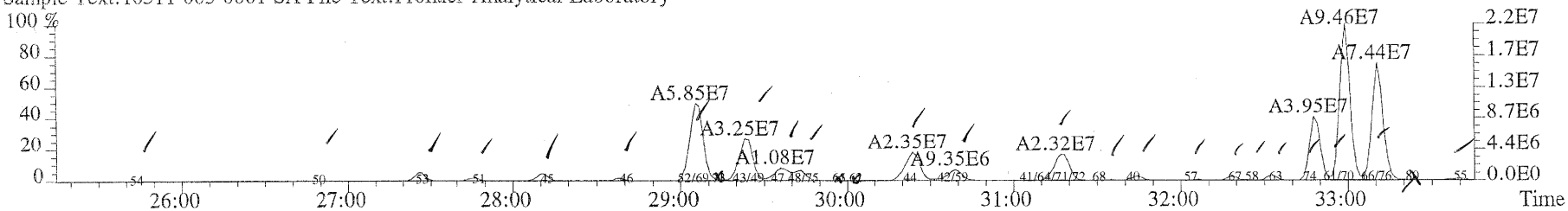
File:05JAN17Z #1-407 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



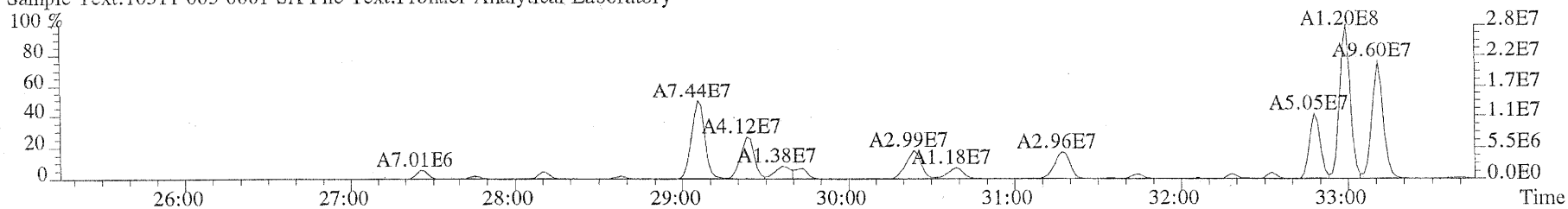
File:05JAN17Z #1-407 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



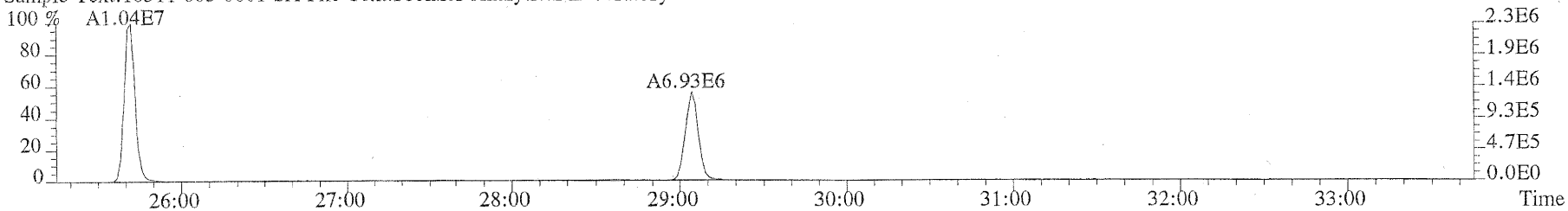
File:05JAN17Z #1-407 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



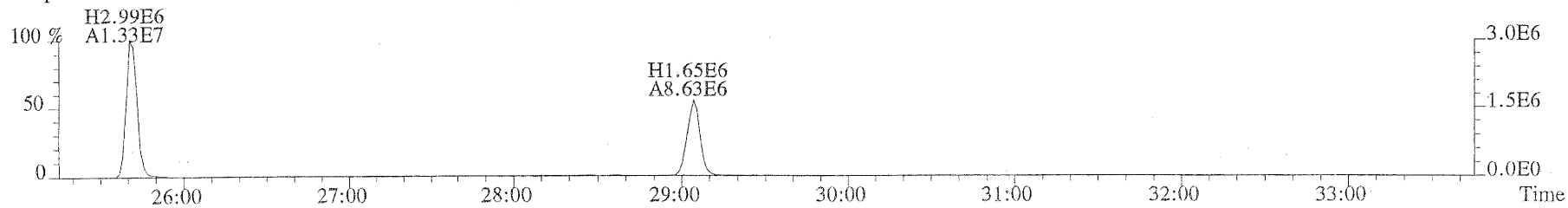
File:05JAN17Z #1-407 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



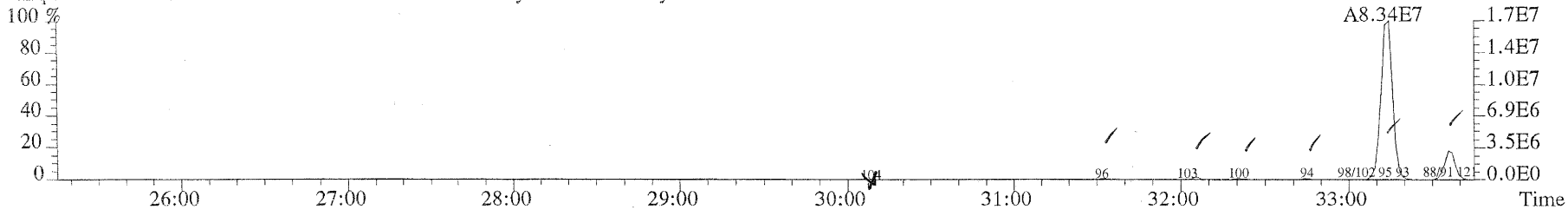
File:05JAN17Z #1-407 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



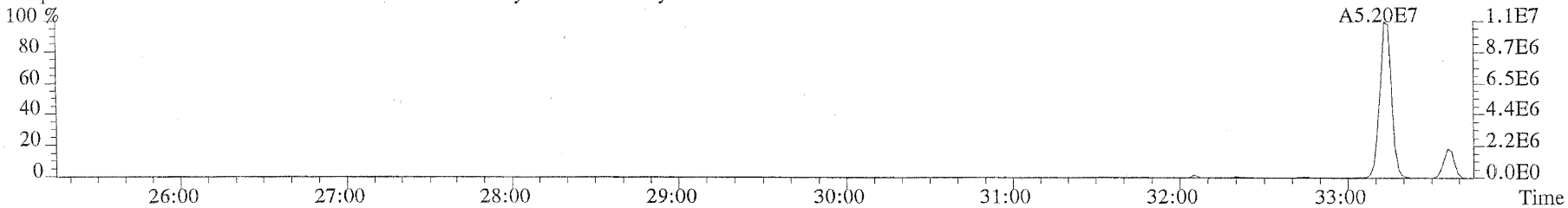
File:05JAN17Z #1-407 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



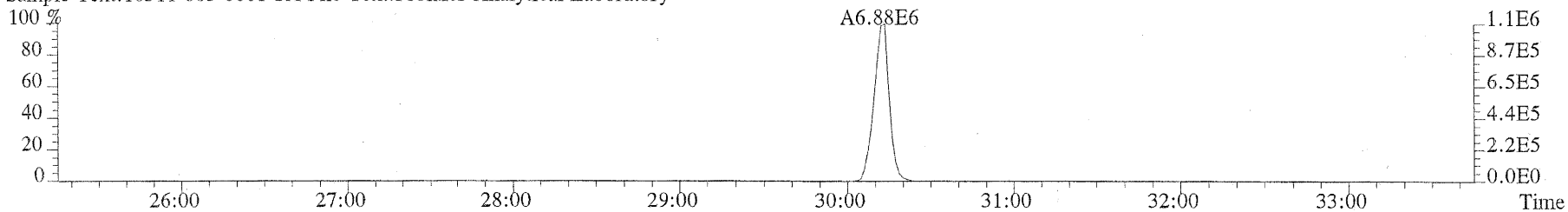
File:05JAN17Z #1-407 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



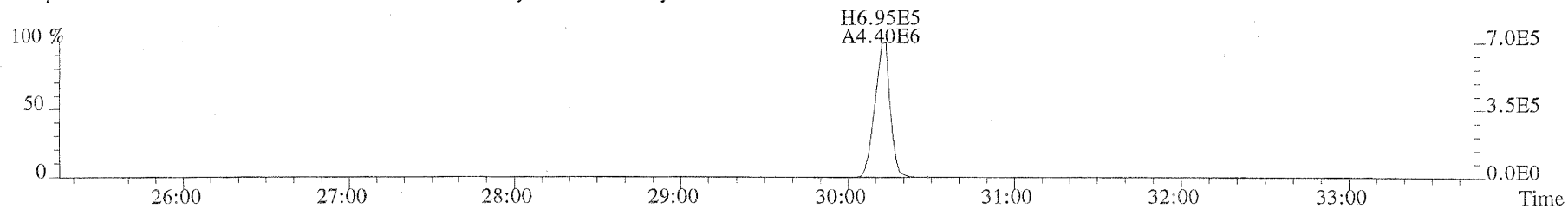
File:05JAN17Z #1-407 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



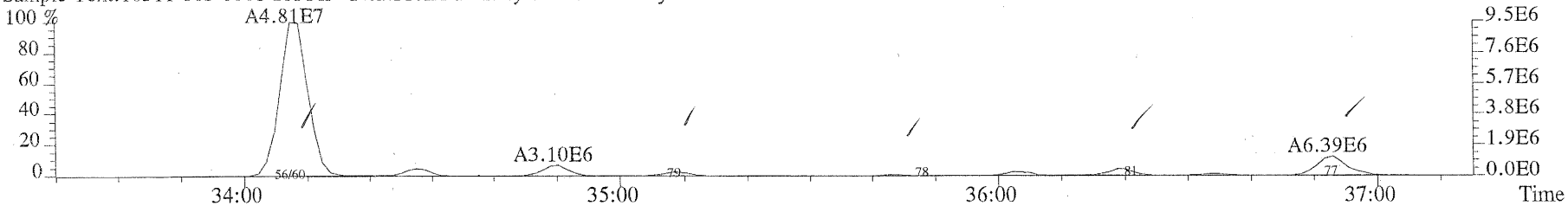
File:05JAN17Z #1-407 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



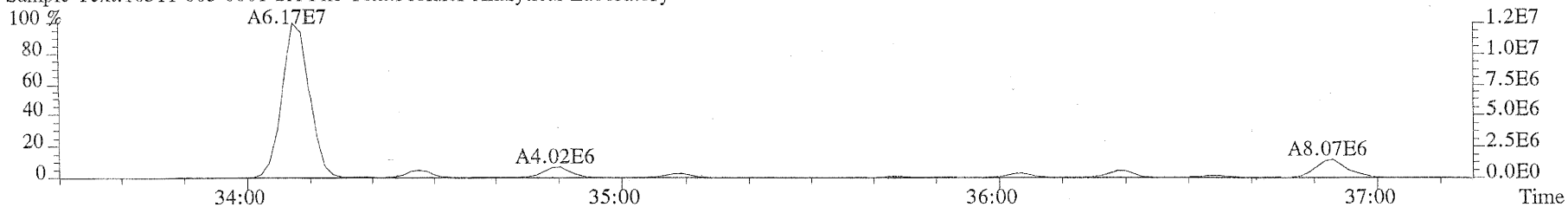
File:05JAN17Z #1-407 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



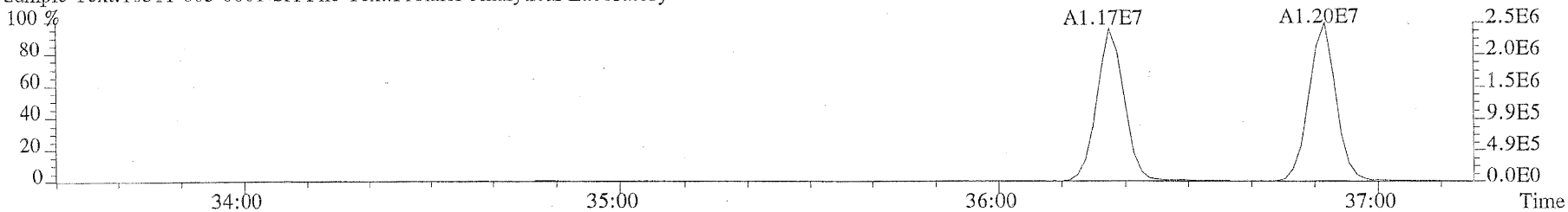
File:05JAN17Z #1-181 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



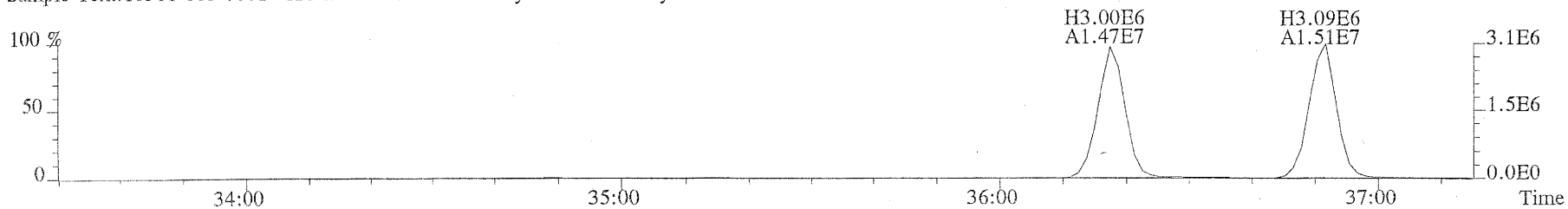
File:05JAN17Z #1-181 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



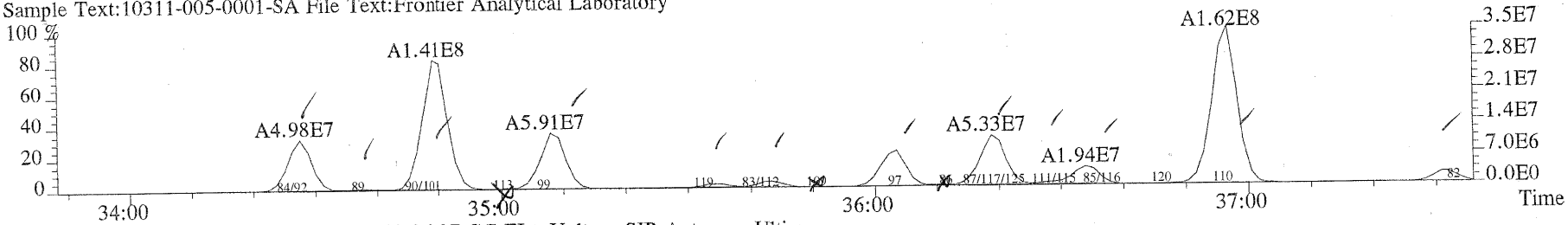
File:05JAN17Z #1-181 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



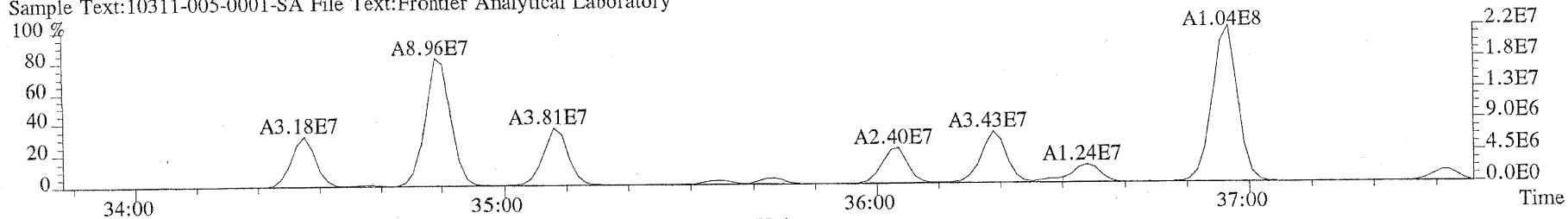
File:05JAN17Z #1-181 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



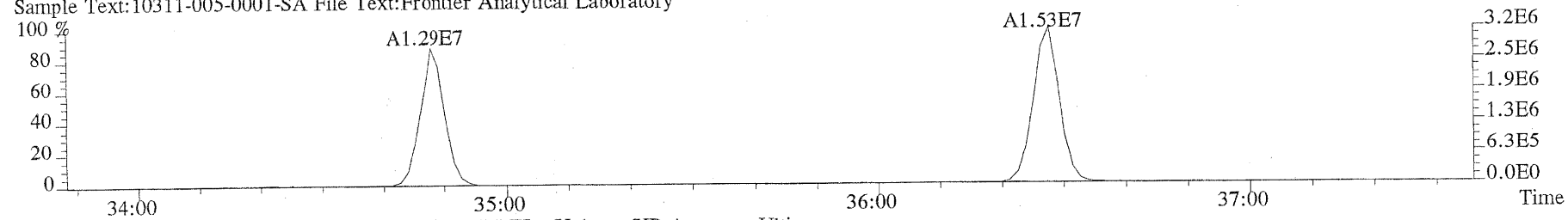
File:05JAN17Z #1-181 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



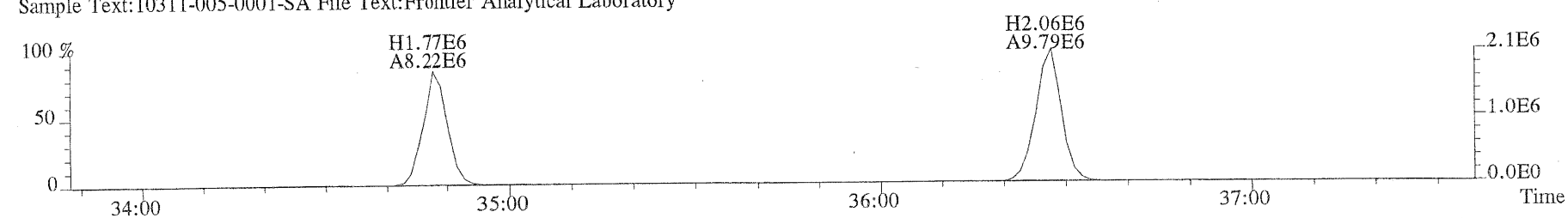
File:05JAN17Z #1-181 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



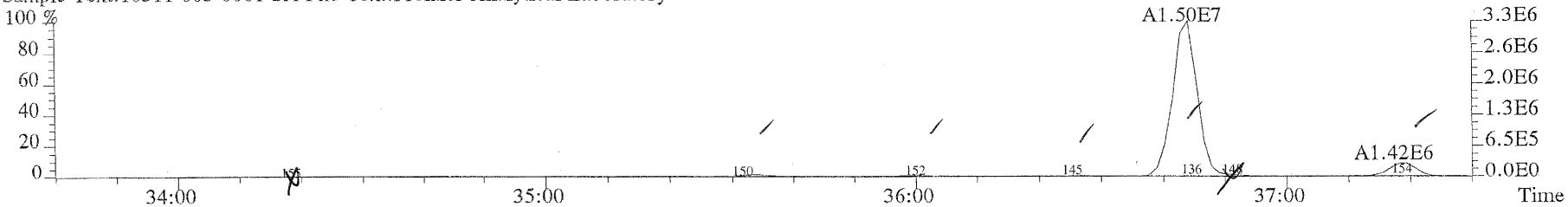
File:05JAN17Z #1-181 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



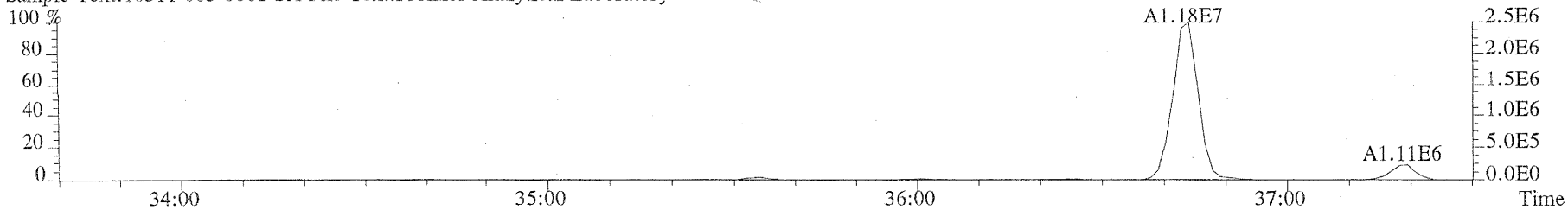
File:05JAN17Z #1-181 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



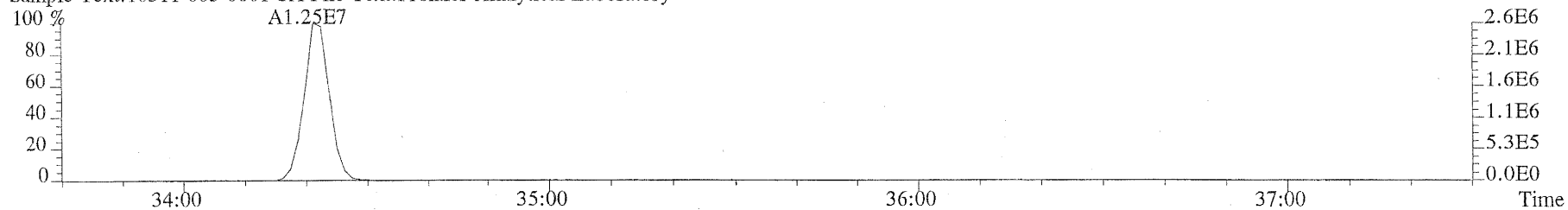
File:05JAN17Z #1-181 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



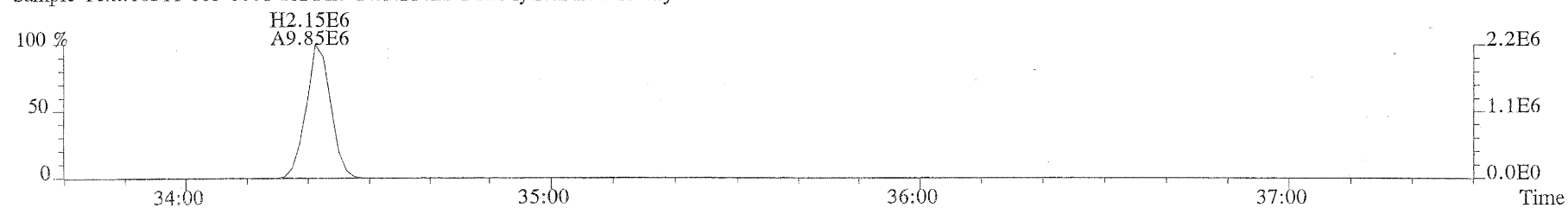
File:05JAN17Z #1-181 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



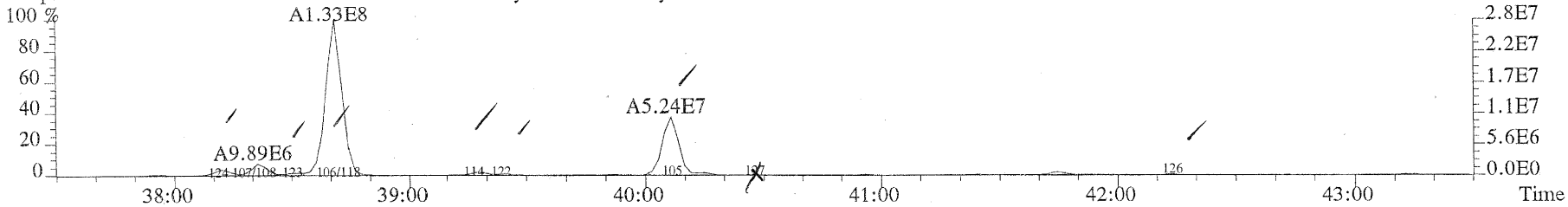
File:05JAN17Z #1-181 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



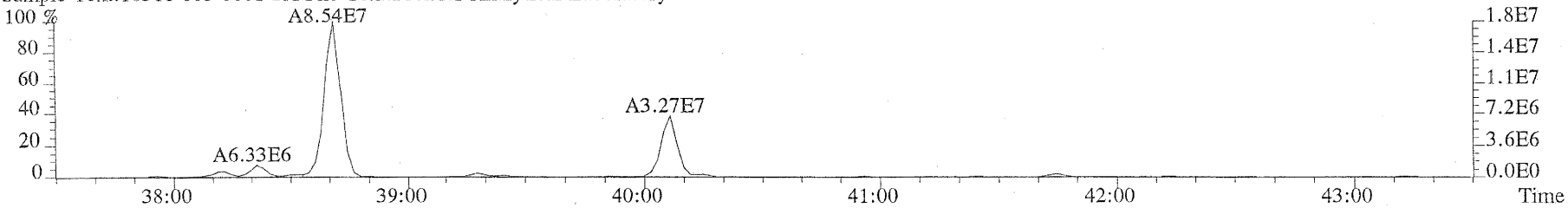
File:05JAN17Z #1-181 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



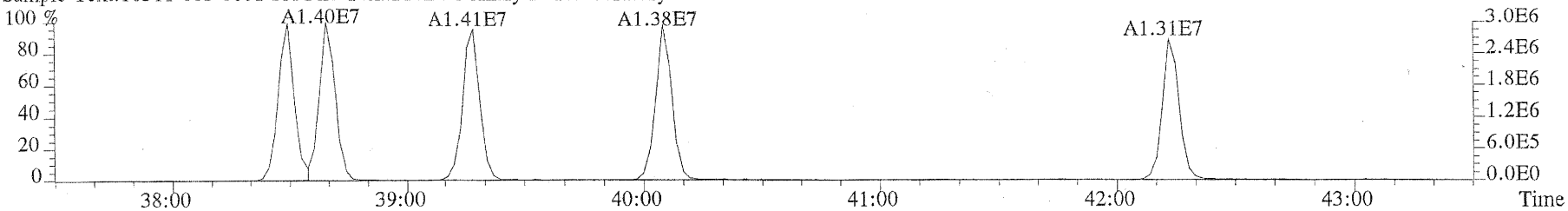
File:05JAN17Z #1-412 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



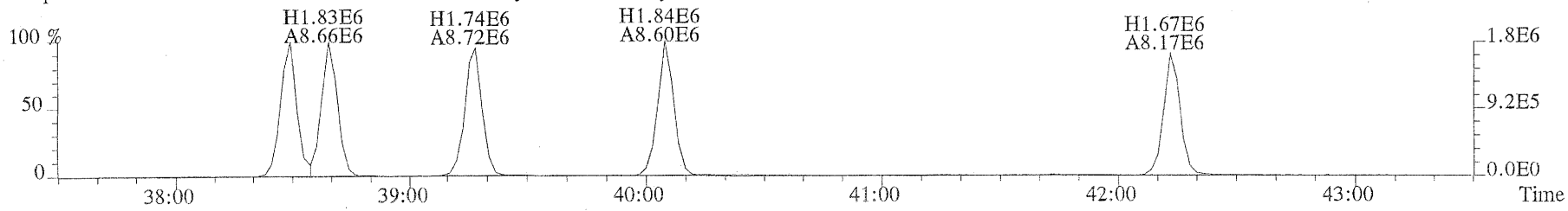
File:05JAN17Z #1-412 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



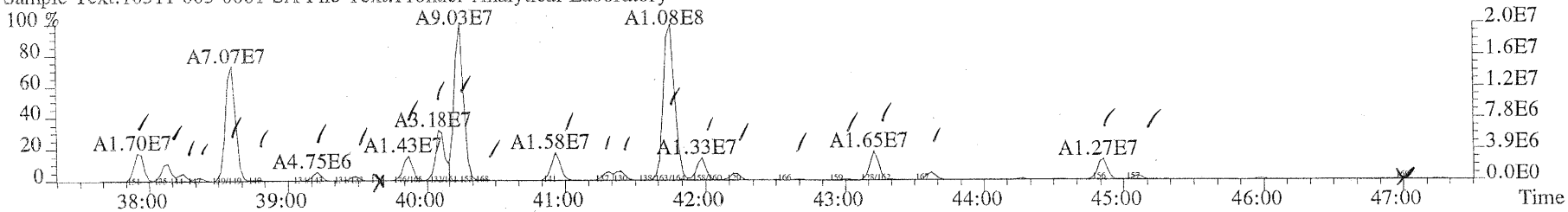
File:05JAN17Z #1-412 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



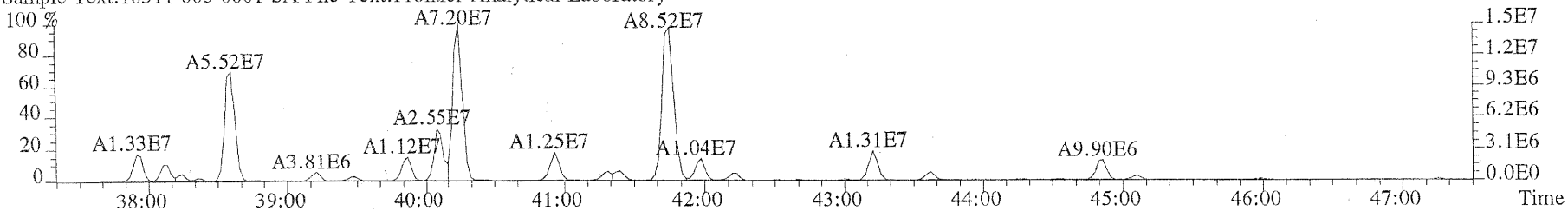
File:05JAN17Z #1-412 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



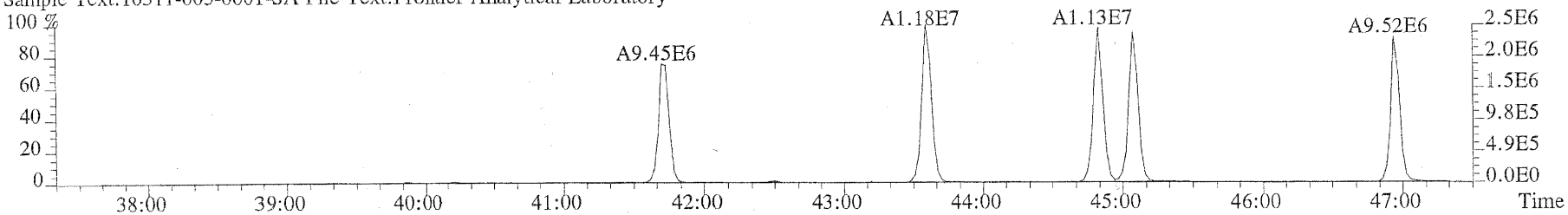
File:05JAN17Z #1-412 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



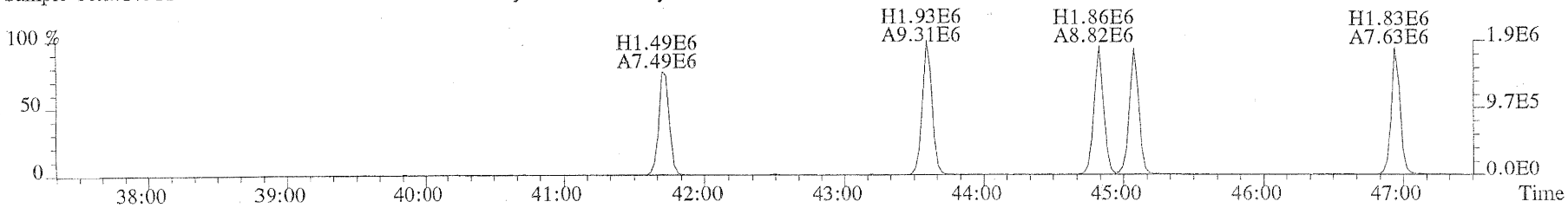
File:05JAN17Z #1-412 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



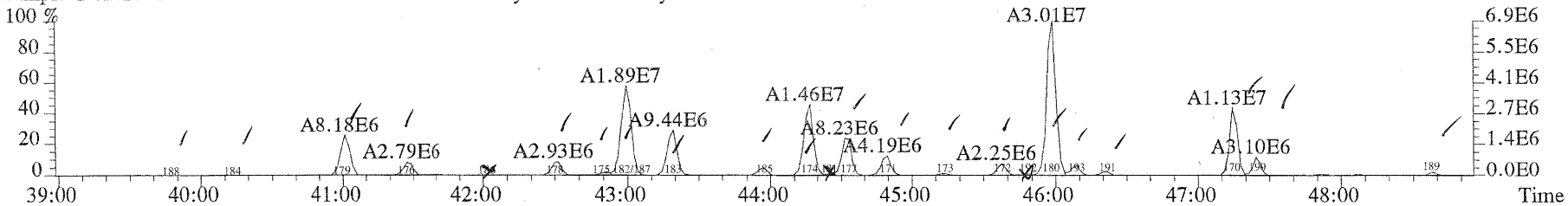
File:05JAN17Z #1-412 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



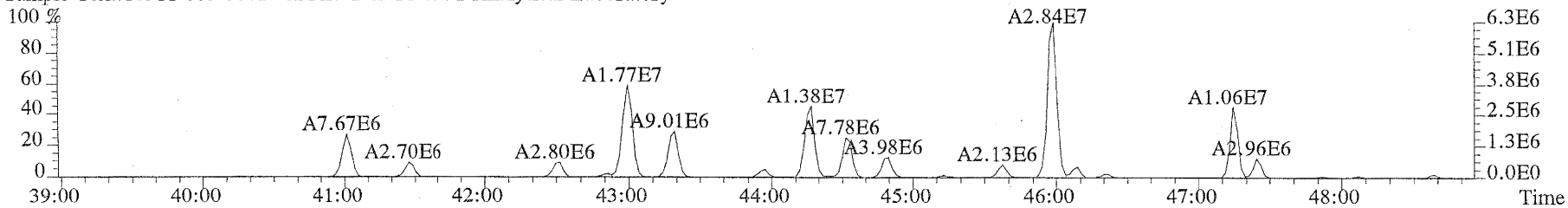
File:05JAN17Z #1-412 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



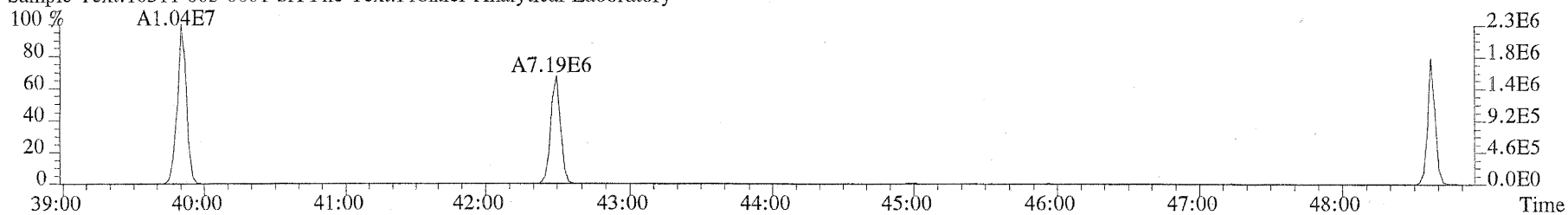
File:05JAN17Z #1-412 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



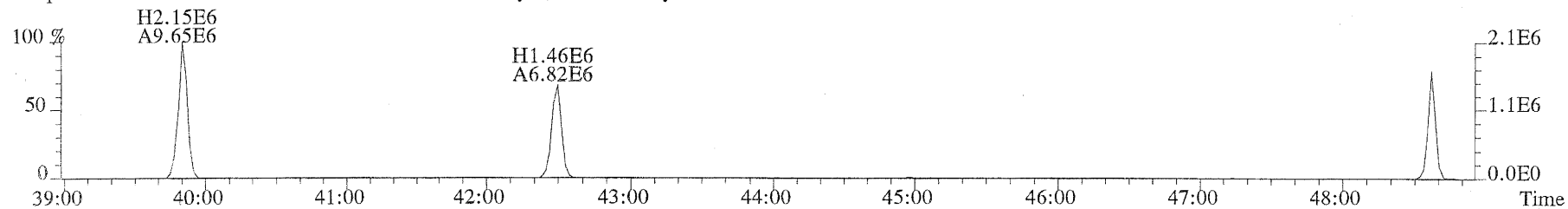
File:05JAN17Z #1-412 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



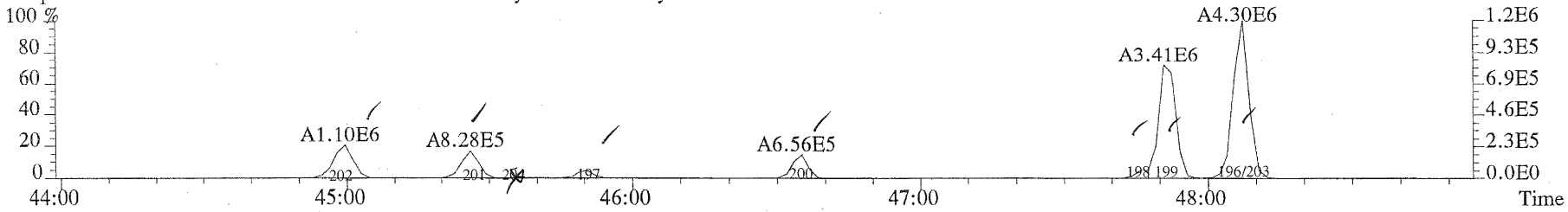
File:05JAN17Z #1-412 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



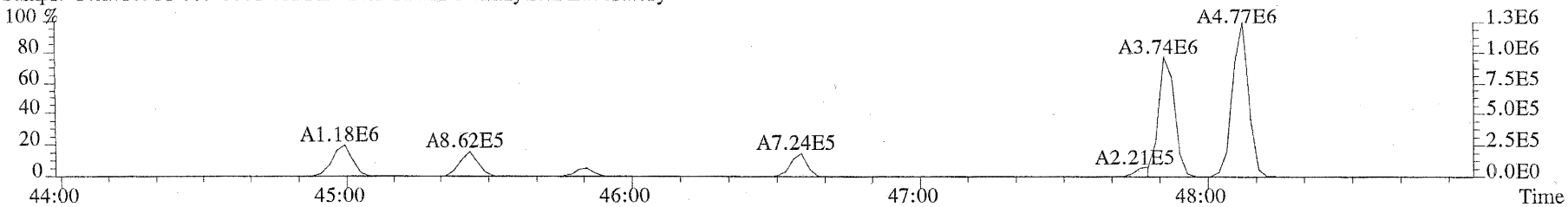
File:05JAN17Z #1-412 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



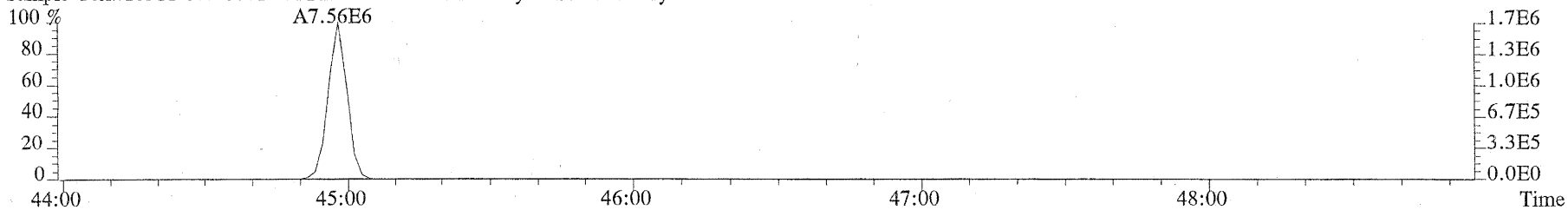
File:05JAN17Z #1-412 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



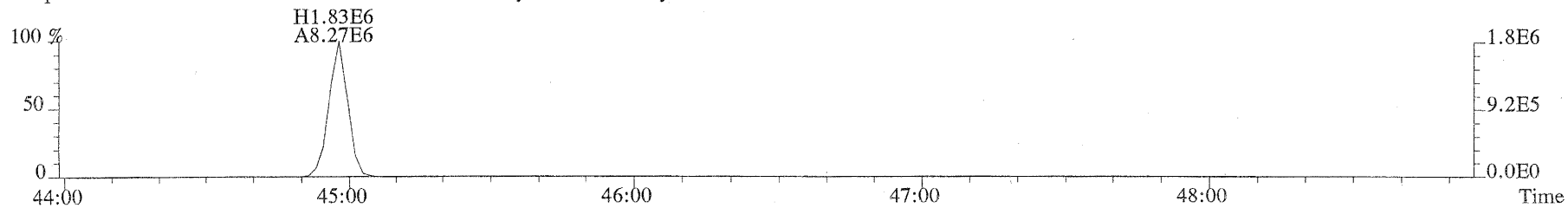
File:05JAN17Z #1-412 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



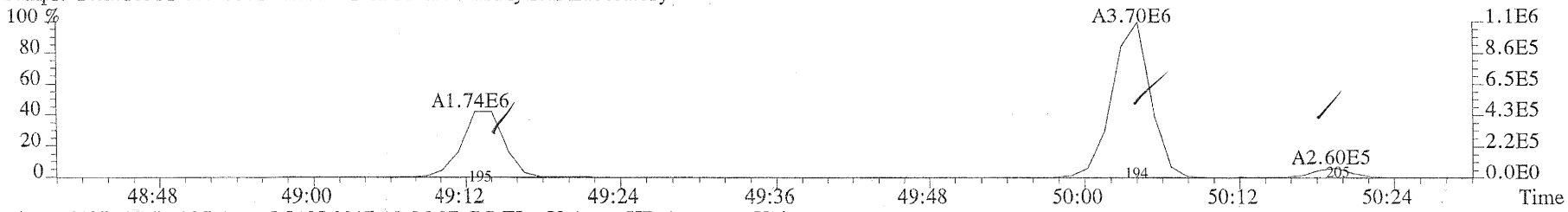
File:05JAN17Z #1-412 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



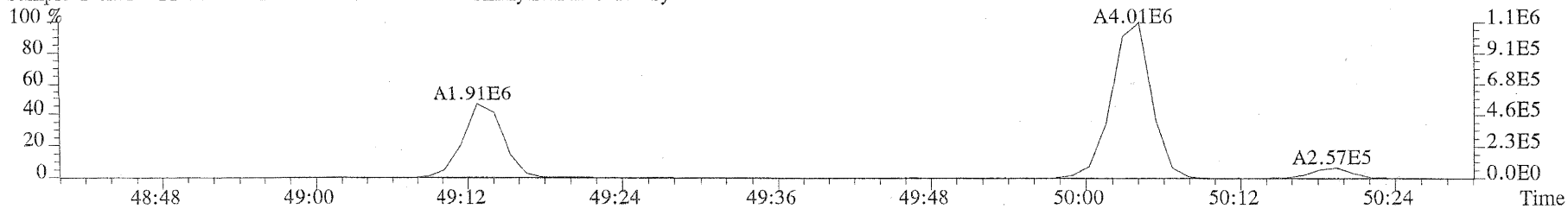
File:05JAN17Z #1-412 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



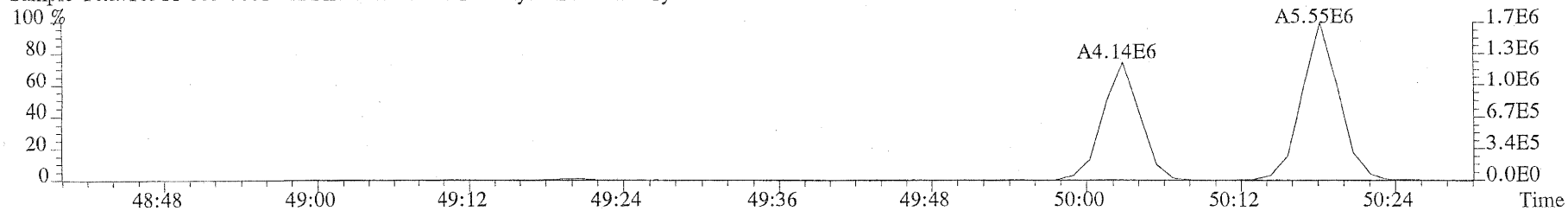
File:05JAN17Z #1-307 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



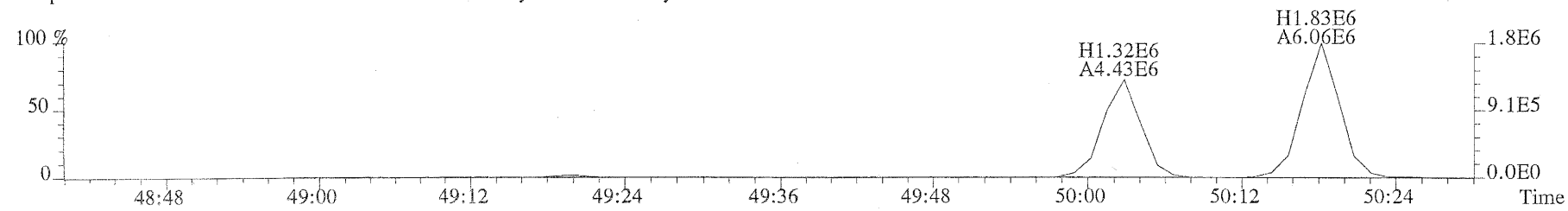
File:05JAN17Z #1-307 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



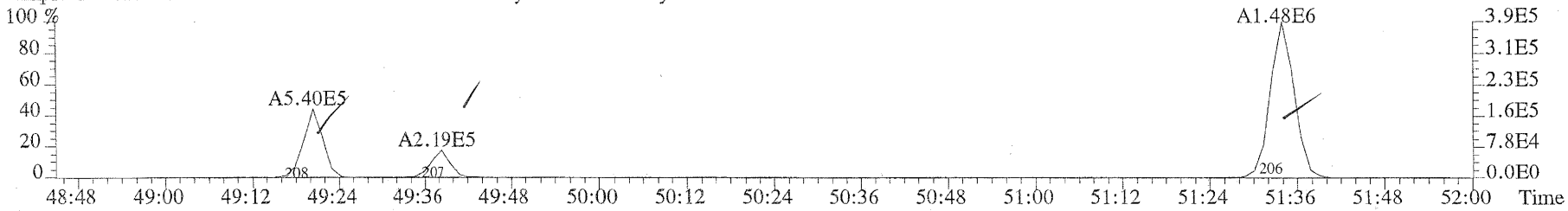
File:05JAN17Z #1-307 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



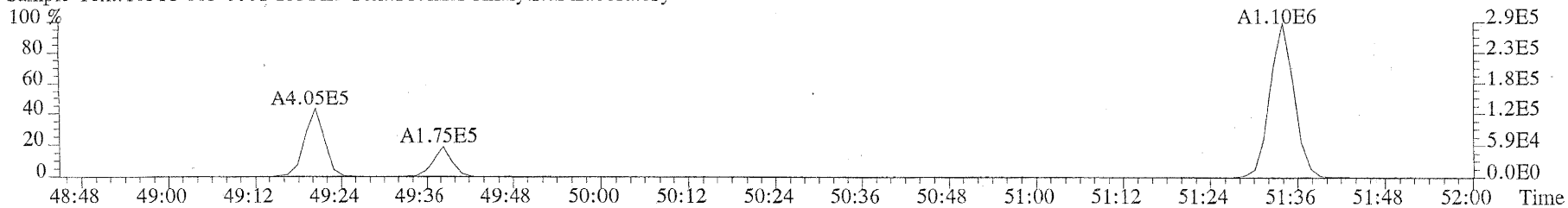
File:05JAN17Z #1-307 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-307 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-307 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



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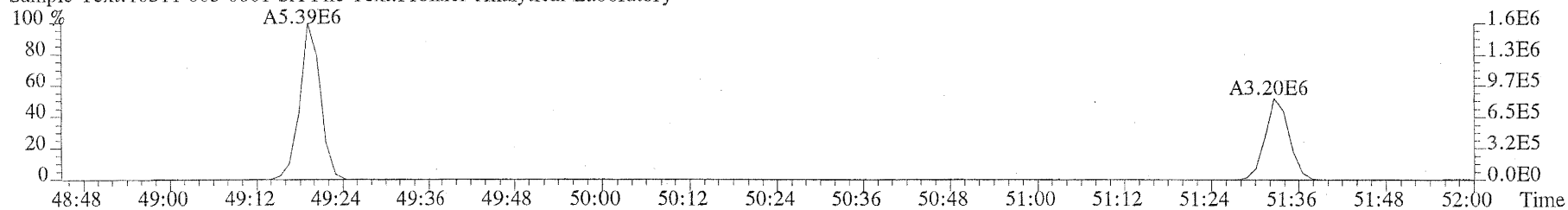
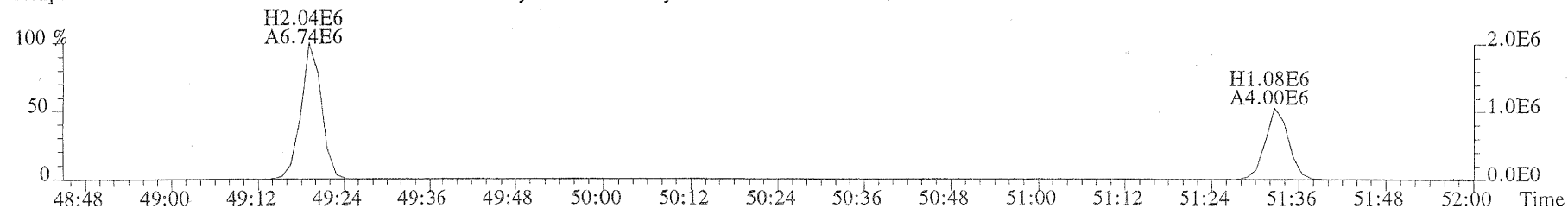
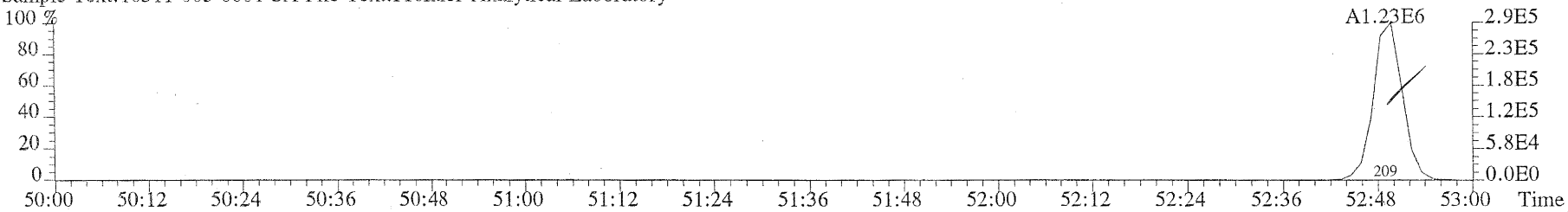
473.7648 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



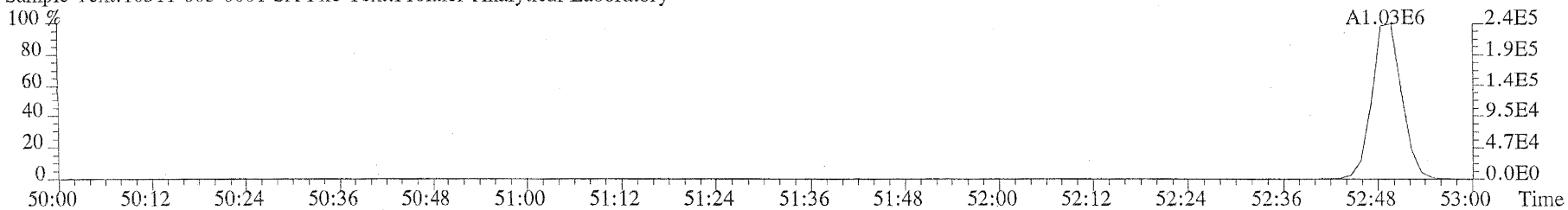
File:05JAN17Z #1-307 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



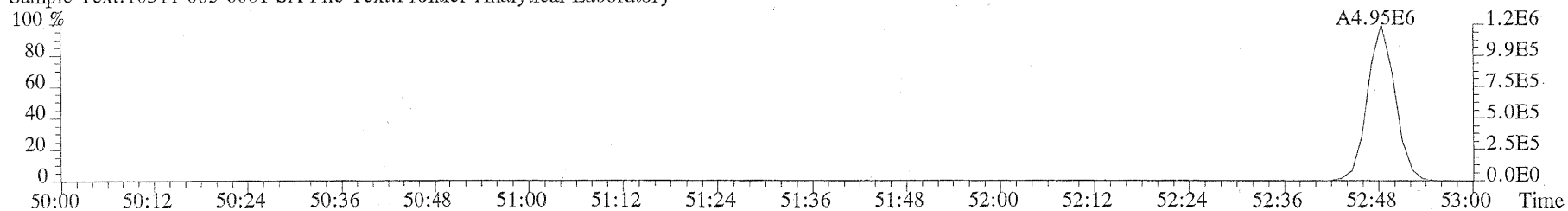
File:05JAN17Z #1-307 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



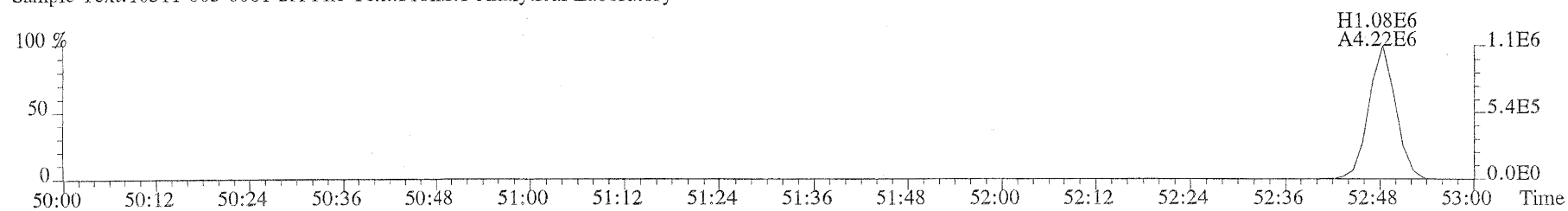
File:05JAN17Z #1-307 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-307 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-307 Acq: 5-JAN-2017 19:06:07 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-005-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10311-006-0001-SA Filename: 05JAN17Z Sam:11 Acquired: 5-JAN-17 20:04:27 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR-CC-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.020

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	5.27e+05	2.85 y	14:33	0.92	60.2		-	-	*	
13C-PCB-1	1.90e+07	3.04 y	14:32	1.09	1860					93.5
PCB-2	1.02e+05	3.26 y	16:47	0.87	11.8		-	-	*	
PCB-3	3.52e+05	3.17 y	17:00	0.92	37.4		-	-	*	
13C-PCB-3	2.04e+07	3.14 y	16:59	1.14	1930					96.7
PCB-4	2.51e+06	1.58 y	18:15	1.17	378		-	-	*	
PCB-10	3.33e+05	1.51 y	18:18	0.99	45.1		-	-	*	
13C-PCB-4	1.13e+07	1.59 y	18:14	0.62	1950					97.7
PCB-9	7.81e+05	1.36 y	19:58	1.11	93.7		-	-	*	
PCB-7	7.56e+05	1.41 y	19:59	1.13	89.5		-	-	*	
PCB-6	4.14e+06	1.52 y	20:35	1.11	498		-	-	*	
PCB-8	1.57e+07	1.53 y	20:57	1.12	1870		-	-	*	
PCB-5	8.58e+05	1.41 y	21:01	1.08	106		-	-	*	
PCB-14	*	* n	NotFnd	1.11	*		790	910	1.95	
PCB-11	3.62e+05	1.45 y	23:09	1.08	45.0		-	-	*	
PCB-13	1.25e+06	1.49 y	23:30	1.09	154		-	-	*	
PCB-12	4.59e+05	1.42 y	23:32	1.06	58.1		-	-	*	
PCB-15	9.88e+06	1.55 y	23:49	1.00	1060		-	-	*	
13C-PCB-15	1.85e+07	1.58 y	23:48	1.03	1930					96.7
PCB-19	1.41e+06	1.06 y	22:09	0.95	261		-	-	*	
PCB-30	*	* n	NotFnd	1.39	*		770	703	1.94	
PCB-18	1.91e+07	1.04 y	23:43	0.97	3500		-	-	*	
PCB-17	1.05e+07	1.04 y	23:53	1.04	1780		-	-	*	
PCB-27	1.60e+06	1.08 y	24:24	1.37	206		-	-	*	
PCB-24	6.70e+05	1.16 y	24:26	1.37	86.5		-	-	*	
PCB-16	7.31e+06	1.04 y	24:53	1.12	1160		-	-	*	
PCB-32	7.85e+06	1.06 y	24:55	1.25	1110		-	-	*	
13C-PCB-19	1.13e+07	1.06 y	22:08	0.65	1860					93.2
13C-PCB-9	1.86e+07	1.59 y	19:56	-	4.04					
PCB-34	3.51e+05	1.17 y	25:40	0.86	63.1		-	-	*	
PCB-23	4.88e+04	1.14 y	25:47	0.99	7.61		-	-	*	
PCB-29	3.37e+05	1.17 y	26:00	1.01	51.7		-	-	*	
PCB-26	8.46e+06	1.06 y	26:12	0.98	1340		-	-	*	
PCB-25	5.09e+06	1.07 y	26:21	1.19	663		-	-	*	
PCB-31	4.38e+07	1.02 y	26:41	1.04	6500		-	-	*	
PCB-28	5.05e+07	1.06 y	26:47	1.10	7100		-	-	*	
PCB-20	2.48e+07	1.06 y	27:24	1.04	3700		-	-	*	Co-elute PCB 21/33
PCB-21	2.48e+07	1.06 y	27:24	1.04	3700		-	-	*	Co-elute PCB 20/33
PCB-33	2.48e+07	1.06 y	27:24	1.04	3700		-	-	*	Co-elute PCB 20/21
PCB-22	1.52e+07	1.04 y	27:48	1.03	2280		-	-	*	
PCB-36	*	* n	NotFnd	0.99	*		490	395	1.93	
PCB-39	1.13e+05	1.14 y	28:51	0.99	17.8		-	-	*	
PCB-38	2.04e+05	1.10 y	29:35	1.00	31.5		-	-	*	
PCB-35	7.36e+05	1.09 y	30:06	0.94	121		-	-	*	
PCB-37	1.15e+07	1.03 y	30:33	1.06	1680		-	-	*	
13C-PCB-37	1.29e+07	1.09 y	30:32	1.18	2030					102

FAL ID: 10311-006-0001-SA Filename: 05JAN17Z Sam:11 Acquired: 5-JAN-17 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR-CC-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.020

PCB-54	7.57e+04	0.85	y	25:41	0.99	12.3	-	-	*	
PCB-50	1.03e+05	0.68	y	26:50	0.77	21.7	-	-	*	
PCB-53	3.55e+06	0.78	y	27:25	0.77	745	-	-	*	
PCB-51	1.19e+06	0.81	y	27:44	0.78	245	-	-	*	
PCB-45	3.11e+06	0.77	y	28:09	0.68	737	-	-	*	
PCB-46	1.13e+06	0.78	y	28:37	0.64	283	-	-	*	
PCB-52	3.96e+07	0.78	y	29:04	1.01	6310	-	-	*	Co-elute PCB 69
PCB-69	3.96e+07	0.78	y	29:04	1.01	6310	-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	0.89	*	460	550	1.89	
PCB-43	2.32e+07	0.77	y	29:21	0.76	4920	-	-	*	Co-elute PCB 49
PCB-49	2.32e+07	0.77	y	29:21	0.76	4920	-	-	*	Co-elute PCB 43
PCB-47	7.16e+06	0.76	y	29:34	0.95	1220	-	-	*	
PCB-48	6.70e+06	0.80	y	29:40	0.96	1120	-	-	*	Co-elute PCB 75
PCB-75	6.70e+06	0.80	y	29:40	0.96	1120	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.00	*	460	550	1.69	
PCB-62	*	*	n	NotFnd	0.93	*	460	550	1.82	
PCB-44	1.89e+07	0.78	y	30:21	0.69	4400	-	-	*	
PCB-42	8.21e+06	0.78	y	30:36	0.94	1410	-	-	*	Co-elute PCB 59
PCB-59	8.21e+06	0.78	y	30:36	0.94	1410	-	-	*	Co-elute PCB 42
PCB-72	2.15e+07	0.78	y	31:15	1.02	3390	-	-	*	Co-elute PCB 41/71/64
PCB-41	2.15e+07	0.78	y	31:15	1.02	3390	-	-	*	Co-elute PCB 72/71/64
PCB-71	2.15e+07	0.78	y	31:15	1.02	3390	-	-	*	Co-elute PCB 72/41/64
PCB-64	2.15e+07	0.78	y	31:15	1.02	3390	-	-	*	Co-elute PCB 72/41/71
PCB-68	1.91e+05	0.67	y	31:27	1.10	28.0	-	-	*	
PCB-40	2.46e+06	0.80	y	31:35	0.59	672	-	-	*	
PCB-57	2.62e+05	0.82	y	31:54	1.04	40.7	-	-	*	
PCB-67	1.48e+06	0.78	y	32:12	0.98	243	-	-	*	
PCB-58	1.75e+05	0.77	y	32:17	1.11	25.5	-	-	*	
PCB-63	1.86e+06	0.78	y	32:27	1.03	292	-	-	*	
PCB-74	2.22e+07	0.77	y	32:44	1.07	3350	-	-	*	
PCB-61	5.09e+07	0.77	y	32:55	1.12	7340	-	-	*	Co-elute PCB 70
PCB-70	5.09e+07	0.77	y	32:55	1.12	7340	-	-	*	Co-elute PCB 61
PCB-76	4.22e+07	0.78	y	33:06	1.07	6380	-	-	*	Co-elute PCB 66
PCB-66	4.22e+07	0.78	y	33:06	1.07	6380	-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.19	*	460	550	1.42	
PCB-55	7.73e+05	0.80	y	33:37	1.06	118	-	-	*	
13C-PCB-54	1.23e+07	0.80	y	25:40	1.05	2180				109
PCB-104	*	*	n	NotFnd	1.04	*	310	290	1.88	
PCB-96	2.58e+05	1.73	y	31:29	0.98	66.1	-	-	*	
PCB-103	5.00e+05	1.57	y	31:53	0.83	150	-	-	*	
PCB-100	2.06e+05	1.61	y	32:15	0.82	62.7	-	-	*	
PCB-94	2.04e+05	1.60	y	32:40	0.68	74.8	-	-	*	
PCB-98	*	*	n	NotFnd	0.87	*	310	290	2.24	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.87	*	310	290	2.24	Co-elute PCB 98
PCB-95	3.52e+07	1.59	y	33:10	0.71	12400	-	-	*	
PCB-93	*	*	n	NotFnd	0.67	*	310	290	2.91	
PCB-88	5.98e+06	1.57	y	33:33	0.77	1940	-	-	*	Co-elute PCB 91
PCB-91	5.98e+06	1.57	y	33:33	0.77	1940	-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.96	*	310	290	2.05	
13C-PCB-104	7.96e+06	1.60	y	30:09	0.92	1610				80.6
13C-PCB-28	1.65e+07	1.08	y	26:46	1.30	2370				119
13C-PCB-52	1.07e+07	0.78	y	29:02	-	3.28				

PCB-56	2.47e+07	0.78	y	34:04	1.01	3900		-	-	*	Co-elute PCB 60
PCB-60	2.47e+07	0.78	y	34:04	1.01	3900		-	-	*	Co-elute PCB 56
PCB-79	6.60e+05	0.80	y	35:06	1.04	102		-	-	*	
PCB-78	1.84e+05	0.76	y	35:40	0.99	29.7		-	-	*	
PCB-81	1.17e+06	0.76	y	36:17	1.06	179		-	-	*	
13C-PCB-81	1.23e+07	0.80	y	36:15	1.07	2050					103
PCB-77	3.58e+06	0.76	y	36:50	0.98	578		-	-	*	
13C-PCB-77	1.27e+07	0.79	y	36:49	1.08	2080					105
PCB-155	*	*	n	NotFnd	0.98	*		410	390	1.42	
PCB-150	1.11e+05	1.30	y	35:32	0.89	21.0		-	-	*	
PCB-152	5.84e+04	1.27	y	35:58	0.87	11.3		-	-	*	
PCB-145	2.89e+04	1.27	y	36:23	0.85	5.70		-	-	*	
PCB-136	7.71e+06	1.25	y	36:41	0.87	1490		-	-	*	
PCB-148	*	*	n	NotFnd	0.64	*		410	390	2.18	
PCB-154	6.55e+05	1.18	y	37:16	0.77	143		-	-	*	
13C-PCB-155	1.18e+07	1.26	y	34:18	1.11	1900					95.1
13C-PCB-111	1.28e+07	1.57	y	36:25	1.14	2010					101
13C-PCB-101	1.12e+07	1.61	y	34:45	-	3.64					
PCB-84	1.96e+07	1.57	y	34:25	0.79	4570		-	-	*	Co-elute PCB 92
PCB-92	1.96e+07	1.57	y	34:25	0.79	4570		-	-	*	Co-elute PCB 84
PCB-89	4.64e+05	1.47	y	34:35	0.76	113		-	-	*	
PCB-90	5.54e+07	1.57	y	34:46	0.87	11700		-	-	*	Co-elute PCB 101
PCB-101	5.54e+07	1.57	y	34:46	0.87	11700		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.99	*		400	310	1.47	
PCB-99	2.35e+07	1.56	y	35:05	0.97	4460		-	-	*	
PCB-119	1.54e+06	1.61	y	35:32	1.13	251		-	-	*	
PCB-83	2.45e+06	1.51	y	35:40	0.87	514		-	-	*	Co-elute PCB 112
PCB-112	2.45e+06	1.51	y	35:40	0.87	514		-	-	*	Co-elute PCB 83
PCB-109	2.50e+04	1.55	y	35:49	1.05	4.36		-	-	*	
PCB-97	1.46e+07	1.56	y	36:01	0.95	2830		-	-	*	
PCB-86	*	*	n	NotFnd	0.76	*		400	310	1.90	
PCB-125	2.16e+07	1.55	y	36:17	1.00	3960		-	-	*	Co-elute PCB 87/117
PCB-87	2.16e+07	1.55	y	36:17	1.00	3960		-	-	*	Co-elute PCB 125/117
PCB-117	2.16e+07	1.55	y	36:17	1.00	3960		-	-	*	Co-elute PCB 125/87
PCB-111	1.21e+06	1.55	y	36:26	1.21	183		-	-	*	Co-elute PCB 115
PCB-115	1.21e+06	1.55	y	36:26	1.21	183		-	-	*	Co-elute PCB 111
PCB-85	8.01e+06	1.55	y	36:32	0.95	1550		-	-	*	Co-elute PCB 116
PCB-116	8.01e+06	1.55	y	36:32	0.95	1550		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.17	*		400	310	1.25	
PCB-110	6.61e+07	1.55	y	36:54	1.15	10500		-	-	*	
PCB-82	4.46e+06	1.56	y	37:29	0.66	1250		-	-	*	
PCB-124	2.22e+06	1.50	y	38:09	0.92	444		-	-	*	
PCB-108	3.72e+06	1.58	y	38:19	1.02	669		-	-	*	Co-elute PCB 107
PCB-107	3.72e+06	1.58	y	38:19	1.02	669		-	-	*	Co-elute PCB 108
PCB-123	8.24e+05	1.50	y	38:27	1.10	138		-	-	*	
13C-PCB-123	1.08e+07	1.59	y	38:26	1.05	2150					108
PCB-118	5.01e+07	1.58	y	38:37	0.92	9890		-	-	*	Co-elute PCB 106
PCB-106	5.01e+07	1.58	y	38:37	0.92	9890		-	-	*	Co-elute PCB 118
13C-PCB-118	1.09e+07	1.61	y	38:37	1.10	2080					104
PCB-114	1.19e+06	1.51	y	39:15	0.95	231		-	-	*	
13C-PCB-114	1.08e+07	1.62	y	39:14	1.05	2160					108
PCB-122	6.47e+05	1.50	y	39:22	1.02	117		-	-	*	
PCB-105	1.91e+07	1.54	y	40:03	0.99	3540		-	-	*	
13C-PCB-105	1.08e+07	1.59	y	40:03	1.06	2130					107

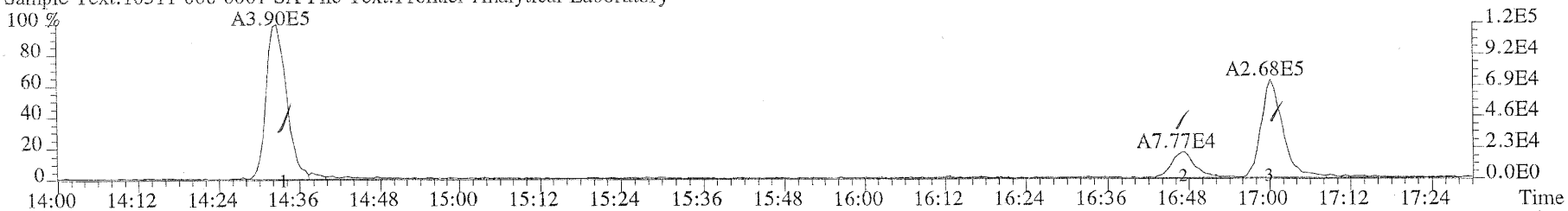
PCB-127	*	*	n	NotFnd	0.92	*		310	350	1.47	
PCB-126	1.40e+05	1.50	y	42:11	1.00	27.5		-	-	*	
13C-PCB-126	1.01e+07	1.59	y	42:11	1.00	2100					106
PCB-151	8.53e+06	1.29	y	37:53	0.67	2480		-	-	*	
PCB-135	5.21e+06	1.28	y	38:04	0.72	1430		-	-	*	
PCB-144	2.09e+06	1.26	y	38:13	0.67	608		-	-	*	
PCB-147	9.44e+05	1.32	y	38:19	0.76	243		-	-	*	
PCB-139	3.58e+07	1.26	y	38:34	0.76	9260		-	-	*	Co-elute PCB 149
PCB-149	3.58e+07	1.26	y	38:34	0.76	9260		-	-	*	Co-elute PCB 139
PCB-140	2.44e+05	1.13	y	38:44	0.73	65.2		-	-	*	
PCB-143	2.33e+06	1.24	y	39:10	0.69	662		-	-	*	Co-elute PCB 134
PCB-134	2.33e+06	1.24	y	39:10	0.69	662		-	-	*	Co-elute PCB 143
PCB-131	1.27e+06	1.25	y	39:27	0.71	352		-	-	*	Co-elute PCB 133
PCB-133	1.27e+06	1.25	y	39:27	0.71	352		-	-	*	Co-elute PCB 131
PCB-142	1.25e+04	1.27	y	39:35	0.62	3.92	J	-	-	*	
PCB-165	6.60e+06	1.26	y	39:48	0.85	1520		-	-	*	Co-elute PCB 146
PCB-146	6.60e+06	1.26	y	39:48	0.85	1520		-	-	*	Co-elute PCB 165
PCB-161	1.41e+07	1.37	y	40:03	0.79	3520		-	-	*	Co-elute PCB 132
PCB-132	1.41e+07	1.37	y	40:03	0.79	3520		-	-	*	Co-elute PCB 161
PCB-153	4.54e+07	1.23	y	40:11	0.84	10600		-	-	*	
PCB-168	7.28e+04	1.23	y	40:24	0.91	15.7		-	-	*	
PCB-141	7.99e+06	1.27	y	40:54	0.74	2130		-	-	*	
PCB-137	2.31e+06	1.20	y	41:15	0.65	698		-	-	*	
PCB-130	2.55e+06	1.28	y	41:22	0.69	729		-	-	*	
PCB-138	5.25e+07	1.26	y	41:42	0.95	10800		-	-	*	Co-elute PCB 163/164
PCB-163	5.25e+07	1.26	y	41:42	0.95	10800		-	-	*	Co-elute PCB 138/164
PCB-164	5.25e+07	1.26	y	41:42	0.95	10800		-	-	*	Co-elute PCB 138/163
PCB-158	6.47e+06	1.29	y	41:57	0.94	1350		-	-	*	Co-elute PCB 160
PCB-160	6.47e+06	1.29	y	41:57	0.94	1350		-	-	*	Co-elute PCB 158
PCB-129	1.91e+06	1.28	y	42:10	0.59	636		-	-	*	
PCB-166	2.31e+05	1.25	y	42:38	0.90	50.2		-	-	*	
PCB-159	4.39e+05	1.24	y	42:57	0.96	89.2		-	-	*	
PCB-128	7.62e+06	1.28	y	43:11	0.81	1840		-	-	*	Co-elute PCB 162
PCB-162	7.62e+06	1.28	y	43:11	0.81	1840		-	-	*	Co-elute PCB 128
PCB-167	2.21e+06	1.23	y	43:34	0.88	468		-	-	*	
13C-PCB-167	1.07e+07	1.26	y	43:34	1.16	1940					97.3
PCB-156	5.85e+06	1.27	y	44:48	0.92	1220		-	-	*	
13C-PCB-156	1.03e+07	1.25	y	44:48	1.11	1950					97.9
PCB-157	1.25e+06	1.25	y	45:02	0.94	254		-	-	*	
13C-PCB-157	1.04e+07	1.22	y	45:02	1.14	1910					95.7
PCB-169	*	*	n	NotFnd	0.89	*		560	430	2.51	
13C-PCB-169	9.21e+06	1.23	y	46:54	1.10	1750					88.1

FAL ID: 10311-006-0001-SA Filename: 05JAN17Z Sam:11 Acquired: 5-JAN-17 20:04:27 ICal: DAILY209FAL4-1-5-17
Client ID: LDW-BA-SU-ENR-CC-CORE ConCal: ST010517Z1 EndCal: ST010517Z2
Results: 9402-10 GC Column: DB1 Amount: 5.020

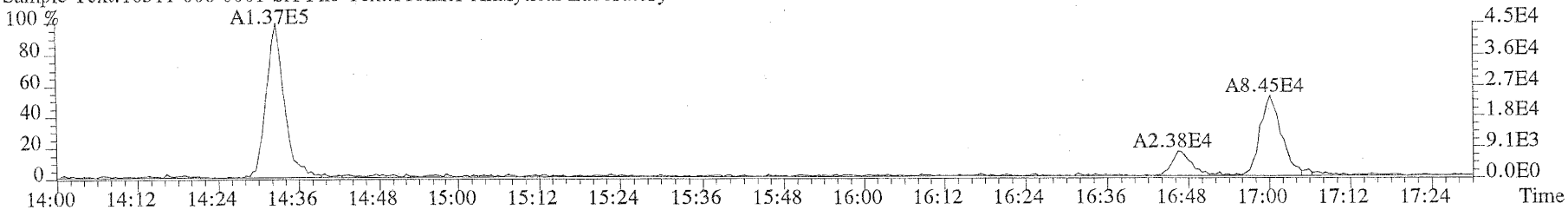
PCB-188	3.66e+04	0.99	y	39:50	1.04	6.87		-	-	*	
13C-PCB-188	1.03e+07	1.09	y	39:48	1.22	1760					88.2
PCB-184	*	*	n	NotFnd	1.08	*		310	308	1.16	
PCB-179	5.95e+06	1.06	y	40:59	1.03	1270		-	-	*	
PCB-176	1.97e+06	1.05	y	41:25	1.01	428		-	-	*	
PCB-186	*	*	n	NotFnd	1.00	*		310	308	1.25	
PCB-178	2.10e+06	1.04	y	42:28	0.73	627		-	-	*	
PCB-175	4.18e+05	0.99	y	42:48	0.76	120		-	-	*	
PCB-187	1.36e+07	1.06	y	42:57	0.84	3540		-	-	*	Co-elute PCB 182
PCB-182	1.36e+07	1.06	y	42:57	0.84	3540		-	-	*	Co-elute PCB 187
PCB-183	6.42e+06	1.06	y	43:16	0.83	1700		-	-	*	
PCB-185	1.17e+06	1.12	y	43:53	0.77	334		-	-	*	
PCB-174	9.95e+06	1.04	y	44:15	0.76	2880		-	-	*	
PCB-181	*	*	n	NotFnd	0.77	*		310	308	1.62	
PCB-177	5.64e+06	1.04	y	44:30	0.69	1780		-	-	*	
PCB-171	2.81e+06	1.04	y	44:48	0.73	843		-	-	*	
PCB-173	2.27e+05	1.00	y	45:11	0.67	74.8		-	-	*	
PCB-172	1.61e+06	1.06	y	45:35	0.69	508		-	-	*	
PCB-192	*	*	n	NotFnd	0.91	*		310	308	1.38	
PCB-180	2.11e+07	1.06	y	45:55	0.92	5050		-	-	*	
PCB-193	1.43e+06	1.09	y	46:05	0.97	323		-	-	*	
PCB-191	5.10e+05	1.08	y	46:18	0.97	115		-	-	*	
PCB-170	8.21e+06	1.03	y	47:13	0.68	2630		-	-	*	
PCB-190	2.17e+06	1.07	y	47:22	0.93	509		-	-	*	
PCB-189	3.90e+05	1.05	y	48:36	0.99	99.1		-	-	*	
13C-PCB-189	7.92e+06	1.08	y	48:35	1.10	1500					75.5
PCB-202	9.41e+05	0.89	y	44:58	0.86	241		-	-	*	
PCB-201	7.01e+05	0.88	y	45:24	0.86	179		-	-	*	
PCB-204	*	*	n	NotFnd	0.87	*		295	315	1.67	
PCB-197	1.98e+05	0.92	y	45:49	0.88	49.3		-	-	*	
PCB-200	6.00e+05	0.92	y	46:33	0.88	149		-	-	*	
PCB-198	1.52e+05	0.89	y	47:44	0.65	51.1		-	-	*	
PCB-199	3.17e+06	0.95	y	47:50	0.60	1160		-	-	*	
PCB-203	3.72e+06	0.92	y	48:05	0.68	1210		-	-	*	Co-elute PCB 196
PCB-196	3.72e+06	0.92	y	48:05	0.68	1210		-	-	*	Co-elute PCB 203
13C-PCB-202	9.06e+06	0.94	y	44:56	1.09	1740					87.4
13C-PCB-178	7.75e+06	1.07	y	42:28	0.89	1820					91.5
13C-PCB-138	9.51e+06	1.27	y	41:40	-	3.50					
PCB-195	1.37e+06	0.89	y	49:11	0.70	538		-	-	*	
PCB-194	3.35e+06	0.93	y	50:01	0.75	1230		-	-	*	
PCB-205	2.27e+05	0.96	y	50:17	0.98	63.8		-	-	*	
13C-PCB-205	7.21e+06	0.91	y	50:17	1.24	1960					98.4
PCB-208	3.04e+05	1.35	y	49:18	0.90	91.4		-	-	*	
13C-PCB-208	7.36e+06	0.82	y	49:18	1.34	1860					93.1
PCB-207	1.76e+05	1.33	y	49:37	0.98	57.7		-	-	*	
PCB-206	9.19e+05	1.37	y	51:33	0.92	400		-	-	*	
13C-PCB-206	4.96e+06	0.80	y	51:31	0.96	1740					87.3
PCB-209	4.34e+05	1.17	y	52:48	0.97	131		-	-	*	
13C-PCB-209	6.78e+06	1.21	y	52:47	1.40	1640					82.4
13C-PCB-194	5.90e+06	0.91	y	50:00	-	2.93					

Analyst: _____ Date: 1/9/17

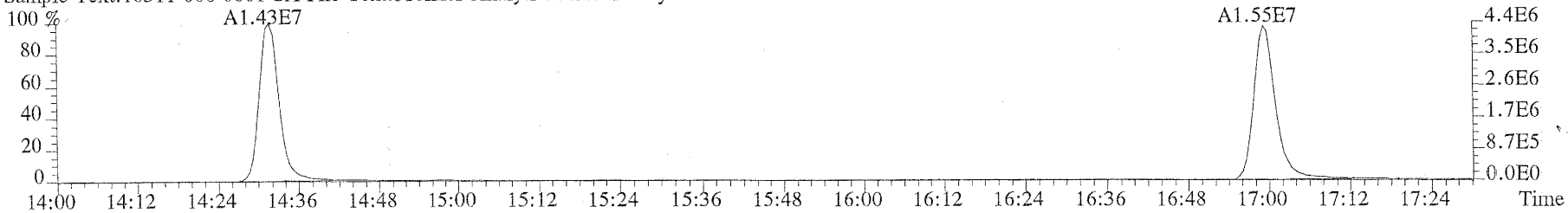
File:05JAN17Z #1-783 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



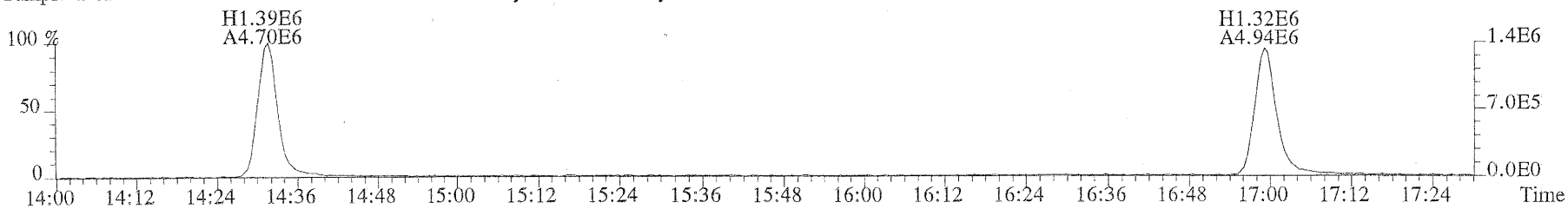
File:05JAN17Z #1-783 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



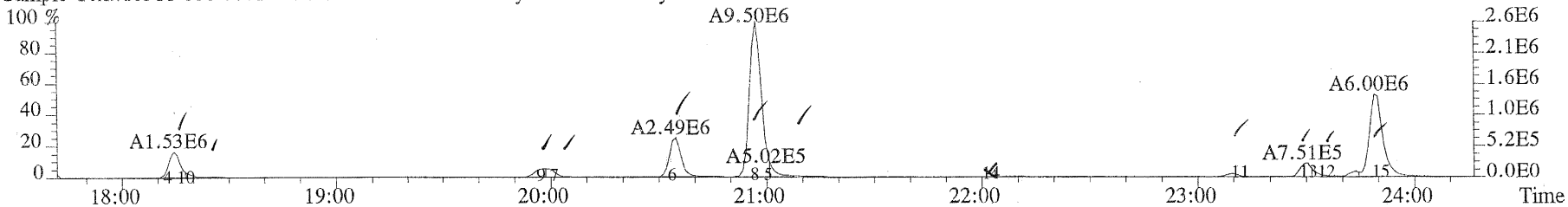
File:05JAN17Z #1-783 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



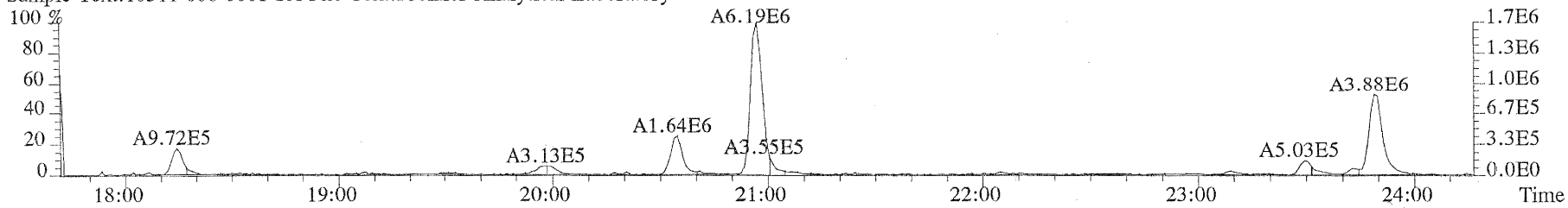
File:05JAN17Z #1-783 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



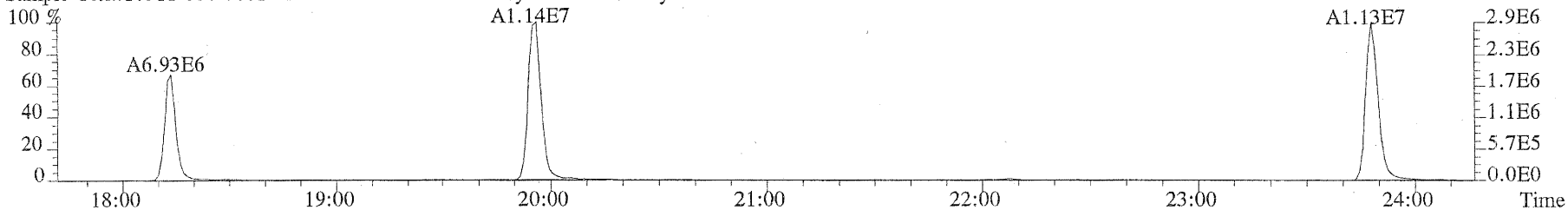
File:05JAN17Z #1-509 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



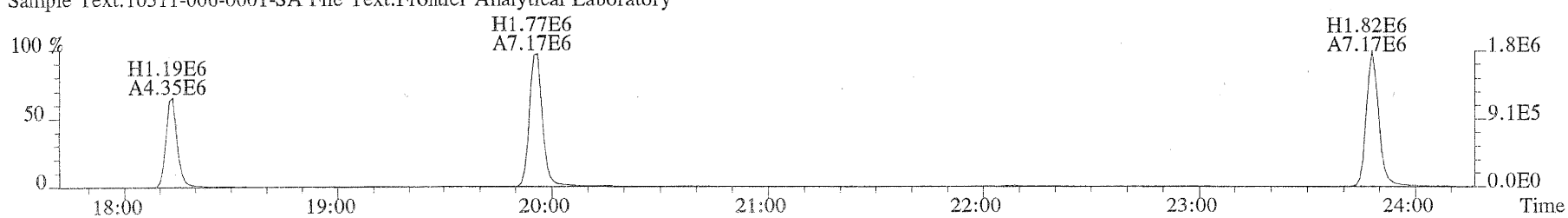
File:05JAN17Z #1-509 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



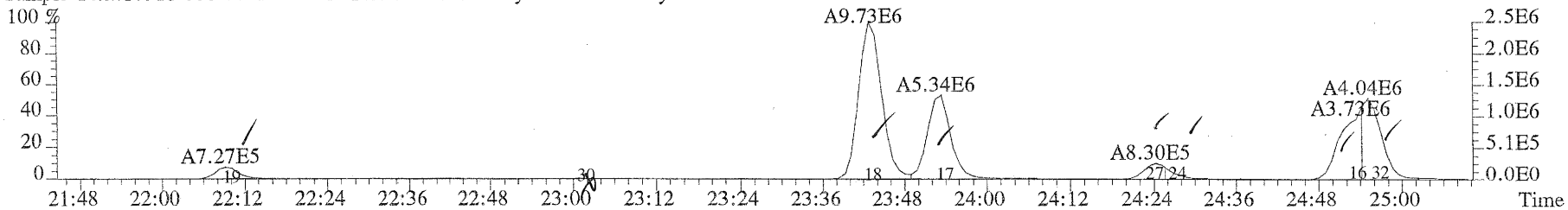
File:05JAN17Z #1-509 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



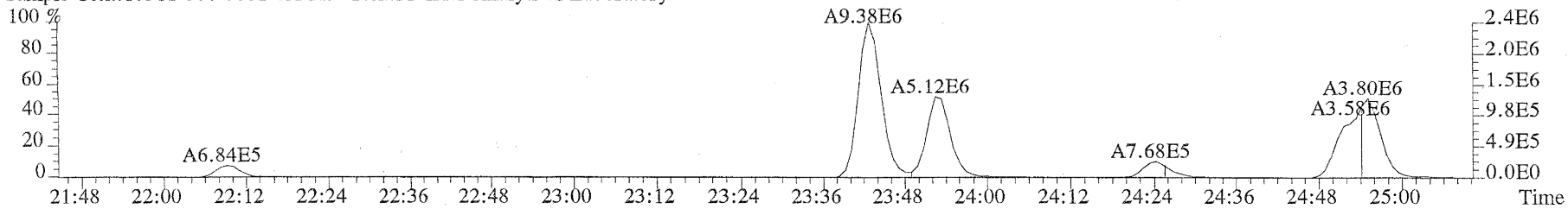
File:05JAN17Z #1-509 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



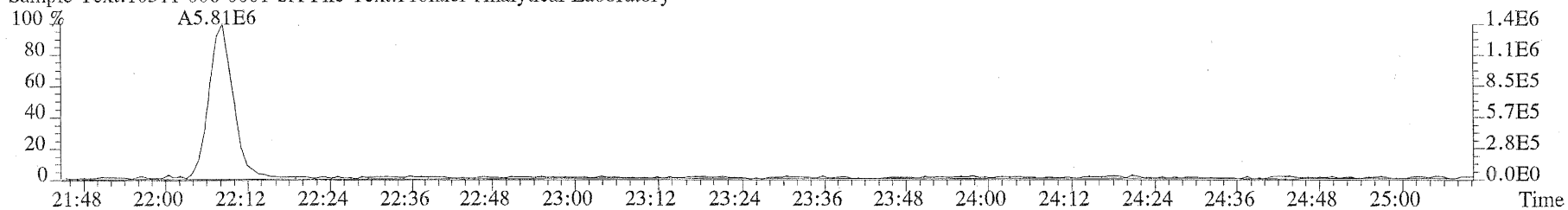
File:05JAN17Z #1-509 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



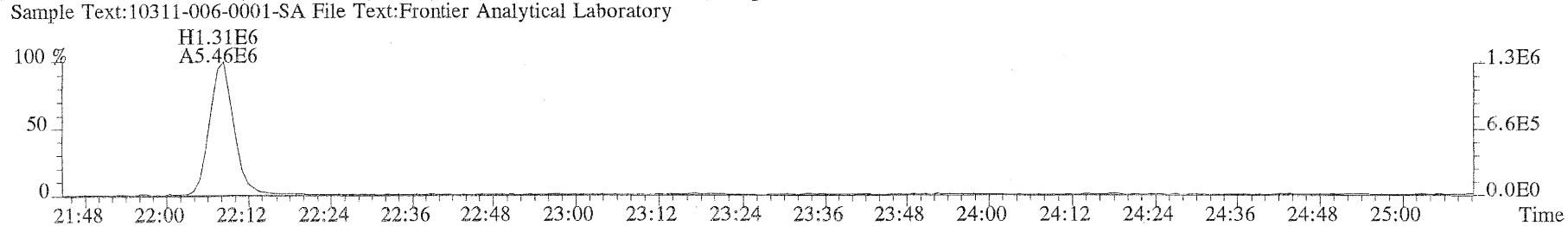
File:05JAN17Z #1-509 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



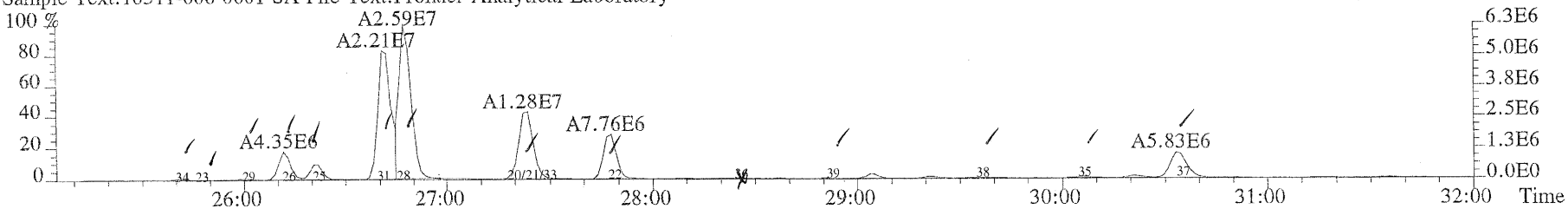
File:05JAN17Z #1-509 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



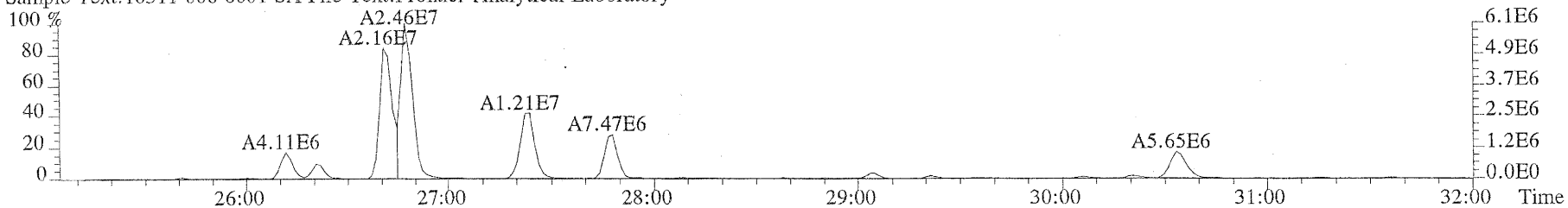
File:05JAN17Z #1-509 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



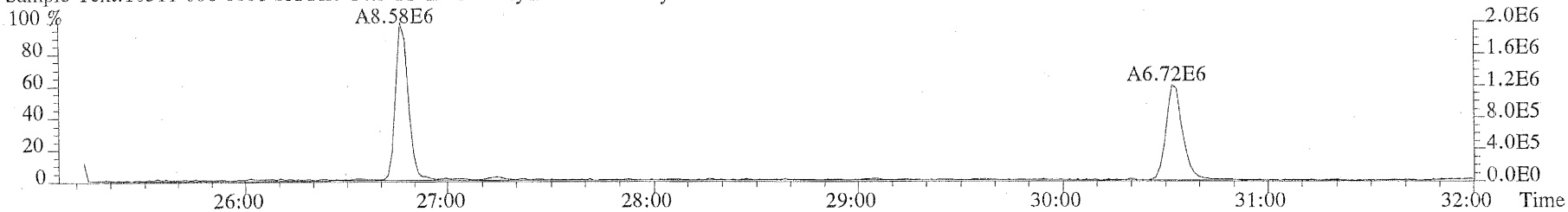
File:05JAN17Z #1-407 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



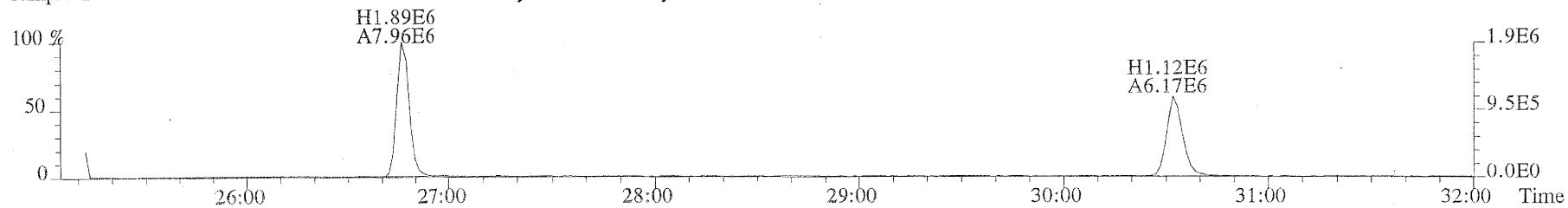
File:05JAN17Z #1-407 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



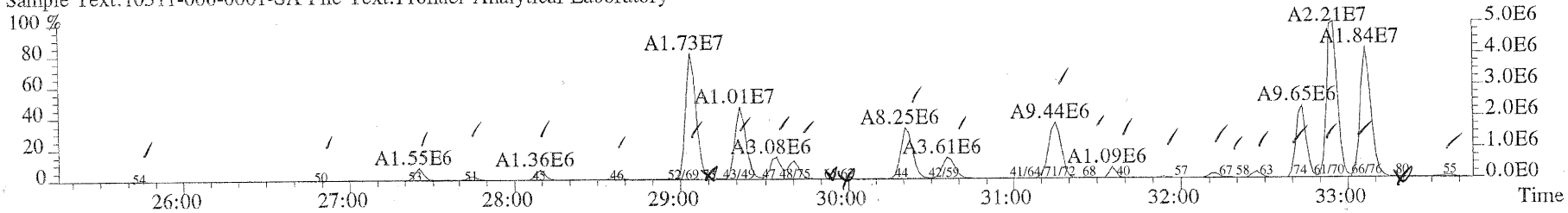
File:05JAN17Z #1-407 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



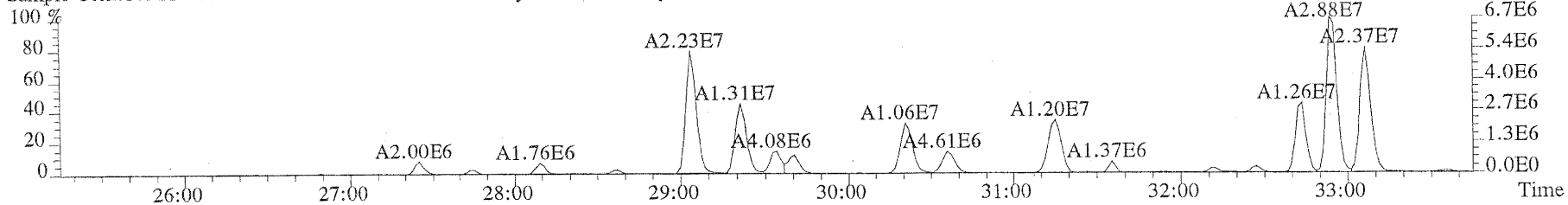
File:05JAN17Z #1-407 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



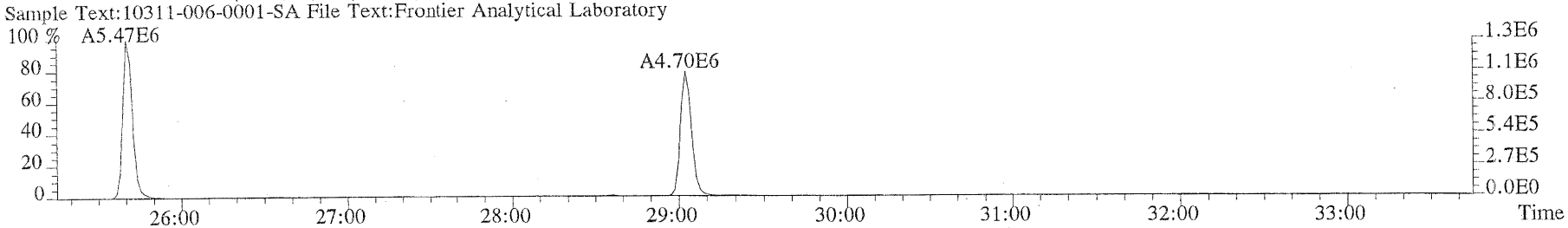
File:05JAN17Z #1-407 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



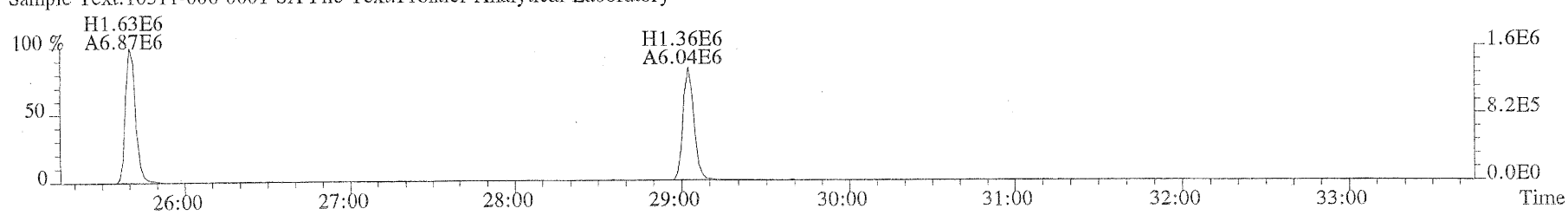
File:05JAN17Z #1-407 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



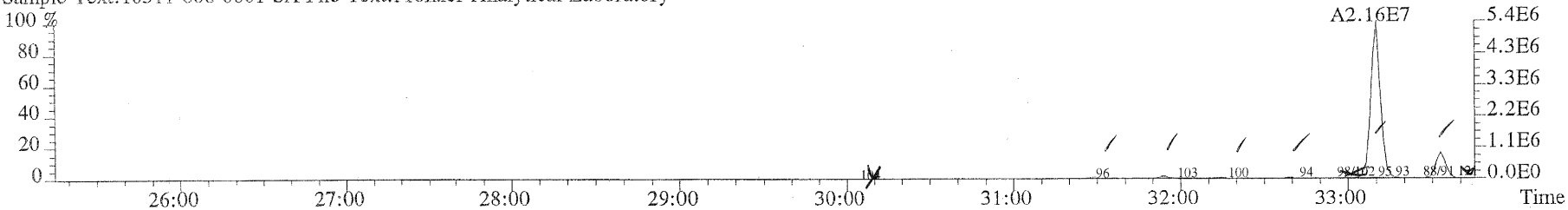
File:05JAN17Z #1-407 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



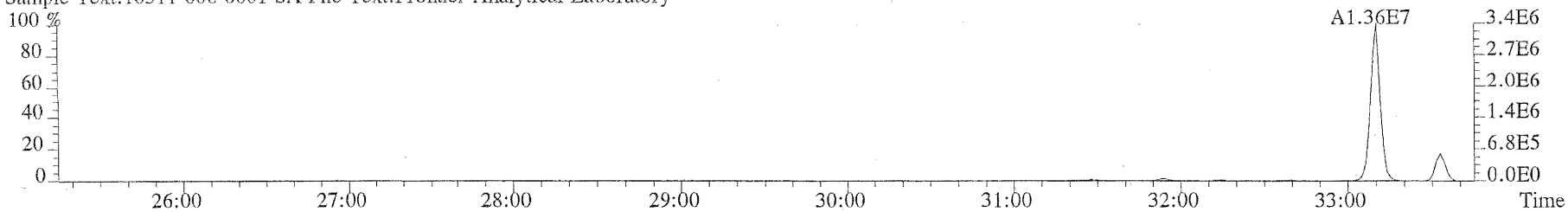
File:05JAN17Z #1-407 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-407 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-407 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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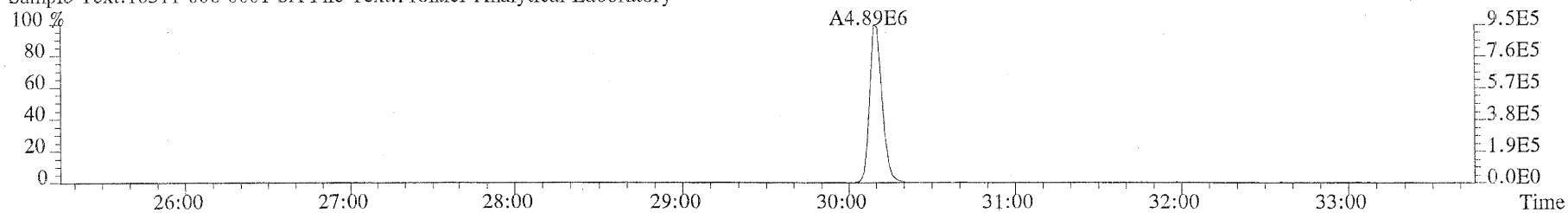

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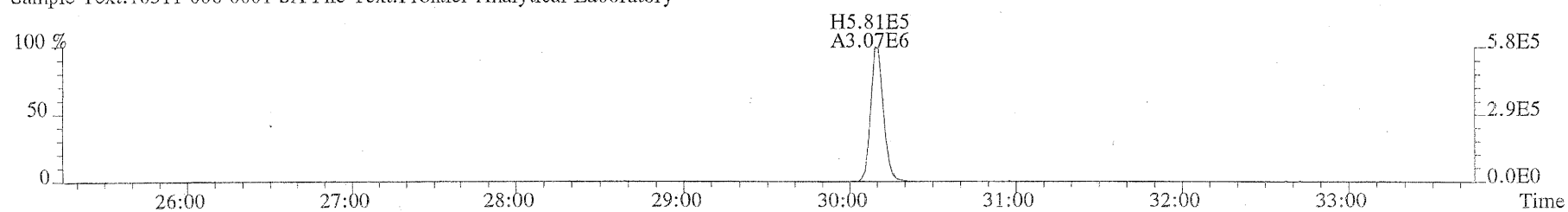
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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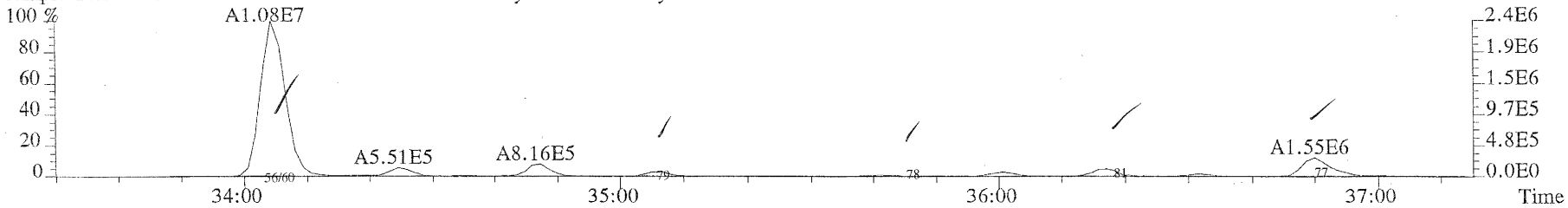

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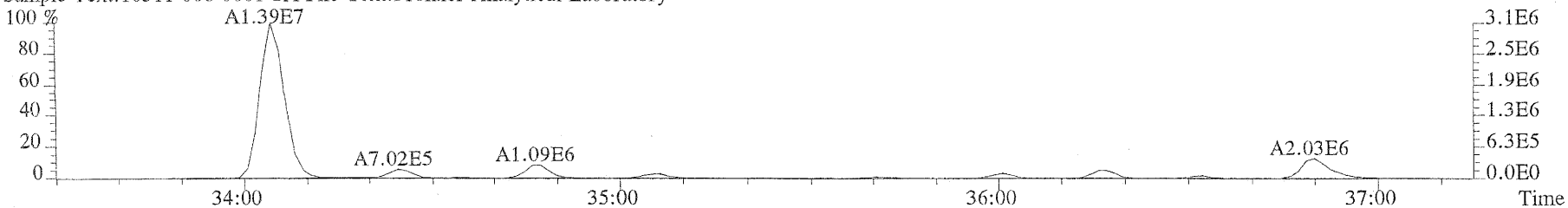

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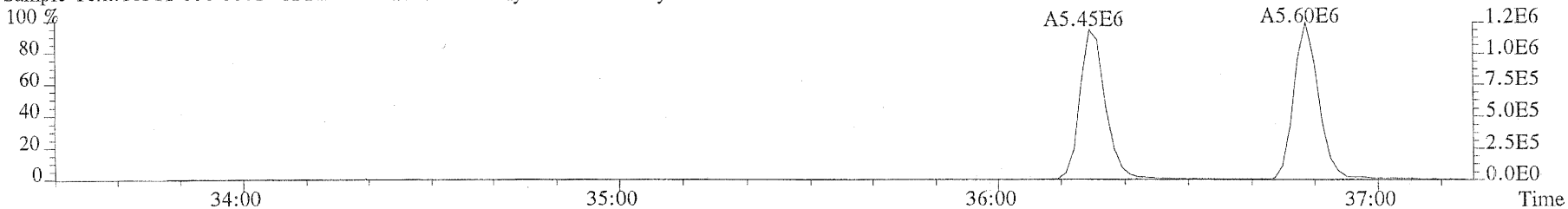
301.9626 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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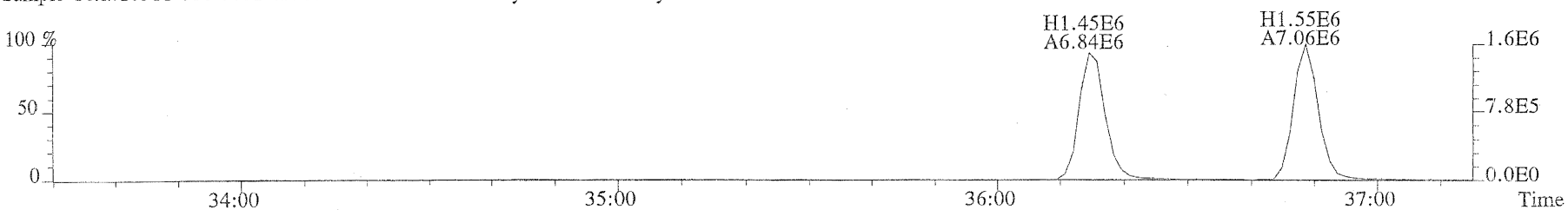
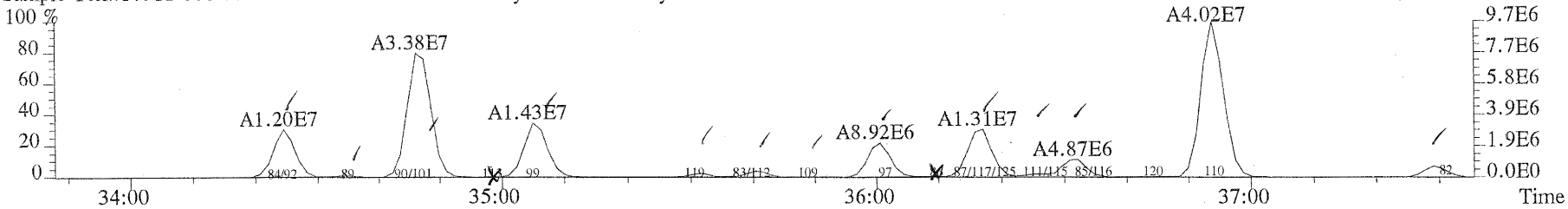
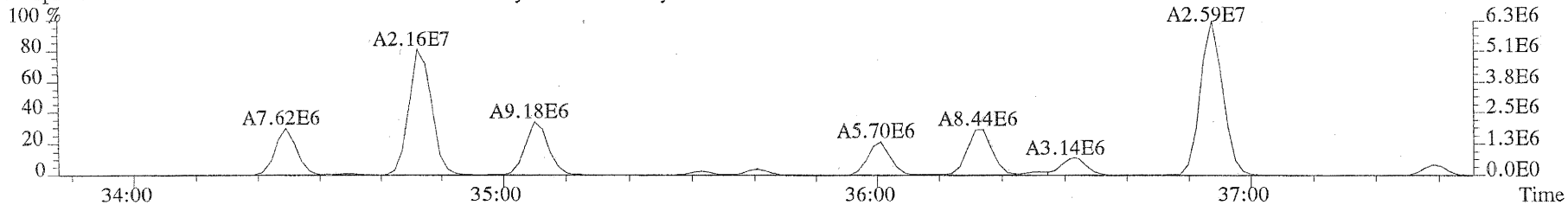


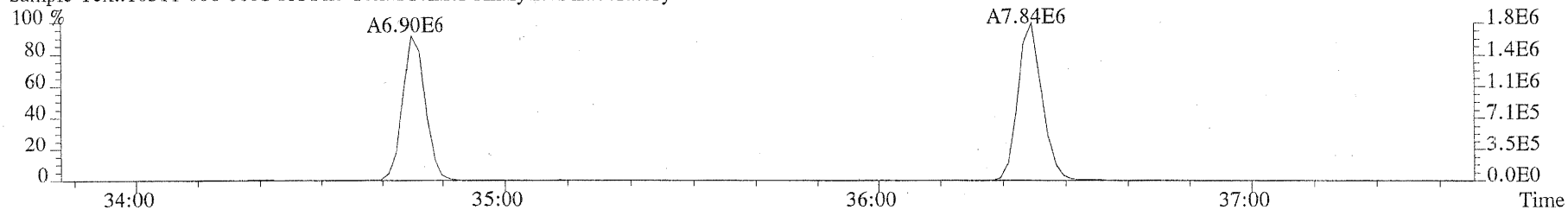
File:05JAN17Z #1-181 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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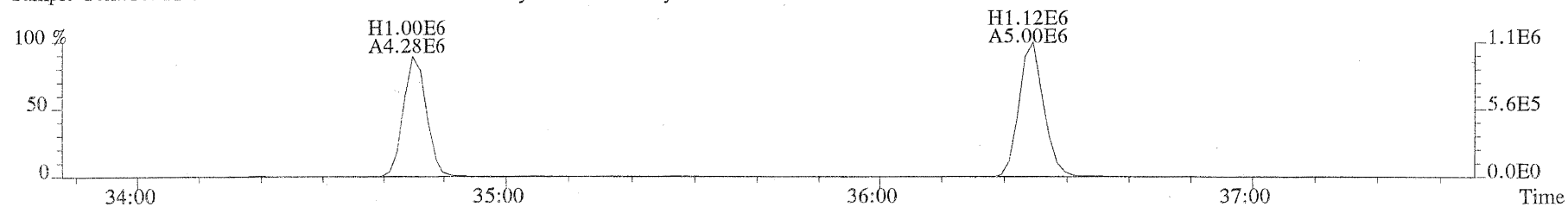
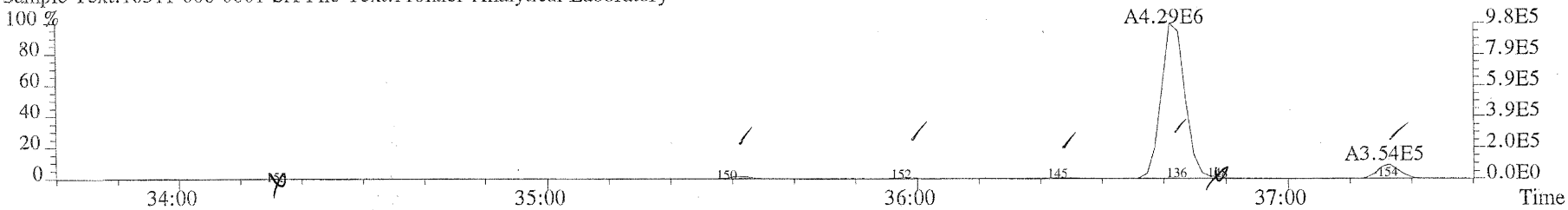
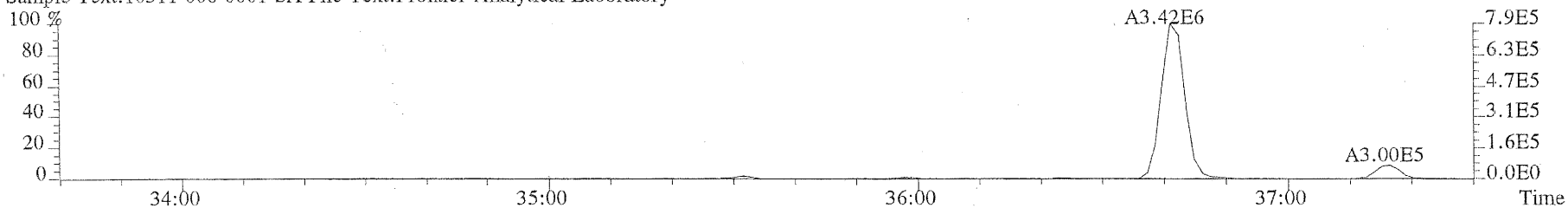
339.9178 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



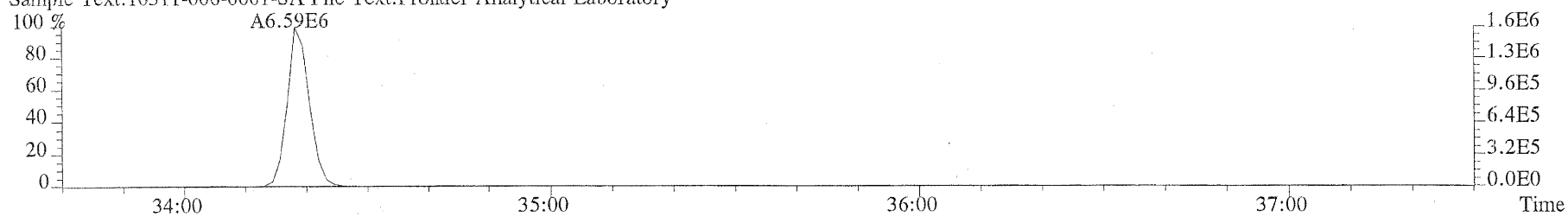
File:05JAN17Z #1-181 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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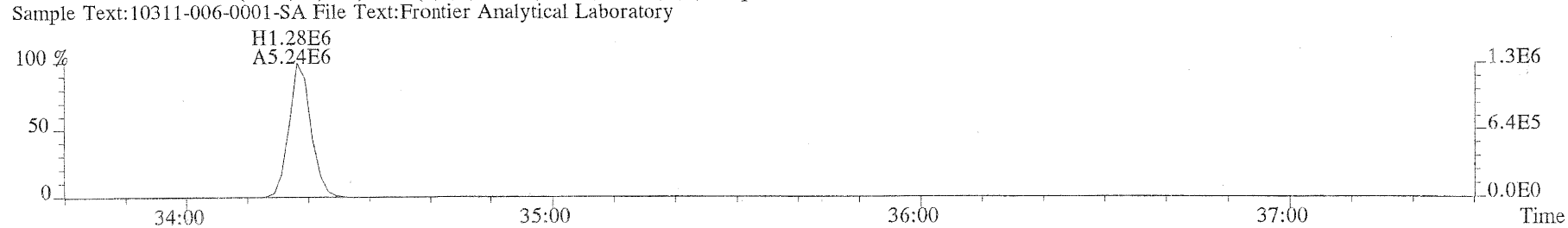
373.8788 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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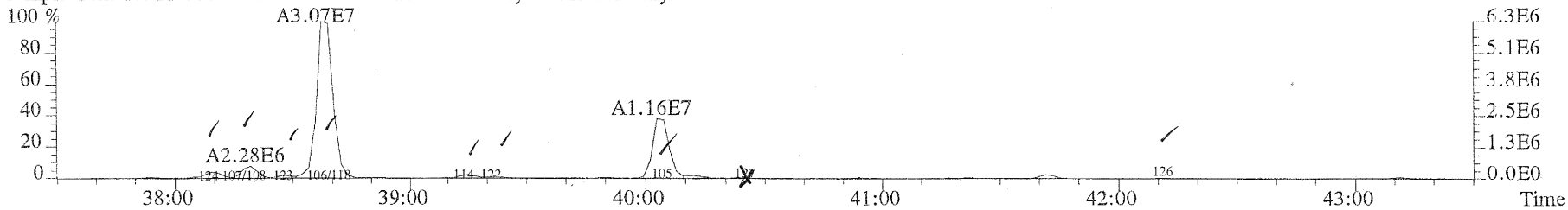
325.8804 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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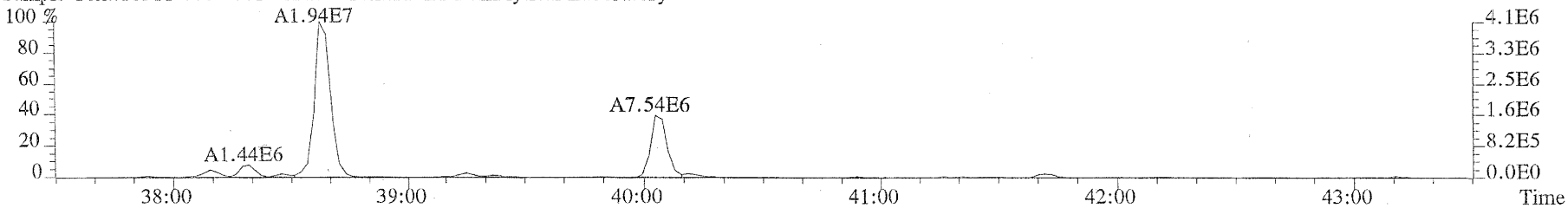
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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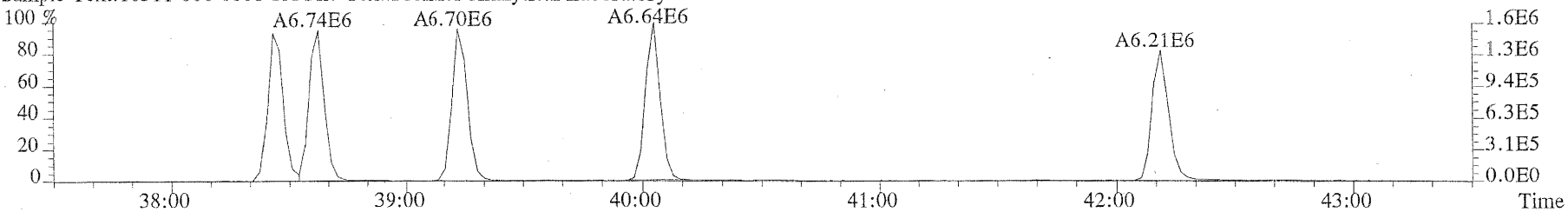

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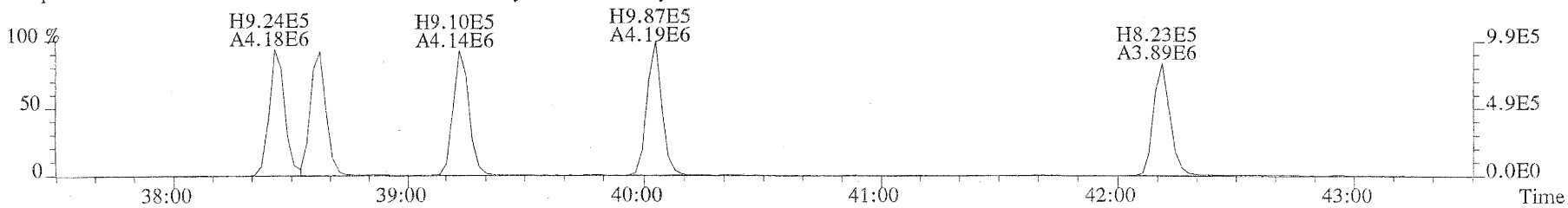
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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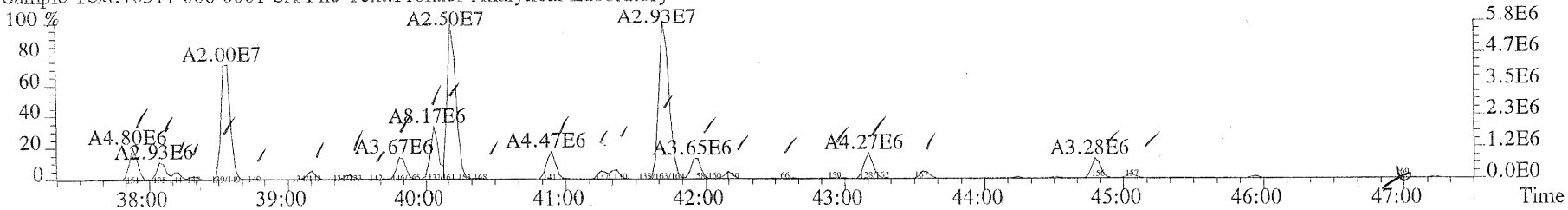
359.8415 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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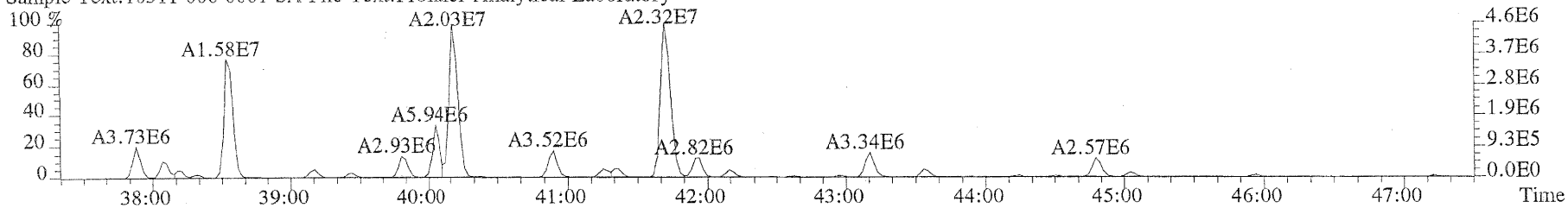
361.8385 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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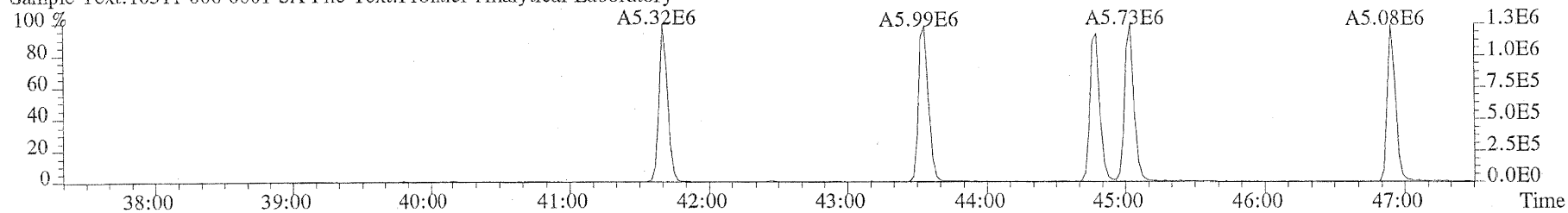
371.8817 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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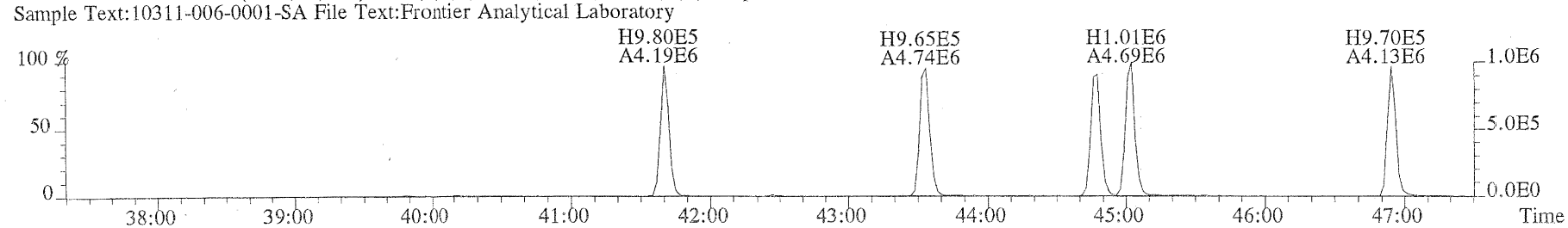
373.8788 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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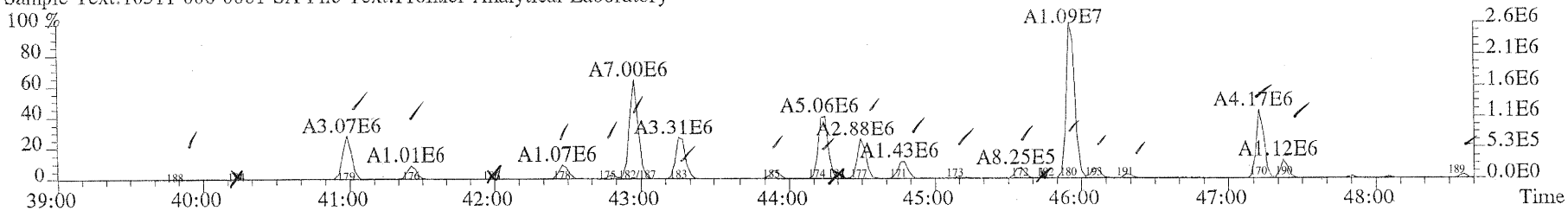
393.8025 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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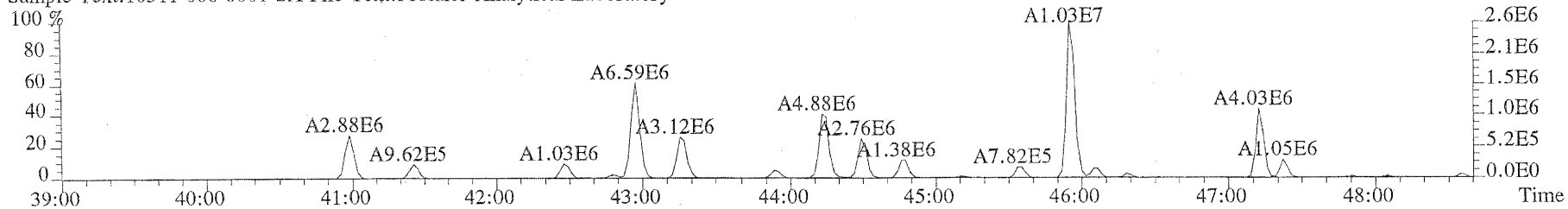
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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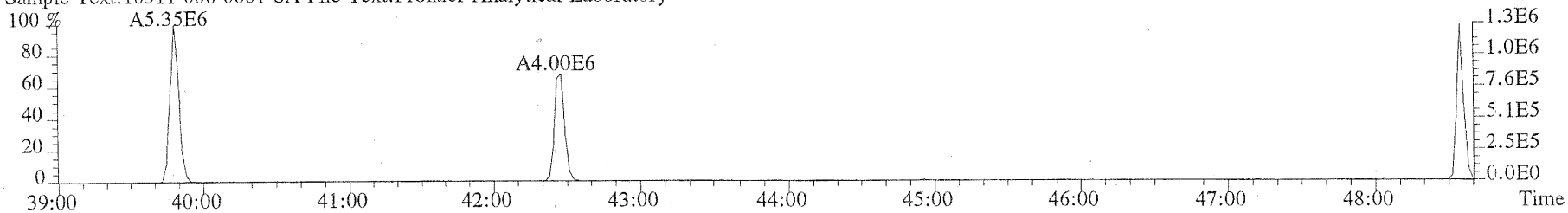
405.8428 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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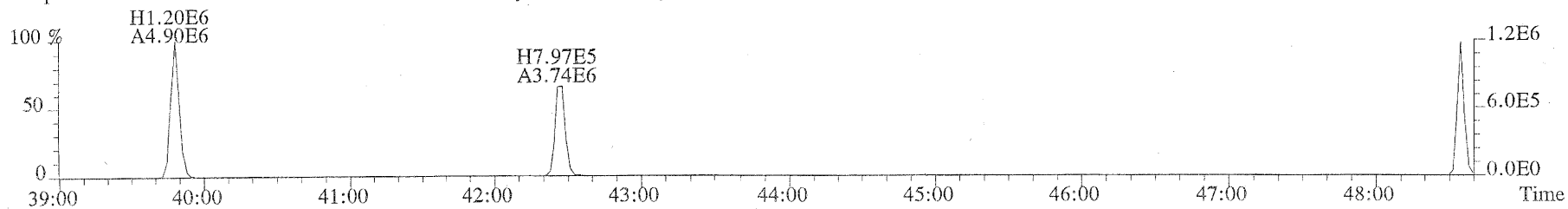
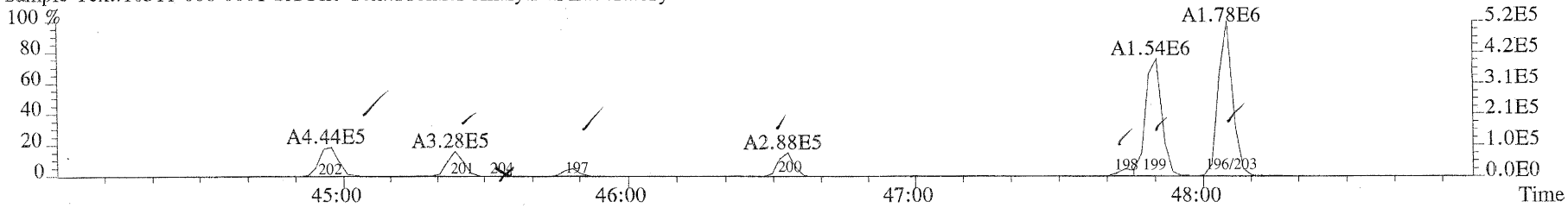
407.8398 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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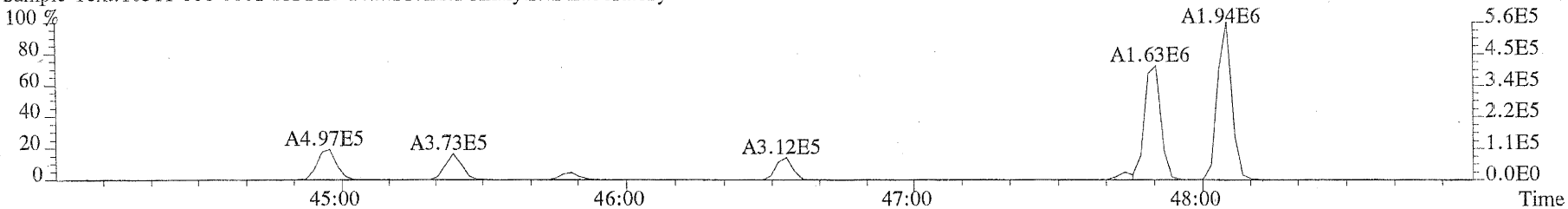
429.7606 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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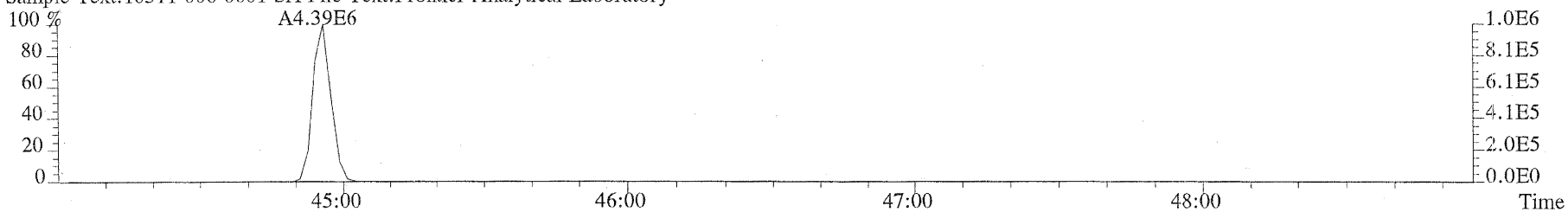
439.8038 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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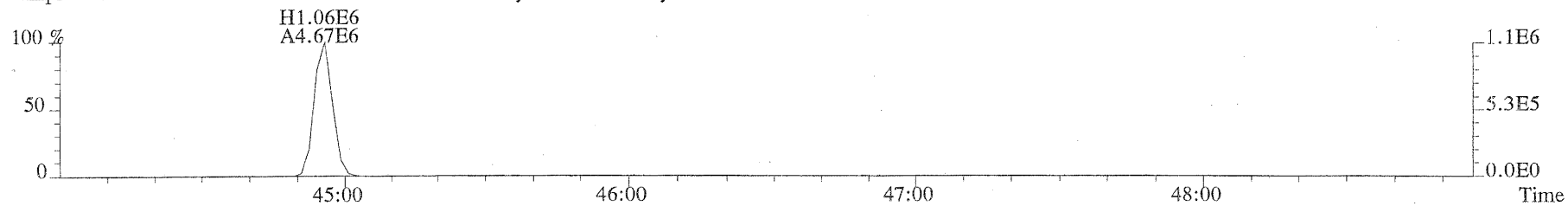
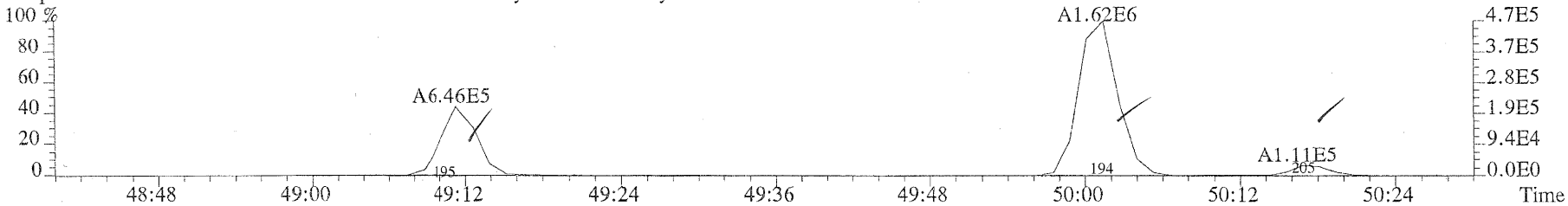
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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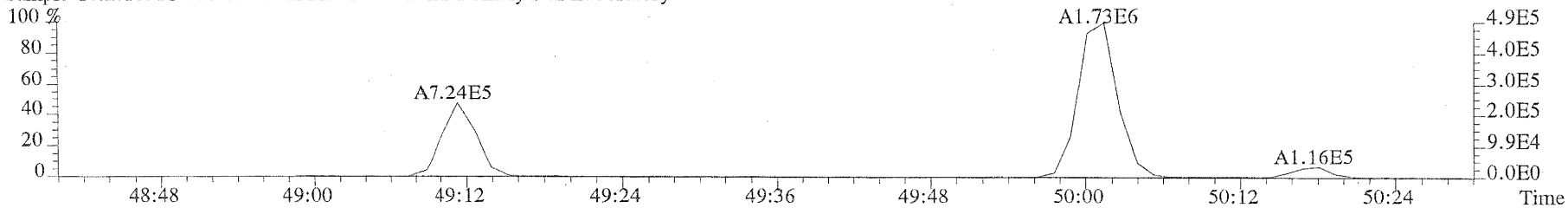
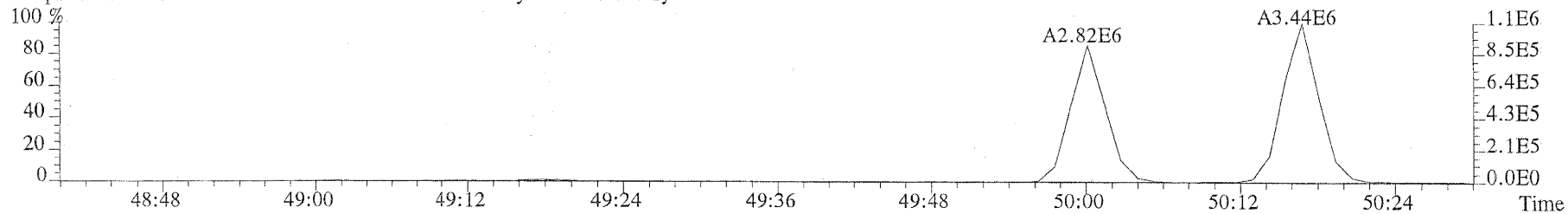
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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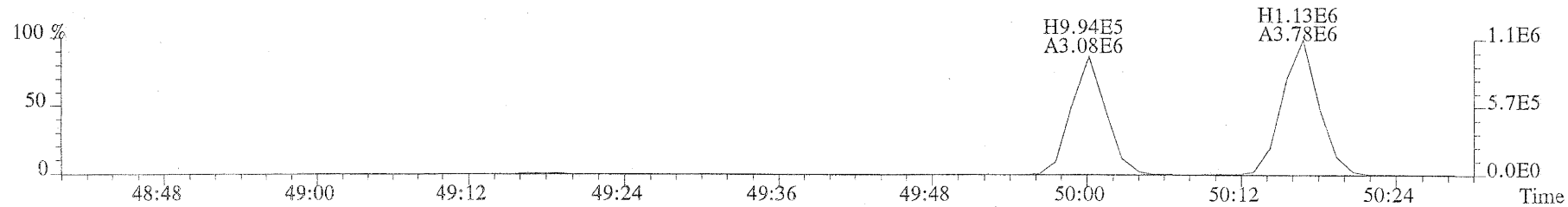
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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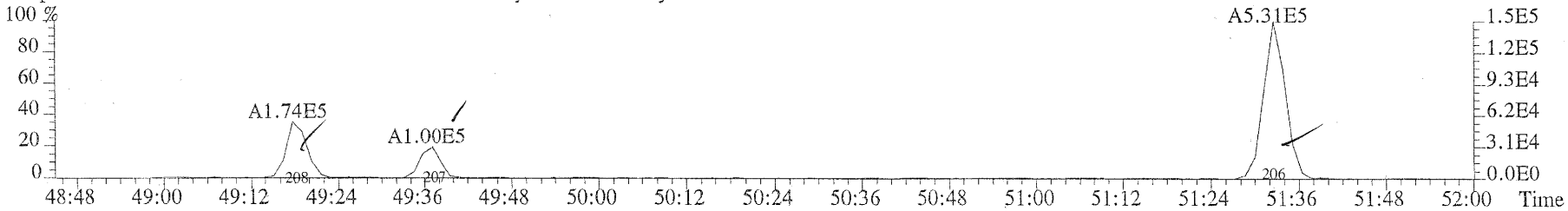
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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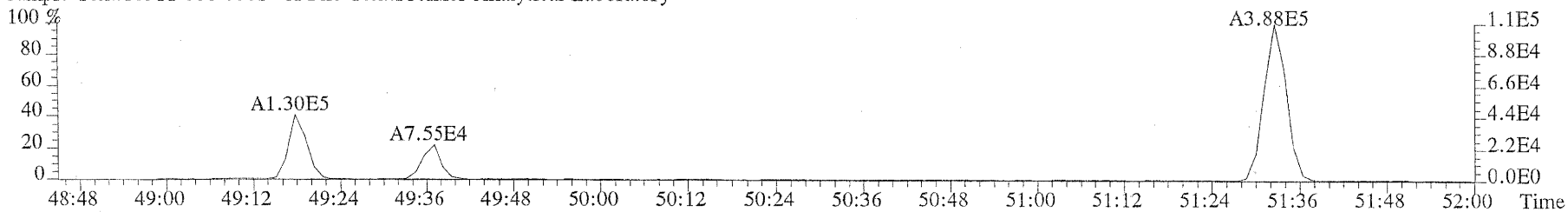
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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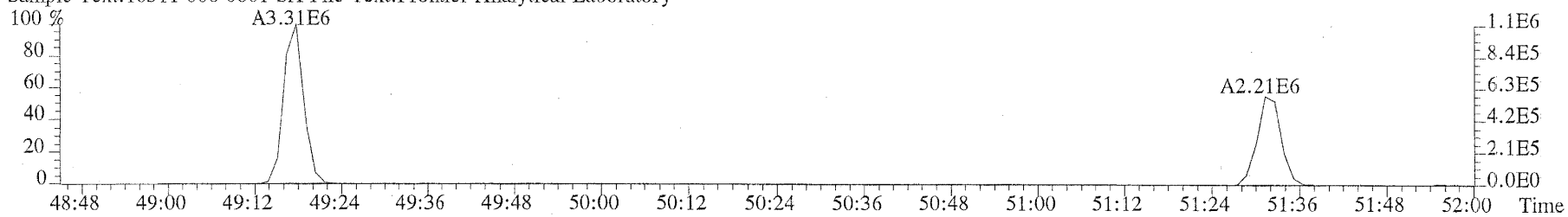
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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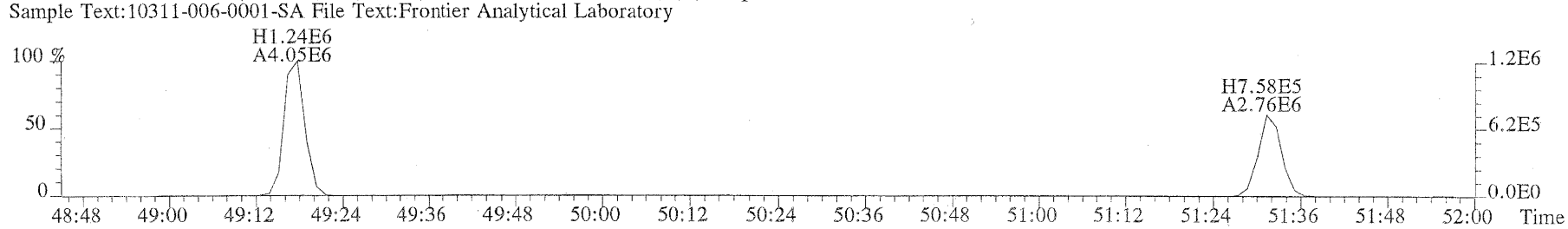
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
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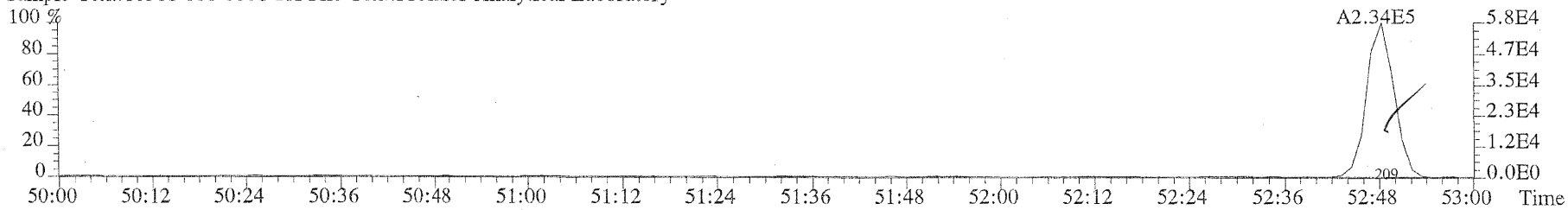
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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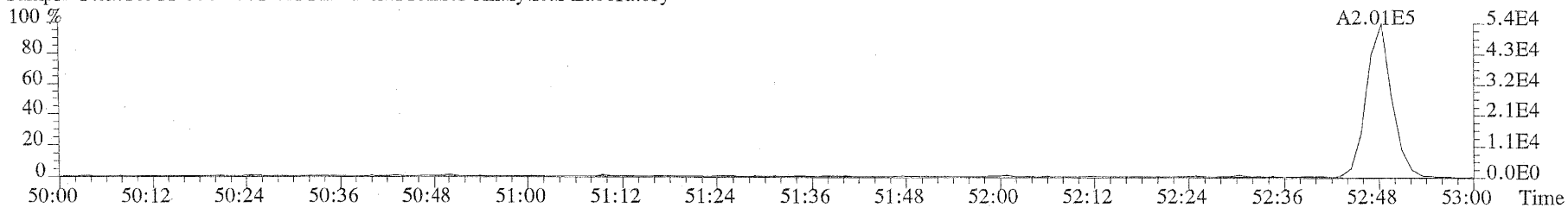
499.6797 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



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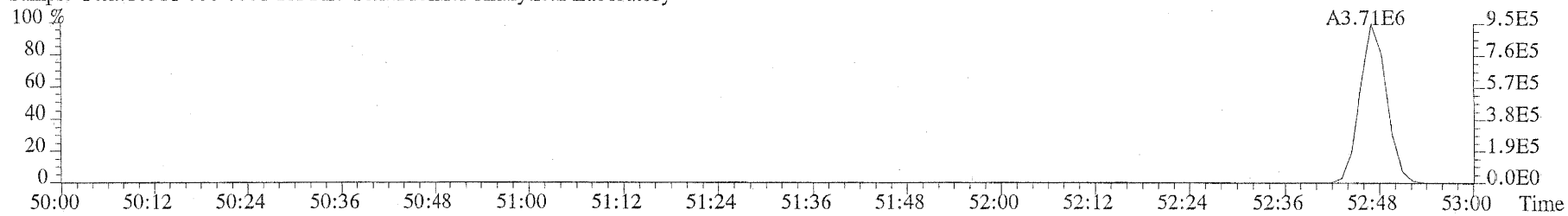
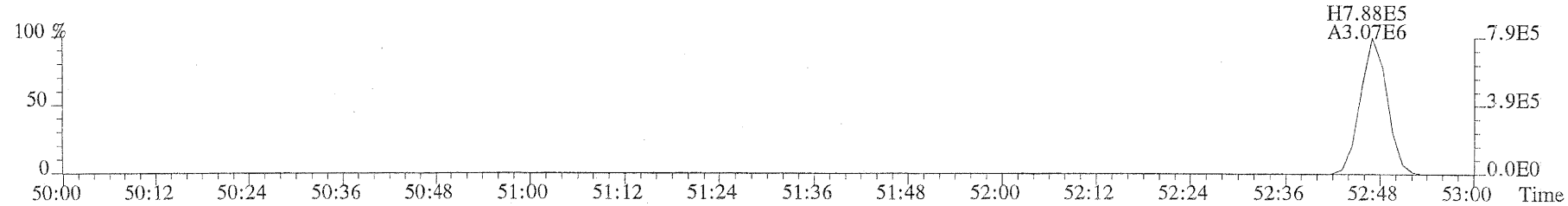
509.7229 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-306 Acq: 5-JAN-2017 20:04:27 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10311-006-0001-SA File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

Data Filename: 11AUG16Z

Analyte: 1668FAL4-8-11-16 Cal: 1668FAL4-8-11-16

Name	RRF	S. D.	%RSD	S2 RRF#1	S3 RRF#2	S4 RRF#3	S1 RRF#4	S5 RRF#5	S6 RRF#6
PCB-1	1.05	0.0632	6.02 %	1.15	1.09	1.02	1.02	1.04	0.98
13C-PCB-1	1.14	0.0410	3.61 %	1.12	1.11	1.14	1.12	1.12	1.22
PCB-3	1.05	0.0605	5.78 %	1.15	1.09	1.02	1.00	1.01	1.01
13C-PCB-3	1.11	0.0465	4.20 %	1.04	1.08	1.10	1.12	1.11	1.19
PCB-4	1.14	0.0394	3.47 %	1.20	1.14	1.13	1.07	1.14	1.14
13C-PCB-4	0.68	0.0184	2.72 %	0.67	0.68	0.66	0.66	0.68	0.71
PCB-15	1.09	0.0250	2.30 %	1.08	1.10	1.07	1.06	1.11	1.12
13C-PCB-15	1.02	0.0428	4.18 %	0.96	1.03	1.03	1.01	1.03	1.09
PCB-19	1.16	0.0996	8.57 %	1.36	1.17	1.12	1.11	1.10	1.10
13C-PCB-19	0.61	0.0258	4.20 %	0.61	0.60	0.59	0.61	0.63	0.66
13C-PCB-9	-	-	- %	-	-	-	-	-	-
PCB-37	1.14	0.0359	3.14 %	1.11	1.16	1.15	1.09	1.14	1.19
13C-PCB-37	1.38	0.0521	3.79 %	1.32	1.33	1.39	1.34	1.40	1.46
PCB-54	1.05	0.00869	0.827 %	1.04	1.06	1.05	1.05	1.05	1.05
13C-PCB-54	1.25	0.0234	1.87 %	1.24	1.25	1.25	1.23	1.25	1.30
PCB-104	1.14	0.0827	7.24 %	1.29	1.19	1.09	1.09	1.10	1.10
13C-PCB-104	0.91	0.0275	3.02 %	0.89	0.88	0.91	0.90	0.92	0.96
13C-PCB-28	1.48	0.0521	3.51 %	1.46	1.47	1.59	1.47	1.46	1.45
13C-PCB-52	-	-	- %	-	-	-	-	-	-
PCB-81	1.14	0.0578	5.05 %	1.24	1.10	1.09	1.12	1.14	1.18
13C-PCB-81	1.27	0.0513	4.04 %	1.21	1.30	1.31	1.22	1.25	1.33
PCB-77	1.10	0.0223	2.03 %	1.11	1.11	1.10	1.06	1.09	1.13
13C-PCB-77	1.27	0.0698	5.49 %	1.25	1.16	1.27	1.27	1.31	1.37
PCB-155	1.11	0.0299	2.70 %	1.13	1.16	1.10	1.08	1.09	1.10
13C-PCB-155	1.09	0.0331	3.04 %	1.08	1.06	1.05	1.09	1.09	1.15
13C-PCB-111	1.25	0.0232	1.85 %	1.29	1.23	1.23	1.26	1.25	1.26
13C-PCB-101	-	-	- %	-	-	-	-	-	-
PCB-123	1.05	0.0594	5.64 %	1.10	0.96	1.02	1.03	1.11	1.10
13C-PCB-123	1.20	0.0903	7.51 %	1.16	1.14	1.13	1.17	1.26	1.36
PCB-118	1.07	0.0668	6.26 %	1.15	1.01	0.97	1.05	1.10	1.11
13C-PCB-118	1.31	0.0467	3.56 %	1.29	1.26	1.31	1.29	1.33	1.40
PCB-114	1.08	0.0497	4.59 %	1.17	1.06	1.05	1.04	1.09	1.10
13C-PCB-114	1.23	0.0671	5.44 %	1.20	1.16	1.19	1.22	1.30	1.33
PCB-105	1.08	0.0285	2.64 %	1.12	1.10	1.05	1.05	1.07	1.09
13C-PCB-105	1.24	0.0676	5.45 %	1.23	1.17	1.18	1.22	1.29	1.35
PCB-126	1.07	0.0569	5.33 %	1.16	1.03	1.01	1.05	1.05	1.12
13C-PCB-126	1.17	0.0581	4.96 %	1.11	1.15	1.18	1.12	1.19	1.27
PCB-167	0.98	0.0399	4.07 %	1.02	0.92	0.94	0.99	1.00	1.01
13C-PCB-167	1.24	0.0563	4.54 %	1.23	1.19	1.18	1.23	1.29	1.32
PCB-156	1.01	0.0204	2.02 %	1.04	0.99	0.99	1.00	1.02	1.03
13C-PCB-156	1.18	0.0698	5.92 %	1.17	1.11	1.10	1.17	1.24	1.28
PCB-157	0.96	0.0298	3.09 %	0.97	0.92	0.93	0.98	0.98	0.98
13C-PCB-157	1.22	0.0554	4.52 %	1.22	1.17	1.18	1.19	1.27	1.31
PCB-169	1.00	0.0446	4.47 %	1.09	0.98	0.96	0.98	0.99	0.99
13C-PCB-169	1.11	0.0792	7.15 %	1.12	1.01	1.04	1.10	1.17	1.22
PCB-188	1.09	0.0340	3.11 %	1.14	1.13	1.08	1.06	1.07	1.07
13C-PCB-188	1.22	0.105	8.61 %	1.25	1.09	1.11	1.24	1.30	1.36
PCB-189	1.14	0.0734	6.44 %	1.29	1.13	1.10	1.12	1.11	1.09
13C-PCB-189	0.97	0.0705	7.28 %	0.98	0.89	0.89	0.95	1.04	1.06
PCB-202	1.05	0.0311	2.95 %	1.12	1.06	1.03	1.04	1.05	1.04
13C-PCB-202	0.88	0.0771	8.80 %	0.87	0.78	0.81	0.87	0.95	0.98
13C-PCB-178	0.77	0.0487	6.32 %	0.79	0.71	0.71	0.78	0.82	0.81
13C-PCB-138	-	-	- %	-	-	-	-	-	-

PCB-205	1.02	0.0843	8.29	%	1.09	0.92	0.91	1.01	1.09	1.07
13C-PCB-205	1.38	0.0559	4.05	%	1.32	1.43	1.44	1.32	1.35	1.42
PCB-208	0.93	0.0183	1.97	%	0.96	0.94	0.93	0.90	0.93	0.93
13C-PCB-208	1.31	0.113	8.63	%	1.29	1.16	1.26	1.31	1.35	1.51
PCB-206	0.94	0.0197	2.11	%	0.97	0.93	0.91	0.93	0.94	0.94
13C-PCB-206	1.01	0.0466	4.60	%	1.01	0.97	0.96	1.03	1.01	1.09
PCB-209	1.10	0.109	9.87	%	1.25	0.98	0.97	1.14	1.14	1.14
13C-PCB-209	1.34	0.0712	5.32	%	1.28	1.44	1.41	1.30	1.26	1.33
13C-PCB-194	-	-	-	%	-	-	-	-	-	-

Analyst: _____ Date: 8/12/16

Run #1 Filename 11AUG16Z S: 2 Acquired: 11-AUG-16 12:25:59 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z0 Analyte: FAL ID: 1668 CS0 R151116A CS0001

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	0.20	2.49e+05	3.29 y	14:28	-	1.15	y
2	IS/RT	13C-PCB-1	100.00	1.08e+08	3.11 y	14:27	-	1.12	y
3	Unk	PCB-3	0.20	2.32e+05	3.25 y	16:54	-	1.15	y
4	IS/RT	13C-PCB-3	100.00	1.01e+08	3.12 y	16:53	-	1.04	y
5	Unk	PCB-4	0.20	1.55e+05	1.34 y	18:07	-	1.20	y
6	IS/RT	13C-PCB-4	100.00	6.45e+07	1.58 y	18:06	-	0.668	y
7	Unk	PCB-15	0.20	2.00e+05	1.52 y	23:40	-	1.08	y
8	IS/RT	13C-PCB-15	100.00	9.25e+07	1.59 y	23:39	-	0.957	y
9	Unk	PCB-19	0.20	1.60e+05	1.18 y	22:00	-	1.36	y
10	IS/RT	13C-PCB-19	100.00	5.88e+07	1.10 y	21:58	-	0.609	y
11	RS	13C-PCB-9	100.00	9.67e+07	1.59 y	19:46	9.67e+05	-	n
12	Unk	PCB-37	0.20	1.75e+05	1.07 y	30:19	-	1.11	y
13	IS	13C-PCB-37	100.00	7.84e+07	1.08 y	30:18	-	1.32	y
14	Unk	PCB-54	0.20	1.52e+05	0.77 y	25:31	-	1.04	y
15	IS/RT	13C-PCB-54	100.00	7.32e+07	0.80 y	25:29	-	1.24	y
16	Unk	PCB-104	0.20	1.37e+05	1.44 y	29:57	-	1.29	y
17	IS	13C-PCB-104	100.00	5.29e+07	1.59 y	29:56	-	0.894	y
18	C/Up	13C-PCB-28	100.00	8.66e+07	1.06 y	26:35	-	1.46	y
19	RS	13C-PCB-52	100.00	5.92e+07	0.78 y	28:50	5.92e+05	-	n
20	Unk	PCB-81	0.20	1.54e+05	0.81 y	36:04	-	1.24	y
21	IS	13C-PCB-81	100.00	6.20e+07	0.80 y	36:03	-	1.21	y
22	Unk	PCB-77	0.20	1.43e+05	0.75 y	36:38	-	1.11	y
23	IS/RT	13C-PCB-77	100.00	6.40e+07	0.80 y	36:37	-	1.25	y
24	Unk	PCB-155	0.20	1.26e+05	1.32 y	34:06	-	1.13	y
25	IS	13C-PCB-155	100.00	5.57e+07	1.27 y	34:05	-	1.08	y
26	C/Up	13C-PCB-111	100.00	6.63e+07	1.58 y	36:10	-	1.29	y
27	RS	13C-PCB-101	100.00	5.14e+07	1.61 y	34:32	5.14e+05	-	n
28	Unk	PCB-123	0.20	1.22e+05	1.57 y	38:14	-	1.10	y
29	IS	13C-PCB-123	100.00	5.53e+07	1.57 y	38:13	-	1.16	y
30	Unk	PCB-118	0.20	1.41e+05	1.39 y	38:24	-	1.15	y
31	IS	13C-PCB-118	100.00	6.13e+07	1.57 y	38:24	-	1.29	y
32	Unk	PCB-114	0.20	1.34e+05	1.32 y	39:02	-	1.17	y
33	IS	13C-PCB-114	100.00	5.73e+07	1.57 y	39:00	-	1.20	y
34	Unk	PCB-105	0.20	1.31e+05	1.42 y	39:51	-	1.12	y
35	IS	13C-PCB-105	100.00	5.86e+07	1.59 y	39:50	-	1.23	y
36	Unk	PCB-126	0.20	1.23e+05	1.40 y	42:00	-	1.16	y
37	IS	13C-PCB-126	100.00	5.31e+07	1.57 y	41:58	-	1.11	y
38	Unk	PCB-167	0.20	1.20e+05	1.37 y	43:19	-	1.02	y
39	IS	13C-PCB-167	100.00	5.87e+07	1.25 y	43:17	-	1.23	y
40	Unk	PCB-156	0.20	1.16e+05	1.32 y	44:33	-	1.04	y
41	IS	13C-PCB-156	100.00	5.59e+07	1.25 y	44:31	-	1.17	y
42	Unk	PCB-157	0.20	1.13e+05	1.37 y	44:48	-	0.973	y
43	IS	13C-PCB-157	100.00	5.81e+07	1.27 y	44:48	-	1.22	y
44	Unk	PCB-169	0.20	1.16e+05	1.19 y	46:41	-	1.09	y
45	IS	13C-PCB-169	100.00	5.32e+07	1.27 y	46:41	-	1.12	y
46	Unk	PCB-188	0.20	1.36e+05	1.01 y	39:35	-	1.14	y
47	IS	13C-PCB-188	100.00	5.94e+07	1.06 y	39:35	-	1.25	y
48	Unk	PCB-189	0.20	1.20e+05	1.04 y	48:20	-	1.29	y
49	IS	13C-PCB-189	100.00	4.67e+07	1.04 y	48:20	-	0.981	y
50	Unk	PCB-202	0.20	9.21e+04	0.78 y	44:43	-	1.12	y
51	IS	13C-PCB-202	100.00	4.13e+07	0.91 y	44:41	-	0.867	y
52	C/Up	13C-PCB-178	100.00	3.74e+07	1.05 y	42:13	-	0.785	y
53	RS	13C-PCB-138	100.00	4.76e+07	1.26 y	41:27	4.76e+05	-	n

54	Unk	PCB-205	0.20	1.02e+05	0.82 y	50:01	-	1.09	y	
55	IS	13C-PCB-205	100.00	4.66e+07	0.91 y	49:59	-	1.32	y	
56	Unk	PCB-208	0.20	8.70e+04	1.50 y	49:04	-	0.960	y	
57	IS	13C-PCB-208	100.00	4.53e+07	0.79 y	49:03	-	1.29	y	
58	Unk	PCB-206	0.20	6.89e+04	1.34 y	51:11	-	0.972	y	
59	IS	13C-PCB-206	100.00	3.55e+07	0.77 y	51:10	-	1.01	y	
60	Unk	PCB-209	0.20	1.13e+05	1.19 y	52:22	-	1.25	y	
61	IS	13C-PCB-209	100.00	4.52e+07	1.20 y	52:21	-	1.28	y	
62	RS	13C-PCB-194	100.00	3.53e+07	0.91 y	49:44	3.53e+05	-	n	

Analyst: [illegible] Date: 8/12/16

Run #2 Filename 11AUG16Z S: 3 Acquired: 11-AUG-16 13:25:54 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z1 Analyte: FAL ID: 1668 CS1 R121023B CS0101

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	1.00	1.93e+06	3.03 y	14:26	-	1.09	y
2	IS/RT	13C-PCB-1	100.00	1.77e+08	3.11 y	14:25	-	1.11	y
3	Unk	PCB-3	1.00	1.88e+06	3.01 y	16:53	-	1.09	y
4	IS/RT	13C-PCB-3	100.00	1.72e+08	3.06 y	16:51	-	1.08	y
5	Unk	PCB-4	1.00	1.22e+06	1.43 y	18:06	-	1.14	y
6	IS/RT	13C-PCB-4	100.00	1.07e+08	1.58 y	18:05	-	0.676	y
7	Unk	PCB-15	1.00	1.78e+06	1.57 y	23:38	-	1.10	y
8	IS/RT	13C-PCB-15	100.00	1.63e+08	1.59 y	23:38	-	1.03	y
9	Unk	PCB-19	1.00	1.11e+06	1.08 y	21:59	-	1.17	y
10	IS/RT	13C-PCB-19	100.00	9.46e+07	1.12 y	21:57	-	0.597	y
11	RS	13C-PCB-9	100.00	1.59e+08	1.59 y	19:45	1.59e+06	-	n
12	Unk	PCB-37	1.00	1.49e+06	1.06 y	30:18	-	1.16	y
13	IS	13C-PCB-37	100.00	1.28e+08	1.06 y	30:16	-	1.33	y
14	Unk	PCB-54	1.00	1.27e+06	0.77 y	25:31	-	1.06	y
15	IS/RT	13C-PCB-54	100.00	1.20e+08	0.79 y	25:29	-	1.25	y
16	Unk	PCB-104	1.00	1.00e+06	1.53 y	29:56	-	1.19	y
17	IS	13C-PCB-104	100.00	8.45e+07	1.60 y	29:55	-	0.882	y
18	C/Up	13C-PCB-28	100.00	1.41e+08	1.07 y	26:34	-	1.47	y
19	RS	13C-PCB-52	100.00	9.58e+07	0.79 y	28:49	9.58e+05	-	n
20	Unk	PCB-81	1.00	1.19e+06	0.79 y	36:03	-	1.10	y
21	IS	13C-PCB-81	100.00	1.09e+08	0.78 y	36:01	-	1.30	y
22	Unk	PCB-77	1.00	1.09e+06	0.86 y	36:37	-	1.11	y
23	IS/RT	13C-PCB-77	100.00	9.75e+07	0.79 y	36:35	-	1.16	y
24	Unk	PCB-155	1.00	1.03e+06	1.28 y	34:05	-	1.16	y
25	IS	13C-PCB-155	100.00	8.88e+07	1.27 y	34:04	-	1.06	y
26	C/Up	13C-PCB-111	100.00	1.03e+08	1.59 y	36:09	-	1.23	y
27	RS	13C-PCB-101	100.00	8.39e+07	1.62 y	34:30	8.39e+05	-	n
28	Unk	PCB-123	1.00	9.33e+05	1.44 y	38:13	-	0.959	y
29	IS	13C-PCB-123	100.00	9.74e+07	1.57 y	38:13	-	1.14	y
30	Unk	PCB-118	1.00	1.09e+06	1.50 y	38:24	-	1.01	y
31	IS	13C-PCB-118	100.00	1.08e+08	1.58 y	38:22	-	1.26	y
32	Unk	PCB-114	1.00	1.04e+06	1.51 y	39:00	-	1.06	y
33	IS	13C-PCB-114	100.00	9.89e+07	1.58 y	39:00	-	1.16	y
34	Unk	PCB-105	1.00	1.10e+06	1.51 y	39:50	-	1.10	y
35	IS	13C-PCB-105	100.00	1.00e+08	1.60 y	39:48	-	1.17	y
36	Unk	PCB-126	1.00	1.01e+06	1.46 y	41:58	-	1.03	y
37	IS	13C-PCB-126	100.00	9.86e+07	1.60 y	41:56	-	1.15	y
38	Unk	PCB-167	1.00	9.34e+05	1.22 y	43:19	-	0.921	y
39	IS	13C-PCB-167	100.00	1.01e+08	1.24 y	43:17	-	1.19	y
40	Unk	PCB-156	1.00	9.37e+05	1.25 y	44:33	-	0.987	y
41	IS	13C-PCB-156	100.00	9.49e+07	1.25 y	44:31	-	1.11	y
42	Unk	PCB-157	1.00	9.20e+05	1.22 y	44:48	-	0.918	y
43	IS	13C-PCB-157	100.00	1.00e+08	1.25 y	44:46	-	1.17	y
44	Unk	PCB-169	1.00	8.46e+05	1.28 y	46:41	-	0.983	y
45	IS	13C-PCB-169	100.00	8.61e+07	1.26 y	46:40	-	1.01	y
46	Unk	PCB-188	1.00	1.05e+06	1.06 y	39:35	-	1.13	y
47	IS	13C-PCB-188	100.00	9.27e+07	1.05 y	39:33	-	1.09	y
48	Unk	PCB-189	1.00	8.61e+05	1.04 y	48:20	-	1.13	y
49	IS	13C-PCB-189	100.00	7.62e+07	1.05 y	48:20	-	0.892	y
50	Unk	PCB-202	1.00	7.07e+05	0.90 y	44:41	-	1.06	y
51	IS	13C-PCB-202	100.00	6.69e+07	0.91 y	44:39	-	0.784	y
52	C/Up	13C-PCB-178	100.00	6.07e+07	1.04 y	42:11	-	0.711	y
53	RS	13C-PCB-138	100.00	8.54e+07	1.26 y	41:25	8.54e+05	-	n

54	Unk	PCB-205	1.00	7.88e+05	0.88 y	49:59	-	0.924	y	
55	IS	13C-PCB-205	100.00	8.53e+07	0.91 y	49:59	-	1.43	y	
56	Unk	PCB-208	1.00	6.53e+05	1.41 y	49:04	-	0.939	y	
57	IS	13C-PCB-208	100.00	6.95e+07	0.79 y	49:03	-	1.16	y	
58	Unk	PCB-206	1.00	5.38e+05	1.32 y	51:11	-	0.926	y	
59	IS	13C-PCB-206	100.00	5.81e+07	0.78 y	51:10	-	0.973	y	
60	Unk	PCB-209	1.00	8.45e+05	1.16 y	52:21	-	0.982	y	
61	IS	13C-PCB-209	100.00	8.61e+07	1.21 y	52:21	-	1.44	y	
62	RS	13C-PCB-194	100.00	5.98e+07	0.92 y	49:44	5.98e+05	-	n	

Analyst: [illegible] Date: 8/12/16

Run #3 Filename 11AUG16Z S: 4 Acquired: 11-AUG-16 14:25:51 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z2 Analyte: FAL ID: 1668 CS2 R130426B CS0201

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	5.00	1.17e+07	3.09	y	14:27	-	1.02	y
2	IS/RT	13C-PCB-1	100.00	2.30e+08	3.11	y	14:26	-	1.14	y
3	Unk	PCB-3	5.00	1.14e+07	3.11	y	16:52	-	1.02	y
4	IS/RT	13C-PCB-3	100.00	2.23e+08	3.06	y	16:52	-	1.10	y
5	Unk	PCB-4	5.00	7.52e+06	1.51	y	18:06	-	1.13	y
6	IS/RT	13C-PCB-4	100.00	1.33e+08	1.59	y	18:04	-	0.661	y
7	Unk	PCB-15	5.00	1.11e+07	1.61	y	23:39	-	1.07	y
8	IS/RT	13C-PCB-15	100.00	2.08e+08	1.60	y	23:38	-	1.03	y
9	Unk	PCB-19	5.00	6.64e+06	1.04	y	21:59	-	1.12	y
10	IS/RT	13C-PCB-19	100.00	1.18e+08	1.10	y	21:57	-	0.586	y
11	RS	13C-PCB-9	100.00	2.02e+08	1.57	y	19:46	2.02e+06	-	n
12	Unk	PCB-37	5.00	9.61e+06	1.07	y	30:17	-	1.15	y
13	IS	13C-PCB-37	100.00	1.67e+08	1.10	y	30:15	-	1.39	y
14	Unk	PCB-54	5.00	7.91e+06	0.78	y	25:31	-	1.05	y
15	IS/RT	13C-PCB-54	100.00	1.50e+08	0.79	y	25:28	-	1.25	y
16	Unk	PCB-104	5.00	5.89e+06	1.58	y	29:56	-	1.09	y
17	IS	13C-PCB-104	100.00	1.09e+08	1.59	y	29:54	-	0.906	y
18	C/Up	13C-PCB-28	100.00	1.90e+08	1.17	y	26:34	-	1.59	y
19	RS	13C-PCB-52	100.00	1.20e+08	0.78	y	28:49	1.20e+06	-	n
20	Unk	PCB-81	5.00	7.65e+06	0.77	y	36:03	-	1.09	y
21	IS	13C-PCB-81	100.00	1.40e+08	0.79	y	36:01	-	1.31	y
22	Unk	PCB-77	5.00	7.47e+06	0.79	y	36:37	-	1.10	y
23	IS/RT	13C-PCB-77	100.00	1.35e+08	0.79	y	36:36	-	1.27	y
24	Unk	PCB-155	5.00	6.21e+06	1.27	y	34:05	-	1.10	y
25	IS	13C-PCB-155	100.00	1.13e+08	1.26	y	34:04	-	1.05	y
26	C/Up	13C-PCB-111	100.00	1.32e+08	1.59	y	36:09	-	1.23	y
27	RS	13C-PCB-101	100.00	1.07e+08	1.59	y	34:30	1.07e+06	-	n
28	Unk	PCB-123	5.00	6.20e+06	1.52	y	38:13	-	1.02	y
29	IS	13C-PCB-123	100.00	1.22e+08	1.57	y	38:12	-	1.13	y
30	Unk	PCB-118	5.00	6.85e+06	1.52	y	38:23	-	0.971	y
31	IS	13C-PCB-118	100.00	1.41e+08	1.61	y	38:23	-	1.31	y
32	Unk	PCB-114	5.00	6.76e+06	1.54	y	39:01	-	1.05	y
33	IS	13C-PCB-114	100.00	1.29e+08	1.58	y	38:59	-	1.19	y
34	Unk	PCB-105	5.00	6.69e+06	1.53	y	39:50	-	1.05	y
35	IS	13C-PCB-105	100.00	1.28e+08	1.60	y	39:49	-	1.18	y
36	Unk	PCB-126	5.00	6.45e+06	1.56	y	41:57	-	1.01	y
37	IS	13C-PCB-126	100.00	1.27e+08	1.60	y	41:57	-	1.18	y
38	Unk	PCB-167	5.00	5.99e+06	1.22	y	43:18	-	0.940	y
39	IS	13C-PCB-167	100.00	1.27e+08	1.25	y	43:18	-	1.18	y
40	Unk	PCB-156	5.00	5.91e+06	1.28	y	44:32	-	0.992	y
41	IS	13C-PCB-156	100.00	1.19e+08	1.24	y	44:30	-	1.10	y
42	Unk	PCB-157	5.00	5.93e+06	1.24	y	44:47	-	0.932	y
43	IS	13C-PCB-157	100.00	1.27e+08	1.24	y	44:47	-	1.18	y
44	Unk	PCB-169	5.00	5.37e+06	1.24	y	46:40	-	0.960	y
45	IS	13C-PCB-169	100.00	1.12e+08	1.25	y	46:40	-	1.04	y
46	Unk	PCB-188	5.00	6.50e+06	1.07	y	39:34	-	1.08	y
47	IS	13C-PCB-188	100.00	1.20e+08	1.06	y	39:34	-	1.11	y
48	Unk	PCB-189	5.00	5.29e+06	1.06	y	48:21	-	1.10	y
49	IS	13C-PCB-189	100.00	9.65e+07	1.06	y	48:19	-	0.893	y
50	Unk	PCB-202	5.00	4.47e+06	0.88	y	44:42	-	1.03	y
51	IS	13C-PCB-202	100.00	8.70e+07	0.91	y	44:40	-	0.805	y
52	C/Up	13C-PCB-178	100.00	7.68e+07	1.05	y	42:12	-	0.711	y
53	RS	13C-PCB-138	100.00	1.08e+08	1.25	y	41:26	1.08e+06	-	n

54	Unk	PCB-205	5.00	4.98e+06	0.87 y	49:59	-	0.908	y	
55	IS	13C-PCB-205	100.00	1.10e+08	0.90 y	49:58	-	1.44	y	
56	Unk	PCB-208	5.00	4.43e+06	1.43 y	49:03	-	0.926	y	
57	IS	13C-PCB-208	100.00	9.57e+07	0.79 y	49:03	-	1.26	y	
58	Unk	PCB-206	5.00	3.34e+06	1.37 y	51:10	-	0.913	y	
59	IS	13C-PCB-206	100.00	7.31e+07	0.78 y	51:10	-	0.962	y	
60	Unk	PCB-209	5.00	5.15e+06	1.19 y	52:21	-	0.965	y	
61	IS	13C-PCB-209	100.00	1.07e+08	1.19 y	52:19	-	1.41	y	
62	RS	13C-PCB-194	100.00	7.60e+07	0.92 y	49:44	7.60e+05	-	n	

Analyst: [illegible] Date: 8/18/16

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: b 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

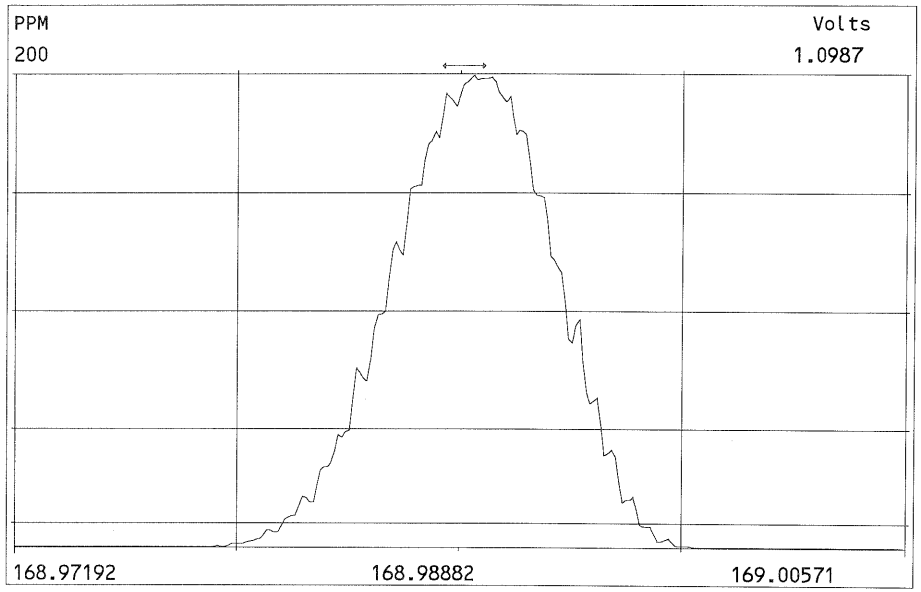
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
11AUG16Z	1	ST081116Z3	1668 CS3 R150603A CS0301	11-AUG-16 11:26:03	NA	NA	BS
11AUG16Z	2	ST081116Z0	1668 CS0 R151116A CS0001	11-AUG-16 12:25:59	NA	NA	BS
11AUG16Z	3	ST081116Z1	1668 CS1 R121023B CS0101	11-AUG-16 13:25:54	NA	NA	BS
11AUG16Z	4	ST081116Z2	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

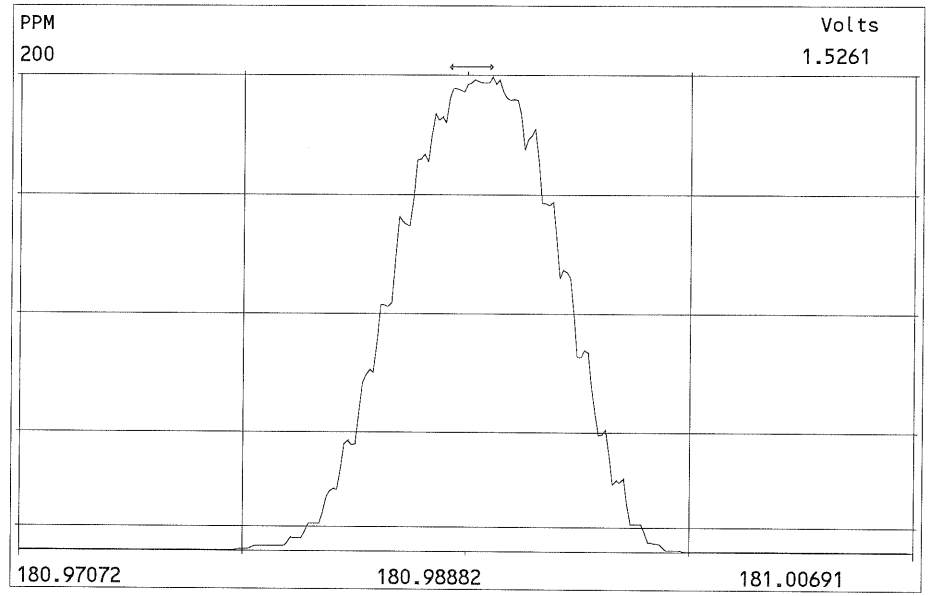
8/12/16

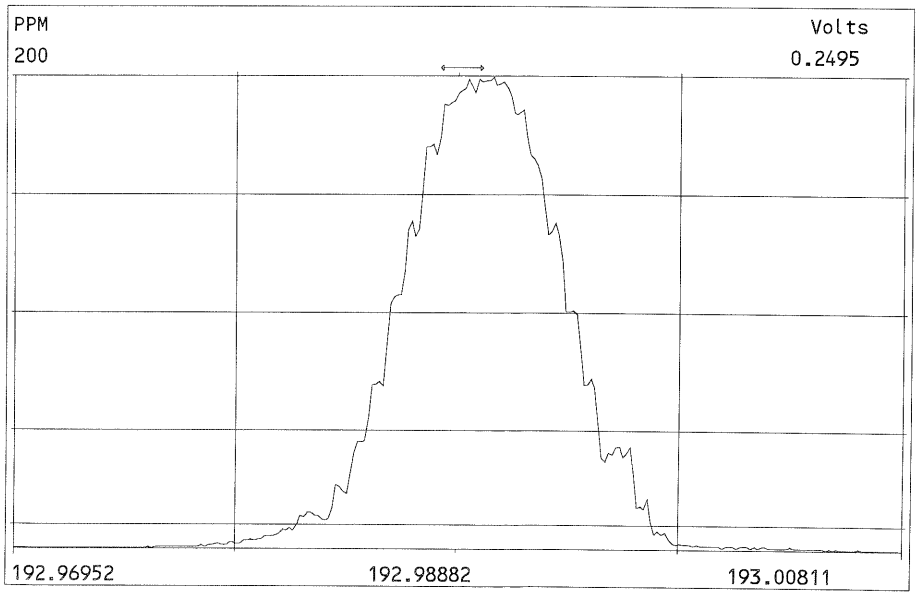
Data Backed Up:_____

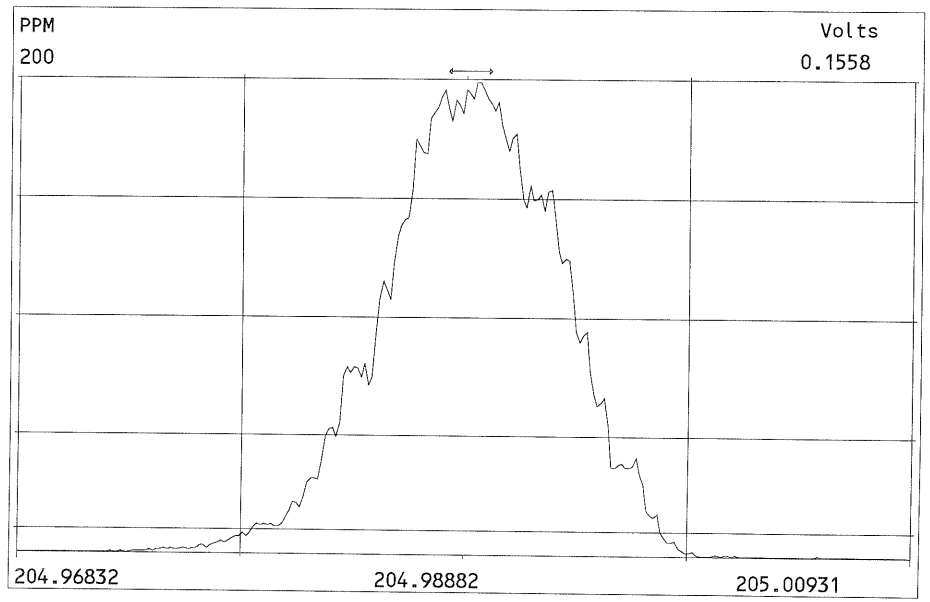
Date:_____

Peak Locate Examination:11-AUG-2016:11:21 File:11AUG16Z PFK-01
Experiment:1668PCB Function:1 Reference:PFK



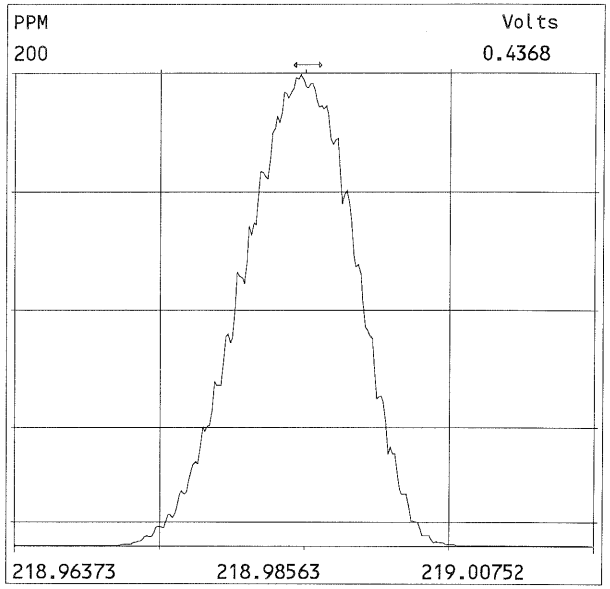


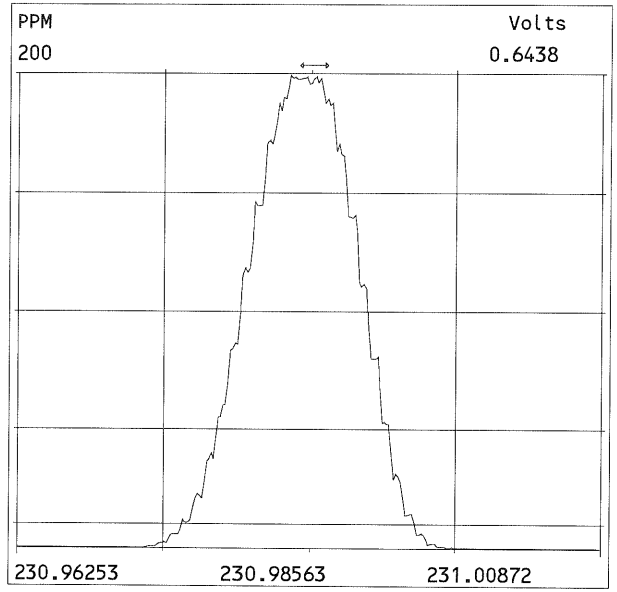


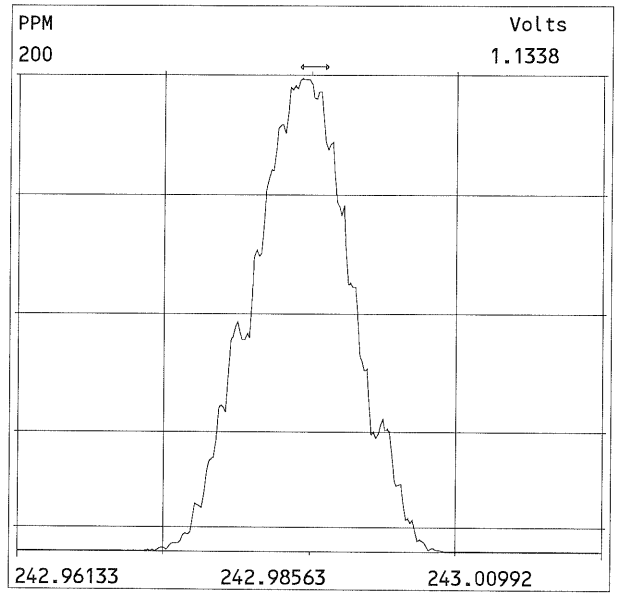


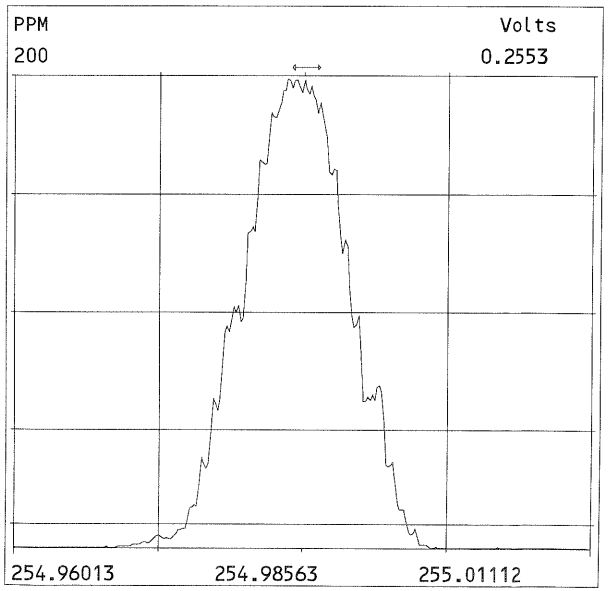
Peak Locate Examination:11-AUG-2016:11:22 File:11AUG16Z PFK01

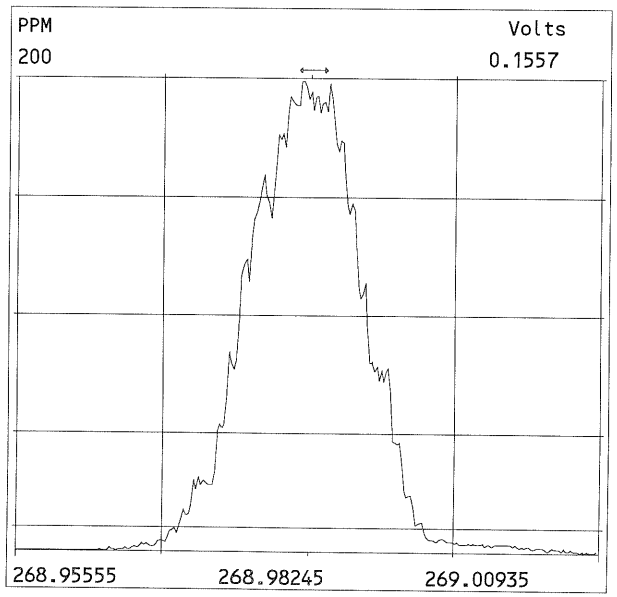
Experiment:1668PCB Function:2 Reference:PFK

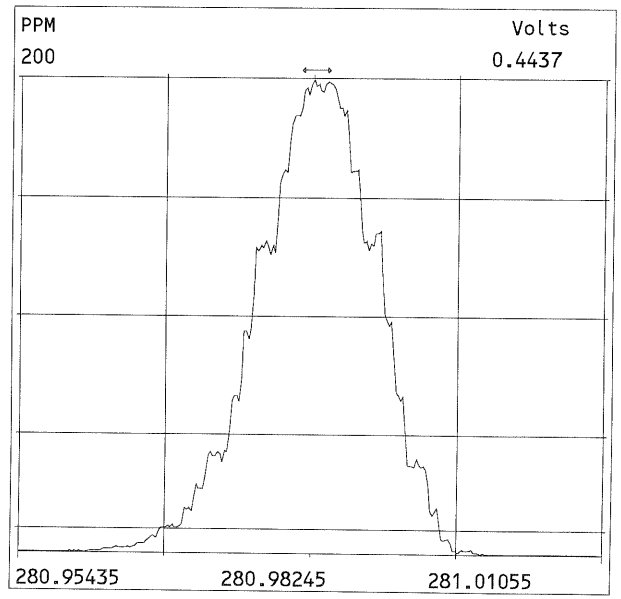






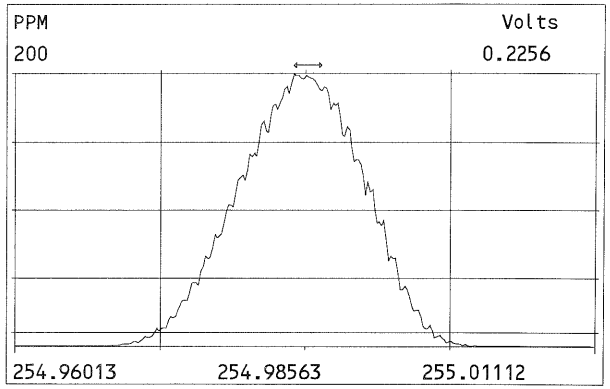


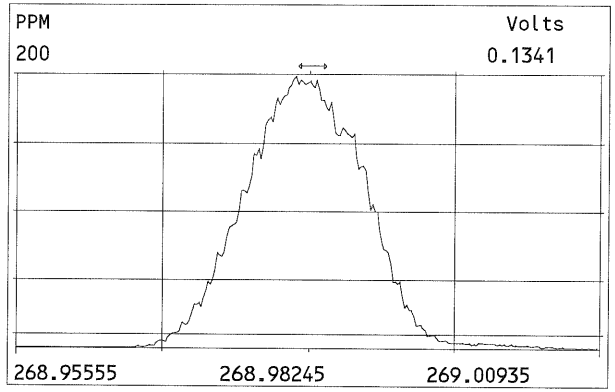


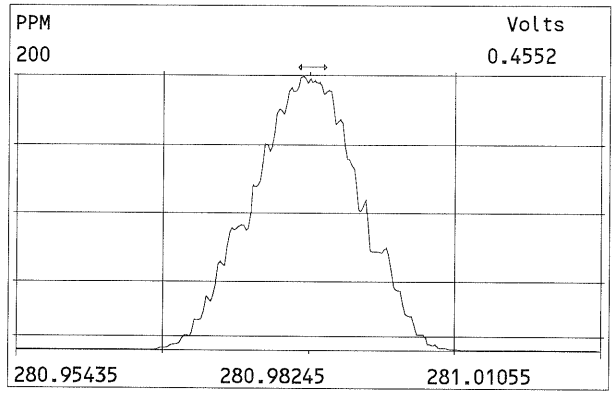


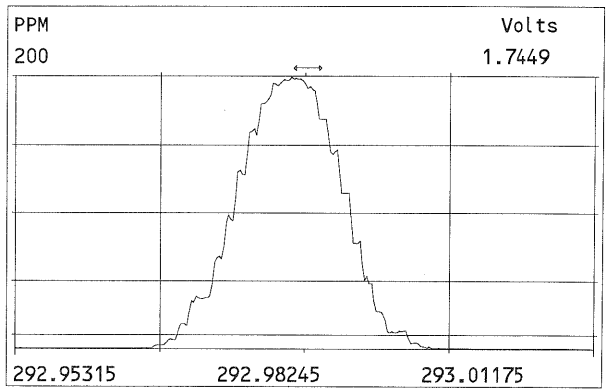
Peak Locate Examination:11-AUG-2016:11:22 File:11AUG16Z PFK01

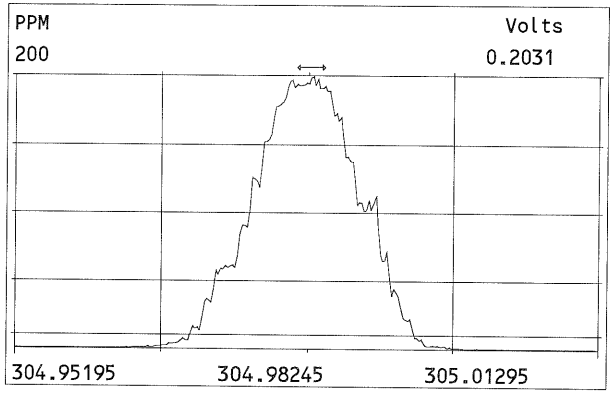
Experiment:1668PCB Function:3 Reference:PFK

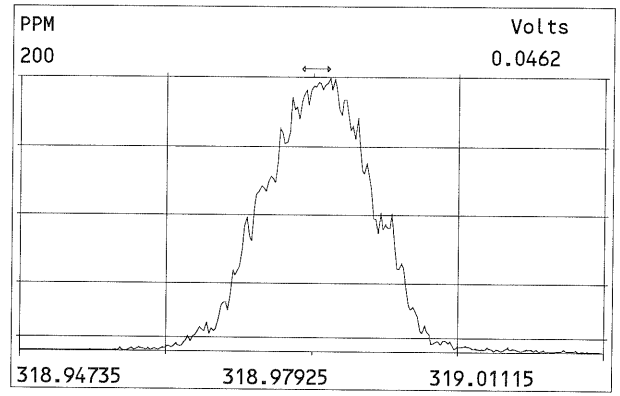


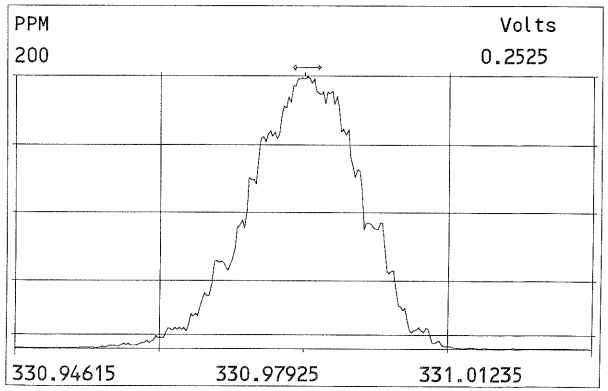


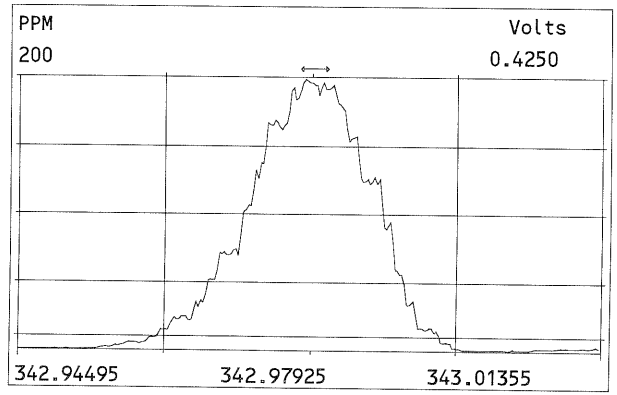






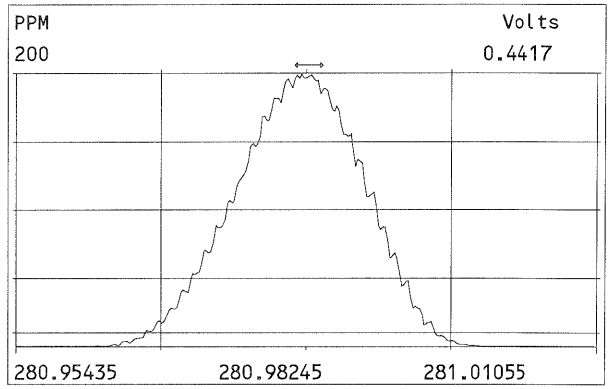


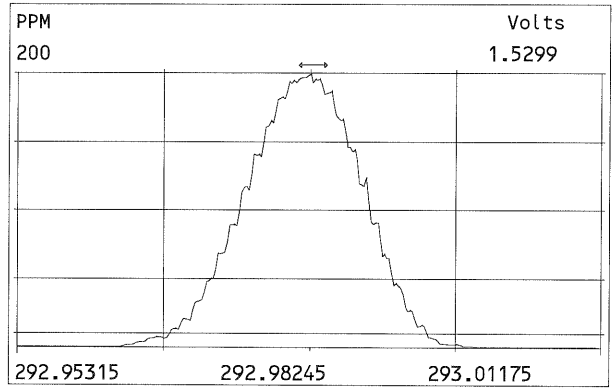


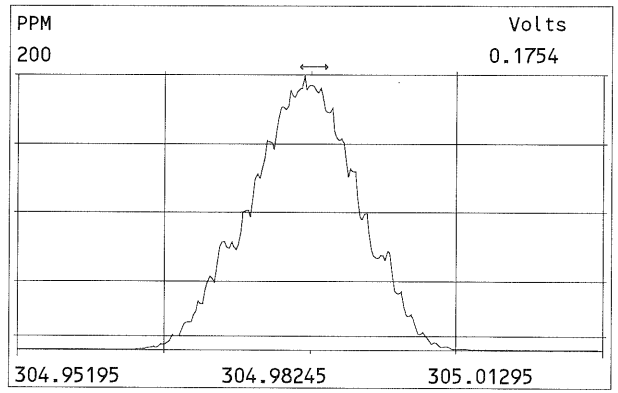


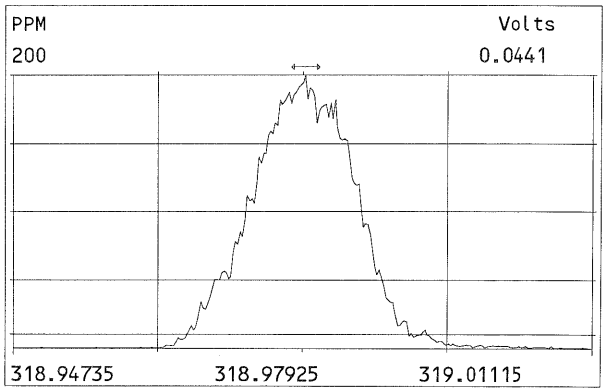
Peak Locate Examination:11-AUG-2016:11:23 File:11AUG16Z PFK01

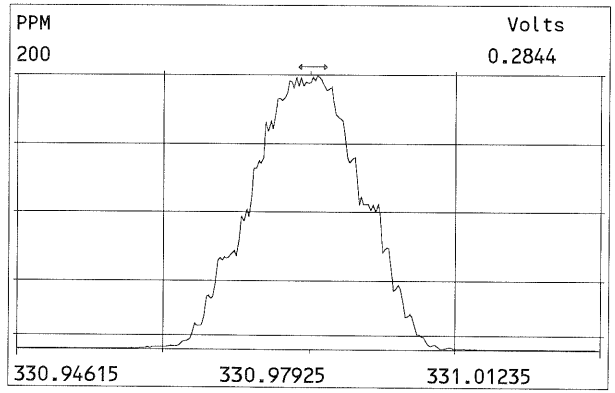
Experiment:1668PCB Function:4 Reference:PFK

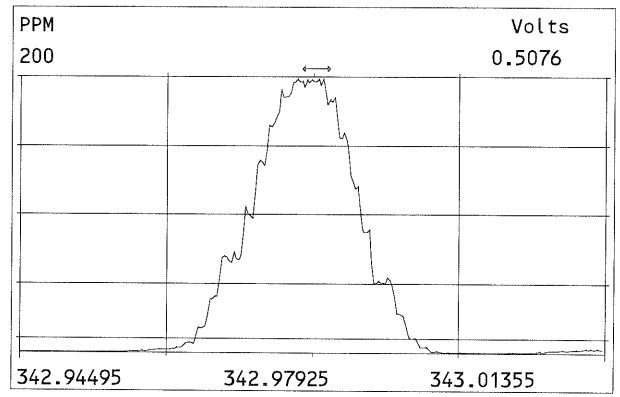


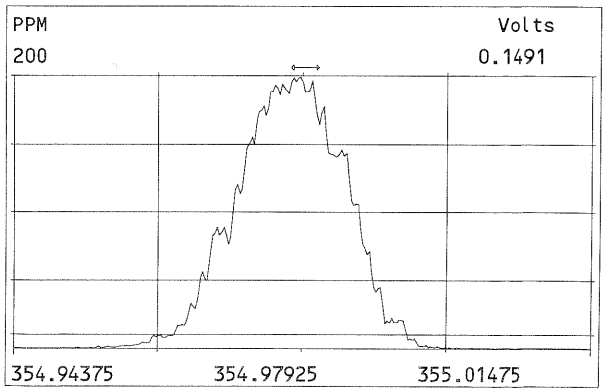


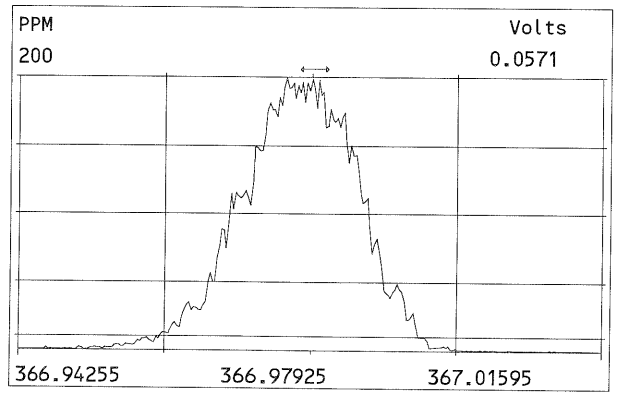


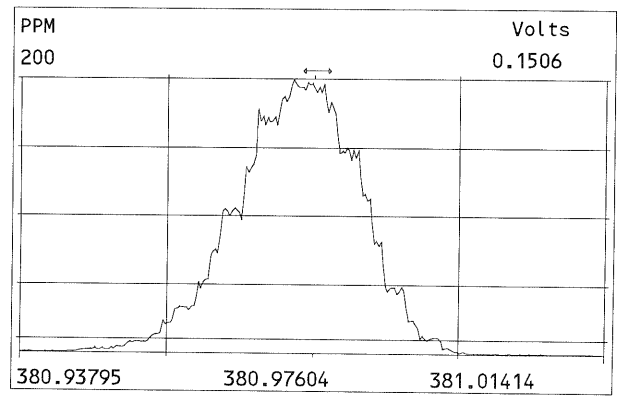




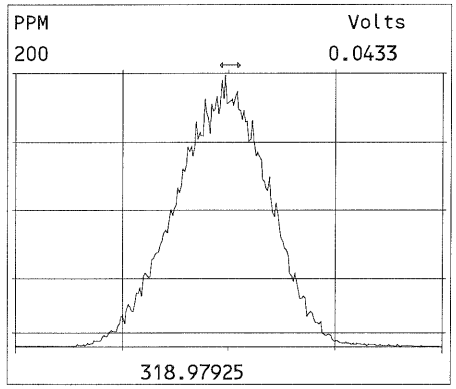


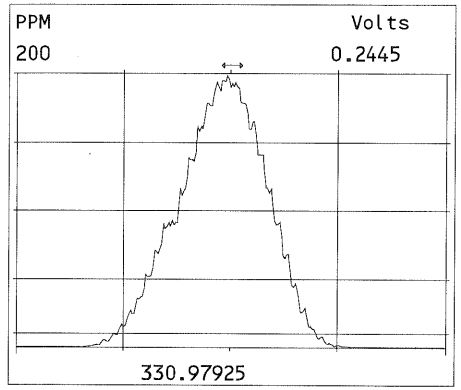


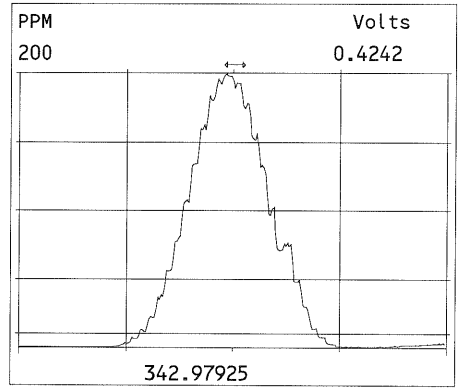


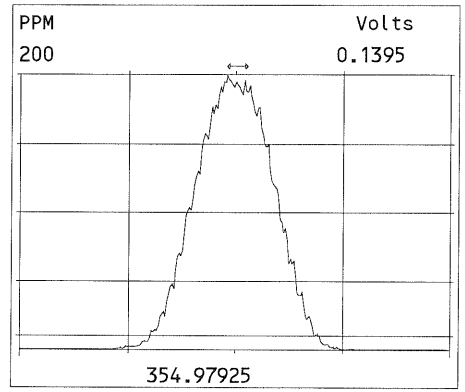


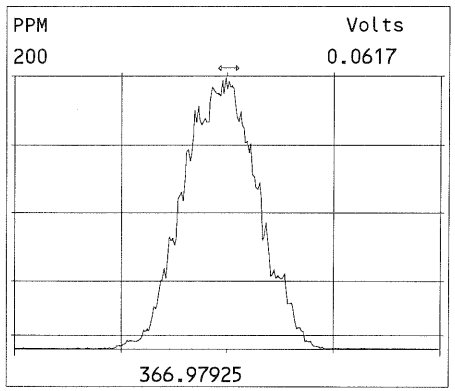
Peak Locate Examination:11-AUG-2016:11:24 File:11AUG16Z PFK01
Experiment:1668PCB Function:5 Reference:PFK

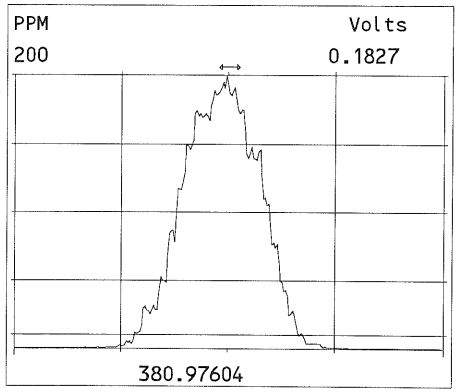


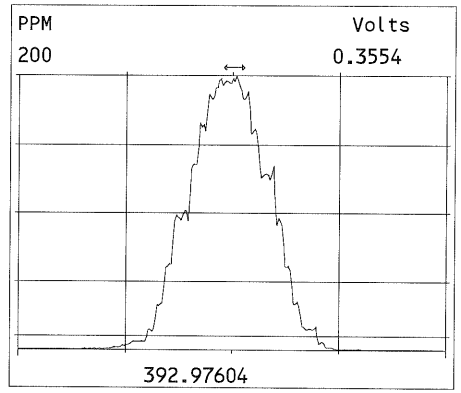


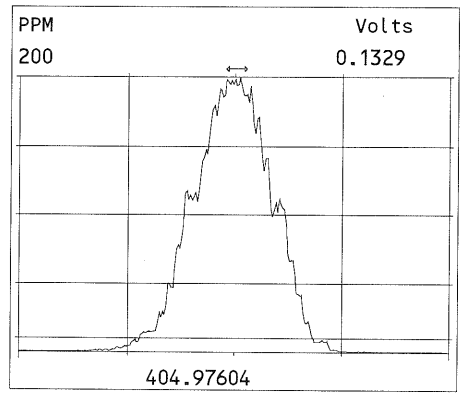


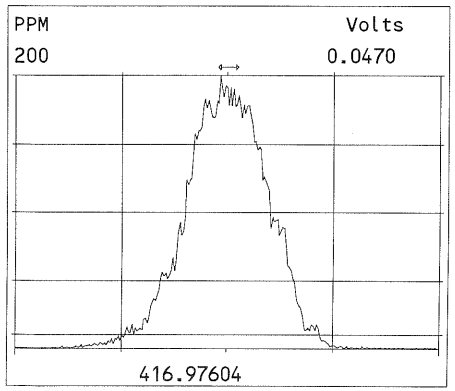


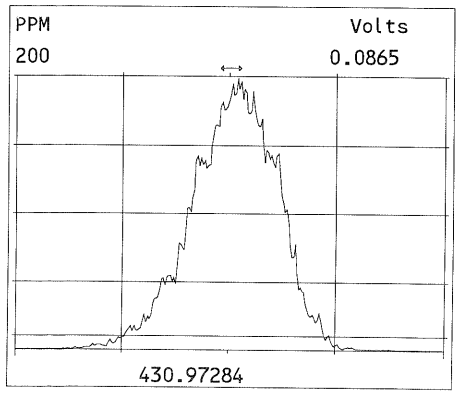


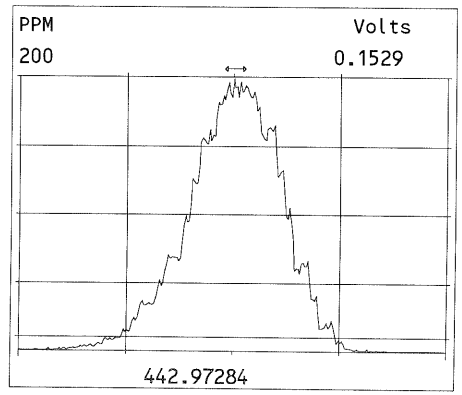






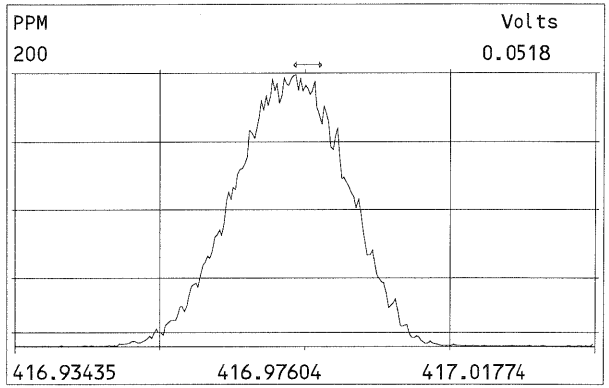


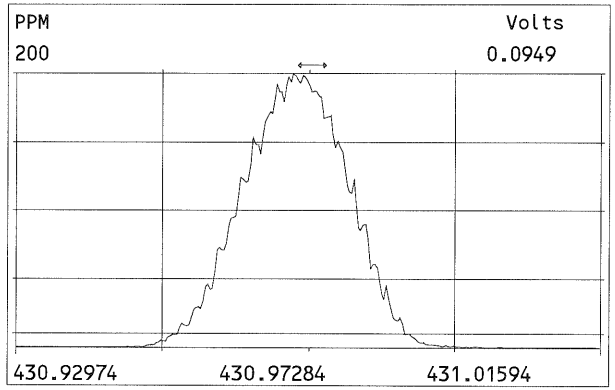


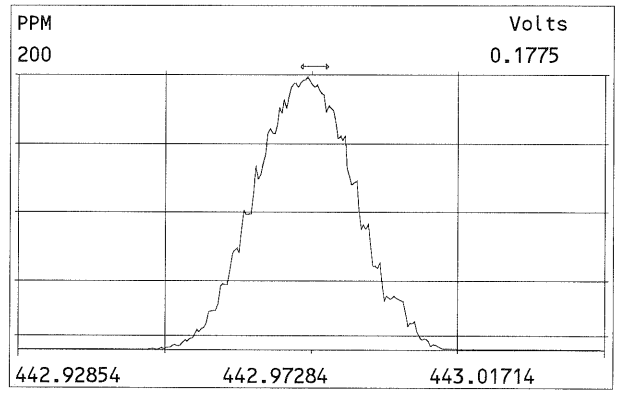


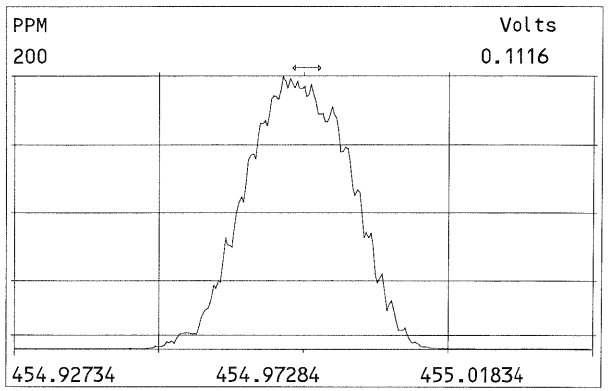
Peak Locate Examination:11-AUG-2016:11:25 File:11AUG16Z PFK01

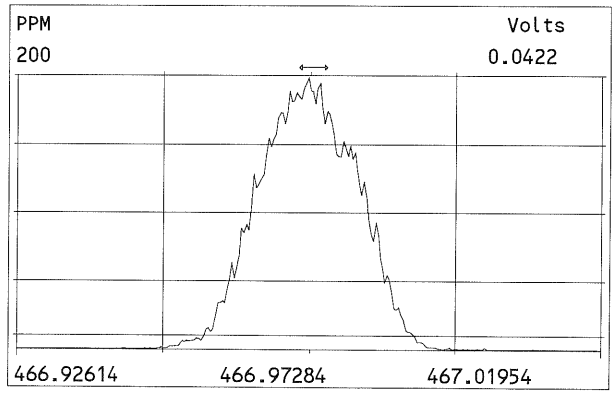
Experiment:1668PCB Function:6 Reference:PFK

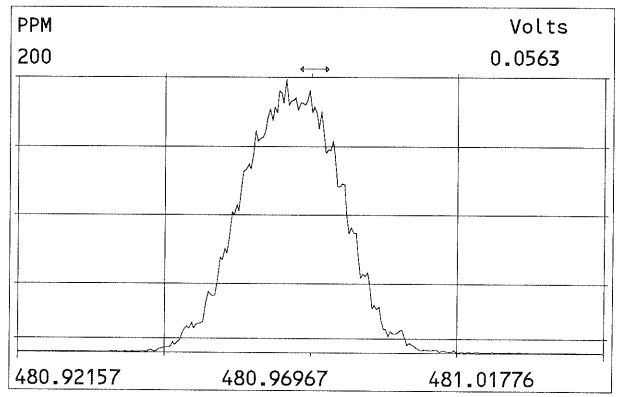


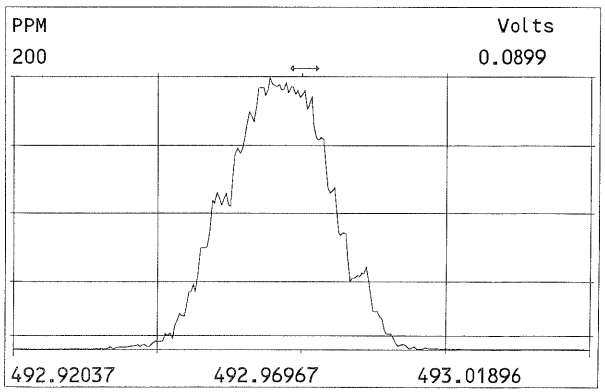


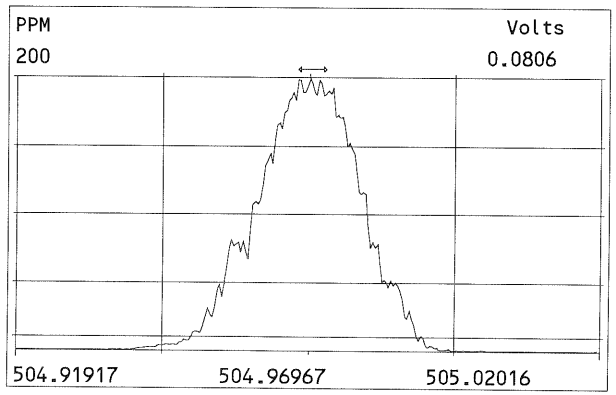


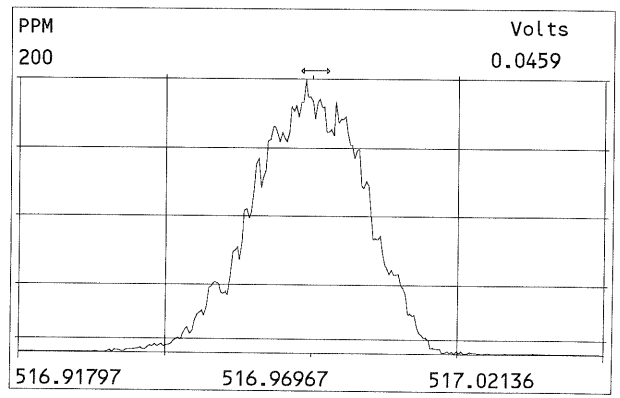




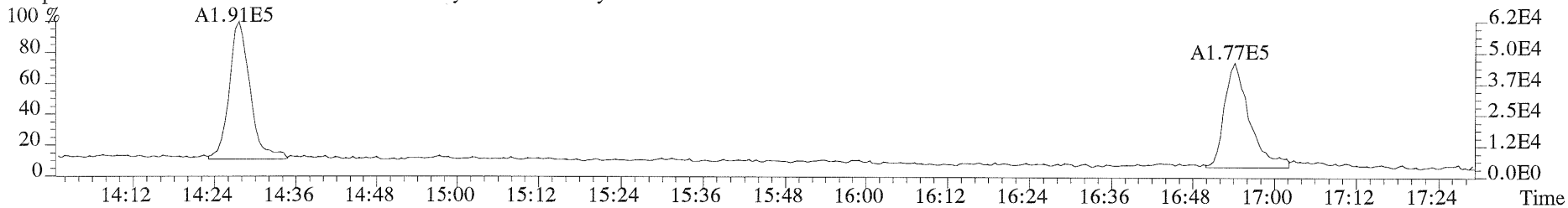








File:11AUG16Z #1-900 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-900 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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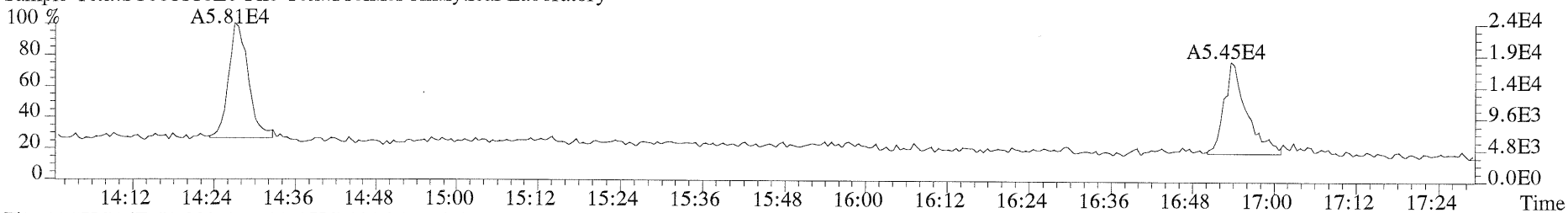

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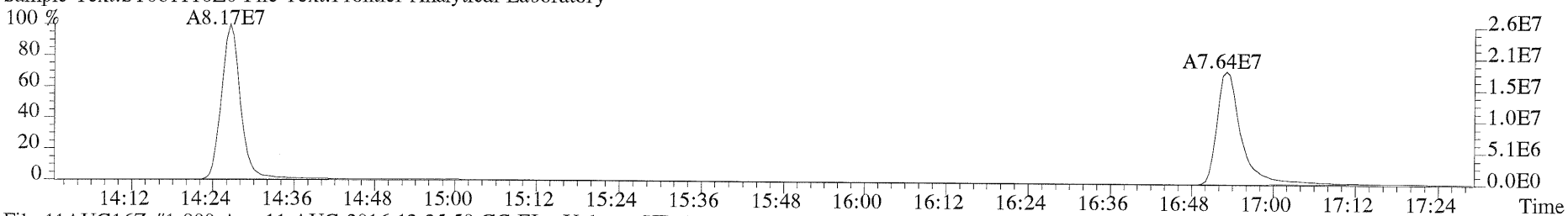
200.0795 S:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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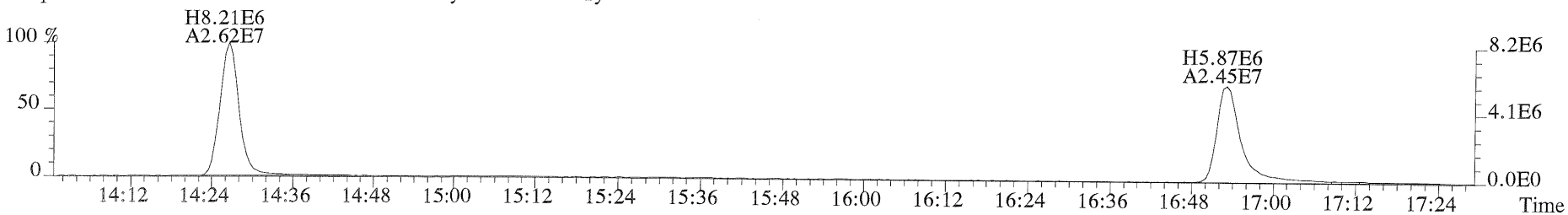
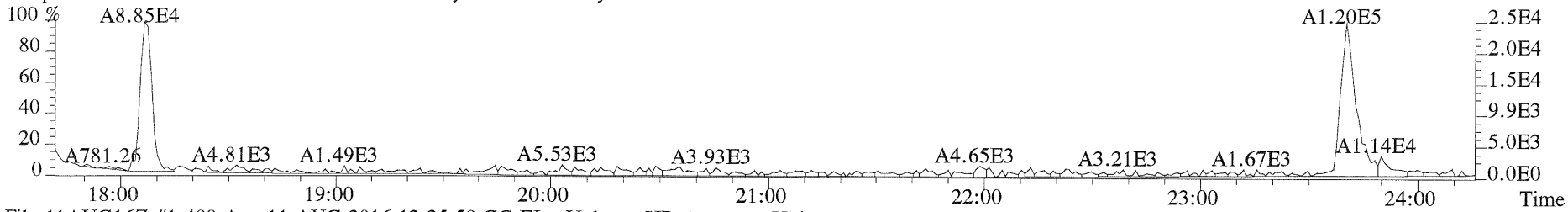
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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



File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
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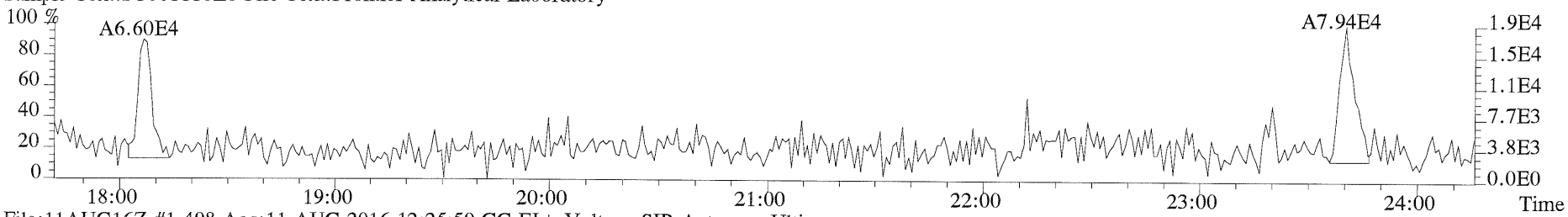
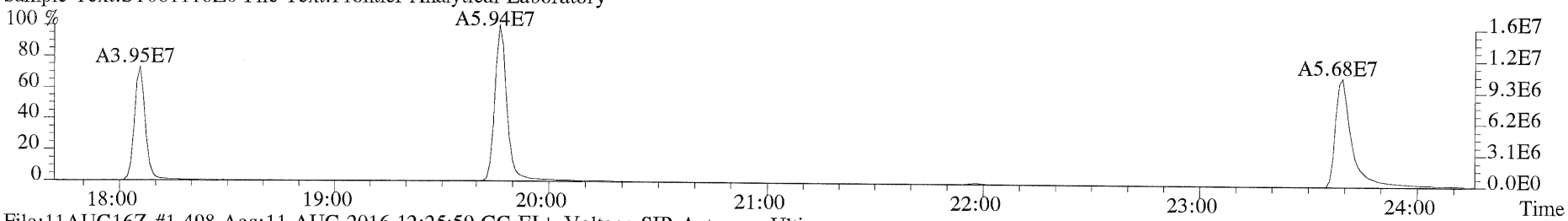
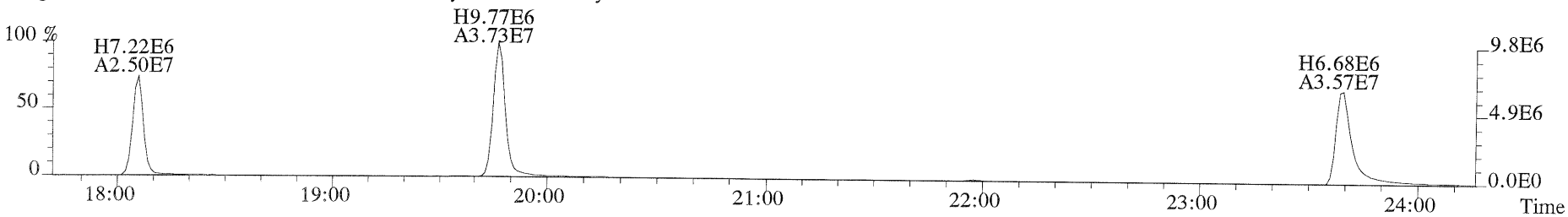
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



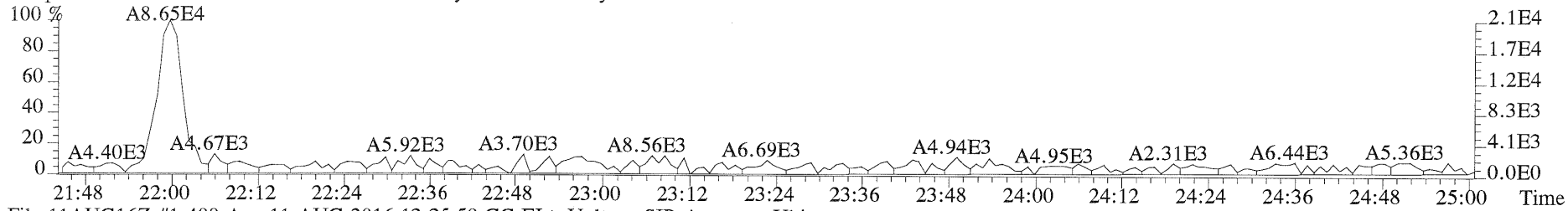
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



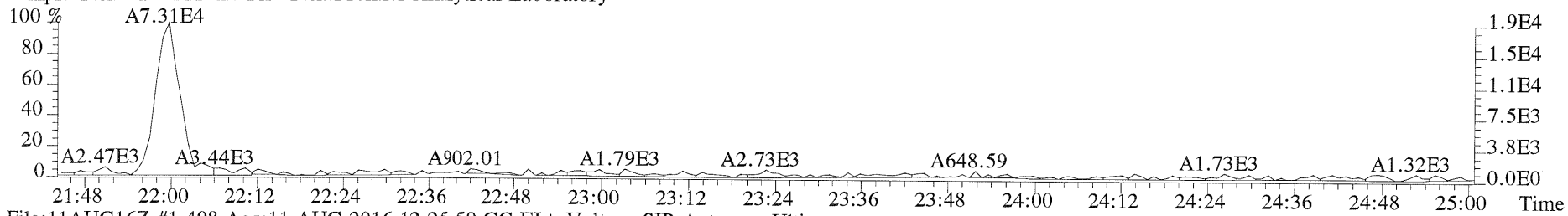
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



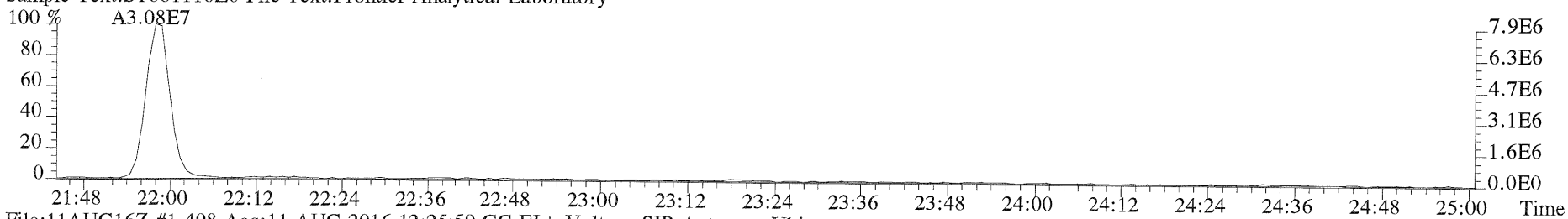
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



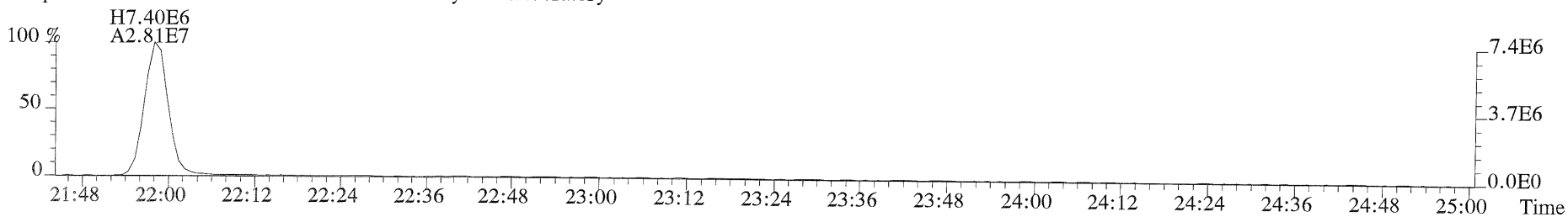
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



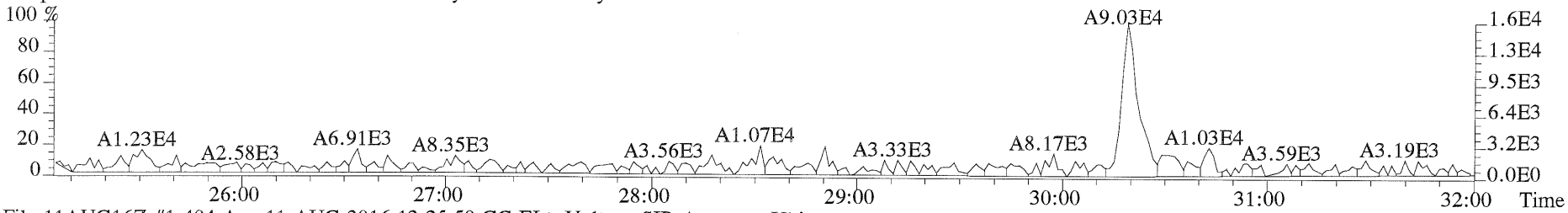
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



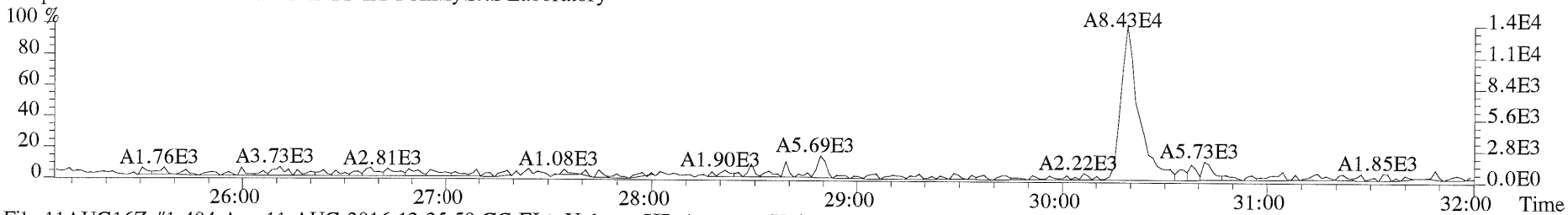
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
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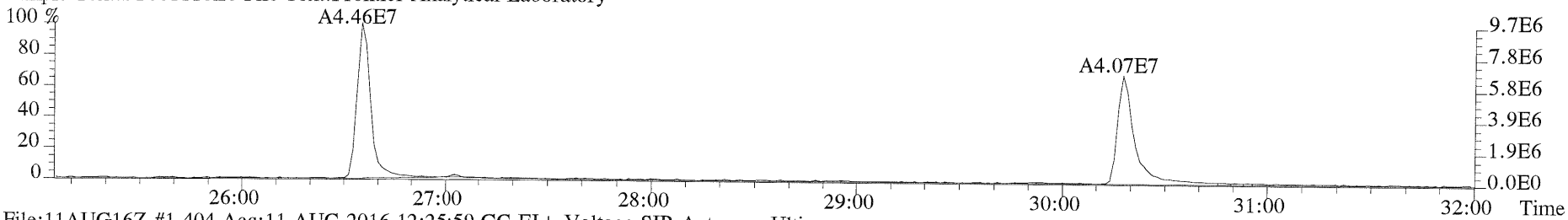
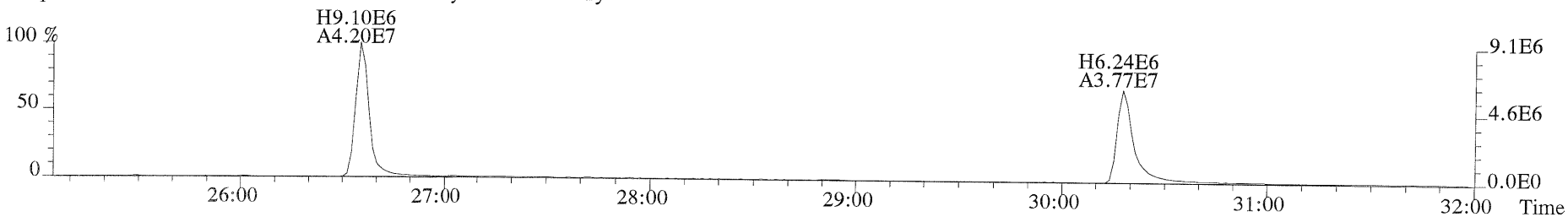
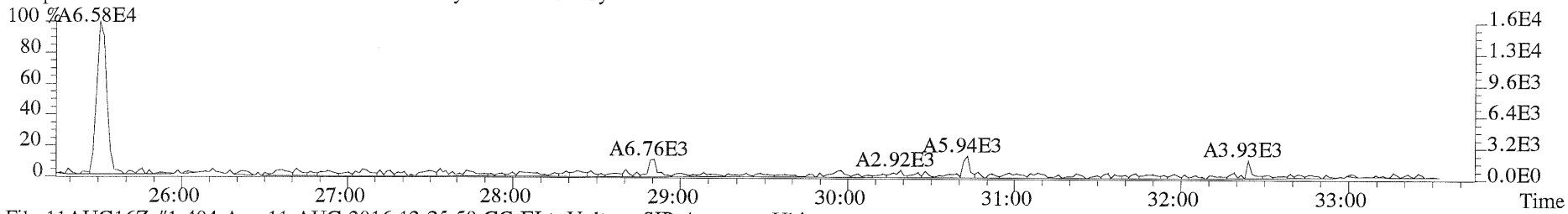
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



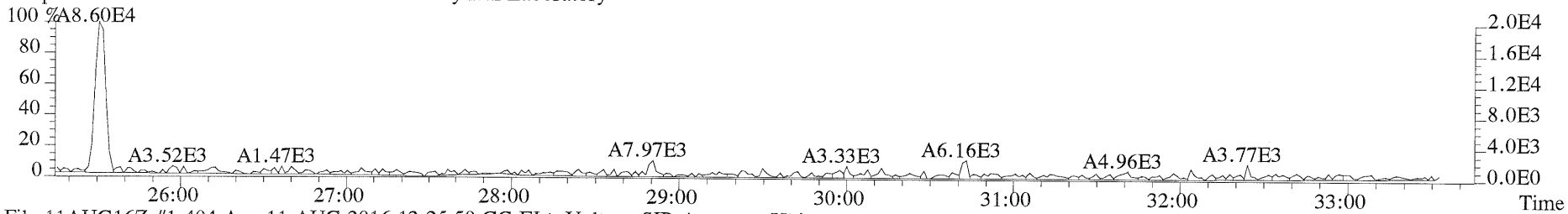
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



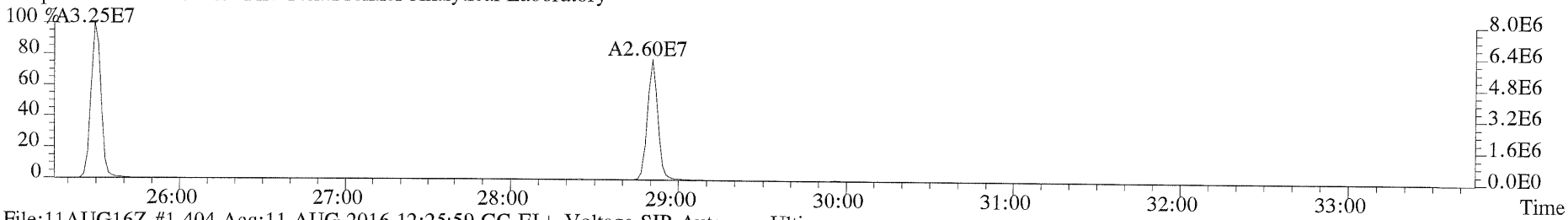
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



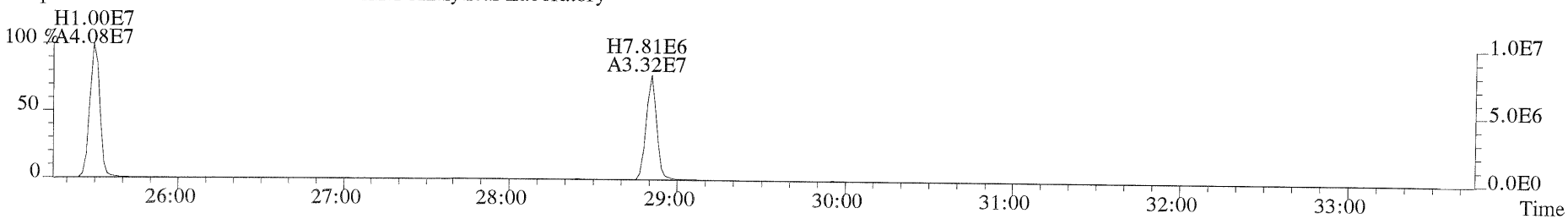
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



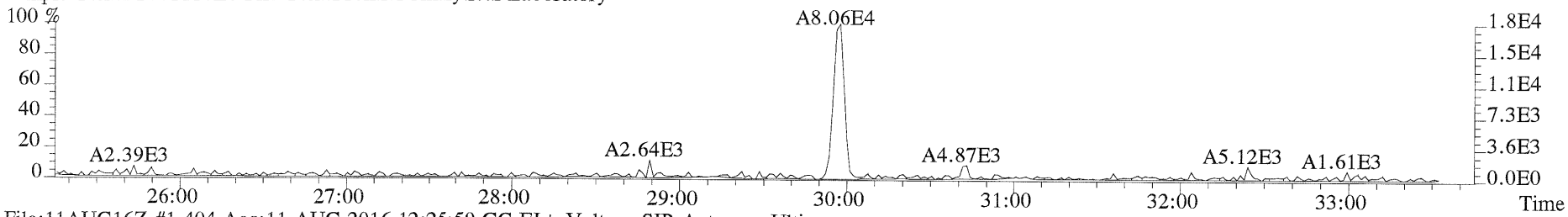
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



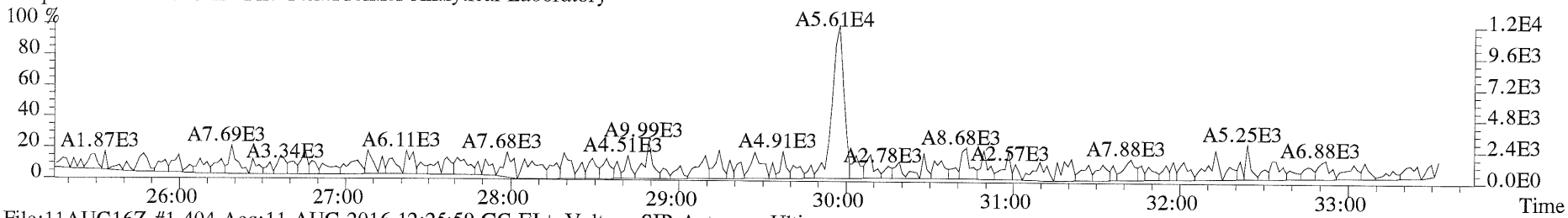
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



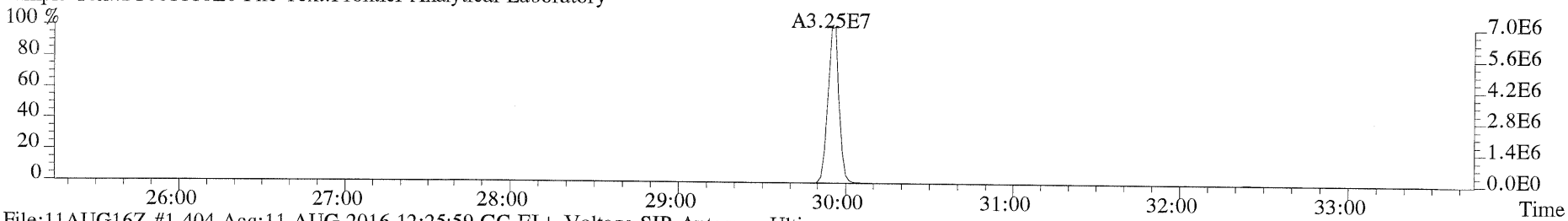
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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
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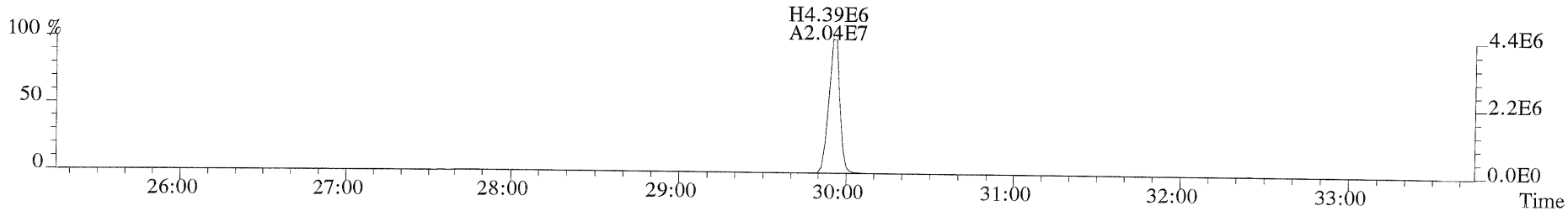
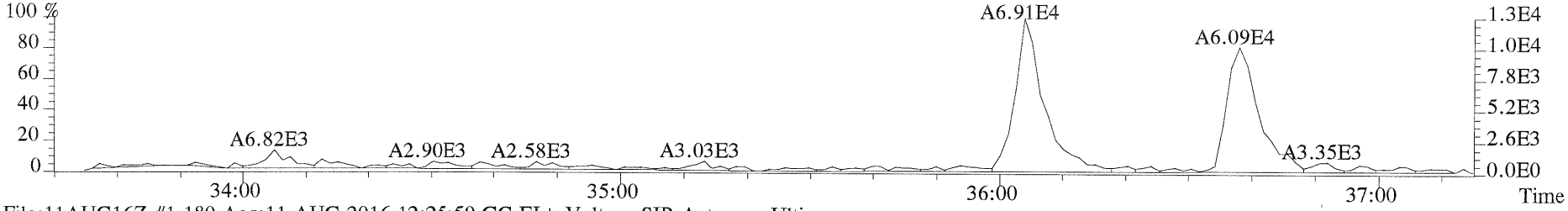
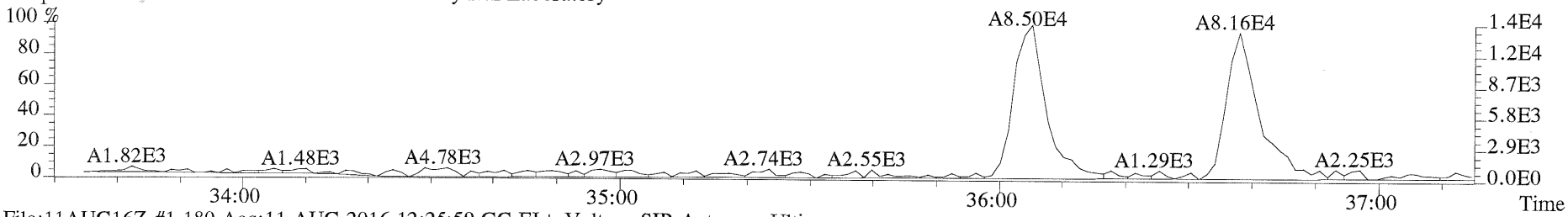
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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



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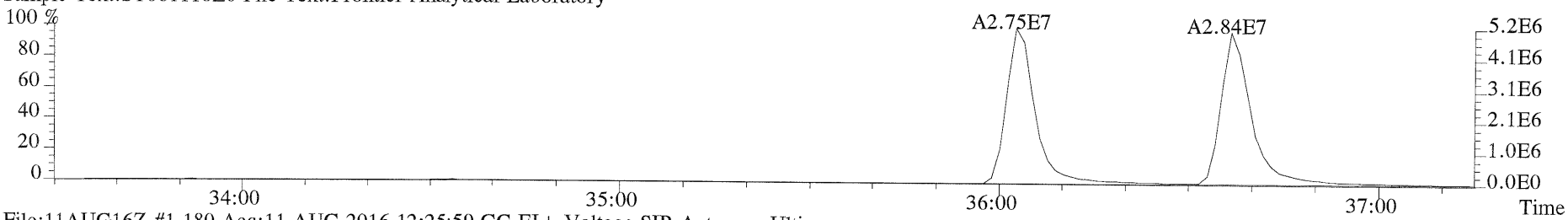
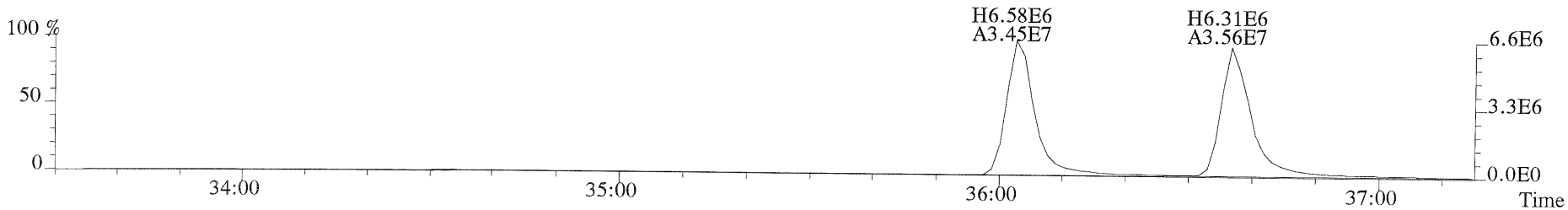
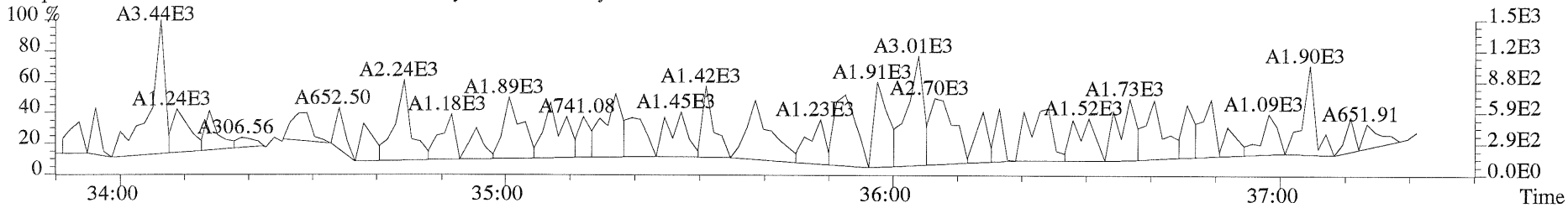
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



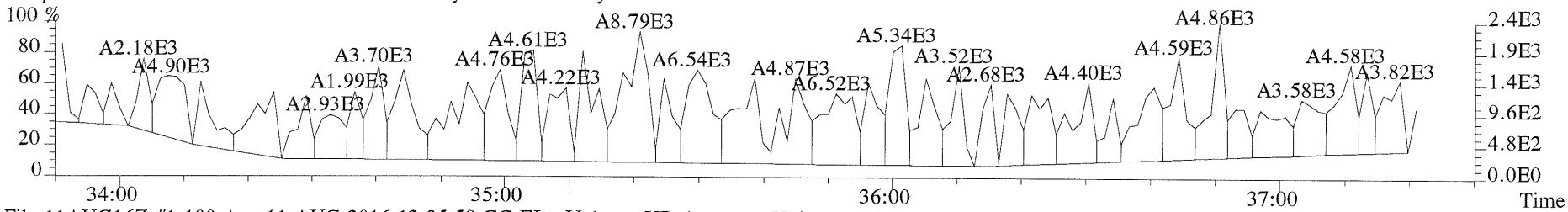
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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
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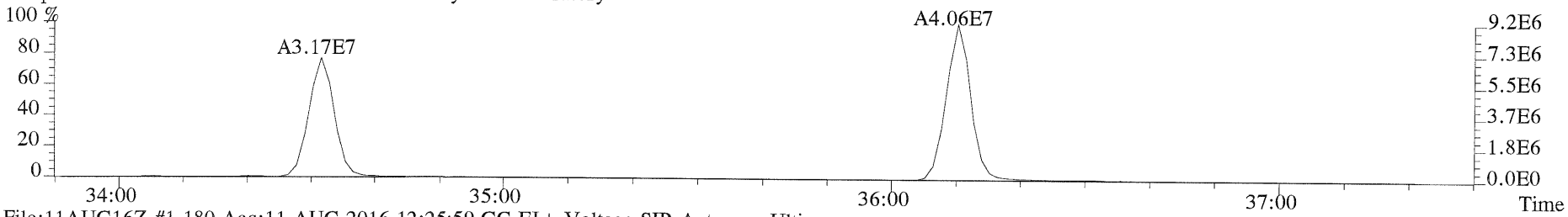
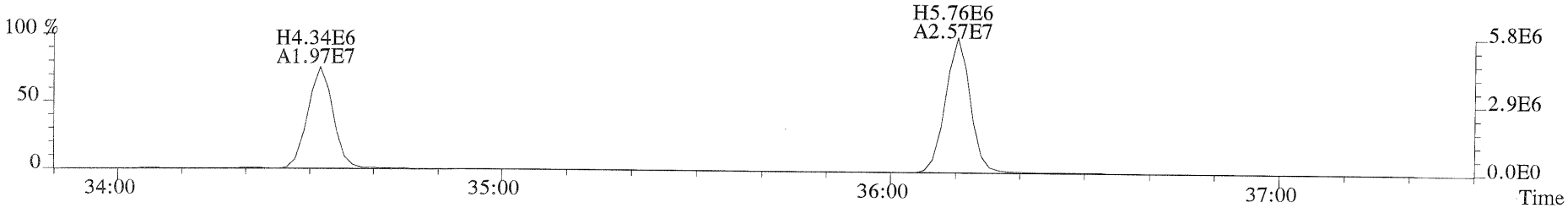
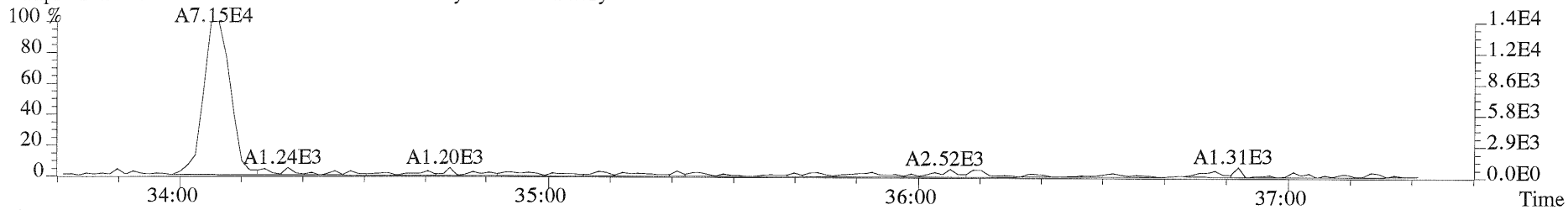
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



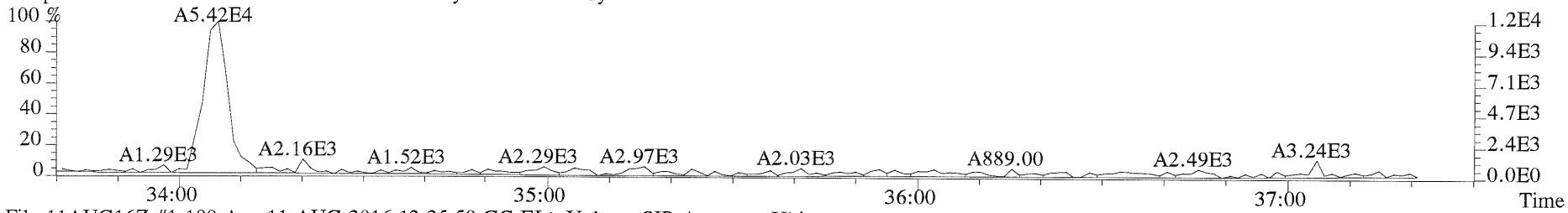
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



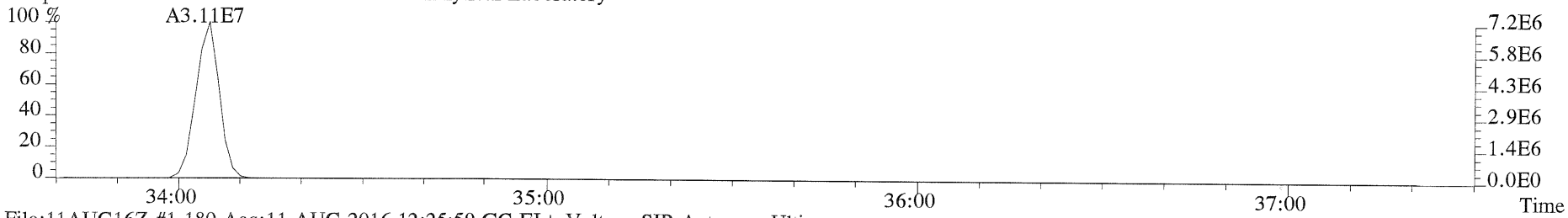
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



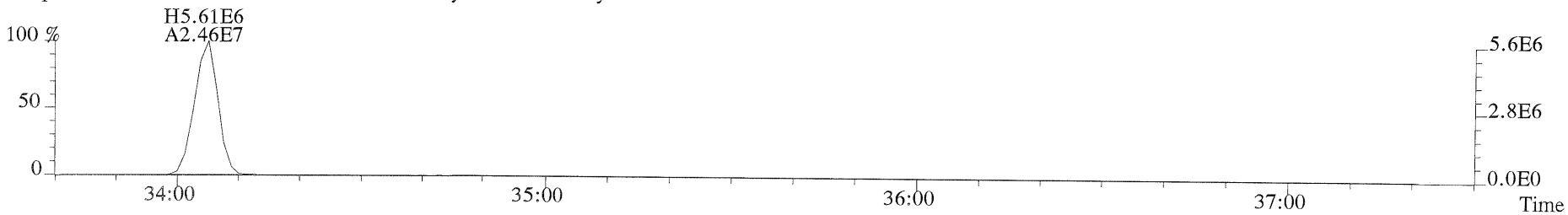
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



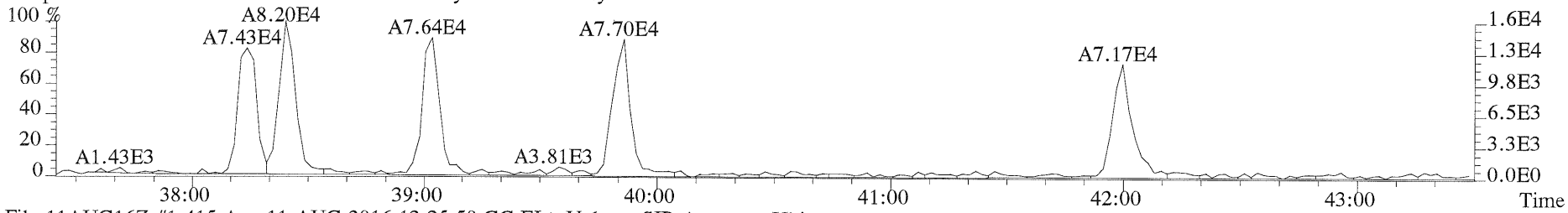
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



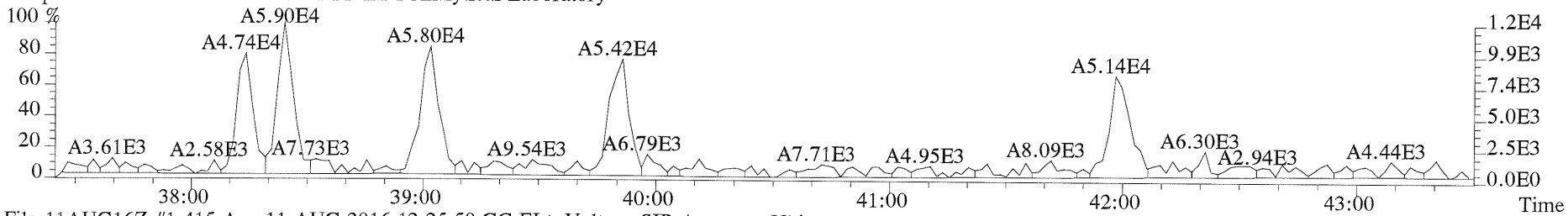
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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



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



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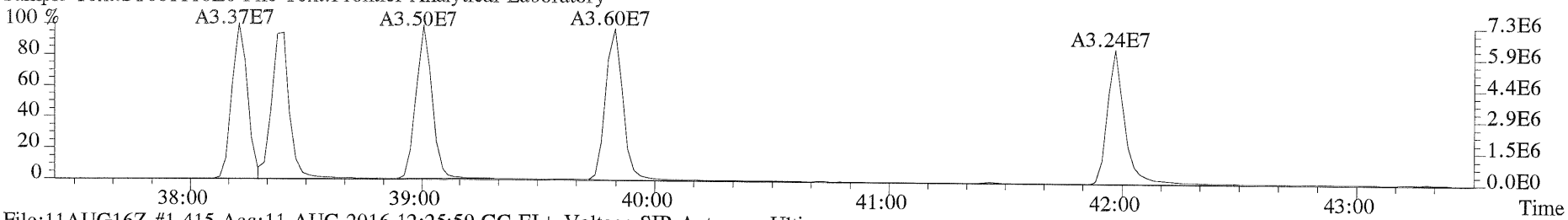
337.9207 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
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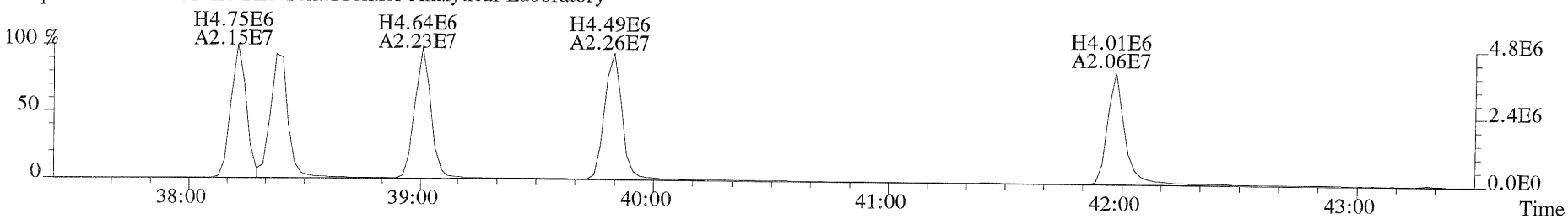
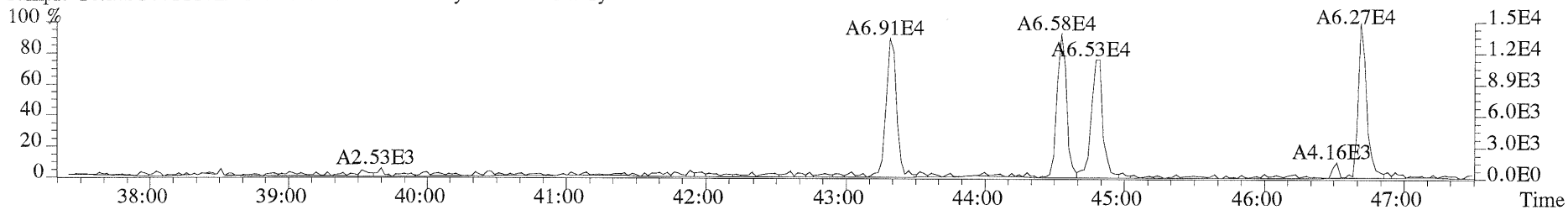
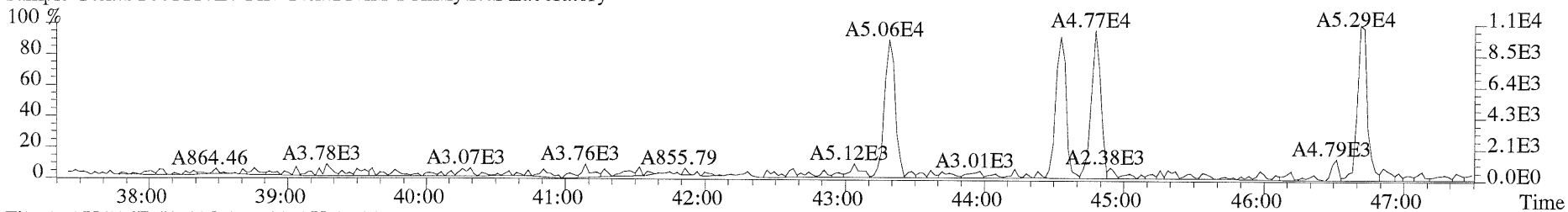
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



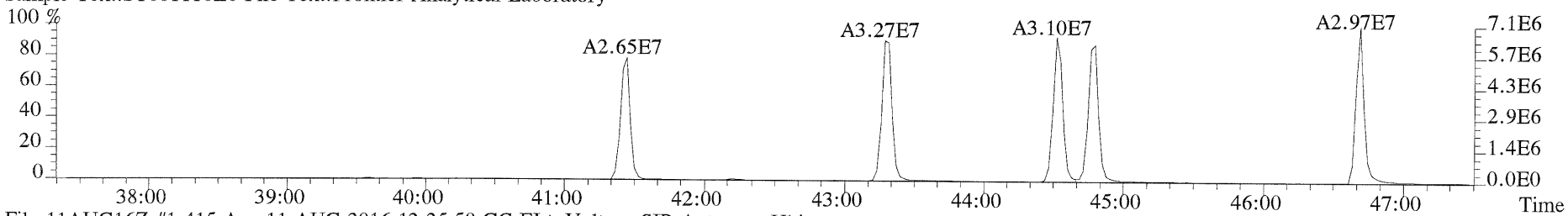
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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



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



File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
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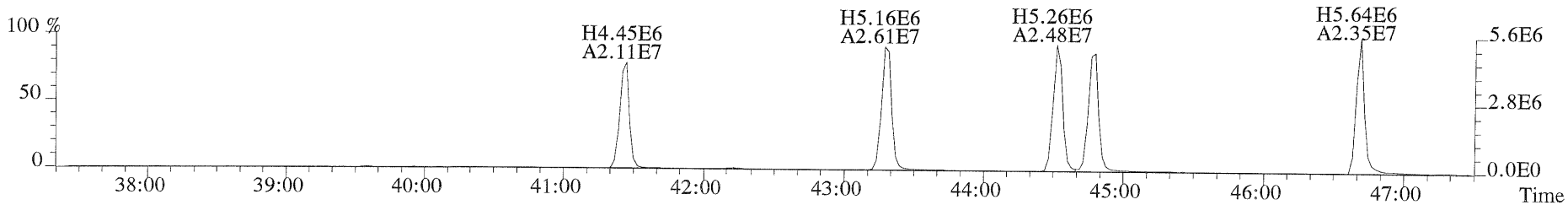
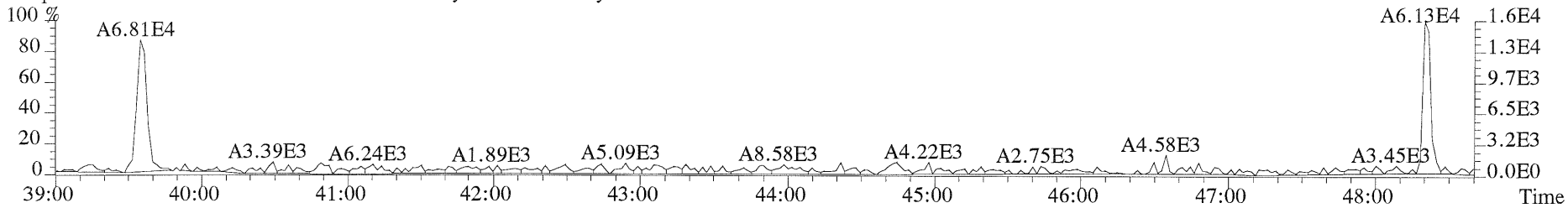
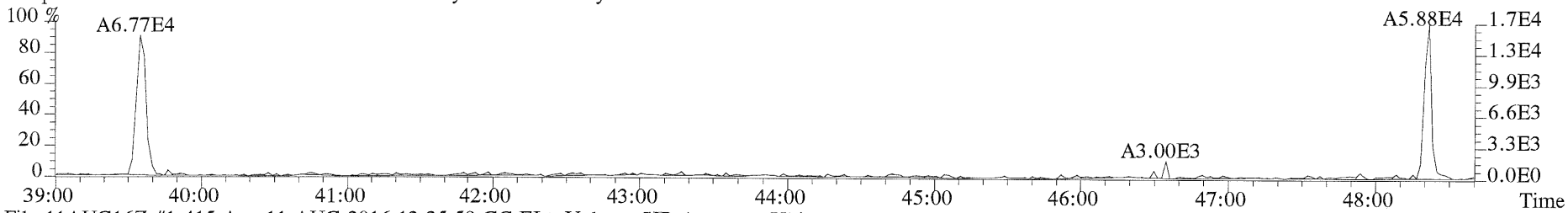
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



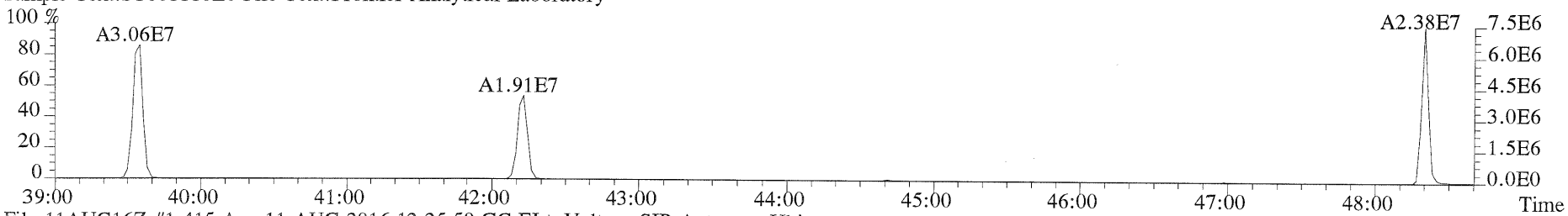
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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



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



File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
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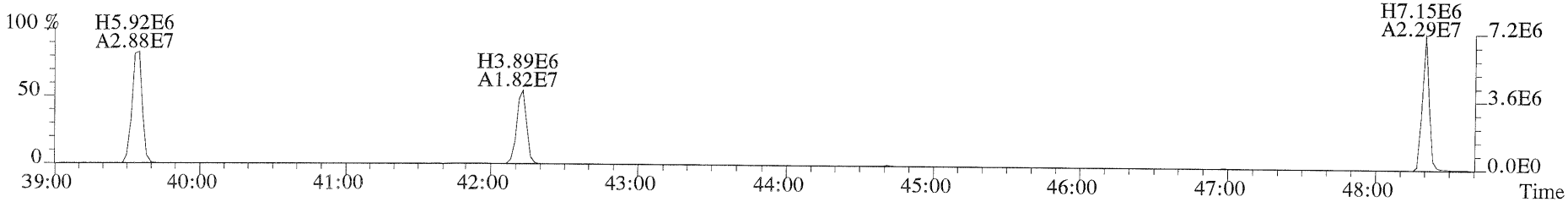
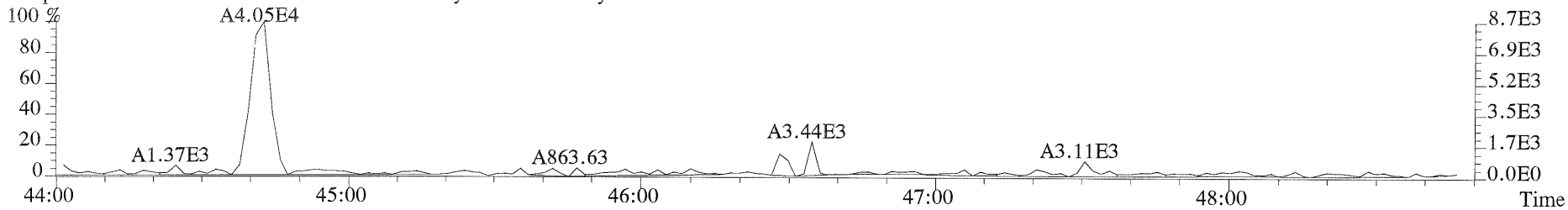
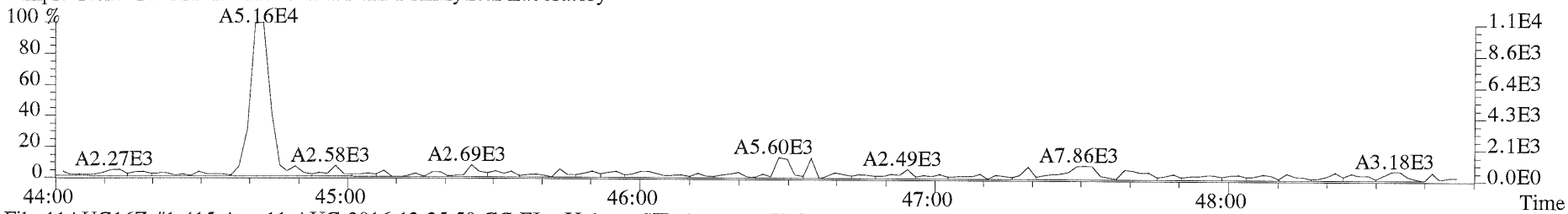
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



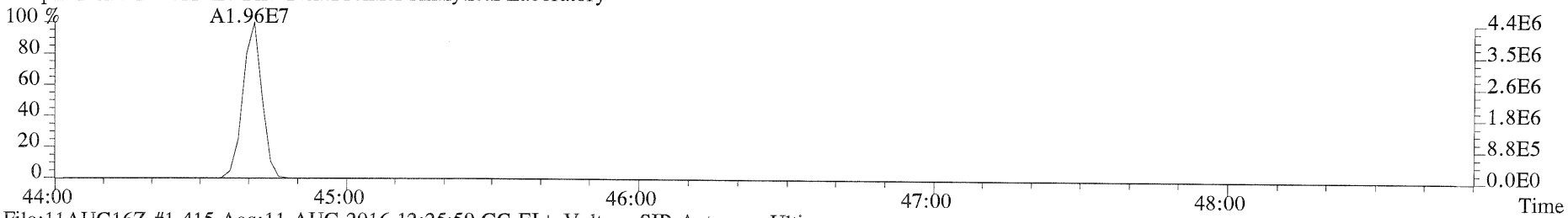
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



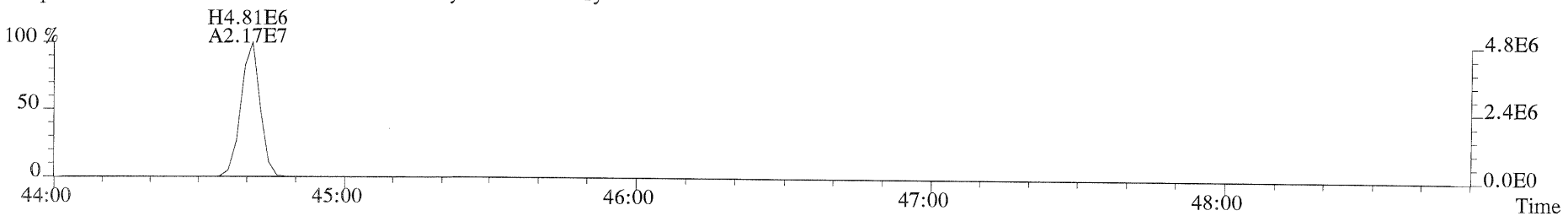
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



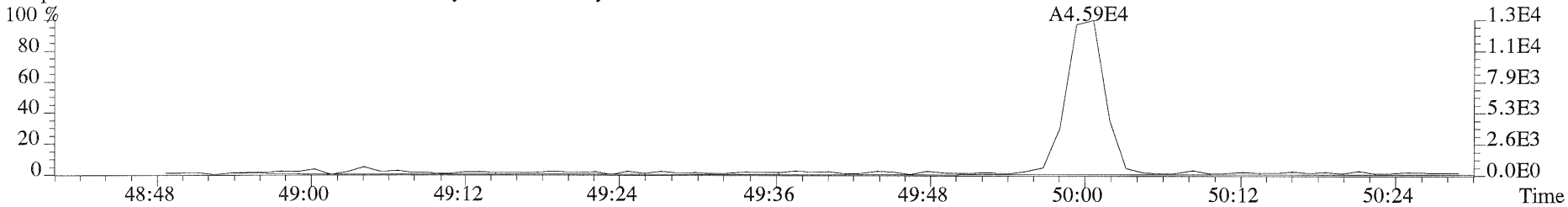
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



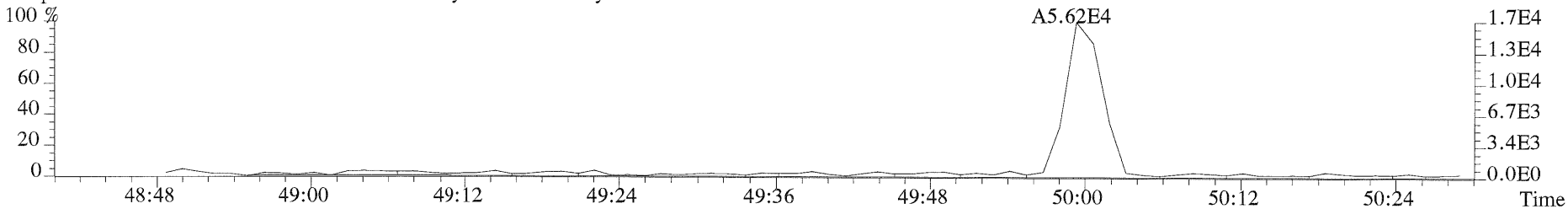
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



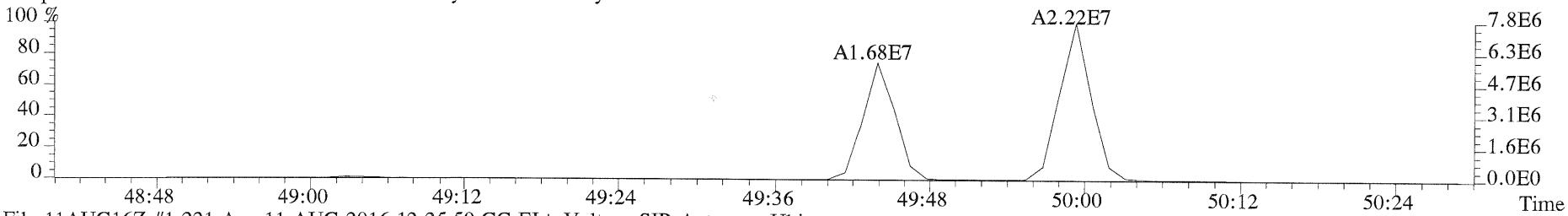
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



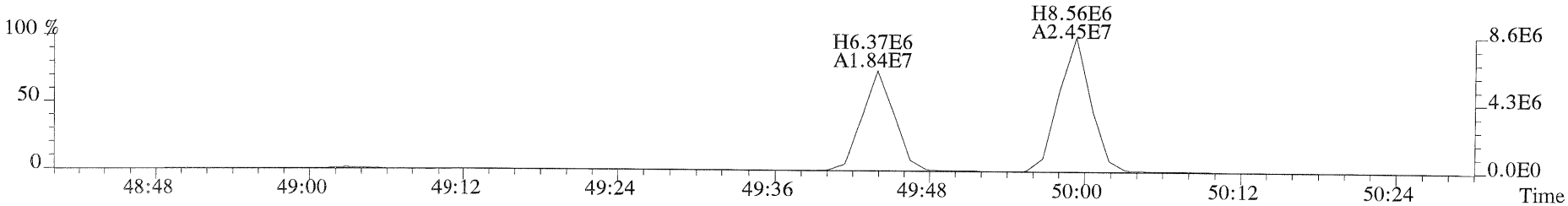
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



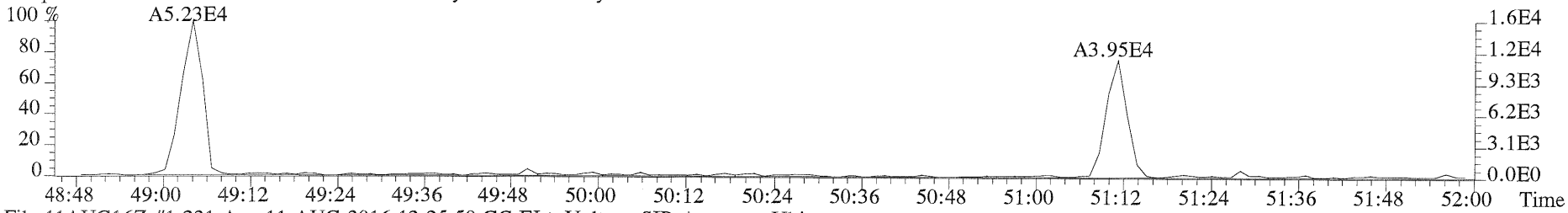
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



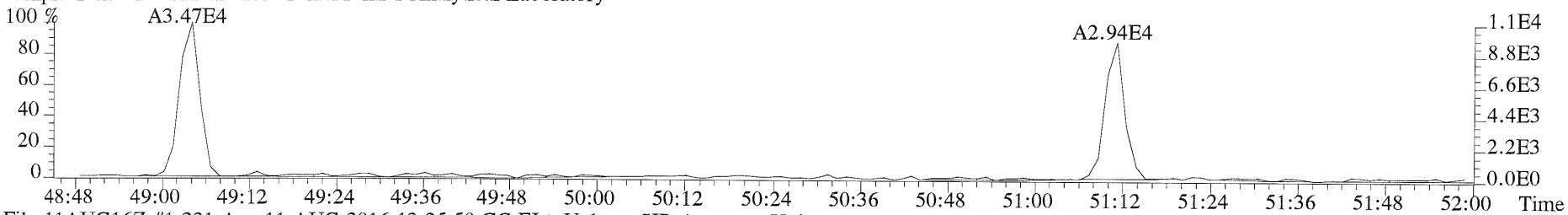
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



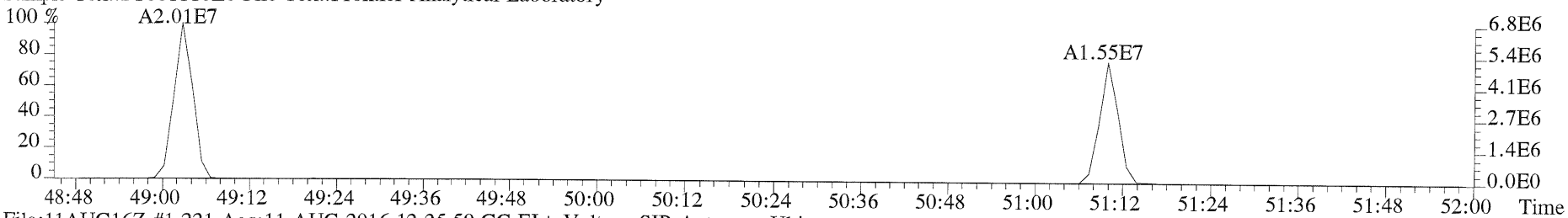
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



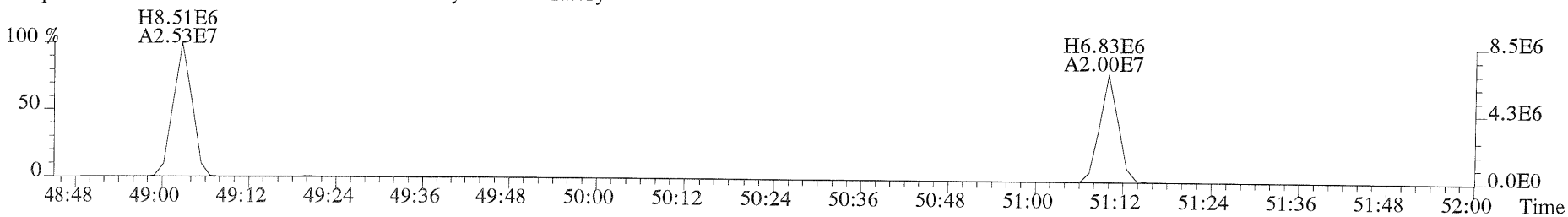
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



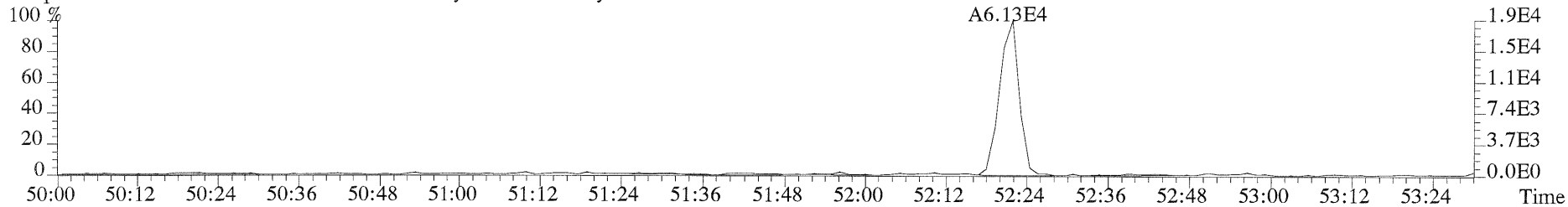
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



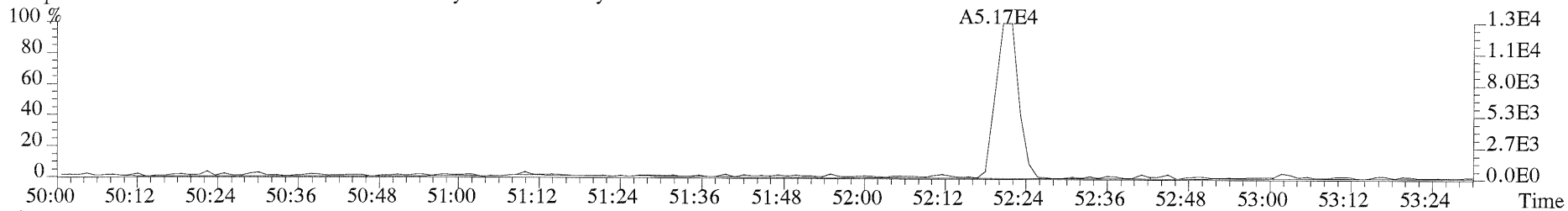
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



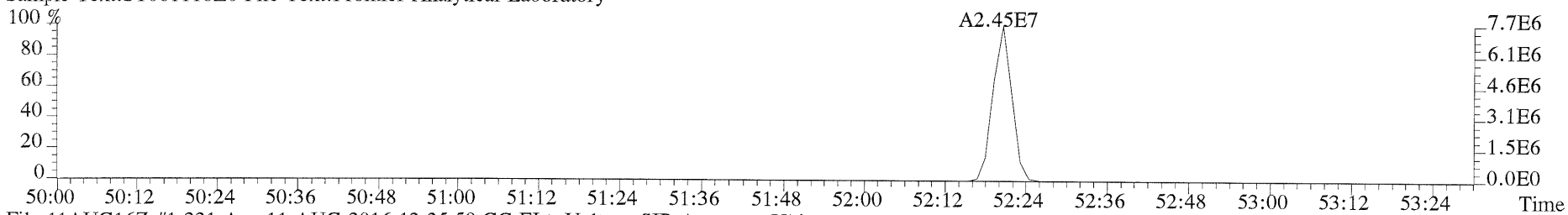
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



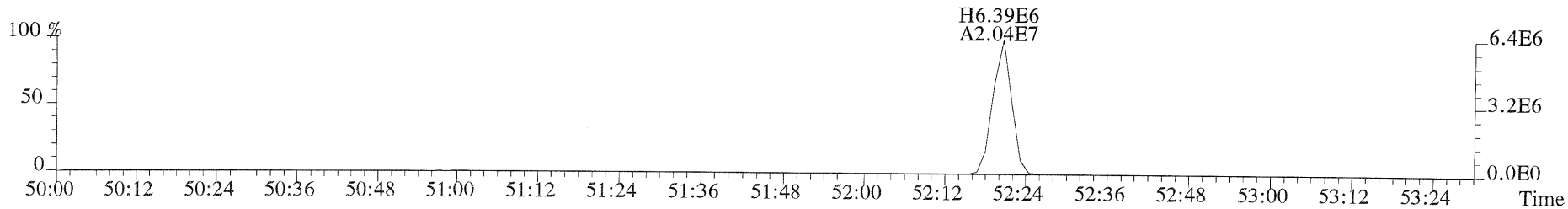
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



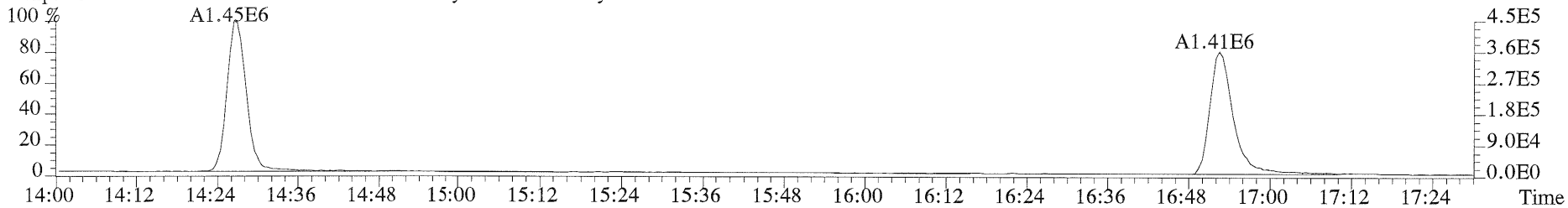
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



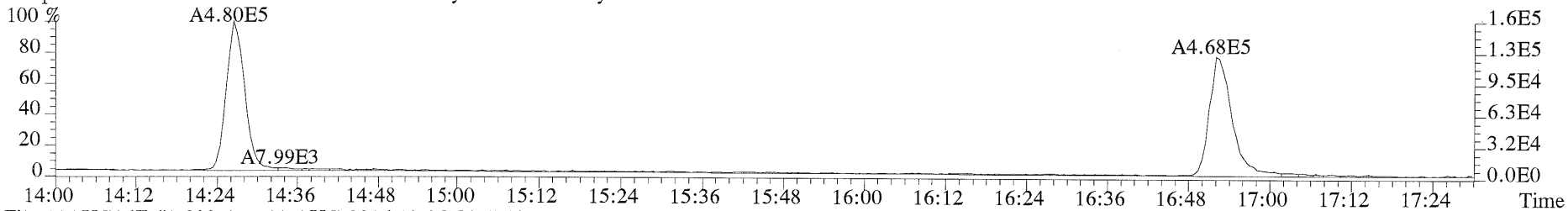
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



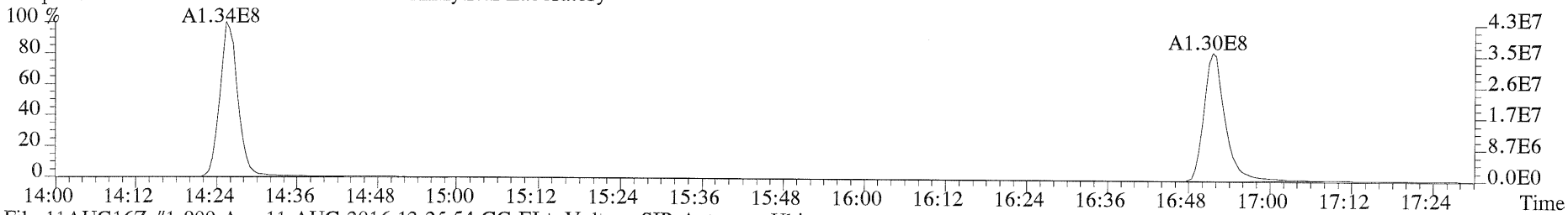
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



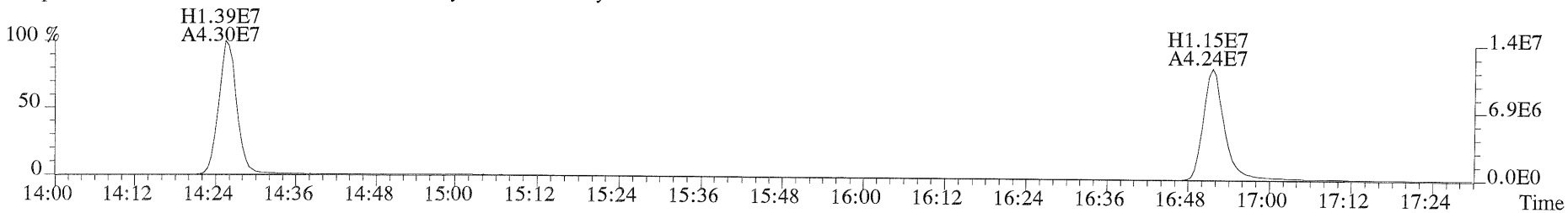
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



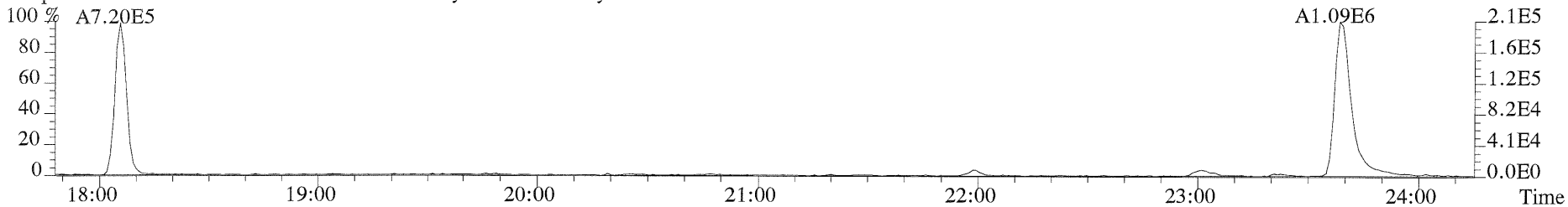
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



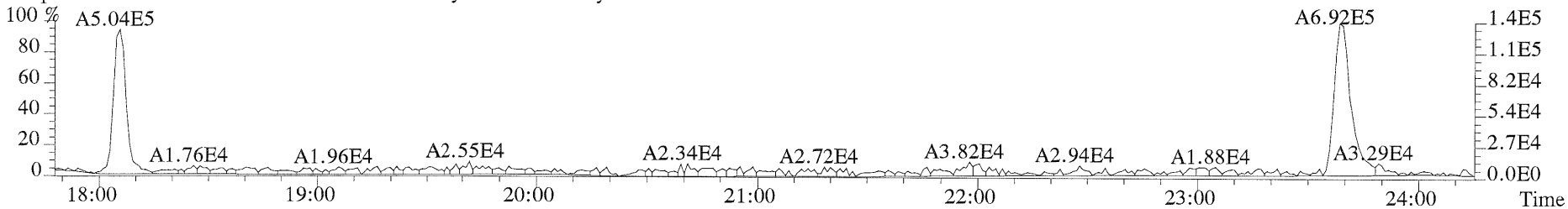
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



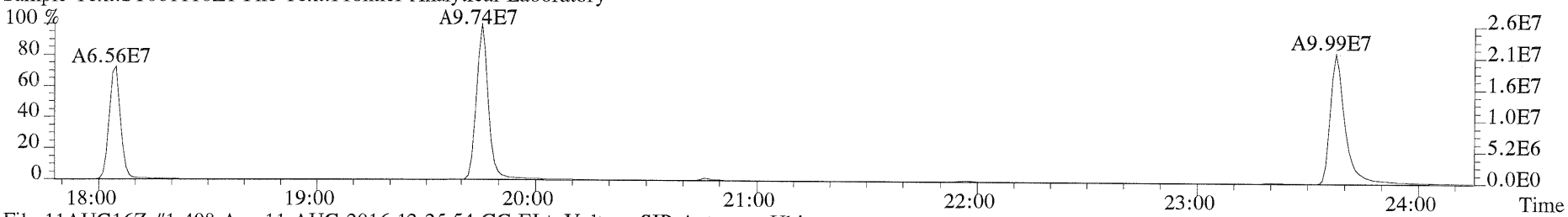
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



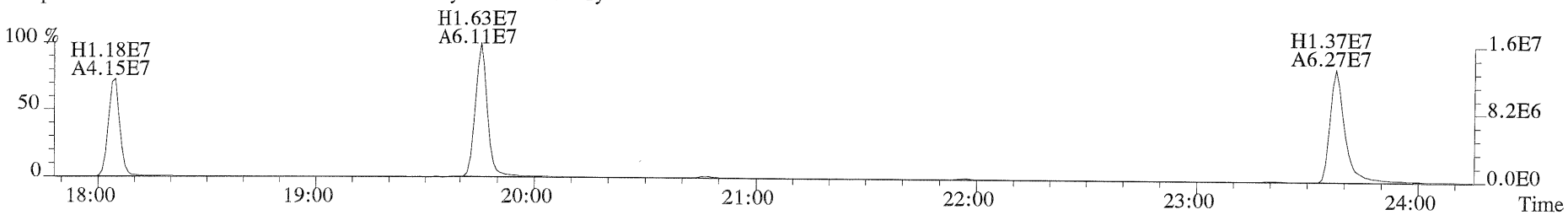
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



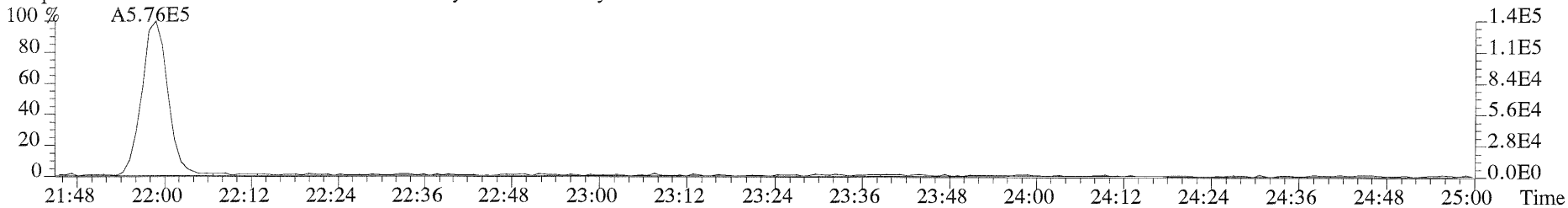
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



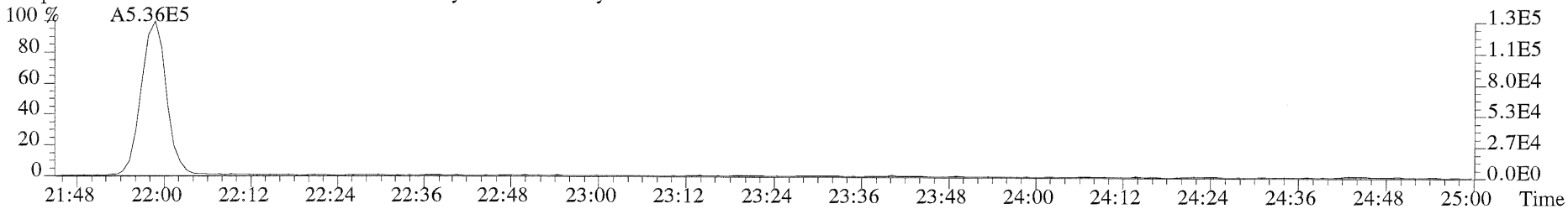
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



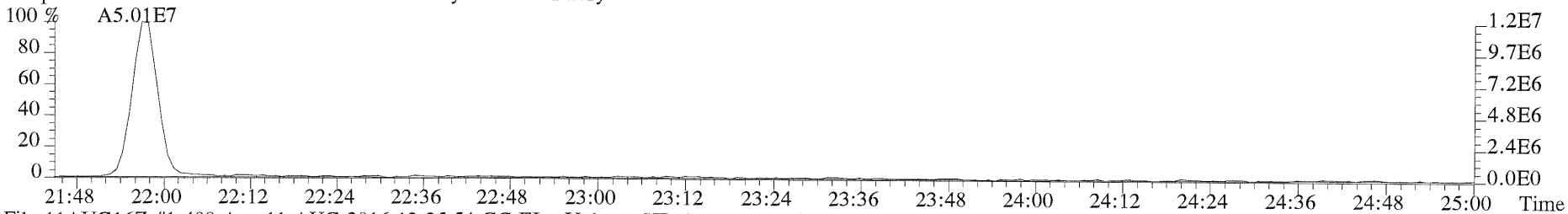
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



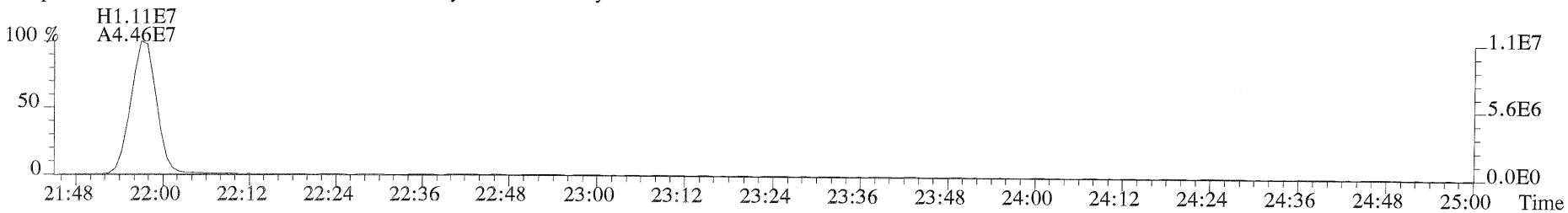
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



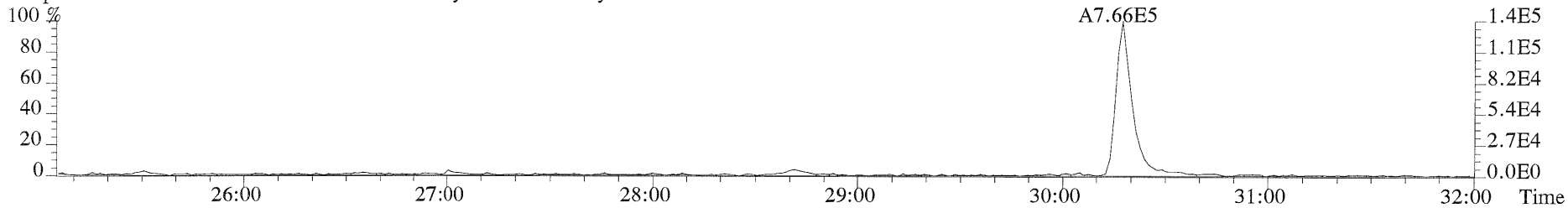
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



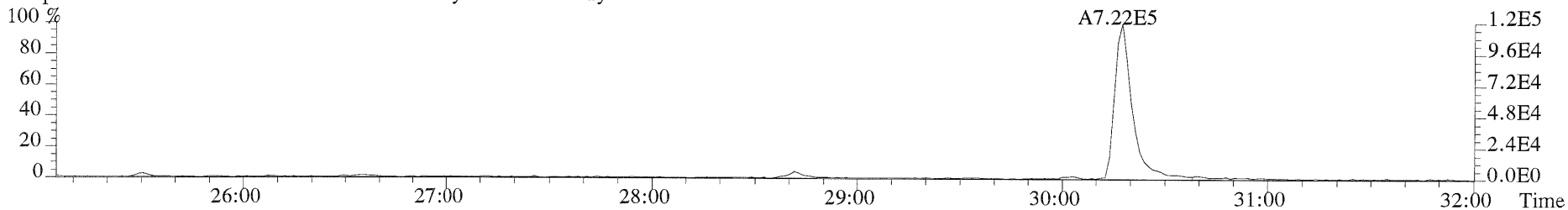
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



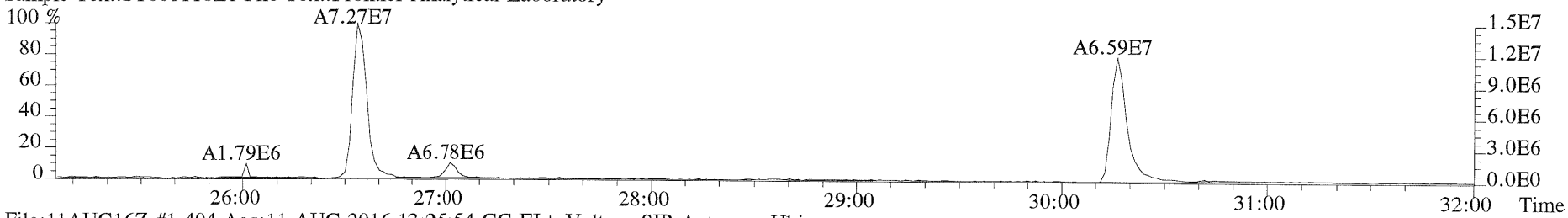
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



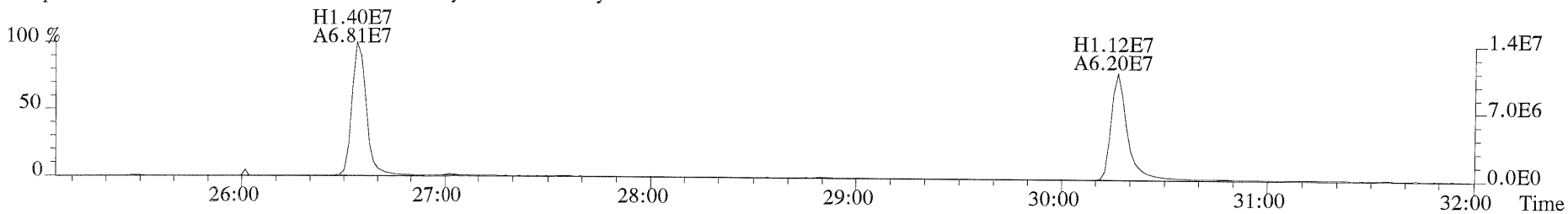
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



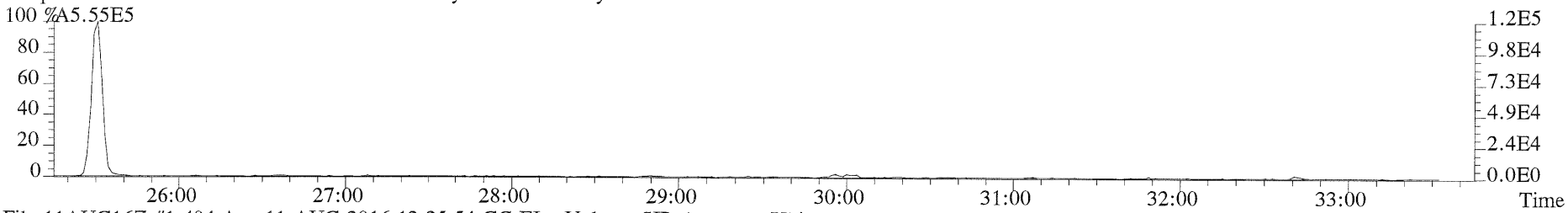
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



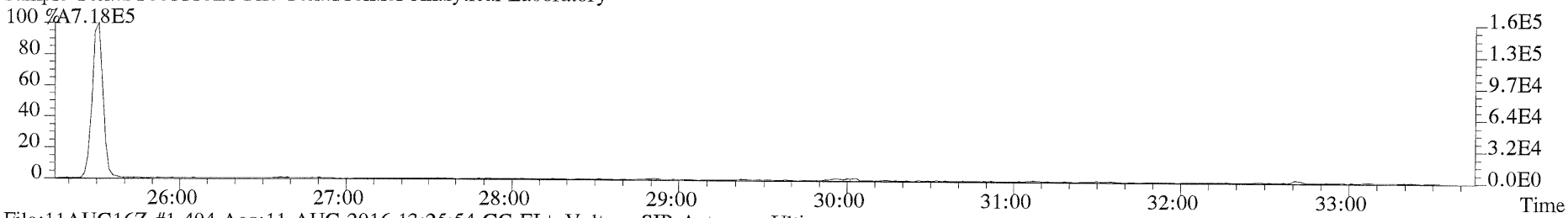
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



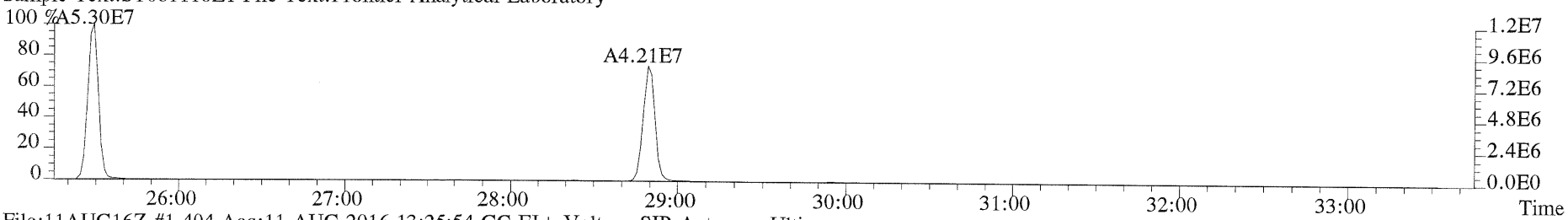
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



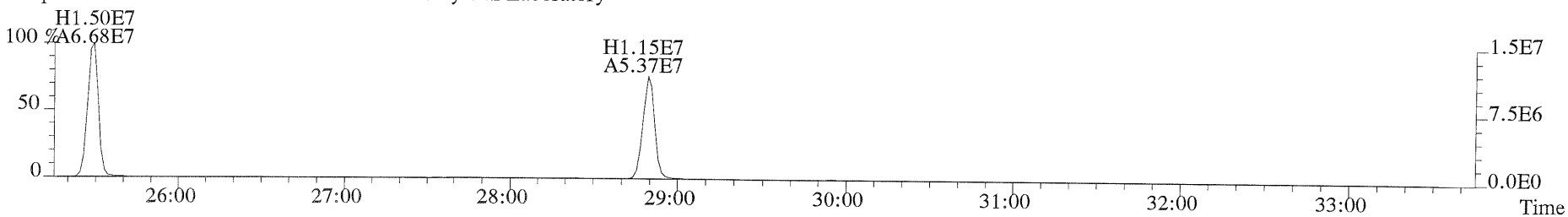
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



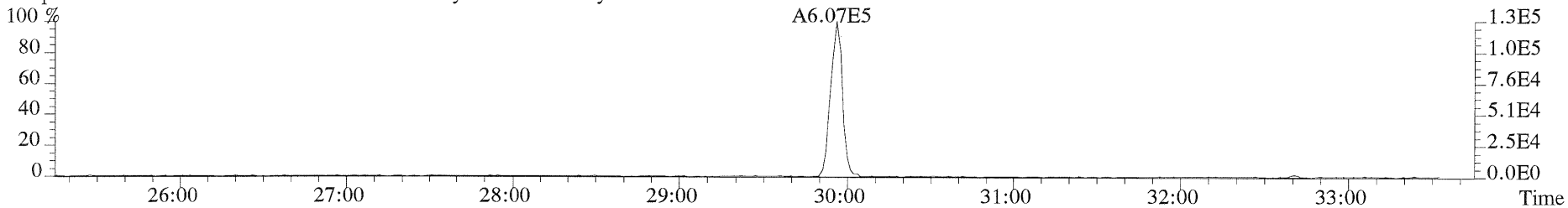
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



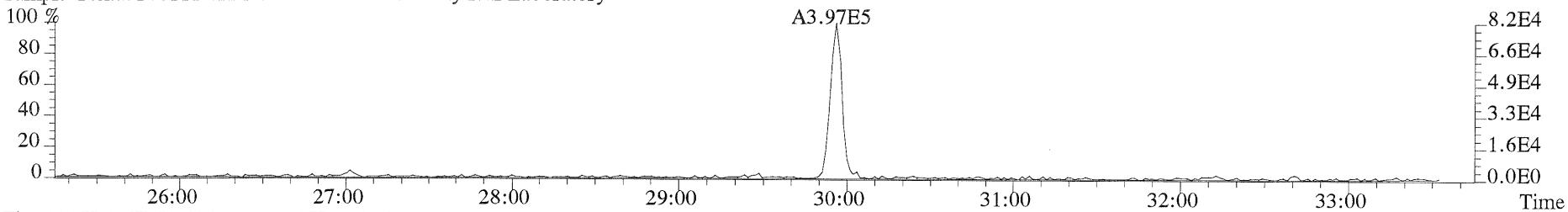
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



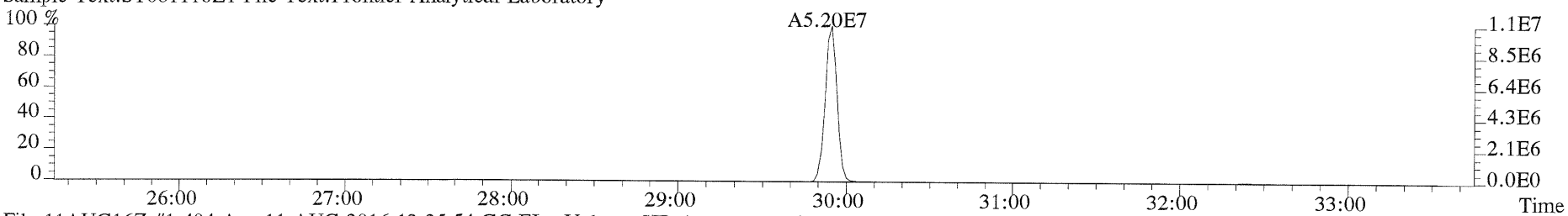
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



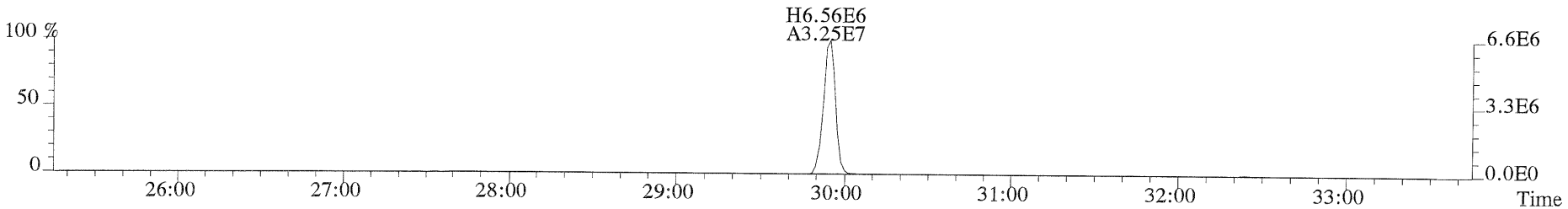
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



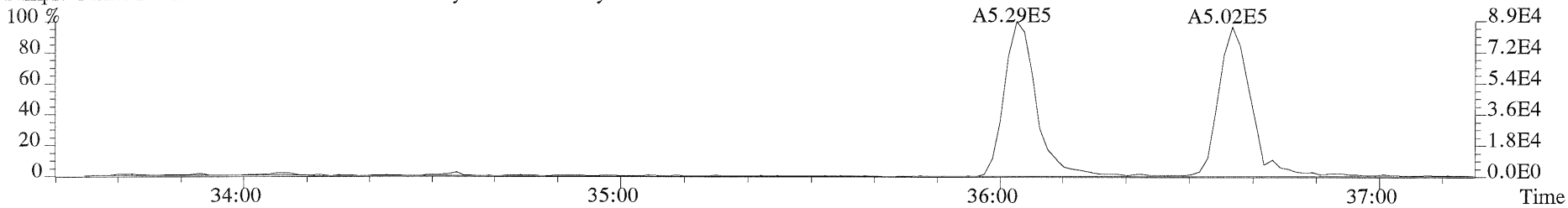
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



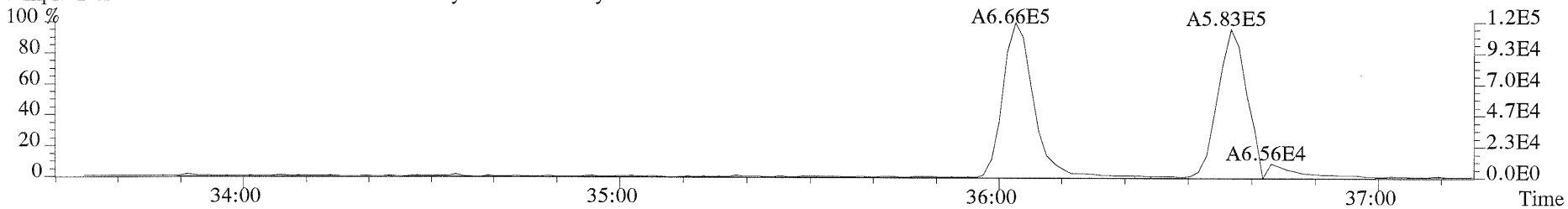
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



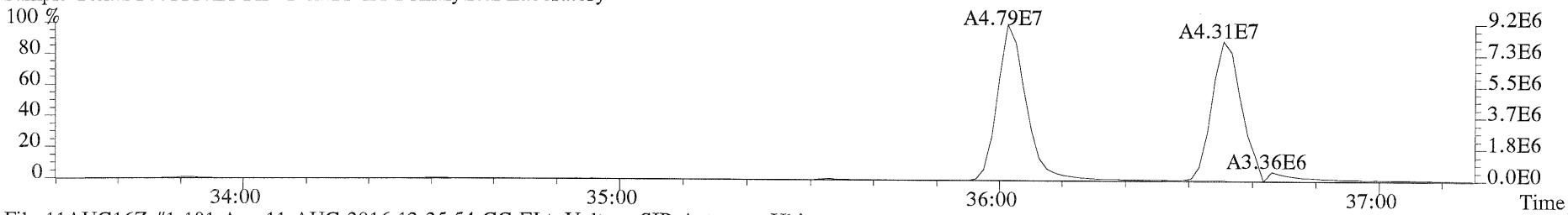
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



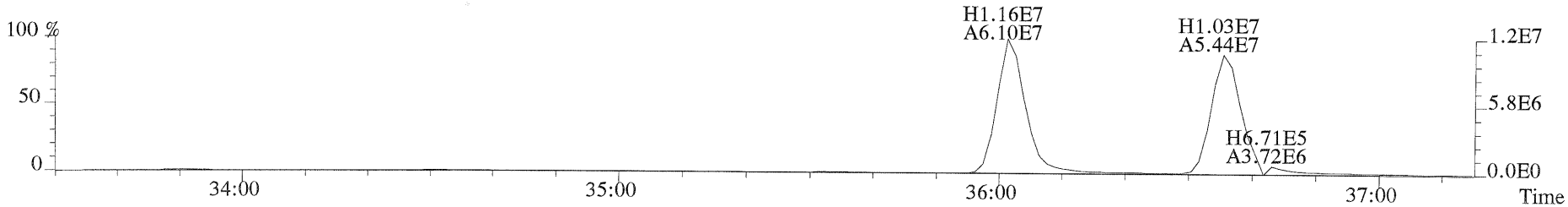
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



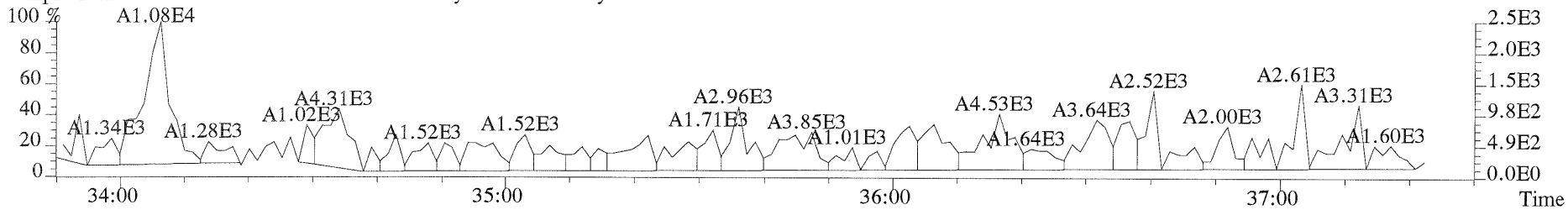
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



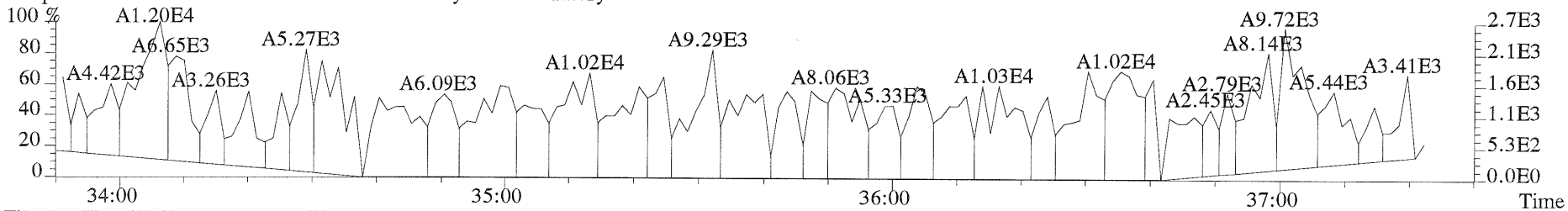
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



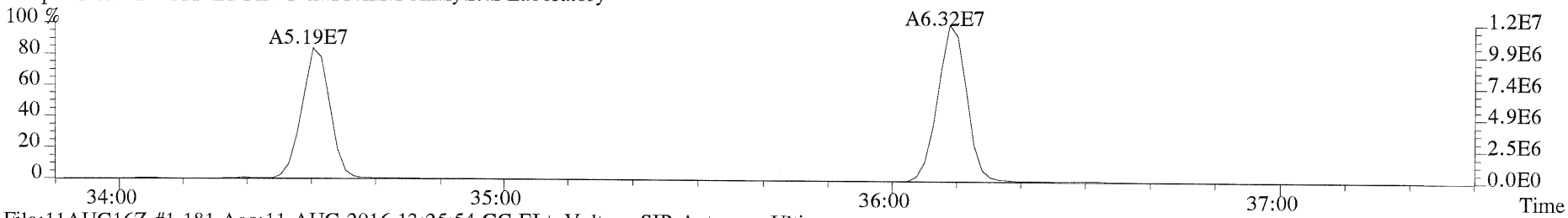
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



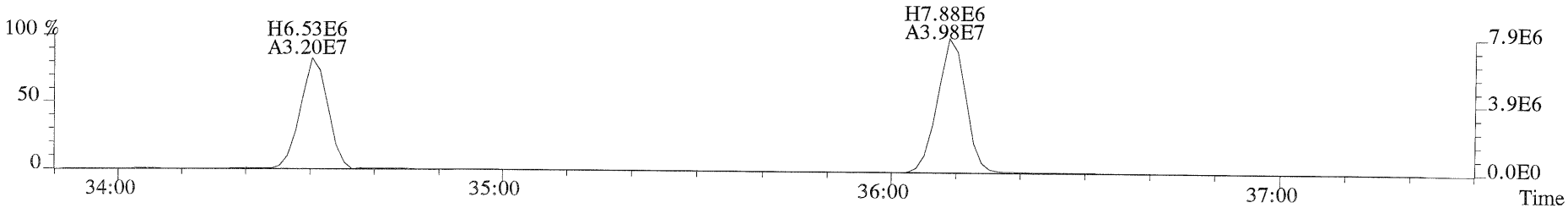
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



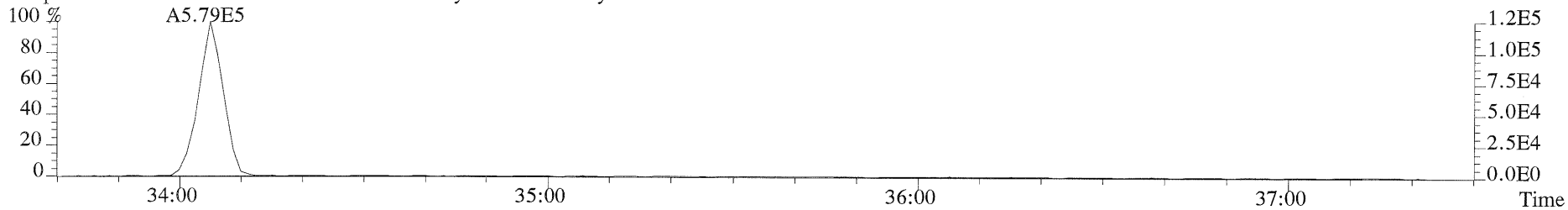
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



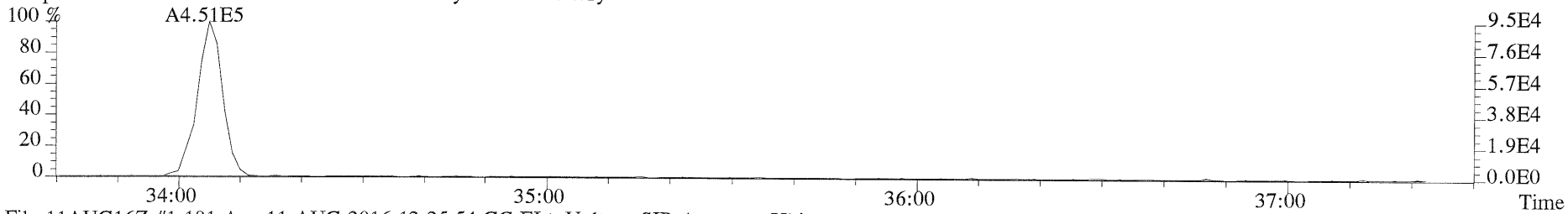
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



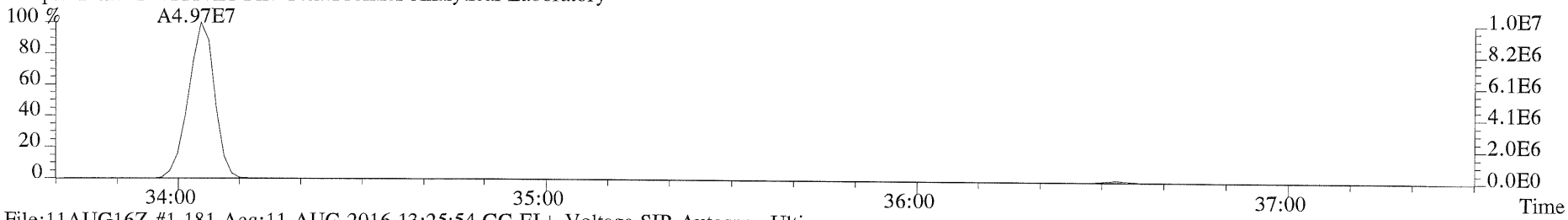
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



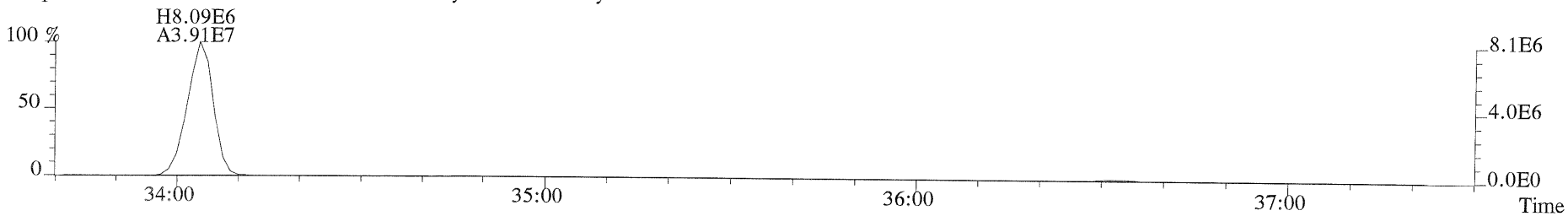
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



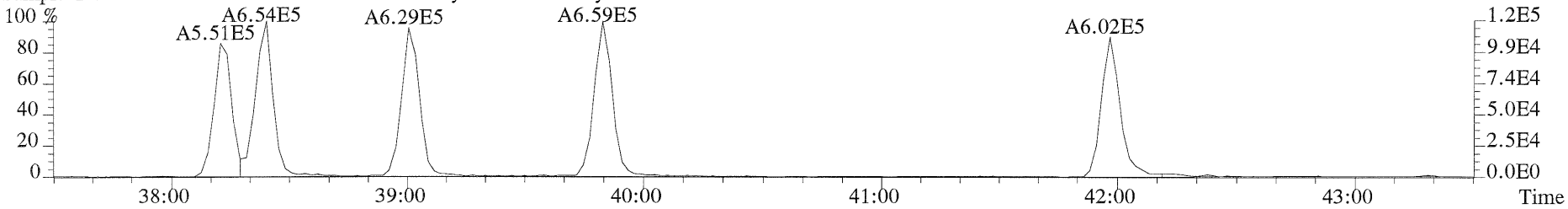
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



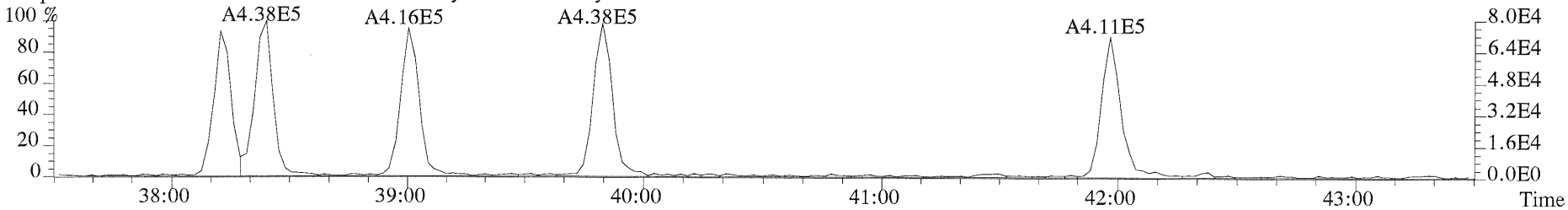
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



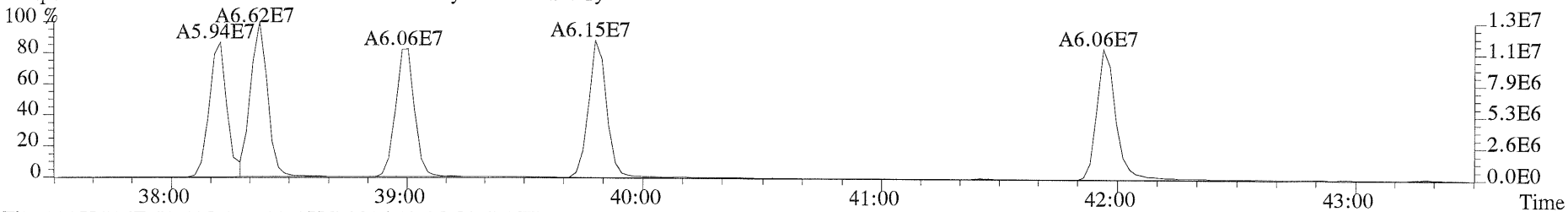
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



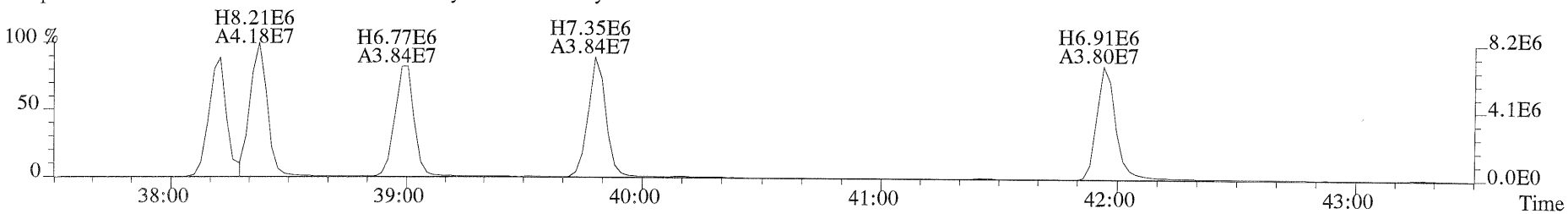
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



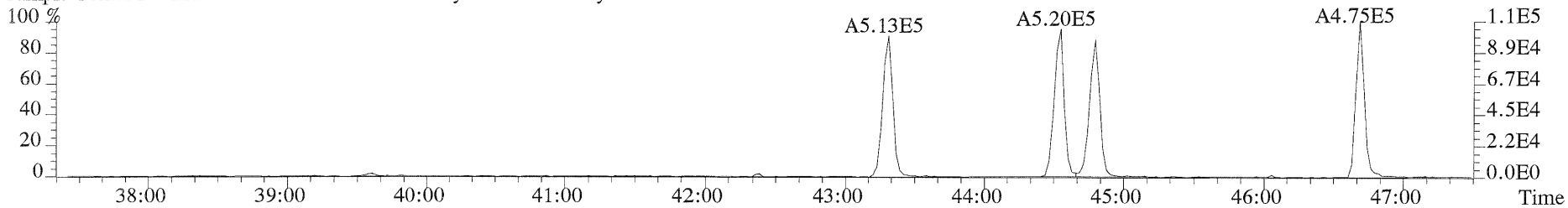
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



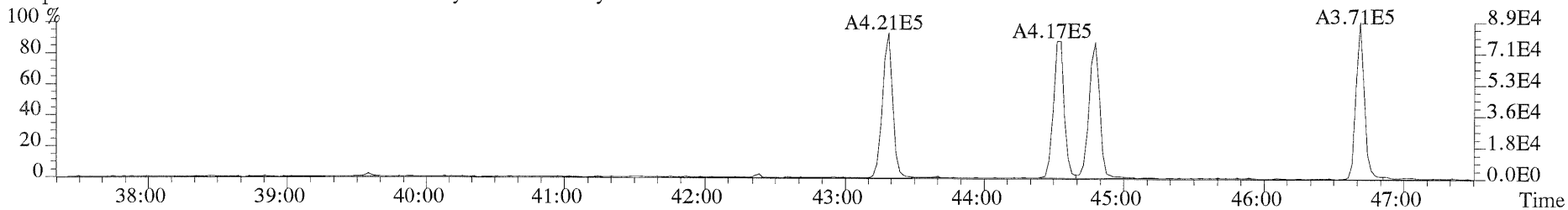
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



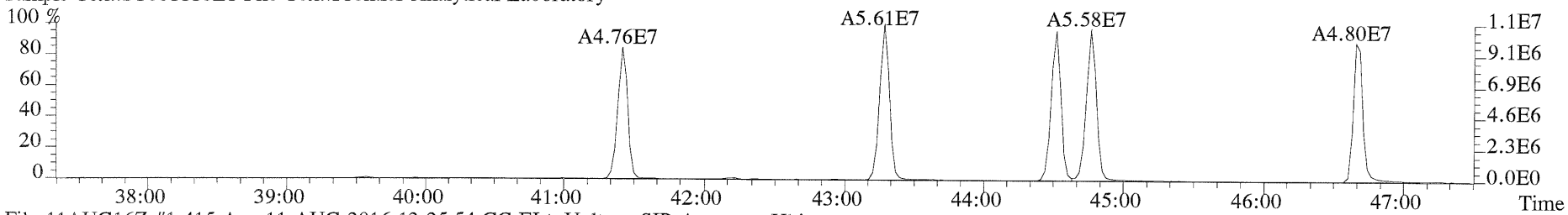
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



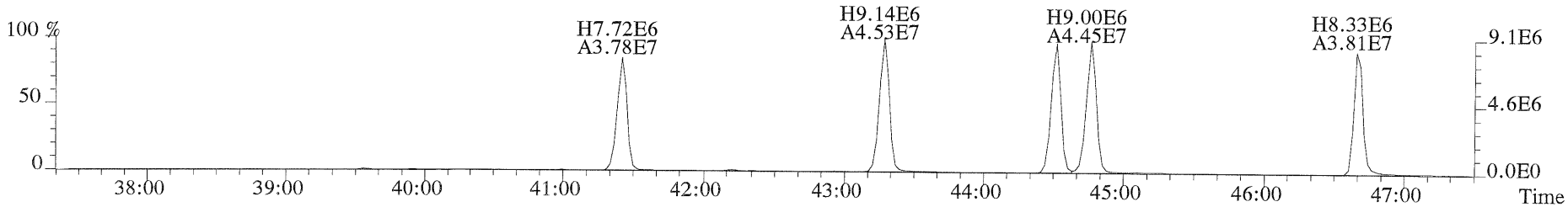
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



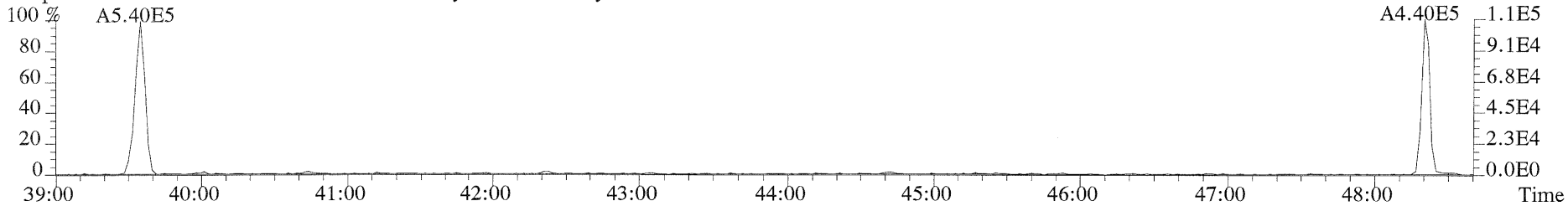
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



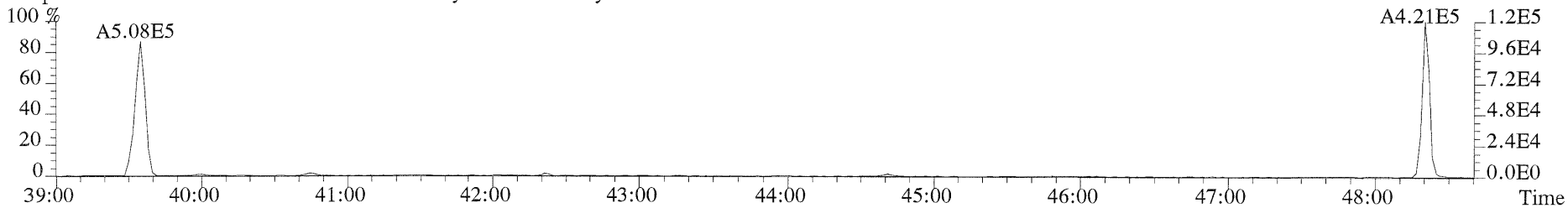
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



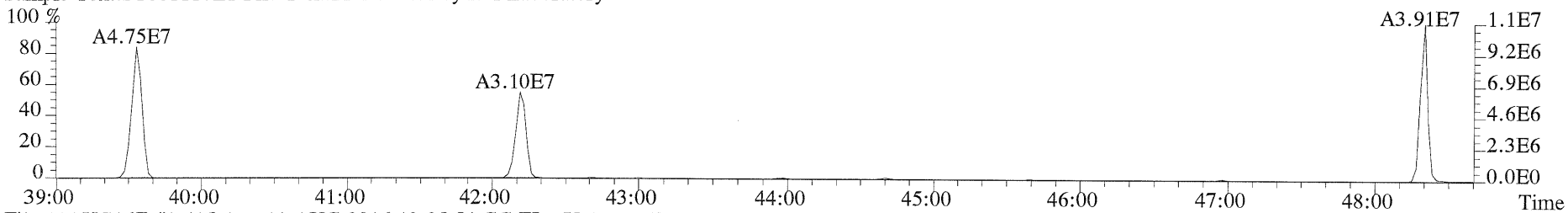
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



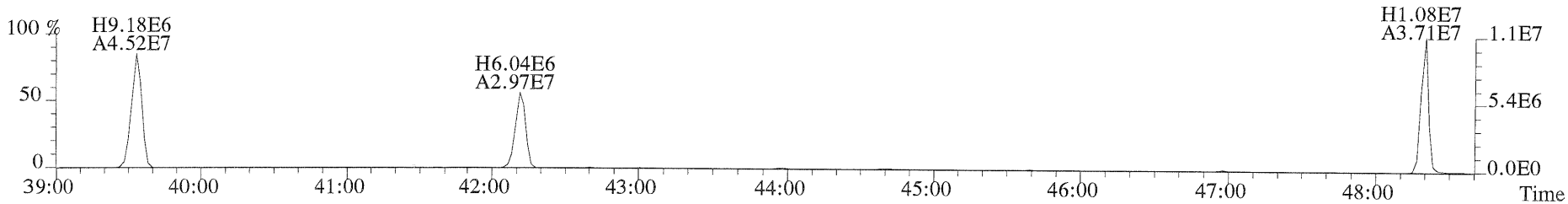
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



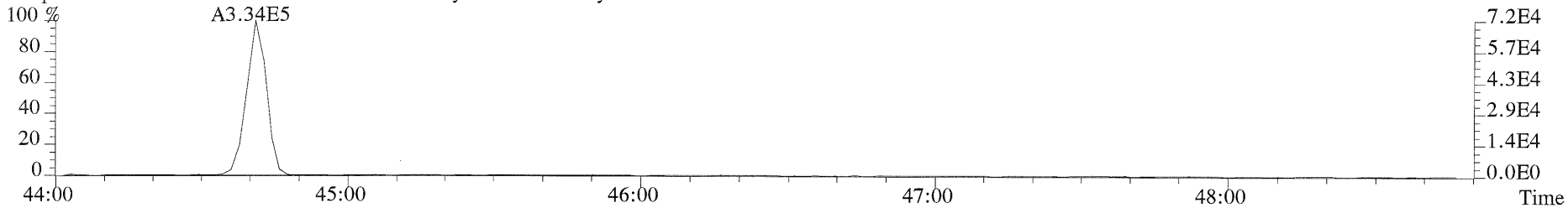
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



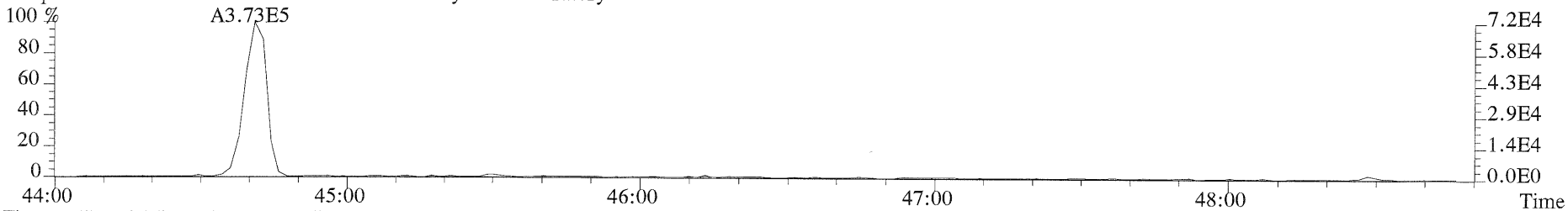
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



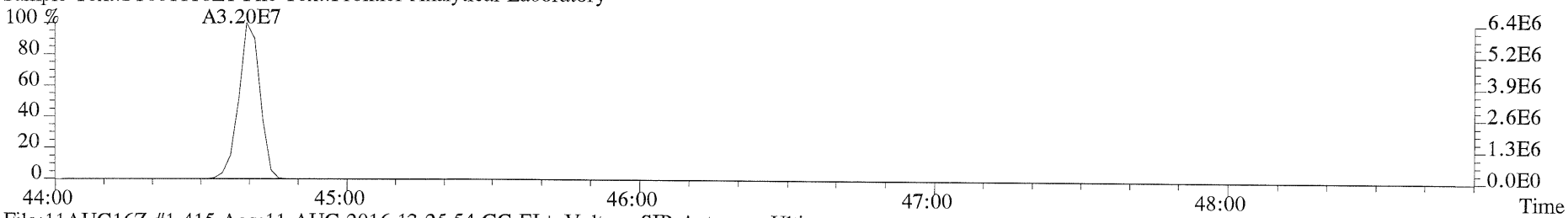
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



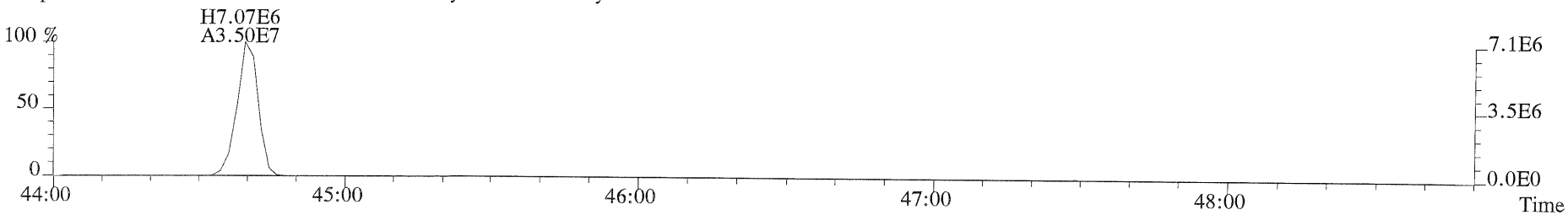
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



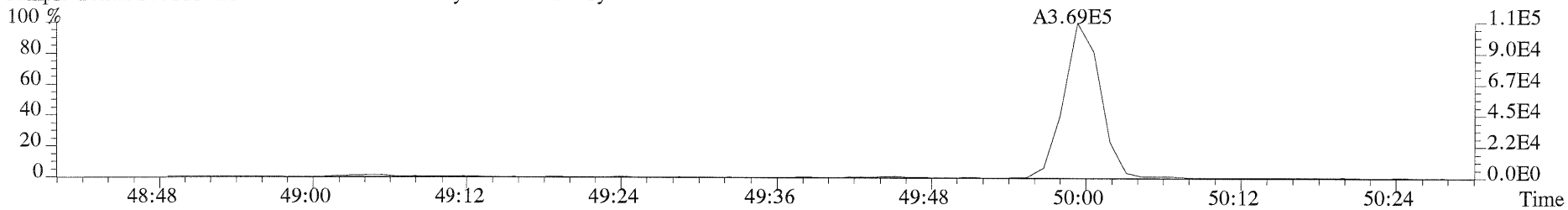
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



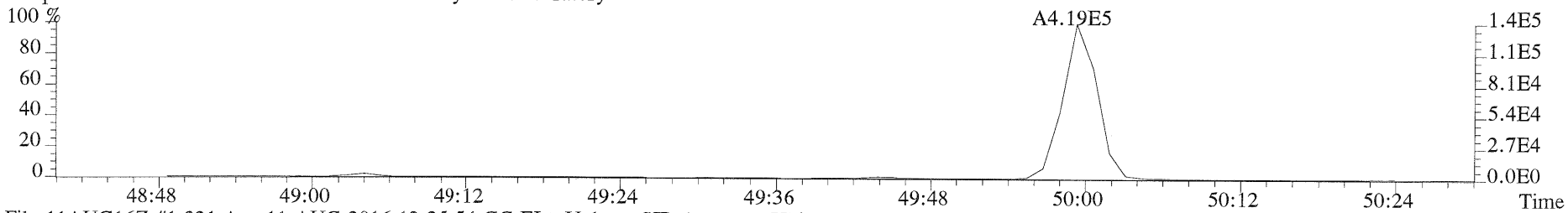
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



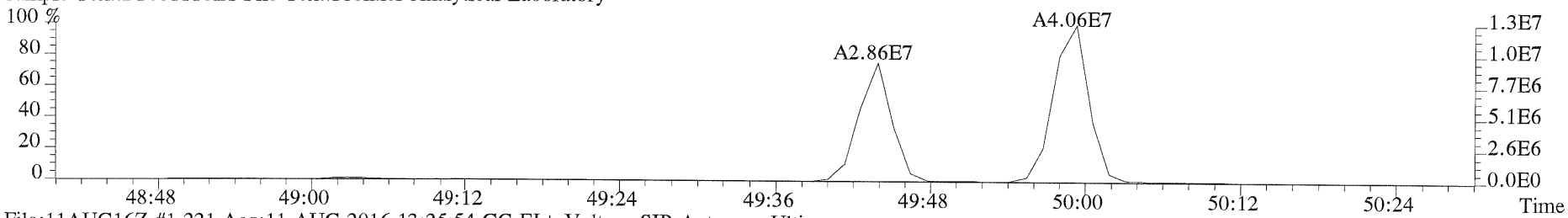
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



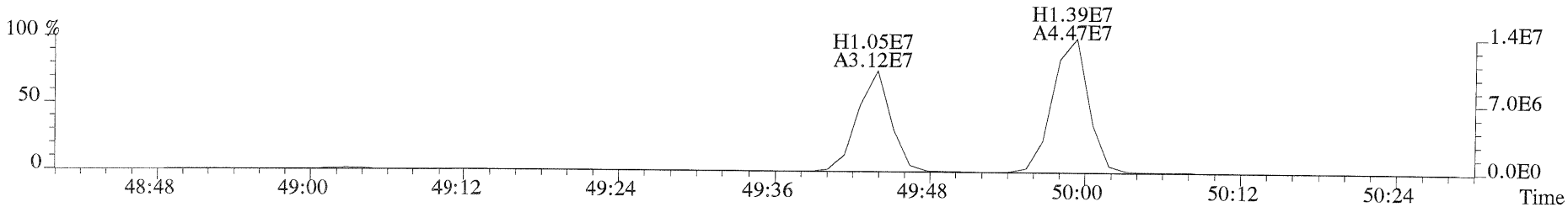
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



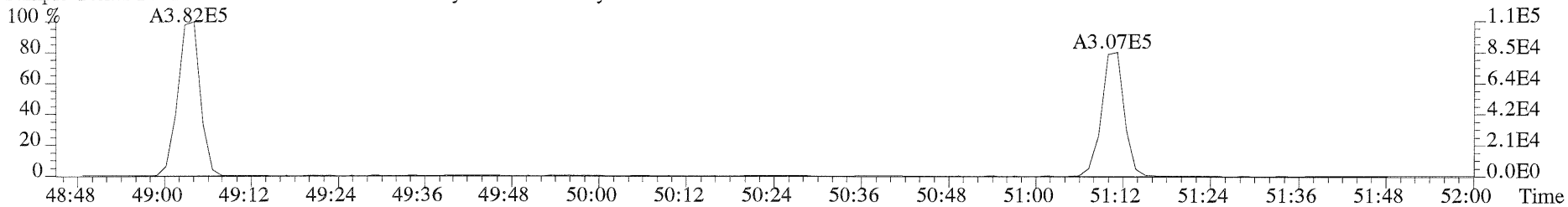
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



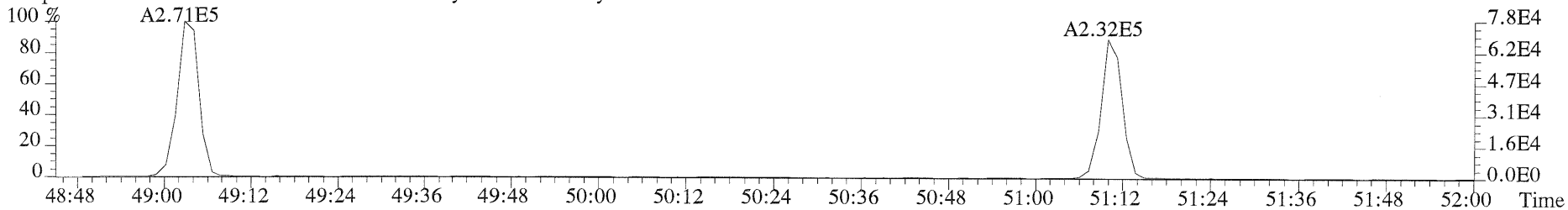
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



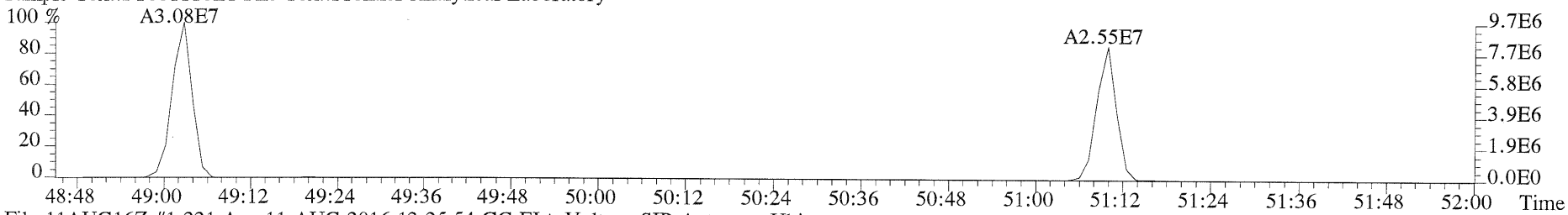
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



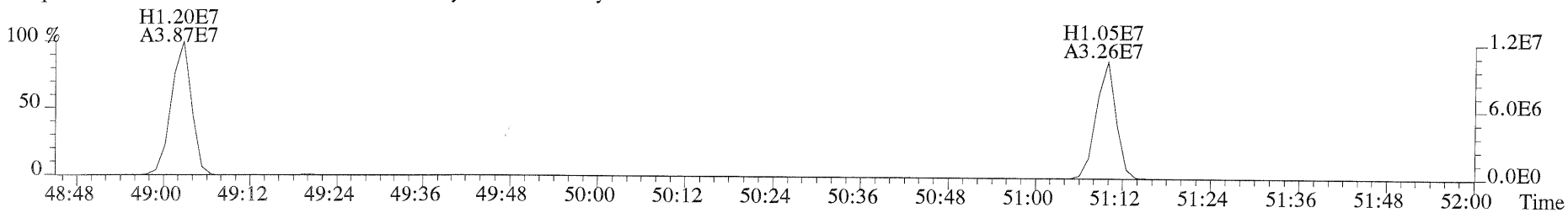
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



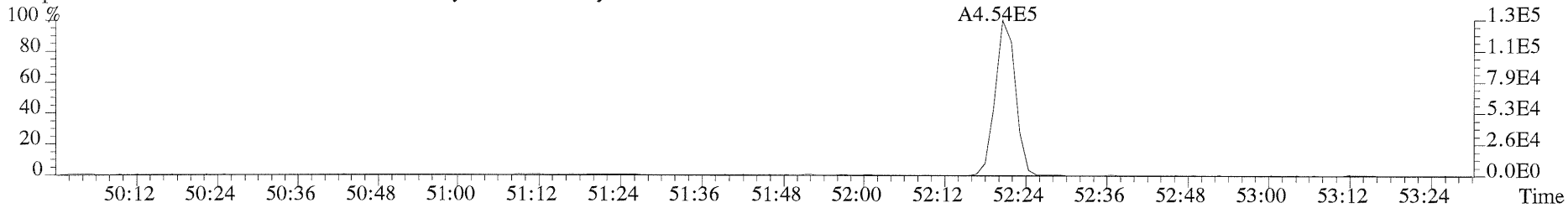
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



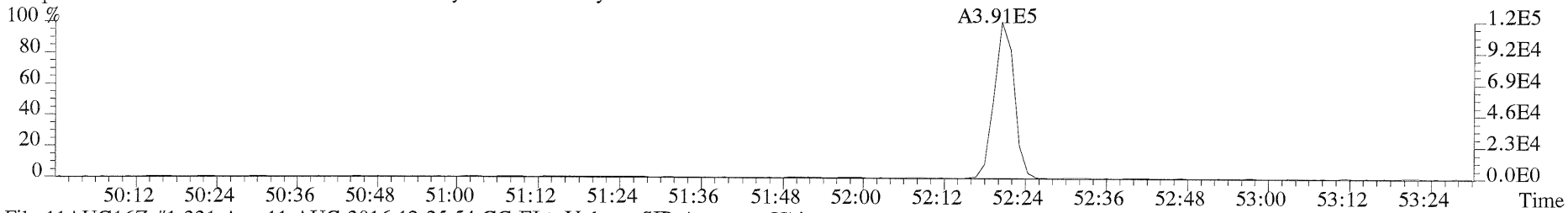
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



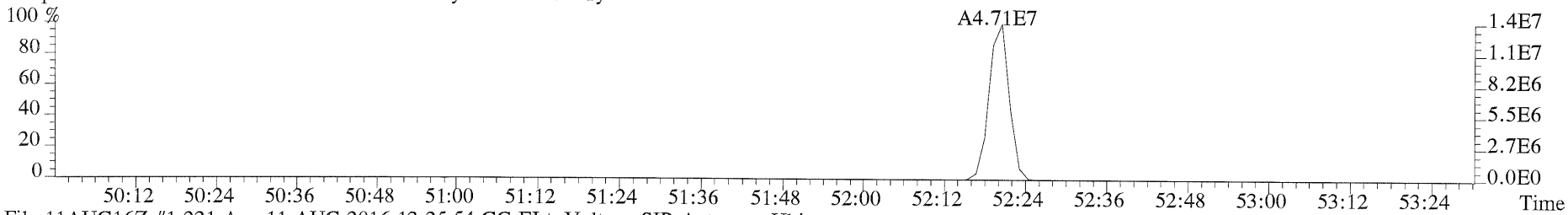
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



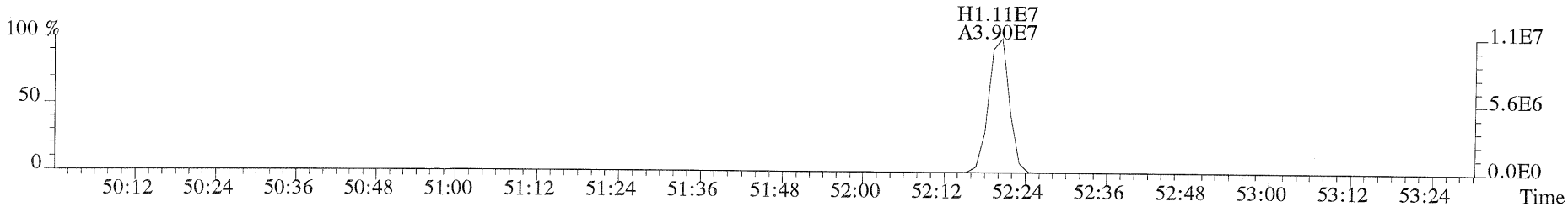
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



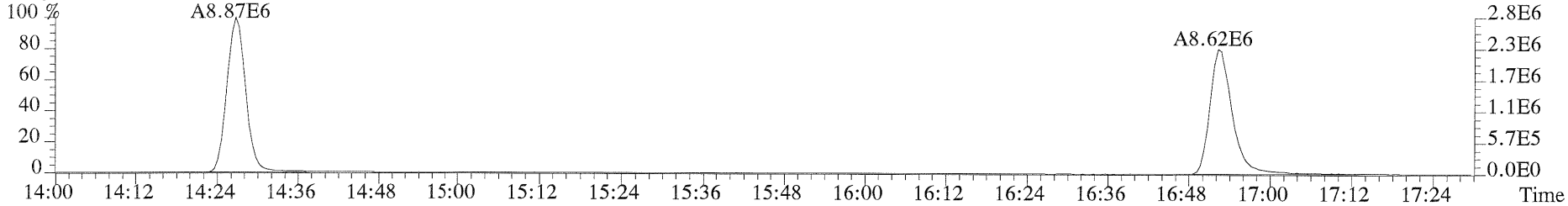
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



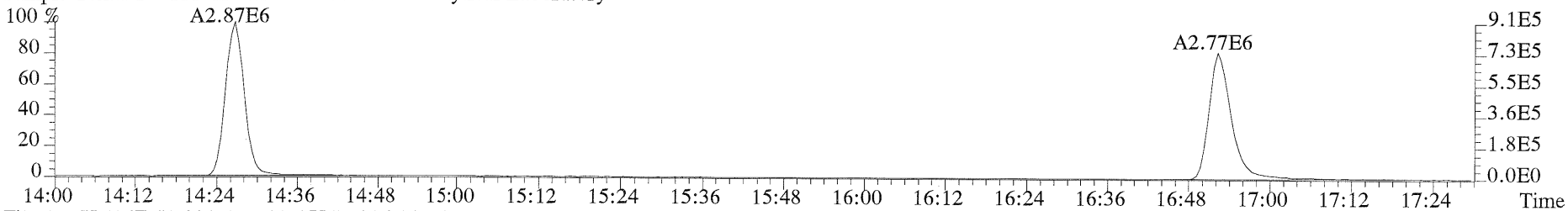
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



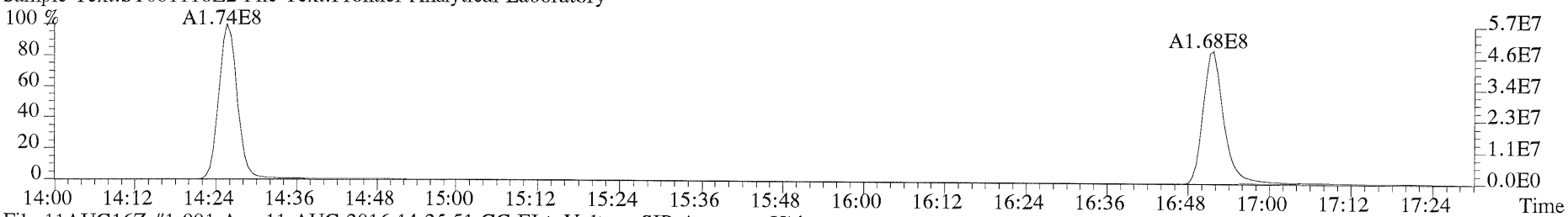
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



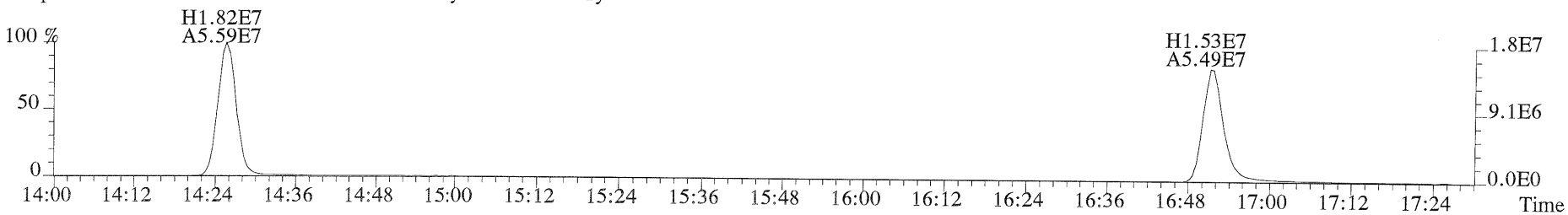
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



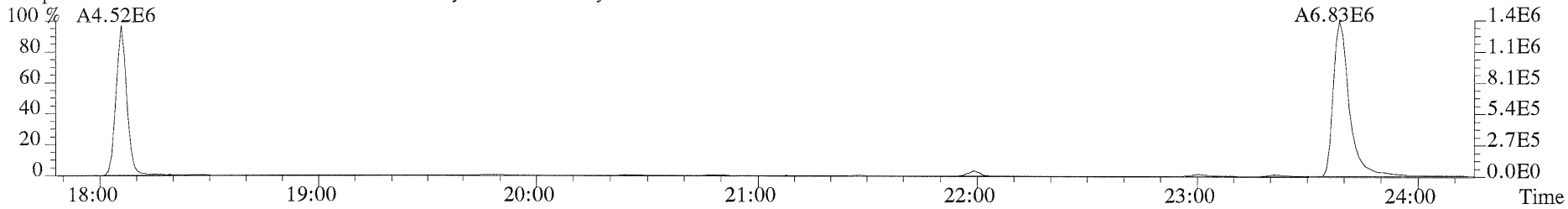
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



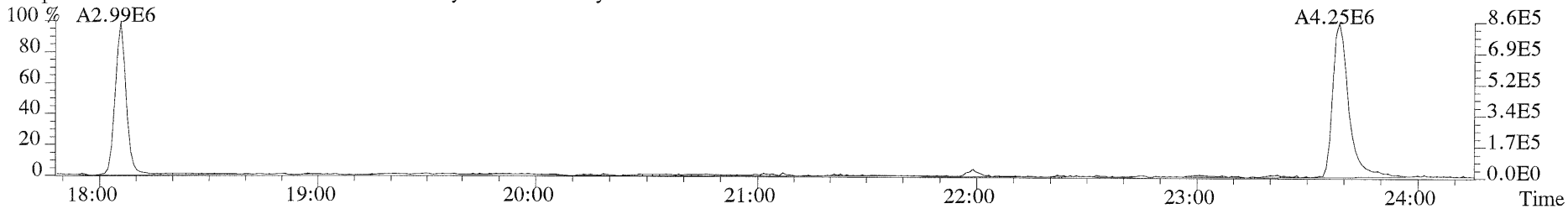
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



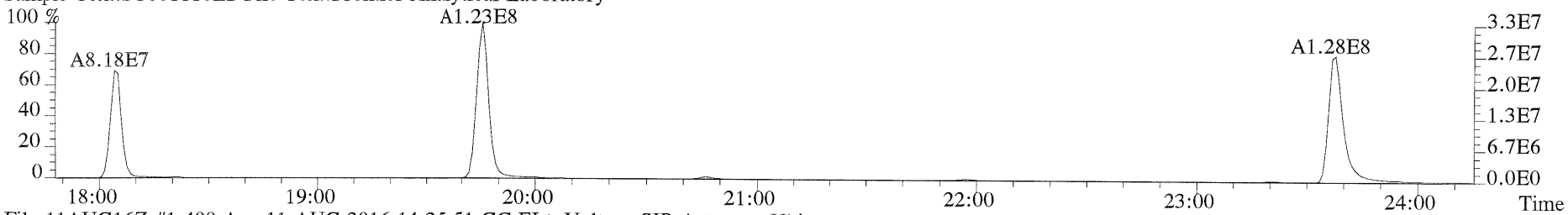
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



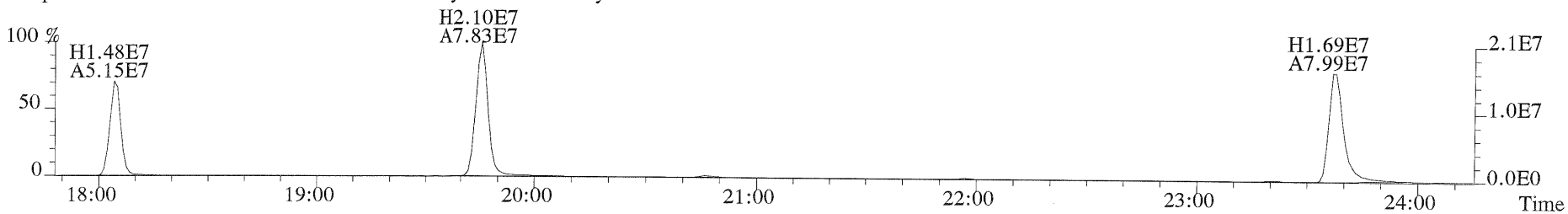
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



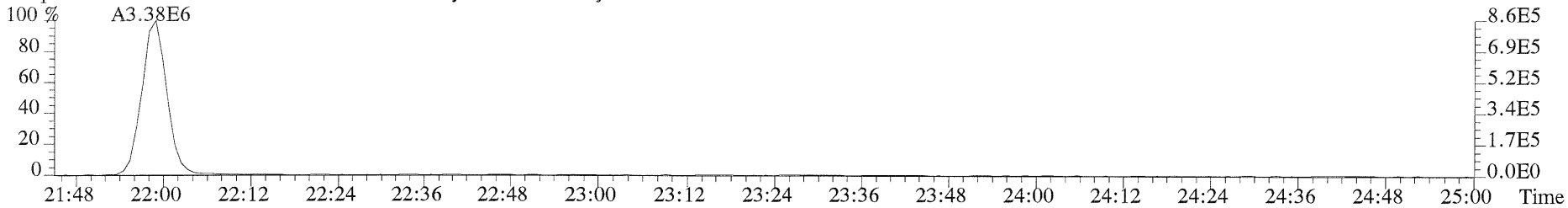
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



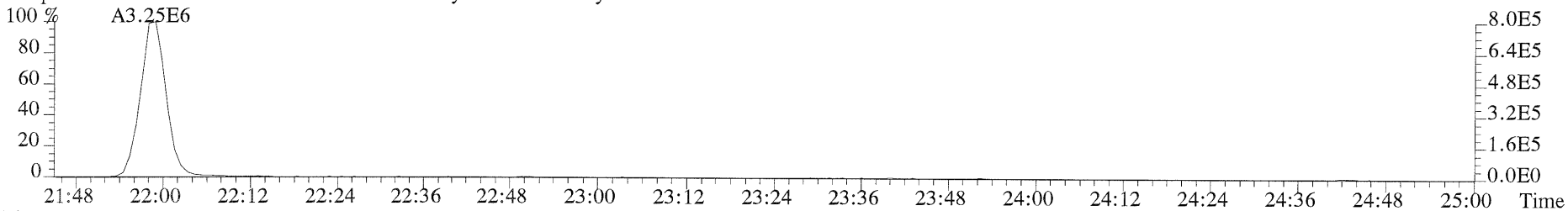
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



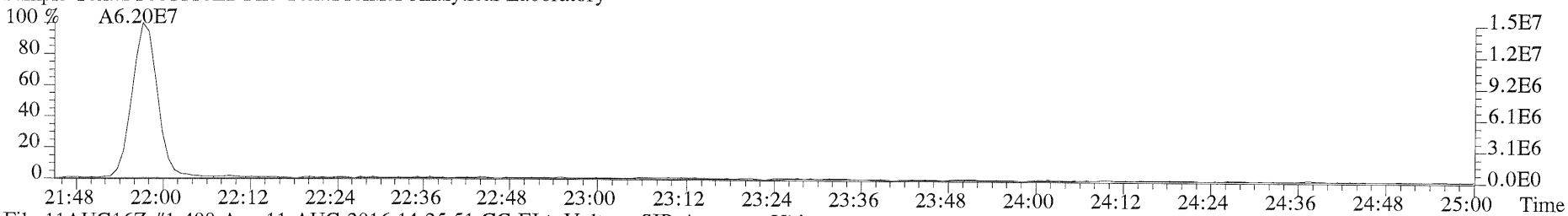
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



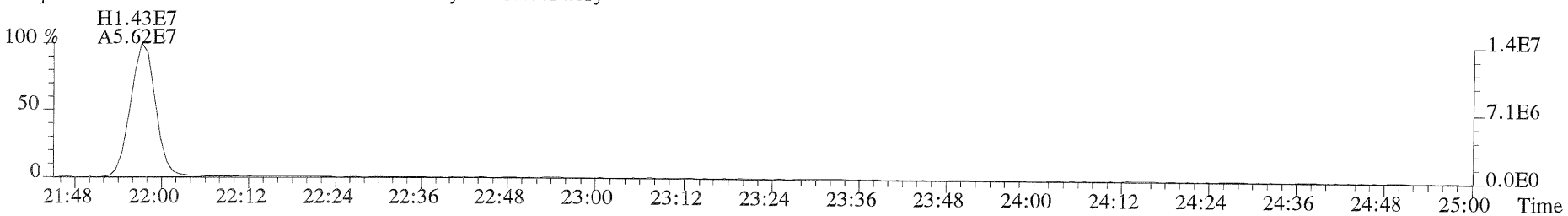
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



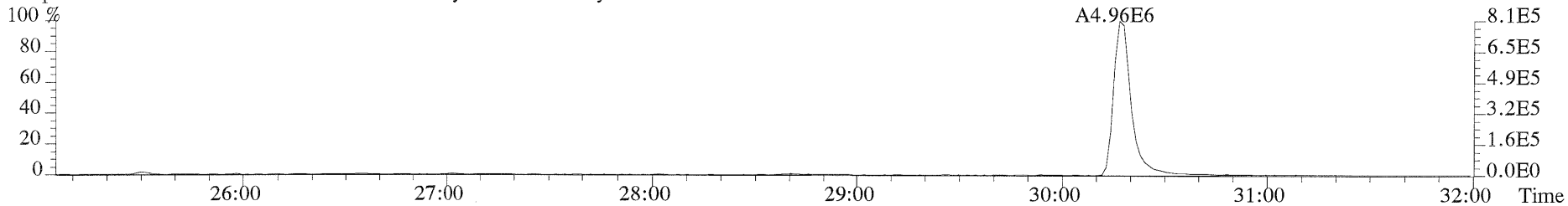
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



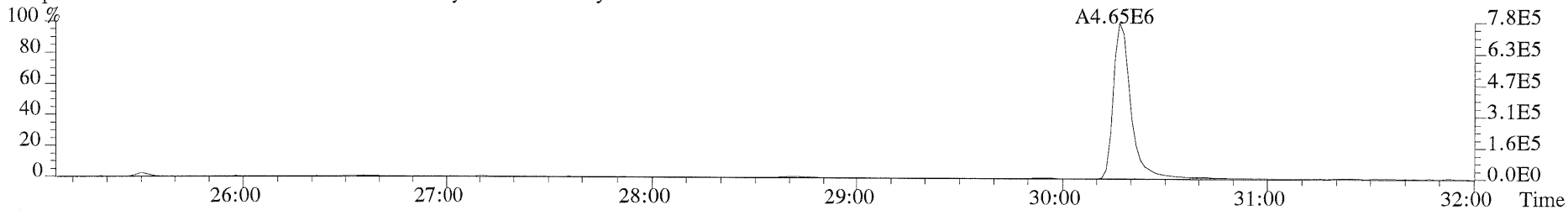
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



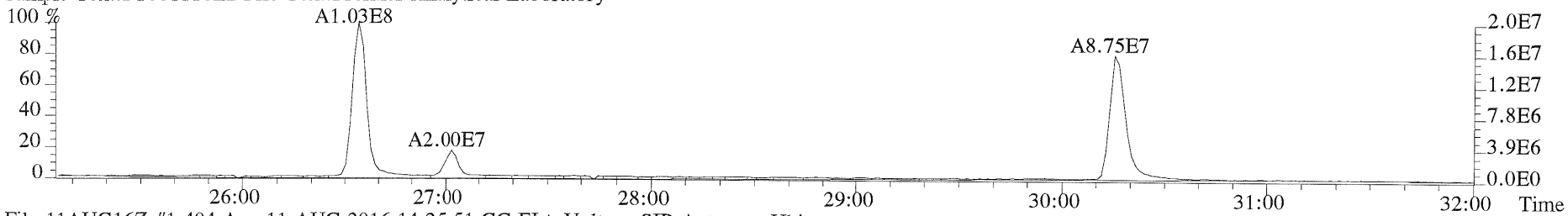
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



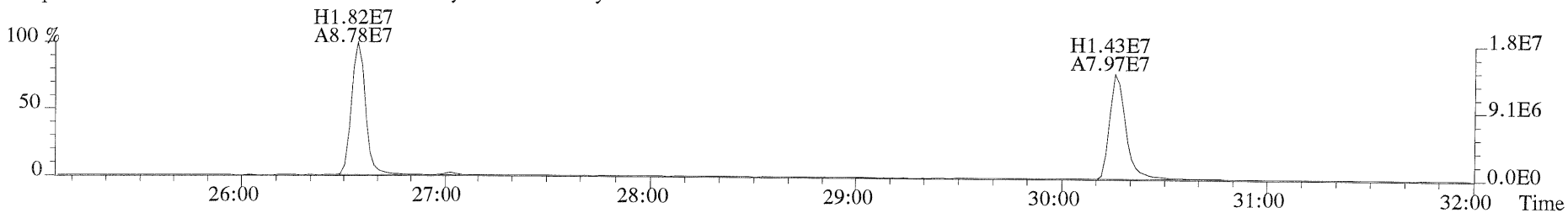
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



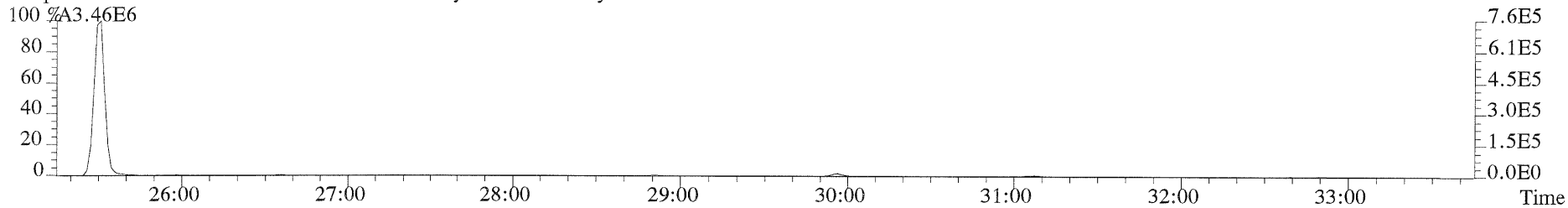
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



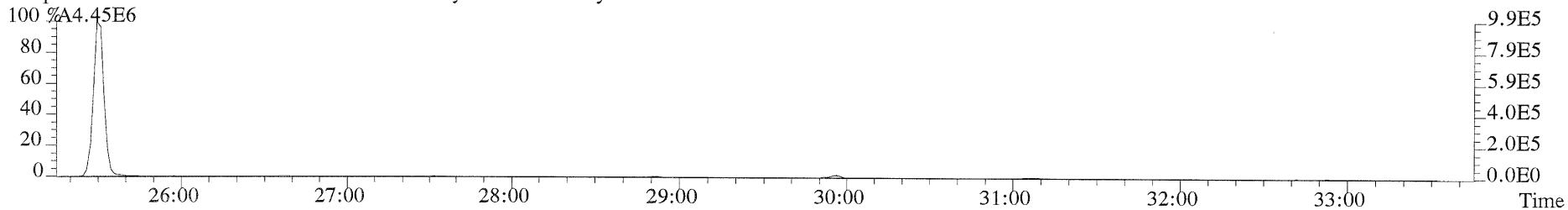
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



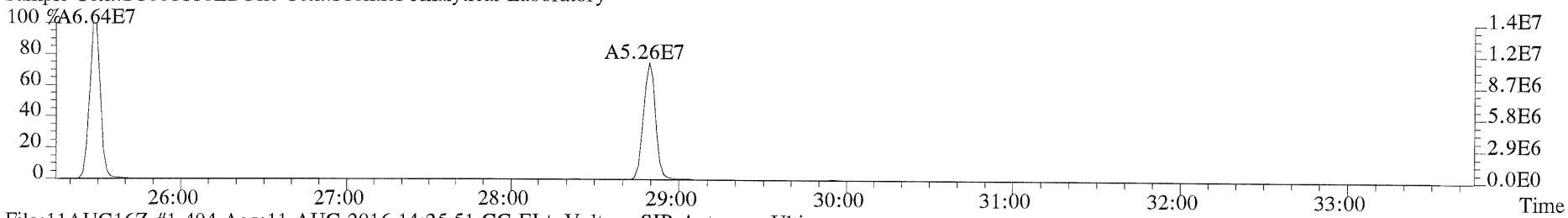
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



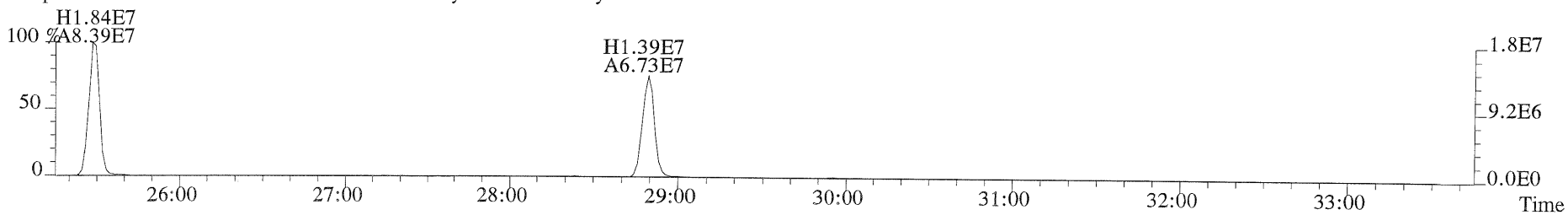
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



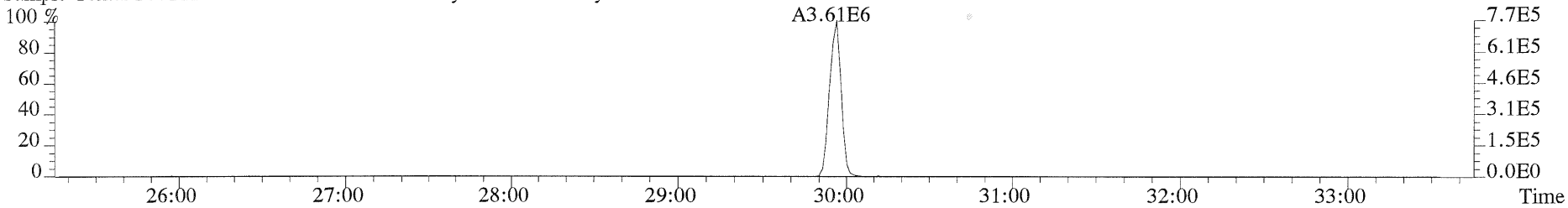
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



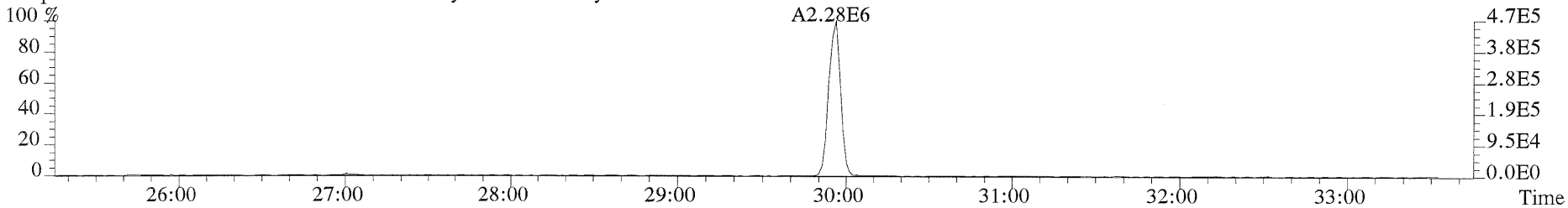
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



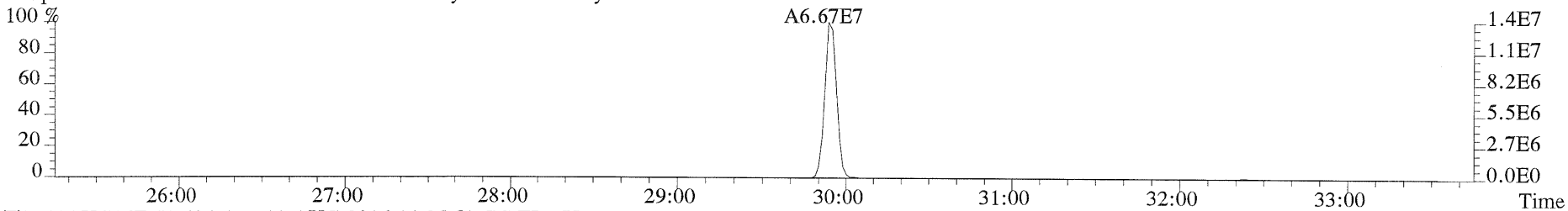
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



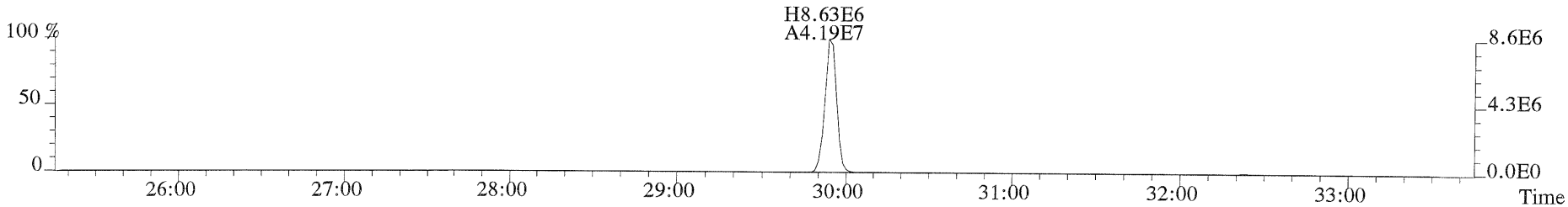
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



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



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



File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
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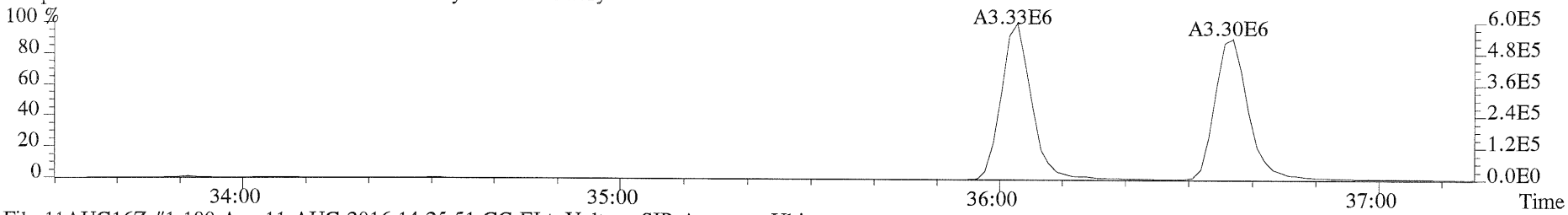
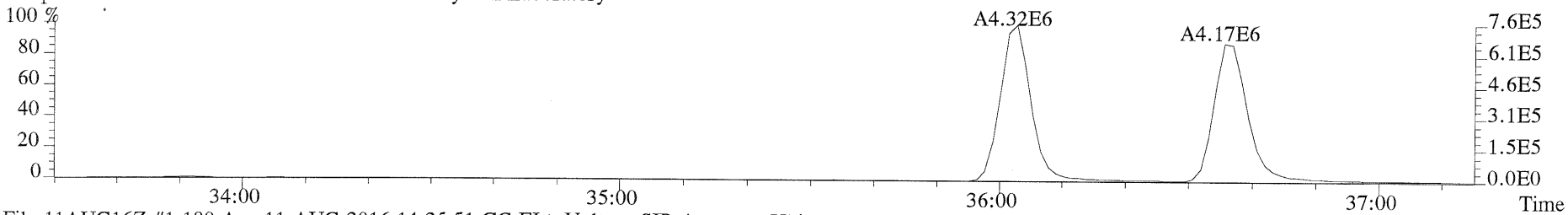
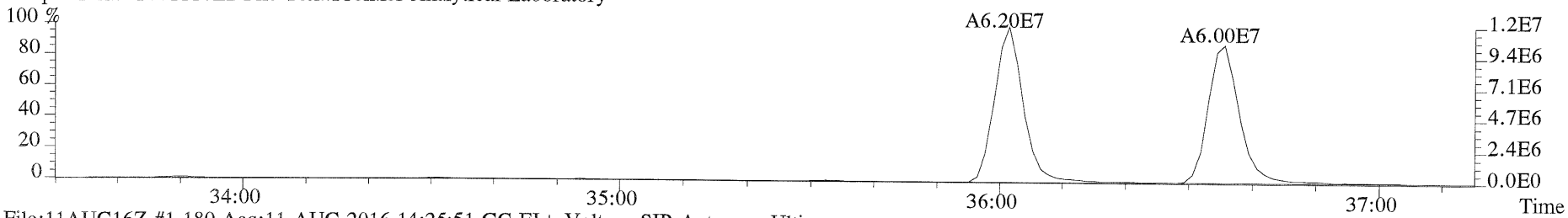
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



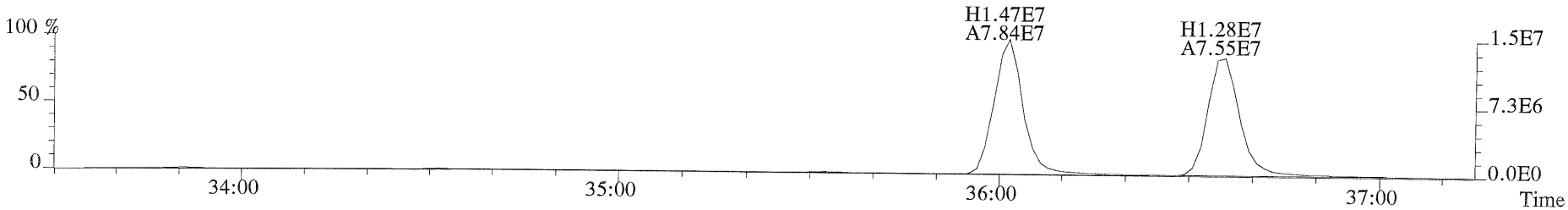
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



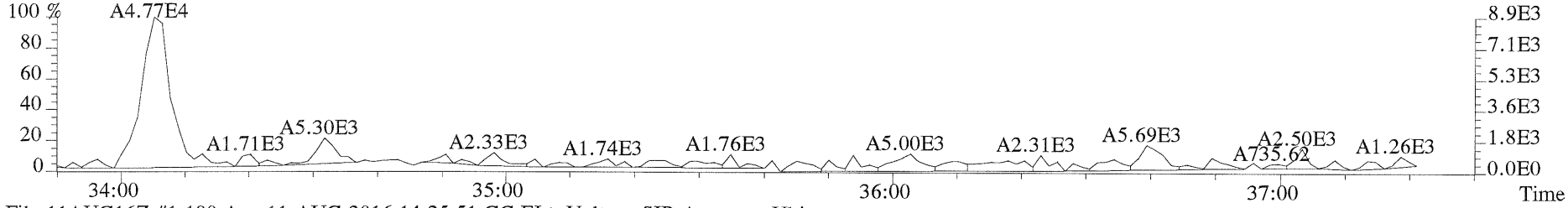
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



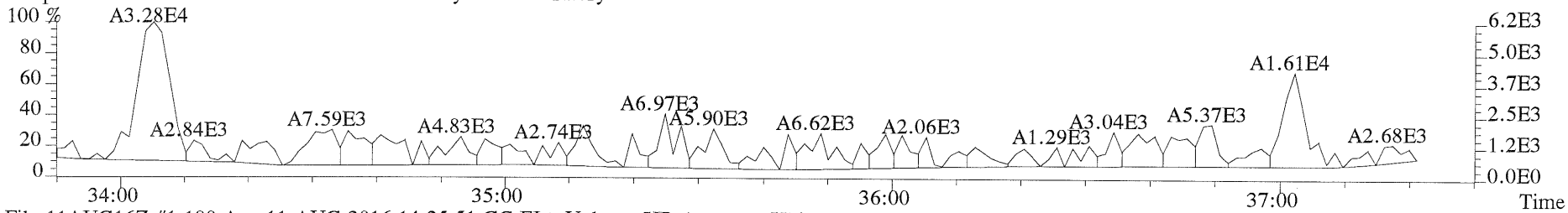
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



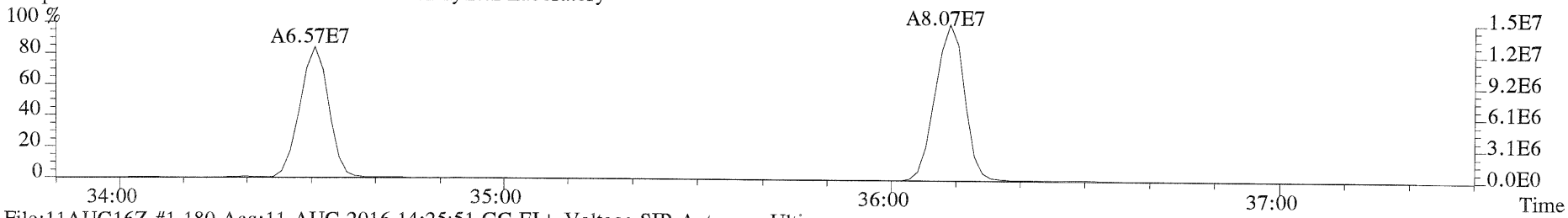
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



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



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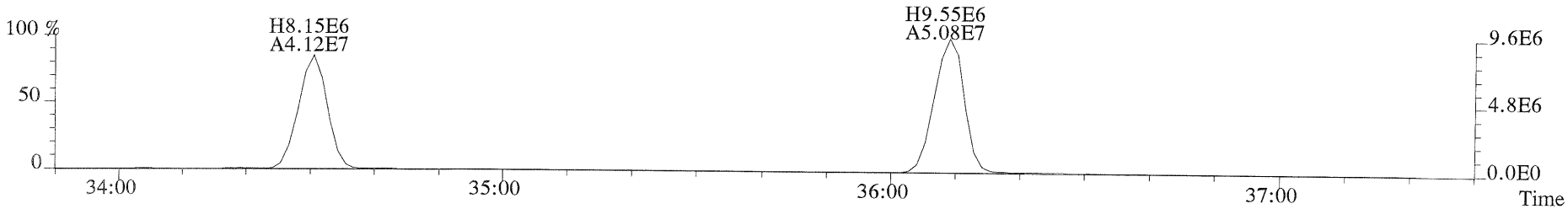
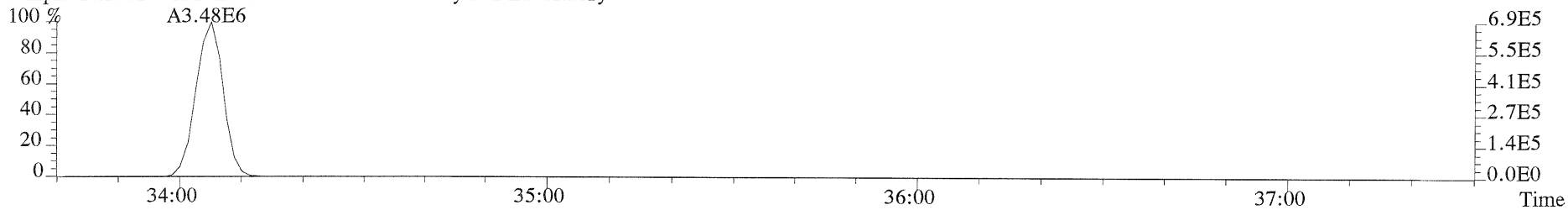
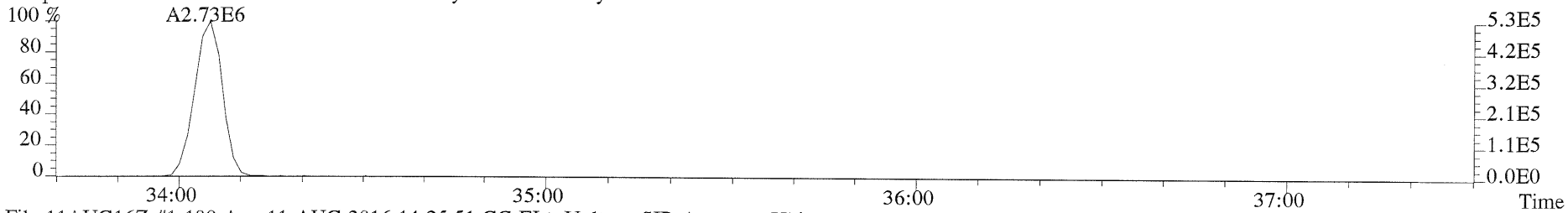
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



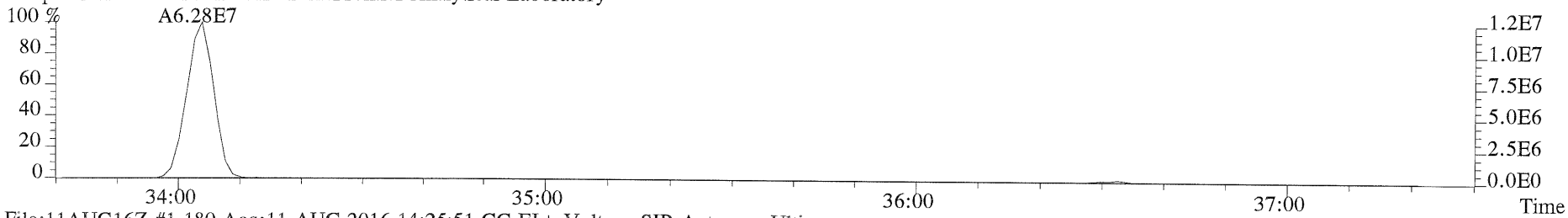
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



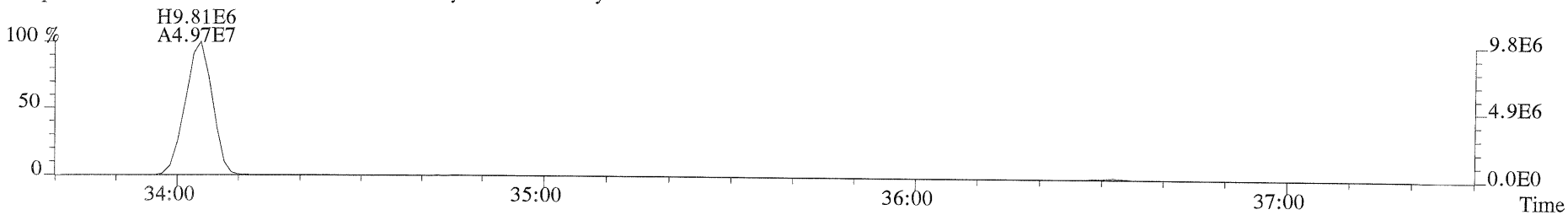
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



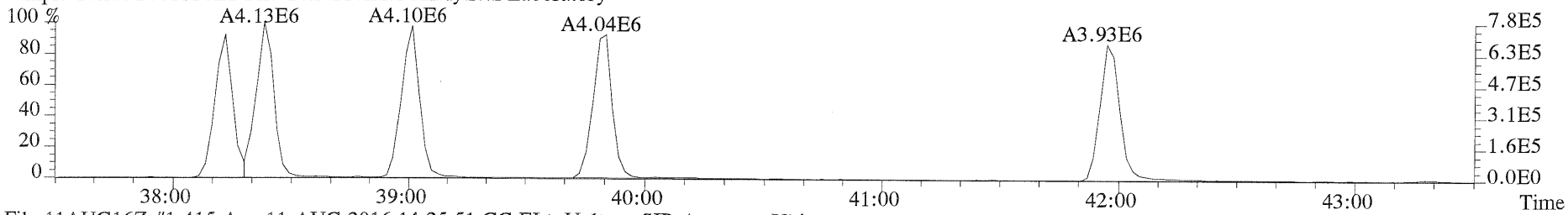
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



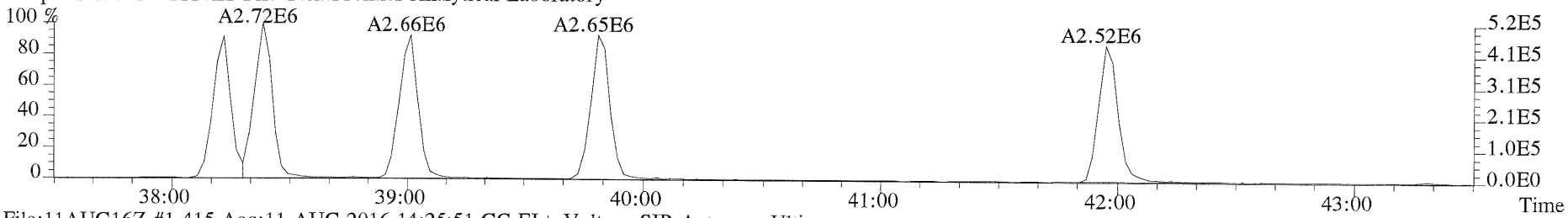
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



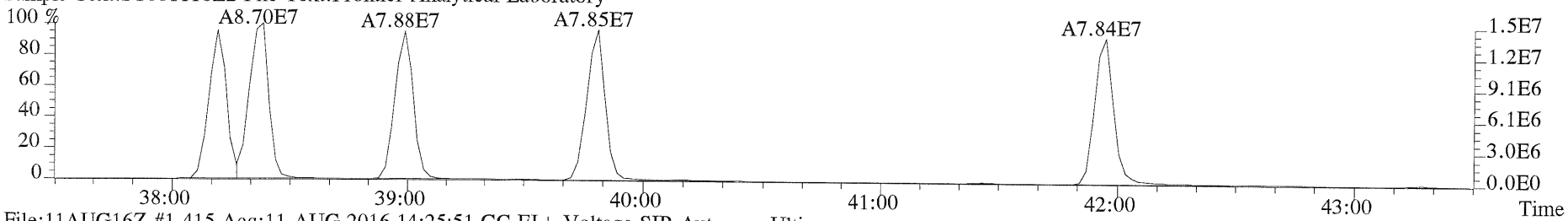
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



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



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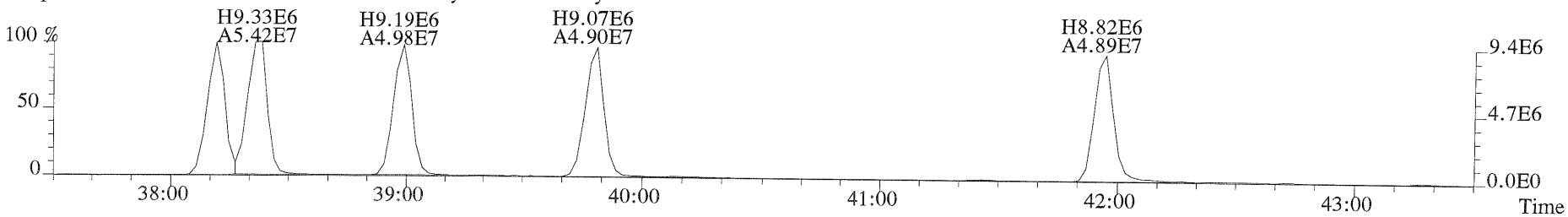
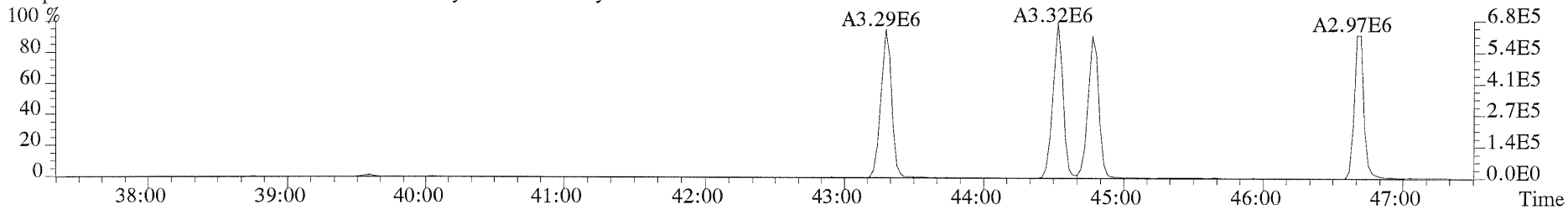
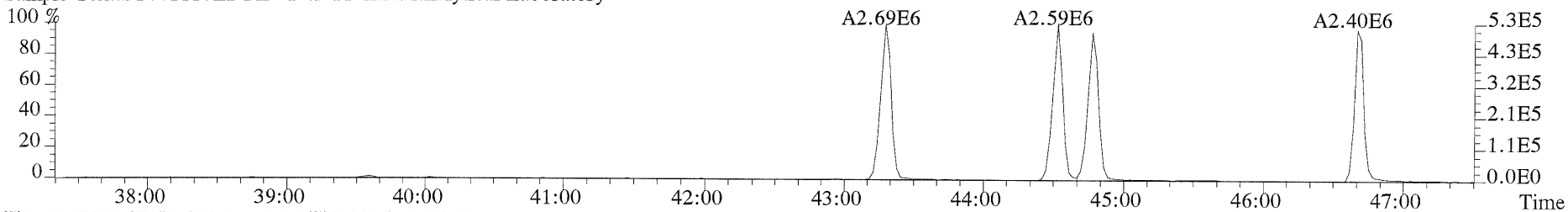
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



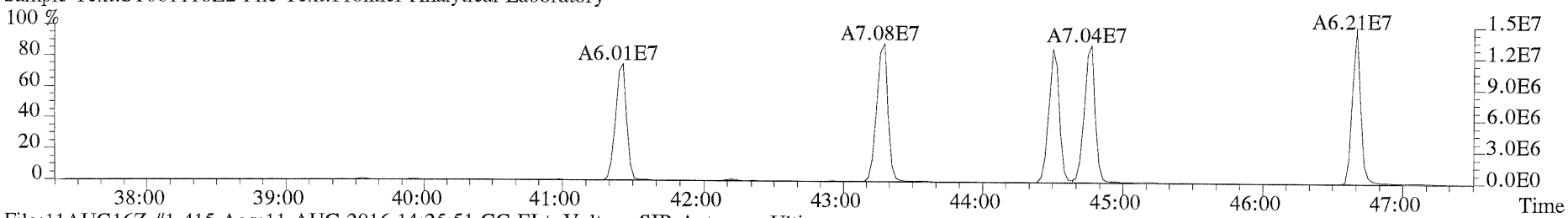
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



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



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



File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
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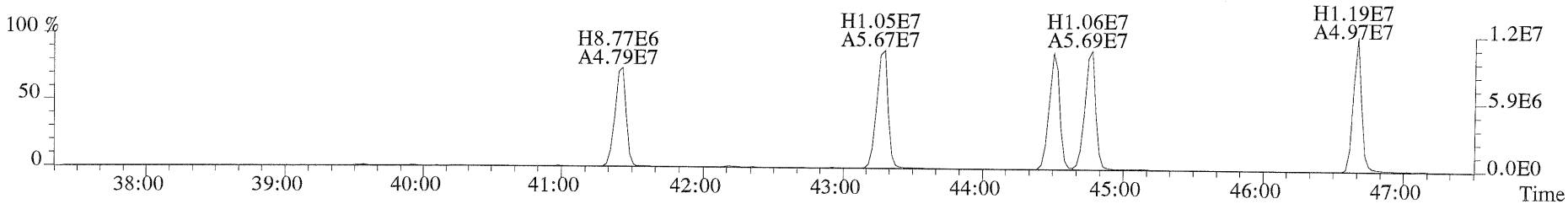
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



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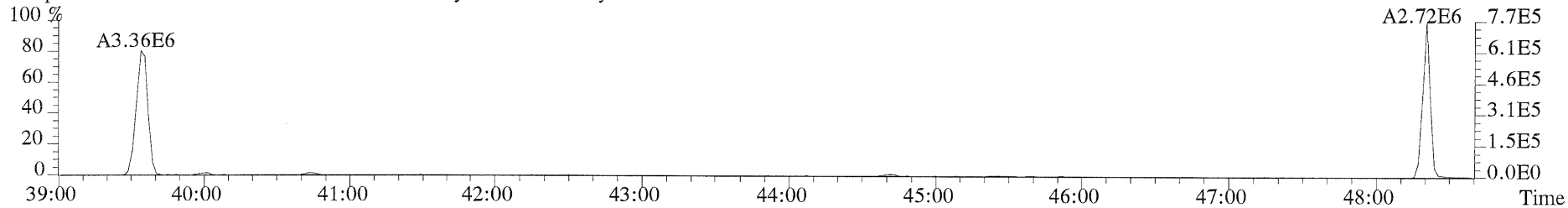
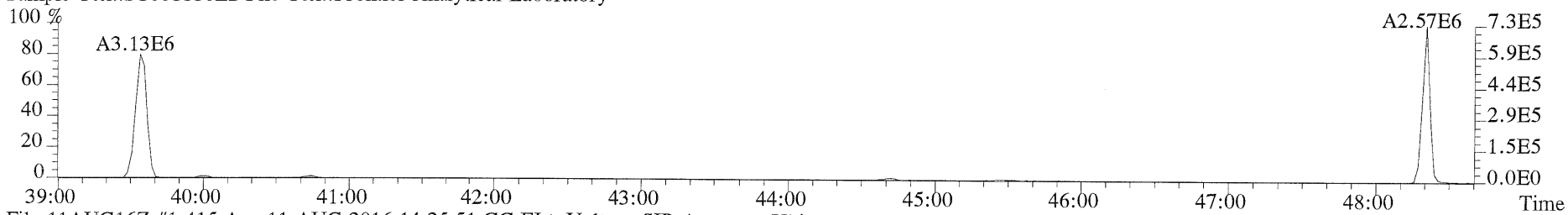
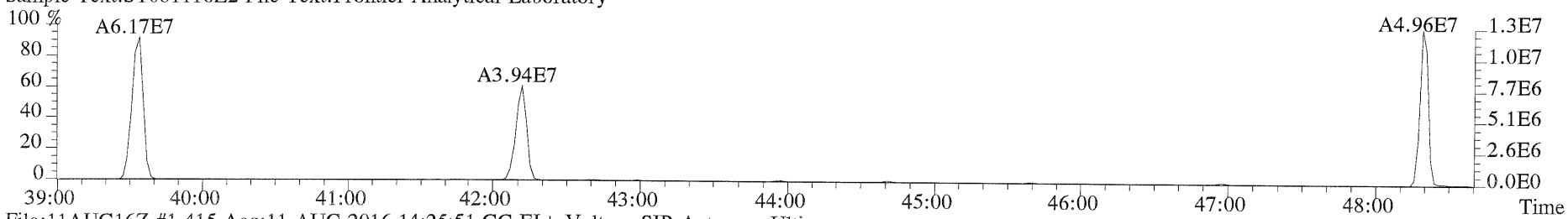
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



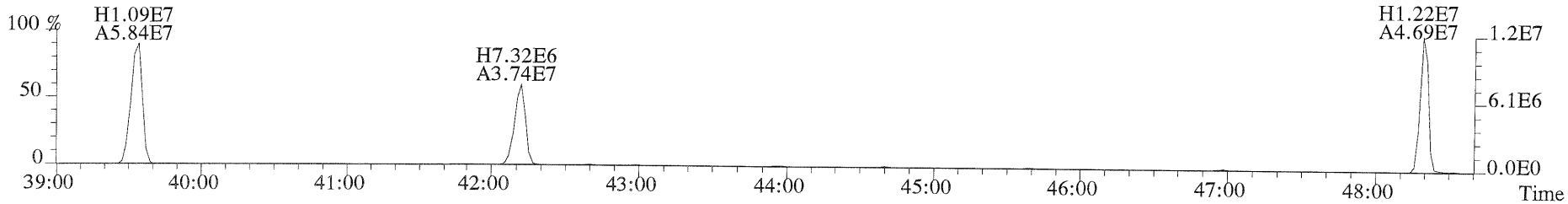
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



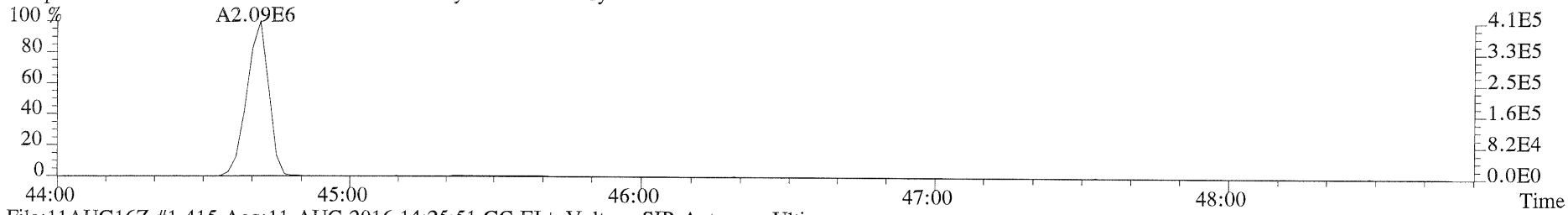
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



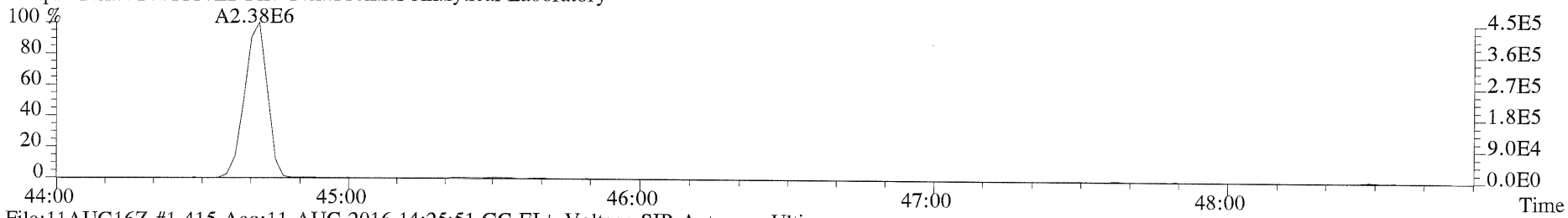
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



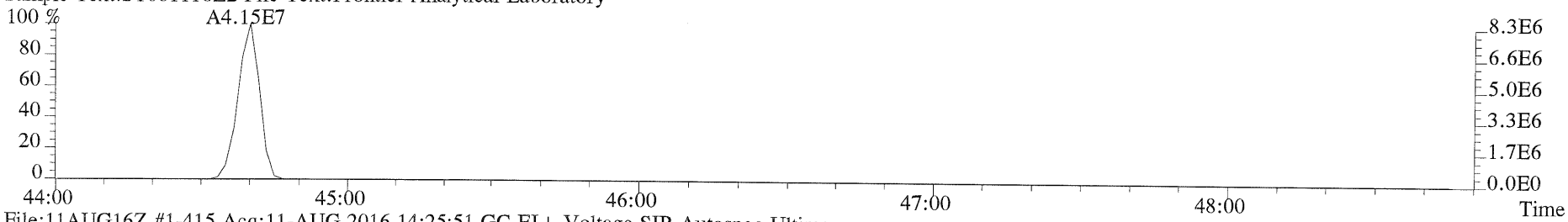
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



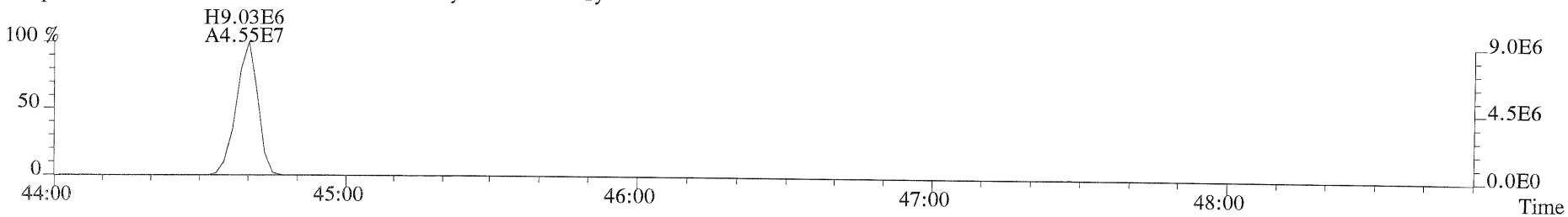
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



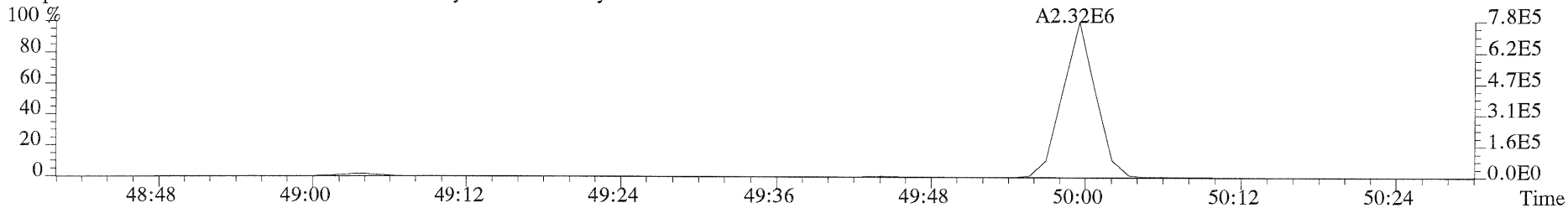
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



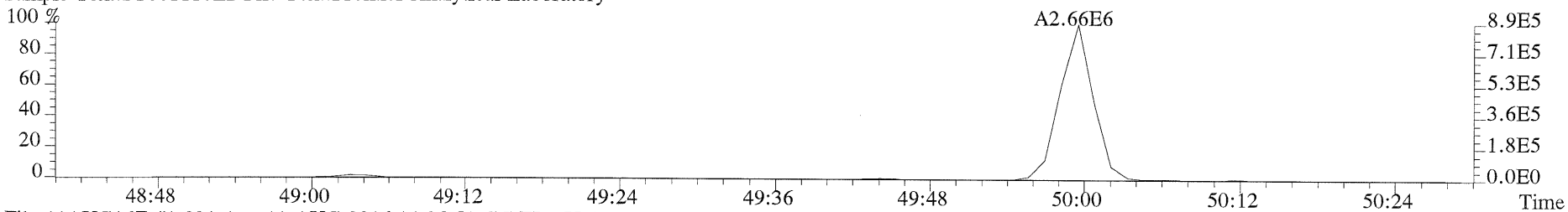
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



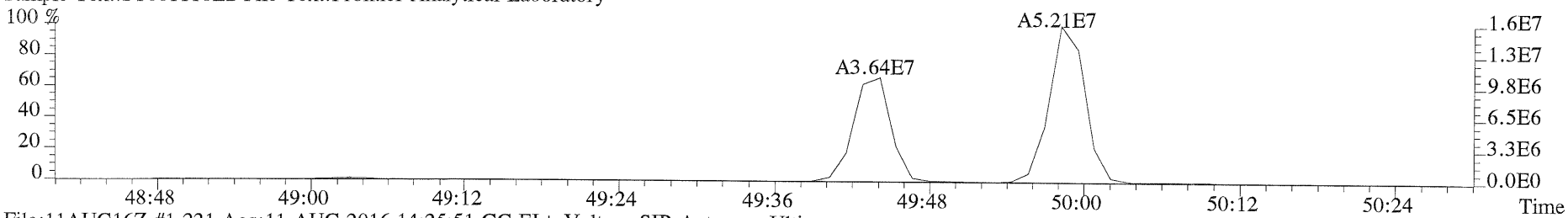
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



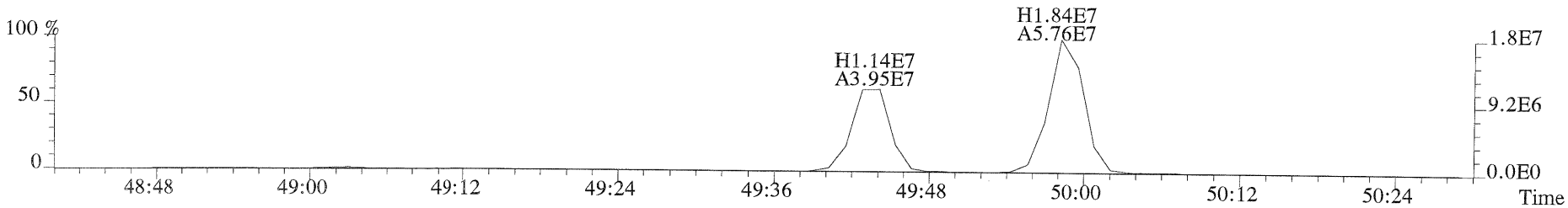
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



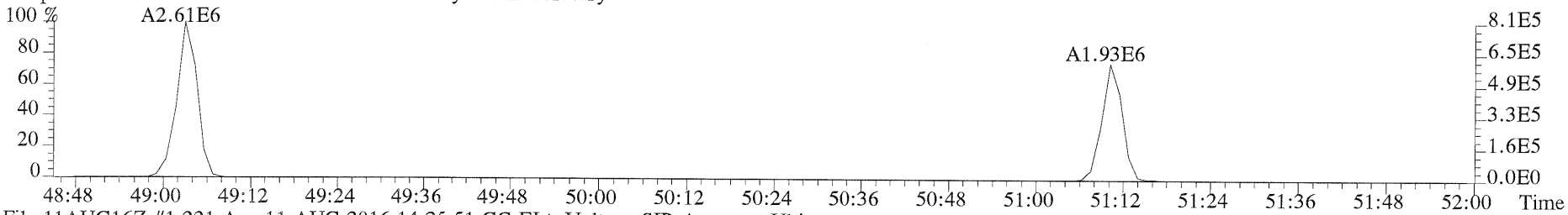
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



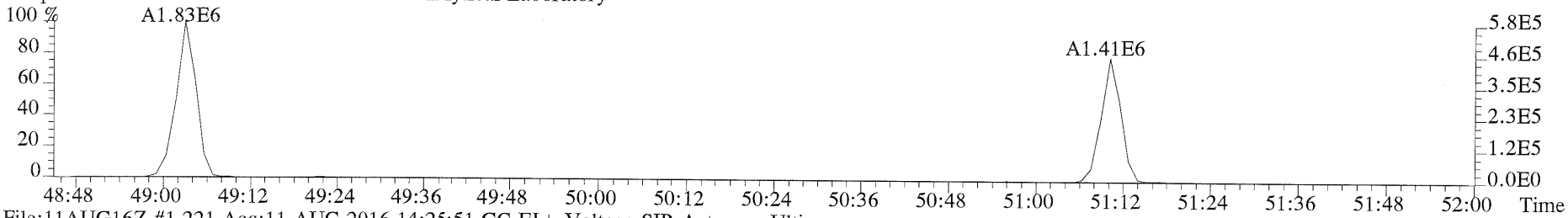
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



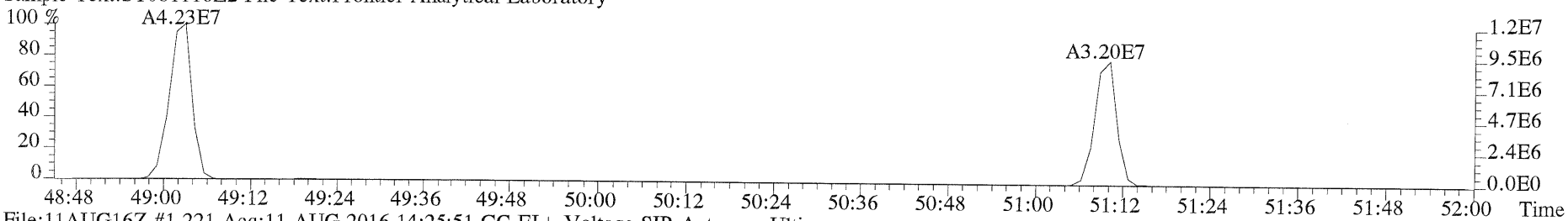
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



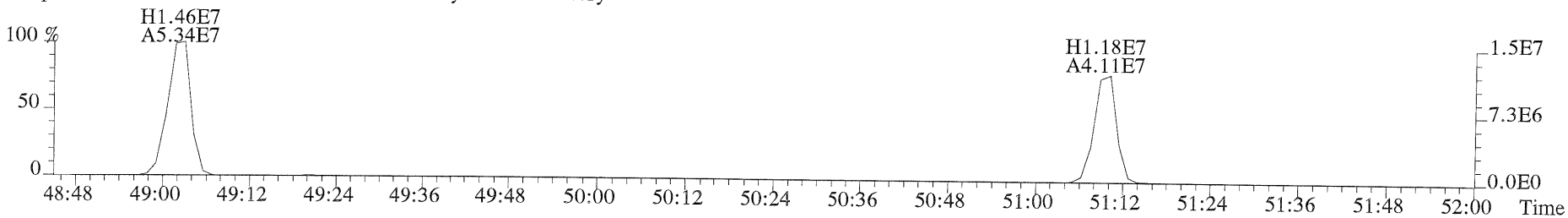
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



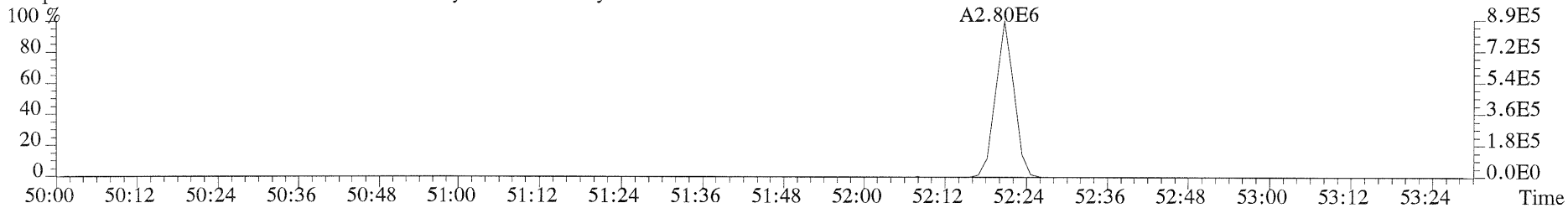
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



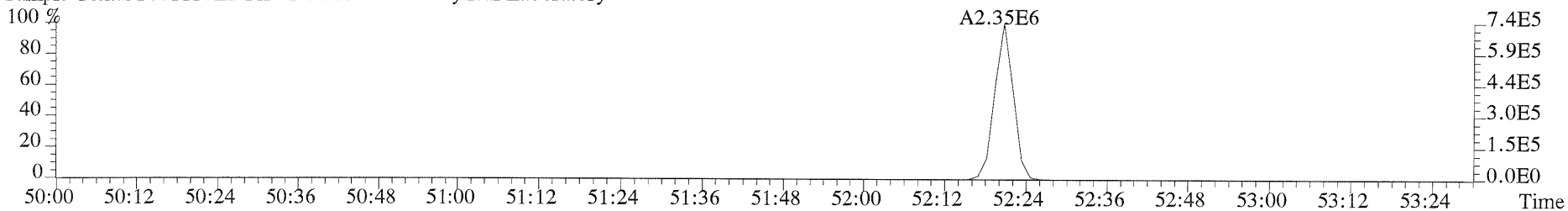
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



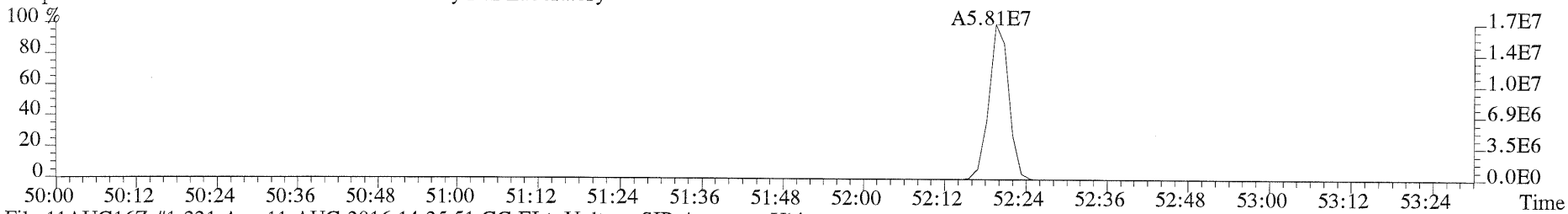
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



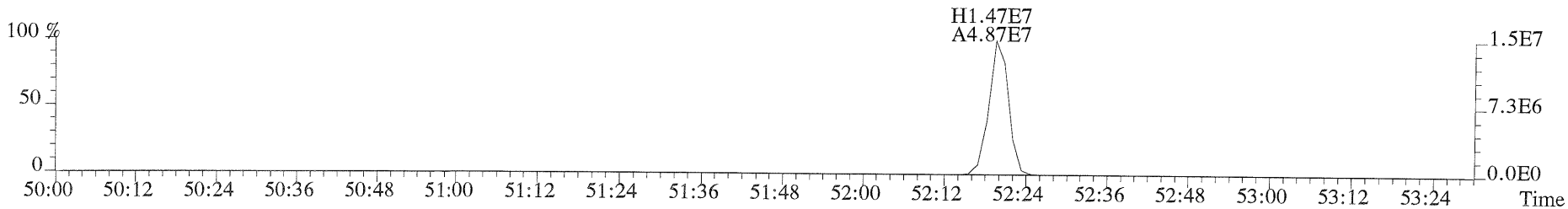
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



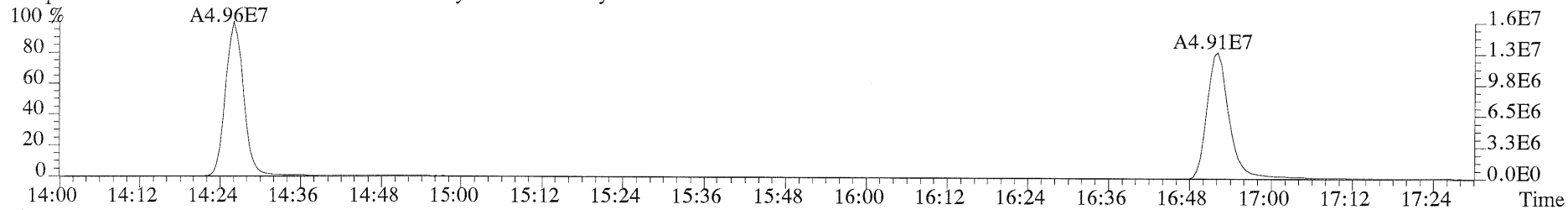
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



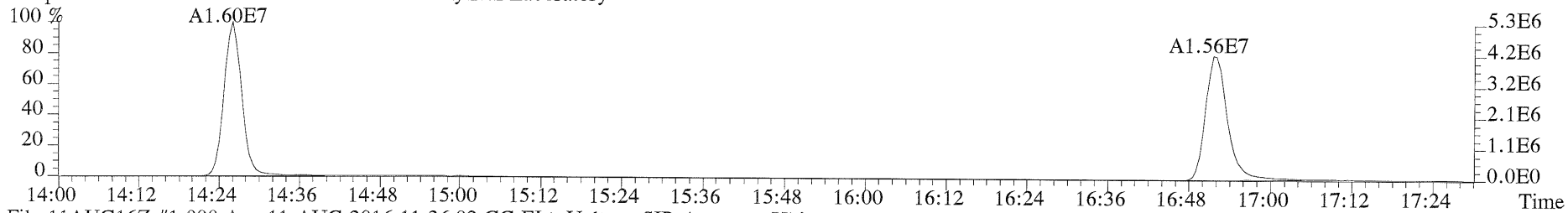
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



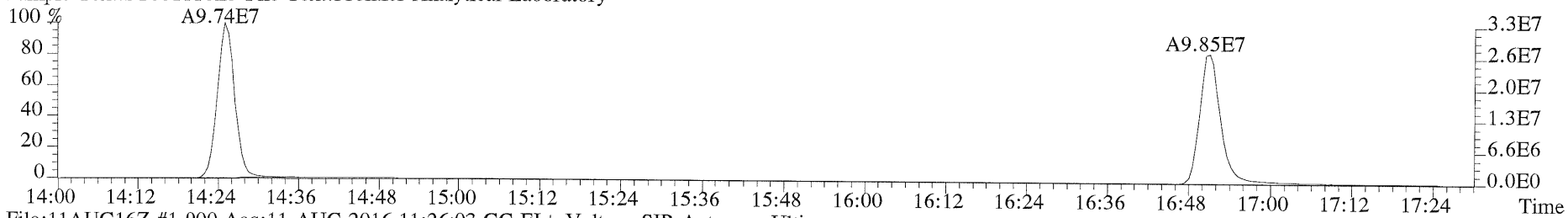
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



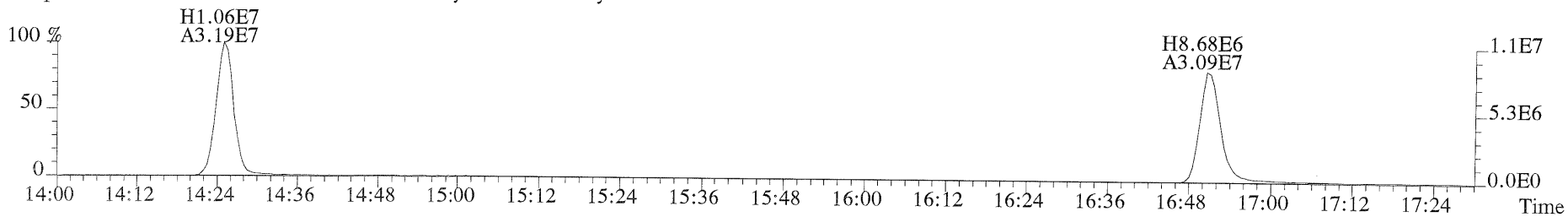
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



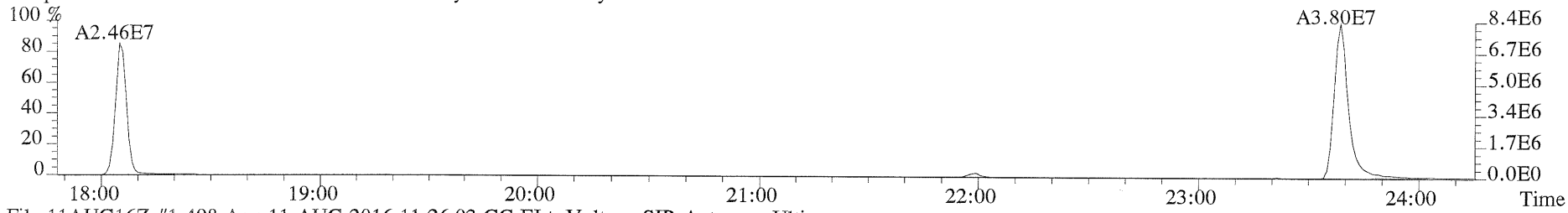
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



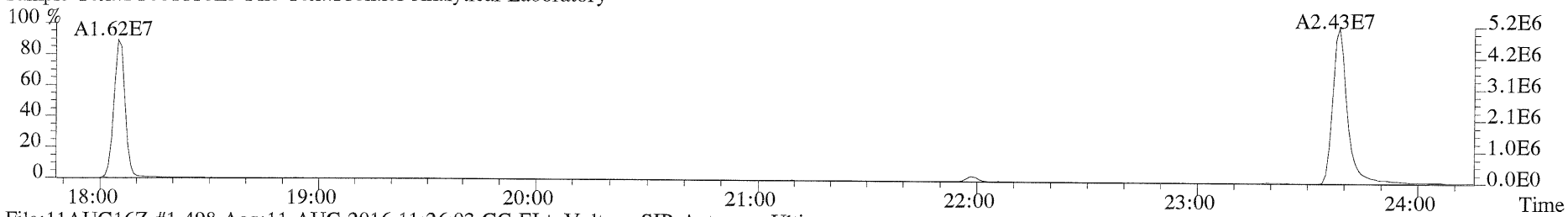
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



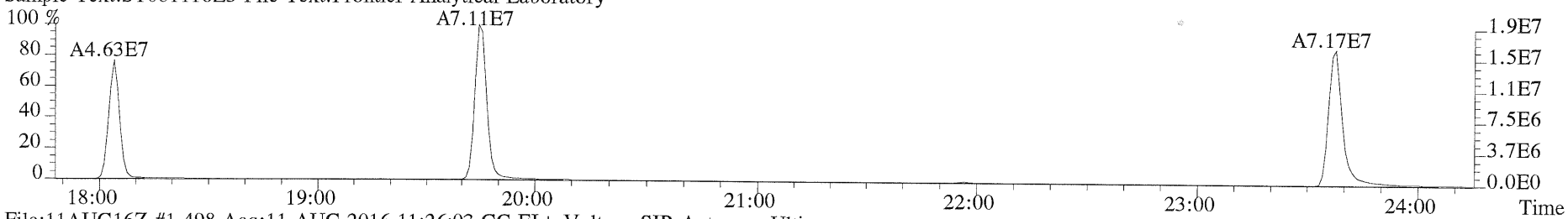
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



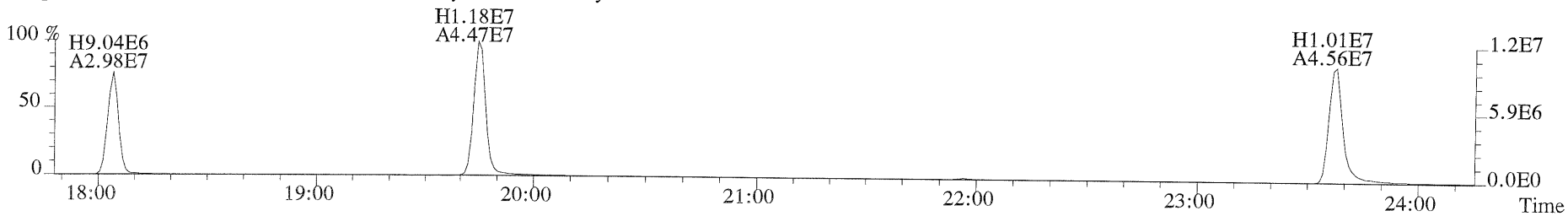
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



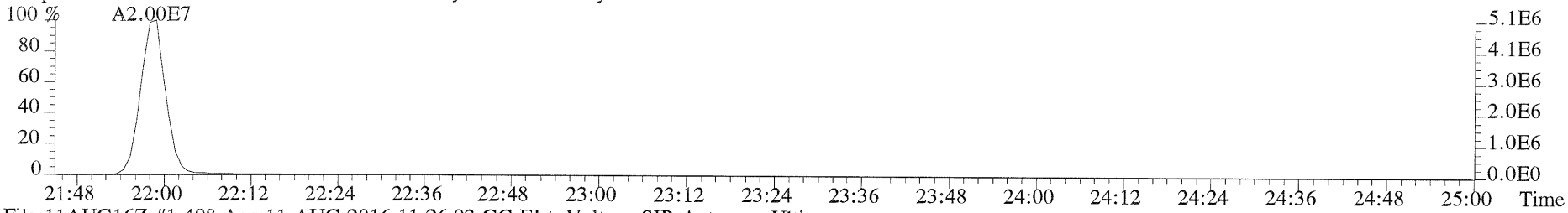
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



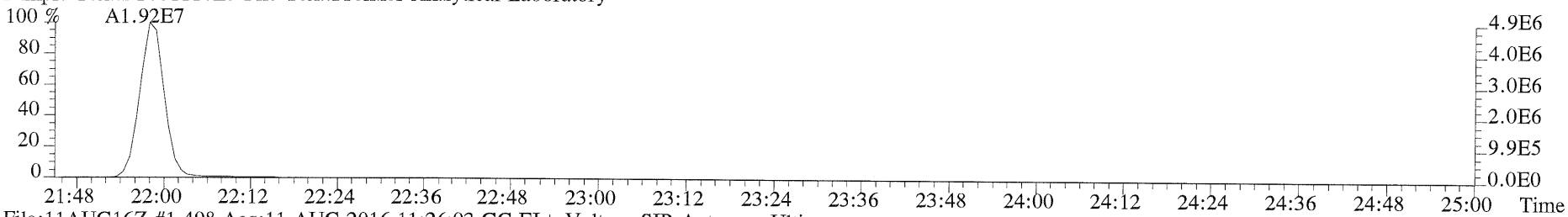
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



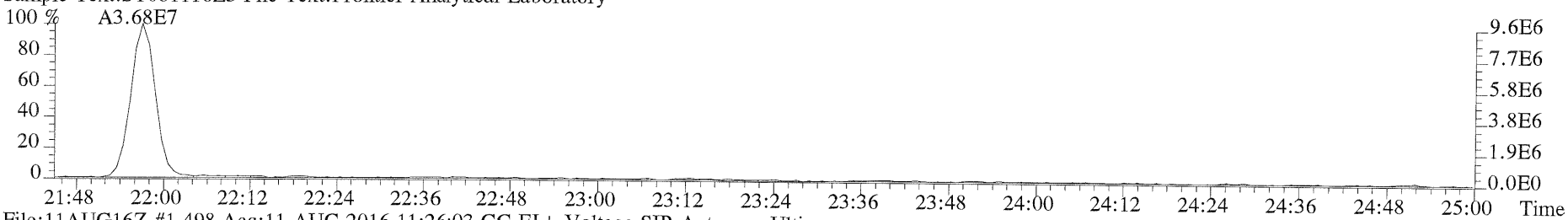
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



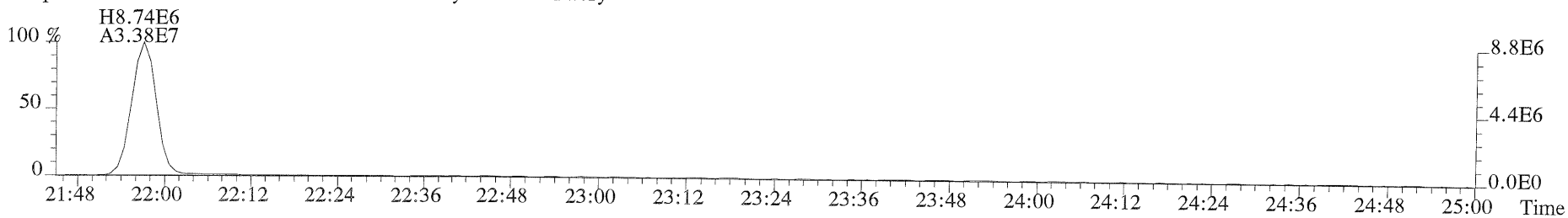
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



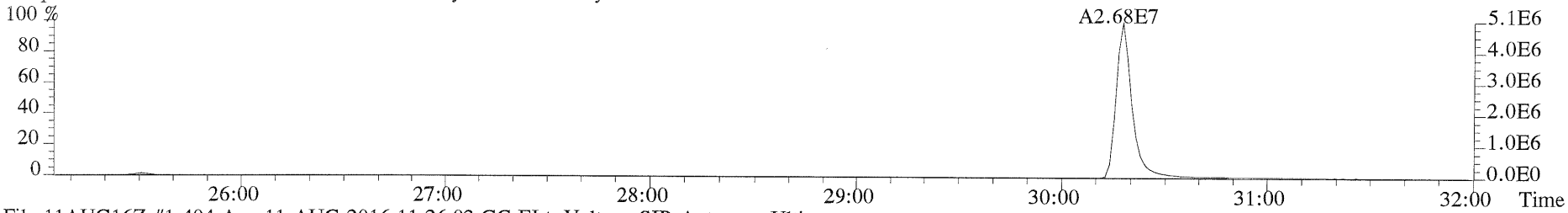
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



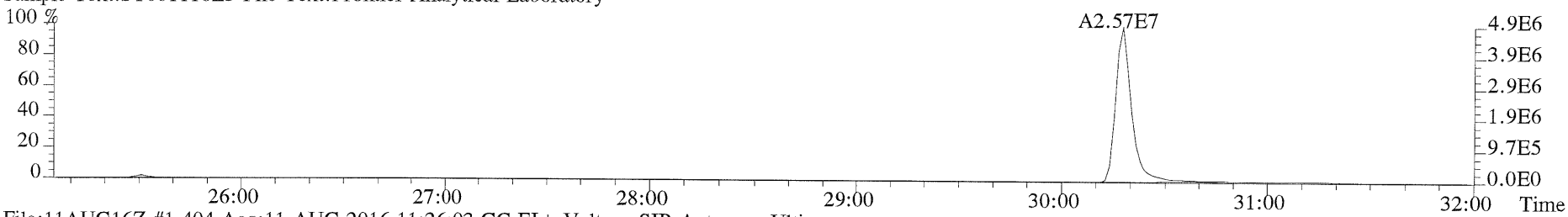
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



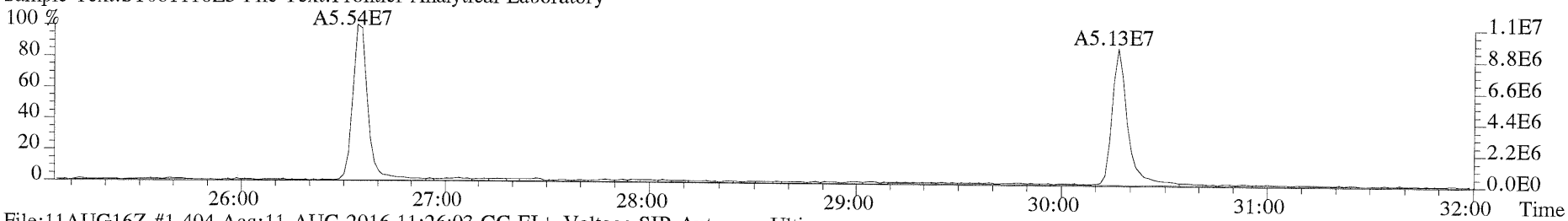
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



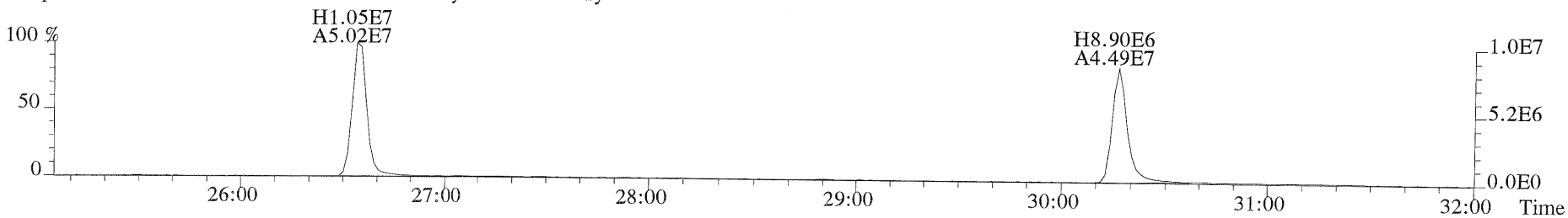
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



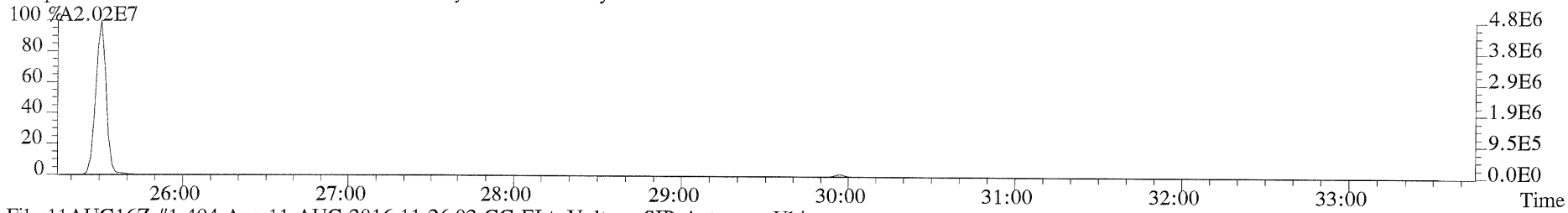
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



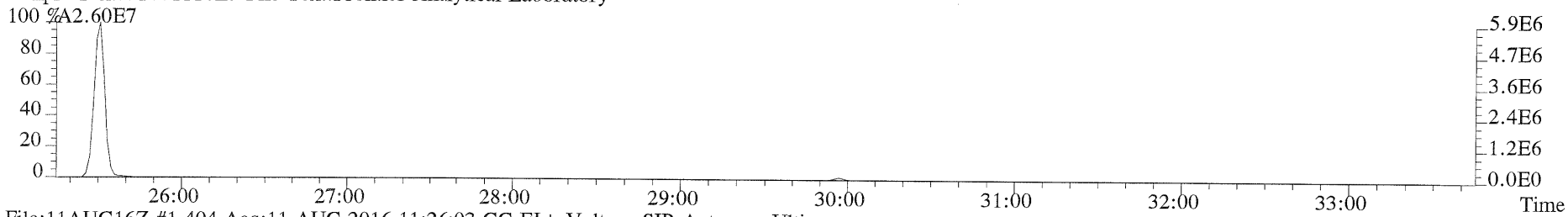
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



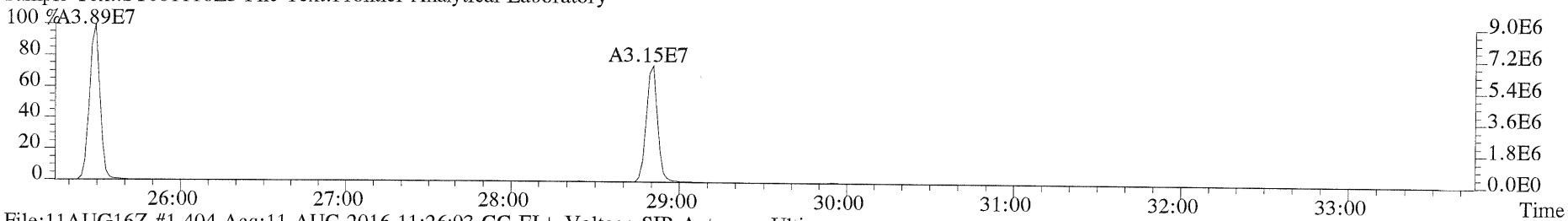
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



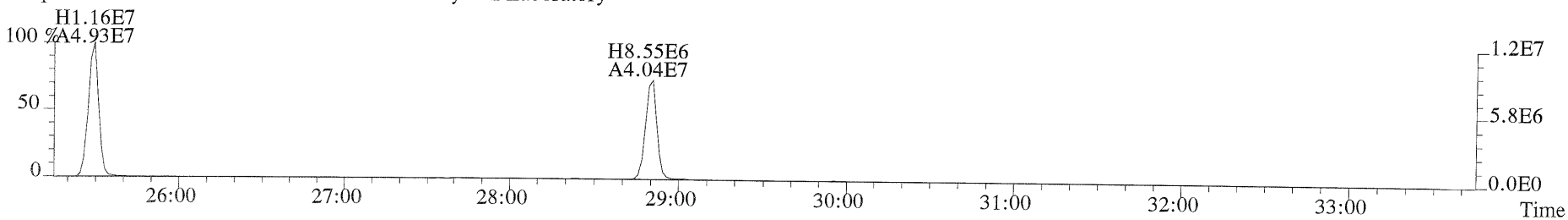
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



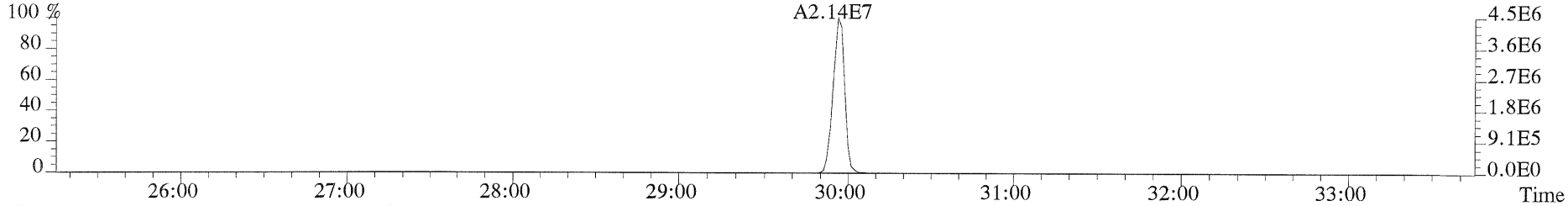
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



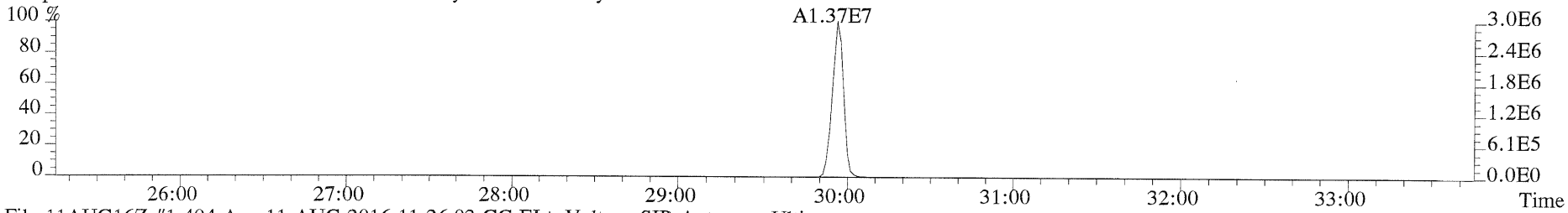
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



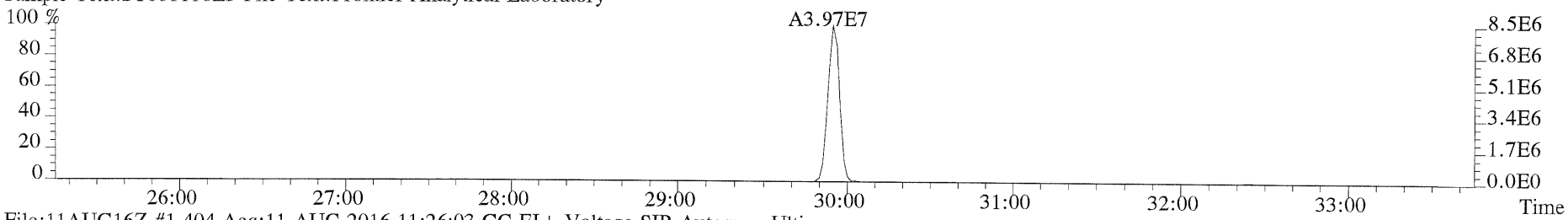
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



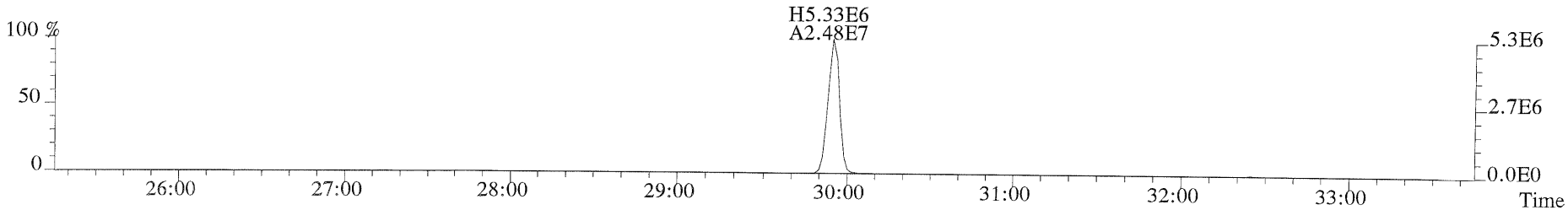
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



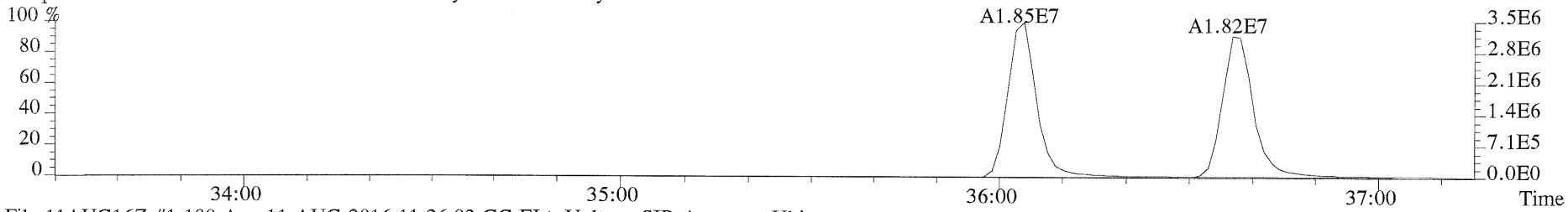
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



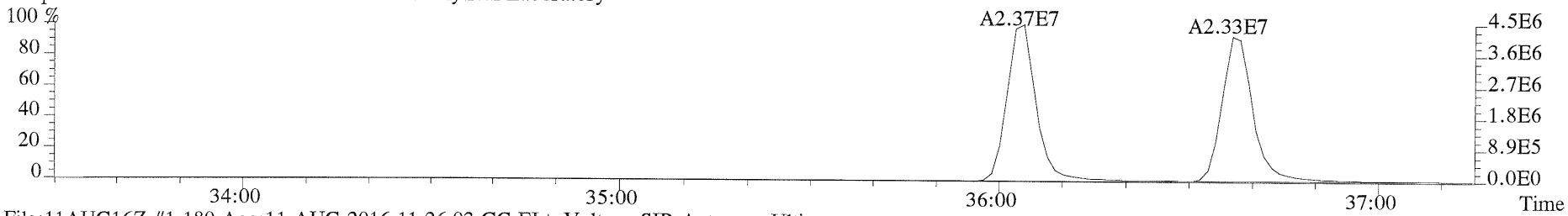
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



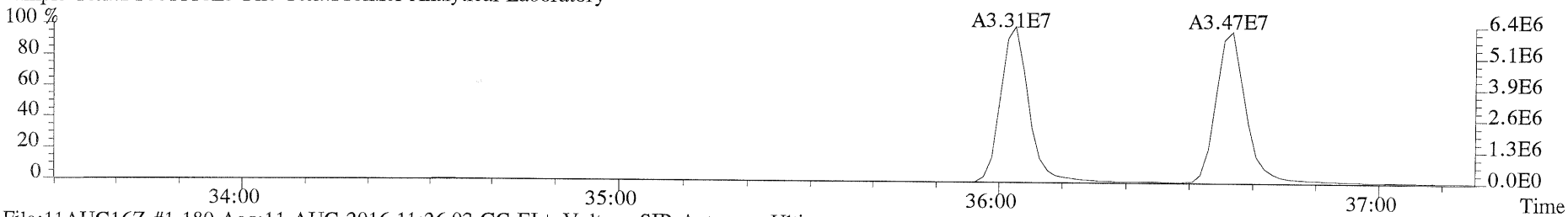
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



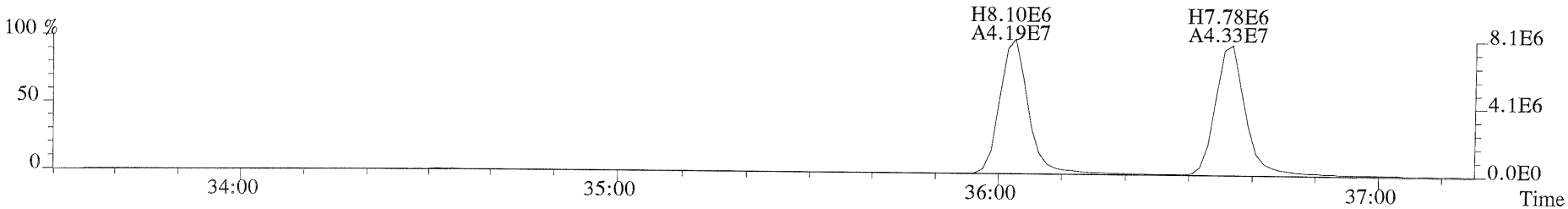
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



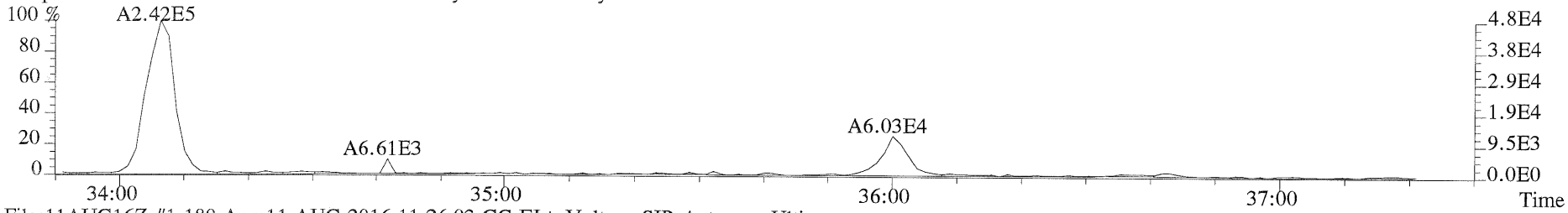
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



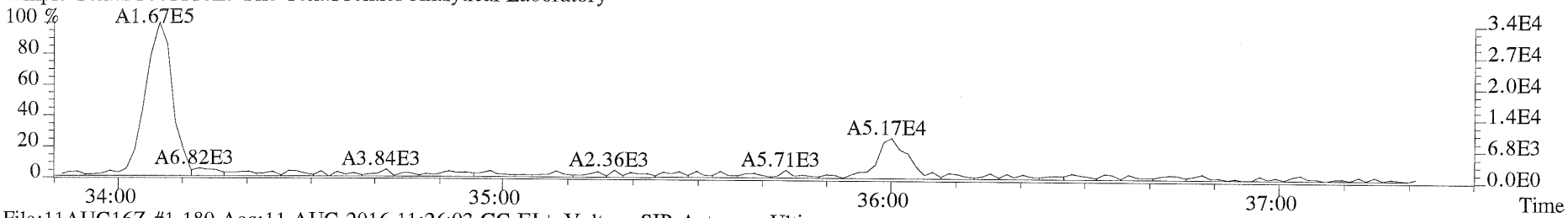
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



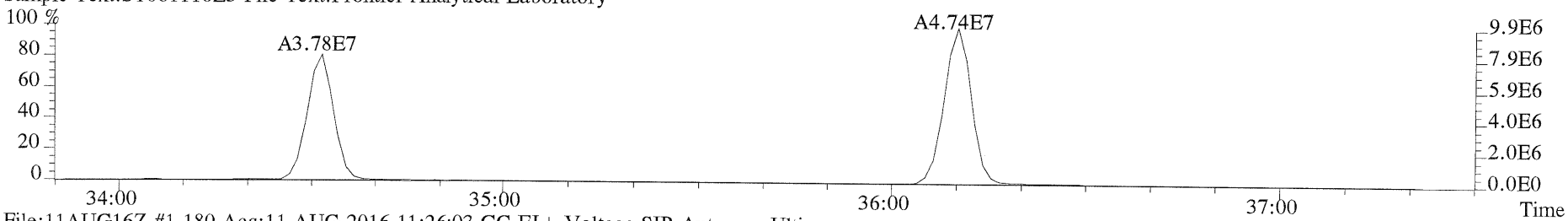
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



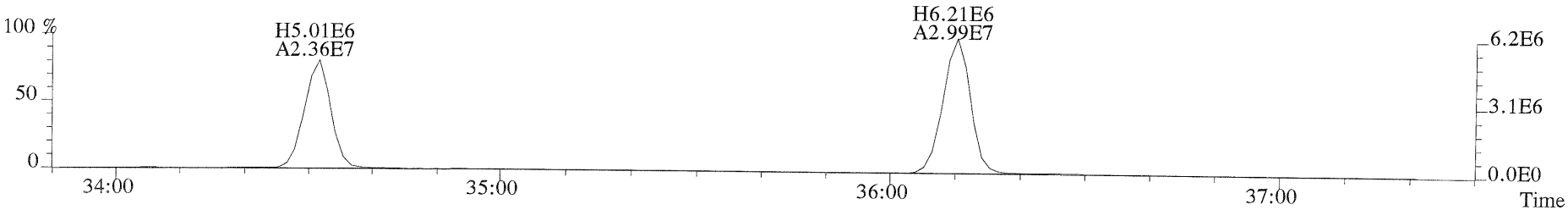
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



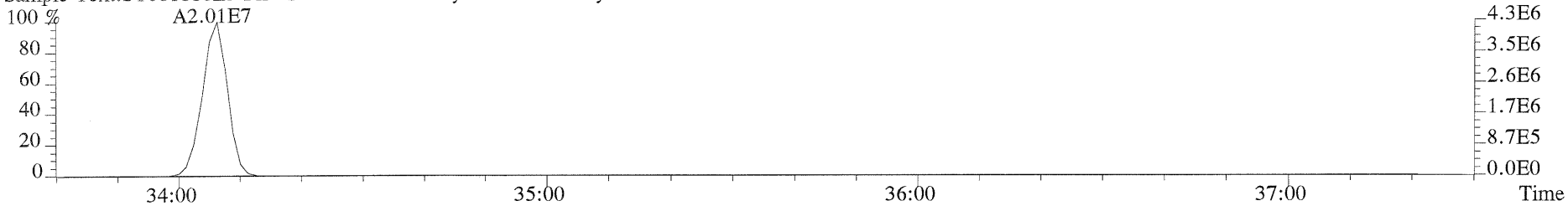
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



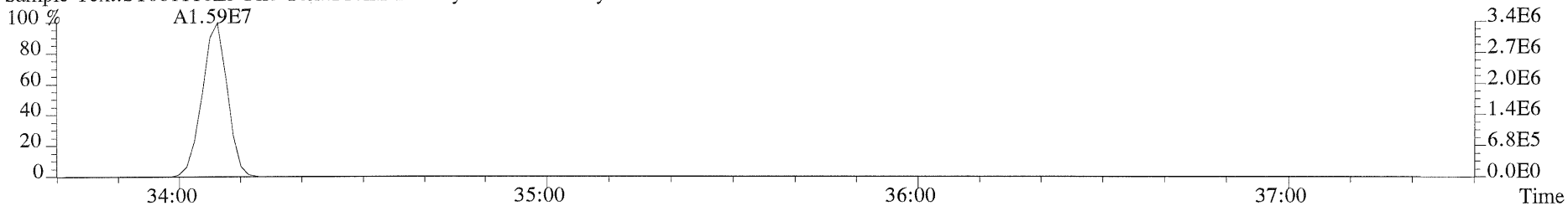
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



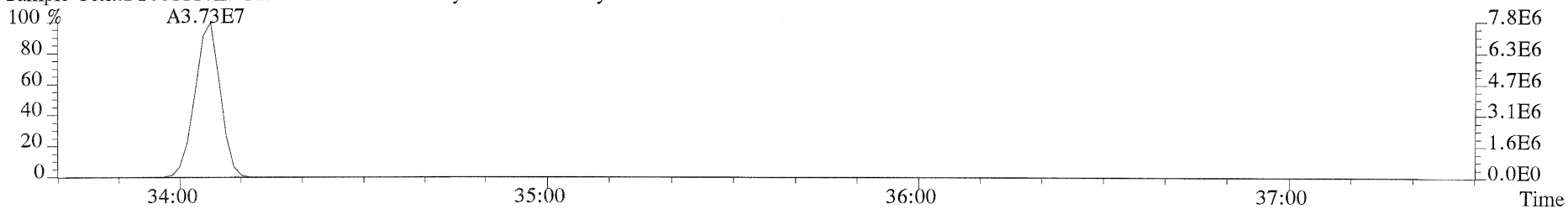
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



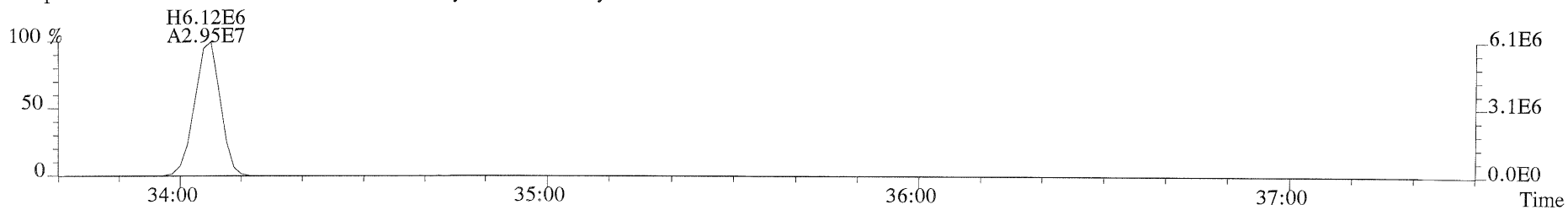
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



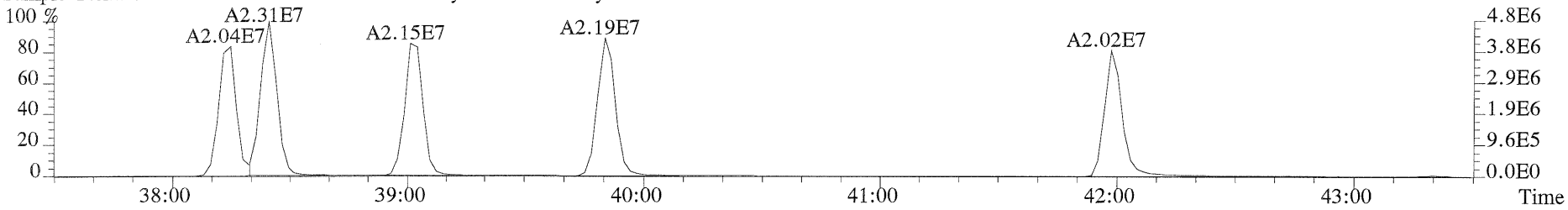
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



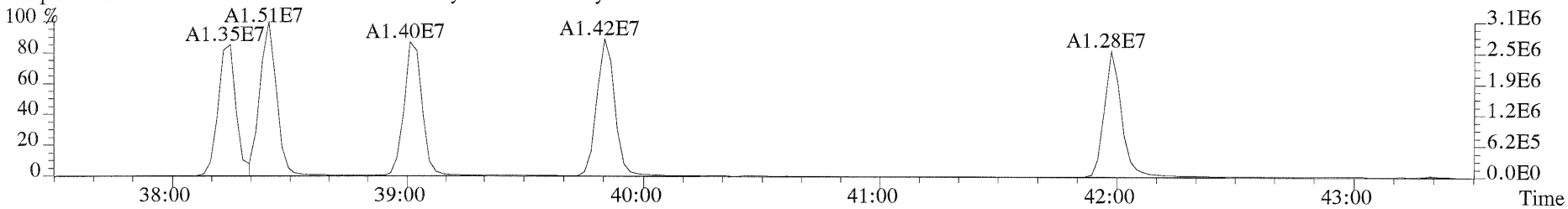
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



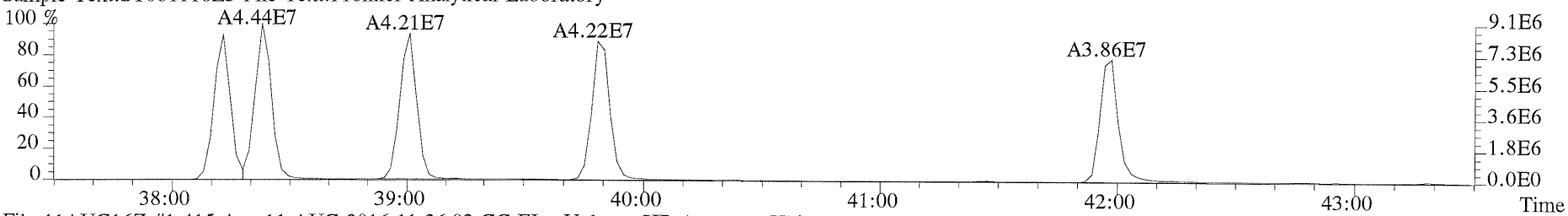
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



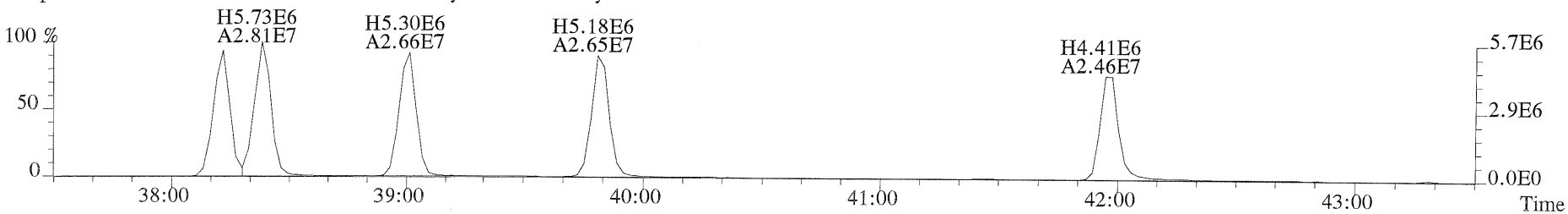
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



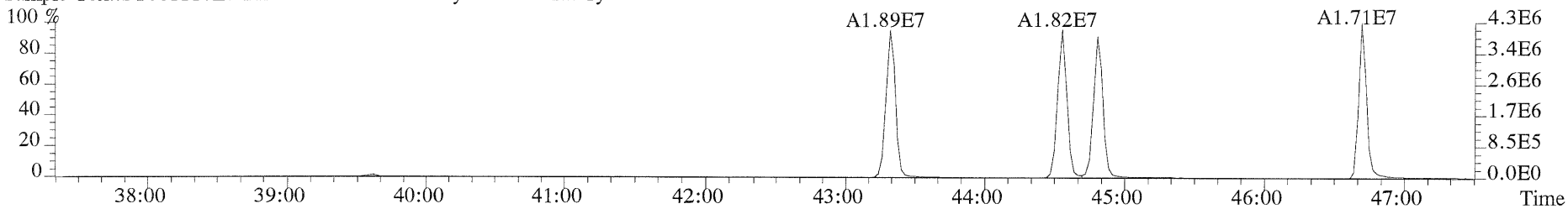
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



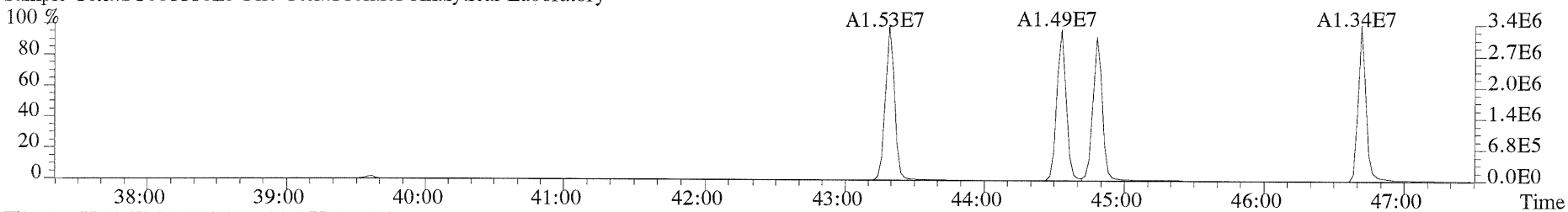
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



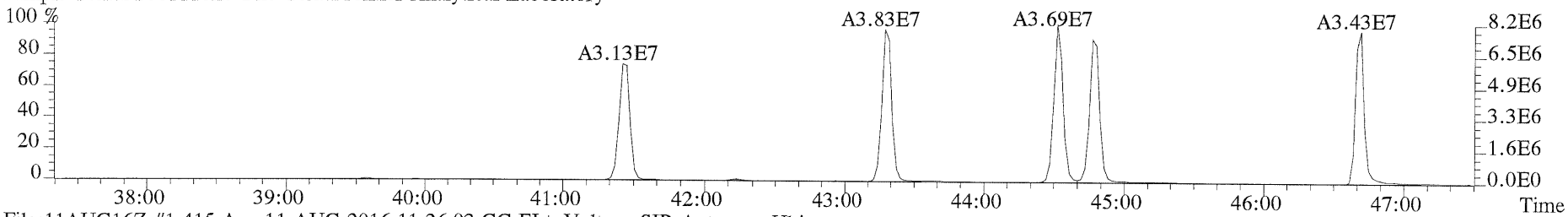
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



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
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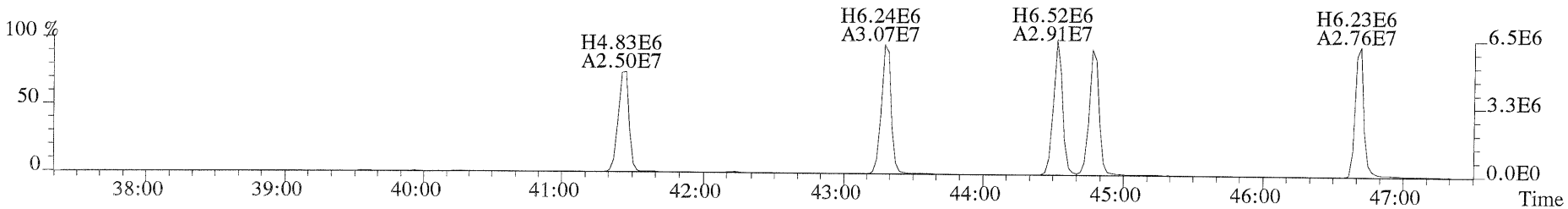
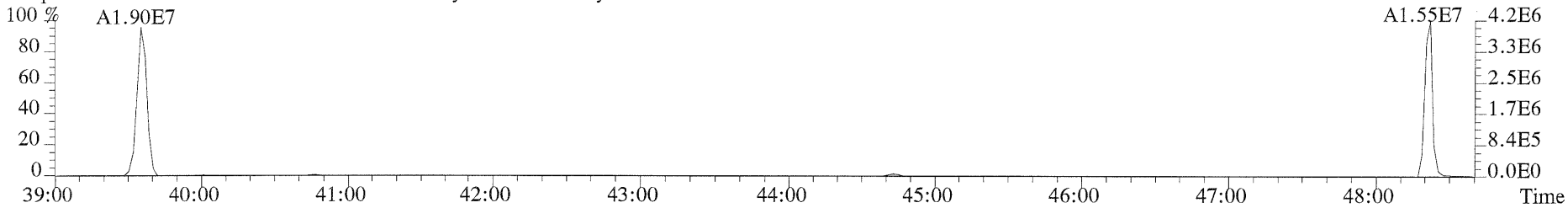
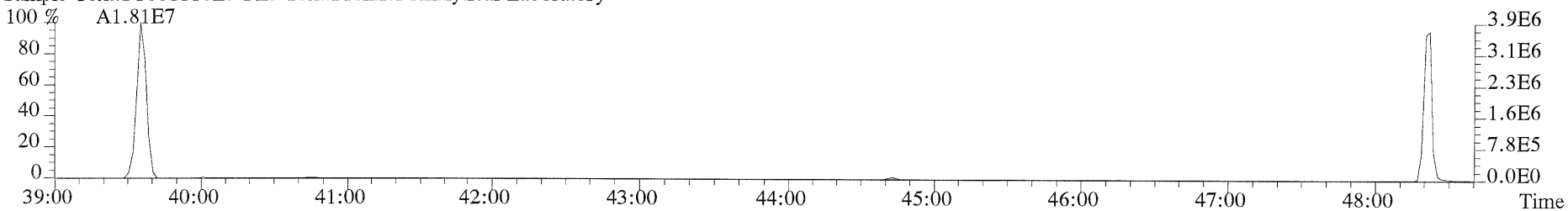
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



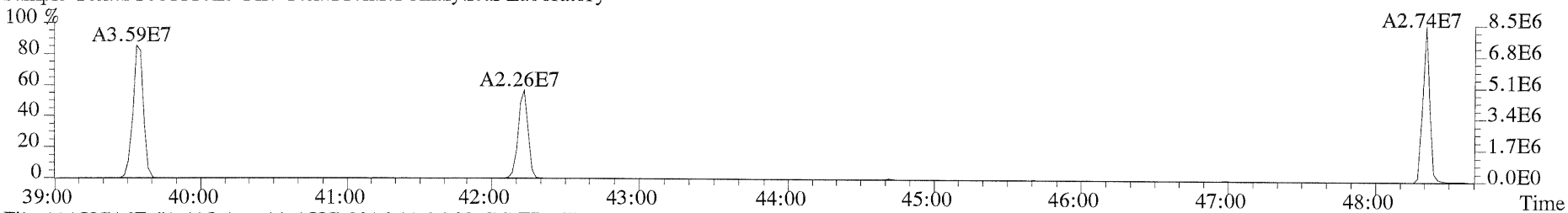
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



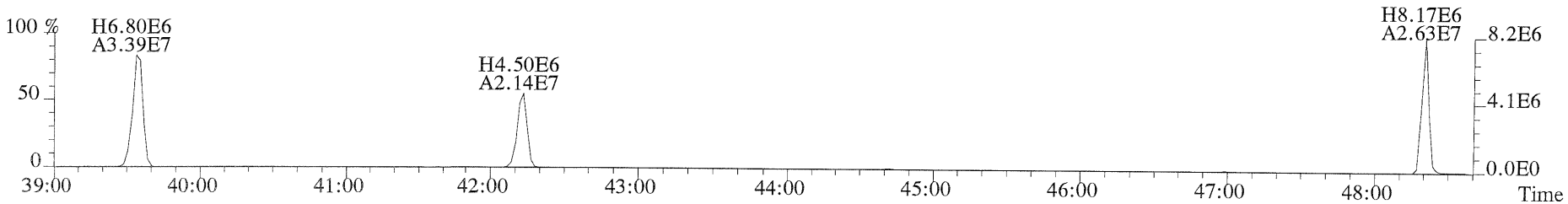
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



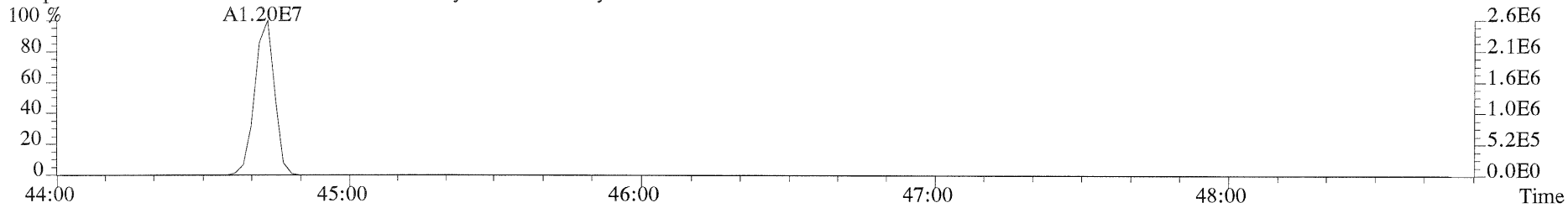
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



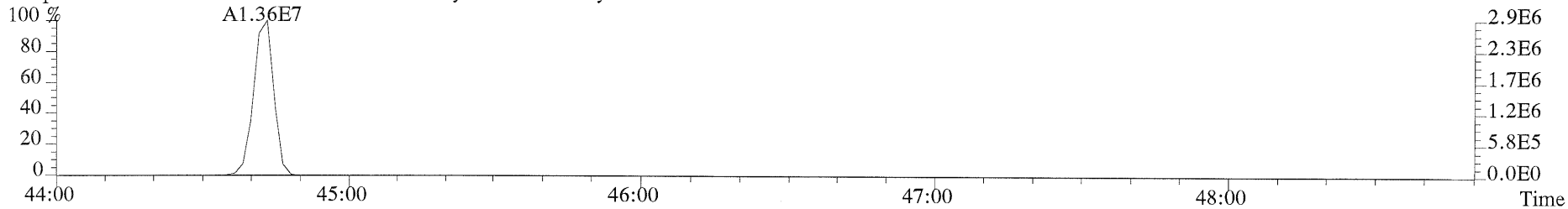
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



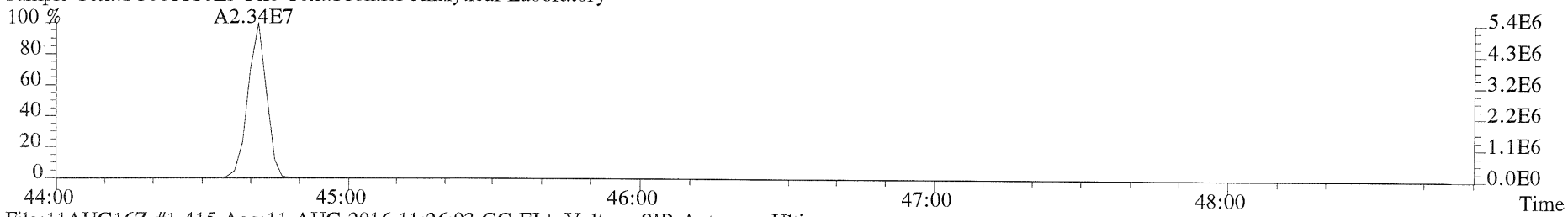
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



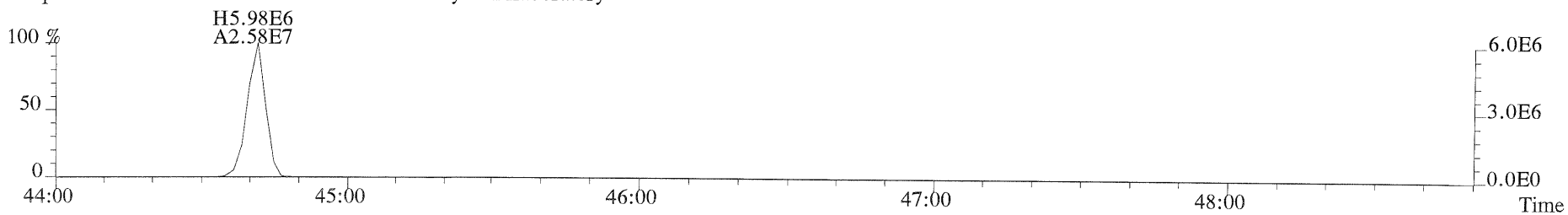
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



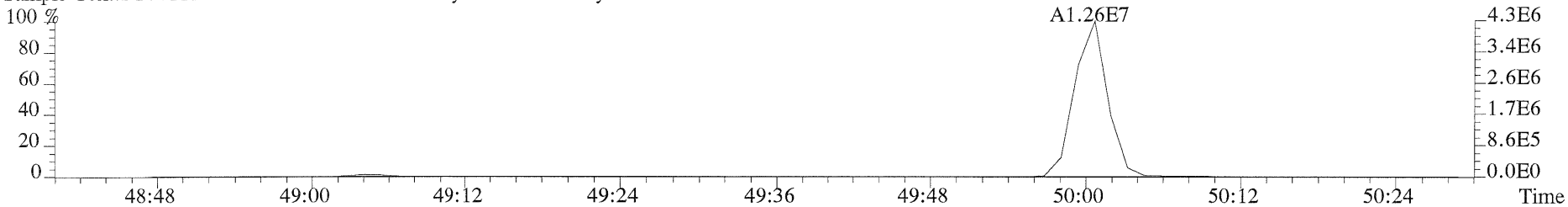
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



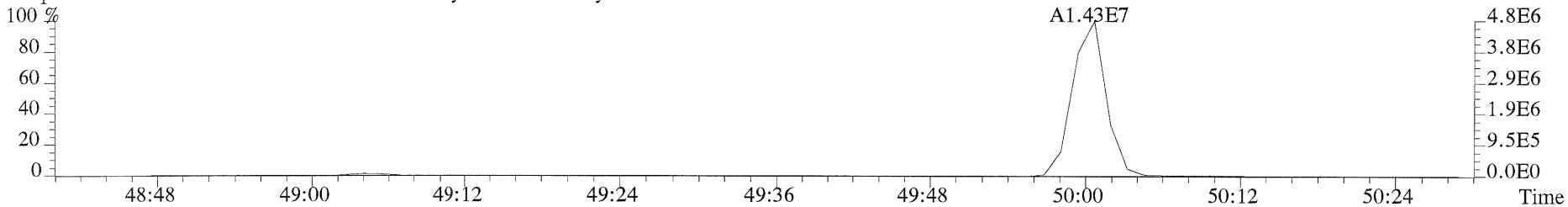
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



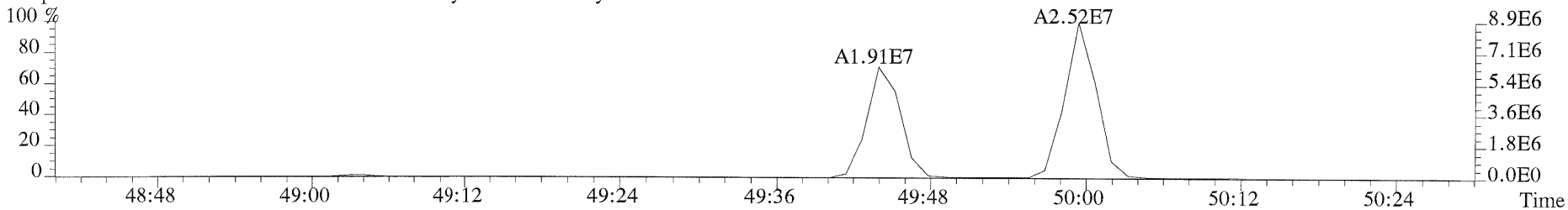
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



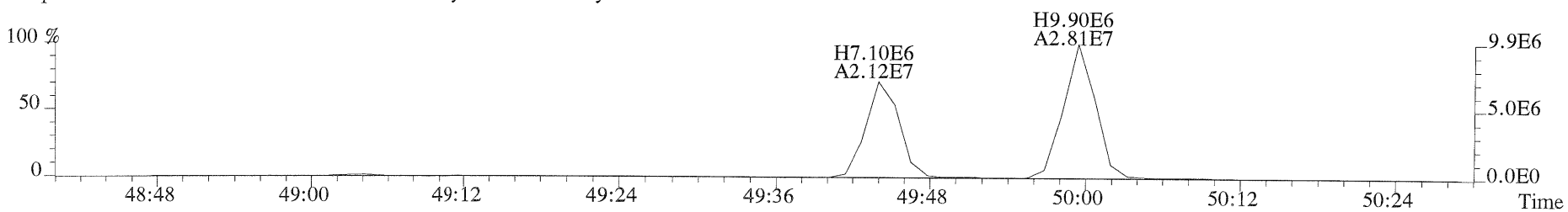
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



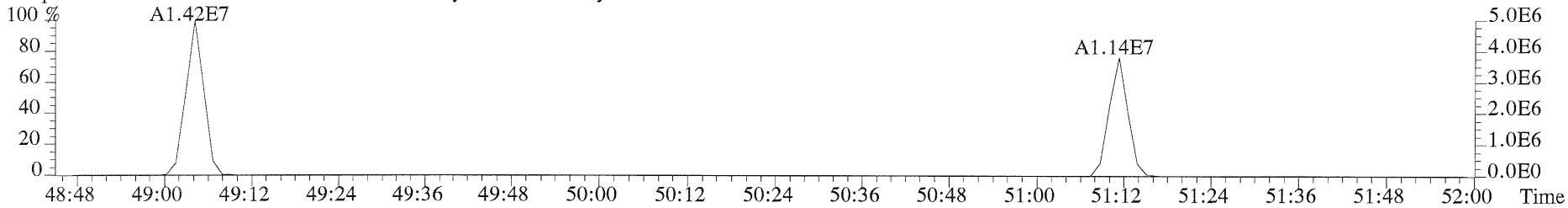
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



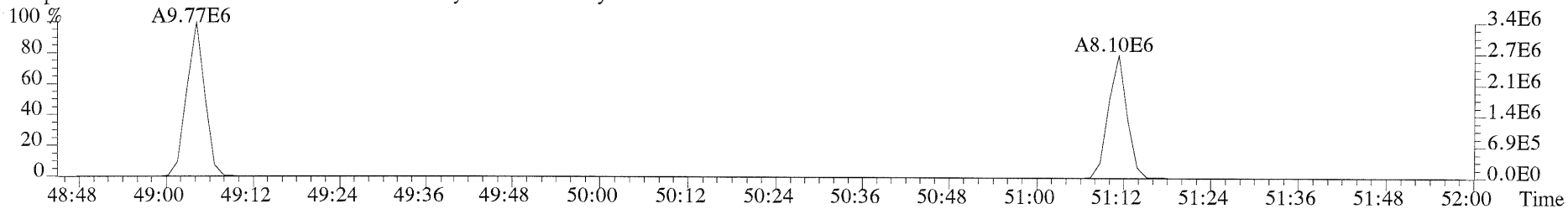
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



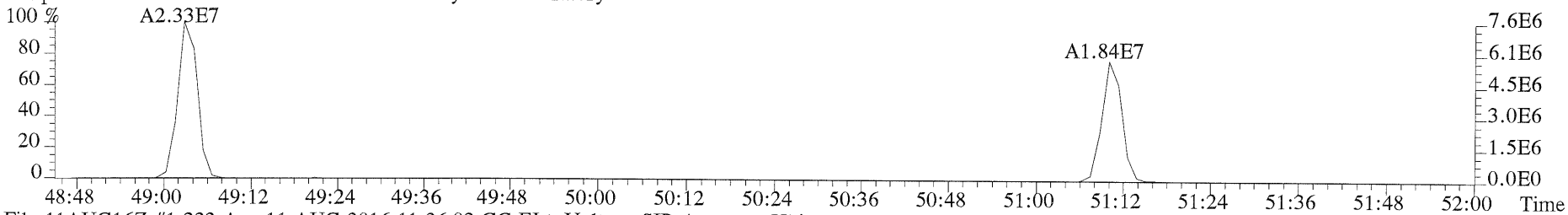
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



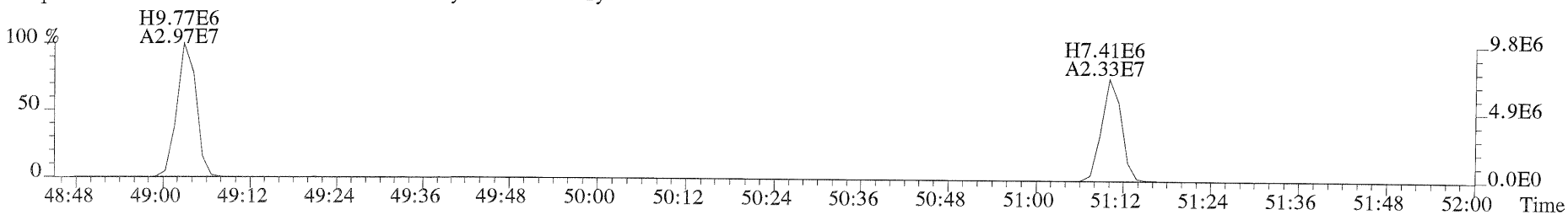
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



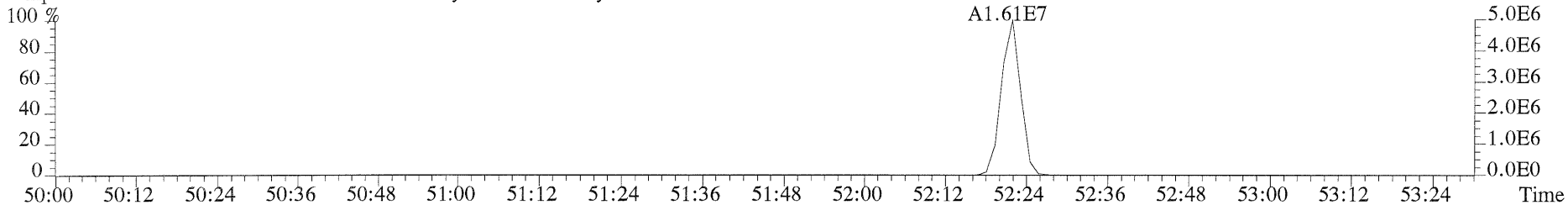
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



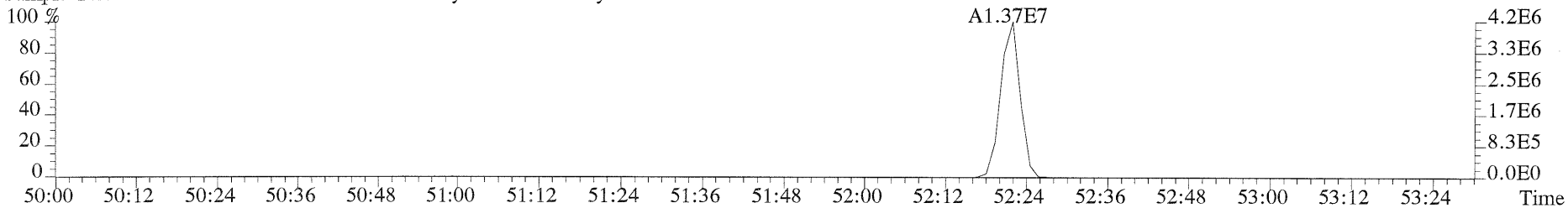
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



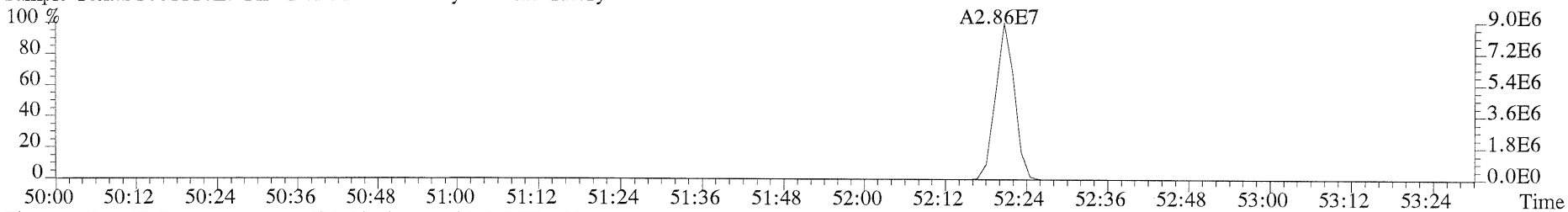
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



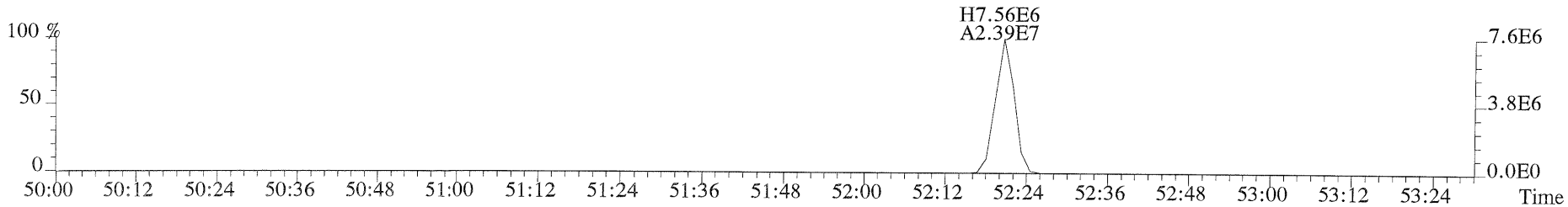
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



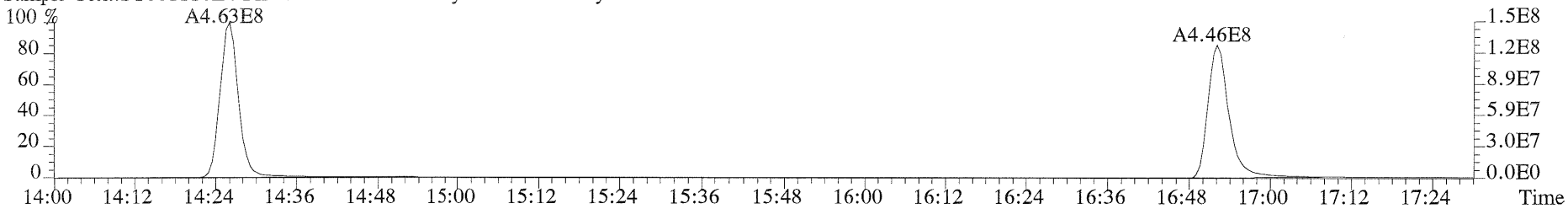
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



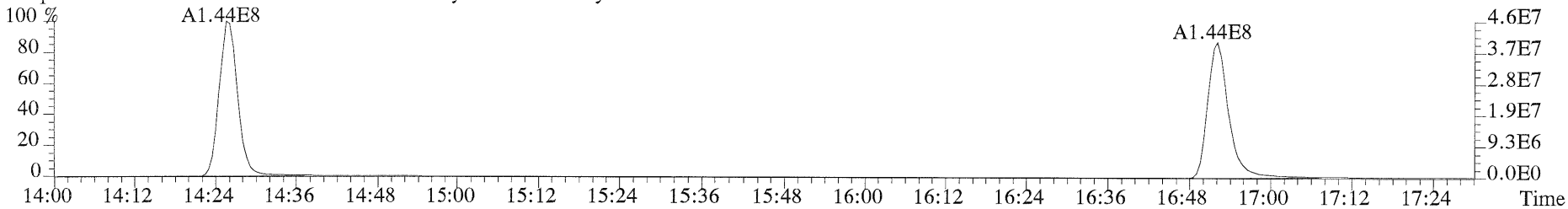
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



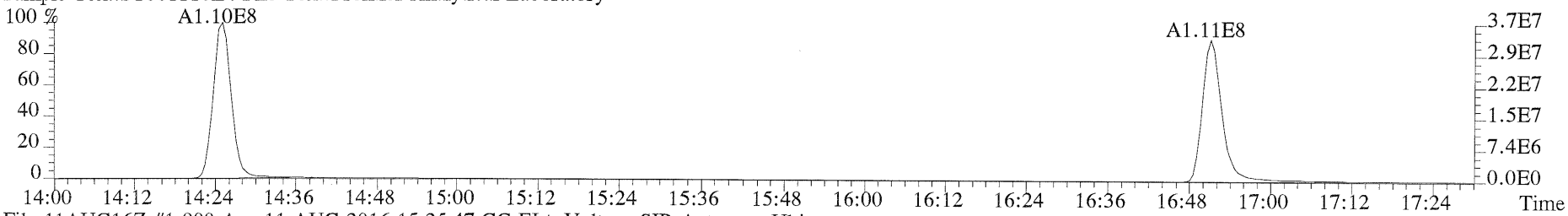
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



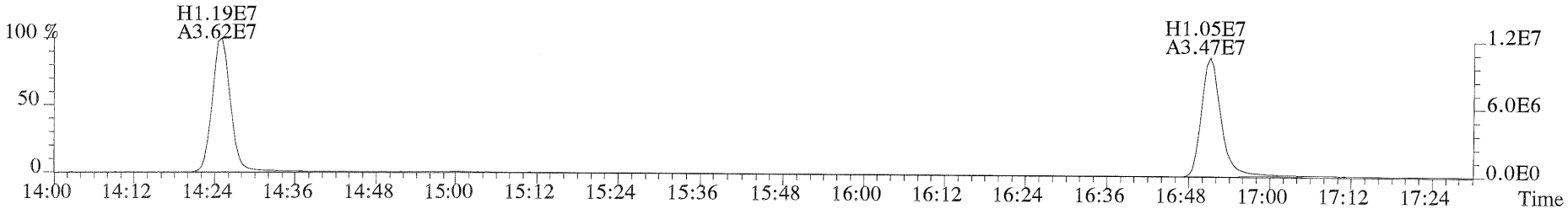
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



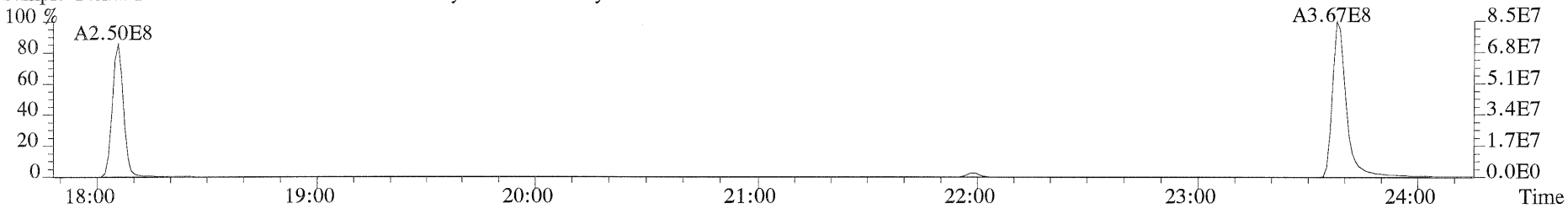
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



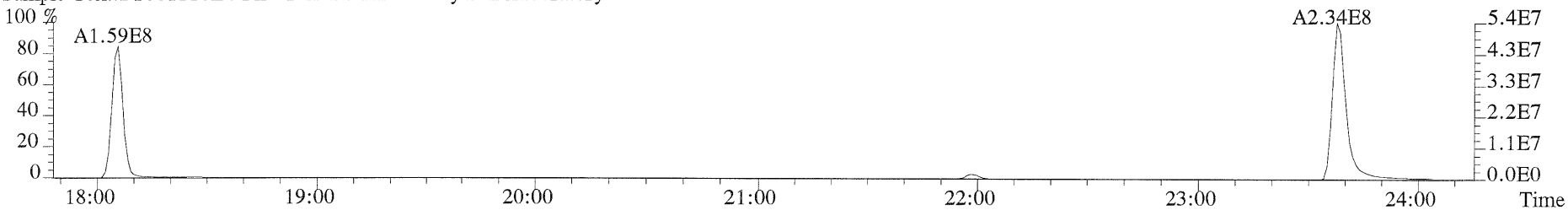
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



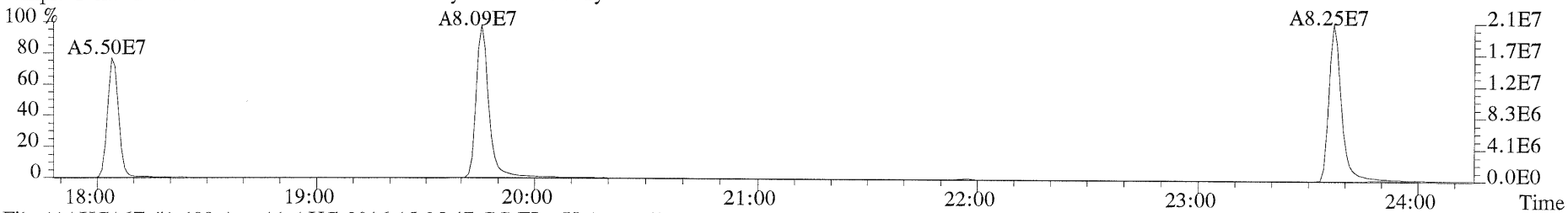
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



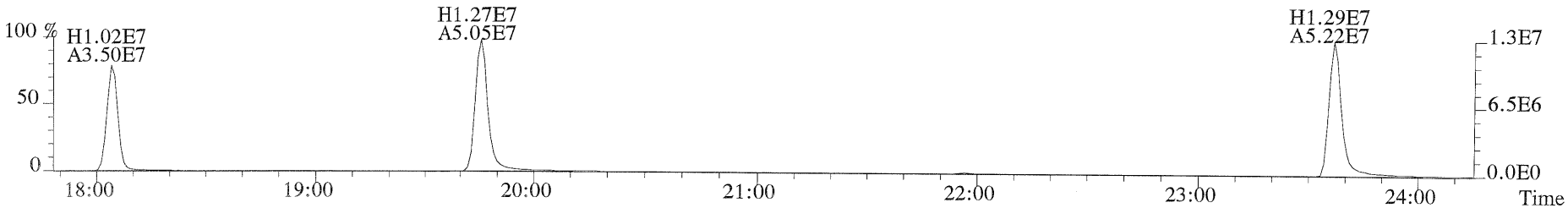
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



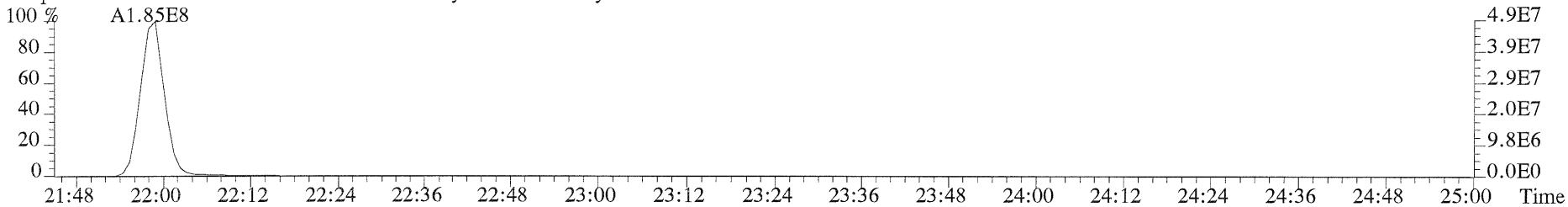
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



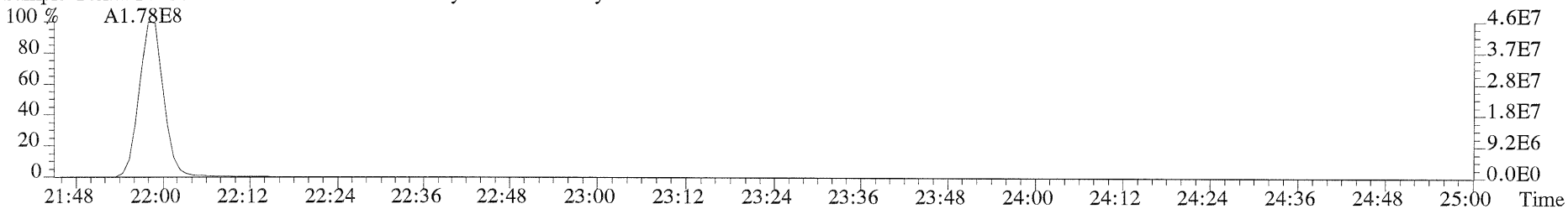
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



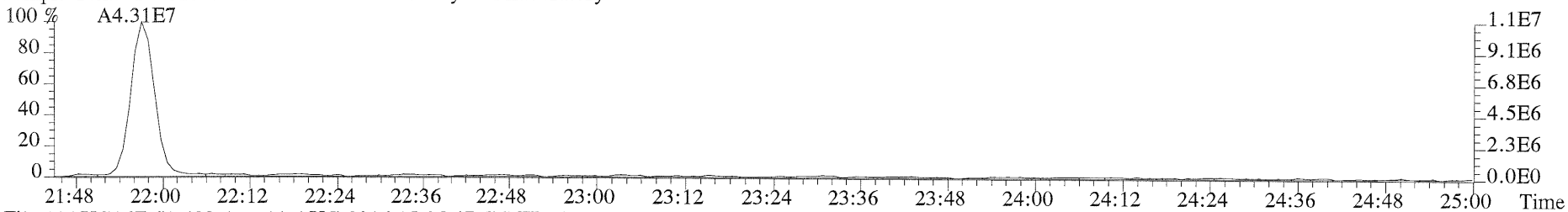
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



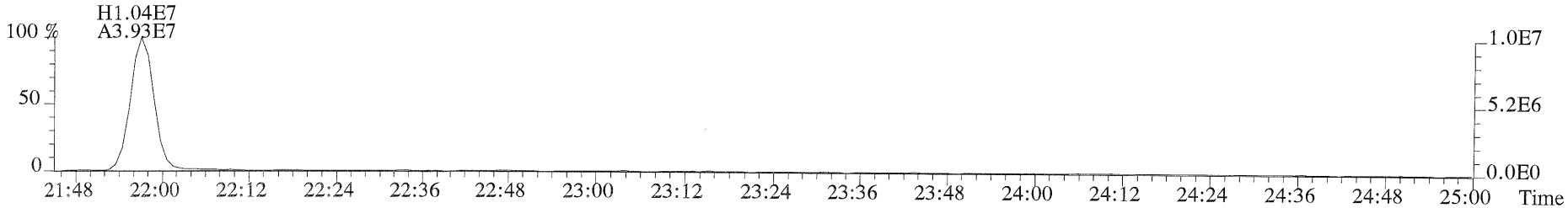
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



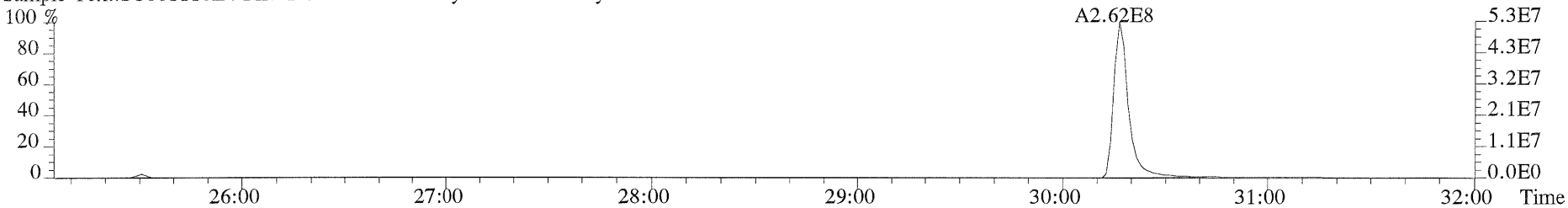
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



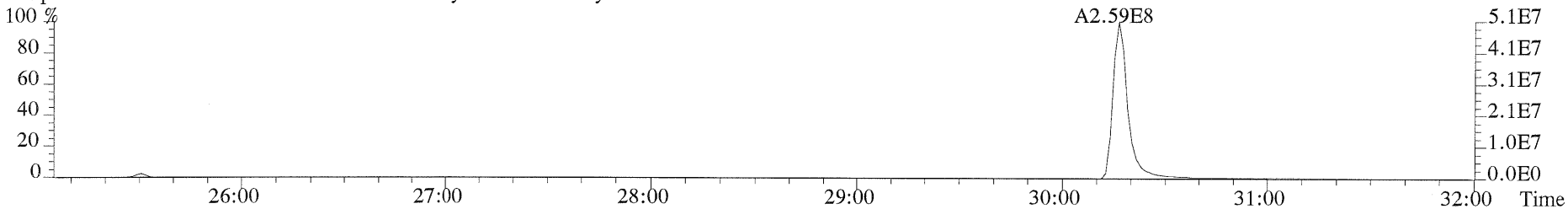
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



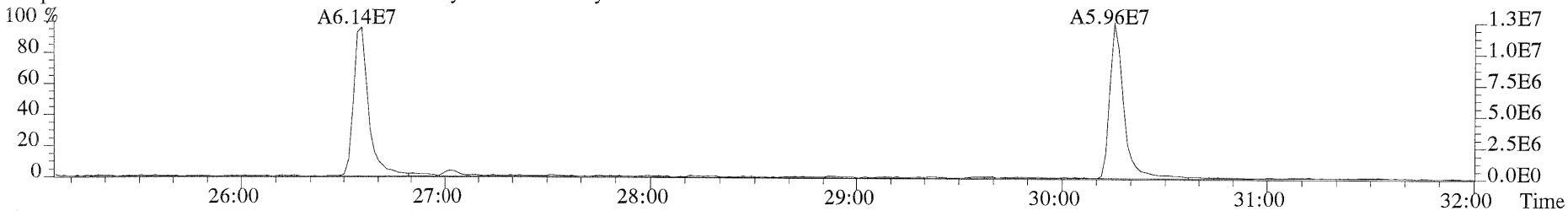
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



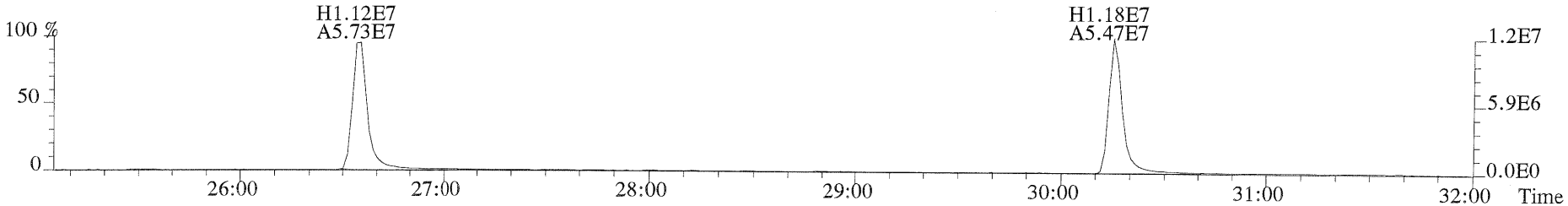
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



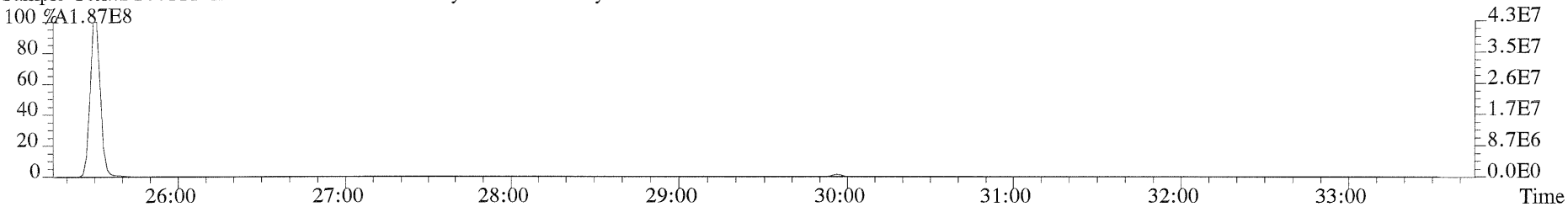
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



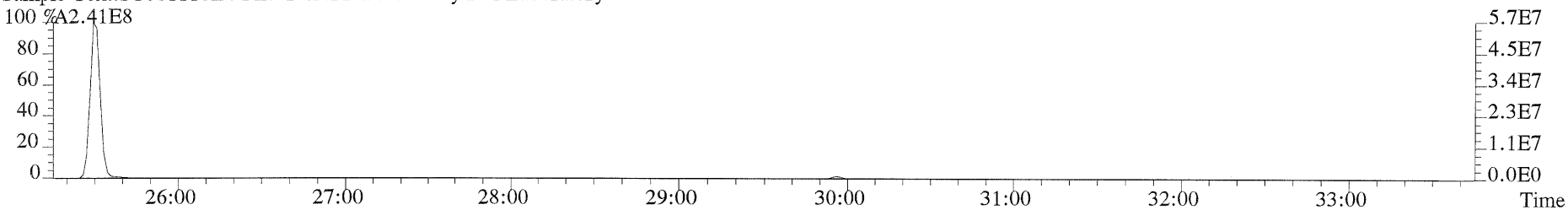
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



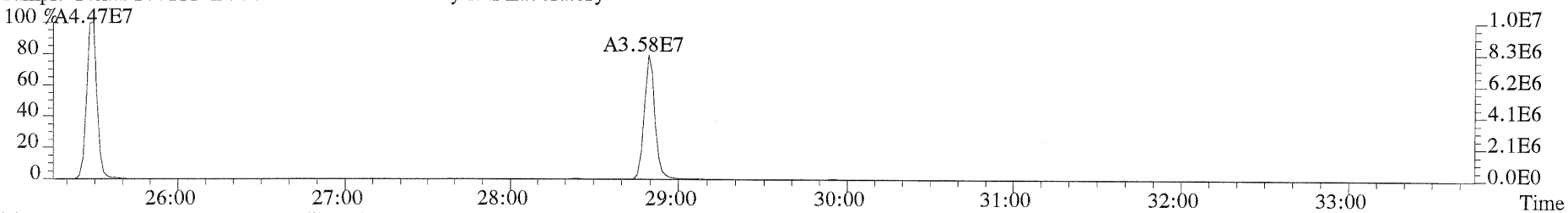
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



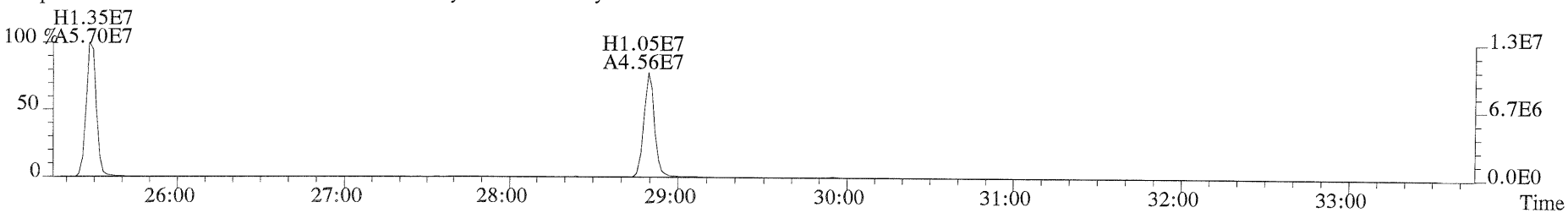
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



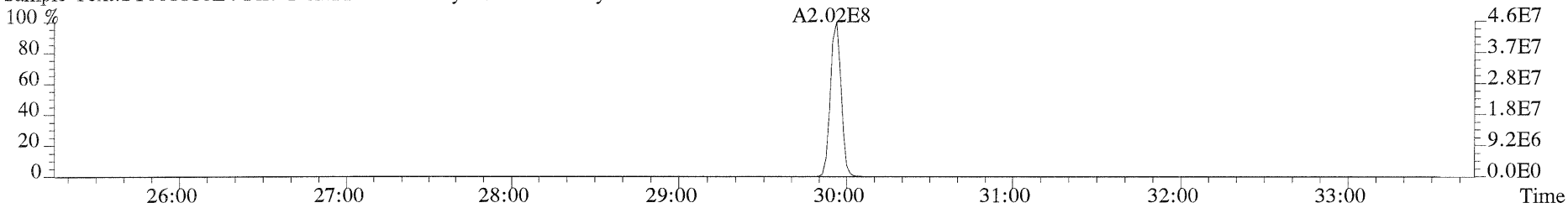
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



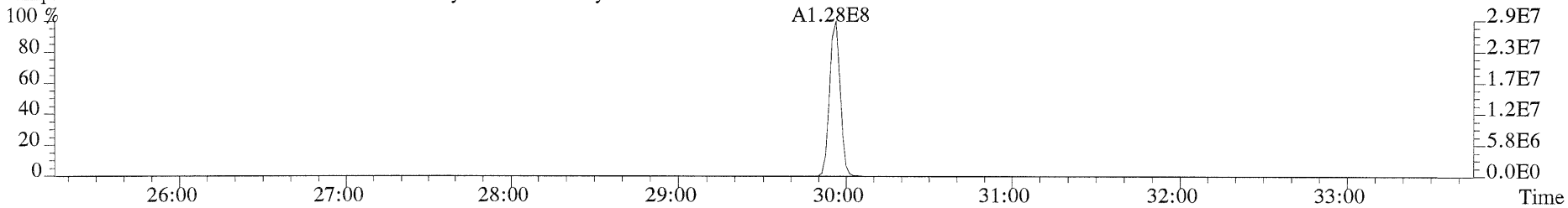
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



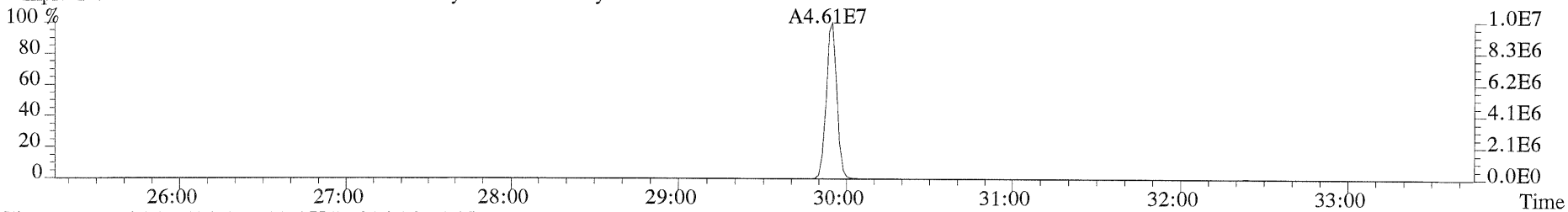
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



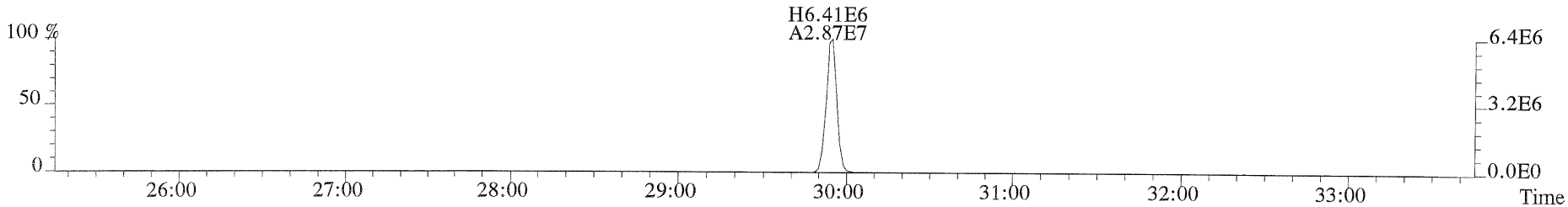
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



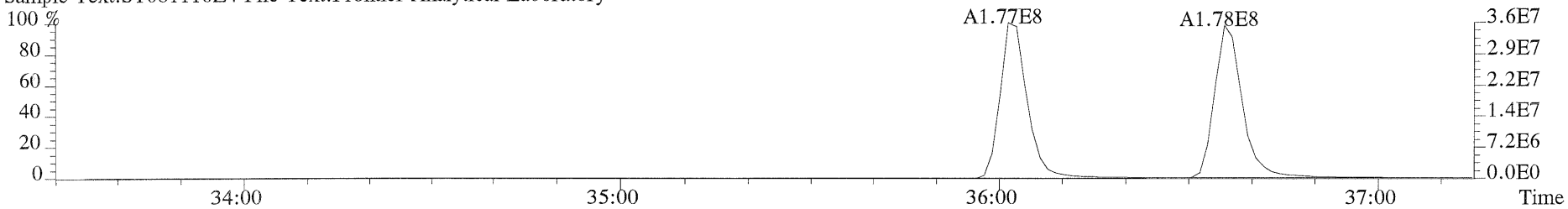
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



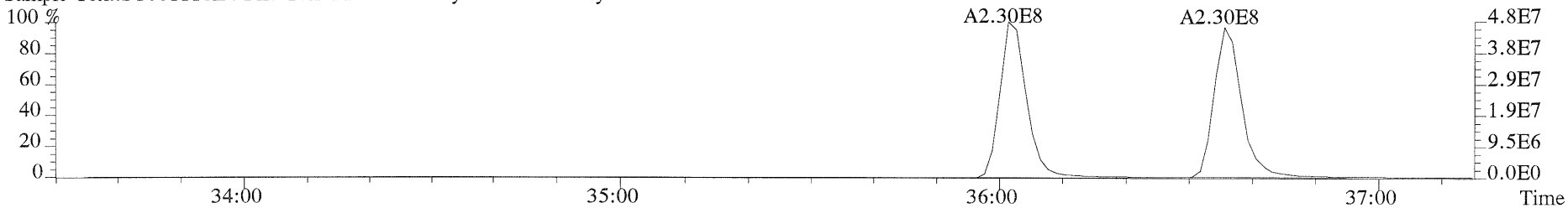
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



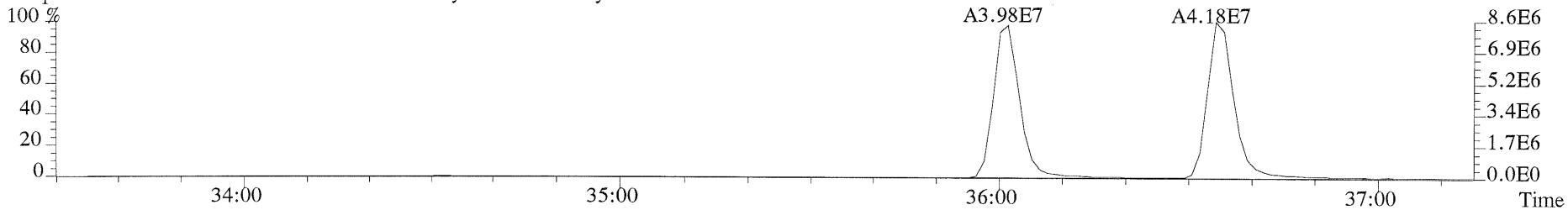
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



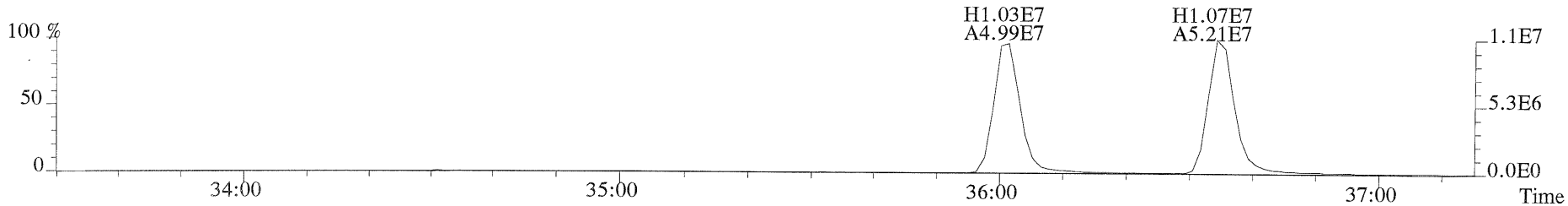
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



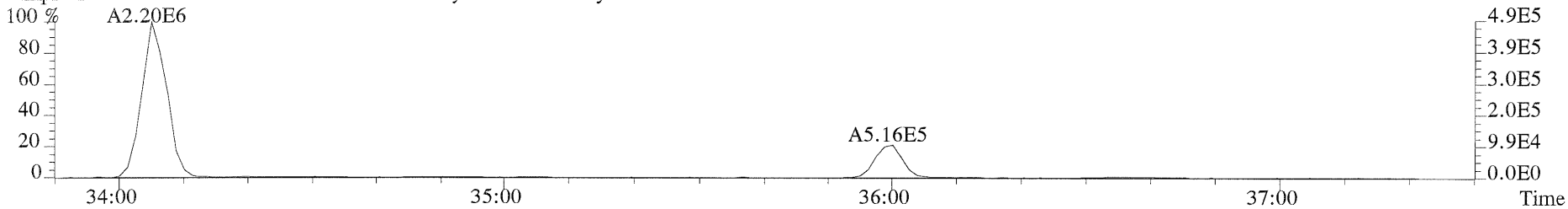
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



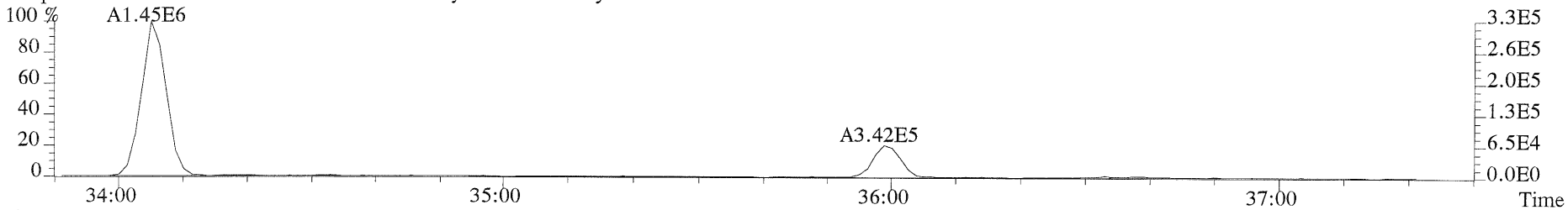
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



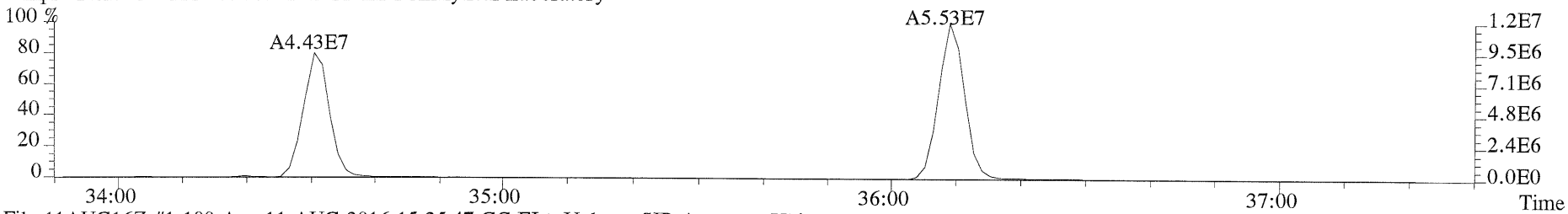
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



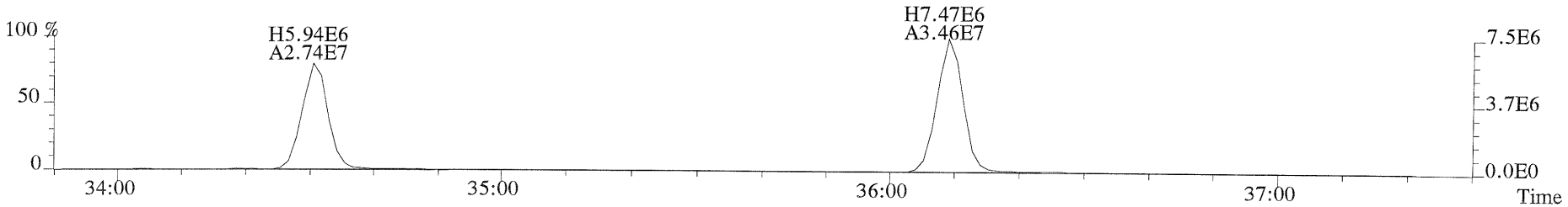
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



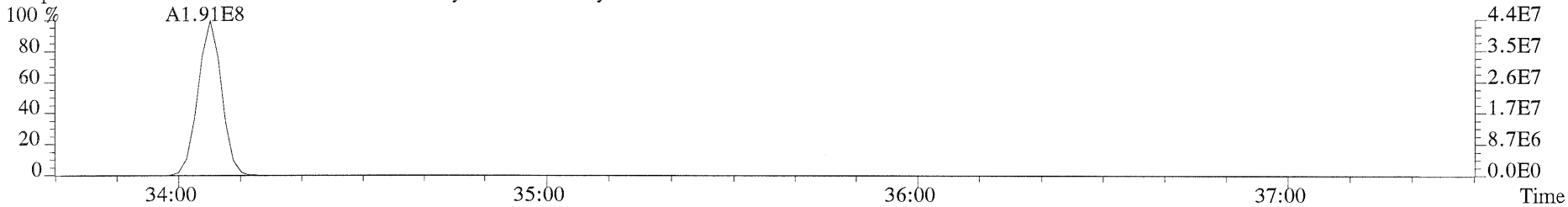
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



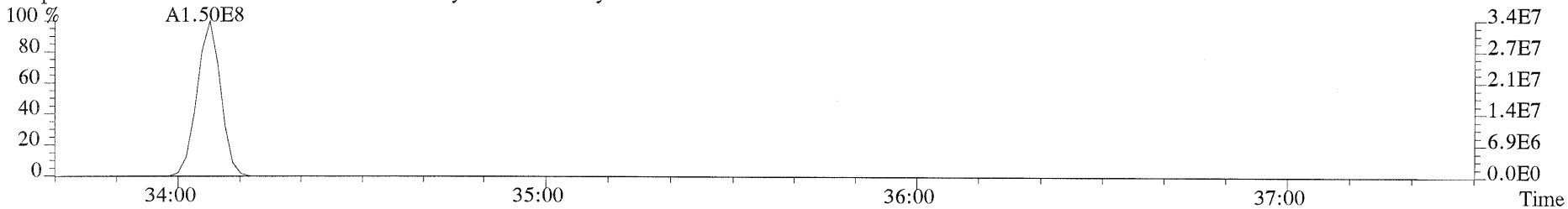
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



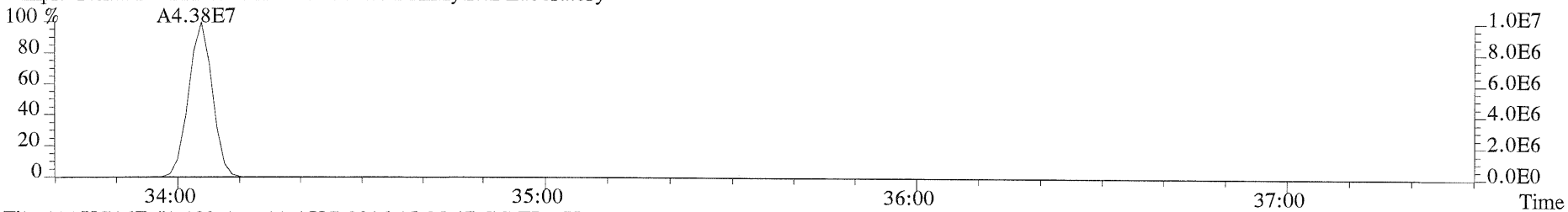
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



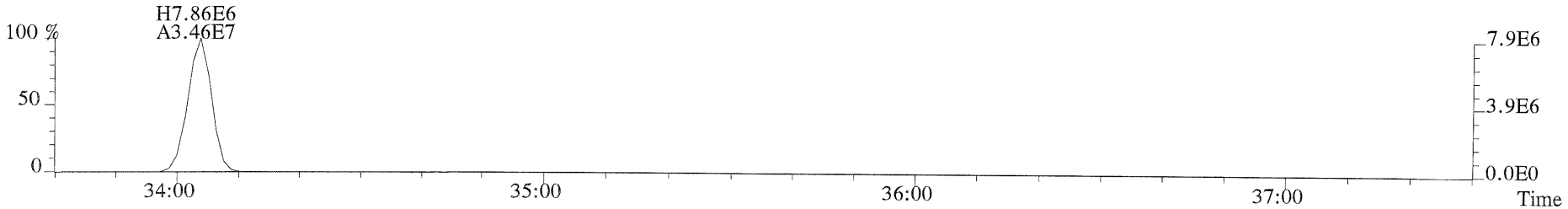
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



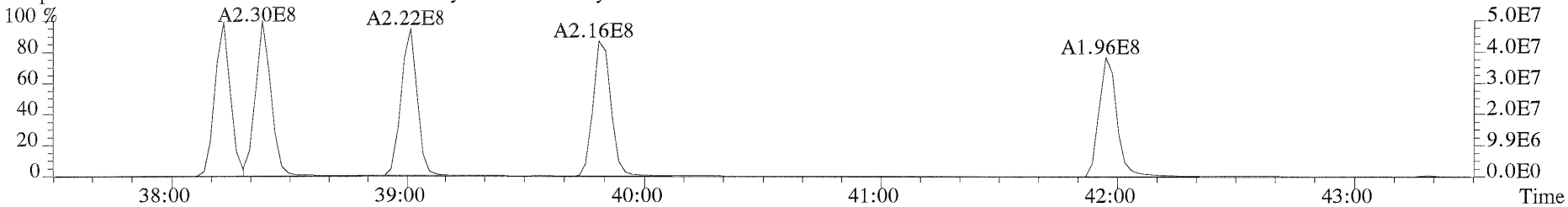
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



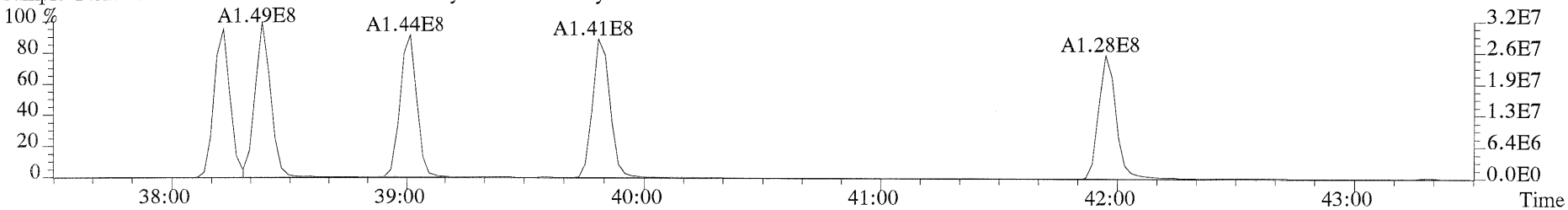
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



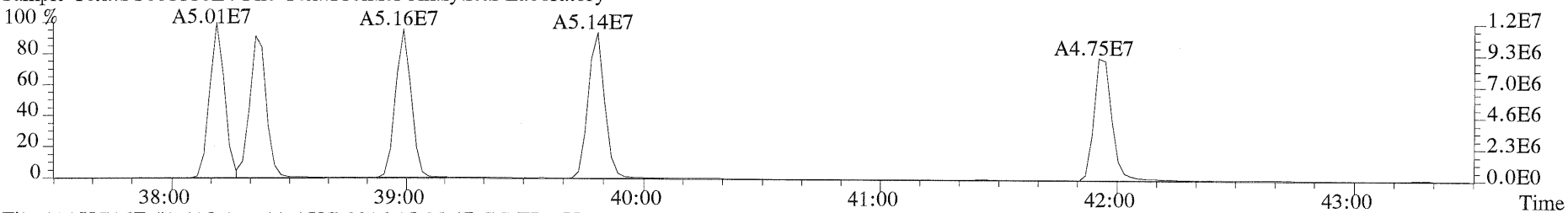
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



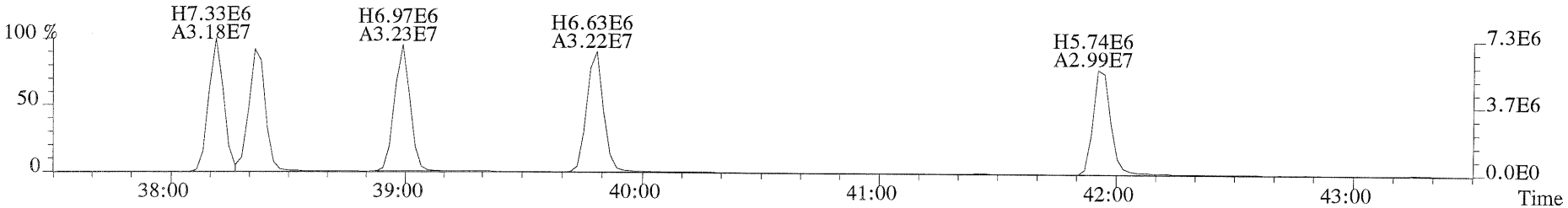
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



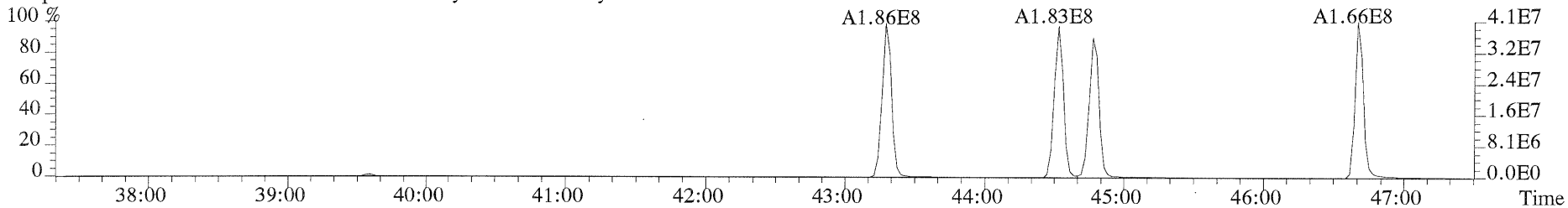
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



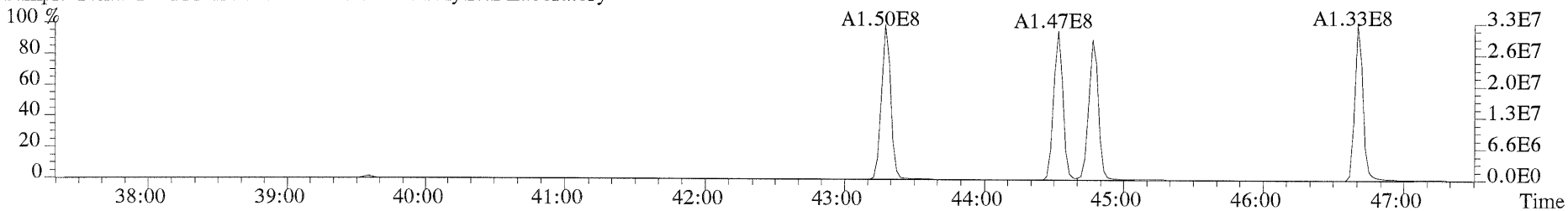
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



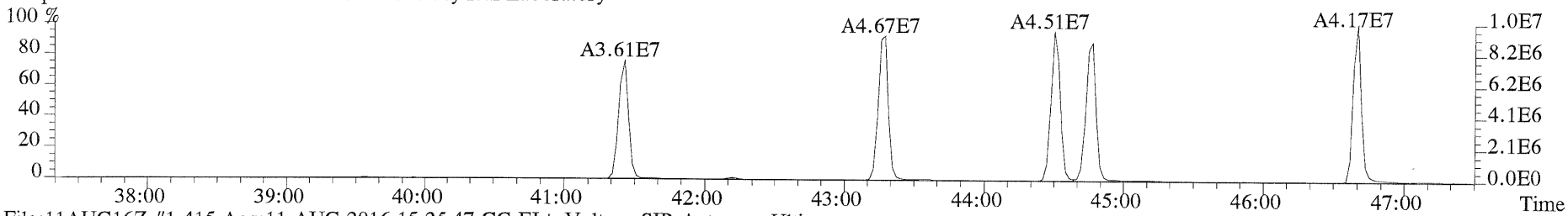
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



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
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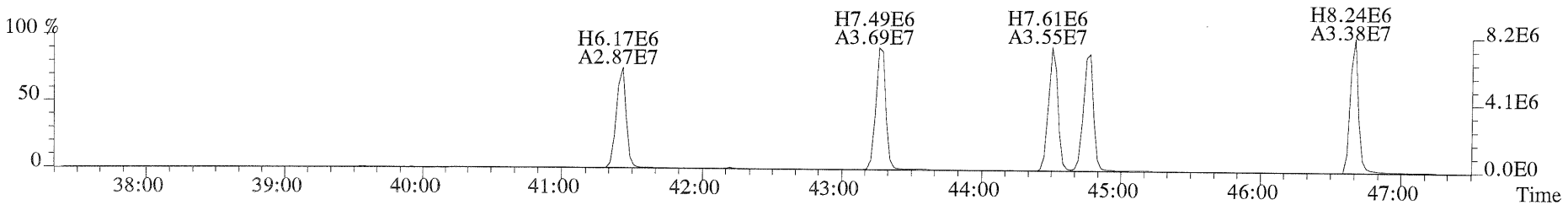
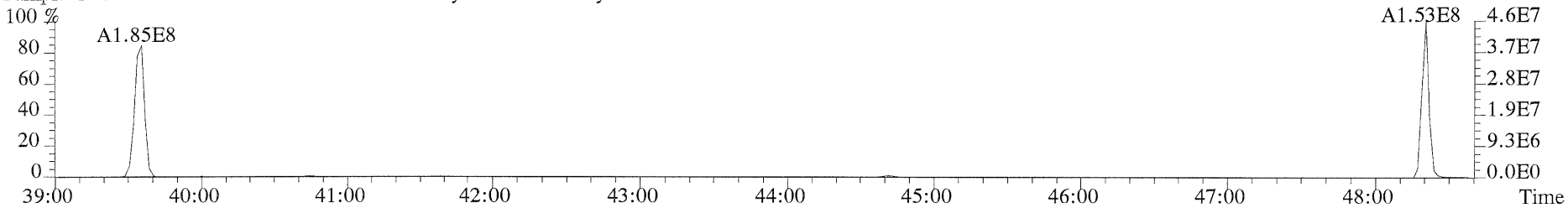
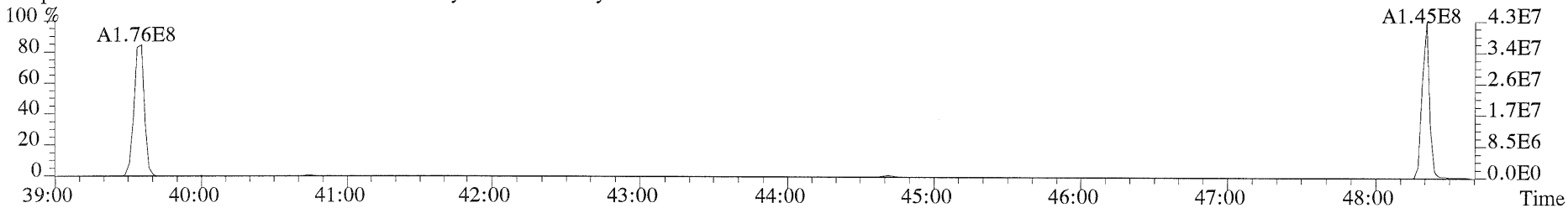
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



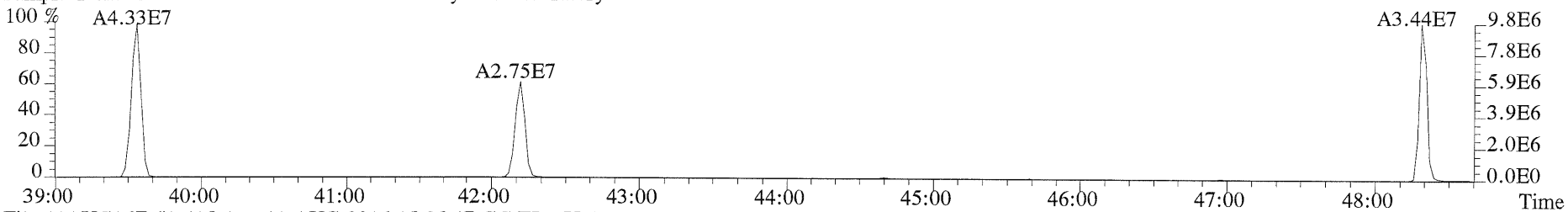
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



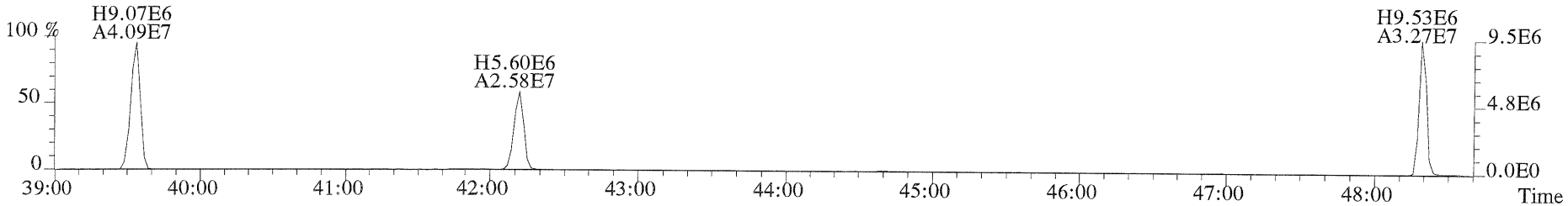
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



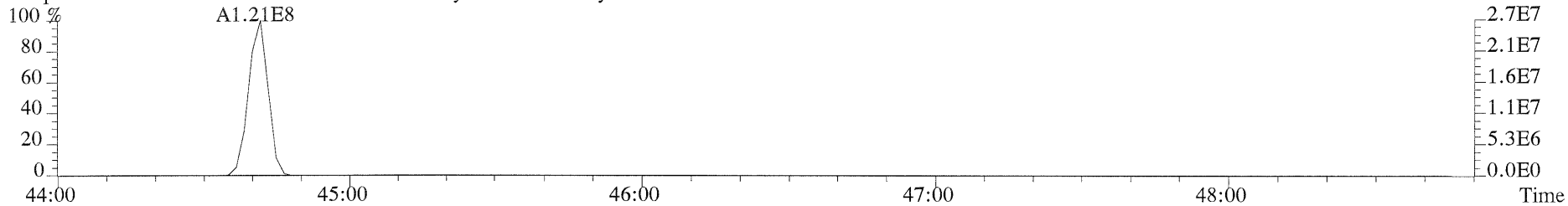
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



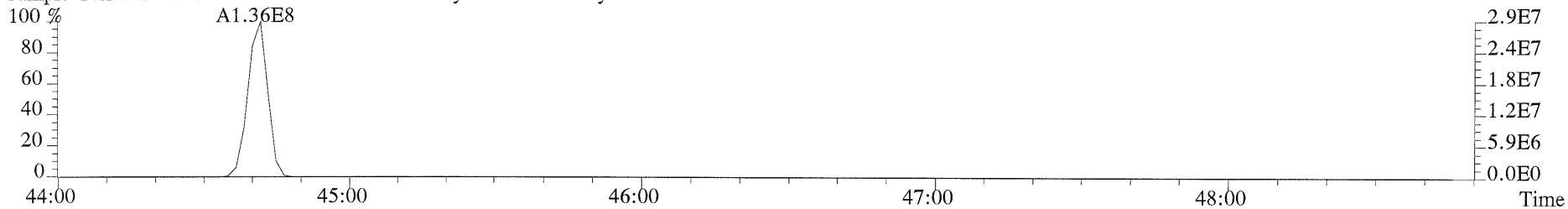
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



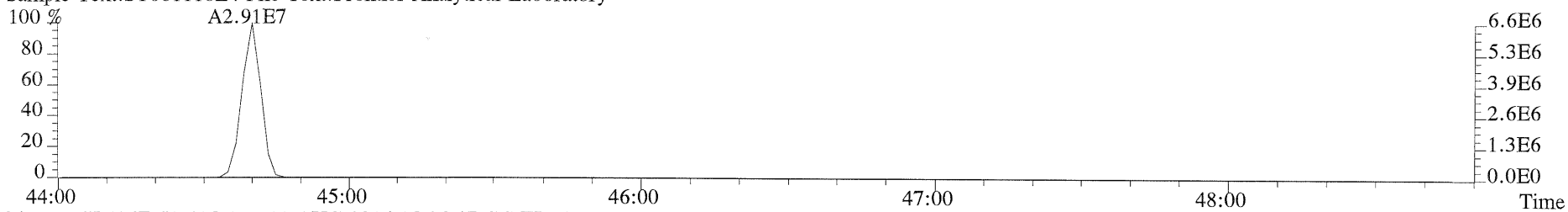
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



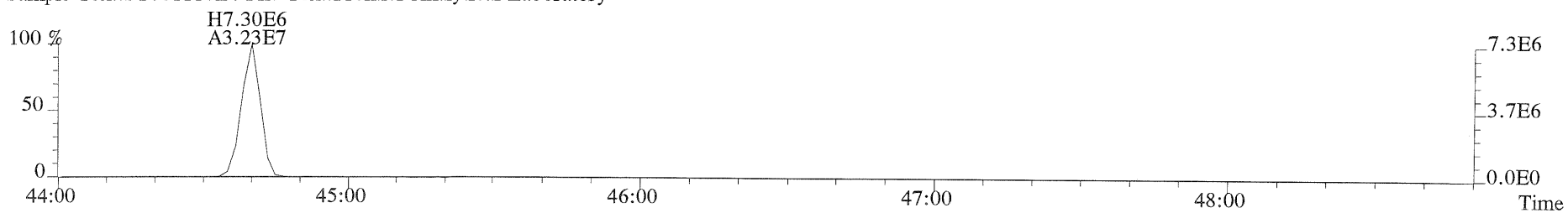
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



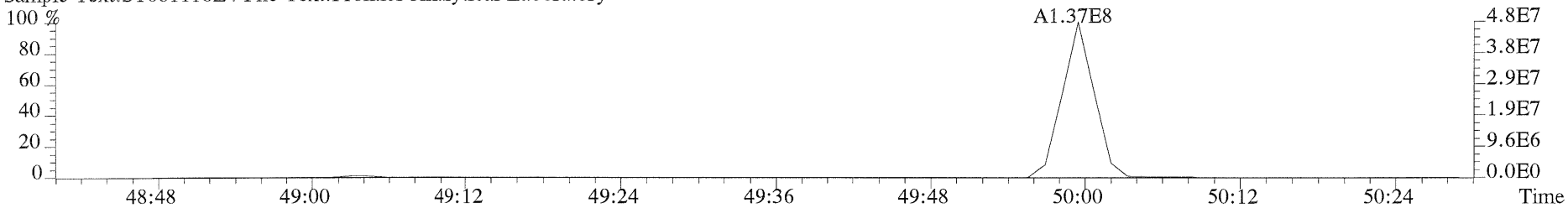
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



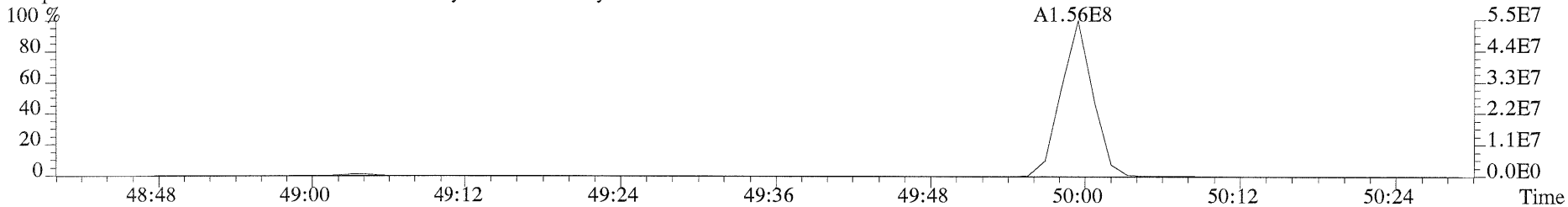
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



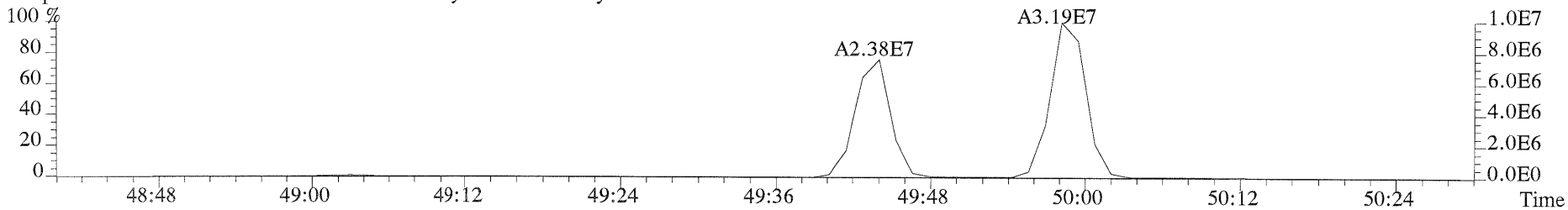
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



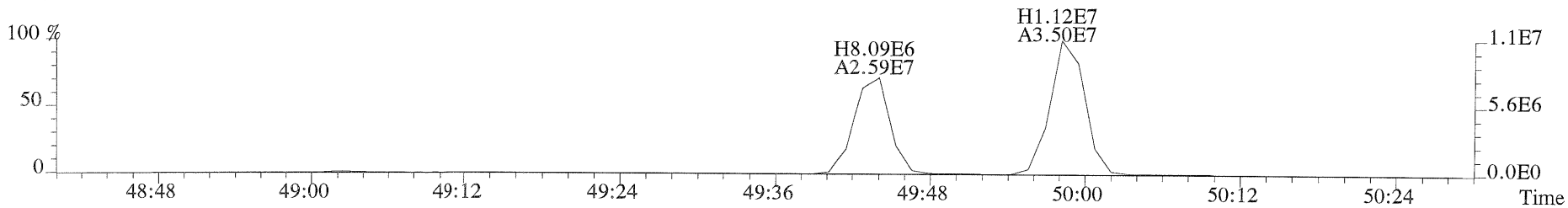
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



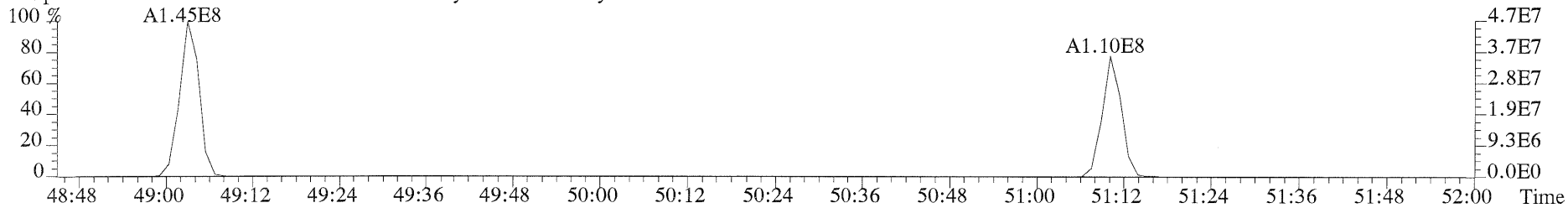
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



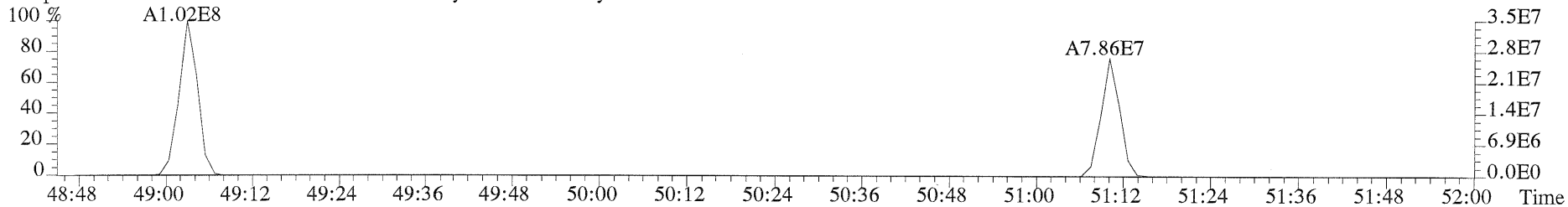
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



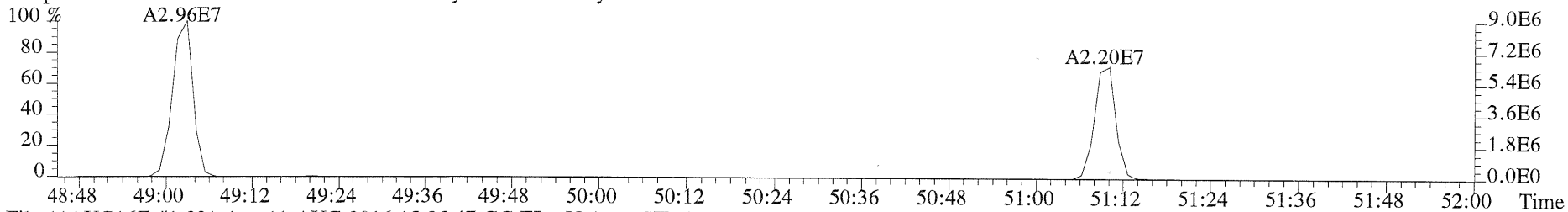
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



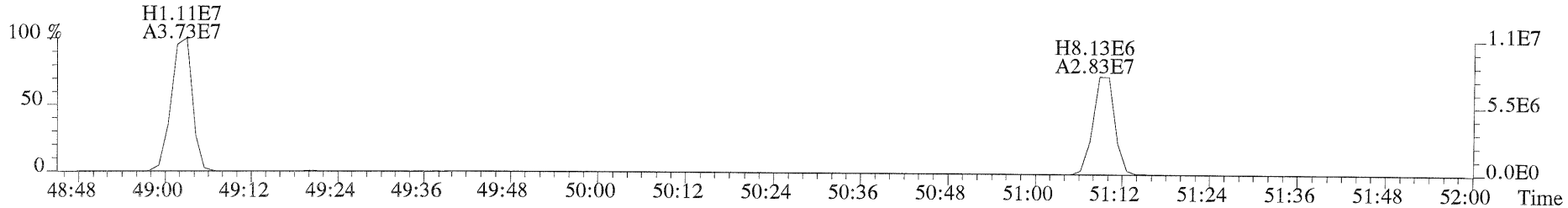
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



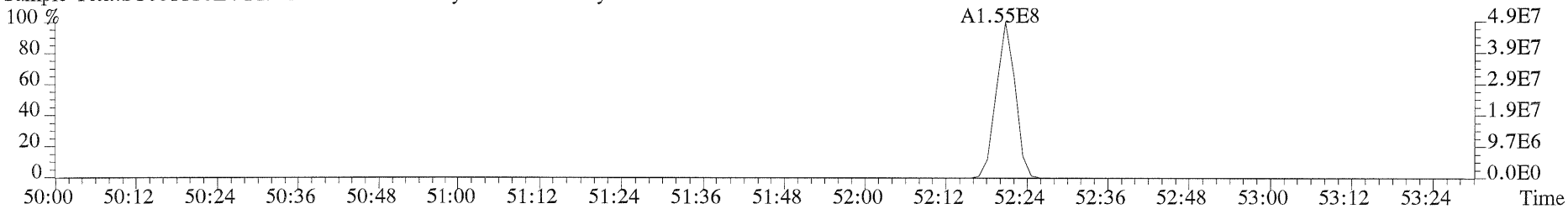
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



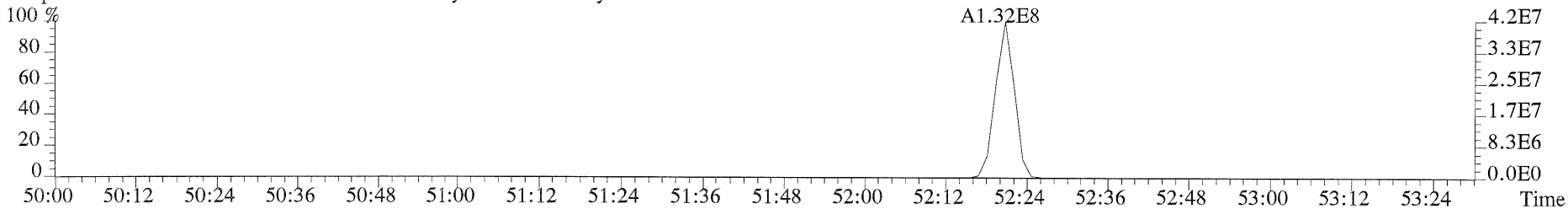
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



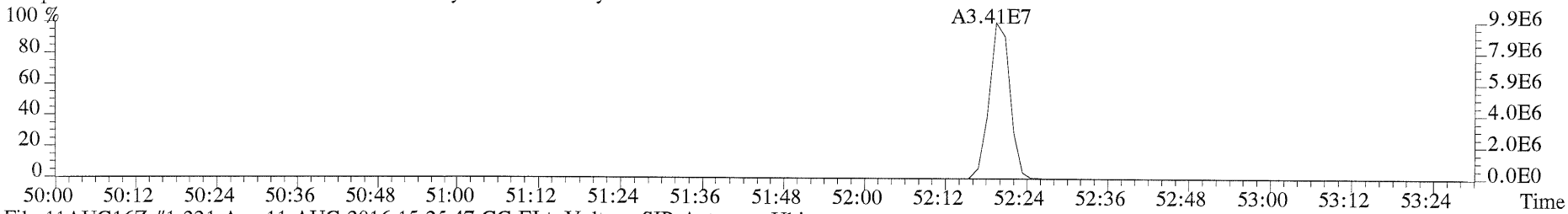
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



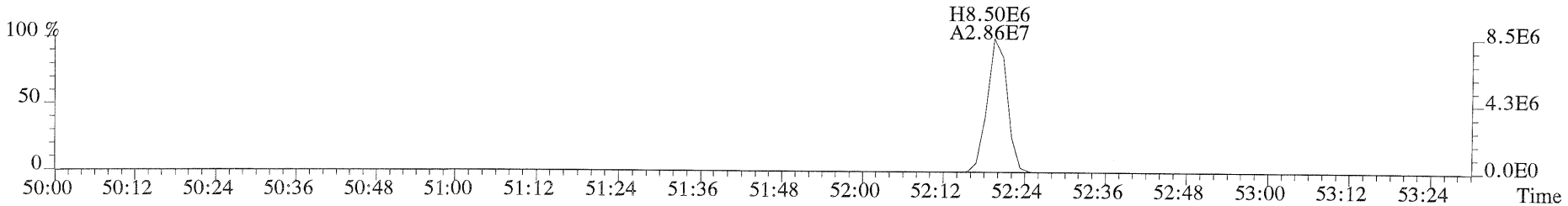
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



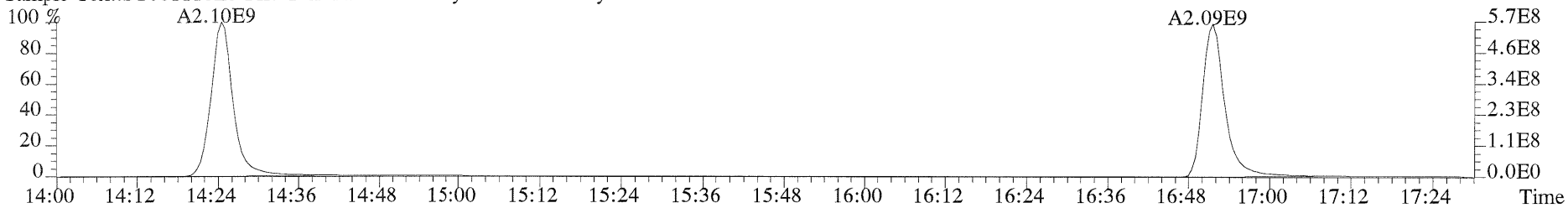
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



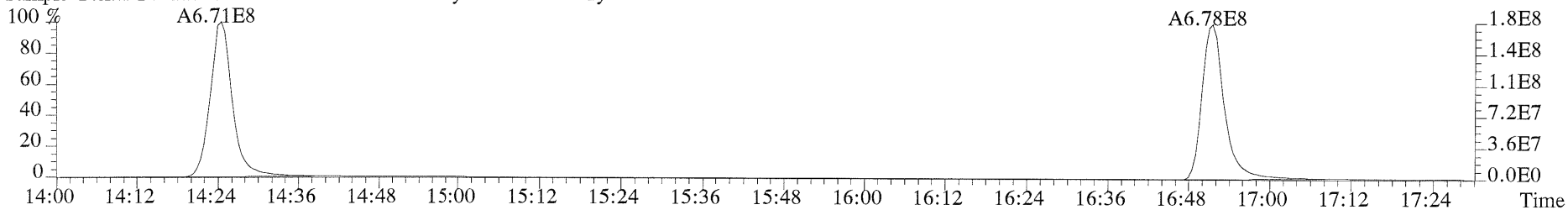
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



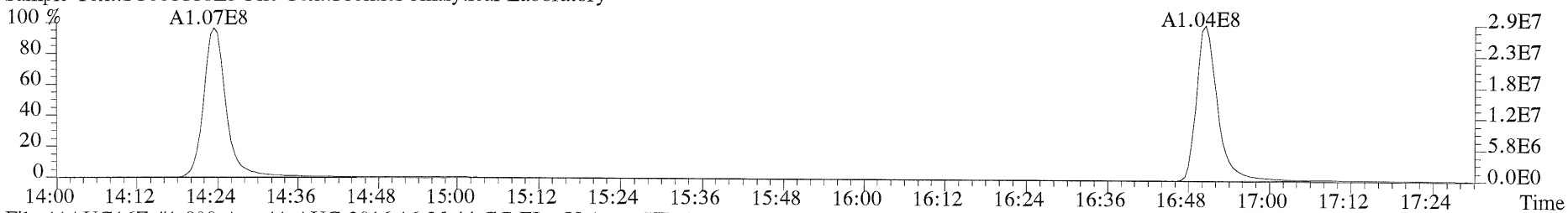
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



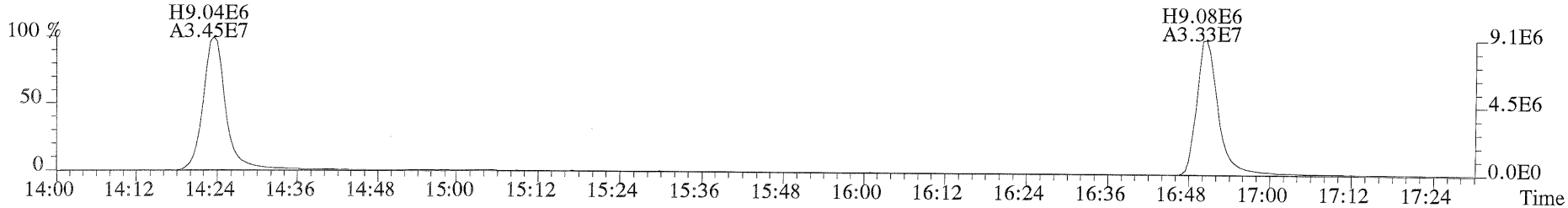
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



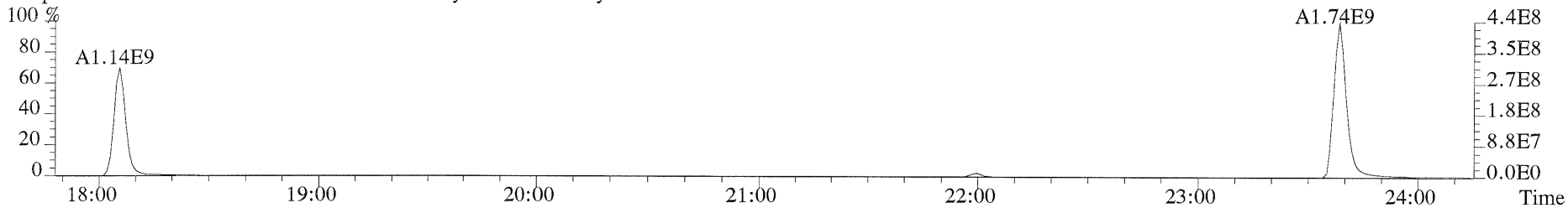
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



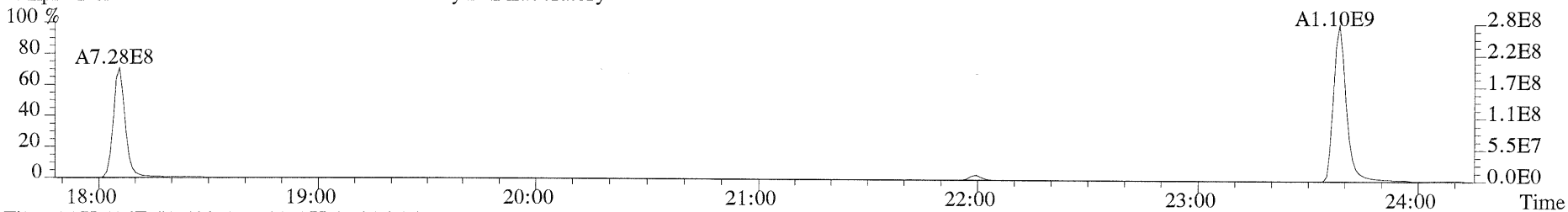
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



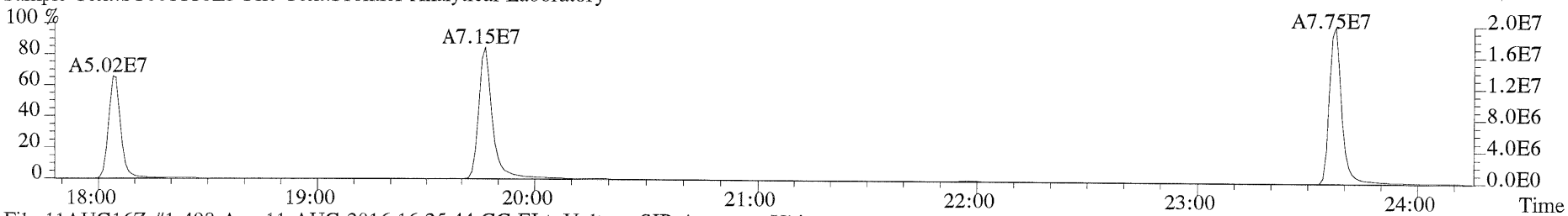
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



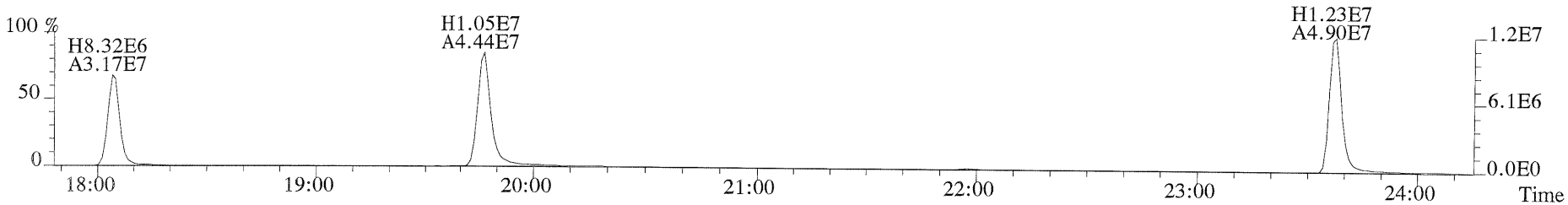
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



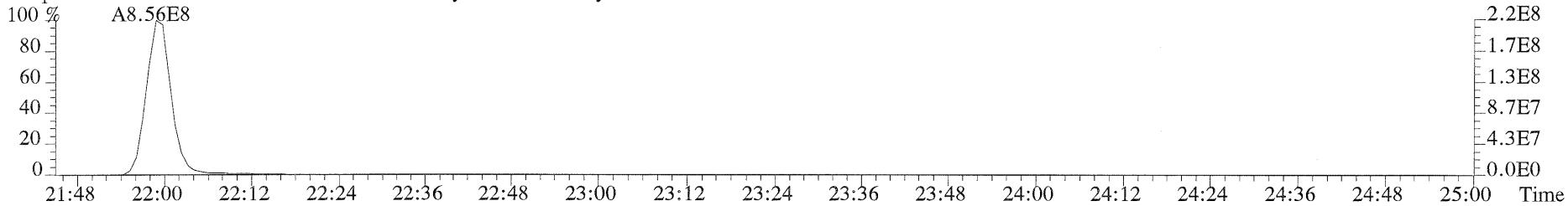
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



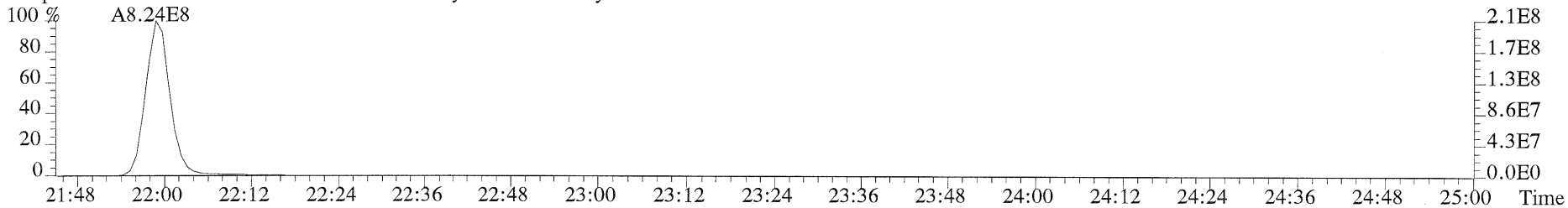
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



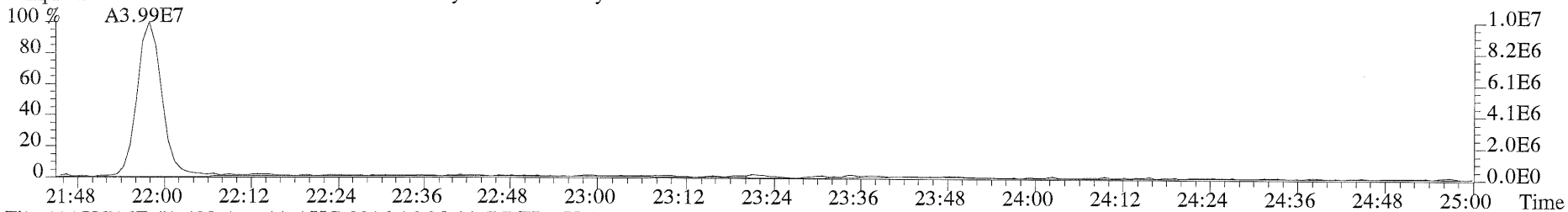
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



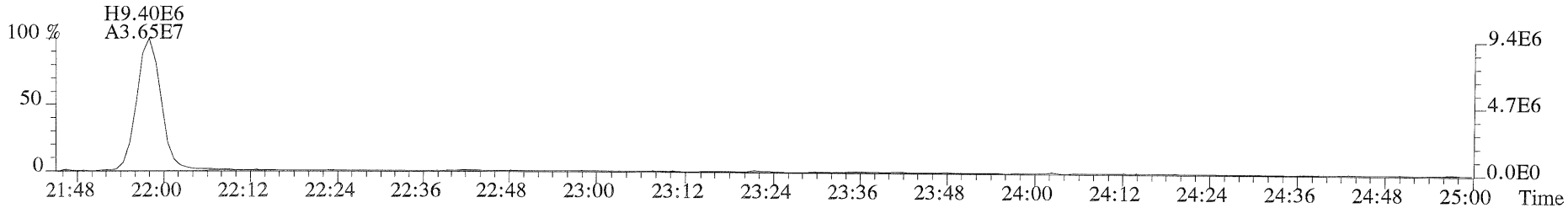
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



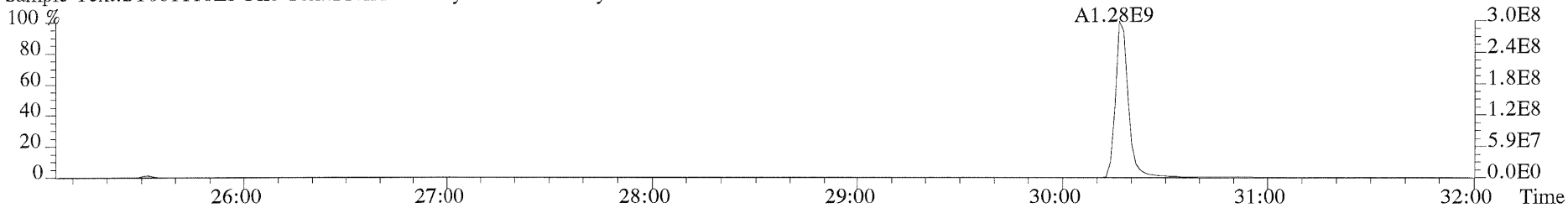
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



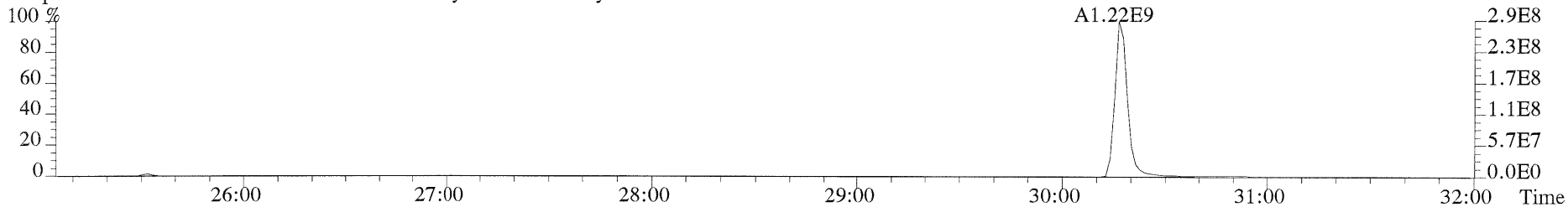
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



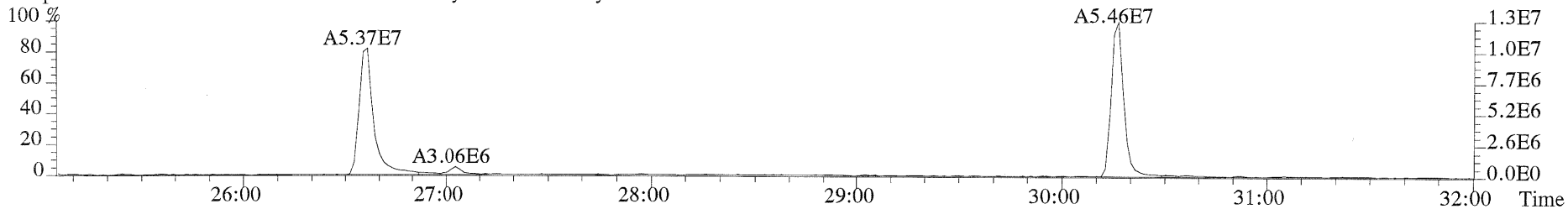
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



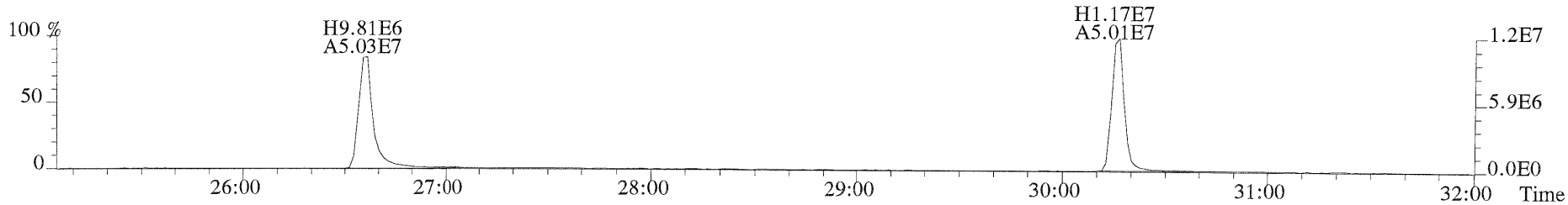
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



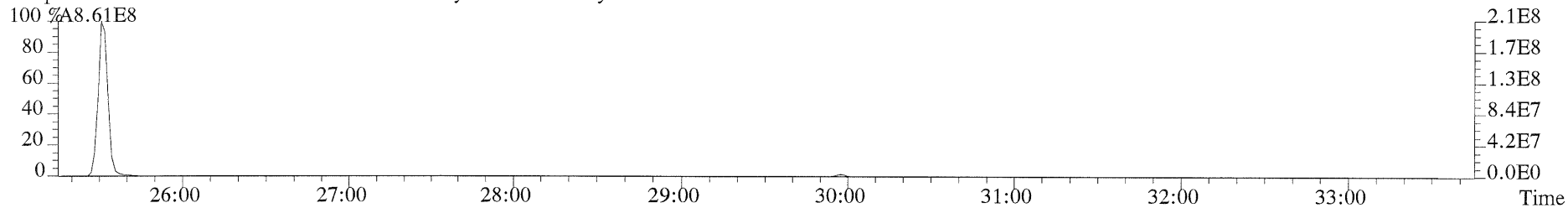
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



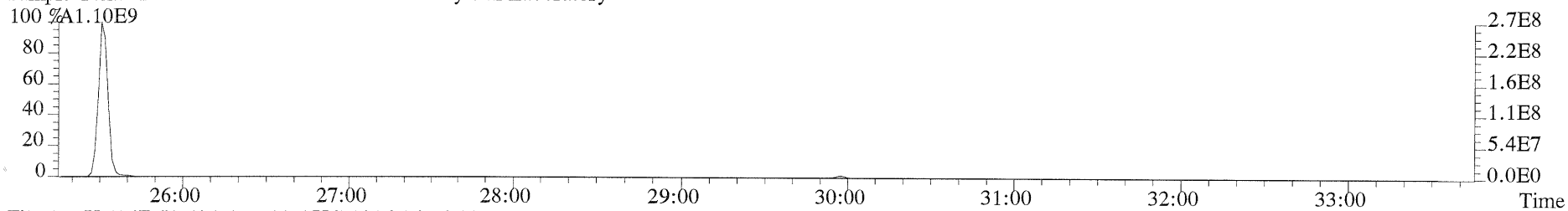
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



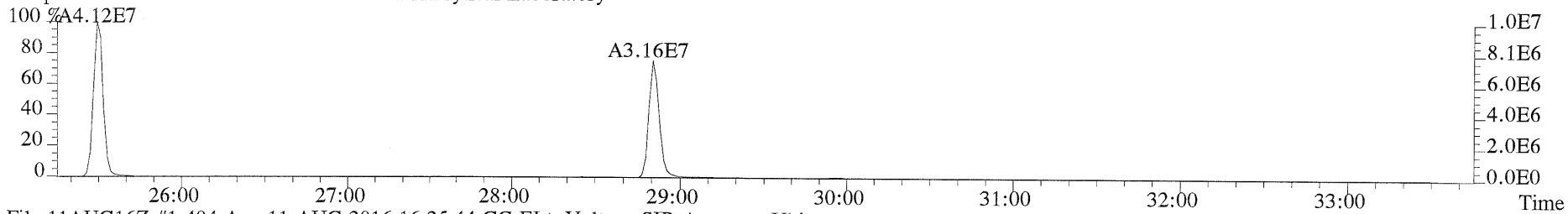
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



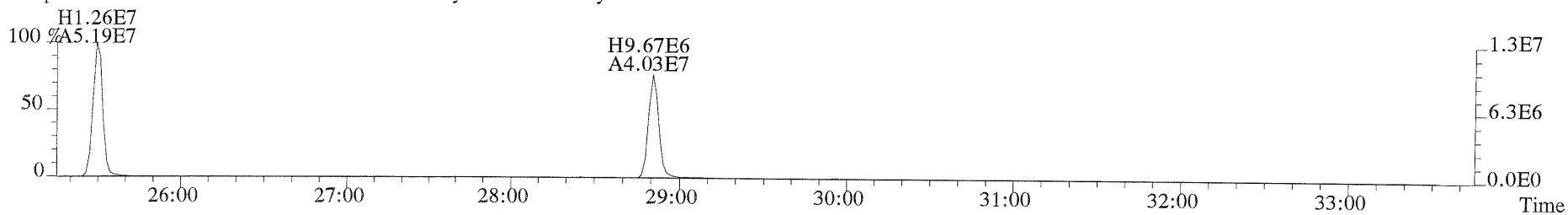
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



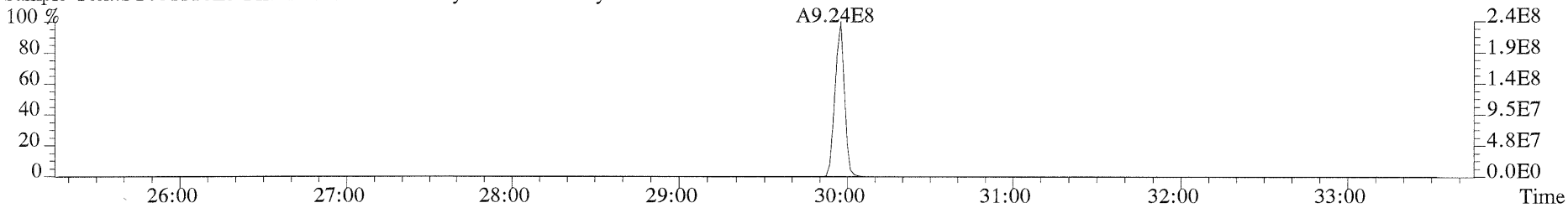
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



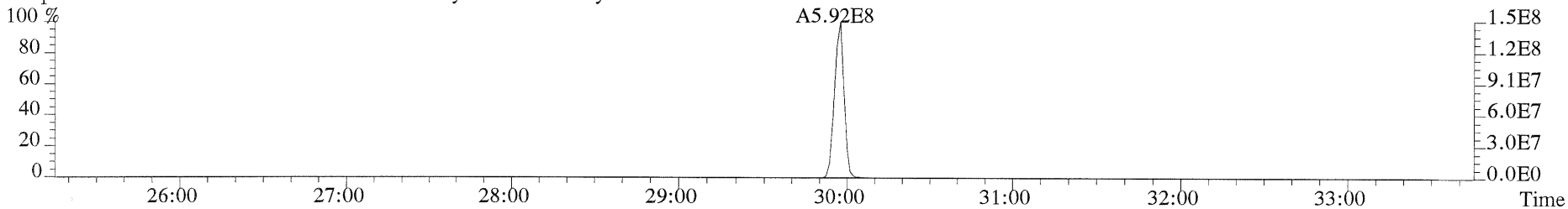
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



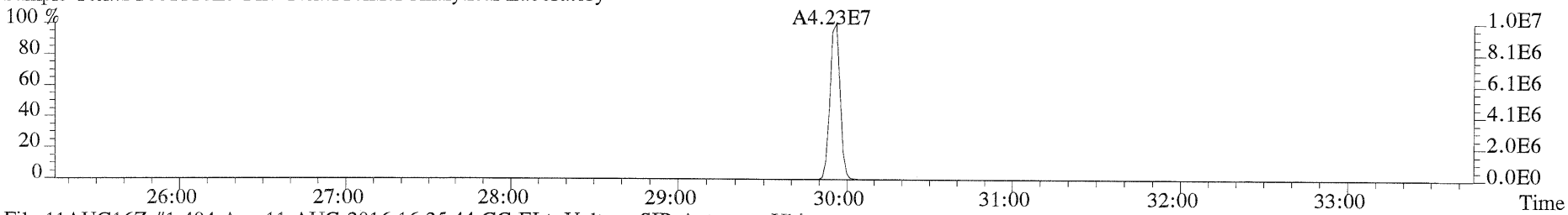
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



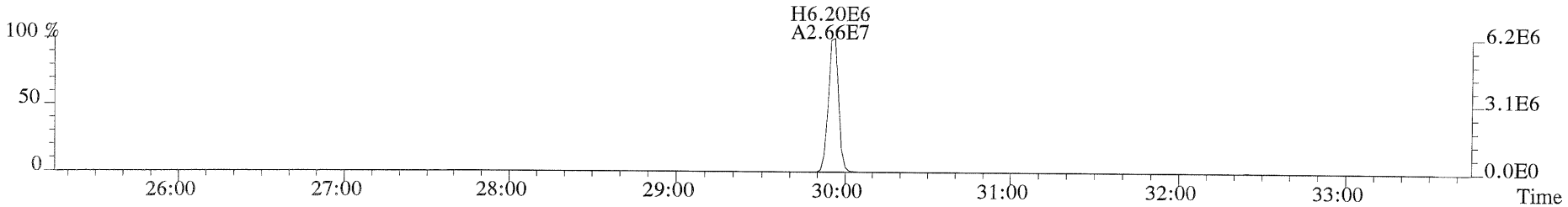
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



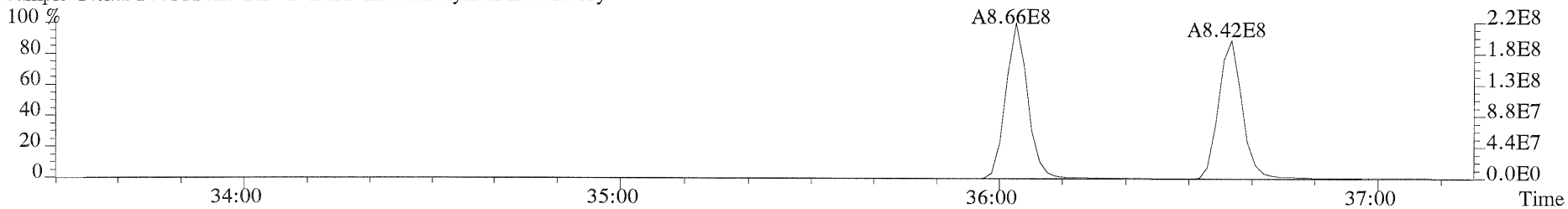
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



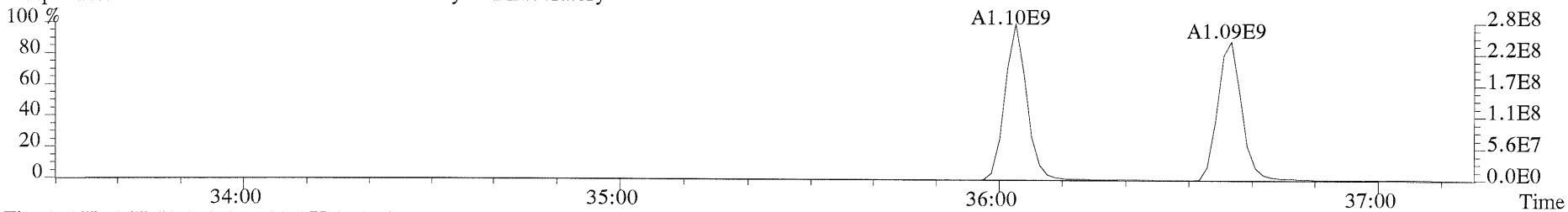
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



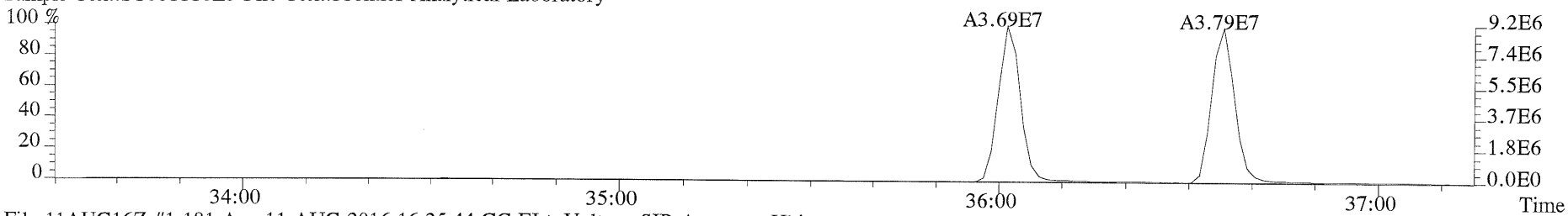
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



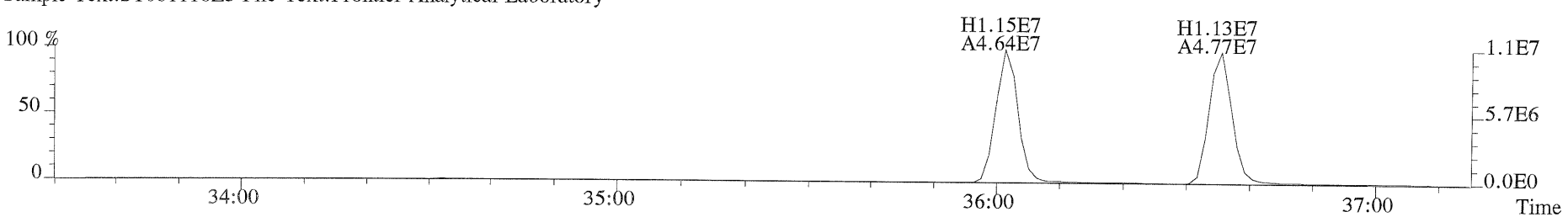
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



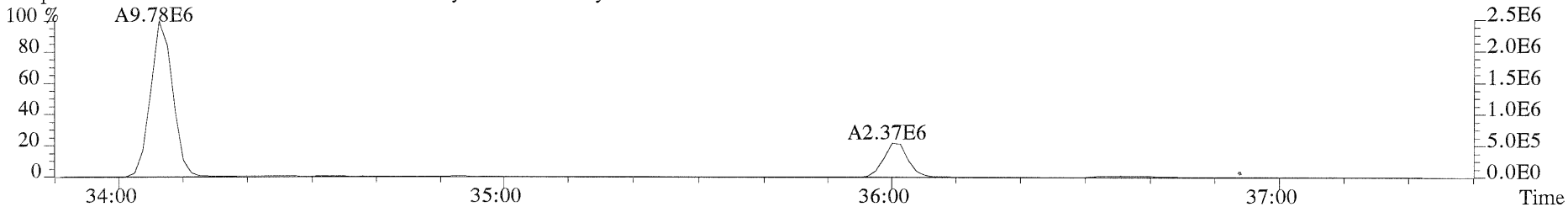
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



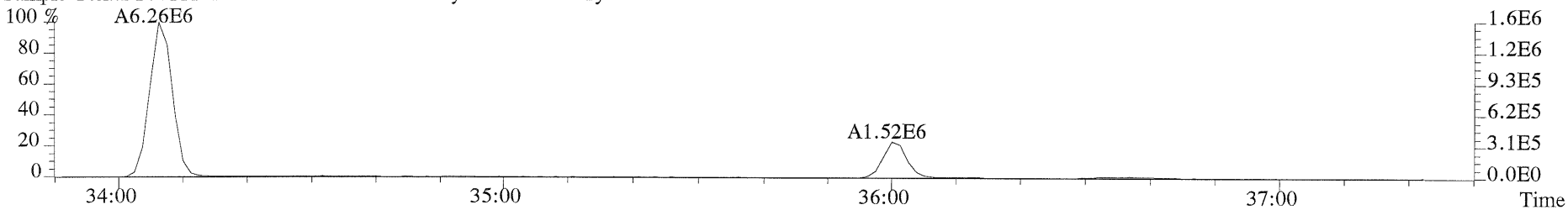
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



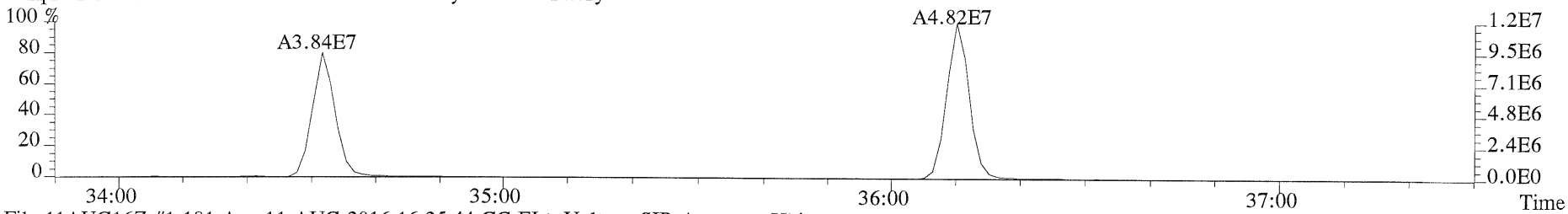
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



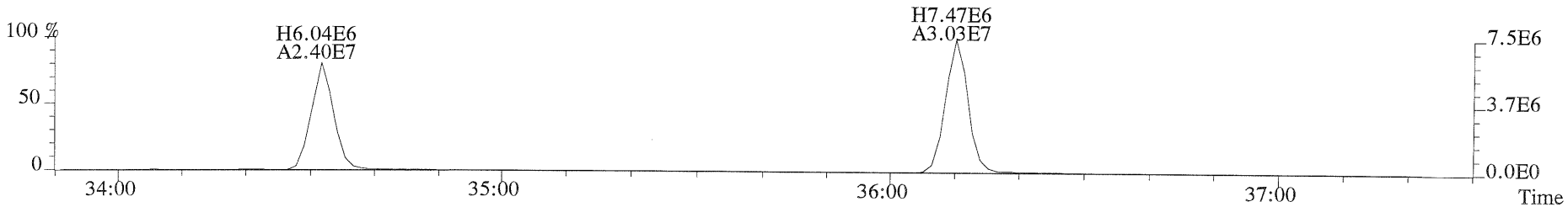
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



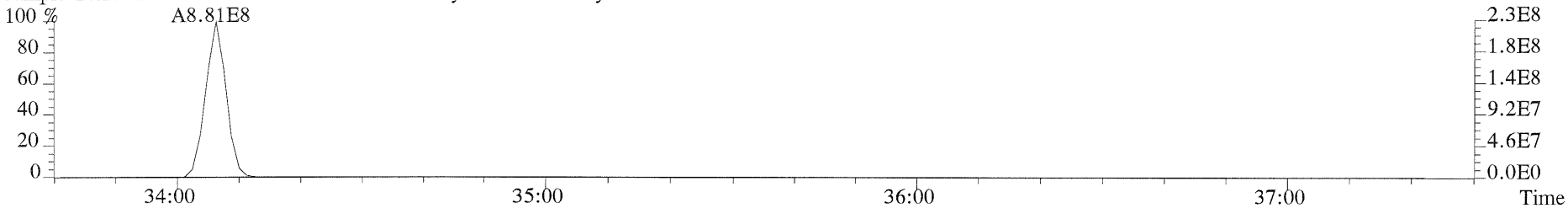
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



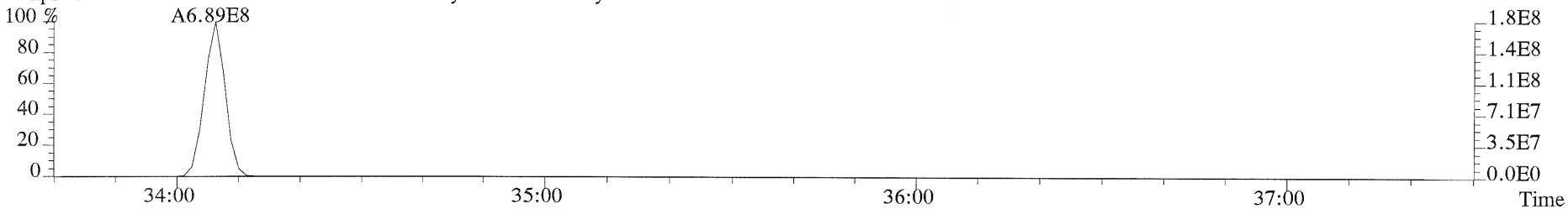
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



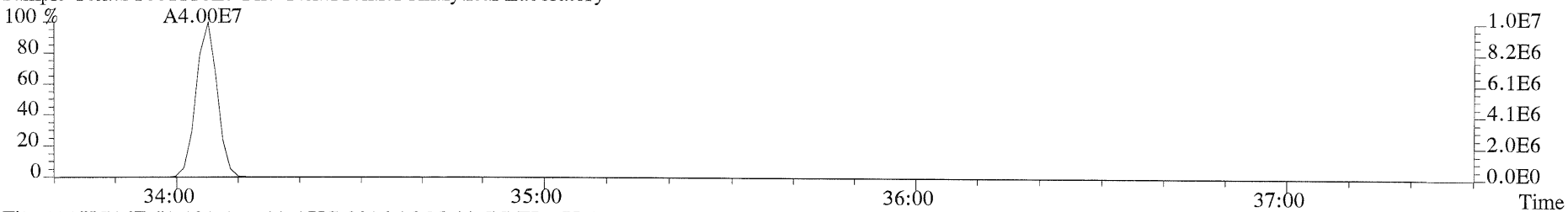
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



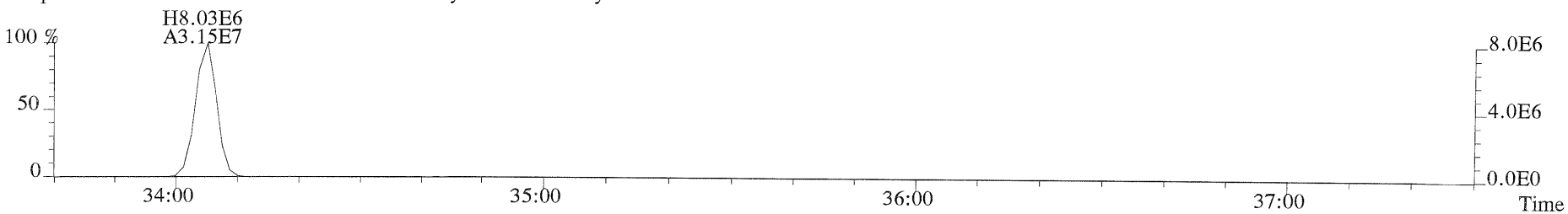
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



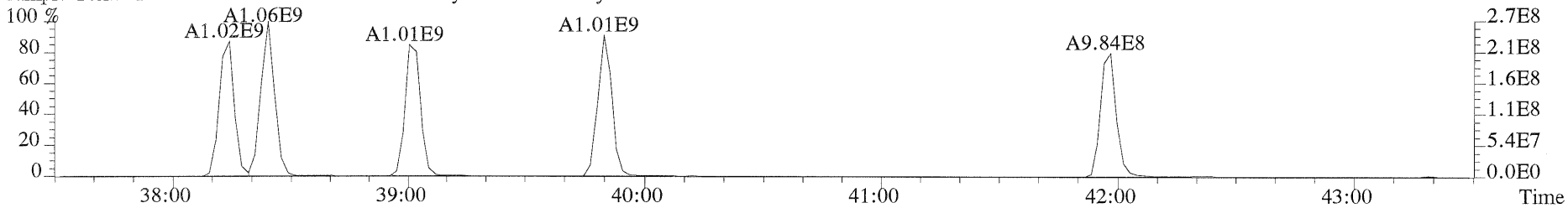
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



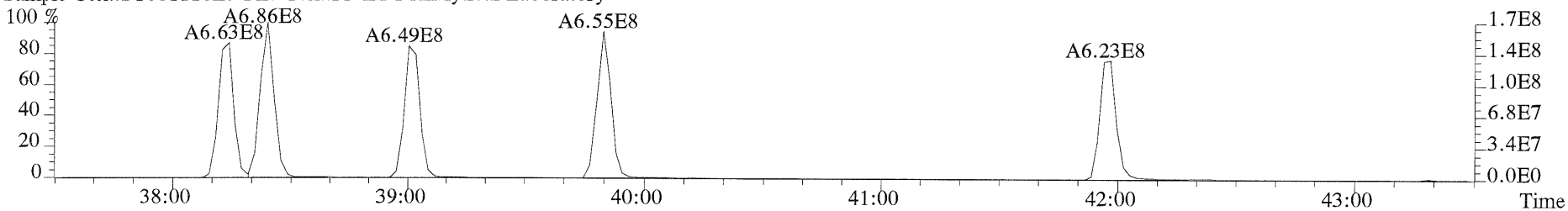
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



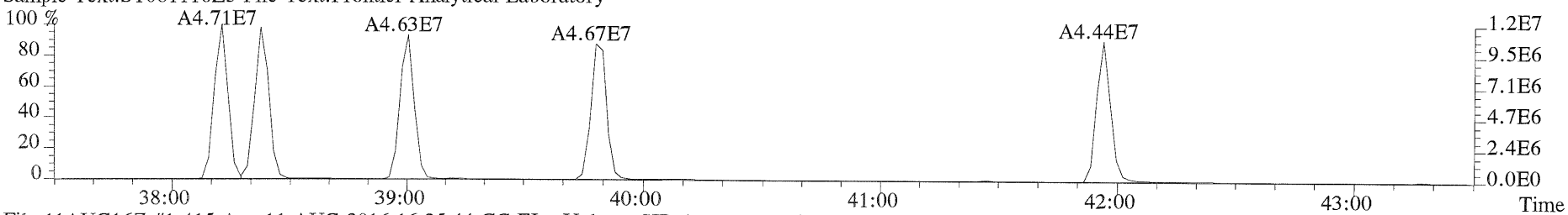
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



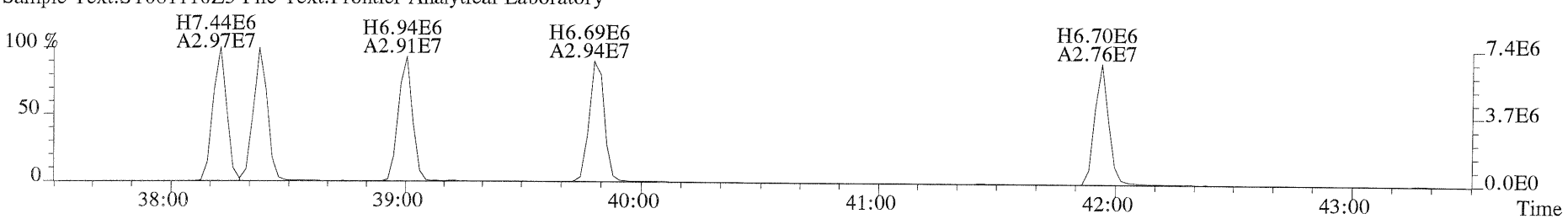
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



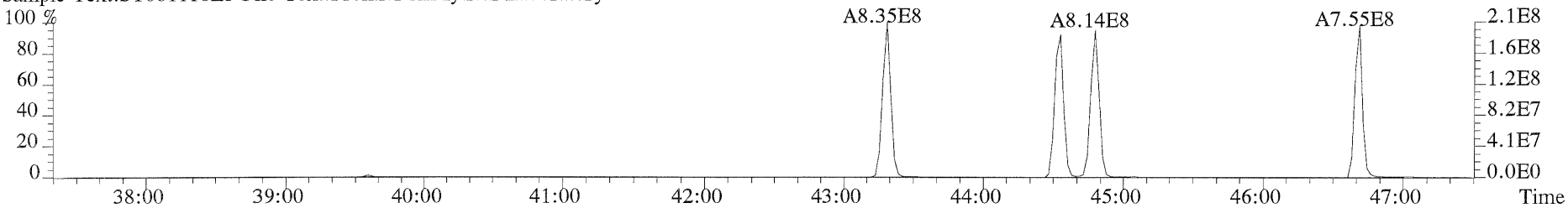
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



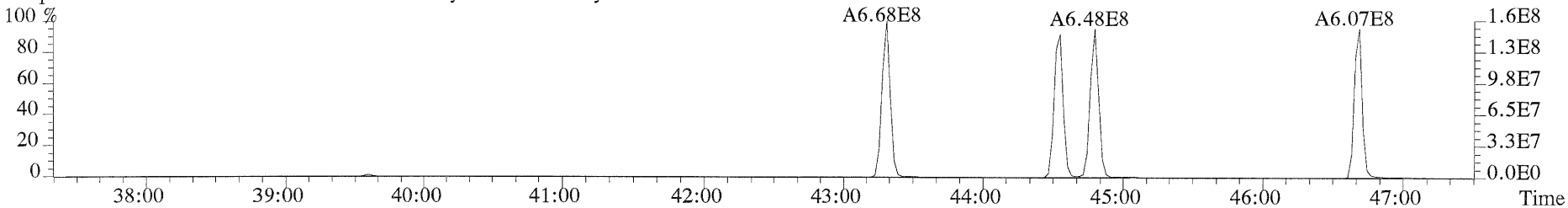
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



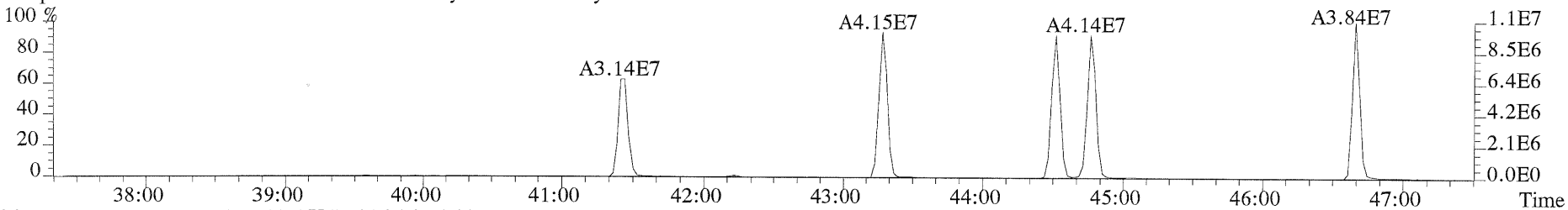
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



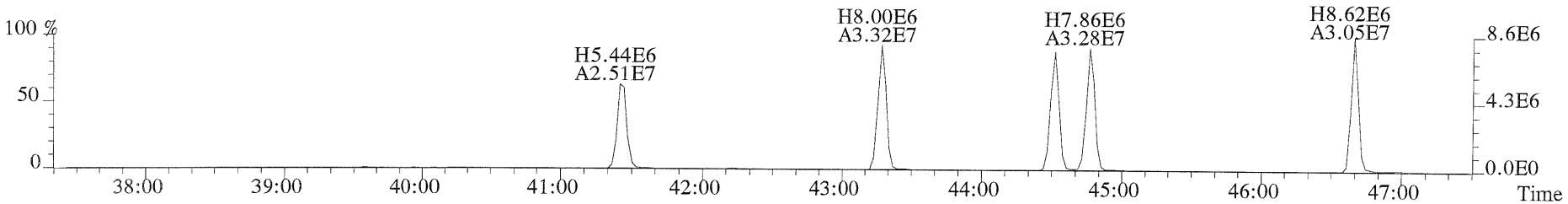
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



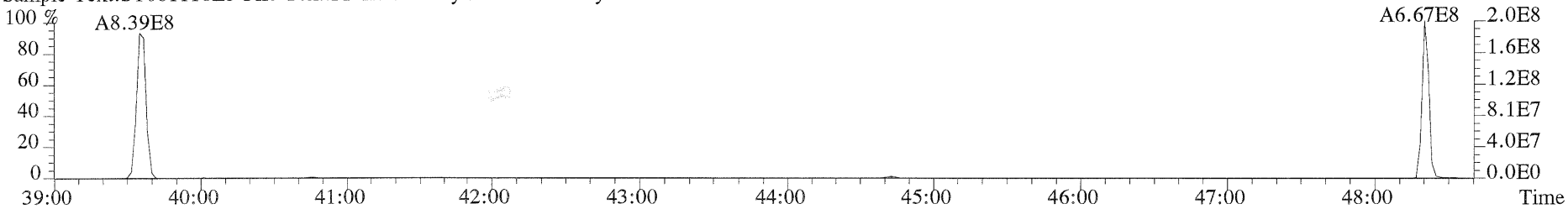
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



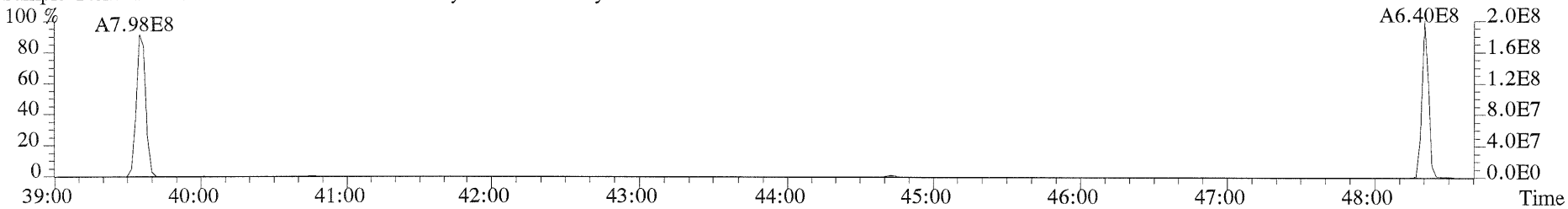
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



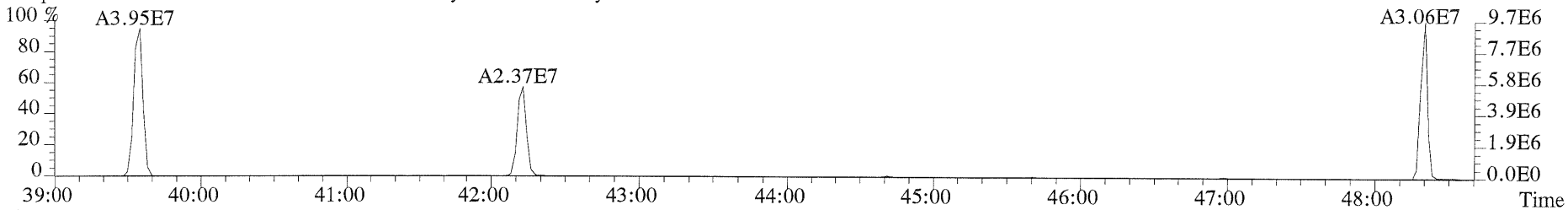
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



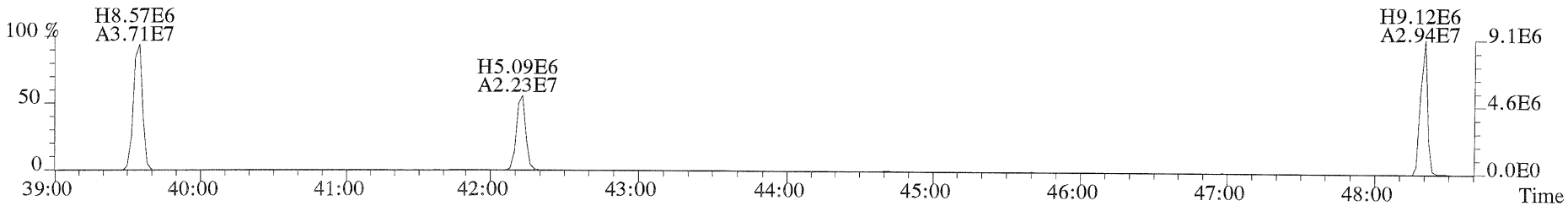
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



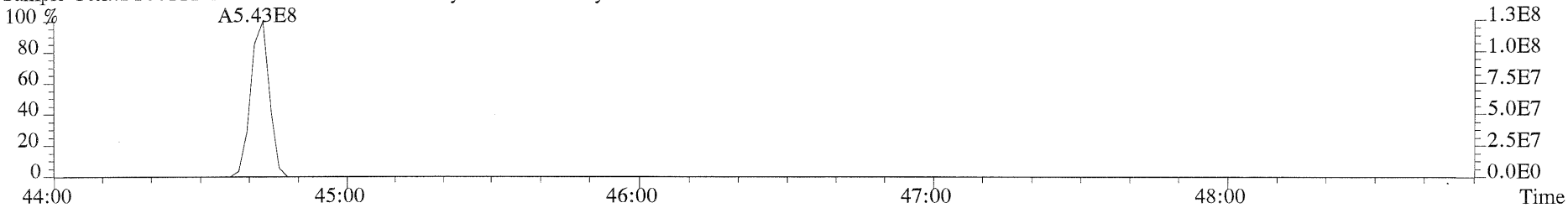
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



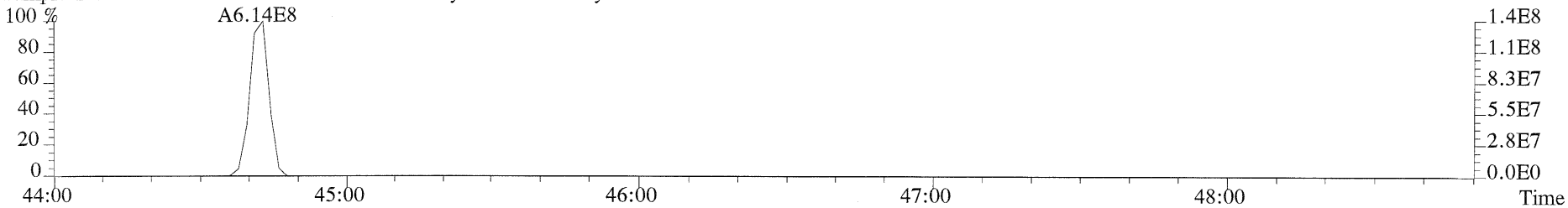
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



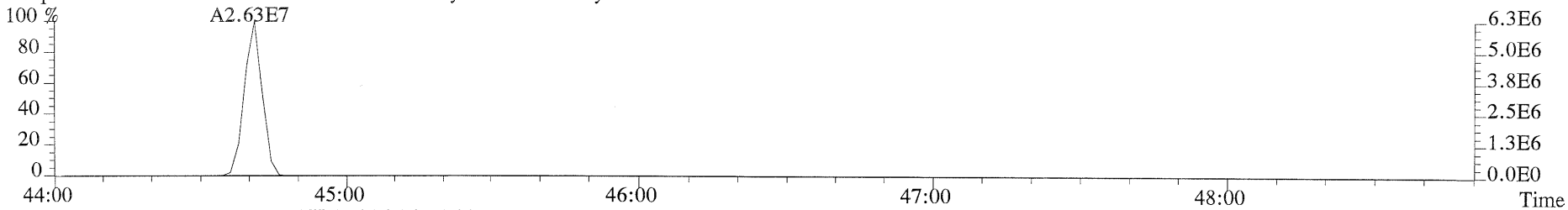
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



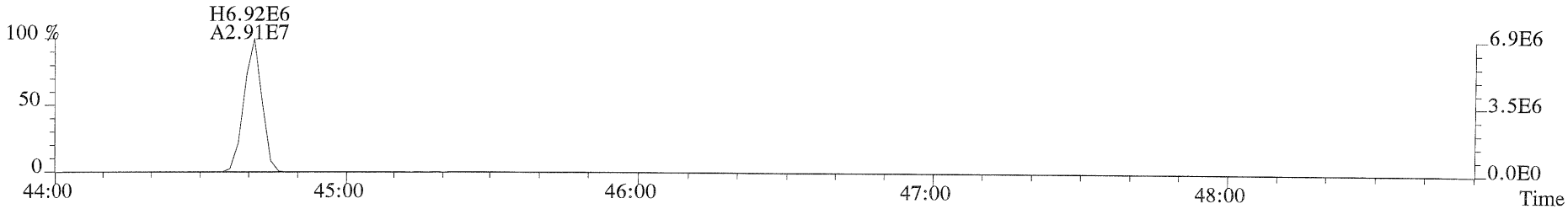
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



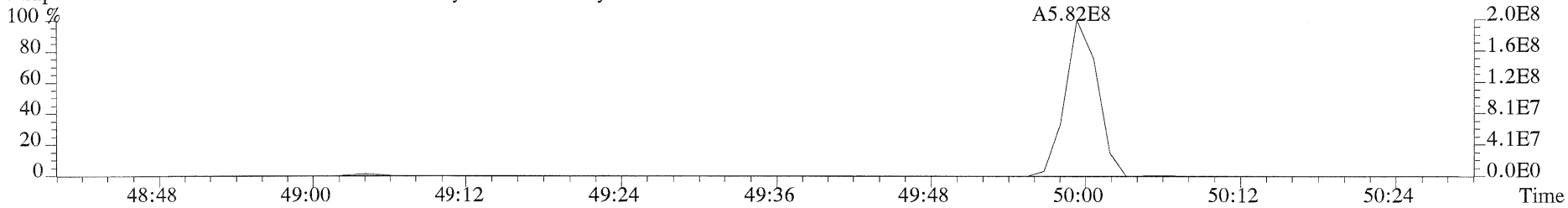
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



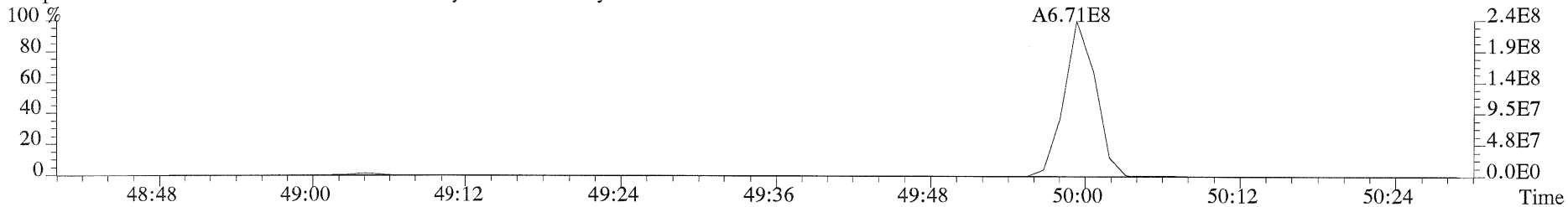
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



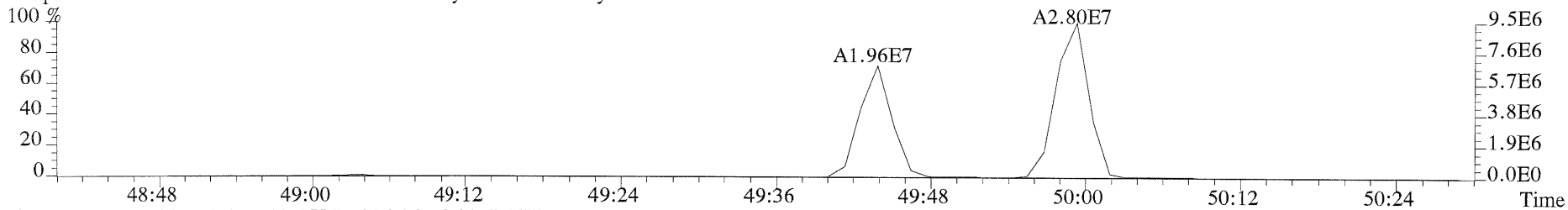
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



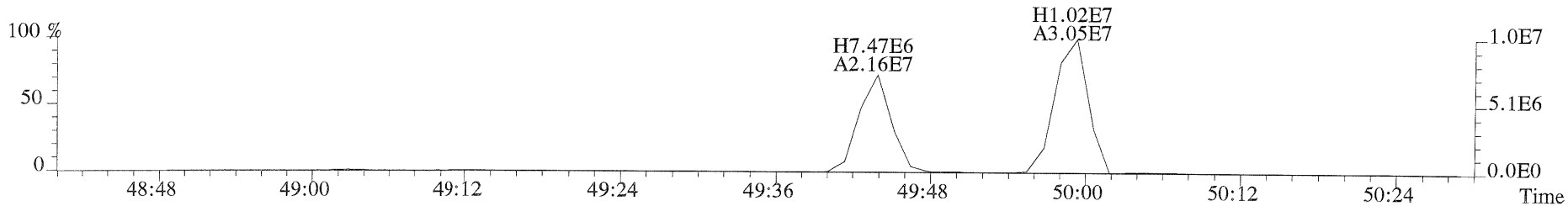
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



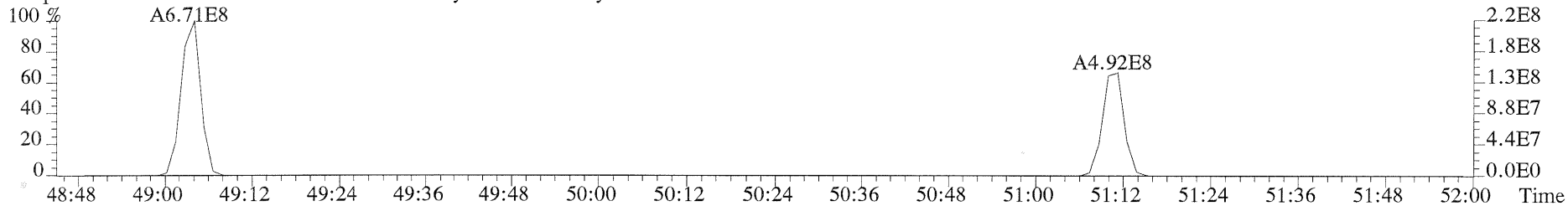
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



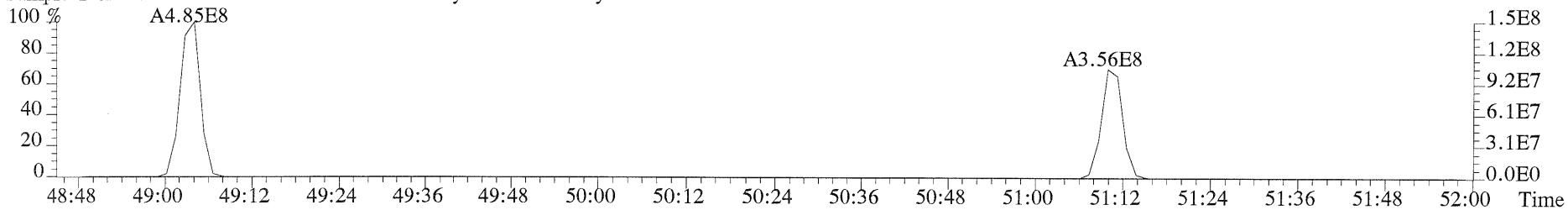
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



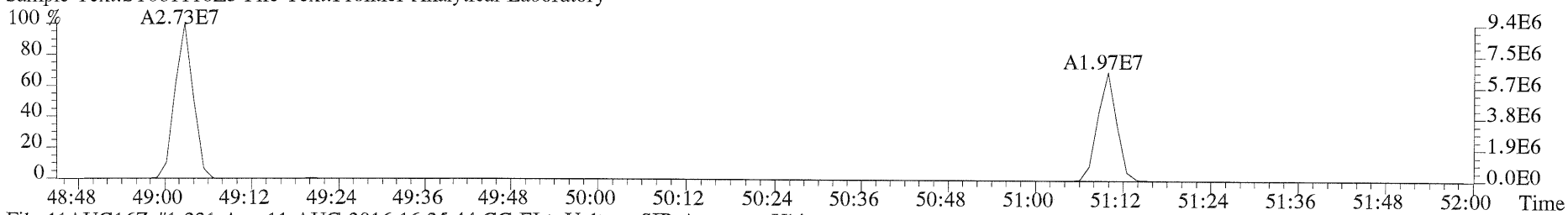
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



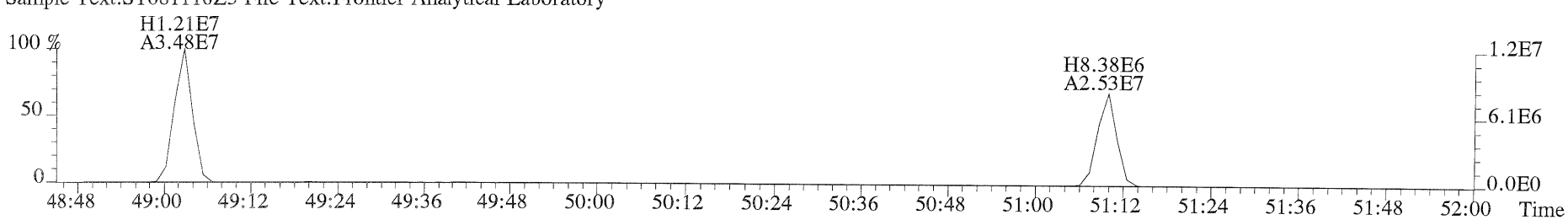
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



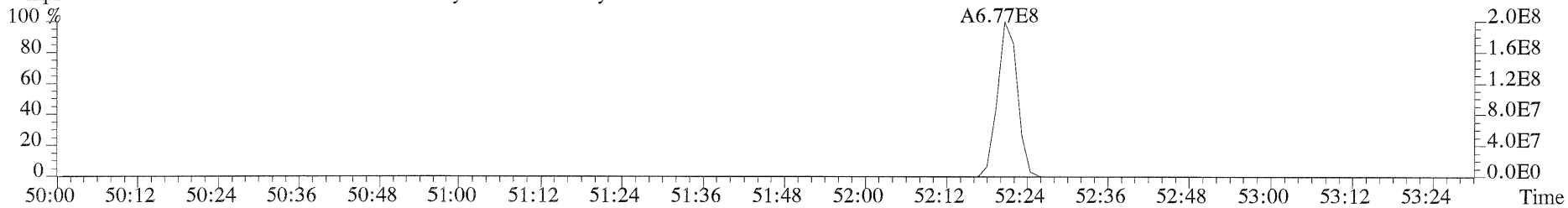
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



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



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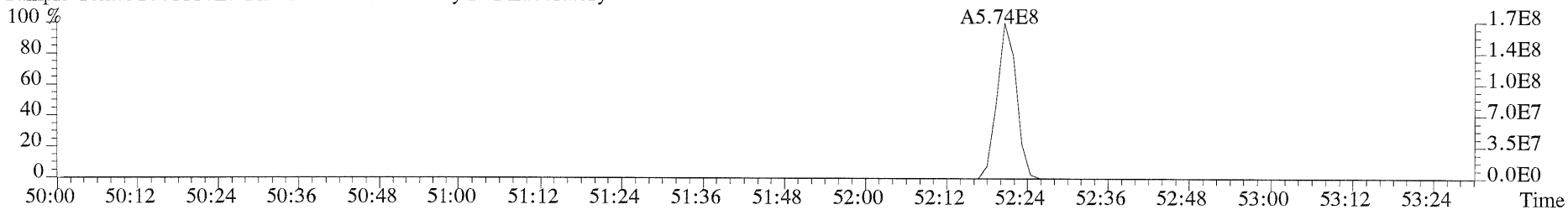
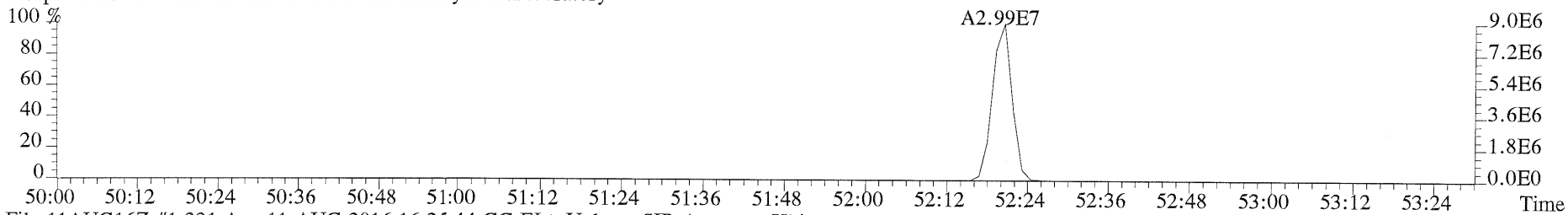
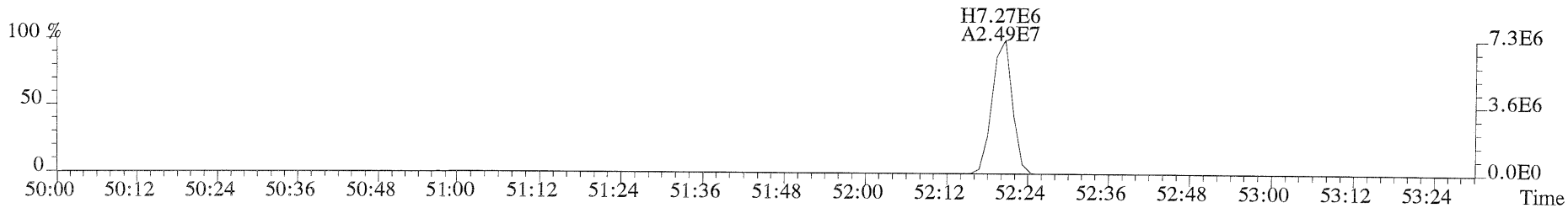
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



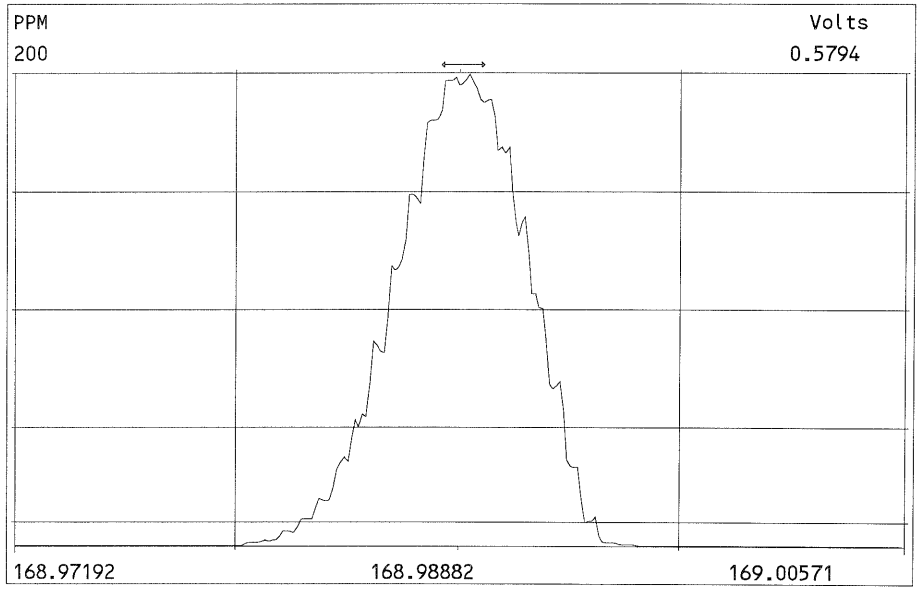
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory

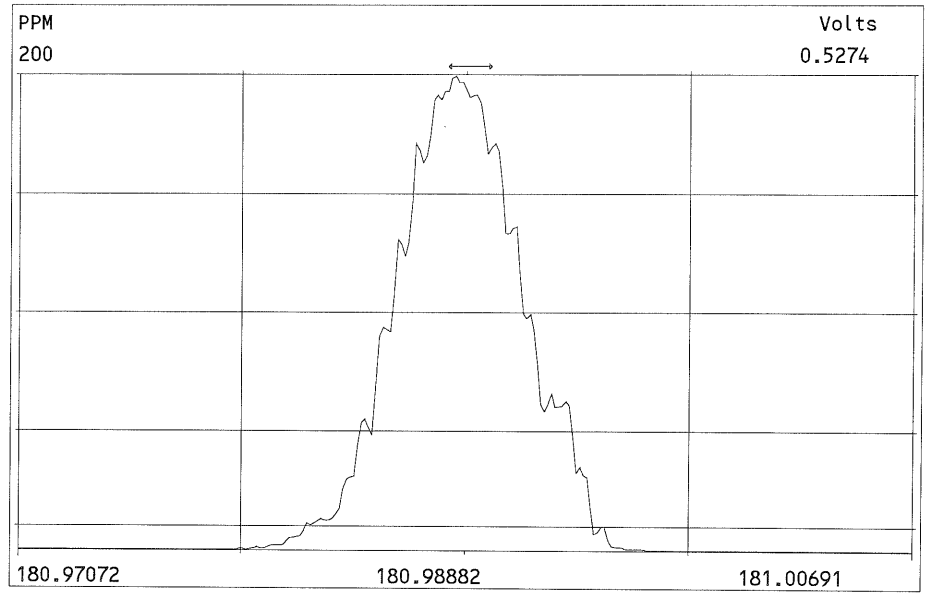


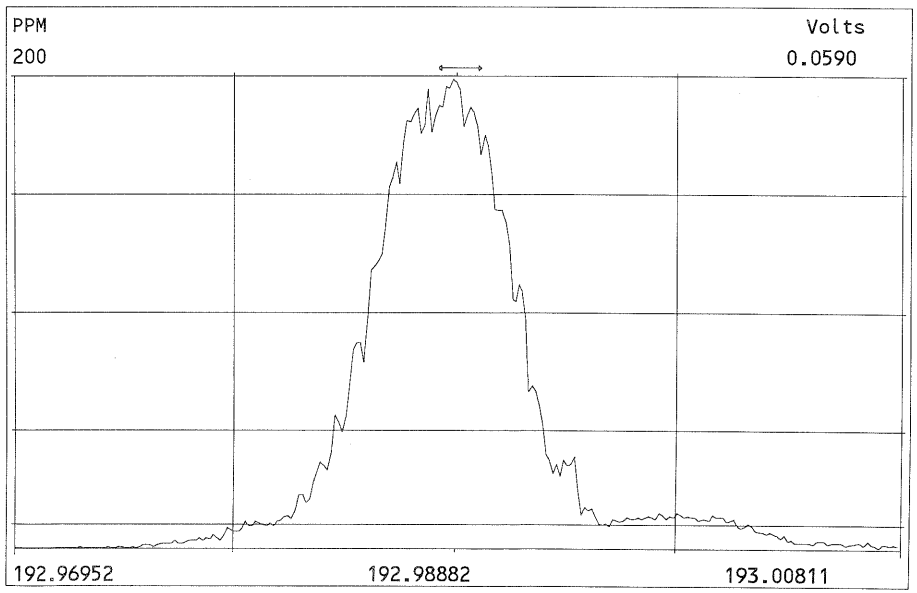
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory

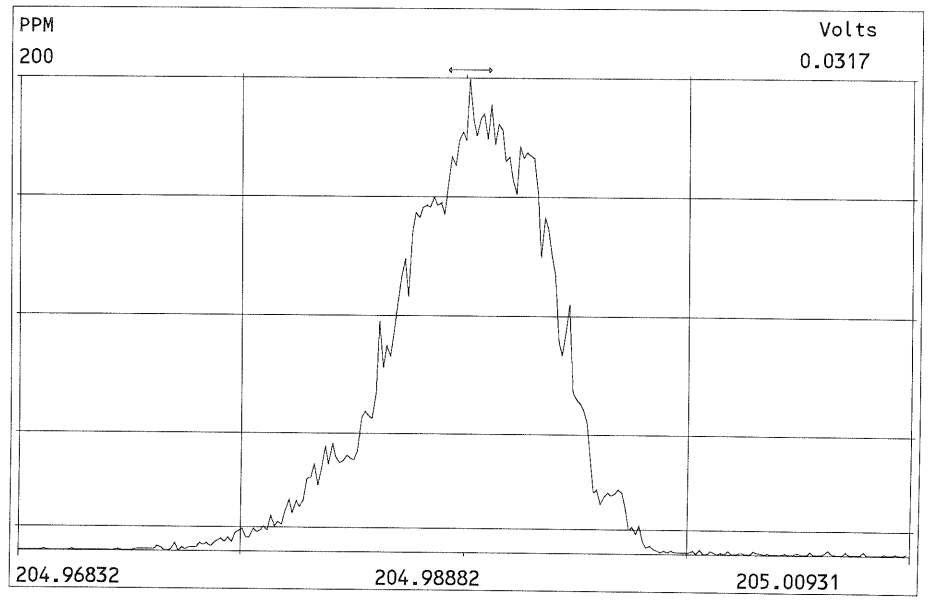


Peak Locate Examination:12-AUG-2016:07:42 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:1 Reference:PFK

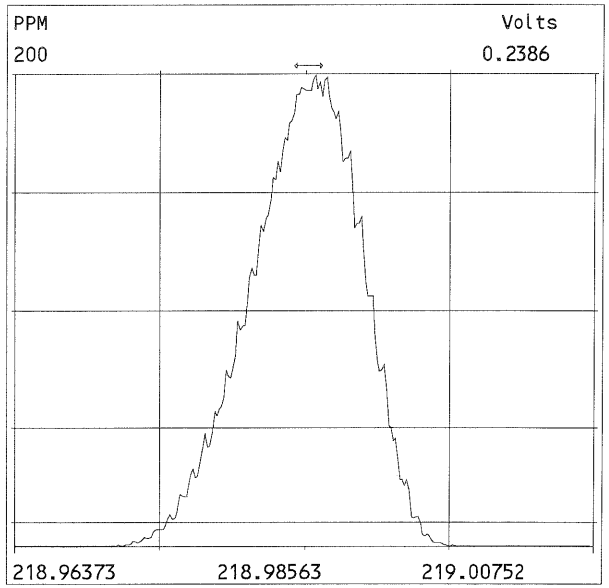


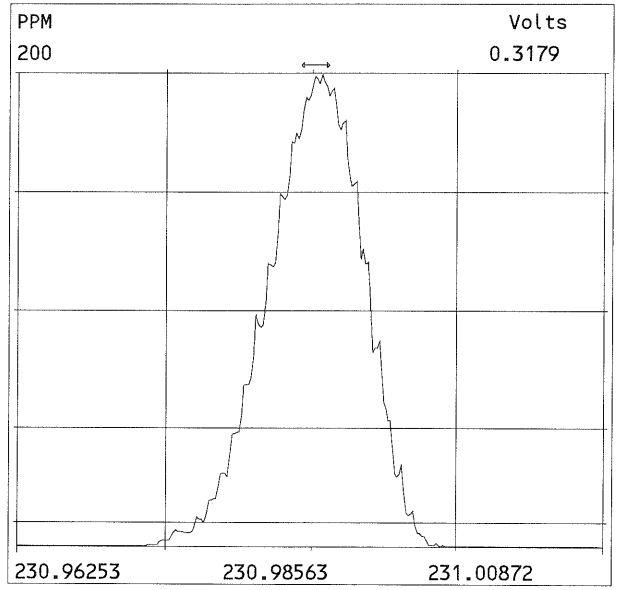


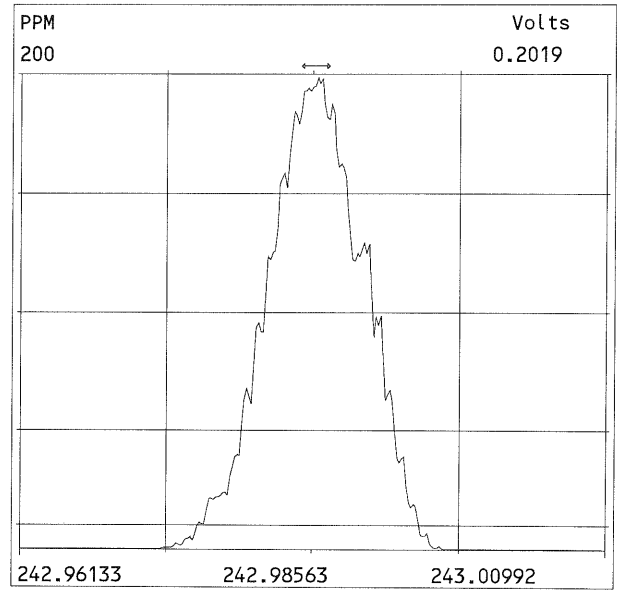


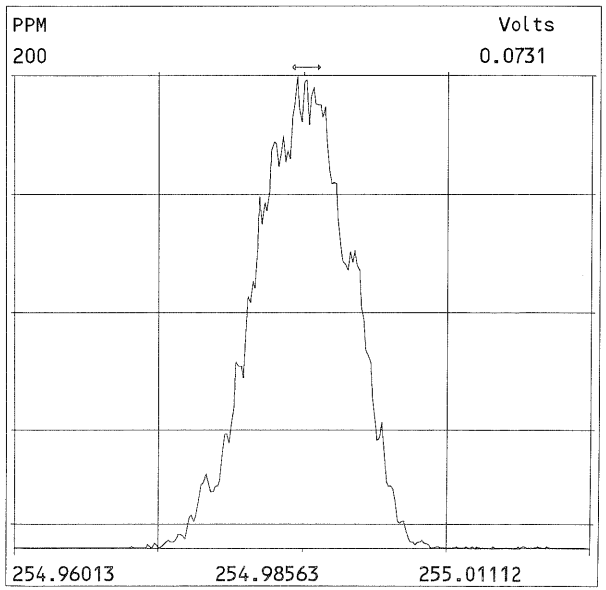


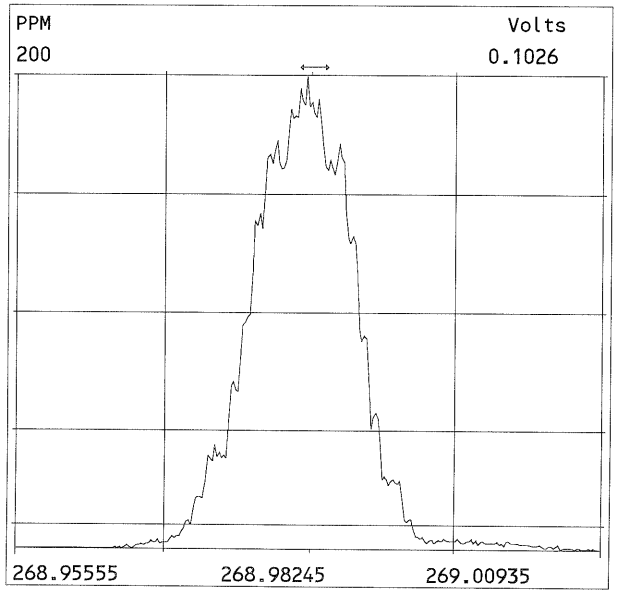
Peak Locate Examination:12-AUG-2016:07:42 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:2 Reference:PFK

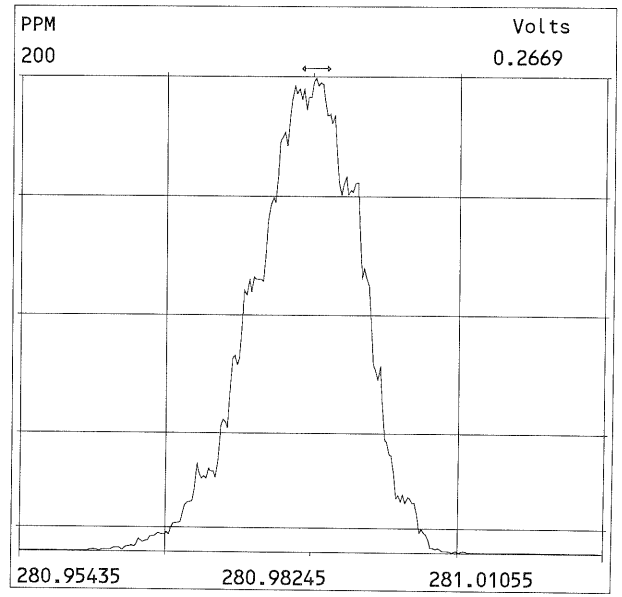




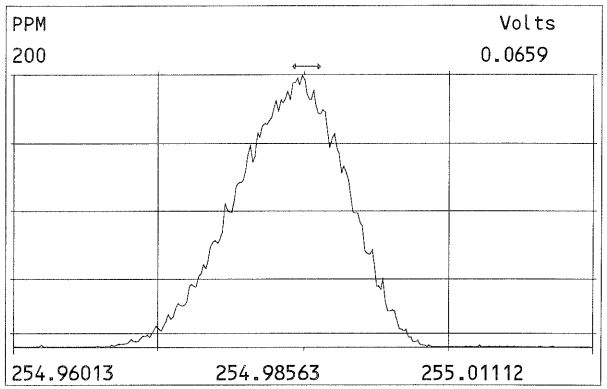


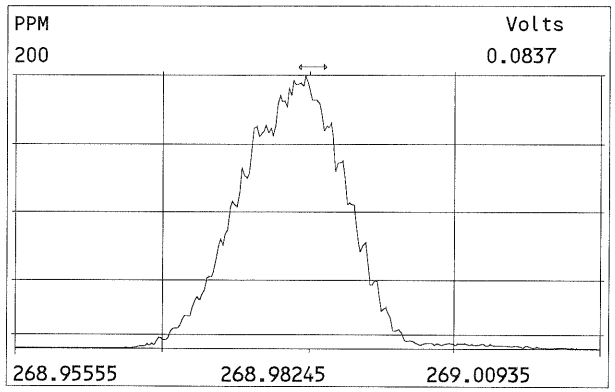


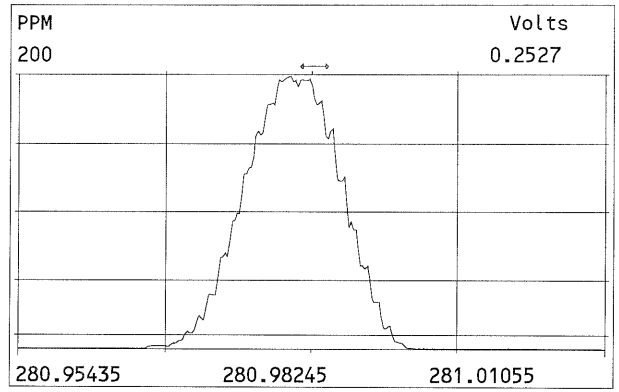


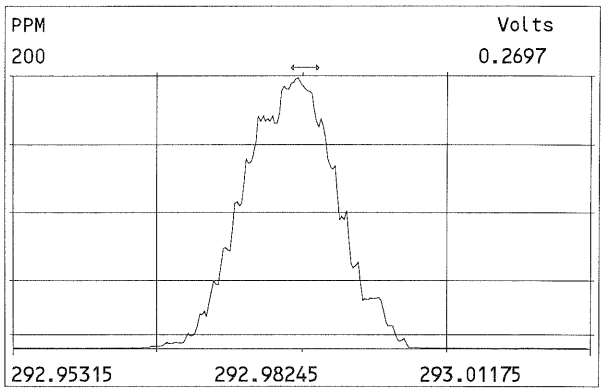


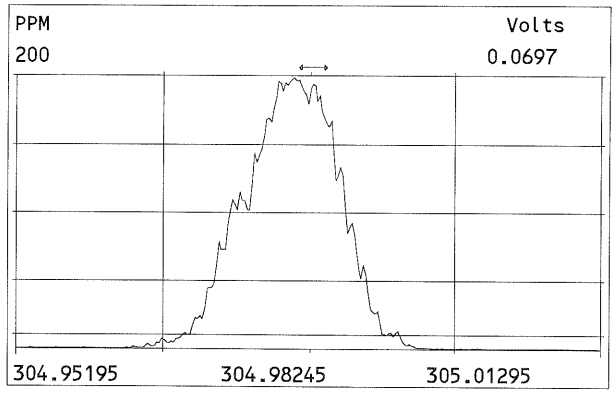
Peak Locate Examination:12-AUG-2016:07:43 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:3 Reference:PFK

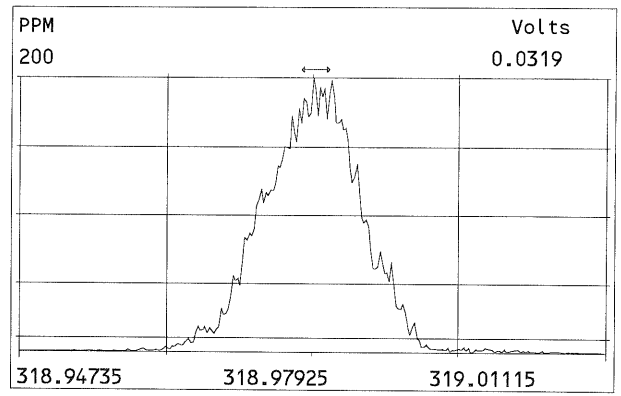


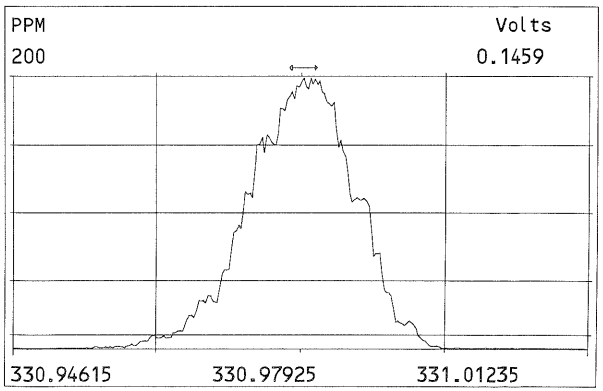


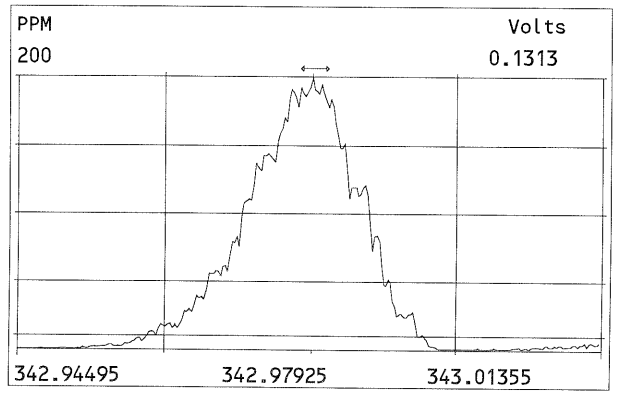




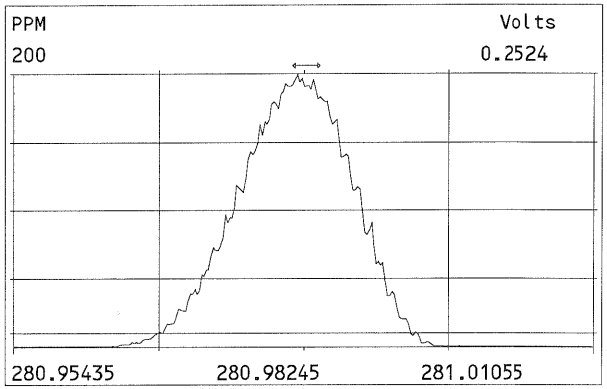


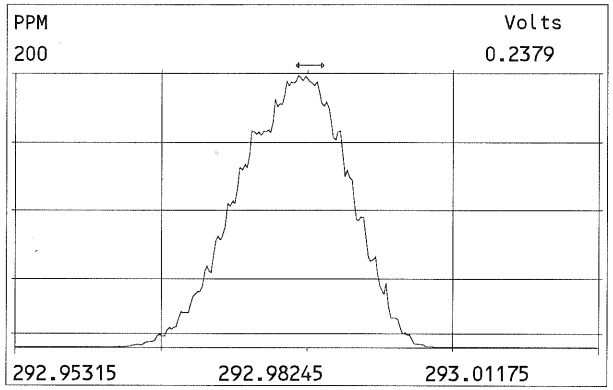


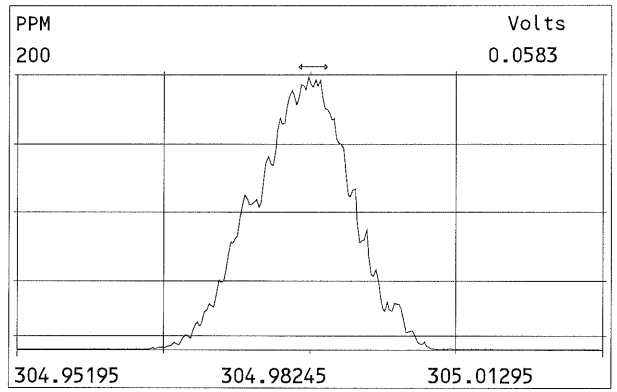


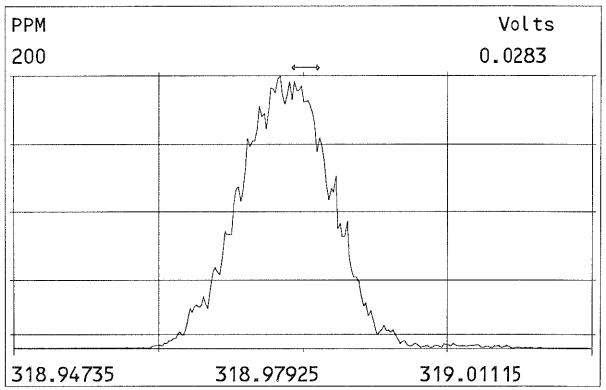


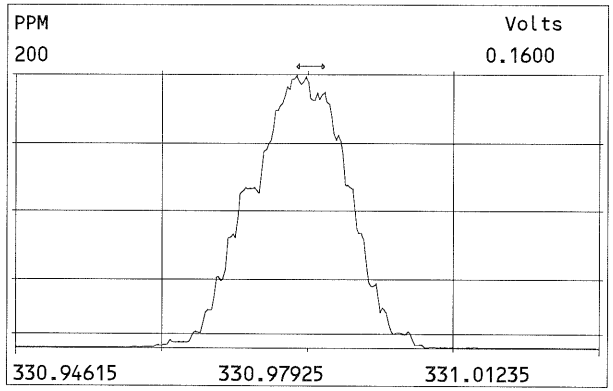
Peak Locate Examination:12-AUG-2016:07:43 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:4 Reference:PFK

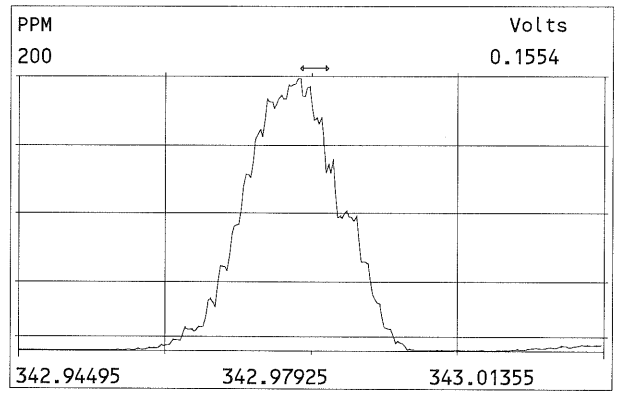


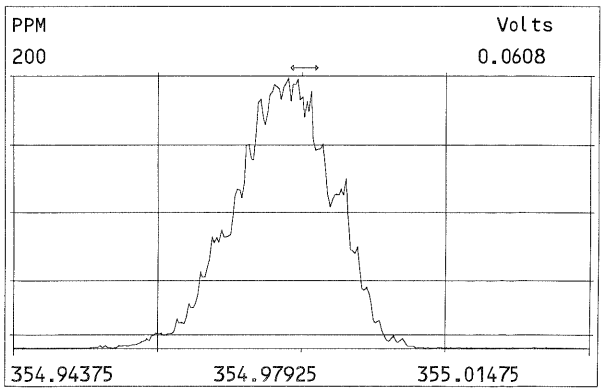


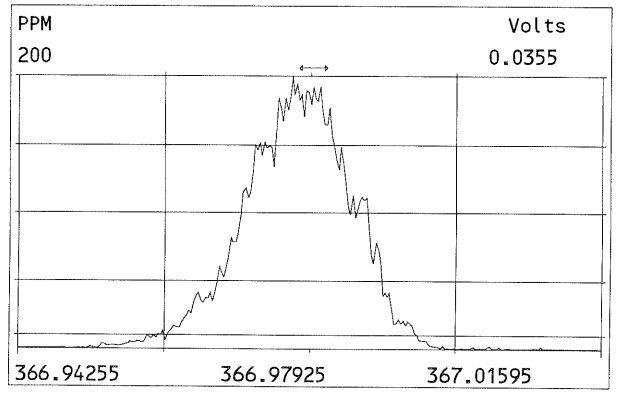


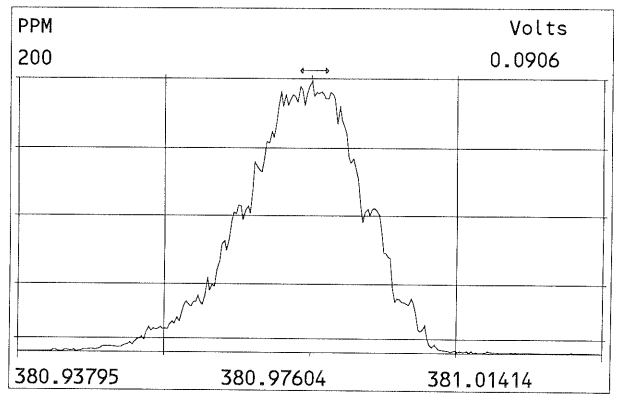




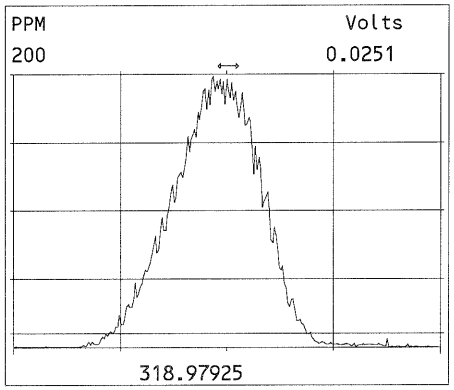


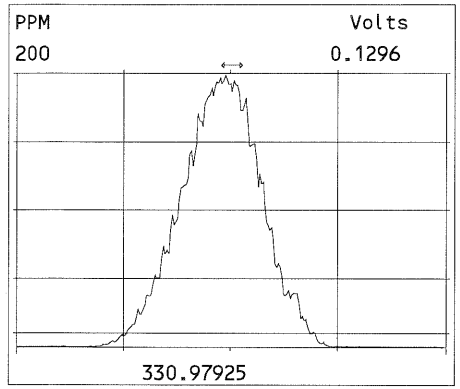


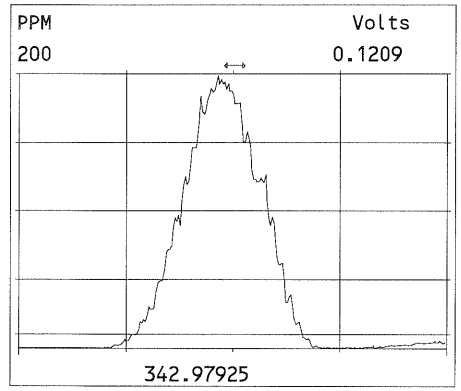


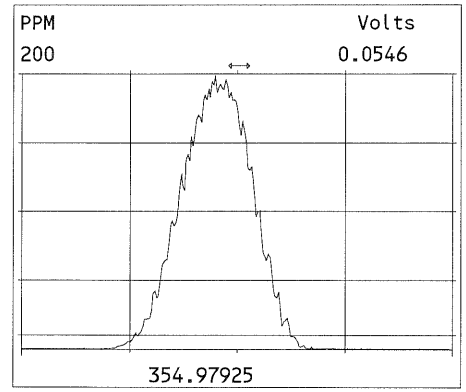


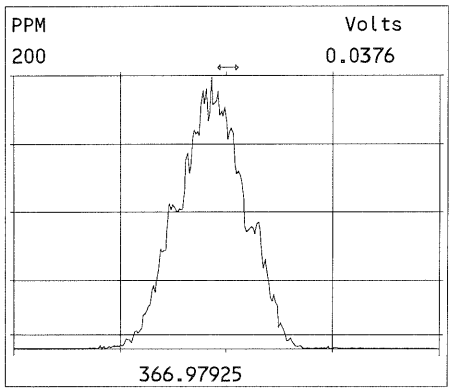
Peak Locate Examination:12-AUG-2016:07:44 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:5 Reference:PFK

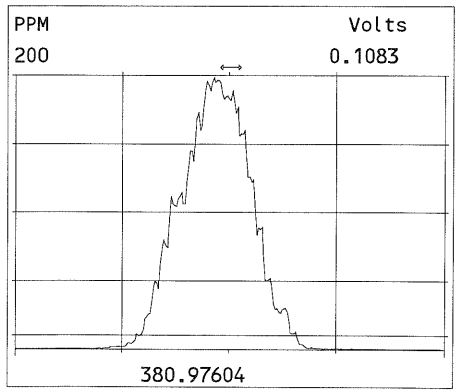


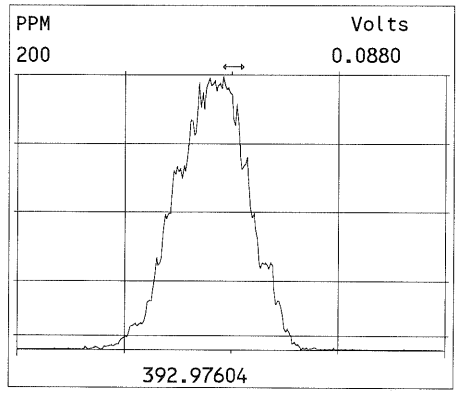


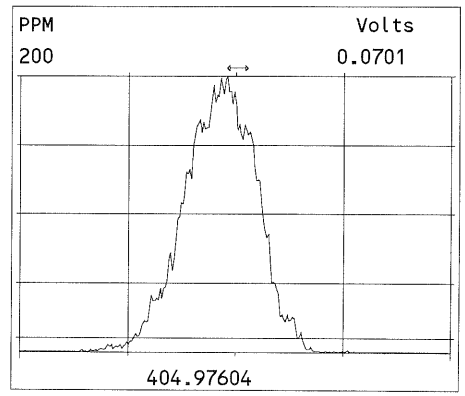


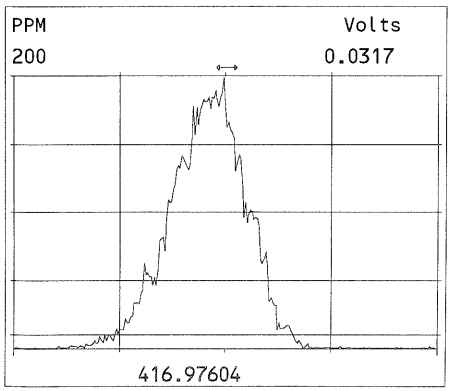


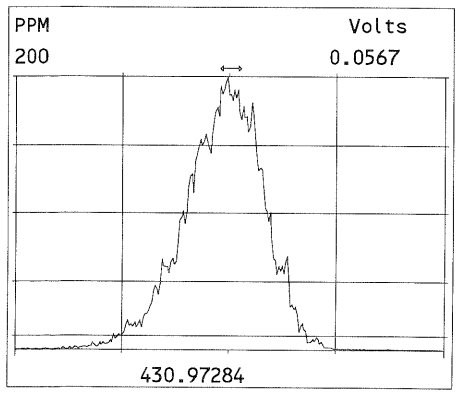


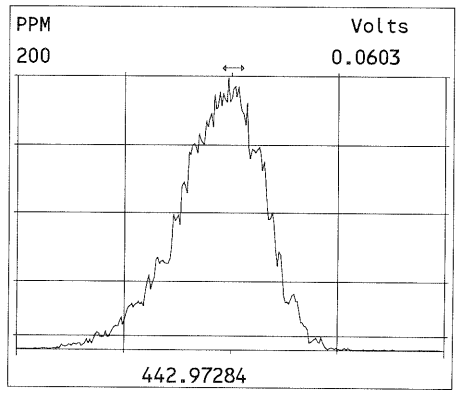




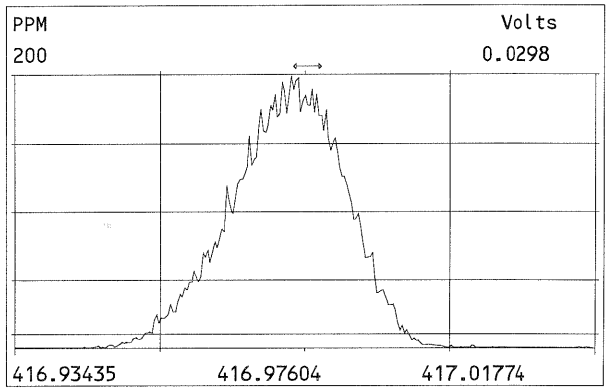


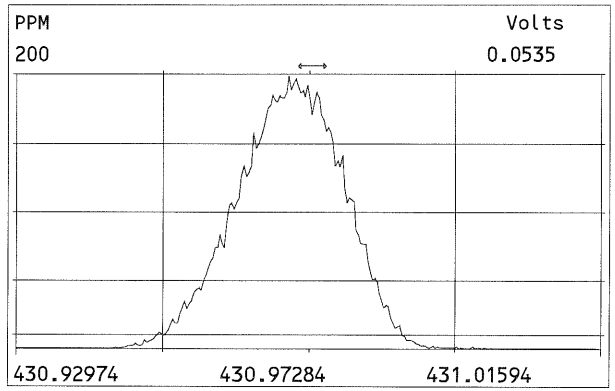


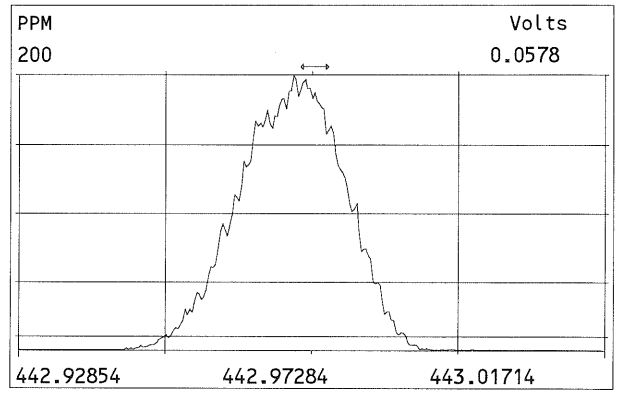


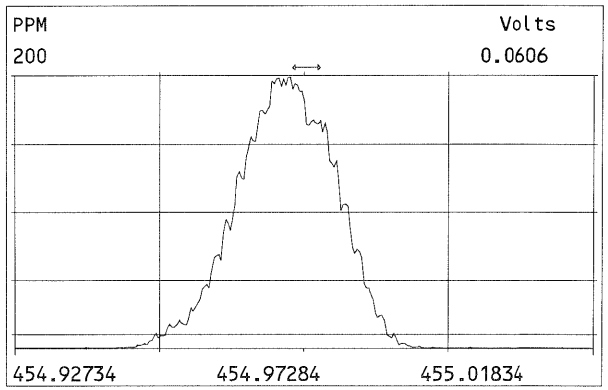


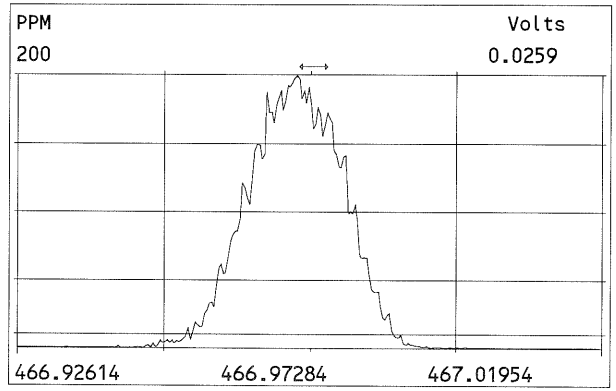
Peak Locate Examination:12-AUG-2016:07:44 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:6 Reference:PFK

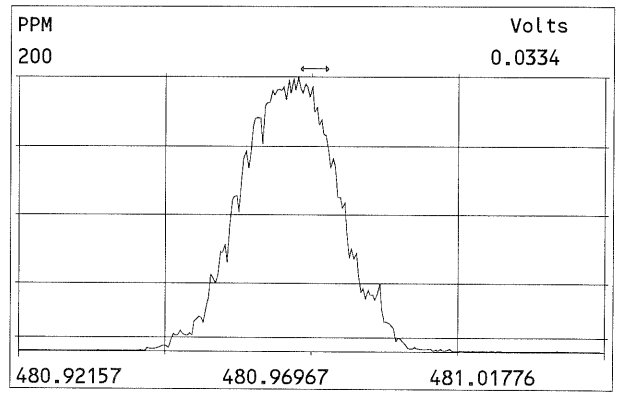


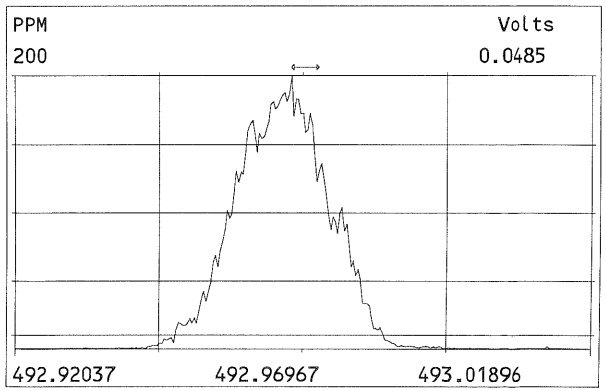


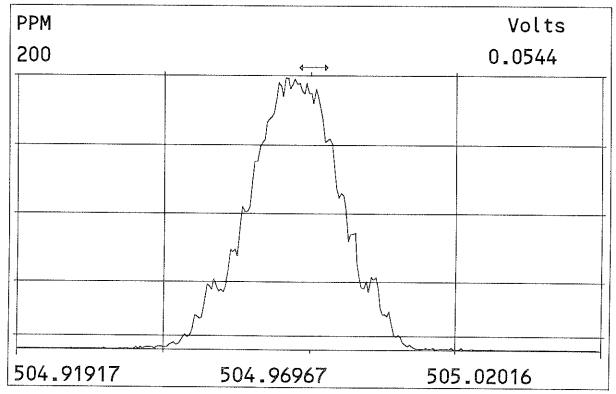


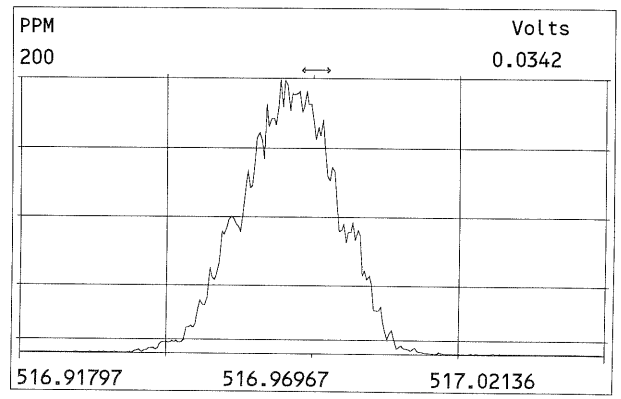












USEPA - ITD

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: 05JAN17Z Sam:1 Analysis Date: 5-JAN-17 10:21:09

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.04	2.66-3.60	y	45.2	37.5 - 62.5
PCB-3	M/M+2	3.09	2.66-3.60	y	46.2	37.5 - 62.5
PCB-4	M/M+2	1.50	1.33-1.79	y	47.0	37.5 - 62.5
PCB-15	M/M+2	1.49	1.33-1.79	y	47.9	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	44.6	37.5 - 62.5
PCB-37	M/M+2	1.00	0.88-1.20	y	45.1	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	49.3	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	48.1	37.5 - 62.5
PCB-81	M/M+2	0.77	0.65-0.89	y	47.7	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	45.8	37.5 - 62.5
PCB-105	M+2/M+4	1.53	1.32-1.78	y	47.1	37.5 - 62.5
PCB-114	M+2/M+4	1.54	1.32-1.78	y	47.9	37.5 - 62.5
PCB-118	M+2/M+4	1.53	1.32-1.78	y	49.8	37.5 - 62.5
PCB-123	M+2/M+4	1.51	1.32-1.78	y	48.9	37.5 - 62.5
PCB-126	M+2/M+4	1.51	1.32-1.78	y	48.1	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	46.9	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	47.6	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	50.4	37.5 - 62.5
PCB-167	M+2/M+4	1.29	1.05-1.43	y	48.4	37.5 - 62.5
PCB-169	M+2/M+4	1.30	1.05-1.43	y	47.9	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	46.1	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	46.4	37.5 - 62.5
PCB-202	M+2/M+4	0.90	0.76-1.02	y	46.3	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	51.8	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	48.9	37.5 - 62.5
PCB-208	M+4/M+6	1.33	1.13-1.53	y	49.0	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	50.1	37.5 - 62.5

Analyst: _____ Date: 1/6/17

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: 05JAN17Z Sam:1 Analysis Date: 5-JAN-17 10:21:09

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.12	2.66-3.60	y	109	50.0 - 145
13C-PCB-3	M/M+2	3.16	2.66-3.60	y	110	50.0 - 145
13C-PCB-4	M/M+2	1.57	1.33-1.79	y	98.8	50.0 - 145
13C-PCB-15	M/M+2	1.58	1.33-1.79	y	99.7	50.0 - 145
13C-PCB-19	M/M+2	1.06	0.88-1.20	y	113	50.0 - 145
13C-PCB-37	M/M+2	1.08	0.88-1.20	y	82.5	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	91.2	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	79.9	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	78.1	50.0 - 145
13C-PCB-104	M+2/M+4	1.57	1.32-1.78	y	117	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	87.6	50.0 - 145
13C-PCB-114	M+2/M+4	1.60	1.32-1.78	y	87.8	50.0 - 145
13C-PCB-118	M+2/M+4	1.62	1.32-1.78	y	86.8	50.0 - 145
13C-PCB-123	M+2/M+4	1.58	1.32-1.78	y	89.0	50.0 - 145
13C-PCB-126	M+2/M+4	1.58	1.32-1.78	y	78.3	50.0 - 145
13C-PCB-155	M+2/M+4	1.25	1.05-1.43	y	111	50.0 - 145
13C-PCB-156	M+2/M+4	1.27	1.05-1.43	y	92.7	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	90.9	50.0 - 145
13C-PCB-167	M+2/M+4	1.24	1.05-1.43	y	93.6	50.0 - 145
13C-PCB-169	M+2/M+4	1.26	1.05-1.43	y	87.5	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	119	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	106	50.0 - 145
13C-PCB-202	M+2/M+4	0.93	0.76-1.02	y	136	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	93.4	50.0 - 145
13C-PCB-206	M+2/M+4	0.77	0.65-0.89	y	108	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	123	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	108	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	84.8	65.0 - 135
13C-PCB-111	M+2/M+4	1.57	1.32-1.78	y	97.3	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	123	75.0 - 125

Analyst: [signature] Date: 1/6/17

FAL ID: ST010517Z1 Filename: 05JAN17Z Sam:1 Acquired: 5-JAN-17 10:21:09 ICal: 1668FAL4-8-11-16
Client ID: CS381 ConCal: ST010517Z1 EndCal: ST010517Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.18e+07	3.04 y	14:32	1.05	45.2		2.50	-	-	*	-
13C-PCB-1	6.69e+07	3.12 y	14:31	1.14	109		2.50				109
PCB-3	3.18e+07	3.09 y	16:59	1.05	46.2		2.50	-	-	*	-
13C-PCB-3	6.58e+07	3.16 y	16:58	1.11	110		2.50				110
PCB-4	1.92e+07	1.50 y	18:14	1.14	47.0		2.50	-	-	*	-
13C-PCB-4	3.59e+07	1.57 y	18:12	0.68	98.8		2.50				98.8
PCB-15	2.86e+07	1.49 y	23:47	1.09	47.9		2.50	-	-	*	-
13C-PCB-15	5.48e+07	1.58 y	23:46	1.02	99.7		2.50				99.7
PCB-19	1.93e+07	1.04 y	22:08	1.16	44.6		2.50	-	-	*	-
13C-PCB-19	3.74e+07	1.06 y	22:06	0.61	113		2.50				113
13C-PCB-9	5.38e+07	1.59 y	19:53	-	39.3		2.50				
PCB-37	2.15e+07	1.00 y	30:27	1.14	45.1		2.50	-	-	*	-
13C-PCB-37	4.18e+07	1.08 y	30:26	1.38	82.5		2.50				82.5
PCB-54	2.18e+07	0.79 y	25:40	1.05	49.3		2.50	-	-	*	-
13C-PCB-54	4.20e+07	0.81 y	25:39	1.25	91.2		2.50				91.2
PCB-104	2.05e+07	1.59 y	30:07	1.14	45.8		2.50	-	-	*	-
13C-PCB-104	3.91e+07	1.57 y	30:06	0.91	117		2.50				117
13C-PCB-28	4.63e+07	1.04 y	26:45	1.48	84.8		2.50				84.8
13C-PCB-52	3.68e+07	0.80 y	29:00	-	44.2		2.50				
PCB-81	1.85e+07	0.77 y	36:15	1.14	47.7		2.50	-	-	*	-
13C-PCB-81	3.39e+07	0.79 y	36:13	1.27	78.1		2.50				78.1
PCB-77	1.84e+07	0.79 y	36:48	1.10	48.1		2.50	-	-	*	-
13C-PCB-77	3.47e+07	0.79 y	36:46	1.27	79.9		2.50				79.9
PCB-155	2.14e+07	1.27 y	34:18	1.11	46.9		2.50	-	-	*	-
13C-PCB-155	4.12e+07	1.25 y	34:17	1.09	111		2.50				111
13C-PCB-111	4.17e+07	1.57 y	36:22	1.25	97.3		2.50				97.3
13C-PCB-101	3.42e+07	1.57 y	34:44	-	46.8		2.50				
PCB-123	1.61e+07	1.51 y	38:26	1.05	48.9		2.50	-	-	*	-
13C-PCB-123	3.12e+07	1.58 y	38:24	1.20	89.0		2.50				89.0
PCB-118	1.77e+07	1.53 y	38:37	1.07	49.8		2.50	-	-	*	-
13C-PCB-118	3.33e+07	1.62 y	38:36	1.31	86.8		2.50				86.8
PCB-114	1.64e+07	1.54 y	39:14	1.08	47.9		2.50	-	-	*	-
13C-PCB-114	3.16e+07	1.60 y	39:12	1.23	87.8		2.50				87.8
PCB-105	1.61e+07	1.53 y	40:03	1.08	47.1		2.50	-	-	*	-
13C-PCB-105	3.17e+07	1.59 y	40:01	1.24	87.6		2.50				87.6
PCB-126	1.38e+07	1.51 y	42:10	1.07	48.1		2.50	-	-	*	-
13C-PCB-126	2.68e+07	1.58 y	42:10	1.17	78.3		2.50				78.3
PCB-167	1.61e+07	1.29 y	43:32	0.98	48.4		2.50	-	-	*	-
13C-PCB-167	3.39e+07	1.24 y	43:32	1.24	93.6		2.50				93.6
PCB-156	1.54e+07	1.25 y	44:46	1.01	47.6		2.50	-	-	*	-
13C-PCB-156	3.20e+07	1.27 y	44:44	1.18	92.7		2.50				92.7
PCB-157	1.58e+07	1.26 y	45:01	0.96	50.4		2.50	-	-	*	-
13C-PCB-157	3.25e+07	1.27 y	45:01	1.22	90.9		2.50				90.9
PCB-169	1.35e+07	1.30 y	46:55	1.00	47.9		2.50	-	-	*	-
13C-PCB-169	2.83e+07	1.26 y	46:53	1.11	87.5		2.50				87.5
PCB-188	2.14e+07	1.05 y	39:48	1.09	46.1		2.50	-	-	*	-
13C-PCB-188	4.24e+07	1.07 y	39:47	1.22	119		2.50				119
PCB-189	1.59e+07	1.05 y	48:35	1.14	46.4		2.50	-	-	*	-
13C-PCB-189	3.01e+07	1.07 y	48:33	0.97	106		2.50				106
PCB-202	1.70e+07	0.90 y	44:56	1.05	46.3		2.50	-	-	*	-
13C-PCB-202	3.48e+07	0.93 y	44:54	0.88	136		2.50				136
13C-PCB-178	2.78e+07	1.06 y	42:26	0.77	123		2.50				123
13C-PCB-138	2.92e+07	1.25 y	41:38	-	41.9		2.50				

FAL ID: ST010517Z1 Filename: 05JAN17Z Sam:1 Acquired: 5-JAN-17 10:21:09 ICal: 1668FAL4-8-11-16
Client ID: CS381 ConCal: ST010517Z1 EndCal: ST010517Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	1.34e+07	0.91	y	50:16	1.02	51.8	2.50	-	-	*	-
13C-PCB-205	2.54e+07	0.91	y	50:14	1.38	93.4	2.50				93.4
PCB-208	1.45e+07	1.33	y	49:18	0.93	49.0	2.50	-	-	*	-
13C-PCB-208	3.17e+07	0.80	y	49:17	1.31	123	2.50				123
PCB-206	9.90e+06	1.35	y	51:30	0.94	48.9	2.50	-	-	*	-
13C-PCB-206	2.16e+07	0.77	y	51:29	1.01	108	2.50				108
PCB-209	1.57e+07	1.18	y	52:45	1.10	50.1	2.50	-	-	*	-
13C-PCB-209	2.84e+07	1.21	y	52:43	1.34	108	2.50				108
13C-PCB-194	1.97e+07	0.91	y	49:59	-	39.1	2.50				

Analyst: Date: 1/6/17

Frontier Analytical Laboratory - Acquisition Log

Run Name:05JAN17Z Instrument: FAL4 GC: DB1 Experiment:1668PCB

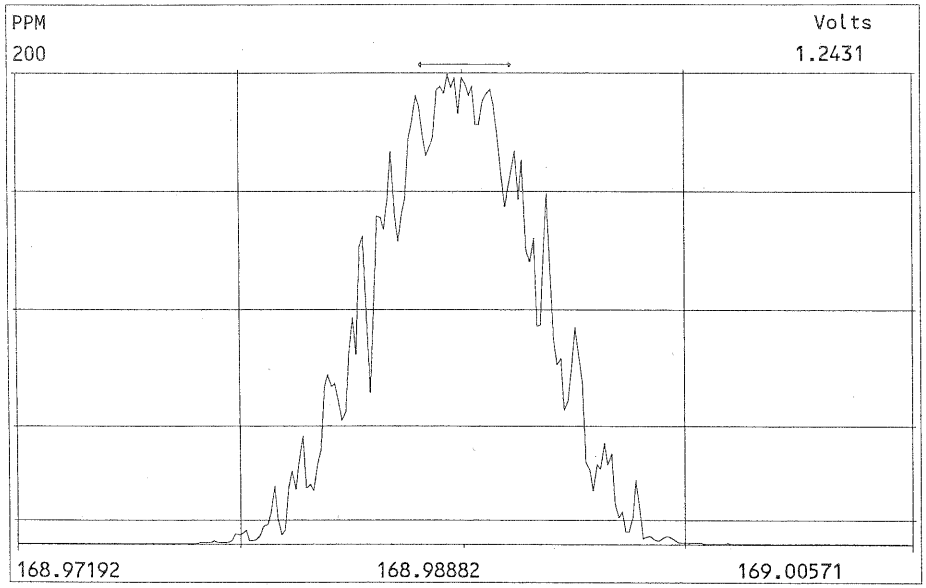
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
05JAN17Z	1	ST010517Z1	CS381	5-JAN-17 10:21:09	ST010517Z1	ST010517Z2	BS
05JAN17Z	2	SS010517Z1	CS20981	5-JAN-17 11:19:28	ST010517Z1	ST010517Z2	BS
05JAN17Z	3	03953-001-0001-MB	Method Blank	5-JAN-17 12:17:47	ST010517Z1	ST010517Z2	BS
05JAN17Z	4	03953-001-0001-OPR	OPR	5-JAN-17 13:16:07	ST010517Z1	ST010517Z2	BS
05JAN17Z	5	10302-004-0001-SA	P1424	5-JAN-17 14:14:29	ST010517Z1	ST010517Z2	BS
05JAN17Z	6	10302-022-0001-SA	P1461	5-JAN-17 15:12:48	ST010517Z1	ST010517Z2	BS
05JAN17Z	7	09396-010-B002-SA	MAF-SC-11_6-8	5-JAN-17 16:11:08	ST010517Z1	ST010517Z2	BS
05JAN17Z	8	09402-010-B002-SA	MAF-SC-20_1-2	5-JAN-17 17:09:28	ST010517Z1	ST010517Z2	BS
05JAN17Z	9	10311-004-0001-SA	LDW-BA-SU-ENR-CA-CORE	5-JAN-17 18:07:48	ST010517Z1	ST010517Z2	BS
05JAN17Z	10	10311-005-0001-SA	LDW-BA-SU-ENR-CB-CORE	5-JAN-17 19:06:07	ST010517Z1	ST010517Z2	BS
05JAN17Z	11	10311-006-0001-SA	LDW-BA-SU-ENR-CC-CORE	5-JAN-17 20:04:27	ST010517Z1	ST010517Z2	BS
05JAN17Z	12	10311-001-0001-SA	LDW-BA-SU-ENR+AC-CA-CORE	5-JAN-17 21:02:46	ST010517Z1	ST010517Z2	BS
05JAN17Z	13	10311-002-0001-SA	LDW-BA-SU-ENR+AC-CB-CORE	5-JAN-17 22:01:06	ST010517Z1	ST010517Z2	BS
05JAN17Z	14	10311-003-0001-SA	LDW-BA-SU-ENR+AC-CC-CORE	5-JAN-17 22:59:26	ST010517Z1	ST010517Z2	BS
05JAN17Z	15	SB010517Z1	ZZZZZZ	5-JAN-17 23:57:45	ST010517Z1	ST010517Z2	BS
05JAN17Z	16	ST010517Z2	CS382	6-JAN-17 00:56:06	ST010517Z1	ST010517Z2	BS

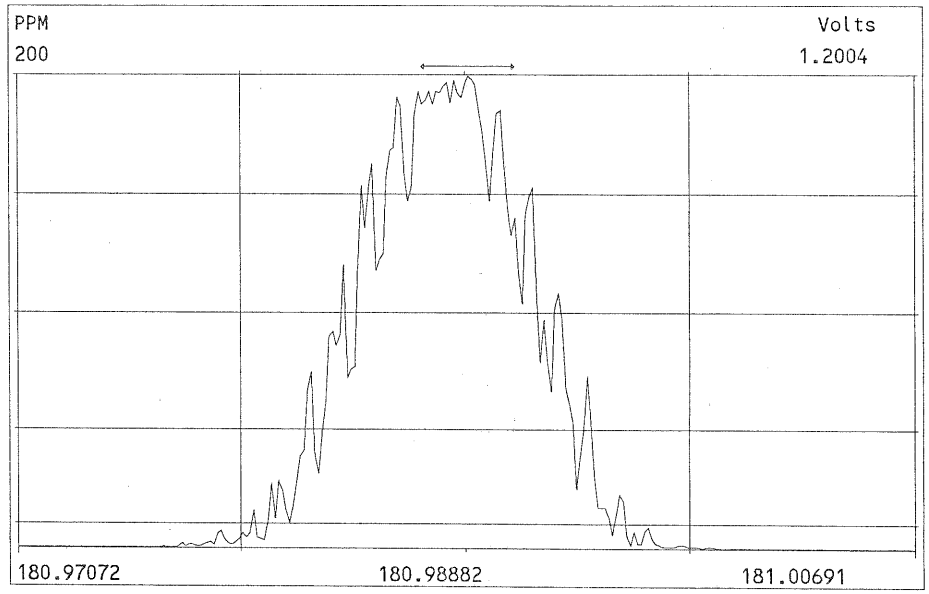
1/6/17

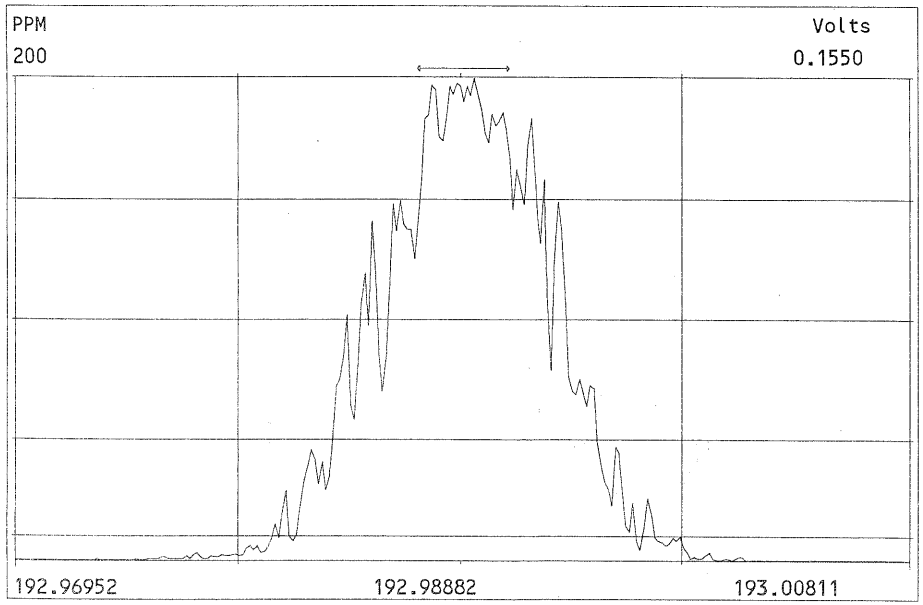
Data Backed Up:_____

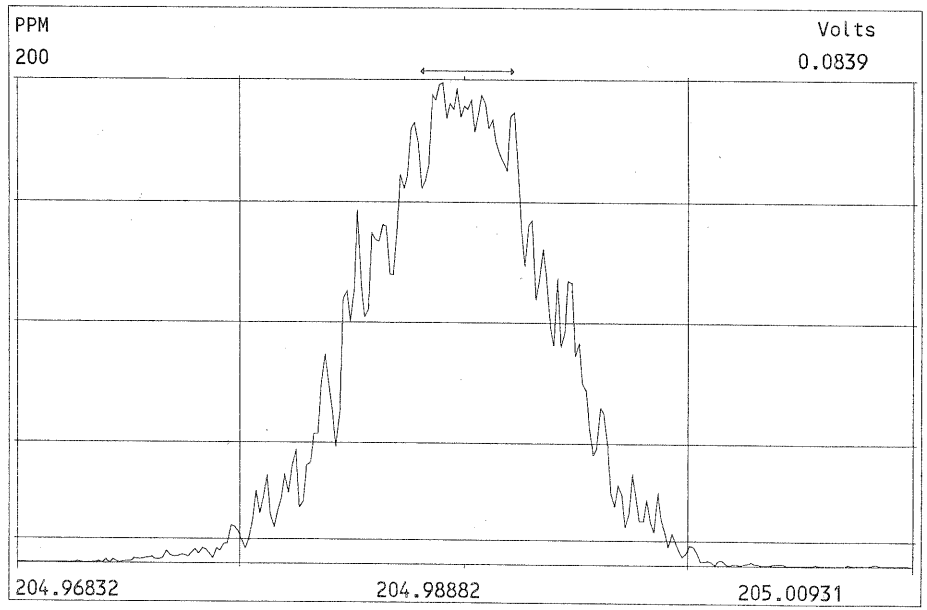
Date:_____

Peak Locate Examination: 5-JAN-2017:10:18 File:05JAN17Z
Experiment:1668PCB Function:1 Reference:PFK8

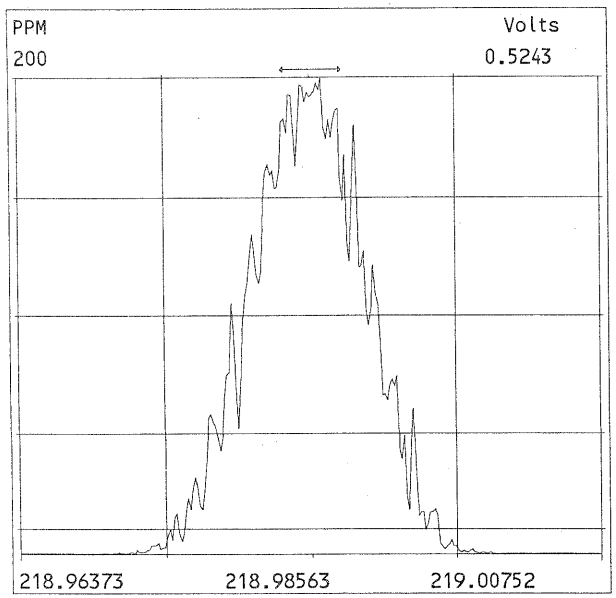


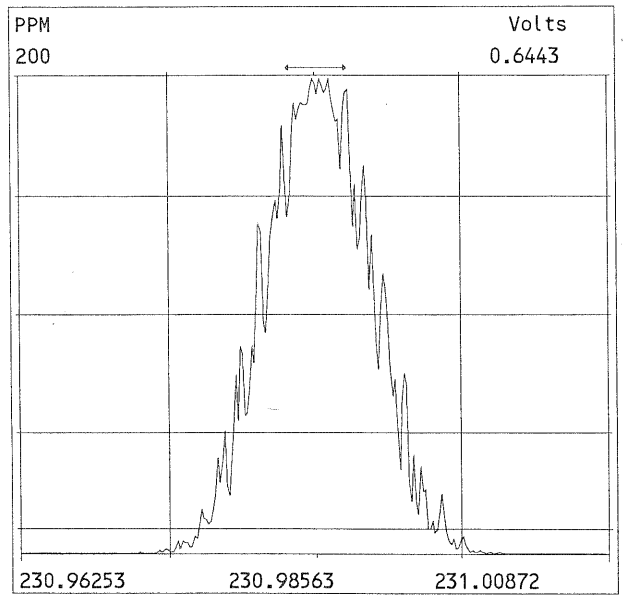


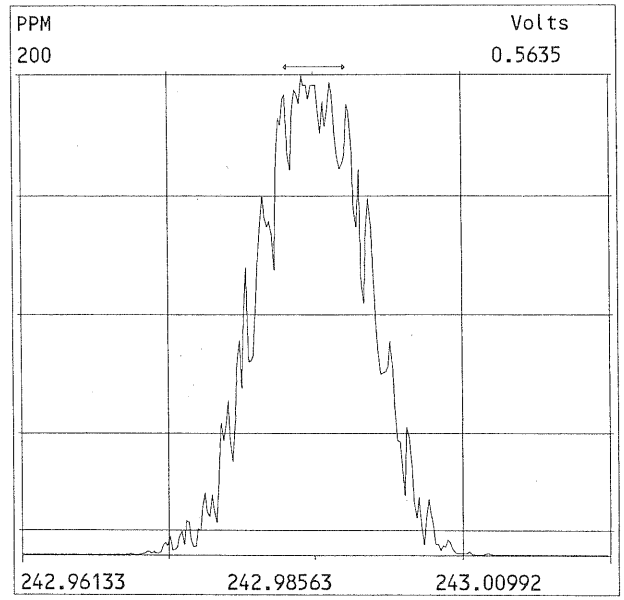


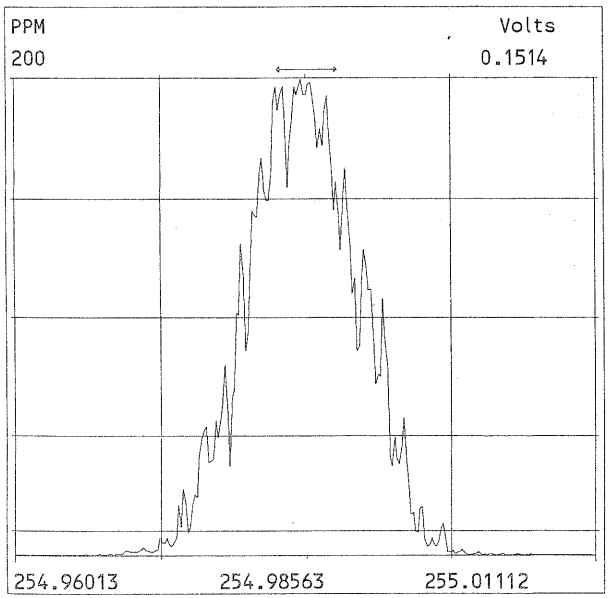


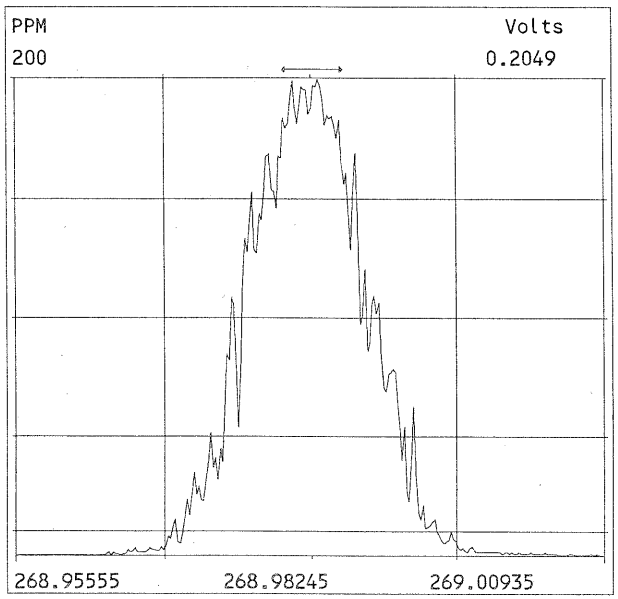
Peak Locate Examination: 5-JAN-2017:10:18 File:05JAN17Z
Experiment:1668PCB Function:2 Reference:PFK8

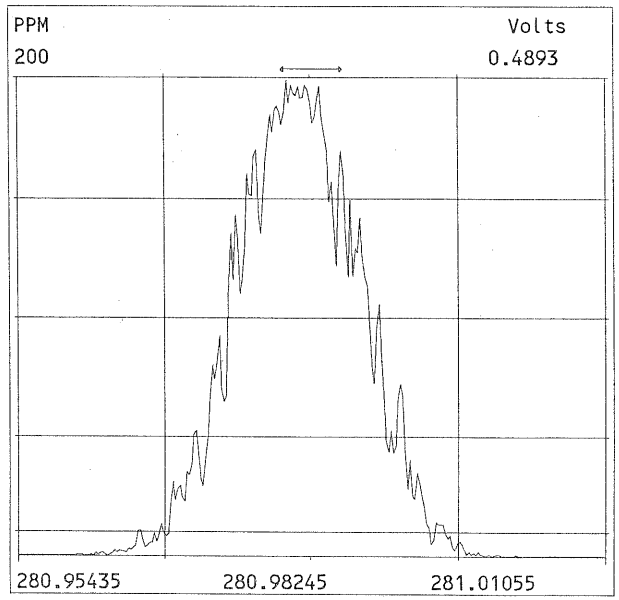




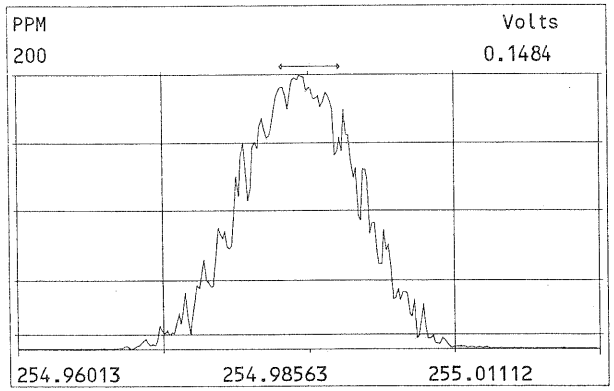


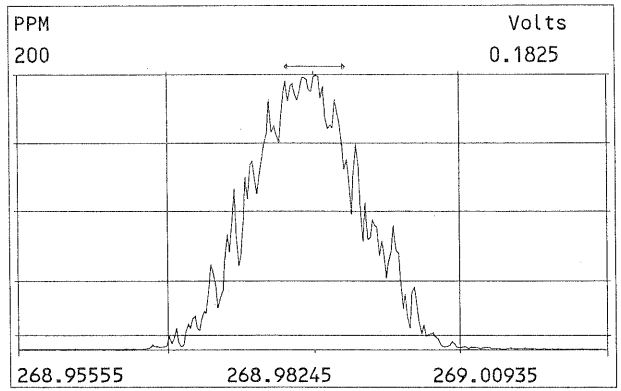


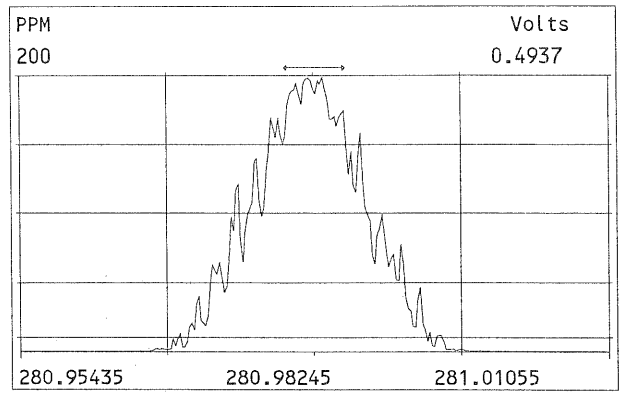


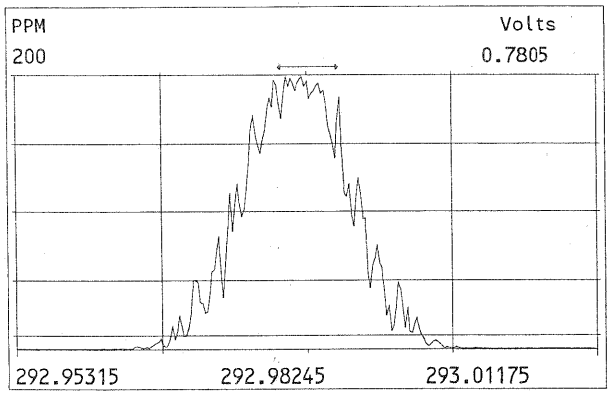


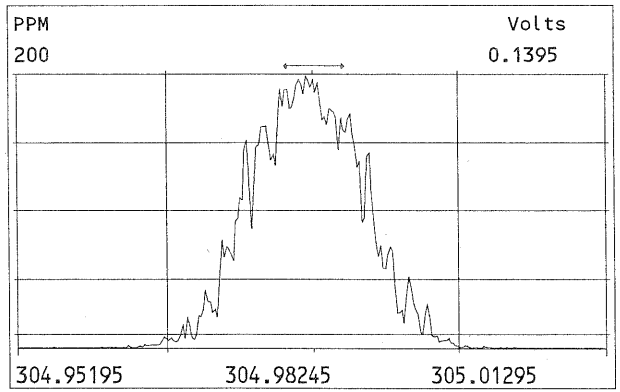
Peak Locate Examination: 5-JAN-2017:10:19 File:05JAN17Z
Experiment:1668PCB Function:3 Reference:PFK8/

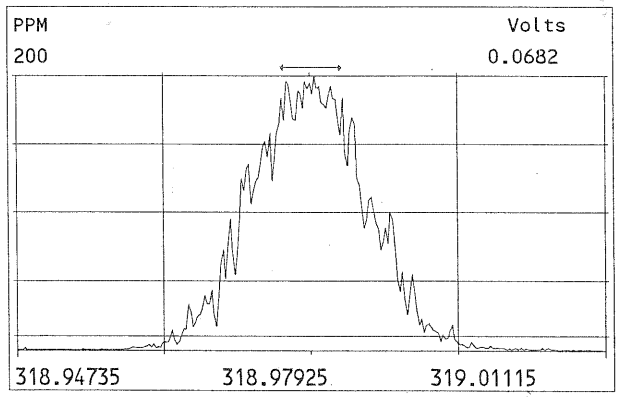


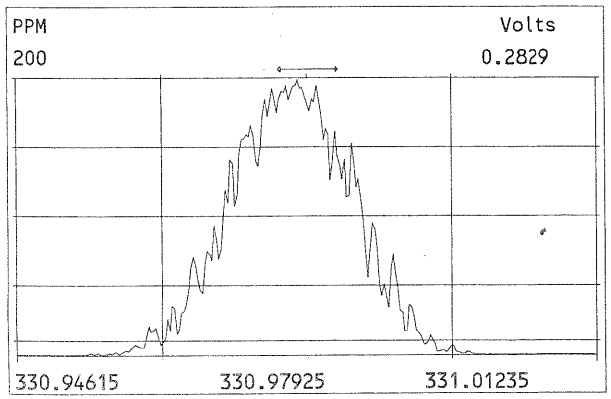


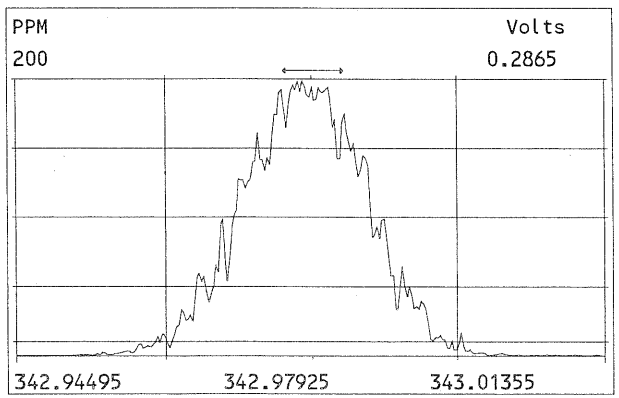




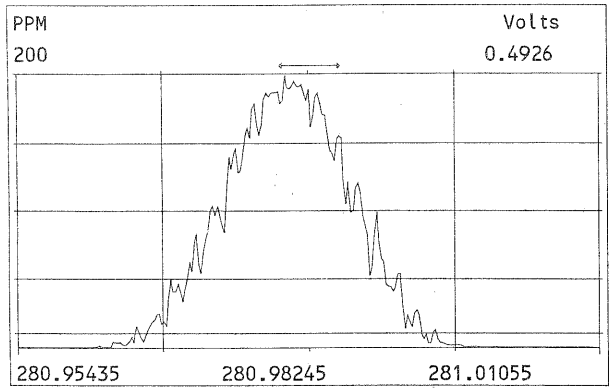


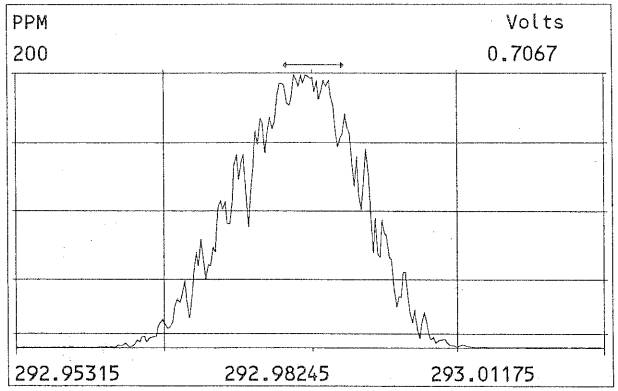


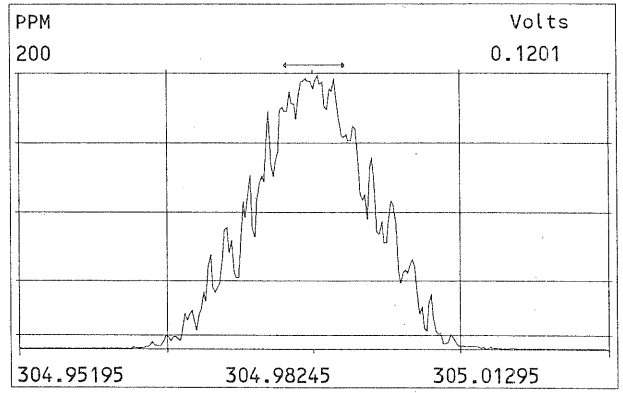


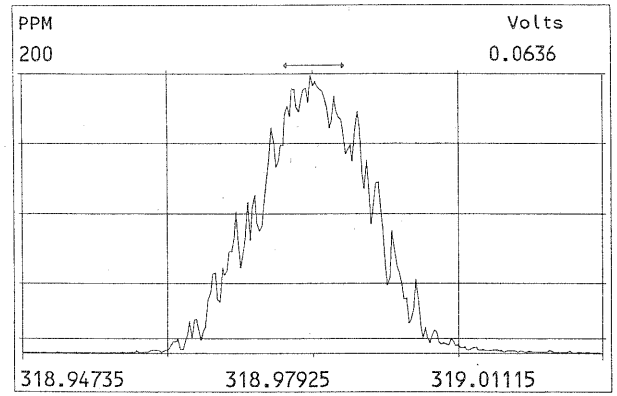


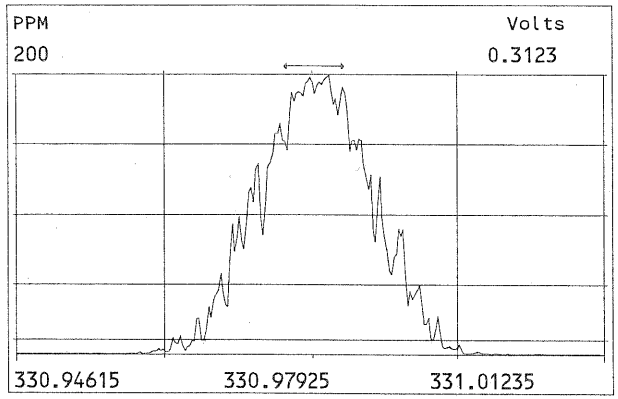
Peak Locate Examination: 5-JAN-2017:10:19 File:05JAN17Z
Experiment:1668PCB Function:4 Reference:PFK 81

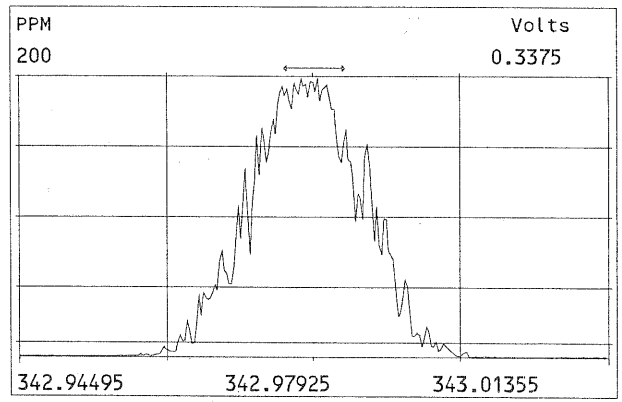


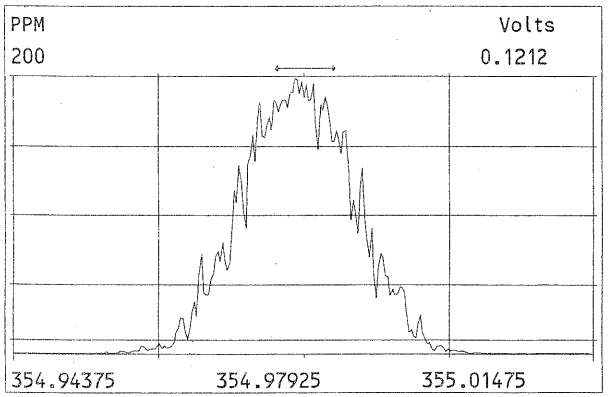


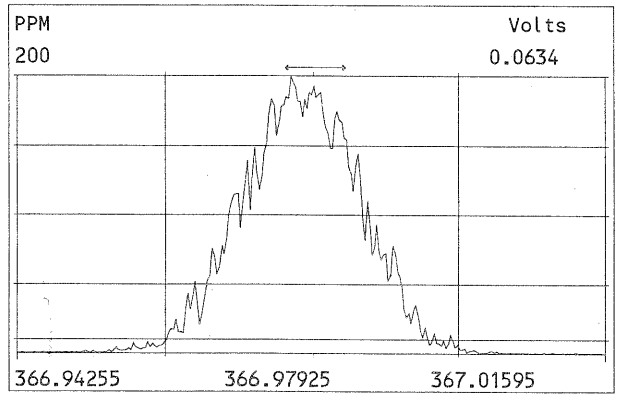


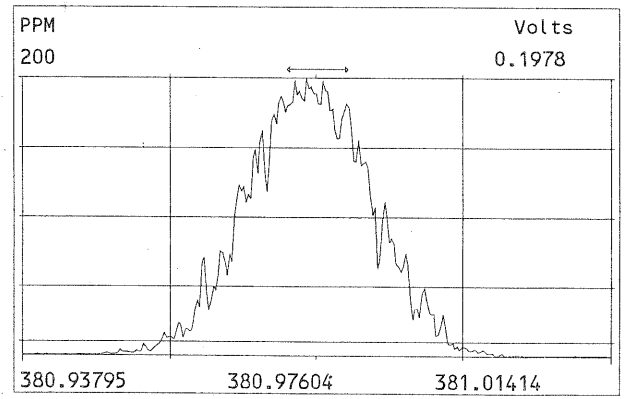




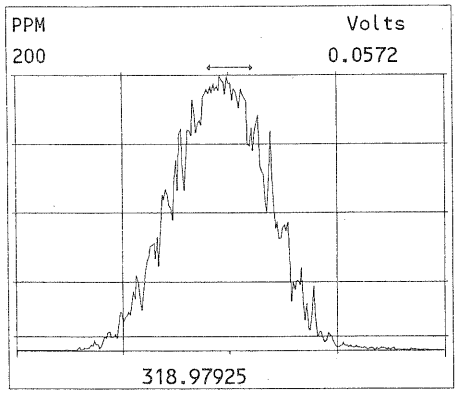


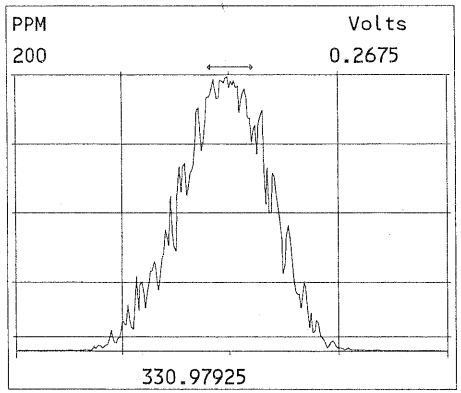


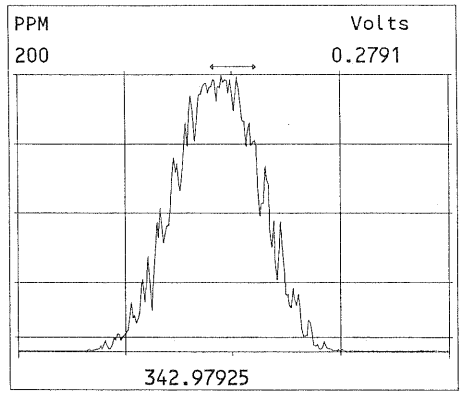


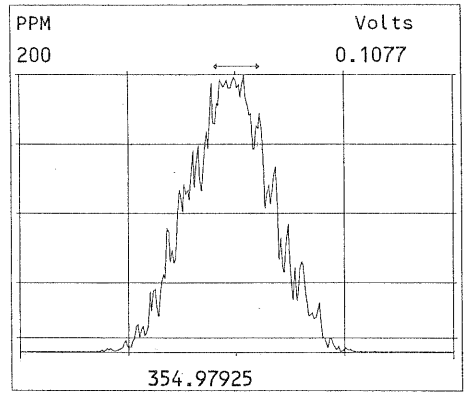


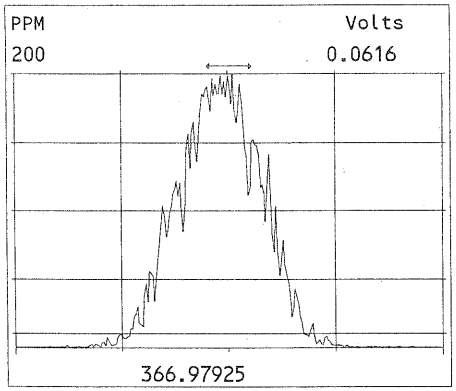
Peak Locate Examination: 5-JAN-2017:10:20 File:05JAN17Z
Experiment:1668PCB Function:5 Reference:PFK81

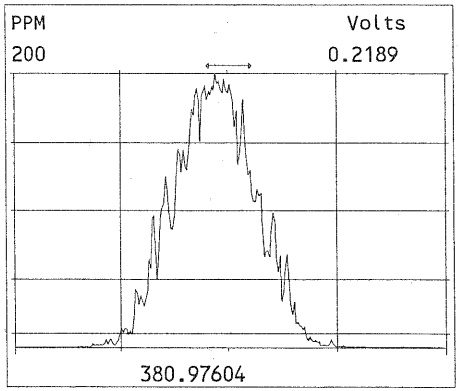


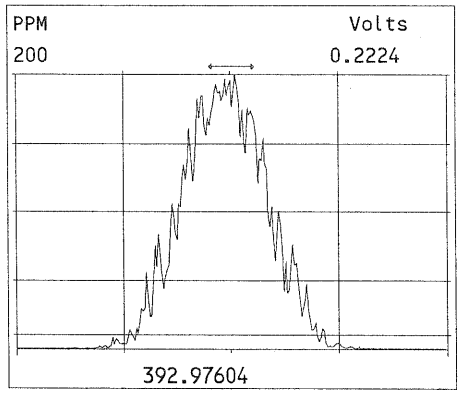


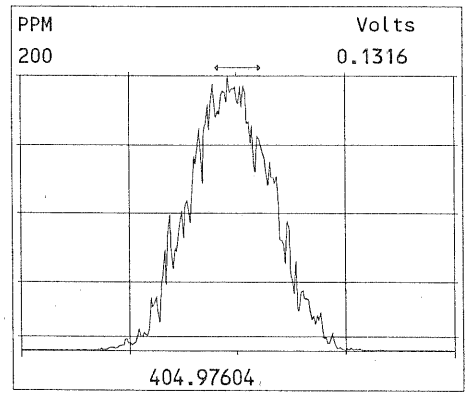


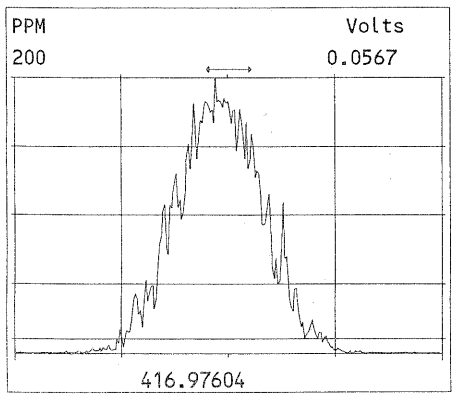


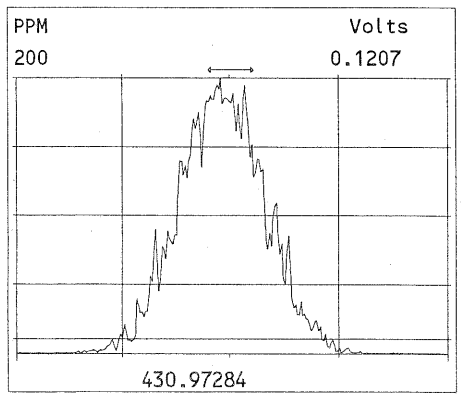


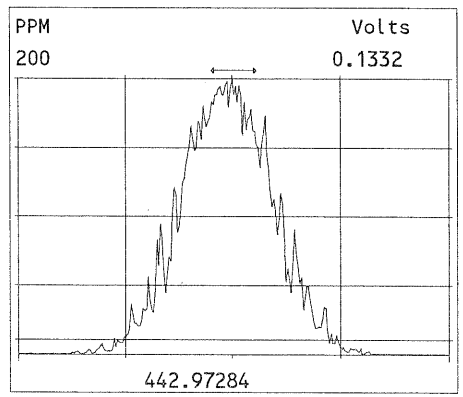




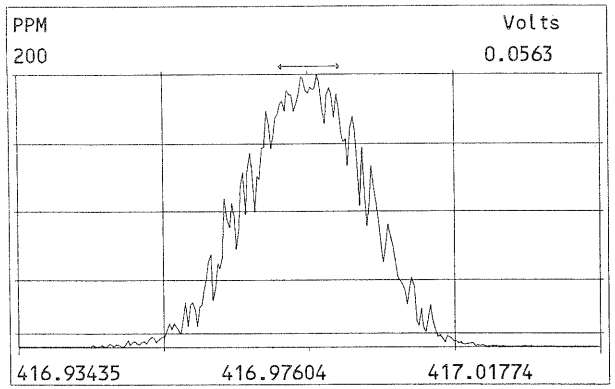


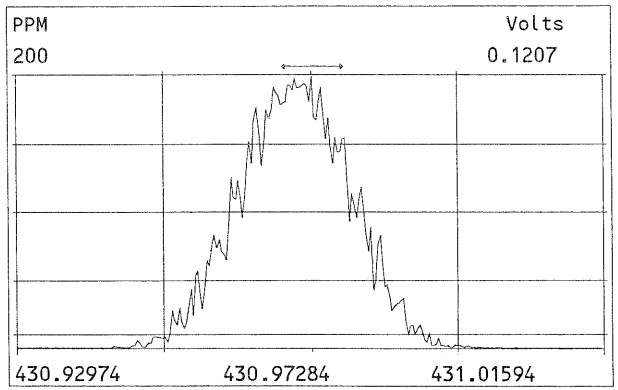


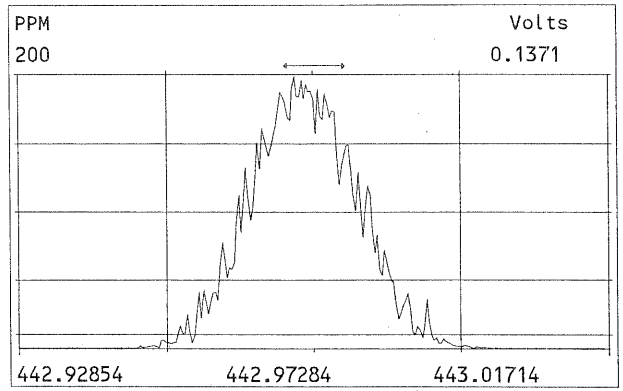


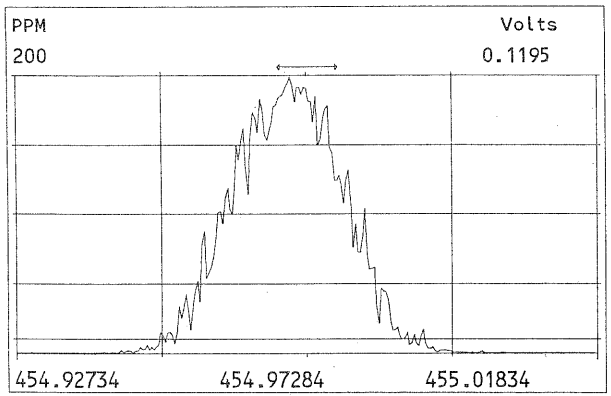


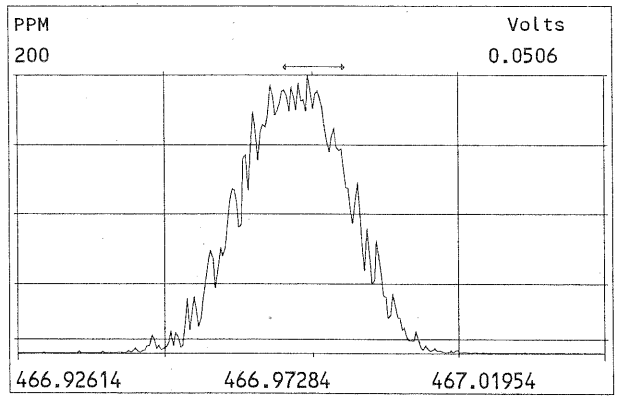
Peak Locate Examination: 5-JAN-2017:10:20 File:05JAN17Z
Experiment:1668PCB Function:6 Reference:PFK 81

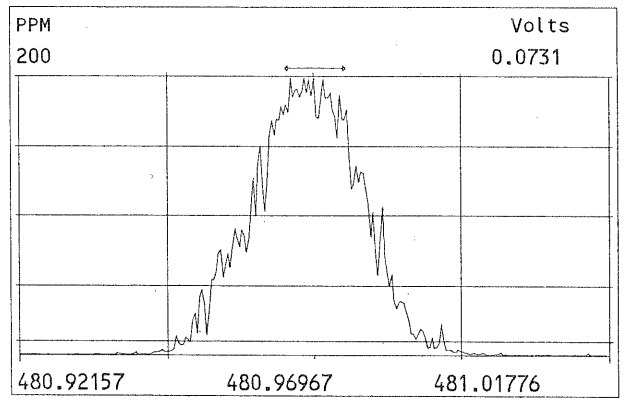


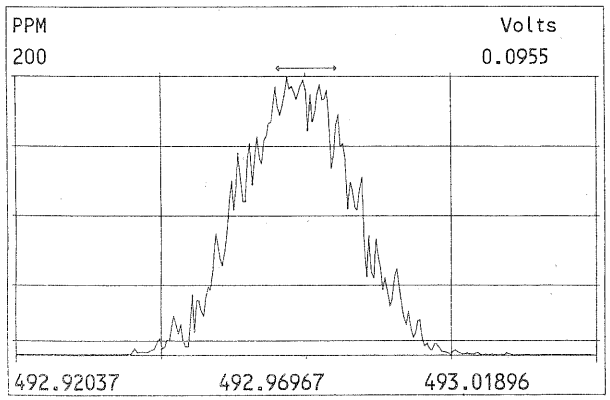


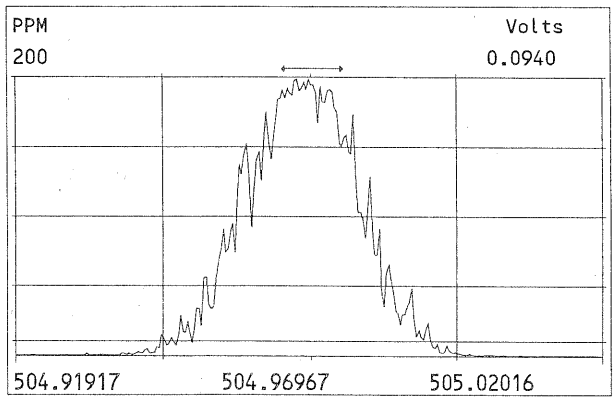


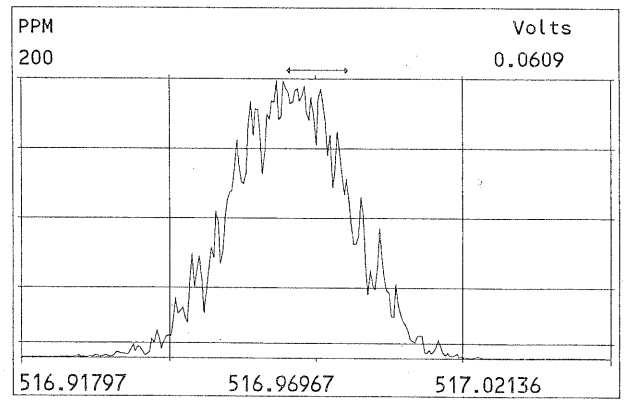




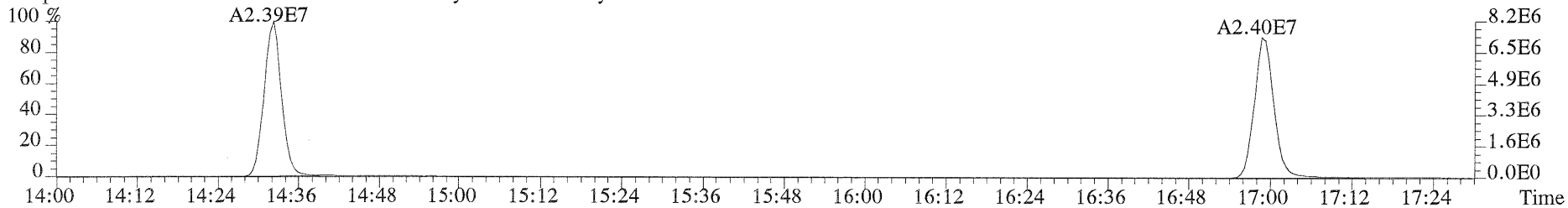




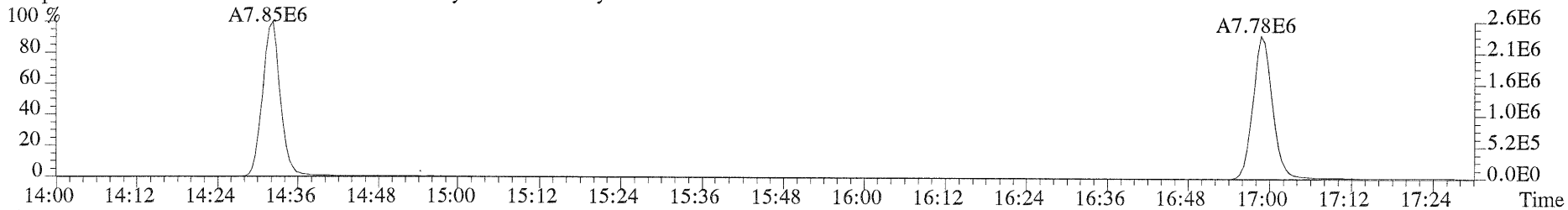




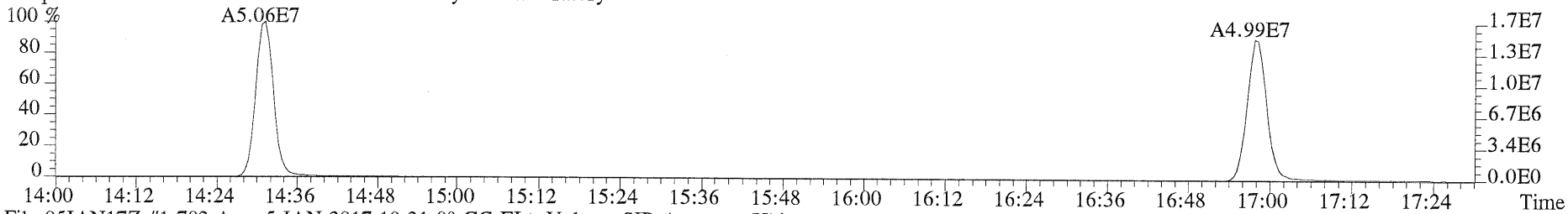
File:05JAN17Z #1-783 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



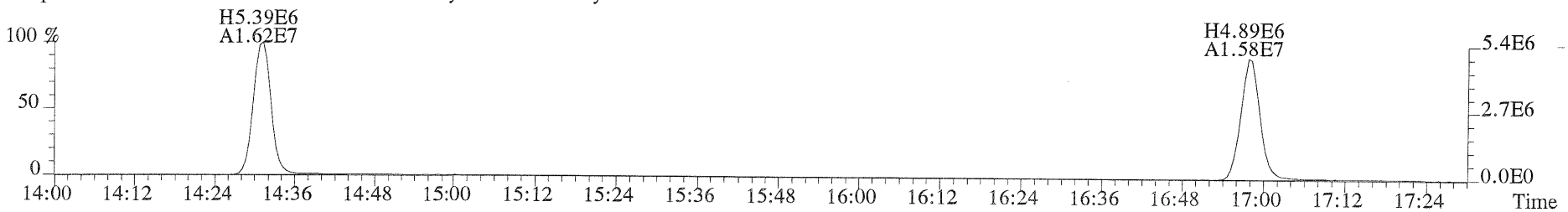
File:05JAN17Z #1-783 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



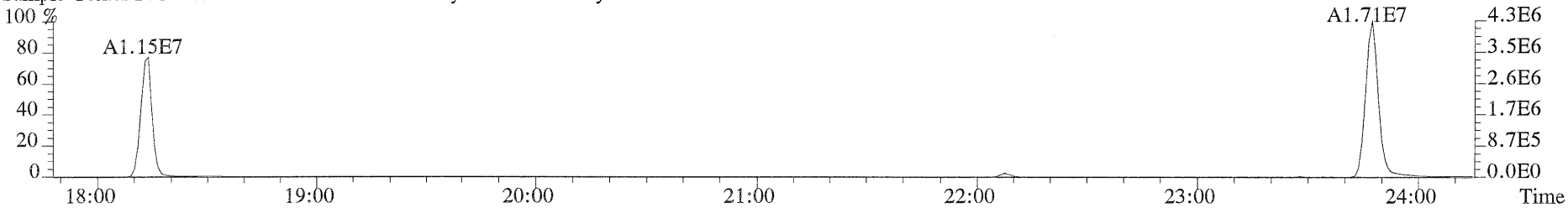
File:05JAN17Z #1-783 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



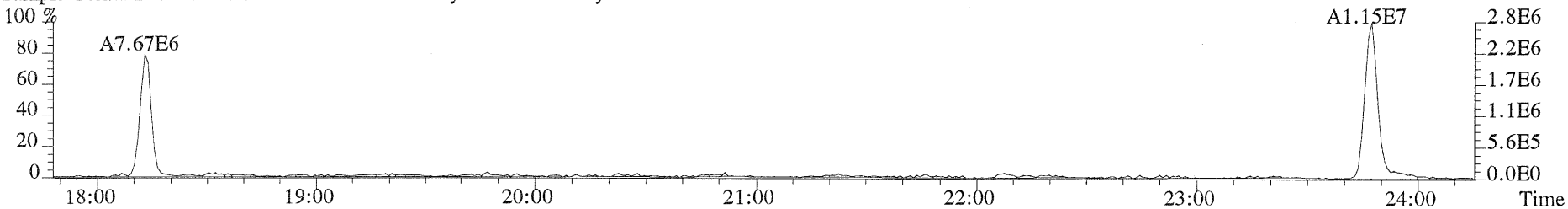
File:05JAN17Z #1-783 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



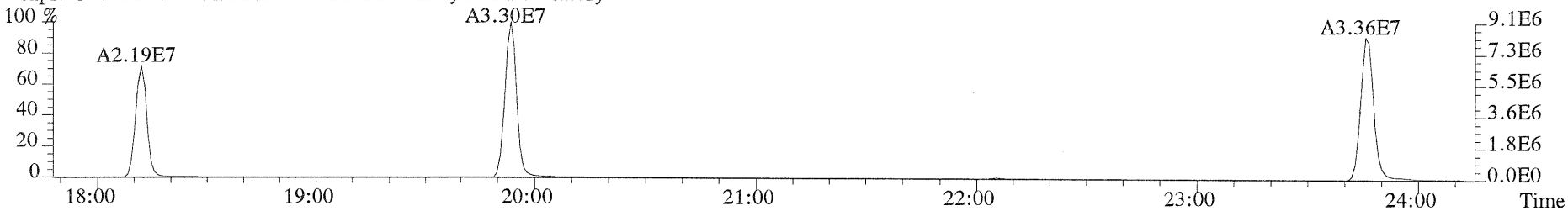
File:05JAN17Z #1-509 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



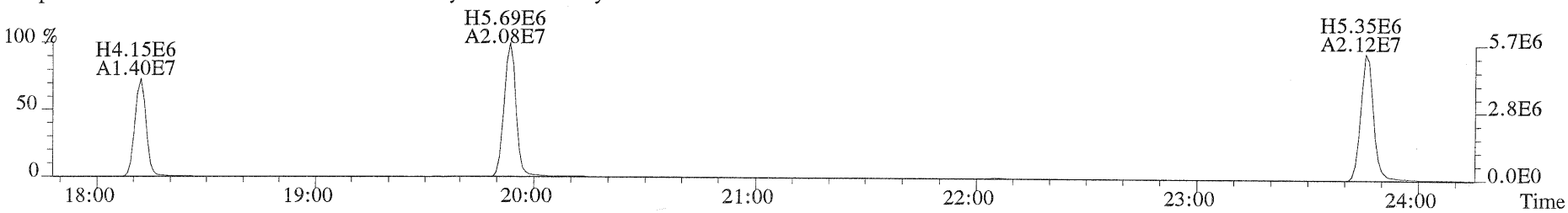
File:05JAN17Z #1-509 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



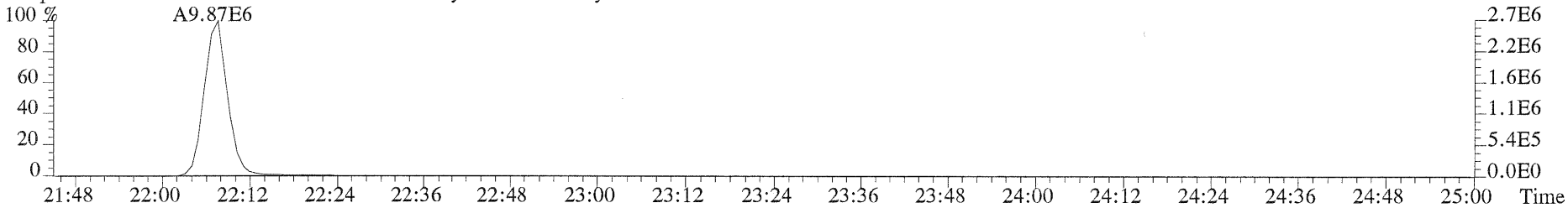
File:05JAN17Z #1-509 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



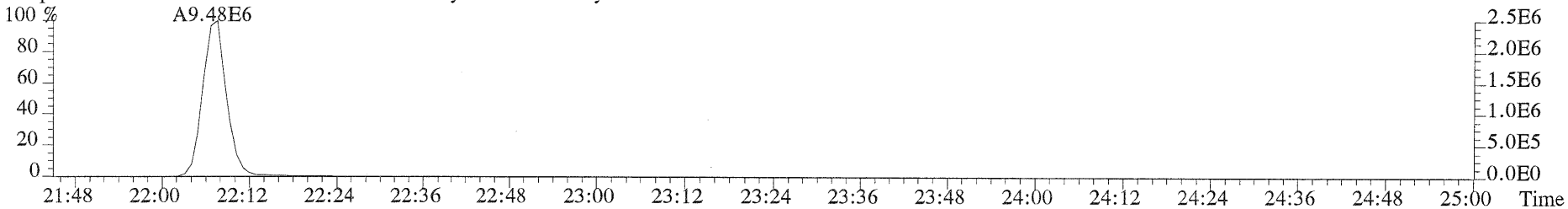
File:05JAN17Z #1-509 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



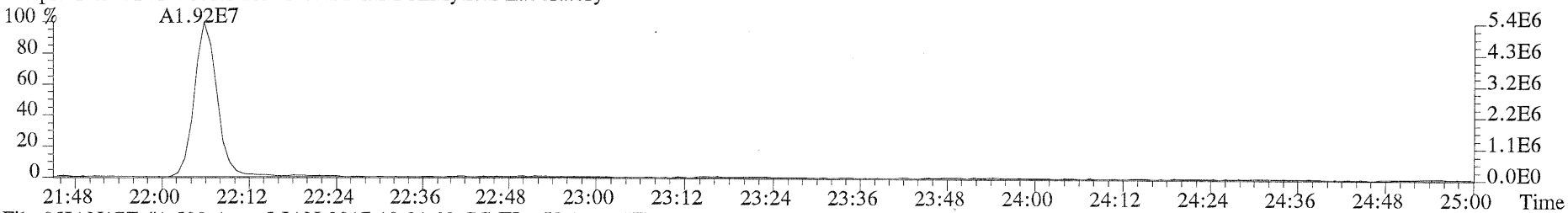
File:05JAN17Z #1-509 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



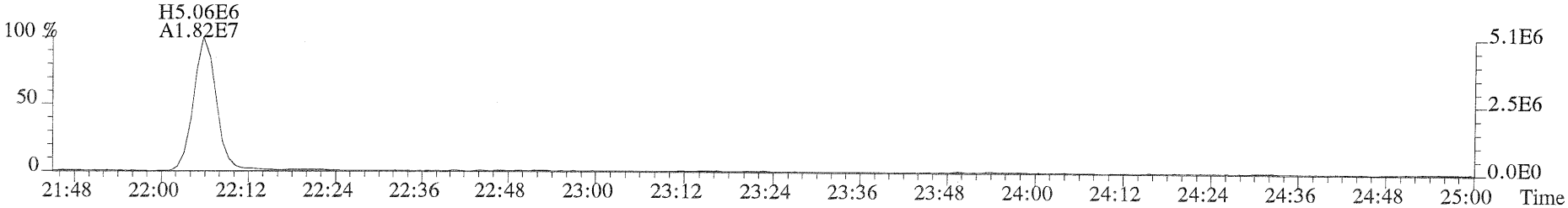
File:05JAN17Z #1-509 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



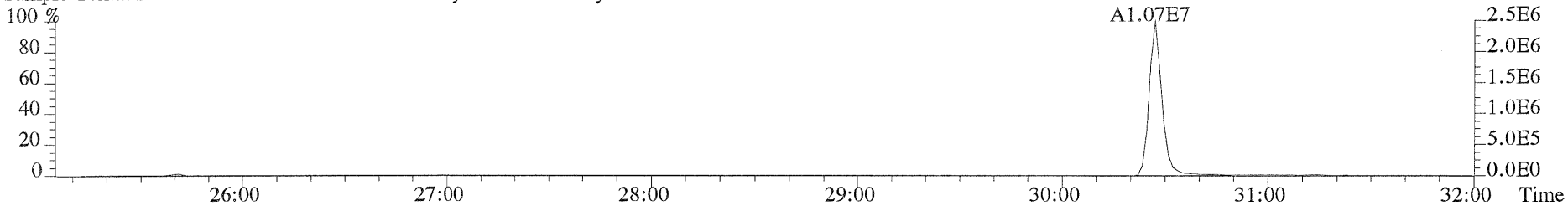
File:05JAN17Z #1-509 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



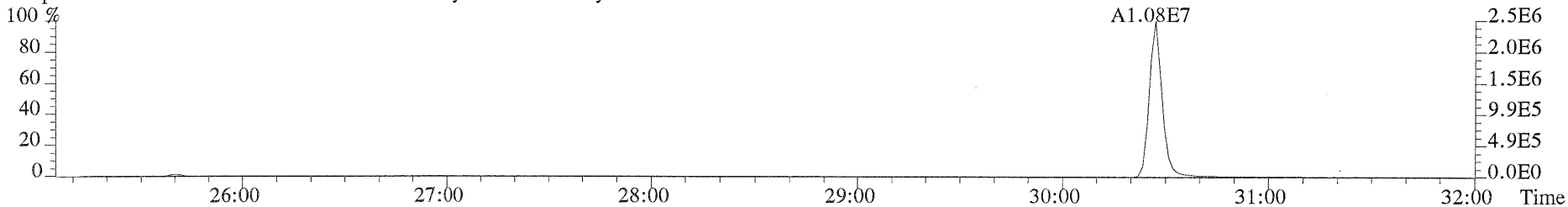
File:05JAN17Z #1-509 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



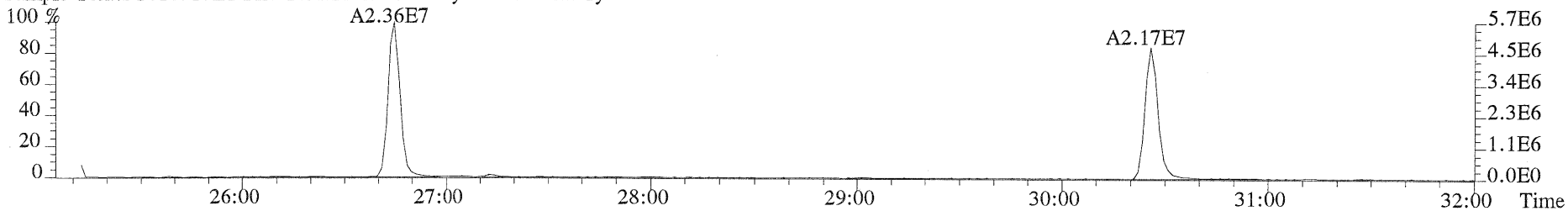
File:05JAN17Z #1-407 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



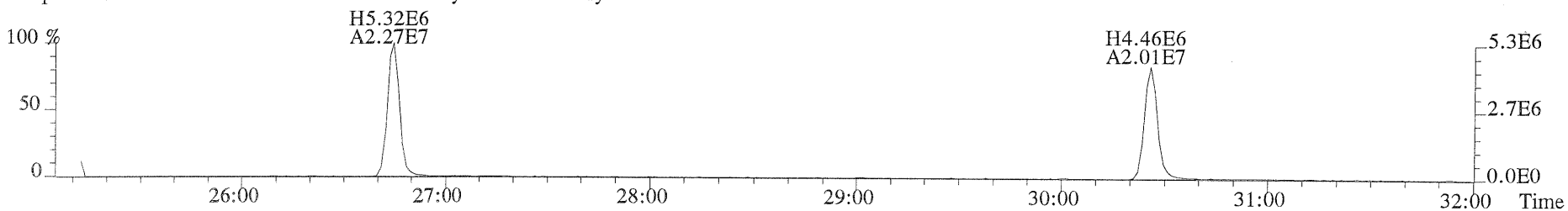
File:05JAN17Z #1-407 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



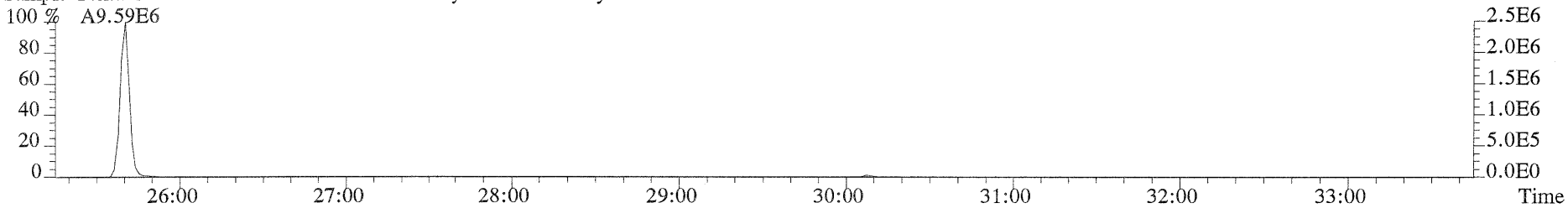
File:05JAN17Z #1-407 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



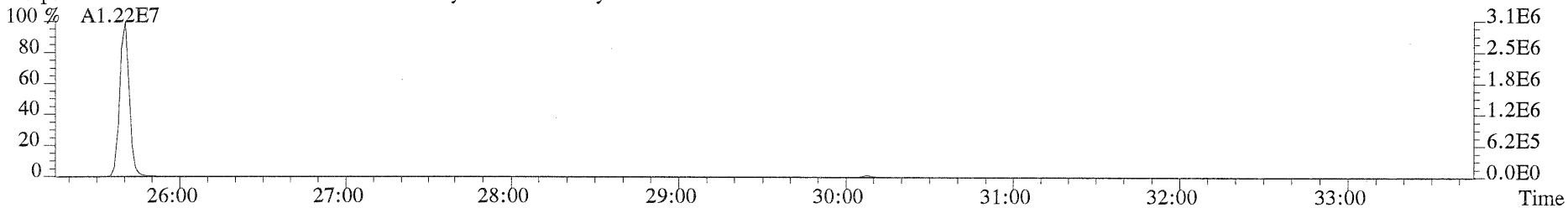
File:05JAN17Z #1-407 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



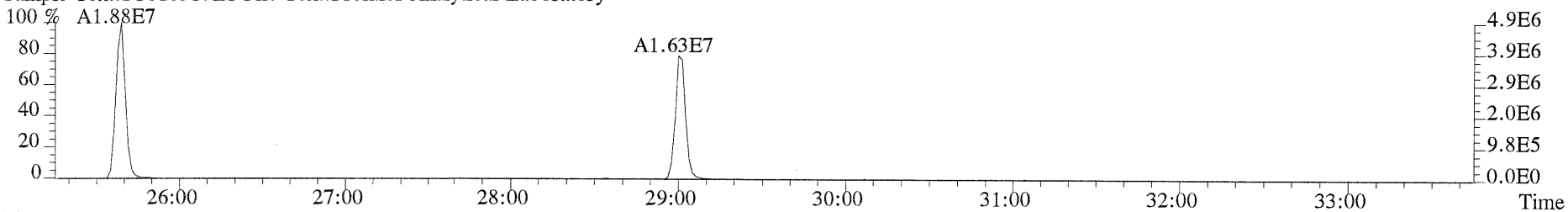
File:05JAN17Z #1-407 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



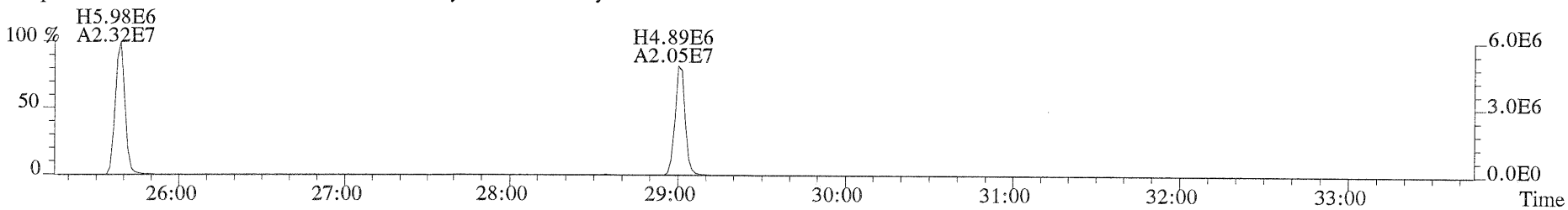
File:05JAN17Z #1-407 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



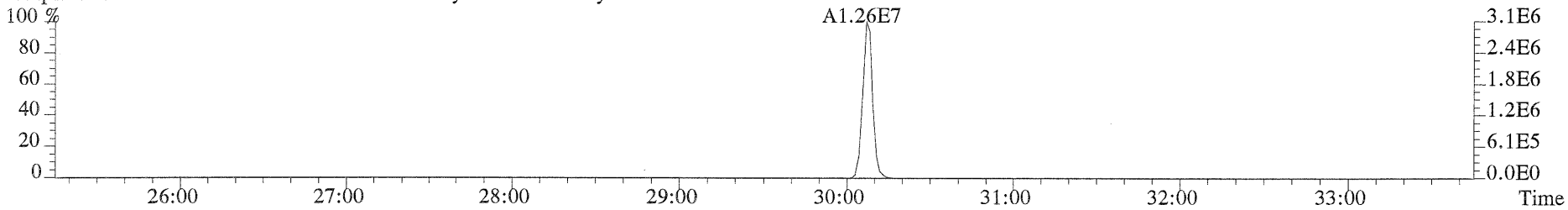
File:05JAN17Z #1-407 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



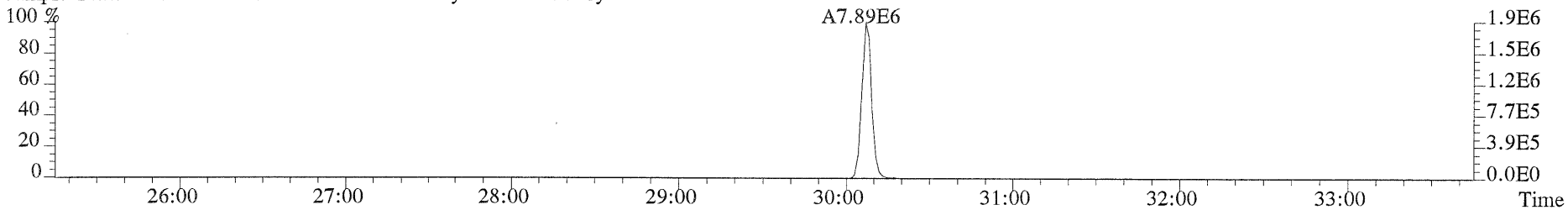
File:05JAN17Z #1-407 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



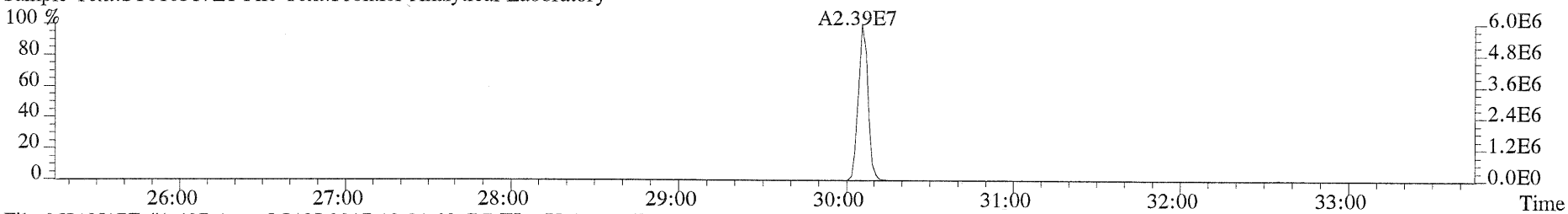
File:05JAN17Z #1-407 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



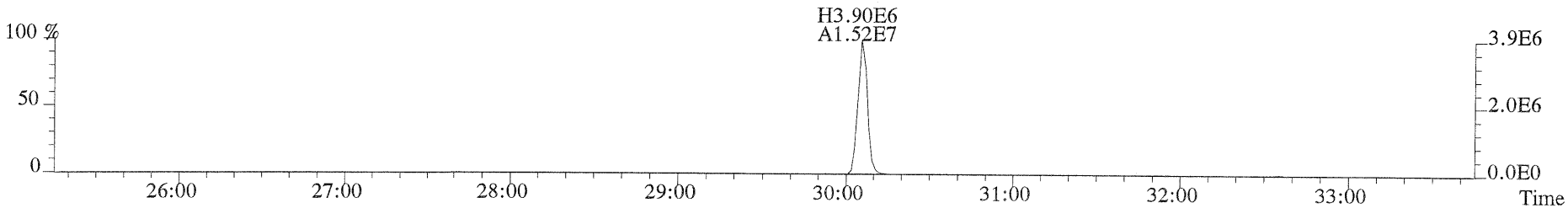
File:05JAN17Z #1-407 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



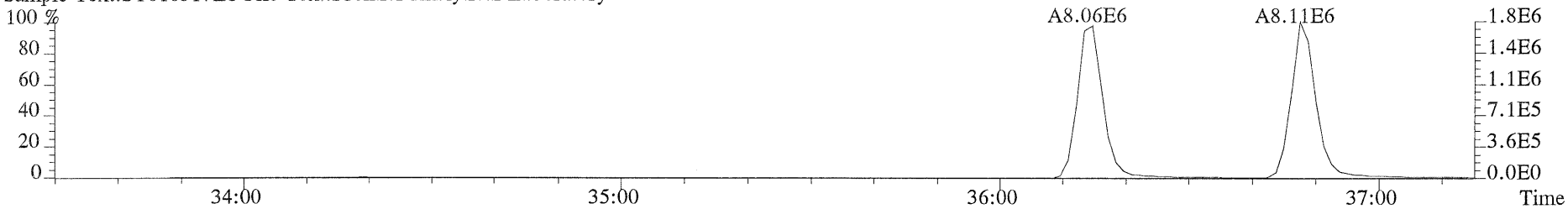
File:05JAN17Z #1-407 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



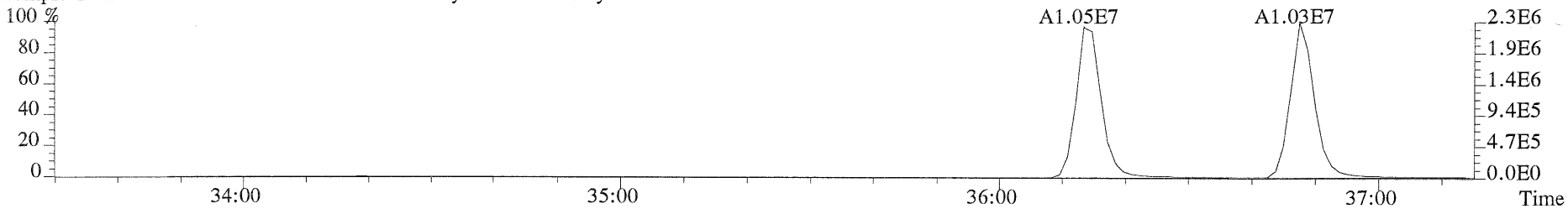
File:05JAN17Z #1-407 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



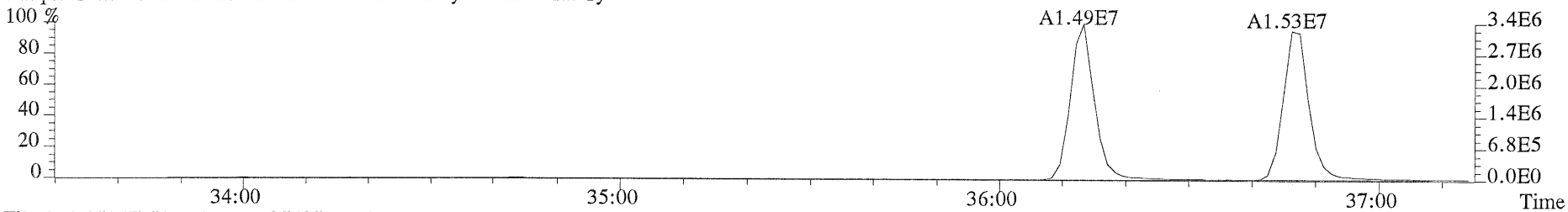
File:05JAN17Z #1-181 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



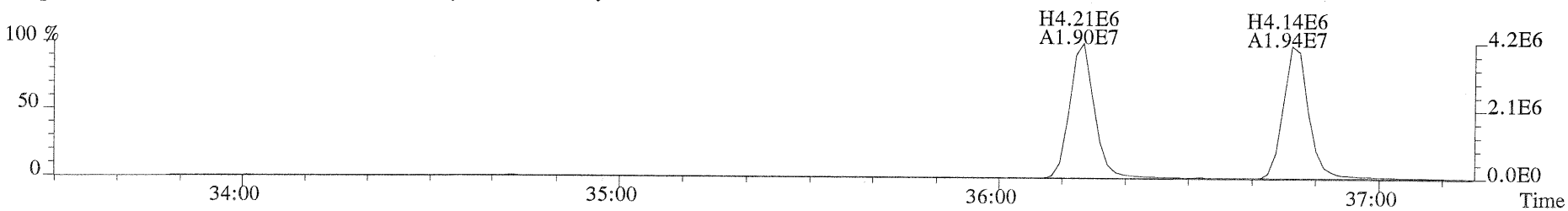
File:05JAN17Z #1-181 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



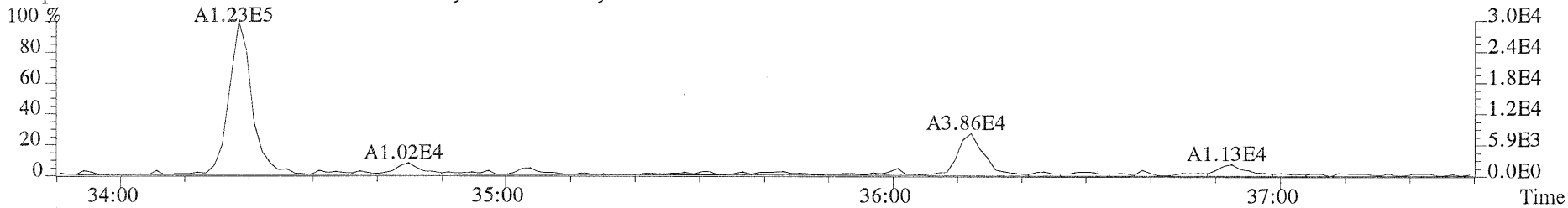
File:05JAN17Z #1-181 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



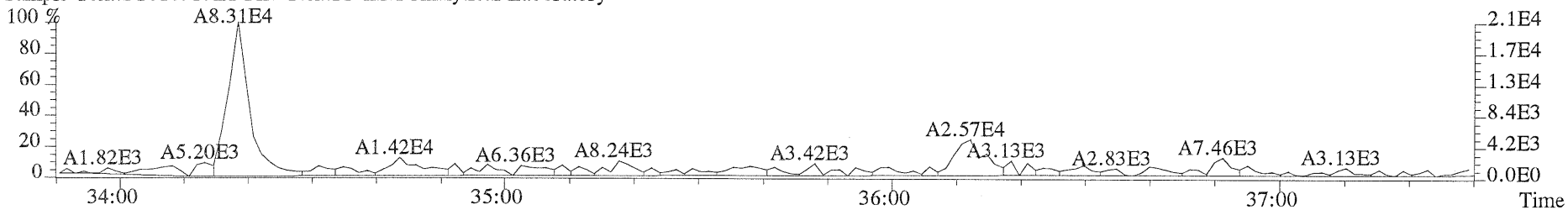
File:05JAN17Z #1-181 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



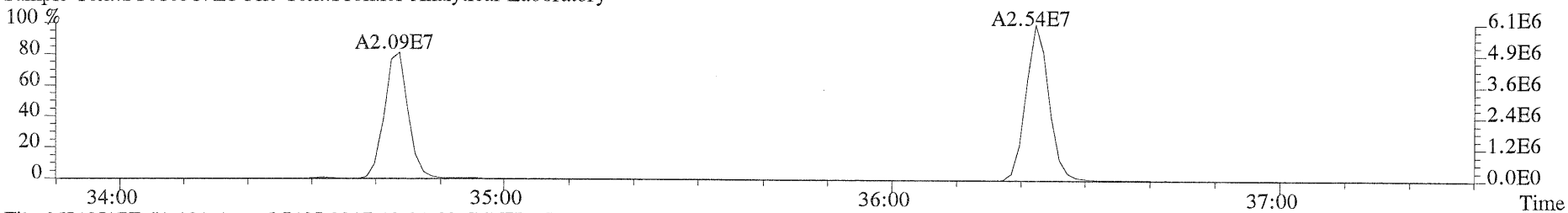
File:05JAN17Z #1-181 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
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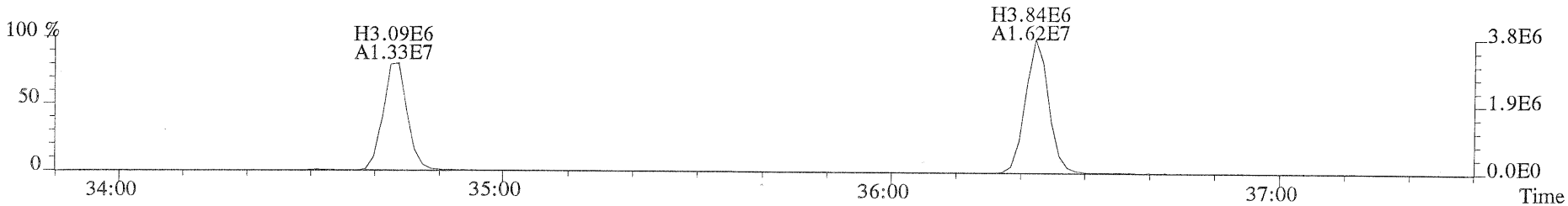
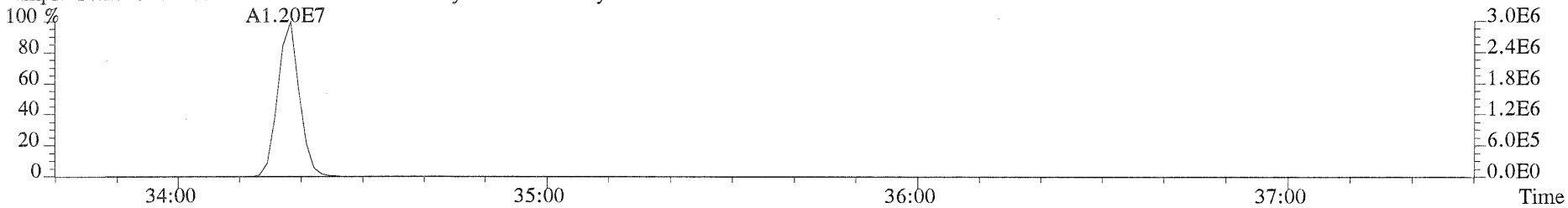
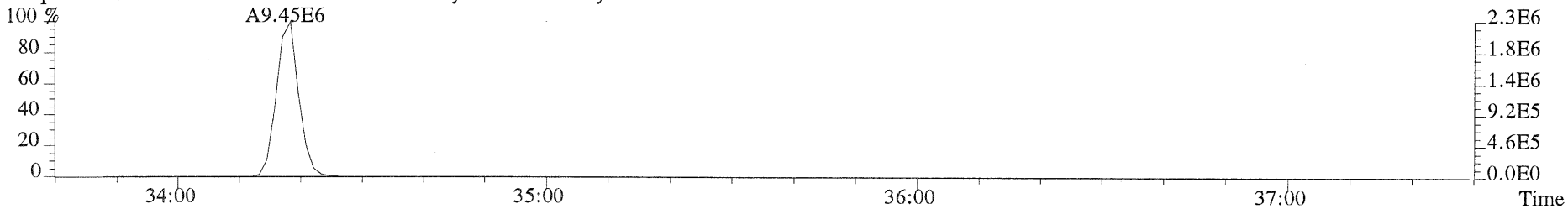
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



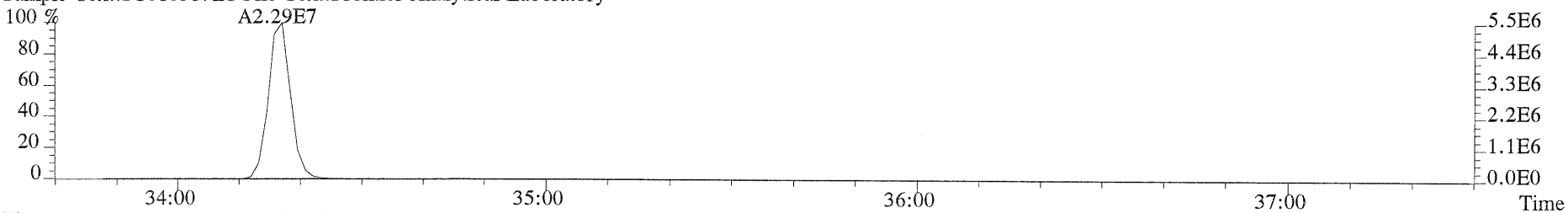
File:05JAN17Z #1-181 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



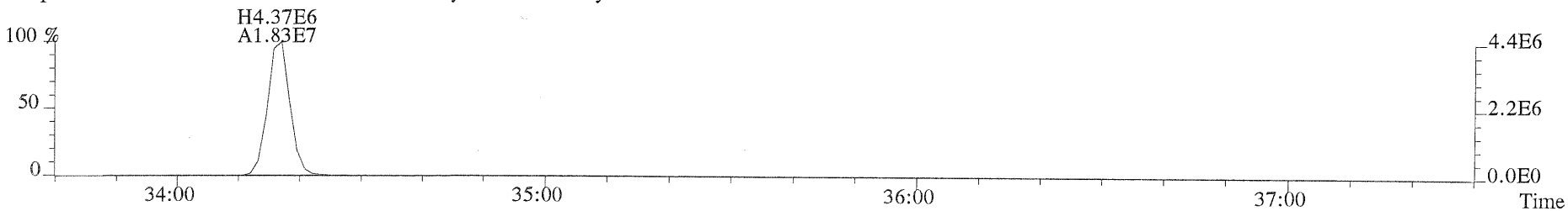
File:05JAN17Z #1-181 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



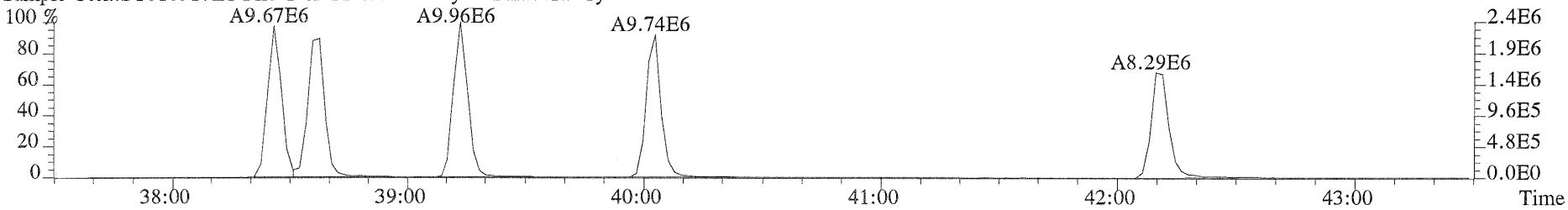
File:05JAN17Z #1-181 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



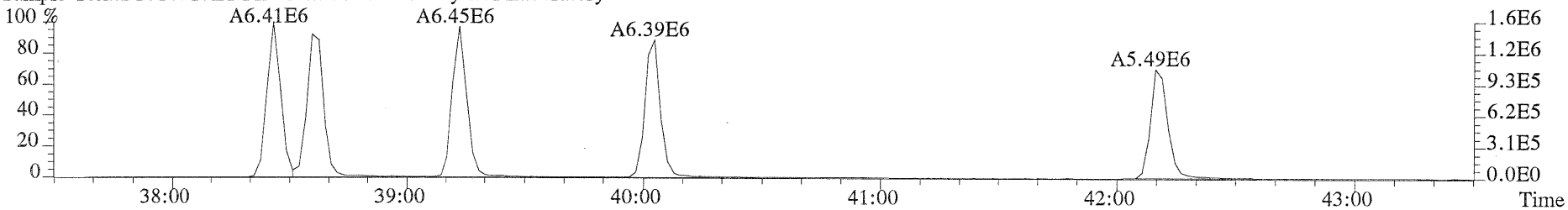
File:05JAN17Z #1-181 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



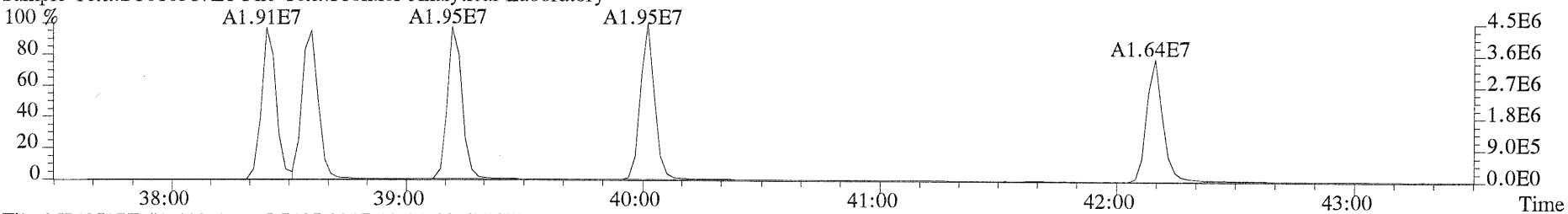
File:05JAN17Z #1-413 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



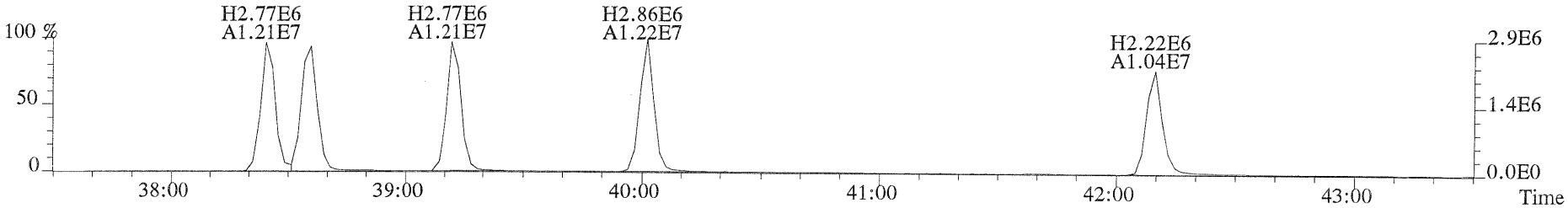
File:05JAN17Z #1-413 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



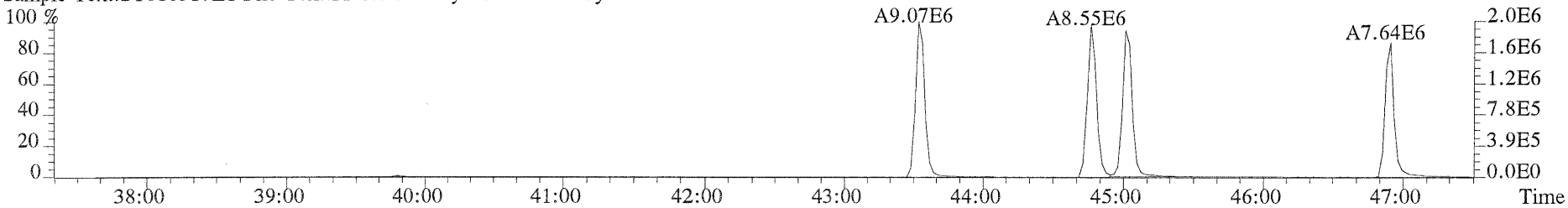
File:05JAN17Z #1-413 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



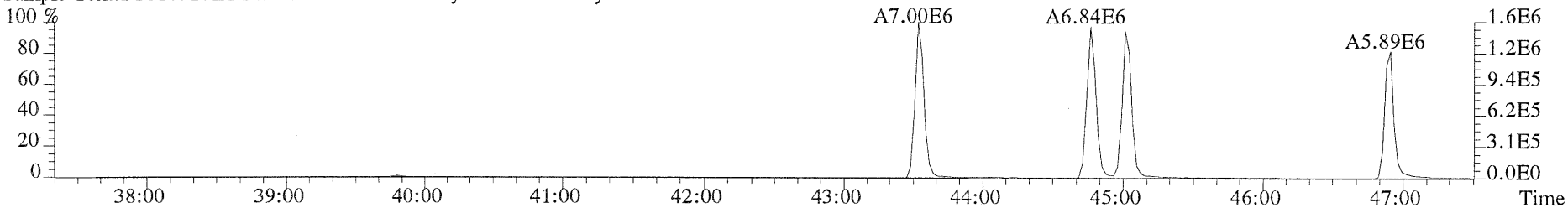
File:05JAN17Z #1-413 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



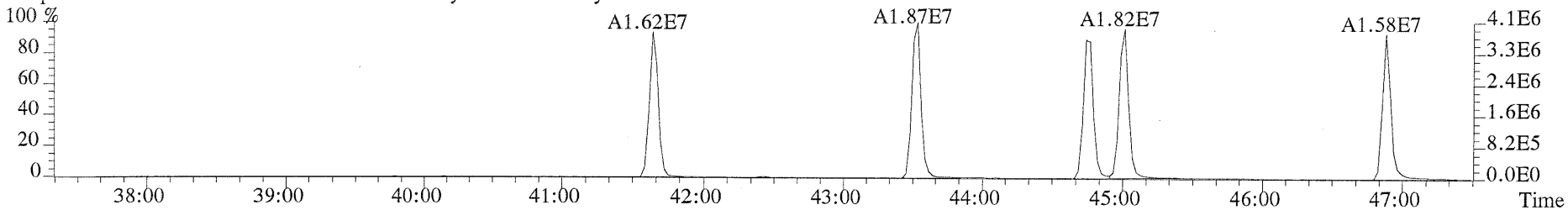
File:05JAN17Z #1-413 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



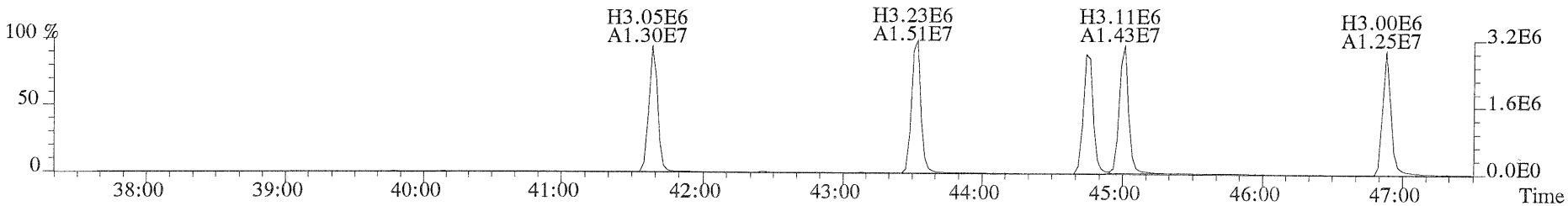
File:05JAN17Z #1-413 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



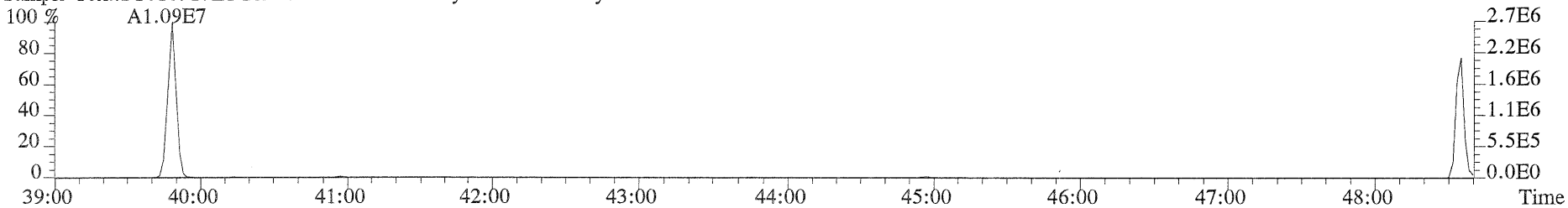
File:05JAN17Z #1-413 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



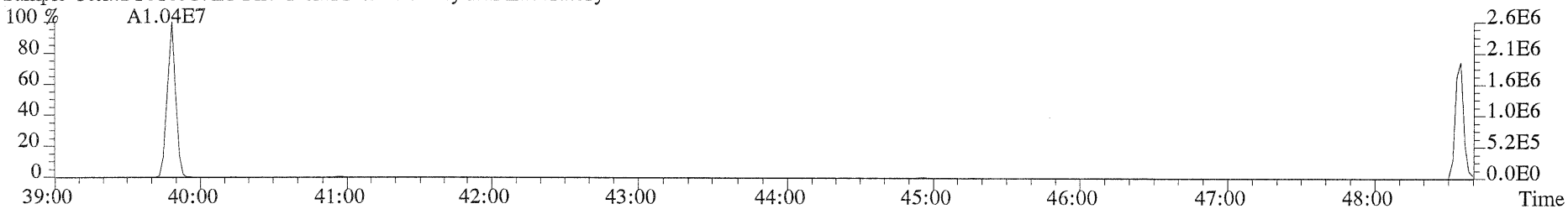
File:05JAN17Z #1-413 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



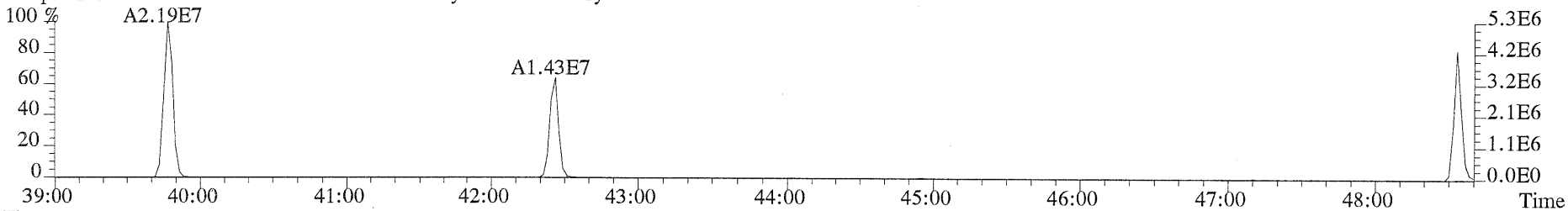
File:05JAN17Z #1-413 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



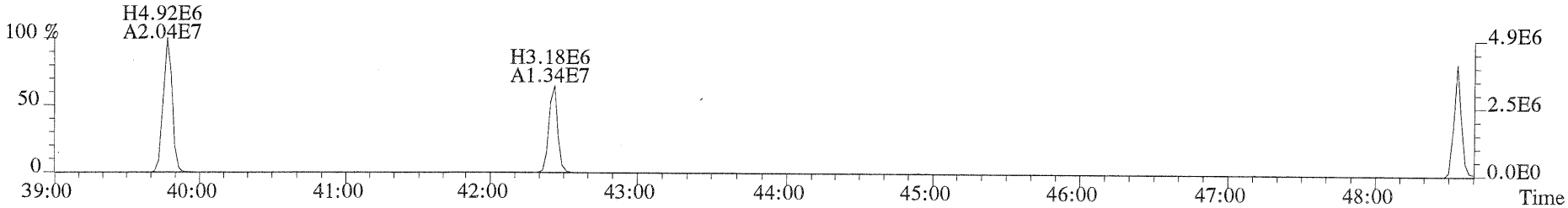
File:05JAN17Z #1-413 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



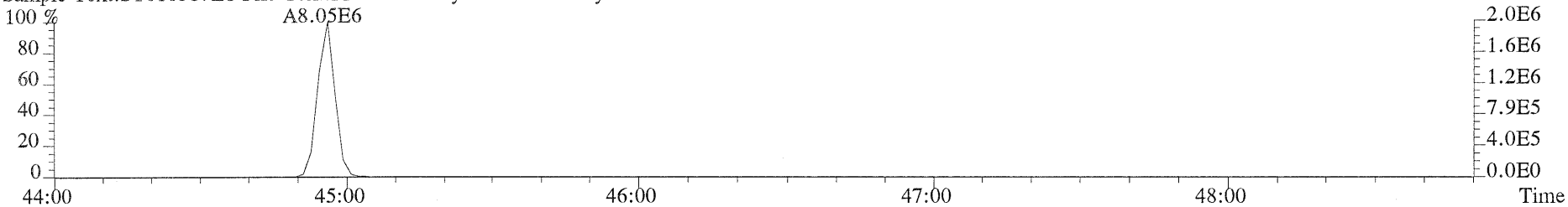
File:05JAN17Z #1-413 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



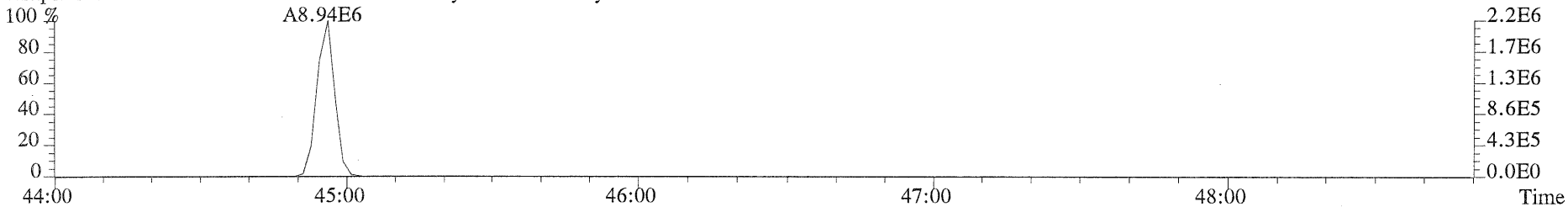
File:05JAN17Z #1-413 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



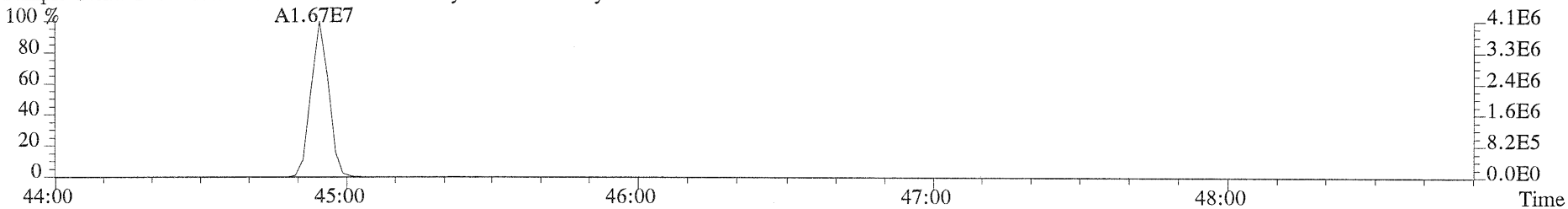
File:05JAN17Z #1-413 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



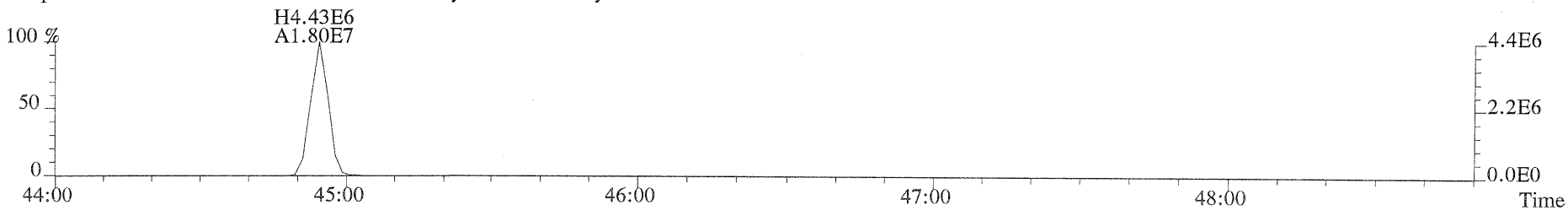
File:05JAN17Z #1-413 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



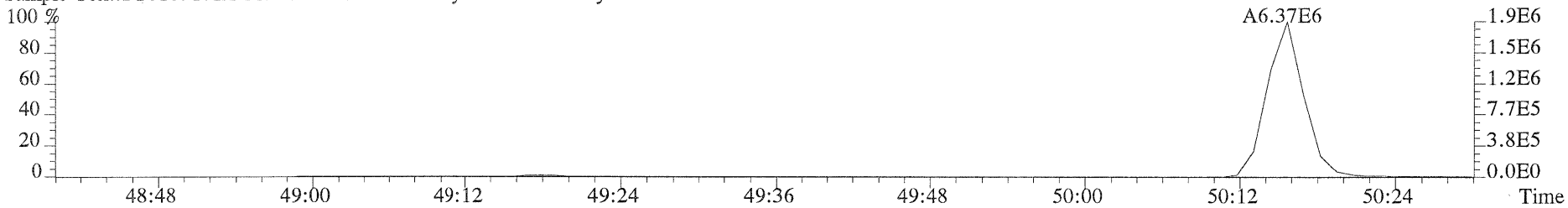
File:05JAN17Z #1-413 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



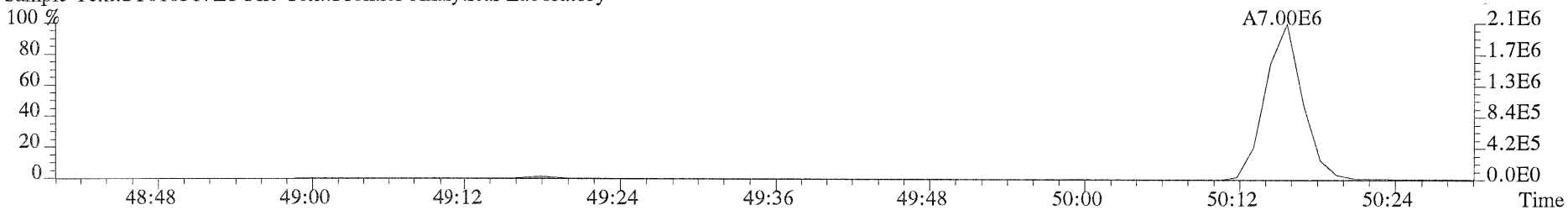
File:05JAN17Z #1-413 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



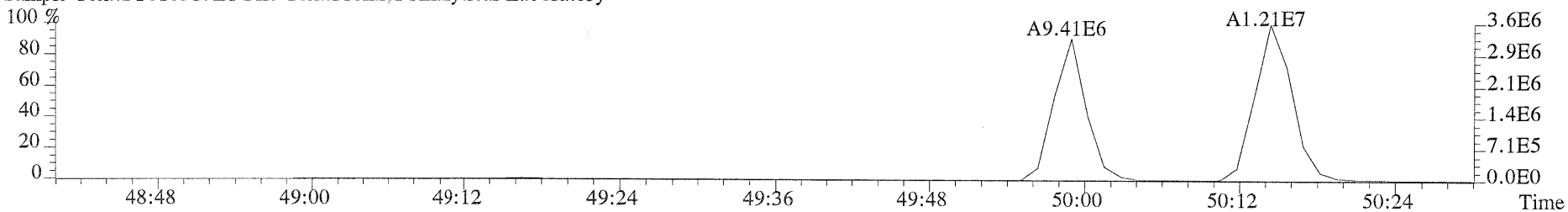
File:05JAN17Z #1-306 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



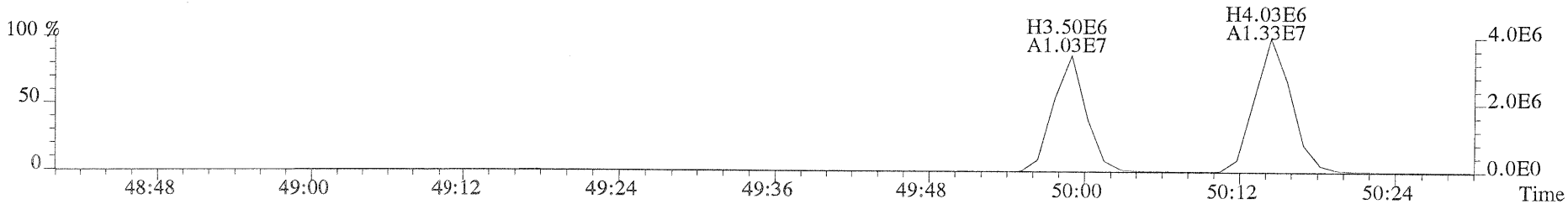
File:05JAN17Z #1-306 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



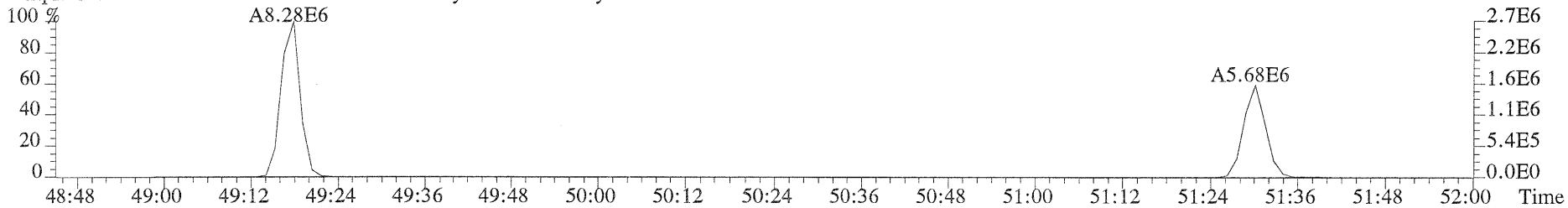
File:05JAN17Z #1-306 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



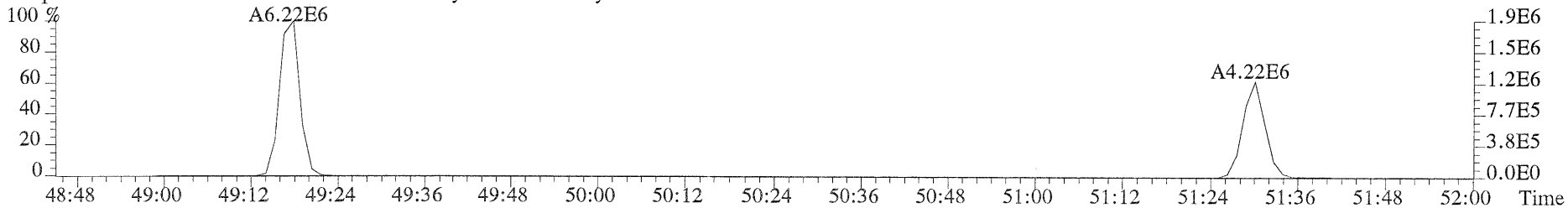
File:05JAN17Z #1-306 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



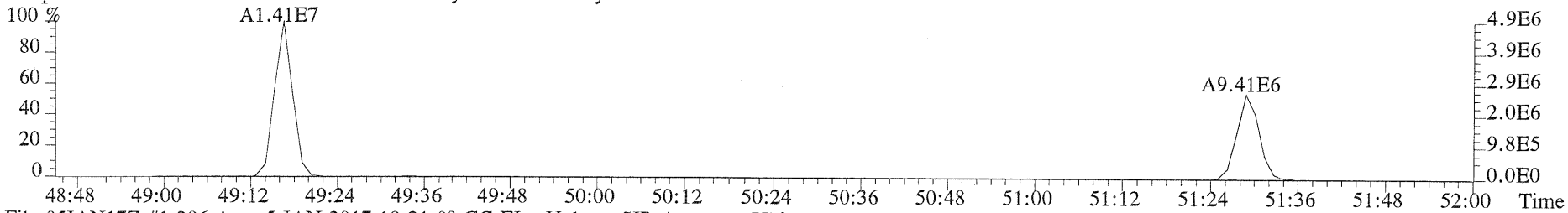
File:05JAN17Z #1-306 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



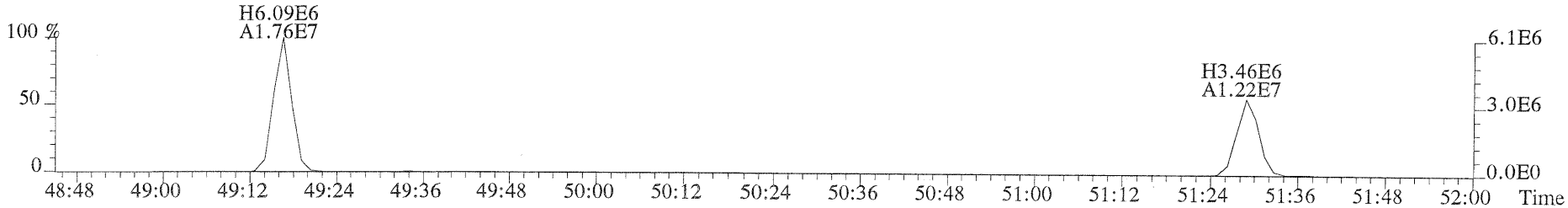
File:05JAN17Z #1-306 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



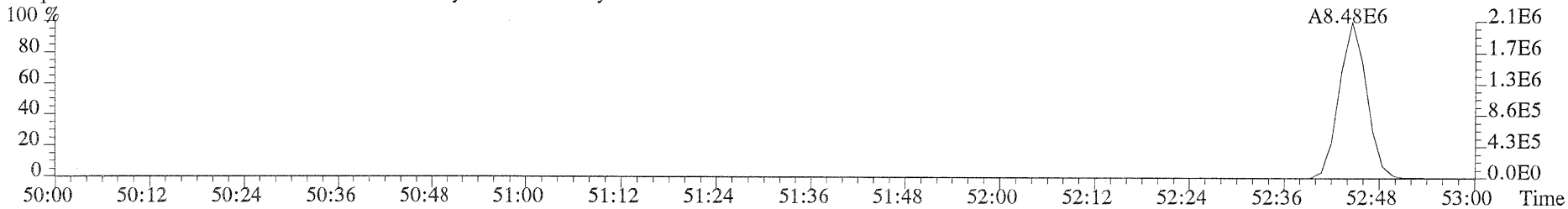
File:05JAN17Z #1-306 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



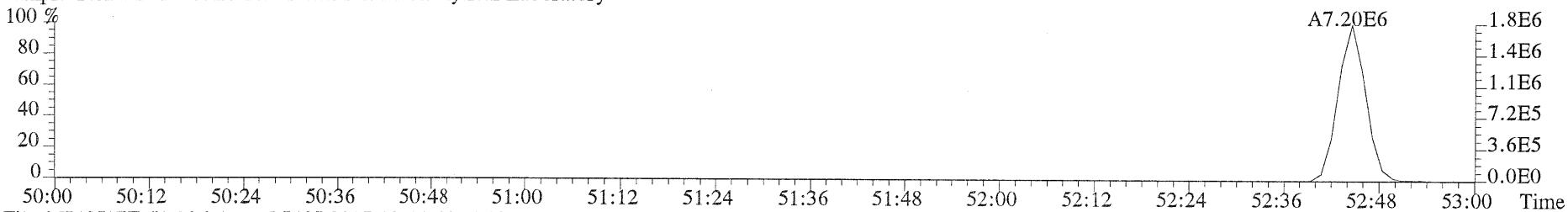
File:05JAN17Z #1-306 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



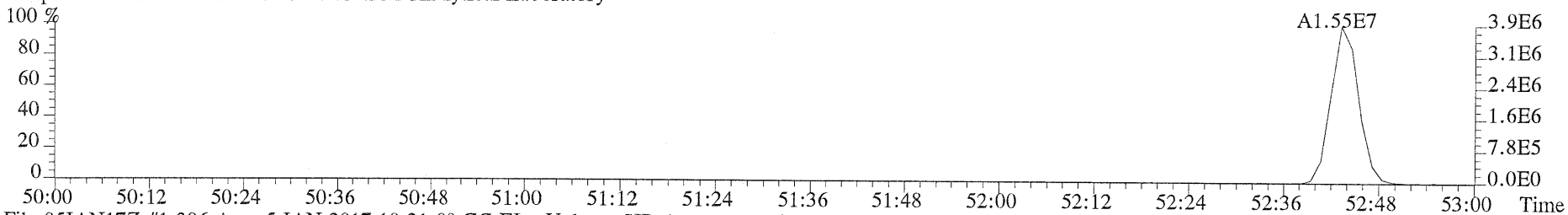
File:05JAN17Z #1-306 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



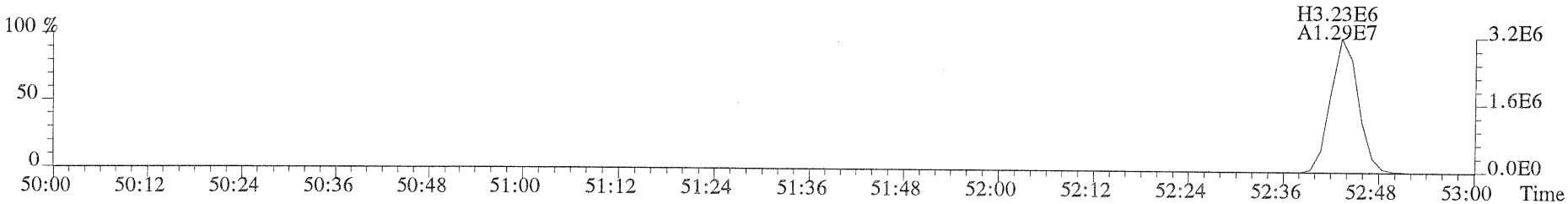
File:05JAN17Z #1-306 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory



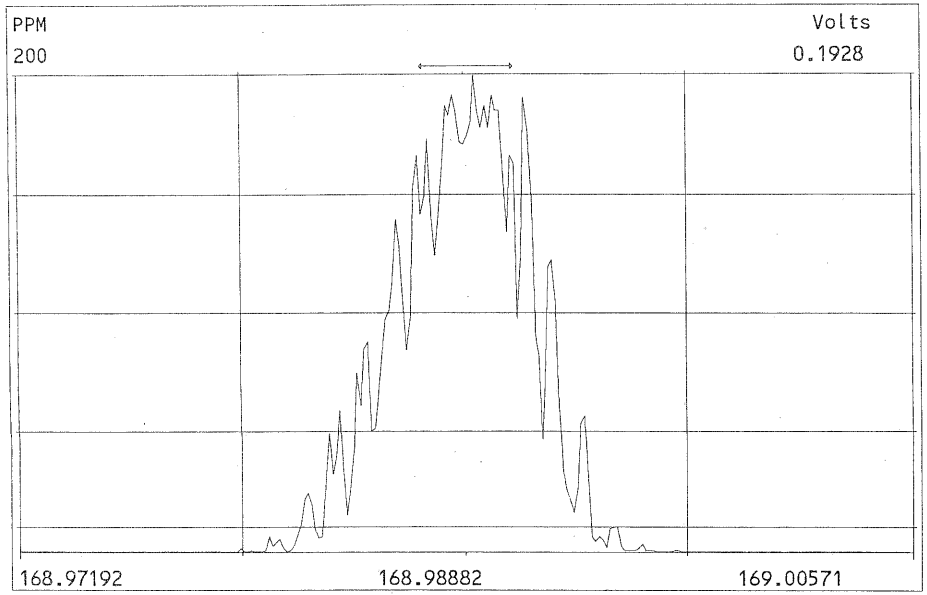
File:05JAN17Z #1-306 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory

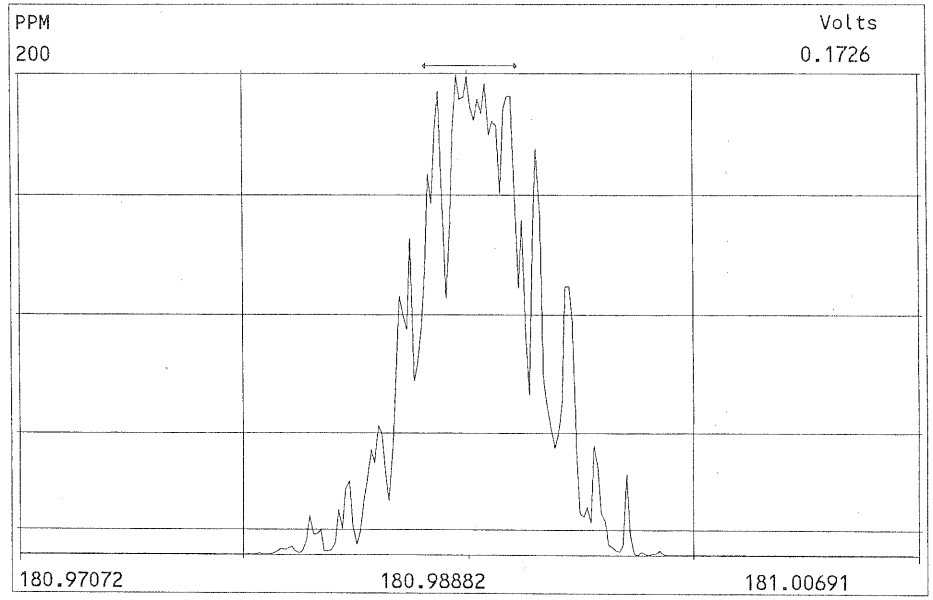


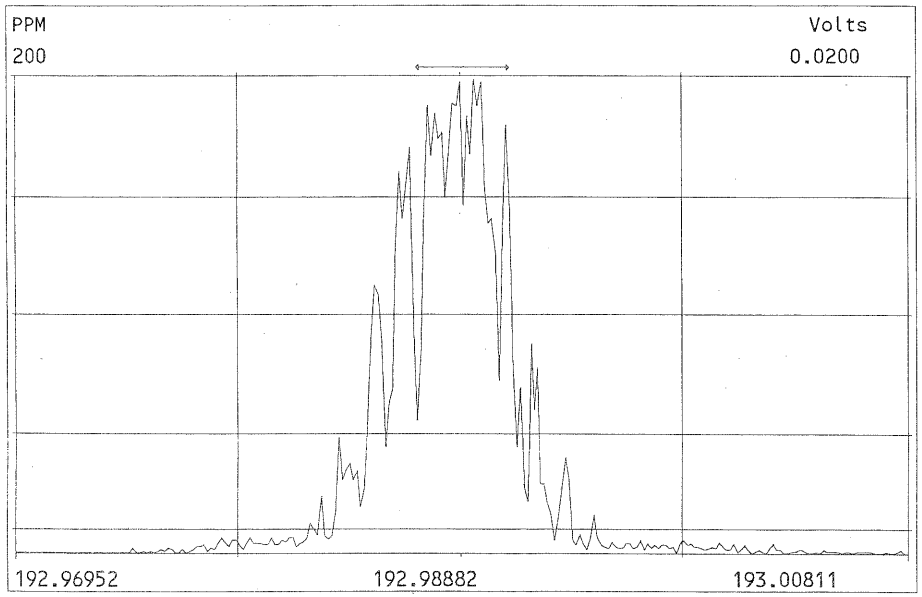
File:05JAN17Z #1-306 Acq: 5-JAN-2017 10:21:09 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z1 File Text:Frontier Analytical Laboratory

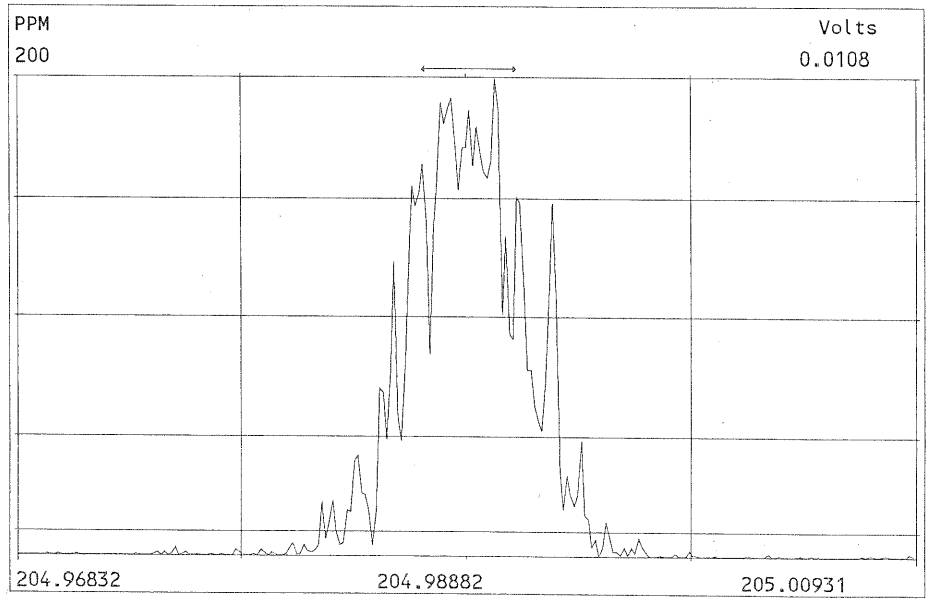


Peak Locate Examination: 6-JAN-2017:01:55 File:05JAN17Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK 82

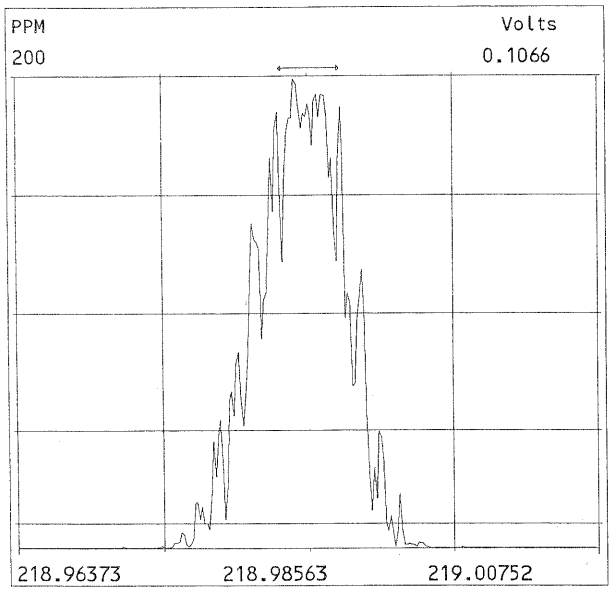


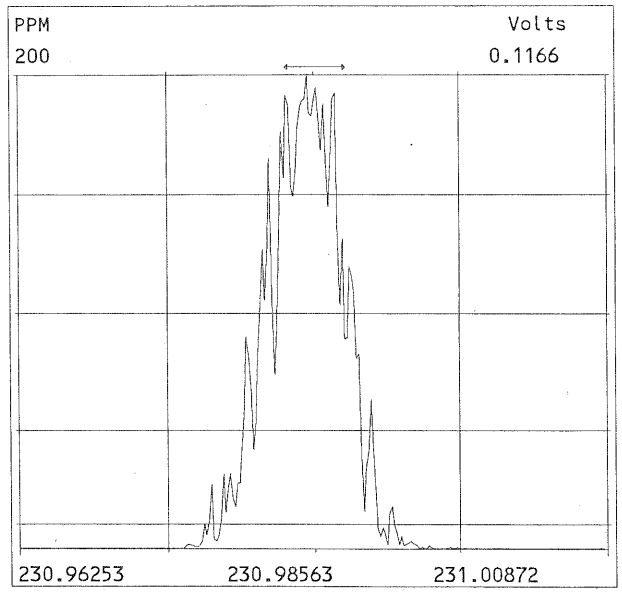


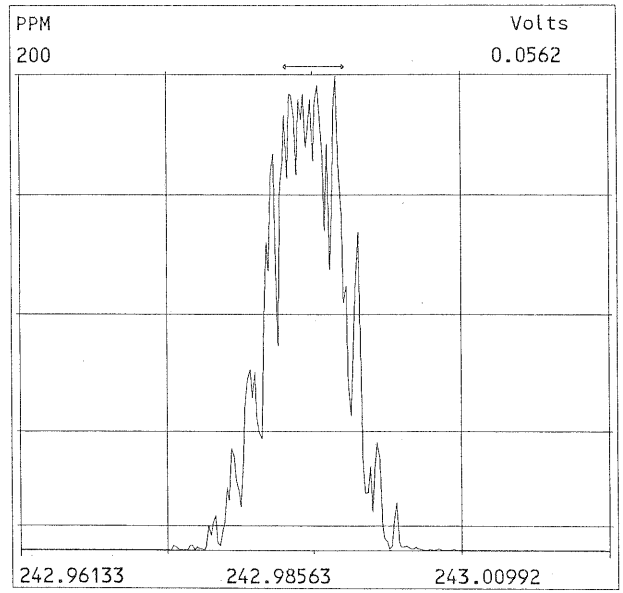


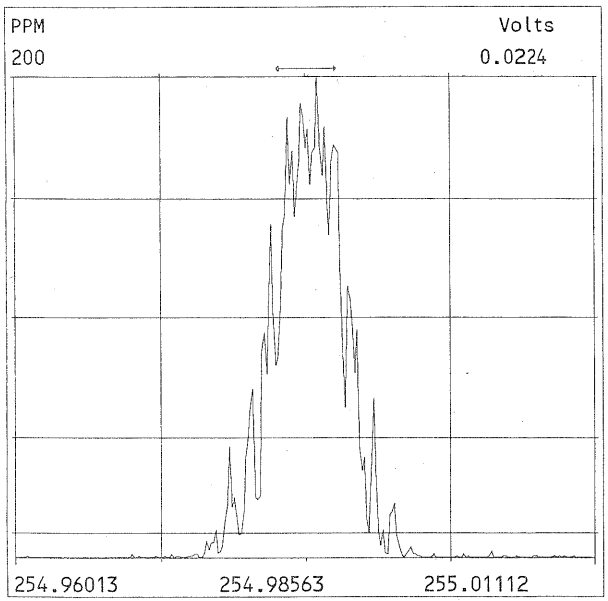


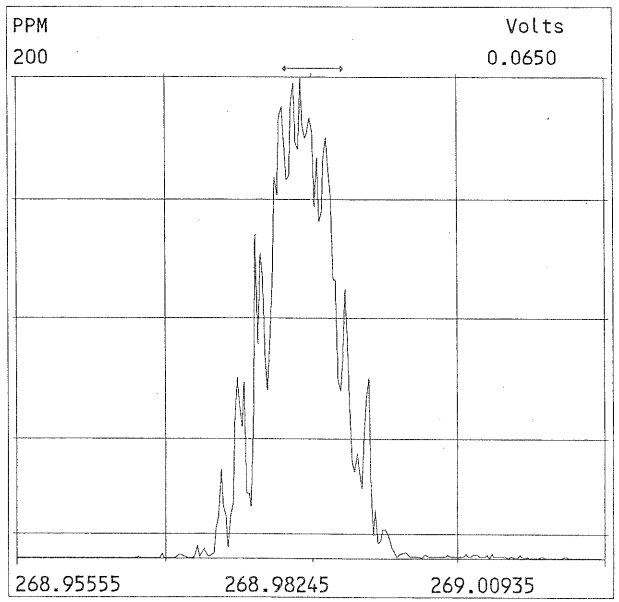
Peak Locate Examination: 6-JAN-2017:01:56 File:05JAN17Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK 82

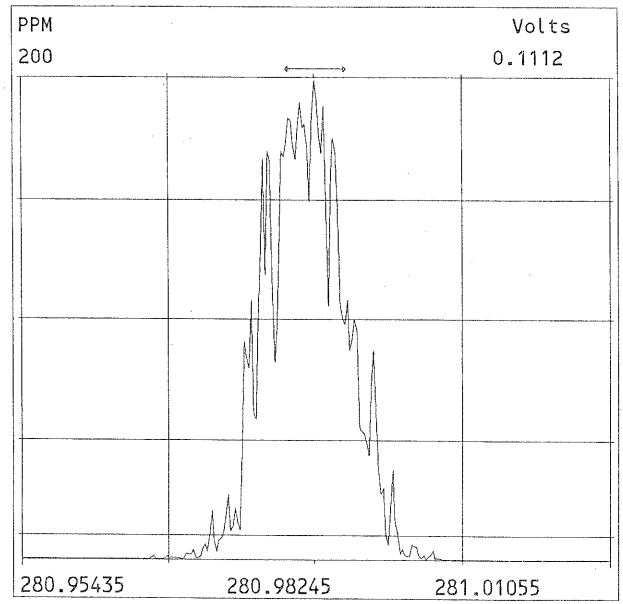




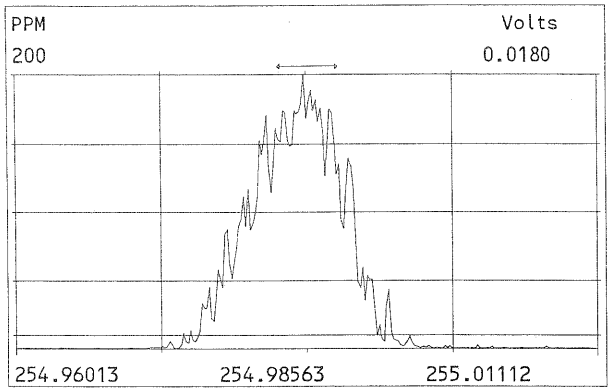


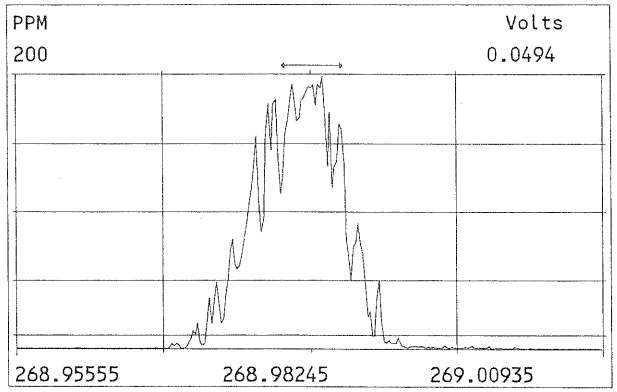


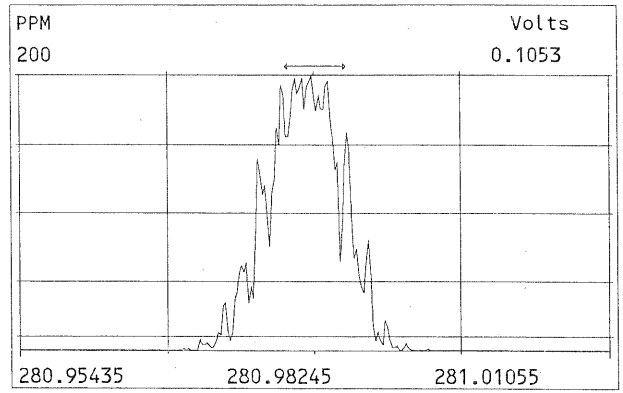


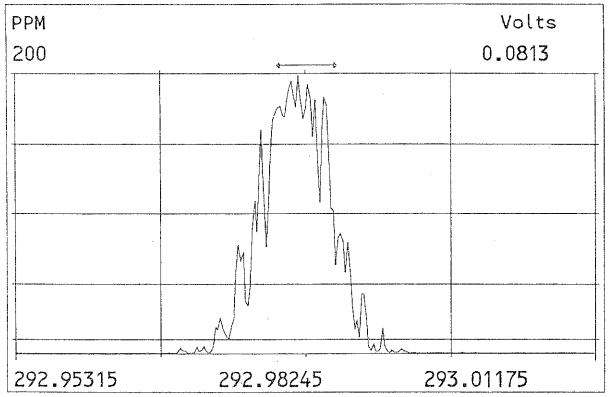


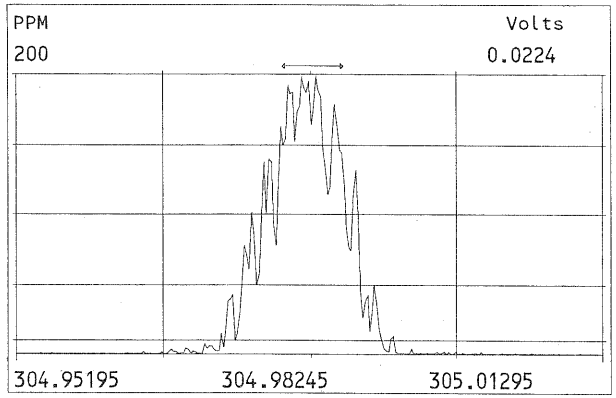
Peak Locate Examination: 6-JAN-2017:01:56 File:05JAN17Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK 8J

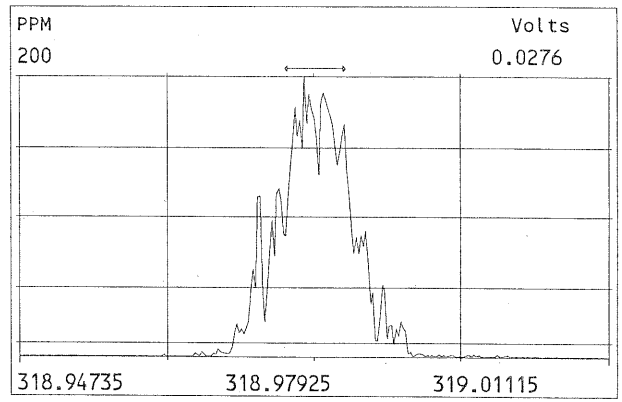


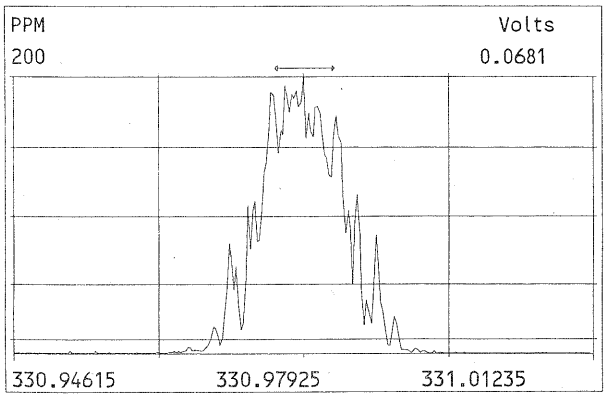


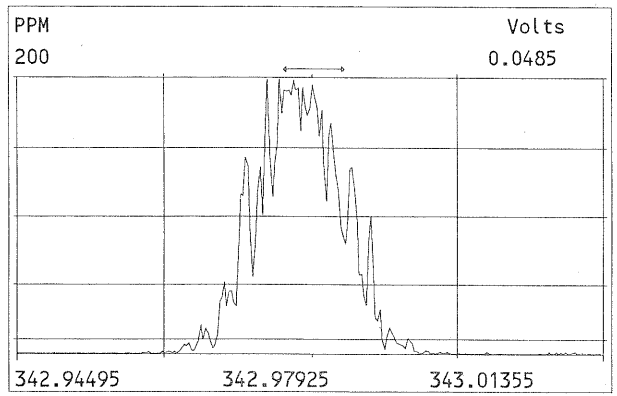




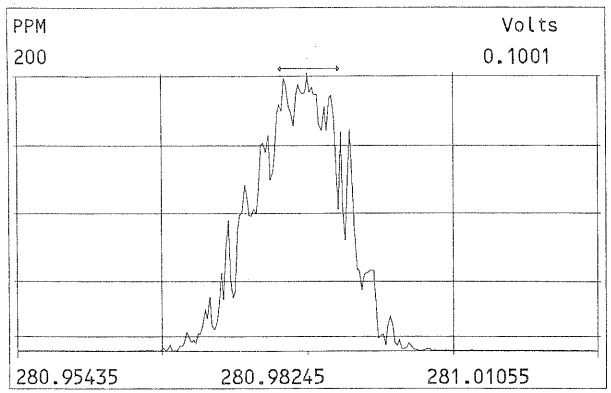


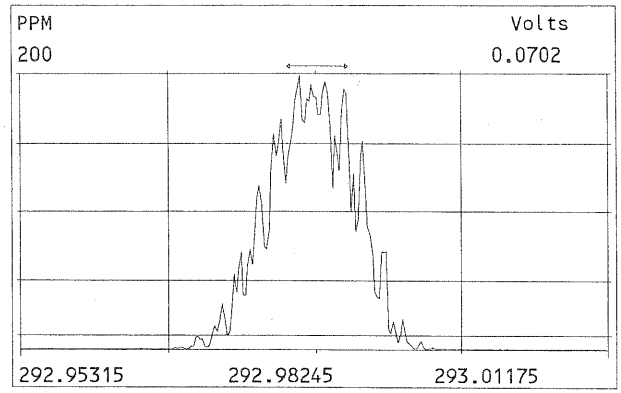


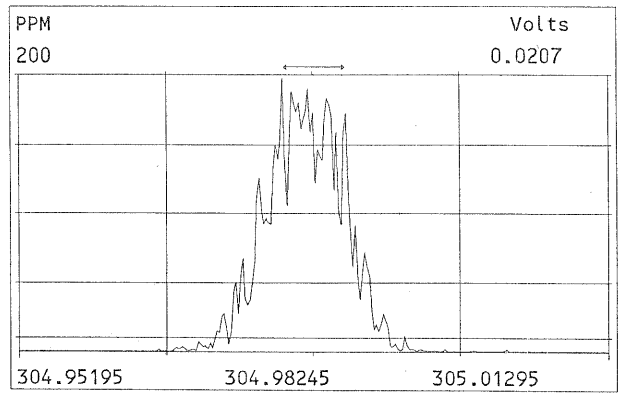


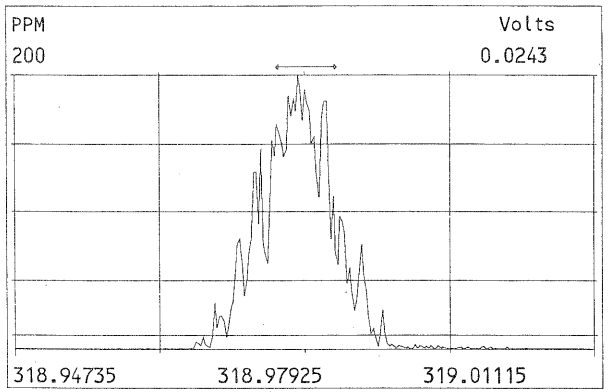


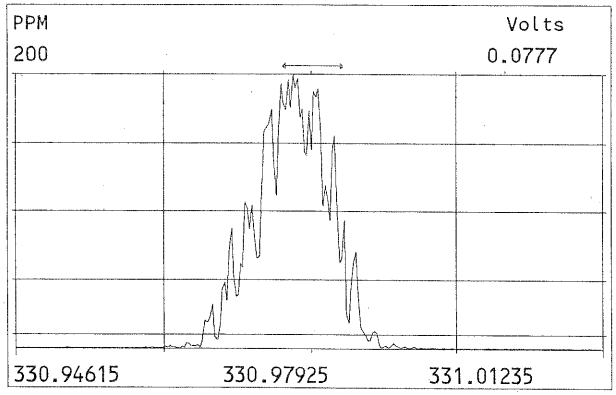
Peak Locate Examination: 6-JAN-2017:01:56 File:05JAN17Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK 82

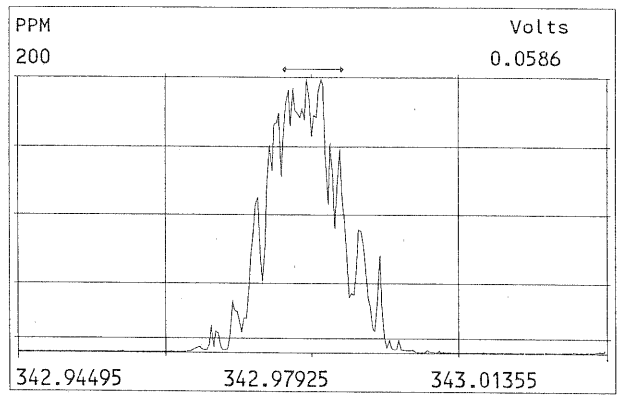


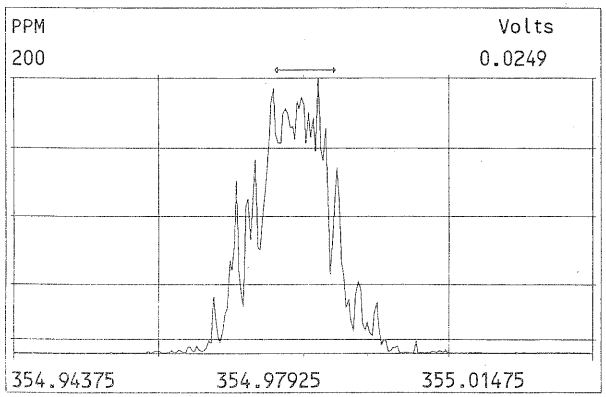


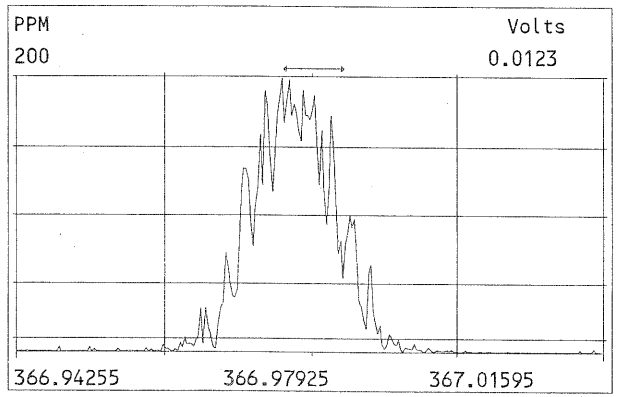


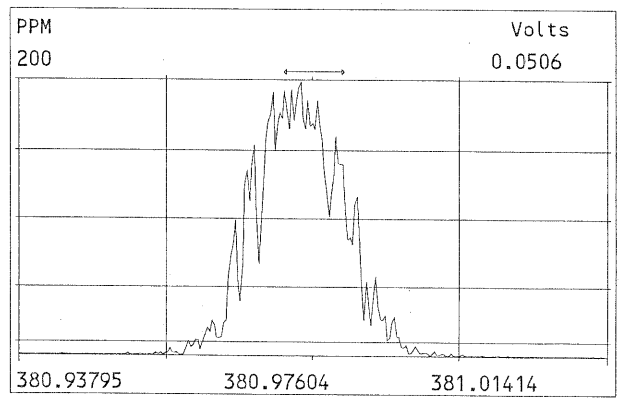




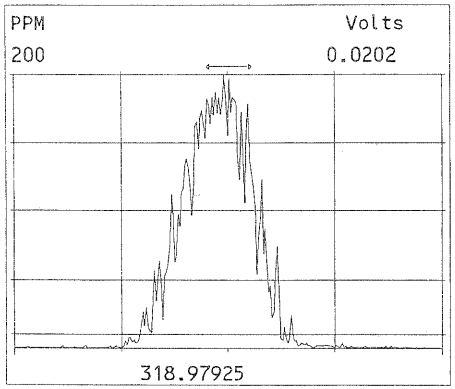


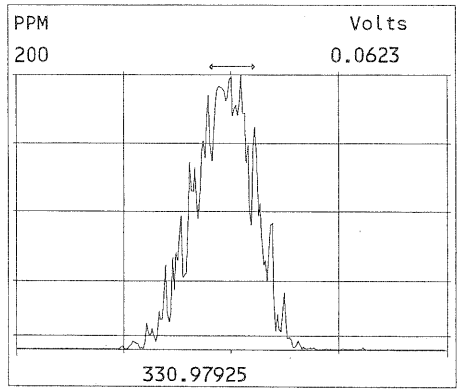


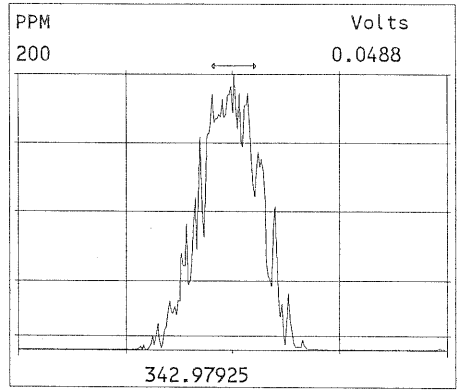


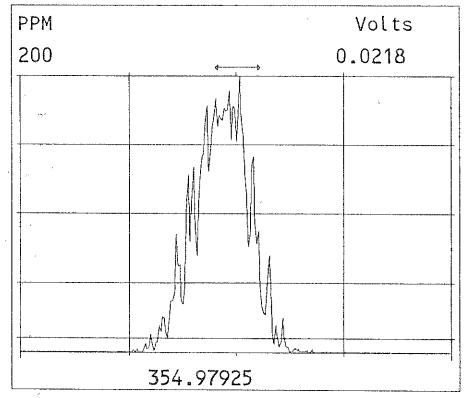


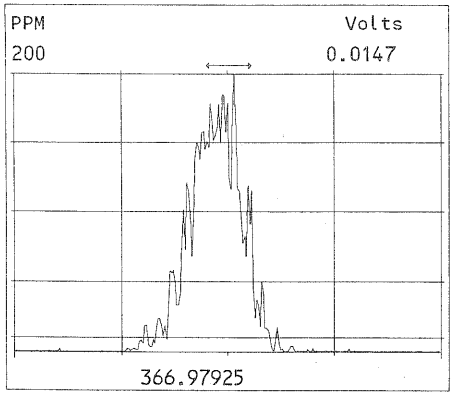
Peak Locate Examination: 6-JAN-2017:01:57 File:05JAN17Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK 8J

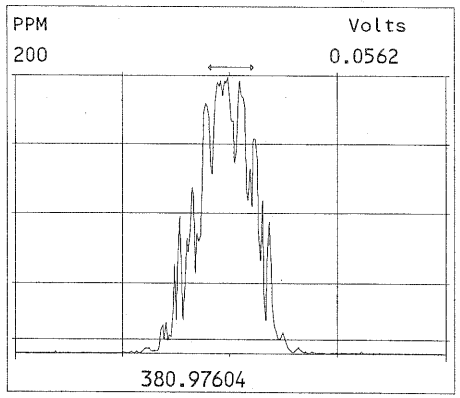


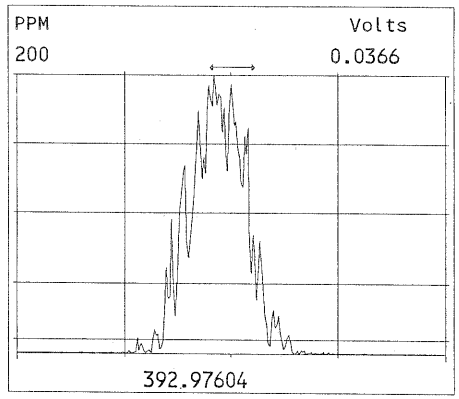


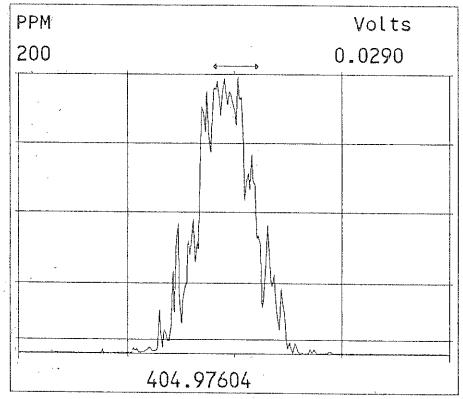


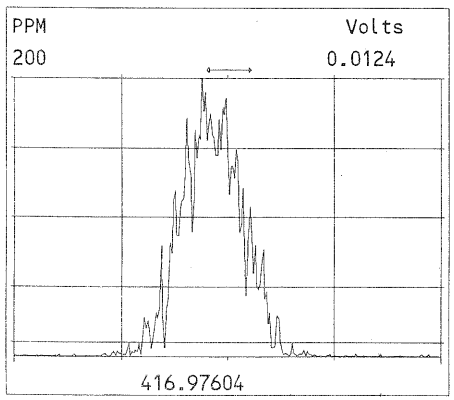


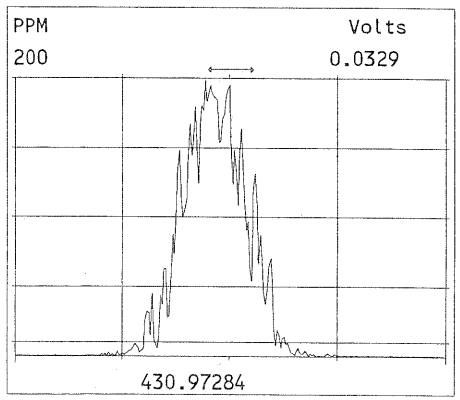


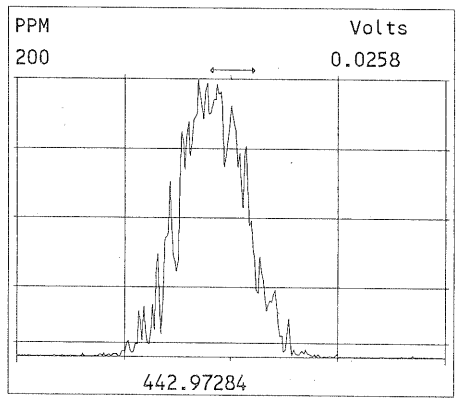




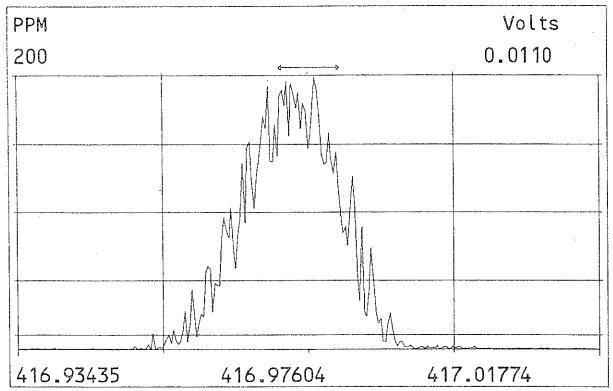


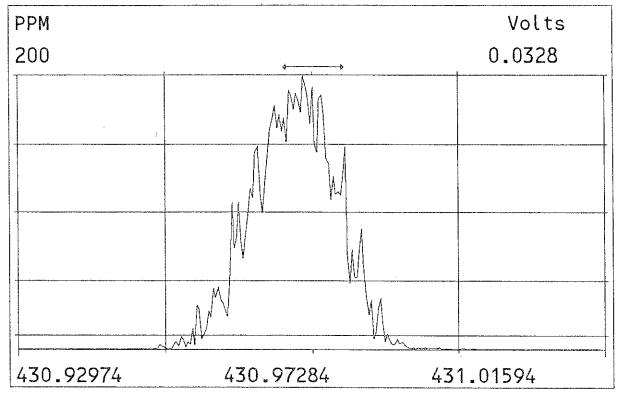


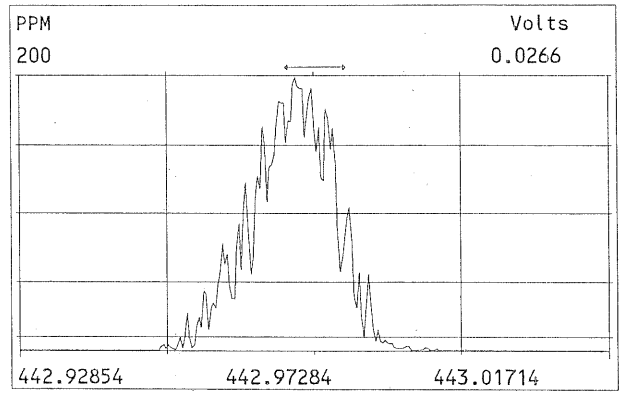


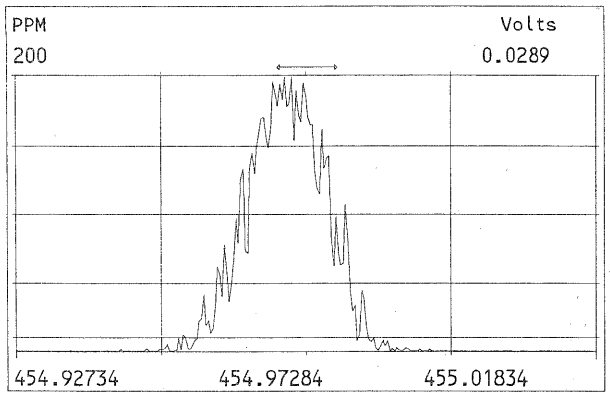


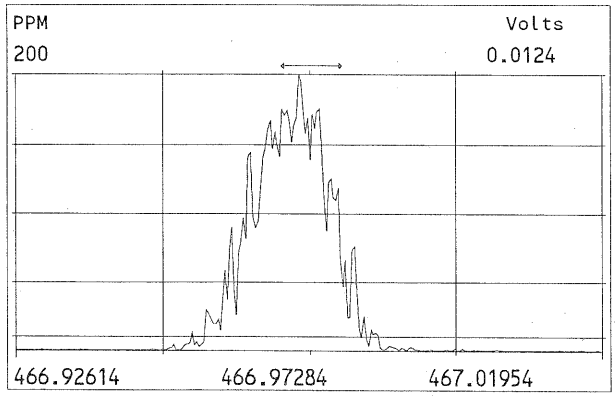
Peak Locate Examination: 6-JAN-2017:01:57 File:05JAN17Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK 8J

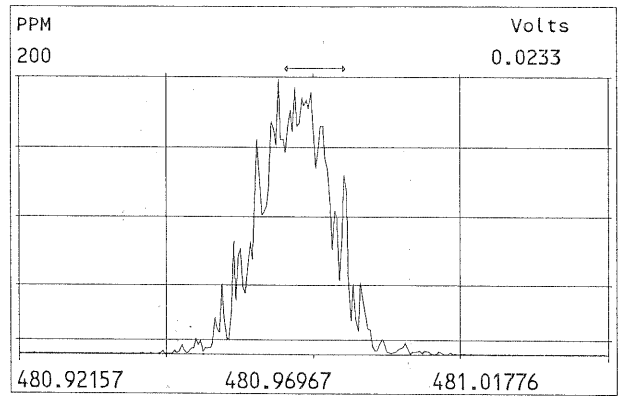


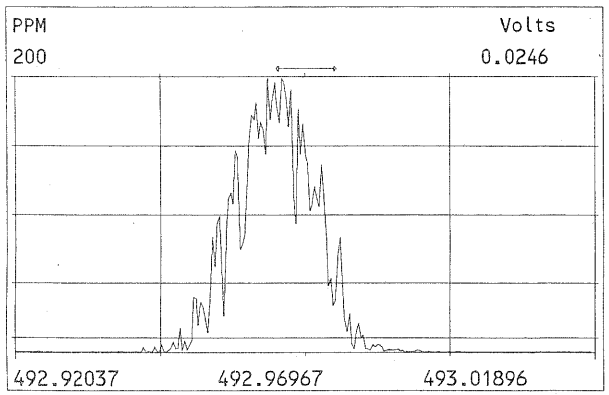


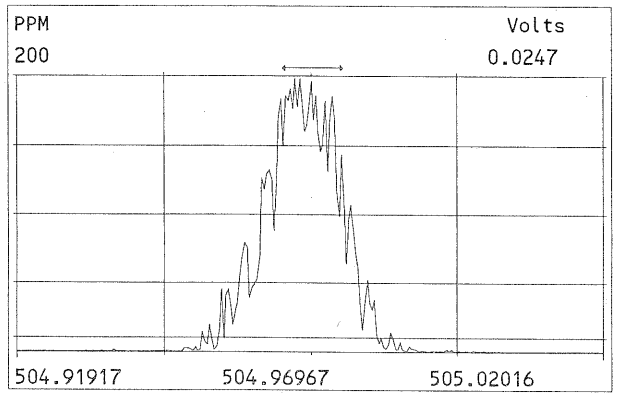


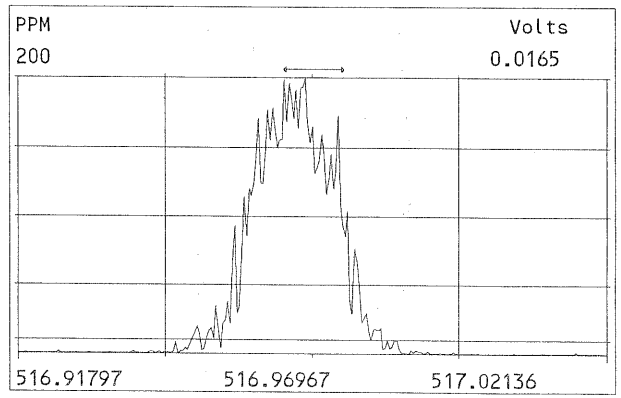












Cal: DAILY209FAL4-1-5-17

Run: 05JAN17Z Analyte: DAILY209FAL4-1-5-17 Results: 9396-10 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:05JAN17Z S2

Name	Mean RRF	S. D.	RRF#1	
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13C-PCB-1	1.0942	-	1.09	
PCB-2	0.8709	-	0.87	
PCB-3	0.9175	-	0.92	
13C-PCB-3	1.1380	-	1.14	
PCB-4	1.1692	-	1.17	
PCB-10	0.9850	-	0.99	
13C-PCB-4	0.6222	-	0.62	
PCB-9	1.1148	-	1.11	
PCB-7	1.1289	-	1.13	
PCB-6	1.1098	-	1.11	
PCB-8	1.1220	-	1.12	
PCB-5	1.0850	-	1.08	
PCB-14	1.1081	*	1.11	
PCB-11	1.0774	-	1.08	
PCB-13	1.0886	*	1.09	
PCB-12	1.0555	-	1.06	
PCB-15	0.9990	-	1.00	
13C-PCB-15	1.0316	-	1.03	
PCB-19	0.9543	-	0.95	
PCB-30	1.3869	-	1.39	
PCB-18	0.9652	-	0.97	
PCB-17	1.0383	-	1.04	
PCB-27	1.3689	-	1.37	
PCB-24	1.3689	-	1.37	
PCB-16	1.1183	-	1.12	
PCB-32	1.2468	-	1.25	
13C-PCB-19	0.6508	-	0.65	
13C-PCB-9	-	-	-	
PCB-34	0.8609	-	0.86	
PCB-23	0.9912	-	0.99	
PCB-29	1.0077	-	1.01	
PCB-26	0.9791	-	0.98	
PCB-25	1.1875	-	1.19	
PCB-31	1.0404	-	1.04	
PCB-28	1.0993	-	1.10	
PCB-20	1.0366	-	1.04	Co-elute PCB 21/33
PCB-21	1.0366	-	1.04	Co-elute PCB 20/33
PCB-33	1.0366	-	1.04	Co-elute PCB 20/21
PCB-22	1.0328	-	1.03	
PCB-36	0.9870	-	0.99	
PCB-39	0.9871	-	0.99	
PCB-38	1.0006	-	1.00	
PCB-35	0.9363	-	0.94	
PCB-37	1.0570	-	1.06	
13C-PCB-37	1.1775	-	1.18	

PCB-54	0.9918	-	0.99	
PCB-50	0.7689	-	0.77	
PCB-53	0.7679	-	0.77	
PCB-51	0.7835	*	0.78	
PCB-45	0.6815	-	0.68	
PCB-46	0.6425	-	0.64	
PCB-52	1.0130	-	1.01	Co-elute PCB 69
PCB-69	1.0130	-	1.01	Co-elute PCB 52
PCB-73	0.8948	-	0.89	
PCB-43	0.7610	-	0.76	Co-elute PCB 49
PCB-49	0.7610	-	0.76	Co-elute PCB 43
PCB-47	0.9492	-	0.95	
PCB-48	0.9622	-	0.96	Co-elute PCB 75
PCB-75	0.9622	-	0.96	Co-elute PCB 48
PCB-65	0.9982	-	1.00	
PCB-62	0.9289	-	0.93	
PCB-44	0.6926	-	0.69	
PCB-42	0.9424	-	0.94	Co-elute PCB 59
PCB-59	0.9424	-	0.94	Co-elute PCB 42
PCB-72	1.0213	-	1.02	Co-elute PCB 41/71/64
PCB-41	1.0213	-	1.02	Co-elute PCB 72/71/64
PCB-71	1.0213	-	1.02	Co-elute PCB 72/41/64
PCB-64	1.0213	-	1.02	Co-elute PCB 72/41/71
PCB-68	1.0984	-	1.10	
PCB-40	0.5914	-	0.59	
PCB-57	1.0385	-	1.04	
PCB-67	0.9789	-	0.98	
PCB-58	1.1062	-	1.11	
PCB-63	1.0281	-	1.03	
PCB-74	1.0727	-	1.07	
PCB-61	1.1198	-	1.12	Co-elute PCB 70
PCB-70	1.1198	-	1.12	Co-elute PCB 61
PCB-76	1.0656	-	1.07	Co-elute PCB 66
PCB-66	1.0656	-	1.07	Co-elute PCB 76
PCB-80	1.1857	-	1.19	
PCB-55	1.0609	-	1.06	
13C-PCB-54	1.0531	-	1.05	
PCB-104	1.0415	-	1.04	
PCB-96	0.9776	-	0.98	
PCB-103	0.8334	-	0.83	
PCB-100	0.8232	-	0.82	
PCB-94	0.6826	-	0.68	
PCB-98	0.8723	-	0.87	Co-elute PCB 102
PCB-102	0.8723	-	0.87	Co-elute PCB 98
PCB-95	0.7091	-	0.71	
PCB-93	0.6725	-	0.67	
PCB-88	0.7730	-	0.77	Co-elute PCB 91
PCB-91	0.7730	-	0.77	Co-elute PCB 88
PCB-121	0.9554	-	0.96	
13C-PCB-104	0.9187	-	0.92	
13C-PCB-28	1.2962	-	1.30	
13C-PCB-52	-	-	-	

PCB-56	1.0101	-	1.01	Co-elute PCB 60
PCB-60	1.0101	-	1.01	Co-elute PCB 56
PCB-79	1.0367	-	1.04	
PCB-78	0.9901	-	0.99	
PCB-81	1.0597	-	1.06	
13C-PCB-81	1.0686	-	1.07	
PCB-77	0.9762	-	0.98	
13C-PCB-77	1.0829	-	1.08	
PCB-155	0.9762	-	0.98	
PCB-150	0.8926	-	0.89	
PCB-152	0.8683	-	0.87	
PCB-145	0.8545	-	0.85	
PCB-136	0.8716	-	0.87	
PCB-148	0.6358	-	0.64	
PCB-154	0.7692	-	0.77	
13C-PCB-155	1.1126	-	1.11	
13C-PCB-111	1.1405	-	1.14	
13C-PCB-101	-	-	-	
PCB-84	0.7861	-	0.79	Co-elute PCB 92
PCB-92	0.7861	-	0.79	Co-elute PCB 84
PCB-89	0.7565	-	0.76	
PCB-90	0.8661	-	0.87	Co-elute PCB 101
PCB-101	0.8661	-	0.87	Co-elute PCB 90
PCB-113	0.9898	-	0.99	
PCB-99	0.9662	-	0.97	
PCB-119	1.1273	-	1.13	
PCB-83	0.8746	-	0.87	Co-elute PCB 112
PCB-112	0.8746	-	0.87	Co-elute PCB 83
PCB-109	1.0516	-	1.05	
PCB-97	0.9494	-	0.95	
PCB-86	0.7645	*	0.76	
PCB-125	0.9988	-	1.00	Co-elute PCB 87/117
PCB-87	0.9988	-	1.00	Co-elute PCB 125/117
PCB-117	0.9988	-	1.00	Co-elute PCB 125/87
PCB-111	1.2098	-	1.21	Co-elute PCB 115
PCB-115	1.2098	-	1.21	Co-elute PCB 111
PCB-85	0.9496	-	0.95	Co-elute PCB 116
PCB-116	0.9496	-	0.95	Co-elute PCB 85
PCB-120	1.1669	-	1.17	
PCB-110	1.1537	-	1.15	
PCB-82	0.6563	-	0.66	
PCB-124	0.9153	-	0.92	
PCB-108	1.0214	-	1.02	Co-elute PCB 107
PCB-107	1.0214	-	1.02	Co-elute PCB 108
PCB-123	1.0987	-	1.10	
13C-PCB-123	1.0547	-	1.05	
PCB-118	0.9232	*	0.92	Co-elute PCB 106
PCB-106	0.9232	*	0.92	Co-elute PCB 118
13C-PCB-118	1.1005	-	1.10	
PCB-114	0.9477	-	0.95	
13C-PCB-114	1.0509	-	1.05	
PCB-122	1.0181	-	1.02	
PCB-105	0.9937	-	0.99	
13C-PCB-105	1.0649	-	1.06	
PCB-127	0.9206	-	0.92	
PCB-126	1.0037	-	1.00	
13C-PCB-126	1.0049	-	1.00	

PCB-151	0.6743	-	0.67	
PCB-135	0.7152	-	0.72	
PCB-144	0.6747	-	0.67	
PCB-147	0.7623	-	0.76	
PCB-139	0.7570	-	0.76	Co-elute PCB 149
PCB-149	0.7570	-	0.76	Co-elute PCB 139
PCB-140	0.7339	-	0.73	
PCB-143	0.6915	-	0.69	Co-elute PCB 134
PCB-134	0.6915	-	0.69	Co-elute PCB 143
PCB-131	0.7070	-	0.71	Co-elute PCB 133
PCB-133	0.7070	-	0.71	Co-elute PCB 131
PCB-142	0.6225	-	0.62	
PCB-165	0.8506	-	0.85	Co-elute PCB 146
PCB-146	0.8506	-	0.85	Co-elute PCB 165
PCB-161	0.7857	-	0.79	Co-elute PCB 132
PCB-132	0.7857	-	0.79	Co-elute PCB 161
PCB-153	0.8391	-	0.84	
PCB-168	0.9119	-	0.91	
PCB-141	0.7363	-	0.74	
PCB-137	0.6497	-	0.65	
PCB-130	0.6866	-	0.69	
PCB-138	0.9508	-	0.95	Co-elute PCB 163/164
PCB-163	0.9508	-	0.95	Co-elute PCB 138/164
PCB-164	0.9508	-	0.95	Co-elute PCB 138/163
PCB-158	0.9377	-	0.94	Co-elute PCB 160
PCB-160	0.9377	-	0.94	Co-elute PCB 158
PCB-129	0.5874	-	0.59	
PCB-166	0.9014	-	0.90	
PCB-159	0.9639	-	0.96	
PCB-128	0.8126	-	0.81	Co-elute PCB 162
PCB-162	0.8126	-	0.81	Co-elute PCB 128
PCB-167	0.8776	-	0.88	
13C-PCB-167	1.1594	-	1.16	
PCB-156	0.9245	-	0.92	
13C-PCB-156	1.1076	-	1.11	
PCB-157	0.9399	-	0.94	
13C-PCB-157	1.1442	-	1.14	
PCB-169	0.8913	-	0.89	
13C-PCB-169	1.0992	-	1.10	
PCB-188	1.0366	-	1.04	
13C-PCB-188	1.2212	-	1.22	

PCB-184	1.0790	-	1.08	
PCB-179	1.0265	-	1.03	
PCB-176	1.0103	-	1.01	
PCB-186	1.0032	-	1.00	
PCB-178	0.7345	-	0.73	
PCB-175	0.7633	-	0.76	
PCB-187	0.8406	-	0.84	Co-elute PCB 182
PCB-182	0.8406	-	0.84	Co-elute PCB 187
PCB-183	0.8272	-	0.83	
PCB-185	0.7707	-	0.77	
PCB-174	0.7564	-	0.76	
PCB-181	0.7740	-	0.77	
PCB-177	0.6943	-	0.69	
PCB-171	0.7308	-	0.73	
PCB-173	0.6658	-	0.67	
PCB-172	0.6933	-	0.69	
PCB-192	0.9065	-	0.91	
PCB-180	0.9182	-	0.92	
PCB-193	0.9736	-	0.97	
PCB-191	0.9692	-	0.97	
PCB-170	0.6849	-	0.68	
PCB-190	0.9346	-	0.93	
PCB-189	0.9892	-	0.99	
13C-PCB-189	1.1020	-	1.10	
PCB-202	0.8572	-	0.86	
PCB-201	0.8635	-	0.86	
PCB-204	0.8745	-	0.87	
PCB-197	0.8828	-	0.88	
PCB-200	0.8844	-	0.88	
PCB-198	0.6545	-	0.65	
PCB-199	0.5994	-	0.60	
PCB-203	0.6784	-	0.68	Co-elute PCB 196
PCB-196	0.6784	-	0.68	Co-elute PCB 203
13C-PCB-202	1.0891	-	1.09	
13C-PCB-178	0.8898	-	0.89	
13C-PCB-138	-	-	-	
PCB-195	0.7029	-	0.70	
PCB-194	0.7550	-	0.75	
PCB-205	0.9822	-	0.98	
13C-PCB-205	1.2424	-	1.24	
PCB-208	0.9006	-	0.90	
13C-PCB-208	1.3396	-	1.34	
PCB-207	0.9839	-	0.98	
PCB-206	0.9220	-	0.92	
13C-PCB-206	0.9636	-	0.96	
PCB-209	0.9743	-	0.97	
13C-PCB-209	1.3952	-	1.40	
13C-PCB-194	-	-	-	

Analyst: _____ Date: 1/4/17

Run #1 Filename 05JAN17Z S: 2 Acquired: 5-JAN-17 11:19:28 Cal: DAILY209FAL4-1-5-17
Client ID: SS010517Z1 Analyte: FAL ID: CS20981

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	4.59e+07	3.10 y	14:32	-	0.917	
2	IS/RT	13C-PCB-1	100.00	1.00e+08	3.14 y	14:31	-	1.09	
3	Unk	PCB-2	50.00	4.45e+07	3.12 y	16:45	-	0.871	
4	Unk	PCB-3	50.00	4.78e+07	3.16 y	16:59	-	0.917	
5	IS/RT	13C-PCB-3	100.00	1.04e+08	3.19 y	16:58	-	1.14	
6	Unk	PCB-4	50.00	3.33e+07	1.49 y	18:14	-	1.17	
7	Unk	PCB-10	50.00	3.73e+07	1.55 y	18:16	-	0.985	
8	IS/RT	13C-PCB-4	100.00	5.70e+07	1.57 y	18:12	-	0.622	
9	Unk	PCB-9	50.00	4.22e+07	1.49 y	19:55	-	1.11	
10	Unk	PCB-7	50.00	4.27e+07	1.58 y	19:57	-	1.13	
11	Unk	PCB-6	50.00	4.20e+07	1.54 y	20:32	-	1.11	
12	Unk	PCB-8	50.00	4.25e+07	1.52 y	20:55	-	1.12	
13	Unk	PCB-5	50.00	4.11e+07	1.53 y	20:56	-	1.08	
14	Unk	PCB-14	50.00	4.19e+07	1.53 y	21:59	-	1.11	
15	Unk	PCB-11	50.00	4.08e+07	1.50 y	23:07	-	1.08	
16	Unk	PCB-13	50.00	4.12e+07	1.49 y	23:27	-	1.09	
17	Unk	PCB-12	50.00	4.00e+07	1.56 y	23:30	-	1.06	
18	Unk	PCB-15	50.00	4.72e+07	1.51 y	23:46	-	0.999	
19	IS/RT	13C-PCB-15	100.00	9.45e+07	1.59 y	23:45	-	1.03	
20	Unk	PCB-19	50.00	2.84e+07	1.02 y	22:07	-	0.954	
21	Unk	PCB-30	50.00	4.13e+07	1.04 y	22:59	-	1.39	
22	Unk	PCB-18	50.00	2.88e+07	1.03 y	23:40	-	0.965	
23	Unk	PCB-17	50.00	3.09e+07	1.04 y	23:50	-	1.04	
24	Unk	PCB-27	50.00	4.08e+07	1.04 y	24:23	-	1.37	
25	Unk	PCB-24	50.00	4.08e+07	1.04 y	24:23	-	1.37	
26	Unk	PCB-16	50.00	3.33e+07	1.00 y	24:52	-	1.12	
27	Unk	PCB-32	50.00	3.71e+07	1.07 y	24:53	-	1.25	
28	IS/RT	13C-PCB-19	100.00	5.96e+07	1.08 y	22:06	-	0.651	
29	RS	13C-PCB-9	100.00	9.16e+07	1.60 y	19:53	9.16e+05	-	
30	Unk	PCB-34	50.00	3.31e+07	0.99 y	25:38	-	0.861	
31	Unk	PCB-23	50.00	3.81e+07	1.02 y	25:43	-	0.991	
32	Unk	PCB-29	50.00	3.87e+07	1.03 y	25:58	-	1.01	
33	Unk	PCB-26	50.00	3.76e+07	1.02 y	26:09	-	0.979	
34	Unk	PCB-25	50.00	4.56e+07	1.03 y	26:18	-	1.19	
35	Unk	PCB-31	50.00	4.00e+07	1.01 y	26:38	-	1.04	
36	Unk	PCB-28	50.00	4.23e+07	1.02 y	26:45	-	1.10	
37	Unk	PCB-20	150.00	1.20e+08	1.02 y	27:19	-	1.04	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	1.20e+08	1.02 y	27:19	-	1.04	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	1.20e+08	1.02 y	27:19	-	1.04	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	3.97e+07	1.03 y	27:44	-	1.03	
41	Unk	PCB-36	50.00	3.79e+07	1.03 y	28:21	-	0.987	
42	Unk	PCB-39	50.00	3.79e+07	1.02 y	28:47	-	0.987	
43	Unk	PCB-38	50.00	3.85e+07	1.02 y	29:32	-	1.00	
44	Unk	PCB-35	50.00	3.60e+07	1.03 y	30:01	-	0.936	
45	Unk	PCB-37	50.00	4.06e+07	1.02 y	30:26	-	1.06	
46	IS	13C-PCB-37	100.00	7.69e+07	1.08 y	30:25	-	1.18	

47	Unk	PCB-54	100.00	6.82e+07	0.78 y	25:39		-	0.992	
48	Unk	PCB-50	100.00	5.29e+07	0.77 y	26:46		-	0.769	
49	Unk	PCB-53	100.00	5.28e+07	0.78 y	27:23		-	0.768	
50	Unk	PCB-51	100.00	5.39e+07	0.77 y	27:43		-	0.784	
51	Unk	PCB-45	100.00	4.69e+07	0.78 y	28:07		-	0.682	
52	Unk	PCB-46	100.00	4.42e+07	0.78 y	28:35		-	0.642	
53	Unk	PCB-52	200.00	1.39e+08	0.77 y	29:03		-	1.01	Co-elute PCB 69
54	Unk	PCB-69	200.00	1.39e+08	0.77 y	29:03		-	1.01	Co-elute PCB 52
55	Unk	PCB-73	100.00	6.15e+07	0.79 y	29:08		-	0.895	
56	Unk	PCB-43	200.00	1.05e+08	0.78 y	29:18		-	0.761	Co-elute PCB 49
57	Unk	PCB-49	200.00	1.05e+08	0.78 y	29:18		-	0.761	Co-elute PCB 43
58	Unk	PCB-47	100.00	6.53e+07	0.77 y	29:30		-	0.949	
59	Unk	PCB-48	200.00	1.32e+08	0.78 y	29:37		-	0.962	Co-elute PCB 75
60	Unk	PCB-75	200.00	1.32e+08	0.78 y	29:37		-	0.962	Co-elute PCB 48
61	Unk	PCB-65	100.00	6.86e+07	0.77 y	29:52		-	0.998	
62	Unk	PCB-62	100.00	6.39e+07	0.78 y	29:58		-	0.929	
63	Unk	PCB-44	100.00	4.76e+07	0.77 y	30:15		-	0.693	
64	Unk	PCB-42	200.00	1.30e+08	0.77 y	30:28		-	0.942	Co-elute PCB 59
65	Unk	PCB-59	200.00	1.30e+08	0.77 y	30:28		-	0.942	Co-elute PCB 42
66	Unk	PCB-72	400.00	2.81e+08	0.77 y	31:01		-	1.02	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	2.81e+08	0.77 y	31:01		-	1.02	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	2.81e+08	0.77 y	31:01		-	1.02	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	2.81e+08	0.77 y	31:01		-	1.02	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	7.55e+07	0.78 y	31:17		-	1.10	
71	Unk	PCB-40	100.00	4.07e+07	0.77 y	31:28		-	0.591	
72	Unk	PCB-57	100.00	7.14e+07	0.78 y	31:49		-	1.04	
73	Unk	PCB-67	100.00	6.73e+07	0.76 y	32:07		-	0.979	
74	Unk	PCB-58	100.00	7.61e+07	0.78 y	32:13		-	1.11	
75	Unk	PCB-63	100.00	7.07e+07	0.77 y	32:22		-	1.03	
76	Unk	PCB-74	100.00	7.38e+07	0.77 y	32:39		-	1.07	
77	Unk	PCB-61	200.00	1.54e+08	0.78 y	32:50		-	1.12	Co-elute PCB 70
78	Unk	PCB-70	200.00	1.54e+08	0.78 y	32:50		-	1.12	Co-elute PCB 61
79	Unk	PCB-76	200.00	1.47e+08	0.77 y	33:03		-	1.07	Co-elute PCB 66
80	Unk	PCB-66	200.00	1.47e+08	0.77 y	33:03		-	1.07	Co-elute PCB 76
81	Unk	PCB-80	100.00	8.15e+07	0.78 y	33:15		-	1.19	
82	Unk	PCB-55	100.00	7.29e+07	0.77 y	33:33		-	1.06	
83	IS/RT	13C-PCB-54	100.00	6.88e+07	0.81 y	25:38		-	1.05	
84	Unk	PCB-104	100.00	6.25e+07	1.59 y	30:07		-	1.04	
85	Unk	PCB-96	100.00	5.86e+07	1.59 y	31:18		-	0.978	
86	Unk	PCB-103	100.00	5.00e+07	1.58 y	31:49		-	0.833	
87	Unk	PCB-100	100.00	4.94e+07	1.60 y	32:10		-	0.823	
88	Unk	PCB-94	100.00	4.09e+07	1.60 y	32:36		-	0.683	
89	Unk	PCB-98	200.00	1.05e+08	1.58 y	33:03		-	0.872	Co-elute PCB 102
90	Unk	PCB-102	200.00	1.05e+08	1.58 y	33:03		-	0.872	Co-elute PCB 98
91	Unk	PCB-95	100.00	4.25e+07	1.62 y	33:07		-	0.709	
92	Unk	PCB-93	100.00	4.03e+07	1.59 y	33:10		-	0.673	
93	Unk	PCB-88	200.00	9.27e+07	1.59 y	33:28		-	0.773	Co-elute PCB 91
94	Unk	PCB-91	200.00	9.27e+07	1.59 y	33:28		-	0.773	Co-elute PCB 88
95	Unk	PCB-121	100.00	5.73e+07	1.60 y	33:34		-	0.955	
96	IS	13C-PCB-104	100.00	6.00e+07	1.57 y	30:04		-	0.919	
97	C/Up	13C-PCB-28	100.00	8.46e+07	1.06 y	26:43		-	1.30	
98	RS	13C-PCB-52	100.00	6.53e+07	0.78 y	28:60	6.53e+05		-	
99	Unk	PCB-56	200.00	1.33e+08	0.77 y	34:02		-	1.01	Co-elute PCB 60
100	Unk	PCB-60	200.00	1.33e+08	0.77 y	34:02		-	1.01	Co-elute PCB 56

101	Unk	PCB-79	100.00	6.82e+07	0.78 y	35:03	-	1.04	
102	Unk	PCB-78	100.00	6.51e+07	0.79 y	35:43	-	0.990	
103	Unk	PCB-81	100.00	6.92e+07	0.77 y	36:13	-	1.06	
104	IS	13C-PCB-81	100.00	6.53e+07	0.80 y	36:12	-	1.07	
105	Unk	PCB-77	100.00	6.46e+07	0.79 y	36:46	-	0.976	
106	IS/RT	13C-PCB-77	100.00	6.62e+07	0.78 y	36:45	-	1.08	
107	Unk	PCB-155	100.00	6.64e+07	1.28 y	34:17	-	0.976	
108	Unk	PCB-150	100.00	6.07e+07	1.27 y	35:28	-	0.893	
109	Unk	PCB-152	100.00	5.91e+07	1.27 y	35:56	-	0.868	
110	Unk	PCB-145	100.00	5.81e+07	1.27 y	36:21	-	0.854	
111	Unk	PCB-136	100.00	5.93e+07	1.26 y	36:39	-	0.872	
112	Unk	PCB-148	100.00	4.33e+07	1.28 y	36:45	-	0.636	
113	Unk	PCB-154	100.00	5.23e+07	1.25 y	37:13	-	0.769	
114	IS	13C-PCB-155	100.00	6.80e+07	1.26 y	34:16	-	1.11	
115	C/Up	13C-PCB-111	100.00	6.97e+07	1.57 y	36:21	-	1.14	
116	RS	13C-PCB-101	100.00	6.11e+07	1.59 y	34:42	6.11e+05	-	
117	Unk	PCB-84	200.00	9.09e+07	1.55 y	34:21	-	0.786	Co-elute PCB 92
118	Unk	PCB-92	200.00	9.09e+07	1.55 y	34:21	-	0.786	Co-elute PCB 84
119	Unk	PCB-89	100.00	4.38e+07	1.54 y	34:32	-	0.757	
120	Unk	PCB-90	200.00	1.00e+08	1.55 y	34:42	-	0.866	Co-elute PCB 101
121	Unk	PCB-101	200.00	1.00e+08	1.55 y	34:42	-	0.866	Co-elute PCB 90
122	Unk	PCB-113	100.00	5.73e+07	1.54 y	34:56	-	0.990	
123	Unk	PCB-99	100.00	5.59e+07	1.56 y	35:03	-	0.966	
124	Unk	PCB-119	100.00	6.52e+07	1.56 y	35:29	-	1.13	
125	Unk	PCB-83	200.00	1.01e+08	1.54 y	35:37	-	0.875	Co-elute PCB 112
126	Unk	PCB-112	200.00	1.01e+08	1.54 y	35:37	-	0.875	Co-elute PCB 83
127	Unk	PCB-109	100.00	6.08e+07	1.55 y	35:47	-	1.05	
128	Unk	PCB-97	100.00	5.49e+07	1.55 y	35:58	-	0.949	
129	Unk	PCB-86	100.00	4.42e+07	1.56 y	36:07	-	0.765	
130	Unk	PCB-125	300.00	1.73e+08	1.55 y	36:13	-	0.999	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	1.73e+08	1.55 y	36:13	-	0.999	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	1.73e+08	1.55 y	36:13	-	0.999	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	1.40e+08	1.55 y	36:22	-	1.21	Co-elute PCB 115
134	Unk	PCB-115	200.00	1.40e+08	1.55 y	36:22	-	1.21	Co-elute PCB 111
135	Unk	PCB-85	200.00	1.10e+08	1.55 y	36:30	-	0.950	Co-elute PCB 116
136	Unk	PCB-116	200.00	1.10e+08	1.55 y	36:30	-	0.950	Co-elute PCB 85
137	Unk	PCB-120	100.00	6.75e+07	1.54 y	36:44	-	1.17	
138	Unk	PCB-110	100.00	6.67e+07	1.56 y	36:51	-	1.15	
139	Unk	PCB-82	100.00	3.80e+07	1.54 y	37:27	-	0.656	
140	Unk	PCB-124	100.00	5.29e+07	1.49 y	38:06	-	0.915	
141	Unk	PCB-108	200.00	1.18e+08	1.52 y	38:14	-	1.02	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.18e+08	1.52 y	38:14	-	1.02	Co-elute PCB 108
143	Unk	PCB-123	100.00	6.28e+07	1.59 y	38:24	-	1.10	
144	IS	13C-PCB-123	100.00	5.71e+07	1.58 y	38:24	-	1.05	
145	Unk	PCB-118	200.00	1.10e+08	1.48 y	38:37	-	0.923	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.10e+08	1.48 y	38:37	-	0.923	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	5.96e+07	1.59 y	38:34	-	1.10	
148	Unk	PCB-114	100.00	5.40e+07	1.50 y	39:12	-	0.948	
149	IS	13C-PCB-114	100.00	5.69e+07	1.58 y	39:12	-	1.05	
150	Unk	PCB-122	100.00	5.89e+07	1.53 y	39:19	-	1.02	
151	Unk	PCB-105	100.00	5.73e+07	1.53 y	40:01	-	0.994	
152	IS	13C-PCB-105	100.00	5.77e+07	1.60 y	39:60	-	1.06	
153	Unk	PCB-127	100.00	5.33e+07	1.55 y	40:21	-	0.921	
154	Unk	PCB-126	100.00	5.46e+07	1.55 y	42:10	-	1.00	
155	IS	13C-PCB-126	100.00	5.44e+07	1.60 y	42:08	-	1.00	

156	Unk	PCB-151	100.00	4.12e+07	1.29 y	37:51	-	0.674	
157	Unk	PCB-135	100.00	4.37e+07	1.23 y	38:03	-	0.715	
158	Unk	PCB-144	100.00	4.12e+07	1.29 y	38:09	-	0.675	
159	Unk	PCB-147	100.00	4.66e+07	1.26 y	38:18	-	0.762	
160	Unk	PCB-139	200.00	9.25e+07	1.26 y	38:31	-	0.757	Co-elute PCB 149
161	Unk	PCB-149	200.00	9.25e+07	1.26 y	38:31	-	0.757	Co-elute PCB 139
162	Unk	PCB-140	100.00	4.48e+07	1.27 y	38:42	-	0.734	
163	Unk	PCB-143	200.00	8.45e+07	1.27 y	39:07	-	0.691	Co-elute PCB 134
164	Unk	PCB-134	200.00	8.45e+07	1.27 y	39:07	-	0.691	Co-elute PCB 143
165	Unk	PCB-131	200.00	8.64e+07	1.26 y	39:23	-	0.707	Co-elute PCB 133
166	Unk	PCB-133	200.00	8.64e+07	1.26 y	39:23	-	0.707	Co-elute PCB 131
167	Unk	PCB-142	100.00	3.80e+07	1.26 y	39:33	-	0.622	
168	Unk	PCB-165	200.00	1.04e+08	1.25 y	39:45	-	0.851	Co-elute PCB 146
169	Unk	PCB-146	200.00	1.04e+08	1.25 y	39:45	-	0.851	Co-elute PCB 165
170	Unk	PCB-161	200.00	9.60e+07	1.26 y	39:60	-	0.786	Co-elute PCB 132
171	Unk	PCB-132	200.00	9.60e+07	1.26 y	39:60	-	0.786	Co-elute PCB 161
172	Unk	PCB-153	100.00	5.13e+07	1.26 y	40:10	-	0.839	
173	Unk	PCB-168	100.00	5.57e+07	1.26 y	40:21	-	0.912	
174	Unk	PCB-141	100.00	4.50e+07	1.25 y	40:51	-	0.736	
175	Unk	PCB-137	100.00	3.97e+07	1.24 y	41:14	-	0.650	
176	Unk	PCB-130	100.00	4.19e+07	1.28 y	41:19	-	0.687	
177	Unk	PCB-138	300.00	1.74e+08	1.26 y	41:40	-	0.951	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	1.74e+08	1.26 y	41:40	-	0.951	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	1.74e+08	1.26 y	41:40	-	0.951	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	1.15e+08	1.28 y	41:55	-	0.938	Co-elute PCB 160
181	Unk	PCB-160	200.00	1.15e+08	1.28 y	41:55	-	0.938	Co-elute PCB 158
182	Unk	PCB-129	100.00	3.59e+07	1.23 y	42:08	-	0.587	
183	Unk	PCB-166	100.00	5.51e+07	1.25 y	42:34	-	0.901	
184	Unk	PCB-159	100.00	5.89e+07	1.25 y	42:53	-	0.964	
185	Unk	PCB-128	200.00	9.93e+07	1.25 y	43:09	-	0.813	Co-elute PCB 162
186	Unk	PCB-162	200.00	9.93e+07	1.25 y	43:09	-	0.813	Co-elute PCB 128
187	Unk	PCB-167	100.00	5.51e+07	1.24 y	43:32	-	0.878	
188	IS	13C-PCB-167	100.00	6.28e+07	1.26 y	43:30	-	1.16	
189	Unk	PCB-156	100.00	5.55e+07	1.25 y	44:46	-	0.925	
190	IS	13C-PCB-156	100.00	6.00e+07	1.27 y	44:44	-	1.11	
191	Unk	PCB-157	100.00	5.83e+07	1.26 y	45:01	-	0.940	
192	IS	13C-PCB-157	100.00	6.20e+07	1.26 y	44:59	-	1.14	
193	Unk	PCB-169	100.00	5.31e+07	1.25 y	46:53	-	0.891	
194	IS	13C-PCB-169	100.00	5.96e+07	1.25 y	46:53	-	1.10	
195	Unk	PCB-188	100.00	6.86e+07	1.05 y	39:47	-	1.04	
196	IS	13C-PCB-188	100.00	6.62e+07	1.07 y	39:45	-	1.22	

197	Unk	PCB-184	100.00	6.79e+07	1.05 y	40:13	-	1.08	
198	Unk	PCB-179	100.00	6.46e+07	1.05 y	40:57	-	1.03	
199	Unk	PCB-176	100.00	6.36e+07	1.05 y	41:24	-	1.01	
200	Unk	PCB-186	100.00	6.31e+07	1.05 y	41:58	-	1.00	
201	Unk	PCB-178	100.00	4.62e+07	1.05 y	42:26	-	0.734	
202	Unk	PCB-175	100.00	4.80e+07	1.13 y	42:46	-	0.763	
203	Unk	PCB-187	200.00	1.06e+08	1.01 y	42:56	-	0.841	Co-elute PCB 182
204	Unk	PCB-182	200.00	1.06e+08	1.01 y	42:56	-	0.841	Co-elute PCB 187
205	Unk	PCB-183	100.00	5.21e+07	1.06 y	43:14	-	0.827	
206	Unk	PCB-185	100.00	4.85e+07	1.06 y	43:52	-	0.771	
207	Unk	PCB-174	100.00	4.76e+07	1.04 y	44:12	-	0.756	
208	Unk	PCB-181	100.00	4.87e+07	1.05 y	44:18	-	0.774	
209	Unk	PCB-177	100.00	4.37e+07	1.06 y	44:28	-	0.694	
210	Unk	PCB-171	100.00	4.60e+07	1.06 y	44:44	-	0.731	
211	Unk	PCB-173	100.00	4.19e+07	1.06 y	45:09	-	0.666	
212	Unk	PCB-172	100.00	4.36e+07	1.07 y	45:32	-	0.693	
213	Unk	PCB-192	100.00	5.71e+07	1.04 y	45:44	-	0.907	
214	Unk	PCB-180	100.00	5.78e+07	1.06 y	45:54	-	0.918	
215	Unk	PCB-193	100.00	6.13e+07	1.05 y	46:03	-	0.974	
216	Unk	PCB-191	100.00	6.10e+07	1.05 y	46:17	-	0.969	
217	Unk	PCB-170	100.00	4.31e+07	1.03 y	47:11	-	0.685	
218	Unk	PCB-190	100.00	5.88e+07	1.04 y	47:21	-	0.935	
219	Unk	PCB-189	100.00	5.91e+07	1.05 y	48:33	-	0.989	
220	IS	13C-PCB-189	100.00	5.97e+07	1.05 y	48:33	-	1.10	
221	Unk	PCB-202	150.00	7.59e+07	0.90 y	44:54	-	0.857	
222	Unk	PCB-201	150.00	7.64e+07	0.90 y	45:22	-	0.863	
223	Unk	PCB-204	150.00	7.74e+07	0.90 y	45:31	-	0.875	
224	Unk	PCB-197	150.00	7.81e+07	0.90 y	45:45	-	0.883	
225	Unk	PCB-200	150.00	7.83e+07	0.89 y	46:31	-	0.884	
226	Unk	PCB-198	150.00	5.79e+07	0.88 y	47:42	-	0.655	
227	Unk	PCB-199	150.00	5.30e+07	0.91 y	47:47	-	0.599	
228	Unk	PCB-203	300.00	1.20e+08	0.90 y	48:04	-	0.678	Co-elute PCB 196
229	Unk	PCB-196	300.00	1.20e+08	0.90 y	48:04	-	0.678	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	5.90e+07	0.91 y	44:54	-	1.09	
231	C/Up	13C-PCB-178	100.00	4.82e+07	1.09 y	42:25	-	0.890	
232	RS	13C-PCB-138	100.00	5.42e+07	1.24 y	41:38	5.42e+05	-	
233	Unk	PCB-195	150.00	5.25e+07	0.88 y	49:09	-	0.703	
234	Unk	PCB-194	150.00	5.63e+07	0.90 y	49:59	-	0.755	
235	Unk	PCB-205	150.00	7.33e+07	0.90 y	50:14	-	0.982	
236	IS	13C-PCB-205	100.00	4.98e+07	0.91 y	50:14	-	1.24	
237	Unk	PCB-208	150.00	7.25e+07	1.34 y	49:17	-	0.901	
238	IS	13C-PCB-208	100.00	5.36e+07	0.80 y	49:15	-	1.34	
239	Unk	PCB-207	150.00	6.81e+07	1.33 y	49:35	-	0.984	
240	Unk	PCB-206	150.00	5.34e+07	1.33 y	51:29	-	0.922	
241	IS	13C-PCB-206	100.00	3.86e+07	0.80 y	51:29	-	0.964	
242	Unk	PCB-209	150.00	8.17e+07	1.18 y	52:43	-	0.974	
243	IS	13C-PCB-209	100.00	5.59e+07	1.20 y	52:42	-	1.40	
244	RS	13C-PCB-194	100.00	4.00e+07	0.92 y	49:59	4.00e+05	-	

Analyst: _____ Date: 1/6/17

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1/5/17

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 05JAN17Z Sam:1 Analysis Date: 5-JAN-17 10:21:09

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.04	2.66-3.60	y	51.8	37.5 - 62.5
PCB-3	M/M+2	3.09	2.66-3.60	y	52.8	37.5 - 62.5
PCB-4	M/M+2	1.50	1.33-1.79	y	45.7	37.5 - 62.5
PCB-15	M/M+2	1.49	1.33-1.79	y	52.2	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	54.2	37.5 - 62.5
PCB-37	M/M+2	1.00	0.88-1.20	y	48.7	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	52.2	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	54.2	37.5 - 62.5
PCB-81	M/M+2	0.77	0.65-0.89	y	51.5	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	50.3	37.5 - 62.5
PCB-105	M+2/M+4	1.53	1.32-1.78	y	51.1	37.5 - 62.5
PCB-114	M+2/M+4	1.54	1.32-1.78	y	54.8	37.5 - 62.5
PCB-118	M+2/M+4	1.53	1.32-1.78	y	57.5	37.5 - 62.5
PCB-123	M+2/M+4	1.51	1.32-1.78	y	46.9	37.5 - 62.5
PCB-126	M+2/M+4	1.51	1.32-1.78	y	51.2	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	53.3	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	52.1	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	51.6	37.5 - 62.5
PCB-167	M+2/M+4	1.29	1.05-1.43	y	54.0	37.5 - 62.5
PCB-169	M+2/M+4	1.30	1.05-1.43	y	53.6	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	48.6	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	53.5	37.5 - 62.5
PCB-202	M+2/M+4	0.90	0.76-1.02	y	57.0	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	53.6	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	49.7	37.5 - 62.5
PCB-208	M+4/M+6	1.33	1.13-1.53	y	50.7	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	56.7	37.5 - 62.5

Analyst: _____ Date: 1/6/17

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1/5/17

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 05JAN17Z Sam:1 Analysis Date: 5-JAN-17 10:21:09

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.12	2.66-3.60	y	114	50.0 - 145
13C-PCB-3	M/M+2	3.16	2.66-3.60	y	108	50.0 - 145
13C-PCB-4	M/M+2	1.57	1.33-1.79	y	107	50.0 - 145
13C-PCB-15	M/M+2	1.58	1.33-1.79	y	98.9	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	1.08	0.88-1.20	y	96.4	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	108	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	93.7	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	92.9	50.0 - 145
13C-PCB-104	M+2/M+4	1.57	1.32-1.78	y	116	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	102	50.0 - 145
13C-PCB-114	M+2/M+4	1.60	1.32-1.78	y	103	50.0 - 145
13C-PCB-118	M+2/M+4	1.62	1.32-1.78	y	104	50.0 - 145
13C-PCB-123	M+2/M+4	1.58	1.32-1.78	y	101	50.0 - 145
13C-PCB-126	M+2/M+4	1.58	1.32-1.78	y	91.4	50.0 - 145
13C-PCB-155	M+2/M+4	1.25	1.05-1.43	y	108	50.0 - 145
13C-PCB-156	M+2/M+4	1.27	1.05-1.43	y	98.8	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	97.3	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	1.26	1.05-1.43	y	88.2	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	119	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	93.5	50.0 - 145
13C-PCB-202	M+2/M+4	0.93	0.76-1.02	y	109	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	104	50.0 - 145
13C-PCB-206	M+2/M+4	0.77	0.65-0.89	y	114	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	120	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	103	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	97.0	65.0 - 135
13C-PCB-111	M+2/M+4	1.57	1.32-1.78	y	107	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	107	75.0 - 125

Analyst: _____ Date: 1/6/17

FAL ID: ST010517Z1 Filename: 05JAN17Z Sam:1 Acquired: 5-JAN-17 10:21:09 ICal: DAILY209FAL4-1-5-17
Client ID: CS381 ConCal: ST010517Z1 EndCal: ST010517Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.18e+07	3.04 y	14:32	0.92	51.8		2.50	-	-	*	
13C-PCB-1	6.69e+07	3.12 y	14:31	1.09	114		2.50				114
PCB-3	3.18e+07	3.09 y	16:59	0.92	52.8		2.50	-	-	*	
13C-PCB-3	6.58e+07	3.16 y	16:58	1.14	108		2.50				108
PCB-4	1.92e+07	1.50 y	18:14	1.17	45.7		2.50	-	-	*	
13C-PCB-4	3.59e+07	1.57 y	18:12	0.62	107		2.50				107
PCB-15	2.86e+07	1.49 y	23:47	1.00	52.2		2.50	-	-	*	
13C-PCB-15	5.48e+07	1.58 y	23:46	1.03	98.9		2.50				98.9
PCB-19	1.93e+07	1.04 y	22:08	0.95	54.2		2.50	-	-	*	
13C-PCB-19	3.74e+07	1.06 y	22:06	0.65	107		2.50				107
13C-PCB-9	5.38e+07	1.59 y	19:53	-	58.7		2.50				
PCB-37	2.15e+07	1.00 y	30:27	1.06	48.7		2.50	-	-	*	
13C-PCB-37	4.18e+07	1.08 y	30:26	1.18	96.4		2.50				96.4
PCB-54	2.18e+07	0.79 y	25:40	0.99	52.2		2.50	-	-	*	
13C-PCB-54	4.20e+07	0.81 y	25:39	1.05	108		2.50				108
PCB-104	2.05e+07	1.59 y	30:07	1.04	50.3		2.50	-	-	*	
13C-PCB-104	3.91e+07	1.57 y	30:06	0.92	116		2.50				116
13C-PCB-28	4.63e+07	1.04 y	26:45	1.30	97.0		2.50				97.0
13C-PCB-52	3.68e+07	0.80 y	29:00	-	56.4		2.50				
PCB-81	1.85e+07	0.77 y	36:15	1.06	51.5		2.50	-	-	*	
13C-PCB-81	3.39e+07	0.79 y	36:13	1.07	92.9		2.50				92.9
PCB-77	1.84e+07	0.79 y	36:48	0.98	54.2		2.50	-	-	*	
13C-PCB-77	3.47e+07	0.79 y	36:46	1.08	93.7		2.50				93.7
PCB-155	2.14e+07	1.27 y	34:18	0.98	53.3		2.50	-	-	*	
13C-PCB-155	4.12e+07	1.25 y	34:17	1.11	108		2.50				108
13C-PCB-111	4.17e+07	1.57 y	36:22	1.14	107		2.50				107
13C-PCB-101	3.42e+07	1.57 y	34:44	-	55.9		2.50				
PCB-123	1.61e+07	1.51 y	38:26	1.10	46.9		2.50	-	-	*	
13C-PCB-123	3.12e+07	1.58 y	38:24	1.05	101		2.50				101
PCB-118	1.77e+07	1.53 y	38:37	0.92	57.5		2.50	-	-	*	
13C-PCB-118	3.33e+07	1.62 y	38:36	1.10	104		2.50				104
PCB-114	1.64e+07	1.54 y	39:14	0.95	54.8		2.50	-	-	*	
13C-PCB-114	3.16e+07	1.60 y	39:12	1.05	103		2.50				103
PCB-105	1.61e+07	1.53 y	40:03	0.99	51.1		2.50	-	-	*	
13C-PCB-105	3.17e+07	1.59 y	40:01	1.06	102		2.50				102
PCB-126	1.38e+07	1.51 y	42:10	1.00	51.2		2.50	-	-	*	
13C-PCB-126	2.68e+07	1.58 y	42:10	1.00	91.4		2.50				91.4
PCB-167	1.61e+07	1.29 y	43:32	0.88	54.0		2.50	-	-	*	
13C-PCB-167	3.39e+07	1.24 y	43:32	1.16	100		2.50				100
PCB-156	1.54e+07	1.25 y	44:46	0.92	52.1		2.50	-	-	*	
13C-PCB-156	3.20e+07	1.27 y	44:44	1.11	98.8		2.50				98.8
PCB-157	1.58e+07	1.26 y	45:01	0.94	51.6		2.50	-	-	*	
13C-PCB-157	3.25e+07	1.27 y	45:01	1.14	97.3		2.50				97.3
PCB-169	1.35e+07	1.30 y	46:55	0.89	53.6		2.50	-	-	*	
13C-PCB-169	2.83e+07	1.26 y	46:53	1.10	88.2		2.50				88.2
PCB-188	2.14e+07	1.05 y	39:48	1.04	48.6		2.50	-	-	*	
13C-PCB-188	4.24e+07	1.07 y	39:47	1.22	119		2.50				119
PCB-189	1.59e+07	1.05 y	48:35	0.99	53.5		2.50	-	-	*	
13C-PCB-189	3.01e+07	1.07 y	48:33	1.10	93.5		2.50				93.5
PCB-202	1.70e+07	0.90 y	44:56	0.86	57.0		2.50	-	-	*	
13C-PCB-202	3.48e+07	0.93 y	44:54	1.09	109		2.50				109
13C-PCB-178	2.78e+07	1.06 y	42:26	0.89	107		2.50				107
13C-PCB-138	2.92e+07	1.25 y	41:38	-	53.9		2.50				

FAL ID: ST010517Z1 Filename: 05JAN17Z Sam:1 Acquired: 5-JAN-17 10:21:09 ICal: DAILY209FAL4-1-5-17
Client ID: CS381 ConCal: ST010517Z1 EndCal: ST010517Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	1.34e+07	0.91	y	50:16	0.98	53.6	2.50	-	-	*	
13C-PCB-205	2.54e+07	0.91	y	50:14	1.24	104	2.50				104
PCB-208	1.45e+07	1.33	y	49:18	0.90	50.7	2.50	-	-	*	
13C-PCB-208	3.17e+07	0.80	y	49:17	1.34	120	2.50				120
PCB-206	9.90e+06	1.35	y	51:30	0.92	49.7	2.50	-	-	*	
13C-PCB-206	2.16e+07	0.77	y	51:29	0.96	114	2.50				114
PCB-209	1.57e+07	1.18	y	52:45	0.97	56.7	2.50	-	-	*	
13C-PCB-209	2.84e+07	1.21	y	52:43	1.40	103	2.50				103
13C-PCB-194	1.97e+07	0.91	y	49:59	-	49.2	2.50				

Analyst: _____ Date: 1/6/17

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1/5/17

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 05JAN17Z Sam:16 Analysis Date: 6-JAN-17 00:56:06

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.02	2.66-3.60	y	52.0	37.5 - 62.5
PCB-3	M/M+2	3.06	2.66-3.60	y	52.2	37.5 - 62.5
PCB-4	M/M+2	1.50	1.33-1.79	y	45.9	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	52.3	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	55.8	37.5 - 62.5
PCB-37	M/M+2	1.04	0.88-1.20	y	51.0	37.5 - 62.5
PCB-54	M/M+2	0.77	0.65-0.89	y	52.0	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	52.8	37.5 - 62.5
PCB-81	M/M+2	0.80	0.65-0.89	y	51.3	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	51.1	37.5 - 62.5
PCB-105	M+2/M+4	1.54	1.32-1.78	y	51.0	37.5 - 62.5
PCB-114	M+2/M+4	1.59	1.32-1.78	y	54.4	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	56.7	37.5 - 62.5
PCB-123	M+2/M+4	1.53	1.32-1.78	y	47.9	37.5 - 62.5
PCB-126	M+2/M+4	1.52	1.32-1.78	y	49.5	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	54.2	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	53.3	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	50.4	37.5 - 62.5
PCB-167	M+2/M+4	1.27	1.05-1.43	y	55.2	37.5 - 62.5
PCB-169	M+2/M+4	1.31	1.05-1.43	y	55.7	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	49.7	37.5 - 62.5
PCB-189	M+2/M+4	1.03	0.89-1.21	y	54.3	37.5 - 62.5
PCB-202	M+2/M+4	0.95	0.76-1.02	y	55.6	37.5 - 62.5
PCB-205	M+2/M+4	0.92	0.76-1.02	y	50.6	37.5 - 62.5
PCB-206	M+4/M+6	1.34	1.13-1.53	y	49.6	37.5 - 62.5
PCB-208	M+4/M+6	1.29	1.13-1.53	y	52.0	37.5 - 62.5
PCB-209	M+4/M+6	1.17	0.99-1.33	y	56.3	37.5 - 62.5

Analyst: _____ Date: 1/6/17

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1/5/17

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 05JAN17Z Sam:16 Analysis Date: 6-JAN-17 00:56:06

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.04	2.66-3.60	y	109	50.0 - 145
13C-PCB-3	M/M+2	3.17	2.66-3.60	y	104	50.0 - 145
13C-PCB-4	M/M+2	1.55	1.33-1.79	y	106	50.0 - 145
13C-PCB-15	M/M+2	1.62	1.33-1.79	y	98.8	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	100	50.0 - 145
13C-PCB-37	M/M+2	1.07	0.88-1.20	y	98.7	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	105	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	95.0	50.0 - 145
13C-PCB-81	M/M+2	0.77	0.65-0.89	y	93.2	50.0 - 145
13C-PCB-104	M+2/M+4	1.56	1.32-1.78	y	110	50.0 - 145
13C-PCB-105	M+2/M+4	1.56	1.32-1.78	y	102	50.0 - 145
13C-PCB-114	M+2/M+4	1.56	1.32-1.78	y	105	50.0 - 145
13C-PCB-118	M+2/M+4	1.63	1.32-1.78	y	105	50.0 - 145
13C-PCB-123	M+2/M+4	1.60	1.32-1.78	y	99.8	50.0 - 145
13C-PCB-126	M+2/M+4	1.61	1.32-1.78	y	99.7	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	102	50.0 - 145
13C-PCB-156	M+2/M+4	1.27	1.05-1.43	y	102	50.0 - 145
13C-PCB-157	M+2/M+4	1.28	1.05-1.43	y	103	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	103	50.0 - 145
13C-PCB-169	M+2/M+4	1.25	1.05-1.43	y	92.3	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	111	50.0 - 145
13C-PCB-189	M+2/M+4	1.11	0.89-1.21	y	96.5	50.0 - 145
13C-PCB-202	M+2/M+4	0.89	0.76-1.02	y	101	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	103	50.0 - 145
13C-PCB-206	M+2/M+4	0.78	0.65-0.89	y	114	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	113	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	102	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	95.1	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	1.10	0.89-1.21	y	99.7	75.0 - 125

Analyst: _____ Date: 1/6/17

FAL ID: ST010517Z2 Filename: 05JAN17Z Sam:16 Acquired: 6-JAN-17 00:56:06 ICal: DAILY209FAL4-1-5-17
Client ID: CS382 ConCal: ST010517Z1 EndCal: ST010517Z2
Results: GC Column: DB1 Amount: 1.000

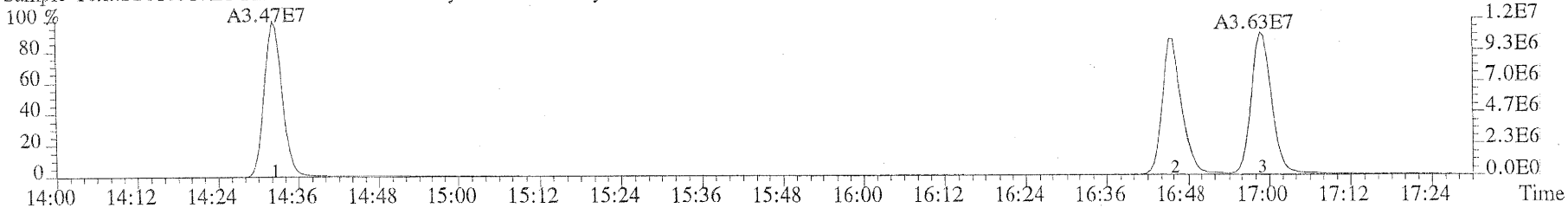
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	7.55e+06	3.02 y	14:33	0.92	52.0		2.50	-	-	*	
13C-PCB-1	1.58e+07	3.04 y	14:32	1.09	109		2.50				109
PCB-3	7.54e+06	3.06 y	17:01	0.92	52.2		2.50	-	-	*	
13C-PCB-3	1.58e+07	3.17 y	16:60	1.14	104		2.50				104
PCB-4	4.73e+06	1.50 y	18:15	1.17	45.9		2.50	-	-	*	
13C-PCB-4	8.81e+06	1.55 y	18:14	0.62	106		2.50				106
PCB-15	7.09e+06	1.57 y	23:49	1.00	52.3		2.50	-	-	*	
13C-PCB-15	1.36e+07	1.62 y	23:48	1.03	98.8		2.50				98.8
PCB-19	4.63e+06	1.04 y	22:09	0.95	55.8		2.50	-	-	*	
13C-PCB-19	8.70e+06	1.09 y	22:07	0.65	100		2.50				100
13C-PCB-9	1.33e+07	1.59 y	19:55	-	14.5		2.50				
PCB-37	6.08e+06	1.04 y	30:28	1.06	51.0		2.50	-	-	*	
13C-PCB-37	1.13e+07	1.07 y	30:27	1.18	98.7		2.50				98.7
PCB-54	5.53e+06	0.77 y	25:41	0.99	52.0		2.50	-	-	*	
13C-PCB-54	1.07e+07	0.80 y	25:40	1.05	105		2.50				105
PCB-104	5.22e+06	1.59 y	30:08	1.04	51.1		2.50	-	-	*	
13C-PCB-104	9.82e+06	1.56 y	30:07	0.92	110		2.50				110
13C-PCB-28	1.20e+07	1.04 y	26:46	1.30	95.1		2.50				95.1
13C-PCB-52	9.71e+06	0.79 y	29:01	-	14.9		2.50				
PCB-81	5.09e+06	0.80 y	36:16	1.06	51.3		2.50	-	-	*	
13C-PCB-81	9.37e+06	0.77 y	36:13	1.07	93.2		2.50				93.2
PCB-77	4.99e+06	0.79 y	36:49	0.98	52.8		2.50	-	-	*	
13C-PCB-77	9.68e+06	0.79 y	36:47	1.08	95.0		2.50				95.0
PCB-155	5.65e+06	1.26 y	34:18	0.98	54.2		2.50	-	-	*	
13C-PCB-155	1.07e+07	1.28 y	34:17	1.11	102		2.50				102
13C-PCB-111	1.16e+07	1.56 y	36:23	1.14	109		2.50				109
13C-PCB-101	9.41e+06	1.55 y	34:43	-	15.4		2.50				
PCB-123	4.45e+06	1.53 y	38:27	1.10	47.9		2.50	-	-	*	
13C-PCB-123	8.45e+06	1.60 y	38:26	1.05	99.8		2.50				99.8
PCB-118	4.84e+06	1.56 y	38:37	0.92	56.7		2.50	-	-	*	
13C-PCB-118	9.24e+06	1.63 y	38:36	1.10	105		2.50				105
PCB-114	4.56e+06	1.59 y	39:15	0.95	54.4		2.50	-	-	*	
13C-PCB-114	8.85e+06	1.56 y	39:14	1.05	105		2.50				105
PCB-105	4.43e+06	1.54 y	40:03	0.99	51.0		2.50	-	-	*	
13C-PCB-105	8.74e+06	1.56 y	40:01	1.06	102		2.50				102
PCB-126	3.99e+06	1.52 y	42:11	1.00	49.5		2.50	-	-	*	
13C-PCB-126	8.04e+06	1.61 y	42:10	1.00	99.7		2.50				99.7
PCB-167	4.67e+06	1.27 y	43:34	0.88	55.2		2.50	-	-	*	
13C-PCB-167	9.63e+06	1.26 y	43:32	1.16	103		2.50				103
PCB-156	4.45e+06	1.26 y	44:48	0.92	53.3		2.50	-	-	*	
13C-PCB-156	9.04e+06	1.27 y	44:46	1.11	102		2.50				102
PCB-157	4.47e+06	1.27 y	45:02	0.94	50.4		2.50	-	-	*	
13C-PCB-157	9.44e+06	1.28 y	45:01	1.14	103		2.50				103
PCB-169	4.04e+06	1.31 y	46:54	0.89	55.7		2.50	-	-	*	
13C-PCB-169	8.14e+06	1.25 y	46:53	1.10	92.3		2.50				92.3
PCB-188	5.62e+06	1.05 y	39:48	1.04	49.7		2.50	-	-	*	
13C-PCB-188	1.09e+07	1.09 y	39:48	1.22	111		2.50				111
PCB-189	4.58e+06	1.03 y	48:35	0.99	54.3		2.50	-	-	*	
13C-PCB-189	8.53e+06	1.11 y	48:35	1.10	96.5		2.50				96.5
PCB-202	4.21e+06	0.95 y	44:56	0.86	55.6		2.50	-	-	*	
13C-PCB-202	8.83e+06	0.89 y	44:56	1.09	101		2.50				101
13C-PCB-178	7.11e+06	1.10 y	42:26	0.89	99.7		2.50				99.7
13C-PCB-138	8.02e+06	1.25 y	41:40	-	14.8		2.50				

FAL ID: ST010517Z2 Filename: 05JAN17Z Sam:16 Acquired: 6-JAN-17 00:56:06 ICal: DAILY209FAL4-1-5-17 2 of 2
Client ID: CS382 ConCal: ST010517Z1 EndCal: ST010517Z2
Results: GC Column: DB1 Amount: 1.000

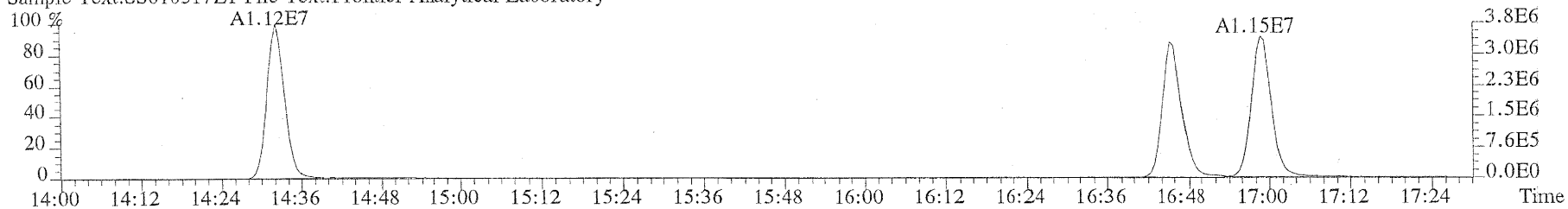
PCB-205	3.32e+06	0.92 y	50:17	0.98	50.6	2.50	-	-	*	
13C-PCB-205	6.68e+06	0.91 y	50:17	1.24	103	2.50				103
PCB-208	3.69e+06	1.29 y	49:18	0.90	52.0	2.50	-	-	*	
13C-PCB-208	7.88e+06	0.80 y	49:18	1.34	113	2.50				113
PCB-206	2.62e+06	1.34 y	51:33	0.92	49.6	2.50	-	-	*	
13C-PCB-206	5.72e+06	0.78 y	51:31	0.96	114	2.50				114
PCB-209	4.04e+06	1.17 y	52:48	0.97	56.3	2.50	-	-	*	
13C-PCB-209	7.37e+06	1.21 y	52:47	1.40	102	2.50				102
13C-PCB-194	5.20e+06	0.92 y	50:00	-	13.0	2.50				

Analyst: _____ Date: 1/6/17

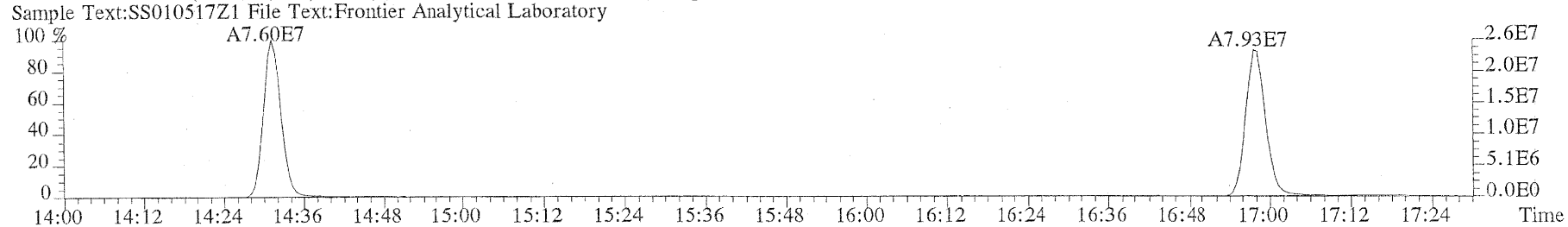
File:05JAN17Z #1-783 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



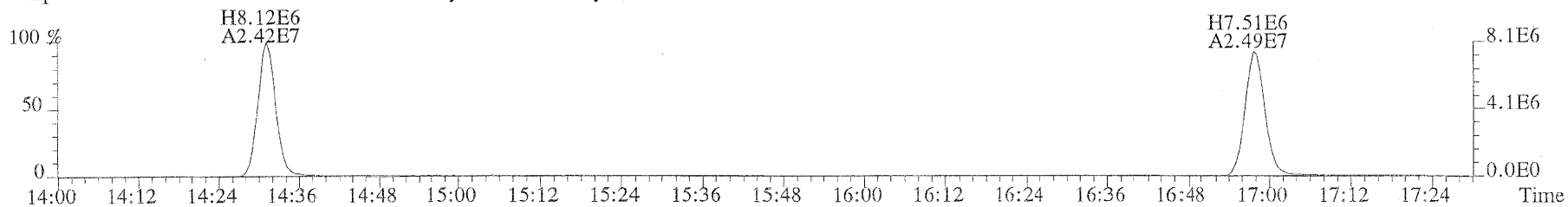
File:05JAN17Z #1-783 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



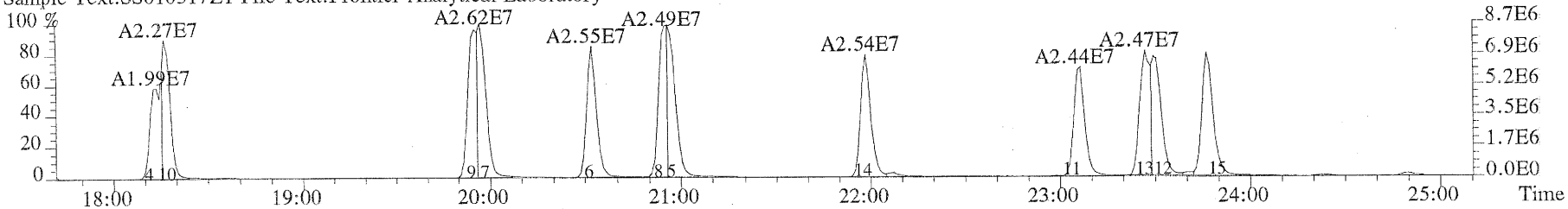
File:05JAN17Z #1-783 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



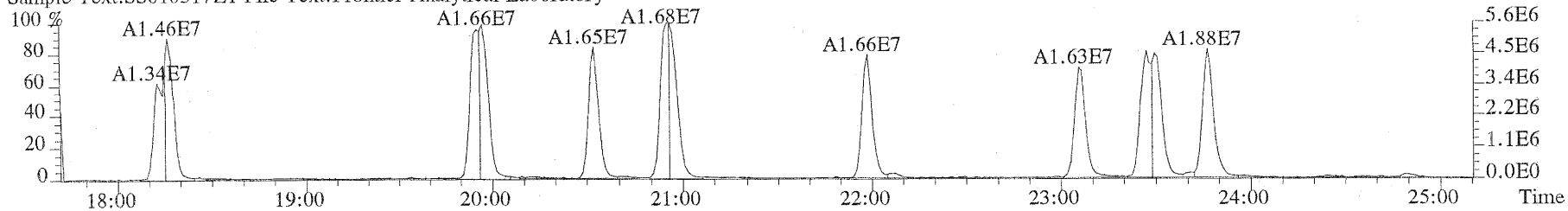
File:05JAN17Z #1-783 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



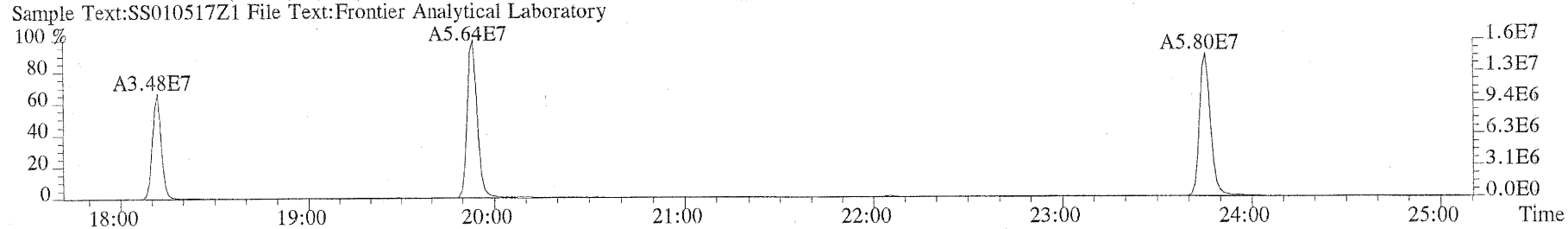
File:05JAN17Z #1-509 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



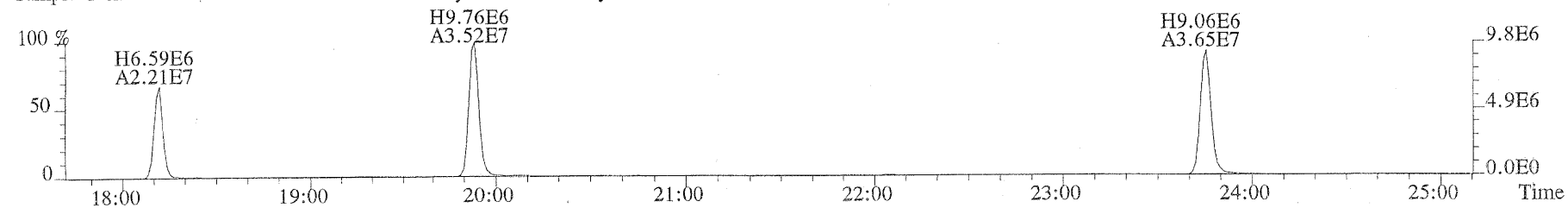
File:05JAN17Z #1-509 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



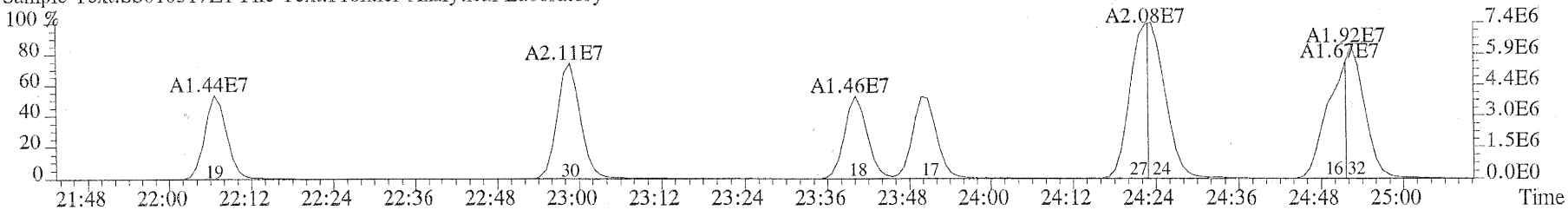
File:05JAN17Z #1-509 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



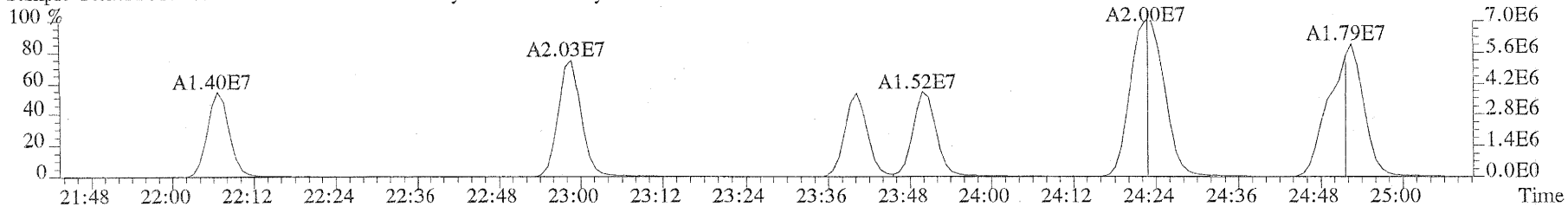
File:05JAN17Z #1-509 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



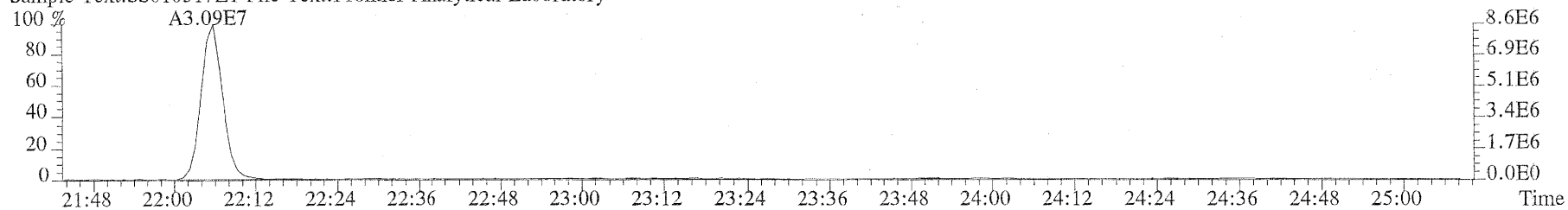
File:05JAN17Z #1-509 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



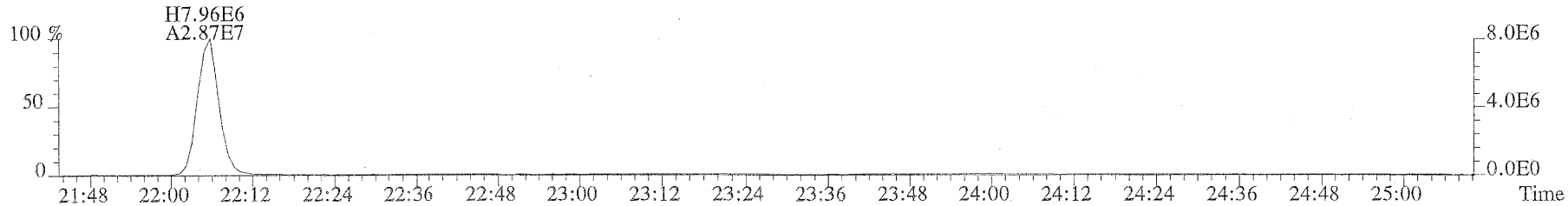
File:05JAN17Z #1-509 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



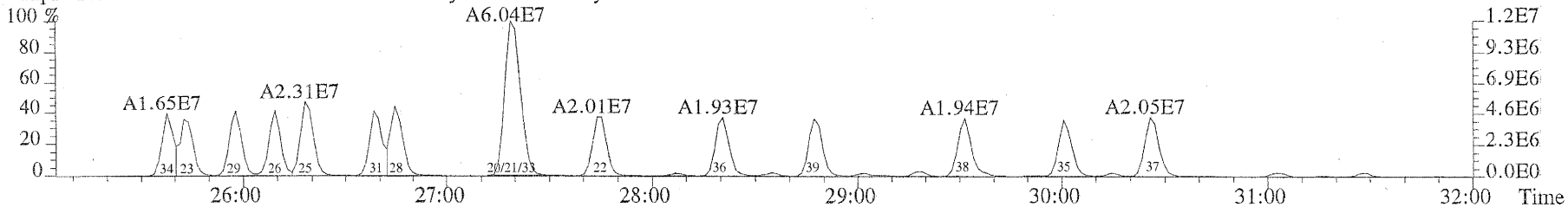
File:05JAN17Z #1-509 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



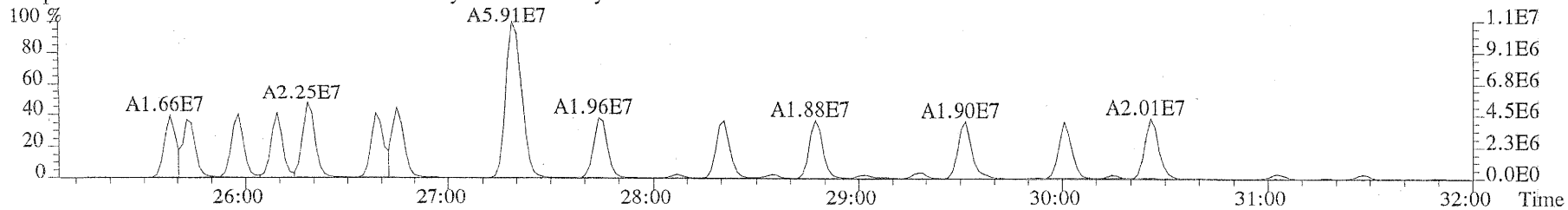
File:05JAN17Z #1-509 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



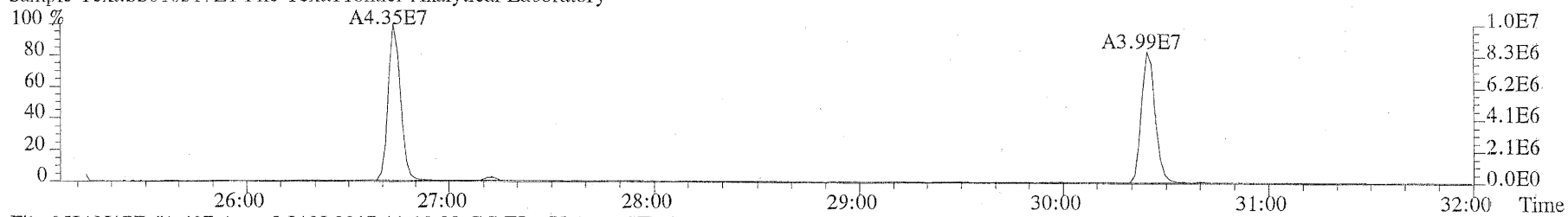
File:05JAN17Z #1-407 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



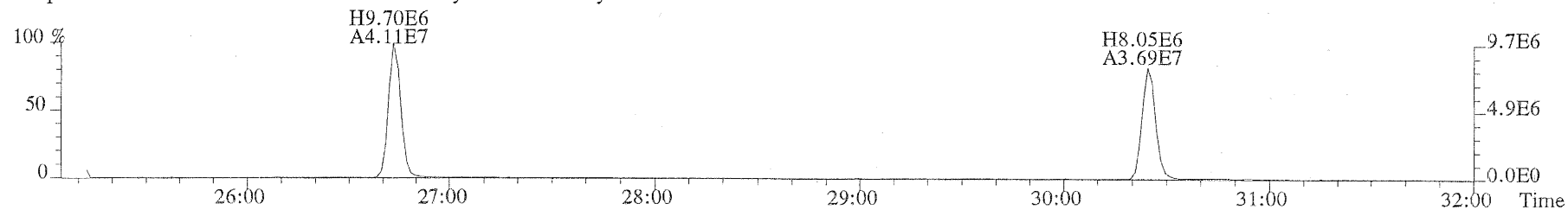
File:05JAN17Z #1-407 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



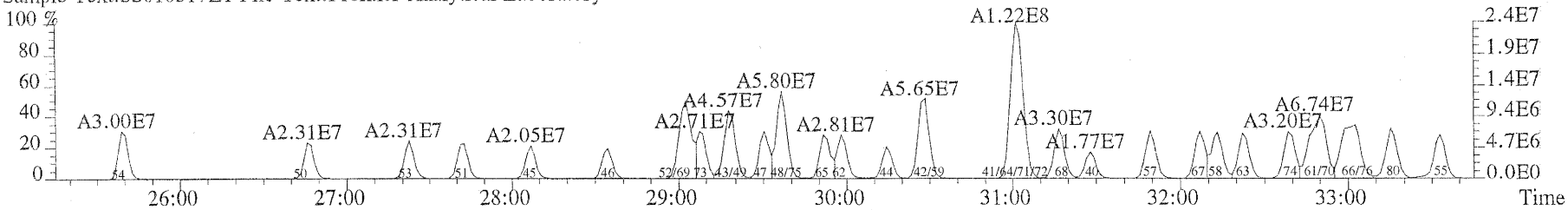
File:05JAN17Z #1-407 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



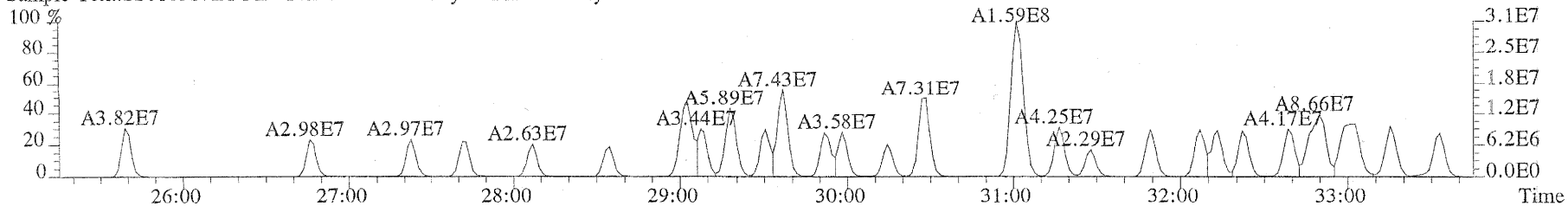
File:05JAN17Z #1-407 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



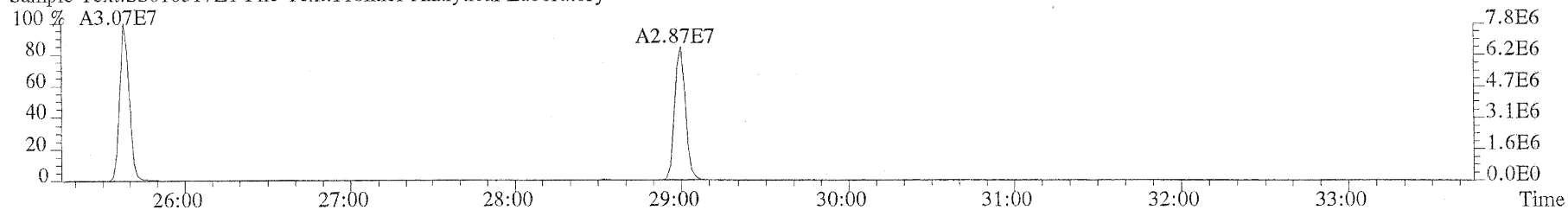
File:05JAN17Z #1-407 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



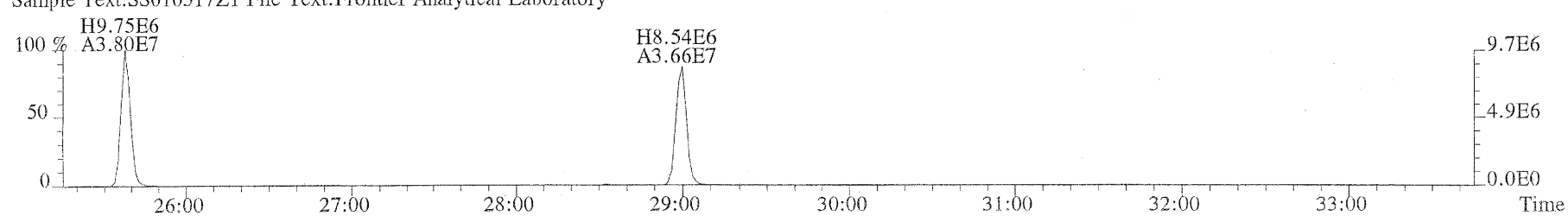
File:05JAN17Z #1-407 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



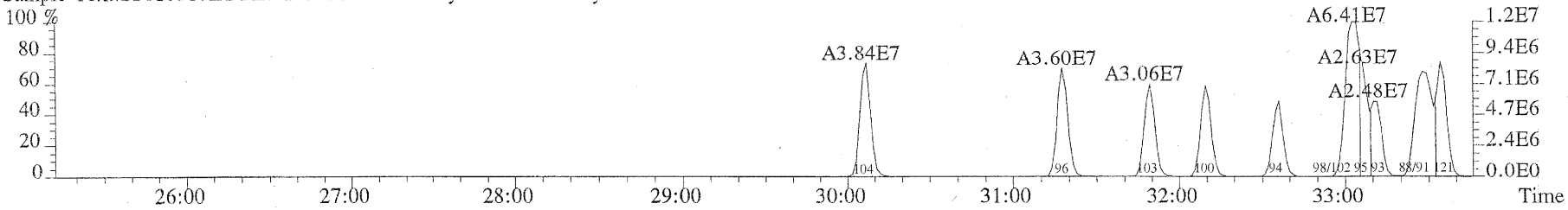
File:05JAN17Z #1-407 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



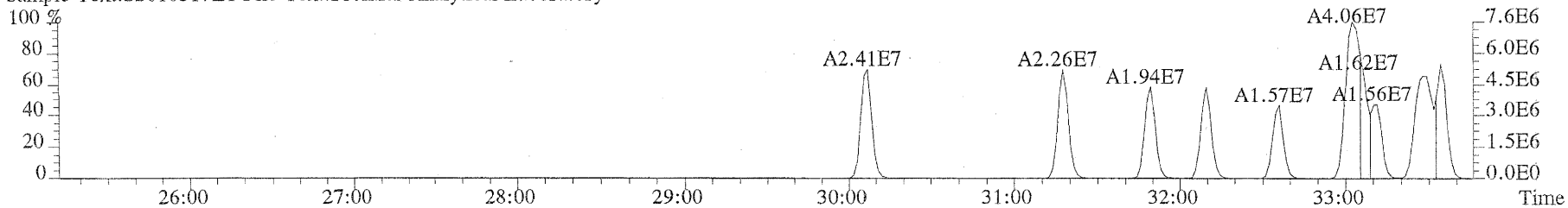
File:05JAN17Z #1-407 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



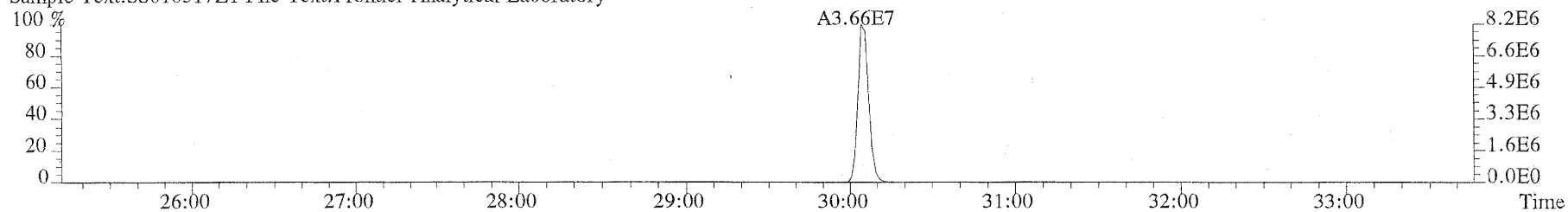
File:05JAN17Z #1-407 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



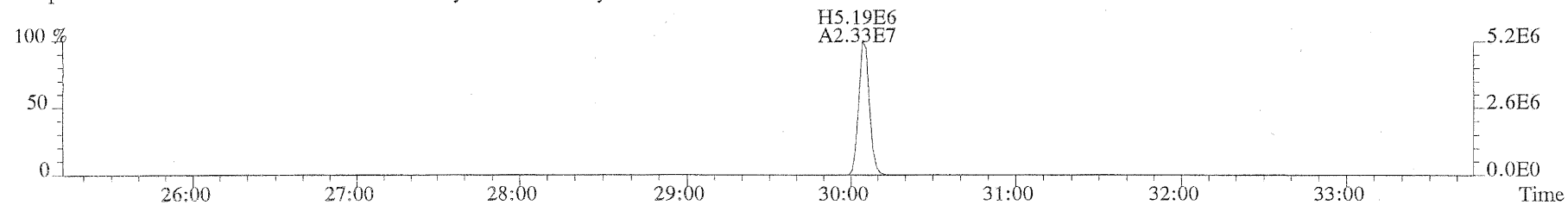
File:05JAN17Z #1-407 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



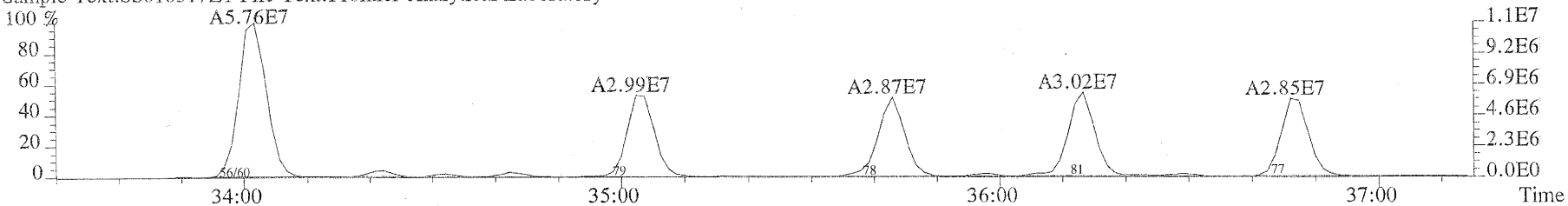
File:05JAN17Z #1-407 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



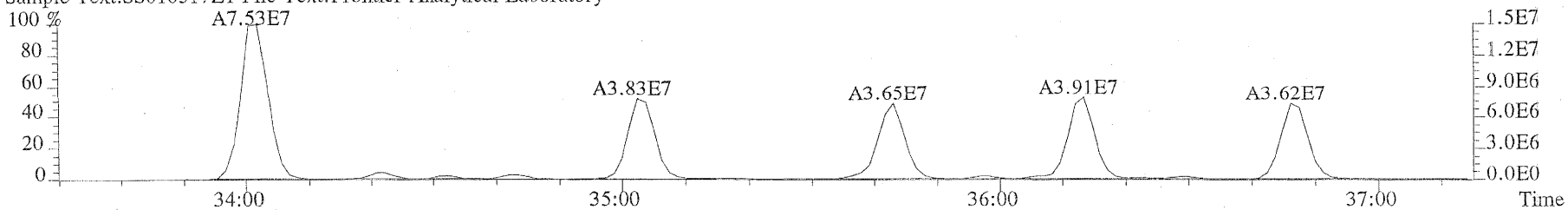
File:05JAN17Z #1-407 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



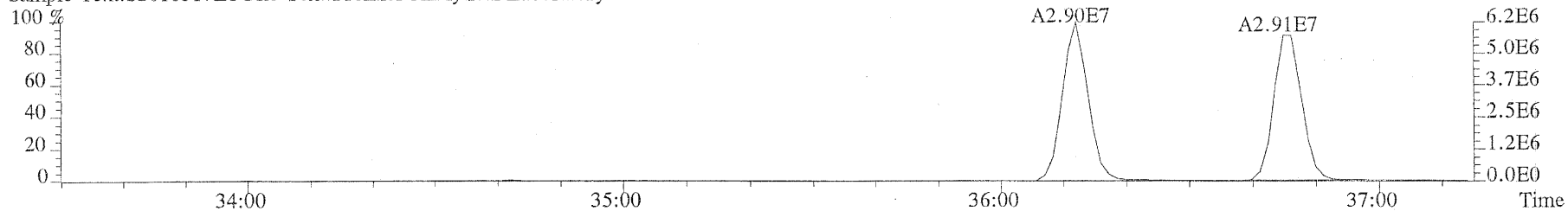
File:05JAN17Z #1-181 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



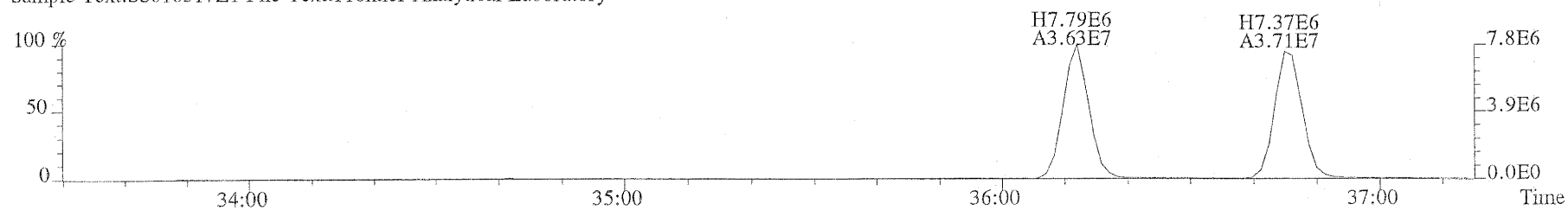
File:05JAN17Z #1-181 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



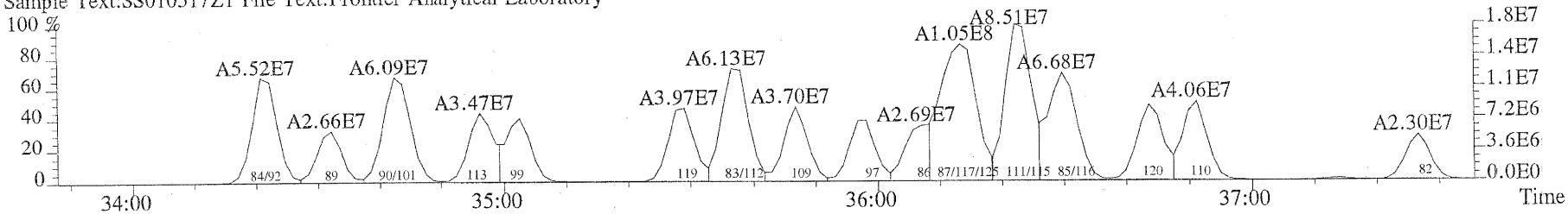
File:05JAN17Z #1-181 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



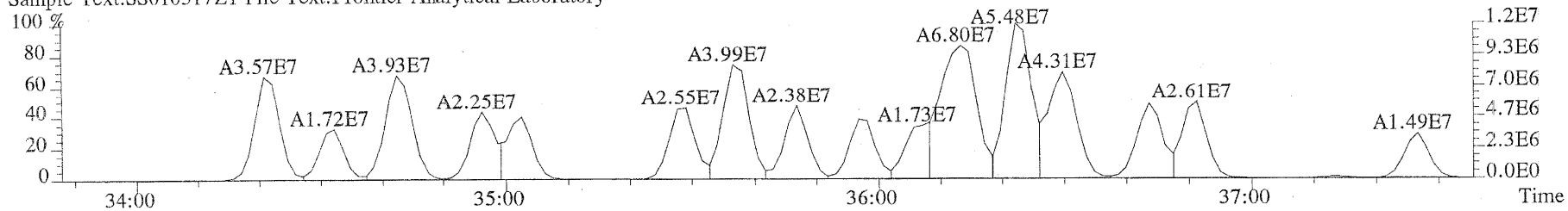
File:05JAN17Z #1-181 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 11:19:28 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:SS010517Z1 File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 11:19:28 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:SS010517Z1 File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-181 Acq: 5-JAN-2017 11:19:28 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
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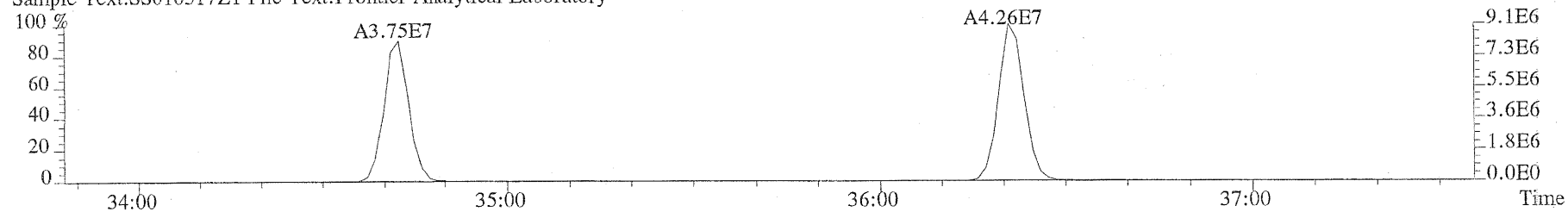
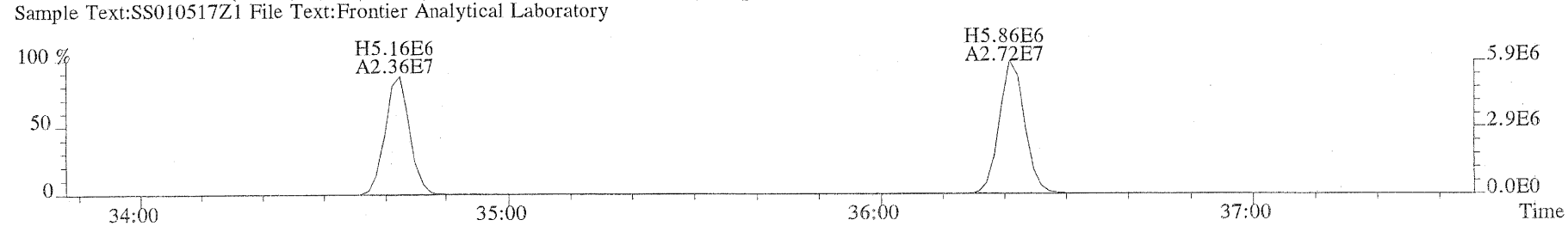
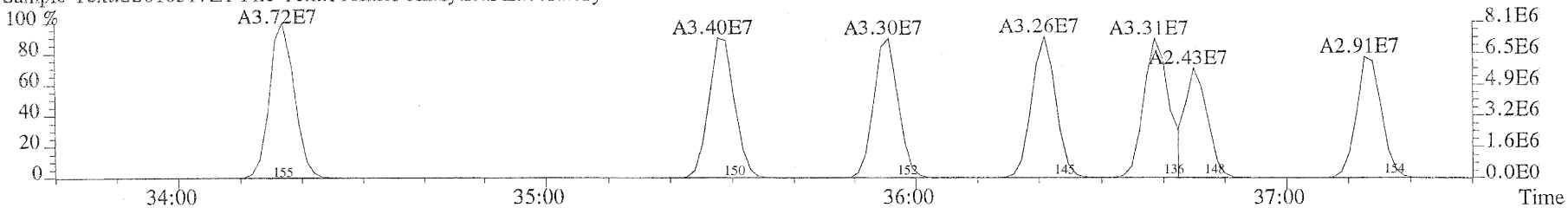


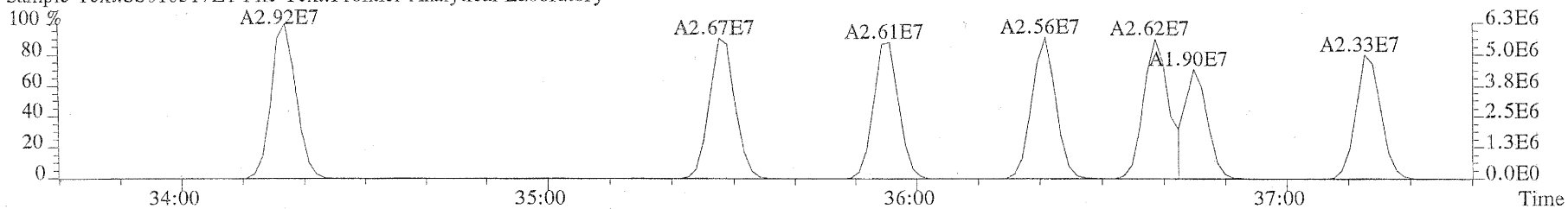
File:05JAN17Z #1-181 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



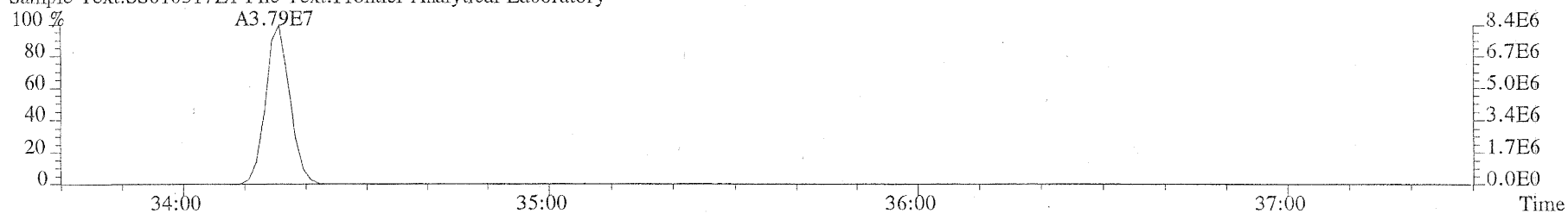
File:05JAN17Z #1-181 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



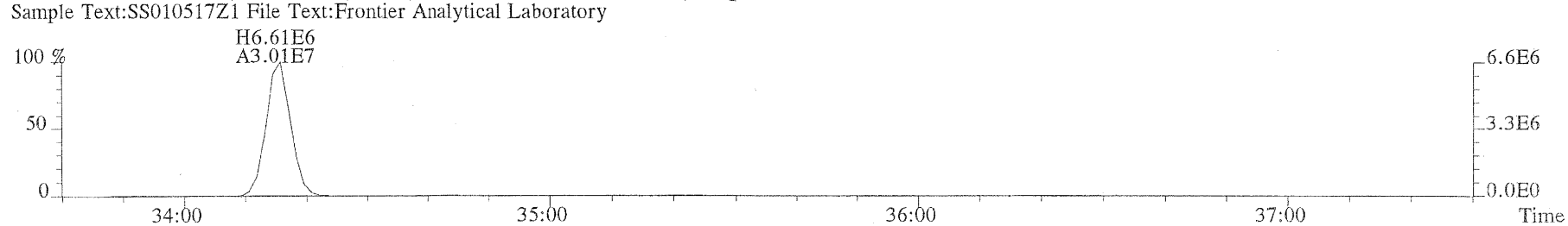
File:05JAN17Z #1-181 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



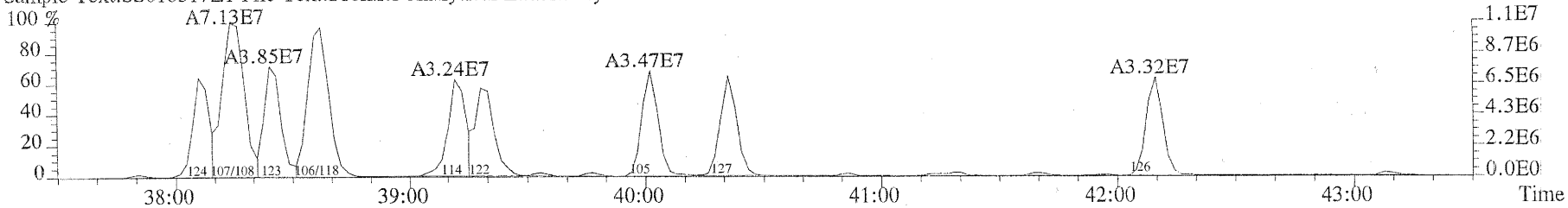
File:05JAN17Z #1-181 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



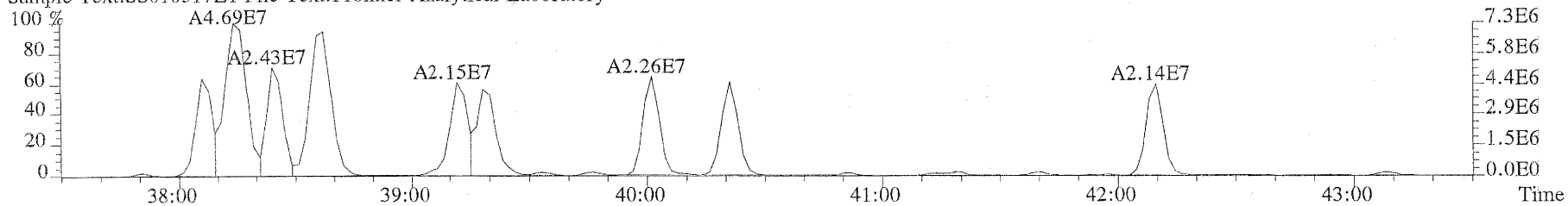
File:05JAN17Z #1-181 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



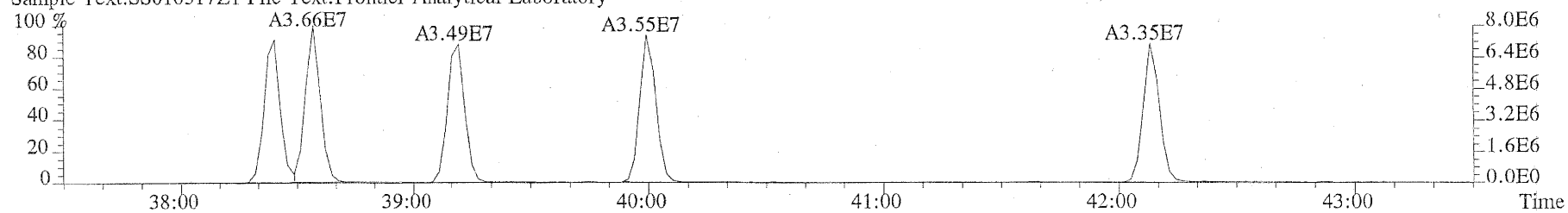
File:05JAN17Z #1-413 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



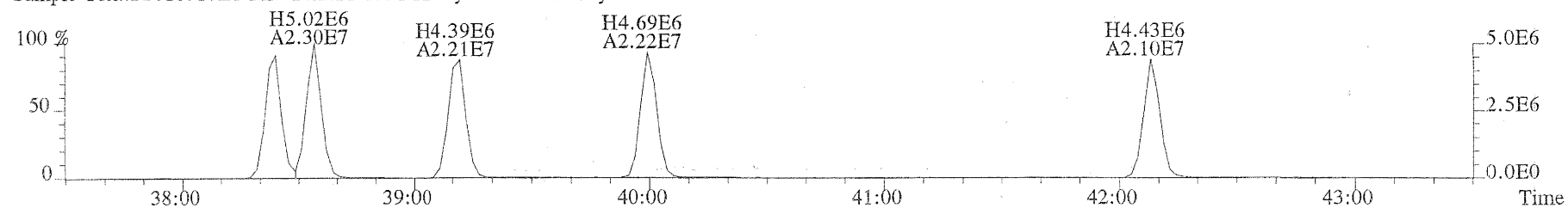
File:05JAN17Z #1-413 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



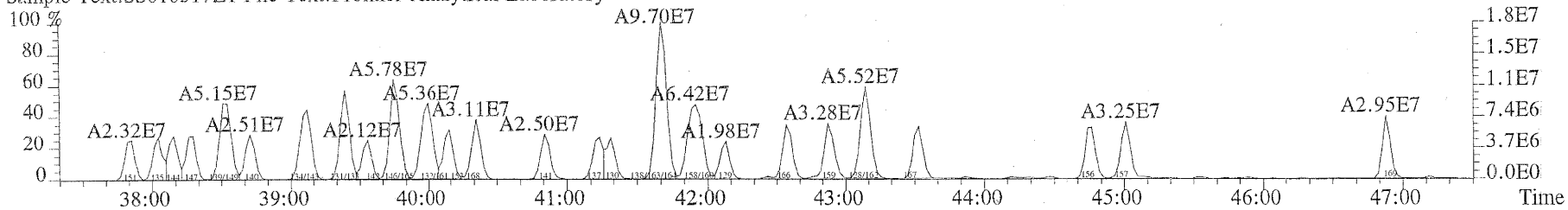
File:05JAN17Z #1-413 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



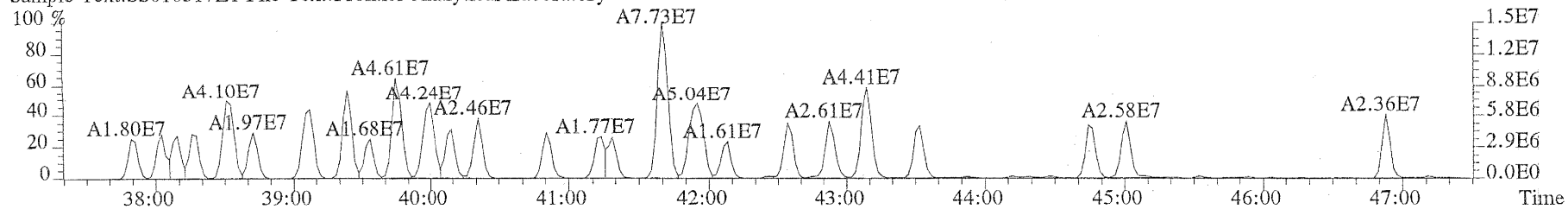
File:05JAN17Z #1-413 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



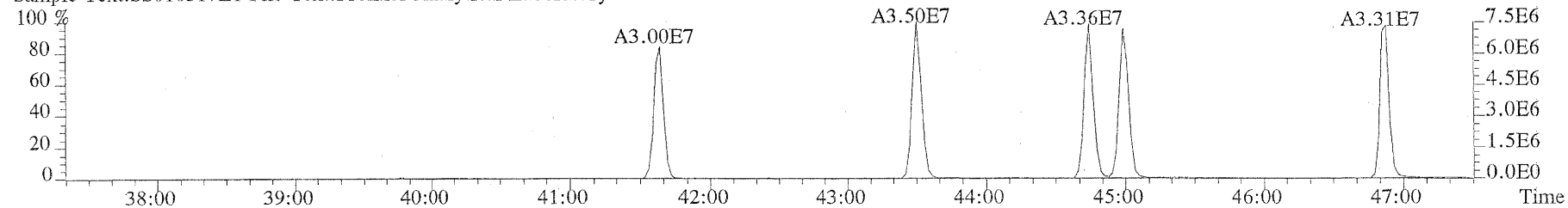
File:05JAN17Z #1-413 Acq: 5-JAN-2017 11:19:28 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 11:19:28 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:SS010517Z1 File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 11:19:28 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:SS010517Z1 File Text:Frontier Analytical Laboratory



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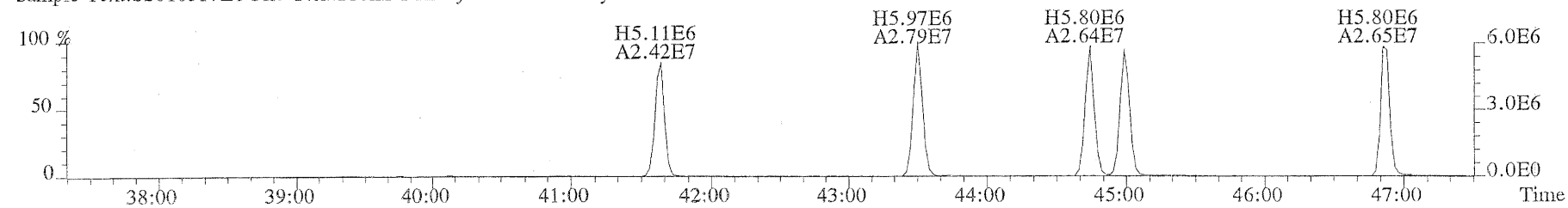
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



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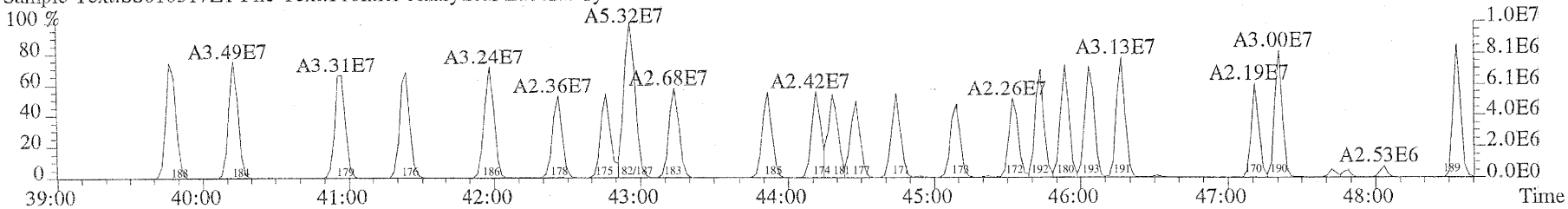
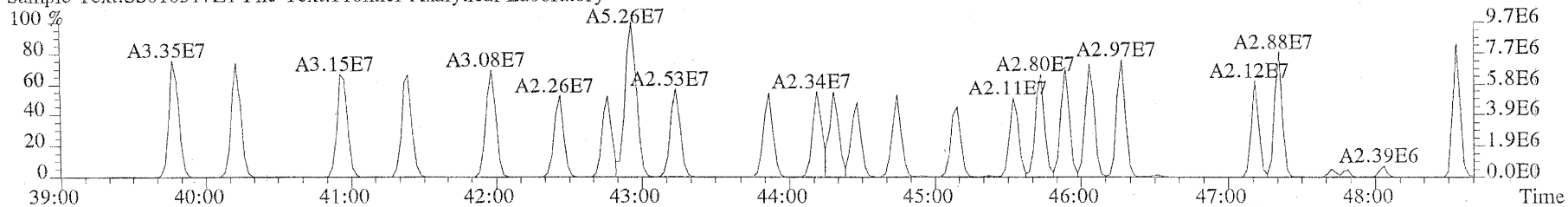
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-413 Acq: 5-JAN-2017 11:19:28 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:SS010517Z1 File Text:Frontier Analytical Laboratory



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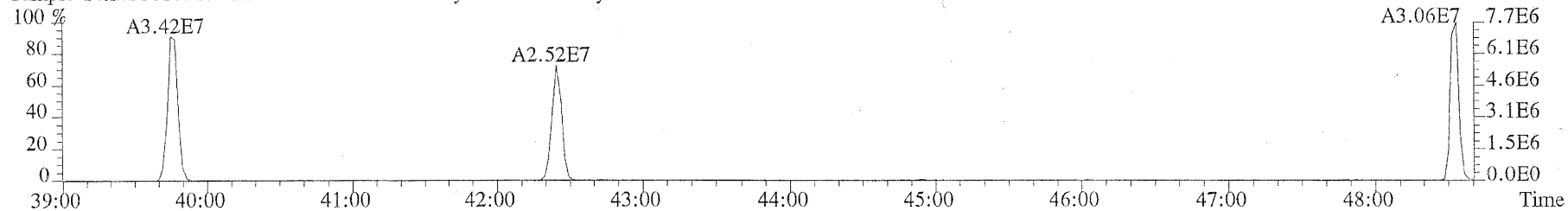
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



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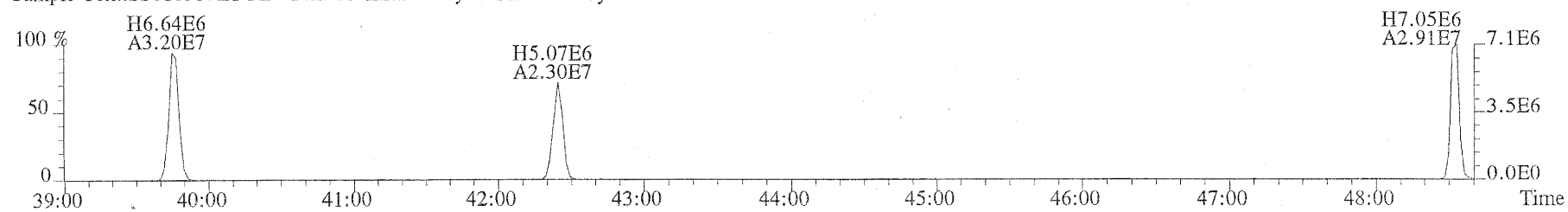
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



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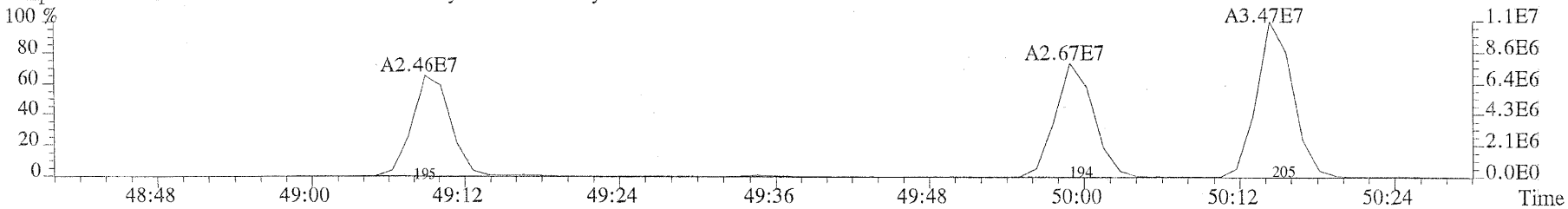
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



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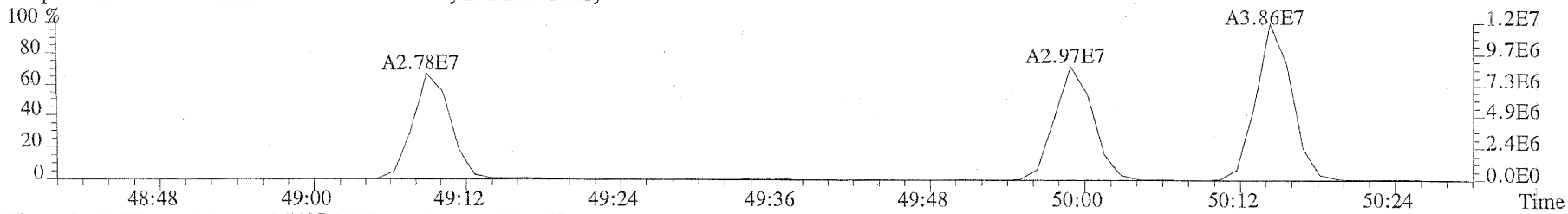

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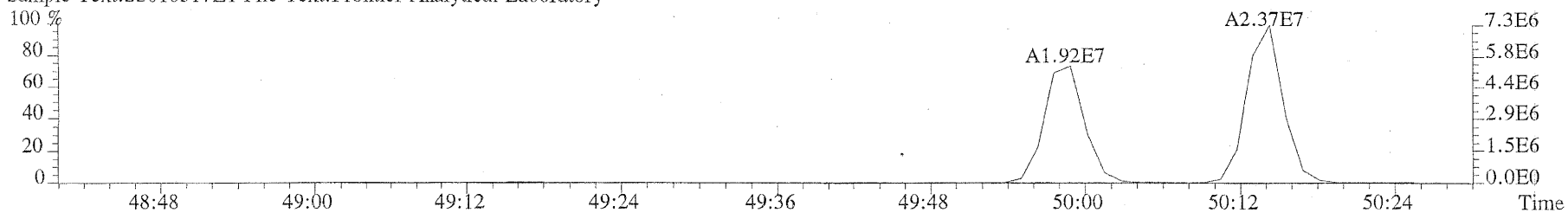
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



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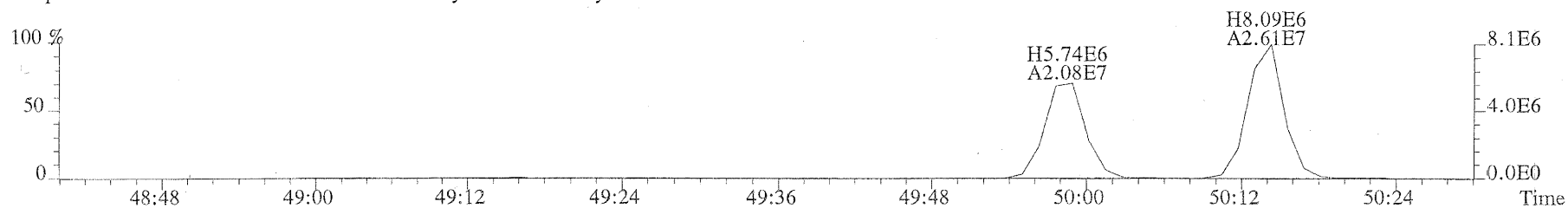
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



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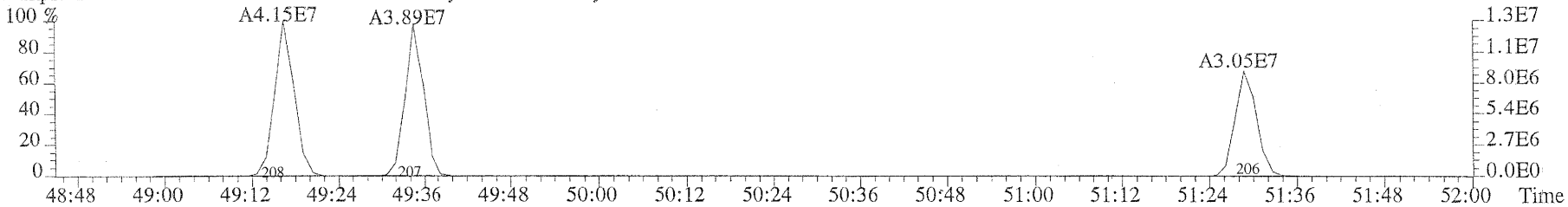
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



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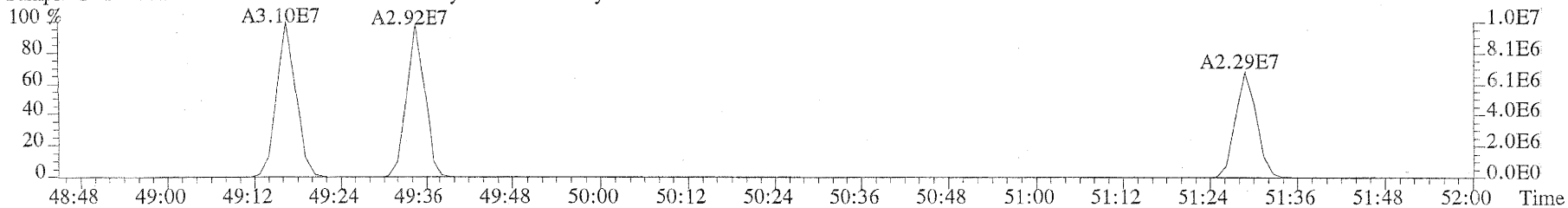

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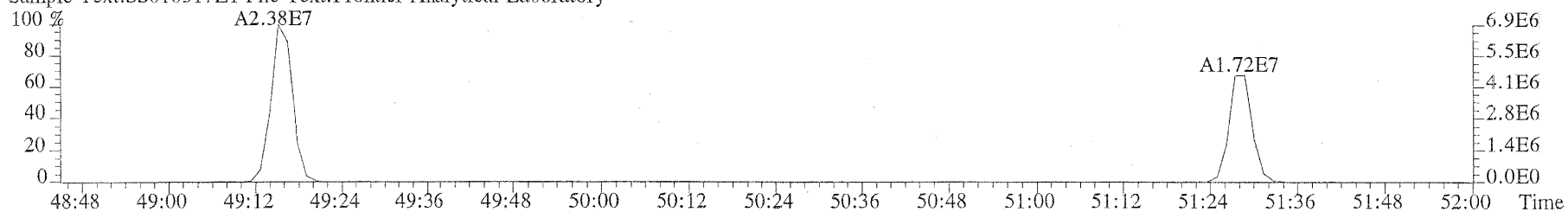
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



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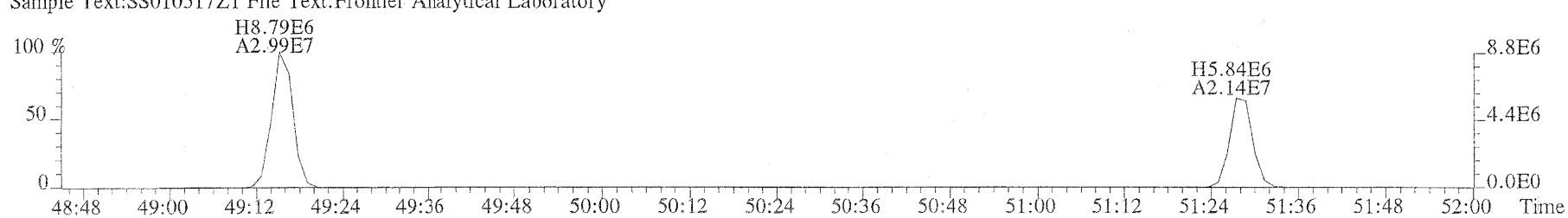
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



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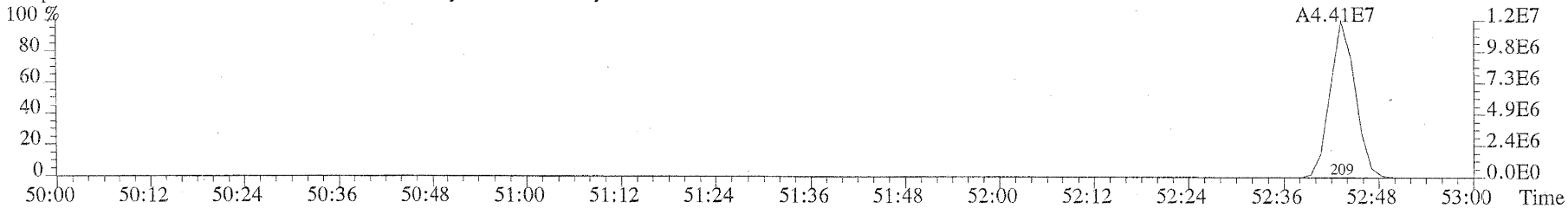
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



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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
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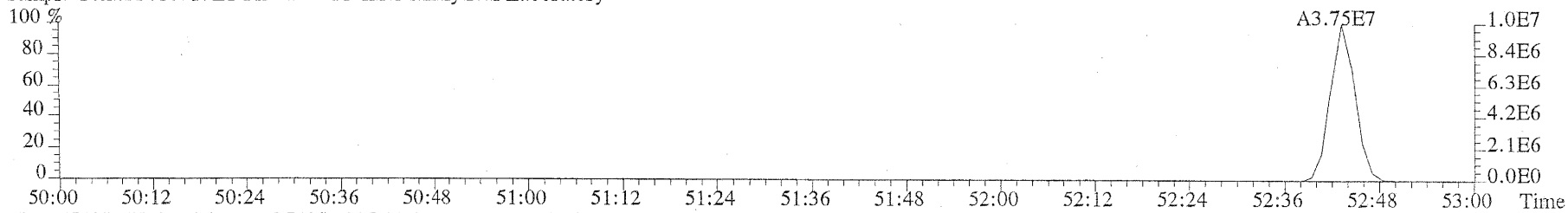

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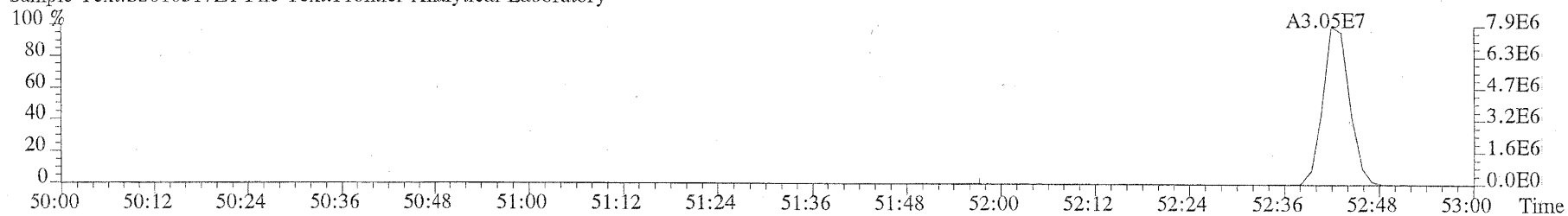
Sample Text:SS010517Z1 File Text:Frontier Analytical Laboratory



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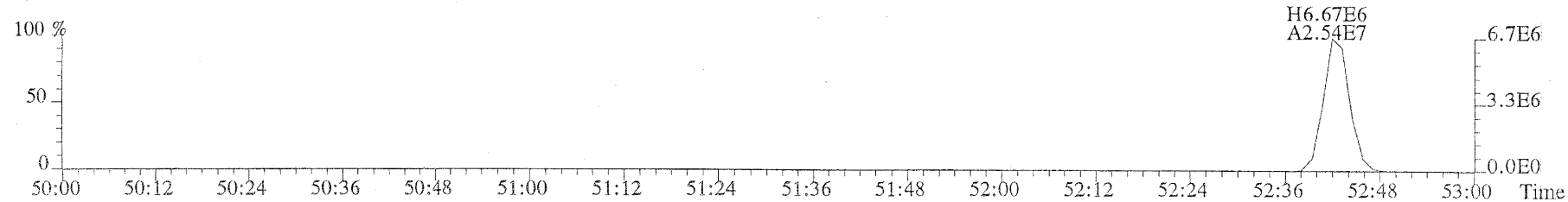


USEPA - ITD

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: 05JAN17Z Sam:16 Analysis Date: 6-JAN-17 00:56:06

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.02	2.66-3.60	y	45.4	37.5 - 62.5
PCB-3	M/M+2	3.06	2.66-3.60	y	45.7	37.5 - 62.5
PCB-4	M/M+2	1.50	1.33-1.79	y	47.2	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	48.0	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	45.8	37.5 - 62.5
PCB-37	M/M+2	1.04	0.88-1.20	y	47.2	37.5 - 62.5
PCB-54	M/M+2	0.77	0.65-0.89	y	49.1	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	46.8	37.5 - 62.5
PCB-81	M/M+2	0.80	0.65-0.89	y	47.5	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	46.5	37.5 - 62.5
PCB-105	M+2/M+4	1.54	1.32-1.78	y	47.0	37.5 - 62.5
PCB-114	M+2/M+4	1.59	1.32-1.78	y	47.6	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	49.2	37.5 - 62.5
PCB-123	M+2/M+4	1.53	1.32-1.78	y	50.0	37.5 - 62.5
PCB-126	M+2/M+4	1.52	1.32-1.78	y	46.5	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	47.7	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	48.7	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	49.2	37.5 - 62.5
PCB-167	M+2/M+4	1.27	1.05-1.43	y	49.5	37.5 - 62.5
PCB-169	M+2/M+4	1.31	1.05-1.43	y	49.7	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	47.1	37.5 - 62.5
PCB-189	M+2/M+4	1.03	0.89-1.21	y	47.1	37.5 - 62.5
PCB-202	M+2/M+4	0.95	0.76-1.02	y	45.2	37.5 - 62.5
PCB-205	M+2/M+4	0.92	0.76-1.02	y	48.8	37.5 - 62.5
PCB-206	M+4/M+6	1.34	1.13-1.53	y	48.8	37.5 - 62.5
PCB-208	M+4/M+6	1.29	1.13-1.53	y	50.3	37.5 - 62.5
PCB-209	M+4/M+6	1.17	0.99-1.33	y	49.7	37.5 - 62.5

Analyst: _____ Date: 1/6/17

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: 05JAN17Z Sam:16 Analysis Date: 6-JAN-17 00:56:06

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.04	2.66-3.60	y	105	50.0 - 145
13C-PCB-3	M/M+2	3.17	2.66-3.60	y	107	50.0 - 145
13C-PCB-4	M/M+2	1.55	1.33-1.79	y	97.9	50.0 - 145
13C-PCB-15	M/M+2	1.62	1.33-1.79	y	99.5	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	106	50.0 - 145
13C-PCB-37	M/M+2	1.07	0.88-1.20	y	84.5	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	88.2	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	80.9	50.0 - 145
13C-PCB-81	M/M+2	0.77	0.65-0.89	y	78.3	50.0 - 145
13C-PCB-104	M+2/M+4	1.56	1.32-1.78	y	111	50.0 - 145
13C-PCB-105	M+2/M+4	1.56	1.32-1.78	y	87.8	50.0 - 145
13C-PCB-114	M+2/M+4	1.56	1.32-1.78	y	89.3	50.0 - 145
13C-PCB-118	M+2/M+4	1.63	1.32-1.78	y	87.8	50.0 - 145
13C-PCB-123	M+2/M+4	1.60	1.32-1.78	y	87.6	50.0 - 145
13C-PCB-126	M+2/M+4	1.61	1.32-1.78	y	85.4	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	104	50.0 - 145
13C-PCB-156	M+2/M+4	1.27	1.05-1.43	y	95.4	50.0 - 145
13C-PCB-157	M+2/M+4	1.28	1.05-1.43	y	96.2	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	96.8	50.0 - 145
13C-PCB-169	M+2/M+4	1.25	1.05-1.43	y	91.6	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	111	50.0 - 145
13C-PCB-189	M+2/M+4	1.11	0.89-1.21	y	110	50.0 - 145
13C-PCB-202	M+2/M+4	0.89	0.76-1.02	y	126	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	93.1	50.0 - 145
13C-PCB-206	M+2/M+4	0.78	0.65-0.89	y	109	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	115	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	106	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	83.1	65.0 - 135
13C-PCB-111	M+2/M+4	1.56	1.32-1.78	y	98.8	75.0 - 125
13C-PCB-178	M+2/M+4	1.10	0.89-1.21	y	115	75.0 - 125

Analyst: [illegible] Date: 1/6/17

FAL ID: ST010517Z2 Filename: 05JAN17Z Sam:16 Acquired: 6-JAN-17 00:56:06 ICal: 1668FAL4-8-11-16
Client ID: CS382 ConCal: ST010517Z1 EndCal: ST010517Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	7.55e+06	3.02 y	14:33	1.05	45.4		2.50	-	-	*	-
13C-PCB-1	1.58e+07	3.04 y	14:32	1.14	105		2.50				105
PCB-3	7.54e+06	3.06 y	17:01	1.05	45.7		2.50	-	-	*	-
13C-PCB-3	1.58e+07	3.17 y	16:60	1.11	107		2.50				107
PCB-4	4.73e+06	1.50 y	18:15	1.14	47.2		2.50	-	-	*	-
13C-PCB-4	8.81e+06	1.55 y	18:14	0.68	97.9		2.50				97.9
PCB-15	7.09e+06	1.57 y	23:49	1.09	48.0		2.50	-	-	*	-
13C-PCB-15	1.36e+07	1.62 y	23:48	1.02	99.5		2.50				99.5
PCB-19	4.63e+06	1.04 y	22:09	1.16	45.8		2.50	-	-	*	-
13C-PCB-19	8.70e+06	1.09 y	22:07	0.61	106		2.50				106
13C-PCB-9	1.33e+07	1.59 y	19:55	-	9.74		2.50				
PCB-37	6.08e+06	1.04 y	30:28	1.14	47.2		2.50	-	-	*	-
13C-PCB-37	1.13e+07	1.07 y	30:27	1.38	84.5		2.50				84.5
PCB-54	5.53e+06	0.77 y	25:41	1.05	49.1		2.50	-	-	*	-
13C-PCB-54	1.07e+07	0.80 y	25:40	1.25	88.2		2.50				88.2
PCB-104	5.22e+06	1.59 y	30:08	1.14	46.5		2.50	-	-	*	-
13C-PCB-104	9.82e+06	1.56 y	30:07	0.91	111		2.50				111
13C-PCB-28	1.20e+07	1.04 y	26:46	1.48	83.1		2.50				83.1
13C-PCB-52	9.71e+06	0.79 y	29:01	-	11.6		2.50				
PCB-81	5.09e+06	0.80 y	36:16	1.14	47.5		2.50	-	-	*	-
13C-PCB-81	9.37e+06	0.77 y	36:13	1.27	78.3		2.50				78.3
PCB-77	4.99e+06	0.79 y	36:49	1.10	46.8		2.50	-	-	*	-
13C-PCB-77	9.68e+06	0.79 y	36:47	1.27	80.9		2.50				80.9
PCB-155	5.65e+06	1.26 y	34:18	1.11	47.7		2.50	-	-	*	-
13C-PCB-155	1.07e+07	1.28 y	34:17	1.09	104		2.50				104
13C-PCB-111	1.16e+07	1.56 y	36:23	1.25	98.8		2.50				98.8
13C-PCB-101	9.41e+06	1.55 y	34:43	-	12.9		2.50				
PCB-123	4.45e+06	1.53 y	38:27	1.05	50.0		2.50	-	-	*	-
13C-PCB-123	8.45e+06	1.60 y	38:26	1.20	87.6		2.50				87.6
PCB-118	4.84e+06	1.56 y	38:37	1.07	49.2		2.50	-	-	*	-
13C-PCB-118	9.24e+06	1.63 y	38:36	1.31	87.8		2.50				87.8
PCB-114	4.56e+06	1.59 y	39:15	1.08	47.6		2.50	-	-	*	-
13C-PCB-114	8.85e+06	1.56 y	39:14	1.23	89.3		2.50				89.3
PCB-105	4.43e+06	1.54 y	40:03	1.08	47.0		2.50	-	-	*	-
13C-PCB-105	8.74e+06	1.56 y	40:01	1.24	87.8		2.50				87.8
PCB-126	3.99e+06	1.52 y	42:11	1.07	46.5		2.50	-	-	*	-
13C-PCB-126	8.04e+06	1.61 y	42:10	1.17	85.4		2.50				85.4
PCB-167	4.67e+06	1.27 y	43:34	0.98	49.5		2.50	-	-	*	-
13C-PCB-167	9.63e+06	1.26 y	43:32	1.24	96.8		2.50				96.8
PCB-156	4.45e+06	1.26 y	44:48	1.01	48.7		2.50	-	-	*	-
13C-PCB-156	9.04e+06	1.27 y	44:46	1.18	95.4		2.50				95.4
PCB-157	4.47e+06	1.27 y	45:02	0.96	49.2		2.50	-	-	*	-
13C-PCB-157	9.44e+06	1.28 y	45:01	1.22	96.2		2.50				96.2
PCB-169	4.04e+06	1.31 y	46:54	1.00	49.7		2.50	-	-	*	-
13C-PCB-169	8.14e+06	1.25 y	46:53	1.11	91.6		2.50				91.6
PCB-188	5.62e+06	1.05 y	39:48	1.09	47.1		2.50	-	-	*	-
13C-PCB-188	1.09e+07	1.09 y	39:48	1.22	111		2.50				111
PCB-189	4.58e+06	1.03 y	48:35	1.14	47.1		2.50	-	-	*	-
13C-PCB-189	8.53e+06	1.11 y	48:35	0.97	110		2.50				110
PCB-202	4.21e+06	0.95 y	44:56	1.05	45.2		2.50	-	-	*	-
13C-PCB-202	8.83e+06	0.89 y	44:56	0.88	126		2.50				126
13C-PCB-178	7.11e+06	1.10 y	42:26	0.77	115		2.50				115
13C-PCB-138	8.02e+06	1.25 y	41:40	-	11.5		2.50				

FAL ID: ST010517Z2 Filename: 05JAN17Z Sam:16 Acquired: 6-JAN-17 00:56:06 ICal: 1668FAL4-8-11-16
Client ID: CS382 ConCal: ST010517Z1 EndCal: ST010517Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	3.32e+06	0.92 y	50:17	1.02	48.8	2.50	-	-	*	-
13C-PCB-205	6.68e+06	0.91 y	50:17	1.38	93.1	2.50				93.1
PCB-208	3.69e+06	1.29 y	49:18	0.93	50.3	2.50	-	-	*	-
13C-PCB-208	7.88e+06	0.80 y	49:18	1.31	115	2.50				115
PCB-206	2.62e+06	1.34 y	51:33	0.94	48.8	2.50	-	-	*	-
13C-PCB-206	5.72e+06	0.78 y	51:31	1.01	109	2.50				109
PCB-209	4.04e+06	1.17 y	52:48	1.10	49.7	2.50	-	-	*	-
13C-PCB-209	7.37e+06	1.21 y	52:47	1.34	106	2.50				106
13C-PCB-194	5.20e+06	0.92 y	50:00	-	10.3	2.50				

Analyst: _____ Date: 1/6/17

Frontier Analytical Laboratory - Acquisition Log

Run Name:05JAN17Z Instrument: FAL4 GC: DB1 Experiment:1668PCB

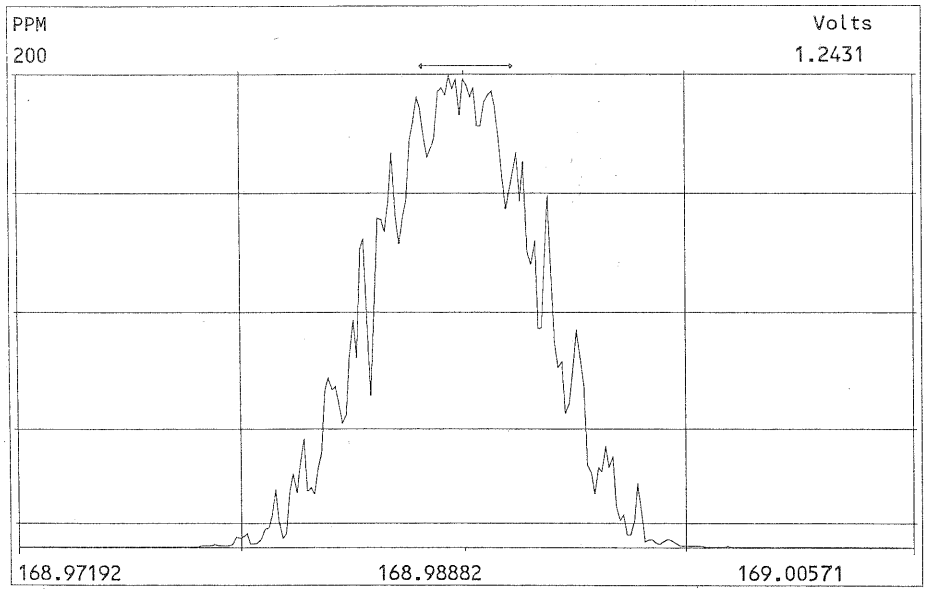
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
05JAN17Z	1	ST010517Z1	CS381	5-JAN-17 10:21:09	ST010517Z1	ST010517Z2	BS
05JAN17Z	2	SS010517Z1	CS20981	5-JAN-17 11:19:28	ST010517Z1	ST010517Z2	BS
05JAN17Z	3	03953-001-0001-MB	Method Blank	5-JAN-17 12:17:47	ST010517Z1	ST010517Z2	BS
05JAN17Z	4	03953-001-0001-OPR	OPR	5-JAN-17 13:16:07	ST010517Z1	ST010517Z2	BS
05JAN17Z	5	10302-004-0001-SA	P1424	5-JAN-17 14:14:29	ST010517Z1	ST010517Z2	BS
05JAN17Z	6	10302-022-0001-SA	P1461	5-JAN-17 15:12:48	ST010517Z1	ST010517Z2	BS
05JAN17Z	7	09396-010-B002-SA	MAF-SC-11_6-8	5-JAN-17 16:11:08	ST010517Z1	ST010517Z2	BS
05JAN17Z	8	09402-010-B002-SA	MAF-SC-20_1-2	5-JAN-17 17:09:28	ST010517Z1	ST010517Z2	BS
05JAN17Z	9	10311-004-0001-SA	LDW-BA-SU-ENR-CA-CORE	5-JAN-17 18:07:48	ST010517Z1	ST010517Z2	BS
05JAN17Z	10	10311-005-0001-SA	LDW-BA-SU-ENR-CB-CORE	5-JAN-17 19:06:07	ST010517Z1	ST010517Z2	BS
05JAN17Z	11	10311-006-0001-SA	LDW-BA-SU-ENR-CC-CORE	5-JAN-17 20:04:27	ST010517Z1	ST010517Z2	BS
05JAN17Z	12	10311-001-0001-SA	LDW-BA-SU-ENR+AC-CA-CORE	5-JAN-17 21:02:46	ST010517Z1	ST010517Z2	BS
05JAN17Z	13	10311-002-0001-SA	LDW-BA-SU-ENR+AC-CB-CORE	5-JAN-17 22:01:06	ST010517Z1	ST010517Z2	BS
05JAN17Z	14	10311-003-0001-SA	LDW-BA-SU-ENR+AC-CC-CORE	5-JAN-17 22:59:26	ST010517Z1	ST010517Z2	BS
05JAN17Z	15	SB010517Z1	ZZZZZZ	5-JAN-17 23:57:45	ST010517Z1	ST010517Z2	BS
05JAN17Z	16	ST010517Z2	CS382	6-JAN-17 00:56:06	ST010517Z1	ST010517Z2	BS

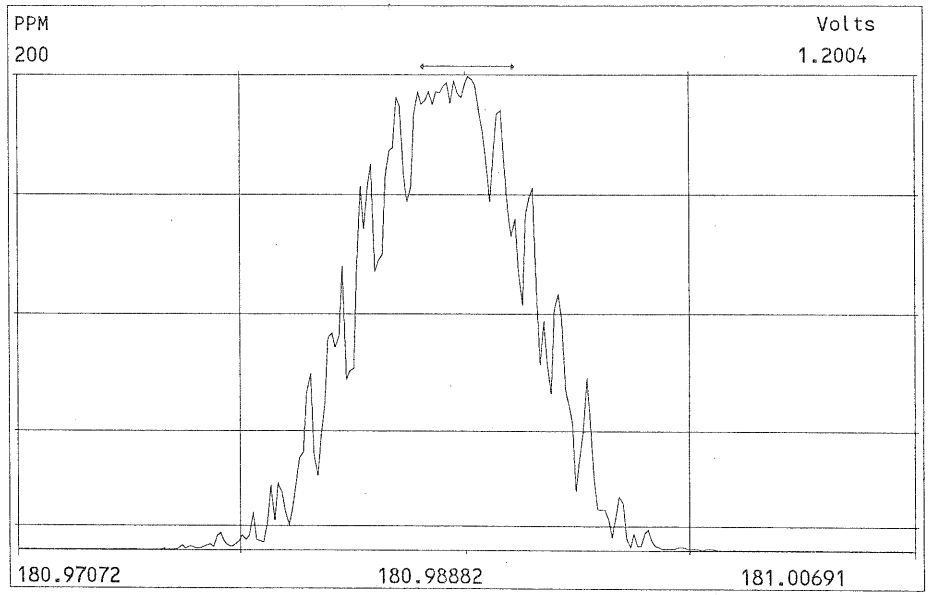
1/6/17

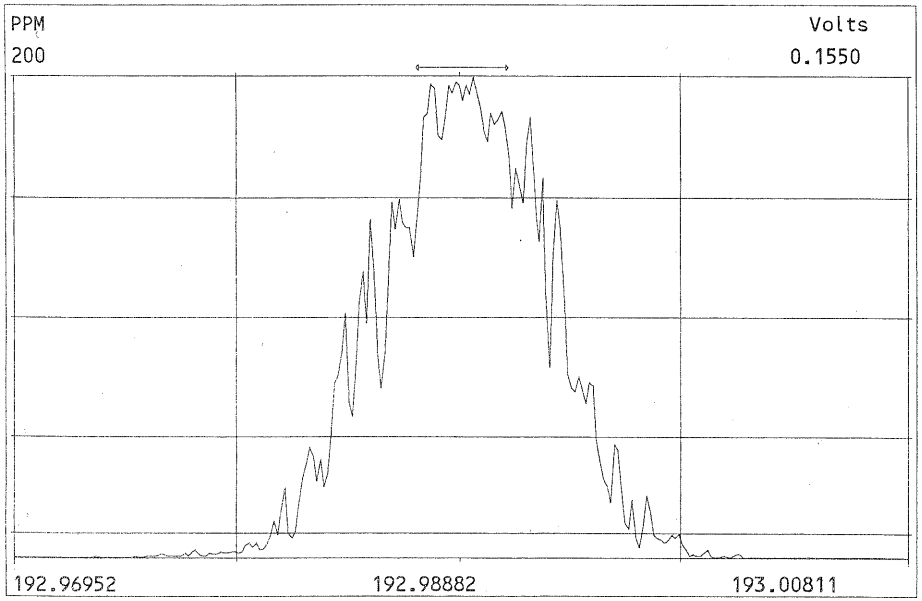
Data Backed Up:_____

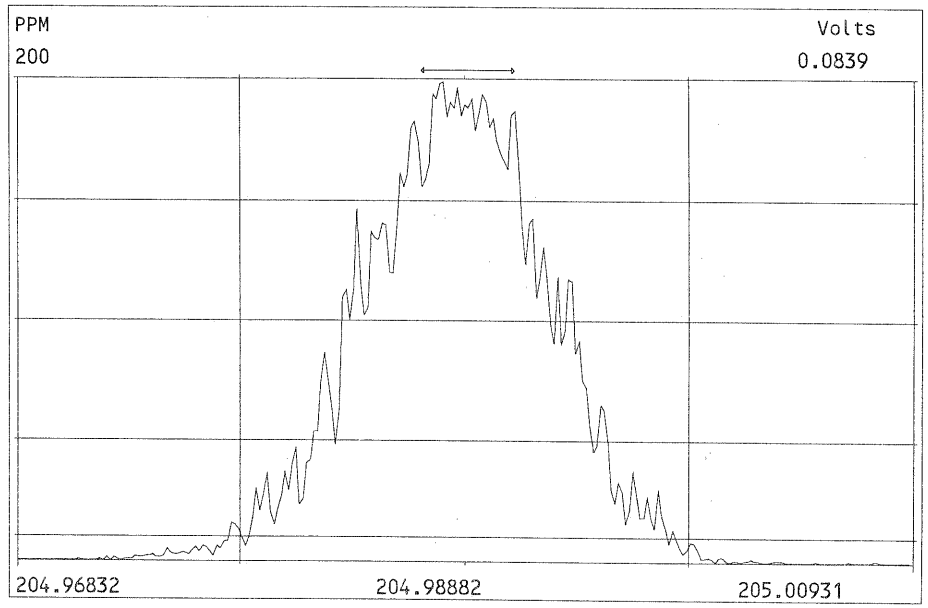
Date:_____

Peak Locate Examination: 5-JAN-2017:10:18 File:05JAN17Z
Experiment:1668PCB Function:1 Reference:PFK8

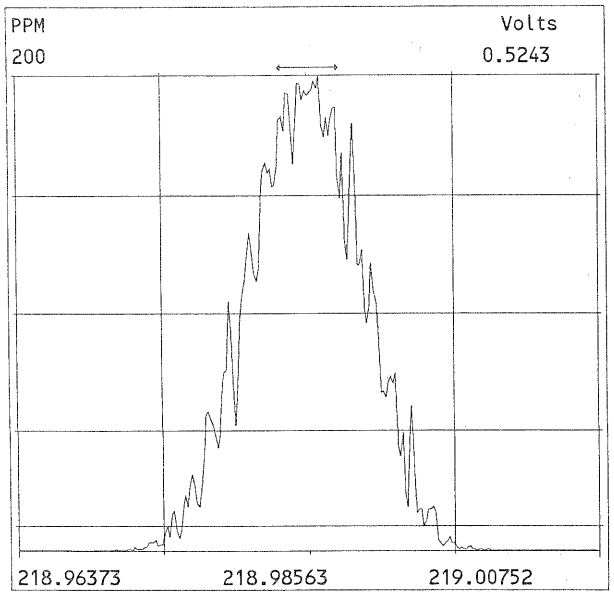


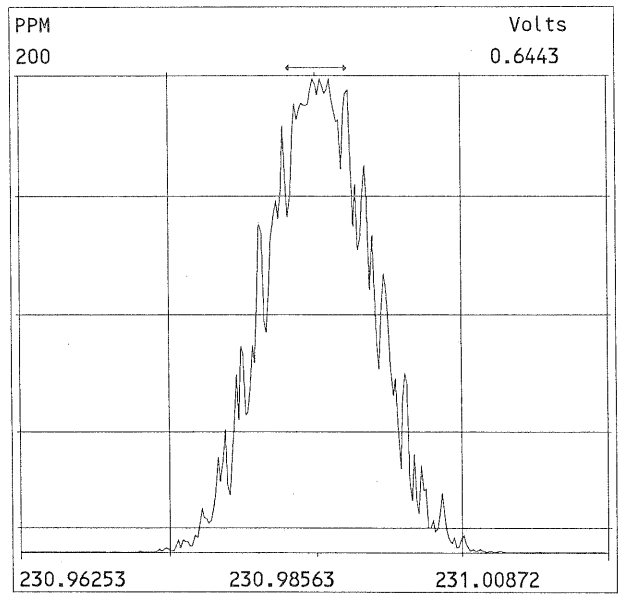


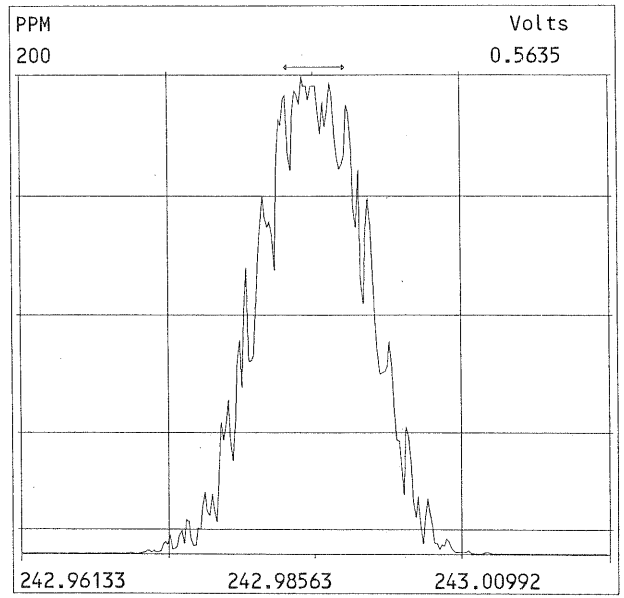


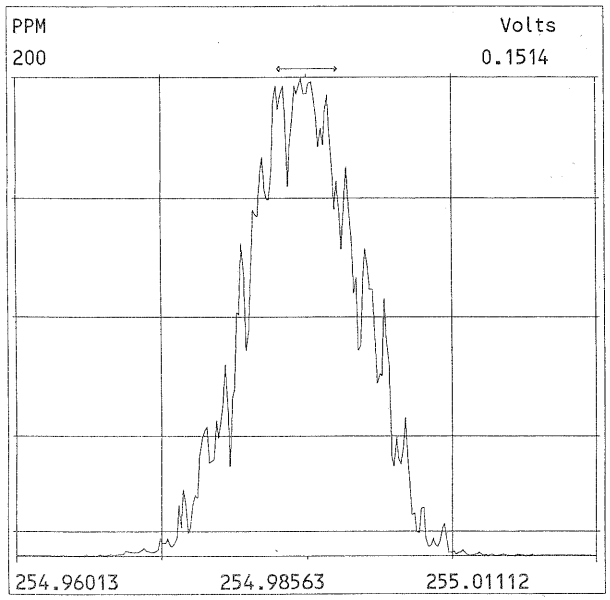


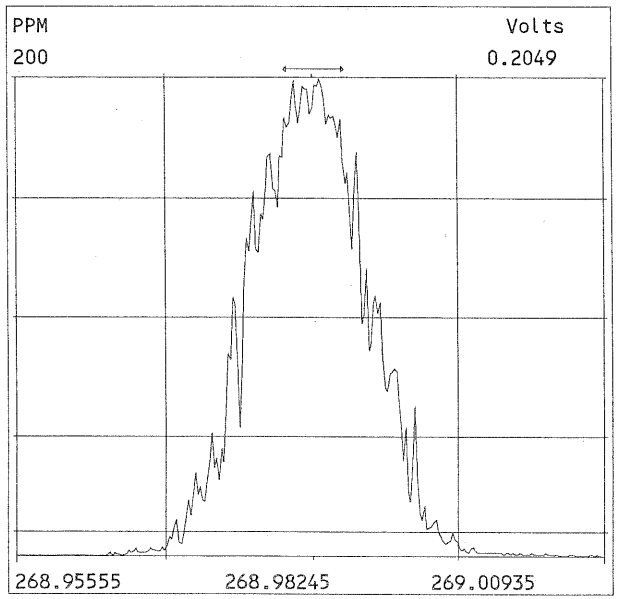
Peak Locate Examination: 5-JAN-2017:10:18 File:05JAN17Z
Experiment:1668PCB Function:2 Reference:PFK8/

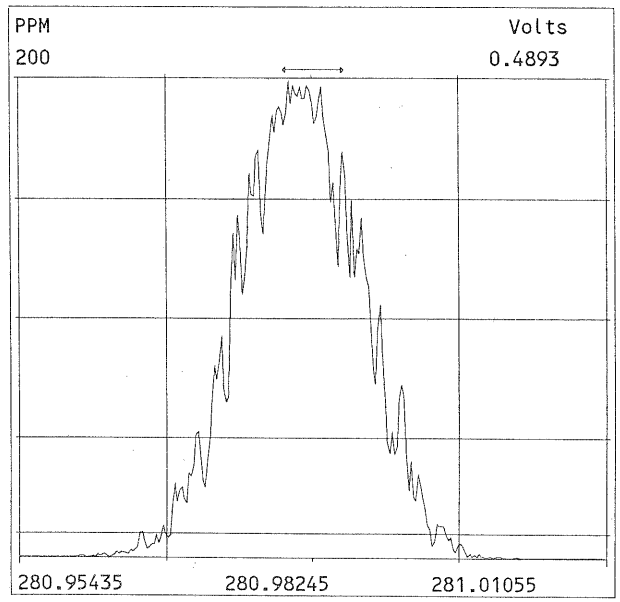




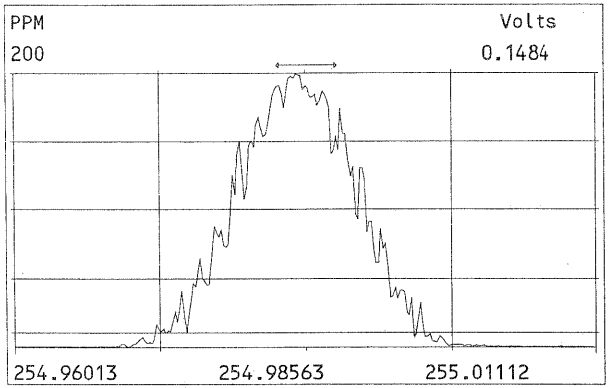


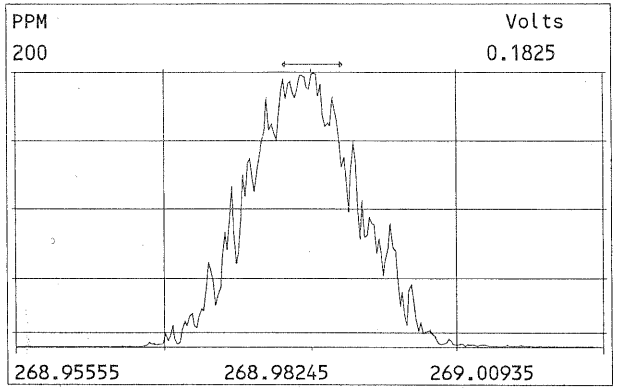


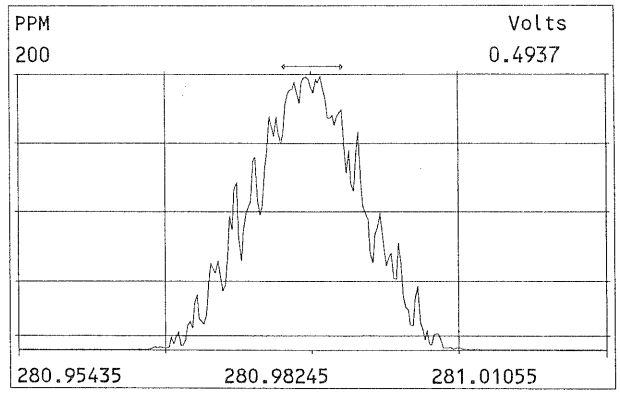


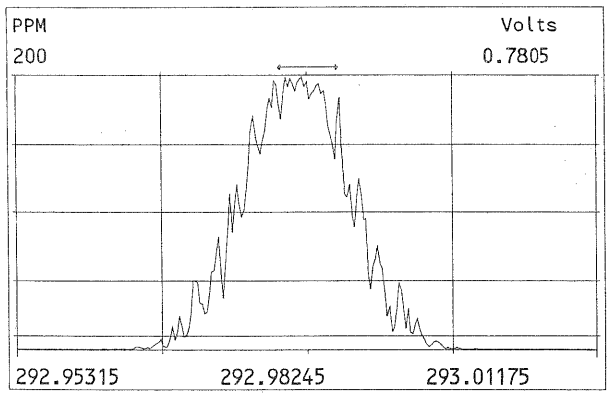


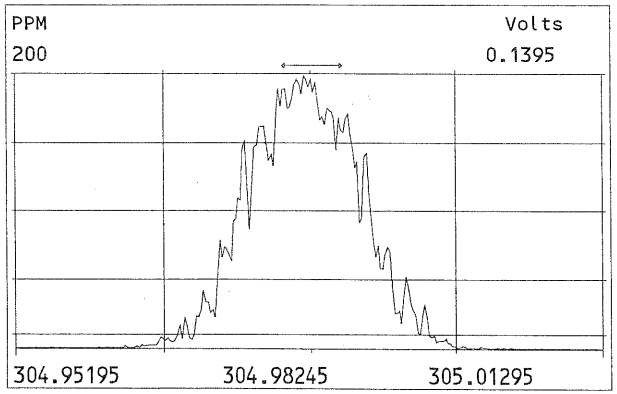
Peak Locate Examination: 5-JAN-2017:10:19 File:05JAN17Z
Experiment:1668PCB Function:3 Reference:PFK8/

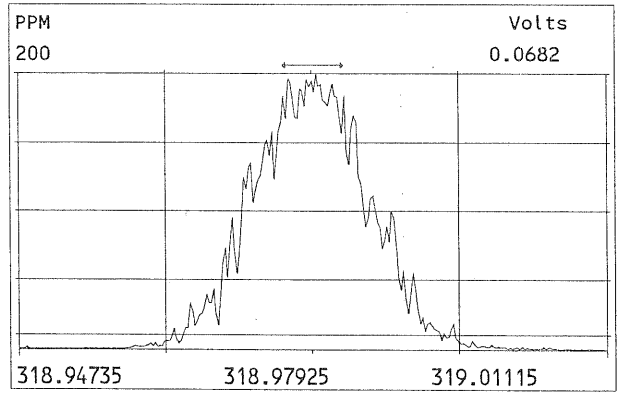


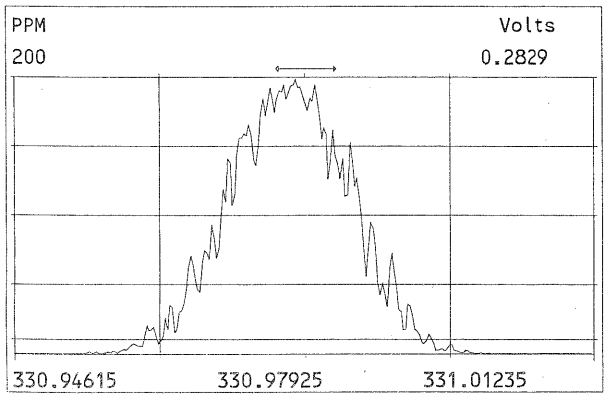


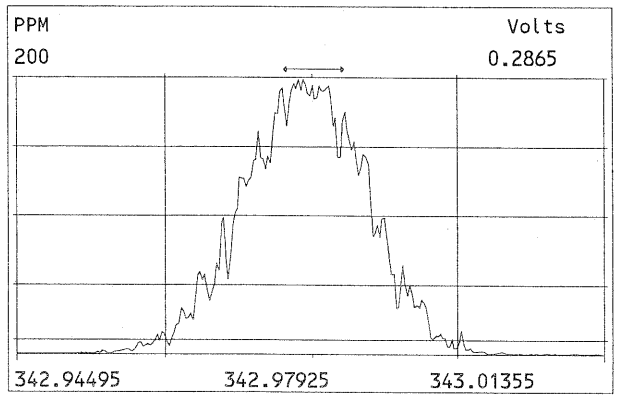




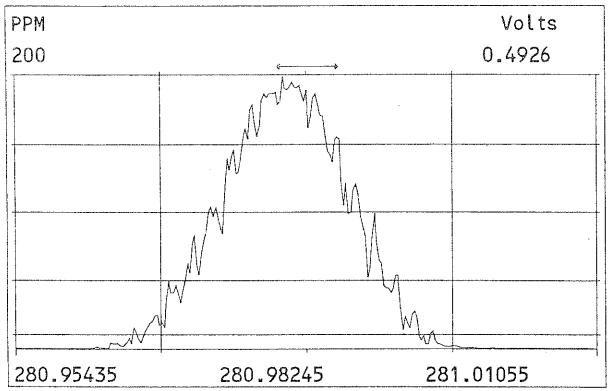


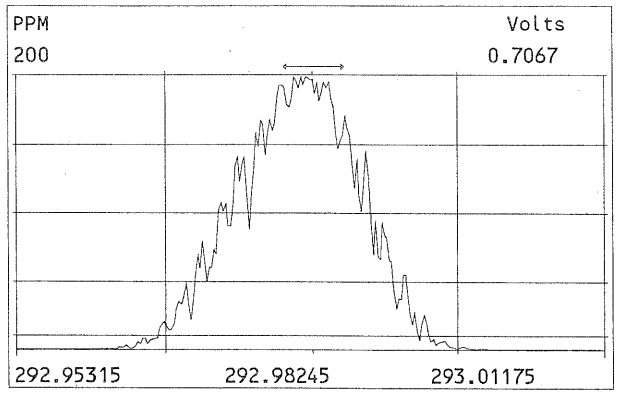


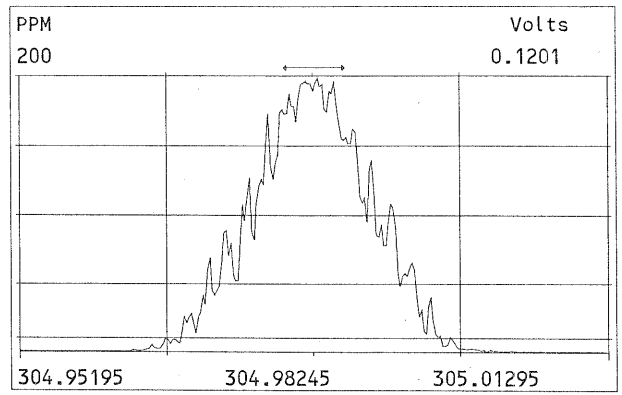


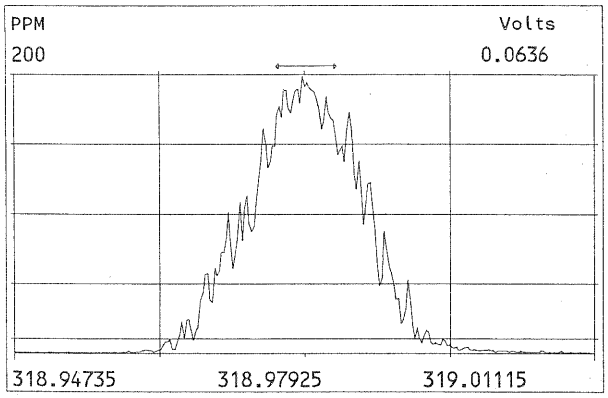


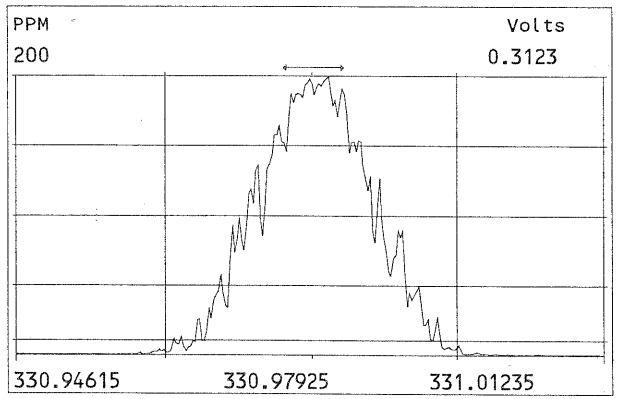
Peak Locate Examination: 5-JAN-2017:10:19 File:05JAN17Z
Experiment:1668PCB Function:4 Reference:PFK 81

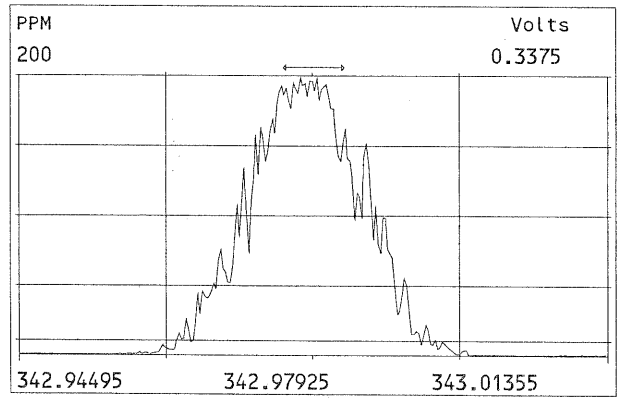


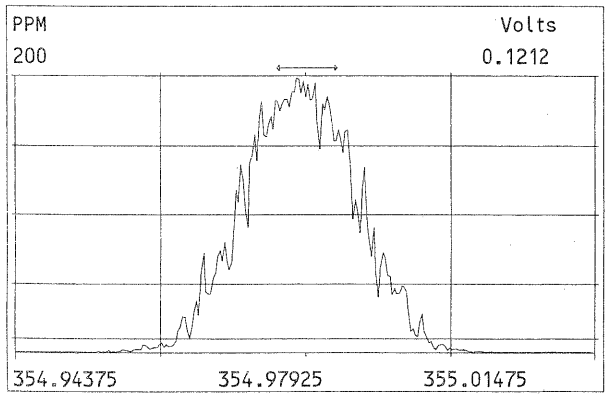


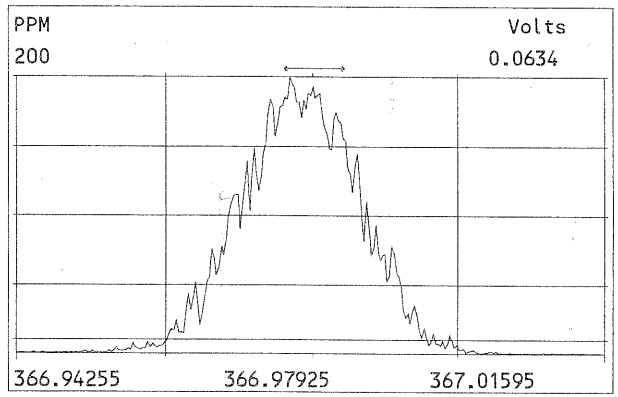


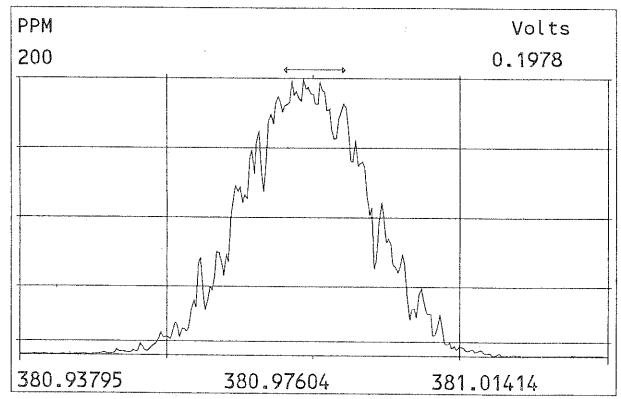




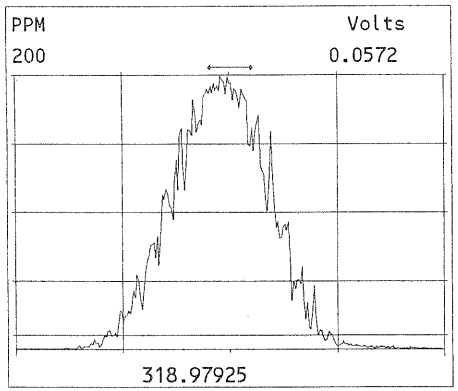


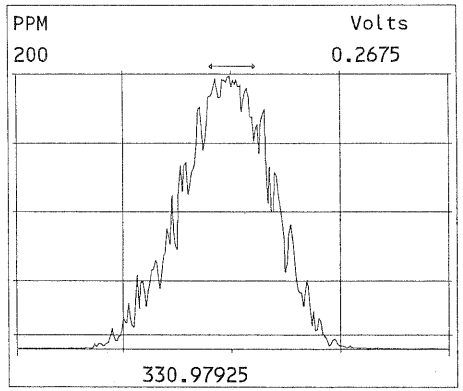


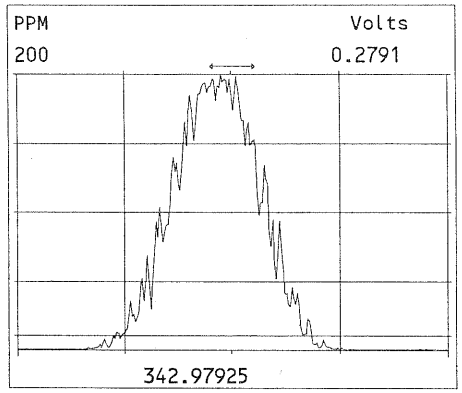


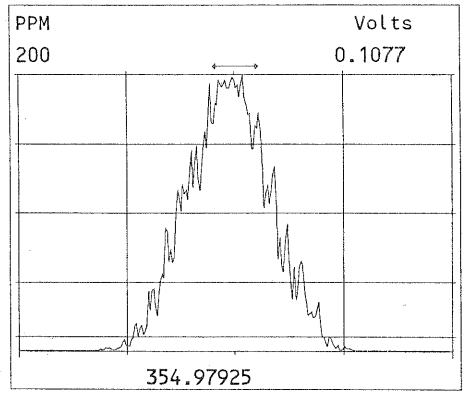


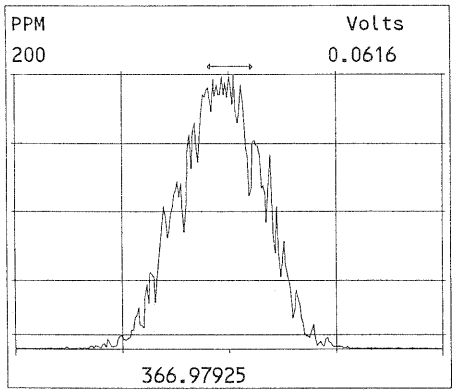
Peak Locate Examination: 5-JAN-2017:10:20 File:05JAN17Z
Experiment:1668PCB Function:5 Reference:PFK 81

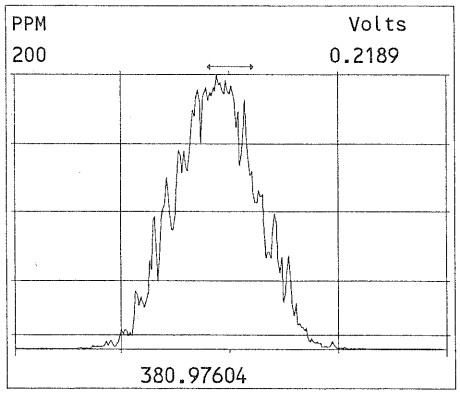


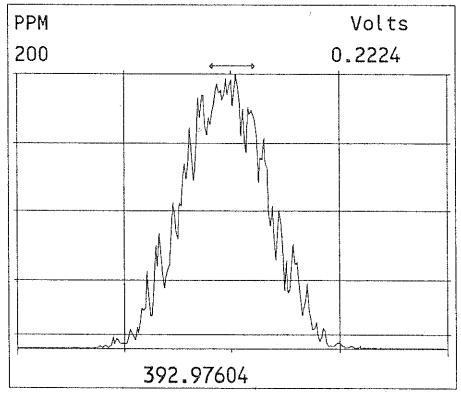


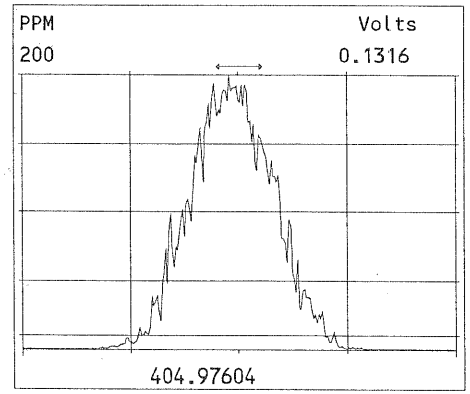


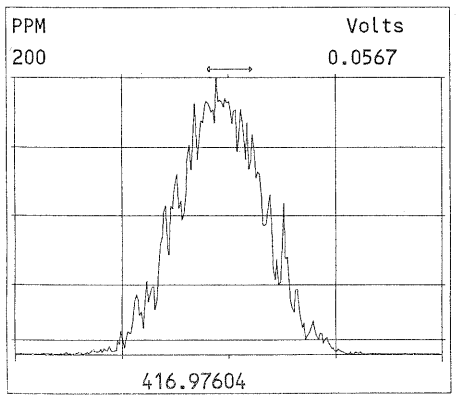


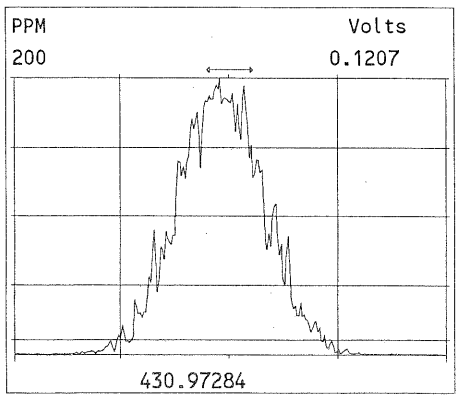


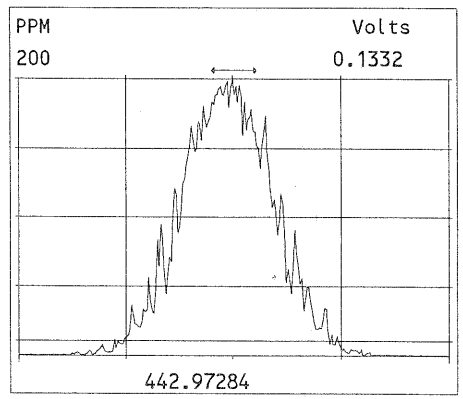




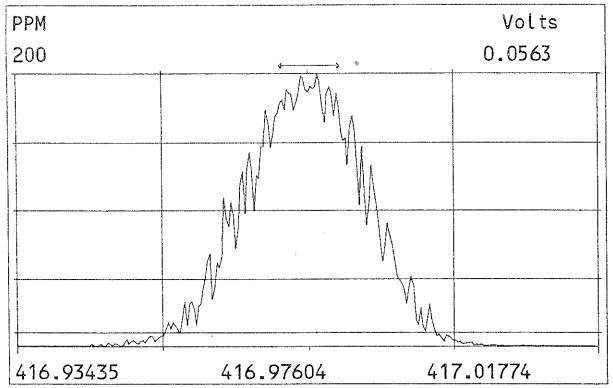


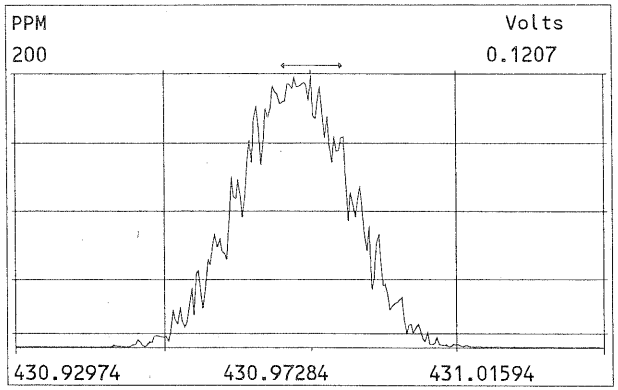


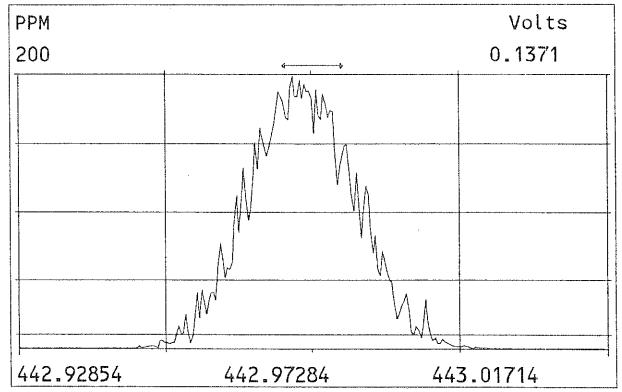


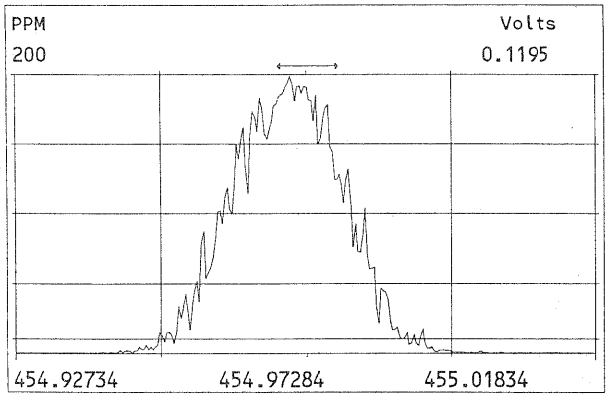


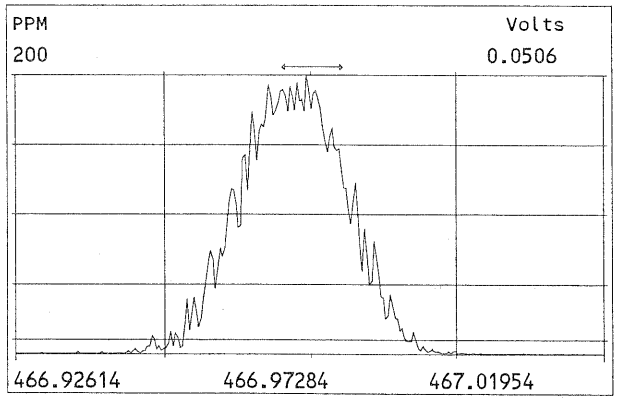
Peak Locate Examination: 5-JAN-2017:10:20 File:05JAN17Z
Experiment:1668PCB Function:6 Reference:PFK 81

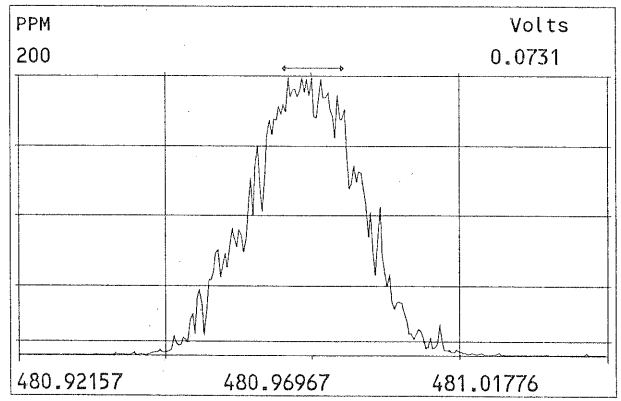


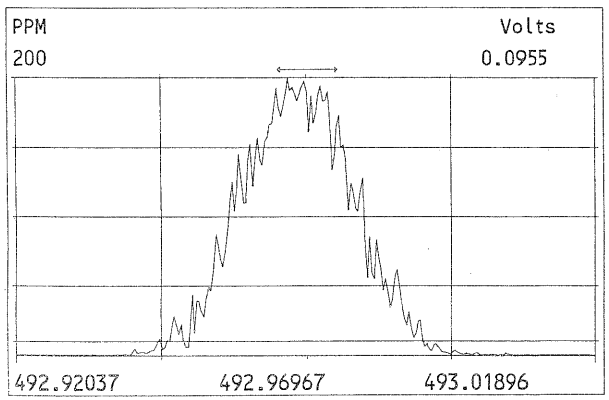


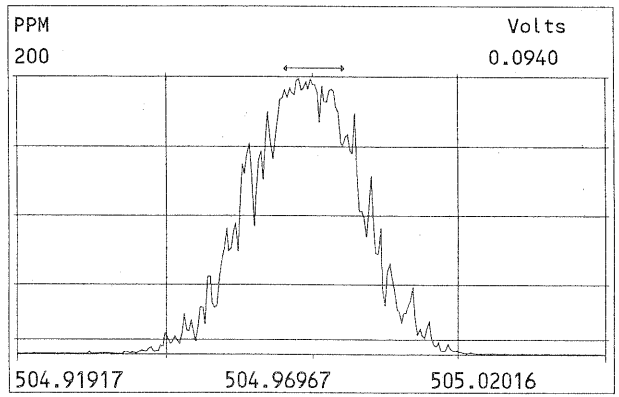


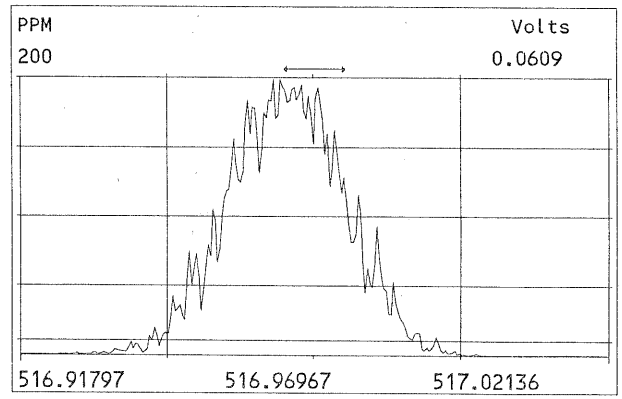




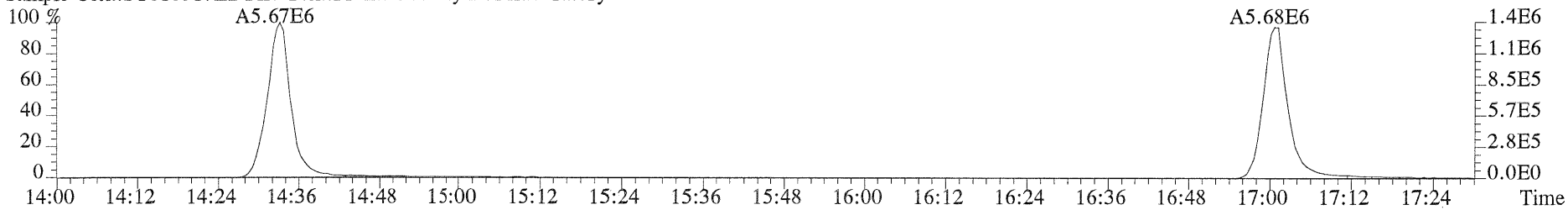




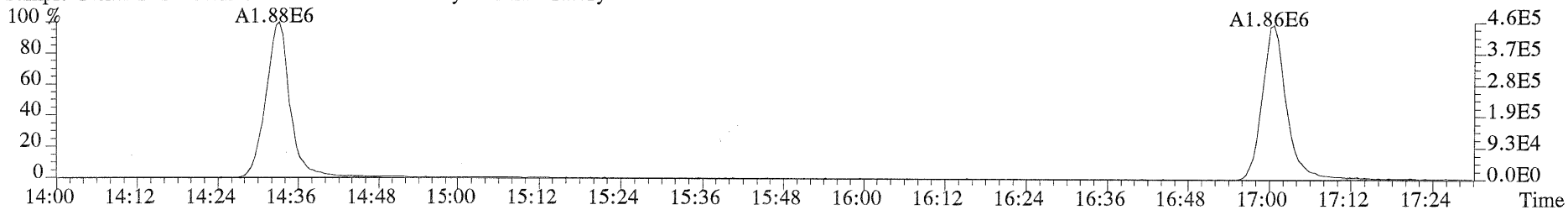




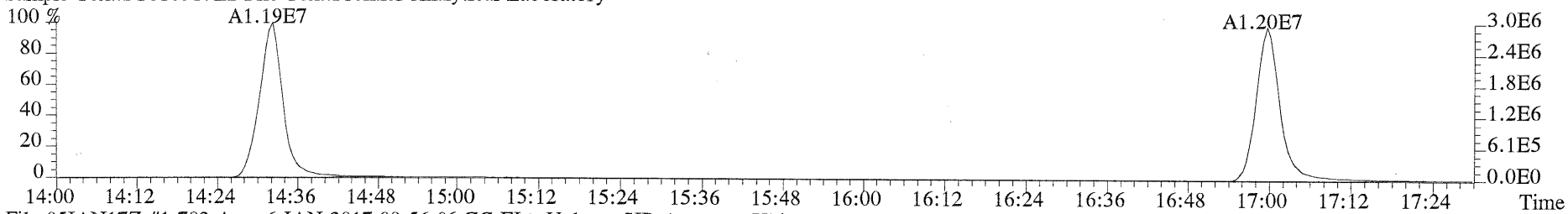
File:05JAN17Z #1-783 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



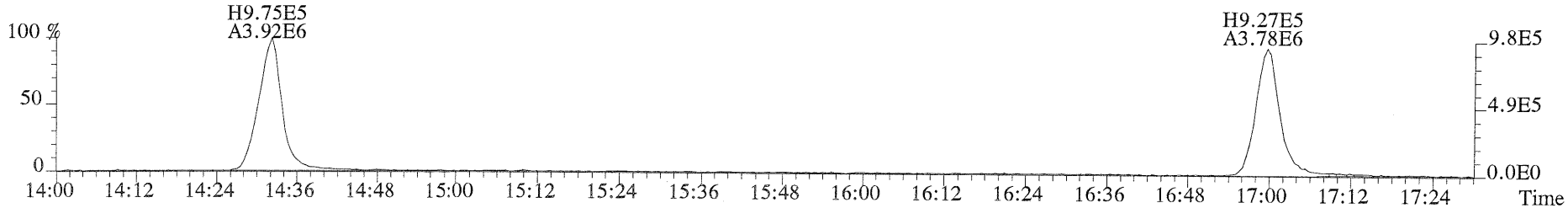
File:05JAN17Z #1-783 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



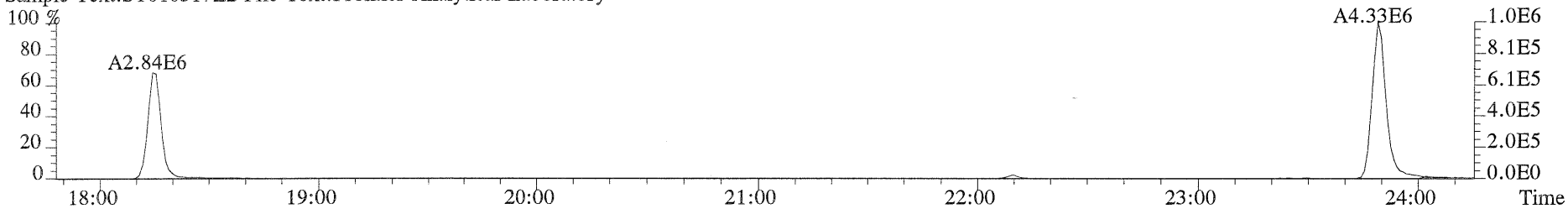
File:05JAN17Z #1-783 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



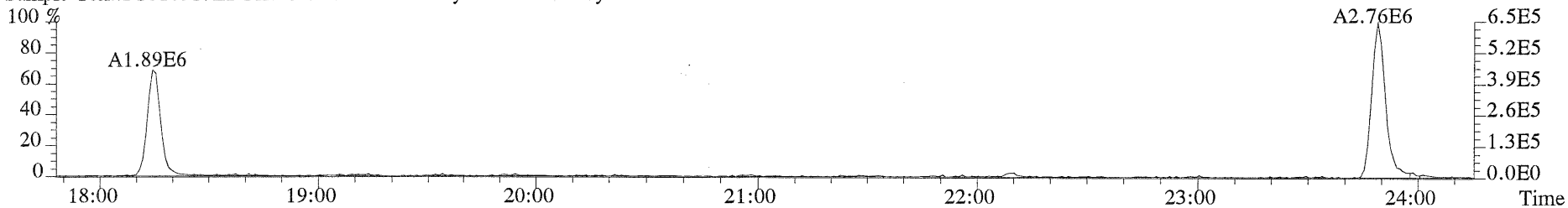
File:05JAN17Z #1-783 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



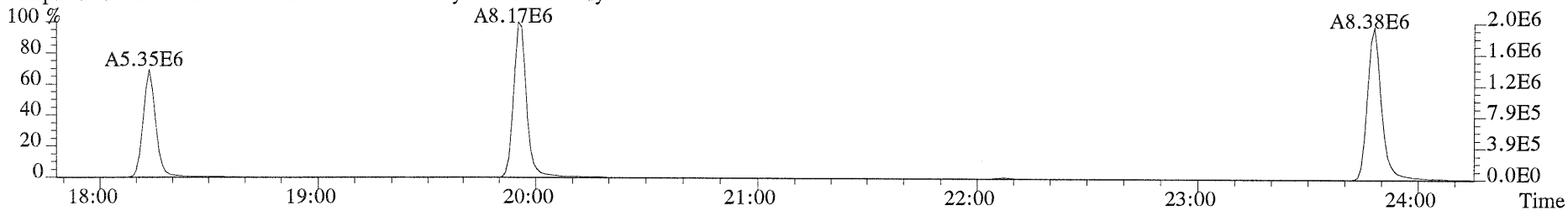
File:05JAN17Z #1-509 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



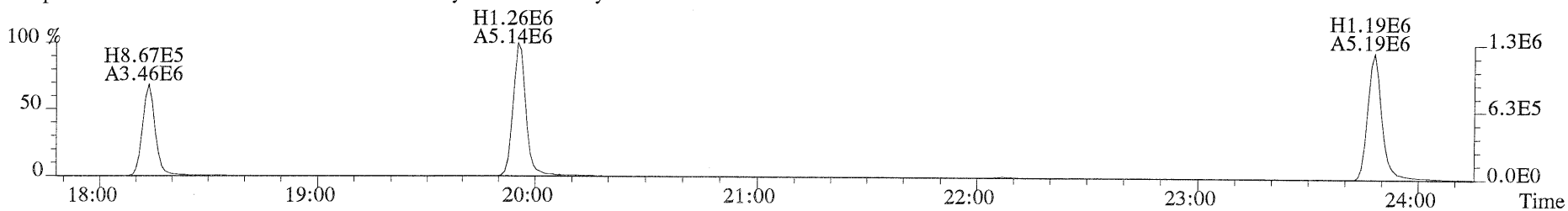
File:05JAN17Z #1-509 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



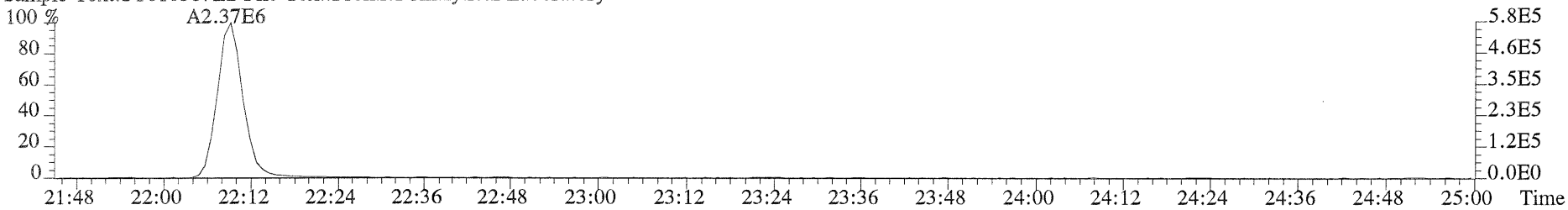
File:05JAN17Z #1-509 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



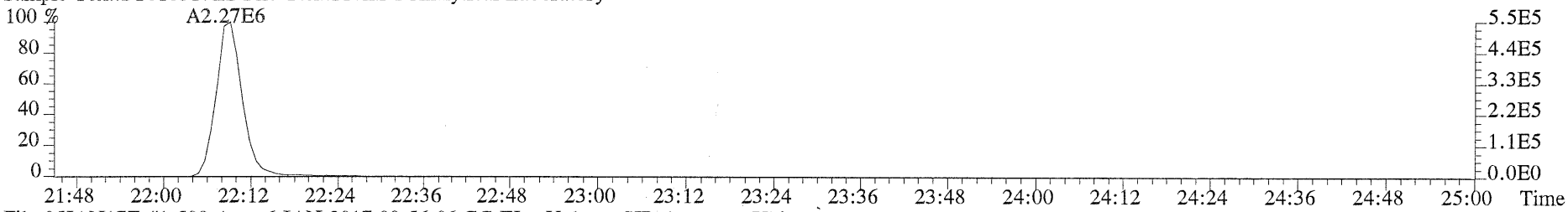
File:05JAN17Z #1-509 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



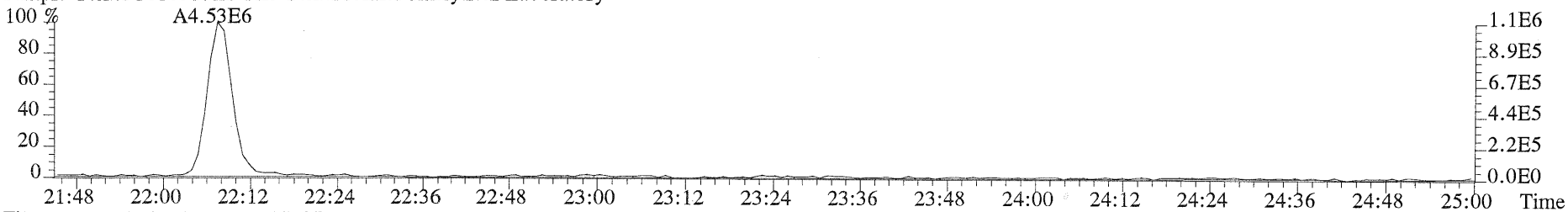
File:05JAN17Z #1-509 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



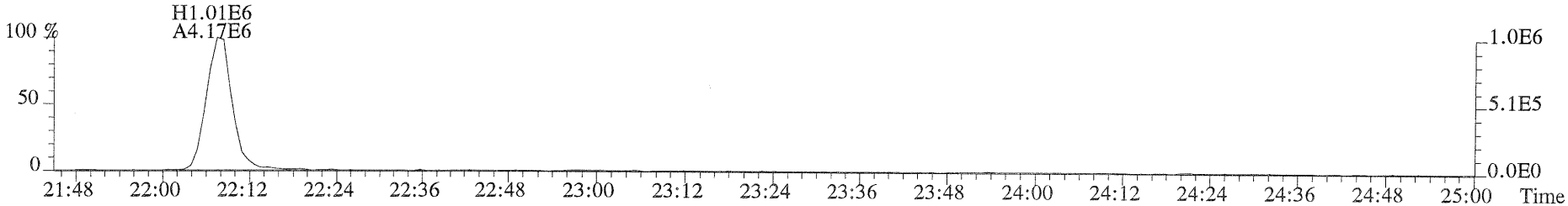
File:05JAN17Z #1-509 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



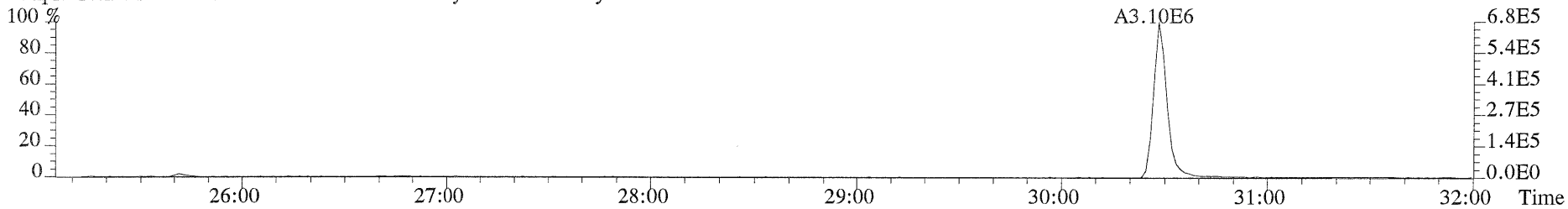
File:05JAN17Z #1-509 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



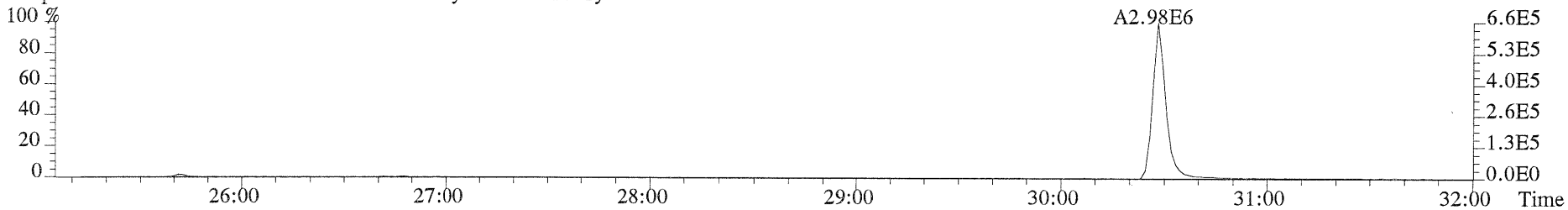
File:05JAN17Z #1-509 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-407 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-407 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



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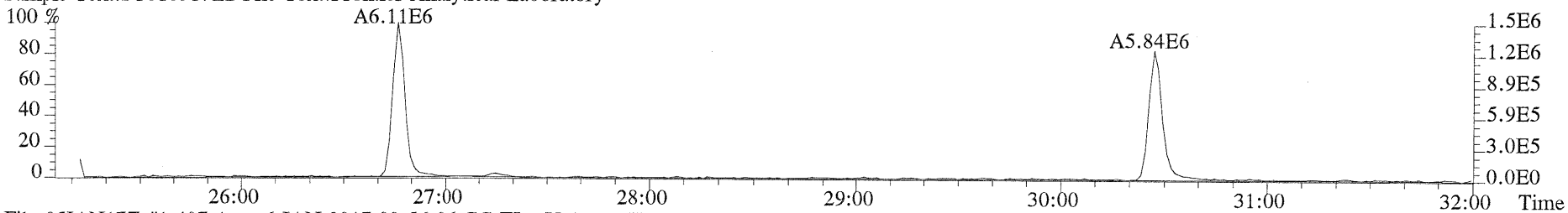
268.0016 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



File:05JAN17Z #1-407 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
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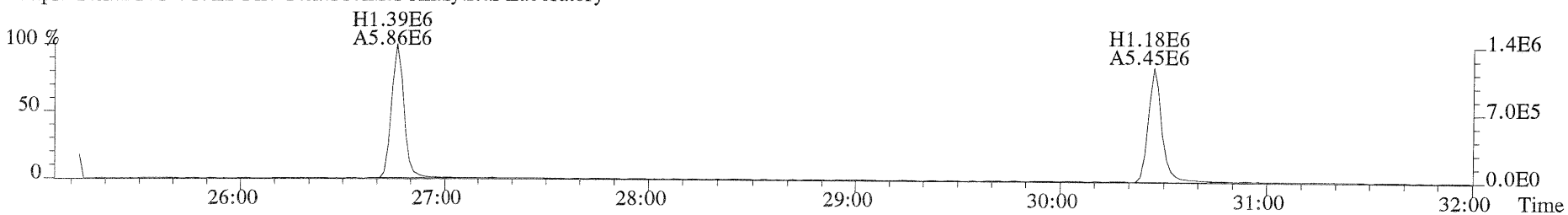
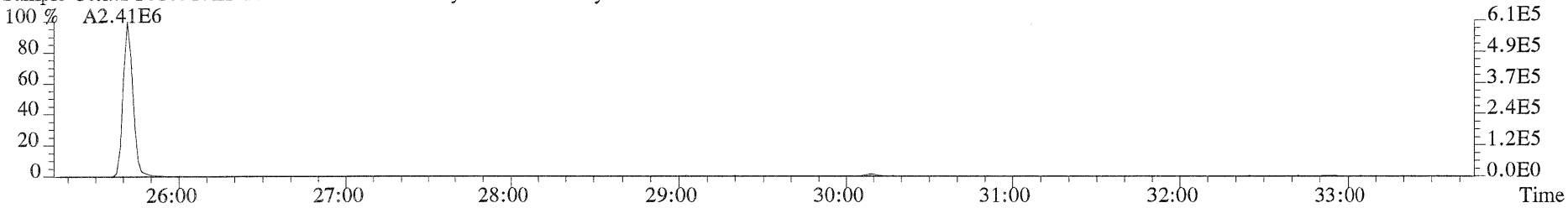
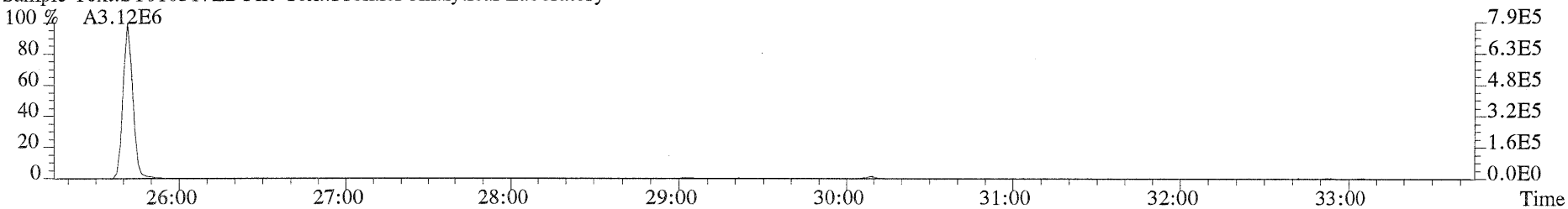
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



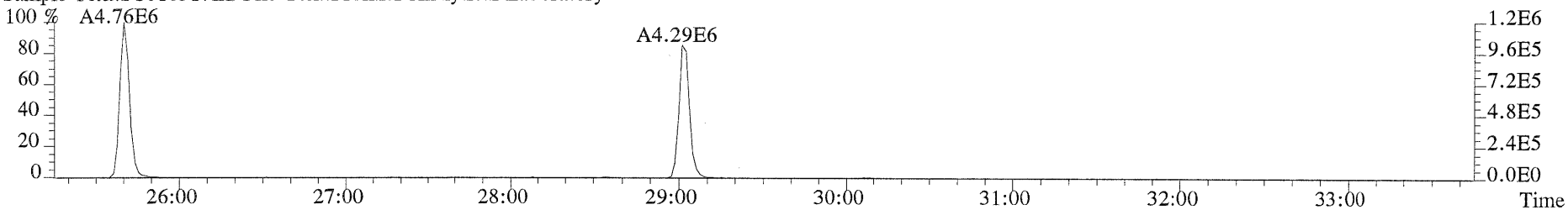
File:05JAN17Z #1-407 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



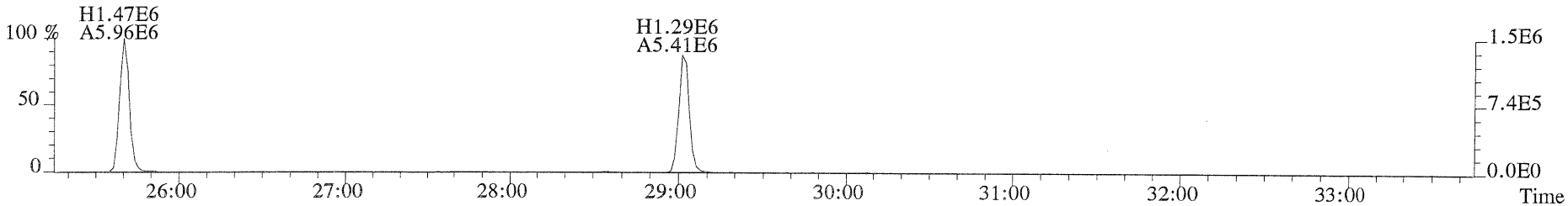
File:05JAN17Z #1-407 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



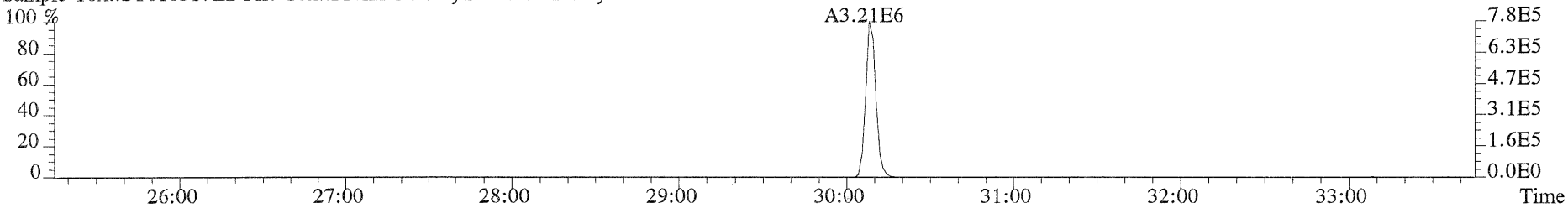
File:05JAN17Z #1-407 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



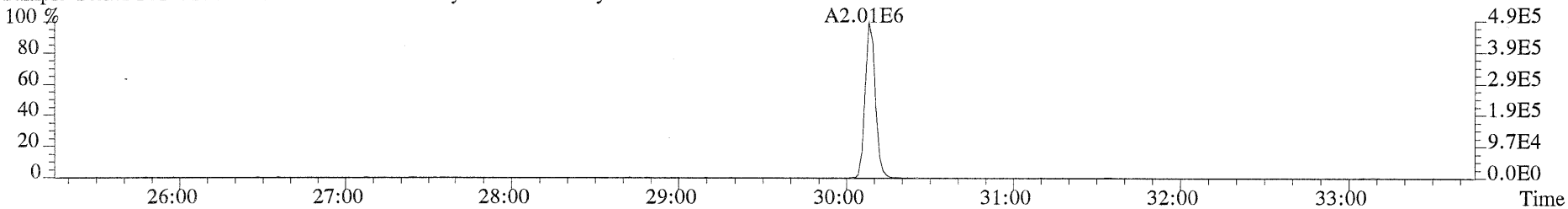
File:05JAN17Z #1-407 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



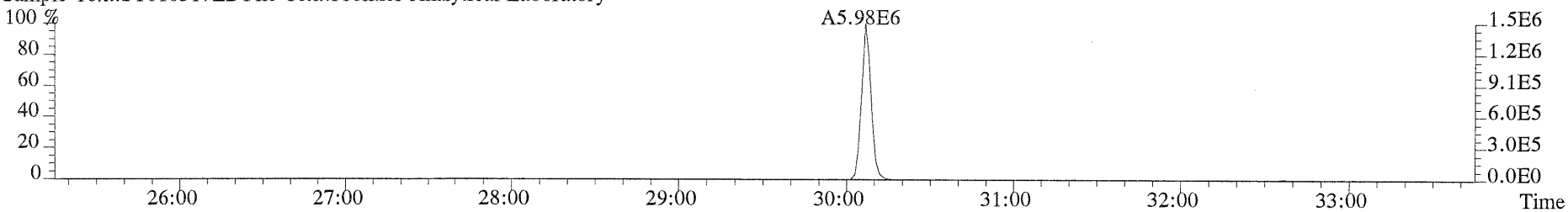
File:05JAN17Z #1-407 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



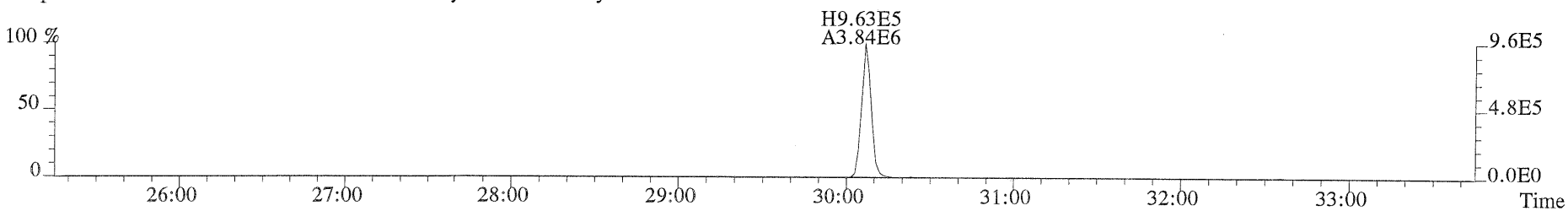
File:05JAN17Z #1-407 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



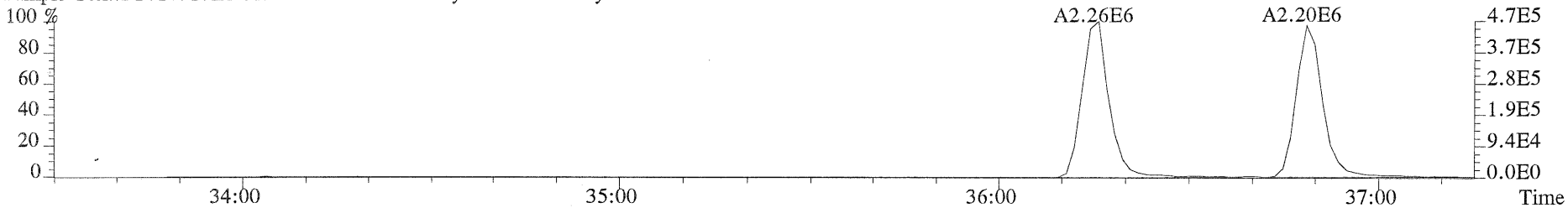
File:05JAN17Z #1-407 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



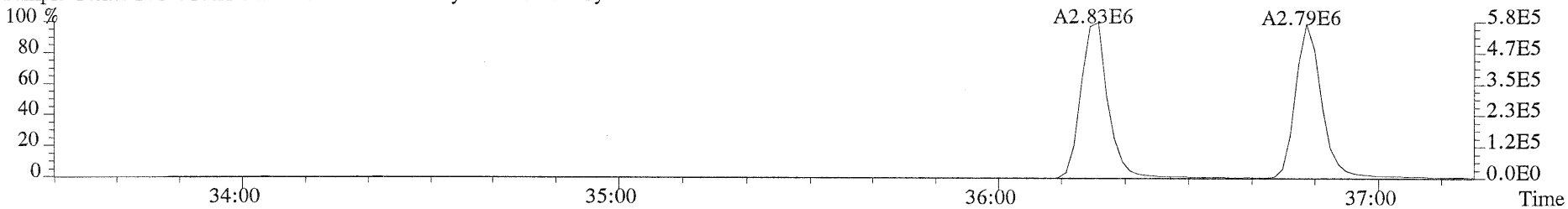
File:05JAN17Z #1-407 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



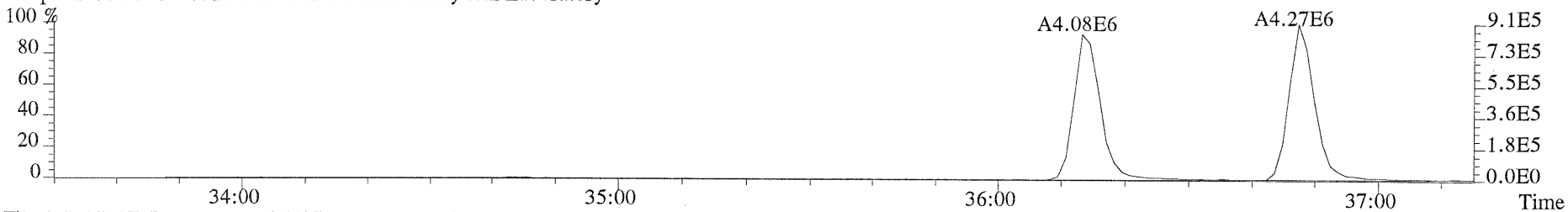
File:05JAN17Z #1-181 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



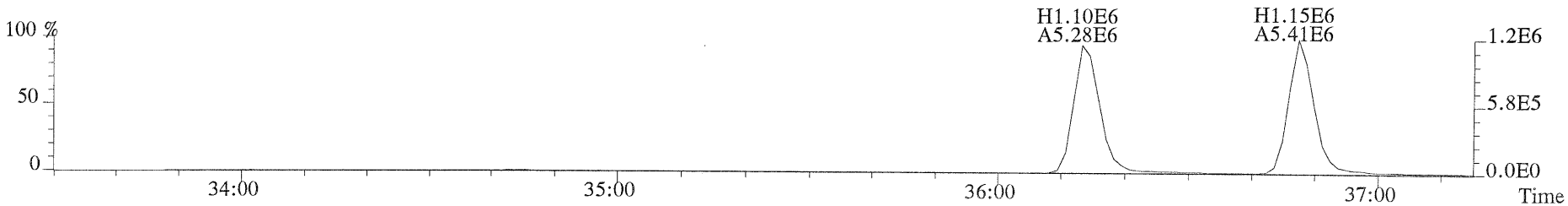
File:05JAN17Z #1-181 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



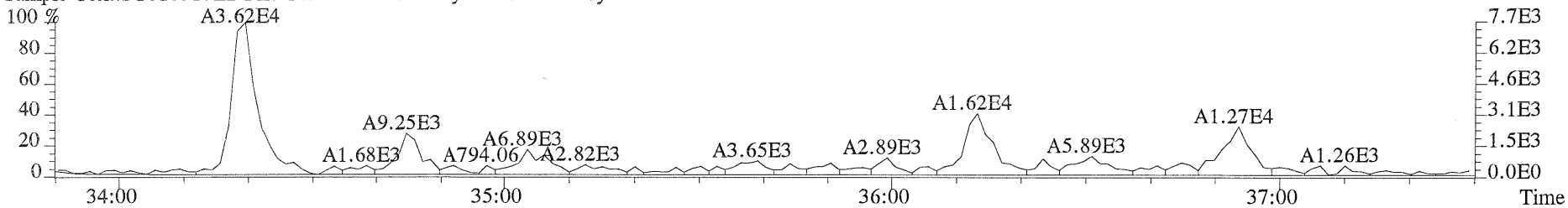
File:05JAN17Z #1-181 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



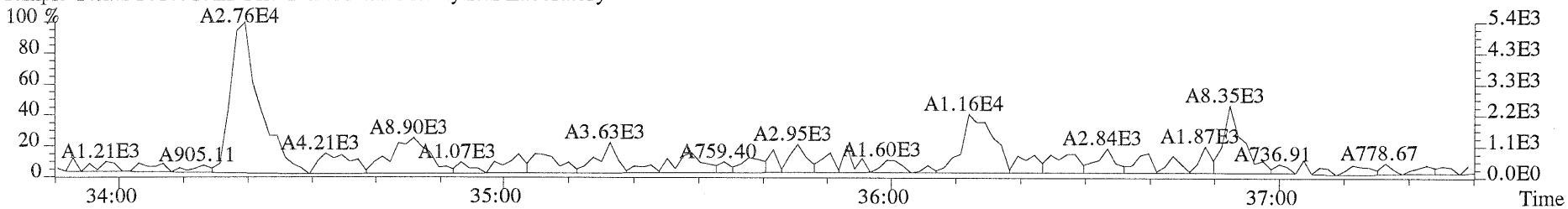
File:05JAN17Z #1-181 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



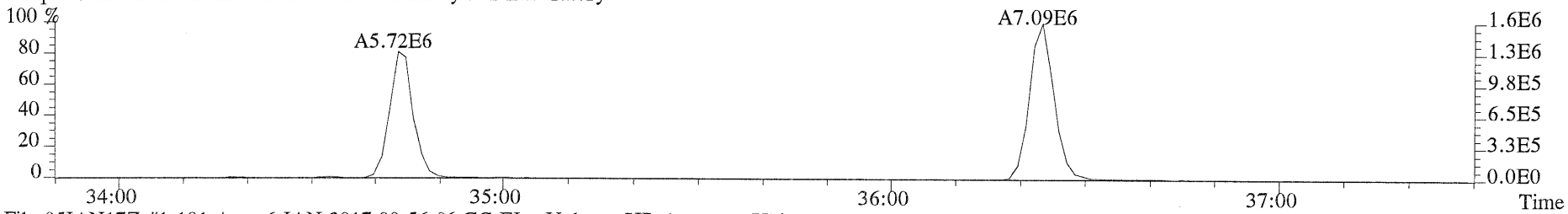
File:05JAN17Z #1-181 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



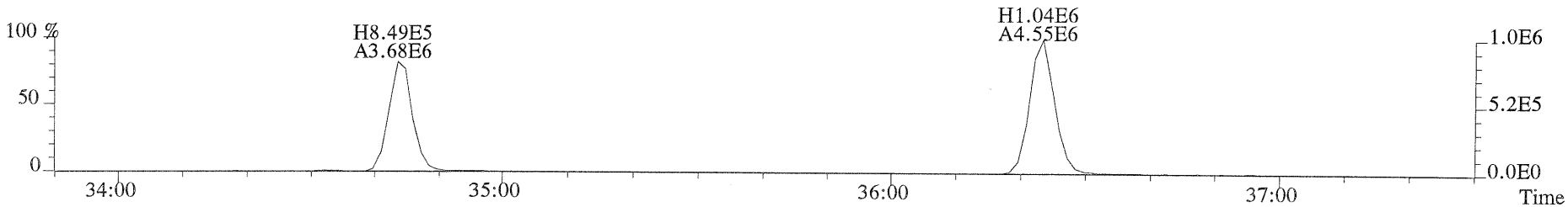
File:05JAN17Z #1-181 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



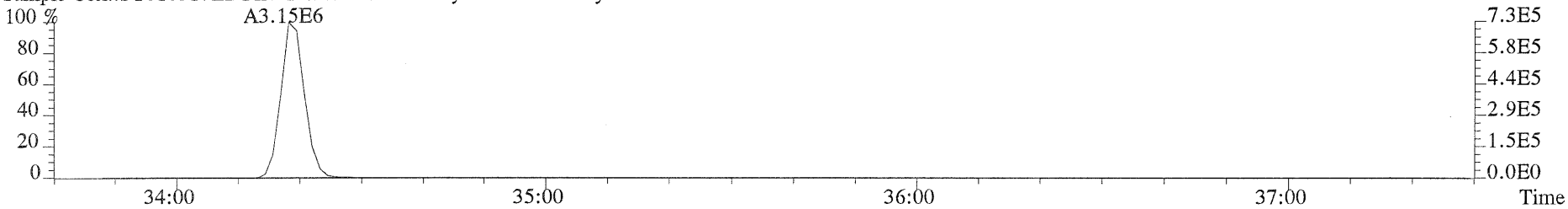
File:05JAN17Z #1-181 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



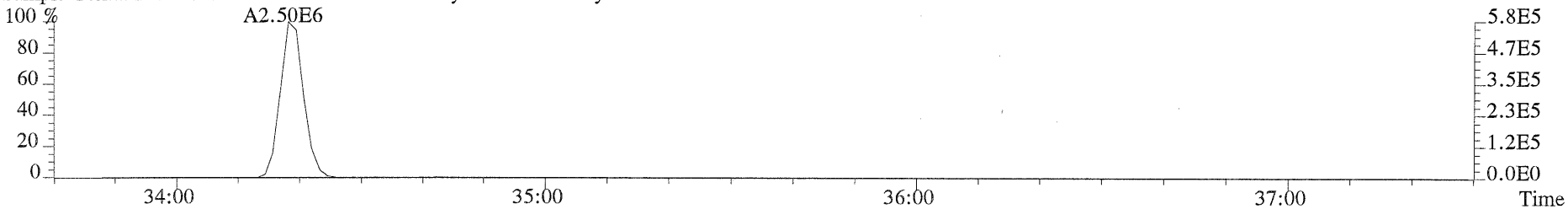
File:05JAN17Z #1-181 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



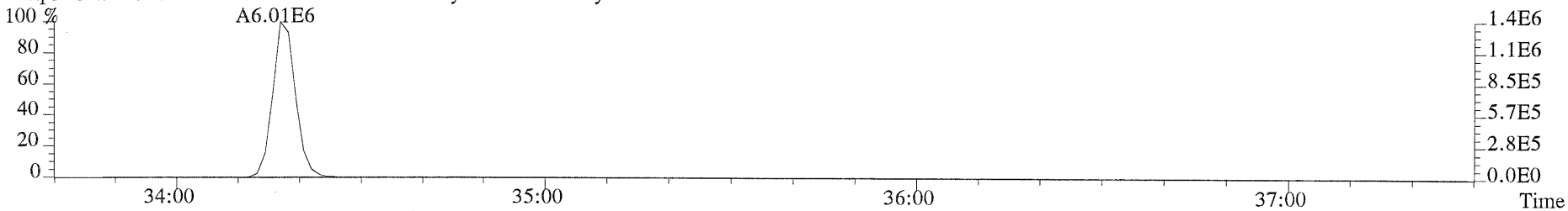
File:05JAN17Z #1-181 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



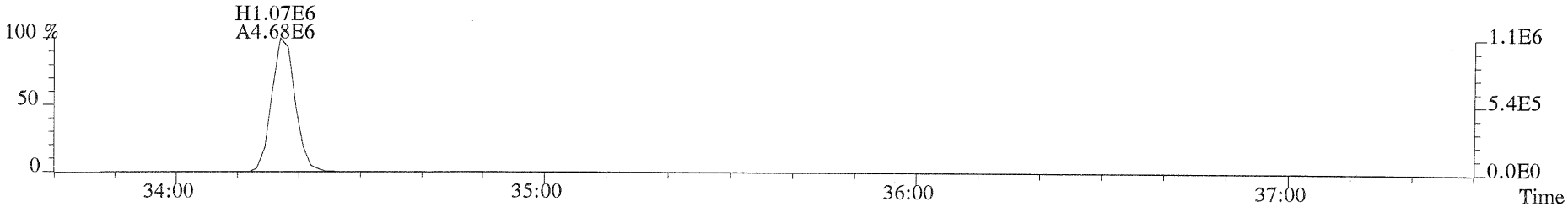
File:05JAN17Z #1-181 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



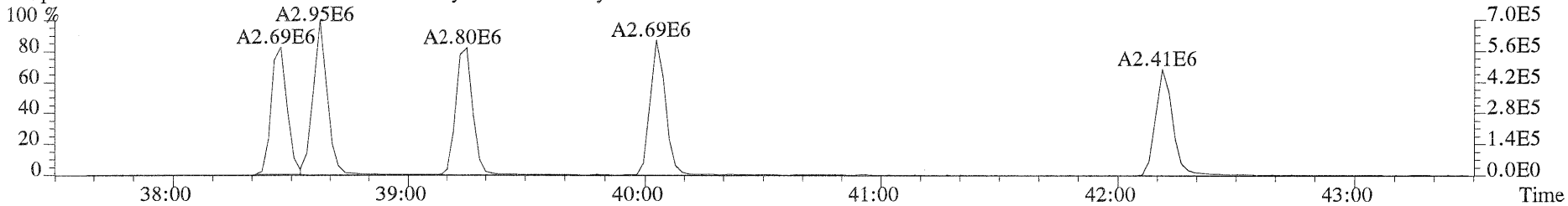
File:05JAN17Z #1-181 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



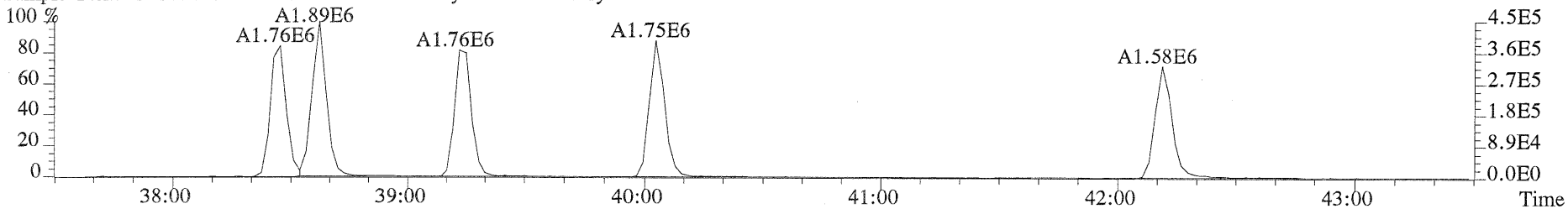
File:05JAN17Z #1-181 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



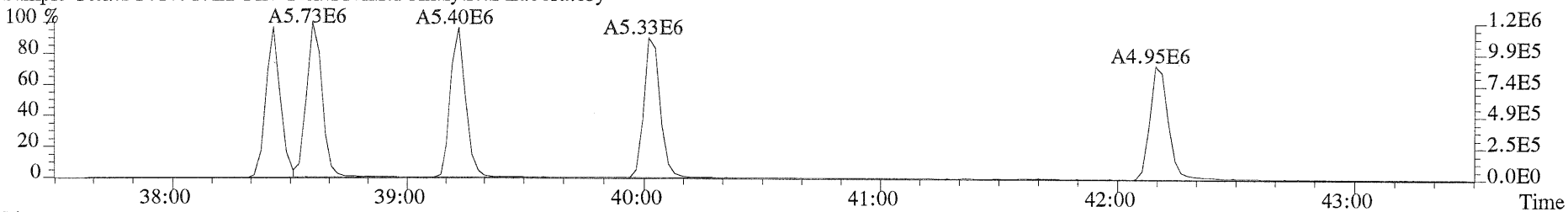
File:05JAN17Z #1-413 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



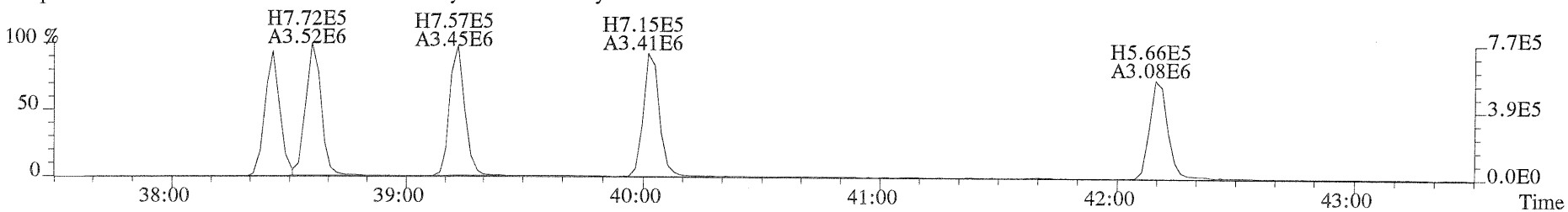
File:05JAN17Z #1-413 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



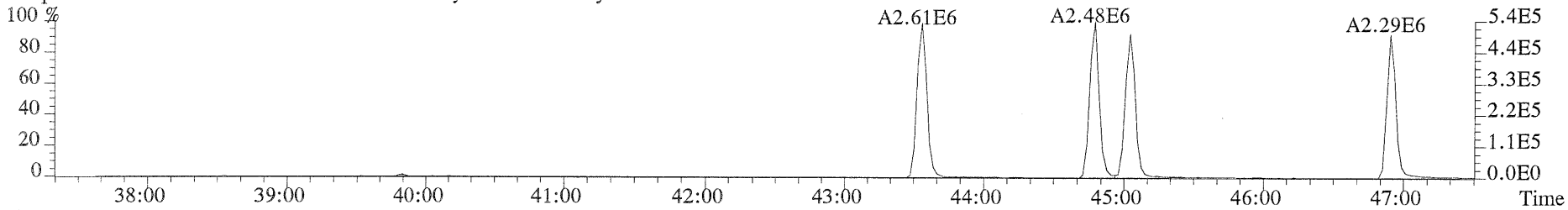
File:05JAN17Z #1-413 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



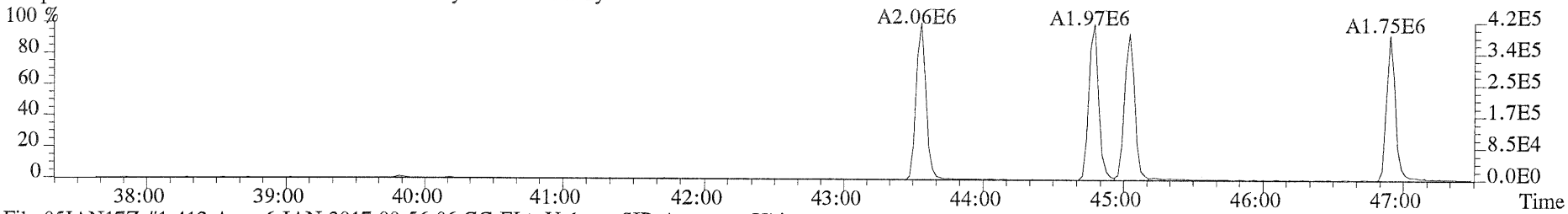
File:05JAN17Z #1-413 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



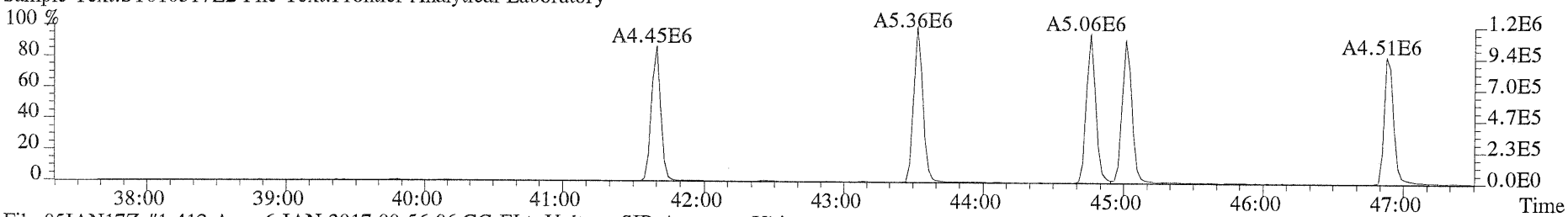
File:05JAN17Z #1-413 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



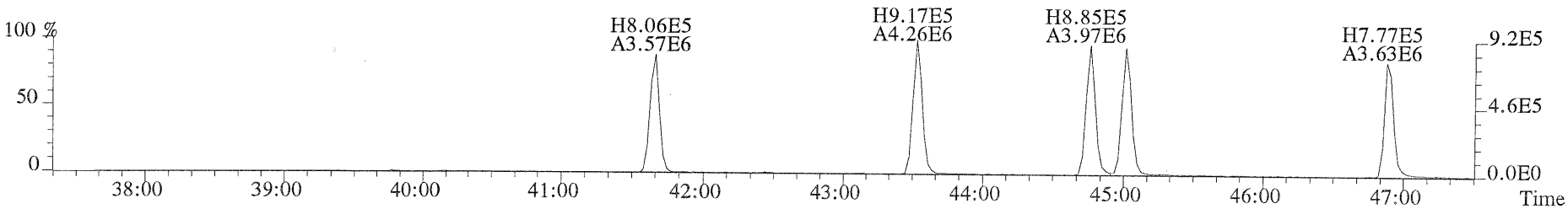
File:05JAN17Z #1-413 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



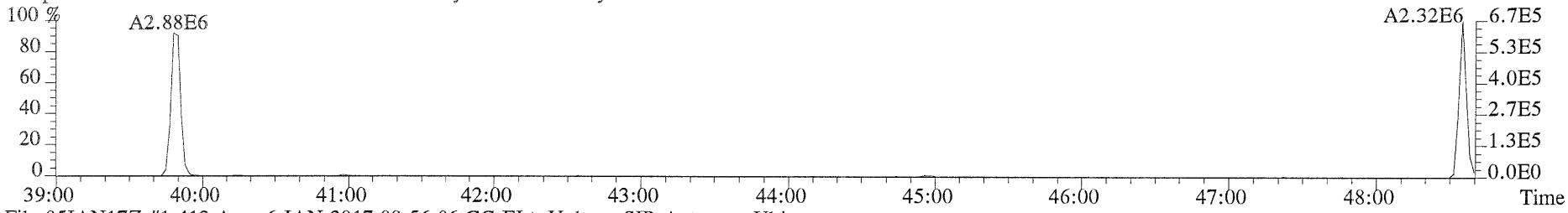
File:05JAN17Z #1-413 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



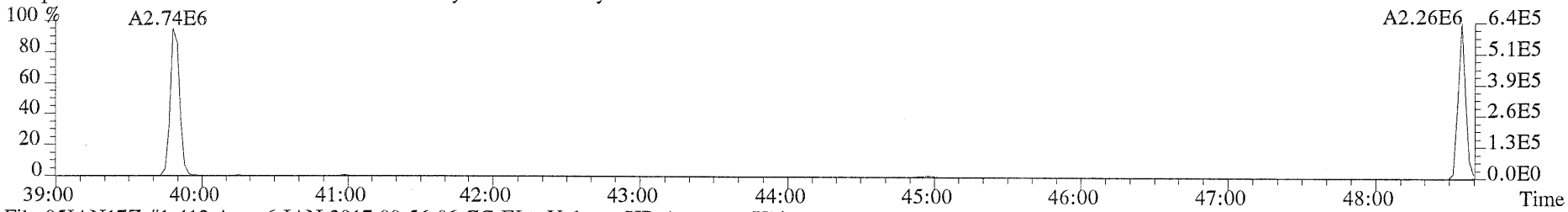
File:05JAN17Z #1-413 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



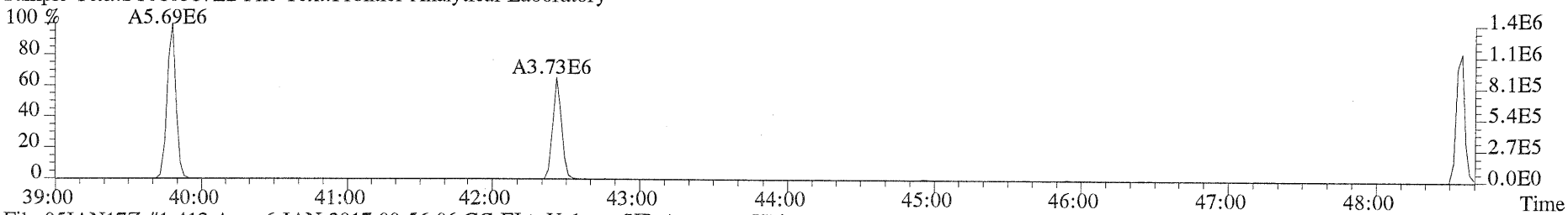
File:05JAN17Z #1-413 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



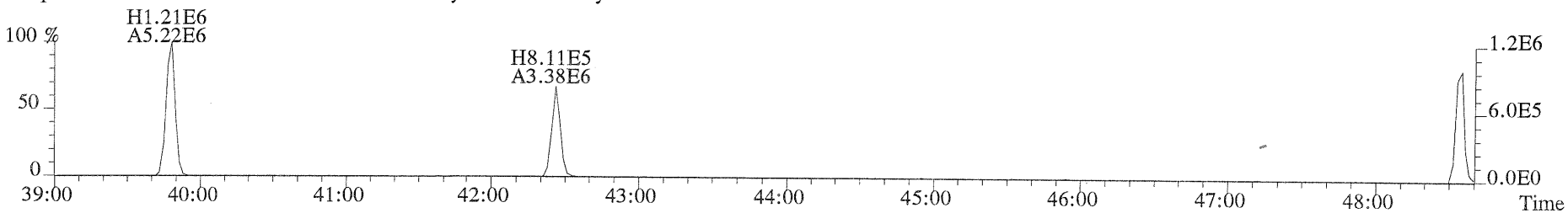
File:05JAN17Z #1-413 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



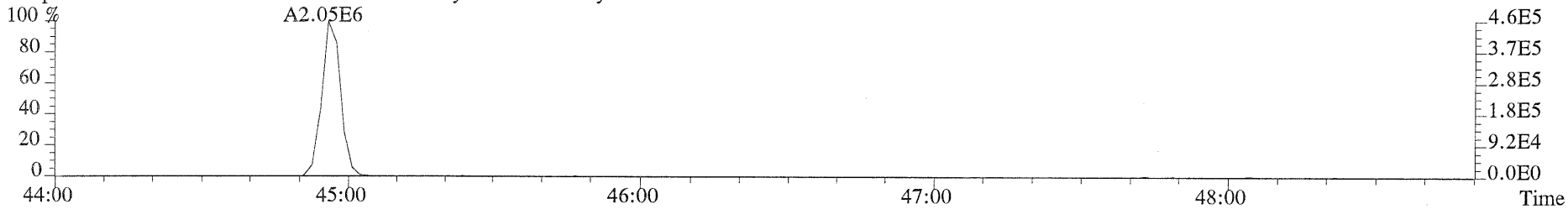
File:05JAN17Z #1-413 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



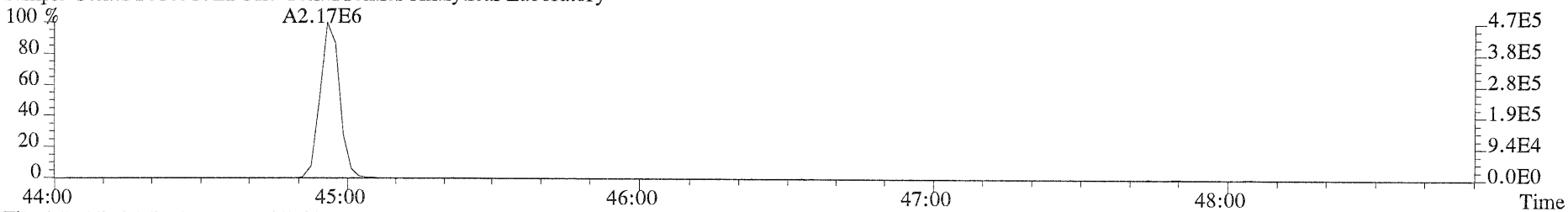
File:05JAN17Z #1-413 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



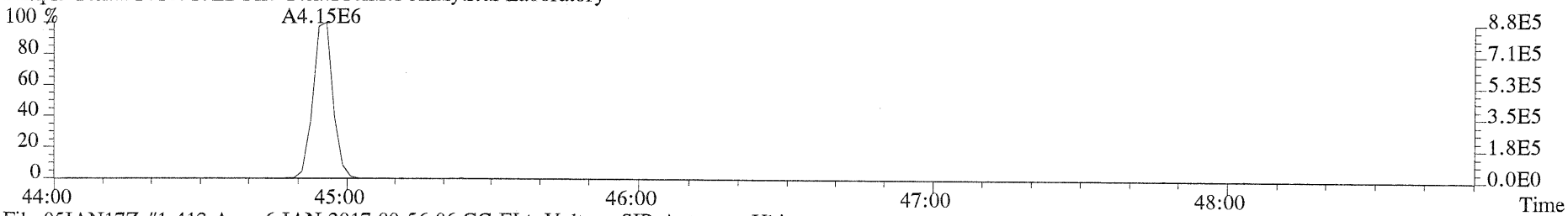
File:05JAN17Z #1-413 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



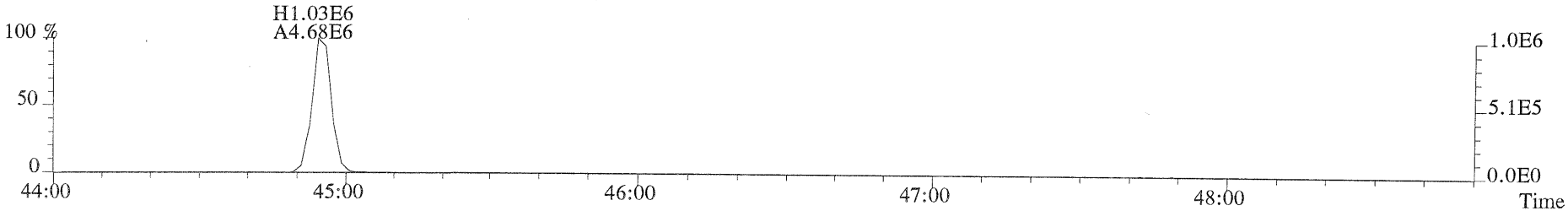
File:05JAN17Z #1-413 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



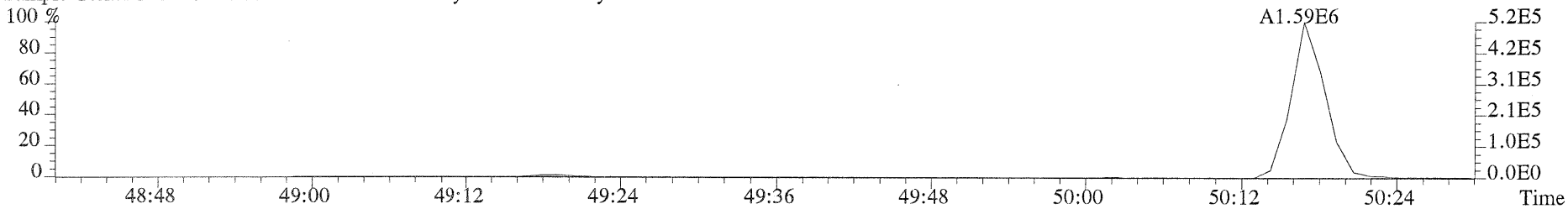
File:05JAN17Z #1-413 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



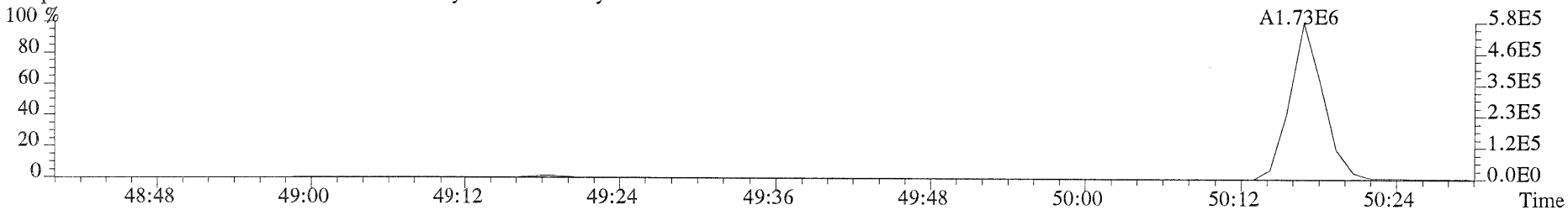
File:05JAN17Z #1-413 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



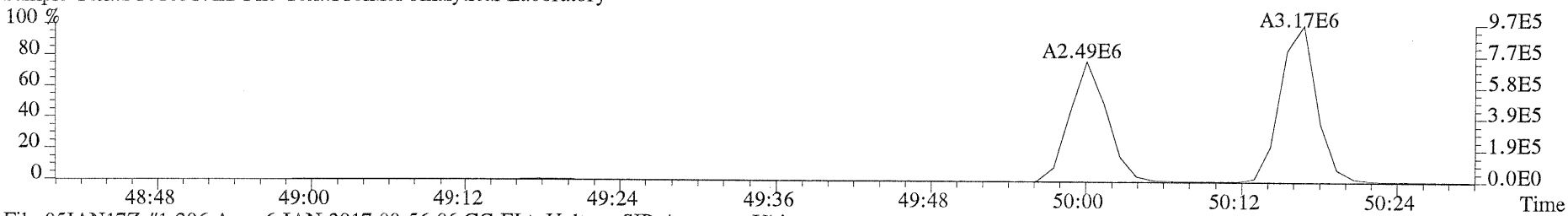
File:05JAN17Z #1-306 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



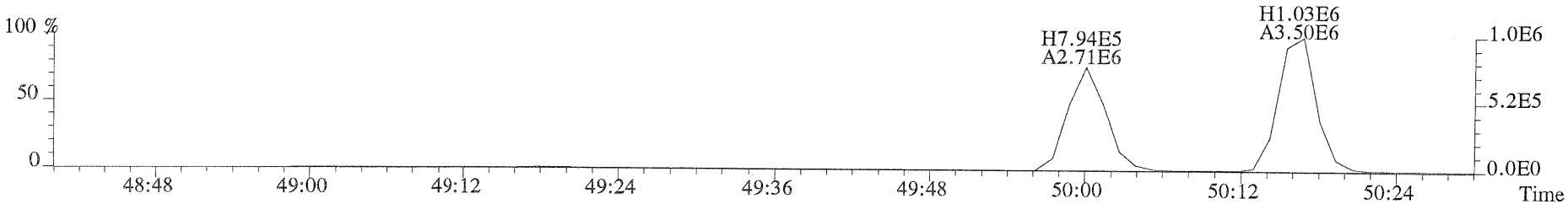
File:05JAN17Z #1-306 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



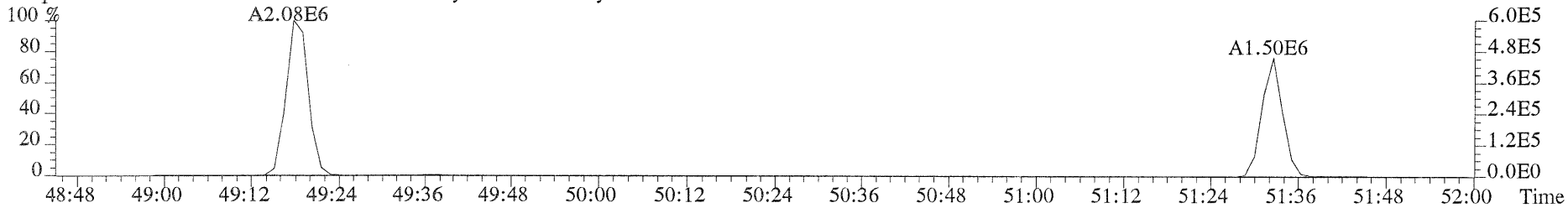
File:05JAN17Z #1-306 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



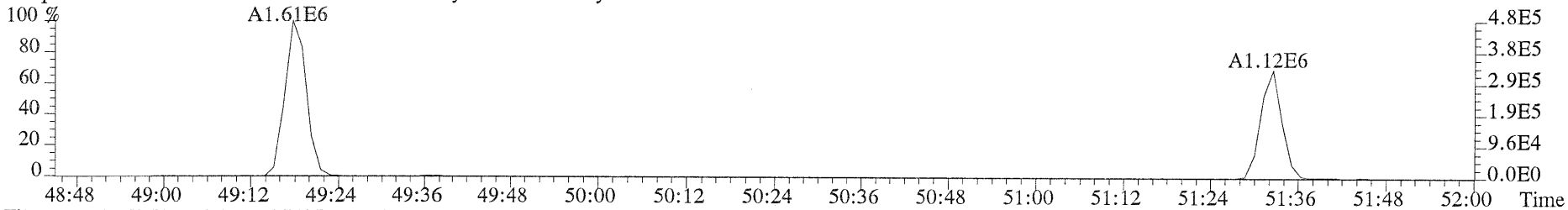
File:05JAN17Z #1-306 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



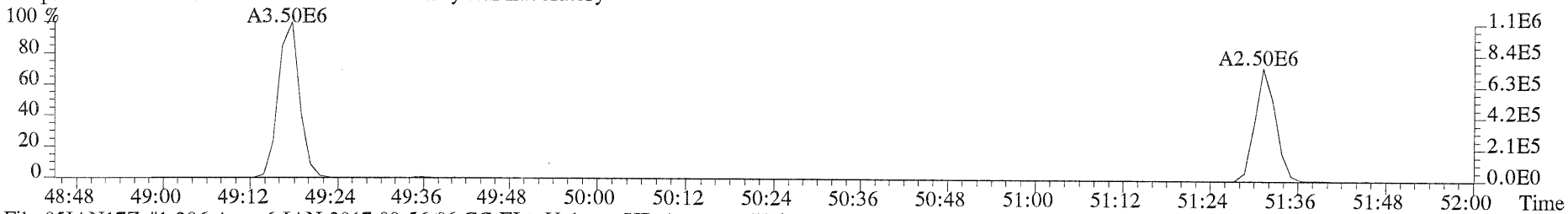
File:05JAN17Z #1-306 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



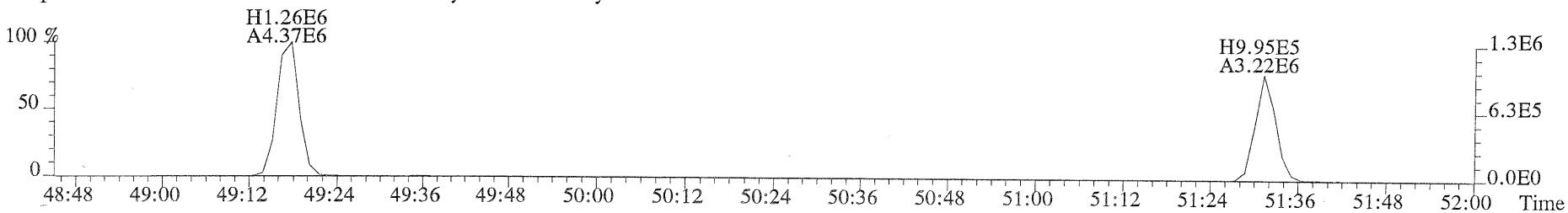
File:05JAN17Z #1-306 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



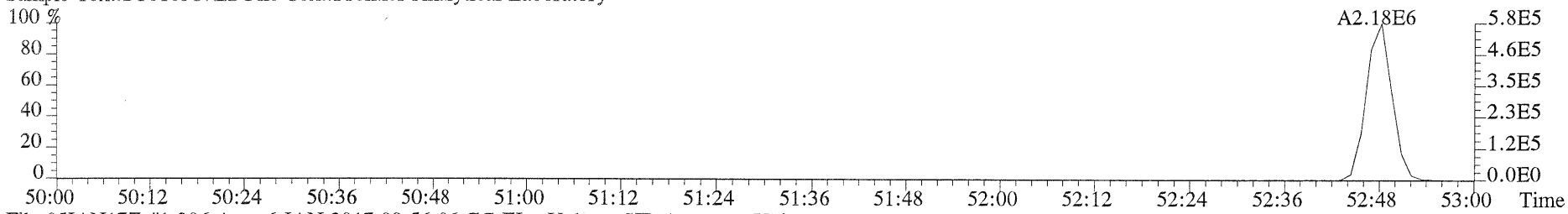
File:05JAN17Z #1-306 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



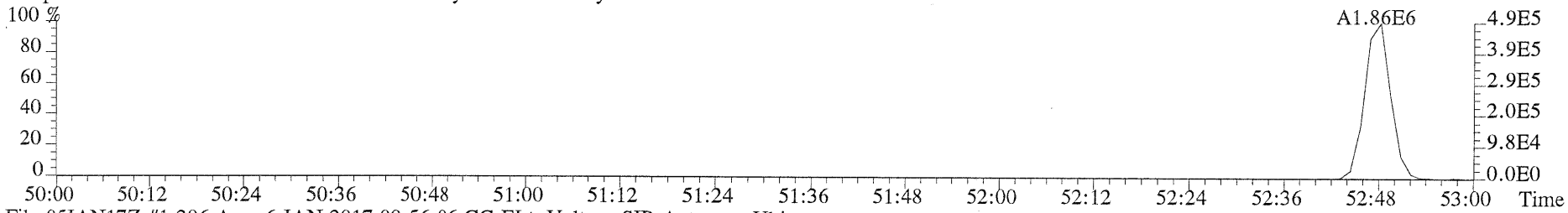
File:05JAN17Z #1-306 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



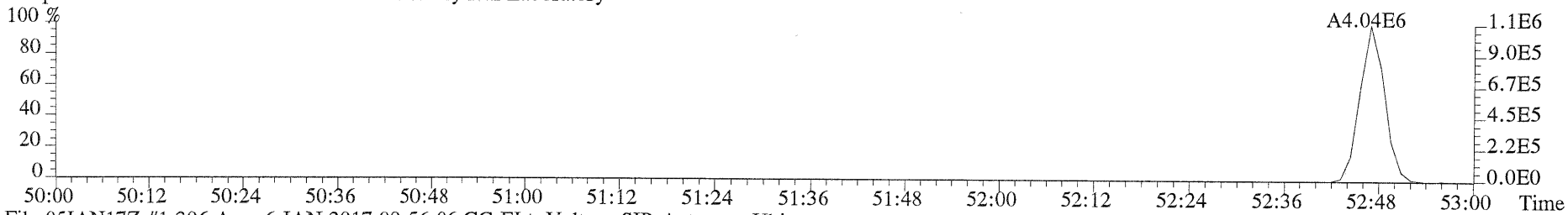
File:05JAN17Z #1-306 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



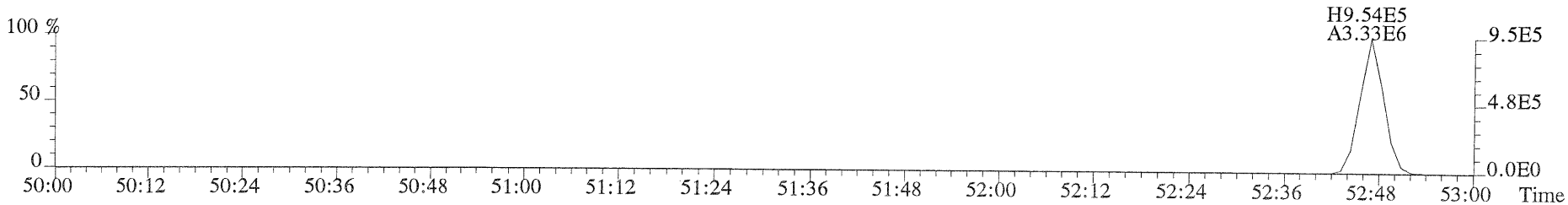
File:05JAN17Z #1-306 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory



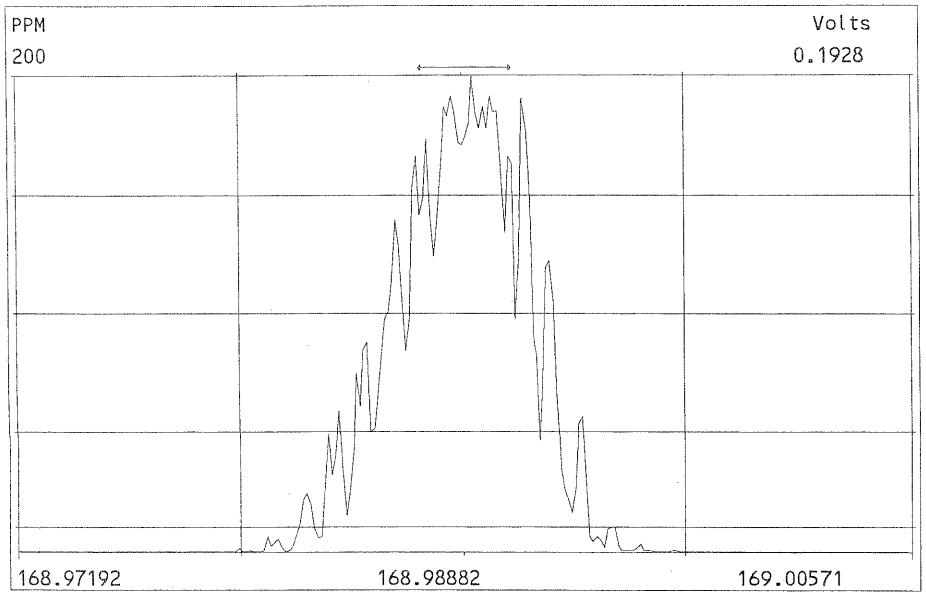
File:05JAN17Z #1-306 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory

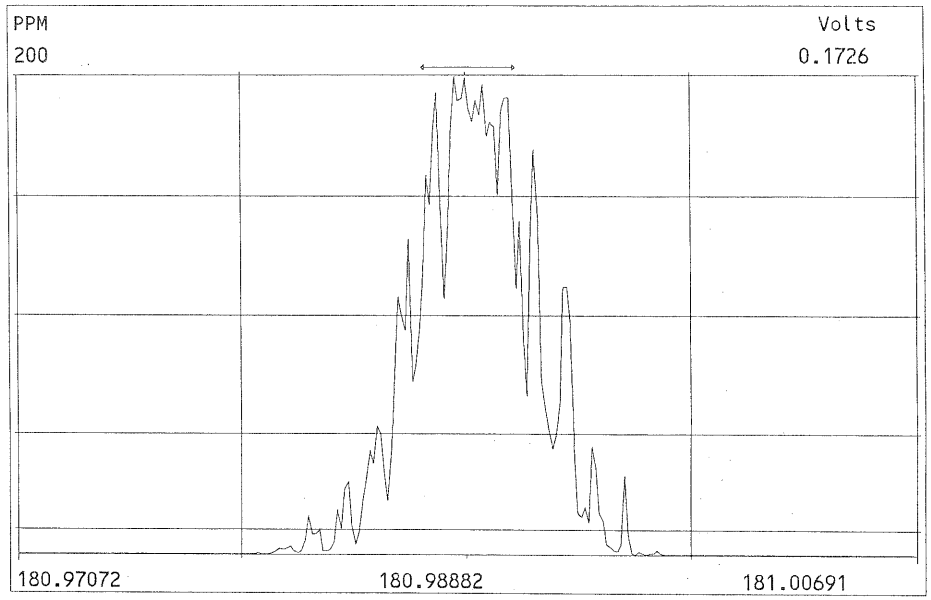


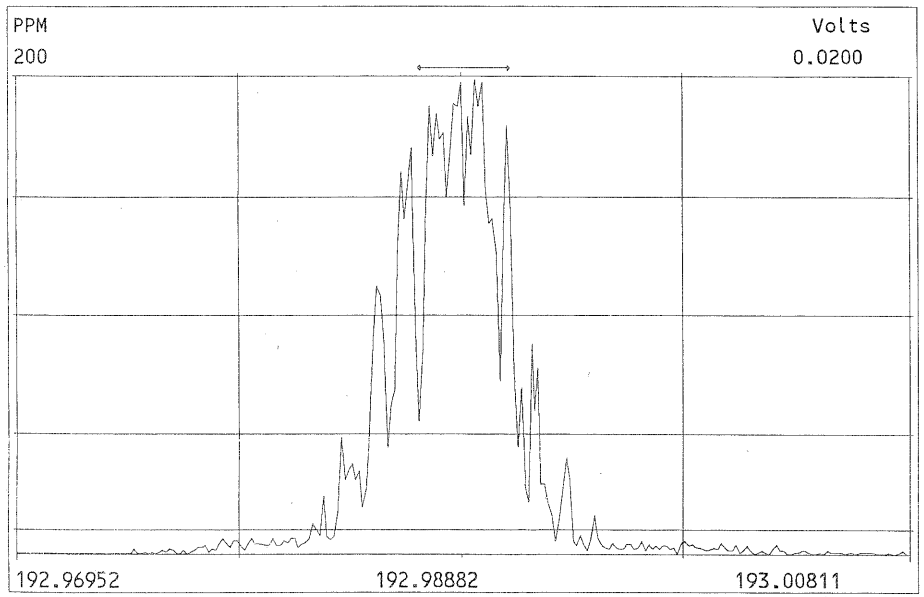
File:05JAN17Z #1-306 Acq: 6-JAN-2017 00:56:06 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST010517Z2 File Text:Frontier Analytical Laboratory

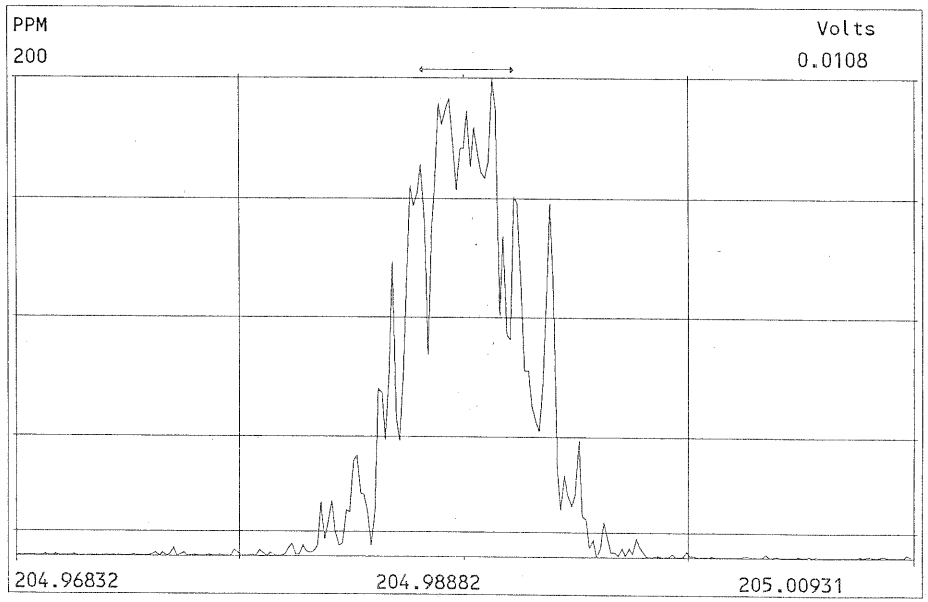


Peak Locate Examination: 6-JAN-2017:01:55 File:05JAN17Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK 82

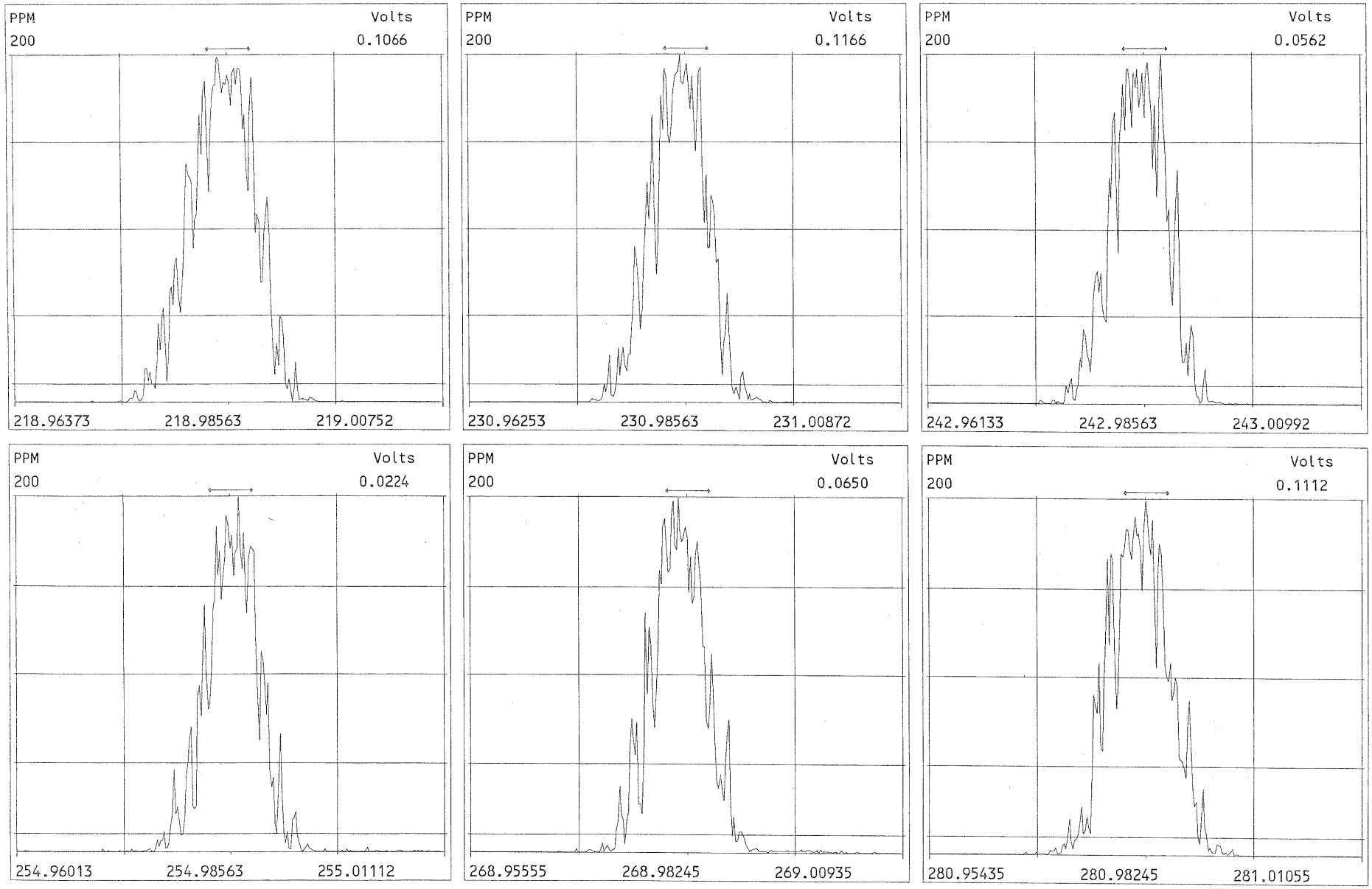




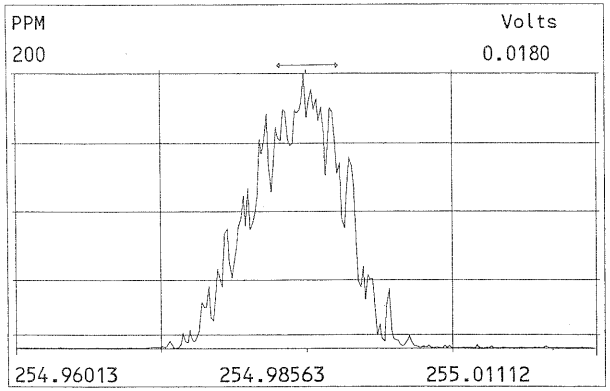


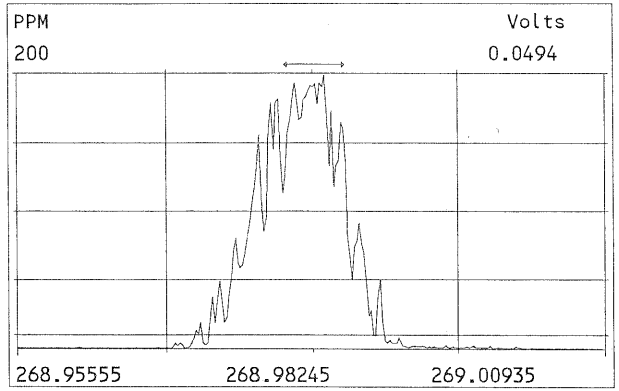


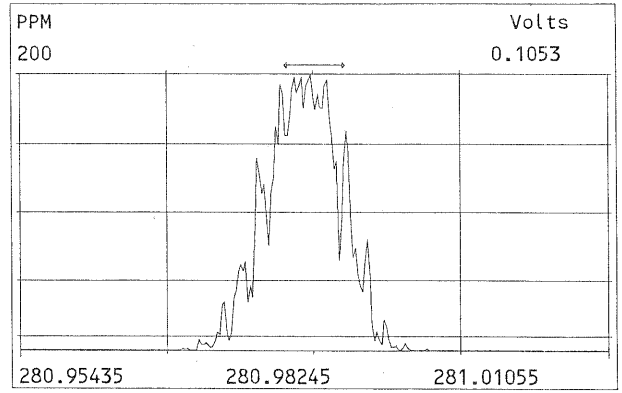
Peak Locate Examination: 6-JAN-2017:01:56 File:05JAN17Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK 82

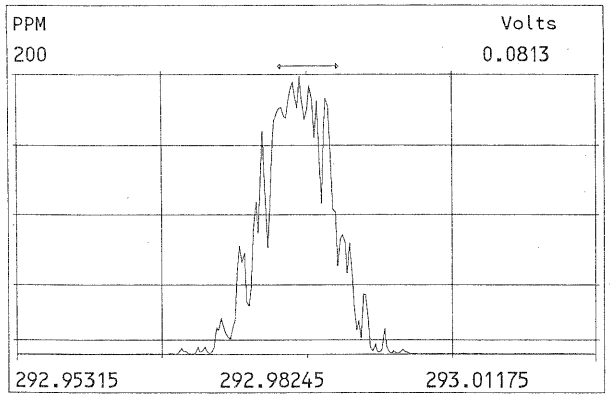


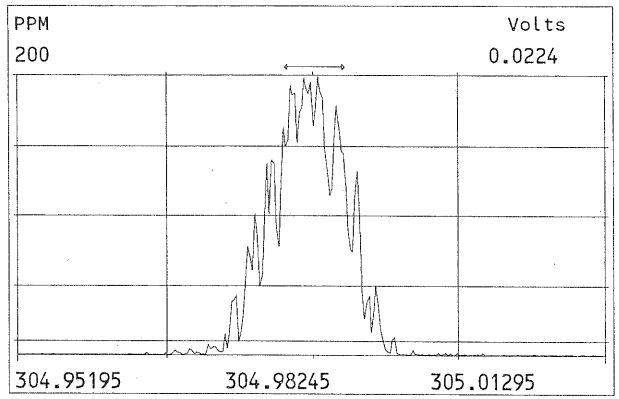
Peak Locate Examination: 6-JAN-2017:01:56 File:05JAN17Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK 8J

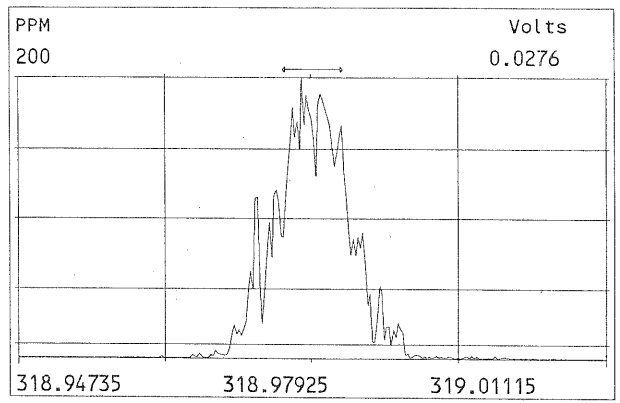


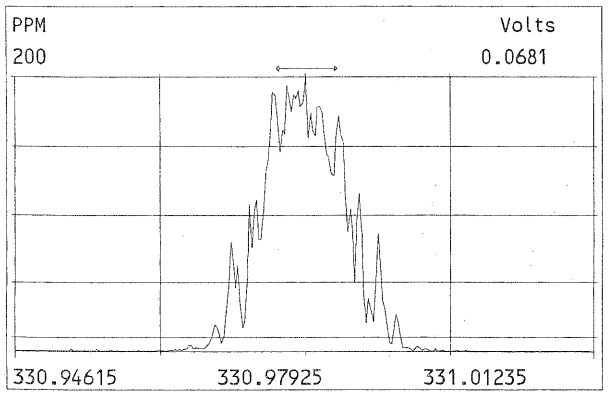


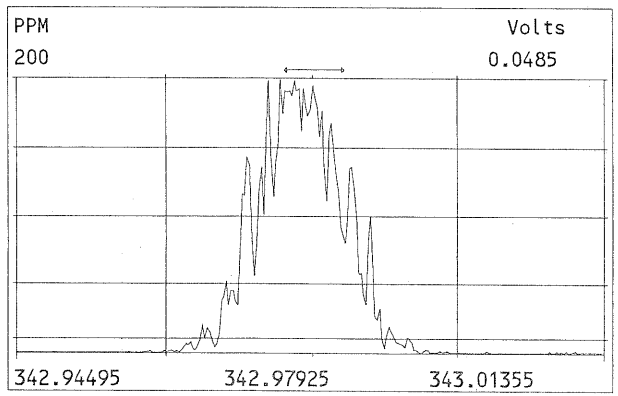




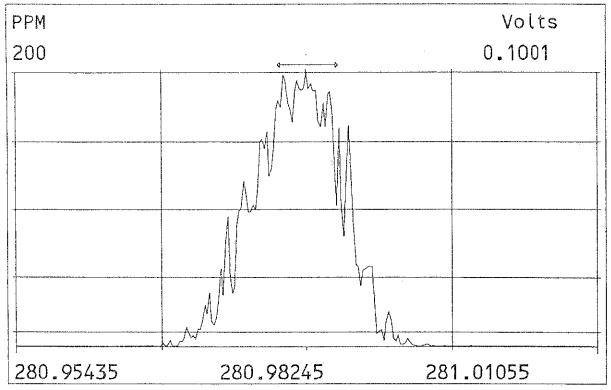


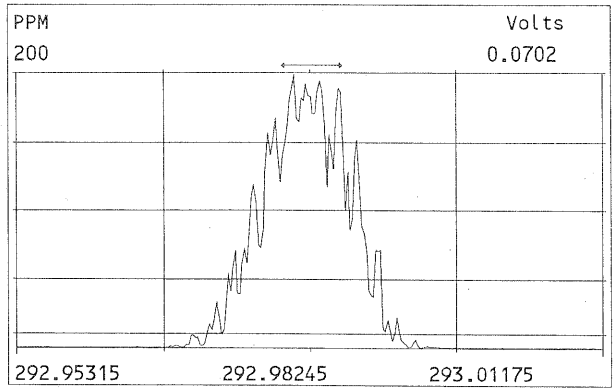


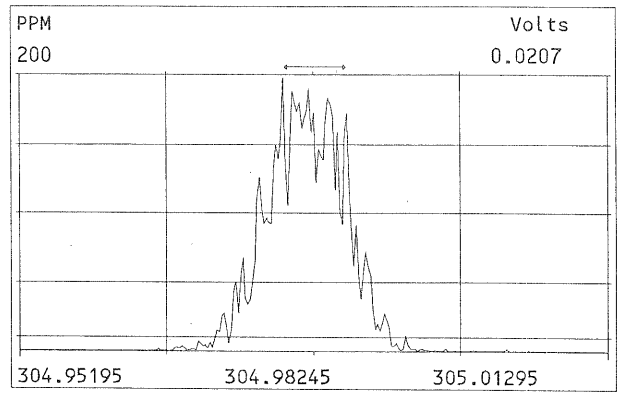


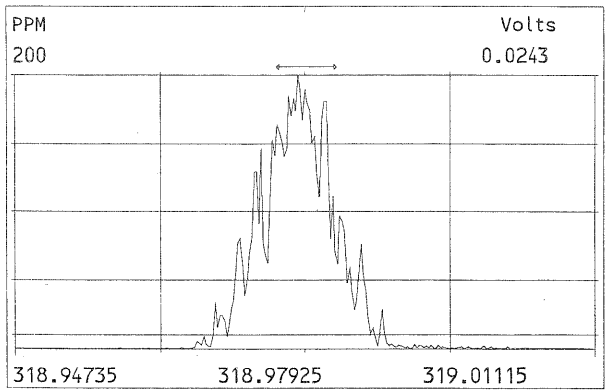


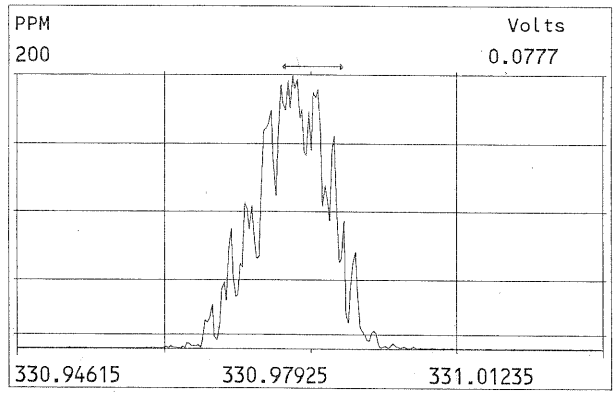
Peak Locate Examination: 6-JAN-2017:01:56 File:05JAN17Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK 82

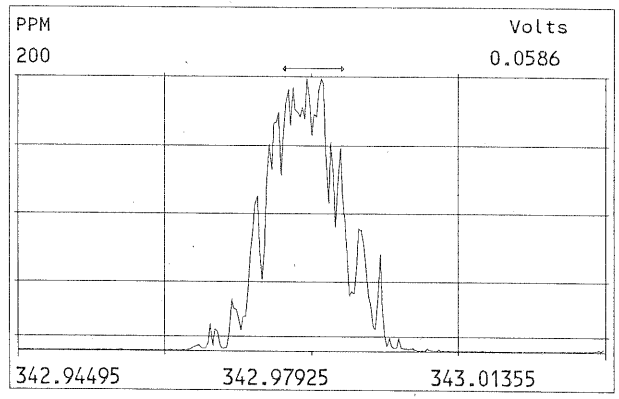


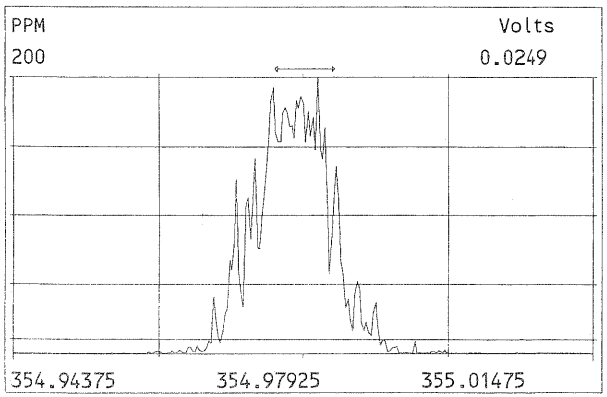


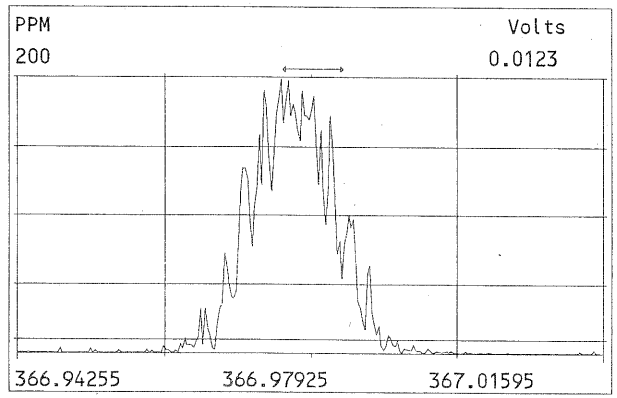


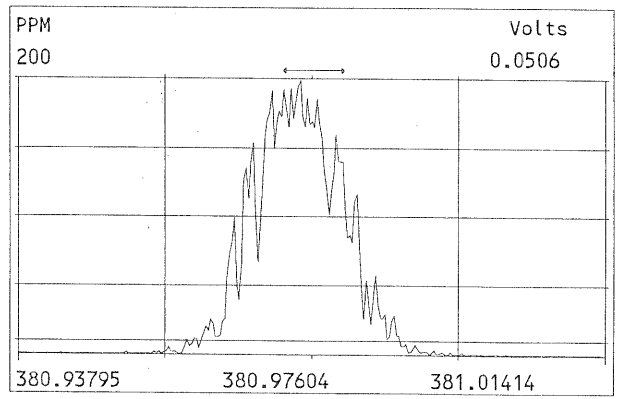




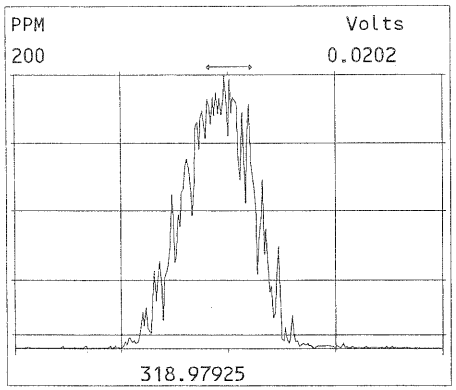


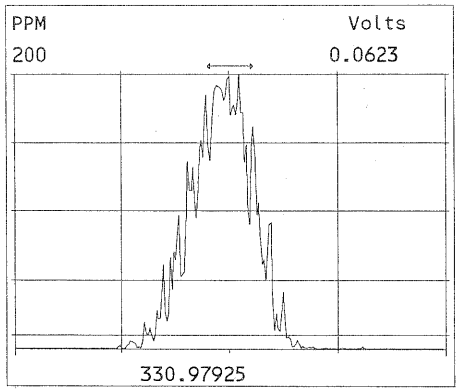


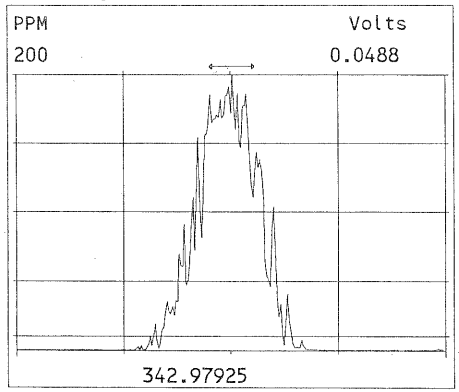


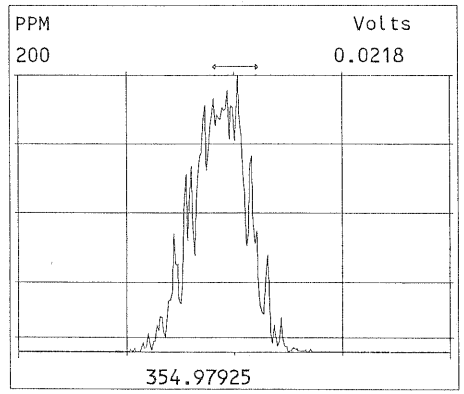


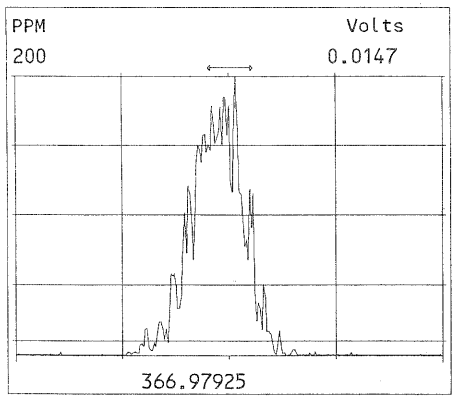
Peak Locate Examination: 6-JAN-2017:01:57 File:05JAN17Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK 8J

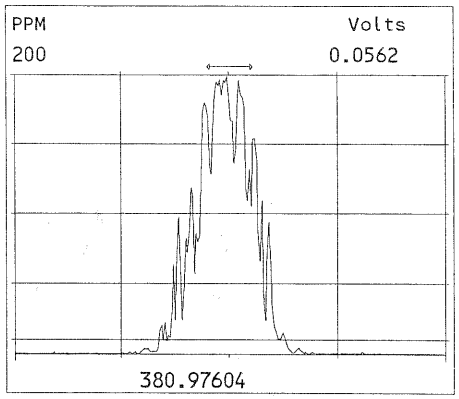


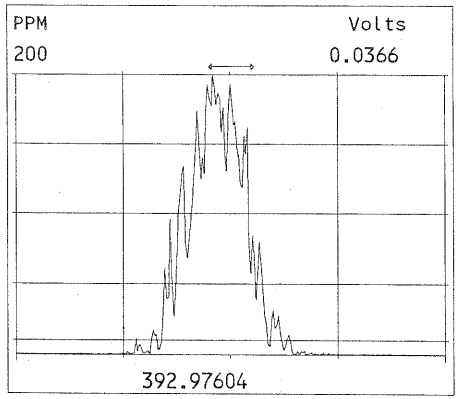


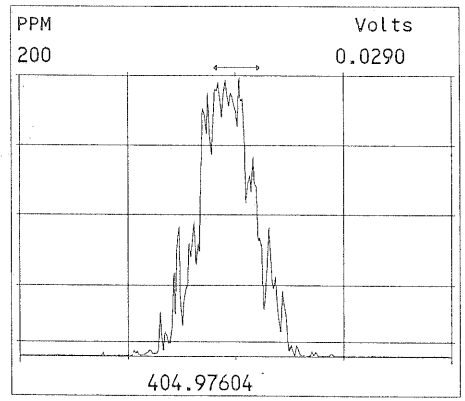


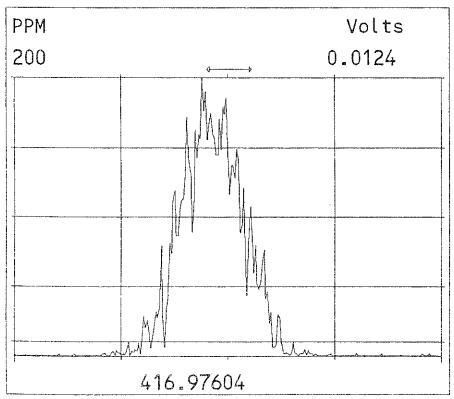


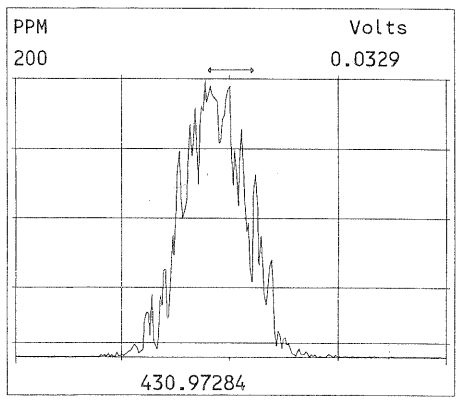


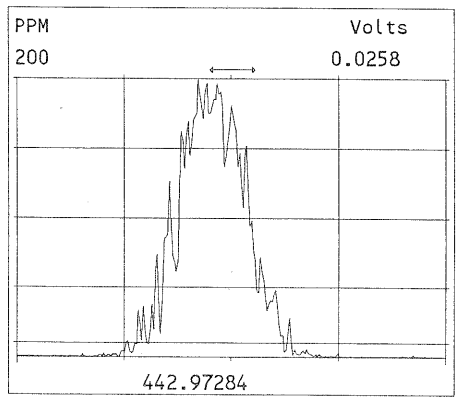












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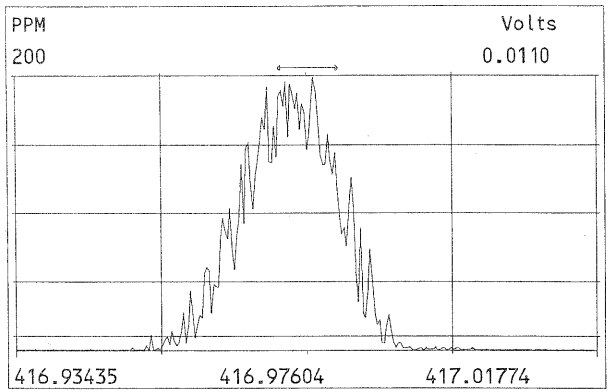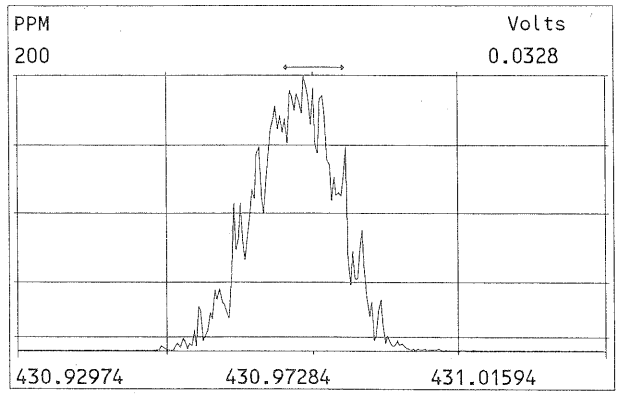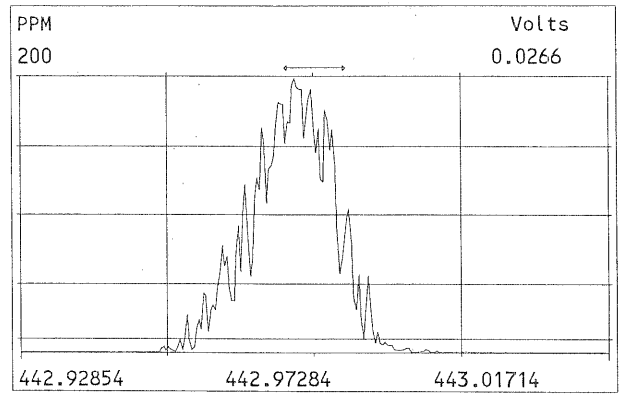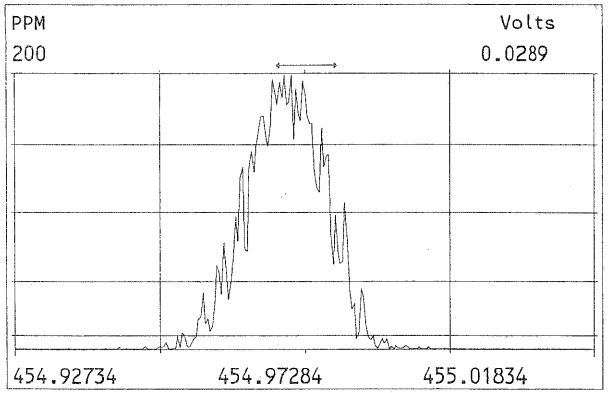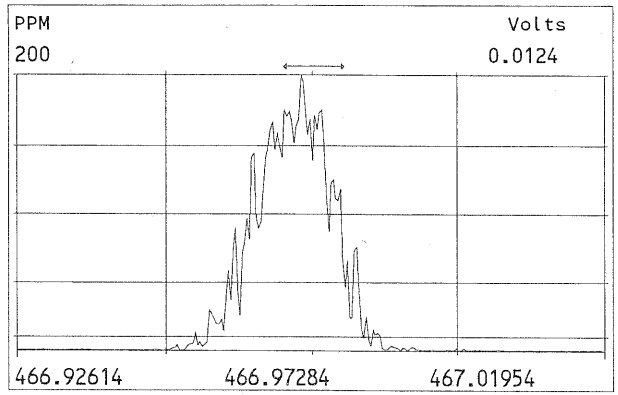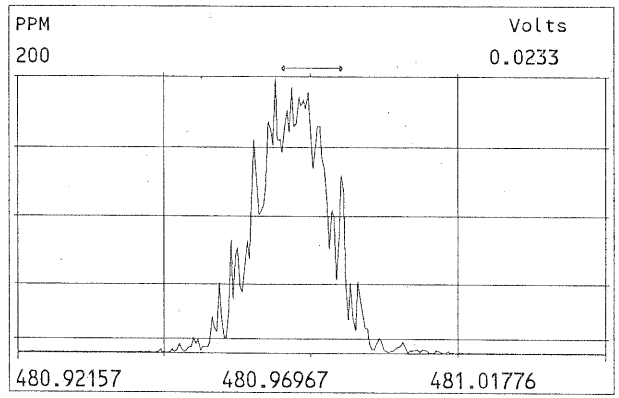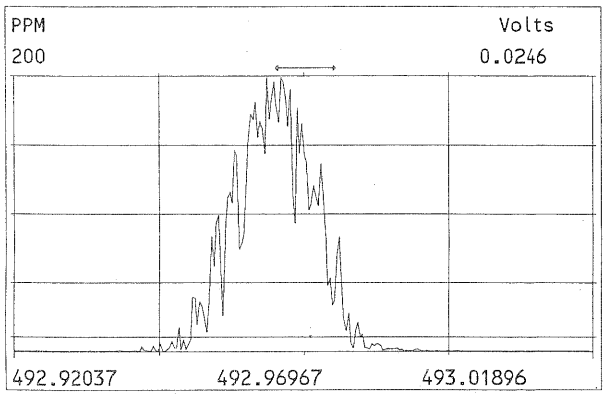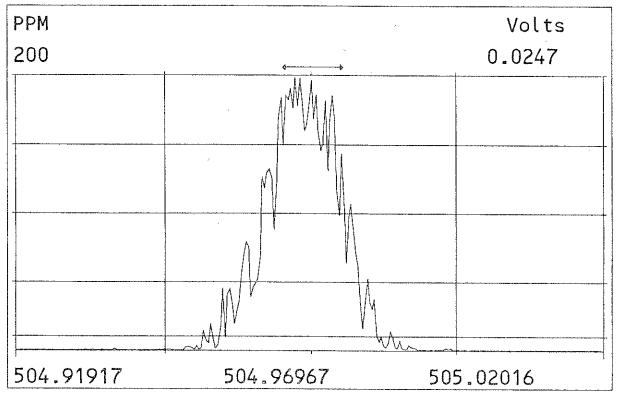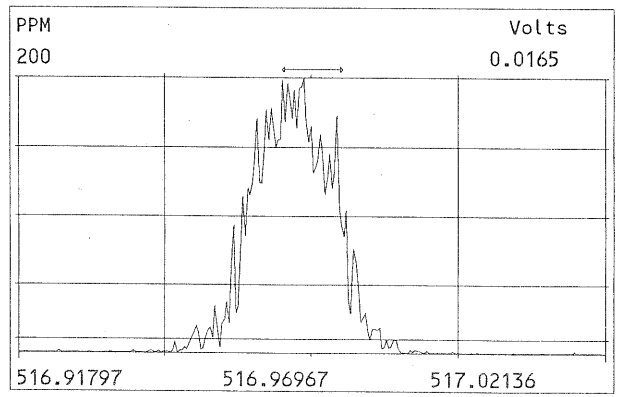
Experiment:1668PCB Function:6 Reference:PFK 8J