Lower Duwamish Waterway

NPDES Inspection Sampling Support 2014/2015

Prepared for

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Appendix P
Chemithon Corporation

Limitation of Use: Leidos' project activities were restricted to collection and analysis of a limited number of environmental samples and visual observations obtained during the physical site visit, and from records made available by Ecology or third parties during the project. In preparing this report, Leidos has relied on verbal and written information provided by secondary sources and interviews, including information provided by the customer. Leidos has made no independent investigations concerning the accuracy or completeness of the information relied upon. Because the project activities consisted of collecting and evaluating a limited supply of information, Leidos may not have identified all potential items of concern and, therefore, Leidos warrants only that the project activities under this contract have been performed within the parameters and scope communicated by Ecology and reflected in the contract. Maps presented in this report were accurate based on the information available to Leidos at the time that the facility inspections were conducted.

This report is intended to be used in its entirety. Taking or using in any way excerpts from this report are not permitted and any party doing so does so at its own risk.

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P-1 Introduction and Background

Facility Name	Chemithon Corporation
Facility/Site ID	41953656
Address	5430 West Marginal Way SW Seattle, WA 98106
NPDES Permit Type	Industrial Stormwater General Permit
NPDES Permit No.	WAR000033
Permit Monitoring Requirements	Turbidity, pH, total zinc, total copper, petroleum–oil, grease
SIC Code	8731: Commercial Physical Research 5169: Chemicals & Allied Products, NEC 3599: Industrial Machinery
Inspection Date	October 13, 2014
Grab Samples	2 water samples; 3 solids samples
Sample ID(s)	CC-A-01-20141013-W CC-FD-02-20141013-2 CC-A-01-20141013-S CC-CB-04-20141013-S CC-CB-22-20141013-S
Water Sample Analytes	Total metals, mercury, PCB congeners, SVOCs, dioxins/furans, alkalinity/carbonate/bicarbonate, anions, specific conductance, pH, TOC, DOC, TSS
Solids Sample Analytes	Total metals, mercury, PCB Aroclors, PCB congeners, dioxins/furans, SVOCs, VOCs (CC-CB-04 only), TPH-diesel/motor oil, TPH-gasoline (CC-CB-04 only), grain size, TOC
Split Samples with Facility	No

The Chemithon Corporation (Chemithon) is located along West Marginal Way SW at River Mile 1.2 West of the Lower Duwamish Waterway (LDW). The private storm drain system at Chemithon discharges directly to the LDW (Figure P-1). Materials and manufactured equipment are generally delivered by truck and transported by forklift trucks to storage areas. Large raw material items such as stainless steel rolled shells, pipe, and structural steel may be placed in outdoor storage areas or holding racks until needed. Fabrication work is generally conducted in the warehouse or under covered areas adjacent to the warehouse on the west wall.

Upon completion of the manufacturing process, finished goods are loaded onto trucks in the yard area. The scrap material from manufacturing processes is collected into temporary storage bins and recycling dumpsters that are stored outdoors and kept covered when not in use. Occasionally, Chemithon receives or ships liquid products in Department of Transportation

(DOT) approved containers such as 55-gallon drums. These materials are used in the manufacturing shops and in the research and development areas (Chemithon 2010).

The warehouse and manufacturing building located on the east side of the property is partially covered in galvanized corrugated sheet metal. The property is also surrounded by a galvanized chain link fence that is exposed to rainfall, and a portion of the fencing surrounds the stormwater collection zone. Chemithon maintains a number of storage racks for pipe and steel materials that are stored in the margins of the yard area and outdoors, exposed to precipitation. Temporary storage bins for waste and scrap metals are placed outdoors. Waste material dumpsters are present for general scrap materials going to waste disposal. A diesel fuel station is located at the southwest corner of the yard on a concrete drain pad with a sump (Chemithon 2010). An overview of the facility is presented in Figure P-1.

P-1.1 Stormwater Conveyance

The property is divided into two drainage zones. Stormwater gathered from the east and south portion of the property flows to a main collection vault in the southeast corner of Chemithon's property. Stormwater is pumped from the vault, underneath the Lafarge Cement Company (Lafarge) property to the east, and discharged to the LDW. Only stormwater structures in the eastern drainage zone were inspected and/or sampled (Figure P-2).

Industrial wastewater and combined stormwater (from the western portion of the site) and sanitary sewer discharge goes to the sanitary sewer system (Chemithon 2010). A facility drainage map is presented in Figure P-1.

P-1.2 Recent Compliance History

Ecology previously conducted a stormwater compliance inspection at the facility in November 2007. Stockpiles located on the Lafarge property to the east had the potential to spill or blow onto the Chemithon property. The inspectors identified the following corrective actions:

- Conduct quarterly stormwater monitoring.
- Update the facility SWPPP to reflect current site conditions.
- Clean up areas of accumulated sediment.
- Implement best management practices and provide proper storage for liquid, food waste, and/or dangerous waste container storage.

No information on the facility's compliance with these corrective actions was available for review.

Based on available discharge monitoring reports, Chemithon Corporation exceeded benchmarks for copper during the 2nd quarter of 2011 and 2010 (Ecology 2015).

P-2 Inspection and Sampling

P-2.1 October 2014 Stormwater Compliance Inspection

On October 13, 2014, Ecology conducted a stormwater compliance inspection at Chemithon. Leidos assisted Ecology with inspection and sampling of the facility's stormwater conveyance system. The inspection included investigating influent and effluent points at drainage structures, preparing written and photographic documentation, and assessing whether the drainage structures contained sufficient sampleable material. The coordinates of sample locations are plotted on Figure P-2 using geographic information system software. An inspection photographic log and field documentation are presented in Attachments P-1 and P-2, respectively.

The field team inspected the following stormwater conveyance structures at Chemithon, as shown on Figure P-2 (structures where samples were collected are shown in bold font):

- **Sump/vault 01 (CC-A-01)**
- **Catch basin 04 (CC-CB-04)**
- Catch basin 18 (CC-CB-18)
- Catch basin 20 (CC-CB-20)
- Catch basin 21 (CC-CB-21)
- **Catch basin 22 (CC-CB-22)**
- Additional drainage areas.

Drains along the paved area at the north boundary of the facility are rerouted to collect stormwater and reuse it in the manufacturing process. Stormwater collected in the area that is not reused in the manufacturing process is discharged to the sanitary sewer. According to the drainage map and facility personnel, stormwater along the northwest and western property boundary is conveyed to the sanitary sewer. Drainage information in that area of the site could not be confirmed.

P-2.2 Stormwater Conveyance System Sampling

Ecology collected two water samples (including one field duplicate) and three solids samples from the stormwater conveyance system at Chemithon. Sample locations, analytes, and analytical methods are listed on Table P-1. Results for water samples are presented in Tables P-2 through P-6. Results for the solids samples are presented in Tables P-7 through P-9. Chain of custody forms and the laboratory reports are provided as Attachments P-3 and P-4, respectively.

P-2.2.1 Water Samples

Water sample CC-A-01-20141013-W and field duplicate sample CC-FD-02-20141013-W were collected from CC-A-01 (Figure P-2 and Attachment P-1). This sampling location is the sump/vault in the southeast corner of the property. The vault receives stormwater from all areas that drain the eastern portion of the facility. Stormwater is conveyed from the vault to two large storage vaults located underneath the Lafarge property to the east. The downstream storage vaults are used to prevent tidally influenced river water from entering the sump at Chemithon.

Stormwater is conveyed from the downstream vaults and discharges to the LDW via a 30-inch outfall.

P-2.2.2 Solids Samples

Solids sample CC-A-01-20141013-S was collected from sump/vault CC-A-01 (Figure P-2 and Attachment P-1). The location did not contain sufficient sampleable solids material to analyze for all parameters. TPH-gasoline, VOCs, TOC, and grain size were not analyzed in this sample.

Solids sample CC-CB-04-20141013-S was collected from catch basin CB-04. This catch basin is located upstream of the vault CC-A-01 (Figure P-2 and Attachment P-1). Stormwater from the eastern and central portion of the facility is conveyed to CC-CB-04. An oil sheen was observed in the water during sampling activities. Catch basin CB-04 also receives stormwater from a catch basin in the loading dock area where a covered dumpster is stored. A drainage line depicted on the facility map that enters this catch basin at the northwest corner (Figure P-1) could not be confirmed. The drainage line was not observed entering the catch basin during inspection.

Solids sample CC-CB-22-20141013-S was collected as a composite sample from four catch basins located at the northeast portion of the facility (Figure P-2 and Attachment P-1). The four catch basins from which the solids sample was collected are CB-18, CB-20, CB-21, and CB-22. All four catch basins drain to the same drainage line that conveys stormwater south to sump/vault CC-A-01. The catch basins are located in the employee parking area and the manufacturing building.

P-3 Results

P-3.1 Chemical Analysis

Ecology collected two water (including one field duplicate) and three solids samples during the October 13, 2014 stormwater compliance inspection at Chemithon Corporation. Analytical methods, chemical results and regulatory criteria are presented in Tables P-1 through P-9.

All chemical results were independently validated by EcoChem, Inc. of Seattle, WA. A compliance-level, U.S. Environmental Protection Agency (EPA) Stage 2A data validation was performed on all chemistry results. Data validation was performed following EPA guidance (EPA 1994, 2008, 2009, 2010). The data validation report is available as Attachment 1 to the NPDES Inspection Sampling Support (2014/2015) Report (Leidos 2015).

Copper and total PCB congeners were present at concentrations above a screening level in both water samples (Table P-4). In solids samples, metals (arsenic, chromium, copper, zinc), PCBs (total Aroclors and total congeners), and phthalates (bis[2-ethylhexyl]phthalate, butylbenzylphthalate, dimethylphthalate) exceeded one or more screening levels in all three samples that were collected (Table P-8). In addition, benzyl alcohol and diesel-range hydrocarbons exceeded a screening level in one solids sample, and motor oil-range hydrocarbons exceeded a screening level in two solids samples (Table P-8).

P-3.2 Inspection Results and Permit Compliance Requirements

The Ecology inspection report was not available for review.

P-4 References

Chemithon. 2010. Stormwater Pollution Prevention Plan, The Chemithon Corporation, 5430 W. Marginal Way SW, Seattle, WA, 98106. November 5, 2010.

Ecology (Washington State Department of Ecology). 2008. Stormwater Compliance Inspection Report: Chemithon Corporation. January 22, 2008.

Ecology. 2015. Water Quality Permitting and Reporting Information System, Summary Information, Chemithon Corporation. Online database; accessed May 4, 2015.

EPA (Environmental Protection Agency). 1994. *USEPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review.* EPA 540/R-94/013. Office of Emergency and Remedial Response. February 1994.

EPA. 2008. *USEPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review*. EPA-540-R-08-01. Office of Emergency and Remedial Response. June 2008.

EPA. 2009. *Guidance for labeling externally validated laboratory analytical data for Superfund use.* EPA-540-R-08-005. Office of Emergency and Remedial Response. January 2009.

EPA. 2010. *USEPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review*. EPA 540-R-10-011. Office of Emergency and Remedial Response. January 2010.

Leidos. 2015. Lower Duwamish Waterway NPDES Inspection Sampling Support, 2014/2015. Prepared for Washington State Department of Ecology, Toxics Cleanup Program, Northwest Regional Office. June 2015.

Figures

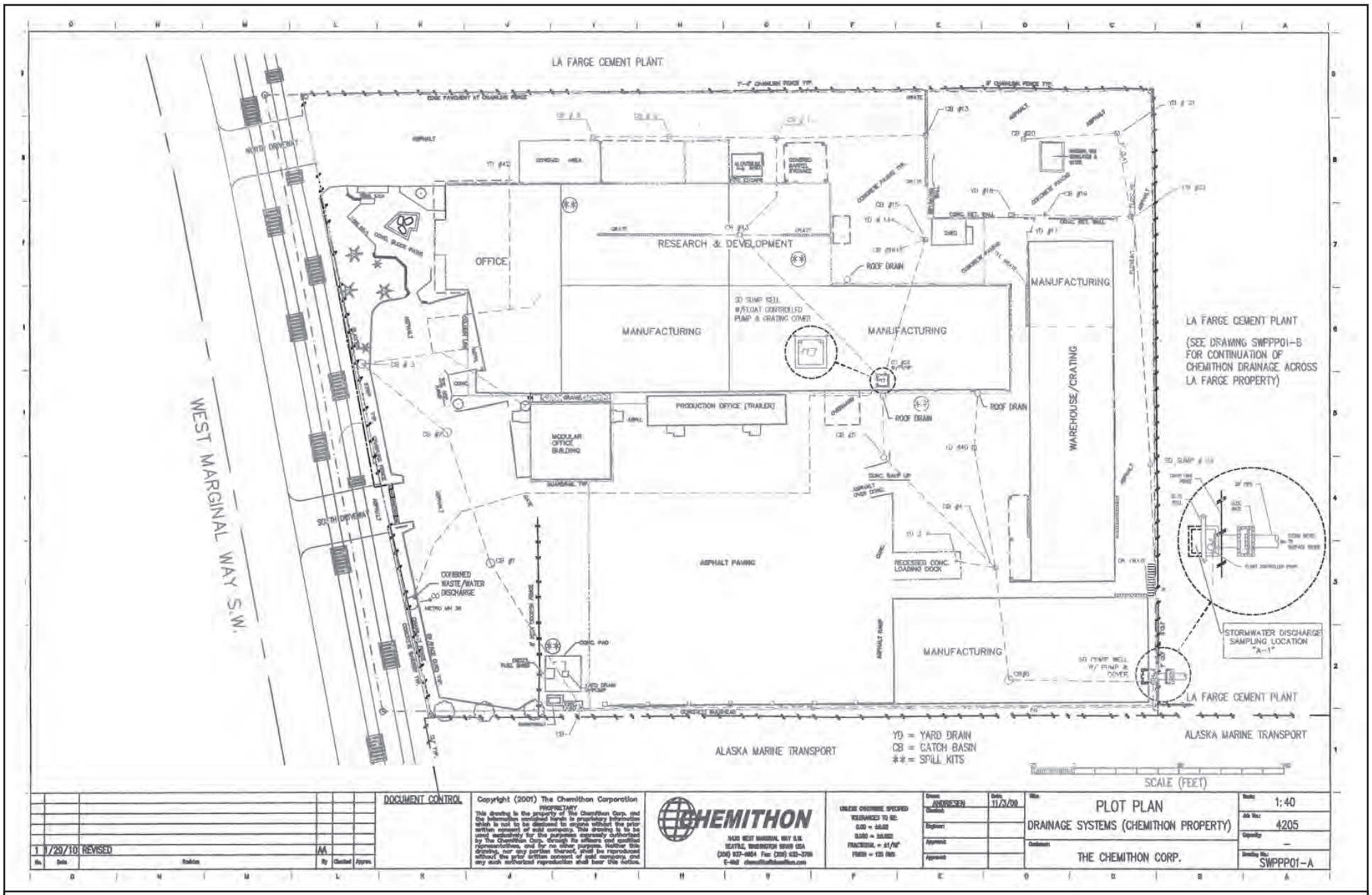

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Figure P-1a. Chemithon Corporation SWPPP Map

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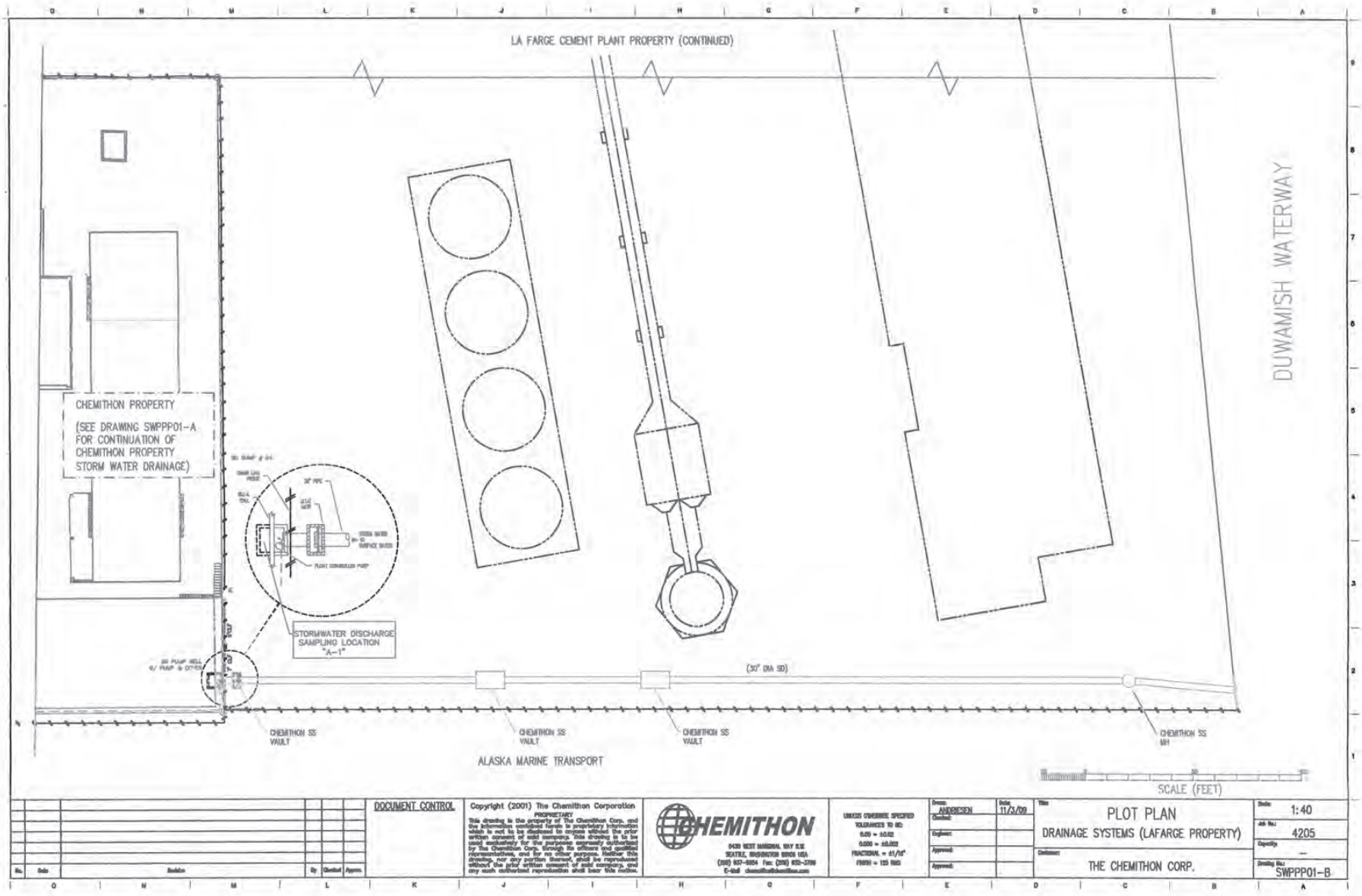

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Figure P-1b. Chemithon Corporation SWPPP Map

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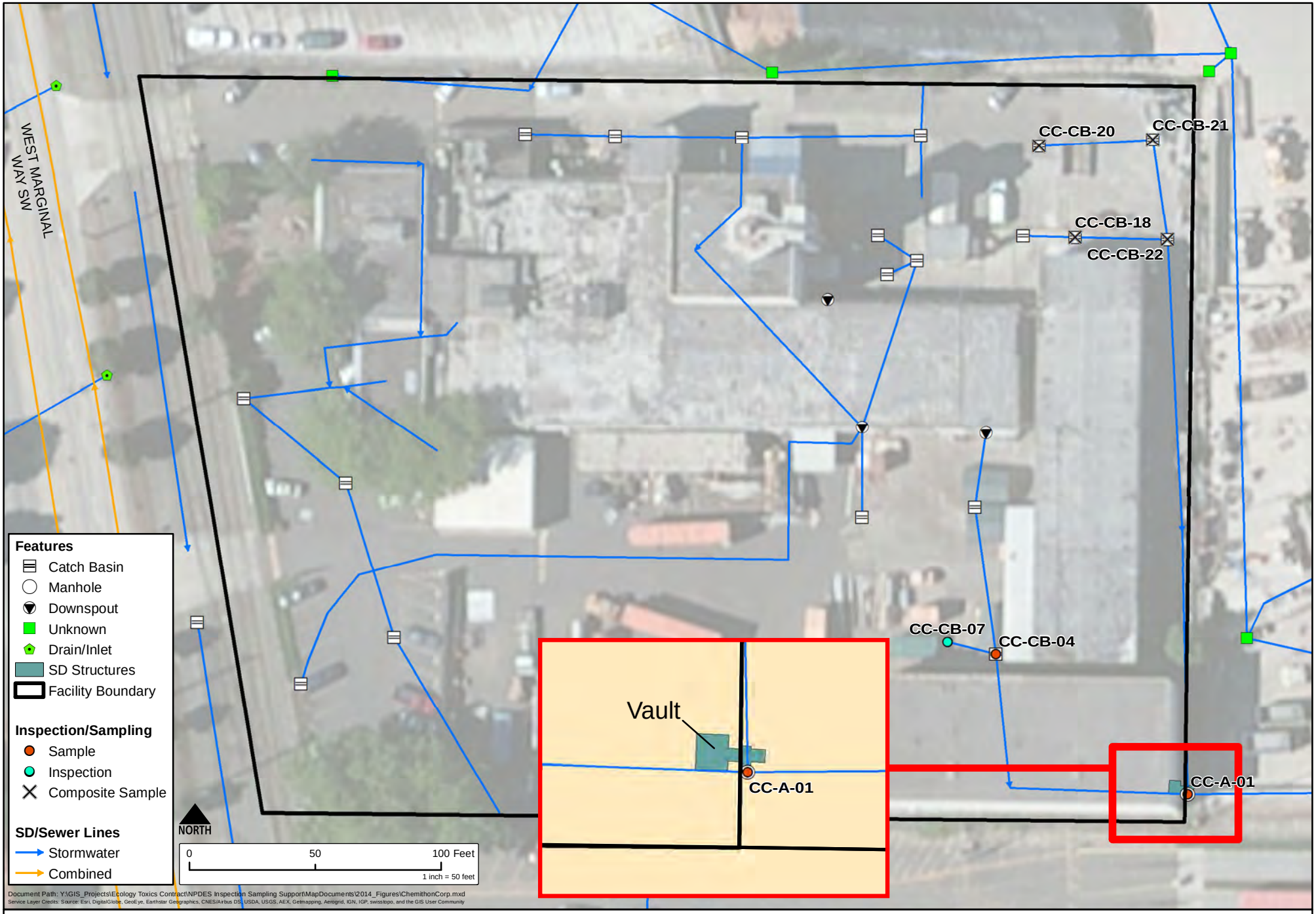

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Figure P-2. Chemithon Corporation Inspection and Sample Locations

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Tables

Acronyms and Abbreviations Used in Tables

<	not detected
%	percent
2LAET	Second Lowest Apparent Effects Threshold
$CaCO_3$	calcium carbonate
CB	chlorobiphenyl
cPAH	carcinogenic polycyclic aromatic hydrocarbon
CSL	Cleanup Screening Level
EF	exceedance factor (sample result / criteria value)
EMPC	estimated maximum possible concentration
EPA	U.S. Environmental Protection Agency
HHO	human health – consumption of organisms only
HPAH	high molecular weight polycyclic aromatic hydrocarbon
ICP-MS	Inductively coupled plasma – mass spectrometry
ISGP	Industrial Stormwater General Permit
J	estimated concentration
JN	estimated concentration
LAET	Lower Apparent Effects Threshold
LDW	Lower Duwamish Waterway
LPAH	low molecular weight polycyclic aromatic hydrocarbon
MA	marine acute
MC	marine chronic
µg/L	micrograms per liter
µmhos/cm	micromhos per centimeter
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mS/cm	milliSiemens per centimeter
MTCA	Model Toxics Control Act
na	not analyzed
nd	not detected

ng/kg	nanograms per kilogram
NPDES	National Pollutant Discharge Elimination System
NR WQC	National Recommended Water Quality Criteria
NTR WQC	National Toxics Rule Water Quality Criteria
NTU	Nephelometric Turbidity Units
OC	organic carbon
ORP	Oxidation Reduction Potential
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyl
pg/L	picograms per liter
PSEP	Puget Sound Estuary Program
R	rejected during data validation review
RAL	Remedial Action Level
RL	reporting limit
SCO	Sediment Cleanup Objective
SDL	sample detection limit
SIM	Selected ion monitoring
SMS	Washington State Sediment Management Standards
std units	standard units
SVOC	Semivolatile organic compound
SW	Surface water
TEQ	toxic equivalency
TPH	Total petroleum hydrocarbon
U	not detected
U*	Flagged as EMPC by the laboratory; this was changed to U (non-detect) during data validation
VOC	volatile organic compound
WA WQC	Washington State Water Quality Criteria
WQC	Water Quality Criteria

Table P-1
Sampling Locations and Analytical Methods
Chemithon

Analyte	Method	Sample Location / Collection Date			
		CC-A-01 10/13/2014	CC-FD-02 10/13/2014	CC-CB-04 10/13/2014	CC-CB-22 10/13/2014
Water Samples					
Metals (total)	EPA 200.8	●	●		
Mercury (total, dissolved)	EPA 245.1	●	●		
PCB Congeners	EPA 1668C	●	●		
SVOCs	SW 8270D-Low	●	●		
Dioxins/furans	EPA 1613B	●	●		
Alkalinity/Carbonate/Bicarbonate	SM 2320B	●	●		
Anions	EPA 300.0	●	●		
Specific Conductance	EPA 120.1	●	●		
pH	SM 4500H+B	●	●		
Total organic carbon	SM 5310B	●	●		
Dissolved organic carbon	SM 5310B	●	●		
Total suspended solids	SM 2540D	●	●		
Solids Samples					
Metals (total)	SW 6020	●		●	●
Mercury	SW 7471A	●		●	●
PCB Aroclors	EPA 8082	●		●	●
PCB Congeners	EPA 1668C	●		●	●
Dioxins/furans	EPA 1613B	●		●	●
SVOCs	SW 8270D-Low	●		●	●
VOCs	SW 8260B-Low			●	
TPH-diesel/motor oil	NWTPH-Dx	●		●	●
TPH-gasoline	NWTPH-Gx			●	
Grain size	PSEP Plumb 1981			●	●
Total organic carbon	PSEP 9060			●	●

Bullet indicates a sample was collected for the listed analyte at the specified location.

Table P-2. Water Quality Data - Field Measurements
Chemithon

		Location ID	**CC-A-01**
		Collection Date	**10/13/2014**
Analyte	**ISGP Benchmark**	**Units**	**Result**
Field Parameters			
Flow	--	Yes/No	No
pH	5.0 to 9.0	std units	7.1
Conductivity	--	mS/cm	0.21 a
Temperature	--	degrees C	17.8
Total Dissolved Solids	--	mg/L	na
Turbidity	25	NTU	18
Oil & Grease	No visible sheen	Yes/No	No
Dissolved Oxygen	--	mg/L	9.4 b
ORP	--	mV	259

Results in **bold** exceed the ISGP benchmark.

a - Field form incorrectly lists units as S/cm; should be mS/cm

b - Field form incorrectly lists units as g/L; should be mg/L

Table P-3. Water Sample Results
Chemithon

Analyte	ISGP Benchmark	WA WQC Marine Chronic	WA WQC Marine Acute	NTR WQC HHO	NR WQC HHO	Location ID / CC-A-01 Result	Location ID / CC-FD-02 Result
						Collection Date: 10/13/2014	Collection Date: 10/13/2014
Total Metals (µg/L)							
Antimony	--	--	--	--	--	**1.5**	**1.3**
Arsenic	150	36	69	--	--	**1.8**	**1.5**
Beryllium	--	--	--	--	--	< 0.40 U	< 0.40 U
Cadmium	2.1	9.4	42	--	--	**0.24 J**	**0.23 J**
Chromium	--	--	--	--	--	**1.1**	**1.2**
Chromium, hexavalent	--	--	--	--	--	na	na
Copper	14	3.7	5.8	--	--	**12**	**12**
Lead	81.6	8.5	221	--	--	**1.7**	**1.6**
Mercury	1.4	0.025	2.1	--	--	< 0.20 U	< 0.20 U
Nickel	--	8.3	75	--	--	**7.5**	**7.6**
Selenium	5	71	291	--	--	< 1.0 U	< 1.0 U
Silver	3.8	--	2.2	--	--	< 0.40 U	< 0.40 U
Thallium	--	--	--	--	--	< 1.0 U	< 1.0 U
Zinc	117	86	95	--	--	**70**	**68**
PCB Congeners (µg/L) [a]							
Total PCB Congeners	--	0.03	10	1.70E-04	6.40E-05	**0.010 J**	**0.010 J**
PCB TEQ, nd SDL*0	--	0.03	10	--	--	**1.79E-06 J**	**1.90E-06 J**
PCB TEQ, nd SDL*0.5	--	0.03	10	--	--	**1.86E-06 J**	**1.99E-06 J**
PCB TEQ, nd SDL*1	--	0.03	10	--	--	**1.93E-06 J**	**2.08E-06 J**
Dioxins and Furans (pg/L) [a]							
2,3,7,8-TCDD	--	--	--	0.014	0.0051	< 1.51 U	< 1.30 U
1,2,3,7,8-PeCDD	--	--	--	--	--	< 0.930 U	< 0.770 U
1,2,3,4,7,8-HxCDD	--	--	--	--	--	< 2.40 U	< 2.24 U
1,2,3,6,7,8-HxCDD	--	--	--	--	--	< 2.56 U	< 2.31 U
1,2,3,7,8,9-HxCDD	--	--	--	--	--	< 2.67 U	< 2.44 U
1,2,3,4,6,7,8-HpCDD	--	--	--	--	--	**5.83 J**	**5.82 J**
OCDD	--	--	--	--	--	**33.7 J**	**33.9 J**
2,3,7,8-TCDF	--	--	--	--	--	< 0.998 U	< 1.73 U
1,2,3,7,8-PeCDF	--	--	--	--	--	< 1.38 U	< 1.44 U
2,3,4,7,8-PeCDF	--	--	--	--	--	< 1.06 U	< 1.69 U
1,2,3,4,7,8-HxCDF	--	--	--	--	--	< 0.602 U	< 0.807 U
1,2,3,6,7,8-HxCDF	--	--	--	--	--	< 0.644 U	< 0.912 U
1,2,3,7,8,9-HxCDF	--	--	--	--	--	< 0.728 U	< 0.817 U
2,3,4,6,7,8-HxCDF	--	--	--	--	--	< 0.502 U	< 0.591 U
1,2,3,4,6,7,8-HpCDF	--	--	--	--	--	< 1.37 U*	< 2.37 U
1,2,3,4,7,8,9-HpCDF	--	--	--	--	--	< 1.17 U	< 0.790 U
OCDF	--	--	--	--	--	< 1.86 U	< 2.50 U
Total TCDD	--	--	--	--	--	< 1.51 U	< 1.30 U
Total PeCDD	--	--	--	--	--	< 0.93 U	< 1.18 U
Total HxCDD	--	--	--	--	--	< 3.64 U	< 3.70 U
Total HpCDD	--	--	--	--	--	**14.0**	**5.82 J**
Total TCDF	--	--	--	--	--	< 1.33 U	< 1.73 U
Total PeCDF	--	--	--	--	--	< 0.532 U*	< 0.462 U*
Total HxCDF	--	--	--	--	--	< 0.886 U*	< 0.960 U*
Total HpCDF	--	--	--	--	--	**1.20 J**	< 2.70 U
Dioxin/Furan TEQ, nd SDL*0	--	--	--	--	--	**0.0684 J**	**0.0684 J**
Dioxin/Furan TEQ, nd SDL*0.5	--	--	--	--	--	**2.04 J**	**1.99 J**
Dioxin/Furan TEQ, nd SDL*1	--	--	--	--	--	**4.00 J**	**3.91 J**
PAHs (µg/L)							
1-Methylnaphthalene	--	--	--	--	--	< 0.058 U	< 0.059 U
2-Chloronaphthalene	--	--	--	--	1,600	< 0.058 U	< 0.059 U
2-Methylnaphthalene	--	--	--	--	--	< 0.19 U	< 0.20 U
Acenaphthene	--	--	--	--	990	< 0.096 U	< 0.098 U
Acenaphthylene	--	--	--	--	--	< 0.077 U	< 0.078 U
Anthracene	--	--	--	110,000	40,000	< 0.038 U	< 0.039 U

Table P-3. Water Sample Results
Chemithon

Analyte	ISGP Benchmark	WA WQC Marine Chronic	WA WQC Marine Acute	NTR WQC HHO	NR WQC HHO	Location ID	CC-A-01 Result		CC-FD-02 Result	
						Collection Date	10/13/2014		10/13/2014	
Benzo(a)anthracene	--	--	--	0.031	0.018		< 0.058	U	< 0.059	U
Benzo(a)pyrene	--	--	--	0.031	0.018		< 0.038	U	< 0.039	U
Benzo(b)fluoranthene	--	--	--	0.031	0.018		< 0.077	U	< 0.078	U
Benzo(g,h,i)perylene	--	--	--	--	--		< 0.058	U	< 0.059	U
Benzo(k)fluoranthene	--	--	--	0.031	0.018		< 0.058	U	< 0.059	U
Chrysene	--	--	--	0.031	0.018		< 0.038	U	< 0.039	U
Dibenz(a,h)anthracene	--	--	--	0.031	0.018		< 0.058	U	< 0.059	U
Dibenzofuran	--	--	--	--	--		< 0.38	U	< 0.39	U
Fluoranthene	--	--	--	370	140		< 0.048	U	< 0.049	U
Fluorene	--	--	--	14,000	5,300		< 0.058	U	< 0.059	U
Indeno(1,2,3-cd)pyrene	--	--	--	0.031	0.018		< 0.058	U	< 0.059	U
Naphthalene	--	--	--	--	--		< 0.38	U	< 0.39	U
Phenanthrene	--	--	--	--	--		< 0.077	U	< 0.078	U
Pyrene	--	--	--	11,000	4,000		< 0.058	U	< 0.059	U
Total Benzofluoranthenes	--	--	--	--	--		< 0.077	U	< 0.078	U
Total HPAHs	--	--	--	--	--		< 0.077	U	< 0.078	U
Total LPAHs	--	--	--	--	--		< 0.38	U	< 0.39	U
Total PAHs	--	--	--	--	--		< 0.38	U	< 0.078	U
cPAHs, nd RL*0	--	--	--	--	--		< 0	U	< 0	U
cPAHs, nd RL*0.5	--	--	--	--	--		< 0.035	U	< 0.035	U
cPAHs, nd RL*1	--	--	--	--	--		< 0.069	U	< 0.071	U
Phthalates (µg/L)										
bis(2-Ethylhexyl)phthalate	--	--	--	5.9	2.2		< 2.0	U	< 4.0	U
Butylbenzylphthalate	--	--	--	--	1,900		< 0.58	U	< 0.59	U
Di-n-Butylphthalate	--	--	--	12,000	4,500		**0.49**		**0.62**	
Diethylphthalate	--	--	--	120,000	44,000		**0.11**	**J**	**0.13**	**J**
Dimethylphthalate	--	--	--	2,900,000	1,100,000		< 0.38	U	< 0.39	U
Di-n-Octyl phthalate	--	--	--	--	--		**0.25**	**J**	< 0.39	U
Phenols (µg/L)										
2,3,4,6-Tetrachlorophenol	--	--	--	--	--		na		na	
2,4,5-Trichlorophenol	--	--	--	--	3,600		< 0.38	U	< 0.39	U
2,4,6-Trichlorophenol	--	--	--	6.5	2.4		< 0.58	U	< 0.59	U
2,4-Dichlorophenol	--	--	--	790	290		< 0.38	U	< 0.39	U
2,4-Dimethylphenol	--	--	--	--	850		< 1.9	U	< 2.0	U
2,4-Dinitrophenol	--	--	--	14,000	5,300		< 4.8	U	< 4.9	U
2-Chlorophenol	--	--	--	--	150		< 0.38	U	< 0.39	U
2-Methylphenol	--	--	--	--	--		< 0.38	U	< 0.39	U
2-Nitrophenol	--	--	--	--	--		< 0.38	U	< 0.39	U
4,6-Dinitro-2-Methylphenol	--	--	--	765	280		< 3.8	U	< 3.9	U
4-Chloro-3-methylphenol	--	--	--	--	--		< 0.38	U	< 0.39	U
4-Methylphenol	--	--	--	--	--		**0.22**	**J**	**0.14**	**J**
4-Nitrophenol	--	--	--	--	--		< 2.9	U	< 2.9	U
Pentachlorophenol	--	7.9	13	8.2	3.0		< 0.67	U	< 0.69	U
Phenol	--	--	--	4,600,000	860,000		< 0.58	U	< 0.59	U
Other SVOCs (µg/L)										
1,2,4-Trichlorobenzene	--	--	--	--	70		< 0.38	U	< 0.39	U
1,2-Dichlorobenzene	--	--	--	17,000	1,300		< 0.38	U	< 0.39	U
1,3-Dichlorobenzene	--	--	--	2,600	960		< 0.38	U	< 0.39	U
1,4-Dichlorobenzene	--	--	--	2,600	190		< 0.38	U	< 0.39	U
2,4-Dinitrotoluene	--	--	--	9.1	3.4		< 0.38	U	< 0.39	U
2,6-Dinitrotoluene	--	--	--	--	--		< 0.38	U	< 0.39	U
2-Nitroaniline	--	--	--	--	--		< 0.38	U	< 0.39	U
3,3'-Dichlorobenzidine	--	--	--	0.077	0.028		< 1.9	U	< 2.0	U
3-Nitroaniline	--	--	--	--	--		< 0.38	U	< 0.39	U
4-Bromophenyl-phenylether	--	--	--	--	--		< 0.38	U	< 0.39	U
4-Chloroaniline	--	--	--	--	--		< 0.38	U	< 0.39	U
4-Chlorophenyl-phenylether	--	--	--	--	--		< 0.38	U	< 0.39	U

Table P-3. Water Sample Results
Chemithon

Analyte	ISGP Benchmark	WA WQC Marine Chronic	WA WQC Marine Acute	NTR WQC HHO	NR WQC HHO	Location ID: CC-A-01 Collection Date: 10/13/2014 Result			Location ID: CC-FD-02 Collection Date: 10/13/2014 Result		
4-Nitroaniline	--	--	--	--	--	<	0.58	U	<	0.59	U
Benzoic Acid	--	--	--	--	--		**1.1**	**J**		**1.4**	**J**
Benzyl Alcohol	--	--	--	--	--	<	0.38	U	<	0.39	U
2,2'-Oxybis(1-Chloropropane)	--	--	--	170,000	65,000	<	0.38	U	<	0.39	U
bis(2-Chloroethoxy) Methane	--	--	--	--	--	<	0.38	U	<	0.39	U
Bis-(2-Chloroethyl) Ether	--	--	--	1.4	0.53	<	0.38	U	<	0.39	U
Carbazole	--	--	--	--	--	<	0.38	U	<	0.39	U
Hexachlorobenzene	--	--	--	0.00077	0.00029	<	0.38	U	<	0.39	U
Hexachlorobutadiene	--	--	--	50	18	<	0.58	U	<	0.59	U
Hexachlorocyclopentadiene	--	--	--	17,000	1,100	<	1.9	U	<	2.0	U
Hexachloroethane	--	--	--	8.9	3.3	<	0.58	U	<	0.59	U
Isophorone	--	--	--	600	960	<	0.38	U		**0.13**	**J**
Nitrobenzene	--	--	--	1,900	690	<	0.38	U	<	0.39	U
N-Nitrosodimethylamine	--	--	--	8.1	3.0	<	1.9	U	<	2.0	U
N-Nitroso-Di-N-Propylamine	--	--	--	--	0.51	<	0.38	U	<	0.39	U
N-Nitrosodiphenylamine	--	--	--	16	6.0	<	0.38	U	<	0.39	U

Results in **bold** are detections.

Results that are shaded in gray exceed one or more criteria.

a - Total PCB congeners and PCB/dioxin/furan TEQs include only congeners that met identification criteria as required by EPA Method1668C (PCBs) or EPA Method 1613B (dioxins/furans).

PCB and dioxin/furan congeners identified with a U* qualifier were tagged as "estimated maximum possible concentrations" by the laboratory. This was changed to non-detect (U) during data validation.

Table P-4. Water Sample Results Compared to Criteria
Chemithon

Location ID	CC-A-01					CC-FD-02				
Collection Date	10/13/2014					10/13/2014				
	Exceedance Factor					Exceedance Factor				
Analyte	ISGP Benchmark	WA Marine Chronic	WA Marine Acute	NTR Human Health - Organisms	NR Human Health - Organisms	ISGP Benchmark	WA Marine Chronic	WA Marine Acute	NTR Human Health - Organisms	NR Human Health - Organisms
Total Metals										
Copper		3.2	2.1				3.2	2.1		
PCB Congeners										
Total PCB Congeners				59	158				61	161

Exceedance Factors (EFs) are presented for detected concentrations only.

Only chemicals with EF > 1 are shown.

The EFs are calculated (result divided by criterion) and have no regulatory relevance. They provide an indication of the general magnitude of the concentration relative to the WA, NTR, or NR Water Quality Criteria.

Table P-5. Water Sample Results - PCB Congeners
Chemithon

Location ID	CC-A-01		CC-FD-02	
Collection Date	**10/13/2014**		**10/13/2014**	
Analyte	**Result**		**Result**	
Total PCB Congeners (µg/L)	0.0101	J	0.0103	J
Total PCB Congeners (pg/L)	10,100	J	10,300	J
Total Mono-CB (pg/L)	6.01	J	6.03	J
PCB-1	2.64	J	2.50	J
PCB-2	1.06	J	1.05	J
PCB-3	2.31	J	2.48	J
Total Di-CB (pg/L)	29.5	J	24.0	J
PCB-4/10	6.28	J	< 6.14	U*
PCB-5/8	11.2	J	11.2	J
PCB-6	< 5.86	U	< 2.83	U*
PCB-7/9	< 5.82	U	< 6.01	U
PCB-11	< 78.5	U	< 80.4	U
PCB-12/13	< 5.78	U	< 5.98	U
PCB-14	< 5.16	U	< 5.33	U
PCB-15	12.0		12.8	
Total Tri-CB (pg/L)	120	J	128	J
PCB-16/32	12.0		12.2	
PCB-17	5.92		5.53	
PCB-18	16.4		17.3	
PCB-19	2.87	J	2.89	J
PCB-20/21/33	13.2	J	13.5	J
PCB-22	8.66		9.01	
PCB-23	< 0.858	U	< 0.791	U
PCB-24/27	2.03	J	2.07	J
PCB-25	< 1.54	U*	2.12	J
PCB-26	< 4.12	U*	5.13	
PCB-28	18.6		18.2	
PCB-29	< 0.846	U	< 0.780	U
PCB-30	< 0.675	U	< 0.649	U
PCB-31	18.8		20.0	
PCB-34	< 0.892	U	< 0.822	U
PCB-35	3.89	J	3.71	J
PCB-36	< 0.868	U	< 0.791	U
PCB-37	17.6		16.8	
PCB-38	< 0.882	U	< 0.805	U
PCB-39	< 0.842	U	< 0.767	U
Total Tetra-CB (pg/L)	793	J	782	J
PCB-40	7.46		9.03	
PCB-41/64/71/72	43.5		42.4	
PCB-42/59	10.3		10.9	
PCB-43/49	37.1		38.7	
PCB-44	77.6		74.9	
PCB-45	3.90	J	4.50	J
PCB-46	2.71	J	2.38	J
PCB-47	11.0		9.99	
PCB-48/75	4.41	J	3.73	J
PCB-50	< 1.94	U	< 1.40	U
PCB-51	2.18	J	1.75	J
PCB-52/69	141		136	
PCB-53	5.02		5.20	
PCB-54	< 1.56	U	< 1.13	U
PCB-55	3.73	J	< 1.81	U*

Table P-5. Water Sample Results - PCB Congeners
Chemithon

Location ID	CC-A-01		CC-FD-02	
Collection Date	10/13/2014		10/13/2014	
Analyte	Result		Result	
PCB-56/60	45.8		46.0	
PCB-57	< 1.37	U	< 1.01	U
PCB-58	< 1.38	U	< 1.02	U
PCB-61/70	208		215	
PCB-62	< 1.58	U	< 1.15	U
PCB-63	2.55	J	< 1.89	U*
PCB-65	< 1.53	U	< 1.11	U
PCB-67	2.75	J	2.91	J
PCB-68	< 1.37	U	< 0.998	U
PCB-73	< 1.54	U	< 1.15	U
PCB-74	39.6		39.1	
PCB-76/66	70.4		70.6	
PCB-77	64.2		68.0	
PCB-78	< 1.38	U	< 1.08	U
PCB-79	7.56		< 5.17	U*
PCB-80	< 1.15	U	< 0.868	U
PCB-81	2.20	J	1.37	J
Total Penta-CB (pg/L)	3,600	J	3,610	J
PCB-82	73.8		76.5	
PCB-83	< 1.96	U	< 1.87	U
PCB-84/92	198		191	
PCB-85/116	79.4		80.0	
PCB-86	< 2.92	U	< 2.78	U
PCB-87/117/125	212		215	
PCB-88/91	60.2		58.4	
PCB-89	3.05	J	2.75	J
PCB-90/101	541		537	
PCB-93	< 2.74	U	< 2.38	U
PCB-94	< 2.80	U	< 2.43	U
PCB-95/98/102	344		341	
PCB-96	< 2.16	U	< 2.08	U*
PCB-97	157		160	
PCB-99	170		171	
PCB-100	< 2.35	U	< 2.19	U
PCB-103	2.88	J	< 1.73	U*
PCB-104	< 1.87	U	< 1.75	U
PCB-105	272		275	
PCB-106/118	649		655	
PCB-107/109	49.3		49.0	
PCB-108/112	23.0		24.7	
PCB-110	665		671	
PCB-111/115	9.57	J	8.84	J
PCB-113	2.71	J	< 1.82	U
PCB-114	12.1		13.2	
PCB-119	7.65		6.88	
PCB-120	< 1.68	U	2.80	J
PCB-121	< 1.63	U	< 1.41	U
PCB-122	7.50		8.00	
PCB-123	9.91		9.49	
PCB-124	31.5		31.5	
PCB-126	17.5		18.6	
PCB-127	< 3.24	U	< 3.98	U

Table P-5. Water Sample Results - PCB Congeners
Chemithon

Location ID	CC-A-01	CC-FD-02
Collection Date	10/13/2014	10/13/2014
Analyte	Result	Result
Total Hexa-CB (pg/L)	3,620 J	3,720 J
PCB-128/162	140	143
PCB-129	43.8	42.1
PCB-130	60.6	66.8
PCB-131	< 3.90 U	< 5.23 U
PCB-132/161	210	228
PCB-133/142	22.2	22.0
PCB-134/143	39.4	40.1
PCB-135	91.3	89.1
PCB-136	71.2	75.6
PCB-137	39.7	36.2
PCB-138/163/164	876	905
PCB-139/149	561	585
PCB-140	5.68	6.35
PCB-141	181	189
PCB-144	30.9	37.1
PCB-145	< 1.08 U	< 0.885 U
PCB-146/165	111	110
PCB-147	12.7	11.4
PCB-148	< 1.60 U	< 1.31 U
PCB-150	1.30 J	< 1.59 U*
PCB-151	134	136
PCB-152	< 1.08 U	< 0.881 U
PCB-153	737	740
PCB-154	8.71	9.69
PCB-155	< 1.04 U	< 0.852 U
PCB-156	72.5	77.9
PCB-157	21.6	22.4
PCB-158/160	102	105
PCB-159	< 3.05 U	< 3.97 U
PCB-166	3.72 J	< 4.15 U
PCB-167	42.5	45.5
PCB-168	< 2.60 U	< 3.49 U
PCB-169	< 4.54 U	< 6.02 U
Total Hepta-CB (pg/L)	1,630 J	1,700 J
PCB-170	178	184
PCB-171	53.4	52.9
PCB-172	41.4	43.7
PCB-173	< 3.61 U*	4.85
PCB-174	205	220
PCB-175	8.89	8.49
PCB-176	20.4	24.0
PCB-177	125	126
PCB-178	40.7	45.3
PCB-179	76.5	78.4
PCB-180	424	439
PCB-181	< 1.26 U	< 2.25 U
PCB-182/187	255	267
PCB-183	95.5	101
PCB-184	< 0.792 U	0.940 J
PCB-185	24.6	26.0
PCB-186	< 0.768 U	< 1.36 U

Table P-5. Water Sample Results - PCB Congeners
Chemithon

Location ID	CC-A-01		CC-FD-02	
Collection Date	10/13/2014		10/13/2014	
Analyte	Result		Result	
PCB-188	1.47	J	1.15	J
PCB-189	6.86		6.71	
PCB-190	36.7		34.7	
PCB-191	8.62		9.60	
PCB-192	< 1.12	U	< 2.01	U
PCB-193	23.1		23.5	
Total Octa-CB (pg/L)	306	J	333	J
PCB-194	74.8		83.3	
PCB-195	29.4		32.9	
PCB-196/203	75.6		82.0	
PCB-197	3.14	J	3.12	J
PCB-198	2.30	J	< 1.95	U*
PCB-199	79.3		87.0	
PCB-200	9.68		10.2	
PCB-201	12.4		12.6	
PCB-202	19.3		21.6	
PCB-204	< 1.33	U	< 1.37	U
PCB-205	< 5.54	U	< 7.36	U
Total Nona-CB (pg/L)	41.2	J	39.3	J
PCB-206	29.5		28.5	
PCB-207	4.07	J	4.24	J
PCB-208	7.64		6.49	
Deca-CB (pg/L)	< 7.34	U	< 15.1	U
PCB-209	< 7.34	U	< 15.1	U
PCB TEQ, nd SDL*0	1.79	J	1.90	J
PCB TEQ, nd SDL*0.5	1.86	J	1.99	J
PCB TEQ, nd SDL*1	1.93	J	2.08	J

Total PCB congeners and total PCB homologs include only congeners that met identification criteria as required by EPA Method 1668C.

Table P-6. Water Sample Results - Conventionals
Chemithon

		Location ID	CC-A-01		CC-FD-02	
		Collection	10/13/2014		10/13/2014	
Analyte	ISGP Benchmark	Units	Result		Result	
Conventionals						
Alkalinity	--	mg/L	41		40	
Bicarbonate	--	mg/L $CaCO_3$	41		40	
Carbonate	--	mg/L $CaCO_3$	< 5	U	< 5	U
Chloride	--	mg/L	11		11	
Specific Conductance	--	µmhos/cm	170		170	
Hydroxide	--	mg/L $CaCO_3$	na		na	
Nitrate	--	mg/L	0.22	J	0.22	J
pH	5-9	std units	7.06	J	7.07	J
Salinity	--	mg/L	na		na	
Sulfate	--	mg/L	12		12	
Dissolved Organic Carbon	--	mg/L	13		13	
Total Organic Carbon	--	mg/L	14		14	
Total Suspended Solids[a]	30	mg/L	< 10	U	10	
Turbidity	25	NTU	na		na	
Oil & Grease	--	mg/L	na		na	
Oil & Grease - Polar	--	mg/L	na		na	
Oil & Grease - Silica Gel Treated	--	mg/L	na		na	

a - The ISGP benchmark for Total Suspended Solids becomes effective on January 1, 2017.

Shaded results exceed the ISGP benchmark for that parameter.

Table P-7. Solids Sample Results
Chemithon

Analyte	SMS Criteria SCO/ LAET[a]	SMS Criteria CSL/ 2LAET	Unit	Location ID	CC-A-01	CC-CB-04	CC-CB-22
				Collection Date	10/13/2014	10/13/2014	10/13/2014
					Result	Result	Result
Metals (Total) (mg/kg)							
Antimony	--	--	mg/kg		**110**	**7.3**	**8.3**
Arsenic	57	93	mg/kg		**170**	**17**	**16**
Beryllium	--	--	mg/kg		**0.4**	**0.37**	**0.89**
Cadmium	5.1	6.7	mg/kg		**4.3**	**4.7**	**2.0**
Chromium	260	270	mg/kg		**3,800**	**8,600**	**380**
Copper	390	390	mg/kg		**540**	**420**	**540**
Lead	450	530	mg/kg		**250 J**	**69 J**	**180 J**
Mercury	0.41	0.59	mg/kg		**0.16**	**0.28**	**0.35**
Nickel	--	--	mg/kg		**2,800**	**5,900**	**360**
Selenium	--	--	mg/kg		**2.1**	**3.0**	**2.4**
Silver	6.1	6.1	mg/kg		**2.4**	**0.98**	**1.0**
Thallium	--	--	mg/kg		< 0.87 U	< 0.73 U	**0.22 J**
Zinc	410	960	mg/kg		**1,300**	**960**	**1,100**
PCB Aroclors (µg/kg)							
Aroclor 1016	--	--	µg/kg		< 17 U	< 16 U	< 17 U
Aroclor 1221	--	--	µg/kg		< 19 U	< 18 U	< 19 U
Aroclor 1232	--	--	µg/kg		< 19 U	< 18 U	< 19 U
Aroclor 1242	--	--	µg/kg		< 17 U	< 16 U	< 17 U
Aroclor 1248	--	--	µg/kg		< 17 U	< 16 U	< 17 U
Aroclor 1254	--	--	µg/kg		< 17 UJ	< 16 UJ	< 17 UJ
Aroclor 1260	--	--	µg/kg		**1,600 J**	**430 J**	**1,000 J**
Total PCB Aroclors	130	1,000	µg/kg		**1,600 J**	**430 J**	**1,000 J**
PCB Congeners (ug/kg) [b]							
Total PCB Congeners	130	1,000	µg/kg		**1,150 J**	**1,370 J**	**2690 J**
PCB TEQ, nd SDL*0	--	--	µg/kg		**0.0756**	**0.0939**	**0.234**
PCB TEQ, nd SDL*0.5	--	--	µg/kg		**0.0767**	**0.0971**	**0.234**
PCB TEQ, nd SDL*1	--	--	µg/kg		**0.0779**	**0.1**	**0.234**
Dioxins and Furans (ng/kg)							
2,3,7,8-TCDD	--	--	ng/kg		< 0.468 U*	< 0.542 U*	**1.05**
1,2,3,7,8-PeCDD	--	--	ng/kg		< 2.22 U*	**3.3**	**3.96**
1,2,3,4,7,8-HxCDD	--	--	ng/kg		**3.94**	**4.09**	**5.9**
1,2,3,6,7,8-HxCDD	--	--	ng/kg		**8.89**	**11.2**	**12.8**
1,2,3,7,8,9-HxCDD	--	--	ng/kg		**7.79**	**10.8**	**11.3**
1,2,3,4,6,7,8-HpCDD	--	--	ng/kg		**175**	**212**	**289**
OCDD	--	--	ng/kg		**1490**	**2150**	**2750**
2,3,7,8-TCDF	--	--	ng/kg		**6.88**	**7.35**	**18.3**
1,2,3,7,8-PeCDF	--	--	ng/kg		**2.43 J**	**2.05 J**	**4.4**
2,3,4,7,8-PeCDF	--	--	ng/kg		**4.17**	**3.6**	**8.03**
1,2,3,4,7,8-HxCDF	--	--	ng/kg		**4.66**	**3.79**	**8.03**
1,2,3,6,7,8-HxCDF	--	--	ng/kg		**3.58**	**3.55**	**5.78**
1,2,3,7,8,9-HxCDF	--	--	ng/kg		**0.502 J**	**0.494 J**	**1.03 J**
2,3,4,6,7,8-HxCDF	--	--	ng/kg		**4.29**	**4**	**6.78**
1,2,3,4,6,7,8-HpCDF	--	--	ng/kg		**36.4**	**36.3**	**59.1**
1,2,3,4,7,8,9-HpCDF	--	--	ng/kg		**3.27**	**2.57**	**5.33**
OCDF	--	--	ng/kg		**69.1**	**57.4**	**130**
Dioxin/Furan TEQ, nd SDL*0	25	--	ng/kg		**7.99 J**	**12.1 J**	**18.9 J**
Dioxin/Furan TEQ, nd SDL*0.5	25	--	ng/kg		**9.33 J**	**12.4 J**	**18.9 J**
Dioxin/Furan TEQ, nd SDL*1	25	--	ng/kg		**10.7 J**	**12.7 J**	**18.9 J**

Table P-7. Solids Sample Results
Chemithon

Analyte	SMS Criteria SCO/ LAET[a]	SMS Criteria CSL/ 2LAET	Unit	Location ID: CC-A-01 Collection Date: 10/13/2014 Result	CC-CB-04 10/13/2014 Result	CC-CB-22 10/13/2014 Result
Total TCDD	--	--	ng/kg	**12 J**	**16.8 J**	**30.4 J**
Total TCDF	--	--	ng/kg	**77.9 J**	**80.3 J**	**155 J**
Total PeCDD	--	--	ng/kg	**24 J**	**34.8**	**48.3**
Total PeCDF	--	--	ng/kg	**59.8**	**63.4 J**	**115 J**
Total HxCDD	--	--	ng/kg	**98.7**	**131**	**148**
Total HxCDF	--	--	ng/kg	**59.4**	**63.5**	**100**
Total HpCDD	--	--	ng/kg	**353**	**446**	**635**
Total HpCDF	--	--	ng/kg	**80.1**	**78.7**	**144**
PAHs (µg/kg)						
1-Methylnaphthalene	--	--	µg/kg	**270**	**110 J**	**97 J**
2-Chloronaphthalene	--	--	µg/kg	< 35 U	< 170 U	< 170 U
2-Methylnaphthalene	670	1,400	µg/kg	**350**	**210**	**170**
Acenaphthene	500	730	µg/kg	**140**	**170**	**100 J**
Acenaphthylene	1,300	1,300	µg/kg	< 35 U	< 170 U	< 170 U
Anthracene	960	4,400	µg/kg	**90**	**91 J**	**95 J**
Benzo(a)anthracene	1,300	1,600	µg/kg	**330**	**190**	**600**
Benzo(a)pyrene	1,600	3,000	µg/kg	**340 J**	**330**	**670**
Benzo(g,h,i)perylene	670	720	µg/kg	**290 J**	**210**	**260**
Chrysene	1,400	2,800	µg/kg	**520**	**410**	**920**
Dibenz(a,h)anthracene	230	540	µg/kg	**94 J**	< 330 U	< 340 U
Dibenzofuran	540	700	µg/kg	**100 J**	< 840 U	**64 J**
Fluoranthene	1,700	2,500	µg/kg	**940**	b 830	**1,500**
Fluorene	540	1,000	µg/kg	**120**	130 J	**56 J**
Indeno(1,2,3-cd)pyrene	600	690	µg/kg	**270 J**	210 J	**250 J**
Naphthalene	2,100	2,400	µg/kg	**160**	< 170 U	**140 J**
Phenanthrene	1,500	5,400	µg/kg	**520**	**540**	**540**
Pyrene	2,600	3,300	µg/kg	**930**	**700**	**1,400**
Total Benzofluoranthenes	3,200	3,600	µg/kg	**940**	**750**	**1,700**
Total HPAHs	12,000	17,000	µg/kg	**4,700**	**3,600**	**7,300**
Total LPAHs	5,200	13,000	µg/kg	**1,000**	**930**	**930**
cPAHs, nd RL*0	1,000	--	µg/kg	**510**	**450**	**940**
cPAHs, nd RL*0.5	1,000	--	µg/kg	**510**	**470**	**960**
cPAHs, nd RL*1	1,000	--	µg/kg	**510**	**480**	**970**
Phthalates (µg/kg)						
bis(2-Ethylhexyl)phthalate	1,300	1,900	µg/kg	**16,000**	**9,500**	**1,800 J**
Butylbenzylphthalate	63	900	µg/kg	**780**	**420 J**	**640 J**
Di-n-Butylphthalate	1,400	5,100	µg/kg	**220 J**	< 4,200 U	< 4,300 U
Diethylphthalate	200	1,200	µg/kg	< 350 U	< 1,700 U	< 1,700 U
Dimethylphthalate	71	160	µg/kg	**290**	**150 J**	**86 J**
Di-n-Octyl phthalate	6,200	--	µg/kg	**1100 J**	**790 J**	< 4300 U
Phenols (µg/kg)						
2,4,5-Trichlorophenol	--	--	µg/kg	< 180 U	< 840 U	< 850 U
2,4,6-Trichlorophenol	--	--	µg/kg	< 260 U	< 1,300 U	< 1,300 U
2,4-Dichlorophenol	--	--	µg/kg	< 180 U	< 840 U	< 850 U
2,4-Dimethylphenol	29	29	µg/kg	< 180 U	< 840 U	< 850 U
2,4-Dinitrophenol	--	--	µg/kg	< 1,800 U	< 8,400 U	< 8,500 U
2-Chlorophenol	--	--	µg/kg	< 180 U	< 840 U	< 850 U
2-Methylphenol	63	63	µg/kg	< 180 U	< 840 U	< 850 U
2-Nitrophenol	--	--	µg/kg	< 180 U	< 840 U	< 850 U

Table P-7. Solids Sample Results
Chemithon

Analyte	SMS Criteria SCO/ LAET[a]	SMS Criteria CSL/ 2LAET	Unit	Location ID	CC-A-01		CC-CB-04		CC-CB-22	
				Collection Date	10/13/2014		10/13/2014		10/13/2014	
					Result		Result		Result	
4,6-Dinitro-2-Methylphenol	--	--	µg/kg		< 1,800	U	< 8,400	U	< 8,500	U
4-Chloro-3-methylphenol	--	--	µg/kg		< 180	U	< 840	U	< 850	U
4-Methylphenol	670	670	µg/kg		**78**	**J**	**130**	**J**	< 1,700	U
4-Nitrophenol	--	--	µg/kg		**560**	**J**	< 8,400	U	< 8,500	U
Pentachlorophenol	360	690	µg/kg		< 350	U	< 1,700	U	< 1,700	U
Phenol	420	1,200	µg/kg		**110**	**J**	**160**	**J**	**190**	**J**
Other SVOCs (µg/kg)										
1,2,4-Trichlorobenzene	31	51	µg/kg		< 88	U	< 420	U	< 430	U
1,2-Dichlorobenzene	35	50	µg/kg		< 96	U	< 460	U	< 470	U
1,3-Dichlorobenzene	--	--	µg/kg		< 88	U	< 420	U	< 430	U
1,4-Dichlorobenzene	110	120	µg/kg		< 88	U	< 420	U	< 430	U
2,4-Dinitrotoluene	--	--	µg/kg		**66**	**J**	< 840	U	< 850	U
2,6-Dinitrotoluene	--	--	µg/kg		< 180	U	< 840	U	< 850	U
2-Nitroaniline	--	--	µg/kg		< 180	U	< 840	U	< 850	U
3,3'-Dichlorobenzidine	--	--	µg/kg		< 350	U	< 1,700	U	< 1,700	U
3-Nitroaniline	--	--	µg/kg		< 180	U	< 840	U	< 850	U
4-Bromophenyl-phenylether	--	--	µg/kg		< 180	U	< 840	U	< 850	U
4-Chloroaniline	--	--	µg/kg		< 180	U	< 840	U	< 850	U
4-Chlorophenyl-phenylether	--	--	µg/kg		< 180	U	< 840	U	< 850	U
4-Nitroaniline	--	--	µg/kg		< 180	U	< 840	U	< 850	U
Benzoic Acid	650	650	µg/kg		< 4,400	U	< 21,000	U	< 21,000	U
Benzyl Alcohol	57	73	µg/kg		< 180	U	< 840	U	**180**	**J**
2,2'-Oxybis(1-Chloropropane)	--	--	µg/kg		< 410	U	< 2,100	U	< 2,100	U
bis(2-Chloroethoxy) Methane	--	--	µg/kg		< 180	U	< 840	U	< 850	U
Bis-(2-Chloroethyl) Ether	--	--	µg/kg		< 180	U	< 840	U	< 850	U
Carbazole	--	--	µg/kg		**110**	**J**	**130**	**J**	**170**	**J**
Hexachlorobenzene	22	70	µg/kg		< 88	U	< 420	U	< 430	U
Hexachlorobutadiene	11	120	µg/kg		< 88	U	< 420	U	< 430	U
Hexachlorocyclopentadiene	--	--	µg/kg		< 180	U	< 840	U	< 850	U
Hexachloroethane	--	--	µg/kg		< 180	U	< 840	U	< 850	U
Isophorone	--	--	µg/kg		< 180	U	< 840	U	< 850	U
Nitrobenzene	--	--	µg/kg		< 180	U	< 840	U	< 850	U
N-Nitrosodimethylamine	--	--	µg/kg		< 1,800	U	< 8,400	U	< 8,500	U
N-Nitroso-Di-N-Propylamine	--	--	µg/kg		< 180	U	< 840	U	< 850	U
N-Nitrosodiphenylamine	28	40	µg/kg		< 88	U	< 420	U	< 430	U
VOCs (µg/kg)										
1,1,1,2-Tetrachloroethane	--	--	µg/kg		na		< 1.3	U	na	
1,1,1-Trichloroethane	--	--	µg/kg		na		< 1.3	U	na	
1,1,2,2-Tetrachloroethane	--	--	µg/kg		na		< 2.6	U	na	
1,1,2-Trichloro-1,2,2-trifluoroethane	--	--	µg/kg		na		< 1.3	U	na	
1,1,2-Trichloroethane	--	--	µg/kg		na		< 2.6	U	na	
1,1-Dichloroethane	--	--	µg/kg		na		< 1.3	U	na	
1,1-Dichloroethene	--	--	µg/kg		na		< 6.6	U	na	
1,1-Dichloropropene	--	--	µg/kg		na		< 1.3	U	na	
1,2,3-Trichlorobenzene	--	--	µg/kg		na		**2.7**	**J**	na	
1,2,3-Trichloropropane	--	--	µg/kg		na		< 1.3	U	na	
1,2,4-Trimethylbenzene	--	--	µg/kg		na		**6.2**	**J**	na	
1,2-Dibromo-3-chloropropane	--	--	µg/kg		na		< 2.6	U	na	
1,2-Dibromoethane	--	--	µg/kg		na		< 1.3	U	na	
1,2-Dichloroethane	--	--	µg/kg		na		< 1.3	U	na	

Table P-7. Solids Sample Results
Chemithon

Analyte	SMS Criteria SCO/ LAET[a]	SMS Criteria CSL/ 2LAET	Unit	Location ID / Collection Date	CC-A-01 10/13/2014 Result	CC-CB-04 10/13/2014 Result	CC-CB-22 10/13/2014 Result
1,2-Dichloropropane	--	--	µg/kg		na	< 1.3 U	na
1,3,5-Trimethylbenzene	--	--	µg/kg		na	**3.6 J**	na
1,3-Dichloropropane	--	--	µg/kg		na	< 2.6 U	na
2,2-Dichloropropane	--	--	µg/kg		na	< 6.6 U	na
2-Chloroethylvinylether	--	--	µg/kg		na	< 6.6 U	na
2-Chlorotoluene	--	--	µg/kg		na	< 2.6 U	na
2-Hexanone	--	--	µg/kg		na	< 6.6 U	na
4-Chlorotoluene	--	--	µg/kg		na	< 2.6 U	na
Acetone	--	--	µg/kg		na	**460 J**	na
Acrolein	--	--	µg/kg		na	< 40 U	na
Acrylonitrile	--	--	µg/kg		na	< 13 U	na
Benzene	--	--	µg/kg		na	**0.62 J**	na
Bromobenzene	--	--	µg/kg		na	< 2.6 U	na
Bromochloromethane	--	--	µg/kg		na	< 2.6 U	na
Bromoform	--	--	µg/kg		na	< 1.3 U	na
Bromomethane	--	--	µg/kg		na	< 1.3 U	na
Carbon Disulfide	--	--	µg/kg		na	**12 J**	na
Carbon Tetrachloride	--	--	µg/kg		na	< 1.3 U	na
Chlorobenzene	--	--	µg/kg		na	< 1.3 U	na
Dibromochloromethane	--	--	µg/kg		na	< 1.3 U	na
Chloroethane	--	--	µg/kg		na	< 1.3 U	na
Chloroform	--	--	µg/kg		na	< 1.3 U	na
Chloromethane	--	--	µg/kg		na	< 1.3 U	na
cis-1,2-Dichloroethene	--	--	µg/kg		na	< 1.3 U	na
cis-1,3-Dichloropropene	--	--	µg/kg		na	< 1.3 U	na
Dibromomethane	--	--	µg/kg		na	< 1.3 U	na
Bromodichloromethane	--	--	µg/kg		na	< 1.3 U	na
Dichlorodifluoromethane	--	--	µg/kg		na	< 1.3 U	na
Ethylbenzene	--	--	µg/kg		na	**4.6 J**	na
Isopropylbenzene	--	--	µg/kg		na	**1.5 J**	na
m,p-Xylene	--	--	µg/kg		na	**14 J**	na
2-Butanone	--	--	µg/kg		na	**140 J**	na
Iodomethane	--	--	µg/kg		na	< 20 U	na
4-Methyl-2-Pentanone (MIBK)	--	--	µg/kg		na	**12 J**	na
Methyl tert-Butyl Ether	--	--	µg/kg		na	< 1.3 U	na
Methylene Chloride	--	--	µg/kg		na	< 20 U	na
n-Butylbenzene	--	--	µg/kg		na	< 1.6 U	na
n-Propylbenzene	--	--	µg/kg		na	**1.2 J**	na
o-Xylene	--	--	µg/kg		na	**14 J**	na
4-Isopropyltoluene	--	--	µg/kg		na	**1.1 J**	na
sec-Butylbenzene	--	--	µg/kg		na	**1.4 J**	na
Styrene	--	--	µg/kg		na	< 2.6 U	na
tert-Butylbenzene	--	--	µg/kg		na	< 1.2 U	na
Tetrachloroethene	--	--	µg/kg		na	< 1.3 U	na
Toluene	--	--	µg/kg		na	**7.9 J**	na
Total Xylenes	--	--	µg/kg		na	**28 J**	na
trans-1,2-Dichloroethene	--	--	µg/kg		na	< 1.3 U	na
trans-1,3-Dichloropropene	--	--	µg/kg		na	< 1.3 U	na
trans-1,4-Dichloro-2-butene	--	--	µg/kg		na	< 6.6 U	na
Trichloroethene	--	--	µg/kg		na	< 1.3 U	na

Table P-7. Solids Sample Results
Chemithon

Location ID				CC-A-01	CC-CB-04	CC-CB-22
Collection Date				10/13/2014	10/13/2014	10/13/2014
Analyte	SMS Criteria SCO/ LAET[a]	SMS Criteria CSL/ 2LAET	Unit	Result	Result	Result
Trichlorofluoromethane	--	--	µg/kg	na	< 1.3 U	na
Vinyl Acetate	--	--	µg/kg	na	< 6.6 U	na
Vinyl Chloride	--	--	µg/kg	na	< 1.3 U	na
TPH (mg/kg)						
Gasoline-Range Hydrocarbons	30/100	--	mg/kg	na	**19**	na
Diesel-Range Hydrocarbons	2,000	--	mg/kg	**2,600 J**	**840 J**	**410 J**
Motor Oil-Range Hydrocarbons	2,000	--	mg/kg	**10,000 J**	**5,400 J**	**1,900 J**
Grain size (%)						
Clay	--	--	%	na	0.70	1.3
Silt	--	--	%	na	17	49
Sand	--	--	%	na	75	45
Gravel	--	--	%	na	7.2	5.0
Cobbles	--	--	%	na	0.0	0.0
Conventionals (%)						
Total Organic Carbon	--	--	%	na	6.9	7.6
Total Solids	--	--	%	57.0	59.7	57.4

a - LDW RALs are presented for cPAHs and dioxin/furan TEQs. MTCA Method A cleanup levels for soil are presented for TPH.

b - Total PCB congeners and PCB/dioxin/furan TEQs include only congeners that met identification criteria as required by EPA Method1668C (PCBs) or EPA Method 1613B (dioxins/furans).

PCB and dioxin/furan congeners identified with a U* qualifier were tagged as "estimated maximum possible concentrations" by the laboratory. This was changed to non-detect (U) during data validation.

Petroleum hydrocarbon results are compared to MTCA Method A cleanup levels. Two cleanup levels are available for TPH-Gasoline under MTCA Method A. The more stringent value (30 mg/kg) is applied for facilities where benzene has been detected.

Results in **bold** are detections.

Results shaded in gray exceed one or more criteria.

Table P-8. Solids Sample Results Compared to Dry Weight Criteria
Chemithon

Location ID	CC-A-01		CC-CB-04		CC-CB-22	
Collection Date	10/13/2014		10/13/2014		10/13/2014	
Analyte	Exceedance Factor		Exceedance Factor		Exceedance Factor	
	SCO/ LAET	CSL/ 2LAET	SCO/ LAET	CSL/ 2LAET	SCO/ LAET	CSL/ 2LAET
Metals (Total)						
Arsenic	3.0	1.8				
Chromium	15	14	33	32	1.5	1.4
Copper	1.4	1.4	1.1	1.1	1.4	1.4
Zinc	3.2	1.4	2.3		2.7	1.1
PCBs						
Total PCB Aroclors	12	1.6	3.3		7.7	
Total PCB Congeners	8.8	1.2	11	1.4	21	2.7
Phthalates						
bis(2-Ethylhexyl)phthalate	12	8.4	7.3	5.0	1.4	
Butylbenzylphthalate	12		6.7		10	
Dimethylphthalate	4.1	1.8	2.1		1.2	
Other SVOCs						
Benzyl Alcohol					3.2	2.5
TPH						
Diesel-Range Hydrocarbons	1.3					
Motor Oil-Range Hydrocarbons	5.0		2.7			

Exceedance factors are presented for detected concentrations that exceed the SMS/AET criteria, LDW RALs (dioxins/furans and cPAHs), or MTCA Method A cleanup levels for soil (TPH).

The exceedance factors are calculated (result divided by criterion) and have no regulatory relevance. They provide an indication of the general magnitude of the concentration relative to the identified criterion.

Table P-9. Solids Sample Results - PCB Congeners
Chemithon

Location ID	CC-A-01		CC-CB-04		CC-CB-22	
Collection Date	**10/13/2014**		**10/13/2014**		**10/13/2014**	
Analyte	**Result**		**Result**		**Result**	
Total PCB Congeners (ng/kg)[a]	1,150,000	J	1,370,000	J	2,690,000	J
Total Monochlorobiphenyl (ng/kg)[a]	112	J	212	J	228	
PCB-1	83.1		84.1		79.0	
PCB-2	29.1	J	42.0	J	54.9	
PCB-3	< 62.0	U*	86.3		94.4	
Total Dichlorobiphenyl (ng/kg)[a]	1,900	J	3,500	J	3,960	J
PCB-4/10	< 124	U*	149	J	135	J
PCB-5/8	351		538		371	
PCB-6	< 70.2	U*	< 93.4	U*	80.2	J
PCB-7/9	< 85.0	U	< 71.1	U	< 49.6	U*
PCB-11	1,210		2,360		2,760	
PCB-12/13	< 79.6	U	< 69.3	U	67.2	J
PCB-14	< 85.8	U	< 74.6	U	< 93.5	U
PCB-15	341		448		546	
Total Trichlorobiphenyl (ng/kg)[a]	4,220	J	5,510	J	4,680	J
PCB-16/32	426		457		422	
PCB-17	157		239		193	
PCB-18	639		699		674	
PCB-19	75.6		65.1		104	
PCB-20/21/33	479		707		478	
PCB-22	275		389		284	
PCB-23	< 16.4	U	< 15.9	U	< 23.7	U
PCB-24/27	52.4	J	53.5	J	62.5	J
PCB-25	61.3		94.8		55.0	
PCB-26	125		205		166	
PCB-28	536		757		491	
PCB-29	< 19.4	U	24.3	J	10.2	J
PCB-30	< 8.77	U	< 8.70	U	< 6.64	U
PCB-31	803		1,040		755	
PCB-34	< 18.4	U	< 17.9	U	< 26.6	U
PCB-35	85.0		125		170	
PCB-36	< 18.3	U	< 25.4	U	58.7	
PCB-37	479		651		721	
PCB-38	23.7	J	< 24.3	U*	37.7	J
PCB-39	< 18.7	U	< 26.0	U	< 32.3	U
Total Tetrachlorobiphenyl (ng/kg)[a]	66,300	J	105,000	J	113,000	J
PCB-40	624		704		1,010	
PCB-41/64/71/72	3,780		5,130		5,870	
PCB-42/59	717		897		1,020	
PCB-43/49	4,170		6,870		7,360	
PCB-44	9,710		13,400		15,600	
PCB-45	238		293		443	
PCB-46	91.7		143		224	
PCB-47	552		773		864	
PCB-48/75	342		457		440	
PCB-50	< 26.3	U	< 34.2	U	6.35	J
PCB-51	89.7		110		147	
PCB-52/69	17,700		29,000		36,200	
PCB-53	399		607		1,040	
PCB-54	< 21.0	U	< 27.3	U	7.35	J
PCB-55	283		413		718	
PCB-56/60	2,360		3,780		3,280	

Table P-9. Solids Sample Results - PCB Congeners
Chemithon

Location ID	CC-A-01		CC-CB-04		CC-CB-22	
Collection Date	10/13/2014		10/13/2014		10/13/2014	
Analyte	Result		Result		Result	
PCB-57	< 15.6	U*	34.4	J	< 38.4	U
PCB-58	< 23.9	U	16.2	J	< 40.6	U
PCB-61/70	15,900		28,200		22,000	
PCB-62	< 23.8	U	< 30.3	U	< 40.7	U
PCB-63	178		293		237	
PCB-65	< 23.7	U	< 30.2	U	< 40.6	U
PCB-67	71.0		113		112	
PCB-68	24.8	J	31.3	J	< 36.9	U
PCB-73	< 20.2	U	< 30.6	U	< 38.6	U
PCB-74	2,560		4,630		3,600	
PCB-76/66	3,980		6,430		5,540	
PCB-77	1,690		2,040		4,990	
PCB-78	< 21.2	U	< 31.0	U	< 37.2	U
PCB-79	523		834		1,410	
PCB-80	< 18.6	U	< 24.4	U	< 31.6	U
PCB-81	352		276		583	
Total Pentachlorobiphenyl (ng/kg)[a]	372,000		562,000	J	897,000	J
PCB-82	6,600		9,840		15,700	
PCB-83	< 14.6	U	< 22.7	U	< 11.7	U
PCB-84/92	24,400		35,200		65,800	
PCB-85/116	7,540		12,500		17,500	
PCB-86	< 26.4	U	171		< 21.1	U
PCB-87/117/125	22,900		36,500		51,800	
PCB-88/91	6,210		9,260		18,000	
PCB-89	245		362		619	
PCB-90/101	66,100		98,900		161,000	
PCB-93	< 25.0	U	< 33.5	U	< 20.9	U
PCB-94	166		240		478	
PCB-95/98/102	47,900		65,200		132,000	
PCB-96	< 15.4	U	< 20.3	U	672	
PCB-97	17,400		27,900		42,000	
PCB-99	16,400		27,200		42,100	
PCB-100	91.0		< 95.2	U*	210	
PCB-103	237		355		586	
PCB-104	< 14.8	U	< 19.5	U	< 10.7	U
PCB-105	20,600		31,000		40,900	
PCB-106/118	51,800		84,400		107,000	
PCB-107/109	3,360		4,810		7,290	
PCB-108/112	2,670		3,940		6,680	
PCB-110	70,100		103,000		169,000	J
PCB-111/115	855		1,450		2,350	
PCB-113	< 14.5	U	< 20.0	U	< 12.1	U
PCB-114	1,410		1,970		2,680	
PCB-119	704		1,220		1,860	
PCB-120	190		220		571	
PCB-121	< 13.0	U	< 17.5	U	< 10.9	U
PCB-122	630		926		1,470	
PCB-123	689		1,050		1,470	
PCB-124	2,470		3,420		5,430	
PCB-126	726		895		2,240	
PCB-127	< 97.5	U	< 84.9	U	< 93.5	U

Table P-9. Solids Sample Results - PCB Congeners
Chemithon

Location ID	CC-A-01		CC-CB-04		CC-CB-22	
Collection Date	10/13/2014		10/13/2014		10/13/2014	
Analyte	Result		Result		Result	
Total Hexachlorobiphenyl (ng/kg)[a]	411,000	J	447,000	J	1,010,000	J
PCB-128/162	13,000		16,800		34,200	
PCB-129	5,460		6,470		13,000	
PCB-130	5,720		6,950		16,100	
PCB-131	< 57.1	U	< 24.7	U*	< 190	U
PCB-132/161	26,100		31,400		61,600	
PCB-133/142	2,910		3,490		7,480	
PCB-134/143	5,110		6,160		13,200	
PCB-135	10,700		11,300		30,300	
PCB-136	10,100		10,700		30,200	
PCB-137	4,940		6,070		11,200	
PCB-138/163/164	95,200		99,700		216,000	
PCB-139/149	70,500		78,300		199,000	J
PCB-140	371		473		1,150	
PCB-141	21,500		20,400		47,400	
PCB-144	4,150		5,170		12,700	
PCB-145	23.0	J	40.4	J	80.4	
PCB-146/165	10,500		11,500		25,200	
PCB-147	1,380		1,800		4,370	
PCB-148	< 22.1	U	< 21.9	U	< 14.6	U
PCB-150	102		115		290	
PCB-151	20,300		20,200		55,800	
PCB-152	70.4		89.9		211	
PCB-153	75,500		78,600		170,000	J
PCB-154	503		738		1,750	
PCB-155	< 14.8	U	< 14.7	U	< 9.74	U
PCB-156	9,300		11,100		19,500	
PCB-157	1,820		2,280		4,620	
PCB-158/160	11,800		12,900		27,000	
PCB-159	< 46.1	U	< 195	U	< 316	U
PCB-166	371		488		944	
PCB-167	3,480		4,050		8,580	
PCB-168	< 58.1	U*	96.8		211	
PCB-169	< 76.4	U	< 216	U	125	
Total Heptachlorobiphenyl (ng/kg)[a]	225,000	J	186,000	J	508,000	J
PCB-170	25,400		19,900		53,600	
PCB-171	6,140		5,200		13,700	
PCB-172	3,750		3,180		8,760	
PCB-173	686		551		1,550	
PCB-174	29,000		24,200		65,300	
PCB-175	1,000		908		2,820	
PCB-176	3,350		2,680		8,300	
PCB-177	15,700		13,800		37,500	
PCB-178	5,400		4,240		13,800	
PCB-179	12,500		10,200		31,900	
PCB-180	66,000		56,000		138,000	
PCB-181	< 53.1	U	< 28.3	U	< 73.4	U
PCB-182/187	30,100		24,100		71,400	
PCB-183	13,800		11,000		33,400	
PCB-184	27.1	J	20.8	J	41.0	J
PCB-185	2,700		2,410		5,760	
PCB-186	< 9.50	U	< 17.0	U	< 38.7	U

Table P-9. Solids Sample Results - PCB Congeners
Chemithon

Location ID	CC-A-01	CC-CB-04	CC-CB-22
Collection Date	**10/13/2014**	**10/13/2014**	**10/13/2014**
Analyte	**Result**	**Result**	**Result**
PCB-188	38.9 J	50.5	77.4
PCB-189	826	822	2,250
PCB-190	4,910	3,820	10,900
PCB-191	1,060	900	2,300
PCB-192	< 13.1 U	< 22.4 U	< 58.2 U
PCB-193	2,910	2,390	6,400
Total Octachlorobiphenyl (ng/kg)[a]	60,500	48,000	138,000
PCB-194	14,000	11,800	36,200
PCB-195	5,490	4,310	14,600
PCB-196/203	17,000	12,800	35,600
PCB-197	618	394	1,340
PCB-198	807	411	1,310
PCB-199	14,900	11,900	32,600
PCB-200	2,000	1,530	4,210
PCB-201	2,020	1,610	4,340
PCB-202	3,060	2,820	6,130
PCB-204	< 24.0 U	< 26.9 U	< 13.1 U
PCB-205	626	455	1,710
Total Nonachlorobiphenyl (ng/kg)[a]	5,290	6,350	9,460
PCB-206	3,890	4,330	6,990
PCB-207	491	652	963
PCB-208	906	1,370	1,510
Decachlorobiphenyl (ng/kg)	306	381	370
PCB-209	306	381	370
PCB TEQ, nd SDL*0	75.6	93.9	234
PCB TEQ, nd SDL*0.5	76.7	97.1	234
PCB TEQ, nd SDL*1	77.9	100	234

a - Total PCBs and total PCB homologs include only congeners that met identification criteria as required by EPA Method1668C.

PCB congeners identified with a U* qualifier were tagged as "estimated maximum possible concentrations" by the laboratory. This was changed to non-detect (U) during data validation.

Attachment P-1
Inspection Photographic Log

Conveyance Structure Information	
Structure Identification Number: CC-A-01	**N↓** 
Structure Type: Sump/Vault	
General Location: Southeast corner of facility	
Characteristics: 10’ to bottom of structure, 8’ depth to water, <1” depth of sediment	
Pump Capacity (gpm): --	
Design Storm: --	
Access: Grate	
Volume Gauge: --	
Sample ID: CC-A-01-20141013-S	
Drainage Information:	
The location A-01 is a sump/vault in the southeast corner of the property. The vault receives stormwater from all areas that drain the north and eastern portion of the facility. Stormwater is conveyed from the vault to two large storage vaults located underneath the Lafarge property to the east. The downstream storage vaults are used to prevent tidally influenced river water from entering the sump at Chemithon. Stormwater is conveyed from the downstream vaults and discharges to the LDW via a 30” outfall.	**N↙** 

Conveyance Structure Information	
Structure Identification Number: CB-04	**N↙** 
Structure Type: Manhole	
General Location: Centrally located at facility	
Characteristics: 6’ to bottom of structure, 4’ to depth of water, 6” of sediment	
Pump Capacity (gpm): --	
Design Storm: --	
Access: Manhole Cover	
Volume Gauge: --	
Sample ID: CC-CB-04-20141013-S	
Drainage Information:	
The location CB-04 is a manhole upstream of the vault A-01. Stormwater from the western and central portion of the facility is conveyed to CB-04. Catch basin CB-04 also receives stormwater from a catch basin in the loading dock area where a covered dumpster is stored. A drainage line depicted on the facility map that enters CB-04 at the northwest corner could not be confirmed.	**N←** 

Conveyance Structure Information	
Structure Identification Number: CB-18, CB-20, CB-21, CB-22	**N↓**
Structure Type: Catch Basin and Manholes	
General Location: Northeastern area of facility	
Characteristics: Between 2 to 4’ to bottom of structure, 1 to 3’ depth to water, 1 to 6” depth of sediment	
Pump Capacity (gpm): --	
Design Storm: --	
Access: Manhole cover	
Volume Gauge: --	
Sample ID: CC-CB-22-20141013-S	 CB-20
Drainage Information:	
Solids material was collected as a composite sample from four catch basins located at the north east portion of the facility. The four catch basins where the solids sample was collected from include CB-18, CB-20, CB-21, and CB-22. All four catch basins drain to the same drainage line that conveys stormwater south to A-01. The catch basins are located in the employee parking area and the manufacturing building.	**N↑**  CB-21

Conveyance Structure Information	
Structure Identification Number: CB-18, CB-20, CB-21, CB-22	**N↑**
Structure Type: Catch Basin and Manholes	
General Location: Northeastern area of facility	
Characteristics: Between 2 to 4’ to bottom of structure, 1 to 3’ depth to water, 1 to 6” depth of sediment	
Pump Capacity (gpm): --	
Design Storm: --	
Access: Manhole cover	
Volume Gauge: --	
Sample ID: CC-CB-22-20141013-S	 CB-22
Drainage Information:	
A solids sample was collected as a composite sample from four catch basins located at the north east portion of the facility. The four catch basins where the solids sample was collected from include CB-18, CB-20, CB-21, and CB-22. All four catch basins drain to the same drainage line that conveys stormwater south to A-01. The catch basins are located in the employee parking area and the manufacturing building.	

Attachment P-2
Field Documentation

Location Chemithon

Project / Client NPDES/Ecology

Date 10/13/14

0650 M. Ivancevich stops to purchase ice while en route to storage unit

0700 M. Ivancevich arrives at storage unit/field office; begins prepping sampling equipment for field event

0910 M. Ivancevich departs field office.

0925 Leidos onsite @ Chemithon. Mahbub Alam/ECology also onsite.

0930 Leidos & Ecology review SWPP maps.

0940 Met with Brian & Tony with Chemithon; Brian described site.

1000 Tony begins site walk with Leidos & Ecology.
- CB 2 flows to CB3.
- CB 20 plugged on West side
- Potential sample locations:
  1. CB4 - solids
  2. CB 22 - solids
  3. Outfall - solids & water (A-1)

1050 C. Wilson onsite.

1105 Begin setup at A-1 for solids & water sampling. Duplicate water sample to be collected at A-1.

Location Chemithon

Project / Client NPDES/Ecology

Date 10/13/14

Water sample ID: CC-A-01-20141013-W
Dup sample ID: CC-FD-02-20141013-W
Solids sample ID: CC-A-01-20141013-S

1152 CNancarrow offsite

1145 Began water sample collection.

1205 Completed water sample, began solids ~~collected~~ MAI 10/13/14 collection @ 1215
- Not enough material to run full analysis; prioritizing PCB congeners ~~& Dioxins/Furans~~ MAI 10/13/14
- Sheen observed when scraping bottom during solids collection

1230 Completed solids sampling @ A-1; moved to CB-4.

1235 Probbed CB-4 - only 2 inlets, 1 outlet.

1240 Lunch break.

1255 Deconning equipment.

~~1240~~ 1320 MAI 10/13/14 Began solids collection at CB-4.

1340 Sample ID: CC-CB-04-20141013-S
Completed sampling @ CB-4. Moved to CB-22 to collect a solids sample.

see next page

Location Chemithon

Project / Client NPDES/Ecology

Date 10/13/14

~~1345~~ 1330 Investigated line from CB-5 to CB-24, unable to determine connection.

1345 Not enough sampleable material @ CB-22. Investigated CB-20 & CB-21 (CB-20 flows to CB-21, CB-21 flows to CB-22). Will do a composite sample of solids in outlet pipes of CB-20 & CB-21 as well as solids from CB-22 & CB-18.

1410 Began collecting composite sample. ID: CC-CB-22-20141013-S.

1440 Completed sampling. Began packing up sampling equipment

1455 Checked out at Chemithon's main office.

1500 Leidos & Ecology offsite, mobbed to field office.

1515 Leidos @ field office - unloading sampling supplies & preparing samples for shipment.

1535 M. Ivancevich offsite to return water quality meter & sampling van

1701 C. Wilson offsite to deliver samples to FedEx

Location Field office

Project / Client NPDES/Ecology

Date 10/14/14

0700 M. Ivancevich onsite at field office to pick up TA coolers.

0705 M. Ivancevich departs field office.

0735 M. Ivancevich arrives at Bothell office; replaces ice in TA coolers.

0830 TA coolers ready for pickup.

MJM 10/14/14

leidos

Sediment Collection Form

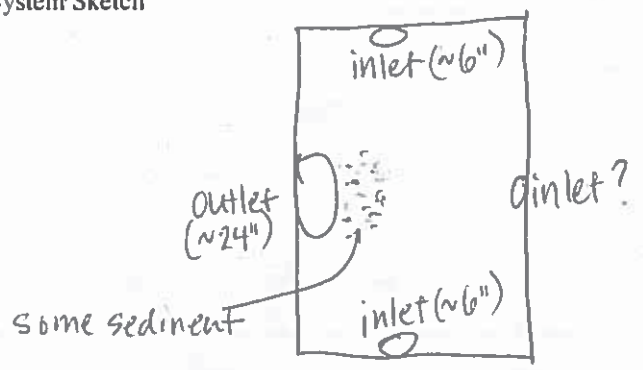
Project: NPDES Sampling Support **Location ID:** A-01

Facility Name: Chemithon **Sample ID:** CC-A-01-20141013-S

Sampled By: MI & CW **Date:** 10 / 13 / 2014 **Time:** ~~10AM~~ 1145 10/13/14

Structure Type:	Dimensions:	Standing Water:	Flow:
Vault/Sump	W 4' L 6'	(Y) / N	Y / (N)

Conveyance System Sketch ↑N



Depth to Bottom:	Depth to Water:	Depth of Sediment:	Sampled: (Y) / N
10 ft	8 ft	< 1 in	Discrete / (Composite) *(circle one)*

Sediment type:	*Sediment color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	
Gravel	Brown	Slight	
Sand C M F	Brown surface	(Moderate)	
Silt/clay	Gray	~~Strong~~	
(Organic matter)	(Black)	Overwhelming	Photo ID(s):
Debris	Tan	H_2S	
		(Petroleum)	GPS ID:

NOTES: approx 2 ft of water

Recorded By/Date: MI 10/13/14 **Reviewed By/Date:** CW 5/4/15

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Sediment Collection Form

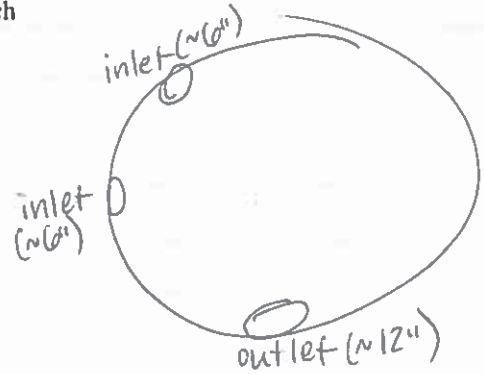
Project: NPDES Sampling Support **Location ID:** CB-4

Facility Name: Chemithon **Sample ID:** CC-CB-04-20141013-S

Sampled By: MI & CW **Date:** 10 / 13 / 2014 **Time:** 1320

Structure Type: MH	Dimensions: W_____ L_____ Standard	Standing Water: Y / N	Flow: Y / N

Conveyance System Sketch ↑N



Depth to Bottom: 6 ft	Depth to Water: 4 ft	Depth of Sediment: 6 in	Sampled: Y / N Discrete / Composite (circle one)
Sediment type:	***Sediment color:***	***Sediment Odor:***	***Comments:***
Cobble Gravel Sand C M F Silt/clay Organic matter Debris	Drab olive Brown Brown surface Gray Black Tan	None Slight Moderate Strong Overwhelming H_2S Petroleum	Photo ID(s): _____ GPS ID: _____

NOTES: sheen in water

Recorded By/Date: MI 10/13/14 **Reviewed By/Date:** CW 5/4/15

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Sediment Collection Form

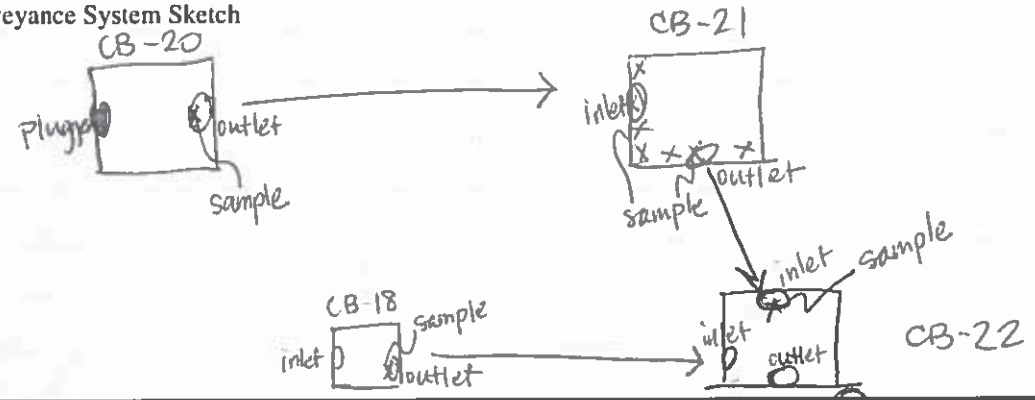
Project: NPDES Sampling Support **Location ID:** CB-22

Facility Name: Chemithon **Sample ID:** CC-CB-22-20141013-S

Sampled By: MI & CW **Date:** 10 / 13 / 2014 **Time:** 1410

Structure Type:	Dimensions: W_____L_____	Standing Water: Y / N	Flow: Y / N

Conveyance System Sketch



Depth to Bottom: 4 ft	Depth to Water: 3 ft	Depth of Sediment: _____ in	Sampled: Y / N Discrete / Composite *(circle one)*

Sediment type:	*Sediment color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	
Gravel	Brown	Slight	
Sand C M F	Brown surface	Moderate	
Silt/clay	Gray	Strong	
Organic matter	Black	Overwhelming	Photo ID(s): _____
Debris	Tan	H_2S	
		Petroleum	GPS ID: _____

NOTES: Sheen observed X = sample location

Recorded By/Date: MI 10/13/14 **Reviewed By/Date:** CW 5/4/15

Version2 -030311

leidos

SURFACE WATER SAMPLING FORM

Client: Department of Ecology **Site:** Chemithan **Job #:** 309382

Sample ID	TIME	DATE	Flow	pH	Electrical Conductivity	Temp (°C)	Total Dissolved Solids	Dissolved Oxygen (g/L)	Turbidity (NTU)	Oil & Grease (visible?)	COMMENTS
CC-A-01-20141013-W	1203	10/13/14	None	7.1	0.207 ☑ S/cm	17.8	--	9.44	17.6	NO	slight yellow tinge salinity=0 ; ORP=259 mV
~~CC-FD-02-20141013-W~~		~~10/13/14~~	MA	10/13/14	☐ S/cm						
					☐ S/cm						
					☐ S/cm						
					☐ S/cm						
					☐ S/cm						
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					☐ S/cm						
					☐ S/cm						
					☐ S/cm						

Sample Date: 10/ 13 /2014

Attachment P-3
Chain of Custody Forms

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424
phone 253.922.2310 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☑ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Christine Nancarrow	Site Contact: Melissa Ivancevich	Date: 10/13/14	COC No:
Leidos	Tel/Fax: 206.300.2144	Lab Contact: Kris Allen	Carrier: Courier	1 of 2 COCs
18912 N Creek Pkwy, Ste. 101	Analysis Turnaround Time			Sampler:
Bothell, WA 98011	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
425.398.2101 Phone	TAT if different from Below 3 Weeks			Walk-in Client:
425.485.5566 FAX	☐ 2 weeks			Lab Sampling:
Project Name: NPDES Sampling Support	☐ 1 week			Job / SDG No.:
Site: Lower Duwamish Waterway	☐ 2 days			
P O # P010163427	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	SVOCs (Method 8270D)	Metals (Method 200.8/7470A)	pH (Method SM4500H)	Spec Cond (Method 120.1)	Alk/Bicarb/Carb (Method SM2320)	Anions (Method 300.0/353.2)	TOC (Method SM5310B)	DOC (Method SM5310B)	TSS (Method 2540D)	Sample Specific Notes:
CC-A-01-20141013-W	10/13/14	1145	G	W	8	N		2	1		2			1	1	1	
CC-FD-02-20141013-W	10/13/14	1145	G	W	8	N		2	1		2			1	1	1	
									4					3			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other MeOH

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 242409 | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Melissa Ivancevich	Leidos	10/14/14 08:30			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
phone 253.922.2310 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☑ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Christine Nancarrow	Site Contact: Melissa Ivancevich	Date:	COC No:
Leidos	Tel/Fax: 206.300.2144	Lab Contact: Kris Allen	Carrier: Courier	2 of 2 COCs
18912 N Creek Pkwy, Ste. 101	Analysis Turnaround Time			Sampler:
Bothell, WA 98011	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
425.398.2101 Phone	TAT if different from Below 3 Weeks			Walk-in Client:
425.485.5566 FAX	☐ 2 weeks			Lab Sampling:
Project Name: NPDES Sampling Support	☐ 1 week			
Site: Lower Duwamish Waterway	☐ 2 days			Job / SDG No.:
P O # P010163427	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCB Aroclors (Method 8082)	SVOC (Method 8270D/8270D-SIM)	TPH-Diesel (NWTPH-Dx)	Metals (Method 6020/7471A)	Total Solids (Method SM2540B)	TPH-Gasoline (NWTPH-Gx)	VOCs (EPA 8260B)	TOC (Plumb1981/9060)	Particle Size (PSEP_Plumb1981)	Sample Specific Notes:
~~CC-A-01-20141013-S~~ CW 10/13/14				Sed	CW 10/13/14												
CC-A-01-20141013-S	10/13/14	1215	G	Sed	1					1							
CC-CB-04-20141013-S	10/13/14	1320	G	Sed	~~76~~					1			1	2	1	1	
CC-CB-22-20141013-S	10/13/14	1410	G	Sed	3					1					1	1	

10/13/14

CW 10/13/14

6

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other MeOH

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: For Sample CC-A-01-20141013-S, Please prioritize ① PCB Aroclors ② Metals ③ SVOCs ④ Total Solids ⑤ TPH-diesel if volume requirements are an issue.

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 242404		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by: Melissa Ivancevich	Company: Leidos	Date/Time: 10/14/14 0830	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Vista

CHAIN OF CUSTODY

FOR LABORATORY USE ONLY

Storage Secured

Laboratory Project ID:_____ Yes ☐ No ☐

Storage ID_____ Temp _____°°C

TAT: (Check One):

Standard: ○ 21 Days

Rush (surcharge may apply):

○ 14 days ○ 7 days Specify:___

Project I.D.:_____ P.O.#_____ Sampler:_____ (Name)

Invoice to: Name Company Address City State Zip Ph# Fax#

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

See "Sample Log-in Checklist" for additional sample information

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 • Fax (916) 673-0106

ATTN: Sample Receiving

Method of Shipment: Fed Ex Priority

Tracking No.: 0645979049 06

Add Analysis(es) Requested

Sample ID	Date	Time	Location/Sample Description	Container(s) Quantity	Type	Matrix	EPA1613 2378-TCDD	EPA1613 2378-TCDD/TCDF	EPA8290 PCDD/PCDF	EPA8290 2378-TCDD	EPA8290 2378-TCDD/TCDF	EPA8280 PCDD/PCDF	EPA8280 2378-TCDD	EPA8280 2378-TCDD/TCDF	EPA8280 PCDD/PCDF	EPA1668 TOTALS	EPA1668 COPLANAR PCB's	EPA1668 209 CONGENERS	EPA1614 PBDE	CARB429 PAH	CARB429 WHO-29
CC-A-01-Surface-W				4	A	EF		✓								✓	✓	✓			
CC-A-01-Surface-W				4	A	AQ		✓								✓	✓				
CC-A-01-Surface-S			Sediment	1	G	SD		✓								✓	✓				
CC-CC-01-Surface-S			Composite/Sediment	1	G	SD		✓								✓	✓				
CC-CC-01-Surface-S			Composite/Core Sediment	1	G	SD		✓								✓	✓				

Special Instructions/Comments:_____

SEND DOCUMENTATION AND RESULTS TO:

Name:_____
Company:_____
Address:_____
City:_____ State:_____ Zip:_____
Phone:_____ Fax:_____
Email:_____

Container Types: A = 1 Liter Amber, G = Glass Jar
P = PUF, T = MMS Train, O= Other_____

*Bottle Preservative Type: T = Thiosulfate,
O = Other_____

Matrix Types: DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum AQ = Aqueous, O = Other_____

WHITE - ORIGINAL YELLOW - ARCHIVE PINK - COPY

Attachment P-4
Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-45906-1
Client Project/Site: NPDES Sampling Support
Revision: 1

For:
Leidos, Inc.
18912 North Creek Parkway, Suite 101
Bothell, Washington 98011

Attn: Christine Nancarrow

Kristine D. Allen

Authorized for release by:
12/22/2014 5:12:14 PM

Kristine Allen, Manager of Project Management
(253)248-4970
kristine.allen@testamericainc.com

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Job ID: 580-45906-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-45906-1

Comments
No additional comments.

Receipt
The samples were received on 10/14/2014 4:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.4º C and 6.0º C.

GC/MS VOA
Method(s) 8260B
Samples 14ERSS06 (580-46001-7), 14ERSS06 (580-46001-7 MS), 14ERSS06 (580-46001-7 MSD) was received outside of the 48 hour holding time for unpreserved/unfrozen stir bar voa vials.

The surrogates 4-Bromofluorobenzene and Toluene-d8 recovery for sample CC-CB-04-2014013-S (580-45906-4) was outside control limits. Evidence of matrix interference is present; reanalysis was performed with similar high recoveries.

The Internal standard responses for Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 were outside of lower acceptance limits for sample(s): CC-CB-04-2014013-S (580-45906-4). The sample(s) was reanalyzed with similarly low internal standard response. The reanalysis is reported as the primary result.

The method blank for batch 173956 contained 1,2,4-Trimethylbenzene, Hexachloro-1,3-butadiene, Naphthalene, n-Butylbenzene, and tert-Butylbenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. The values should be considered as estimates, and have been “J” qualified. The associated sample results have been “B” qualified.

Method(s) NWTPH-Gx:
The method blank for batch 173053 contained gasoline above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. The values should be considered as estimates, and have been “J” qualified. The associated sample results have been “B” qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D:
The following samples were diluted due to the nature of the sample matrix and abundance of target analytes: CC-A-01-2014013-S (580-45906-3), (580-45906-3 MS) and (580-45906-3 MSD). As such, surrogate and MS/MSD spike recoveries were diluted out and calculated recovery values are not meaningful. Elevated reporting limits (RLs) are provided.

In analysis batch 174626, surrogate recovery for the following sample(s) was outside control limits: CC-CB-04-2014013-S (580-45906-4), CC-CB-22-2014013-S (580-45906-5). Evidence of matrix interference is present; therefore, re-analysis was not performed. Data have been qualified and reported.

The method blank for batch 172794 contained Bis(2-ethylhexyl) phthalate above the reporting limit (RL). There are also hits in the associated samples; the data have been qualified and reported.

The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 172794 recovered outside control limits for Benzoic Acid, 4-Chloroaniline, Pentachlorophenol and Bis(2-ethylhexyl) phthalate. Data has been "*" qualified and reported.

The continuing calibration verification (CCV) associated with analysis batch 172999 recovered above the upper control limit for 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been "^" qualified and reported. The following samples are impacted: (CCVIS 580-172999/3), (LCS 580-172868/2-A), (LCSD 580-172868/3-A), (MB 580-172868/1-A).

Job ID: 580-45906-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

The method blank for analysis batch 172999 contained Diethyl phthalate, Bis(2-ethylhexyl) phthalate and Butyl benzyl phthalate above the method detection limit. The target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. The values should be considered as estimates, and have been “J” qualified. The associated sample results have been “B” qualified.

Multiple analyte(s) recovered outside control limits for the LCS/LCSD associated with prep batch 172868. These analytes were outside the Marginal Exceedance Limits; therefore, re-extraction and/or re-analysis was performed (outside of holding time). Both sets of data have been reported. In addition, the %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) recovered outside control limits for Benzyl alcohol.

The method blank for analysis batch 173503 contained Diethyl phthalate, Bis(2-ethylhexyl) phthalate and Butyl benzyl phthalate above the method detection limit. The target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. The values should be considered as estimates, and have been “J” qualified. The associated sample results have been “B” qualified.

1,2-Dichlorobenzene (low), Anthracene (low), 1,3-Dichlorobenzene (low) and 1,4-Dichlorobenzene (low) recovered outside control limits for the LCSD associated with prep batch 173001. This is not indicative of a systematic control problem because these were random marginal exceedances. The lab SOP allows four marginal exceedances when a full list spike is utilized; data have been "*" qualified and reported.

The following samples were re-extracted outside of prep holding time due to LCS/LCSD failures in the original prep batch 172868: (LCS 580-173678/2-A), (LCSD 580-173678/3-A). The re-extracted LCS/LCSD associated with prep batch 173678 recovered outside control limits for the Anthracene and Benzyl alcohol. This is not indicative of a systematic control problem because these were random marginal exceedances. Results have been "*" qualified and reported. In addition, %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) recovered outside control limits for 4-Nitrophenol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8082:

In analysis batch 174076, the following sample(s) required a copper clean-up (Lot# mkbn5574v) to reduce matrix interferences caused by sulfur: (580-45906-4 MS), (580-45906-4 MSD), (LCS 580-173768/14-A), (LCSD 580-173768/15-A), (MB 580-173768/1-A), CC-A-01-2014013-S (580-45906-3), CC-CB-04-2014013-S (580-45906-4), CC-CB-22-2014013-S (580-45906-5).

Sample (580-45906-4 MS), (580-45906-4 MSD), CC-A-01-2014013-S (580-45906-3), CC-CB-04-2014013-S (580-45906-4), CC-CB-22-2014013-S (580-45906-5) contained more than one Aroclor (aroclors 1260 and 1254) with insufficient separation to quantify individually. The PCBs present are quantified as the predominant Aroclor:

Method(s) NWTPH-Dx:

The method blank for prep batch 173189 contained #2 Diesel fuel (C10-C24) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. The values should be considered as estimates, and have been “J” qualified. The associated sample results have been “B” qualified.

Samples CC-A-01-2014013-S (580-45906-3), CC-CB-04-2014013-S (580-45906-4) and CC-CB-22-2014013-S (580-45906-5) from preparation batch 173189 contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6020:

The method blank for analysis batch 173140 contained Copper above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. The values should be considered as estimates, and have been “J” qualified. The associated sample results have been “B” qualified.

Job ID: 580-45906-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

No additional analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method(s) 300.0:
The following samples were received by the lab with insufficient time to complete the Nitrate as N analysis before the end of holding time: CC-A-01-2014013-W (580-45906-1), CC-FD-02-2014013-W (580-45906-2). Data has been "H" qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Geotechnical
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits
B	Compound was found in the blank and sample.
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
Y	The chromatographic response resembles a typical fuel pattern.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-A-01-2014013-W
Date Collected: 10/13/14 11:45
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.58	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
Bis(2-chloroethyl)ether	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
2-Chlorophenol	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
1,3-Dichlorobenzene	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
1,4-Dichlorobenzene	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
Benzyl alcohol	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
1,2-Dichlorobenzene	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
2-Methylphenol	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
2,2'-oxybis[1-chloropropane]	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
3 & 4 Methylphenol	**0.22**	**J**	0.77	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
N-Nitrosodi-n-propylamine	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
Hexachloroethane	ND		0.58	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
Nitrobenzene	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
Isophorone	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
2-Nitrophenol	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
2,4-Dimethylphenol	ND		1.9	0.29	ug/L		10/15/14 13:10	10/22/14 17:00	1
Benzoic acid	**1.1**	**J ***	2.9	0.58	ug/L		10/15/14 13:10	10/22/14 17:00	1
Bis(2-chloroethoxy)methane	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
2,4-Dichlorophenol	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
1,2,4-Trichlorobenzene	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
Naphthalene	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
4-Chloroaniline	ND	*	0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
Hexachlorobutadiene	ND		0.58	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
4-Chloro-3-methylphenol	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
2-Methylnaphthalene	ND		0.19	0.019	ug/L		10/15/14 13:10	10/22/14 17:00	1
1-Methylnaphthalene	ND		0.058	0.029	ug/L		10/15/14 13:10	10/22/14 17:00	1
Hexachlorocyclopentadiene	ND		1.9	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
2,4,6-Trichlorophenol	ND		0.58	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
2,4,5-Trichlorophenol	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
2-Chloronaphthalene	ND		0.058	0.019	ug/L		10/15/14 13:10	10/22/14 17:00	1
2-Nitroaniline	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
Dimethyl phthalate	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
Acenaphthylene	ND		0.077	0.019	ug/L		10/15/14 13:10	10/22/14 17:00	1
2,6-Dinitrotoluene	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
3-Nitroaniline	ND		0.38	0.12	ug/L		10/15/14 13:10	10/22/14 17:00	1
Acenaphthene	ND		0.096	0.019	ug/L		10/15/14 13:10	10/22/14 17:00	1
2,4-Dinitrophenol	ND		4.8	0.96	ug/L		10/15/14 13:10	10/22/14 17:00	1
4-Nitrophenol	ND		2.9	0.96	ug/L		10/15/14 13:10	10/22/14 17:00	1
Dibenzofuran	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
2,4-Dinitrotoluene	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
Diethyl phthalate	**0.11**	**J**	0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
4-Chlorophenyl phenyl ether	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
Fluorene	ND		0.058	0.019	ug/L		10/15/14 13:10	10/22/14 17:00	1
4-Nitroaniline	ND		0.58	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
4,6-Dinitro-2-methylphenol	ND		3.8	0.96	ug/L		10/15/14 13:10	10/22/14 17:00	1
N-Nitrosodiphenylamine	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
4-Bromophenyl phenyl ether	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
Hexachlorobenzene	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
Pentachlorophenol	ND	*	0.67	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-A-01-2014013-W
Date Collected: 10/13/14 11:45
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.077	0.019	ug/L		10/15/14 13:10	10/22/14 17:00	1
Anthracene	ND		0.038	0.0096	ug/L		10/15/14 13:10	10/22/14 17:00	1
Carbazole	ND		0.38	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
Di-n-butyl phthalate	**0.49**		0.38	0.13	ug/L		10/15/14 13:10	10/22/14 17:00	1
Fluoranthene	ND		0.048	0.013	ug/L		10/15/14 13:10	10/22/14 17:00	1
Pyrene	ND		0.058	0.013	ug/L		10/15/14 13:10	10/22/14 17:00	1
Butyl benzyl phthalate	ND		0.58	0.19	ug/L		10/15/14 13:10	10/22/14 17:00	1
3,3'-Dichlorobenzidine	ND		1.9	0.096	ug/L		10/15/14 13:10	10/22/14 17:00	1
Benzo[a]anthracene	ND		0.058	0.019	ug/L		10/15/14 13:10	10/22/14 17:00	1
Chrysene	ND		0.038	0.013	ug/L		10/15/14 13:10	10/22/14 17:00	1
Bis(2-ethylhexyl) phthalate	**2.0**	**J B ***	2.9	1.1	ug/L		10/15/14 13:10	10/22/14 17:00	1
Di-n-octyl phthalate	**0.25**	**J**	0.38	0.17	ug/L		10/15/14 13:10	10/22/14 17:00	1
Benzo[b]fluoranthene	ND		0.077	0.019	ug/L		10/15/14 13:10	10/22/14 17:00	1
Benzo[k]fluoranthene	ND		0.058	0.019	ug/L		10/15/14 13:10	10/22/14 17:00	1
Benzo[a]pyrene	ND		0.038	0.019	ug/L		10/15/14 13:10	10/22/14 17:00	1
Indeno[1,2,3-cd]pyrene	ND		0.058	0.019	ug/L		10/15/14 13:10	10/22/14 17:00	1
Dibenz(a,h)anthracene	ND		0.058	0.019	ug/L		10/15/14 13:10	10/22/14 17:00	1
Benzo[g,h,i]perylene	ND		0.058	0.019	ug/L		10/15/14 13:10	10/22/14 17:00	1
N-Nitrosodimethylamine	ND		1.9	0.19	ug/L		10/15/14 13:10	10/22/14 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*74*		*30 - 134*	*10/15/14 13:10*	*10/22/14 17:00*	*1*
Phenol-d5	*89*		*52 - 120*	*10/15/14 13:10*	*10/22/14 17:00*	*1*
2,4,6-Tribromophenol	*116*		*44 - 125*	*10/15/14 13:10*	*10/22/14 17:00*	*1*
Nitrobenzene-d5	*92*		*59 - 120*	*10/15/14 13:10*	*10/22/14 17:00*	*1*
2-Fluorobiphenyl	*87*		*50 - 120*	*10/15/14 13:10*	*10/22/14 17:00*	*1*
Terphenyl-d14	*114*		*64 - 150*	*10/15/14 13:10*	*10/22/14 17:00*	*1*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0018**		0.0010	0.00075	mg/L		10/15/14 12:02	10/16/14 09:16	1
Antimony	**0.0015**		0.00040	0.000080	mg/L		10/15/14 12:02	10/16/14 09:16	1
Beryllium	ND		0.00040	0.00010	mg/L		10/15/14 12:02	10/16/14 09:16	1
Cadmium	**0.00024**	**J**	0.00040	0.000028	mg/L		10/15/14 12:02	10/16/14 09:16	1
Chromium	**0.0011**		0.00040	0.00027	mg/L		10/15/14 12:02	10/16/14 09:16	1
Copper	**0.012**		0.0010	0.00011	mg/L		10/15/14 12:02	10/16/14 09:16	1
Lead	**0.0017**		0.00040	0.000034	mg/L		10/15/14 12:02	10/16/14 09:16	1
Nickel	**0.0075**		0.0030	0.00040	mg/L		10/15/14 12:02	10/16/14 09:16	1
Selenium	ND		0.0010	0.00071	mg/L		10/15/14 12:02	10/16/14 09:16	1
Silver	ND		0.00040	0.000030	mg/L		10/15/14 12:02	10/16/14 09:16	1
Thallium	ND		0.0010	0.00028	mg/L		10/15/14 12:02	10/16/14 09:16	1
Zinc	**0.070**		0.0040	0.0019	mg/L		10/15/14 12:02	10/16/14 09:16	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000041	mg/L		10/15/14 10:49	10/15/14 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	**170**		10	10	umhos/cm			10/17/14 16:30	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-A-01-2014013-W
Date Collected: 10/13/14 11:45
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	41		5.0	5.0	mg/L			10/17/14 13:34	1
Bicarbonate Alkalinity as CaCO3	41		5.0	5.0	mg/L			10/17/14 13:34	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			10/17/14 13:34	1
Chloride	11		0.90	0.30	mg/L			10/15/14 14:54	1
Nitrate as N	0.22	J H	0.90	0.20	mg/L			10/15/14 14:54	1
Sulfate	12		1.2	0.40	mg/L			10/15/14 14:54	1
Total Suspended Solids	ND		10	10	mg/L			10/17/14 12:16	1
pH	7.06	HF	0.0100	0.0100	SU			10/15/14 11:05	1
Total Organic Carbon	14		1.0	0.33	mg/L			10/18/14 22:06	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	13		1.0	0.33	mg/L			10/20/14 11:41	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-FD-02-2014013-W
Date Collected: 10/13/14 11:45
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.59	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
Bis(2-chloroethyl)ether	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
2-Chlorophenol	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
1,3-Dichlorobenzene	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
1,4-Dichlorobenzene	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
Benzyl alcohol	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
1,2-Dichlorobenzene	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
2-Methylphenol	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
2,2'-oxybis[1-chloropropane]	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
3 & 4 Methylphenol	**0.14**	**J**	0.78	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
N-Nitrosodi-n-propylamine	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
Hexachloroethane	ND		0.59	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
Nitrobenzene	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
Isophorone	**0.13**	**J**	0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
2-Nitrophenol	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
2,4-Dimethylphenol	ND		2.0	0.29	ug/L		10/15/14 13:10	10/22/14 17:26	1
Benzoic acid	**1.4**	**J ***	2.9	0.59	ug/L		10/15/14 13:10	10/22/14 17:26	1
Bis(2-chloroethoxy)methane	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
2,4-Dichlorophenol	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
1,2,4-Trichlorobenzene	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
Naphthalene	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
4-Chloroaniline	ND	*	0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
Hexachlorobutadiene	ND		0.59	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
4-Chloro-3-methylphenol	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/15/14 13:10	10/22/14 17:26	1
1-Methylnaphthalene	ND		0.059	0.029	ug/L		10/15/14 13:10	10/22/14 17:26	1
Hexachlorocyclopentadiene	ND		2.0	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
2,4,6-Trichlorophenol	ND		0.59	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
2,4,5-Trichlorophenol	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
2-Chloronaphthalene	ND		0.059	0.020	ug/L		10/15/14 13:10	10/22/14 17:26	1
2-Nitroaniline	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
Dimethyl phthalate	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
Acenaphthylene	ND		0.078	0.020	ug/L		10/15/14 13:10	10/22/14 17:26	1
2,6-Dinitrotoluene	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
3-Nitroaniline	ND		0.39	0.12	ug/L		10/15/14 13:10	10/22/14 17:26	1
Acenaphthene	ND		0.098	0.020	ug/L		10/15/14 13:10	10/22/14 17:26	1
2,4-Dinitrophenol	ND		4.9	0.98	ug/L		10/15/14 13:10	10/22/14 17:26	1
4-Nitrophenol	ND		2.9	0.98	ug/L		10/15/14 13:10	10/22/14 17:26	1
Dibenzofuran	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
2,4-Dinitrotoluene	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
Diethyl phthalate	**0.13**	**J**	0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
4-Chlorophenyl phenyl ether	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
Fluorene	ND		0.059	0.020	ug/L		10/15/14 13:10	10/22/14 17:26	1
4-Nitroaniline	ND		0.59	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
4,6-Dinitro-2-methylphenol	ND		3.9	0.98	ug/L		10/15/14 13:10	10/22/14 17:26	1
N-Nitrosodiphenylamine	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
4-Bromophenyl phenyl ether	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
Hexachlorobenzene	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
Pentachlorophenol	ND	*	0.69	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1

Client Sample ID: CC-FD-02-2014013-W
Date Collected: 10/13/14 11:45
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.078	0.020	ug/L		10/15/14 13:10	10/22/14 17:26	1
Anthracene	ND		0.039	0.0098	ug/L		10/15/14 13:10	10/22/14 17:26	1
Carbazole	ND		0.39	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
Di-n-butyl phthalate	**0.62**		0.39	0.13	ug/L		10/15/14 13:10	10/22/14 17:26	1
Fluoranthene	ND		0.049	0.013	ug/L		10/15/14 13:10	10/22/14 17:26	1
Pyrene	ND		0.059	0.013	ug/L		10/15/14 13:10	10/22/14 17:26	1
Butyl benzyl phthalate	ND		0.59	0.20	ug/L		10/15/14 13:10	10/22/14 17:26	1
3,3'-Dichlorobenzidine	ND		2.0	0.098	ug/L		10/15/14 13:10	10/22/14 17:26	1
Benzo[a]anthracene	ND		0.059	0.020	ug/L		10/15/14 13:10	10/22/14 17:26	1
Chrysene	ND		0.039	0.013	ug/L		10/15/14 13:10	10/22/14 17:26	1
Bis(2-ethylhexyl) phthalate	**4.0**	**B ***	2.9	1.2	ug/L		10/15/14 13:10	10/22/14 17:26	1
Di-n-octyl phthalate	ND		0.39	0.18	ug/L		10/15/14 13:10	10/22/14 17:26	1
Benzo[b]fluoranthene	ND		0.078	0.020	ug/L		10/15/14 13:10	10/22/14 17:26	1
Benzo[k]fluoranthene	ND		0.059	0.020	ug/L		10/15/14 13:10	10/22/14 17:26	1
Benzo[a]pyrene	ND		0.039	0.020	ug/L		10/15/14 13:10	10/22/14 17:26	1
Indeno[1,2,3-cd]pyrene	ND		0.059	0.020	ug/L		10/15/14 13:10	10/22/14 17:26	1
Dibenz(a,h)anthracene	ND		0.059	0.020	ug/L		10/15/14 13:10	10/22/14 17:26	1
Benzo[g,h,i]perylene	ND		0.059	0.020	ug/L		10/15/14 13:10	10/22/14 17:26	1
N-Nitrosodimethylamine	ND		2.0	0.20	ug/L		10/15/14 13:10	10/22/14 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*62*		*30 - 134*	*10/15/14 13:10*	*10/22/14 17:26*	*1*
Phenol-d5	*83*		*52 - 120*	*10/15/14 13:10*	*10/22/14 17:26*	*1*
2,4,6-Tribromophenol	*116*		*44 - 125*	*10/15/14 13:10*	*10/22/14 17:26*	*1*
Nitrobenzene-d5	*86*		*59 - 120*	*10/15/14 13:10*	*10/22/14 17:26*	*1*
2-Fluorobiphenyl	*84*		*50 - 120*	*10/15/14 13:10*	*10/22/14 17:26*	*1*
Terphenyl-d14	*118*		*64 - 150*	*10/15/14 13:10*	*10/22/14 17:26*	*1*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0015**		0.0010	0.00075	mg/L		10/15/14 12:02	10/16/14 09:26	1
Antimony	**0.0013**		0.00040	0.000080	mg/L		10/15/14 12:02	10/16/14 09:26	1
Beryllium	ND		0.00040	0.00010	mg/L		10/15/14 12:02	10/16/14 09:26	1
Cadmium	**0.00023**	**J**	0.00040	0.000028	mg/L		10/15/14 12:02	10/16/14 09:26	1
Chromium	**0.0012**		0.00040	0.00027	mg/L		10/15/14 12:02	10/16/14 09:26	1
Copper	**0.012**		0.0010	0.00011	mg/L		10/15/14 12:02	10/16/14 09:26	1
Lead	**0.0016**		0.00040	0.000034	mg/L		10/15/14 12:02	10/16/14 09:26	1
Nickel	**0.0076**		0.0030	0.00040	mg/L		10/15/14 12:02	10/16/14 09:26	1
Selenium	ND		0.0010	0.00071	mg/L		10/15/14 12:02	10/16/14 09:26	1
Silver	ND		0.00040	0.000030	mg/L		10/15/14 12:02	10/16/14 09:26	1
Thallium	ND		0.0010	0.00028	mg/L		10/15/14 12:02	10/16/14 09:26	1
Zinc	**0.068**		0.0040	0.0019	mg/L		10/15/14 12:02	10/16/14 09:26	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000041	mg/L		10/15/14 10:49	10/15/14 13:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	**170**		10	10	umhos/cm			10/17/14 16:30	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-FD-02-2014013-W
Date Collected: 10/13/14 11:45
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-2
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	40		5.0	5.0	mg/L			10/17/14 13:34	1
Bicarbonate Alkalinity as CaCO3	40		5.0	5.0	mg/L			10/17/14 13:34	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			10/17/14 13:34	1
Chloride	11		0.90	0.30	mg/L			10/15/14 15:08	1
Nitrate as N	0.22	J H	0.90	0.20	mg/L			10/15/14 15:08	1
Sulfate	12		1.2	0.40	mg/L			10/15/14 15:08	1
Total Suspended Solids	10		10	10	mg/L			10/17/14 12:16	1
pH	7.07	HF	0.0100	0.0100	SU			10/15/14 11:06	1
Total Organic Carbon	14		1.0	0.33	mg/L			10/18/14 22:27	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	13		1.0	0.33	mg/L			10/21/14 09:10	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-A-01-2014013-S
Date Collected: 10/13/14 12:15
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-3
Matrix: Solid
Percent Solids: 57.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	**110**	**J**	180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Bis(2-chloroethyl)ether	ND		180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
2-Chlorophenol	ND		180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
1,3-Dichlorobenzene	ND	*	88	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
1,4-Dichlorobenzene	ND	*	88	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Benzyl alcohol	ND		180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
1,2-Dichlorobenzene	ND	*	96	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
2-Methylphenol	ND		180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
2,2'-oxybis[1-chloropropane]	ND		440	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
3 & 4 Methylphenol	**78**	**J**	350	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
N-Nitrosodi-n-propylamine	ND		180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Hexachloroethane	ND		180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Nitrobenzene	ND		180	60	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Isophorone	ND		180	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
2-Nitrophenol	ND		180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
2,4-Dimethylphenol	ND		180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Benzoic acid	ND		4400	1300	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Bis(2-chloroethoxy)methane	ND		180	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
2,4-Dichlorophenol	ND		180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
1,2,4-Trichlorobenzene	ND		88	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Naphthalene	**160**		35	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
4-Chloroaniline	ND		180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Hexachlorobutadiene	ND		88	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
4-Chloro-3-methylphenol	ND		180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
2-Methylnaphthalene	**350**		35	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
1-Methylnaphthalene	**270**		53	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Hexachlorocyclopentadiene	ND		180	18	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
2,4,6-Trichlorophenol	ND		260	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
2,4,5-Trichlorophenol	ND		180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
2-Chloronaphthalene	ND		35	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
2-Nitroaniline	ND		180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Dimethyl phthalate	**290**		180	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Acenaphthylene	ND		35	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
2,6-Dinitrotoluene	ND		180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
3-Nitroaniline	ND		180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Acenaphthene	**140**		35	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
2,4-Dinitrophenol	ND		1800	350	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
4-Nitrophenol	**560**	**J**	1800	440	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Dibenzofuran	**100**	**J**	180	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
2,4-Dinitrotoluene	**66**	**J**	180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Diethyl phthalate	ND		350	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
4-Chlorophenyl phenyl ether	ND		180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Fluorene	**120**		35	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
4-Nitroaniline	ND		180	35	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
4,6-Dinitro-2-methylphenol	ND		1800	180	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
N-Nitrosodiphenylamine	ND		88	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
4-Bromophenyl phenyl ether	ND		180	26	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Hexachlorobenzene	ND		88	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Pentachlorophenol	ND		350	35	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-A-01-2014013-S
Date Collected: 10/13/14 12:15
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-3
Matrix: Solid
Percent Solids: 57.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	520		35	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Anthracene	90	*	35	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Carbazole	110	J	180	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Di-n-butyl phthalate	220	J	880	88	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Fluoranthene	940		35	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Pyrene	930		35	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Butyl benzyl phthalate	780	B	350	88	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
3,3'-Dichlorobenzidine	ND		350	53	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Benzo[a]anthracene	330		35	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
Chrysene	520		44	8.8	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10
N-Nitrosodimethylamine	ND		1800	440	ug/Kg	☼	10/17/14 11:05	10/22/14 19:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*66*		*36 - 145*	*10/17/14 11:05*	*10/22/14 19:08*	*10*
Phenol-d5	*64*		*38 - 149*	*10/17/14 11:05*	*10/22/14 19:08*	*10*
2,4,6-Tribromophenol	*96*		*28 - 143*	*10/17/14 11:05*	*10/22/14 19:08*	*10*
Nitrobenzene-d5	*79*		*38 - 141*	*10/17/14 11:05*	*10/22/14 19:08*	*10*
2-Fluorobiphenyl	*70*		*42 - 140*	*10/17/14 11:05*	*10/22/14 19:08*	*10*
Terphenyl-d14	*105*		*42 - 151*	*10/17/14 11:05*	*10/22/14 19:08*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	16000	B	11000	880	ug/Kg	☼	10/17/14 11:05	11/04/14 19:30	100
Di-n-octyl phthalate	1100	J	8800	88	ug/Kg	☼	10/17/14 11:05	11/04/14 19:30	100
Benzo[b]fluoranthene	640		350	88	ug/Kg	☼	10/17/14 11:05	11/04/14 19:30	100
Benzo[k]fluoranthene	300	J	440	88	ug/Kg	☼	10/17/14 11:05	11/04/14 19:30	100
Benzo[a]pyrene	340	J	530	88	ug/Kg	☼	10/17/14 11:05	11/04/14 19:30	100
Indeno[1,2,3-cd]pyrene	270	J	700	88	ug/Kg	☼	10/17/14 11:05	11/04/14 19:30	100
Dibenz(a,h)anthracene	94	J	700	88	ug/Kg	☼	10/17/14 11:05	11/04/14 19:30	100
Benzo[g,h,i]perylene	290	J	440	88	ug/Kg	☼	10/17/14 11:05	11/04/14 19:30	100

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	ND		0.017	0.0055	mg/Kg	☼	10/27/14 06:00	10/28/14 16:13	1
Arochlor 1221	ND		0.019	0.014	mg/Kg	☼	10/27/14 06:00	10/28/14 16:13	1
Arochlor 1232	ND		0.019	0.012	mg/Kg	☼	10/27/14 06:00	10/28/14 16:13	1
Arochlor 1242	ND		0.017	0.0036	mg/Kg	☼	10/27/14 06:00	10/28/14 16:13	1
Arochlor 1248	ND		0.017	0.0052	mg/Kg	☼	10/27/14 06:00	10/28/14 16:13	1
Arochlor 1254	ND		0.017	0.0036	mg/Kg	☼	10/27/14 06:00	10/28/14 16:13	1
Arochlor 1260	1.6		0.017	0.0052	mg/Kg	☼	10/27/14 06:00	10/28/14 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*45 - 135*	*10/27/14 06:00*	*10/28/14 16:13*	*1*
DCB Decachlorobiphenyl	*82*		*50 - 140*	*10/27/14 06:00*	*10/28/14 16:13*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	2600	B Y	43	9.8	mg/Kg	☼	10/20/14 10:52	10/21/14 18:52	1
Motor Oil (>C24-C36)	10000	Y	86	16	mg/Kg	☼	10/20/14 10:52	10/21/14 18:52	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-A-01-2014013-S
Date Collected: 10/13/14 12:15
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-3
Matrix: Solid
Percent Solids: 57.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	103		50 - 150	10/20/14 10:52	10/21/14 18:52	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	170		0.87	0.31	mg/Kg	☼	10/15/14 17:54	10/16/14 17:38	10
Lead	250		0.35	0.023	mg/Kg	☼	10/15/14 17:54	10/16/14 17:38	10
Antimony	110		0.35	0.073	mg/Kg	☼	10/15/14 17:54	10/16/14 17:38	10
Beryllium	0.40		0.35	0.061	mg/Kg	☼	10/15/14 17:54	10/16/14 17:38	10
Cadmium	4.3		0.35	0.014	mg/Kg	☼	10/15/14 17:54	10/16/14 17:38	10
Chromium	3800		0.35	0.20	mg/Kg	☼	10/15/14 17:54	10/16/14 17:38	10
Copper	540	B	0.70	0.17	mg/Kg	☼	10/15/14 17:54	10/16/14 17:38	10
Nickel	2800		0.87	0.14	mg/Kg	☼	10/15/14 17:54	10/16/14 17:38	10
Selenium	2.1		1.2	0.35	mg/Kg	☼	10/15/14 17:54	10/16/14 17:38	10
Silver	2.4		0.35	0.021	mg/Kg	☼	10/15/14 17:54	10/16/14 17:38	10
Thallium	ND		0.87	0.23	mg/Kg	☼	10/15/14 17:54	10/16/14 17:38	10
Zinc	1300		3.5	1.9	mg/Kg	☼	10/15/14 17:54	10/16/14 17:38	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.020	0.0062	mg/Kg	☼	10/15/14 17:07	10/16/14 10:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	57		0.10	0.10	%			10/20/14 18:10	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-CB-04-2014013-S
Date Collected: 10/13/14 13:20
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-4
Matrix: Solid
Percent Solids: 59.7

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.3	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Chloromethane	ND		1.3	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Vinyl chloride	ND		1.3	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Bromomethane	ND		1.3	0.53	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Chloroethane	ND		1.3	0.26	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Trichlorofluoromethane	ND		1.3	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,1-Dichloroethene	ND		6.6	0.26	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Methylene Chloride	ND		20	4.0	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
trans-1,2-Dichloroethene	ND		1.3	0.53	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,1-Dichloroethane	ND		1.3	0.53	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
2,2-Dichloropropane	ND		6.6	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
cis-1,2-Dichloroethene	ND		1.3	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Bromochloromethane	ND		2.6	0.66	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Chloroform	ND		1.3	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,1,1-Trichloroethane	ND		1.3	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Acrolein	ND		40	11	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Carbon tetrachloride	ND		1.3	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,1-Dichloropropene	ND		1.3	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.3	0.26	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Benzene	**0.62**	**J**	1.3	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,2-Dichloroethane	ND		1.3	0.53	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Iodomethane	ND		20	0.26	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Carbon disulfide	**12**		1.3	0.26	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Trichloroethene	ND		1.3	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,2-Dichloropropane	ND		1.3	0.53	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Acetone	**460**		20	3.2	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Dibromomethane	ND		1.3	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Bromodichloromethane	ND		1.3	0.53	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
cis-1,3-Dichloropropene	ND	*	1.3	0.26	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Toluene	**7.9**	*	2.6	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
trans-1,3-Dichloropropene	ND	*	1.3	0.26	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,1,2-Trichloroethane	ND	*	2.6	0.66	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Acrylonitrile	ND		13	3.7	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Tetrachloroethene	ND	*	1.3	0.53	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,3-Dichloropropane	ND	*	2.6	0.66	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Chlorodibromomethane	ND	*	2.6	0.66	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,2-Dibromoethane	ND	*	1.3	0.26	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Chlorobenzene	ND	*	1.3	0.53	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Vinyl acetate	ND		6.6	0.79	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Ethylbenzene	**4.6**	*	1.3	0.53	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,1,1,2-Tetrachloroethane	ND	*	1.3	0.53	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,1,2,2-Tetrachloroethane	ND	*	2.6	1.2	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
2-Butanone	**140**		13	4.0	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
m-Xylene & p-Xylene	**14**	*	2.6	0.26	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
o-Xylene	**14**	*	2.6	0.66	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Styrene	ND	*	2.6	0.26	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Bromoform	ND	*	1.3	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Isopropylbenzene	**1.5**	**J ***	2.6	0.26	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Bromobenzene	ND	*	2.6	0.66	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-CB-04-2014013-S
Date Collected: 10/13/14 13:20
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-4
Matrix: Solid
Percent Solids: 59.7

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	**1.2**	**J ***	2.6	0.66	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,2,3-Trichloropropane	ND	*	1.3	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
2-Chlorotoluene	ND	*	2.6	0.66	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,3,5-Trimethylbenzene	**3.6**	**J ***	6.6	0.66	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
4-Chlorotoluene	ND	*	2.6	0.66	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
tert-Butylbenzene	**1.2**	**J * B**	2.6	0.26	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,2,4-Trimethylbenzene	**6.2**	*** B**	2.6	0.53	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
sec-Butylbenzene	**1.4**	**J ***	2.6	0.66	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,3-Dichlorobenzene	**0.77**	**J ***	2.6	0.66	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
4-Isopropyltoluene	**1.1**	**J ***	2.6	0.53	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,4-Dichlorobenzene	**1.2**	**J ***	1.3	0.26	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
n-Butylbenzene	**1.6**	**J * B**	2.6	0.26	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,2-Dichlorobenzene	ND	*	2.6	0.79	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,2-Dibromo-3-Chloropropane	ND	*	2.6	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,2,4-Trichlorobenzene	**2.4**	**J ***	2.6	0.53	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
1,2,3-Trichlorobenzene	**2.7**	****	2.6	0.79	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
2-Chloroethyl vinyl ether	ND	*	6.6	1.9	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Hexachloro-1,3-butadiene	**2.9**	*** B**	2.6	0.79	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
4-Methyl-2-pentanone	**12**	****	6.6	2.0	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Naphthalene	**6.0**	**J * B**	6.6	0.66	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
Methyl tert-butyl ether	ND		1.3	0.40	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
2-Hexanone	ND	*	6.6	0.66	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1
trans-1,4-Dichloro-2-butene	ND	*	6.6	2.3	ug/Kg	☼	10/14/14 16:40	10/27/14 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*133*	** X*	*80 - 120*	*10/14/14 16:40*	*10/27/14 18:57*	*1*
4-Bromofluorobenzene (Surr)	*152*	** X*	*70 - 120*	*10/14/14 16:40*	*10/27/14 18:57*	*1*
Dibromofluoromethane (Surr)	*115*		*75 - 132*	*10/14/14 16:40*	*10/27/14 18:57*	*1*
Trifluorotoluene (Surr)	*74*		*65 - 140*	*10/14/14 16:40*	*10/27/14 18:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*132*		*71 - 136*	*10/14/14 16:40*	*10/27/14 18:57*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	**120**	**J ***	820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Bis(2-chloroethyl)ether	ND	*	820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
2-Chlorophenol	ND	*	820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
1,3-Dichlorobenzene	ND	*	410	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
1,4-Dichlorobenzene	ND	*	410	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Benzyl alcohol	ND	*	820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
1,2-Dichlorobenzene	ND	*	450	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
2-Methylphenol	ND	*	820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
2,2'-oxybis[1-chloropropane]	ND		2100	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
3 & 4 Methylphenol	ND	*	1600	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
N-Nitrosodi-n-propylamine	ND	*	820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Hexachloroethane	ND	*	820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Nitrobenzene	ND	*	820	280	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Isophorone	ND	*	820	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
2-Nitrophenol	ND	*	820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
2,4-Dimethylphenol	ND		820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Benzoic acid	ND		21000	6200	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-CB-04-2014013-S
Date Collected: 10/13/14 13:20
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-4
Matrix: Solid
Percent Solids: 59.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND	*	820	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
2,4-Dichlorophenol	ND		820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
1,2,4-Trichlorobenzene	ND	*	410	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Naphthalene	**92**	**J ***	160	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
4-Chloroaniline	ND		820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Hexachlorobutadiene	ND	*	410	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
4-Chloro-3-methylphenol	ND	*	820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
2-Methylnaphthalene	**73**	**J ***	160	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
1-Methylnaphthalene	**60**	**J ***	250	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Hexachlorocyclopentadiene	ND		820	82	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
2,4,6-Trichlorophenol	ND	*	1200	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
2,4,5-Trichlorophenol	ND		820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
2-Chloronaphthalene	ND	*	160	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
2-Nitroaniline	ND		820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Dimethyl phthalate	ND	*	820	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Acenaphthylene	ND	*	160	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
2,6-Dinitrotoluene	ND	*	820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
3-Nitroaniline	ND		820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Acenaphthene	**81**	**J ***	160	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
2,4-Dinitrophenol	ND		8200	1600	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
4-Nitrophenol	ND		8200	2100	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Dibenzofuran	ND	*	820	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
2,4-Dinitrotoluene	ND	*	820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Diethyl phthalate	ND	*	1600	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
4-Chlorophenyl phenyl ether	ND	*	820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Fluorene	**92**	**J ***	160	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
4-Nitroaniline	ND		820	160	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
4,6-Dinitro-2-methylphenol	ND		8200	820	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
N-Nitrosodiphenylamine	ND	*	410	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
4-Bromophenyl phenyl ether	ND		820	120	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Hexachlorobenzene	ND	*	410	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Pentachlorophenol	ND		1600	160	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Phenanthrene	**370**	****	160	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Anthracene	**53**	**J ***	160	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Carbazole	ND	*	820	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Di-n-butyl phthalate	ND		4100	410	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Fluoranthene	**750**	****	160	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Pyrene	**540**	****	160	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Butyl benzyl phthalate	**740**	**J B**	1600	410	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
3,3'-Dichlorobenzidine	ND		1600	250	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Benzo[a]anthracene	**210**	****	160	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Chrysene	**480**	****	210	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Bis(2-ethylhexyl) phthalate	**8700**	**B**	4900	410	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Di-n-octyl phthalate	**760**	**J ***	4100	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Benzo[b]fluoranthene	**560**	****	160	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Benzo[k]fluoranthene	**170**	**J**	210	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Benzo[a]pyrene	**280**	****	250	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Indeno[1,2,3-cd]pyrene	**180**	**J**	330	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
Dibenz(a,h)anthracene	ND		330	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50

Client Sample ID: CC-CB-04-2014013-S
Date Collected: 10/13/14 13:20
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-4
Matrix: Solid
Percent Solids: 59.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**210**		210	41	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50
N-Nitrosodimethylamine	ND		8200	2100	ug/Kg	☼	10/16/14 09:52	11/03/14 21:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*71*		*36 - 145*	*10/16/14 09:52*	*11/03/14 21:19*	*50*
Phenol-d5	*90*		*38 - 149*	*10/16/14 09:52*	*11/03/14 21:19*	*50*
2,4,6-Tribromophenol	*142*		*28 - 143*	*10/16/14 09:52*	*11/03/14 21:19*	*50*
Nitrobenzene-d5	*71*		*38 - 141*	*10/16/14 09:52*	*11/03/14 21:19*	*50*
2-Fluorobiphenyl	*49*		*42 - 140*	*10/16/14 09:52*	*11/03/14 21:19*	*50*
Terphenyl-d14	*116*		*42 - 151*	*10/16/14 09:52*	*11/03/14 21:19*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	**160**	**J**	840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Bis(2-chloroethyl)ether	ND		840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
2-Chlorophenol	ND		840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
1,3-Dichlorobenzene	ND		420	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
1,4-Dichlorobenzene	ND		420	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Benzyl alcohol	ND	*	840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
1,2-Dichlorobenzene	ND		460	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
2-Methylphenol	ND		840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
2,2'-oxybis[1-chloropropane]	ND		2100	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
3 & 4 Methylphenol	**130**	**J**	1700	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
N-Nitrosodi-n-propylamine	ND		840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Hexachloroethane	ND		840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Nitrobenzene	ND		840	280	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Isophorone	ND		840	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
2-Nitrophenol	ND		840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
2,4-Dimethylphenol	ND		840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Benzoic acid	ND		21000	6300	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Bis(2-chloroethoxy)methane	ND		840	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
2,4-Dichlorophenol	ND		840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
1,2,4-Trichlorobenzene	ND		420	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Naphthalene	ND		170	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
4-Chloroaniline	ND		840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Hexachlorobutadiene	ND		420	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
4-Chloro-3-methylphenol	ND		840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
2-Methylnaphthalene	**210**		170	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
1-Methylnaphthalene	**110**	**J**	250	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Hexachlorocyclopentadiene	ND		840	84	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
2,4,6-Trichlorophenol	ND		1300	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
2,4,5-Trichlorophenol	ND		840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
2-Chloronaphthalene	ND		170	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
2-Nitroaniline	ND		840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Dimethyl phthalate	**150**	**J**	840	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Acenaphthylene	ND		170	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
2,6-Dinitrotoluene	ND		840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
3-Nitroaniline	ND		840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Acenaphthene	**170**		170	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
2,4-Dinitrophenol	ND		8400	1700	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50

Client Sample ID: CC-CB-04-2014013-S
Date Collected: 10/13/14 13:20
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-4
Matrix: Solid
Percent Solids: 59.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND	*	8400	2100	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Dibenzofuran	ND		840	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
2,4-Dinitrotoluene	ND		840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Diethyl phthalate	ND		1700	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
4-Chlorophenyl phenyl ether	ND		840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Fluorene	**130**	**J**	170	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
4-Nitroaniline	ND		840	170	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
4,6-Dinitro-2-methylphenol	ND		8400	840	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
N-Nitrosodiphenylamine	ND		420	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
4-Bromophenyl phenyl ether	ND		840	130	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Hexachlorobenzene	ND		420	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Pentachlorophenol	ND		1700	170	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Phenanthrene	**540**		170	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Anthracene	**91**	**J ***	170	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Carbazole	**130**	**J**	840	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Di-n-butyl phthalate	ND		4200	420	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Fluoranthene	**830**		170	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Pyrene	**700**		170	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Butyl benzyl phthalate	**420**	**J**	1700	420	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
3,3'-Dichlorobenzidine	ND		1700	250	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Benzo[a]anthracene	**190**		170	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Chrysene	**410**		210	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Bis(2-ethylhexyl) phthalate	**9500**		5000	420	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Di-n-octyl phthalate	**790**	**J**	4200	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Benzo[b]fluoranthene	**540**		170	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Benzo[k]fluoranthene	**210**		210	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Benzo[a]pyrene	**330**		250	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Indeno[1,2,3-cd]pyrene	**210**	**J**	330	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Dibenz(a,h)anthracene	ND		330	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
Benzo[g,h,i]perylene	**210**		210	42	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50
N-Nitrosodimethylamine	ND		8400	2100	ug/Kg	☼	10/24/14 12:00	11/03/14 22:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*81*		*36 - 145*	*10/24/14 12:00*	*11/03/14 22:10*	*50*
Phenol-d5	*80*		*38 - 149*	*10/24/14 12:00*	*11/03/14 22:10*	*50*
2,4,6-Tribromophenol	*143*		*28 - 143*	*10/24/14 12:00*	*11/03/14 22:10*	*50*
Nitrobenzene-d5	*35*	*X*	*38 - 141*	*10/24/14 12:00*	*11/03/14 22:10*	*50*
2-Fluorobiphenyl	*24*	*X*	*42 - 140*	*10/24/14 12:00*	*11/03/14 22:10*	*50*
Terphenyl-d14	*179*	*X*	*42 - 151*	*10/24/14 12:00*	*11/03/14 22:10*	*50*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**19**	**B**	14	1.7	mg/Kg	☼	10/17/14 15:22	10/17/14 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*50 - 150*	*10/17/14 15:22*	*10/17/14 19:52*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	ND		0.016	0.0053	mg/Kg	☼	10/27/14 06:00	10/28/14 16:28	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-CB-04-2014013-S
Date Collected: 10/13/14 13:20
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-4
Matrix: Solid
Percent Solids: 59.7

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1221	ND		0.018	0.013	mg/Kg	☼	10/27/14 06:00	10/28/14 16:28	1
Arochlor 1232	ND		0.018	0.012	mg/Kg	☼	10/27/14 06:00	10/28/14 16:28	1
Arochlor 1242	ND		0.016	0.0035	mg/Kg	☼	10/27/14 06:00	10/28/14 16:28	1
Arochlor 1248	ND		0.016	0.0049	mg/Kg	☼	10/27/14 06:00	10/28/14 16:28	1
Arochlor 1254	ND		0.016	0.0035	mg/Kg	☼	10/27/14 06:00	10/28/14 16:28	1
Arochlor 1260	**0.43**		0.016	0.0049	mg/Kg	☼	10/27/14 06:00	10/28/14 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*45 - 135*	*10/27/14 06:00*	*10/28/14 16:28*	*1*
DCB Decachlorobiphenyl	*73*		*50 - 140*	*10/27/14 06:00*	*10/28/14 16:28*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**840**	**B Y**	40	9.1	mg/Kg	☼	10/20/14 10:52	10/21/14 19:10	1
Motor Oil (>C24-C36)	**5400**	**Y**	80	15	mg/Kg	☼	10/20/14 10:52	10/21/14 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*10/20/14 10:52*	*10/21/14 19:10*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**17**		0.73	0.26	mg/Kg	☼	10/15/14 17:54	10/16/14 17:35	10
Lead	**69**		0.29	0.019	mg/Kg	☼	10/15/14 17:54	10/16/14 17:35	10
Antimony	**7.3**		0.29	0.061	mg/Kg	☼	10/15/14 17:54	10/16/14 17:35	10
Beryllium	**0.37**		0.29	0.051	mg/Kg	☼	10/15/14 17:54	10/16/14 17:35	10
Cadmium	**4.7**		0.29	0.012	mg/Kg	☼	10/15/14 17:54	10/16/14 17:35	10
Chromium	**8600**		0.29	0.16	mg/Kg	☼	10/15/14 17:54	10/16/14 17:35	10
Copper	**420**	**B**	0.58	0.14	mg/Kg	☼	10/15/14 17:54	10/16/14 17:35	10
Nickel	**5900**		0.73	0.12	mg/Kg	☼	10/15/14 17:54	10/16/14 17:35	10
Selenium	**3.0**		1.0	0.29	mg/Kg	☼	10/15/14 17:54	10/16/14 17:35	10
Silver	**0.98**		0.29	0.017	mg/Kg	☼	10/15/14 17:54	10/16/14 17:35	10
Thallium	ND		0.73	0.19	mg/Kg	☼	10/15/14 17:54	10/16/14 17:35	10
Zinc	**960**		2.9	1.6	mg/Kg	☼	10/15/14 17:54	10/16/14 17:35	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.28**		0.025	0.0080	mg/Kg	☼	10/15/14 17:07	10/16/14 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**60**		0.10	0.10	%			10/20/14 18:10	1
Total Organic Carbon	**69000**		2000	250	mg/Kg			10/21/14 12:24	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobbles	**0.00**				%			10/16/14 12:09	1
Gravel	**7.2**				%			10/16/14 12:09	1
Sand	**75**				%			10/16/14 12:09	1
Silt	**17**				%			10/16/14 12:09	1
Clay	**0.70**				%			10/16/14 12:09	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-CB-22-2014013-S
Date Collected: 10/13/14 14:10
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-5
Matrix: Solid
Percent Solids: 57.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	**150**	**J ***	860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Bis(2-chloroethyl)ether	ND	*	860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
2-Chlorophenol	ND	*	860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
1,3-Dichlorobenzene	ND	*	430	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
1,4-Dichlorobenzene	ND	*	430	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Benzyl alcohol	ND	*	860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
1,2-Dichlorobenzene	ND	*	470	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
2-Methylphenol	ND	*	860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
2,2'-oxybis[1-chloropropane]	ND		2100	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
3 & 4 Methylphenol	**160**	**J ***	1700	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
N-Nitrosodi-n-propylamine	ND	*	860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Hexachloroethane	ND	*	860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Nitrobenzene	ND	*	860	290	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Isophorone	ND	*	860	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
2-Nitrophenol	ND	*	860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
2,4-Dimethylphenol	ND		860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Benzoic acid	ND		21000	6400	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Bis(2-chloroethoxy)methane	ND	*	860	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
2,4-Dichlorophenol	ND		860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
1,2,4-Trichlorobenzene	ND	*	430	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Naphthalene	**190**	****	170	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
4-Chloroaniline	ND		860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Hexachlorobutadiene	ND	*	430	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
4-Chloro-3-methylphenol	ND	*	860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
2-Methylnaphthalene	**220**	****	170	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
1-Methylnaphthalene	**200**	**J ***	260	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Hexachlorocyclopentadiene	ND		860	86	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
2,4,6-Trichlorophenol	ND	*	1300	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
2,4,5-Trichlorophenol	ND		860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
2-Chloronaphthalene	ND	*	170	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
2-Nitroaniline	ND		860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Dimethyl phthalate	**260**	**J ***	860	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Acenaphthylene	ND	*	170	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
2,6-Dinitrotoluene	ND	*	860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
3-Nitroaniline	ND		860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Acenaphthene	**100**	**J ***	170	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
2,4-Dinitrophenol	ND		8600	1700	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
4-Nitrophenol	ND		8600	2100	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Dibenzofuran	**71**	**J ***	860	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
2,4-Dinitrotoluene	ND	*	860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Diethyl phthalate	**140**	**J ***	1700	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
4-Chlorophenyl phenyl ether	ND	*	860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Fluorene	**69**	**J ***	170	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
4-Nitroaniline	ND		860	170	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
4,6-Dinitro-2-methylphenol	ND		8600	860	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
N-Nitrosodiphenylamine	ND	*	430	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
4-Bromophenyl phenyl ether	ND		860	130	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Hexachlorobenzene	ND	*	430	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Pentachlorophenol	ND		1700	170	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-CB-22-2014013-S
Date Collected: 10/13/14 14:10
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-5
Matrix: Solid
Percent Solids: 57.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	730	*	170	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Anthracene	150	J *	170	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Carbazole	200	J *	860	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Di-n-butyl phthalate	ND		4300	430	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Fluoranthene	2000	*	170	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Pyrene	1800	*	170	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Butyl benzyl phthalate	800	J B	1700	430	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
3,3'-Dichlorobenzidine	ND		1700	260	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Benzo[a]anthracene	840	*	170	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Chrysene	1200	*	210	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Bis(2-ethylhexyl) phthalate	2200	J B	5200	430	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Di-n-octyl phthalate	510	J *	4300	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Benzo[b]fluoranthene	1600	*	170	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Benzo[k]fluoranthene	540		210	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Benzo[a]pyrene	880	*	260	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Indeno[1,2,3-cd]pyrene	440		340	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Dibenz(a,h)anthracene	ND		340	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
Benzo[g,h,i]perylene	280		210	43	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50
N-Nitrosodimethylamine	ND		8600	2100	ug/Kg	☼	10/16/14 09:52	11/03/14 21:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*75*		*36 - 145*	*10/16/14 09:52*	*11/03/14 21:44*	*50*
Phenol-d5	*77*		*38 - 149*	*10/16/14 09:52*	*11/03/14 21:44*	*50*
2,4,6-Tribromophenol	*133*		*28 - 143*	*10/16/14 09:52*	*11/03/14 21:44*	*50*
Nitrobenzene-d5	*91*		*38 - 141*	*10/16/14 09:52*	*11/03/14 21:44*	*50*
2-Fluorobiphenyl	*48*		*42 - 140*	*10/16/14 09:52*	*11/03/14 21:44*	*50*
Terphenyl-d14	*109*		*42 - 151*	*10/16/14 09:52*	*11/03/14 21:44*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	190	J	850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Bis(2-chloroethyl)ether	ND		850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
2-Chlorophenol	ND		850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
1,3-Dichlorobenzene	ND		430	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
1,4-Dichlorobenzene	ND		430	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Benzyl alcohol	180	J *	850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
1,2-Dichlorobenzene	ND		470	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
2-Methylphenol	ND		850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
2,2'-oxybis[1-chloropropane]	ND		2100	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
3 & 4 Methylphenol	ND		1700	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
N-Nitrosodi-n-propylamine	ND		850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Hexachloroethane	ND		850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Nitrobenzene	ND		850	290	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Isophorone	ND		850	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
2-Nitrophenol	ND		850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
2,4-Dimethylphenol	ND		850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Benzoic acid	ND		21000	6400	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Bis(2-chloroethoxy)methane	ND		850	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
2,4-Dichlorophenol	ND		850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
1,2,4-Trichlorobenzene	ND		430	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-CB-22-2014013-S
Date Collected: 10/13/14 14:10
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-5
Matrix: Solid
Percent Solids: 57.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**140**	**J**	170	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
4-Chloroaniline	ND		850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Hexachlorobutadiene	ND		430	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
4-Chloro-3-methylphenol	ND		850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
2-Methylnaphthalene	**170**		170	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
1-Methylnaphthalene	**97**	**J**	260	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Hexachlorocyclopentadiene	ND		850	85	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
2,4,6-Trichlorophenol	ND		1300	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
2,4,5-Trichlorophenol	ND		850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
2-Chloronaphthalene	ND		170	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
2-Nitroaniline	ND		850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Dimethyl phthalate	**86**	**J**	850	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Acenaphthylene	ND		170	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
2,6-Dinitrotoluene	ND		850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
3-Nitroaniline	ND		850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Acenaphthene	**100**	**J**	170	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
2,4-Dinitrophenol	ND		8500	1700	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
4-Nitrophenol	ND	*	8500	2100	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Dibenzofuran	**64**	**J**	850	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
2,4-Dinitrotoluene	ND		850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Diethyl phthalate	ND		1700	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
4-Chlorophenyl phenyl ether	ND		850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Fluorene	**56**	**J**	170	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
4-Nitroaniline	ND		850	170	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
4,6-Dinitro-2-methylphenol	ND		8500	850	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
N-Nitrosodiphenylamine	ND		430	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
4-Bromophenyl phenyl ether	ND		850	130	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Hexachlorobenzene	ND		430	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Pentachlorophenol	ND		1700	170	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Phenanthrene	**540**		170	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Anthracene	**95**	**J ***	170	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Carbazole	**170**	**J**	850	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Di-n-butyl phthalate	ND		4300	430	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Fluoranthene	**1500**		170	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Pyrene	**1400**		170	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Butyl benzyl phthalate	**640**	**J**	1700	430	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
3,3'-Dichlorobenzidine	ND		1700	260	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Benzo[a]anthracene	**600**		170	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Chrysene	**920**		210	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Bis(2-ethylhexyl) phthalate	**1800**	**J**	5100	430	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Di-n-octyl phthalate	ND		4300	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Benzo[b]fluoranthene	**1400**		170	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Benzo[k]fluoranthene	**340**		210	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Benzo[a]pyrene	**670**		260	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Indeno[1,2,3-cd]pyrene	**250**	**J**	340	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Dibenz(a,h)anthracene	ND		340	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
Benzo[g,h,i]perylene	**260**		210	43	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50
N-Nitrosodimethylamine	ND		8500	2100	ug/Kg	☼	10/24/14 12:00	11/03/14 23:27	50

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-CB-22-2014013-S
Date Collected: 10/13/14 14:10
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-5
Matrix: Solid
Percent Solids: 57.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		36 - 145	10/24/14 12:00	11/03/14 23:27	50
Phenol-d5	66		38 - 149	10/24/14 12:00	11/03/14 23:27	50
2,4,6-Tribromophenol	118		28 - 143	10/24/14 12:00	11/03/14 23:27	50
Nitrobenzene-d5	62		38 - 141	10/24/14 12:00	11/03/14 23:27	50
2-Fluorobiphenyl	37	X	42 - 140	10/24/14 12:00	11/03/14 23:27	50
Terphenyl-d14	111		42 - 151	10/24/14 12:00	11/03/14 23:27	50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	ND		0.017	0.0054	mg/Kg	☼	10/27/14 06:00	10/28/14 17:14	1
Arochlor 1221	ND		0.019	0.014	mg/Kg	☼	10/27/14 06:00	10/28/14 17:14	1
Arochlor 1232	ND		0.019	0.012	mg/Kg	☼	10/27/14 06:00	10/28/14 17:14	1
Arochlor 1242	ND		0.017	0.0035	mg/Kg	☼	10/27/14 06:00	10/28/14 17:14	1
Arochlor 1248	ND		0.017	0.0051	mg/Kg	☼	10/27/14 06:00	10/28/14 17:14	1
Arochlor 1254	ND		0.017	0.0035	mg/Kg	☼	10/27/14 06:00	10/28/14 17:14	1
Arochlor 1260	**1.0**		0.017	0.0051	mg/Kg	☼	10/27/14 06:00	10/28/14 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		45 - 135	10/27/14 06:00	10/28/14 17:14	1
DCB Decachlorobiphenyl	75		50 - 140	10/27/14 06:00	10/28/14 17:14	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**410**	**B Y**	43	9.8	mg/Kg	☼	10/20/14 10:52	10/21/14 19:47	1
Motor Oil (>C24-C36)	**1900**	**Y**	86	16	mg/Kg	☼	10/20/14 10:52	10/21/14 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150	10/20/14 10:52	10/21/14 19:47	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**16**		0.66	0.24	mg/Kg	☼	10/15/14 17:54	10/16/14 17:09	10
Lead	**180**		0.26	0.017	mg/Kg	☼	10/15/14 17:54	10/16/14 17:09	10
Antimony	**8.3**		0.26	0.055	mg/Kg	☼	10/15/14 17:54	10/16/14 17:09	10
Beryllium	**0.89**		0.26	0.046	mg/Kg	☼	10/15/14 17:54	10/16/14 17:09	10
Cadmium	**2.0**		0.26	0.010	mg/Kg	☼	10/15/14 17:54	10/16/14 17:09	10
Chromium	**380**		0.26	0.15	mg/Kg	☼	10/15/14 17:54	10/16/14 17:09	10
Copper	**540**	**B**	0.52	0.13	mg/Kg	☼	10/15/14 17:54	10/16/14 17:09	10
Nickel	**360**		0.66	0.11	mg/Kg	☼	10/15/14 17:54	10/16/14 17:09	10
Selenium	**2.4**		0.92	0.26	mg/Kg	☼	10/15/14 17:54	10/16/14 17:09	10
Silver	**1.0**		0.26	0.016	mg/Kg	☼	10/15/14 17:54	10/16/14 17:09	10
Thallium	**0.22**	**J**	0.66	0.17	mg/Kg	☼	10/15/14 17:54	10/16/14 17:09	10
Zinc	**1100**		2.6	1.5	mg/Kg	☼	10/15/14 17:54	10/16/14 17:09	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.35**		0.027	0.0084	mg/Kg	☼	10/15/14 17:07	10/16/14 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**57**		0.10	0.10	%			10/20/14 15:14	1
Total Organic Carbon	**76000**		2000	250	mg/Kg			10/21/14 12:24	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-CB-22-2014013-S
Date Collected: 10/13/14 14:10
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-5
Matrix: Solid

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobbles	0.00				%			10/16/14 12:09	1
Gravel	5.0				%			10/16/14 12:09	1
Sand	45				%			10/16/14 12:09	1
Silt	49				%			10/16/14 12:09	1
Clay	1.3				%			10/16/14 12:09	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-174012/1-A
Matrix: Solid
Analysis Batch: 173956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174012

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Chloromethane	ND		1.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Vinyl chloride	ND		1.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Bromomethane	ND		1.0	0.40	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Chloroethane	ND		1.0	0.20	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Trichlorofluoromethane	ND		1.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,1-Dichloroethene	ND		5.0	0.20	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Methylene Chloride	ND		15	3.0	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
trans-1,2-Dichloroethene	ND		1.0	0.40	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,1-Dichloroethane	ND		1.0	0.40	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
2,2-Dichloropropane	ND		5.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Bromochloromethane	ND		2.0	0.50	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Chloroform	ND		1.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Acrolein	ND		30	8.2	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Carbon tetrachloride	ND		1.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,1-Dichloropropene	ND		1.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.20	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Benzene	ND		1.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,2-Dichloroethane	ND		1.0	0.40	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Iodomethane	ND		15	0.20	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Carbon disulfide	ND		1.0	0.20	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Trichloroethene	ND		1.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,2-Dichloropropane	ND		1.0	0.40	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Acetone	ND		15	2.4	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Dibromomethane	ND		1.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Bromodichloromethane	ND		1.0	0.40	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Toluene	ND		2.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,1,2-Trichloroethane	ND		2.0	0.50	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Acrylonitrile	ND		10	2.8	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Tetrachloroethene	ND		1.0	0.40	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,3-Dichloropropane	ND		2.0	0.50	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Chlorodibromomethane	ND		2.0	0.50	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,2-Dibromoethane	ND		1.0	0.20	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Chlorobenzene	ND		1.0	0.40	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Vinyl acetate	ND		5.0	0.60	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Ethylbenzene	ND		1.0	0.40	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.40	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.90	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
2-Butanone	ND		10	3.0	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
m-Xylene & p-Xylene	ND		2.0	0.20	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
o-Xylene	ND		2.0	0.50	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Styrene	ND		2.0	0.20	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Bromoform	ND		1.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Isopropylbenzene	ND		2.0	0.20	ug/Kg		10/27/14 16:58	10/27/14 17:37	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-174012/1-A
Matrix: Solid
Analysis Batch: 173956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174012

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		2.0	0.50	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
N-Propylbenzene	ND		2.0	0.50	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
2-Chlorotoluene	ND		2.0	0.50	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
4-Chlorotoluene	ND		2.0	0.50	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
tert-Butylbenzene	0.659	J	2.0	0.20	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,2,4-Trimethylbenzene	0.447	J	2.0	0.40	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
sec-Butylbenzene	ND		2.0	0.50	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,3-Dichlorobenzene	ND		2.0	0.50	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
4-Isopropyltoluene	ND		2.0	0.40	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
n-Butylbenzene	0.439	J	2.0	0.20	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,2-Dichlorobenzene	ND		2.0	0.60	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,2,4-Trichlorobenzene	ND		2.0	0.40	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
1,2,3-Trichlorobenzene	ND		2.0	0.60	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
2-Chloroethyl vinyl ether	ND		5.0	1.4	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Hexachloro-1,3-butadiene	0.782	J	2.0	0.60	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
4-Methyl-2-pentanone	ND		5.0	1.5	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Naphthalene	0.760	J	5.0	0.50	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
Methyl tert-butyl ether	ND		1.0	0.30	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
2-Hexanone	ND		5.0	0.50	ug/Kg		10/27/14 16:58	10/27/14 17:37	1
trans-1,4-Dichloro-2-butene	ND		5.0	1.7	ug/Kg		10/27/14 16:58	10/27/14 17:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*	*10/27/14 16:58*	*10/27/14 17:37*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 120*	*10/27/14 16:58*	*10/27/14 17:37*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 132*	*10/27/14 16:58*	*10/27/14 17:37*	*1*
Trifluorotoluene (Surr)	*103*		*65 - 140*	*10/27/14 16:58*	*10/27/14 17:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*71 - 136*	*10/27/14 16:58*	*10/27/14 17:37*	*1*

Lab Sample ID: LCS 580-174012/2-A
Matrix: Solid
Analysis Batch: 173956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	30.0	29.4		ug/Kg		98	38 - 150
Chloromethane	30.0	29.7		ug/Kg		99	55 - 136
Vinyl chloride	30.0	26.7		ug/Kg		89	67 - 131
Bromomethane	30.0	32.1		ug/Kg		107	57 - 148
Chloroethane	30.0	31.0		ug/Kg		103	48 - 167
Trichlorofluoromethane	30.0	30.2		ug/Kg		101	47 - 165
1,1-Dichloroethene	30.0	30.8		ug/Kg		103	70 - 133
Methylene Chloride	30.0	32.9		ug/Kg		110	57 - 146
trans-1,2-Dichloroethene	30.0	31.8		ug/Kg		106	76 - 131
1,1-Dichloroethane	30.0	31.6		ug/Kg		105	70 - 128
2,2-Dichloropropane	30.0	32.0		ug/Kg		107	56 - 144

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-174012/2-A
Matrix: Solid
Analysis Batch: 173956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	30.0	32.2		ug/Kg		107	70 - 130
Bromochloromethane	30.0	32.9		ug/Kg		110	78 - 123
Chloroform	30.0	31.6		ug/Kg		105	78 - 125
1,1,1-Trichloroethane	30.0	30.4		ug/Kg		101	63 - 135
Acrolein	178	215		ug/Kg		121	10 - 125
Carbon tetrachloride	30.0	30.6		ug/Kg		102	59 - 145
1,1-Dichloropropene	30.0	32.5		ug/Kg		108	77 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	30.0	30.3		ug/Kg		101	66 - 163
Benzene	30.0	31.1		ug/Kg		104	70 - 128
1,2-Dichloroethane	30.0	31.9		ug/Kg		106	71 - 128
Iodomethane	30.0	31.1		ug/Kg		104	44 - 148
Carbon disulfide	30.0	30.9		ug/Kg		103	45 - 160
Trichloroethene	30.0	32.0		ug/Kg		107	83 - 124
1,2-Dichloropropane	30.0	32.0		ug/Kg		107	76 - 161
Acetone	120	117		ug/Kg		98	20 - 160
Dibromomethane	30.0	32.7		ug/Kg		109	78 - 126
Bromodichloromethane	30.0	31.9		ug/Kg		106	58 - 133
cis-1,3-Dichloropropene	30.0	34.7		ug/Kg		116	69 - 129
Toluene	30.0	31.9		ug/Kg		106	75 - 126
trans-1,3-Dichloropropene	30.0	32.0		ug/Kg		107	72 - 129
1,1,2-Trichloroethane	30.0	32.5		ug/Kg		108	77 - 124
Acrylonitrile	300	323		ug/Kg		108	74 - 117
Tetrachloroethene	30.0	26.4		ug/Kg		88	56 - 155
1,3-Dichloropropane	30.0	32.6		ug/Kg		109	77 - 123
Chlorodibromomethane	30.0	33.3		ug/Kg		111	42 - 129
1,2-Dibromoethane	30.0	34.3		ug/Kg		114	69 - 126
Chlorobenzene	30.0	31.6		ug/Kg		105	75 - 120
Vinyl acetate	60.5	69.2		ug/Kg		114	19 - 144
Ethylbenzene	30.0	33.3		ug/Kg		111	78 - 126
1,1,1,2-Tetrachloroethane	30.0	32.6		ug/Kg		109	72 - 123
1,1,2,2-Tetrachloroethane	30.0	33.8		ug/Kg		113	73 - 125
2-Butanone	120	133		ug/Kg		111	30 - 160
m-Xylene & p-Xylene	30.0	32.6		ug/Kg		109	78 - 126
o-Xylene	30.0	33.7		ug/Kg		112	77 - 127
Styrene	30.0	31.7		ug/Kg		106	79 - 127
Bromoform	30.0	32.6		ug/Kg		109	50 - 124
Isopropylbenzene	30.0	30.9		ug/Kg		103	79 - 127
Bromobenzene	30.0	32.3		ug/Kg		108	80 - 120
N-Propylbenzene	30.0	31.0		ug/Kg		103	81 - 127
1,2,3-Trichloropropane	30.0	34.1		ug/Kg		114	77 - 123
2-Chlorotoluene	30.0	30.8		ug/Kg		103	79 - 122
1,3,5-Trimethylbenzene	30.0	30.9		ug/Kg		103	80 - 125
4-Chlorotoluene	30.0	29.7		ug/Kg		99	80 - 122
tert-Butylbenzene	30.0	30.1		ug/Kg		100	71 - 136
1,2,4-Trimethylbenzene	30.0	30.8		ug/Kg		103	79 - 124
sec-Butylbenzene	30.0	31.6		ug/Kg		105	78 - 128
1,3-Dichlorobenzene	30.0	31.8		ug/Kg		106	79 - 119

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-174012/2-A
Matrix: Solid
Analysis Batch: 173956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Isopropyltoluene	30.0	32.8		ug/Kg		109	78 - 126
1,4-Dichlorobenzene	30.0	31.5		ug/Kg		105	79 - 117
n-Butylbenzene	30.0	30.9		ug/Kg		103	78 - 128
1,2-Dichlorobenzene	30.0	32.2		ug/Kg		107	79 - 117
1,2-Dibromo-3-Chloropropane	30.0	31.9		ug/Kg		106	53 - 132
1,2,4-Trichlorobenzene	30.0	33.9		ug/Kg		113	61 - 130
1,2,3-Trichlorobenzene	30.0	34.2		ug/Kg		114	61 - 130
2-Chloroethyl vinyl ether	30.0	29.1		ug/Kg		97	60 - 150
Hexachloro-1,3-butadiene	30.0	30.7		ug/Kg		102	68 - 134
4-Methyl-2-pentanone	120	130		ug/Kg		108	45 - 145
Naphthalene	30.0	32.3		ug/Kg		108	14 - 170
Methyl tert-butyl ether	30.0	34.5		ug/Kg		115	65 - 125
2-Hexanone	120	139		ug/Kg		116	45 - 145
trans-1,4-Dichloro-2-butene	30.0	30.8		ug/Kg		103	42 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*70 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 132*
Trifluorotoluene (Surr)	*96*		*65 - 140*
1,2-Dichloroethane-d4 (Surr)	*100*		*71 - 136*

Lab Sample ID: LCSD 580-174012/3-A
Matrix: Solid
Analysis Batch: 173956

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 174012

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	30.0	29.7		ug/Kg		99	38 - 150	1	26
Chloromethane	30.0	29.7		ug/Kg		99	55 - 136	0	26
Vinyl chloride	30.0	27.4		ug/Kg		91	67 - 131	3	22
Bromomethane	30.0	31.9		ug/Kg		106	57 - 148	0	29
Chloroethane	30.0	30.7		ug/Kg		102	48 - 167	1	53
Trichlorofluoromethane	30.0	30.9		ug/Kg		103	47 - 165	2	54
1,1-Dichloroethene	30.0	30.7		ug/Kg		102	70 - 133	0	23
Methylene Chloride	30.0	32.7		ug/Kg		109	57 - 146	1	21
trans-1,2-Dichloroethene	30.0	32.2		ug/Kg		107	76 - 131	1	18
1,1-Dichloroethane	30.0	31.6		ug/Kg		105	70 - 128	0	21
2,2-Dichloropropane	30.0	31.3		ug/Kg		104	56 - 144	2	21
cis-1,2-Dichloroethene	30.0	31.2		ug/Kg		104	70 - 130	3	19
Bromochloromethane	30.0	32.6		ug/Kg		109	78 - 123	1	19
Chloroform	30.0	31.3		ug/Kg		104	78 - 125	1	17
1,1,1-Trichloroethane	30.0	30.9		ug/Kg		103	63 - 135	2	20
Acrolein	178	217		ug/Kg		122	10 - 125	1	30
Carbon tetrachloride	30.0	31.2		ug/Kg		104	59 - 145	2	19
1,1-Dichloropropene	30.0	32.5		ug/Kg		108	77 - 125	0	16
1,1,2-Trichloro-1,2,2-trifluoroethane	30.0	31.5		ug/Kg		105	66 - 163	4	30
Benzene	30.0	30.8		ug/Kg		103	70 - 128	1	19

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-174012/3-A
Matrix: Solid
Analysis Batch: 173956

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 174012

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	30.0	31.2		ug/Kg		104	71 - 128	2	18
Iodomethane	30.0	31.3		ug/Kg		104	44 - 148	1	30
Carbon disulfide	30.0	31.6		ug/Kg		105	45 - 160	2	30
Trichloroethene	30.0	31.6		ug/Kg		105	83 - 124	1	17
1,2-Dichloropropane	30.0	31.3		ug/Kg		104	76 - 161	2	15
Acetone	120	120		ug/Kg		100	20 - 160	2	30
Dibromomethane	30.0	32.7		ug/Kg		109	78 - 126	0	18
Bromodichloromethane	30.0	30.6		ug/Kg		102	58 - 133	4	19
cis-1,3-Dichloropropene	30.0	33.7		ug/Kg		112	69 - 129	3	19
Toluene	30.0	31.8		ug/Kg		106	75 - 126	0	19
trans-1,3-Dichloropropene	30.0	30.5		ug/Kg		102	72 - 129	5	20
1,1,2-Trichloroethane	30.0	33.3		ug/Kg		111	77 - 124	2	18
Acrylonitrile	300	328		ug/Kg		109	74 - 117	2	30
Tetrachloroethene	30.0	27.0		ug/Kg		90	56 - 155	2	27
1,3-Dichloropropane	30.0	31.8		ug/Kg		106	77 - 123	3	19
Chlorodibromomethane	30.0	32.5		ug/Kg		108	42 - 129	2	23
1,2-Dibromoethane	30.0	32.9		ug/Kg		110	69 - 126	4	21
Chlorobenzene	30.0	30.8		ug/Kg		103	75 - 120	3	21
Vinyl acetate	60.5	65.8		ug/Kg		109	19 - 144	5	30
Ethylbenzene	30.0	34.0		ug/Kg		113	78 - 126	2	23
1,1,1,2-Tetrachloroethane	30.0	32.8		ug/Kg		109	72 - 123	1	20
1,1,2,2-Tetrachloroethane	30.0	34.6		ug/Kg		115	73 - 125	2	22
2-Butanone	120	132		ug/Kg		110	30 - 160	1	30
m-Xylene & p-Xylene	30.0	33.0		ug/Kg		110	78 - 126	1	23
o-Xylene	30.0	34.4		ug/Kg		115	77 - 127	2	22
Styrene	30.0	31.6		ug/Kg		105	79 - 127	0	21
Bromoform	30.0	31.8		ug/Kg		106	50 - 124	2	25
Isopropylbenzene	30.0	31.3		ug/Kg		104	79 - 127	1	20
Bromobenzene	30.0	31.1		ug/Kg		104	80 - 120	4	19
N-Propylbenzene	30.0	30.7		ug/Kg		102	81 - 127	1	20
1,2,3-Trichloropropane	30.0	34.0		ug/Kg		113	77 - 123	0	23
2-Chlorotoluene	30.0	30.4		ug/Kg		101	79 - 122	1	18
1,3,5-Trimethylbenzene	30.0	29.8		ug/Kg		99	80 - 125	4	18
4-Chlorotoluene	30.0	29.0		ug/Kg		97	80 - 122	3	18
tert-Butylbenzene	30.0	28.7		ug/Kg		96	71 - 136	5	27
1,2,4-Trimethylbenzene	30.0	30.3		ug/Kg		101	79 - 124	2	18
sec-Butylbenzene	30.0	30.6		ug/Kg		102	78 - 128	3	17
1,3-Dichlorobenzene	30.0	31.2		ug/Kg		104	79 - 119	2	17
4-Isopropyltoluene	30.0	31.8		ug/Kg		106	78 - 126	3	18
1,4-Dichlorobenzene	30.0	30.8		ug/Kg		103	79 - 117	2	18
n-Butylbenzene	30.0	30.4		ug/Kg		101	78 - 128	2	17
1,2-Dichlorobenzene	30.0	31.7		ug/Kg		106	79 - 117	2	17
1,2-Dibromo-3-Chloropropane	30.0	32.2		ug/Kg		107	53 - 132	1	27
1,2,4-Trichlorobenzene	30.0	33.3		ug/Kg		111	61 - 130	2	22
1,2,3-Trichlorobenzene	30.0	33.5		ug/Kg		112	61 - 130	2	23
2-Chloroethyl vinyl ether	30.0	28.8		ug/Kg		96	60 - 150	1	30
Hexachloro-1,3-butadiene	30.0	29.6		ug/Kg		99	68 - 134	4	21
4-Methyl-2-pentanone	120	137		ug/Kg		114	45 - 145	6	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-174012/3-A
Matrix: Solid
Analysis Batch: 173956

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 174012

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			30.0	32.6		ug/Kg		109	14 - 170	1	50
Methyl tert-butyl ether			30.0	35.0		ug/Kg		117	65 - 125	2	30
2-Hexanone			120	144		ug/Kg		120	45 - 145	4	30
trans-1,4-Dichloro-2-butene			30.0	30.7		ug/Kg		102	42 - 160	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*70 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 132*
Trifluorotoluene (Surr)	*100*		*65 - 140*
1,2-Dichloroethane-d4 (Surr)	*100*		*71 - 136*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-172794/1-A
Matrix: Water
Analysis Batch: 173503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 172794

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.60	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
Bis(2-chloroethyl)ether	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
2-Chlorophenol	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
1,3-Dichlorobenzene	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
1,4-Dichlorobenzene	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
Benzyl alcohol	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
1,2-Dichlorobenzene	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
2-Methylphenol	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
2,2'-oxybis[1-chloropropane]	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
3 & 4 Methylphenol	ND		0.80	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
N-Nitrosodi-n-propylamine	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
Hexachloroethane	ND		0.60	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
Nitrobenzene	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
Isophorone	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
2-Nitrophenol	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
2,4-Dimethylphenol	ND		2.0	0.30	ug/L		10/15/14 13:10	10/22/14 15:19	1
Benzoic acid	ND		3.0	0.60	ug/L		10/15/14 13:10	10/22/14 15:19	1
Bis(2-chloroethoxy)methane	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
2,4-Dichlorophenol	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
1,2,4-Trichlorobenzene	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
Naphthalene	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
4-Chloroaniline	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
Hexachlorobutadiene	ND		0.60	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
4-Chloro-3-methylphenol	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		10/15/14 13:10	10/22/14 15:19	1
1-Methylnaphthalene	ND		0.060	0.030	ug/L		10/15/14 13:10	10/22/14 15:19	1
Hexachlorocyclopentadiene	ND		2.0	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
2,4,6-Trichlorophenol	ND		0.60	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
2,4,5-Trichlorophenol	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-172794/1-A
Matrix: Water
Analysis Batch: 173503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 172794

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		0.060	0.020	ug/L		10/15/14 13:10	10/22/14 15:19	1
2-Nitroaniline	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
Dimethyl phthalate	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
Acenaphthylene	ND		0.080	0.020	ug/L		10/15/14 13:10	10/22/14 15:19	1
2,6-Dinitrotoluene	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
3-Nitroaniline	ND		0.40	0.12	ug/L		10/15/14 13:10	10/22/14 15:19	1
Acenaphthene	ND		0.10	0.020	ug/L		10/15/14 13:10	10/22/14 15:19	1
2,4-Dinitrophenol	ND		5.0	1.0	ug/L		10/15/14 13:10	10/22/14 15:19	1
4-Nitrophenol	ND		3.0	1.0	ug/L		10/15/14 13:10	10/22/14 15:19	1
Dibenzofuran	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
2,4-Dinitrotoluene	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
Diethyl phthalate	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
4-Chlorophenyl phenyl ether	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
Fluorene	ND		0.060	0.020	ug/L		10/15/14 13:10	10/22/14 15:19	1
4-Nitroaniline	ND		0.60	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
4,6-Dinitro-2-methylphenol	ND		4.0	1.0	ug/L		10/15/14 13:10	10/22/14 15:19	1
N-Nitrosodiphenylamine	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
4-Bromophenyl phenyl ether	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
Hexachlorobenzene	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
Pentachlorophenol	ND		0.70	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
Phenanthrene	ND		0.080	0.020	ug/L		10/15/14 13:10	10/22/14 15:19	1
Anthracene	ND		0.040	0.010	ug/L		10/15/14 13:10	10/22/14 15:19	1
Carbazole	ND		0.40	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
Di-n-butyl phthalate	ND		0.40	0.13	ug/L		10/15/14 13:10	10/22/14 15:19	1
Fluoranthene	ND		0.050	0.013	ug/L		10/15/14 13:10	10/22/14 15:19	1
Pyrene	ND		0.060	0.013	ug/L		10/15/14 13:10	10/22/14 15:19	1
Butyl benzyl phthalate	ND		0.60	0.20	ug/L		10/15/14 13:10	10/22/14 15:19	1
3,3'-Dichlorobenzidine	ND		2.0	0.10	ug/L		10/15/14 13:10	10/22/14 15:19	1
Benzo[a]anthracene	ND		0.060	0.020	ug/L		10/15/14 13:10	10/22/14 15:19	1
Chrysene	ND		0.040	0.013	ug/L		10/15/14 13:10	10/22/14 15:19	1
Bis(2-ethylhexyl) phthalate	17.1		3.0	1.2	ug/L		10/15/14 13:10	10/22/14 15:19	1
Di-n-octyl phthalate	ND		0.40	0.18	ug/L		10/15/14 13:10	10/22/14 15:19	1
Benzo[b]fluoranthene	ND		0.080	0.020	ug/L		10/15/14 13:10	10/22/14 15:19	1
Benzo[k]fluoranthene	ND		0.060	0.020	ug/L		10/15/14 13:10	10/22/14 15:19	1
Benzo[a]pyrene	ND		0.040	0.020	ug/L		10/15/14 13:10	10/22/14 15:19	1
Indeno[1,2,3-cd]pyrene	ND		0.060	0.020	ug/L		10/15/14 13:10	10/22/14 15:19	1
Dibenz(a,h)anthracene	ND		0.060	0.020	ug/L		10/15/14 13:10	10/22/14 15:19	1
Benzo[g,h,i]perylene	ND		0.060	0.020	ug/L		10/15/14 13:10	10/22/14 15:19	1
N-Nitrosodimethylamine	ND		2.0	0.20	ug/L		10/15/14 13:10	10/22/14 15:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*69*		*30 - 134*	*10/15/14 13:10*	*10/22/14 15:19*	*1*
Phenol-d5	*75*		*52 - 120*	*10/15/14 13:10*	*10/22/14 15:19*	*1*
2,4,6-Tribromophenol	*88*		*44 - 125*	*10/15/14 13:10*	*10/22/14 15:19*	*1*
Nitrobenzene-d5	*83*		*59 - 120*	*10/15/14 13:10*	*10/22/14 15:19*	*1*
2-Fluorobiphenyl	*77*		*50 - 120*	*10/15/14 13:10*	*10/22/14 15:19*	*1*
Terphenyl-d14	*102*		*64 - 150*	*10/15/14 13:10*	*10/22/14 15:19*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-172794/2-A
Matrix: Water
Analysis Batch: 173503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 172794

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	2.00	1.82		ug/L		91	53 - 130
Bis(2-chloroethyl)ether	2.00	1.73		ug/L		87	55 - 125
2-Chlorophenol	2.00	1.78		ug/L		89	57 - 125
1,3-Dichlorobenzene	2.00	1.23		ug/L		61	40 - 125
1,4-Dichlorobenzene	2.00	1.27		ug/L		63	40 - 125
Benzyl alcohol	2.00	1.83		ug/L		92	41 - 144
1,2-Dichlorobenzene	2.00	1.38		ug/L		69	44 - 125
2-Methylphenol	2.00	1.80		ug/L		90	60 - 130
2,2'-oxybis[1-chloropropane]	2.00	1.61		ug/L		80	44 - 130
3 & 4 Methylphenol	2.00	1.91		ug/L		96	60 - 130
N-Nitrosodi-n-propylamine	2.00	1.76		ug/L		88	60 - 120
Hexachloroethane	2.00	1.11		ug/L		55	30 - 125
Nitrobenzene	2.00	1.75		ug/L		87	62 - 125
Isophorone	2.00	1.90		ug/L		95	64 - 125
2-Nitrophenol	2.00	1.88		ug/L		94	55 - 140
2,4-Dimethylphenol	2.00	1.65	J	ug/L		83	30 - 135
Benzoic acid	4.00	2.22	J	ug/L		56	20 - 144
Bis(2-chloroethoxy)methane	2.00	1.81		ug/L		91	59 - 125
2,4-Dichlorophenol	2.00	1.92		ug/L		96	50 - 140
1,2,4-Trichlorobenzene	2.00	1.43		ug/L		71	40 - 125
Naphthalene	2.00	1.56		ug/L		78	56 - 125
4-Chloroaniline	2.00	1.43		ug/L		71	20 - 150
Hexachlorobutadiene	2.00	1.30		ug/L		65	25 - 125
4-Chloro-3-methylphenol	2.00	1.86		ug/L		93	65 - 145
2-Methylnaphthalene	2.00	1.56		ug/L		78	56 - 125
1-Methylnaphthalene	2.00	1.66		ug/L		83	54 - 125
Hexachlorocyclopentadiene	2.00	1.04	J	ug/L		52	20 - 125
2,4,6-Trichlorophenol	2.00	1.84		ug/L		92	55 - 140
2,4,5-Trichlorophenol	2.00	1.92		ug/L		96	66 - 130
2-Chloronaphthalene	2.00	1.68		ug/L		84	55 - 125
2-Nitroaniline	2.00	2.15		ug/L		107	52 - 140
Dimethyl phthalate	2.00	1.96		ug/L		98	65 - 155
Acenaphthylene	2.00	1.88		ug/L		94	62 - 125
2,6-Dinitrotoluene	2.00	1.82		ug/L		91	67 - 134
3-Nitroaniline	2.00	1.60		ug/L		80	22 - 124
Acenaphthene	2.00	1.74		ug/L		87	63 - 125
2,4-Dinitrophenol	4.00	2.91	J	ug/L		73	24 - 146
4-Nitrophenol	4.00	3.76		ug/L		94	35 - 153
Dibenzofuran	2.00	1.84		ug/L		92	60 - 125
2,4-Dinitrotoluene	2.00	1.99		ug/L		100	73 - 126
Diethyl phthalate	2.00	2.03		ug/L		102	60 - 150
4-Chlorophenyl phenyl ether	2.00	2.07		ug/L		103	59 - 125
Fluorene	2.00	1.87		ug/L		93	69 - 125
4-Nitroaniline	2.00	1.62		ug/L		81	49 - 125
4,6-Dinitro-2-methylphenol	4.00	3.24	J	ug/L		81	50 - 136
N-Nitrosodiphenylamine	2.00	1.73		ug/L		87	40 - 135
4-Bromophenyl phenyl ether	2.00	2.16		ug/L		108	62 - 132
Hexachlorobenzene	2.00	1.93		ug/L		96	61 - 125

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-172794/2-A
Matrix: Water
Analysis Batch: 173503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 172794

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	4.00	2.55		ug/L		64	20 - 145
Phenanthrene	2.00	1.88		ug/L		94	70 - 125
Anthracene	2.00	1.75		ug/L		88	50 - 125
Carbazole	2.00	2.00		ug/L		100	75 - 142
Di-n-butyl phthalate	2.00	2.07		ug/L		104	55 - 167
Fluoranthene	2.00	2.01		ug/L		100	70 - 145
Pyrene	2.00	1.96		ug/L		98	70 - 133
Butyl benzyl phthalate	2.00	2.08		ug/L		104	60 - 167
3,3'-Dichlorobenzidine	4.00	3.32		ug/L		83	20 - 175
Benzo[a]anthracene	2.00	1.91		ug/L		96	65 - 125
Chrysene	2.00	1.81		ug/L		91	70 - 125
Bis(2-ethylhexyl) phthalate	2.00	1.99	J	ug/L		99	70 - 185
Di-n-octyl phthalate	2.00	1.81		ug/L		90	55 - 150
Benzo[b]fluoranthene	2.00	1.79		ug/L		90	70 - 129
Benzo[k]fluoranthene	2.00	1.82		ug/L		91	70 - 123
Benzo[a]pyrene	2.00	1.84		ug/L		92	45 - 125
Indeno[1,2,3-cd]pyrene	2.00	1.94		ug/L		97	70 - 136
Dibenz(a,h)anthracene	2.00	1.90		ug/L		95	69 - 154
Benzo[g,h,i]perylene	2.00	1.86		ug/L		93	65 - 153
N-Nitrosodimethylamine	2.00	1.85	J	ug/L		93	33 - 143

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*70*		*30 - 134*
Phenol-d5	*76*		*52 - 120*
2,4,6-Tribromophenol	*101*		*44 - 125*
Nitrobenzene-d5	*92*		*59 - 120*
2-Fluorobiphenyl	*83*		*50 - 120*
Terphenyl-d14	*100*		*64 - 150*

Lab Sample ID: LCSD 580-172794/3-A
Matrix: Water
Analysis Batch: 173503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 172794

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	2.00	1.76		ug/L		88	53 - 130	4	20
Bis(2-chloroethyl)ether	2.00	1.72		ug/L		86	55 - 125	1	20
2-Chlorophenol	2.00	1.82		ug/L		91	57 - 125	2	20
1,3-Dichlorobenzene	2.00	1.13		ug/L		56	40 - 125	8	20
1,4-Dichlorobenzene	2.00	1.15		ug/L		58	40 - 125	10	20
Benzyl alcohol	2.00	2.09		ug/L		105	41 - 144	13	20
1,2-Dichlorobenzene	2.00	1.24		ug/L		62	44 - 125	11	20
2-Methylphenol	2.00	1.77		ug/L		89	60 - 130	1	20
2,2'-oxybis[1-chloropropane]	2.00	1.59		ug/L		80	44 - 130	1	20
3 & 4 Methylphenol	2.00	1.91		ug/L		95	60 - 130	0	20
N-Nitrosodi-n-propylamine	2.00	1.94		ug/L		97	60 - 120	10	20
Hexachloroethane	2.00	1.05		ug/L		53	30 - 125	5	20
Nitrobenzene	2.00	1.77		ug/L		88	62 - 125	1	20
Isophorone	2.00	1.92		ug/L		96	64 - 125	1	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-172794/3-A
Matrix: Water
Analysis Batch: 173503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 172794

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Nitrophenol	2.00	1.94		ug/L		97	55 - 140	3	20
2,4-Dimethylphenol	2.00	1.39	J	ug/L		69	30 - 135	17	20
Benzoic acid	4.00	3.16	*	ug/L		79	20 - 144	35	20
Bis(2-chloroethoxy)methane	2.00	1.87		ug/L		93	59 - 125	3	20
2,4-Dichlorophenol	2.00	1.95		ug/L		98	50 - 140	2	20
1,2,4-Trichlorobenzene	2.00	1.28		ug/L		64	40 - 125	11	20
Naphthalene	2.00	1.52		ug/L		76	56 - 125	3	20
4-Chloroaniline	2.00	0.564	*	ug/L		28	20 - 150	87	20
Hexachlorobutadiene	2.00	1.16		ug/L		58	25 - 125	12	20
4-Chloro-3-methylphenol	2.00	1.85		ug/L		92	65 - 145	1	20
2-Methylnaphthalene	2.00	1.45		ug/L		73	56 - 125	7	20
1-Methylnaphthalene	2.00	1.55		ug/L		78	54 - 125	7	20
Hexachlorocyclopentadiene	2.00	1.02	J	ug/L		51	20 - 125	2	20
2,4,6-Trichlorophenol	2.00	1.72		ug/L		86	55 - 140	7	20
2,4,5-Trichlorophenol	2.00	1.77		ug/L		88	66 - 130	8	20
2-Chloronaphthalene	2.00	1.47		ug/L		74	55 - 125	13	20
2-Nitroaniline	2.00	1.91		ug/L		95	52 - 140	12	20
Dimethyl phthalate	2.00	1.83		ug/L		91	65 - 155	7	20
Acenaphthylene	2.00	1.73		ug/L		87	62 - 125	8	20
2,6-Dinitrotoluene	2.00	1.85		ug/L		93	67 - 134	2	20
3-Nitroaniline	2.00	1.38		ug/L		69	22 - 124	15	20
Acenaphthene	2.00	1.58		ug/L		79	63 - 125	9	20
2,4-Dinitrophenol	4.00	2.83	J	ug/L		71	24 - 146	3	20
4-Nitrophenol	4.00	4.57		ug/L		114	35 - 153	20	20
Dibenzofuran	2.00	1.69		ug/L		85	60 - 125	8	20
2,4-Dinitrotoluene	2.00	1.85		ug/L		92	73 - 126	8	20
Diethyl phthalate	2.00	2.05		ug/L		103	60 - 150	1	20
4-Chlorophenyl phenyl ether	2.00	1.79		ug/L		90	59 - 125	14	20
Fluorene	2.00	1.76		ug/L		88	69 - 125	6	20
4-Nitroaniline	2.00	1.62		ug/L		81	49 - 125	0	20
4,6-Dinitro-2-methylphenol	4.00	3.40	J	ug/L		85	50 - 136	5	20
N-Nitrosodiphenylamine	2.00	1.74		ug/L		87	40 - 135	1	20
4-Bromophenyl phenyl ether	2.00	2.05		ug/L		103	62 - 132	5	20
Hexachlorobenzene	2.00	1.91		ug/L		96	61 - 125	1	20
Pentachlorophenol	4.00	2.03	*	ug/L		51	20 - 145	23	20
Phenanthrene	2.00	1.82		ug/L		91	70 - 125	3	20
Anthracene	2.00	1.70		ug/L		85	50 - 125	3	20
Carbazole	2.00	1.90		ug/L		95	75 - 142	5	20
Di-n-butyl phthalate	2.00	2.07		ug/L		103	55 - 167	0	20
Fluoranthene	2.00	2.00		ug/L		100	70 - 145	0	20
Pyrene	2.00	1.91		ug/L		95	70 - 133	3	20
Butyl benzyl phthalate	2.00	1.95		ug/L		97	60 - 167	6	20
3,3'-Dichlorobenzidine	4.00	2.92		ug/L		73	20 - 175	13	20
Benzo[a]anthracene	2.00	1.89		ug/L		94	65 - 125	1	20
Chrysene	2.00	1.78		ug/L		89	70 - 125	2	20
Bis(2-ethylhexyl) phthalate	2.00	2.55	J *	ug/L		128	70 - 185	25	20
Di-n-octyl phthalate	2.00	1.86		ug/L		93	55 - 150	3	20
Benzo[b]fluoranthene	2.00	1.92		ug/L		96	70 - 129	7	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-172794/3-A
Matrix: Water
Analysis Batch: 173503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 172794

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[k]fluoranthene			2.00	1.87		ug/L		93	70 - 123	2	20
Benzo[a]pyrene			2.00	1.83		ug/L		92	45 - 125	0	20
Indeno[1,2,3-cd]pyrene			2.00	2.01		ug/L		101	70 - 136	3	20
Dibenz(a,h)anthracene			2.00	2.03		ug/L		102	69 - 154	6	20
Benzo[g,h,i]perylene			2.00	1.98		ug/L		99	65 - 153	6	20
N-Nitrosodimethylamine			2.00	1.83	J	ug/L		92	33 - 143	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol	*74*		*30 - 134*
Phenol-d5	*81*		*52 - 120*
2,4,6-Tribromophenol	*99*		*44 - 125*
Nitrobenzene-d5	*83*		*59 - 120*
2-Fluorobiphenyl	*80*		*50 - 120*
Terphenyl-d14	*96*		*64 - 150*

Lab Sample ID: MB 580-172868/1-A
Matrix: Solid
Analysis Batch: 172999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 172868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Bis(2-chloroethyl)ether	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
2-Chlorophenol	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
1,3-Dichlorobenzene	ND		5.0	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
1,4-Dichlorobenzene	ND		5.0	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Benzyl alcohol	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
1,2-Dichlorobenzene	ND		5.5	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
2-Methylphenol	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
2,2'-oxybis[1-chloropropane]	ND		25	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
3 & 4 Methylphenol	ND		20	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
N-Nitrosodi-n-propylamine	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Hexachloroethane	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Nitrobenzene	ND		10	3.4	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Isophorone	ND		10	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
2-Nitrophenol	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
2,4-Dimethylphenol	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Benzoic acid	ND		250	75	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Bis(2-chloroethoxy)methane	ND		10	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
2,4-Dichlorophenol	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
1,2,4-Trichlorobenzene	ND		5.0	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Naphthalene	ND		2.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
4-Chloroaniline	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Hexachlorobutadiene	ND		5.0	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
4-Chloro-3-methylphenol	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
2-Methylnaphthalene	ND		2.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
1-Methylnaphthalene	ND		3.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Hexachlorocyclopentadiene	ND		10	1.0	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
2,4,6-Trichlorophenol	ND		15	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-172868/1-A
Matrix: Solid
Analysis Batch: 172999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 172868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
2-Chloronaphthalene	ND		2.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
2-Nitroaniline	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Dimethyl phthalate	ND		10	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Acenaphthylene	ND		2.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
2,6-Dinitrotoluene	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
3-Nitroaniline	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Acenaphthene	ND		2.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
2,4-Dinitrophenol	ND		100	20	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
4-Nitrophenol	ND	^	100	25	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Dibenzofuran	ND		10	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
2,4-Dinitrotoluene	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Diethyl phthalate	ND		20	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
4-Chlorophenyl phenyl ether	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Fluorene	ND		2.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
4-Nitroaniline	ND		10	2.0	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
4,6-Dinitro-2-methylphenol	ND		100	10	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
4-Bromophenyl phenyl ether	ND		10	1.5	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Hexachlorobenzene	ND		5.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Pentachlorophenol	ND		20	2.0	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Phenanthrene	ND		2.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Anthracene	ND		2.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Carbazole	ND		10	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Di-n-butyl phthalate	7.13	J	50	5.0	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Fluoranthene	ND		2.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Pyrene	ND		2.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Butyl benzyl phthalate	6.05	J	20	5.0	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
3,3'-Dichlorobenzidine	ND		20	3.0	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Benzo[a]anthracene	ND		2.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Chrysene	ND		2.5	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Bis(2-ethylhexyl) phthalate	6.88	J	60	5.0	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Di-n-octyl phthalate	ND		50	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Benzo[b]fluoranthene	ND		2.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Benzo[k]fluoranthene	ND		2.5	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Benzo[a]pyrene	ND		3.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Dibenz(a,h)anthracene	ND		4.0	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
Benzo[g,h,i]perylene	ND		2.5	0.50	ug/Kg		10/16/14 09:52	10/17/14 14:31	1
N-Nitrosodimethylamine	ND		100	25	ug/Kg		10/16/14 09:52	10/17/14 14:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*60*		*36 - 145*	*10/16/14 09:52*	*10/17/14 14:31*	*1*
Phenol-d5	*65*		*38 - 149*	*10/16/14 09:52*	*10/17/14 14:31*	*1*
2,4,6-Tribromophenol	*73*		*28 - 143*	*10/16/14 09:52*	*10/17/14 14:31*	*1*
Nitrobenzene-d5	*65*		*38 - 141*	*10/16/14 09:52*	*10/17/14 14:31*	*1*
2-Fluorobiphenyl	*66*		*42 - 140*	*10/16/14 09:52*	*10/17/14 14:31*	*1*
Terphenyl-d14	*76*		*42 - 151*	*10/16/14 09:52*	*10/17/14 14:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-172868/2-A
Matrix: Solid
Analysis Batch: 172999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 172868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	100	61.6	*	ug/Kg		62	63 - 111
Bis(2-chloroethyl)ether	100	52.7	*	ug/Kg		53	62 - 110
2-Chlorophenol	100	61.5	*	ug/Kg		61	68 - 117
1,3-Dichlorobenzene	100	49.4	*	ug/Kg		49	64 - 111
1,4-Dichlorobenzene	100	49.4	*	ug/Kg		49	65 - 110
Benzyl alcohol	100	59.0		ug/Kg		59	55 - 123
1,2-Dichlorobenzene	100	48.2	*	ug/Kg		48	64 - 112
2-Methylphenol	100	66.4	*	ug/Kg		66	71 - 116
2,2'-oxybis[1-chloropropane]	100	48.0		ug/Kg		48	41 - 126
3 & 4 Methylphenol	100	62.3	*	ug/Kg		62	70 - 116
N-Nitrosodi-n-propylamine	100	58.3	*	ug/Kg		58	62 - 116
Hexachloroethane	100	52.6	*	ug/Kg		53	62 - 120
Nitrobenzene	100	58.2	*	ug/Kg		58	64 - 118
Isophorone	100	61.7	*	ug/Kg		62	67 - 119
2-Nitrophenol	100	59.9	*	ug/Kg		60	67 - 127
2,4-Dimethylphenol	100	68.2		ug/Kg		68	54 - 139
Benzoic acid	200	129	J	ug/Kg		65	29 - 158
Bis(2-chloroethoxy)methane	100	61.7	*	ug/Kg		62	69 - 107
2,4-Dichlorophenol	100	72.8		ug/Kg		73	68 - 125
1,2,4-Trichlorobenzene	100	55.4	*	ug/Kg		55	66 - 115
Naphthalene	100	54.3	*	ug/Kg		54	62 - 112
4-Chloroaniline	100	36.5		ug/Kg		36	20 - 103
Hexachlorobutadiene	100	58.6	*	ug/Kg		59	65 - 116
4-Chloro-3-methylphenol	100	70.8		ug/Kg		71	69 - 121
2-Methylnaphthalene	100	56.4	*	ug/Kg		56	64 - 119
1-Methylnaphthalene	100	57.7	*	ug/Kg		58	62 - 118
Hexachlorocyclopentadiene	100	55.4		ug/Kg		55	46 - 131
2,4,6-Trichlorophenol	100	61.5		ug/Kg		62	62 - 133
2,4,5-Trichlorophenol	100	66.7		ug/Kg		67	57 - 133
2-Chloronaphthalene	100	54.8	*	ug/Kg		55	68 - 112
2-Nitroaniline	100	65.6		ug/Kg		66	64 - 112
Dimethyl phthalate	100	68.0	*	ug/Kg		68	78 - 117
Acenaphthylene	100	61.7	*	ug/Kg		62	68 - 120
2,6-Dinitrotoluene	100	65.6		ug/Kg		66	66 - 123
3-Nitroaniline	100	49.0		ug/Kg		49	27 - 103
Acenaphthene	100	54.3	*	ug/Kg		54	68 - 116
2,4-Dinitrophenol	200	128		ug/Kg		64	20 - 141
4-Nitrophenol	200	258	^	ug/Kg		129	20 - 165
Dibenzofuran	100	60.1	*	ug/Kg		60	72 - 109
2,4-Dinitrotoluene	100	64.1	*	ug/Kg		64	68 - 121
Diethyl phthalate	100	71.8	*	ug/Kg		72	73 - 116
4-Chlorophenyl phenyl ether	100	67.9	*	ug/Kg		68	75 - 108
Fluorene	100	60.4	*	ug/Kg		60	70 - 121
4-Nitroaniline	100	60.2		ug/Kg		60	58 - 108
4,6-Dinitro-2-methylphenol	200	129		ug/Kg		65	48 - 130
N-Nitrosodiphenylamine	100	62.7	*	ug/Kg		63	73 - 115
4-Bromophenyl phenyl ether	100	67.9		ug/Kg		68	68 - 122
Hexachlorobenzene	100	64.2	*	ug/Kg		64	66 - 117

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-172868/2-A
Matrix: Solid
Analysis Batch: 172999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 172868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	200	127		ug/Kg		64	45 - 117
Phenanthrene	100	63.1	*	ug/Kg		63	73 - 106
Anthracene	100	61.6	*	ug/Kg		62	73 - 116
Carbazole	100	69.5	*	ug/Kg		70	76 - 135
Di-n-butyl phthalate	100	69.7		ug/Kg		70	66 - 140
Fluoranthene	100	71.3	*	ug/Kg		71	73 - 125
Pyrene	100	65.1	*	ug/Kg		65	70 - 120
Butyl benzyl phthalate	100	74.0		ug/Kg		74	69 - 142
3,3'-Dichlorobenzidine	200	117		ug/Kg		58	20 - 103
Benzo[a]anthracene	100	68.2	*	ug/Kg		68	76 - 119
Chrysene	100	67.9	*	ug/Kg		68	75 - 114
Bis(2-ethylhexyl) phthalate	100	69.2		ug/Kg		69	62 - 144
Di-n-octyl phthalate	100	60.9	*	ug/Kg		61	65 - 141
Benzo[b]fluoranthene	100	58.4	*	ug/Kg		58	63 - 132
Benzo[k]fluoranthene	100	68.4		ug/Kg		68	63 - 119
Benzo[a]pyrene	100	67.9	*	ug/Kg		68	72 - 117
Indeno[1,2,3-cd]pyrene	100	71.9		ug/Kg		72	56 - 127
Dibenz(a,h)anthracene	100	61.7		ug/Kg		62	56 - 134
Benzo[g,h,i]perylene	100	65.1		ug/Kg		65	55 - 139
N-Nitrosodimethylamine	100	60.7	J	ug/Kg		61	38 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*50*		*36 - 145*
Phenol-d5	*57*		*38 - 149*
2,4,6-Tribromophenol	*63*		*28 - 143*
Nitrobenzene-d5	*54*		*38 - 141*
2-Fluorobiphenyl	*52*		*42 - 140*
Terphenyl-d14	*65*		*42 - 151*

Lab Sample ID: LCSD 580-172868/3-A
Matrix: Solid
Analysis Batch: 172999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 172868

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	100	65.5		ug/Kg		66	63 - 111	6	26
Bis(2-chloroethyl)ether	100	59.6	*	ug/Kg		60	62 - 110	12	22
2-Chlorophenol	100	66.5	*	ug/Kg		67	68 - 117	8	27
1,3-Dichlorobenzene	100	59.3	*	ug/Kg		59	64 - 111	18	30
1,4-Dichlorobenzene	100	60.4	*	ug/Kg		60	65 - 110	20	30
Benzyl alcohol	100	2.36	J *	ug/Kg		2	55 - 123	185	60
1,2-Dichlorobenzene	100	59.9	*	ug/Kg		60	64 - 112	22	30
2-Methylphenol	100	69.8	*	ug/Kg		70	71 - 116	5	25
2,2'-oxybis[1-chloropropane]	100	58.9		ug/Kg		59	41 - 126	20	57
3 & 4 Methylphenol	100	74.9		ug/Kg		75	70 - 116	18	27
N-Nitrosodi-n-propylamine	100	66.0		ug/Kg		66	62 - 116	12	28
Hexachloroethane	100	58.8	*	ug/Kg		59	62 - 120	11	30
Nitrobenzene	100	67.2		ug/Kg		67	64 - 118	14	30
Isophorone	100	68.1		ug/Kg		68	67 - 119	10	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-172868/3-A
Matrix: Solid
Analysis Batch: 172999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 172868

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Nitrophenol	100	72.6		ug/Kg		73	67 - 127	19	30
2,4-Dimethylphenol	100	67.4		ug/Kg		67	54 - 139	1	30
Benzoic acid	200	121	J	ug/Kg		60	29 - 158	7	28
Bis(2-chloroethoxy)methane	100	66.2	*	ug/Kg		66	69 - 107	7	30
2,4-Dichlorophenol	100	70.4		ug/Kg		70	68 - 125	3	30
1,2,4-Trichlorobenzene	100	65.1	*	ug/Kg		65	66 - 115	16	28
Naphthalene	100	62.4		ug/Kg		62	62 - 112	14	26
4-Chloroaniline	100	30.8		ug/Kg		31	20 - 103	17	60
Hexachlorobutadiene	100	71.9		ug/Kg		72	65 - 116	20	30
4-Chloro-3-methylphenol	100	68.2	*	ug/Kg		68	69 - 121	4	27
2-Methylnaphthalene	100	65.9		ug/Kg		66	64 - 119	16	27
1-Methylnaphthalene	100	65.9		ug/Kg		66	62 - 118	13	30
Hexachlorocyclopentadiene	100	72.6		ug/Kg		73	46 - 131	27	29
2,4,6-Trichlorophenol	100	59.6	*	ug/Kg		60	62 - 133	3	30
2,4,5-Trichlorophenol	100	73.5		ug/Kg		74	57 - 133	10	30
2-Chloronaphthalene	100	65.6	*	ug/Kg		66	68 - 112	18	25
2-Nitroaniline	100	64.6		ug/Kg		65	64 - 112	2	22
Dimethyl phthalate	100	70.6	*	ug/Kg		71	78 - 117	4	30
Acenaphthylene	100	70.2		ug/Kg		70	68 - 120	13	28
2,6-Dinitrotoluene	100	63.5	*	ug/Kg		63	66 - 123	3	30
3-Nitroaniline	100	42.5		ug/Kg		42	27 - 103	14	33
Acenaphthene	100	63.0	*	ug/Kg		63	68 - 116	15	27
2,4-Dinitrophenol	200	128		ug/Kg		64	20 - 141	0	36
4-Nitrophenol	200	257	^	ug/Kg		128	20 - 165	1	30
Dibenzofuran	100	68.7	*	ug/Kg		69	72 - 109	13	30
2,4-Dinitrotoluene	100	72.2		ug/Kg		72	68 - 121	12	30
Diethyl phthalate	100	75.9		ug/Kg		76	73 - 116	6	26
4-Chlorophenyl phenyl ether	100	74.0	*	ug/Kg		74	75 - 108	9	30
Fluorene	100	69.6		ug/Kg		70	70 - 121	14	30
4-Nitroaniline	100	63.1		ug/Kg		63	58 - 108	5	32
4,6-Dinitro-2-methylphenol	200	121		ug/Kg		61	48 - 130	6	22
N-Nitrosodiphenylamine	100	64.0	*	ug/Kg		64	73 - 115	2	30
4-Bromophenyl phenyl ether	100	76.5		ug/Kg		76	68 - 122	12	30
Hexachlorobenzene	100	68.9		ug/Kg		69	66 - 117	7	30
Pentachlorophenol	200	127		ug/Kg		64	45 - 117	0	23
Phenanthrene	100	66.5	*	ug/Kg		67	73 - 106	5	28
Anthracene	100	63.6	*	ug/Kg		64	73 - 116	3	27
Carbazole	100	68.7	*	ug/Kg		69	76 - 135	1	30
Di-n-butyl phthalate	100	70.5		ug/Kg		71	66 - 140	1	30
Fluoranthene	100	72.4	*	ug/Kg		72	73 - 125	2	30
Pyrene	100	68.2	*	ug/Kg		68	70 - 120	5	30
Butyl benzyl phthalate	100	73.9		ug/Kg		74	69 - 142	0	30
3,3'-Dichlorobenzidine	200	84.7		ug/Kg		42	20 - 103	32	60
Benzo[a]anthracene	100	68.3	*	ug/Kg		68	76 - 119	0	27
Chrysene	100	68.6	*	ug/Kg		69	75 - 114	1	26
Bis(2-ethylhexyl) phthalate	100	68.0		ug/Kg		68	62 - 144	2	30
Di-n-octyl phthalate	100	62.9	*	ug/Kg		63	65 - 141	3	30
Benzo[b]fluoranthene	100	60.8	*	ug/Kg		61	63 - 132	4	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-172868/3-A
Matrix: Solid
Analysis Batch: 172999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 172868

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[k]fluoranthene			100	67.7		ug/Kg		68	63 - 119	1	30
Benzo[a]pyrene			100	69.0	*	ug/Kg		69	72 - 117	2	30
Indeno[1,2,3-cd]pyrene			100	66.5		ug/Kg		67	56 - 127	8	29
Dibenz(a,h)anthracene			100	67.7		ug/Kg		68	56 - 134	9	30
Benzo[g,h,i]perylene			100	64.8		ug/Kg		65	55 - 139	1	28
N-Nitrosodimethylamine			100	52.6	J	ug/Kg		53	38 - 133	14	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol	*58*		*36 - 145*
Phenol-d5	*62*		*38 - 149*
2,4,6-Tribromophenol	*58*		*28 - 143*
Nitrobenzene-d5	*66*		*38 - 141*
2-Fluorobiphenyl	*68*		*42 - 140*
Terphenyl-d14	*71*		*42 - 151*

Lab Sample ID: MB 580-173001/1-A
Matrix: Solid
Analysis Batch: 173503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 173001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Bis(2-chloroethyl)ether	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
2-Chlorophenol	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
1,3-Dichlorobenzene	ND		5.0	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
1,4-Dichlorobenzene	ND		5.0	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Benzyl alcohol	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
1,2-Dichlorobenzene	ND		5.5	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
2-Methylphenol	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
2,2'-oxybis[1-chloropropane]	ND		25	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
3 & 4 Methylphenol	ND		20	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
N-Nitrosodi-n-propylamine	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Hexachloroethane	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Nitrobenzene	ND		10	3.4	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Isophorone	ND		10	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
2-Nitrophenol	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
2,4-Dimethylphenol	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Benzoic acid	ND		250	75	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Bis(2-chloroethoxy)methane	ND		10	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
2,4-Dichlorophenol	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
1,2,4-Trichlorobenzene	ND		5.0	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Naphthalene	ND		2.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
4-Chloroaniline	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Hexachlorobutadiene	ND		5.0	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
4-Chloro-3-methylphenol	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
2-Methylnaphthalene	ND		2.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
1-Methylnaphthalene	ND		3.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Hexachlorocyclopentadiene	ND		10	1.0	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
2,4,6-Trichlorophenol	ND		15	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-173001/1-A
Matrix: Solid
Analysis Batch: 173503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 173001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
2-Chloronaphthalene	ND		2.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
2-Nitroaniline	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Dimethyl phthalate	ND		10	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Acenaphthylene	ND		2.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
2,6-Dinitrotoluene	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
3-Nitroaniline	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Acenaphthene	ND		2.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
2,4-Dinitrophenol	ND		100	20	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
4-Nitrophenol	ND		100	25	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Dibenzofuran	ND		10	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
2,4-Dinitrotoluene	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Diethyl phthalate	5.74	J	20	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
4-Chlorophenyl phenyl ether	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Fluorene	ND		2.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
4-Nitroaniline	ND		10	2.0	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
4,6-Dinitro-2-methylphenol	ND		100	10	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
4-Bromophenyl phenyl ether	ND		10	1.5	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Hexachlorobenzene	ND		5.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Pentachlorophenol	ND		20	2.0	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Phenanthrene	ND		2.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Anthracene	ND		2.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Carbazole	ND		10	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Di-n-butyl phthalate	ND		50	5.0	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Fluoranthene	ND		2.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Pyrene	ND		2.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Butyl benzyl phthalate	7.95	J	20	5.0	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
3,3'-Dichlorobenzidine	ND		20	3.0	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Benzo[a]anthracene	ND		2.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Chrysene	ND		2.5	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Bis(2-ethylhexyl) phthalate	9.29	J	60	5.0	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Di-n-octyl phthalate	ND		50	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Benzo[b]fluoranthene	ND		2.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Benzo[k]fluoranthene	ND		2.5	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Benzo[a]pyrene	ND		3.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Dibenz(a,h)anthracene	ND		4.0	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
Benzo[g,h,i]perylene	ND		2.5	0.50	ug/Kg		10/17/14 11:05	10/22/14 14:03	1
N-Nitrosodimethylamine	ND		100	25	ug/Kg		10/17/14 11:05	10/22/14 14:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*69*		*36 - 145*	*10/17/14 11:05*	*10/22/14 14:03*	*1*
Phenol-d5	*73*		*38 - 149*	*10/17/14 11:05*	*10/22/14 14:03*	*1*
2,4,6-Tribromophenol	*80*		*28 - 143*	*10/17/14 11:05*	*10/22/14 14:03*	*1*
Nitrobenzene-d5	*82*		*38 - 141*	*10/17/14 11:05*	*10/22/14 14:03*	*1*
2-Fluorobiphenyl	*80*		*42 - 140*	*10/17/14 11:05*	*10/22/14 14:03*	*1*
Terphenyl-d14	*92*		*42 - 151*	*10/17/14 11:05*	*10/22/14 14:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-173001/2-A
Matrix: Solid
Analysis Batch: 173503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 173001

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	100	79.1		ug/Kg		79	63 - 111
Bis(2-chloroethyl)ether	100	74.9		ug/Kg		75	62 - 110
2-Chlorophenol	100	81.9		ug/Kg		82	68 - 117
1,3-Dichlorobenzene	100	70.2		ug/Kg		70	64 - 111
1,4-Dichlorobenzene	100	71.6		ug/Kg		72	65 - 110
Benzyl alcohol	100	73.2		ug/Kg		73	55 - 123
1,2-Dichlorobenzene	100	70.4		ug/Kg		70	64 - 112
2-Methylphenol	100	80.8		ug/Kg		81	71 - 116
2,2'-oxybis[1-chloropropane]	100	68.5		ug/Kg		69	41 - 126
3 & 4 Methylphenol	100	83.0		ug/Kg		83	70 - 116
N-Nitrosodi-n-propylamine	100	85.3		ug/Kg		85	62 - 116
Hexachloroethane	100	75.9		ug/Kg		76	62 - 120
Nitrobenzene	100	78.5		ug/Kg		79	64 - 118
Isophorone	100	83.8		ug/Kg		84	67 - 119
2-Nitrophenol	100	86.8		ug/Kg		87	67 - 127
2,4-Dimethylphenol	100	66.0		ug/Kg		66	54 - 139
Benzoic acid	200	107	J	ug/Kg		53	29 - 158
Bis(2-chloroethoxy)methane	100	81.1		ug/Kg		81	69 - 107
2,4-Dichlorophenol	100	87.5		ug/Kg		87	68 - 125
1,2,4-Trichlorobenzene	100	75.7		ug/Kg		76	66 - 115
Naphthalene	100	72.9		ug/Kg		73	62 - 112
4-Chloroaniline	100	31.9		ug/Kg		32	20 - 103
Hexachlorobutadiene	100	87.4		ug/Kg		87	65 - 116
4-Chloro-3-methylphenol	100	83.1		ug/Kg		83	69 - 121
2-Methylnaphthalene	100	78.2		ug/Kg		78	64 - 119
1-Methylnaphthalene	100	76.0		ug/Kg		76	62 - 118
Hexachlorocyclopentadiene	100	67.7		ug/Kg		68	46 - 131
2,4,6-Trichlorophenol	100	82.6		ug/Kg		83	62 - 133
2,4,5-Trichlorophenol	100	76.7		ug/Kg		77	57 - 133
2-Chloronaphthalene	100	75.8		ug/Kg		76	68 - 112
2-Nitroaniline	100	86.3		ug/Kg		86	64 - 112
Dimethyl phthalate	100	85.5		ug/Kg		85	78 - 117
Acenaphthylene	100	82.2		ug/Kg		82	68 - 120
2,6-Dinitrotoluene	100	81.0		ug/Kg		81	66 - 123
3-Nitroaniline	100	57.2		ug/Kg		57	27 - 103
Acenaphthene	100	75.7		ug/Kg		76	68 - 116
2,4-Dinitrophenol	200	149		ug/Kg		75	20 - 141
4-Nitrophenol	200	176		ug/Kg		88	20 - 165
Dibenzofuran	100	80.9		ug/Kg		81	72 - 109
2,4-Dinitrotoluene	100	85.7		ug/Kg		86	68 - 121
Diethyl phthalate	100	91.5		ug/Kg		92	73 - 116
4-Chlorophenyl phenyl ether	100	86.5		ug/Kg		86	75 - 108
Fluorene	100	80.2		ug/Kg		80	70 - 121
4-Nitroaniline	100	74.5		ug/Kg		74	58 - 108
4,6-Dinitro-2-methylphenol	200	163		ug/Kg		81	48 - 130
N-Nitrosodiphenylamine	100	81.2		ug/Kg		81	73 - 115
4-Bromophenyl phenyl ether	100	89.5		ug/Kg		90	68 - 122
Hexachlorobenzene	100	89.7		ug/Kg		90	66 - 117

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-173001/2-A
Matrix: Solid
Analysis Batch: 173503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 173001

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	200	126		ug/Kg		63	45 - 117
Phenanthrene	100	82.4		ug/Kg		82	73 - 106
Anthracene	100	80.1		ug/Kg		80	73 - 116
Carbazole	100	86.6		ug/Kg		87	76 - 135
Di-n-butyl phthalate	100	94.3		ug/Kg		94	66 - 140
Fluoranthene	100	95.0		ug/Kg		95	73 - 125
Pyrene	100	88.5		ug/Kg		89	70 - 120
Butyl benzyl phthalate	100	92.8		ug/Kg		93	69 - 142
3,3'-Dichlorobenzidine	200	96.9		ug/Kg		48	20 - 103
Benzo[a]anthracene	100	85.8		ug/Kg		86	76 - 119
Chrysene	100	85.6		ug/Kg		86	75 - 114
Bis(2-ethylhexyl) phthalate	100	98.0		ug/Kg		98	62 - 144
Di-n-octyl phthalate	100	86.7		ug/Kg		87	65 - 141
Benzo[b]fluoranthene	100	86.9		ug/Kg		87	63 - 132
Benzo[k]fluoranthene	100	83.2		ug/Kg		83	63 - 119
Benzo[a]pyrene	100	86.7		ug/Kg		87	72 - 117
Indeno[1,2,3-cd]pyrene	100	95.8		ug/Kg		96	56 - 127
Dibenz(a,h)anthracene	100	89.9		ug/Kg		90	56 - 134
Benzo[g,h,i]perylene	100	87.1		ug/Kg		87	55 - 139
N-Nitrosodimethylamine	100	79.3	J	ug/Kg		79	38 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*75*		*36 - 145*
Phenol-d5	*77*		*38 - 149*
2,4,6-Tribromophenol	*95*		*28 - 143*
Nitrobenzene-d5	*80*		*38 - 141*
2-Fluorobiphenyl	*79*		*42 - 140*
Terphenyl-d14	*94*		*42 - 151*

Lab Sample ID: LCSD 580-173001/3-A
Matrix: Solid
Analysis Batch: 173503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 173001

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	100	65.6		ug/Kg		66	63 - 111	19	26
Bis(2-chloroethyl)ether	100	70.6		ug/Kg		71	62 - 110	6	22
2-Chlorophenol	100	69.3		ug/Kg		69	68 - 117	17	27
1,3-Dichlorobenzene	100	63.5	*	ug/Kg		63	64 - 111	10	30
1,4-Dichlorobenzene	100	62.3	*	ug/Kg		62	65 - 110	14	30
Benzyl alcohol	100	74.0		ug/Kg		74	55 - 123	1	60
1,2-Dichlorobenzene	100	62.9	*	ug/Kg		63	64 - 112	11	30
2-Methylphenol	100	73.2		ug/Kg		73	71 - 116	10	25
2,2'-oxybis[1-chloropropane]	100	62.0		ug/Kg		62	41 - 126	10	57
3 & 4 Methylphenol	100	71.4		ug/Kg		71	70 - 116	15	27
N-Nitrosodi-n-propylamine	100	73.9		ug/Kg		74	62 - 116	14	28
Hexachloroethane	100	67.8		ug/Kg		68	62 - 120	11	30
Nitrobenzene	100	75.9		ug/Kg		76	64 - 118	3	30
Isophorone	100	77.6		ug/Kg		78	67 - 119	8	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-173001/3-A
Matrix: Solid
Analysis Batch: 173503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 173001

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Nitrophenol	100	78.7		ug/Kg		79	67 - 127	10	30
2,4-Dimethylphenol	100	73.3		ug/Kg		73	54 - 139	11	30
Benzoic acid	200	114	J	ug/Kg		57	29 - 158	7	28
Bis(2-chloroethoxy)methane	100	73.2		ug/Kg		73	69 - 107	10	30
2,4-Dichlorophenol	100	77.3		ug/Kg		77	68 - 125	12	30
1,2,4-Trichlorobenzene	100	72.6		ug/Kg		73	66 - 115	4	28
Naphthalene	100	67.6		ug/Kg		68	62 - 112	8	26
4-Chloroaniline	100	32.0		ug/Kg		32	20 - 103	0	60
Hexachlorobutadiene	100	81.1		ug/Kg		81	65 - 116	8	30
4-Chloro-3-methylphenol	100	71.7		ug/Kg		72	69 - 121	15	27
2-Methylnaphthalene	100	70.9		ug/Kg		71	64 - 119	10	27
1-Methylnaphthalene	100	72.2		ug/Kg		72	62 - 118	5	30
Hexachlorocyclopentadiene	100	64.0		ug/Kg		64	46 - 131	6	29
2,4,6-Trichlorophenol	100	75.2		ug/Kg		75	62 - 133	9	30
2,4,5-Trichlorophenol	100	67.4		ug/Kg		67	57 - 133	13	30
2-Chloronaphthalene	100	70.4		ug/Kg		70	68 - 112	7	25
2-Nitroaniline	100	80.5		ug/Kg		80	64 - 112	7	22
Dimethyl phthalate	100	78.2		ug/Kg		78	78 - 117	9	30
Acenaphthylene	100	75.9		ug/Kg		76	68 - 120	8	28
2,6-Dinitrotoluene	100	75.7		ug/Kg		76	66 - 123	7	30
3-Nitroaniline	100	57.9		ug/Kg		58	27 - 103	1	33
Acenaphthene	100	69.3		ug/Kg		69	68 - 116	9	27
2,4-Dinitrophenol	200	130		ug/Kg		65	20 - 141	13	36
4-Nitrophenol	200	167		ug/Kg		84	20 - 165	5	30
Dibenzofuran	100	72.7		ug/Kg		73	72 - 109	11	30
2,4-Dinitrotoluene	100	76.4		ug/Kg		76	68 - 121	12	30
Diethyl phthalate	100	81.6		ug/Kg		82	73 - 116	11	26
4-Chlorophenyl phenyl ether	100	76.2		ug/Kg		76	75 - 108	13	30
Fluorene	100	73.5		ug/Kg		74	70 - 121	9	30
4-Nitroaniline	100	63.7		ug/Kg		64	58 - 108	16	32
4,6-Dinitro-2-methylphenol	200	137		ug/Kg		68	48 - 130	18	22
N-Nitrosodiphenylamine	100	72.7		ug/Kg		73	73 - 115	11	30
4-Bromophenyl phenyl ether	100	85.0		ug/Kg		85	68 - 122	5	30
Hexachlorobenzene	100	76.7		ug/Kg		77	66 - 117	16	30
Pentachlorophenol	200	105		ug/Kg		52	45 - 117	18	23
Phenanthrene	100	72.9		ug/Kg		73	73 - 106	12	28
Anthracene	100	71.5	*	ug/Kg		71	73 - 116	11	27
Carbazole	100	77.0		ug/Kg		77	76 - 135	12	30
Di-n-butyl phthalate	100	83.3		ug/Kg		83	66 - 140	12	30
Fluoranthene	100	80.0		ug/Kg		80	73 - 125	17	30
Pyrene	100	75.7		ug/Kg		76	70 - 120	16	30
Butyl benzyl phthalate	100	88.4		ug/Kg		88	69 - 142	5	30
3,3'-Dichlorobenzidine	200	84.5		ug/Kg		42	20 - 103	14	60
Benzo[a]anthracene	100	79.1		ug/Kg		79	76 - 119	8	27
Chrysene	100	80.4		ug/Kg		80	75 - 114	6	26
Bis(2-ethylhexyl) phthalate	100	90.0		ug/Kg		90	62 - 144	9	30
Di-n-octyl phthalate	100	74.8		ug/Kg		75	65 - 141	15	30
Benzo[b]fluoranthene	100	84.3		ug/Kg		84	63 - 132	3	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-173001/3-A
Matrix: Solid
Analysis Batch: 173503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 173001

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[k]fluoranthene			100	68.6		ug/Kg		69	63 - 119	19	30
Benzo[a]pyrene			100	80.3		ug/Kg		80	72 - 117	8	30
Indeno[1,2,3-cd]pyrene			100	83.0		ug/Kg		83	56 - 127	14	29
Dibenz(a,h)anthracene			100	81.1		ug/Kg		81	56 - 134	10	30
Benzo[g,h,i]perylene			100	78.2		ug/Kg		78	55 - 139	11	28
N-Nitrosodimethylamine			100	58.8	J	ug/Kg		59	38 - 133	30	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol	*63*		*36 - 145*
Phenol-d5	*67*		*38 - 149*
2,4,6-Tribromophenol	*83*		*28 - 143*
Nitrobenzene-d5	*75*		*38 - 141*
2-Fluorobiphenyl	*73*		*42 - 140*
Terphenyl-d14	*82*		*42 - 151*

Lab Sample ID: 580-45906-3 MS
Matrix: Solid
Analysis Batch: 173503

Client Sample ID: CC-A-01-2014013-S
Prep Type: Total/NA
Prep Batch: 173001

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	110	J	175	243		ug/Kg	☼	74	63 - 111
Bis(2-chloroethyl)ether	ND		175	142	J	ug/Kg	☼	81	62 - 110
2-Chlorophenol	ND		175	138	J	ug/Kg	☼	79	68 - 117
1,3-Dichlorobenzene	ND	*	175	99.5	F1	ug/Kg	☼	57	64 - 111
1,4-Dichlorobenzene	ND	*	175	116		ug/Kg	☼	66	65 - 110
Benzyl alcohol	ND		175	195		ug/Kg	☼	111	55 - 123
1,2-Dichlorobenzene	ND	*	175	109	F1	ug/Kg	☼	62	64 - 112
2-Methylphenol	ND		175	150	J	ug/Kg	☼	86	71 - 116
2,2'-oxybis[1-chloropropane]	ND		175	74.8	J	ug/Kg	☼	43	41 - 126
3 & 4 Methylphenol	78	J	175	191	J F1	ug/Kg	☼	65	70 - 116
N-Nitrosodi-n-propylamine	ND		175	139	J	ug/Kg	☼	79	62 - 116
Hexachloroethane	ND		175	75.4	J F1	ug/Kg	☼	43	62 - 120
Nitrobenzene	ND		175	164	J	ug/Kg	☼	94	64 - 118
Isophorone	ND		175	174		ug/Kg	☼	100	67 - 119
2-Nitrophenol	ND		175	132	J	ug/Kg	☼	75	67 - 127
2,4-Dimethylphenol	ND		175	160	J	ug/Kg	☼	91	54 - 139
Benzoic acid	ND		350	ND		ug/Kg	☼	NC	29 - 158
Bis(2-chloroethoxy)methane	ND		175	125	J	ug/Kg	☼	72	69 - 107
2,4-Dichlorophenol	ND		175	149	J	ug/Kg	☼	85	68 - 125
1,2,4-Trichlorobenzene	ND		175	140		ug/Kg	☼	80	66 - 115
Naphthalene	160		175	225	F1	ug/Kg	☼	38	62 - 112
4-Chloroaniline	ND		175	81.9	J	ug/Kg	☼	47	20 - 103
Hexachlorobutadiene	ND		175	149		ug/Kg	☼	85	65 - 116
4-Chloro-3-methylphenol	ND		175	185		ug/Kg	☼	106	69 - 121
2-Methylnaphthalene	350		175	310	F1	ug/Kg	☼	-25	64 - 119
1-Methylnaphthalene	270		175	265	F1	ug/Kg	☼	-5	62 - 118
Hexachlorocyclopentadiene	ND		175	ND	F1	ug/Kg	☼	0	46 - 131
2,4,6-Trichlorophenol	ND		175	161	J	ug/Kg	☼	92	62 - 133

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-45906-3 MS
Matrix: Solid
Analysis Batch: 173503

Client Sample ID: CC-A-01-2014013-S
Prep Type: Total/NA
Prep Batch: 173001

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	ND		175	154	J	ug/Kg	☼	88	57 - 133
2-Chloronaphthalene	ND		175	131		ug/Kg	☼	75	68 - 112
2-Nitroaniline	ND		175	171		ug/Kg	☼	98	64 - 112
Dimethyl phthalate	290		175	500	F1	ug/Kg	☼	119	78 - 117
Acenaphthylene	ND		175	159		ug/Kg	☼	91	68 - 120
2,6-Dinitrotoluene	ND		175	154	J	ug/Kg	☼	88	66 - 123
3-Nitroaniline	ND		175	45.4	J F1	ug/Kg	☼	26	27 - 103
Acenaphthene	140		175	275		ug/Kg	☼	78	68 - 116
2,4-Dinitrophenol	ND		350	ND		ug/Kg	☼	NC	20 - 141
4-Nitrophenol	560	J	350	597	J F1	ug/Kg	☼	12	20 - 165
Dibenzofuran	100	J	175	233		ug/Kg	☼	76	72 - 109
2,4-Dinitrotoluene	66	J	175	194		ug/Kg	☼	74	68 - 121
Diethyl phthalate	ND		175	186	J	ug/Kg	☼	106	73 - 116
4-Chlorophenyl phenyl ether	ND		175	146	J	ug/Kg	☼	84	75 - 108
Fluorene	120		175	259		ug/Kg	☼	79	70 - 121
4-Nitroaniline	ND		175	76.4	J F1	ug/Kg	☼	44	58 - 108
4,6-Dinitro-2-methylphenol	ND		350	ND	F1	ug/Kg	☼	0	48 - 130
N-Nitrosodiphenylamine	ND		175	158		ug/Kg	☼	90	73 - 115
4-Bromophenyl phenyl ether	ND		175	ND	F1	ug/Kg	☼	0	68 - 122
Hexachlorobenzene	ND		175	156		ug/Kg	☼	89	66 - 117
Pentachlorophenol	ND		350	386		ug/Kg	☼	110	45 - 117
Phenanthrene	520		175	704		ug/Kg	☼	103	73 - 106
Anthracene	90	*	175	234		ug/Kg	☼	83	73 - 116
Carbazole	110	J	175	249		ug/Kg	☼	78	76 - 135
Di-n-butyl phthalate	220	J	175	368	J	ug/Kg	☼	87	66 - 140
Fluoranthene	940		175	1220	4	ug/Kg	☼	163	73 - 125
Pyrene	930		175	1160	4	ug/Kg	☼	134	70 - 120
Butyl benzyl phthalate	780	B	175	444	4	ug/Kg	☼	-193	69 - 142
3,3'-Dichlorobenzidine	ND		350	92.6	J	ug/Kg	☼	26	20 - 103
Benzo[a]anthracene	330		175	498		ug/Kg	☼	98	76 - 119
Chrysene	520		175	645	F1	ug/Kg	☼	72	75 - 114
N-Nitrosodimethylamine	ND		175	ND		ug/Kg	☼	NC	38 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol	*55*		*36 - 145*
Phenol-d5	*63*		*38 - 149*
2,4,6-Tribromophenol	*83*		*28 - 143*
Nitrobenzene-d5	*62*		*38 - 141*
2-Fluorobiphenyl	*62*		*42 - 140*
Terphenyl-d14	*104*		*42 - 151*

Lab Sample ID: 580-45906-3 MSD
Matrix: Solid
Analysis Batch: 173503

Client Sample ID: CC-A-01-2014013-S
Prep Type: Total/NA
Prep Batch: 173001

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	110	J	172	193	F1	ug/Kg	☼	46	63 - 111	23	26
Bis(2-chloroethyl)ether	ND		172	ND	F1	ug/Kg	☼	0	62 - 110	NC	60

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-45906-3 MSD
Matrix: Solid
Analysis Batch: 173503

Client Sample ID: CC-A-01-2014013-S
Prep Type: Total/NA
Prep Batch: 173001

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorophenol	ND		172	ND	F1	ug/Kg	☼	0	68 - 117	NC	27
1,3-Dichlorobenzene	ND	*	172	ND	F1	ug/Kg	☼	0	64 - 111	NC	60
1,4-Dichlorobenzene	ND	*	172	ND	F1	ug/Kg	☼	0	65 - 110	NC	32
Benzyl alcohol	ND		172	97.4	J F2	ug/Kg	☼	57	55 - 123	67	60
1,2-Dichlorobenzene	ND	*	172	ND	F1	ug/Kg	☼	0	64 - 112	NC	60
2-Methylphenol	ND		172	ND	F1	ug/Kg	☼	0	71 - 116	NC	25
2,2'-oxybis[1-chloropropane]	ND		172	ND	F1	ug/Kg	☼	0	41 - 126	NC	60
3 & 4 Methylphenol	78	J	172	75.3	J F1 F2	ug/Kg	☼	-2	70 - 116	87	27
N-Nitrosodi-n-propylamine	ND		172	67.7	J F1 F2	ug/Kg	☼	39	62 - 116	69	28
Hexachloroethane	ND		172	ND	F1	ug/Kg	☼	0	62 - 120	NC	60
Nitrobenzene	ND		172	ND	F1	ug/Kg	☼	0	64 - 118	NC	60
Isophorone	ND		172	109	J F1	ug/Kg	☼	63	67 - 119	46	60
2-Nitrophenol	ND		172	ND	F1	ug/Kg	☼	0	67 - 127	NC	60
2,4-Dimethylphenol	ND		172	ND	F1	ug/Kg	☼	0	54 - 139	NC	60
Benzoic acid	ND		344	4500		ug/Kg	☼	NC	29 - 158	NC	60
Bis(2-chloroethoxy)methane	ND		172	18.5	J F1 F2	ug/Kg	☼	11	69 - 107	149	60
2,4-Dichlorophenol	ND		172	ND	F1	ug/Kg	☼	0	68 - 125	NC	60
1,2,4-Trichlorobenzene	ND		172	ND	F1	ug/Kg	☼	0	66 - 115	NC	28
Naphthalene	160		172	158	F1 F2	ug/Kg	☼	-0.9	62 - 112	35	26
4-Chloroaniline	ND		172	ND	F1	ug/Kg	☼	0	20 - 103	NC	60
Hexachlorobutadiene	ND		172	ND	F1	ug/Kg	☼	0	65 - 116	NC	60
4-Chloro-3-methylphenol	ND		172	27.9	J F1 F2	ug/Kg	☼	16	69 - 121	148	27
2-Methylnaphthalene	350		172	369	F1	ug/Kg	☼	9	64 - 119	17	27
1-Methylnaphthalene	270		172	235	F1	ug/Kg	☼	-22	62 - 118	12	30
Hexachlorocyclopentadiene	ND		172	ND	F1	ug/Kg	☼	0	46 - 131	NC	60
2,4,6-Trichlorophenol	ND		172	ND	F1	ug/Kg	☼	0	62 - 133	NC	60
2,4,5-Trichlorophenol	ND		172	31.9	J F1 F2	ug/Kg	☼	19	57 - 133	131	60
2-Chloronaphthalene	ND		172	11.1	J F1 F2	ug/Kg	☼	6	68 - 112	169	25
2-Nitroaniline	ND		172	71.4	J F1 F2	ug/Kg	☼	41	64 - 112	82	60
Dimethyl phthalate	290		172	2040	F1 F2	ug/Kg	☼	1017	78 - 117	121	60
Acenaphthylene	ND		172	27.4	J F1 F2	ug/Kg	☼	16	68 - 120	141	28
2,6-Dinitrotoluene	ND		172	149	J	ug/Kg	☼	87	66 - 123	3	60
3-Nitroaniline	ND		172	36.1	J F1	ug/Kg	☼	21	27 - 103	23	60
Acenaphthene	140		172	135	F1 F2	ug/Kg	☼	-2	68 - 116	68	27
2,4-Dinitrophenol	ND		344	ND	F1	ug/Kg	☼	0	20 - 141	NC	60
4-Nitrophenol	560	J	344	517	J F1	ug/Kg	☼	-11	20 - 165	14	33
Dibenzofuran	100	J	172	98.6	J F1 F2	ug/Kg	☼	-0.9	72 - 109	81	60
2,4-Dinitrotoluene	66	J	172	58.8	J F1 F2	ug/Kg	☼	-4	68 - 121	107	31
Diethyl phthalate	ND		172	ND	F1	ug/Kg	☼	0	73 - 116	NC	26
4-Chlorophenyl phenyl ether	ND		172	104	J F1	ug/Kg	☼	60	75 - 108	34	60
Fluorene	120		172	125	F1 F2	ug/Kg	☼	3	70 - 121	69	31
4-Nitroaniline	ND		172	49.4	J F1	ug/Kg	☼	29	58 - 108	43	60
4,6-Dinitro-2-methylphenol	ND		344	ND	F1	ug/Kg	☼	0	48 - 130	NC	60
N-Nitrosodiphenylamine	ND		172	30.1	J F1 F2	ug/Kg	☼	17	73 - 115	136	60
4-Bromophenyl phenyl ether	ND		172	ND	F1	ug/Kg	☼	0	68 - 122	NC	60
Hexachlorobenzene	ND		172	ND	F1	ug/Kg	☼	0	66 - 117	NC	60
Pentachlorophenol	ND		344	137	J F1 F2	ug/Kg	☼	40	45 - 117	95	68
Phenanthrene	520		172	729	F1	ug/Kg	☼	118	73 - 106	3	28

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-45906-3 MSD
Matrix: Solid
Analysis Batch: 173503

Client Sample ID: CC-A-01-2014013-S
Prep Type: Total/NA
Prep Batch: 173001

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	90	*	172	135	F1 F2	ug/Kg	☼	26	73 - 116	54	27
Carbazole	110	J	172	142	J F1	ug/Kg	☼	18	76 - 135	55	60
Di-n-butyl phthalate	220	J	172	225	J F1	ug/Kg	☼	6	66 - 140	48	60
Fluoranthene	940		172	1400	4	ug/Kg	☼	265	73 - 125	13	36
Pyrene	930		172	1310	4	ug/Kg	☼	223	70 - 120	12	31
Butyl benzyl phthalate	780	B	172	600	4	ug/Kg	☼	-105	69 - 142	30	60
3,3'-Dichlorobenzidine	ND		344	85.3	J	ug/Kg	☼	25	20 - 103	8	60
Benzo[a]anthracene	330		172	614	F1	ug/Kg	☼	167	76 - 119	21	27
Chrysene	520		172	772	F1	ug/Kg	☼	147	75 - 114	18	26
N-Nitrosodimethylamine	ND		172	ND		ug/Kg	☼	NC	38 - 133	NC	60

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol	*72*		*36 - 145*
Phenol-d5	*78*		*38 - 149*
2,4,6-Tribromophenol	*107*		*28 - 143*
Nitrobenzene-d5	*88*		*38 - 141*
2-Fluorobiphenyl	*74*		*42 - 140*
Terphenyl-d14	*124*		*42 - 151*

Lab Sample ID: MB 580-173678/1-A
Matrix: Solid
Analysis Batch: 174213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 173678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Bis(2-chloroethyl)ether	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
2-Chlorophenol	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
1,3-Dichlorobenzene	ND		5.0	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
1,4-Dichlorobenzene	ND		5.0	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Benzyl alcohol	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
1,2-Dichlorobenzene	ND		5.5	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
2-Methylphenol	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
2,2'-oxybis[1-chloropropane]	ND		25	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
3 & 4 Methylphenol	ND		20	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
N-Nitrosodi-n-propylamine	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Hexachloroethane	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Nitrobenzene	ND		10	3.4	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Isophorone	ND		10	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
2-Nitrophenol	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
2,4-Dimethylphenol	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Benzoic acid	ND		250	75	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Bis(2-chloroethoxy)methane	ND		10	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
2,4-Dichlorophenol	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
1,2,4-Trichlorobenzene	ND		5.0	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Naphthalene	ND		2.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
4-Chloroaniline	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Hexachlorobutadiene	ND		5.0	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
4-Chloro-3-methylphenol	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-173678/1-A
Matrix: Solid
Analysis Batch: 174213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 173678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		2.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
1-Methylnaphthalene	ND		3.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Hexachlorocyclopentadiene	ND		10	1.0	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
2,4,6-Trichlorophenol	ND		15	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
2,4,5-Trichlorophenol	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
2-Chloronaphthalene	ND		2.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
2-Nitroaniline	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Dimethyl phthalate	ND		10	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Acenaphthylene	ND		2.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
2,6-Dinitrotoluene	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
3-Nitroaniline	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Acenaphthene	ND		2.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
2,4-Dinitrophenol	ND		100	20	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
4-Nitrophenol	ND		100	25	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Dibenzofuran	ND		10	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
2,4-Dinitrotoluene	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Diethyl phthalate	ND		20	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
4-Chlorophenyl phenyl ether	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Fluorene	ND		2.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
4-Nitroaniline	ND		10	2.0	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
4,6-Dinitro-2-methylphenol	ND		100	10	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
4-Bromophenyl phenyl ether	ND		10	1.5	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Hexachlorobenzene	ND		5.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Pentachlorophenol	ND		20	2.0	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Phenanthrene	ND		2.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Anthracene	ND		2.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Carbazole	ND		10	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Di-n-butyl phthalate	ND		50	5.0	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Fluoranthene	ND		2.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Pyrene	ND		2.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Butyl benzyl phthalate	ND		20	5.0	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
3,3'-Dichlorobenzidine	ND		20	3.0	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Benzo[a]anthracene	ND		2.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Chrysene	ND		2.5	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Bis(2-ethylhexyl) phthalate	ND		60	5.0	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Di-n-octyl phthalate	ND		50	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Benzo[b]fluoranthene	ND		2.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Benzo[k]fluoranthene	ND		2.5	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Benzo[a]pyrene	ND		3.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Dibenz(a,h)anthracene	ND		4.0	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
Benzo[g,h,i]perylene	ND		2.5	0.50	ug/Kg		10/24/14 12:00	10/29/14 19:14	1
N-Nitrosodimethylamine	ND		100	25	ug/Kg		10/24/14 12:00	10/29/14 19:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*48*		*36 - 145*	*10/24/14 12:00*	*10/29/14 19:14*	*1*
Phenol-d5	*50*		*38 - 149*	*10/24/14 12:00*	*10/29/14 19:14*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-173678/1-A
Matrix: Solid
Analysis Batch: 174213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 173678

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		28 - 143	10/24/14 12:00	10/29/14 19:14	1
Nitrobenzene-d5	53		38 - 141	10/24/14 12:00	10/29/14 19:14	1
2-Fluorobiphenyl	53		42 - 140	10/24/14 12:00	10/29/14 19:14	1
Terphenyl-d14	63		42 - 151	10/24/14 12:00	10/29/14 19:14	1

Lab Sample ID: LCS 580-173678/2-A
Matrix: Solid
Analysis Batch: 174213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 173678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	100	83.0		ug/Kg		83	63 - 111
Bis(2-chloroethyl)ether	100	82.1		ug/Kg		82	62 - 110
2-Chlorophenol	100	86.4		ug/Kg		86	68 - 117
1,3-Dichlorobenzene	100	72.3		ug/Kg		72	64 - 111
1,4-Dichlorobenzene	100	72.9		ug/Kg		73	65 - 110
Benzyl alcohol	100	69.3		ug/Kg		69	55 - 123
1,2-Dichlorobenzene	100	77.7		ug/Kg		78	64 - 112
2-Methylphenol	100	84.4		ug/Kg		84	71 - 116
2,2'-oxybis[1-chloropropane]	100	67.1		ug/Kg		67	41 - 126
3 & 4 Methylphenol	100	88.1		ug/Kg		88	70 - 116
N-Nitrosodi-n-propylamine	100	79.9		ug/Kg		80	62 - 116
Hexachloroethane	100	78.2		ug/Kg		78	62 - 120
Nitrobenzene	100	83.7		ug/Kg		84	64 - 118
Isophorone	100	83.3		ug/Kg		83	67 - 119
2-Nitrophenol	100	84.2		ug/Kg		84	67 - 127
2,4-Dimethylphenol	100	76.1		ug/Kg		76	54 - 139
Benzoic acid	200	134	J	ug/Kg		67	29 - 158
Bis(2-chloroethoxy)methane	100	81.1		ug/Kg		81	69 - 107
2,4-Dichlorophenol	100	89.7		ug/Kg		90	68 - 125
1,2,4-Trichlorobenzene	100	80.0		ug/Kg		80	66 - 115
Naphthalene	100	77.3		ug/Kg		77	62 - 112
4-Chloroaniline	100	35.6		ug/Kg		36	20 - 103
Hexachlorobutadiene	100	90.6		ug/Kg		91	65 - 116
4-Chloro-3-methylphenol	100	82.8		ug/Kg		83	69 - 121
2-Methylnaphthalene	100	78.7		ug/Kg		79	64 - 119
1-Methylnaphthalene	100	78.5		ug/Kg		78	62 - 118
Hexachlorocyclopentadiene	100	83.8		ug/Kg		84	46 - 131
2,4,6-Trichlorophenol	100	74.7		ug/Kg		75	62 - 133
2,4,5-Trichlorophenol	100	92.4		ug/Kg		92	57 - 133
2-Chloronaphthalene	100	79.3		ug/Kg		79	68 - 112
2-Nitroaniline	100	78.6		ug/Kg		79	64 - 112
Dimethyl phthalate	100	85.0		ug/Kg		85	78 - 117
Acenaphthylene	100	87.2		ug/Kg		87	68 - 120
2,6-Dinitrotoluene	100	79.6		ug/Kg		80	66 - 123
3-Nitroaniline	100	56.8		ug/Kg		57	27 - 103
Acenaphthene	100	80.1		ug/Kg		80	68 - 116
2,4-Dinitrophenol	200	130		ug/Kg		65	20 - 141
4-Nitrophenol	200	165		ug/Kg		83	20 - 165

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-173678/2-A
Matrix: Solid
Analysis Batch: 174213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 173678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibenzofuran	100	80.4		ug/Kg		80	72 - 109
2,4-Dinitrotoluene	100	80.4		ug/Kg		80	68 - 121
Diethyl phthalate	100	88.4		ug/Kg		88	73 - 116
4-Chlorophenyl phenyl ether	100	86.4		ug/Kg		86	75 - 108
Fluorene	100	84.3		ug/Kg		84	70 - 121
4-Nitroaniline	100	71.3		ug/Kg		71	58 - 108
4,6-Dinitro-2-methylphenol	200	158		ug/Kg		79	48 - 130
N-Nitrosodiphenylamine	99.7	85.6		ug/Kg		86	73 - 115
4-Bromophenyl phenyl ether	100	88.3		ug/Kg		88	68 - 122
Hexachlorobenzene	100	89.9		ug/Kg		90	66 - 117
Pentachlorophenol	200	135		ug/Kg		67	45 - 117
Phenanthrene	100	78.8		ug/Kg		79	73 - 106
Anthracene	100	75.1		ug/Kg		75	73 - 116
Carbazole	100	82.5		ug/Kg		83	76 - 135
Di-n-butyl phthalate	100	90.1		ug/Kg		90	66 - 140
Fluoranthene	100	85.7		ug/Kg		86	73 - 125
Pyrene	100	83.6		ug/Kg		84	70 - 120
Butyl benzyl phthalate	100	86.8		ug/Kg		87	69 - 142
3,3'-Dichlorobenzidine	200	138		ug/Kg		69	20 - 103
Benzo[a]anthracene	100	92.5		ug/Kg		92	76 - 119
Chrysene	100	81.4		ug/Kg		81	75 - 114
Bis(2-ethylhexyl) phthalate	100	84.6		ug/Kg		85	62 - 144
Di-n-octyl phthalate	100	73.4		ug/Kg		73	65 - 141
Benzo[b]fluoranthene	100	85.5		ug/Kg		85	63 - 132
Benzo[k]fluoranthene	100	73.3		ug/Kg		73	63 - 119
Benzo[a]pyrene	100	80.5		ug/Kg		81	72 - 117
Indeno[1,2,3-cd]pyrene	100	83.1		ug/Kg		83	56 - 127
Dibenz(a,h)anthracene	100	84.5		ug/Kg		85	56 - 134
Benzo[g,h,i]perylene	100	79.2		ug/Kg		79	55 - 139
N-Nitrosodimethylamine	100	78.9	J	ug/Kg		79	38 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*78*		*36 - 145*
Phenol-d5	*80*		*38 - 149*
2,4,6-Tribromophenol	*89*		*28 - 143*
Nitrobenzene-d5	*84*		*38 - 141*
2-Fluorobiphenyl	*84*		*42 - 140*
Terphenyl-d14	*96*		*42 - 151*

Lab Sample ID: LCSD 580-173678/3-A
Matrix: Solid
Analysis Batch: 174213

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 173678

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	100	74.5		ug/Kg		75	63 - 111	11	26
Bis(2-chloroethyl)ether	100	72.2		ug/Kg		72	62 - 110	13	22
2-Chlorophenol	100	74.4		ug/Kg		74	68 - 117	15	27
1,3-Dichlorobenzene	100	70.2		ug/Kg		70	64 - 111	3	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-173678/3-A
Matrix: Solid
Analysis Batch: 174213

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 173678

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	100	66.9		ug/Kg		67	65 - 110	9	30
Benzyl alcohol	100	40.6	*	ug/Kg		41	55 - 123	52	60
1,2-Dichlorobenzene	100	67.6		ug/Kg		68	64 - 112	14	30
2-Methylphenol	100	74.8		ug/Kg		75	71 - 116	12	25
2,2'-oxybis[1-chloropropane]	100	67.2		ug/Kg		67	41 - 126	0	57
3 & 4 Methylphenol	100	79.9		ug/Kg		80	70 - 116	10	27
N-Nitrosodi-n-propylamine	100	79.5		ug/Kg		80	62 - 116	0	28
Hexachloroethane	100	70.8		ug/Kg		71	62 - 120	10	30
Nitrobenzene	100	77.9		ug/Kg		78	64 - 118	7	30
Isophorone	100	79.8		ug/Kg		80	67 - 119	4	30
2-Nitrophenol	100	78.8		ug/Kg		79	67 - 127	7	30
2,4-Dimethylphenol	100	73.8		ug/Kg		74	54 - 139	3	30
Benzoic acid	200	115	J	ug/Kg		58	29 - 158	15	28
Bis(2-chloroethoxy)methane	100	74.7		ug/Kg		75	69 - 107	8	30
2,4-Dichlorophenol	100	79.7		ug/Kg		80	68 - 125	12	30
1,2,4-Trichlorobenzene	100	76.5		ug/Kg		77	66 - 115	4	28
Naphthalene	100	71.2		ug/Kg		71	62 - 112	8	26
4-Chloroaniline	100	31.3		ug/Kg		31	20 - 103	13	60
Hexachlorobutadiene	100	86.5		ug/Kg		87	65 - 116	5	30
4-Chloro-3-methylphenol	100	78.6		ug/Kg		79	69 - 121	5	27
2-Methylnaphthalene	100	73.3		ug/Kg		73	64 - 119	7	27
1-Methylnaphthalene	100	74.6		ug/Kg		75	62 - 118	5	30
Hexachlorocyclopentadiene	100	83.6		ug/Kg		84	46 - 131	0	29
2,4,6-Trichlorophenol	100	61.7		ug/Kg		62	62 - 133	19	30
2,4,5-Trichlorophenol	100	82.5		ug/Kg		83	57 - 133	11	30
2-Chloronaphthalene	100	73.2		ug/Kg		73	68 - 112	8	25
2-Nitroaniline	100	71.7		ug/Kg		72	64 - 112	9	22
Dimethyl phthalate	100	78.0		ug/Kg		78	78 - 117	9	30
Acenaphthylene	100	80.7		ug/Kg		81	68 - 120	8	28
2,6-Dinitrotoluene	100	70.6		ug/Kg		71	66 - 123	12	30
3-Nitroaniline	100	54.2		ug/Kg		54	27 - 103	5	33
Acenaphthene	100	71.8		ug/Kg		72	68 - 116	11	27
2,4-Dinitrophenol	200	119		ug/Kg		59	20 - 141	9	36
4-Nitrophenol	200	118	*	ug/Kg		59	20 - 165	34	30
Dibenzofuran	100	76.0		ug/Kg		76	72 - 109	6	30
2,4-Dinitrotoluene	100	73.6		ug/Kg		74	68 - 121	9	30
Diethyl phthalate	100	83.1		ug/Kg		83	73 - 116	6	26
4-Chlorophenyl phenyl ether	100	84.5		ug/Kg		84	75 - 108	2	30
Fluorene	100	81.7		ug/Kg		82	70 - 121	3	30
4-Nitroaniline	100	60.4		ug/Kg		60	58 - 108	17	32
4,6-Dinitro-2-methylphenol	200	147		ug/Kg		73	48 - 130	7	22
N-Nitrosodiphenylamine	99.7	83.5		ug/Kg		84	73 - 115	2	30
4-Bromophenyl phenyl ether	100	91.8		ug/Kg		92	68 - 122	4	30
Hexachlorobenzene	100	87.2		ug/Kg		87	66 - 117	3	30
Pentachlorophenol	200	121		ug/Kg		60	45 - 117	11	23
Phenanthrene	100	77.1		ug/Kg		77	73 - 106	2	28
Anthracene	100	72.1	*	ug/Kg		72	73 - 116	4	27
Carbazole	100	80.2		ug/Kg		80	76 - 135	3	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-173678/3-A
Matrix: Solid
Analysis Batch: 174213

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 173678

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Di-n-butyl phthalate			100	88.2		ug/Kg		88	66 - 140	2	30
Fluoranthene			100	85.1		ug/Kg		85	73 - 125	1	30
Pyrene			100	79.7		ug/Kg		80	70 - 120	5	30
Butyl benzyl phthalate			100	84.5		ug/Kg		84	69 - 142	3	30
3,3'-Dichlorobenzidine			200	131		ug/Kg		66	20 - 103	5	60
Benzo[a]anthracene			100	80.0		ug/Kg		80	76 - 119	14	27
Chrysene			100	81.9		ug/Kg		82	75 - 114	1	26
Bis(2-ethylhexyl) phthalate			100	82.9		ug/Kg		83	62 - 144	2	30
Di-n-octyl phthalate			100	71.9		ug/Kg		72	65 - 141	2	30
Benzo[b]fluoranthene			100	81.4		ug/Kg		81	63 - 132	5	30
Benzo[k]fluoranthene			100	68.7		ug/Kg		69	63 - 119	7	30
Benzo[a]pyrene			100	76.7		ug/Kg		77	72 - 117	5	30
Indeno[1,2,3-cd]pyrene			100	76.6		ug/Kg		77	56 - 127	8	29
Dibenz(a,h)anthracene			100	82.7		ug/Kg		83	56 - 134	2	30
Benzo[g,h,i]perylene			100	79.1		ug/Kg		79	55 - 139	0	28
N-Nitrosodimethylamine			100	77.5	J	ug/Kg		77	38 - 133	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol	*70*		*36 - 145*
Phenol-d5	*72*		*38 - 149*
2,4,6-Tribromophenol	*78*		*28 - 143*
Nitrobenzene-d5	*77*		*38 - 141*
2-Fluorobiphenyl	*78*		*42 - 140*
Terphenyl-d14	*86*		*42 - 151*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Lab Sample ID: 580-45906-3 MS
Matrix: Solid
Analysis Batch: 174767

Client Sample ID: CC-A-01-2014013-S
Prep Type: Total/NA
Prep Batch: 173001

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenol - DL	ND		175	ND		ug/Kg	☼	NC	63 - 111		
Bis(2-chloroethyl)ether - DL	ND		175	ND		ug/Kg	☼	NC	62 - 110		
2-Chlorophenol - DL	ND		175	ND		ug/Kg	☼	NC	68 - 117		
1,3-Dichlorobenzene - DL	ND	*	175	ND		ug/Kg	☼	NC	64 - 111		
1,4-Dichlorobenzene - DL	ND	*	175	ND		ug/Kg	☼	NC	65 - 110		
Benzyl alcohol - DL	ND		175	370	J	ug/Kg	☼	NC	55 - 123		
1,2-Dichlorobenzene - DL	ND	*	175	ND		ug/Kg	☼	NC	64 - 112		
2-Methylphenol - DL	ND		175	ND		ug/Kg	☼	NC	71 - 116		
2,2'-oxybis[1-chloropropane] - DL	ND		175	ND		ug/Kg	☼	NC	41 - 126		
3 & 4 Methylphenol - DL	ND		175	ND		ug/Kg	☼	NC	70 - 116		
N-Nitrosodi-n-propylamine - DL	ND		175	ND		ug/Kg	☼	NC	62 - 116		
Hexachloroethane - DL	ND		175	ND		ug/Kg	☼	NC	62 - 120		
Nitrobenzene - DL	ND		175	ND		ug/Kg	☼	NC	64 - 118		
Isophorone - DL	ND		175	166	J	ug/Kg	☼	95	67 - 119		
2-Nitrophenol - DL	ND		175	ND		ug/Kg	☼	NC	67 - 127		

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Lab Sample ID: 580-45906-3 MS
Matrix: Solid
Analysis Batch: 174767

Client Sample ID: CC-A-01-2014013-S
Prep Type: Total/NA
Prep Batch: 173001

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol - DL	ND		175	ND		ug/Kg	☼	NC	54 - 139
Benzoic acid - DL	ND		350	ND		ug/Kg	☼	NC	29 - 158
Bis(2-chloroethoxy)methane - DL	ND		175	166	J	ug/Kg	☼	95	69 - 107
2,4-Dichlorophenol - DL	ND		175	ND		ug/Kg	☼	NC	68 - 125
1,2,4-Trichlorobenzene - DL	ND		175	ND		ug/Kg	☼	NC	66 - 115
Naphthalene - DL	ND		175	265	J F1	ug/Kg	☼	151	62 - 112
4-Chloroaniline - DL	ND		175	ND		ug/Kg	☼	NC	20 - 103
Hexachlorobutadiene - DL	ND		175	ND		ug/Kg	☼	NC	65 - 116
4-Chloro-3-methylphenol - DL	ND		175	ND		ug/Kg	☼	NC	69 - 121
2-Methylnaphthalene - DL	390		175	388	F1	ug/Kg	☼	-0.9	64 - 119
1-Methylnaphthalene - DL	310	J	175	316	J F1	ug/Kg	☼	2	62 - 118
Hexachlorocyclopentadiene - DL	ND		175	ND	F1	ug/Kg	☼	0	46 - 131
2,4,6-Trichlorophenol - DL	ND		175	ND		ug/Kg	☼	NC	62 - 133
2,4,5-Trichlorophenol - DL	ND		175	ND		ug/Kg	☼	NC	57 - 133
2-Chloronaphthalene - DL	ND		175	137	J	ug/Kg	☼	78	68 - 112
2-Nitroaniline - DL	ND		175	366	J	ug/Kg	☼	NC	64 - 112
Dimethyl phthalate - DL	ND		175	421	J F1	ug/Kg	☼	241	78 - 117
Acenaphthylene - DL	ND		175	187	J	ug/Kg	☼	107	68 - 120
2,6-Dinitrotoluene - DL	ND		175	267	J	ug/Kg	☼	NC	66 - 123
3-Nitroaniline - DL	ND		175	300	J	ug/Kg	☼	NC	27 - 103
Acenaphthene - DL	ND		175	231	J F1	ug/Kg	☼	132	68 - 116
2,4-Dinitrophenol - DL	ND		350	ND		ug/Kg	☼	NC	20 - 141
4-Nitrophenol - DL	ND		350	ND		ug/Kg	☼	NC	20 - 165
Dibenzofuran - DL	120	J	175	264	J	ug/Kg	☼	83	72 - 109
2,4-Dinitrotoluene - DL	ND		175	ND		ug/Kg	☼	NC	68 - 121
Diethyl phthalate - DL	ND		175	ND		ug/Kg	☼	NC	73 - 116
4-Chlorophenyl phenyl ether - DL	ND		175	ND		ug/Kg	☼	NC	75 - 108
Fluorene - DL	130	J	175	207	J F1	ug/Kg	☼	43	70 - 121
4-Nitroaniline - DL	ND		175	449	J	ug/Kg	☼	NC	58 - 108
4,6-Dinitro-2-methylphenol - DL	ND		350	ND		ug/Kg	☼	NC	48 - 130
N-Nitrosodiphenylamine - DL	ND		175	106	J F1	ug/Kg	☼	61	73 - 115
4-Bromophenyl phenyl ether - DL	ND		175	ND		ug/Kg	☼	NC	68 - 122
Hexachlorobenzene - DL	ND		175	145	J	ug/Kg	☼	83	66 - 117
Pentachlorophenol - DL	ND		350	1400	J	ug/Kg	☼	NC	45 - 117
Phenanthrene - DL	410		175	675	F1	ug/Kg	☼	149	73 - 106
Anthracene - DL	ND	*	175	299	J F1	ug/Kg	☼	171	73 - 116
Carbazole - DL	ND		175	367	J F1	ug/Kg	☼	210	76 - 135
Di-n-butyl phthalate - DL	ND		175	ND		ug/Kg	☼	NC	66 - 140
Fluoranthene - DL	1200		175	1350	4	ug/Kg	☼	84	73 - 125
Pyrene - DL	1200		175	1440	4	ug/Kg	☼	139	70 - 120
Butyl benzyl phthalate - DL	ND		175	ND		ug/Kg	☼	NC	69 - 142
3,3'-Dichlorobenzidine - DL	ND		350	ND		ug/Kg	☼	NC	20 - 103
Benzo[a]anthracene - DL	420		175	725	F1	ug/Kg	☼	176	76 - 119
Chrysene - DL	580		175	640	F1	ug/Kg	☼	34	75 - 114
Bis(2-ethylhexyl) phthalate - DL	16000	B	175	15300	4	ug/Kg	☼	-701	62 - 144
Di-n-octyl phthalate - DL	1100	J	175	1380	J 4	ug/Kg	☼	153	65 - 141
Benzo[b]fluoranthene - DL	640		175	757		ug/Kg	☼	69	63 - 132
Benzo[k]fluoranthene - DL	300	J	175	363	J F1	ug/Kg	☼	38	63 - 119

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Lab Sample ID: 580-45906-3 MS
Matrix: Solid
Analysis Batch: 174767

Client Sample ID: CC-A-01-2014013-S
Prep Type: Total/NA
Prep Batch: 173001

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene - DL	340	J	175	625	F1	ug/Kg	☼	164	72 - 117
Indeno[1,2,3-cd]pyrene - DL	270	J	175	386	J	ug/Kg	☼	66	56 - 127
Dibenz(a,h)anthracene - DL	94	J	175	96.1	J F1	ug/Kg	☼	1	56 - 134
Benzo[g,h,i]perylene - DL	290	J	175	308	J F1	ug/Kg	☼	9	55 - 139
N-Nitrosodimethylamine - DL	ND		175	ND		ug/Kg	☼	NC	38 - 133

Lab Sample ID: 580-45906-3 MSD
Matrix: Solid
Analysis Batch: 174767

Client Sample ID: CC-A-01-2014013-S
Prep Type: Total/NA
Prep Batch: 173001

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol - DL	ND		172	ND		ug/Kg	☼	NC	63 - 111	NC	26
Bis(2-chloroethyl)ether - DL	ND		172	ND		ug/Kg	☼	NC	62 - 110	NC	60
2-Chlorophenol - DL	ND		172	ND		ug/Kg	☼	NC	68 - 117	NC	27
1,3-Dichlorobenzene - DL	ND	*	172	ND		ug/Kg	☼	NC	64 - 111	NC	60
1,4-Dichlorobenzene - DL	ND	*	172	ND		ug/Kg	☼	NC	65 - 110	NC	32
Benzyl alcohol - DL	ND		172	298	J	ug/Kg	☼	NC	55 - 123	22	60
1,2-Dichlorobenzene - DL	ND	*	172	ND		ug/Kg	☼	NC	64 - 112	NC	60
2-Methylphenol - DL	ND		172	ND		ug/Kg	☼	NC	71 - 116	NC	25
2,2'-oxybis[1-chloropropane] - DL	ND		172	ND		ug/Kg	☼	NC	41 - 126	NC	60
3 & 4 Methylphenol - DL	ND		172	ND		ug/Kg	☼	NC	70 - 116	NC	27
N-Nitrosodi-n-propylamine - DL	ND		172	ND		ug/Kg	☼	NC	62 - 116	NC	28
Hexachloroethane - DL	ND		172	ND		ug/Kg	☼	NC	62 - 120	NC	60
Nitrobenzene - DL	ND		172	ND		ug/Kg	☼	NC	64 - 118	NC	60
Isophorone - DL	ND		172	100	J F1	ug/Kg	☼	58	67 - 119	49	60
2-Nitrophenol - DL	ND		172	ND		ug/Kg	☼	NC	67 - 127	NC	60
2,4-Dimethylphenol - DL	ND		172	ND		ug/Kg	☼	NC	54 - 139	NC	60
Benzoic acid - DL	ND		344	ND		ug/Kg	☼	NC	29 - 158	NC	60
Bis(2-chloroethoxy)methane - DL	ND		172	ND	F1	ug/Kg	☼	0	69 - 107	NC	60
2,4-Dichlorophenol - DL	ND		172	ND		ug/Kg	☼	NC	68 - 125	NC	60
1,2,4-Trichlorobenzene - DL	ND		172	ND		ug/Kg	☼	NC	66 - 115	NC	28
Naphthalene - DL	ND		172	154	J F2	ug/Kg	☼	90	62 - 112	53	26
4-Chloroaniline - DL	ND		172	ND		ug/Kg	☼	NC	20 - 103	NC	60
Hexachlorobutadiene - DL	ND		172	ND		ug/Kg	☼	NC	65 - 116	NC	60
4-Chloro-3-methylphenol - DL	ND		172	ND		ug/Kg	☼	NC	69 - 121	NC	27
2-Methylnaphthalene - DL	390		172	419	F1	ug/Kg	☼	17	64 - 119	8	27
1-Methylnaphthalene - DL	310	J	172	297	J F1	ug/Kg	☼	-9	62 - 118	6	30
Hexachlorocyclopentadiene - DL	ND		172	ND	F1	ug/Kg	☼	0	46 - 131	NC	60
2,4,6-Trichlorophenol - DL	ND		172	ND		ug/Kg	☼	NC	62 - 133	NC	60
2,4,5-Trichlorophenol - DL	ND		172	ND		ug/Kg	☼	NC	57 - 133	NC	60
2-Chloronaphthalene - DL	ND		172	ND	F1	ug/Kg	☼	0	68 - 112	NC	25
2-Nitroaniline - DL	ND		172	280	J	ug/Kg	☼	NC	64 - 112	26	60
Dimethyl phthalate - DL	ND		172	1820	F1 F2	ug/Kg	☼	1057	78 - 117	125	60
Acenaphthylene - DL	ND		172	ND	F1	ug/Kg	☼	0	68 - 120	NC	28
2,6-Dinitrotoluene - DL	ND		172	266	J	ug/Kg	☼	NC	66 - 123	0	60
3-Nitroaniline - DL	ND		172	315	J	ug/Kg	☼	NC	27 - 103	5	60
Acenaphthene - DL	ND		172	119	J F2	ug/Kg	☼	69	68 - 116	64	27
2,4-Dinitrophenol - DL	ND		344	ND		ug/Kg	☼	NC	20 - 141	NC	60

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Lab Sample ID: 580-45906-3 MSD | **Client Sample ID: CC-A-01-2014013-S**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 174767 | **Prep Batch: 173001**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Nitrophenol - DL	ND		344	ND		ug/Kg	☼	NC	20 - 165	NC	33
Dibenzofuran - DL	120	J	172	ND	F1	ug/Kg	☼	0	72 - 109	NC	60
2,4-Dinitrotoluene - DL	ND		172	ND		ug/Kg	☼	NC	68 - 121	NC	31
Diethyl phthalate - DL	ND		172	ND		ug/Kg	☼	NC	73 - 116	NC	26
4-Chlorophenyl phenyl ether - DL	ND		172	ND		ug/Kg	☼	NC	75 - 108	NC	60
Fluorene - DL	130	J	172	ND	F1	ug/Kg	☼	0	70 - 121	NC	31
4-Nitroaniline - DL	ND		172	416	J	ug/Kg	☼	NC	58 - 108	8	60
4,6-Dinitro-2-methylphenol - DL	ND		344	ND		ug/Kg	☼	NC	48 - 130	NC	60
N-Nitrosodiphenylamine - DL	ND		172	358	J F1 F2	ug/Kg	☼	208	73 - 115	109	60
4-Bromophenyl phenyl ether - DL	ND		172	ND		ug/Kg	☼	NC	68 - 122	NC	60
Hexachlorobenzene - DL	ND		172	ND	F1	ug/Kg	☼	0	66 - 117	NC	60
Pentachlorophenol - DL	ND		344	ND	F1	ug/Kg	☼	0	45 - 117	NC	68
Phenanthrene - DL	410		172	576		ug/Kg	☼	94	73 - 106	16	28
Anthracene - DL	ND	*	172	196	J F2	ug/Kg	☼	114	73 - 116	42	27
Carbazole - DL	ND		172	196	J F2	ug/Kg	☼	114	76 - 135	61	60
Di-n-butyl phthalate - DL	ND		172	ND		ug/Kg	☼	NC	66 - 140	NC	60
Fluoranthene - DL	1200		172	1840	4	ug/Kg	☼	373	73 - 125	31	36
Pyrene - DL	1200		172	1690	4	ug/Kg	☼	286	70 - 120	16	31
Butyl benzyl phthalate - DL	ND		172	ND		ug/Kg	☼	NC	69 - 142	NC	60
3,3'-Dichlorobenzidine - DL	ND		344	ND		ug/Kg	☼	NC	20 - 103	NC	60
Benzo[a]anthracene - DL	420		172	646	F1	ug/Kg	☼	133	76 - 119	11	27
Chrysene - DL	580		172	1000	F1 F2	ug/Kg	☼	246	75 - 114	44	26
Bis(2-ethylhexyl) phthalate - DL	16000	B	172	17200	4	ug/Kg	☼	408	62 - 144	12	60
Di-n-octyl phthalate - DL	1100	J	172	1270	J 4	ug/Kg	☼	93	65 - 141	8	31
Benzo[b]fluoranthene - DL	640		172	1320	F1 F2	ug/Kg	☼	399	63 - 132	54	31
Benzo[k]fluoranthene - DL	300	J	172	314	J F1	ug/Kg	☼	10	63 - 119	15	31
Benzo[a]pyrene - DL	340	J	172	626	F1	ug/Kg	☼	167	72 - 117	0	30
Indeno[1,2,3-cd]pyrene - DL	270	J	172	365	J F1	ug/Kg	☼	55	56 - 127	6	29
Dibenz(a,h)anthracene - DL	94	J	172	ND	F1	ug/Kg	☼	0	56 - 134	NC	30
Benzo[g,h,i]perylene - DL	290	J	172	246	J F1	ug/Kg	☼	-27	55 - 139	22	28
N-Nitrosodimethylamine - DL	ND		172	ND		ug/Kg	☼	NC	38 - 133	NC	60

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Lab Sample ID: 580-45906-4 MS | **Client Sample ID: CC-CB-04-2014013-S**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 174626 | **Prep Batch: 173678**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol - RE	160	J	167	222	J F1	ug/Kg	☼	39	63 - 111
Bis(2-chloroethyl)ether - RE	ND		167	ND	F1	ug/Kg	☼	0	62 - 110
2-Chlorophenol - RE	ND		167	159	J	ug/Kg	☼	95	68 - 117
1,3-Dichlorobenzene - RE	ND		167	ND	F1	ug/Kg	☼	0	64 - 111
1,4-Dichlorobenzene - RE	ND		167	ND	F1	ug/Kg	☼	0	65 - 110
Benzyl alcohol - RE	ND	*	167	268	J F1	ug/Kg	☼	161	55 - 123
1,2-Dichlorobenzene - RE	ND		167	ND	F1	ug/Kg	☼	0	64 - 112
2-Methylphenol - RE	ND		167	218	J F1	ug/Kg	☼	131	71 - 116

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Lab Sample ID: 580-45906-4 MS
Matrix: Solid
Analysis Batch: 174626

Client Sample ID: CC-CB-04-2014013-S
Prep Type: Total/NA
Prep Batch: 173678

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2'-oxybis[1-chloropropane] - RE	ND		167	ND	F1	ug/Kg	☼	0	41 - 126
3 & 4 Methylphenol - RE	130	J	167	157	J	ug/Kg	☼	94	70 - 116
N-Nitrosodi-n-propylamine - RE	ND		167	ND	F1	ug/Kg	☼	0	62 - 116
Hexachloroethane - RE	ND		167	ND	F1	ug/Kg	☼	0	62 - 120
Nitrobenzene - RE	ND		167	ND		ug/Kg	☼	NC	64 - 118
Isophorone - RE	ND		167	155	J	ug/Kg	☼	93	67 - 119
2-Nitrophenol - RE	ND		167	ND	F1	ug/Kg	☼	0	67 - 127
2,4-Dimethylphenol - RE	ND		167	192	J	ug/Kg	☼	115	54 - 139
Benzoic acid - RE	ND		334	ND		ug/Kg	☼	NC	29 - 158
Bis(2-chloroethoxy)methane - RE	ND		167	122	J	ug/Kg	☼	73	69 - 107
2,4-Dichlorophenol - RE	ND		167	ND	F1	ug/Kg	☼	0	68 - 125
1,2,4-Trichlorobenzene - RE	ND		167	ND	F1	ug/Kg	☼	0	66 - 115
Naphthalene - RE	ND		167	192	F1	ug/Kg	☼	115	62 - 112
4-Chloroaniline - RE	ND		167	ND	F1	ug/Kg	☼	0	20 - 103
Hexachlorobutadiene - RE	ND		167	144	J	ug/Kg	☼	86	65 - 116
4-Chloro-3-methylphenol - RE	ND		167	366	J F1	ug/Kg	☼	220	69 - 121
2-Methylnaphthalene - RE	210		167	191	F1	ug/Kg	☼	-13	64 - 119
1-Methylnaphthalene - RE	110	J	167	183	J F1	ug/Kg	☼	41	62 - 118
Hexachlorocyclopentadiene - RE	ND		167	154	J	ug/Kg	☼	92	46 - 131
2,4,6-Trichlorophenol - RE	ND		167	179	J	ug/Kg	☼	107	62 - 133
2,4,5-Trichlorophenol - RE	ND		167	236	J F1	ug/Kg	☼	142	57 - 133
2-Chloronaphthalene - RE	ND		167	143	J	ug/Kg	☼	86	68 - 112
2-Nitroaniline - RE	ND		167	191	J F1	ug/Kg	☼	115	64 - 112
Dimethyl phthalate - RE	150	J	167	286	J	ug/Kg	☼	82	78 - 117
Acenaphthylene - RE	ND		167	159	J	ug/Kg	☼	95	68 - 120
2,6-Dinitrotoluene - RE	ND		167	245	J F1	ug/Kg	☼	147	66 - 123
3-Nitroaniline - RE	ND		167	221	J F1	ug/Kg	☼	133	27 - 103
Acenaphthene - RE	170		167	213	F1	ug/Kg	☼	29	68 - 116
2,4-Dinitrophenol - RE	ND		334	ND		ug/Kg	☼	NC	20 - 141
4-Nitrophenol - RE	ND	*	334	ND		ug/Kg	☼	NC	20 - 165
Dibenzofuran - RE	ND		167	210	J F1	ug/Kg	☼	126	72 - 109
2,4-Dinitrotoluene - RE	ND		167	222	J F1	ug/Kg	☼	133	68 - 121
Diethyl phthalate - RE	ND		167	344	J F1	ug/Kg	☼	206	73 - 116
4-Chlorophenyl phenyl ether - RE	ND		167	139	J	ug/Kg	☼	83	75 - 108
Fluorene - RE	130	J	167	208	F1	ug/Kg	☼	48	70 - 121
4-Nitroaniline - RE	ND		167	351	J	ug/Kg	☼	NC	58 - 108
4,6-Dinitro-2-methylphenol - RE	ND		334	ND		ug/Kg	☼	NC	48 - 130
N-Nitrosodiphenylamine - RE	ND		166	202	J F1	ug/Kg	☼	121	73 - 115
4-Bromophenyl phenyl ether - RE	ND		167	177	J	ug/Kg	☼	106	68 - 122
Hexachlorobenzene - RE	ND		167	168	J	ug/Kg	☼	100	66 - 117
Pentachlorophenol - RE	ND		334	888	J F1	ug/Kg	☼	266	45 - 117
Phenanthrene - RE	540		167	553	F1	ug/Kg	☼	6	73 - 106
Anthracene - RE	91	J *	167	234		ug/Kg	☼	85	73 - 116
Carbazole - RE	130	J	167	305	J	ug/Kg	☼	107	76 - 135
Di-n-butyl phthalate - RE	ND		167	ND		ug/Kg	☼	NC	66 - 140
Fluoranthene - RE	830		167	1030	4	ug/Kg	☼	116	73 - 125
Pyrene - RE	700		167	769	4	ug/Kg	☼	39	70 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Lab Sample ID: 580-45906-4 MS
Matrix: Solid
Analysis Batch: 174626

Client Sample ID: CC-CB-04-2014013-S
Prep Type: Total/NA
Prep Batch: 173678

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Butyl benzyl phthalate - RE	420	J	167	676	J	ug/Kg	☼	NC	69 - 142
3,3'-Dichlorobenzidine - RE	ND		334	ND	F1	ug/Kg	☼	0	20 - 103
Benzo[a]anthracene - RE	190		167	448	F1	ug/Kg	☼	156	76 - 119
Chrysene - RE	410		167	612	F1	ug/Kg	☼	123	75 - 114
Bis(2-ethylhexyl) phthalate - RE	9500		167	17800	4	ug/Kg	☼	4975	62 - 144
Di-n-octyl phthalate - RE	790	J	167	1340	J 4	ug/Kg	☼	327	65 - 141
Benzo[b]fluoranthene - RE	540		167	605	F1	ug/Kg	☼	38	63 - 132
Benzo[k]fluoranthene - RE	210		167	406		ug/Kg	☼	115	63 - 119
Benzo[a]pyrene - RE	330		167	363	F1	ug/Kg	☼	22	72 - 117
Indeno[1,2,3-cd]pyrene - RE	210	J	167	205	J F1	ug/Kg	☼	-0.1	56 - 127
Dibenz(a,h)anthracene - RE	ND		167	81.9	J F1	ug/Kg	☼	49	56 - 134
Benzo[g,h,i]perylene - RE	210		167	163	J F1	ug/Kg	☼	-30	55 - 139
N-Nitrosodimethylamine - RE	ND		167	ND		ug/Kg	☼	NC	38 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol - RE	*59*		*36 - 145*
Phenol-d5 - RE	*81*		*38 - 149*
2,4,6-Tribromophenol - RE	*110*		*28 - 143*
Nitrobenzene-d5 - RE	*54*		*38 - 141*
2-Fluorobiphenyl - RE	*56*		*42 - 140*
Terphenyl-d14 - RE	*119*		*42 - 151*

Lab Sample ID: 580-45906-4 MSD
Matrix: Solid
Analysis Batch: 174626

Client Sample ID: CC-CB-04-2014013-S
Prep Type: Total/NA
Prep Batch: 173678

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol - RE	160	J	165	223	J F1	ug/Kg	☼	40	63 - 111	0	26
Bis(2-chloroethyl)ether - RE	ND		165	ND	F1	ug/Kg	☼	0	62 - 110	NC	60
2-Chlorophenol - RE	ND		165	ND	F1	ug/Kg	☼	0	68 - 117	NC	27
1,3-Dichlorobenzene - RE	ND		165	126	J	ug/Kg	☼	77	64 - 111	NC	60
1,4-Dichlorobenzene - RE	ND		165	ND	F1	ug/Kg	☼	0	65 - 110	NC	32
Benzyl alcohol - RE	ND	*	165	235	J F1	ug/Kg	☼	142	55 - 123	13	60
1,2-Dichlorobenzene - RE	ND		165	ND	F1	ug/Kg	☼	0	64 - 112	NC	60
2-Methylphenol - RE	ND		165	182	J	ug/Kg	☼	110	71 - 116	18	25
2,2'-oxybis[1-chloropropane] - RE	ND		165	ND	F1	ug/Kg	☼	0	41 - 126	NC	60
3 & 4 Methylphenol - RE	130	J	165	214	J F1 F2	ug/Kg	☼	130	70 - 116	31	27
N-Nitrosodi-n-propylamine - RE	ND		165	ND	F1	ug/Kg	☼	0	62 - 116	NC	28
Hexachloroethane - RE	ND		165	120	J F1	ug/Kg	☼	0	62 - 120	NC	60
Nitrobenzene - RE	ND		165	442	J	ug/Kg	☼	NC	64 - 118	NC	60
Isophorone - RE	ND		165	110	J	ug/Kg	☼	67	67 - 119	34	60
2-Nitrophenol - RE	ND		165	ND	F1	ug/Kg	☼	0	67 - 127	NC	60
2,4-Dimethylphenol - RE	ND		165	178	J	ug/Kg	☼	108	54 - 139	7	60
Benzoic acid - RE	ND		330	ND		ug/Kg	☼	NC	29 - 158	NC	60
Bis(2-chloroethoxy)methane - RE	ND		165	115	J	ug/Kg	☼	70	69 - 107	6	60
2,4-Dichlorophenol - RE	ND		165	140	J	ug/Kg	☼	85	68 - 125	NC	60
1,2,4-Trichlorobenzene - RE	ND		165	123	J	ug/Kg	☼	75	66 - 115	NC	28

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Lab Sample ID: 580-45906-4 MSD
Matrix: Solid
Analysis Batch: 174626

Client Sample ID: CC-CB-04-2014013-S
Prep Type: Total/NA
Prep Batch: 173678

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene - RE	ND		165	219	F1	ug/Kg	☼	133	62 - 112	13	26
4-Chloroaniline - RE	ND		165	ND	F1	ug/Kg	☼	0	20 - 103	NC	60
Hexachlorobutadiene - RE	ND		165	ND	F1	ug/Kg	☼	0	65 - 116	NC	60
4-Chloro-3-methylphenol - RE	ND		165	286	J F1	ug/Kg	☼	173	69 - 121	25	27
2-Methylnaphthalene - RE	210		165	188	F1	ug/Kg	☼	-15	64 - 119	1	27
1-Methylnaphthalene - RE	110	J	165	163	J F1	ug/Kg	☼	29	62 - 118	12	30
Hexachlorocyclopentadiene - RE	ND		165	ND	F1	ug/Kg	☼	0	46 - 131	NC	60
2,4,6-Trichlorophenol - RE	ND		165	183	J	ug/Kg	☼	111	62 - 133	2	60
2,4,5-Trichlorophenol - RE	ND		165	202	J	ug/Kg	☼	122	57 - 133	16	60
2-Chloronaphthalene - RE	ND		165	112	J	ug/Kg	☼	68	68 - 112	25	25
2-Nitroaniline - RE	ND		165	278	J F1	ug/Kg	☼	168	64 - 112	37	60
Dimethyl phthalate - RE	150	J	165	573	J F1 F2	ug/Kg	☼	257	78 - 117	67	60
Acenaphthylene - RE	ND		165	138	J	ug/Kg	☼	83	68 - 120	14	28
2,6-Dinitrotoluene - RE	ND		165	252	J F1	ug/Kg	☼	153	66 - 123	3	60
3-Nitroaniline - RE	ND		165	171	J	ug/Kg	☼	103	27 - 103	26	60
Acenaphthene - RE	170		165	195	F1	ug/Kg	☼	18	68 - 116	9	27
2,4-Dinitrophenol - RE	ND		330	ND		ug/Kg	☼	NC	20 - 141	NC	60
4-Nitrophenol - RE	ND	*	330	ND		ug/Kg	☼	NC	20 - 165	NC	33
Dibenzofuran - RE	ND		165	202	J F1	ug/Kg	☼	123	72 - 109	3	60
2,4-Dinitrotoluene - RE	ND		165	234	J F1	ug/Kg	☼	141	68 - 121	5	31
Diethyl phthalate - RE	ND		165	303	J F1	ug/Kg	☼	184	73 - 116	13	26
4-Chlorophenyl phenyl ether - RE	ND		165	ND	F1	ug/Kg	☼	0	75 - 108	NC	60
Fluorene - RE	130	J	165	183	F1	ug/Kg	☼	34	70 - 121	13	31
4-Nitroaniline - RE	ND		165	254	J	ug/Kg	☼	NC	58 - 108	32	60
4,6-Dinitro-2-methylphenol - RE	ND		330	ND		ug/Kg	☼	NC	48 - 130	NC	60
N-Nitrosodiphenylamine - RE	ND		165	210	J F1	ug/Kg	☼	128	73 - 115	4	60
4-Bromophenyl phenyl ether - RE	ND		165	271	J F1	ug/Kg	☼	164	68 - 122	42	60
Hexachlorobenzene - RE	ND		165	119	J	ug/Kg	☼	72	66 - 117	34	60
Pentachlorophenol - RE	ND		330	781	J F1	ug/Kg	☼	237	45 - 117	13	68
Phenanthrene - RE	540		165	400	F1 F2	ug/Kg	☼	-87	73 - 106	32	28
Anthracene - RE	91	J *	165	167	J F1 F2	ug/Kg	☼	46	73 - 116	34	27
Carbazole - RE	130	J	165	220	J F1	ug/Kg	☼	57	76 - 135	32	60
Di-n-butyl phthalate - RE	ND		165	ND		ug/Kg	☼	NC	66 - 140	NC	60
Fluoranthene - RE	830		165	783	4	ug/Kg	☼	-31	73 - 125	27	36
Pyrene - RE	700		165	646	4	ug/Kg	☼	-34	70 - 120	17	31
Butyl benzyl phthalate - RE	420	J	165	620	J	ug/Kg	☼	NC	69 - 142	9	60
3,3'-Dichlorobenzidine - RE	ND		330	ND	F1	ug/Kg	☼	0	20 - 103	NC	60
Benzo[a]anthracene - RE	190		165	355		ug/Kg	☼	101	76 - 119	23	27
Chrysene - RE	410		165	523	F1	ug/Kg	☼	70	75 - 114	16	26
Bis(2-ethylhexyl) phthalate - RE	9500		165	11700	4	ug/Kg	☼	1336	62 - 144	41	60
Di-n-octyl phthalate - RE	790	J	165	2140	J 4 F2	ug/Kg	☼	813	65 - 141	46	31
Benzo[b]fluoranthene - RE	540		165	761	F1	ug/Kg	☼	133	63 - 132	23	31
Benzo[k]fluoranthene - RE	210		165	107	J F1 F2	ug/Kg	☼	-65	63 - 119	117	31
Benzo[a]pyrene - RE	330		165	277	F1	ug/Kg	☼	-30	72 - 117	27	30
Indeno[1,2,3-cd]pyrene - RE	210	J	165	127	J F1 F2	ug/Kg	☼	-47	56 - 127	47	29
Dibenz(a,h)anthracene - RE	ND		165	129	J F2	ug/Kg	☼	78	56 - 134	45	30
Benzo[g,h,i]perylene - RE	210		165	100	J F1 F2	ug/Kg	☼	-69	55 - 139	47	28
N-Nitrosodimethylamine - RE	ND		165	ND		ug/Kg	☼	NC	38 - 133	NC	60

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Lab Sample ID: 580-45906-4 MSD
Matrix: Solid
Analysis Batch: 174626

Client Sample ID: CC-CB-04-2014013-S
Prep Type: Total/NA
Prep Batch: 173678

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol - RE	*60*		*36 - 145*
Phenol-d5 - RE	*76*		*38 - 149*
2,4,6-Tribromophenol - RE	*133*		*28 - 143*
Nitrobenzene-d5 - RE	*54*		*38 - 141*
2-Fluorobiphenyl - RE	*51*		*42 - 140*
Terphenyl-d14 - RE	*115*		*42 - 151*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-173048/1-A
Matrix: Solid
Analysis Batch: 173053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 173048

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1.10	J	4.0	0.50	mg/Kg		10/17/14 14:50	10/17/14 17:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*50 - 150*	*10/17/14 14:50*	*10/17/14 17:48*	*1*

Lab Sample ID: LCS 580-173048/2-A
Matrix: Solid
Analysis Batch: 173053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 173048

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			40.0	43.1		mg/Kg		108	68 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*50 - 150*

Lab Sample ID: LCSD 580-173048/3-A
Matrix: Solid
Analysis Batch: 173053

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 173048

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			40.0	43.0		mg/Kg		107	68 - 120	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*50 - 150*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-173768/1-A
Matrix: Solid
Analysis Batch: 174076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 173768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	ND		0.010	0.0032	mg/Kg		10/27/14 06:00	10/28/14 15:27	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 580-173768/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 174076 — **Prep Batch: 173768**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1221	ND		0.011	0.0080	mg/Kg		10/27/14 06:00	10/28/14 15:27	1
Arochlor 1232	ND		0.011	0.0070	mg/Kg		10/27/14 06:00	10/28/14 15:27	1
Arochlor 1242	ND		0.010	0.0021	mg/Kg		10/27/14 06:00	10/28/14 15:27	1
Arochlor 1248	ND		0.010	0.0030	mg/Kg		10/27/14 06:00	10/28/14 15:27	1
Arochlor 1254	ND		0.010	0.0021	mg/Kg		10/27/14 06:00	10/28/14 15:27	1
Arochlor 1260	ND		0.010	0.0030	mg/Kg		10/27/14 06:00	10/28/14 15:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*45 - 135*	*10/27/14 06:00*	*10/28/14 15:27*	*1*
DCB Decachlorobiphenyl	*95*		*50 - 140*	*10/27/14 06:00*	*10/28/14 15:27*	*1*

Lab Sample ID: LCS 580-173768/14-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 174076 — **Prep Batch: 173768**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arochlor 1016	0.100	0.103		mg/Kg		103	40 - 140
Arochlor 1260	0.100	0.0962		mg/Kg		96	60 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*45 - 135*
DCB Decachlorobiphenyl	*106*		*50 - 140*

Lab Sample ID: LCSD 580-173768/15-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 174076 — **Prep Batch: 173768**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arochlor 1016	0.100	0.112		mg/Kg		112	40 - 140	9	20
Arochlor 1260	0.100	0.0985		mg/Kg		98	60 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*45 - 135*
DCB Decachlorobiphenyl	*105*		*50 - 140*

Lab Sample ID: 580-45906-4 MS — **Client Sample ID: CC-CB-04-2014013-S**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 174076 — **Prep Batch: 173768**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arochlor 1016	ND		0.162	0.201		mg/Kg	☼	124	40 - 140
Arochlor 1260	0.43		0.162	1.00	F1	mg/Kg	☼	354	60 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*73*		*45 - 135*
DCB Decachlorobiphenyl	*69*		*50 - 140*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 580-45906-4 MSD
Matrix: Solid
Analysis Batch: 174076

Client Sample ID: CC-CB-04-2014013-S
Prep Type: Total/NA
Prep Batch: 173768

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arochlor 1016	ND		0.162	0.163	F2	mg/Kg	☼	101	40 - 140	21	20
Arochlor 1260	0.43		0.162	0.450	F1 F2	mg/Kg	☼	12	60 - 130	76	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*71*		*45 - 135*
DCB Decachlorobiphenyl	*72*		*50 - 140*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-173189/1-A
Matrix: Solid
Analysis Batch: 173296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 173189

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	10.0	J	25	5.7	mg/Kg		10/20/14 10:52	10/21/14 13:04	1
Motor Oil (>C24-C36)	ND		50	9.1	mg/Kg		10/20/14 10:52	10/21/14 13:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*10/20/14 10:52*	*10/21/14 13:04*	*1*

Lab Sample ID: LCS 580-173189/2-A
Matrix: Solid
Analysis Batch: 173296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 173189

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			500	462		mg/Kg		92	70 - 125		
Motor Oil (>C24-C36)			502	509		mg/Kg		101	64 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*95*		*50 - 150*

Lab Sample ID: LCSD 580-173189/3-A
Matrix: Solid
Analysis Batch: 173296

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 173189

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			500	453		mg/Kg		91	70 - 125	2	16
Motor Oil (>C24-C36)			502	502		mg/Kg		100	64 - 127	1	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*91*		*50 - 150*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 580-45906-5 MS
Matrix: Solid
Analysis Batch: 173296

Client Sample ID: CC-CB-22-2014013-S
Prep Type: Total/NA
Prep Batch: 173189

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	410	B Y	843	1070		mg/Kg	☼	79	70 - 125
Motor Oil (>C24-C36)	1900	Y	846	2560		mg/Kg	☼	78	64 - 127

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*89*		*50 - 150*

Lab Sample ID: 580-45906-5 MSD
Matrix: Solid
Analysis Batch: 173296

Client Sample ID: CC-CB-22-2014013-S
Prep Type: Total/NA
Prep Batch: 173189

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	410	B Y	858	1160		mg/Kg	☼	88	70 - 125	8	16
Motor Oil (>C24-C36)	1900	Y	861	2610		mg/Kg	☼	83	64 - 127	2	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*90*		*50 - 150*

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-172766/20-A
Matrix: Water
Analysis Batch: 172910

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 172766

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010	0.00075	mg/L		10/15/14 12:02	10/16/14 08:20	1
Antimony	ND		0.00040	0.000080	mg/L		10/15/14 12:02	10/16/14 08:20	1
Beryllium	ND		0.00040	0.00010	mg/L		10/15/14 12:02	10/16/14 08:20	1
Cadmium	ND		0.00040	0.000028	mg/L		10/15/14 12:02	10/16/14 08:20	1
Chromium	ND		0.00040	0.00027	mg/L		10/15/14 12:02	10/16/14 08:20	1
Copper	ND		0.0010	0.00011	mg/L		10/15/14 12:02	10/16/14 08:20	1
Lead	ND		0.00040	0.000034	mg/L		10/15/14 12:02	10/16/14 08:20	1
Nickel	ND		0.0030	0.00040	mg/L		10/15/14 12:02	10/16/14 08:20	1
Selenium	ND		0.0010	0.00071	mg/L		10/15/14 12:02	10/16/14 08:20	1
Silver	ND		0.00040	0.000030	mg/L		10/15/14 12:02	10/16/14 08:20	1
Thallium	ND		0.0010	0.00028	mg/L		10/15/14 12:02	10/16/14 08:20	1
Zinc	ND		0.0040	0.0019	mg/L		10/15/14 12:02	10/16/14 08:20	1

Lab Sample ID: LCS 580-172766/21-A
Matrix: Water
Analysis Batch: 172910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 172766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0969		mg/L		97	80 - 120
Antimony	0.100	0.0945		mg/L		94	80 - 120
Beryllium	0.100	0.0928		mg/L		93	80 - 120
Cadmium	0.100	0.0944		mg/L		94	80 - 120
Chromium	0.100	0.0895		mg/L		90	80 - 120

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-172766/21-A
Matrix: Water
Analysis Batch: 172910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 172766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.100	0.0898		mg/L		90	80 - 120
Lead	0.100	0.0933		mg/L		93	80 - 120
Nickel	0.100	0.0909		mg/L		91	80 - 120
Selenium	0.100	0.105		mg/L		105	80 - 120
Silver	0.100	0.0931		mg/L		93	80 - 120
Thallium	0.100	0.0951		mg/L		95	80 - 120
Zinc	0.100	0.0975		mg/L		97	80 - 120

Lab Sample ID: LCSD 580-172766/22-A
Matrix: Water
Analysis Batch: 172910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 172766

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.100	0.0977		mg/L		98	80 - 120	1	20
Antimony	0.100	0.0944		mg/L		94	80 - 120	0	20
Beryllium	0.100	0.0938		mg/L		94	80 - 120	1	20
Cadmium	0.100	0.0945		mg/L		95	80 - 120	0	20
Chromium	0.100	0.0907		mg/L		91	80 - 120	1	20
Copper	0.100	0.0910		mg/L		91	80 - 120	1	20
Lead	0.100	0.0927		mg/L		93	80 - 120	1	20
Nickel	0.100	0.0915		mg/L		91	80 - 120	1	20
Selenium	0.100	0.105		mg/L		105	80 - 120	0	20
Silver	0.100	0.0935		mg/L		93	80 - 120	0	20
Thallium	0.100	0.0942		mg/L		94	80 - 120	1	20
Zinc	0.100	0.0983		mg/L		98	80 - 120	1	20

Lab Sample ID: 580-45906-1 MS
Matrix: Water
Analysis Batch: 172910

Client Sample ID: CC-A-01-2014013-W
Prep Type: Total/NA
Prep Batch: 172766

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0018		0.100	0.104		mg/L		102	80 - 120
Antimony	0.0015		0.100	0.0987		mg/L		97	80 - 120
Beryllium	ND		0.100	0.0979		mg/L		98	80 - 120
Cadmium	0.00024	J	0.100	0.0961		mg/L		96	80 - 120
Chromium	0.0011		0.100	0.0951		mg/L		94	80 - 120
Copper	0.012		0.100	0.105		mg/L		94	80 - 120
Lead	0.0017		0.100	0.101		mg/L		99	80 - 120
Nickel	0.0075		0.100	0.102		mg/L		94	80 - 120
Selenium	ND		0.100	0.110		mg/L		110	80 - 120
Silver	ND		0.100	0.0987		mg/L		99	80 - 120
Thallium	ND		0.100	0.101		mg/L		101	80 - 120
Zinc	0.070		0.100	0.162		mg/L		92	80 - 120

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-45906-1 MSD
Matrix: Water
Analysis Batch: 172910

Client Sample ID: CC-A-01-2014013-W
Prep Type: Total/NA
Prep Batch: 172766

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0018		0.100	0.106		mg/L		104	80 - 120	2	20
Antimony	0.0015		0.100	0.0996		mg/L		98	80 - 120	1	20
Beryllium	ND		0.100	0.0999		mg/L		100	80 - 120	2	20
Cadmium	0.00024	J	0.100	0.0965		mg/L		96	80 - 120	0	20
Chromium	0.0011		0.100	0.0968		mg/L		96	80 - 120	2	20
Copper	0.012		0.100	0.106		mg/L		94	80 - 120	1	20
Lead	0.0017		0.100	0.102		mg/L		100	80 - 120	1	20
Nickel	0.0075		0.100	0.103		mg/L		96	80 - 120	2	20
Selenium	ND		0.100	0.111		mg/L		111	80 - 120	1	20
Silver	ND		0.100	0.0996		mg/L		100	80 - 120	1	20
Thallium	ND		0.100	0.103		mg/L		103	80 - 120	1	20
Zinc	0.070		0.100	0.165		mg/L		95	80 - 120	2	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 580-172758/25-A
Matrix: Water
Analysis Batch: 172806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 172758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000041	mg/L		10/15/14 10:50	10/15/14 13:00	1

Lab Sample ID: LCS 580-172758/26-A
Matrix: Water
Analysis Batch: 172806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 172758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00191		mg/L		96	80 - 120

Lab Sample ID: LCSD 580-172758/27-A
Matrix: Water
Analysis Batch: 172806

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 172758

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00200	0.00192		mg/L		96	80 - 120	0	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 580-172827/21-A
Matrix: Solid
Analysis Batch: 173140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 172827

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.50	0.18	mg/Kg		10/15/14 17:54	10/16/14 16:55	10
Lead	ND		0.20	0.013	mg/Kg		10/15/14 17:54	10/16/14 16:55	10
Antimony	ND		0.20	0.042	mg/Kg		10/15/14 17:54	10/16/14 16:55	10
Beryllium	ND		0.20	0.035	mg/Kg		10/15/14 17:54	10/16/14 16:55	10
Cadmium	ND		0.20	0.0080	mg/Kg		10/15/14 17:54	10/16/14 16:55	10

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-172827/21-A
Matrix: Solid
Analysis Batch: 173140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 172827

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.20	0.11	mg/Kg		10/15/14 17:54	10/16/14 16:55	10
Copper	0.116	J	0.40	0.098	mg/Kg		10/15/14 17:54	10/16/14 16:55	10
Nickel	ND		0.50	0.081	mg/Kg		10/15/14 17:54	10/16/14 16:55	10
Selenium	ND		0.70	0.20	mg/Kg		10/15/14 17:54	10/16/14 16:55	10
Silver	ND		0.20	0.012	mg/Kg		10/15/14 17:54	10/16/14 16:55	10
Thallium	ND		0.50	0.13	mg/Kg		10/15/14 17:54	10/16/14 16:55	10
Zinc	ND		2.0	1.1	mg/Kg		10/15/14 17:54	10/16/14 16:55	10

Lab Sample ID: LCS 580-172827/22-A
Matrix: Solid
Analysis Batch: 173140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 172827

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	200	201		mg/Kg		100	80 - 120
Lead	50.0	50.3		mg/Kg		101	80 - 120
Antimony	150	150		mg/Kg		100	80 - 120
Beryllium	5.00	5.12		mg/Kg		102	80 - 120
Cadmium	5.00	5.28		mg/Kg		106	80 - 120
Chromium	20.0	19.8		mg/Kg		99	80 - 120
Copper	25.0	25.9		mg/Kg		104	80 - 120
Nickel	50.0	50.7		mg/Kg		101	80 - 120
Selenium	200	196		mg/Kg		98	80 - 120
Silver	30.0	30.4		mg/Kg		101	80 - 120
Thallium	200	192		mg/Kg		96	80 - 120
Zinc	200	200		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 580-172827/23-A
Matrix: Solid
Analysis Batch: 173140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 172827

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	200	199		mg/Kg		99	80 - 120	1	20
Lead	50.0	49.8		mg/Kg		100	80 - 120	1	20
Antimony	150	149		mg/Kg		99	80 - 120	0	20
Beryllium	5.00	5.03		mg/Kg		101	80 - 120	2	20
Cadmium	5.00	5.26		mg/Kg		105	80 - 120	0	20
Chromium	20.0	19.7		mg/Kg		99	80 - 120	0	20
Copper	25.0	25.0		mg/Kg		100	80 - 120	3	20
Nickel	50.0	50.0		mg/Kg		100	80 - 120	1	20
Selenium	200	198		mg/Kg		99	80 - 120	1	20
Silver	30.0	30.5		mg/Kg		102	80 - 120	0	20
Thallium	200	191		mg/Kg		96	80 - 120	0	20
Zinc	200	199		mg/Kg		100	80 - 120	0	20

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-45906-5 MS
Matrix: Solid
Analysis Batch: 173140

Client Sample ID: CC-CB-22-2014013-S
Prep Type: Total/NA
Prep Batch: 172827

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	16		251	281		mg/Kg	☼	106	80 - 120
Lead	180		62.7	262	F1	mg/Kg	☼	127	80 - 120
Antimony	8.3		188	190		mg/Kg	☼	97	80 - 120
Beryllium	0.89		6.27	7.75		mg/Kg	☼	109	80 - 120
Cadmium	2.0		6.27	9.30		mg/Kg	☼	116	80 - 120
Chromium	380		25.1	376	4	mg/Kg	☼	2	80 - 120
Copper	540	B	31.3	577	4	mg/Kg	☼	113	80 - 120
Nickel	360		62.7	387	4	mg/Kg	☼	51	80 - 120
Selenium	2.4		251	262		mg/Kg	☼	104	80 - 120
Silver	1.0		37.6	40.5		mg/Kg	☼	105	80 - 120
Thallium	0.22	J	251	258		mg/Kg	☼	103	80 - 120
Zinc	1100		251	1470	4	mg/Kg	☼	139	80 - 120

Lab Sample ID: 580-45906-5 MSD
Matrix: Solid
Analysis Batch: 173140

Client Sample ID: CC-CB-22-2014013-S
Prep Type: Total/NA
Prep Batch: 172827

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	16		275	319		mg/Kg	☼	110	80 - 120	13	20
Lead	180		68.7	282	F1	mg/Kg	☼	146	80 - 120	8	20
Antimony	8.3		206	216		mg/Kg	☼	101	80 - 120	13	20
Beryllium	0.89		6.87	8.61		mg/Kg	☼	112	80 - 120	11	20
Cadmium	2.0		6.87	9.45		mg/Kg	☼	108	80 - 120	2	20
Chromium	380		27.5	499	4 F2	mg/Kg	☼	453	80 - 120	28	20
Copper	540	B	34.3	800	4 F2	mg/Kg	☼	751	80 - 120	32	20
Nickel	360		68.7	487	4 F2	mg/Kg	☼	192	80 - 120	23	20
Selenium	2.4		275	299		mg/Kg	☼	108	80 - 120	13	20
Silver	1.0		41.2	45.7		mg/Kg	☼	108	80 - 120	12	20
Thallium	0.22	J	275	294		mg/Kg	☼	107	80 - 120	13	20
Zinc	1100		275	1630	4	mg/Kg	☼	186	80 - 120	10	20

Lab Sample ID: 580-45906-5 DU
Matrix: Solid
Analysis Batch: 173140

Client Sample ID: CC-CB-22-2014013-S
Prep Type: Total/NA
Prep Batch: 172827

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	16		16.6		mg/Kg	☼	3	20
Lead	180		187		mg/Kg	☼	3	20
Antimony	8.3		8.52		mg/Kg	☼	3	20
Beryllium	0.89		0.890		mg/Kg	☼	0.3	20
Cadmium	2.0		2.18		mg/Kg	☼	7	20
Chromium	380		386		mg/Kg	☼	3	20
Copper	540	B	561		mg/Kg	☼	3	20
Nickel	360		368		mg/Kg	☼	3	20
Selenium	2.4		2.35		mg/Kg	☼	0.7	20
Silver	1.0		1.01		mg/Kg	☼	0.3	20
Thallium	0.22	J	0.221	J	mg/Kg	☼	2	20
Zinc	1100		1160		mg/Kg	☼	4	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-172822/17-A
Matrix: Solid
Analysis Batch: 172879

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 172822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0053	mg/Kg		10/15/14 17:07	10/16/14 09:51	1

Lab Sample ID: LCS 580-172822/18-A
Matrix: Solid
Analysis Batch: 172879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 172822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.151		mg/Kg		90	80 - 120

Lab Sample ID: LCSD 580-172822/19-A
Matrix: Solid
Analysis Batch: 172879

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 172822

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.167	0.154		mg/Kg		92	80 - 120	2	20

Method: 120.1 - Conductivity, Specific Conductance

Lab Sample ID: MB 580-173061/1
Matrix: Water
Analysis Batch: 173061

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		10	10	umhos/cm			10/17/14 16:30	1

Lab Sample ID: LCS 580-173061/2
Matrix: Water
Analysis Batch: 173061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance	100	107		umhos/cm		107	90 - 110

Lab Sample ID: 580-45906-1 DU
Matrix: Water
Analysis Batch: 173061

Client Sample ID: CC-A-01-2014013-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	170		166		umhos/cm		0.1	20

Method: 2320B - Alkalinity - Titrimetric

Lab Sample ID: LCS 580-173038/2
Matrix: Water
Analysis Batch: 173038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	104		mg/L		104	85 - 115

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-172865/1
Matrix: Water
Analysis Batch: 172865

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.90	0.20	mg/L			10/15/14 11:09	1

Lab Sample ID: LCS 580-172865/2
Matrix: Water
Analysis Batch: 172865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N			1.80	1.85		mg/L		103	90 - 110		

Lab Sample ID: LCSD 580-172865/3
Matrix: Water
Analysis Batch: 172865

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N			1.80	1.85		mg/L		103	90 - 110	0	15

Lab Sample ID: 580-45906-1 MS
Matrix: Water
Analysis Batch: 172865

Client Sample ID: CC-A-01-2014013-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	0.22	J H	1.80	2.13		mg/L		106	90 - 110		

Lab Sample ID: 580-45906-1 DU
Matrix: Water
Analysis Batch: 172865

Client Sample ID: CC-A-01-2014013-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	0.22	J H		0.220	J	mg/L				0	10

Lab Sample ID: MB 580-172903/1
Matrix: Water
Analysis Batch: 172903

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.90	0.30	mg/L			10/15/14 11:09	1
Sulfate	ND		1.2	0.40	mg/L			10/15/14 11:09	1

Lab Sample ID: LCS 580-172903/2
Matrix: Water
Analysis Batch: 172903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			9.00	9.41		mg/L		105	90 - 110		
Sulfate			12.0	11.5		mg/L		96	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 580-172903/3
Matrix: Water
Analysis Batch: 172903

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			9.00	9.41		mg/L		105	90 - 110	0	15
Sulfate			12.0	11.3		mg/L		95	90 - 110	2	15

Lab Sample ID: 580-45906-1 MS
Matrix: Water
Analysis Batch: 172903

Client Sample ID: CC-A-01-2014013-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	11		9.00	20.9		mg/L		106	90 - 110
Sulfate	12		12.0	23.7		mg/L		97	90 - 110

Lab Sample ID: 580-45906-1 DU
Matrix: Water
Analysis Batch: 172903

Client Sample ID: CC-A-01-2014013-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	11		11.4		mg/L		0.4	10
Sulfate	12		12.0		mg/L		0.08	10

Method: 9060_PSEP - TOC (Puget Sound)

Lab Sample ID: MB 580-173358/3
Matrix: Solid
Analysis Batch: 173358

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		2000	250	mg/Kg			10/21/14 12:24	1

Lab Sample ID: LCS 580-173358/4
Matrix: Solid
Analysis Batch: 173358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon			2850	3100		mg/Kg		109	27.8 - 170

Lab Sample ID: LCSD 580-173358/5
Matrix: Solid
Analysis Batch: 173358

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon			2850	3000		mg/Kg		105	27.8 - 170	3	35

Lab Sample ID: 580-45906-4 MS
Matrix: Solid
Analysis Batch: 173358

Client Sample ID: CC-CB-04-2014013-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	69000		124000	174000		mg/Kg		85	50 - 140

Method: 9060_PSEP - TOC (Puget Sound) (Continued)

Lab Sample ID: 580-45906-4 MSD — **Client Sample ID: CC-CB-04-2014013-S**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 173358

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	69000		119000	185000		mg/Kg		97	50 - 140	6	35

Lab Sample ID: 580-45906-4 DU — **Client Sample ID: CC-CB-04-2014013-S**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 173358

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	69000		59400		mg/Kg		15	50

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 580-173015/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173015

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		2.0	2.0	mg/L			10/17/14 12:16	1

Lab Sample ID: LCS 580-173015/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173015

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	30.0	24.8		mg/L		83	70.6 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: 580-45906-2 DU — **Client Sample ID: CC-FD-02-2014013-W**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 172829

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.07	HF	7.130		SU		0.8	1

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-173083/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173083

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.33	mg/L			10/18/14 12:23	1

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 580-173083/2
Matrix: Water
Analysis Batch: 173083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	15.0	16.4		mg/L		109	85 - 115

Lab Sample ID: MB 580-173201/1
Matrix: Water
Analysis Batch: 173201

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.33	mg/L			10/20/14 11:41	1

Lab Sample ID: LCS 580-173201/2
Matrix: Water
Analysis Batch: 173201

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	15.0	16.6		mg/L		111	85 - 115

Client Sample ID: CC-A-01-2014013-W

Lab Sample ID: 580-45906-1

Date Collected: 10/13/14 11:45

Matrix: Water

Date Received: 10/14/14 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			172794	10/15/14 13:10	LHJ	TAL SEA
Total/NA	Analysis	8270D		1	173503	10/22/14 17:00	AHP	TAL SEA
Total/NA	Prep	200.8			172766	10/15/14 12:02	PAB	TAL SEA
Total/NA	Analysis	200.8		1	172910	10/16/14 09:16	FCW	TAL SEA
Total/NA	Prep	245.1			172758	10/15/14 10:49	PAB	TAL SEA
Total/NA	Analysis	245.1		1	172806	10/15/14 13:30	FCW	TAL SEA
Total/NA	Analysis	120.1		1	173061	10/17/14 16:30	JLS	TAL SEA
Total/NA	Analysis	2320B		1	173038	10/17/14 13:34	SPP	TAL SEA
Total/NA	Analysis	300.0		1	172865	10/15/14 14:54	JLS	TAL SEA
Total/NA	Analysis	300.0		1	172903	10/15/14 14:54	JLS	TAL SEA
Total/NA	Analysis	SM 2540D		1	173015	10/17/14 12:16	LKC	TAL SEA
Total/NA	Analysis	SM 4500 H+ B		1	172829	10/15/14 11:05	JLS	TAL SEA
Dissolved	Analysis	SM 5310B		1	173201	10/20/14 11:41	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	173083	10/18/14 22:06	JLS	TAL SEA

Client Sample ID: CC-FD-02-2014013-W

Lab Sample ID: 580-45906-2

Date Collected: 10/13/14 11:45

Matrix: Water

Date Received: 10/14/14 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			172794	10/15/14 13:10	LHJ	TAL SEA
Total/NA	Analysis	8270D		1	173503	10/22/14 17:26	AHP	TAL SEA
Total/NA	Prep	200.8			172766	10/15/14 12:02	PAB	TAL SEA
Total/NA	Analysis	200.8		1	172910	10/16/14 09:26	FCW	TAL SEA
Total/NA	Prep	245.1			172758	10/15/14 10:49	PAB	TAL SEA
Total/NA	Analysis	245.1		1	172806	10/15/14 13:33	FCW	TAL SEA
Total/NA	Analysis	120.1		1	173061	10/17/14 16:30	JLS	TAL SEA
Total/NA	Analysis	2320B		1	173038	10/17/14 13:34	SPP	TAL SEA
Total/NA	Analysis	300.0		1	172865	10/15/14 15:08	JLS	TAL SEA
Total/NA	Analysis	300.0		1	172903	10/15/14 15:08	JLS	TAL SEA
Total/NA	Analysis	SM 2540D		1	173015	10/17/14 12:16	LKC	TAL SEA
Total/NA	Analysis	SM 4500 H+ B		1	172829	10/15/14 11:06	JLS	TAL SEA
Dissolved	Analysis	SM 5310B		1	173201	10/21/14 09:10	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	173083	10/18/14 22:27	JLS	TAL SEA

Client Sample ID: CC-A-01-2014013-S

Lab Sample ID: 580-45906-3

Date Collected: 10/13/14 12:15

Matrix: Solid

Date Received: 10/14/14 16:00

Percent Solids: 57.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			173001	10/17/14 11:05	ALL	TAL SEA

Client Sample ID: CC-A-01-2014013-S

Lab Sample ID: 580-45906-3

Date Collected: 10/13/14 12:15
Matrix: Solid
Date Received: 10/14/14 16:00
Percent Solids: 57.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		10	173503	10/22/14 19:08	AHP	TAL SEA
Total/NA	Prep	3550B	DL		173001	10/17/14 11:05	ALL	TAL SEA
Total/NA	Analysis	8270D	DL	100	174767	11/04/14 19:30	AHP	TAL SEA
Total/NA	Prep	3550B			173768	10/27/14 06:00	ALL	TAL SEA
Total/NA	Analysis	8082		1	174076	10/28/14 16:13	ALC	TAL SEA
Total/NA	Prep	3546			173189	10/20/14 10:52	TAA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	173296	10/21/14 18:52	EKK	TAL SEA
Total/NA	Prep	3050B			172827	10/15/14 17:54	PAB	TAL SEA
Total/NA	Analysis	6020		10	173140	10/16/14 17:38	FCW	TAL SEA
Total/NA	Prep	7471A			172822	10/15/14 17:07	PAB	TAL SEA
Total/NA	Analysis	7471A		1	172879	10/16/14 10:26	FCW	TAL SEA
Total/NA	Analysis	2540B		1	173274	10/20/14 18:10	CTC	TAL SEA

Client Sample ID: CC-CB-04-2014013-S

Lab Sample ID: 580-45906-4

Date Collected: 10/13/14 13:20
Matrix: Solid
Date Received: 10/14/14 16:00
Percent Solids: 59.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	RA		174012	10/14/14 16:40	CTC	TAL SEA
Total/NA	Analysis	8260B	RA	1	173956	10/27/14 18:57	JMB	TAL SEA
Total/NA	Prep	3550B			172868	10/16/14 09:52	ALL	TAL SEA
Total/NA	Analysis	8270D		50	174626	11/03/14 21:19	AHP	TAL SEA
Total/NA	Prep	3550B	RE		173678	10/24/14 12:00	ALL	TAL SEA
Total/NA	Analysis	8270D	RE	50	174626	11/03/14 22:10	AHP	TAL SEA
Total/NA	Prep	5035			173048	10/17/14 15:22	IWH	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	173053	10/17/14 19:52	IWH	TAL SEA
Total/NA	Prep	3550B			173768	10/27/14 06:00	ALL	TAL SEA
Total/NA	Analysis	8082		1	174076	10/28/14 16:28	ALC	TAL SEA
Total/NA	Prep	3546			173189	10/20/14 10:52	TAA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	173296	10/21/14 19:10	EKK	TAL SEA
Total/NA	Prep	3050B			172827	10/15/14 17:54	PAB	TAL SEA
Total/NA	Analysis	6020		10	173140	10/16/14 17:35	FCW	TAL SEA
Total/NA	Prep	7471A			172822	10/15/14 17:07	PAB	TAL SEA
Total/NA	Analysis	7471A		1	172879	10/16/14 10:29	FCW	TAL SEA
Total/NA	Analysis	2540B		1	173274	10/20/14 18:10	CTC	TAL SEA
Total/NA	Analysis	9060_PSEP		1	173358	10/21/14 12:24	CRH	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	172900	10/16/14 12:09	LKC	TAL SEA

Lab Chronicle

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Client Sample ID: CC-CB-22-2014013-S
Date Collected: 10/13/14 14:10
Date Received: 10/14/14 16:00

Lab Sample ID: 580-45906-5
Matrix: Solid
Percent Solids: 57.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			172868	10/16/14 09:52	ALL	TAL SEA
Total/NA	Analysis	8270D		50	174626	11/03/14 21:44	AHP	TAL SEA
Total/NA	Prep	3550B	RE		173678	10/24/14 12:00	ALL	TAL SEA
Total/NA	Analysis	8270D	RE	50	174626	11/03/14 23:27	AHP	TAL SEA
Total/NA	Prep	3550B			173768	10/27/14 06:00	ALL	TAL SEA
Total/NA	Analysis	8082		1	174076	10/28/14 17:14	ALC	TAL SEA
Total/NA	Prep	3546			173189	10/20/14 10:52	TAA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	173296	10/21/14 19:47	EKK	TAL SEA
Total/NA	Prep	3050B			172827	10/15/14 17:54	PAB	TAL SEA
Total/NA	Analysis	6020		10	173140	10/16/14 17:09	FCW	TAL SEA
Total/NA	Prep	7471A			172822	10/15/14 17:07	PAB	TAL SEA
Total/NA	Analysis	7471A		1	172879	10/16/14 10:31	FCW	TAL SEA
Total/NA	Analysis	2540B		1	173248	10/20/14 15:14	CLH	TAL SEA
Total/NA	Analysis	9060_PSEP		1	173358	10/21/14 12:24	CRH	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	172900	10/16/14 12:09	LKC	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-15
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-15
US Fish & Wildlife	Federal		LE192332-0	02-28-16
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-15

Sample Summary

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-45906-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-45906-1	CC-A-01-2014013-W	Water	10/13/14 11:45	10/14/14 16:00
580-45906-2	CC-FD-02-2014013-W	Water	10/13/14 11:45	10/14/14 16:00
580-45906-3	CC-A-01-2014013-S	Solid	10/13/14 12:15	10/14/14 16:00
580-45906-4	CC-CB-04-2014013-S	Solid	10/13/14 13:20	10/14/14 16:00
580-45906-5	CC-CB-22-2014013-S	Solid	10/13/14 14:10	10/14/14 16:00

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424
phone 253.922.2310 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☑ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Christine Nancarrow	Site Contact: Melissa Ivancevich	Date: 10/13/14	COC No:
Leidos	Tel/Fax: 206.300.2144	Lab Contact: Kris Allen	Carrier: Courier	1 of 2 COCs
18912 N Creek Pkwy, Ste. 101	Analysis Turnaround Time			Sampler:
Bothell, WA 98011	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
425.398.2101 Phone	TAT if different from Below 3 Weeks			Walk-in Client:
425.485.5566 FAX	☐ 2 weeks			Lab Sampling:
Project Name: NPDES Sampling Support	☐ 1 week			Job / SDG No.:
Site: Lower Duwamish Waterway	☐ 2 days			
P O # P010163427	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	SVOCs (Method 8270D)	Metals (Method 200.8/7470A)	pH (Method SM4500H)	Spec Cond (Method 120.1)	Alk/Bicarb/Carb (Method SM2320)	Anions (Method 300.0/353.2)	TOC (Method SM5310B)	DOC (Method SM5310B)	TSS (Method 2540D)	Sample Specific Notes:
CC-A-01-20141013-W	10/13/14	1145	G	W	8	N		2	1		2			1	1	1	
CC-FD-02-20141013-W	10/13/14	1145	G	W	8	N		2	1		2			1	1	1	

10/13/14

580-45906 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other MeOH — 4 — 3

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 242408 | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by: Melissa Ivancevich	Leidos	10/14/14 08:30		TA-SEA	10/14/14 1600
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Chain of Custody Record

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424
phone 253.922.2310 fax

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☑ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Christine Nancarrow	Site Contact: Melissa Ivancevich	Date:	COC No:
Leidos	Tel/Fax: 206.300.2144	Lab Contact: Kris Allen	Carrier: Courier	2 of 2 COCs
18912 N Creek Pkwy, Ste. 101	**Analysis Turnaround Time**			Sampler:
Bothell, WA 98011	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
425.398.2101 Phone	TAT if different from Below 3 Weeks			Walk-in Client:
425.485.5566 FAX	☐ 2 weeks			Lab Sampling:
Project Name: NPDES Sampling Support	☐ 1 week			Job / SDG No.:
Site: Lower Duwamish Waterway	☐ 2 days			
P O # P010163427	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCB Aroclors (Method 8082)	SVOC (Method 8270D/8270D-SIM)	TPH-Diesel (NWTPH-Dx)	Metals (Method 6020/7471A)	Total Solids (Method SM2540B)	TPH-Gasoline (NWTPH-Gx)	VOCs (EPA 8260B)	TOC (Plumb1981/9060)	Particle Size (PSEP_Plumb1981)	Sample Specific Notes:
~~CC-A-01-20141013-S~~ CW 10/13/14				Sed	CW 10/13/14												
CC-A-01-20141013-S	10/13/14	1215	G	Sed	1	/		1									
CC-CB-04-20141013-S	10/13/14	1320	G	Sed	~~6~~			1					1	2	1	1	
CC-CB-22-20141013-S	10/13/14	1410	G	Sed	3			1							1	1	
													CW 10/13/14				
													6	6			

1

~~Cooler/TB~~ Dig/IR cor 4.4°C unc 3.0°C
Cooler Dsc Lg Blue/white@Lab 1600
~~Wet~~/Packs Packing Bubble
W/CS

10/13/14

Cooler/~~TB~~ Dig/IR cor 6.0°C unc 6.3°C
Cooler Dsc Lg Blue/white@Lab 1600
~~Wet~~/Packs Packing Bubble
W/CS

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other MeOH

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: For Sample CC-A-01-20141013-S, Please prioritize ① PCB Aroclors ② Metals ③ SVOCs ④ Total Solids ⑤ TPH-diesel if volume requirements are an issue.

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 242469	Cooler Temp. (°C): Obs'd:_____ Corr'd:_____	Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Melissa Ivancevich	Leidos	10/14/14 0830		THSEA	10/14/14 1600
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 580-45906-1

Login Number: 45906

List Source: TestAmerica Seattle

List Number: 1

Creator: McDaniel, Ronald T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Not present.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

October 30, 2014

Vista Project I.D.: 1400762

Ms. Christine Nancarrow
Leidos
18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Dear Ms. Nancarrow,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on October 14, 2014. This sample set was analyzed on a standard turn-around time, under your Project Name '1400647'. The work was authorized under your Purchase Order No. P010163569.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier
Laboratory Director

Vista Work Order No. 1400762
Case Narrative

Sample Condition on Receipt:

Two aqueous samples and three sediment samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

EPA Method 1613

The samples were extracted and analyzed for tetra-through-octa chlorinated dioxins and furans by EPA Method 1613 using a ZB-5MS GC column.

Holding Times

These samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with each preparation batch. No analytes were detected in the Method Blanks. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

EPA Method 1668C

The samples were extracted and analyzed for 209 PCB congeners by EPA Method 1668C using a ZB-1 GC column.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with each preparation batch. PCB-11 was detected at 23.5 pg/L in the aqueous method blank, which is above the sample quantitation limit. No other analytes were detected above the sample quantitation limit in the Method Blanks. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

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Initial Calibration..... 886

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1400762-01	CC-A-01-20141013-W	13-Oct-14 11:45	14-Oct-14 08:45	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
1400762-02	CC-FD-02-20141013-W	13-Oct-14 11:45	14-Oct-14 08:45	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
1400762-03	CC-A-01-20141013-S	13-Oct-14 12:15	14-Oct-14 08:45	Amber Glass, 250mL
1400762-04	CC-CB-04-20141013-S	13-Oct-14 13:20	14-Oct-14 08:45	Amber Glass, 250mL
1400762-05	CC-CB-22-20141013-S	13-Oct-14 14:10	14-Oct-14 08:45	Amber Glass, 250mL

Vista Project: 1400762

Client Project: 1400647

ANALYTICAL RESULTS

Sample ID: Method Blank

EPA Method 1613B

Matrix: Aqueous
Sample Size: 1.00 L

QC Batch: B4J0106
Date Extracted: 20-Oct-2014 8:21

Lab Sample: B4J0106-BLK1
Date Analyzed : 22-Oct-14 17:56 Column: ZB-5MS Analyst: MAS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
2,3,7,8-TCDD	ND	5.00	0.967		0.943	
1,2,3,7,8-PeCDD	ND	25.0	0.894		4.51	
1,2,3,4,7,8-HxCDD	ND	25.0	1.02		2.21	
1,2,3,6,7,8-HxCDD	ND	25.0	1.10		1.93	
1,2,3,7,8,9-HxCDD	ND	25.0	1.13		2.02	
1,2,3,4,6,7,8-HpCDD	ND	25.0	1.94		2.98	
OCDD	ND	50.0	1.62		3.57	
2,3,7,8-TCDF	ND	5.00	0.513		0.984	
1,2,3,7,8-PeCDF	ND	25.0	1.35		2.50	
2,3,4,7,8-PeCDF	ND	25.0	0.743		1.73	
1,2,3,4,7,8-HxCDF	ND	25.0	1.52		1.36	
1,2,3,6,7,8-HxCDF	ND	25.0	0.819		1.56	
2,3,4,6,7,8-HxCDF	ND	25.0	0.979		2.05	
1,2,3,7,8,9-HxCDF	ND	25.0	1.39		1.34	
1,2,3,4,6,7,8-HpCDF	ND	25.0	0.655		1.46	
1,2,3,4,7,8,9-HpCDF	ND	25.0	0.572		1.75	
OCDF	ND	50.0	1.74		2.98	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-2,3,7,8-TCDD	82.7	25 - 164	
	13C-1,2,3,7,8-PeCDD	82.6	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	84.6	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	84.8	28 - 130	
	13C-1,2,3,7,8,9-HxCDD	83.3	32 - 141	
	13C-1,2,3,4,6,7,8-HpCDD	84.6	23 - 140	
	13C-OCDD	67.0	17 - 157	
	13C-2,3,7,8-TCDF	76.3	24 - 169	
	13C-1,2,3,7,8-PeCDF	81.2	24 - 185	
	13C-2,3,4,7,8-PeCDF	80.1	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	90.7	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	83.5	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	83.3	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	84.8	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	76.4	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	81.1	26 - 138	
	13C-OCDF	69.4	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	86.4	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin	0.00

TOTALS

Total TCDD	ND	0.967
Total PeCDD	ND	1.68
Total HxCDD	ND	1.95
Total HpCDD	ND	1.94
Total TCDF	ND	0.513
Total PeCDF	ND	1.40
Total HxCDF	ND	1.99
Total HpCDF	ND	0.885

DL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
RL - Reporting limit
LCL-UCL- Lower control limit - upper control limit
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: OPR **EPA Method 1613B**

Matrix:	Aqueous	QC Batch:	B4J0106	Lab Sample:	B4J0106-BS1
Sample Size:	1.00 L	Date Extracted:	20-Oct-2014 8:21	Date Analyzed:	22-Oct-14 16:19 Column: ZB-5MS Analyst: MAS

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits		Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	177	200	88.6	67 - 158	IS	13C-2,3,7,8-TCDD	72.2	20 - 175
1,2,3,7,8-PeCDD	962	1000	96.2	70 - 142		13C-1,2,3,7,8-PeCDD	71.6	21 - 227
1,2,3,4,7,8-HxCDD	918	1000	91.8	70 - 164		13C-1,2,3,4,7,8-HxCDD	75.9	21 - 193
1,2,3,6,7,8-HxCDD	951	1000	95.1	76 - 134		13C-1,2,3,6,7,8-HxCDD	78.0	25 - 163
1,2,3,7,8,9-HxCDD	962	1000	96.2	64 - 162		13C-1,2,3,7,8,9-HxCDD	74.4	21 - 193
1,2,3,4,6,7,8-HpCDD	958	1000	95.8	70 - 140		13C-1,2,3,4,6,7,8-HpCDD	76.9	26 - 166
OCDD	1880	2000	94.1	78 - 144		13C-OCDD	64.8	13 - 199
2,3,7,8-TCDF	176	200	88.1	75 - 158		13C-2,3,7,8-TCDF	71.2	22 - 152
1,2,3,7,8-PeCDF	931	1000	93.1	80 - 134		13C-1,2,3,7,8-PeCDF	70.6	21 - 192
2,3,4,7,8-PeCDF	942	1000	94.2	68 - 160		13C-2,3,4,7,8-PeCDF	68.6	13 - 328
1,2,3,4,7,8-HxCDF	930	1000	93.0	72 - 134		13C-1,2,3,4,7,8-HxCDF	82.1	19 - 202
1,2,3,6,7,8-HxCDF	932	1000	93.2	84 - 130		13C-1,2,3,6,7,8-HxCDF	74.7	21 - 159
2,3,4,6,7,8-HxCDF	927	1000	92.7	70 - 156		13C-2,3,4,6,7,8-HxCDF	73.9	22 - 176
1,2,3,7,8,9-HxCDF	938	1000	93.8	78 - 130		13C-1,2,3,7,8,9-HxCDF	77.0	17 - 205
1,2,3,4,6,7,8-HpCDF	927	1000	92.7	82 - 122		13C-1,2,3,4,6,7,8-HpCDF	72.2	21 - 158
1,2,3,4,7,8,9-HpCDF	934	1000	93.4	78 - 138		13C-1,2,3,4,7,8,9-HpCDF	72.0	20 - 186
OCDF	1910	2000	95.5	63 - 170		13C-OCDF	68.2	13 - 199
					CRS	37Cl-2,3,7,8-TCDD	83.0	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: CC-A-01-20141013-W

EPA Method 1613B

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 11:45

Sample Data
Matrix: Aqueous
Sample Size: 1.01 L

Laboratory Data
Lab Sample: 1400762-01 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0106 Date Extracted: 20-Oct-2014 8:21
Date Analyzed : 22-Oct-14 18:44 Column: ZB-5MS Analyst: MAS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
2,3,7,8-TCDD	ND	4.96	1.51		0.943	
1,2,3,7,8-PeCDD	ND	24.8	0.930		4.51	
1,2,3,4,7,8-HxCDD	ND	24.8	2.40		2.21	
1,2,3,6,7,8-HxCDD	ND	24.8	2.56		1.93	
1,2,3,7,8,9-HxCDD	ND	24.8	2.67		2.02	
1,2,3,4,6,7,8-HpCDD	5.83	24.8			2.98	J
OCDD	33.7	49.6			3.57	J
2,3,7,8-TCDF	ND	4.96	0.998		0.984	
1,2,3,7,8-PeCDF	ND	24.8	1.38		2.50	
2,3,4,7,8-PeCDF	ND	24.8	1.06		1.73	
1,2,3,4,7,8-HxCDF	ND	24.8	0.602		1.36	
1,2,3,6,7,8-HxCDF	ND	24.8	0.644		1.56	
2,3,4,6,7,8-HxCDF	ND	24.8	0.502		2.05	
1,2,3,7,8,9-HxCDF	ND	24.8	0.728		1.34	
1,2,3,4,6,7,8-HpCDF	ND	24.8		1.37	1.46	
1,2,3,4,7,8,9-HpCDF	ND	24.8	1.17		1.75	
OCDF	ND	49.6	1.86		2.98	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-2,3,7,8-TCDD	80.7	25 - 164	
	13C-1,2,3,7,8-PeCDD	79.9	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	79.3	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	77.6	28 - 130	
	13C-1,2,3,7,8,9-HxCDD	79.3	32 - 141	
	13C-1,2,3,4,6,7,8-HpCDD	76.9	23 - 140	
	13C-OCDD	71.8	17 - 157	
	13C-2,3,7,8-TCDF	80.3	24 - 169	
	13C-1,2,3,7,8-PeCDF	92.0	24 - 185	
	13C-2,3,4,7,8-PeCDF	80.0	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	84.7	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	79.6	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	77.3	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	79.2	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	74.5	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	75.7	26 - 138	
	13C-OCDF	72.7	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	87.1	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin	0.0684

TOTALS

Total TCDD	ND	1.51		
Total PeCDD	ND	0.930		
Total HxCDD	ND	3.64		
Total HpCDD	14.0			
Total TCDF	ND	1.33		
Total PeCDF	ND	0	0.532	
Total HxCDF	ND		0.886	
Total HpCDF	1.20		2.57	

DL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
RL - Reporting limit
LCL-UCL- Lower control limit - upper control limit
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: CC-FD-02-20141013-W

EPA Method 1613B

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 11:45

Sample Data
Matrix: Aqueous
Sample Size: 1.00 L

Laboratory Data
Lab Sample: 1400762-02 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0106 Date Extracted: 20-Oct-2014 8:21
Date Analyzed : 22-Oct-14 19:33 Column: ZB-5MS Analyst: MAS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
2,3,7,8-TCDD	ND	4.99	1.30		0.943	
1,2,3,7,8-PeCDD	ND	24.9	0.770		4.51	
1,2,3,4,7,8-HxCDD	ND	24.9	2.24		2.21	
1,2,3,6,7,8-HxCDD	ND	24.9	2.31		1.93	
1,2,3,7,8,9-HxCDD	ND	24.9	2.44		2.02	
1,2,3,4,6,7,8-HpCDD	5.82	24.9			2.98	J
OCDD	33.9	49.9			3.57	J
2,3,7,8-TCDF	ND	4.99	1.73		0.984	
1,2,3,7,8-PeCDF	ND	24.9	1.44		2.50	
2,3,4,7,8-PeCDF	ND	24.9	1.69		1.73	
1,2,3,4,7,8-HxCDF	ND	24.9	0.807		1.36	
1,2,3,6,7,8-HxCDF	ND	24.9	0.912		1.56	
2,3,4,6,7,8-HxCDF	ND	24.9	0.591		2.05	
1,2,3,7,8,9-HxCDF	ND	24.9	0.817		1.34	
1,2,3,4,6,7,8-HpCDF	ND	24.9	2.37		1.46	
1,2,3,4,7,8,9-HpCDF	ND	24.9	0.790		1.75	
OCDF	ND	49.9	2.50		2.98	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-2,3,7,8-TCDD	78.4	25 - 164	
	13C-1,2,3,7,8-PeCDD	78.7	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	72.9	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	72.6	28 - 130	
	13C-1,2,3,7,8,9-HxCDD	74.1	32 - 141	
	13C-1,2,3,4,6,7,8-HpCDD	75.6	23 - 140	
	13C-OCDD	65.4	17 - 157	
	13C-2,3,7,8-TCDF	77.1	24 - 169	
	13C-1,2,3,7,8-PeCDF	87.7	24 - 185	
	13C-2,3,4,7,8-PeCDF	76.0	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	78.1	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	73.3	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	70.8	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	72.7	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	68.1	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	72.6	26 - 138	
	13C-OCDF	67.1	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	88.5	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin	0.0684

TOTALS

Total TCDD	ND	1.30		
Total PeCDD	ND	1.18		
Total HxCDD	ND	3.70		
Total HpCDD	5.82		11.5	
Total TCDF	ND	1.73		
Total PeCDF	ND		0.462	
Total HxCDF	ND		0.960	
Total HpCDF	ND	2.70		

DL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
RL - Reporting limit
LCL-UCL- Lower control limit - upper control limit
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: Method Blank

EPA Method 1613B

Matrix: Solid
Sample Size: 10.0 g

QC Batch: B4J0118
Date Extracted: 22-Oct-2014 8:44

Lab Sample: B4J0118-BLK1
Date Analyzed : 23-Oct-14 21:43 Column: ZB-5MS Analyst: MAS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
2,3,7,8-TCDD	ND	0.500	0.108		0.0778	
1,2,3,7,8-PeCDD	ND	2.50	0.231		0.230	
1,2,3,4,7,8-HxCDD	ND	2.50	0.117		0.231	
1,2,3,6,7,8-HxCDD	ND	2.50	0.124		0.126	
1,2,3,7,8,9-HxCDD	ND	2.50	0.125		0.173	
1,2,3,4,6,7,8-HpCDD	ND	2.50	0.125		0.263	
OCDD	ND	5.00	0.271		0.167	
2,3,7,8-TCDF	ND	0.500	0.0790		0.0289	
1,2,3,7,8-PeCDF	ND	2.50	0.0593		0.254	
2,3,4,7,8-PeCDF	ND	2.50	0.0631		0.211	
1,2,3,4,7,8-HxCDF	ND	2.50	0.0451		0.154	
1,2,3,6,7,8-HxCDF	ND	2.50	0.0523		0.195	
2,3,4,6,7,8-HxCDF	ND	2.50	0.0340		0.0805	
1,2,3,7,8,9-HxCDF	ND	2.50	0.0495		0.195	
1,2,3,4,6,7,8-HpCDF	ND	2.50	0.167		0.230	
1,2,3,4,7,8,9-HpCDF	ND	2.50	0.145		0.211	
OCDF	ND	5.00	0.102		0.470	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-2,3,7,8-TCDD	88.6	25 - 164	
	13C-1,2,3,7,8-PeCDD	86.3	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	79.8	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	79.3	28 - 130	
	13C-1,2,3,7,8,9-HxCDD	78.8	32 - 141	
	13C-1,2,3,4,6,7,8-HpCDD	81.6	23 - 140	
	13C-OCDD	69.7	17 - 157	
	13C-2,3,7,8-TCDF	83.4	24 - 169	
	13C-1,2,3,7,8-PeCDF	84.2	24 - 185	
	13C-2,3,4,7,8-PeCDF	82.5	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	86.7	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	84.5	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	82.5	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	83.7	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	75.0	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	74.9	26 - 138	
	13C-OCDF	72.3	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	86.2	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin	0.00

TOTALS

Total TCDD	ND	0.108
Total PeCDD	ND	0.231
Total HxCDD	ND	0.197
Total HpCDD	ND	0.125
Total TCDF	ND	0.0790
Total PeCDF	ND	0.0998
Total HxCDF	ND	0.0579
Total HpCDF	ND	0.243

DL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
RL - Reporting limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: OPR **EPA Method 1613B**

Matrix:	Solid	QC Batch:	B4J0118	Lab Sample:	B4J0118-BS1
Sample Size:	10.0 g	Date Extracted:	22-Oct-2014 8:44	Date Analyzed:	23-Oct-14 19:17 Column: ZB-5MS Analyst: MAS

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits
2,3,7,8-TCDD	18.2	20.0	91.1	67 - 158
1,2,3,7,8-PeCDD	97.3	100	97.3	70 - 142
1,2,3,4,7,8-HxCDD	104	100	104	70 - 164
1,2,3,6,7,8-HxCDD	101	100	101	76 - 134
1,2,3,7,8,9-HxCDD	101	100	101	64 - 162
1,2,3,4,6,7,8-HpCDD	96.9	100	96.9	70 - 140
OCDD	199	200	99.5	78 - 144
2,3,7,8-TCDF	18.7	20.0	93.3	75 - 158
1,2,3,7,8-PeCDF	97.6	100	97.6	80 - 134
2,3,4,7,8-PeCDF	98.4	100	98.4	68 - 160
1,2,3,4,7,8-HxCDF	97.4	100	97.4	72 - 134
1,2,3,6,7,8-HxCDF	96.0	100	96.0	84 - 130
2,3,4,6,7,8-HxCDF	97.1	100	97.1	70 - 156
1,2,3,7,8,9-HxCDF	96.7	100	96.7	78 - 130
1,2,3,4,6,7,8-HpCDF	102	100	102	82 - 122
1,2,3,4,7,8,9-HpCDF	101	100	101	78 - 138
OCDF	200	200	99.9	63 - 170

	Labeled Standard	%R	LCL-UCL
IS	13C-2,3,7,8-TCDD	97.0	20 - 175
	13C-1,2,3,7,8-PeCDD	123	21 - 227
	13C-1,2,3,4,7,8-HxCDD	78.0	21 - 193
	13C-1,2,3,6,7,8-HxCDD	82.0	25 - 163
	13C-1,2,3,7,8,9-HxCDD	78.8	21 - 193
	13C-1,2,3,4,6,7,8-HpCDD	73.3	26 - 166
	13C-OCDD	59.0	13 - 199
	13C-2,3,7,8-TCDF	82.1	22 - 152
	13C-1,2,3,7,8-PeCDF	99.0	21 - 192
	13C-2,3,4,7,8-PeCDF	101	13 - 328
	13C-1,2,3,4,7,8-HxCDF	93.2	19 - 202
	13C-1,2,3,6,7,8-HxCDF	88.3	21 - 159
	13C-2,3,4,6,7,8-HxCDF	81.7	22 - 176
	13C-1,2,3,7,8,9-HxCDF	81.3	17 - 205
	13C-1,2,3,4,6,7,8-HpCDF	71.5	21 - 158
	13C-1,2,3,4,7,8,9-HpCDF	66.9	20 - 186
	13C-OCDF	61.4	13 - 199
CRS	37Cl-2,3,7,8-TCDD	92.5	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: CC-A-01-20141013-S

EPA Method 1613B

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 12:15

Sample Data
Matrix: Sediment
Sample Size: 17.0 g
% Solids: 58.8

Laboratory Data
Lab Sample: 1400762-03 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0118 Date Extracted: 22-Oct-2014 8:44
Date Analyzed : 28-Oct-14 00:13 Column: ZB-5MS Analyst: MAS
28-Oct-14 17:44 Column: DB-225 Analyst: MAS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
2,3,7,8-TCDD	ND	0.499		0.468	0.0778	
1,2,3,7,8-PeCDD	ND	2.50		2.22	0.230	
1,2,3,4,7,8-HxCDD	3.94	2.50			0.231	
1,2,3,6,7,8-HxCDD	8.89	2.50			0.126	
1,2,3,7,8,9-HxCDD	7.79	2.50			0.173	
1,2,3,4,6,7,8-HpCDD	175	2.50			0.263	
OCDD	1490	4.99			0.167	
2,3,7,8-TCDF	6.88	0.499			0.0289	
1,2,3,7,8-PeCDF	2.43	2.50			0.254	J
2,3,4,7,8-PeCDF	4.17	2.50			0.211	
1,2,3,4,7,8-HxCDF	4.66	2.50			0.154	
1,2,3,6,7,8-HxCDF	3.58	2.50			0.195	
2,3,4,6,7,8-HxCDF	4.29	2.50			0.0805	
1,2,3,7,8,9-HxCDF	0.502	2.50			0.195	J
1,2,3,4,6,7,8-HpCDF	36.4	2.50			0.230	
1,2,3,4,7,8,9-HpCDF	3.27	2.50			0.211	
OCDF	69.1	4.99			0.470	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-2,3,7,8-TCDD	83.0	25 - 164	
	13C-1,2,3,7,8-PeCDD	76.6	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	73.7	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	86.4	28 - 130	
	13C-1,2,3,7,8,9-HxCDD	77.9	32 - 141	
	13C-1,2,3,4,6,7,8-HpCDD	82.0	23 - 140	
	13C-OCDD	68.3	17 - 157	
	13C-2,3,7,8-TCDF	85.4	24 - 169	
	13C-1,2,3,7,8-PeCDF	84.8	24 - 185	
	13C-2,3,4,7,8-PeCDF	78.4	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	71.4	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	74.7	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	72.7	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	77.4	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	75.4	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	76.0	26 - 138	
	13C-OCDF	64.1	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	82.8	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin	7.99

TOTALS	
Total TCDD	12.0
Total PeCDD	24.0
Total HxCDD	98.7
Total HpCDD	353
Total TCDF	77.9
Total PeCDF	59.8
Total HxCDF	59.4
Total HpCDF	80.1

DL - Sample specifc estimated detection limit	MDL - Method detection limit	LCL-UCL- Lower control limit - upper control limit
EMPC - Estimated maximum possible concentration	RL - Reporting limit	The results are reported in dry weight. The sample size is reported in wet weight.
		Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: CC-CB-04-20141013-S

EPA Method 1613B

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 13:20

Sample Data
Matrix: Sediment
Sample Size: 17.4 g
% Solids: 57.6

Laboratory Data
Lab Sample: 1400762-04 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0118 Date Extracted: 22-Oct-2014 8:44
Date Analyzed : 28-Oct-14 01:01 Column: ZB-5MS Analyst: MAS
28-Oct-14 18:16 Column: DB-225 Analyst: MAS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
2,3,7,8-TCDD	ND	0.499		0.542	0.0778	
1,2,3,7,8-PeCDD	3.30	2.50			0.230	
1,2,3,4,7,8-HxCDD	4.09	2.50			0.231	
1,2,3,6,7,8-HxCDD	11.2	2.50			0.126	
1,2,3,7,8,9-HxCDD	10.8	2.50			0.173	
1,2,3,4,6,7,8-HpCDD	212	2.50			0.263	
OCDD	2150	4.99			0.167	
2,3,7,8-TCDF	7.35	0.499			0.0289	
1,2,3,7,8-PeCDF	2.05	2.50			0.254	J
2,3,4,7,8-PeCDF	3.60	2.50			0.211	
1,2,3,4,7,8-HxCDF	3.79	2.50			0.154	
1,2,3,6,7,8-HxCDF	3.55	2.50			0.195	
2,3,4,6,7,8-HxCDF	4.00	2.50			0.0805	
1,2,3,7,8,9-HxCDF	0.494	2.50			0.195	J
1,2,3,4,6,7,8-HpCDF	36.3	2.50			0.230	
1,2,3,4,7,8,9-HpCDF	2.57	2.50			0.211	
OCDF	57.4	4.99			0.470	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-2,3,7,8-TCDD	80.5	25 - 164	
	13C-1,2,3,7,8-PeCDD	78.8	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	72.3	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	78.5	28 - 130	
	13C-1,2,3,7,8,9-HxCDD	74.1	32 - 141	
	13C-1,2,3,4,6,7,8-HpCDD	76.5	23 - 140	
	13C-OCDD	64.8	17 - 157	
	13C-2,3,7,8-TCDF	83.8	24 - 169	
	13C-1,2,3,7,8-PeCDF	84.1	24 - 185	
	13C-2,3,4,7,8-PeCDF	80.2	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	72.0	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	76.4	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	68.6	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	73.0	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	69.4	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	65.4	26 - 138	
	13C-OCDF	59.9	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	79.6	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin	12.1

TOTALS

Total TCDD	16.8			19.2		
Total PeCDD	34.8					
Total HxCDD	131					
Total HpCDD	446					
Total TCDF	80.3			80.8		
Total PeCDF	63.4			63.8		
Total HxCDF	63.5					
Total HpCDF	78.7					

DL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
RL - Reporting limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: CC-CB-22-20141013-S

EPA Method 1613B

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 14:10

Sample Data
Matrix: Sediment
Sample Size: 18.5 g
% Solids: 54.0

Laboratory Data
Lab Sample: 1400762-05 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0118 Date Extracted: 22-Oct-2014 8:44
Date Analyzed : 28-Oct-14 01:50 Column: ZB-5MS Analyst: MAS
28-Oct-14 18:48 Column: DB-225 Analyst: MAS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
2,3,7,8-TCDD	1.05	0.499			0.0778	
1,2,3,7,8-PeCDD	3.96	2.50			0.230	
1,2,3,4,7,8-HxCDD	5.90	2.50			0.231	
1,2,3,6,7,8-HxCDD	12.8	2.50			0.126	
1,2,3,7,8,9-HxCDD	11.3	2.50			0.173	
1,2,3,4,6,7,8-HpCDD	289	2.50			0.263	
OCDD	2750	4.99			0.167	
2,3,7,8-TCDF	18.3	0.499			0.0289	
1,2,3,7,8-PeCDF	4.40	2.50			0.254	
2,3,4,7,8-PeCDF	8.03	2.50			0.211	
1,2,3,4,7,8-HxCDF	8.03	2.50			0.154	
1,2,3,6,7,8-HxCDF	5.78	2.50			0.195	
2,3,4,6,7,8-HxCDF	6.78	2.50			0.0805	
1,2,3,7,8,9-HxCDF	1.03	2.50			0.195	J
1,2,3,4,6,7,8-HpCDF	59.1	2.50			0.230	
1,2,3,4,7,8,9-HpCDF	5.33	2.50			0.211	
OCDF	130	4.99			0.470	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-2,3,7,8-TCDD	88.5	25 - 164	
	13C-1,2,3,7,8-PeCDD	89.1	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	77.8	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	110	28 - 130	
	13C-1,2,3,7,8,9-HxCDD	82.0	32 - 141	
	13C-1,2,3,4,6,7,8-HpCDD	77.8	23 - 140	
	13C-OCDD	65.7	17 - 157	
	13C-2,3,7,8-TCDF	91.7	24 - 169	
	13C-1,2,3,7,8-PeCDF	94.3	24 - 185	
	13C-2,3,4,7,8-PeCDF	88.1	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	80.4	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	81.0	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	76.9	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	89.6	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	77.7	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	69.2	26 - 138	
	13C-OCDF	60.0	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	92.0	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin	18.9

TOTALS				
Total TCDD	30.4		31.7	
Total PeCDD	48.3			
Total HxCDD	148			
Total HpCDD	635			
Total TCDF	155		167	
Total PeCDF	115		116	
Total HxCDF	100			
Total HpCDF	144			

DL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
RL - Reporting limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: Method Blank — EPA Method 1668C

Matrix: Aqueous
Sample Size: 1.00 L
QC Batch: B4J0110
Date Extracted: 20-Oct-2014 9:32
Lab Sample: B4J0110-BLK1
Date Analyzed: 22-Oct-14 01:30 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	ND	5.00	2.00		1.21	
PCB-2	ND	5.00	2.12		1.75	
PCB-3	ND	5.00	2.05		1.49	
PCB-4/10	ND	20.0	7.79		5.64	
PCB-5/8	ND	20.0	6.22		3.59	
PCB-6	ND	10.0	6.09		3.10	
PCB-7/9	ND	20.0	6.05		6.22	
PCB-11	23.5	10.0			3.86	
PCB-12/13	ND	20.0	5.88		5.01	
PCB-14	ND	10.0	5.24		3.98	
PCB-15	ND	10.0	5.35		2.53	
PCB-16/32	1.81	10.0			2.87	J
PCB-17	ND	5.00	0.858		1.37	
PCB-18	1.89	5.00			2.57	J
PCB-19	ND	5.00	0.954		2.38	
PCB-20/21/33	ND	15.0	0.612		10.3	
PCB-22	ND	5.00	0.607		3.17	
PCB-23	ND	5.00	0.612		1.35	
PCB-24/27	ND	10.0	0.656		3.16	
PCB-25	ND	5.00	0.598		3.34	
PCB-26	ND	5.00	0.621		2.19	
PCB-28	1.08	5.00			2.90	J
PCB-29	ND	5.00	0.604		1.60	
PCB-30	ND	5.00	0.675		2.09	
PCB-31	1.10	5.00			4.29	J
PCB-34	ND	5.00	0.636		2.34	
PCB-35	ND	5.00	0.607		1.65	
PCB-36	ND	5.00	0.607		2.69	
PCB-37	ND	5.00	0.600		1.92	
PCB-38	ND	5.00	0.617		1.56	
PCB-39	ND	5.00	0.588		2.60	
PCB-40	ND	5.00	1.26		3.08	
PCB-41/64/71/72	ND	20.0	0.784		5.57	
PCB-42/59	ND	10.0	0.845		2.84	
PCB-43/49	ND	10.0	0.967		3.38	
PCB-44	ND	5.00	1.09		2.48	
PCB-45	ND	5.00	1.11		1.96	
PCB-46	ND	5.00	1.13		2.49	
PCB-47	ND	5.00	0.908		4.42	
PCB-48/75	ND	10.0	0.789		2.09	
PCB-50	ND	5.00	0.968		1.40	
PCB-51	ND	5.00	0.933		1.42	
PCB-52/69	ND	10.0	0.842		3.64	
PCB-53	ND	5.00	0.905		1.12	
PCB-54	ND	5.00	0.782		1.51	
PCB-55	ND	5.00	0.657		1.19	
PCB-56/60	ND	10.0	0.671		2.19	
PCB-57	ND	5.00	0.652		0.857	
PCB-58	ND	5.00	0.659		1.81	
PCB-61/70	ND	10.0	0.673		2.40	
PCB-62	ND	5.00	0.796		1.46	
PCB-63	ND	5.00	0.650		0.696	
PCB-65	ND	5.00	0.771		0.953	
PCB-66/76	ND	10.0	0.639		2.82	
PCB-67	ND	5.00	0.677		1.22	
PCB-68	ND	5.00	0.693		1.24	
PCB-73	ND	5.00	0.784		1.56	
PCB-74	ND	5.00	0.604		1.53	
PCB-77	ND	5.00	0.637		1.34	
PCB-78	ND	5.00	0.682		0.990	
PCB-79	ND	5.00	0.649		1.60	
PCB-80	ND	5.00	0.571		1.98	
PCB-81	ND	5.00	0.611		2.34	
PCB-82	ND	5.00	3.14		1.69	
PCB-83	ND	5.00	2.14		1.32	
PCB-84/92	ND	10.0	2.80		3.38	
PCB-85/116	ND	10.0	2.50		2.83	
PCB-86	ND	5.00	3.19		2.34	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: Method Blank — EPA Method 1668C

Matrix: Aqueous
Sample Size: 1.00 L
QC Batch: B4J0110
Date Extracted: 20-Oct-2014 9:32
Lab Sample: B4J0110-BLK1
Date Analyzed: 22-Oct-14 01:30 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-87/117/125	ND	15.0	2.09		3.79	
PCB-88/91	ND	5.00	3.04		3.25	
PCB-89	ND	5.00	2.90		1.84	
PCB-90/101	ND	10.0	2.48		1.92	
PCB-93	ND	5.00	2.74		1.47	
PCB-94	ND	5.00	2.79		1.91	
PCB-95/98/102	ND	15.0	2.55		6.58	
PCB-96	ND	5.00	2.15		2.16	
PCB-97	ND	5.00	2.61		1.24	
PCB-99	ND	5.00	2.29		1.94	
PCB-100	ND	5.00	2.34		2.03	
PCB-103	ND	5.00	2.52		2.28	
PCB-104	ND	5.00	1.87		0.931	
PCB-105	ND	5.00	1.61		2.21	
PCB-106/118	ND	10.0	1.86		2.44	
PCB-107/109	ND	10.0	1.90		1.98	
PCB-108/112	ND	10.0	2.53		1.86	
PCB-110	ND	5.00	1.94		1.94	
PCB-111/115	ND	10.0	1.86		0.768	
PCB-113	ND	5.00	2.18		1.31	
PCB-114	ND	5.00	1.64		1.81	
PCB-119	ND	5.00	1.89		0.949	
PCB-120	ND	5.00	1.83		1.01	
PCB-121	ND	5.00	1.63		1.94	
PCB-122	ND	5.00	1.80		1.84	
PCB-123	ND	5.00	1.90		1.35	
PCB-124	ND	5.00	1.75		1.79	
PCB-126	ND	5.00	1.78		2.05	
PCB-127	ND	5.00	1.74		0.808	
PCB-128/162	ND	10.0	1.02		1.68	
PCB-129	ND	5.00	1.23		1.11	
PCB-130	ND	5.00	1.31		2.21	
PCB-131	ND	5.00	1.16		1.46	
PCB-132/161	ND	10.0	0.952		2.34	
PCB-133/142	ND	10.0	1.12		2.19	
PCB-134/143	ND	10.0	1.14		2.40	
PCB-135	ND	5.00	1.51		2.90	
PCB-136	ND	5.00	1.08		2.89	
PCB-137	ND	5.00	1.04		2.08	
PCB-138/163/164	ND	15.0	0.928		2.68	
PCB-139/149	ND	10.0	1.39		7.87	
PCB-140	ND	5.00	1.49		3.52	
PCB-141	ND	5.00	1.14		1.15	
PCB-144	ND	5.00	1.43		3.22	
PCB-145	ND	5.00	1.07		1.73	
PCB-146/165	ND	10.0	0.916		1.91	
PCB-147	ND	5.00	1.42		3.62	
PCB-148	ND	5.00	1.58		1.68	
PCB-150	ND	5.00	1.10		1.14	
PCB-151	ND	5.00	1.45		3.59	
PCB-152	ND	5.00	1.07		1.82	
PCB-153	ND	5.00	0.899		1.83	
PCB-154	ND	5.00	1.33		2.78	
PCB-155	ND	5.00	1.03		1.45	
PCB-156	ND	5.00	0.873		1.74	
PCB-157	ND	5.00	0.966		1.17	
PCB-158/160	ND	10.0	0.882		1.99	
PCB-159	ND	5.00	0.889		1.20	
PCB-166	ND	5.00	0.929		0.920	
PCB-167	ND	5.00	0.930		1.65	
PCB-168	ND	5.00	0.774		0.933	
PCB-169	ND	5.00	1.07		1.12	
PCB-170	ND	5.00	1.05		1.38	
PCB-171	ND	5.00	0.951		1.61	
PCB-172	ND	5.00	1.02		1.46	
PCB-173	ND	5.00	1.08		1.49	
PCB-174	ND	5.00	0.934		1.42	
PCB-175	ND	5.00	0.842		3.15	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: Method Blank — EPA Method 1668C

Matrix:	Aqueous	QC Batch:	B4J0110	Lab Sample:	B4J0110-BLK1
Sample Size:	1.00 L	Date Extracted:	20-Oct-2014 9:32	Date Analyzed:	22-Oct-14 01:30 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-176	ND	5.00	0.599		2.17	
PCB-177	ND	5.00	1.01		1.34	
PCB-178	ND	5.00	0.871		2.25	
PCB-179	ND	5.00	0.626		1.57	
PCB-180	ND	5.00	0.874		0.610	
PCB-181	ND	5.00	0.918		1.01	
PCB-182/187	ND	10.0	0.804		6.20	
PCB-183	ND	5.00	0.754		3.29	
PCB-184	ND	5.00	0.659		1.25	
PCB-185	ND	5.00	0.930		1.47	
PCB-186	ND	5.00	0.640		2.43	
PCB-188	ND	5.00	0.581		1.08	
PCB-189	ND	5.00	0.984		1.49	
PCB-190	ND	5.00	0.781		1.70	
PCB-191	ND	5.00	0.747		1.96	
PCB-192	ND	5.00	0.818		1.69	
PCB-193	ND	5.00	0.755		1.46	
PCB-194	ND	5.00	2.39		1.71	
PCB-195	ND	5.00	2.48		1.47	
PCB-196/203	ND	10.0	1.41		6.35	
PCB-197	ND	5.00	1.01		1.80	
PCB-198	ND	5.00	1.46		3.78	
PCB-199	ND	5.00	1.49		4.05	
PCB-200	ND	5.00	1.07		1.75	
PCB-201	ND	5.00	0.986		1.02	
PCB-202	ND	5.00	1.05		1.55	
PCB-204	ND	5.00	1.09		1.48	
PCB-205	ND	5.00	2.11		1.53	
PCB-206	ND	5.00	3.82		1.32	
PCB-207	ND	5.00	1.21		1.51	
PCB-208	ND	5.00	1.16		1.34	
PCB-209	ND	5.00	4.02		1.86	
Total monoCB	ND	5.00	2.12			
Total diCB	23.5	10.0				
Total triCB	5.88	5.00				
Total tetraCB	ND	5.00	1.26			
Total pentaCB	ND	5.00	3.19			
Total hexaCB	ND	5.00	1.58			
Total heptaCB	ND	5.00	1.08			
Total octaCB	ND	5.00	2.48			
Total nonaCB	ND	5.00	3.82			
DecaCB	ND	5.00	4.02			
Total PCB	29.4	10.0				

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: Method Blank

EPA Method 1668C

Matrix: Aqueous
Sample Size: 1.00 L

QC Batch: B4J0110
Date Extracted: 20-Oct-2014 9:32

Lab Sample: B4J0110-BLK1
Date Analyzed: 22-Oct-14 01:30 Column: ZB-1 Analyst: DMS

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	69.7	5 - 145	
	13C-PCB-3	70.3	5 - 145	
	13C-PCB-4	55.2	5 - 145	
	13C-PCB-11	63.7	5 - 145	
	13C-PCB-9	58.0	5 - 145	
	13C-PCB-19	70.6	5 - 145	
	13C-PCB-28	75.0	5 - 145	
	13C-PCB-32	74.9	5 - 145	
	13C-PCB-37	76.0	5 - 145	
	13C-PCB-47	68.3	5 - 145	
	13C-PCB-52	68.2	5 - 145	
	13C-PCB-54	64.8	5 - 145	
	13C-PCB-70	75.9	5 - 145	
	13C-PCB-77	79.2	10 - 145	
	13C-PCB-80	77.1	10 - 145	
	13C-PCB-81	78.5	10 - 145	
	13C-PCB-95	72.4	10 - 145	
	13C-PCB-97	76.6	10 - 145	
	13C-PCB-101	74.0	10 - 145	
	13C-PCB-104	70.5	10 - 145	
	13C-PCB-105	85.1	10 - 145	
	13C-PCB-114	83.0	10 - 145	
	13C-PCB-118	78.8	10 - 145	
	13C-PCB-123	77.4	10 - 145	
	13C-PCB-126	88.4	10 - 145	
	13C-PCB-127	86.7	10 - 145	
	13C-PCB-138	83.7	10 - 145	
	13C-PCB-141	84.3	10 - 145	
	13C-PCB-153	83.7	10 - 145	
	13C-PCB-155	71.1	10 - 145	
	13C-PCB-156	85.1	10 - 145	
	13C-PCB-157	82.2	10 - 145	
	13C-PCB-159	83.7	10 - 145	
	13C-PCB-167	82.3	10 - 145	
	13C-PCB-169	83.6	10 - 145	
	13C-PCB-170	80.1	10 - 145	
	13C-PCB-180	80.9	10 - 145	
	13C-PCB-188	80.9	10 - 145	
	13C-PCB-189	82.8	10 - 145	
	13C-PCB-194	83.3	10 - 145	
	13C-PCB-202	79.6	10 - 145	
	13C-PCB-206	69.4	10 - 145	
	13C-PCB-208	80.0	10 - 145	
	13C-PCB-209	67.9	10 - 145	
CRS	13C-PCB-79	78.7	10 - 145	
	13C-PCB-178	81.7	10 - 145	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: OPR

EPA Method 1668C

Matrix: Aqueous
Sample Size: 1.00 L

QC Batch: B4J0110
Date Extracted: 20-Oct-2014 9:32

Lab Sample: B4J0110-BS1
Date Analyzed: 21-Oct-14 23:23 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits
PCB-1	898	1000	89.8	60 - 135
PCB-3	908	1000	90.8	60 - 135
PCB-4/10	4310	4000	108	60 - 135
PCB-15	2100	2000	105	60 - 135
PCB-19	1020	1000	102	60 - 135
PCB-37	1020	1000	102	60 - 135
PCB-54	1010	1000	101	60 - 135
PCB-77	1010	1000	101	60 - 135
PCB-81	1000	1000	100	60 - 135
PCB-104	1040	1000	104	60 - 135
PCB-105	1110	1000	111	60 - 135
PCB-106/118	2070	2000	104	60 - 135
PCB-114	1100	1000	110	60 - 135
PCB-123	1030	1000	103	60 - 135
PCB-126	1080	1000	108	60 - 135
PCB-155	1100	1000	110	60 - 135
PCB-156	1060	1000	106	60 - 135
PCB-157	1080	1000	108	60 - 135
PCB-167	1100	1000	110	60 - 135
PCB-169	1080	1000	108	60 - 135
PCB-188	1080	1000	108	60 - 135
PCB-189	1120	1000	112	60 - 135
PCB-202	1050	1000	105	60 - 135
PCB-205	1060	1000	106	60 - 135
PCB-206	1060	1000	106	60 - 135
PCB-208	1050	1000	105	60 - 135
PCB-209	1090	1000	109	60 - 135

	Labeled Standard	%R	LCL-UCL
IS	13C-PCB-1	82.9	15 - 145
IS	13C-PCB-3	84.7	15 - 145
IS	13C-PCB-4	66.4	15 - 145
IS	13C-PCB-11	76.1	15 - 145
IS	13C-PCB-9	69.5	15 - 145
IS	13C-PCB-19	82.2	15 - 145
IS	13C-PCB-28	72.9	15 - 145
IS	13C-PCB-32	86.5	15 - 145
IS	13C-PCB-37	83.4	15 - 145
IS	13C-PCB-47	75.4	15 - 145
IS	13C-PCB-52	76.5	15 - 145
IS	13C-PCB-54	71.4	15 - 145
IS	13C-PCB-70	81.1	15 - 145
IS	13C-PCB-77	86.3	40 - 145
IS	13C-PCB-80	85.1	40 - 145
IS	13C-PCB-81	86.0	40 - 145
IS	13C-PCB-95	78.5	40 - 145
IS	13C-PCB-97	82.7	40 - 145
IS	13C-PCB-101	82.5	40 - 145
IS	13C-PCB-104	75.3	40 - 145
IS	13C-PCB-105	88.4	40 - 145
IS	13C-PCB-114	86.8	40 - 145
IS	13C-PCB-118	85.0	40 - 145
IS	13C-PCB-123	83.9	40 - 145
IS	13C-PCB-126	92.0	40 - 145
IS	13C-PCB-127	91.0	40 - 145
IS	13C-PCB-138	87.3	40 - 145
IS	13C-PCB-141	88.7	40 - 145
IS	13C-PCB-153	88.2	40 - 145
IS	13C-PCB-155	75.8	40 - 145
IS	13C-PCB-156	88.7	40 - 145
IS	13C-PCB-157	86.9	40 - 145
IS	13C-PCB-159	91.4	40 - 145
IS	13C-PCB-167	87.8	40 - 145
IS	13C-PCB-169	88.4	40 - 145
IS	13C-PCB-170	83.1	40 - 145
IS	13C-PCB-180	83.6	40 - 145
IS	13C-PCB-188	84.5	40 - 145
IS	13C-PCB-189	89.2	40 - 145
IS	13C-PCB-194	86.1	40 - 145

Sample ID: OPR

EPA Method 1668C

Matrix: Aqueous
Sample Size: 1.00 L

QC Batch: B4J0110
Date Extracted: 20-Oct-2014 9:32

Lab Sample: B4J0110-BS1
Date Analyzed: 21-Oct-14 23:23 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits

	Labeled Standard	%R	LCL-UCL
IS	13C-PCB-202	81.5	40 - 145
IS	13C-PCB-206	72.3	40 - 145
IS	13C-PCB-208	85.1	40 - 145
IS	13C-PCB-209	69.2	40 - 145
CRS	13C-PCB-79	91.8	40 - 145
CRS	13C-PCB-178	90.0	40 - 145

LCL-UCL - Lower control limit - upper control limit

Sample ID: CC-A-01-20141013-W

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 11:45

Sample Data
Matrix: Aqueous
Sample Size: 1.01 L

Laboratory Data
Lab Sample: 1400762-01 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0110 Date Extracted: 20-Oct-2014 9:32
Date Analyzed : 22-Oct-14 02:33 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	2.64	4.94			1.21	J
PCB-2	1.06	4.94			1.75	J
PCB-3	2.31	4.94			1.49	J
PCB-4/10	6.28	19.7			5.64	J
PCB-5/8	11.2	19.7			3.59	J
PCB-6	ND	9.87	5.86		3.10	
PCB-7/9	ND	19.7	5.82		6.22	
PCB-11	78.5	9.87			3.86	B
PCB-12/13	ND	19.7	5.78		5.01	
PCB-14	ND	9.87	5.16		3.98	
PCB-15	12.0	9.87			2.53	
PCB-16/32	12.0	9.87			2.87	B
PCB-17	5.92	4.94			1.37	
PCB-18	16.4	4.94			2.57	B
PCB-19	2.87	4.94			2.38	J
PCB-20/21/33	13.2	14.8			10.3	J
PCB-22	8.66	4.94			3.17	
PCB-23	ND	4.94	0.858		1.35	
PCB-24/27	2.03	9.87			3.16	J
PCB-25	ND	4.94		1.54	3.34	
PCB-26	ND	4.94		4.12	2.19	
PCB-28	18.6	4.94			2.90	B
PCB-29	ND	4.94	0.846		1.60	
PCB-30	ND	4.94	0.675		2.09	
PCB-31	18.8	4.94			4.29	B
PCB-34	ND	4.94	0.892		2.34	
PCB-35	3.89	4.94			1.65	J
PCB-36	ND	4.94	0.868		2.69	
PCB-37	17.6	4.94			1.92	
PCB-38	ND	4.94	0.882		1.56	
PCB-39	ND	4.94	0.842		2.60	
PCB-40	7.46	4.94			3.08	
PCB-41/64/71/72	43.5	19.7			5.57	
PCB-42/59	10.3	9.87			2.84	
PCB-43/49	37.1	9.87			3.38	

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-44	77.6	4.94			2.48	
PCB-45	3.90	4.94			1.96	J
PCB-46	2.71	4.94			2.49	J
PCB-47	11.0	4.94			4.42	
PCB-48/75	4.41	9.87			2.09	J
PCB-50	ND	4.94	1.94		1.40	
PCB-51	2.18	4.94			1.42	J
PCB-52/69	141	9.87			3.64	
PCB-53	5.02	4.94			1.12	
PCB-54	ND	4.94	1.56		1.51	
PCB-55	3.73	4.94			1.19	J
PCB-56/60	45.8	9.87			2.19	
PCB-57	ND	4.94	1.37		0.857	
PCB-58	ND	4.94	1.38		1.81	
PCB-61/70	208	9.87			2.40	
PCB-62	ND	4.94	1.58		1.46	
PCB-63	2.55	4.94			0.696	J
PCB-65	ND	4.94	1.53		0.953	
PCB-66/76	70.4	9.87			2.82	
PCB-67	2.75	4.94			1.22	J
PCB-68	ND	4.94	1.37		1.24	
PCB-73	ND	4.94	1.54		1.56	
PCB-74	39.6	4.94			1.53	
PCB-77	64.2	4.94			1.34	
PCB-78	ND	4.94	1.38		0.990	
PCB-79	7.56	4.94			1.60	
PCB-80	ND	4.94	1.15		1.98	
PCB-81	2.20	4.94			2.34	J
PCB-82	73.8	4.94			1.69	
PCB-83	ND	4.94	1.96		1.32	
PCB-84/92	198	9.87			3.38	
PCB-85/116	79.4	9.87			2.83	
PCB-86	ND	4.94	2.92		2.34	
PCB-87/117/125	212	14.8			3.79	
PCB-88/91	60.2	4.94			3.25	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: CC-A-01-20141013-W

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 11:45

Sample Data
Matrix: Aqueous
Sample Size: 1.01 L

Laboratory Data
Lab Sample: 1400762-01 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0110 Date Extracted: 20-Oct-2014 9:32
Date Analyzed : 22-Oct-14 02:33 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-89	3.05	4.94			1.84	J
PCB-90/101	541	9.87			1.92	
PCB-93	ND	4.94	2.74		1.47	
PCB-94	ND	4.94	2.80		1.91	
PCB-95/98/102	344	14.8			6.58	
PCB-96	ND	4.94	2.16		2.16	
PCB-97	157	4.94			1.24	
PCB-99	170	4.94			1.94	
PCB-100	ND	4.94	2.35		2.03	
PCB-103	2.88	4.94			2.28	J
PCB-104	ND	4.94	1.87		0.931	
PCB-105	272	4.94			2.21	
PCB-106/118	649	9.87			2.44	
PCB-107/109	49.3	9.87			1.98	
PCB-108/112	23.0	9.87			1.86	
PCB-110	665	4.94			1.94	
PCB-111/115	9.57	9.87			0.768	J
PCB-113	2.71	4.94			1.31	J
PCB-114	12.1	4.94			1.81	
PCB-119	7.65	4.94			0.949	
PCB-120	ND	4.94	1.68		1.01	
PCB-121	ND	4.94	1.63		1.94	
PCB-122	7.50	4.94			1.84	
PCB-123	9.91	4.94			1.35	
PCB-124	31.5	4.94			1.79	
PCB-126	17.5	4.94			2.05	
PCB-127	ND	4.94	3.24		0.808	
PCB-128/162	140	9.87			1.68	
PCB-129	43.8	4.94			1.11	
PCB-130	60.6	4.94			2.21	
PCB-131	ND	4.94	3.90		1.46	
PCB-132/161	210	9.87			2.34	
PCB-133/142	22.2	9.87			2.19	
PCB-134/143	39.4	9.87			2.40	
PCB-135	91.3	4.94			2.90	

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-136	71.2	4.94			2.89	
PCB-137	39.7	4.94			2.08	
PCB-138/163/164	876	14.8			2.68	
PCB-139/149	561	9.87			7.87	
PCB-140	5.68	4.94			3.52	
PCB-141	181	4.94			1.15	
PCB-144	30.9	4.94			3.22	
PCB-145	ND	4.94	1.08		1.73	
PCB-146/165	111	9.87			1.91	
PCB-147	12.7	4.94			3.62	
PCB-148	ND	4.94	1.60		1.68	
PCB-150	1.30	4.94			1.14	J
PCB-151	134	4.94			3.59	
PCB-152	ND	4.94	1.08		1.82	
PCB-153	737	4.94			1.83	
PCB-154	8.71	4.94			2.78	
PCB-155	ND	4.94	1.04		1.45	
PCB-156	72.5	4.94			1.74	
PCB-157	21.6	4.94			1.17	
PCB-158/160	102	9.87			1.99	
PCB-159	ND	4.94	3.05		1.20	
PCB-166	3.72	4.94			0.920	J
PCB-167	42.5	4.94			1.65	
PCB-168	ND	4.94	2.60		0.933	
PCB-169	ND	4.94	4.54		1.12	
PCB-170	178	4.94			1.38	
PCB-171	53.4	4.94			1.61	
PCB-172	41.4	4.94			1.46	
PCB-173	ND	4.94		3.61	1.49	
PCB-174	205	4.94			1.42	
PCB-175	8.89	4.94			3.15	
PCB-176	20.4	4.94			2.17	
PCB-177	125	4.94			1.34	
PCB-178	40.7	4.94			2.25	
PCB-179	76.5	4.94			1.57	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: CC-A-01-20141013-W

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 11:45

Sample Data
Matrix: Aqueous
Sample Size: 1.01 L

Laboratory Data
Lab Sample: 1400762-01 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0110 Date Extracted: 20-Oct-2014 9:32
Date Analyzed : 22-Oct-14 02:33 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-180	424	4.94			0.610	
PCB-181	ND	4.94	1.26		1.01	
PCB-182/187	255	9.87			6.20	
PCB-183	95.5	4.94			3.29	
PCB-184	ND	4.94	0.792		1.25	
PCB-185	24.6	4.94			1.47	
PCB-186	ND	4.94	0.768		2.43	
PCB-188	1.47	4.94			1.08	J
PCB-189	6.86	4.94			1.49	
PCB-190	36.7	4.94			1.70	
PCB-191	8.62	4.94			1.96	
PCB-192	ND	4.94	1.12		1.69	
PCB-193	23.1	4.94			1.46	
PCB-194	74.8	4.94			1.71	
PCB-195	29.4	4.94			1.47	
PCB-196/203	75.6	9.87			6.35	
PCB-197	3.14	4.94			1.80	J
PCB-198	2.30	4.94			3.78	J
PCB-199	79.3	4.94			4.05	
PCB-200	9.68	4.94			1.75	
PCB-201	12.4	4.94			1.02	
PCB-202	19.3	4.94			1.55	
PCB-204	ND	4.94	1.33		1.48	
PCB-205	ND	4.94	5.54		1.53	
PCB-206	29.5	4.94			1.32	
PCB-207	4.07	4.94			1.51	J
PCB-208	7.64	4.94			1.34	
PCB-209	ND	4.94	7.34		1.86	
Total monoCB	6.01	4.94				
Total diCB	108	9.87				B
Total triCB	120	4.94		126		B
Total tetraCB	793	4.94				
Total pentaCB	3600	4.94				
Total hexaCB	3620	4.94				
Total heptaCB	1630	4.94				
Total octaCB	306	4.94				
Total nonaCB	41.2	4.94				
DecaCB	ND	4.94	7.34			
Total PCB	10200	9.87				B

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: CC-A-01-20141013-W

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 11:45

Sample Data
Matrix: Aqueous
Sample Size: 1.01 L

Laboratory Data
Lab Sample: 1400762-01 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0110 Date Extracted: 20-Oct-2014 9:32
Date Analyzed : 22-Oct-14 02:33 Column: ZB-1 Analyst: DMS

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	99.9	5 -145	
	13C-PCB-3	98.4	5 -145	
	13C-PCB-4	77.1	5 -145	
	13C-PCB-11	82.6	5 -145	
	13C-PCB-9	80.6	5 -145	
	13C-PCB-19	96.6	5 -145	
	13C-PCB-28	87.3	5 -145	
	13C-PCB-32	95.9	5 -145	
	13C-PCB-37	88.8	5 -145	
	13C-PCB-47	79.4	5 -145	
	13C-PCB-52	80.0	5 -145	
	13C-PCB-54	75.7	5 -145	
	13C-PCB-70	84.5	5 -145	
	13C-PCB-77	85.4	10 -145	
	13C-PCB-80	86.1	10 -145	
	13C-PCB-81	85.7	10 -145	
	13C-PCB-95	79.7	10 -145	
	13C-PCB-97	87.2	10 -145	
	13C-PCB-101	83.5	10 -145	
	13C-PCB-104	75.3	10 -145	
	13C-PCB-105	86.9	10 -145	
	13C-PCB-114	87.7	10 -145	
	13C-PCB-118	83.4	10 -145	
	13C-PCB-123	83.1	10 -145	
	13C-PCB-126	83.5	10 -145	
	13C-PCB-127	86.1	10 -145	
	13C-PCB-138	91.3	10 -145	
	13C-PCB-141	93.7	10 -145	
	13C-PCB-153	92.0	10 -145	
	13C-PCB-155	84.3	10 -145	
	13C-PCB-156	87.6	10 -145	
	13C-PCB-157	84.1	10 -145	
	13C-PCB-159	90.4	10 -145	
	13C-PCB-167	89.1	10 -145	
	13C-PCB-169	75.2	10 -145	
	13C-PCB-170	80.5	10 -145	
	13C-PCB-180	86.9	10 -145	
	13C-PCB-188	97.3	10 -145	
	13C-PCB-189	70.0	10 -145	
	13C-PCB-194	90.4	10 -145	
	13C-PCB-202	97.7	10 -145	
	13C-PCB-206	72.9	10 -145	
	13C-PCB-208	93.8	10 -145	
	13C-PCB-209	67.8	10 -145	
CRS	13C-PCB-79	90.6	10 -145	
	13C-PCB-178	97.7	10 -145	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: CC-FD-02-20141013-W

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 11:45

Sample Data
Matrix: Aqueous
Sample Size: 1.03 L

Laboratory Data
Lab Sample: 1400762-02 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0110 Date Extracted: 20-Oct-2014 9:32
Date Analyzed : 22-Oct-14 03:37 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	2.50	4.85			1.21	J
PCB-2	1.05	4.85			1.75	J
PCB-3	2.48	4.85			1.49	J
PCB-4/10	ND	19.4		6.14	5.64	
PCB-5/8	11.2	19.4			3.59	J
PCB-6	ND	9.70		2.83	3.10	
PCB-7/9	ND	19.4	6.01		6.22	
PCB-11	80.4	9.70			3.86	B
PCB-12/13	ND	19.4	5.98		5.01	
PCB-14	ND	9.70	5.33		3.98	
PCB-15	12.8	9.70			2.53	
PCB-16/32	12.2	9.70			2.87	B
PCB-17	5.53	4.85			1.37	
PCB-18	17.3	4.85			2.57	B
PCB-19	2.89	4.85			2.38	J
PCB-20/21/33	13.5	14.5			10.3	J
PCB-22	9.01	4.85			3.17	
PCB-23	ND	4.85	0.791		1.35	
PCB-24/27	2.07	9.70			3.16	J
PCB-25	2.12	4.85			3.34	J
PCB-26	5.13	4.85			2.19	
PCB-28	18.2	4.85			2.90	B
PCB-29	ND	4.85	0.780		1.60	
PCB-30	ND	4.85	0.649		2.09	
PCB-31	20.0	4.85			4.29	B
PCB-34	ND	4.85	0.822		2.34	
PCB-35	3.71	4.85			1.65	J
PCB-36	ND	4.85	0.791		2.69	
PCB-37	16.8	4.85			1.92	
PCB-38	ND	4.85	0.805		1.56	
PCB-39	ND	4.85	0.767		2.60	
PCB-40	9.03	4.85			3.08	
PCB-41/64/71/72	42.4	19.4			5.57	
PCB-42/59	10.9	9.70			2.84	
PCB-43/49	38.7	9.70			3.38	
PCB-44	74.9	4.85			2.48	
PCB-45	4.50	4.85			1.96	J
PCB-46	2.38	4.85			2.49	J
PCB-47	9.99	4.85			4.42	
PCB-48/75	3.73	9.70			2.09	J
PCB-50	ND	4.85	1.40		1.40	
PCB-51	1.75	4.85			1.42	J
PCB-52/69	136	9.70			3.64	
PCB-53	5.20	4.85			1.12	
PCB-54	ND	4.85	1.13		1.51	
PCB-55	ND	4.85		1.81	1.19	
PCB-56/60	46.0	9.70			2.19	
PCB-57	ND	4.85	1.01		0.857	
PCB-58	ND	4.85	1.02		1.81	
PCB-61/70	215	9.70			2.40	
PCB-62	ND	4.85	1.15		1.46	
PCB-63	ND	4.85		1.89	0.696	
PCB-65	ND	4.85	1.11		0.953	
PCB-66/76	70.6	9.70			2.82	
PCB-67	2.91	4.85			1.22	J
PCB-68	ND	4.85	0.998		1.24	
PCB-73	ND	4.85	1.15		1.56	
PCB-74	39.1	4.85			1.53	
PCB-77	68.0	4.85			1.34	
PCB-78	ND	4.85	1.08		0.990	
PCB-79	ND	4.85		5.17	1.60	
PCB-80	ND	4.85	0.868		1.98	
PCB-81	1.37	4.85			2.34	J
PCB-82	76.5	4.85			1.69	
PCB-83	ND	4.85	1.87		1.32	
PCB-84/92	191	9.70			3.38	
PCB-85/116	80.0	9.70			2.83	
PCB-86	ND	4.85	2.78		2.34	
PCB-87/117/125	215	14.5			3.79	
PCB-88/91	58.4	4.85			3.25	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: CC-FD-02-20141013-W

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 11:45

Sample Data
Matrix: Aqueous
Sample Size: 1.03 L

Laboratory Data
Lab Sample: 1400762-02 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0110 Date Extracted: 20-Oct-2014 9:32
Date Analyzed : 22-Oct-14 03:37 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-89	2.75	4.85			1.84	J
PCB-90/101	537	9.70			1.92	
PCB-93	ND	4.85	2.38		1.47	
PCB-94	ND	4.85	2.43		1.91	
PCB-95/98/102	341	14.5			6.58	
PCB-96	ND	4.85		2.08	2.16	
PCB-97	160	4.85			1.24	
PCB-99	171	4.85			1.94	
PCB-100	ND	4.85	2.19		2.03	
PCB-103	ND	4.85		1.73	2.28	
PCB-104	ND	4.85	1.75		0.931	
PCB-105	275	4.85			2.21	
PCB-106/118	655	9.70			2.44	
PCB-107/109	49.0	9.70			1.98	
PCB-108/112	24.7	9.70			1.86	
PCB-110	671	4.85			1.94	
PCB-111/115	8.84	9.70			0.768	J
PCB-113	ND	4.85	1.82		1.31	
PCB-114	13.2	4.85			1.81	
PCB-119	6.88	4.85			0.949	
PCB-120	2.80	4.85			1.01	J
PCB-121	ND	4.85	1.41		1.94	
PCB-122	8.00	4.85			1.84	
PCB-123	9.49	4.85			1.35	
PCB-124	31.5	4.85			1.79	
PCB-126	18.6	4.85			2.05	
PCB-127	ND	4.85	3.98		0.808	
PCB-128/162	143	9.70			1.68	
PCB-129	42.1	4.85			1.11	
PCB-130	66.8	4.85			2.21	
PCB-131	ND	4.85	5.23		1.46	
PCB-132/161	228	9.70			2.34	
PCB-133/142	22.0	9.70			2.19	
PCB-134/143	40.1	9.70			2.40	
PCB-135	89.1	4.85			2.90	
PCB-136	75.6	4.85			2.89	
PCB-137	36.2	4.85			2.08	
PCB-138/163/164	905	14.5			2.68	
PCB-139/149	585	9.70			7.87	
PCB-140	6.35	4.85			3.52	
PCB-141	189	4.85			1.15	
PCB-144	37.1	4.85			3.22	
PCB-145	ND	4.85	0.885		1.73	
PCB-146/165	110	9.70			1.91	
PCB-147	11.4	4.85			3.62	
PCB-148	ND	4.85	1.31		1.68	
PCB-150	ND	4.85		1.59	1.14	
PCB-151	136	4.85			3.59	
PCB-152	ND	4.85	0.881		1.82	
PCB-153	740	4.85			1.83	
PCB-154	9.69	4.85			2.78	
PCB-155	ND	4.85	0.852		1.45	
PCB-156	77.9	4.85			1.74	
PCB-157	22.4	4.85			1.17	
PCB-158/160	105	9.70			1.99	
PCB-159	ND	4.85	3.97		1.20	
PCB-166	ND	4.85	4.15		0.920	
PCB-167	45.5	4.85			1.65	
PCB-168	ND	4.85	3.49		0.933	
PCB-169	ND	4.85	6.02		1.12	
PCB-170	184	4.85			1.38	
PCB-171	52.9	4.85			1.61	
PCB-172	43.7	4.85			1.46	
PCB-173	4.85	4.85			1.49	
PCB-174	220	4.85			1.42	
PCB-175	8.49	4.85			3.15	
PCB-176	24.0	4.85			2.17	
PCB-177	126	4.85			1.34	
PCB-178	45.3	4.85			2.25	
PCB-179	78.4	4.85			1.57	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: CC-FD-02-20141013-W

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 11:45

Sample Data
Matrix: Aqueous
Sample Size: 1.03 L

Laboratory Data
Lab Sample: 1400762-02 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0110 Date Extracted: 20-Oct-2014 9:32
Date Analyzed : 22-Oct-14 03:37 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-180	439	4.85			0.610	
PCB-181	ND	4.85	2.25		1.01	
PCB-182/187	267	9.70			6.20	
PCB-183	101	4.85			3.29	
PCB-184	0.940	4.85			1.25	J
PCB-185	26.0	4.85			1.47	
PCB-186	ND	4.85	1.36		2.43	
PCB-188	1.15	4.85			1.08	J
PCB-189	6.71	4.85			1.49	
PCB-190	34.7	4.85			1.70	
PCB-191	9.60	4.85			1.96	
PCB-192	ND	4.85	2.01		1.69	
PCB-193	23.5	4.85			1.46	
PCB-194	83.3	4.85			1.71	
PCB-195	32.9	4.85			1.47	
PCB-196/203	82.0	9.70			6.35	
PCB-197	3.12	4.85			1.80	J
PCB-198	ND	4.85		1.95	3.78	
PCB-199	87.0	4.85			4.05	
PCB-200	10.2	4.85			1.75	
PCB-201	12.6	4.85			1.02	
PCB-202	21.6	4.85			1.55	
PCB-204	ND	4.85	1.37		1.48	
PCB-205	ND	4.85	7.36		1.53	
PCB-206	28.5	4.85			1.32	
PCB-207	4.24	4.85			1.51	J
PCB-208	6.49	4.85			1.34	
PCB-209	ND	4.85	15.1		1.86	
Total monoCB	6.03	4.85				
Total diCB	104	9.70		113		B
Total triCB	128	4.85				B
Total tetraCB	783	4.85		792		
Total pentaCB	3610	4.85				
Total hexaCB	3730	4.85				
Total heptaCB	1700	4.85				
Total octaCB	333	4.85		335		
Total nonaCB	39.3	4.85				
DecaCB	ND	4.85	15.1			
Total PCB	10400	9.70				B

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: CC-FD-02-20141013-W

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 11:45

Sample Data
Matrix: Aqueous
Sample Size: 1.03 L

Laboratory Data
Lab Sample: 1400762-02 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0110 Date Extracted: 20-Oct-2014 9:32
Date Analyzed : 22-Oct-14 03:37 Column: ZB-1 Analyst: DMS

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	94.1	5 -145	
	13C-PCB-3	95.5	5 -145	
	13C-PCB-4	74.0	5 -145	
	13C-PCB-11	80.8	5 -145	
	13C-PCB-9	78.3	5 -145	
	13C-PCB-19	91.3	5 -145	
	13C-PCB-28	76.6	5 -145	
	13C-PCB-32	94.5	5 -145	
	13C-PCB-37	86.3	5 -145	
	13C-PCB-47	78.0	5 -145	
	13C-PCB-52	77.5	5 -145	
	13C-PCB-54	73.7	5 -145	
	13C-PCB-70	83.7	5 -145	
	13C-PCB-77	82.7	10 -145	
	13C-PCB-80	83.6	10 -145	
	13C-PCB-81	83.8	10 -145	
	13C-PCB-95	79.1	10 -145	
	13C-PCB-97	85.2	10 -145	
	13C-PCB-101	83.1	10 -145	
	13C-PCB-104	74.8	10 -145	
	13C-PCB-105	79.6	10 -145	
	13C-PCB-114	82.1	10 -145	
	13C-PCB-118	81.0	10 -145	
	13C-PCB-123	80.7	10 -145	
	13C-PCB-126	78.3	10 -145	
	13C-PCB-127	79.4	10 -145	
	13C-PCB-138	84.8	10 -145	
	13C-PCB-141	85.0	10 -145	
	13C-PCB-153	86.0	10 -145	
	13C-PCB-155	82.2	10 -145	
	13C-PCB-156	79.9	10 -145	
	13C-PCB-157	78.1	10 -145	
	13C-PCB-159	85.8	10 -145	
	13C-PCB-167	79.4	10 -145	
	13C-PCB-169	69.9	10 -145	
	13C-PCB-170	76.1	10 -145	
	13C-PCB-180	81.8	10 -145	
	13C-PCB-188	92.1	10 -145	
	13C-PCB-189	64.7	10 -145	
	13C-PCB-194	89.1	10 -145	
	13C-PCB-202	90.7	10 -145	
	13C-PCB-206	69.0	10 -145	
	13C-PCB-208	91.8	10 -145	
	13C-PCB-209	63.9	10 -145	
CRS	13C-PCB-79	91.4	10 -145	
	13C-PCB-178	97.6	10 -145	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: Method Blank — EPA Method 1668C

Matrix: Solid
Sample Size: 10.0 g

QC Batch: B4J0119
Date Extracted: 22-Oct-2014 9:03

Lab Sample: B4J0119-BLK1
Date Analyzed: 25-Oct-14 06:24 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	ND	2.50	1.03		0.320	
PCB-2	ND	2.50	1.03		0.240	
PCB-3	ND	2.50	0.857		0.323	
PCB-4/10	ND	10.0	5.38		1.14	
PCB-5/8	ND	10.0	4.68		1.76	
PCB-6	ND	5.00	4.12		1.00	
PCB-7/9	ND	10.0	4.44		1.34	
PCB-11	ND	5.00	4.56		3.48	
PCB-12/13	ND	10.0	4.15		1.37	
PCB-14	ND	5.00	4.47		0.337	
PCB-15	ND	5.00	3.87		0.634	
PCB-16/32	ND	10.0	0.331		0.430	
PCB-17	ND	2.50	0.338		0.658	
PCB-18	ND	2.50	0.398		0.696	
PCB-19	ND	2.50	0.464		0.612	
PCB-20/21/33	ND	7.50	0.365		2.47	
PCB-22	ND	2.50	0.327		0.964	
PCB-23	ND	2.50	0.309		0.543	
PCB-24/27	ND	5.00	0.262		0.742	
PCB-25	ND	2.50	0.313		0.768	
PCB-26	ND	2.50	0.327		0.766	
PCB-28	0.460	2.50			1.12	J
PCB-29	ND	2.50	0.365		0.949	
PCB-30	ND	2.50	0.283		0.355	
PCB-31	0.487	2.50			0.809	J
PCB-34	ND	2.50	0.347		1.57	
PCB-35	ND	2.50	0.370		0.565	
PCB-36	ND	2.50	0.400		0.406	
PCB-37	ND	2.50	0.371		0.389	
PCB-38	ND	2.50	0.380		0.528	
PCB-39	ND	2.50	0.409		0.461	
PCB-40	ND	2.50	0.510		0.927	
PCB-41/64/71/72	ND	10.0	0.296		1.70	
PCB-42/59	ND	5.00	0.314		0.899	
PCB-43/49	ND	5.00	0.381		0.879	
PCB-44	ND	2.50	0.416		0.745	
PCB-45	ND	2.50	0.439		0.402	
PCB-46	ND	2.50	0.449		0.537	
PCB-47	ND	2.50	0.338		2.19	
PCB-48/75	ND	5.00	0.291		0.983	
PCB-50	ND	2.50	0.373		0.603	
PCB-51	ND	2.50	0.383		0.789	
PCB-52/69	ND	5.00	0.296		0.722	
PCB-53	ND	2.50	0.357		0.331	
PCB-54	ND	2.50	0.298		0.275	
PCB-55	ND	2.50	0.249		0.416	
PCB-56/60	0.582	5.00			0.825	J
PCB-57	ND	2.50	0.271		0.354	
PCB-58	ND	2.50	0.287		0.589	
PCB-61/70	ND	5.00	0.279		1.20	
PCB-62	ND	2.50	0.293		0.597	
PCB-63	ND	2.50	0.279		0.524	
PCB-65	ND	2.50	0.292		0.842	
PCB-66/76	0.762	5.00			1.31	J
PCB-67	ND	2.50	0.240		0.486	
PCB-68	ND	2.50	0.265		0.658	
PCB-73	ND	2.50	0.280		0.454	
PCB-74	ND	2.50	0.214		0.781	
PCB-77	ND	2.50	0.258		0.748	
PCB-78	ND	2.50	0.232		0.385	
PCB-79	ND	2.50	0.241		0.633	
PCB-80	ND	2.50	0.218		0.336	
PCB-81	ND	2.50	0.222		0.674	
PCB-82	ND	2.50	0.933		0.981	
PCB-83	ND	2.50	0.621		0.440	
PCB-84/92	ND	5.00	0.852		1.01	
PCB-85/116	ND	5.00	0.724		1.64	
PCB-86	ND	2.50	1.12		1.79	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: Method Blank — EPA Method 1668C

Matrix: Solid
Sample Size: 10.0 g

QC Batch: B4J0119
Date Extracted: 22-Oct-2014 9:03

Lab Sample: B4J0119-BLK1
Date Analyzed: 25-Oct-14 06:24 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-87/117/125	ND	7.50	0.608		0.880	
PCB-88/91	ND	5.00	0.857		1.25	
PCB-89	ND	2.50	0.789		1.22	
PCB-90/101	1.28	5.00			1.19	J
PCB-93	ND	2.50	1.13		2.53	
PCB-94	ND	2.50	0.905		0.874	
PCB-95/98/102	1.86	7.50			1.38	J
PCB-96	ND	2.50	0.653		0.588	
PCB-97	ND	2.50	0.797		0.675	
PCB-99	ND	2.50	0.667		0.474	
PCB-100	ND	2.50	0.793		0.511	
PCB-103	ND	2.50	0.777		0.428	
PCB-104	ND	2.50	0.628		0.876	
PCB-105	0.499	2.50			0.462	J
PCB-106/118	ND	5.00	0.594		0.728	
PCB-107/109	ND	5.00	0.536		0.631	
PCB-108/112	ND	5.00	0.736		0.844	
PCB-110	0.874	2.50			0.555	J
PCB-111/115	ND	5.00	0.577		1.24	
PCB-113	ND	2.50	0.632		0.495	
PCB-114	ND	2.50	0.595		0.418	
PCB-119	ND	2.50	0.615		0.383	
PCB-120	ND	2.50	0.562		0.622	
PCB-121	ND	2.50	0.592		0.978	
PCB-122	ND	2.50	0.688		0.619	
PCB-123	ND	2.50	0.606		0.494	
PCB-124	ND	2.50	0.482		0.813	
PCB-126	ND	2.50	0.724		0.543	
PCB-127	ND	2.50	0.561		0.326	
PCB-128/162	ND	5.00	0.381		1.08	
PCB-129	ND	2.50	0.507		0.567	
PCB-130	ND	2.50	0.469		0.798	
PCB-131	ND	2.50	0.463		0.731	
PCB-132/161	ND	5.00		0.612	1.05	
PCB-133/142	ND	5.00	0.513		1.04	
PCB-134/143	ND	5.00	0.458		1.05	
PCB-135	ND	2.50	0.500		1.47	
PCB-136	0.627	2.50			0.776	J
PCB-137	ND	2.50	0.426		0.541	
PCB-138/163/164	ND	7.50		1.47	0.809	
PCB-139/149	2.43	2.50			1.49	J
PCB-140	ND	2.50	0.548		1.20	
PCB-141	ND	2.50	0.417		0.678	
PCB-144	ND	2.50	0.520		1.38	
PCB-145	ND	2.50	0.330		1.05	
PCB-146/165	ND	5.00	0.337		0.792	
PCB-147	ND	2.50	0.483		5.26	
PCB-148	ND	2.50	0.532		1.45	
PCB-150	ND	2.50	0.397		0.801	
PCB-151	ND	2.50		0.811	1.16	
PCB-152	ND	2.50	0.355		0.744	
PCB-153	1.72	2.50			0.484	J
PCB-154	ND	2.50	0.462		0.837	
PCB-155	ND	2.50	0.356		0.767	
PCB-156	ND	2.50	0.349		0.534	
PCB-157	ND	2.50	0.331		0.485	
PCB-158/160	ND	5.00	0.322		0.915	
PCB-159	ND	2.50	0.359		0.578	
PCB-166	ND	2.50	0.337		0.425	
PCB-167	ND	2.50	0.310		0.653	
PCB-168	ND	2.50	0.290		0.502	
PCB-169	ND	2.50	0.352		0.767	
PCB-170	ND	2.50	0.259		0.758	
PCB-171	ND	2.50	0.222		0.372	
PCB-172	ND	2.50	0.215		0.857	
PCB-173	ND	2.50	0.316		0.507	
PCB-174	ND	2.50		0.362	0.797	
PCB-175	ND	2.50	0.263		0.679	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: Method Blank — EPA Method 1668C

Matrix:	Solid	QC Batch:	B4J0119	Lab Sample:	B4J0119-BLK1
Sample Size:	10.0 g	Date Extracted:	22-Oct-2014 9:03	Date Analyzed:	25-Oct-14 06:24 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-176	ND	2.50	0.180		0.729	
PCB-177	ND	2.50	0.280		0.404	
PCB-178	ND	2.50	0.257		0.610	
PCB-179	0.617	2.50			0.418	J
PCB-180	ND	2.50	0.261		0.420	
PCB-181	ND	2.50	0.254		1.26	
PCB-182/187	0.579	5.00			1.33	J
PCB-183	0.543	2.50			0.638	J
PCB-184	ND	2.50	0.163		0.597	
PCB-185	ND	2.50	0.195		0.557	
PCB-186	ND	2.50	0.183		0.421	
PCB-188	ND	2.50	0.168		0.759	
PCB-189	ND	2.50	0.230		0.483	
PCB-190	ND	2.50	0.187		0.686	
PCB-191	ND	2.50	0.207		0.447	
PCB-192	ND	2.50	0.202		0.528	
PCB-193	ND	2.50	0.205		0.836	
PCB-194	ND	2.50	0.869		0.645	
PCB-195	ND	2.50	0.859		0.722	
PCB-196/203	ND	5.00	0.462		0.983	
PCB-197	ND	2.50	0.344		0.794	
PCB-198	ND	2.50	0.490		0.792	
PCB-199	ND	2.50	0.464		0.615	
PCB-200	ND	2.50	0.348		0.795	
PCB-201	ND	2.50	0.322		0.317	
PCB-202	ND	2.50	0.342		0.759	
PCB-204	ND	2.50	0.325		0.543	
PCB-205	ND	2.50	0.683		0.471	
PCB-206	ND	2.50	0.828		0.852	
PCB-207	ND	2.50	0.264		0.402	
PCB-208	ND	2.50	0.307		0.441	
PCB-209	ND	2.50	0.872		1.10	
Total monoCB	ND	2.50	1.03			
Total diCB	ND	5.00	5.38			
Total triCB	0.947	2.50				J
Total tetraCB	1.34	2.50				J
Total pentaCB	4.52	2.50				
Total hexaCB	4.78	2.50		7.67		
Total heptaCB	1.74	2.50		2.10		J
Total octaCB	ND	2.50	0.869			
Total nonaCB	ND	2.50	0.828			
DecaCB	ND	2.50	0.872			
Total PCB	13.3	5.00				

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: Method Blank

EPA Method 1668C

Matrix: Solid
Sample Size: 10.0 g

QC Batch: B4J0119
Date Extracted: 22-Oct-2014 9:03

Lab Sample: B4J0119-BLK1
Date Analyzed: 25-Oct-14 06:24 Column: ZB-1 Analyst: DMS

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	94.8	5 - 145	
	13C-PCB-3	95.9	5 - 145	
	13C-PCB-4	69.1	5 - 145	
	13C-PCB-11	74.6	5 - 145	
	13C-PCB-9	70.8	5 - 145	
	13C-PCB-19	90.7	5 - 145	
	13C-PCB-28	79.1	5 - 145	
	13C-PCB-32	95.2	5 - 145	
	13C-PCB-37	86.9	5 - 145	
	13C-PCB-47	78.7	5 - 145	
	13C-PCB-52	76.1	5 - 145	
	13C-PCB-54	70.5	5 - 145	
	13C-PCB-70	87.1	5 - 145	
	13C-PCB-77	89.3	10 - 145	
	13C-PCB-80	90.4	10 - 145	
	13C-PCB-81	89.7	10 - 145	
	13C-PCB-95	82.8	10 - 145	
	13C-PCB-97	89.9	10 - 145	
	13C-PCB-101	86.9	10 - 145	
	13C-PCB-104	78.1	10 - 145	
	13C-PCB-105	74.2	10 - 145	
	13C-PCB-114	73.5	10 - 145	
	13C-PCB-118	92.5	10 - 145	
	13C-PCB-123	93.8	10 - 145	
	13C-PCB-126	71.7	10 - 145	
	13C-PCB-127	70.7	10 - 145	
	13C-PCB-138	88.7	10 - 145	
	13C-PCB-141	87.7	10 - 145	
	13C-PCB-153	88.3	10 - 145	
	13C-PCB-155	96.1	10 - 145	
	13C-PCB-156	89.8	10 - 145	
	13C-PCB-157	90.9	10 - 145	
	13C-PCB-159	89.3	10 - 145	
	13C-PCB-167	89.4	10 - 145	
	13C-PCB-169	89.7	10 - 145	
	13C-PCB-170	106	10 - 145	
	13C-PCB-180	104	10 - 145	
	13C-PCB-188	99.2	10 - 145	
	13C-PCB-189	105	10 - 145	
	13C-PCB-194	95.6	10 - 145	
	13C-PCB-202	115	10 - 145	
	13C-PCB-206	85.7	10 - 145	
	13C-PCB-208	96.3	10 - 145	
	13C-PCB-209	90.9	10 - 145	
CRS	13C-PCB-79	86.8	10 - 145	
	13C-PCB-178	99.2	10 - 145	

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specifc estimated detection limit
MDL - Method detection limit

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: OPR

EPA Method 1668C

Matrix: Solid
Sample Size: 10.0 g

QC Batch: B4J0119
Date Extracted: 22-Oct-2014 9:03

Lab Sample: B4J0119-BS1
Date Analyzed: 25-Oct-14 03:14 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits
PCB-1	362	500	72.5	60 - 135
PCB-3	361	500	72.3	60 - 135
PCB-4/10	1950	2000	97.5	60 - 135
PCB-15	930	1000	93.0	60 - 135
PCB-19	460	500	91.9	60 - 135
PCB-37	503	500	101	60 - 135
PCB-54	447	500	89.3	60 - 135
PCB-77	449	500	89.8	60 - 135
PCB-81	433	500	86.6	60 - 135
PCB-104	481	500	96.3	60 - 135
PCB-105	496	500	99.1	60 - 135
PCB-106/118	938	1000	93.8	60 - 135
PCB-114	491	500	98.2	60 - 135
PCB-123	464	500	92.7	60 - 135
PCB-126	505	500	101	60 - 135
PCB-155	461	500	92.2	60 - 135
PCB-156	447	500	89.5	60 - 135
PCB-157	424	500	84.8	60 - 135
PCB-167	435	500	87.1	60 - 135
PCB-169	418	500	83.7	60 - 135
PCB-188	453	500	90.6	60 - 135
PCB-189	453	500	90.6	60 - 135
PCB-202	451	500	90.3	60 - 135
PCB-205	447	500	89.3	60 - 135
PCB-206	467	500	93.5	60 - 135
PCB-208	475	500	95.0	60 - 135
PCB-209	464	500	92.8	60 - 135

	Labeled Standard	%R	LCL-UCL
IS	13C-PCB-1	102	15 - 145
IS	13C-PCB-3	106	15 - 145
IS	13C-PCB-4	75.9	15 - 145
IS	13C-PCB-9	78.6	15 - 145
IS	13C-PCB-11	84.7	15 - 145
IS	13C-PCB-19	101	15 - 145
IS	13C-PCB-28	87.5	15 - 145
IS	13C-PCB-32	106	15 - 145
IS	13C-PCB-37	85.9	15 - 145
IS	13C-PCB-47	85.6	15 - 145
IS	13C-PCB-52	83.8	15 - 145
IS	13C-PCB-54	77.6	15 - 145
IS	13C-PCB-70	89.1	15 - 145
IS	13C-PCB-77	90.7	40 - 145
IS	13C-PCB-80	91.2	40 - 145
IS	13C-PCB-81	92.1	40 - 145
IS	13C-PCB-95	88.0	40 - 145
IS	13C-PCB-97	93.0	40 - 145
IS	13C-PCB-101	92.1	40 - 145
IS	13C-PCB-104	83.0	40 - 145
IS	13C-PCB-105	76.2	40 - 145
IS	13C-PCB-114	77.0	40 - 145
IS	13C-PCB-118	96.1	40 - 145
IS	13C-PCB-123	97.5	40 - 145
IS	13C-PCB-126	75.5	40 - 145
IS	13C-PCB-127	75.7	40 - 145
IS	13C-PCB-138	92.0	40 - 145
IS	13C-PCB-141	90.2	40 - 145
IS	13C-PCB-153	91.2	40 - 145
IS	13C-PCB-155	101	40 - 145
IS	13C-PCB-156	94.6	40 - 145
IS	13C-PCB-157	96.0	40 - 145
IS	13C-PCB-159	93.6	40 - 145
IS	13C-PCB-167	92.6	40 - 145
IS	13C-PCB-169	93.9	40 - 145
IS	13C-PCB-170	110	40 - 145
IS	13C-PCB-180	110	40 - 145
IS	13C-PCB-188	103	40 - 145
IS	13C-PCB-189	108	40 - 145
IS	13C-PCB-194	99.3	40 - 145

Sample ID: OPR

EPA Method 1668C

Matrix: Solid
Sample Size: 10.0 g

QC Batch: B4J0119
Date Extracted: 22-Oct-2014 9:03

Lab Sample: B4J0119-BS1
Date Analyzed: 25-Oct-14 03:14 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits

	Labeled Standard	%R	LCL-UCL
IS	13C-PCB-202	122	40 - 145
IS	13C-PCB-206	91.3	40 - 145
IS	13C-PCB-208	99.7	40 - 145
IS	13C-PCB-209	96.6	40 - 145
CRS	13C-PCB-79	88.3	40 - 145
CRS	13C-PCB-178	101	40 - 145

LCL-UCL - Lower control limit - upper control limit

Sample ID: CC-A-01-20141013-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 12:15

Sample Data
Matrix: Sediment
Sample Size: 17.0 g
% Solids: 58.8

Laboratory Data
Lab Sample: 1400762-03 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0119 Date Extracted: 22-Oct-2014 9:03
Date Analyzed : 25-Oct-14 08:31 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	83.1	49.9			0.320	D
PCB-2	29.1	49.9			0.240	J, D
PCB-3	ND	49.9		62.0	0.323	D
PCB-4/10	ND	200		124	1.14	D
PCB-5/8	351	200			1.76	D
PCB-6	ND	99.9		70.2	1.00	D
PCB-7/9	ND	200	85.0		1.34	D
PCB-11	1210	99.9			3.48	D
PCB-12/13	ND	200	79.6		1.37	D
PCB-14	ND	99.9	85.8		0.337	D
PCB-15	341	99.9			0.634	D
PCB-16/32	426	200			0.430	D
PCB-17	157	49.9			0.658	D
PCB-18	639	49.9			0.696	D
PCB-19	75.6	49.9			0.612	D
PCB-20/21/33	479	150			2.47	D
PCB-22	275	49.9			0.964	D
PCB-23	ND	49.9	16.4		0.543	D
PCB-24/27	52.4	99.9			0.742	J, D
PCB-25	61.3	49.9			0.768	D
PCB-26	125	49.9			0.766	D
PCB-28	536	49.9			1.12	B, D
PCB-29	ND	49.9	19.4		0.949	D
PCB-30	ND	49.9	8.77		0.355	D
PCB-31	803	49.9			0.809	B, D
PCB-34	ND	49.9	18.4		1.57	D
PCB-35	85.0	49.9			0.565	D
PCB-36	ND	49.9	18.3		0.406	D
PCB-37	479	49.9			0.389	D
PCB-38	23.7	49.9			0.528	J, D
PCB-39	ND	49.9	18.7		0.461	D
PCB-40	624	49.9			0.927	D
PCB-41/64/71/72	3780	200			1.70	D
PCB-42/59	717	99.9			0.899	D
PCB-43/49	4170	99.9			0.879	D

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-44	9710	49.9			0.745	D
PCB-45	238	49.9			0.402	D
PCB-46	91.7	49.9			0.537	D
PCB-47	552	49.9			2.19	D
PCB-48/75	342	99.9			0.983	D
PCB-50	ND	49.9	26.3		0.603	D
PCB-51	89.7	49.9			0.789	D
PCB-52/69	17700	99.9			0.722	D
PCB-53	399	49.9			0.331	D
PCB-54	ND	49.9	21.0		0.275	D
PCB-55	283	49.9			0.416	D
PCB-56/60	2360	99.9			0.825	B, D
PCB-57	ND	49.9		15.6	0.354	D
PCB-58	ND	49.9	23.9		0.589	D
PCB-61/70	15900	99.9			1.20	D
PCB-62	ND	49.9	23.8		0.597	D
PCB-63	178	49.9			0.524	D
PCB-65	ND	49.9	23.7		0.842	D
PCB-66/76	3980	99.9			1.31	B, D
PCB-67	71.0	49.9			0.486	D
PCB-68	24.8	49.9			0.658	J, D
PCB-73	ND	49.9	20.2		0.454	D
PCB-74	2560	49.9			0.781	D
PCB-77	1690	49.9			0.748	D
PCB-78	ND	49.9	21.2		0.385	D
PCB-79	523	49.9			0.633	D
PCB-80	ND	49.9	18.6		0.336	D
PCB-81	352	49.9			0.674	D
PCB-82	6600	49.9			0.981	D
PCB-83	ND	49.9	14.6		0.440	D
PCB-84/92	24400	99.9			1.01	D
PCB-85/116	7540	99.9			1.64	D
PCB-86	ND	49.9	26.4		1.79	D
PCB-87/117/125	22900	150			0.880	D
PCB-88/91	6210	99.9			1.25	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: CC-A-01-20141013-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 12:15

Sample Data
Matrix: Sediment
Sample Size: 17.0 g
% Solids: 58.8

Laboratory Data
Lab Sample: 1400762-03 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0119 Date Extracted: 22-Oct-2014 9:03
Date Analyzed : 25-Oct-14 08:31 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-89	245	49.9			1.22	D
PCB-90/101	66100	99.9			1.19	B, D
PCB-93	ND	49.9	25.0		2.53	D
PCB-94	166	49.9			0.874	D
PCB-95/98/102	47900	150			1.38	B, D
PCB-96	ND	49.9	15.4		0.588	D
PCB-97	17400	49.9			0.675	D
PCB-99	16400	49.9			0.474	D
PCB-100	91.0	49.9			0.511	D
PCB-103	237	49.9			0.428	D
PCB-104	ND	49.9	14.8		0.876	D
PCB-105	20600	49.9			0.462	B, D
PCB-106/118	51800	99.9			0.728	D
PCB-107/109	3360	99.9			0.631	D
PCB-108/112	2670	99.9			0.844	D
PCB-110	70100	49.9			0.555	B, D
PCB-111/115	855	99.9			1.24	D
PCB-113	ND	49.9	14.5		0.495	D
PCB-114	1410	49.9			0.418	D
PCB-119	704	49.9			0.383	D
PCB-120	190	49.9			0.622	D
PCB-121	ND	49.9	13.0		0.978	D
PCB-122	630	49.9			0.619	D
PCB-123	689	49.9			0.494	D
PCB-124	2470	49.9			0.813	D
PCB-126	726	49.9			0.543	D
PCB-127	ND	49.9	97.5		0.326	D
PCB-128/162	13000	99.9			1.08	D
PCB-129	5460	49.9			0.567	D
PCB-130	5720	49.9			0.798	D
PCB-131	ND	49.9	57.1		0.731	D
PCB-132/161	26100	99.9			1.05	D
PCB-133/142	2910	99.9			1.04	D
PCB-134/143	5110	99.9			1.05	D
PCB-135	10700	49.9			1.47	D
PCB-136	10100	49.9			0.776	B, D
PCB-137	4940	49.9			0.541	D
PCB-138/163/164	95200	150			0.809	D
PCB-139/149	70500	49.9			1.49	B, D
PCB-140	371	49.9			1.20	D
PCB-141	21500	49.9			0.678	D
PCB-144	4150	49.9			1.38	D
PCB-145	23.0	49.9			1.05	J, D
PCB-146/165	10500	99.9			0.792	D
PCB-147	1380	49.9			5.26	D
PCB-148	ND	49.9	22.1		1.45	D
PCB-150	102	49.9			0.801	D
PCB-151	20300	49.9			1.16	D
PCB-152	70.4	49.9			0.744	D
PCB-153	75500	49.9			0.484	B, D
PCB-154	503	49.9			0.837	D
PCB-155	ND	49.9	14.8		0.767	D
PCB-156	9300	49.9			0.534	D
PCB-157	1820	49.9			0.485	D
PCB-158/160	11800	99.9			0.915	D
PCB-159	ND	49.9	46.1		0.578	D
PCB-166	371	49.9			0.425	D
PCB-167	3480	49.9			0.653	D
PCB-168	ND	49.9		58.1	0.502	D
PCB-169	ND	49.9	76.4		0.767	D
PCB-170	25400	49.9			0.758	D
PCB-171	6140	49.9			0.372	D
PCB-172	3750	49.9			0.857	D
PCB-173	686	49.9			0.507	D
PCB-174	29000	49.9			0.797	D
PCB-175	1000	49.9			0.679	D
PCB-176	3350	49.9			0.729	D
PCB-177	15700	49.9			0.404	D
PCB-178	5400	49.9			0.610	D
PCB-179	12500	49.9			0.418	B, D

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: CC-A-01-20141013-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 12:15

Sample Data
Matrix: Sediment
Sample Size: 17.0 g
% Solids: 58.8

Laboratory Data
Lab Sample: 1400762-03 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0119 Date Extracted: 22-Oct-2014 9:03
Date Analyzed : 25-Oct-14 08:31 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-180	66000	49.9			0.420	D
PCB-181	ND	49.9	53.1		1.26	D
PCB-182/187	30100	99.9			1.33	B, D
PCB-183	13800	49.9			0.638	B, D
PCB-184	27.1	49.9			0.597	J, D
PCB-185	2700	49.9			0.557	D
PCB-186	ND	49.9	9.50		0.421	D
PCB-188	38.9	49.9			0.759	J, D
PCB-189	826	49.9			0.483	D
PCB-190	4910	49.9			0.686	D
PCB-191	1060	49.9			0.447	D
PCB-192	ND	49.9	13.1		0.528	D
PCB-193	2910	49.9			0.836	D
PCB-194	14000	49.9			0.645	D
PCB-195	5490	49.9			0.722	D
PCB-196/203	17000	99.9			0.983	D
PCB-197	618	49.9			0.794	D
PCB-198	807	49.9			0.792	D
PCB-199	14900	49.9			0.615	D
PCB-200	2000	49.9			0.795	D
PCB-201	2020	49.9			0.317	D
PCB-202	3060	49.9			0.759	D
PCB-204	ND	49.9	24.0		0.543	D
PCB-205	626	49.9			0.471	D
PCB-206	3890	49.9			0.852	D
PCB-207	491	49.9			0.402	D
PCB-208	906	49.9			0.441	D
PCB-209	306	49.9			1.10	D
Total monoCB	112	49.9		174		
Total diCB	1900	99.9		2100		
Total triCB	4220	49.9				B
Total tetraCB	66400	49.9				B
Total pentaCB	372000	49.9				B
Total hexaCB	411000	49.9				B
Total heptaCB	225000	49.9				B

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
Total octaCB	60500	49.9				
Total nonaCB	5290	49.9				
DecaCB	306	49.9				
Total PCB	1150000	99.9				B

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: CC-A-01-20141013-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 12:15

Sample Data
Matrix: Sediment
Sample Size: 17.0 g
% Solids: 58.8

Laboratory Data
Lab Sample: 1400762-03 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0119 Date Extracted: 22-Oct-2014 9:03
Date Analyzed : 25-Oct-14 08:31 Column: ZB-1 Analyst: DMS

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	119	5 -145	D
	13C-PCB-3	102	5 -145	D
	13C-PCB-4	83.8	5 -145	D
	13C-PCB-11	75.7	5 -145	D
	13C-PCB-9	88.3	5 -145	D
	13C-PCB-19	97.6	5 -145	D
	13C-PCB-28	95.4	5 -145	D
	13C-PCB-32	108	5 -145	D
	13C-PCB-37	97.9	5 -145	D
	13C-PCB-47	83.5	5 -145	D
	13C-PCB-52	92.6	5 -145	D
	13C-PCB-54	85.6	5 -145	D
	13C-PCB-70	92.0	5 -145	D
	13C-PCB-77	78.5	10 -145	D
	13C-PCB-80	89.1	10 -145	D
	13C-PCB-81	81.3	10 -145	D
	13C-PCB-95	103	10 -145	D
	13C-PCB-97	92.5	10 -145	D
	13C-PCB-101	103	10 -145	D
	13C-PCB-104	93.0	10 -145	D
	13C-PCB-105	82.7	10 -145	D
	13C-PCB-114	81.6	10 -145	D
	13C-PCB-118	90.7	10 -145	D
	13C-PCB-123	93.1	10 -145	D
	13C-PCB-126	72.7	10 -145	D
	13C-PCB-127	81.9	10 -145	D
	13C-PCB-138	85.1	10 -145	D
	13C-PCB-141	90.2	10 -145	D
	13C-PCB-153	95.2	10 -145	D
	13C-PCB-155	107	10 -145	D
	13C-PCB-156	88.1	10 -145	D
	13C-PCB-157	89.7	10 -145	D
	13C-PCB-159	95.3	10 -145	D
	13C-PCB-167	88.8	10 -145	D
	13C-PCB-169	80.4	10 -145	D
	13C-PCB-170	89.9	10 -145	D
	13C-PCB-180	96.9	10 -145	D
	13C-PCB-188	101	10 -145	D
	13C-PCB-189	95.1	10 -145	D
	13C-PCB-194	99.0	10 -145	D
	13C-PCB-202	94.3	10 -145	D
	13C-PCB-206	92.2	10 -145	D
	13C-PCB-208	87.6	10 -145	D
	13C-PCB-209	93.0	10 -145	D
CRS	13C-PCB-79	82.8	10 -145	D
	13C-PCB-178	89.9	10 -145	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: CC-CB-04-20141013-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 13:20

Sample Data
Matrix: Sediment
Sample Size: 17.4 g
% Solids: 57.6

Laboratory Data
Lab Sample: 1400762-04 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0119 Date Extracted: 22-Oct-2014 9:03
Date Analyzed : 25-Oct-14 09:35 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	84.1	50.0			0.320	D
PCB-2	42.0	50.0			0.240	J, D
PCB-3	86.3	50.0			0.323	D
PCB-4/10	149	200			1.14	J, D
PCB-5/8	538	200			1.76	D
PCB-6	ND	100		93.4	1.00	D
PCB-7/9	ND	200	71.1		1.34	D
PCB-11	2360	100			3.48	D
PCB-12/13	ND	200	69.3		1.37	D
PCB-14	ND	100	74.6		0.337	D
PCB-15	448	100			0.634	D
PCB-16/32	457	200			0.430	D
PCB-17	239	50.0			0.658	D
PCB-18	699	50.0			0.696	D
PCB-19	65.1	50.0			0.612	D
PCB-20/21/33	707	150			2.47	D
PCB-22	389	50.0			0.964	D
PCB-23	ND	50.0	15.9		0.543	D
PCB-24/27	53.5	100			0.742	J, D
PCB-25	94.8	50.0			0.768	D
PCB-26	205	50.0			0.766	D
PCB-28	757	50.0			1.12	B, D
PCB-29	24.3	50.0			0.949	J, D
PCB-30	ND	50.0	8.70		0.355	D
PCB-31	1040	50.0			0.809	B, D
PCB-34	ND	50.0	17.9		1.57	D
PCB-35	125	50.0			0.565	D
PCB-36	ND	50.0	25.4		0.406	D
PCB-37	651	50.0			0.389	D
PCB-38	ND	50.0		24.3	0.528	D
PCB-39	ND	50.0	26.0		0.461	D
PCB-40	704	50.0			0.927	D
PCB-41/64/71/72	5130	200			1.70	D
PCB-42/59	897	100			0.899	D
PCB-43/49	6870	100			0.879	D

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-44	13400	50.0			0.745	D
PCB-45	293	50.0			0.402	D
PCB-46	143	50.0			0.537	D
PCB-47	773	50.0			2.19	D
PCB-48/75	457	100			0.983	D
PCB-50	ND	50.0	34.2		0.603	D
PCB-51	110	50.0			0.789	D
PCB-52/69	29000	100			0.722	D
PCB-53	607	50.0			0.331	D
PCB-54	ND	50.0	27.3		0.275	D
PCB-55	413	50.0			0.416	D
PCB-56/60	3780	100			0.825	B, D
PCB-57	34.4	50.0			0.354	J, D
PCB-58	16.2	50.0			0.589	J, D
PCB-61/70	28200	100			1.20	D
PCB-62	ND	50.0	30.3		0.597	D
PCB-63	293	50.0			0.524	D
PCB-65	ND	50.0	30.2		0.842	D
PCB-66/76	6430	100			1.31	B, D
PCB-67	113	50.0			0.486	D
PCB-68	31.3	50.0			0.658	J, D
PCB-73	ND	50.0	30.6		0.454	D
PCB-74	4630	50.0			0.781	D
PCB-77	2040	50.0			0.748	D
PCB-78	ND	50.0	31.0		0.385	D
PCB-79	834	50.0			0.633	D
PCB-80	ND	50.0	24.4		0.336	D
PCB-81	276	50.0			0.674	D
PCB-82	9840	50.0			0.981	D
PCB-83	ND	50.0	22.7		0.440	D
PCB-84/92	35200	100			1.01	D
PCB-85/116	12500	100			1.64	D
PCB-86	171	50.0			1.79	D
PCB-87/117/125	36500	150			0.880	D
PCB-88/91	9260	100			1.25	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: CC-CB-04-20141013-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 13:20

Sample Data
Matrix: Sediment
Sample Size: 17.4 g
% Solids: 57.6

Laboratory Data
Lab Sample: 1400762-04 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0119 Date Extracted: 22-Oct-2014 9:03
Date Analyzed : 25-Oct-14 09:35 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-89	362	50.0			1.22	D
PCB-90/101	98900	100			1.19	B, D
PCB-93	ND	50.0	33.5		2.53	D
PCB-94	240	50.0			0.874	D
PCB-95/98/102	65200	150			1.38	B, D
PCB-96	ND	50.0	20.3		0.588	D
PCB-97	27900	50.0			0.675	D
PCB-99	27200	50.0			0.474	D
PCB-100	ND	50.0		95.2	0.511	D
PCB-103	355	50.0			0.428	D
PCB-104	ND	50.0	19.5		0.876	D
PCB-105	31000	50.0			0.462	B, D
PCB-106/118	84400	100			0.728	D
PCB-107/109	4810	100			0.631	D
PCB-108/112	3940	100			0.844	D
PCB-110	103000	50.0			0.555	B, D
PCB-111/115	1450	100			1.24	D
PCB-113	ND	50.0	20.0		0.495	D
PCB-114	1970	50.0			0.418	D
PCB-119	1220	50.0			0.383	D
PCB-120	220	50.0			0.622	D
PCB-121	ND	50.0	17.5		0.978	D
PCB-122	926	50.0			0.619	D
PCB-123	1050	50.0			0.494	D
PCB-124	3420	50.0			0.813	D
PCB-126	895	50.0			0.543	D
PCB-127	ND	50.0	84.9		0.326	D
PCB-128/162	16800	100			1.08	D
PCB-129	6470	50.0			0.567	D
PCB-130	6950	50.0			0.798	D
PCB-131	ND	50.0		24.7	0.731	D
PCB-132/161	31400	100			1.05	D
PCB-133/142	3490	100			1.04	D
PCB-134/143	6160	100			1.05	D
PCB-135	11300	50.0			1.47	D

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-136	10700	50.0			0.776	B, D
PCB-137	6070	50.0			0.541	D
PCB-138/163/164	99700	150			0.809	D
PCB-139/149	78300	50.0			1.49	B, D
PCB-140	473	50.0			1.20	D
PCB-141	20400	50.0			0.678	D
PCB-144	5170	50.0			1.38	D
PCB-145	40.4	50.0			1.05	J, D
PCB-146/165	11500	100			0.792	D
PCB-147	1800	50.0			5.26	D
PCB-148	ND	50.0	21.9		1.45	D
PCB-150	115	50.0			0.801	D
PCB-151	20200	50.0			1.16	D
PCB-152	89.9	50.0			0.744	D
PCB-153	78600	50.0			0.484	B, D
PCB-154	738	50.0			0.837	D
PCB-155	ND	50.0	14.7		0.767	D
PCB-156	11100	50.0			0.534	D
PCB-157	2280	50.0			0.485	D
PCB-158/160	12900	100			0.915	D
PCB-159	ND	50.0	195		0.578	D
PCB-166	488	50.0			0.425	D
PCB-167	4050	50.0			0.653	D
PCB-168	96.8	50.0			0.502	D
PCB-169	ND	50.0	216		0.767	D
PCB-170	19900	50.0			0.758	D
PCB-171	5200	50.0			0.372	D
PCB-172	3180	50.0			0.857	D
PCB-173	551	50.0			0.507	D
PCB-174	24200	50.0			0.797	D
PCB-175	908	50.0			0.679	D
PCB-176	2680	50.0			0.729	D
PCB-177	13800	50.0			0.404	D
PCB-178	4240	50.0			0.610	D
PCB-179	10200	50.0			0.418	B, D

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: CC-CB-04-20141013-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 13:20

Sample Data
Matrix: Sediment
Sample Size: 17.4 g
% Solids: 57.6

Laboratory Data
Lab Sample: 1400762-04 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0119 Date Extracted: 22-Oct-2014 9:03
Date Analyzed : 25-Oct-14 09:35 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-180	56000	50.0			0.420	D
PCB-181	ND	50.0	28.3		1.26	D
PCB-182/187	24100	100			1.33	B, D
PCB-183	11000	50.0			0.638	B, D
PCB-184	20.8	50.0			0.597	J, D
PCB-185	2410	50.0			0.557	D
PCB-186	ND	50.0	17.0		0.421	D
PCB-188	50.5	50.0			0.759	D
PCB-189	822	50.0			0.483	D
PCB-190	3820	50.0			0.686	D
PCB-191	900	50.0			0.447	D
PCB-192	ND	50.0	22.4		0.528	D
PCB-193	2390	50.0			0.836	D
PCB-194	11800	50.0			0.645	D
PCB-195	4310	50.0			0.722	D
PCB-196/203	12800	100			0.983	D
PCB-197	394	50.0			0.794	D
PCB-198	411	50.0			0.792	D
PCB-199	11900	50.0			0.615	D
PCB-200	1530	50.0			0.795	D
PCB-201	1610	50.0			0.317	D
PCB-202	2820	50.0			0.759	D
PCB-204	ND	50.0	26.9		0.543	D
PCB-205	455	50.0			0.471	D
PCB-206	4330	50.0			0.852	D
PCB-207	652	50.0			0.402	D
PCB-208	1370	50.0			0.441	D
PCB-209	381	50.0			1.10	D
Total monoCB	212	50.0				
Total diCB	3490	100		3590		
Total triCB	5510	50.0		5530		B
Total tetraCB	106000	50.0				B
Total pentaCB	562000	50.0				B
Total hexaCB	447000	50.0				B
Total heptaCB	186000	50.0				B
Total octaCB	48000	50.0				
Total nonaCB	6360	50.0				
DecaCB	381	50.0				
Total PCB	1370000	100				B

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: CC-CB-04-20141013-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 13:20

Sample Data
Matrix: Sediment
Sample Size: 17.4 g
% Solids: 57.6

Laboratory Data
Lab Sample: 1400762-04 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0119 Date Extracted: 22-Oct-2014 9:03
Date Analyzed : 25-Oct-14 09:35 Column: ZB-1 Analyst: DMS

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	121	5 -145	D
	13C-PCB-3	111	5 -145	D
	13C-PCB-4	88.0	5 -145	D
	13C-PCB-11	90.9	5 -145	D
	13C-PCB-9	91.6	5 -145	D
	13C-PCB-19	117	5 -145	D
	13C-PCB-28	77.8	5 -145	D
	13C-PCB-32	110	5 -145	D
	13C-PCB-37	82.7	5 -145	D
	13C-PCB-47	89.2	5 -145	D
	13C-PCB-52	86.4	5 -145	D
	13C-PCB-54	88.0	5 -145	D
	13C-PCB-70	92.5	5 -145	D
	13C-PCB-77	81.5	10 -145	D
	13C-PCB-80	89.4	10 -145	D
	13C-PCB-81	82.2	10 -145	D
	13C-PCB-95	88.4	10 -145	D
	13C-PCB-97	81.4	10 -145	D
	13C-PCB-101	87.8	10 -145	D
	13C-PCB-104	79.4	10 -145	D
	13C-PCB-105	75.6	10 -145	D
	13C-PCB-114	79.1	10 -145	D
	13C-PCB-118	81.7	10 -145	D
	13C-PCB-123	88.6	10 -145	D
	13C-PCB-126	70.5	10 -145	D
	13C-PCB-127	67.9	10 -145	D
	13C-PCB-138	83.6	10 -145	D
	13C-PCB-141	84.9	10 -145	D
	13C-PCB-153	85.3	10 -145	D
	13C-PCB-155	94.7	10 -145	D
	13C-PCB-156	84.7	10 -145	D
	13C-PCB-157	85.3	10 -145	D
	13C-PCB-159	84.0	10 -145	D
	13C-PCB-167	84.4	10 -145	D
	13C-PCB-169	80.2	10 -145	D
	13C-PCB-170	89.4	10 -145	D
	13C-PCB-180	84.0	10 -145	D
	13C-PCB-188	95.0	10 -145	D
	13C-PCB-189	80.7	10 -145	D
	13C-PCB-194	82.4	10 -145	D
	13C-PCB-202	107	10 -145	D
	13C-PCB-206	87.6	10 -145	D
	13C-PCB-208	78.7	10 -145	D
	13C-PCB-209	90.6	10 -145	D
CRS	13C-PCB-79	86.4	10 -145	D
	13C-PCB-178	88.4	10 -145	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: CC-CB-22-20141013-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 14:10

Sample Data
Matrix: Sediment
Sample Size: 18.5 g
% Solids: 54.0

Laboratory Data
Lab Sample: 1400762-05 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0119 Date Extracted: 22-Oct-2014 9:03
Date Analyzed : 25-Oct-14 10:39 Column: ZB-1 Analyst: DMS
27-Oct-14 16:54 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	79.0	50.0			0.320	D
PCB-2	54.9	50.0			0.240	D
PCB-3	94.4	50.0			0.323	D
PCB-4/10	135	200			1.14	J, D
PCB-5/8	371	200			1.76	D
PCB-6	80.2	100			1.00	J, D
PCB-7/9	ND	200		49.6	1.34	D
PCB-11	2760	100			3.48	D
PCB-12/13	67.2	200			1.37	J, D
PCB-14	ND	100	93.5		0.337	D
PCB-15	546	100			0.634	D
PCB-16/32	422	200			0.430	D
PCB-17	193	50.0			0.658	D
PCB-18	674	50.0			0.696	D
PCB-19	104	50.0			0.612	D
PCB-20/21/33	478	150			2.47	D
PCB-22	284	50.0			0.964	D
PCB-23	ND	50.0	23.7		0.543	D
PCB-24/27	62.5	100			0.742	J, D
PCB-25	55.0	50.0			0.768	D
PCB-26	166	50.0			0.766	D
PCB-28	491	50.0			1.12	B, D
PCB-29	10.2	50.0			0.949	J, D
PCB-30	ND	50.0	6.64		0.355	D
PCB-31	755	50.0			0.809	B, D
PCB-34	ND	50.0	26.6		1.57	D
PCB-35	170	50.0			0.565	D
PCB-36	58.7	50.0			0.406	D
PCB-37	721	50.0			0.389	D
PCB-38	37.7	50.0			0.528	J, D
PCB-39	ND	50.0	32.3		0.461	D
PCB-40	1010	50.0			0.927	D
PCB-41/64/71/72	5870	200			1.70	D
PCB-42/59	1020	100			0.899	D
PCB-43/49	7360	100			0.879	D

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-44	15600	50.0			0.745	D
PCB-45	443	50.0			0.402	D
PCB-46	224	50.0			0.537	D
PCB-47	864	50.0			2.19	D
PCB-48/75	440	100			0.983	D
PCB-50	6.35	50.0			0.603	J, D
PCB-51	147	50.0			0.789	D
PCB-52/69	36200	100			0.722	D
PCB-53	1040	50.0			0.331	D
PCB-54	7.35	50.0			0.275	J, D
PCB-55	718	50.0			0.416	D
PCB-56/60	3280	100			0.825	B, D
PCB-57	ND	50.0	38.4		0.354	D
PCB-58	ND	50.0	40.6		0.589	D
PCB-61/70	22000	100			1.20	D
PCB-62	ND	50.0	40.7		0.597	D
PCB-63	237	50.0			0.524	D
PCB-65	ND	50.0	40.6		0.842	D
PCB-66/76	5540	100			1.31	B, D
PCB-67	112	50.0			0.486	D
PCB-68	ND	50.0	36.9		0.658	D
PCB-73	ND	50.0	38.6		0.454	D
PCB-74	3600	50.0			0.781	D
PCB-77	4990	50.0			0.748	D
PCB-78	ND	50.0	37.2		0.385	D
PCB-79	1410	50.0			0.633	D
PCB-80	ND	50.0	31.6		0.336	D
PCB-81	583	50.0			0.674	D
PCB-82	15700	50.0			0.981	D
PCB-83	ND	50.0	11.7		0.440	D
PCB-84/92	65800	100			1.01	D
PCB-85/116	17500	100			1.64	D
PCB-86	ND	50.0	21.1		1.79	D
PCB-87/117/125	51800	150			0.880	D
PCB-88/91	18000	100			1.25	D

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: CC-CB-22-20141013-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 14:10

Sample Data
Matrix: Sediment
Sample Size: 18.5 g
% Solids: 54.0

Laboratory Data
Lab Sample: 1400762-05 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0119 Date Extracted: 22-Oct-2014 9:03
Date Analyzed : 25-Oct-14 10:39 Column: ZB-1 Analyst: DMS
27-Oct-14 16:54 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-89	619	50.0			1.22	D
PCB-90/101	161000	100			1.19	B, D
PCB-93	ND	50.0	20.9		2.53	D
PCB-94	478	50.0			0.874	D
PCB-95/98/102	132000	150			1.38	B, D
PCB-96	672	50.0			0.588	D
PCB-97	42000	50.0			0.675	D
PCB-99	42100	50.0			0.474	D
PCB-100	210	50.0			0.511	D
PCB-103	586	50.0			0.428	D
PCB-104	ND	50.0	10.7		0.876	D
PCB-105	40900	50.0			0.462	B, D
PCB-106/118	107000	100			0.728	D
PCB-107/109	7290	100			0.631	D
PCB-108/112	6680	100			0.844	D
PCB-110	169000	50.0			0.555	B, E, D
PCB-111/115	2350	100			1.24	D
PCB-113	ND	50.0	12.1		0.495	D
PCB-114	2680	50.0			0.418	D
PCB-119	1860	50.0			0.383	D
PCB-120	571	50.0			0.622	D
PCB-121	ND	50.0	10.9		0.978	D
PCB-122	1470	50.0			0.619	D
PCB-123	1470	50.0			0.494	D
PCB-124	5430	50.0			0.813	D
PCB-126	2240	50.0			0.543	D
PCB-127	ND	50.0	93.5		0.326	D
PCB-128/162	34200	100			1.08	D
PCB-129	13000	50.0			0.567	D
PCB-130	16100	50.0			0.798	D
PCB-131	ND	50.0	190		0.731	D
PCB-132/161	61600	100			1.05	D
PCB-133/142	7480	100			1.04	D
PCB-134/143	13200	100			1.05	D
PCB-135	30300	50.0			1.47	D

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-136	30200	50.0			0.776	B, D
PCB-137	11200	50.0			0.541	D
PCB-138/163/164	216000	150			0.809	D
PCB-139/149	199000	50.0			1.49	B, E, D
PCB-140	1150	50.0			1.20	D
PCB-141	47400	50.0			0.678	D
PCB-144	12700	50.0			1.38	D
PCB-145	80.4	50.0			1.05	D
PCB-146/165	25200	100			0.792	D
PCB-147	4370	50.0			5.26	D
PCB-148	ND	50.0	14.6		1.45	D
PCB-150	290	50.0			0.801	D
PCB-151	55800	50.0			1.16	D
PCB-152	211	50.0			0.744	D
PCB-153	170000	50.0			0.484	B, E, D
PCB-154	1750	50.0			0.837	D
PCB-155	ND	50.0	9.74		0.767	D
PCB-156	19500	50.0			0.534	D
PCB-157	4620	50.0			0.485	D
PCB-158/160	27000	100			0.915	D
PCB-159	ND	50.0	316		0.578	D
PCB-166	944	50.0			0.425	D
PCB-167	8580	50.0			0.653	D
PCB-168	211	50.0			0.502	D
PCB-169	125	50.0			0.767	D
PCB-170	53600	50.0			0.758	D
PCB-171	13700	50.0			0.372	D
PCB-172	8760	50.0			0.857	D
PCB-173	1550	50.0			0.507	D
PCB-174	65300	50.0			0.797	D
PCB-175	2820	50.0			0.679	D
PCB-176	8300	50.0			0.729	D
PCB-177	37500	50.0			0.404	D
PCB-178	13800	50.0			0.610	D
PCB-179	31900	50.0			0.418	B, D

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: CC-CB-22-20141013-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 14:10

Sample Data
Matrix: Sediment
Sample Size: 18.5 g
% Solids: 54.0

Laboratory Data
Lab Sample: 1400762-05 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0119 Date Extracted: 22-Oct-2014 9:03
Date Analyzed : 25-Oct-14 10:39 Column: ZB-1 Analyst: DMS
27-Oct-14 16:54 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-180	138000	50.0			0.420	D
PCB-181	ND	50.0	73.4		1.26	D
PCB-182/187	71400	100			1.33	B, D
PCB-183	33400	50.0			0.638	B, D
PCB-184	41.0	50.0			0.597	J, D
PCB-185	5760	50.0			0.557	D
PCB-186	ND	50.0	38.7		0.421	D
PCB-188	77.4	50.0			0.759	D
PCB-189	2250	50.0			0.483	D
PCB-190	10900	50.0			0.686	D
PCB-191	2300	50.0			0.447	D
PCB-192	ND	50.0	58.2		0.528	D
PCB-193	6400	50.0			0.836	D
PCB-194	36200	50.0			0.645	D
PCB-195	14600	50.0			0.722	D
PCB-196/203	35600	100			0.983	D
PCB-197	1340	50.0			0.794	D
PCB-198	1310	50.0			0.792	D
PCB-199	32600	50.0			0.615	D
PCB-200	4210	50.0			0.795	D
PCB-201	4340	50.0			0.317	D
PCB-202	6130	50.0			0.759	D
PCB-204	ND	50.0	13.1		0.543	D
PCB-205	1710	50.0			0.471	D
PCB-206	6990	50.0			0.852	D
PCB-207	963	50.0			0.402	D
PCB-208	1510	50.0			0.441	D
PCB-209	370	50.0			1.10	D
Total monoCB	228	50.0				
Total diCB	3960	100		4010		
Total triCB	4680	50.0				B
Total tetraCB	113000	50.0				B
Total pentaCB	898000	50.0				B
Total hexaCB	1010000	50.0				B
Total heptaCB	507000	50.0				B

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
Total octaCB	138000	50.0				
Total nonaCB	9460	50.0				
DecaCB	370	50.0				
Total PCB	2690000	100				B

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: CC-CB-22-20141013-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 13-Oct-2014 14:10

Sample Data
Matrix: Sediment
Sample Size: 18.5 g
% Solids: 54.0

Laboratory Data
Lab Sample: 1400762-05 Date Received: 14-Oct-2014 8:45
QC Batch: B4J0119 Date Extracted: 22-Oct-2014 9:03
Date Analyzed : 25-Oct-14 10:39 Column: ZB-1 Analyst: DMS
27-Oct-14 16:54 Column: ZB-1 Analyst: DMS

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	120	5 -145	D
	13C-PCB-3	122	5 -145	D
	13C-PCB-4	88.1	5 -145	D
	13C-PCB-11	95.7	5 -145	D
	13C-PCB-9	97.1	5 -145	D
	13C-PCB-19	108	5 -145	D
	13C-PCB-28	91.7	5 -145	D
	13C-PCB-32	113	5 -145	D
	13C-PCB-37	89.7	5 -145	D
	13C-PCB-47	96.2	5 -145	D
	13C-PCB-52	99.6	5 -145	D
	13C-PCB-54	93.7	5 -145	D
	13C-PCB-70	103	5 -145	D
	13C-PCB-77	90.4	10 -145	D
	13C-PCB-80	99.1	10 -145	D
	13C-PCB-81	89.4	10 -145	D
	13C-PCB-95	92.1	10 -145	D
	13C-PCB-97	95.3	10 -145	D
	13C-PCB-101	95.5	10 -145	D
	13C-PCB-104	92.8	10 -145	D
	13C-PCB-105	76.9	10 -145	D
	13C-PCB-114	79.1	10 -145	D
	13C-PCB-118	92.1	10 -145	D
	13C-PCB-123	96.4	10 -145	D
	13C-PCB-126	68.4	10 -145	D
	13C-PCB-127	75.1	10 -145	D
	13C-PCB-138	85.9	10 -145	D
	13C-PCB-141	87.2	10 -145	D
	13C-PCB-153	91.7	10 -145	D
	13C-PCB-155	96.8	10 -145	D
	13C-PCB-156	91.5	10 -145	D
	13C-PCB-157	87.4	10 -145	D
	13C-PCB-159	87.4	10 -145	D
	13C-PCB-167	85.2	10 -145	D
	13C-PCB-169	79.0	10 -145	D
	13C-PCB-170	101	10 -145	D
	13C-PCB-180	122	10 -145	D
	13C-PCB-188	98.4	10 -145	D
	13C-PCB-189	86.3	10 -145	D
	13C-PCB-194	104	10 -145	D
	13C-PCB-202	105	10 -145	D
	13C-PCB-206	109	10 -145	D
	13C-PCB-208	104	10 -145	D
	13C-PCB-209	94.6	10 -145	D
CRS	13C-PCB-79	87.4	10 -145	D
	13C-PCB-178	88.7	10 -145	D

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
The results are reported in dry weight. The sample size is reported in wet weight.

DATA QUALIFIERS & ABBREVIATIONS

B	**This compound was also detected in the method blank.**
D	**Dilution**
E	**The amount detected is above the High Calibration Limit.**
H	**Recovery was outside laboratory acceptance limits.**
I	**Chemical Interference**
J	**The amount detected is below the Low Calibration Limit.**
P	**The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.**
*****	**See Cover Letter**
Conc.	**Concentration**
DL	**Sample-specific estimated detection limit**
MDL	**Method Detection Limit as determined by 40 CFR 136, Appendix B.**
EMPC	**Estimated Maximum Possible Concentration**
M	**Estimated Maximum Possible Concentration (CA Region 2)**
NA	**Not applicable**
RL	**Reporting Limit – concentrations that correspond to low calibration point**
ND	**Not Detected**
TEQ	**Toxic Equivalency**

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

Accrediting Authority	Certificate Number
Alabama Department of Environmental Management	41610
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2014022
Michigan Department of Natural Resources	9932
Nevada Division of Environmental Protection	CA004132015-1
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
North Carolina Department of Health & Human Services	06700
Oregon Laboratory Accreditation Program	4042-002
Pennsylvania Department of Environmental Protection	011
South Carolina Department of Health	87002001
Tennessee Department of Environment & Conservation	TN02996
Texas Commission on Environmental Quality	T104704189-14-5
Virginia Department of General Services	3138
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

CHAIN OF CUSTODY

Vista

FOR LABORATORY USE ONLY — Storage Secured

Laboratory Project ID: 1400762 — Yes ☑ No ☐

Storage ID: WR-2 — Temp: 3.6, 3.1 °C

TAT: (Check One):
Standard: ☑ 21 Days
Rush (surcharge may apply):
○ 14 days ○ 7 days Specify:

Project I.D.: 1400647 — P.O.# P0101635769 — Sampler: Corey Wilson (Name)

Invoice to: Name: Christine Nancarrow — Company: Leidos — Address: 18912 N. Creek Pkwy — City: Bothell — State: WA — Zip: 98011 — Ph#: 206.300.2144 — Fax#:

Relinquished by: (Signature and Printed Name) Corey Wilson — Date: 10/13/14 — Time: 1645 — Received by: (Signature and Printed Name) Bethany Benedict B. Benedict — Date: 10/14/14 — Time: 0851

Relinquished by: (Signature and Printed Name) — Date: — Time: — Received by: (Signature and Printed Name) — Date: — Time:

See "Sample Log-in Checklist" for additional sample information

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 • Fax (916) 673-0106

ATTN: Sample Receiving

Method of Shipment: Fed Ex Pri Overnight

Tracking No.: 806459792426

Add Analysis(es) Requested

Sample ID	Date	Time	Location/Sample Description	Container(s) Quantity	Type	Matrix	EPA1613 2378-TCDD	EPA1613 2378-TCDD/TCDF	EPA1613 PCDD/PCDF	EPA8290 2378-TCDD	EPA8290 2378-TCDD/TCDF	EPA8290 PCDD/PCDF	EPA8280 2378-TCDD	EPA8280 2378-TCDD/TCDF	EPA8280 PCDD/PCDF	EPA1668 TOTALS	EPA1668 COPLANAR PCB's	EPA1668 209 CONGENERS	EPA1668 PBDE	EPA1614 PAH	CARB429 WHO-29
CC-A-01-20141013-W	10/13/14	1145	Sump A-1 / Stormwater	4	A EF	AQ EF	✓									✓	✓				
CC-FD-02-20141013-W	10/13/14	1145	" "	4	A	AQ	✓									✓	✓				
CC-A-01-20141013-S	10/13/14	1215	" / Sediment	1	G	SD	✓									✓	✓				
CC-CB-04-20141013-S	10/13/14	1320	Catch Basin / Sediment	1	G	SD	✓									✓	✓				
CC-CB-22-20141013	10/13/14	1410	Catch Basin / Comp Sediment	1	G	SD	✓									✓	✓				

10/13/14

Special Instructions/Comments: 2 Coolers

SEND DOCUMENTATION AND RESULTS TO:

Name: Christine Nancarrow
Company: SAME As Above
Address:
City: State: Zip:
Phone: Fax:
Email:

Container Types: A = 1 Liter Amber, G = Glass Jar
P = PUF, T = MM5 Train, O = Other

*Bottle Preservative Type: T = Thiosulfate,
O = Other

Matrix Types: DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, AQ = Aqueous, O = Other

WHITE - ORIGINAL YELLOW - ARCHIVE PINK - COPY

SAMPLE LOG-IN CHECKLIST

Vista Analytical Laboratory

Vista Project #: 1400762 **TAT** Std

Samples Arrival:	**Date/Time** 10/14/14 0845	**Initials:** BZB	**Location:** WR-2 **Shelf/Rack:** NA
Logged In:	**Date/Time** 10/15/14 1224	**Initials:** BZB	**Location:** WR-2 **Shelf/Rack:** C4

Delivered By:	FedEx	UPS	On Trac	DHL	Hand Delivered	Other
Preservation:	Ice	Blue Ice		Dry Ice	None	

Temp °C: 3.6 (uncorrected)	**Time:** 0848	**Thermometer ID:** IR-1
Temp °C: 3.6 (corrected)		

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill 1of2 Trk # 8064 5979 2426	✓		
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓

$Na_2S_2O_3$ Preservation Documented? NA	COC	Sample Container	None		
Shipping Container	Vista	Client	Retain	Return	Dispose

Comments:

ID: CC-FD-02-20141013-W ~~A,B,C~~ C,D, containers con BZB 10/15/14

CC-A-01-20141013-W A,B,C,D Containers

Sample Login 11/2013 ckt

SAMPLE LOG-IN CHECKLIST

Vista Analytical Laboratory

Vista Project #: 1400762 **TAT** Std

Samples Arrival:	**Date/Time** 10/14/14 0845	**Initials:** BLB	**Location:** WR-2 **Shelf/Rack:** NA
Logged In:	**Date/Time** 10/15/14 1224	**Initials:** BLB	**Location:** WR2 **Shelf/Rack:** C4 / F4

Delivered By:	(FedEx)	UPS	On Trac	DHL	Hand Delivered	Other
Preservation:	(Ice)	Blue Ice	Dry Ice	None		

Temp °C: 3.1	(uncorrected)	**Time:** 0851	**Thermometer ID:** IR-1
Temp °C: 3.1	(corrected)		

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill 2 of 2 Trk # 7801 4745 5483	✓		
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	

If Chlorinated or Drinking Water Samples, Acceptable Preservation?					✓
$Na_2S_2O_3$ Preservation Documented? NA	COC	Sample Container	None		
Shipping Container	(Vista)	Client	(Retain)	Return	Dispose

Comments:

ID: CC-FD-02-2014-1013-W
CC-A-01-2014-1013-S
CC-CB-22-2014 1013-S
CC-CB-04-2014 1013-S

A & B Containers AQ
250ml jar 1each Sed

EXTRACTION INFORMATION

Process Sheet

Workorder: 1400762

Prep Expiration: 10/13/2015
Client: Leidos

Workorder Due: 04-Nov-14 00:00

TAT: 21

Method: **1613 Full List**
Matrix: **Aqueous**
Client Matrix: Aqueous
Also run: **Percent Solids**

Prep Batch: B4J0106

Prep Data Entered: 10/22/14 BMS
Date and Initials

Initial Sequence: S4J0042

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1400762-01 "A"	☒	CC-A-01-20141013-W	14-Oct-14 08:45	WR-2 C-4	
1400762-02 "B"	☒	CC-FD-02-20141013-W	14-Oct-14 08:45	WR-2 C-4	

BMS 10/20/14

Vista PM:Martha Maier

Vial Box ID: SLT

Sample Reconciled By: B. Smith 10/20/14

D2216-90 BATCH ID B4J0105

Analyst: B. Smith **Test Code:** %Moist/%Solids

Analyte: Dried at 110°C+/-5°C **Units:** %

HRMS-4

Date/Time IN: 10/20/14 0933 Date/Time OUT 10/21/14 0923

	B	C	D	E	F	G	H	K	M	N	O	P
				Intial and Date:	BMS 10/20/14	BMS 10/21/14			BMS 10/20/14			
Pan #	SampID	Source ID	SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added	Cl-
	1400762-01		Sample	1.24	16.48	1.24			6	MA	MA	0
	1400762-02 (A)		Sample	~~1.23~~ 1.24	~~18.05~~ 15.33	1.24			6			
	1400773-01		Sample	1.25	18.70	1.25			7			
	1400776-01 (B)		Sample	1.24	18.93	1.70			7			
	1400776-02 (B)		Sample	1.24	12.95	1.60			7			

(A) Sample put in oven 10/20/14 1016. BMS 10/20/14

(B) Crystals formed white in oven overnight. BMS 10/21/14

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B4J0105

Analyst: B. Smith **Test Code:** %Moist/%Solids

Analyte: Dried at 110°C+/-5°C **Units:** %

HRMS-4

Date/Time IN:	Date/Time OUT
10/20/14 0933	10/21/14 0923

	B	C	D	E	F	G	H	K	M	N	O	P
				Intial and Date:	BMS 10/20/14	BMS 10/21/14			BMS 10/20/14			
Pan #	SampID	Source ID	SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added	Cl-
	1400762-01		Sample	1.2400	16.4800	1.2400	0.0000	0.00	6	N/A	N/A	0
	1400762-02		Sample	1.2400	15.3300	1.2400	0.0000	0.00	6	N/A	N/A	0
	1400773-01		Sample	1.2500	18.7000	1.2500	0.0000	0.00	7	N/A	N/A	0
	1400776-01		Sample	1.2400	18.9300	1.7000	0.4600	2.60	7	N/A	N/A	0
	1400776-02		Sample	1.2400	12.9500	1.6000	0.3600	3.07	7	N/A	N/A	0

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 1613 Full List
Method: 1613 2.3.7.8s Only
Method: 1613 TCDD Only

B4J0106

Chemist: B. Smith

Prep Date/Time: 20-Oct-14 08:21

Prepared using: HRMS - SPE Extraction

C	VISTA Sample ID	Bottle + Sample (L)	Bottle Only (L)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
		NA	C4J0121	C4J0121	C4J0122						
☐	B4J0106-BLK1	NA	NA	(1.000)	BMS 10/20/14	BMS 10/20/14	NA	BMS 10/22/14	BMS 10/22/14	BMS 10/22/14	BMS 10/22/14
☐	B4J0106-BS1	L	L	L							
☐	1400762-01	1510.62	502.70	1.00792							
☐	1400762-02	~~1504.48~~ BMS 10/20/14	505.80	503.14	1.00266						
☐	1400773-01	1502.89	498.21	1.00468							
☐	1400776-01	~~1300.52~~ BMS 10/20/14	1300.52	419.34	0.88118						
☐	1400776-02	1325.65	412.64	0.91301							

IS Name (V10)	NS Name (V14)	CRS Name (V10)	RS Name (V10)	Cycle Time	APP: SEFUN SOX (SDS)	Check Out:
PCDD/F 14H2704, 10µL	PCDD/F 13L1101, 10µL	PCDD/F 14H2705, 10µL	PCDD/F 14HD706, 10µL	Start Date/Time 10/20/14 17:10	SOLV: TOI	Chemist/Date: BMS 10/20/14 J
PCB	PCB	PCB	PCB	Other SPE		Check In:
PAH	PAH	PAH	PAH	Stop Date/Time 10/21/14 09:11	Final Volume(s) 20µL C14	Chemist/Date: empty J
						Balance ID: HCMS-4

Comments:

Process Sheet

Workorder: 1400762

Prep Expiration: 10/13/2015
Client: Leidos

Workorder Due: 04-Nov-14 00:00

TAT: 21

Method: **1613 Full List**
Matrix: **Solid**
Client Matrix: Sediment
Also run: **Percent Solids**

Prep Batch: B4J0118

Prep Data Entered: 10/23/14 ES
Date and Initials

Initial Sequence: S4J0045

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1400762-03 "A"	☑	CC-A-01-20141013-S	14-Oct-14 08:45	WR-2 F-4	
1400762-04	☑	CC-CB-04-20141013-S	14-Oct-14 08:45	WR-2 F-4	
1400762-05	☑	CC-CB-22-20141013-S	14-Oct-14 08:45	WR-2 F-4	

Vista PM: Martha Maier

Vial Box ID: SLT

Sample Reconciled By: CJ 10/17/14

Solids estimate

Batch: B4J0097

Lab ID	Analysis	% Solids	Entered	Target weight	Weigh this much
1400762-03	Percent Solids	58.78		10.00	17.01
1400762-04	Percent Solids	57.64		10.00	17.35
1400762-05	Percent Solids	54.03		10.00	18.51
1400763-01 A	Percent Solids	59.32		10.00	16.86
1400763-02 A	Percent Solids	25.09		10.00	39.85
1400763-03 A	Percent Solids	27.12		10.00	36.87
763-1 B		56.04			17.84
763-2 B		25.38			39.40
763-3 B		29.39			34.03
763-1 C		63.60			15.72
763-2 C		26.73			37.41
763-3 C		27.13			36.86

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B4J0097

Analyst: C.Gallardo **Test Code:** %Moist/%Solids

Analyte: Dried at 110°C+/-5°C **Units:** %

HRMS-2

Date/Time IN:	Date/Time OUT
10/17/14 12:00	10/18/14 14:03

	B	C	D	E	F	G	H	K	M	N	O	P
				Intial and Date:	CG 10/17/14	IF 10/18/14			N/A			
Pan #	SampID	Source ID	SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added	Cl-
	1400762-03		Sample	1.2500	10.5900	6.7400	5.4900	58.78	N/A	N/A	N/A	N/A
	1400762-04		Sample	1.2500	12.8400	7.9300	6.6800	57.64	N/A	N/A	N/A	N/A
	1400762-05		Sample	1.2500	9.9300	5.9400	4.6900	54.03	N/A	N/A	N/A	N/A
	1400763-01		Sample	1.2600	6.5200	4.3800	3.1200	59.32	N/A	N/A	N/A	N/A
	1400763-02		Sample	1.2500	6.6300	2.6000	1.3500	25.09	N/A	N/A	N/A	N/A
	1400763-03		Sample	1.2500	5.4900	2.4000	1.1500	27.12	N/A	N/A	N/A	N/A
	1400763-01 "B"		Sample	1.2400	5.3800	3.5600	2.3200	56.04	N/A	N/A	N/A	N/A
	1400763-02 "B"		Sample	1.2600	7.8400	2.9300	1.6700	25.38	N/A	N/A	N/A	N/A
	1400763-03 "B"		Sample	1.2400	5.9700	2.6300	1.3900	29.39	N/A	N/A	N/A	N/A
	1400763-01 "C"		Sample	1.2400	3.9600	2.9700	1.7300	63.60	N/A	N/A	N/A	N/A
	1400763-02 "C"		Sample	1.2500	5.7400	2.4500	1.2000	26.73	N/A	N/A	N/A	N/A
	1400763-03 "C"		Sample	1.2500	4.5300	2.1400	0.8900	27.13	N/A	N/A	N/A	N/A

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B4J0097

Analyst: **Test Code:** %Moist/%Solids

Analyte: **Units:** %

Dried at 110°C+/-5°C

HRMS-2

Date/Time IN: 10/17/14 12:00 Date/Time OUT 10/18/14 2:03

	B	C	D	E	F	G	H	K	M	N	O	P
				Intial and Date:	CJS 10/17/14							
Pan #	SampID	Source ID	SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added	Cl-
	1400762-03		Sample	1.25	10.59	6.74						
	1400762-04		Sample	1.25	12.84	7.93						
	1400762-05		Sample	1.25	9.93	~~5.95~~ 5.94 JF 10/18/14						
	1400763-01 "A"		Sample	1.26	6.52	4.38						
	1400763-02		Sample	1.25	6.63	~~3.55~~ 2.60 JF 10/18/14						
	1400763-03		Sample	1.25	5.49	2.40						
	1400763-01 "B"			1.24	5.38	3.56						
	-02			1.26	7.84	2.93						
	-03			1.24	5.97	2.63						
	1400763-01 "C"			~~1.24~~ 1.23 10/18/14	3.96	2.97						
	-02			1.25	5.74	2.45						
	-03			1.25	4.53	2.14						

PREPARATION BENCH SHEET

Matrix: Solid

B4J0118

Chemist: ESchneider

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 22-Oct-14 08:44

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	C4J0127 AP CHEM/ DATE	C4J0128 ABSG CHEM/ DATE	C4J0128 AA CHEM/ DATE	C4J0129 Florisil CHEM/ DATE	RS CHEM/WIT DATE
☐	B4J0118-BLK1 (A)	10.00	(10.00)	ES 10/22/14	ES SK 10/23/14	ES 8/23/14	8 10/23/14	8 10/23/14	ES 10/23/14	ES VS 10/23/14
☐	B4J0118-BS1	↓	↓	↓	↓	↓	↓	↓	↓	↓
☐	1400762-03 (B)	17.01	17.04	↓	↓	↓	↓	↓	↓	↓
☐	1400762-04	17.35	17.37	↓	↓	↓	↓	↓	↓	↓
☐	1400762-05	18.51	18.54	↓	↓	↓	↓	↓	↓	↓

(A) Second acid partition performed. ES 8/23/14
(B) 1:5 dilution made per request. ES 8/23/14

IS Name (V10)	NS Name (V14)	CRS Name (V8)	RS Name (V10)	Cycle Time	APP: SEFUN SOX (SDS)
PCDD/F 14H2704, 10µL	PCDD/F 13L1101, 10µL	PCDD/F 14H2705, 10µL	PCDD/F 14H2706, 10µL	Start Date/Time	SOLV: TOL
PCB	PCB	PCB	PCB	10/22/14 15:25	Other N/A
PAH	PAH	PAH	PAH	Stop Date/Time	Final Volume(s) 20µL
				10/23/14 0800	C14

Check Out: Chemist/Date: ES 10/22/14
Check In: Chemist/Date:
Balance ID: HRMS-2

Comments:

Process Sheet

Workorder: 1400762

Prep Expiration: 10/13/2015
Client: Leidos

Workorder Due: 04-Nov-14 00:00

TAT: 21

Method: **1668C Full List**
Matrix: **Aqueous**
Client Matrix: Aqueous
Also run: **Percent Solids**

Prep Batch: B4J0110

Prep Data Entered: 10/21/14 SR
Date and Initials

Initial Sequence: _____

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1400762-01 "D"	☑	CC-A-01-20141013-W	14-Oct-14 08:45	WR-2 C-4	
1400762-02 "D"	☑	CC-FD-02-20141013-W	14-Oct-14 08:45	WR-2 C-4	

Vista PM:Martha Maier

Vial Box ID: LOCO

Sample Reconciled By: M.T 10/20/14

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B4J0109

Analyst: MJT **Test Code:** %Moist/%Solids

Analyte: Dried at 110°C+/-5°C **Units:** %

INST HRMS-4

Date/Time IN: 10/20/14 11:00 Date/Time OUT 10/21/14 1122

	B	C	D	E	F	G	H	K	M	N	O	P
				Intial and Date:	MJT 10/20/14	SR 10/21/14			MJT 10/20/14			
Pan #	SampID	Source ID	SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added (A)	Cl-
	1400762-01RE1		Sample	1.23	9.69	1.23			6	3	10	0
	1400762-02RE1		Sample	1.22	12.17	1.22			6	3	10	0
	1400768-01		Sample	1.23	11.03	1.25			7	3	20	0
	1400774-01 10/21/14 MJT		Sample	1.25	8.35	1.36			7	3	45	0
1400766-01	~~1400776-01RE1~~		Sample	1.25	10.19	1.26			7	3	10	0
	1400727-LOD		QC	NA	NA	NA	NA	NA	5	3	2	0
	1400727-LOQ		QC						5	2		0
	B4J0110-MB		QC						5	2		0
	↓ -OPR		QC						5	2		0
	B4J0111-MB		QC						5	2		0
	↓ -OPR		QC						5	2		0

(A) Acid Added in Drops. MJT 10/21/14

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B4J0109

Analyst: MJT **Test Code:** %Moist/%Solids

Analyte: Dried at 110°C+/-5°C **Units:** %

HMRS-4

Date/Time IN:	Date/Time OUT
10/20/14 1100	10/21/14 1122

	B	C	D	E	F	G	H	K	M	N	O	P
				Intial and Date:	MJT 10/20/14	SR 10/21/14			MJT 10/20/14			
Pan #	SampID	Source ID	SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added	Cl-
	1400762-01RE1		Sample	1.2300	9.6900	1.2300	0.0000	0.00	6	3	10	0
	1400762-02RE1		Sample	1.2200	12.1700	1.2200	0.0000	0.00	6	3	10	0
	1400768-01		Sample	1.2300	11.0300	1.2500	0.0200	0.20	7	3	20	0
	1400774-01		Sample	1.2500	8.3500	1.3600	0.1100	1.55	7	3	45	0
	1400766-01RE1		Sample	1.2500	10.1900	1.2600	0.0100	0.11	7	3	10	0
	1400727-LOD		QC						5	2	10	0
	1400727-LOQ		QC						5	2	10	0
	B4J0110 MB		QC						5	2	10	0
	B4J0110 OPR		QC						5	2	10	0
	B4J0111 MB		QC						5	2	10	0
	B4J0111 OPR		QC						5	2	10	0

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 1668A Full List
Method: 1668C Full List

B4J0110

Chemist: M.T

Prep Date/Time: 20-Oct-14 09:32

Prepared using: HRMS - Separatory Funnel

							N/A	CAJ0114	N/A	N/A	
C	VISTA Sample ID	Bottle + Sample ~~(L)~~ mL	Bottle Only ~~(L)~~ mL	Sample Amt. (L)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
☐	B4J0110-BLK1	NA	NA	(1.000)	M.T/MS 10/20/14	SR 10/21/14	N/A	SR 10/21/14	N/A	N/A	SR 10/21/14
☐	B4J0110-BS1 (A)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
☐	B4J0110-BS2 (B)										
☐	B4J0110-BS3 (C)										
☐	~~1400727-01~~										
☐	1400762-01	1516.63	503.53	1.0131							
☐	1400762-02	1534.82	503.49	1.03133							
☐	1400774-01	796.64	286.84	0.5098	↓	↓	↓	↓	↓	↓	↓

M.T 10/20/14

IS Name	NS Name	CRS Name	RS Name	Cycle Time	APP (SEFUN) SOX SDS	Check Out: Chemist/Date: M.T 10/20/14
PCDD/F ~~(V2)~~	PCDD/F (A) 13I2503, 10ul (V5)	PCDD/F	PCDD/F (V2)	Start Date/Time	SOLV: DCM	Check In: Chemist/Date: Empty ↓
PCB 14A3001, 10ul	PCB (B) BL0601, 10ul	PCB 14A3002, 10ul (V2)	PCB 14A3003, 10ul	NA	Other NA	Balance ID: HRMS-4
PAH	PAH (C) 13L0601, 25ul	PAH	PAH	Stop Date/Time	Final Volume(s) 20ul C9	
				NA		

Comments:

Process Sheet

Workorder: 1400762

Prep Expiration: 10/13/2015
Client: Leidos

Workorder Due: 04-Nov-14 00:00

TAT: 21

Method: **1668C Full List**
Matrix: **Solid**
Client Matrix: Sediment
Also run: **Percent Solids**

Prep Batch: B4J0119

Prep Data Entered: 10/24/14 EB
Date and Initials

Initial Sequence: S4J0044E

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1400762-03 "A"	☑	CC-A-01-20141013-S	14-Oct-14 08:45	WR-2 F-4	
1400762-04 T	☑	CC-CB-04-20141013-S	14-Oct-14 08:45	WR-2 F-4	
1400762-05 ↓	☑	CC-CB-22-20141013-S	14-Oct-14 08:45	WR-2 F-4	

Vista PM:Martha Maier

Vial Box ID: Muscle Up

Sample Reconciled By: CJ 10/17/14

Solids estimate

Batch: B4J0097

Lab ID	Analysis	% Solids	Entered	Target weight	Weigh this much
1400762-03	Percent Solids	58.78		10.00	17.01
1400762-04	Percent Solids	57.64		10.00	17.35
1400762-05	Percent Solids	54.03		10.00	18.51
1400763-01 A	Percent Solids	59.32		10.00	16.86
1400763-02 A	Percent Solids	25.09		10.00	39.85
1400763-03 A	Percent Solids	27.12		10.00	36.87
763-1 B		56.04			17.84
763-2 B		25.38			39.40
763-3 B		29.39			34.03
763-1 C		63.60			15.72
763-2 C		26.73			37.41
763-3 C		27.13			36.86

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B4J0097

Analyst: C.Gallardo **Test Code:** %Moist/%Solids

Analyte: Dried at 110°C+/-5°C **Units:** %

HRMS-2

Date/Time IN:	Date/Time OUT
10/17/14 12:00	10/18/14 14:03

	B	C	D	E	F	G	H	K	M	N	O	P
				Intial and Date:	CG 10/17/14	IF 10/18/14			N/A			
Pan #	SampID	Source ID	SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added	Cl-
	1400762-03		Sample	1.2500	10.5900	6.7400	5.4900	58.78	N/A	N/A	N/A	N/A
	1400762-04		Sample	1.2500	12.8400	7.9300	6.6800	57.64	N/A	N/A	N/A	N/A
	1400762-05		Sample	1.2500	9.9300	5.9400	4.6900	54.03	N/A	N/A	N/A	N/A
	1400763-01		Sample	1.2600	6.5200	4.3800	3.1200	59.32	N/A	N/A	N/A	N/A
	1400763-02		Sample	1.2500	6.6300	2.6000	1.3500	25.09	N/A	N/A	N/A	N/A
	1400763-03		Sample	1.2500	5.4900	2.4000	1.1500	27.12	N/A	N/A	N/A	N/A
	1400763-01 "B"		Sample	1.2400	5.3800	3.5600	2.3200	56.04	N/A	N/A	N/A	N/A
	1400763-02 "B"		Sample	1.2600	7.8400	2.9300	1.6700	25.38	N/A	N/A	N/A	N/A
	1400763-03 "B"		Sample	1.2400	5.9700	2.6300	1.3900	29.39	N/A	N/A	N/A	N/A
	1400763-01 "C"		Sample	1.2400	3.9600	2.9700	1.7300	63.60	N/A	N/A	N/A	N/A
	1400763-02 "C"		Sample	1.2500	5.7400	2.4500	1.2000	26.73	N/A	N/A	N/A	N/A
	1400763-03 "C"		Sample	1.2500	4.5300	2.1400	0.8900	27.13	N/A	N/A	N/A	N/A

D2216-90 BATCH ID B4J0097

Analyst: **Test Code:** %Moist/%Solids

Analyte: **Units:** %

Dried at 110°C+/-5°C

HRMS-2

Date/Time IN:	Date/Time OUT
10/17/14 12:00	10/18/14 2:03

Pan #	SampID	Source ID	SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added	Cl-
	B	C	D	E	F	G	H	K	M	N	O	P
				Intial and Date:	CY 10/17/14							
	1400762-03		Sample	1.25	10.59	6.74						
	1400762-04		Sample	1.25	12.84	7.93						
	1400762-05		Sample	1.25	9.93	~~5.95~~ 5.94 10/18/14						
	1400763-01 "A"		Sample	1.26	6.52	4.38						
	1400763-02		Sample	1.25	6.63	~~3.55~~ 2.60 10/18/14						
	1400763-03		Sample	1.25	5.49	2.40						
	1400763-01 "B"			1.24	5.38	3.56						
	-02			1.26	7.84	2.93						
	-03			1.24	5.97	2.63						
	1400763-01 "C"			1.24 ~~11.83~~ 10/17/14	3.96	2.97						
	-02			1.25	5.74	2.45						
	-03			1.25	4.53	2.14						

PREPARATION BENCH SHEET

Matrix: Solid

B4J0119

Chemist: ESonnevelder

Method: 1668C Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 22-Oct-14 09:03

PS

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	~~CRS~~ CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
						C4J0130	C4J0131	N/A	N/A	
☐	B4J0119-BLK1 (A)	10.00	(10.00)	ES (MT) 10/22/14	BR ES 10/23/14	BR 10/23/14	ES 10/24/14	NA	NA	ES BR 10/24/14
☐	B4J0119-BS1 (A)	↓	↓							
☐	1400762-03 (C) (F) (E)	17.01	17.03							
☐	1400762-04 (D) (F) (E)	17.35	17.35							
☐	1400762-05 (D) (E)	18.51	18.49							

(A) Put through AP 2x BR 10/23/14
(B) Crystals present in round bottom before F.V. ES 10/24/14
(C) Crystals present at FV ES 10/24/14
(D) Cloudy at FV ES 10/24/14
(E) 1:20 dilution made per request. ES 10/24/14
(F) ~150 µL FV. ES 10/24/14

PS

IS Name	NS Name	~~CRS~~ Name	RS Name	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: Chemist/Date:
PCDD/F (V3)	PCDD/F ~~V3~~ (V2) ES 10/22/14	PCDD/F (V2)	PCDD/F (V3)	Start Date/Time	SOLV: TOL	ES 10/22/14
PCB 14D2901, 10µL	PCB 14F1301, 10µL	PCB 14D2903, 10µL	PCB 14D2904, 10µL	10/22/14 15:25	Other N/A	Check In: Chemist/Date: ↓
PAH	PAH	PAH	PAH	Stop Date/Time	Final Volume(s) 100µL	Balance ID: HRMS-2
				10/23/14 0800	C9	

Comments:

SAMPLE DATA

EPA Method 1613

Client ID: Method Blank Filename: 141022D1 S:4 Acq:22-OCT-14 17:56:26 ConCal: ST141022D1-1
Lab ID: B4J0106-BLK1 GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 1.000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	*	*	n	1.18	NotF¶	*	*		570	2.5	0.967
	1,2,3,7,8-PeCDD	*	*	n	0.92	NotF¶	*	*		643	2.5	0.894
	1,2,3,4,7,8-HxCDD	*	*	n	1.09	NotF¶	*	*		353	2.5	1.02
	1,2,3,6,7,8-HxCDD	*	*	n	1.07	NotF¶	*	*		353	2.5	1.10
	1,2,3,7,8,9-HxCDD	*	*	n	0.93	NotF¶	*	*		353	2.5	1.13
	1,2,3,4,6,7,8-HpCDD	*	*	n	1.12	NotF¶	*	*		625	2.5	1.94
	OCDD	*	*	n	0.95	NotF¶	*	*		1000	1.0	1.62
	2,3,7,8-TCDF	*	*	n	1.08	NotF¶	*	*		356	2.5	0.513
	1,2,3,7,8-PeCDF	*	*	n	1.09	NotF¶	*	*		881	2.5	1.35
	2,3,4,7,8-PeCDF	*	*	n	1.04	NotF¶	*	*		453	2.5	0.743
	1,2,3,4,7,8-HxCDF	*	*	n	1.39	NotF¶	*	*		1730	2.5	1.52
	1,2,3,6,7,8-HxCDF	*	*	n	1.26	NotF¶	*	*		821	2.5	0.819
	2,3,4,6,7,8-HxCDF	*	*	n	1.30	NotF¶	*	*		821	2.5	0.979
	1,2,3,7,8,9-HxCDF	*	*	n	1.19	NotF¶	*	*		821	2.5	1.39
	1,2,3,4,6,7,8-HpCDF	*	*	n	1.62	NotF¶	*	*		373	2.5	0.655
	1,2,3,4,7,8,9-HpCDF	*	*	n	1.53	NotF¶	*	*		373	2.5	0.572
	OCDF	*	*	n	1.10	NotF¶	*	*		529	2.5	1.74

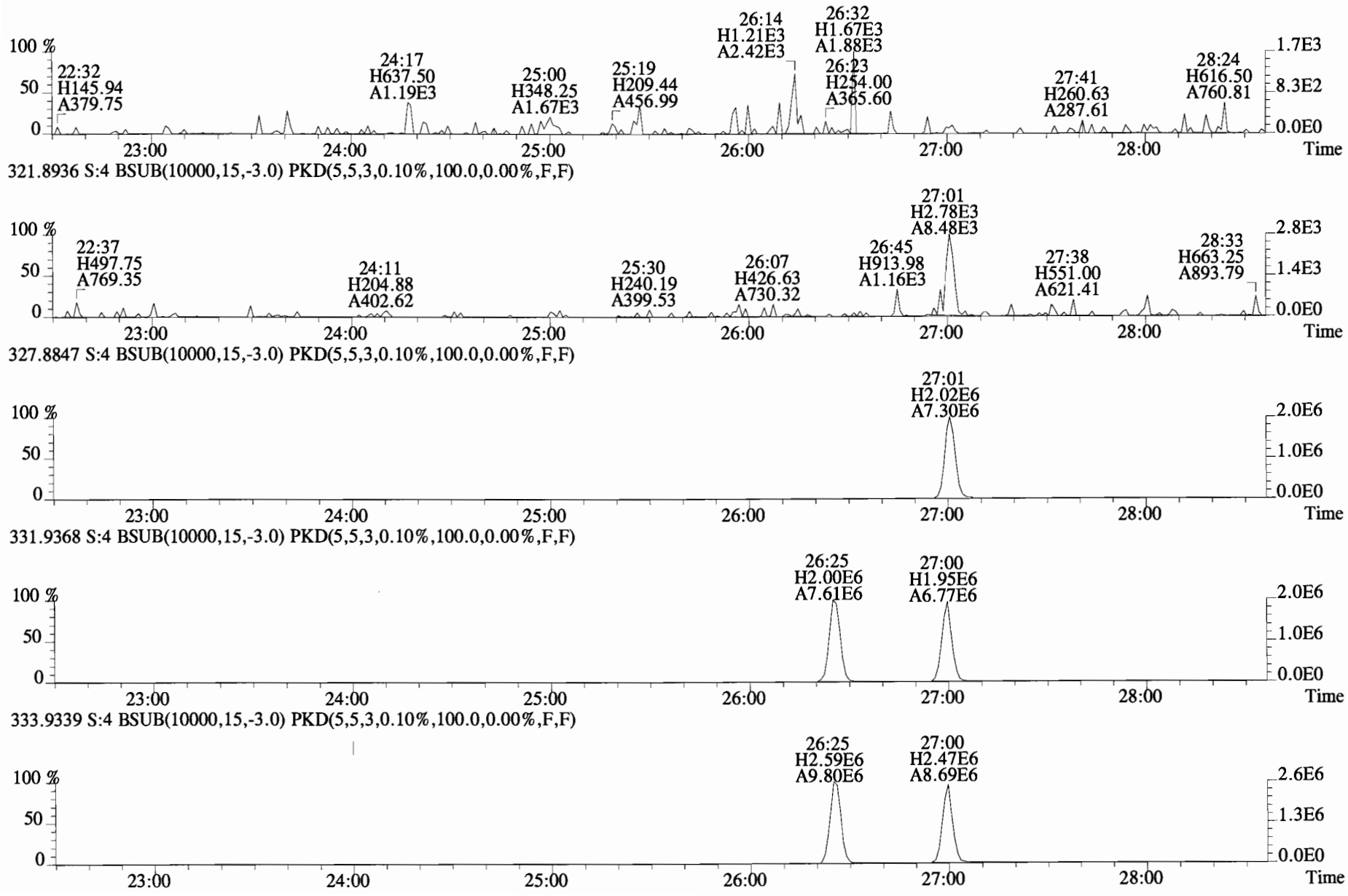
Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	*	*		570	0.967
Total Penta-Dioxins	*	*		1210	1.68
Total Hexa-Dioxins	*	*		634	1.95
Total Hepta-Dioxins	*	*		625	1.94
Total Tetra-Furans	*	*		356	0.513
Total Penta-Furans	0.0000	0.0000		881	1.40
Total Hexa-Furans	*	*		1730	1.99
Total Hepta-Furans	*	*		538	0.885

								Rec	Qual
IS	13C-2,3,7,8-TCDD	1.55e+07	0.78	y	1.07	26:60	1.022	1654.9	82.7	
IS	13C-1,2,3,7,8-PeCDD	1.78e+07	0.63	y	1.24	31:30	1.192	1651.7	82.6	
IS	13C-1,2,3,4,7,8-HxCDD	1.27e+07	1.31	y	0.72	34:50	1.014	1691.6	84.6	
IS	13C-1,2,3,6,7,8-HxCDD	1.30e+07	1.23	y	0.74	34:56	1.017	1696.2	84.8	
IS	13C-1,2,3,7,8,9-HxCDD	1.48e+07	1.25	y	0.86	35:14	1.026	1666.5	83.3	
IS	13C-1,2,3,4,6,7,8-HpCDD	1.13e+07	1.05	y	0.64	38:42	1.126	1691.2	84.6	
IS	13C-OCDD	2.18e+07	0.89	y	0.78	42:01	1.223	2678.3	67.0	
IS	13C-2,3,7,8-TCDF	2.15e+07	0.76	y	0.92	26:13	0.992	1526.2	76.3	
IS	13C-1,2,3,7,8-PeCDF	2.35e+07	1.59	y	0.95	30:20	1.148	1624.1	81.2	
IS	13C-2,3,4,7,8-PeCDF	2.37e+07	1.62	y	0.97	31:13	1.182	1601.2	80.1	
IS	13C-1,2,3,4,7,8-HxCDF	1.87e+07	0.52	y	0.99	33:55	0.988	1814.0	90.7	
IS	13C-1,2,3,6,7,8-HxCDF	1.90e+07	0.53	y	1.10	34:03	0.992	1669.8	83.5	
IS	13C-2,3,4,6,7,8-HxCDF	1.78e+07	0.52	y	1.03	34:40	1.009	1665.5	83.3	
IS	13C-1,2,3,7,8,9-HxCDF	1.51e+07	0.51	y	0.86	35:38	1.037	1696.8	84.8	
IS	13C-1,2,3,4,6,7,8-HpCDF	1.13e+07	0.44	y	0.71	37:29	1.091	1528.6	76.4	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.19e+07	0.43	y	0.71	39:15	1.143	1621.1	81.1	
IS	13C-OCDF	2.52e+07	0.89	y	0.87	42:15	1.230	2774.8	69.4	
C/Up	37Cl-2,3,7,8-TCDD	7.30e+06			1.21	27:01	1.022	691.52	86.4	
RS/RT	13C-1,2,3,4-TCDD	1.74e+07	0.78	y	1.00	26:25	*	2000.0		
RS	13C-1,2,3,4-TCDF	3.04e+07	0.78	y	1.00	25:00	*	2000.0		
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.08e+07	0.51	y	1.00	34:21	*	2000.0		

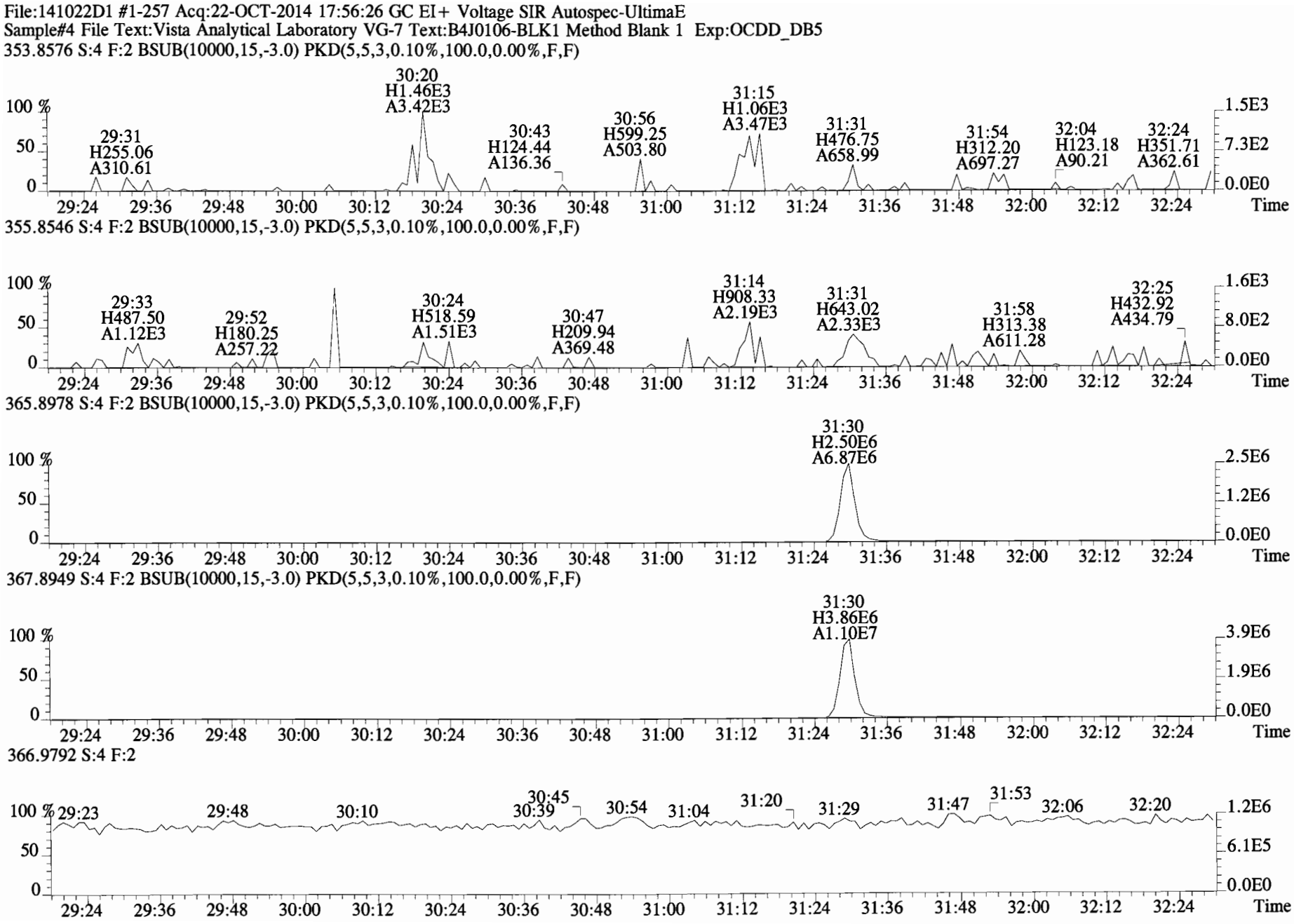
Integrations by Analyst: [illegible] Date: 10/27/14

Reviewed by Analyst: [illegible] Date: 10/29/14

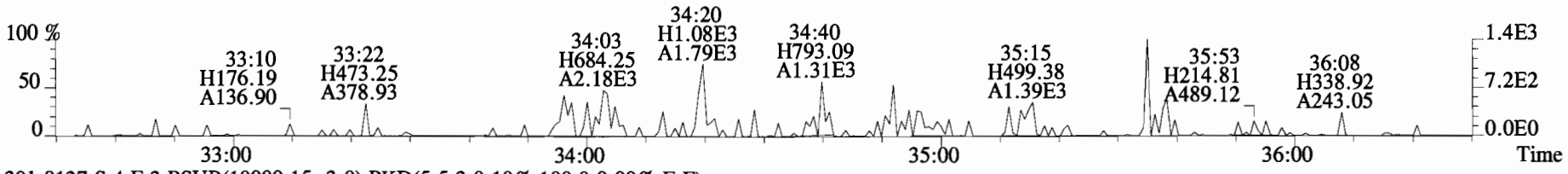
File:141022D1 #1-551 Acq:22-OCT-2014 17:56:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BLK1 Method Blank 1 Exp:OCDD_DB5



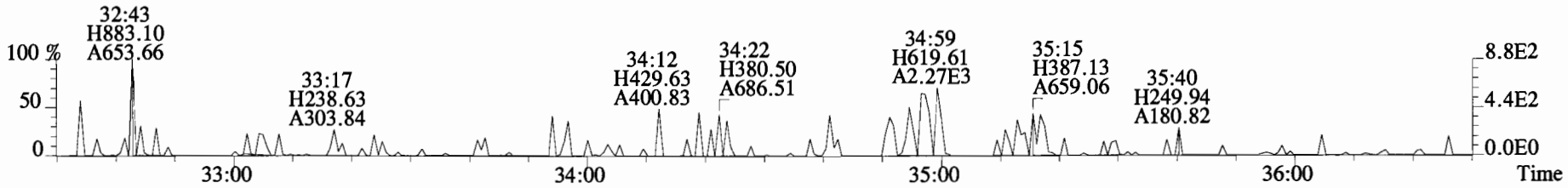
File:141022D1 #1-257 Acq:22-OCT-2014 17:56:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BLK1 Method Blank 1 Exp:OCDD_DB5



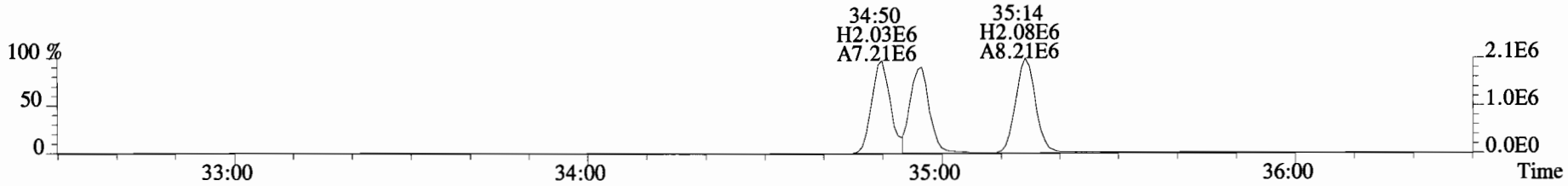
File:141022D1 #1-385 Acq:22-OCT-2014 17:56:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BLK1 Method Blank 1 Exp:OCDD_DB5
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



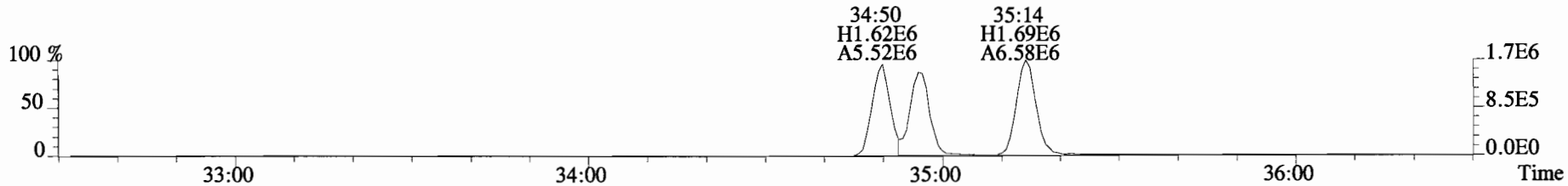
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



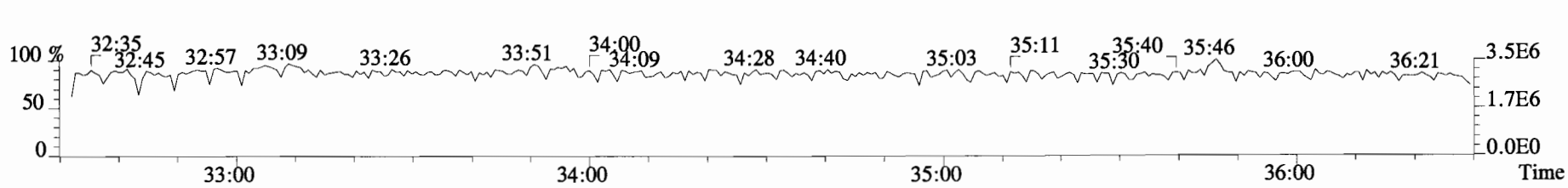
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



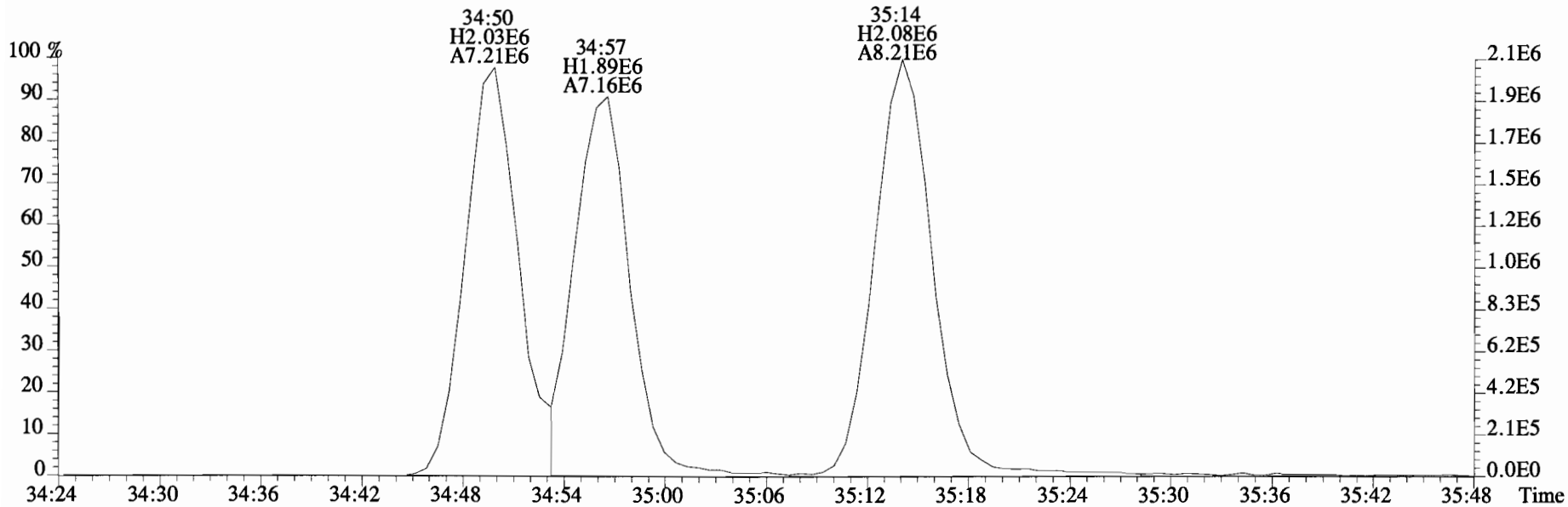
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



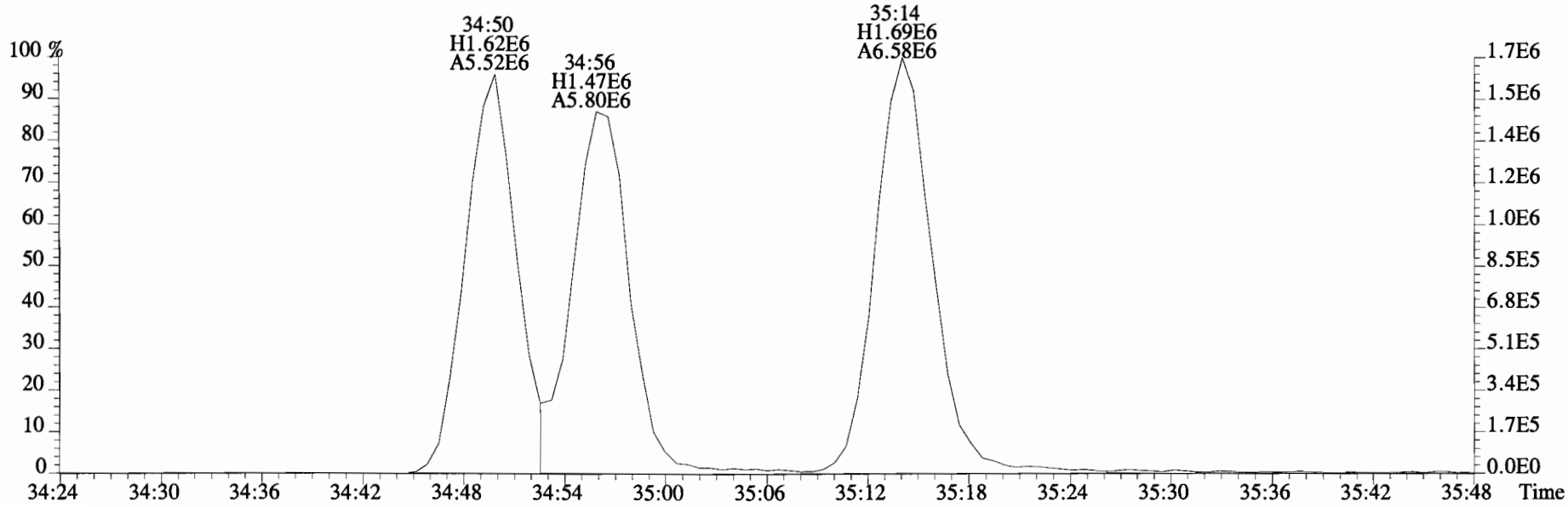
380.9760 S:4 F:3



File:141022D1 #1-385 Acq:22-OCT-2014 17:56:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BLK1 Method Blank 1 Exp:OCDD_DB5
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

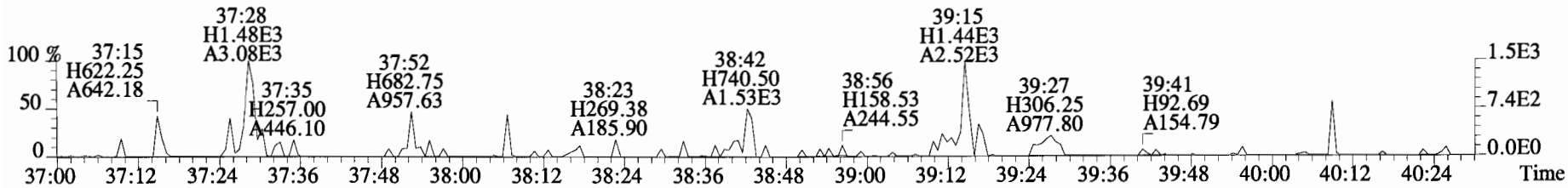


403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

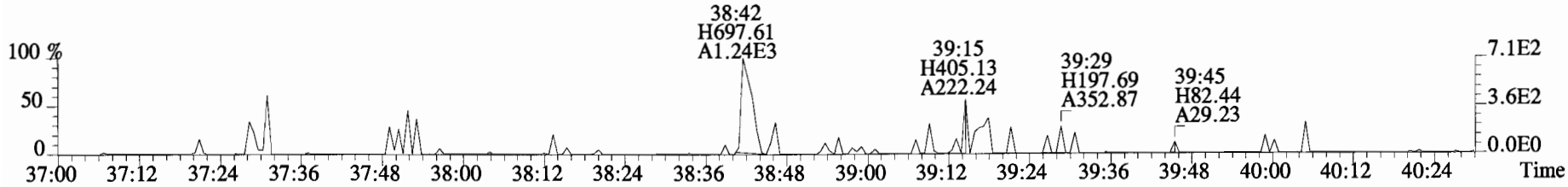


File:141022D1 #1-326 Acq:22-OCT-2014 17:56:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BLK1 Method Blank 1 Exp:OCDD_DB5

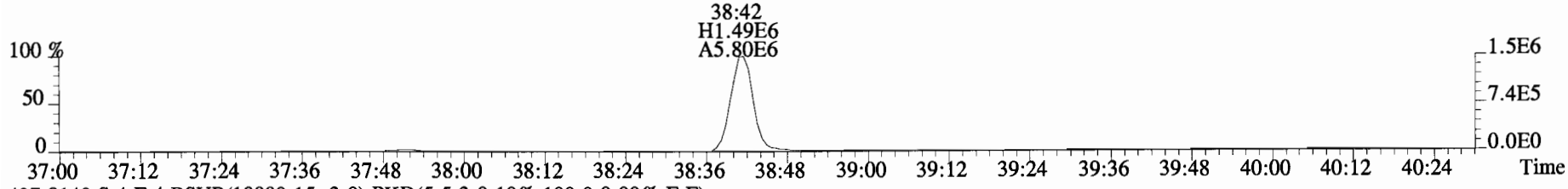
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



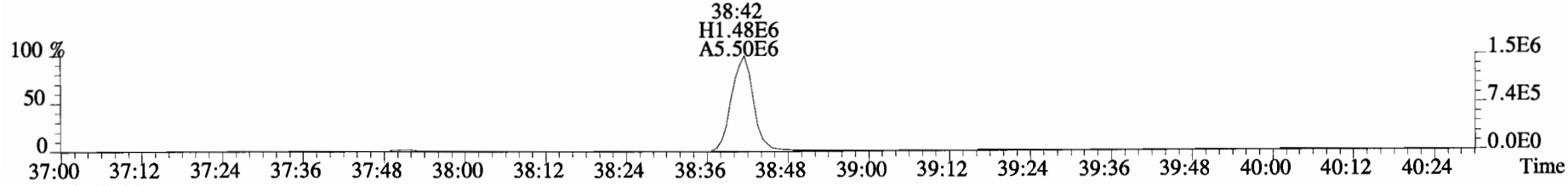
425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



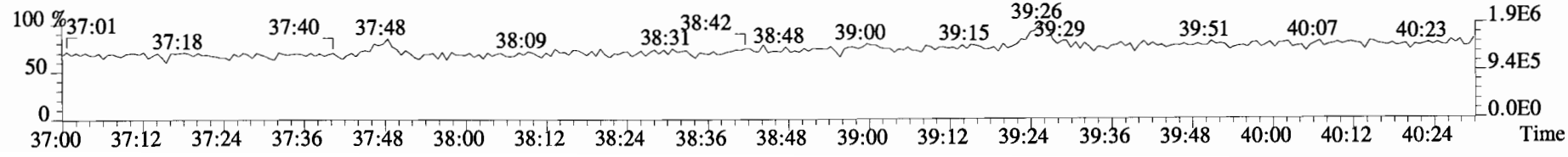
435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

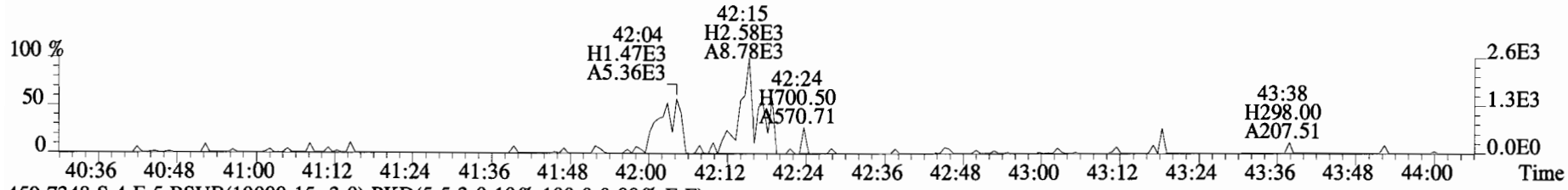


430.9728 S:4 F:4

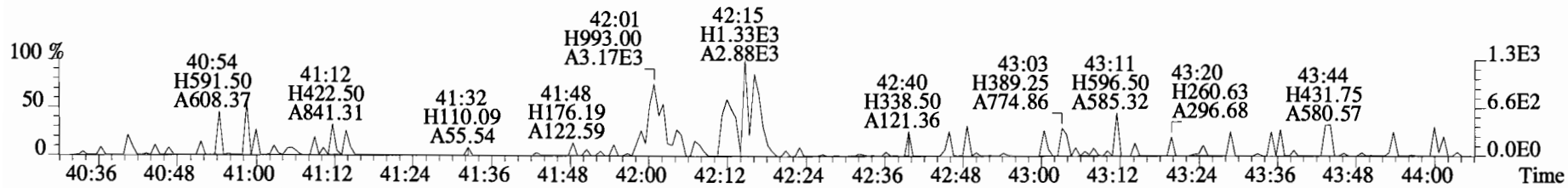


File:141022D1 #1-388 Acq:22-OCT-2014 17:56:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BLK1 Method Blank 1 Exp:OCDD_DB5

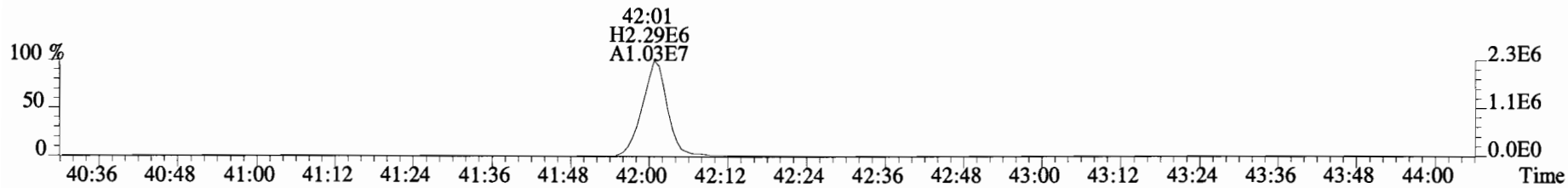
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



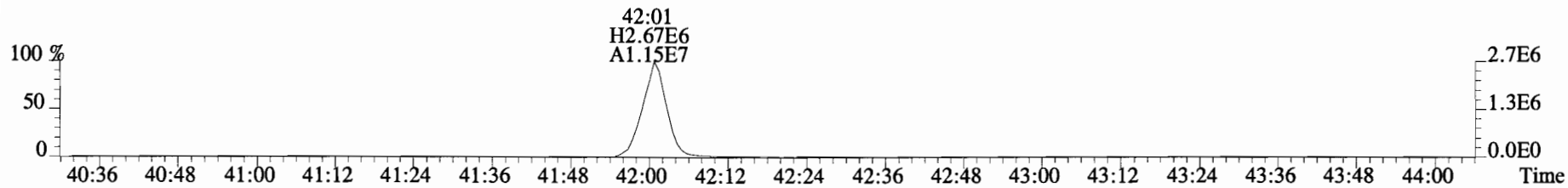
459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



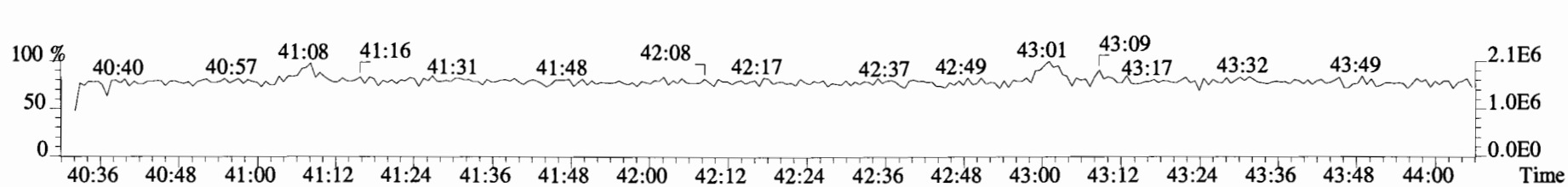
469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



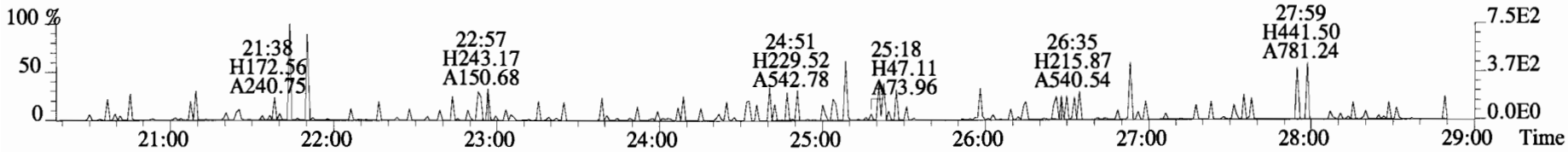
471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



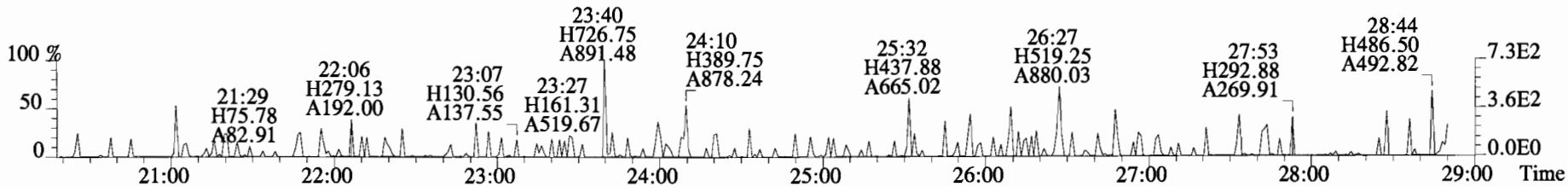
454.9728 S:4 F:5



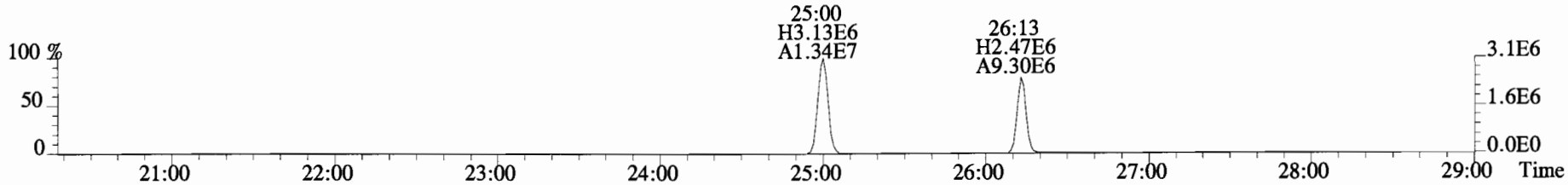
File:141022D1 #1-551 Acq:22-OCT-2014 17:56:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BLK1 Method Blank 1 Exp:OCDD_DB5
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



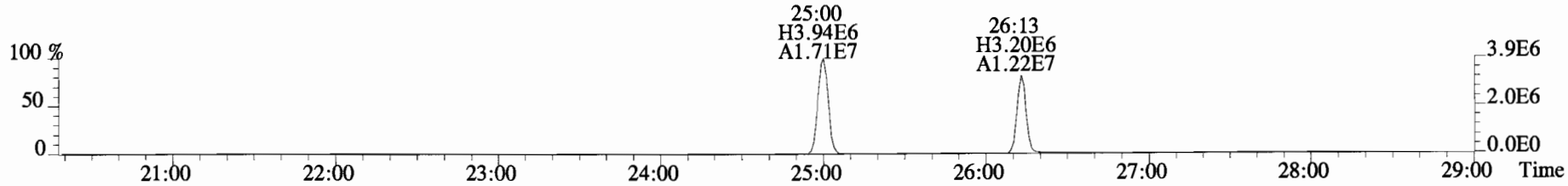
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



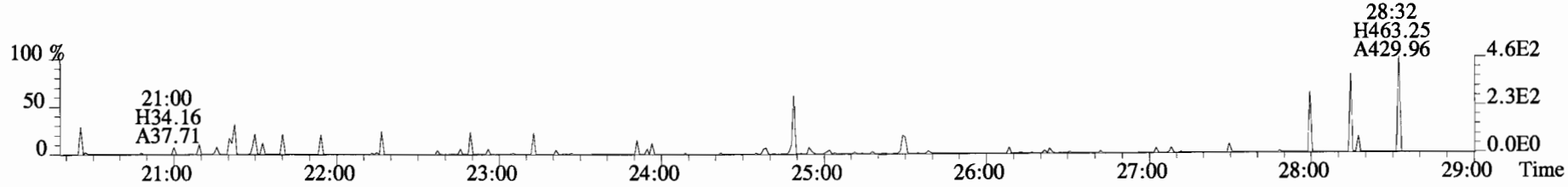
315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



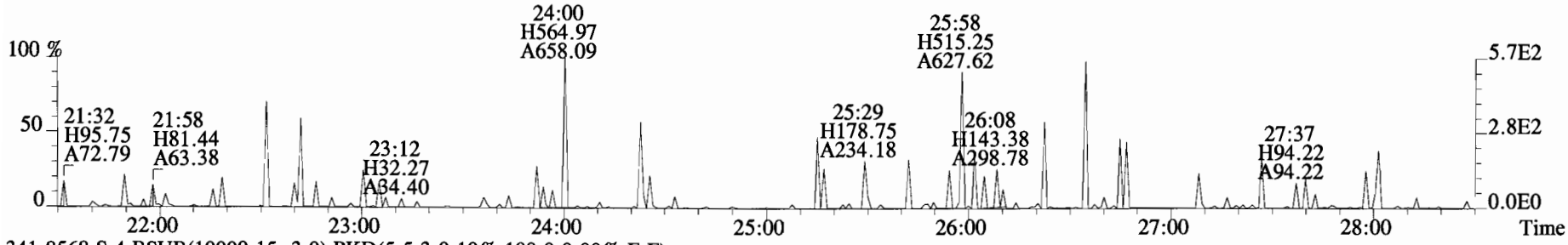
317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



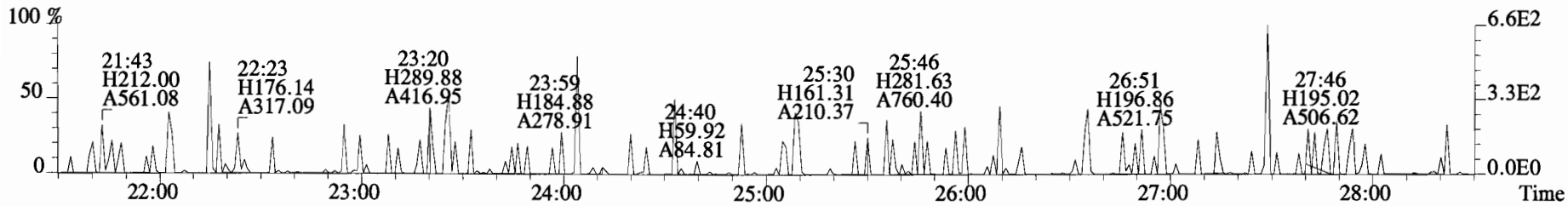
375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



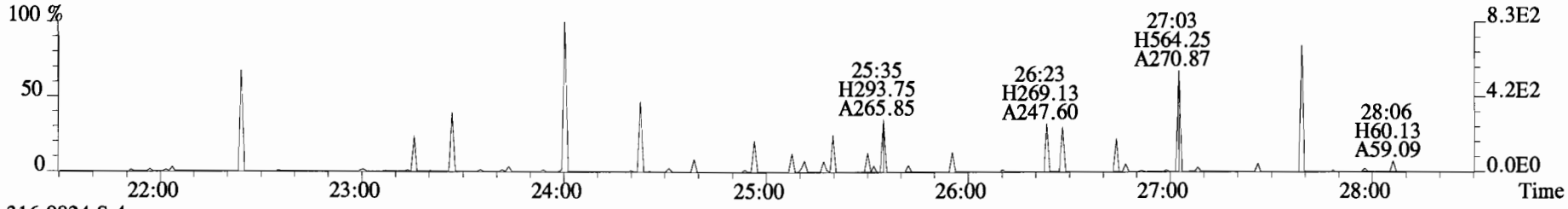
File:141022D1 #1-551 Acq:22-OCT-2014 17:56:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BLK1 Method Blank 1 Exp:OCDD_DB5
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



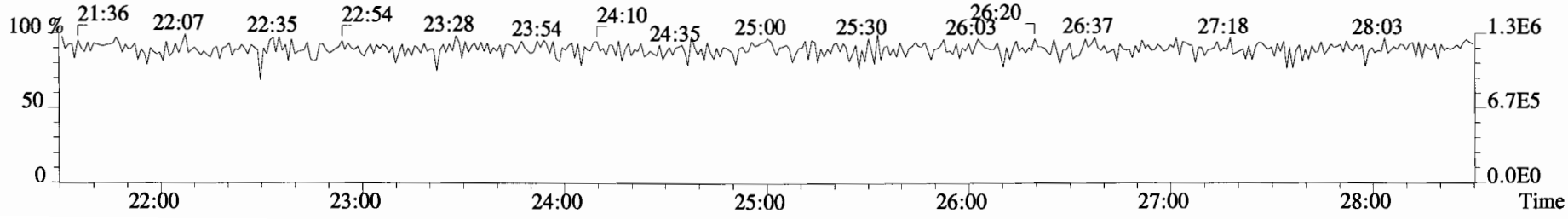
341.8568 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



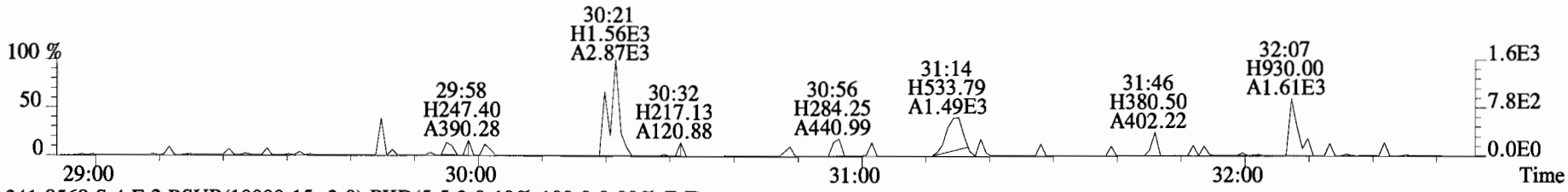
409.7974 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



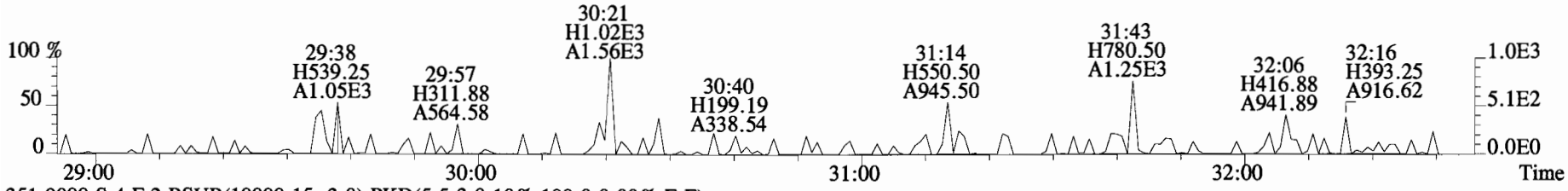
316.9824 S:4



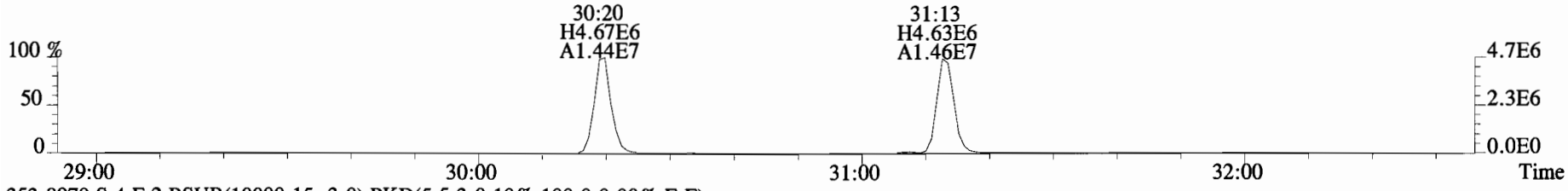
File:141022D1 #1-257 Acq:22-OCT-2014 17:56:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BLK1 Method Blank 1 Exp:OCDD_DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



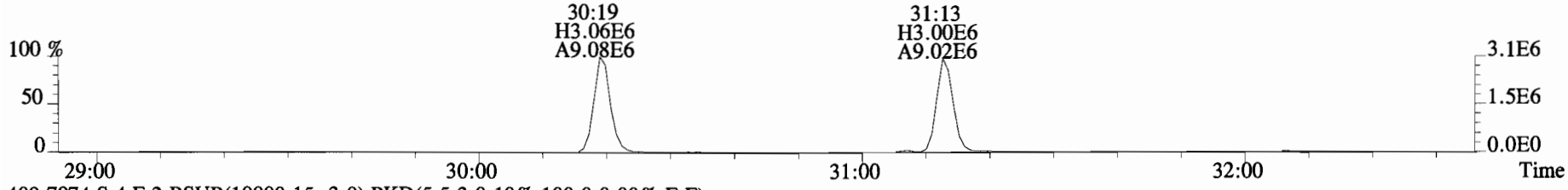
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



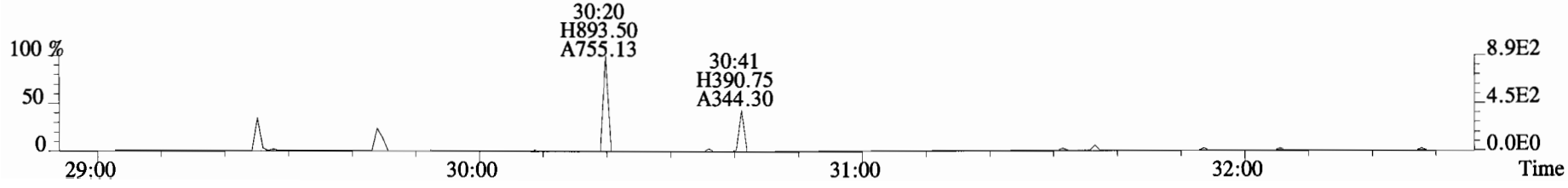
351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

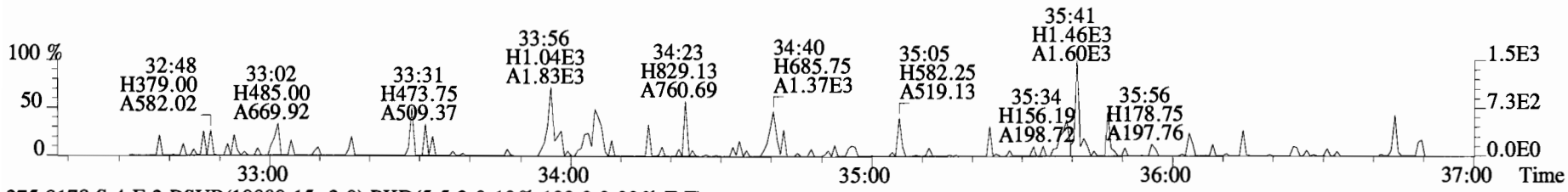


409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

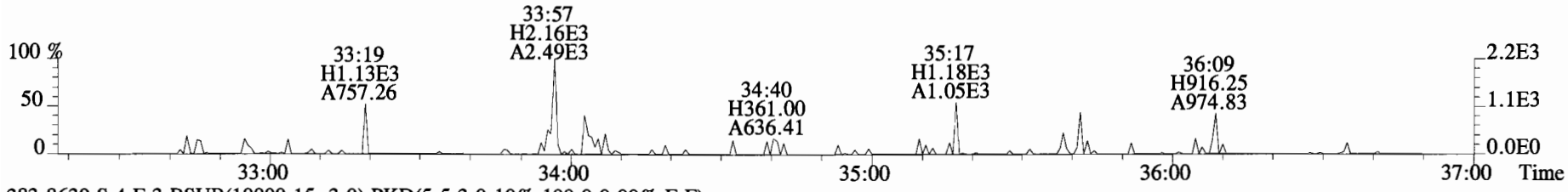


File:141022D1 #1-385 Acq:22-OCT-2014 17:56:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BLK1 Method Blank 1 Exp:OCDD_DB5

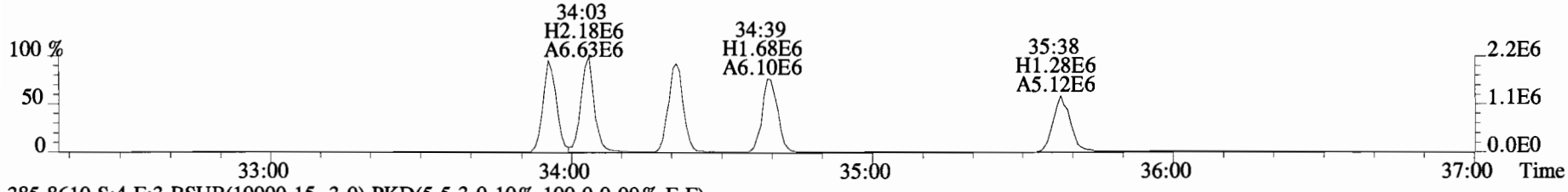
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



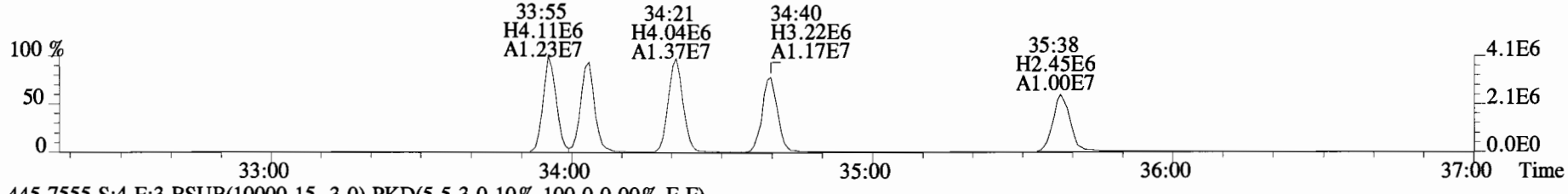
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



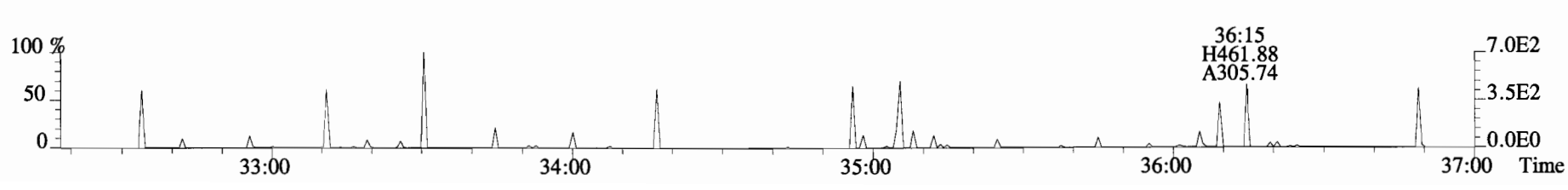
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



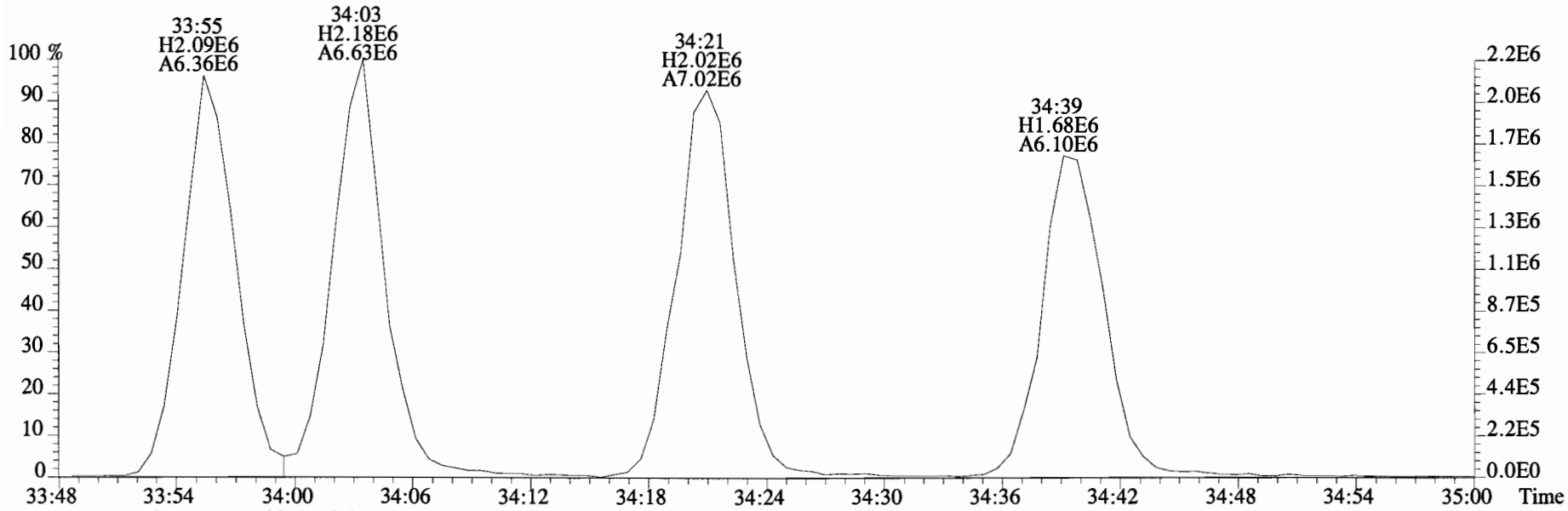
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



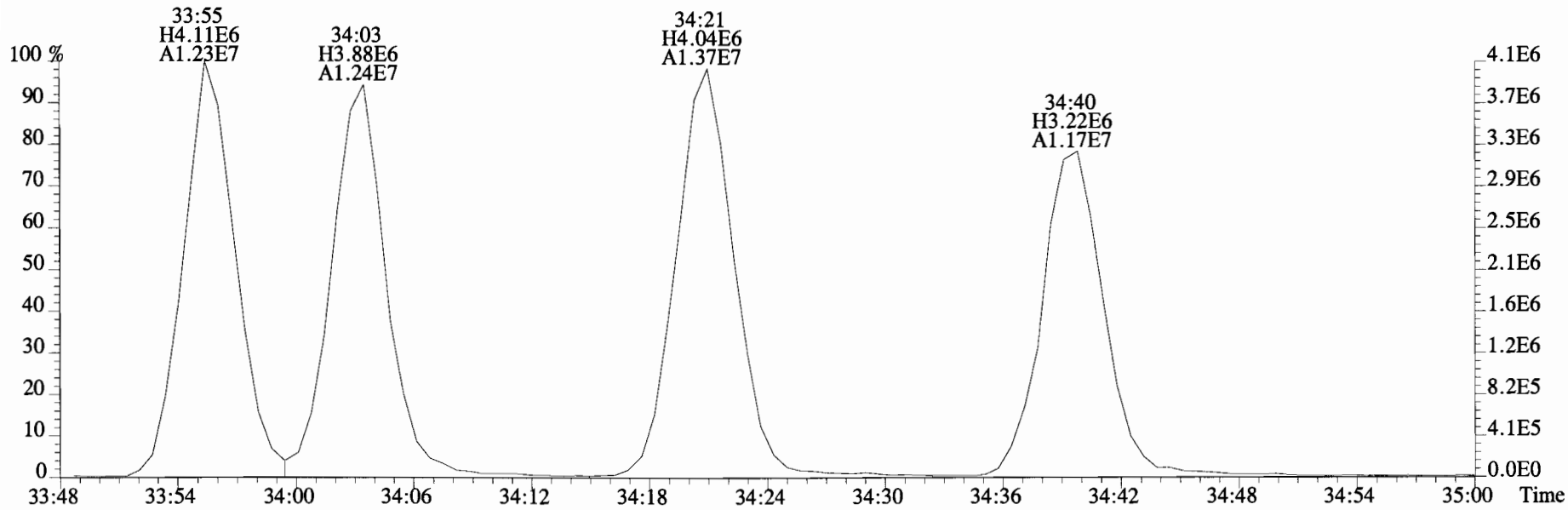
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



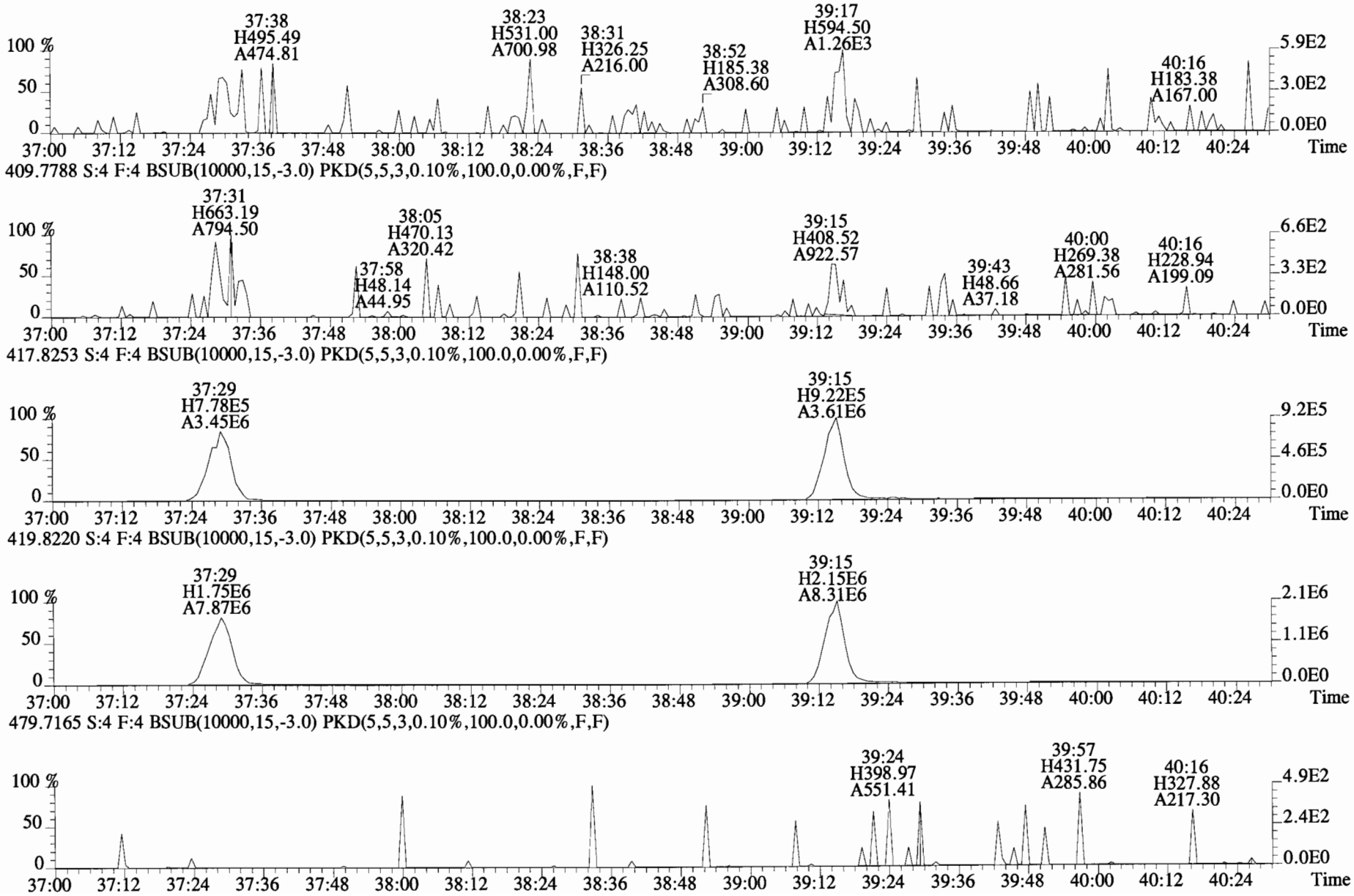
File:141022D1 #1-385 Acq:22-OCT-2014 17:56:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BLK1 Method Blank 1 Exp:OCDD_DB5
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



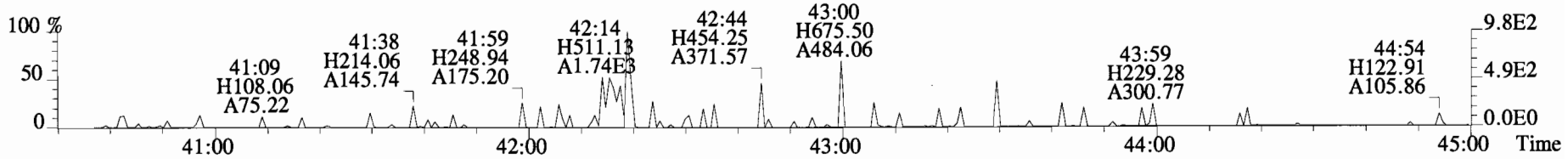
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



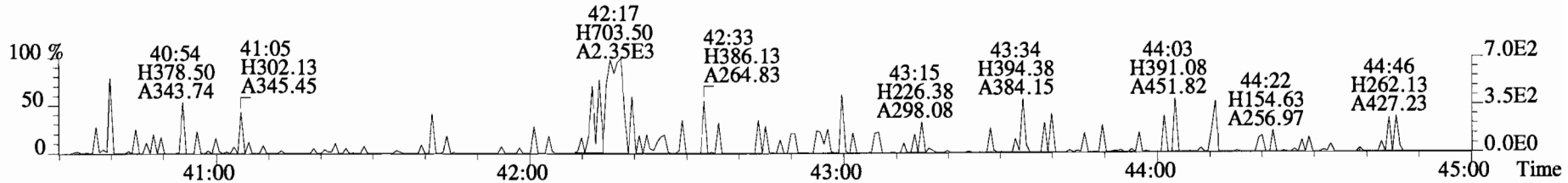
File:141022D1 #1-326 Acq:22-OCT-2014 17:56:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BLK1 Method Blank 1 Exp:OCDD_DB5



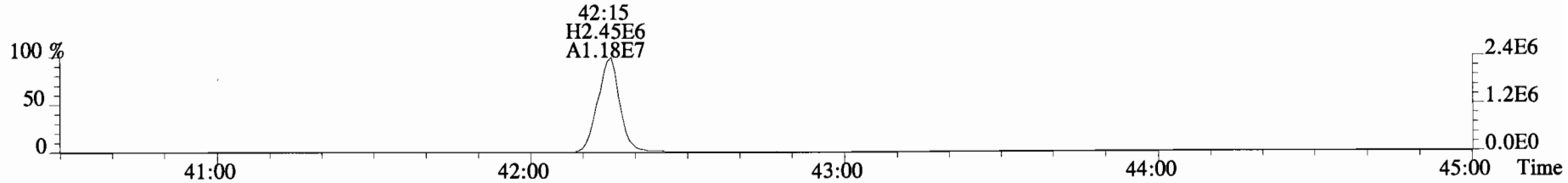
File:141022D1 #1-388 Acq:22-OCT-2014 17:56:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BLK1 Method Blank 1 Exp:OCDD_DB5
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



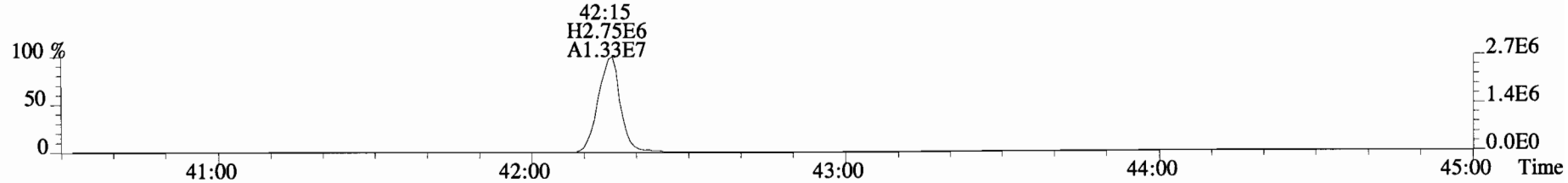
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



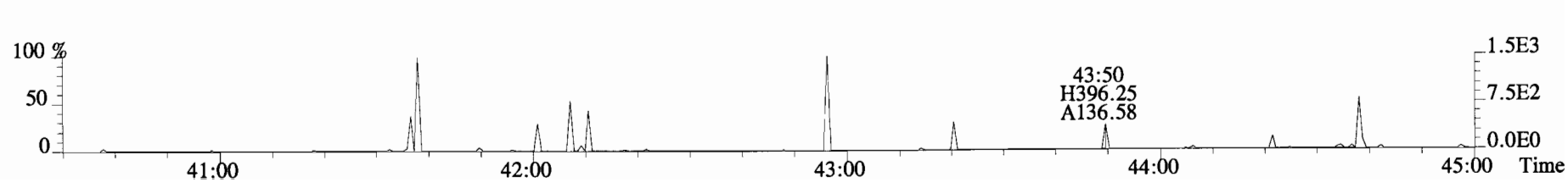
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



FORM 8A
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory Extraction Batch: B4J0106-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS OPR Data Filename: 141022D1-2

Ext. Date: 10-20-14 Shift: Day Analysis Date: 22-OCT-14 Time: 16:19:38

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

NATIVE ANALYTES	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
2,3,7,8-TCDD	10	8.86	6.7 - 15.8 7.3 - 14.6 (2)
1,2,3,7,8-PeCDD	50	48.1	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	45.9	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	47.5	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	48.1	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	47.9	35.0 - 70.0
OCDD	100	94.1	78.0 - 144.0
2,3,7,8-TCDF	10	8.81	7.5 - 15.8 8.0 - 14.7 (2)
1,2,3,7,8-PeCDF	50	46.5	40.0 - 67.0
2,3,4,7,8-PeCDF	50	47.1	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	46.5	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	46.6	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	46.3	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	46.9	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	46.3	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	46.7	39.0 - 69.0
OCDF	100	95.5	63.0 - 170.0

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. 10/94

(2) Contract-required concentration limits for OPR as specified in Table 6a, Method 1613. 10/94

Analyst: MJ

Date: 10/23/14

FORM 8B
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory Extraction Batch: B4J0106-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS OPR Data Filename: 141022D1-2

Ext. Date: 10-20-14 Shift: Day Analysis Date: 22-OCT-14 Time: 16:19:38

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

LABELED COMPOUNDS	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
13C-2,3,7,8-TCDD	100	72.2	20.0 - 175.0
			25.0 - 141.0 (2)
13C-1,2,3,7,8-PeCDD	100	71.6	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	75.9	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	78.0	25.0 - 163.0
13C-1,2,3,7,8,9-HxCDD	100	74.4	21.0 - 193.0
13C-1,2,3,4,6,7,8-HpCDD	100	76.9	26.0 - 166.0
13C-OCDD	200	130	26.0 - 397.0
13C-2,3,7,8-TCDF	100	71.2	22.0 - 152.0
			26.0 - 126.0 (2)
13C-1,2,3,7,8-PeCDF	100	70.6	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	68.6	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	82.1	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	74.7	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	73.9	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	77.0	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	72.2	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	72.0	20.0 - 186.0
13C-OCDF	200	136	26.0 - 397.0
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	33.2	12.4 - 76.4

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. 10/94

(2) Contract-required concentration limits for OPR as specified in Table 6a, Method 1613. 10/94

Analyst: MJ

Date: 10/23/14

Client ID: OPR Filename: 141022D1 S:2 Acq:22-OCT-14 16:19:38 ConCal: ST141022D1-1
Lab ID: B4J0106-BS1 GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 1.000 EndCAL: NA

	Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	1.60e+06	0.73 y	1.18	27:01	1.001	8.8600		*	2.5	*
	1,2,3,7,8-PeCDD	7.71e+06	0.60 y	0.92	31:31	1.001	48.092		*	2.5	*
	1,2,3,4,7,8-HxCDD	6.27e+06	1.25 y	1.09	34:50	1.000	45.922		*	2.5	*
	1,2,3,6,7,8-HxCDD	6.64e+06	1.25 y	1.07	34:57	1.000	47.534		*	2.5	*
	1,2,3,7,8,9-HxCDD	6.50e+06	1.28 y	0.93	35:15	1.000	48.115		*	2.5	*
	1,2,3,4,6,7,8-HpCDD	6.03e+06	1.05 y	1.12	38:42	1.000	47.891		*	2.5	*
	OCDD	1.03e+07	0.89 y	0.95	42:02	1.000	94.066		*	2.5	*
	2,3,7,8-TCDF	2.12e+06	0.78 y	1.08	26:14	1.001	8.8127		*	2.5	*
	1,2,3,7,8-PeCDF	1.15e+07	1.59 y	1.09	30:20	1.000	46.532		*	2.5	*
	2,3,4,7,8-PeCDF	1.11e+07	1.57 y	1.04	31:14	1.000	47.103		*	2.5	*
	1,2,3,4,7,8-HxCDF	1.20e+07	1.28 y	1.39	33:57	1.000	46.509		*	2.5	*
	1,2,3,6,7,8-HxCDF	1.10e+07	1.27 y	1.26	34:05	1.001	46.589		*	2.5	*
	2,3,4,6,7,8-HxCDF	1.05e+07	1.29 y	1.30	34:41	1.001	46.325		*	2.5	*
	1,2,3,7,8,9-HxCDF	8.41e+06	1.26 y	1.19	35:39	1.001	46.887		*	2.5	*
	1,2,3,4,6,7,8-HpCDF	8.80e+06	1.09 y	1.62	37:30	1.001	46.325		*	2.5	*
	1,2,3,4,7,8,9-HpCDF	8.28e+06	1.05 y	1.53	39:16	1.000	46.699		*	2.5	*
	OCDF	1.43e+07	0.91 y	1.10	42:16	1.000	95.455		*	2.5	*
IS	13C-2,3,7,8-TCDD	1.52e+07	0.80 y	1.07	26:60	1.022	72.197				Rec 72.2
IS	13C-1,2,3,7,8-PeCDD	1.74e+07	0.63 y	1.24	31:30	1.192	71.554				71.6
IS	13C-1,2,3,4,7,8-HxCDD	1.26e+07	1.25 y	0.72	34:50	1.014	75.946				75.9
IS	13C-1,2,3,6,7,8-HxCDD	1.31e+07	1.25 y	0.74	34:56	1.017	78.001				78.0
IS	13C-1,2,3,7,8,9-HxCDD	1.45e+07	1.24 y	0.86	35:15	1.026	74.391				74.4
IS	13C-1,2,3,4,6,7,8-HpCDD	1.13e+07	1.05 y	0.64	38:41	1.126	76.875				76.9
IS	13C-OCDD	2.31e+07	0.87 y	0.78	42:01	1.223	129.58				64.8
IS	13C-2,3,7,8-TCDF	2.23e+07	0.78 y	0.92	26:14	0.992	71.247				71.2
IS	13C-1,2,3,7,8-PeCDF	2.27e+07	1.58 y	0.95	30:19	1.147	70.629				70.6
IS	13C-2,3,4,7,8-PeCDF	2.26e+07	1.58 y	0.97	31:13	1.181	68.632				68.6
IS	13C-1,2,3,4,7,8-HxCDF	1.86e+07	0.50 y	0.99	33:56	0.988	82.145				82.1
IS	13C-1,2,3,6,7,8-HxCDF	1.87e+07	0.53 y	1.10	34:03	0.991	74.684				74.7
IS	13C-2,3,4,6,7,8-HxCDF	1.74e+07	0.52 y	1.03	34:40	1.009	73.912				73.9
IS	13C-1,2,3,7,8,9-HxCDF	1.51e+07	0.51 y	0.86	35:38	1.037	76.975				77.0
IS	13C-1,2,3,4,6,7,8-HpCDF	1.18e+07	0.44 y	0.71	37:29	1.091	72.231				72.2
IS	13C-1,2,3,4,7,8,9-HpCDF	1.16e+07	0.42 y	0.71	39:15	1.142	71.977				72.0
IS	13C-OCDF	2.72e+07	0.90 y	0.87	42:15	1.230	136.39				68.2
C/Up	37Cl-2,3,7,8-TCDD	7.92e+06		1.21	27:01	1.022	33.214				83.0
RS/RT	13C-1,2,3,4-TCDD	1.97e+07	0.81 y	1.00	26:26	*	100.00				
RS	13C-1,2,3,4-TCDF	3.39e+07	0.75 y	1.00	25:00	*	100.00				
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.28e+07	0.52 y	1.00	34:21	*	100.00				

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	9.19	9.23		*	*
Total Penta-Dioxins	48.3	48.3		*	*
Total Hexa-Dioxins	142	143		*	*
Total Hepta-Dioxins	48.6	49.3		*	*
Total Tetra-Furans	8.88	9.10		*	*
Total Penta-Furans	95.322	95.723		*	*
Total Hexa-Furans	186	187		*	*
Total Hepta-Furans	93.1	94.4		*	*

Integrations by Analyst: [signature] Date: 10/23/14

Reviewed by Analyst: [signature] Date: 10/24/14

	Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	1.60e+06	0.73 y	1.18	27:01	1.001	177.20		*	2.5	*
	1,2,3,7,8-PeCDD	7.71e+06	0.60 y	0.92	31:31	1.001	961.84		*	2.5	*
	1,2,3,4,7,8-HxCDD	6.27e+06	1.25 y	1.09	34:50	1.000	918.45		*	2.5	*
	1,2,3,6,7,8-HxCDD	6.64e+06	1.25 y	1.07	34:57	1.000	950.69		*	2.5	*
	1,2,3,7,8,9-HxCDD	6.50e+06	1.28 y	0.93	35:15	1.000	962.29		*	2.5	*
	1,2,3,4,6,7,8-HpCDD	6.03e+06	1.05 y	1.12	38:42	1.000	957.81		*	2.5	*
	OCDD	1.03e+07	0.89 y	0.95	42:02	1.000	1881.3		*	2.5	*
	2,3,7,8-TCDF	2.12e+06	0.78 y	1.08	26:14	1.001	176.25		*	2.5	*
	1,2,3,7,8-PeCDF	1.15e+07	1.59 y	1.09	30:20	1.000	930.64		*	2.5	*
	2,3,4,7,8-PeCDF	1.11e+07	1.57 y	1.04	31:14	1.000	942.06		*	2.5	*
	1,2,3,4,7,8-HxCDF	1.20e+07	1.28 y	1.39	33:57	1.000	930.17		*	2.5	*
	1,2,3,6,7,8-HxCDF	1.10e+07	1.27 y	1.26	34:05	1.001	931.77		*	2.5	*
	2,3,4,6,7,8-HxCDF	1.05e+07	1.29 y	1.30	34:41	1.001	926.50		*	2.5	*
	1,2,3,7,8,9-HxCDF	8.41e+06	1.26 y	1.19	35:39	1.001	937.73		*	2.5	*
	1,2,3,4,6,7,8-HpCDF	8.80e+06	1.09 y	1.62	37:30	1.001	926.50		*	2.5	*
	1,2,3,4,7,8,9-HpCDF	8.28e+06	1.05 y	1.53	39:16	1.000	933.97		*	2.5	*
	OCDF	1.43e+07	0.91 y	1.10	42:16	1.000	1909.1		*	2.5	*
IS	13C-2,3,7,8-TCDD	1.52e+07	0.80 y	1.07	26:60	1.022	1443.9				
IS	13C-1,2,3,7,8-PeCDD	1.74e+07	0.63 y	1.24	31:30	1.192	1431.1				
IS	13C-1,2,3,4,7,8-HxCDD	1.26e+07	1.25 y	0.72	34:50	1.014	1518.9				
IS	13C-1,2,3,6,7,8-HxCDD	1.31e+07	1.25 y	0.74	34:56	1.017	1560.0				
IS	13C-1,2,3,7,8,9-HxCDD	1.45e+07	1.24 y	0.86	35:15	1.026	1487.8				
IS	13C-1,2,3,4,6,7,8-HpCDD	1.13e+07	1.05 y	0.64	38:41	1.126	1537.5				
IS	13C-OCDD	2.31e+07	0.87 y	0.78	42:01	1.223	2591.5				
IS	13C-2,3,7,8-TCDF	2.23e+07	0.78 y	0.92	26:14	0.992	1424.9				
IS	13C-1,2,3,7,8-PeCDF	2.27e+07	1.58 y	0.95	30:19	1.147	1412.6				
IS	13C-2,3,4,7,8-PeCDF	2.26e+07	1.58 y	0.97	31:13	1.181	1372.6				
IS	13C-1,2,3,4,7,8-HxCDF	1.86e+07	0.50 y	0.99	33:56	0.988	1642.9				
IS	13C-1,2,3,6,7,8-HxCDF	1.87e+07	0.53 y	1.10	34:03	0.991	1493.7				
IS	13C-2,3,4,6,7,8-HxCDF	1.74e+07	0.52 y	1.03	34:40	1.009	1478.2				
IS	13C-1,2,3,7,8,9-HxCDF	1.51e+07	0.51 y	0.86	35:38	1.037	1539.5				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.18e+07	0.44 y	0.71	37:29	1.091	1444.6				
IS	13C-1,2,3,4,7,8,9-HpCDF	1.16e+07	0.42 y	0.71	39:15	1.142	1439.5				
IS	13C-OCDF	2.72e+07	0.90 y	0.87	42:15	1.230	2727.8				
C/Up	37Cl-2,3,7,8-TCDD	7.92e+06		1.21	27:01	1.022	664.29				
RS/RT	13C-1,2,3,4-TCDD	1.97e+07	0.81 y	1.00	26:26	*	2000.0				
RS	13C-1,2,3,4-TCDF	3.39e+07	0.75 y	1.00	25:00	*	2000.0				
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.28e+07	0.52 y	1.00	34:21	*	2000.0				

	Rec	Qual
IS	72.2	
IS	71.6	
IS	75.9	
IS	78.0	
IS	74.4	
IS	76.9	
IS	64.8	
IS	71.2	
IS	70.6	
IS	68.6	
IS	82.1	
IS	74.7	
IS	73.9	
IS	77.0	
IS	72.2	
IS	72.0	
IS	68.2	
C/Up	83.0	

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	184	185		*	*
Total Penta-Dioxins	966	966		*	*
Total Hexa-Dioxins	2840	2860		*	*
Total Hepta-Dioxins	971	985		*	*
Total Tetra-Furans	178	182		*	*
Total Penta-Furans	1906.4	1914.5		*	*
Total Hexa-Furans	3730	3750		*	*
Total Hepta-Furans	1860	1890		*	*

Integrations by Analyst: MM

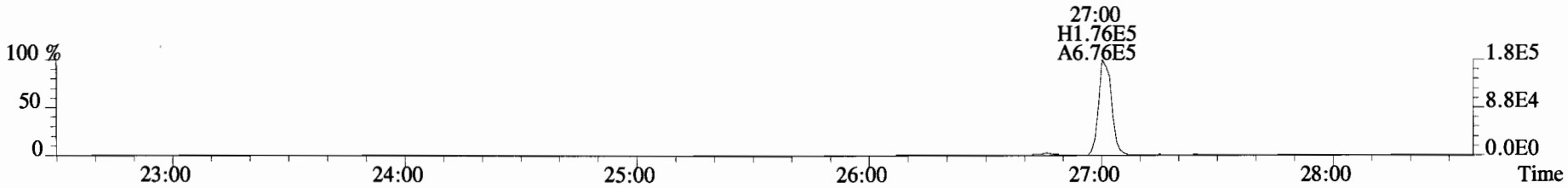
Date: 10/23/14

Reviewed by Analyst: _____

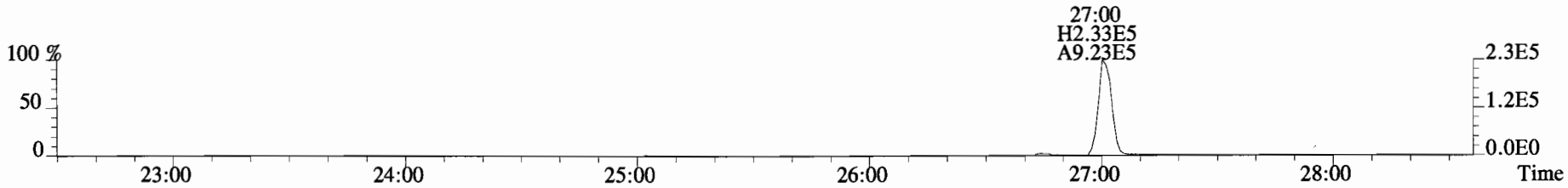
Date: _____

File:141022D1 #1-551 Acq:22-OCT-2014 16:19:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BS1 OPR 1 Exp:OCDD_DB5

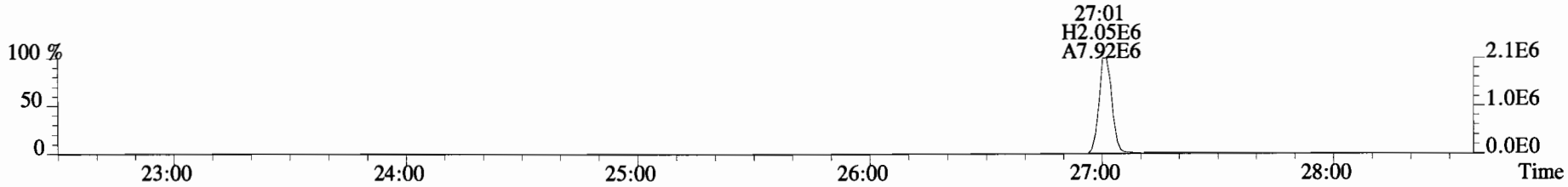
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



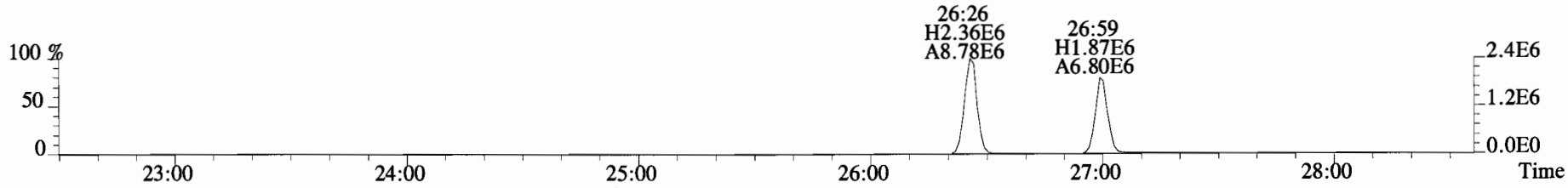
321.8936 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



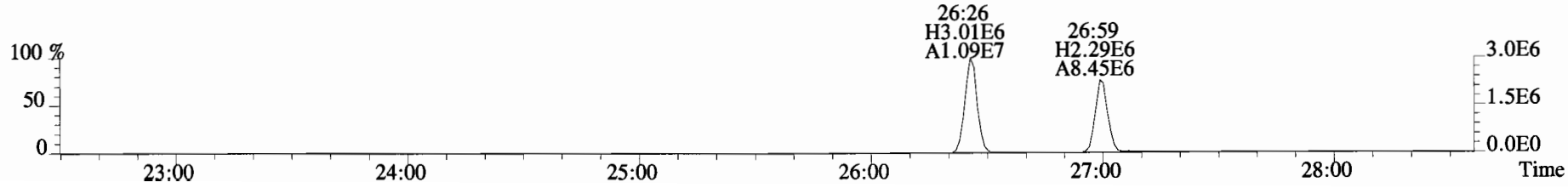
327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



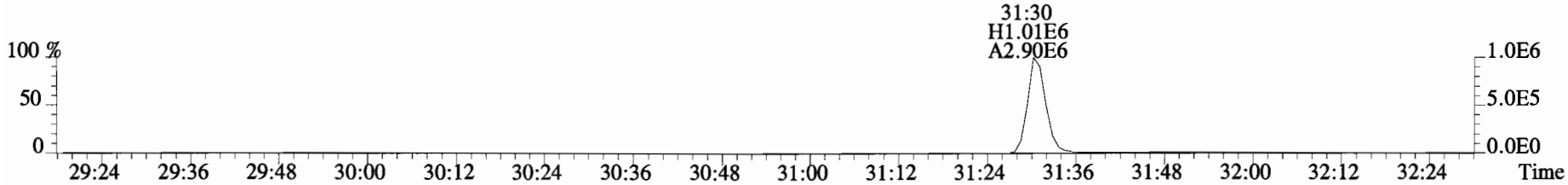
331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



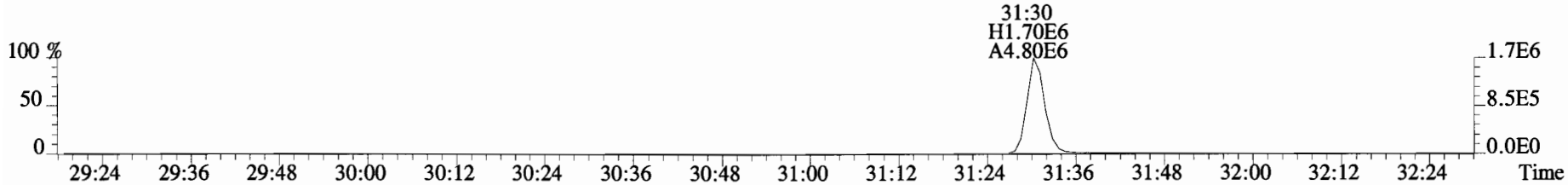
333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



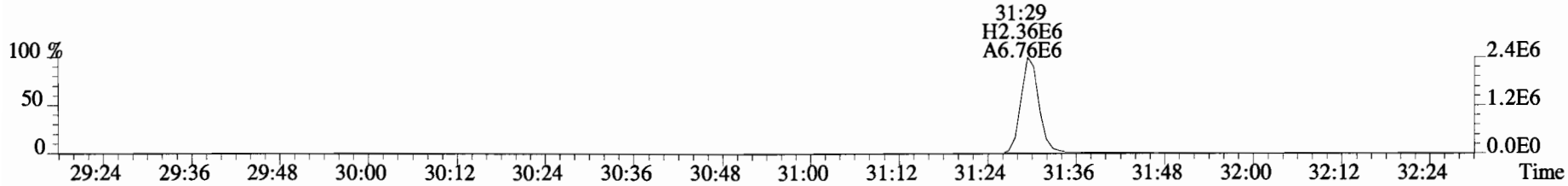
File:141022D1 #1-257 Acq:22-OCT-2014 16:19:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BS1 OPR 1 Exp:OCDD_DB5
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



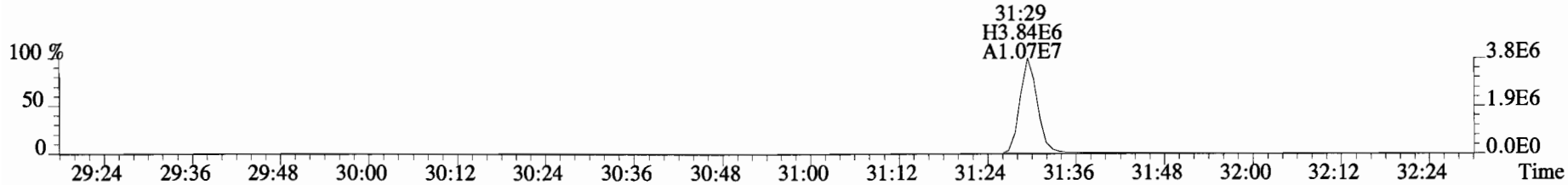
355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



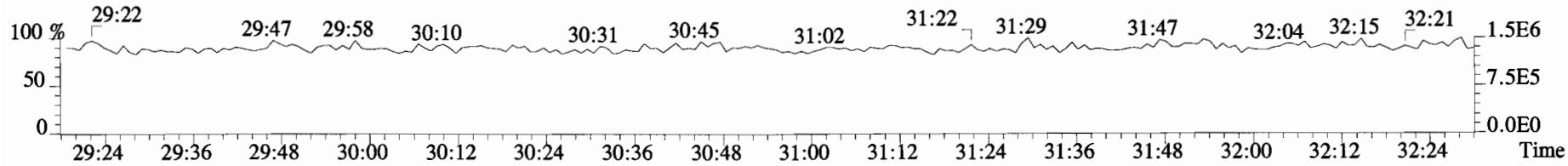
365.8978 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



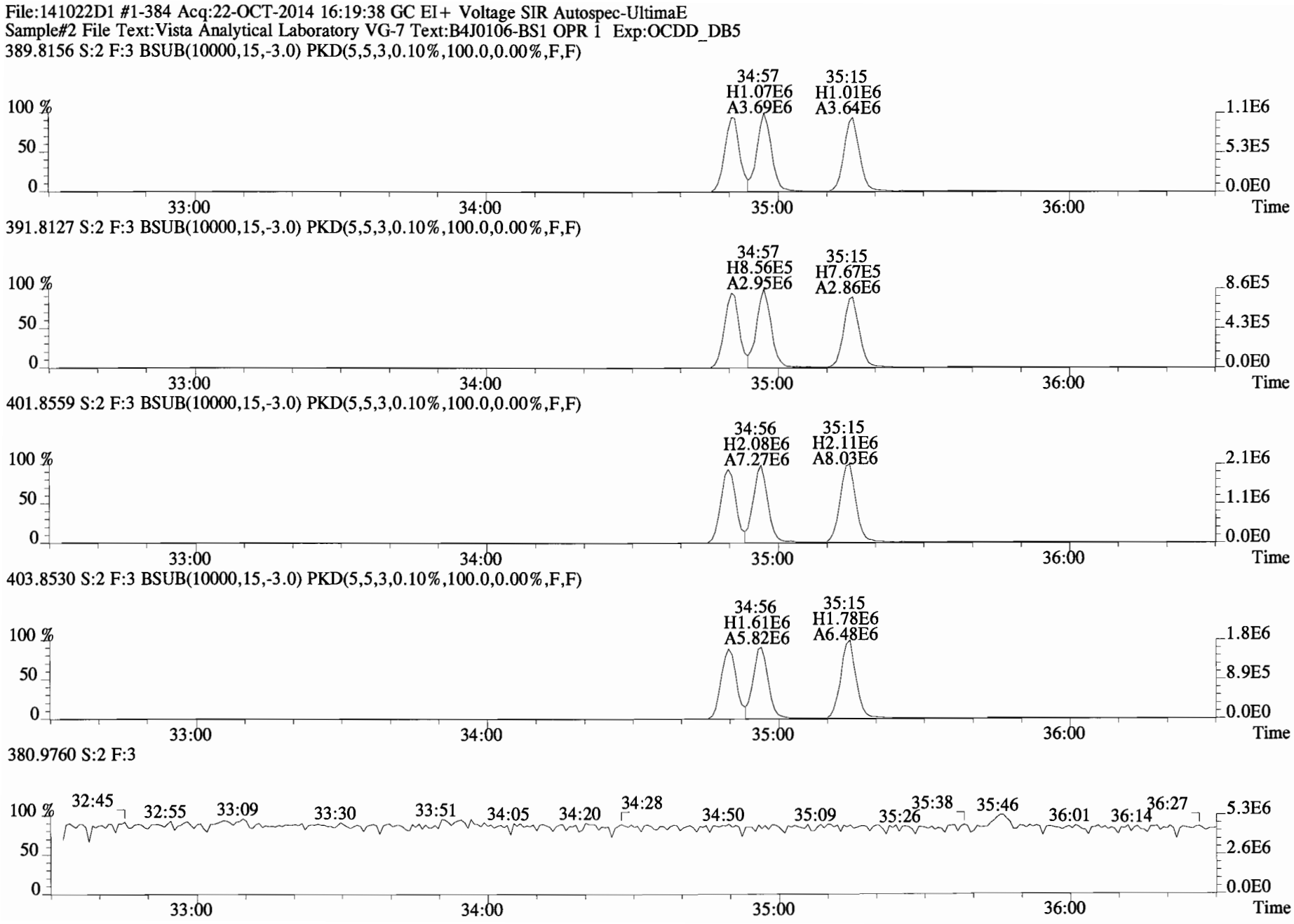
367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



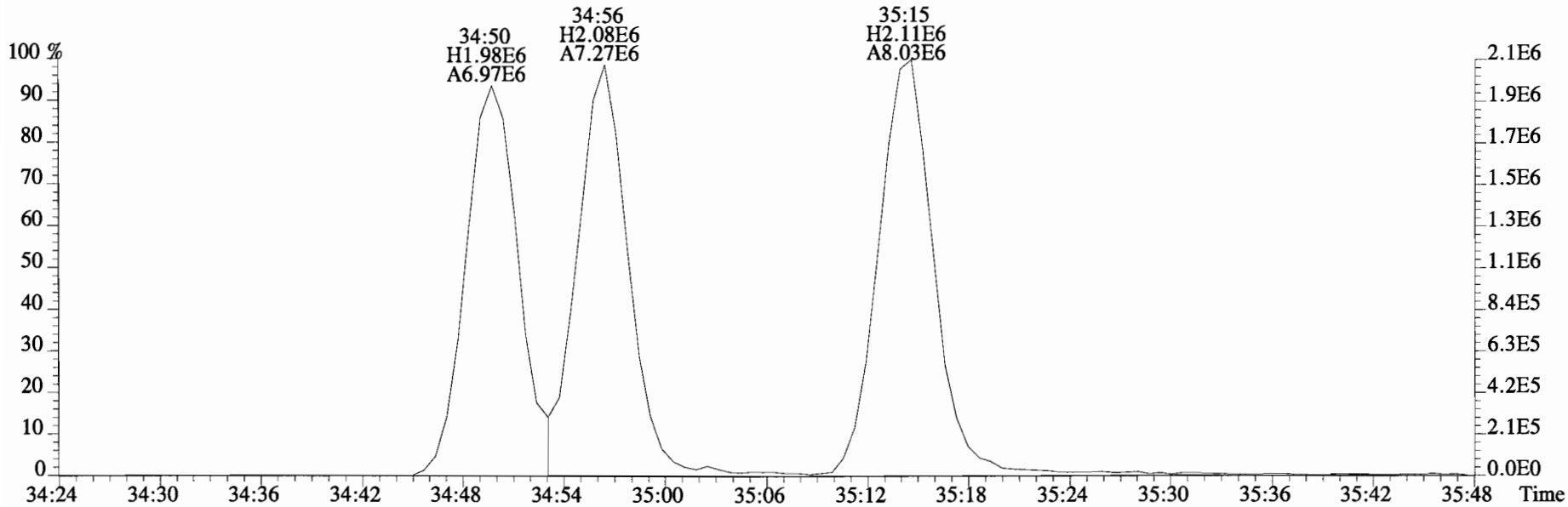
366.9792 S:2 F:2



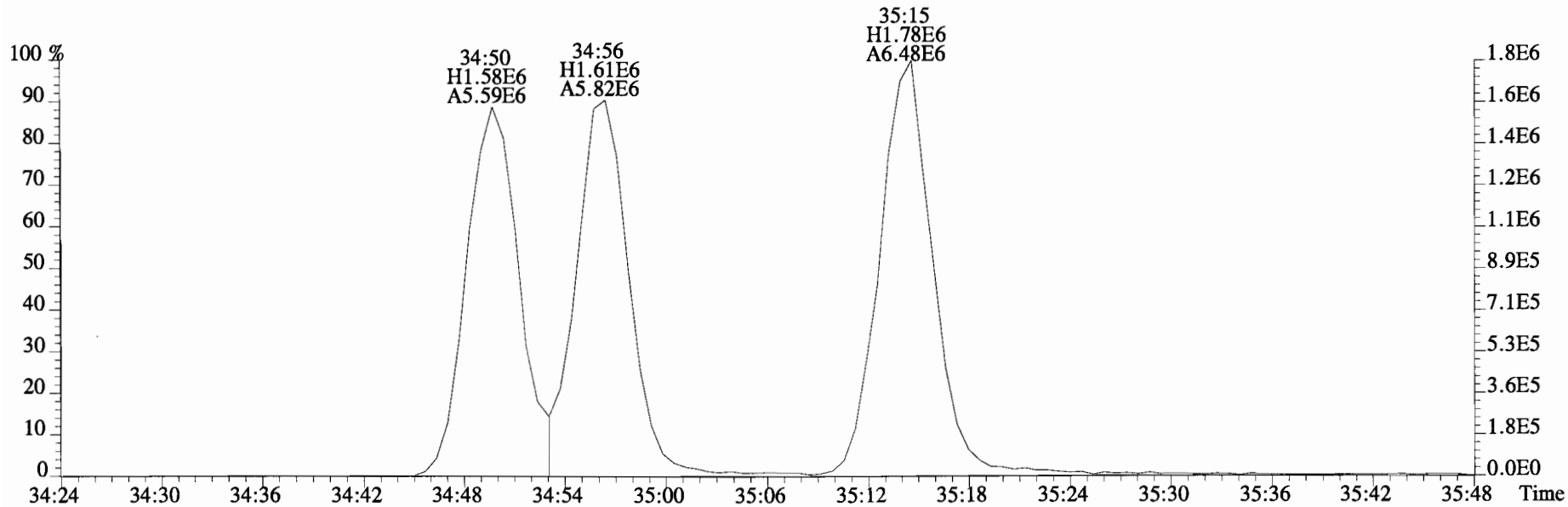
File:141022D1 #1-384 Acq:22-OCT-2014 16:19:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BS1 OPR 1 Exp:OCDD_DB5



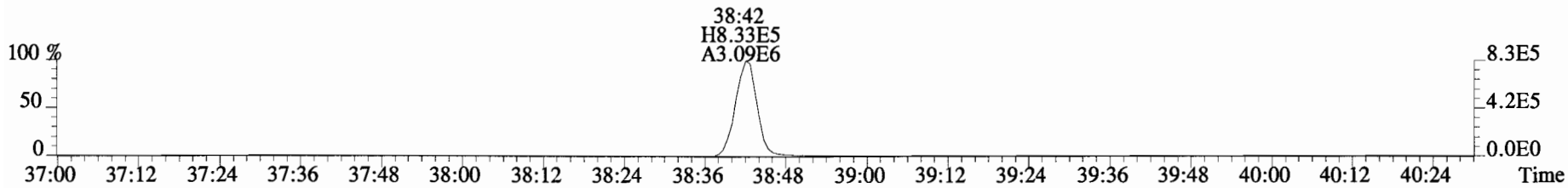
File:141022D1 #1-384 Acq:22-OCT-2014 16:19:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BS1 OPR 1 Exp:OCDD_DB5
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



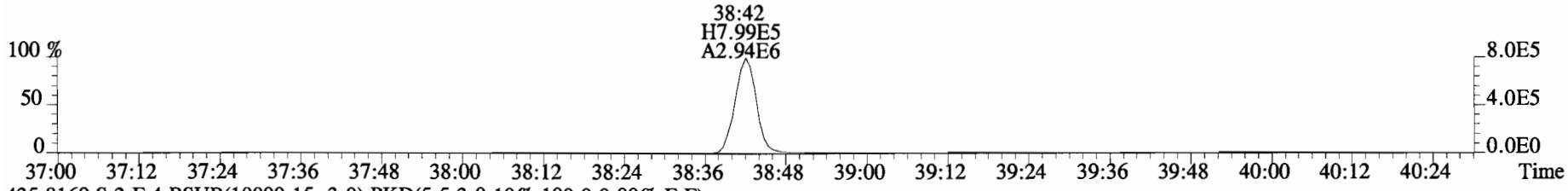
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



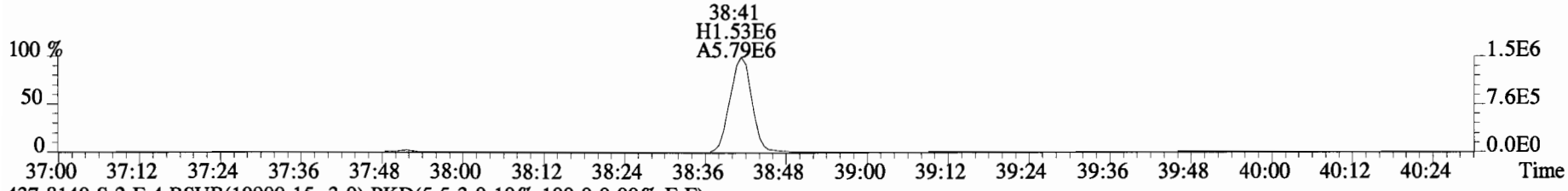
File:141022D1 #1-326 Acq:22-OCT-2014 16:19:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BS1 OPR 1 Exp:OCDD_DB5
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



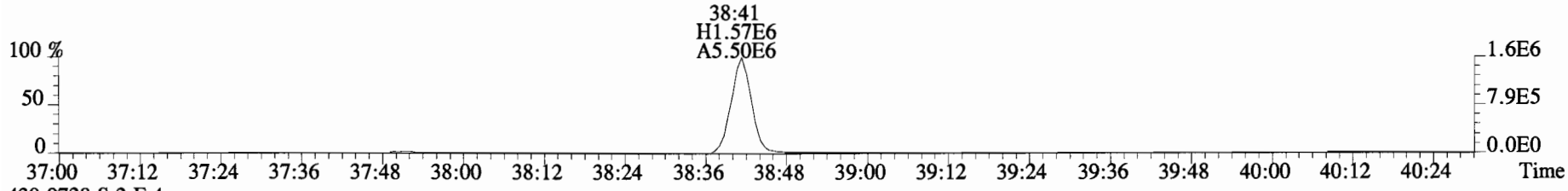
425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



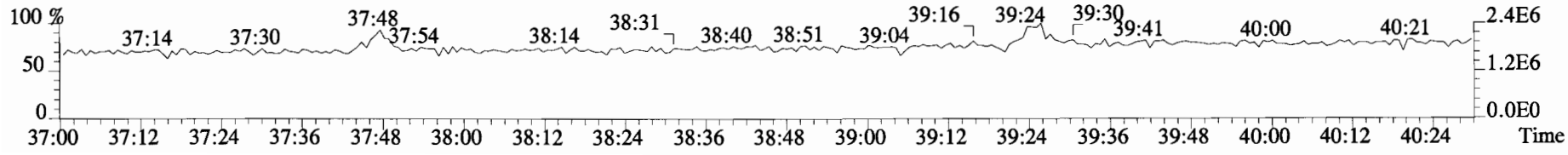
435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



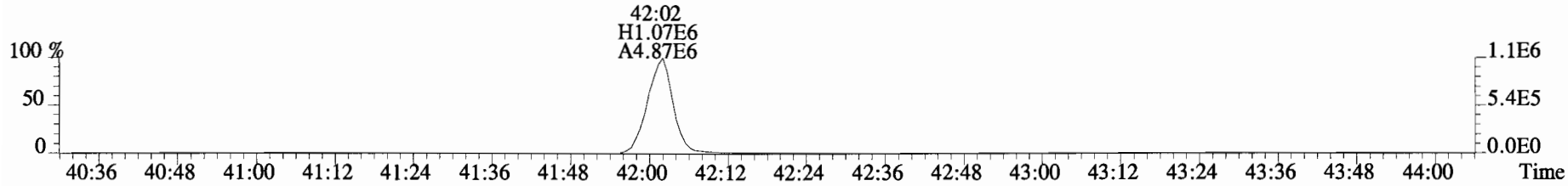
437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



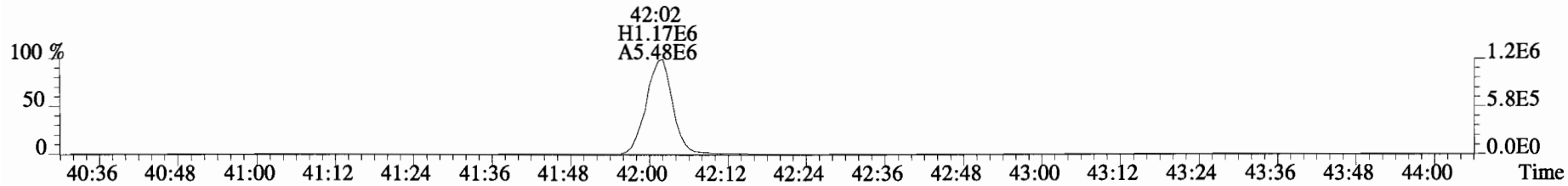
430.9728 S:2 F:4



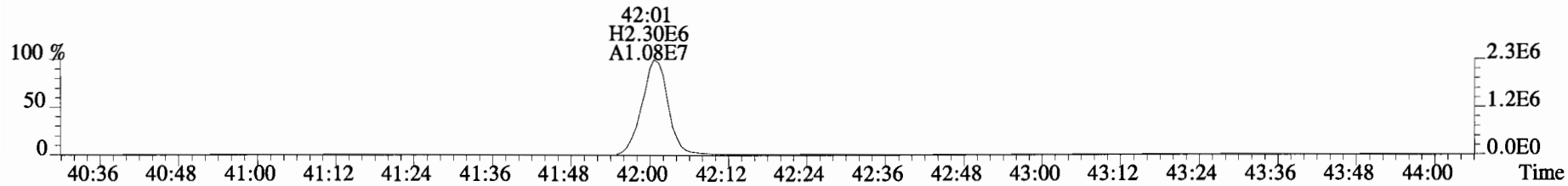
File:141022D1 #1-388 Acq:22-OCT-2014 16:19:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BS1 OPR 1 Exp:OCDD_DB5
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



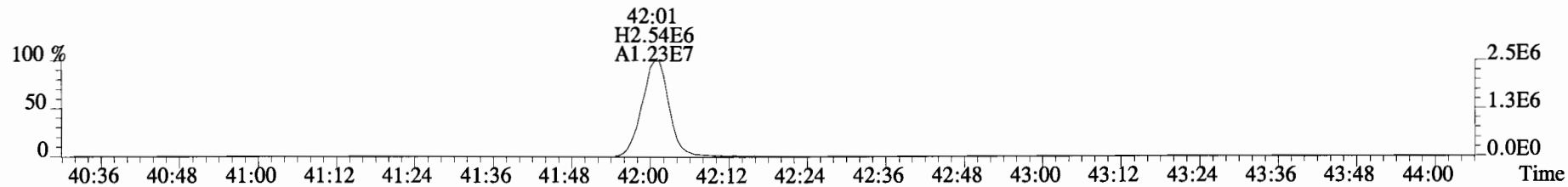
459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



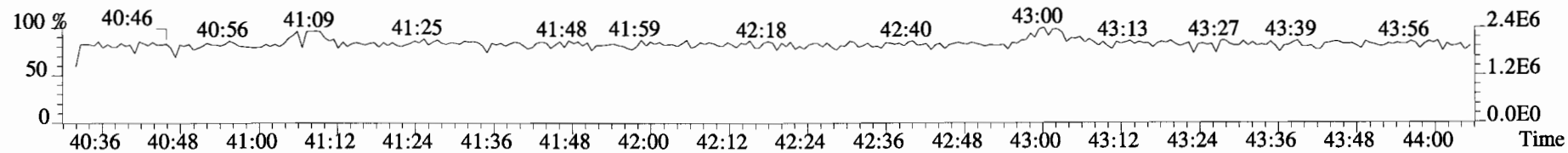
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



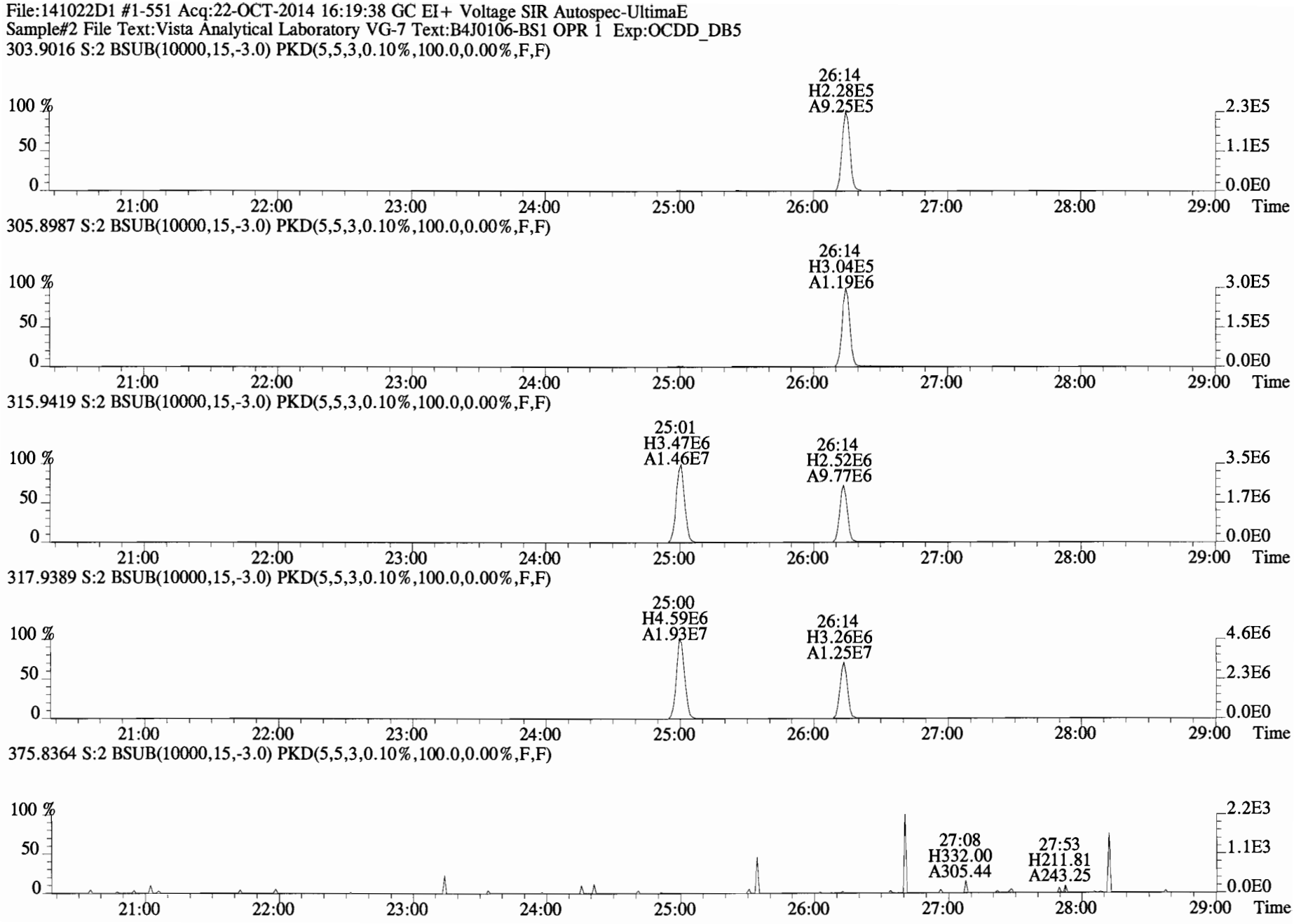
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



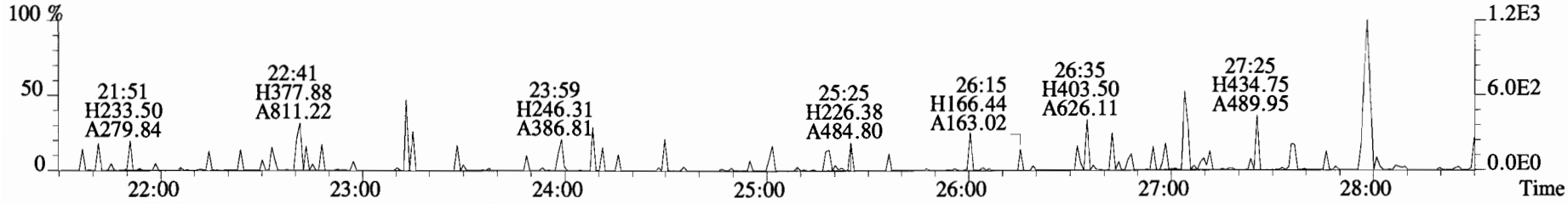
454.9728 S:2 F:5



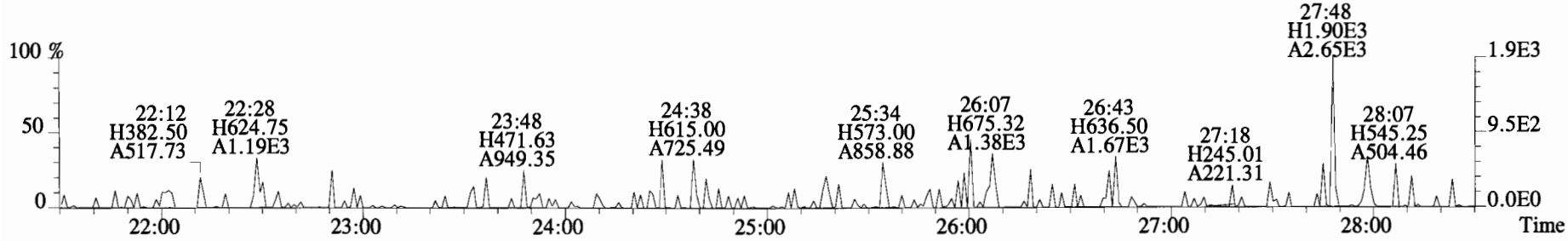
File:141022D1 #1-551 Acq:22-OCT-2014 16:19:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BS1 OPR 1 Exp:OCDD_DB5



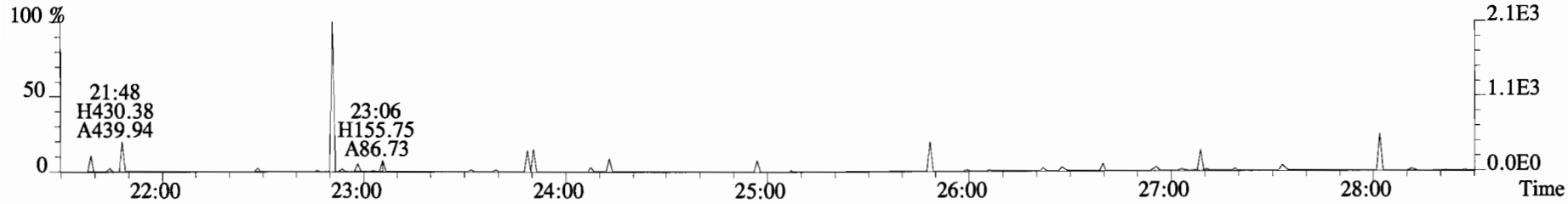
File:141022D1 #1-551 Acq:22-OCT-2014 16:19:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BS1 OPR 1 Exp:OCDD_DB5
339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



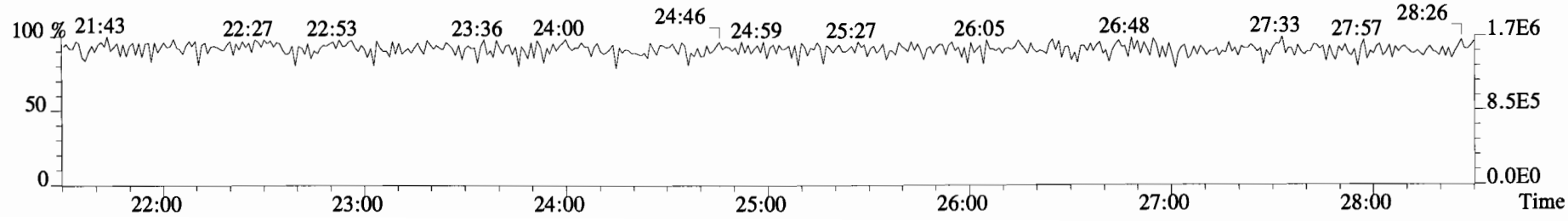
341.8568 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



409.7974 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

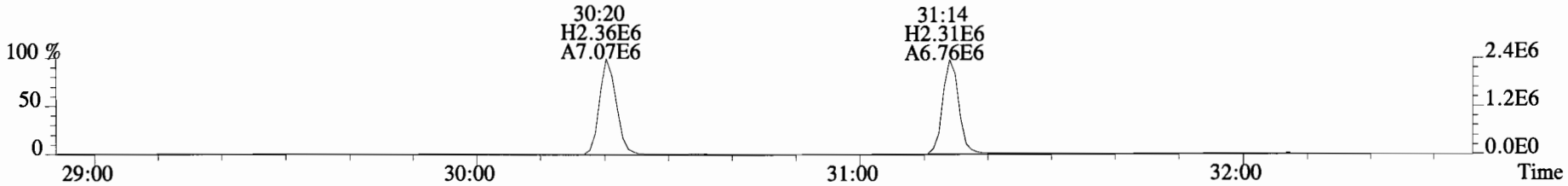


316.9824 S:2

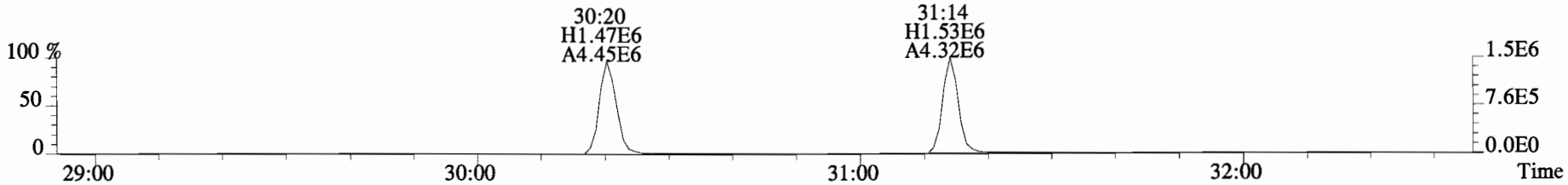


File:141022D1 #1-257 Acq:22-OCT-2014 16:19:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BS1 OPR 1 Exp:OCDD_DB5

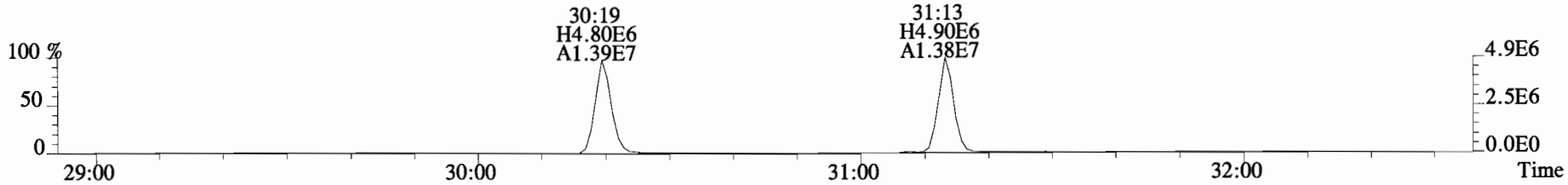
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



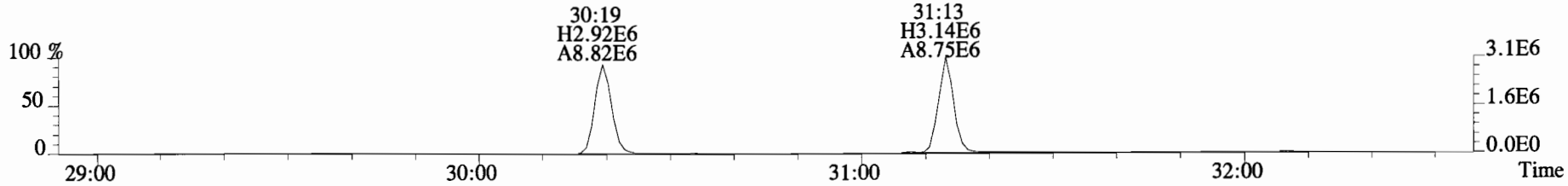
341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



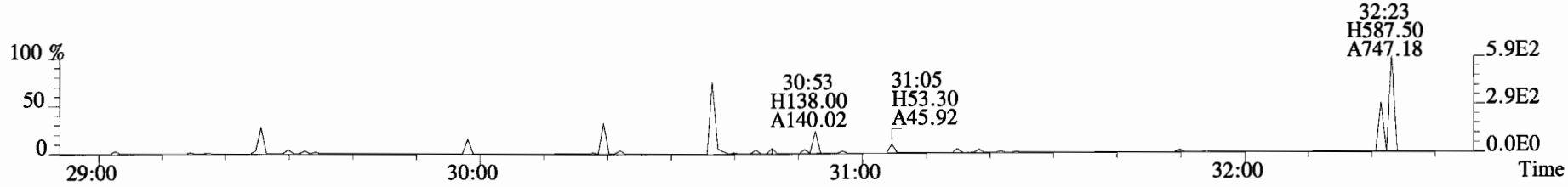
351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

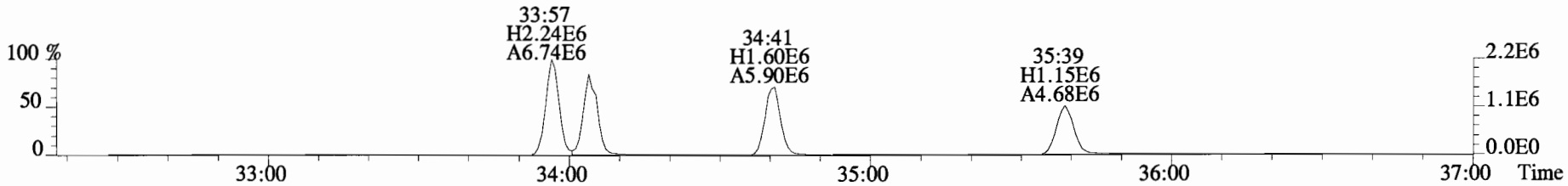


409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

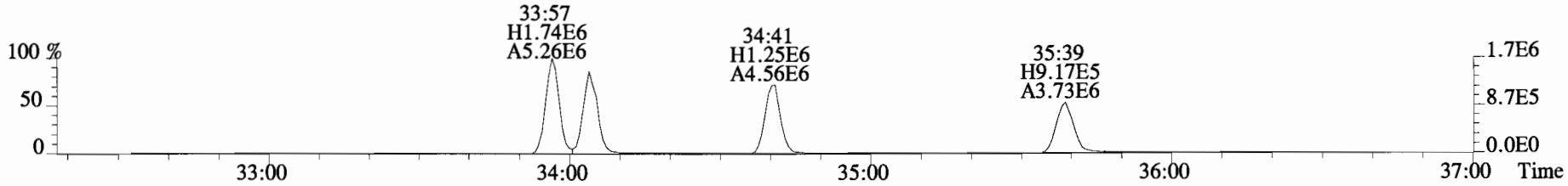


File:141022D1 #1-384 Acq:22-OCT-2014 16:19:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BS1 OPR 1 Exp:OCDD_DB5

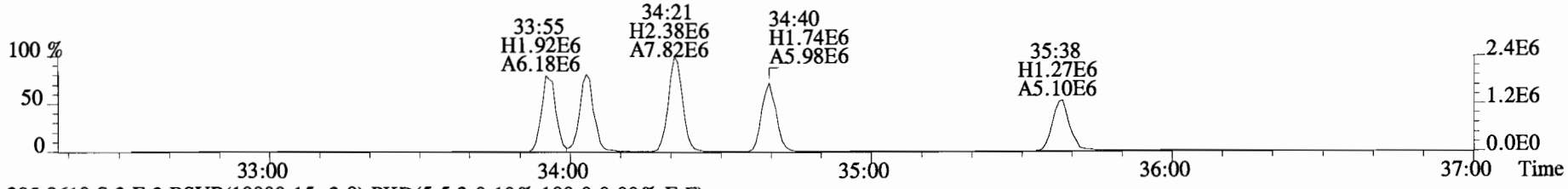
373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



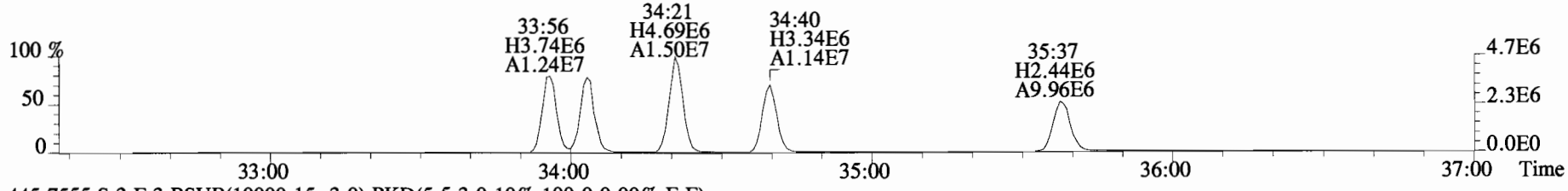
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



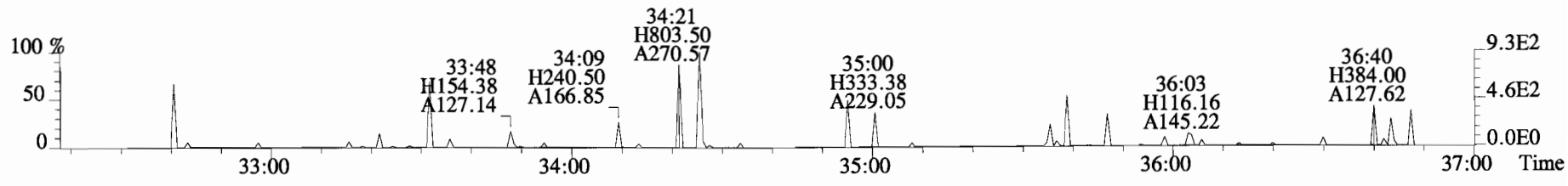
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



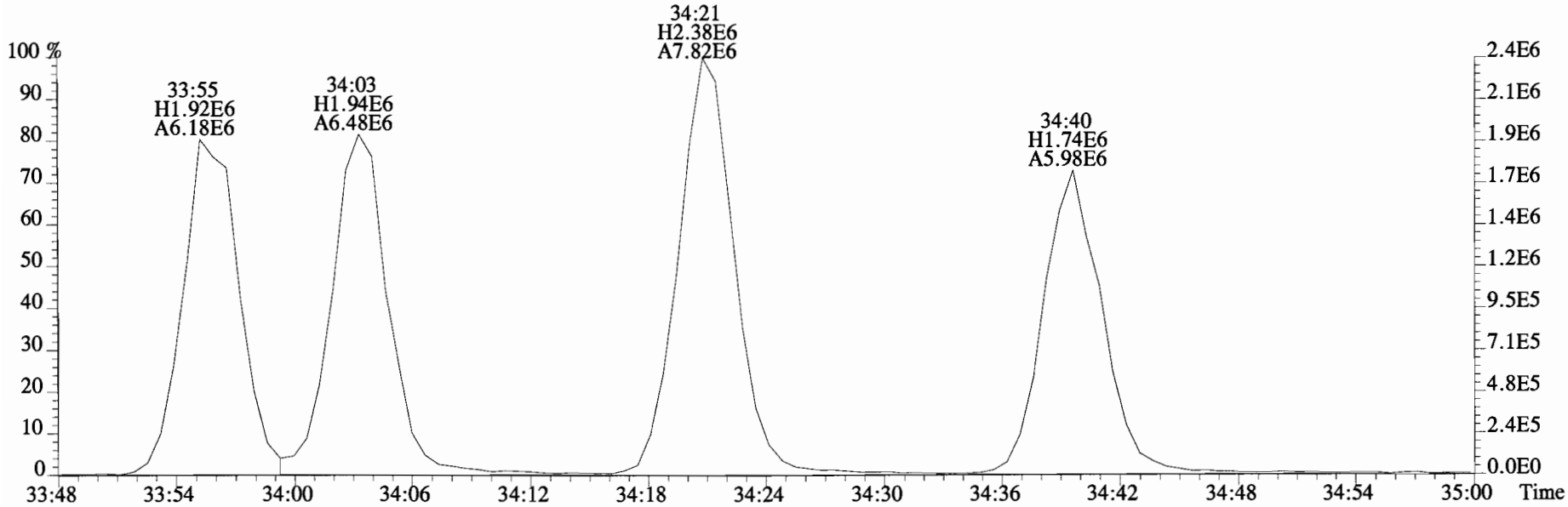
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



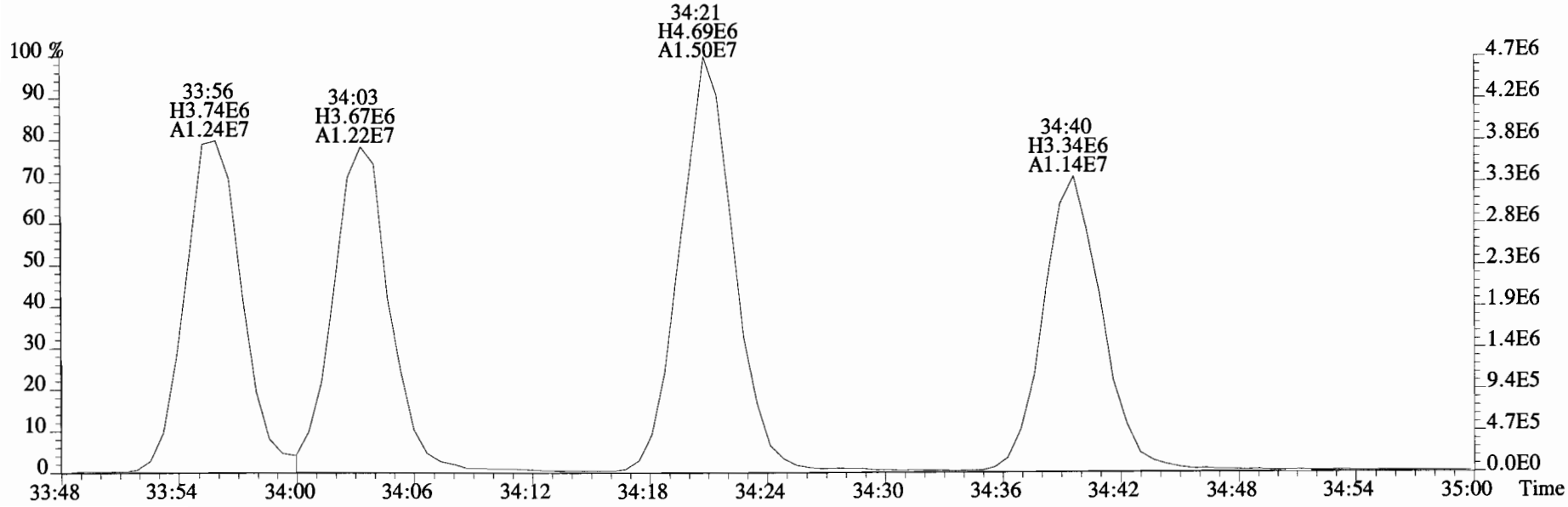
445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:141022D1 #1-384 Acq:22-OCT-2014 16:19:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BS1 OPR 1 Exp:OCDD_DB5
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

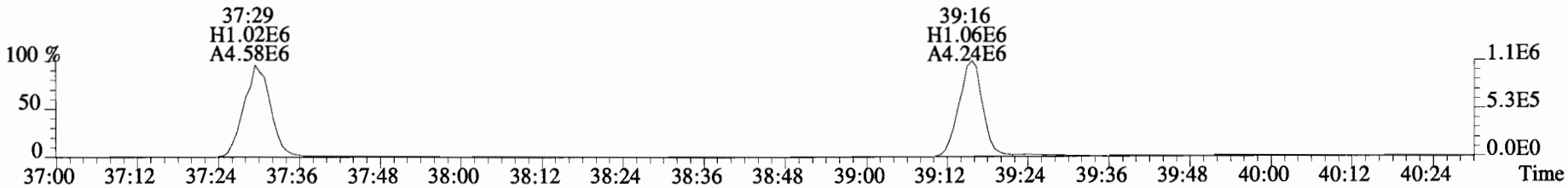


385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

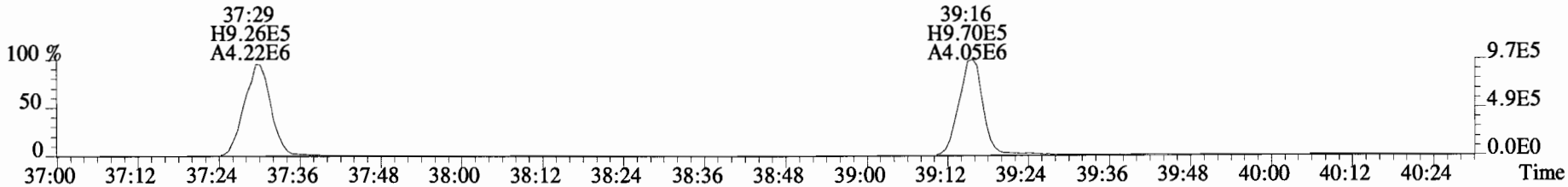


File:141022D1 #1-326 Acq:22-OCT-2014 16:19:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BS1 OPR 1 Exp:OCDD_DB5

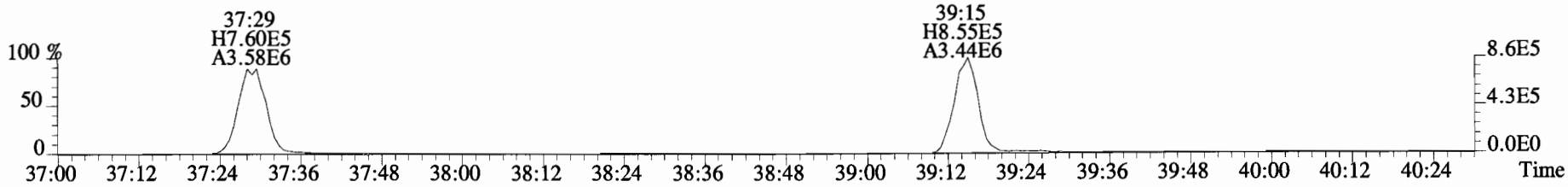
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



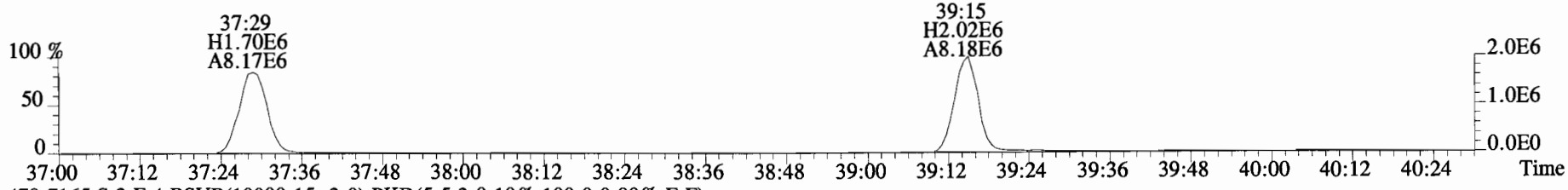
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



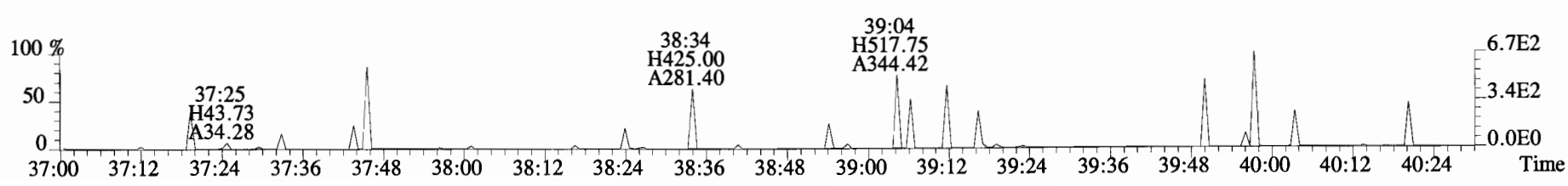
417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

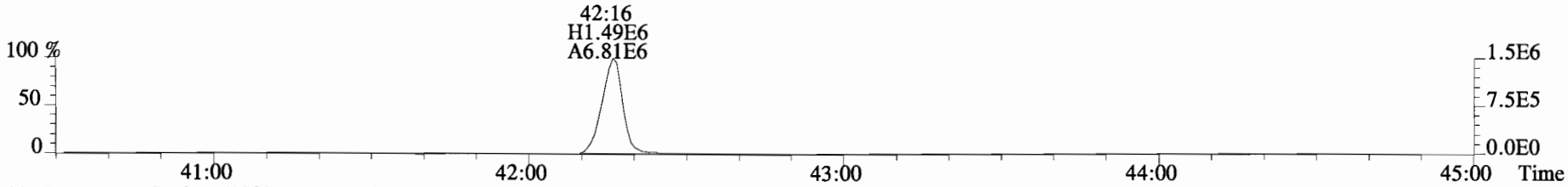


479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

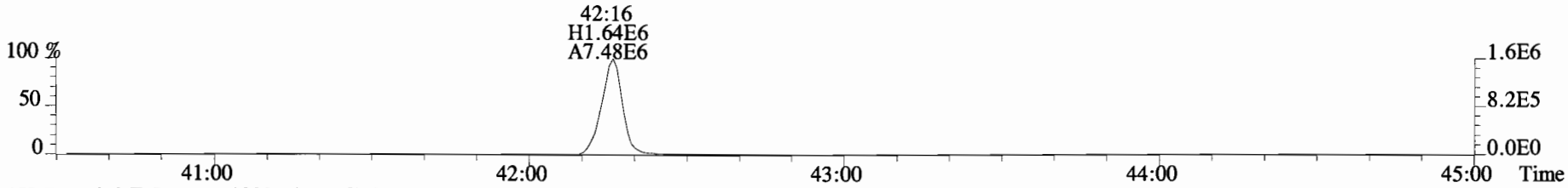


File:141022D1 #1-388 Acq:22-OCT-2014 16:19:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0106-BS1 OPR 1 Exp:OCDD_DB5

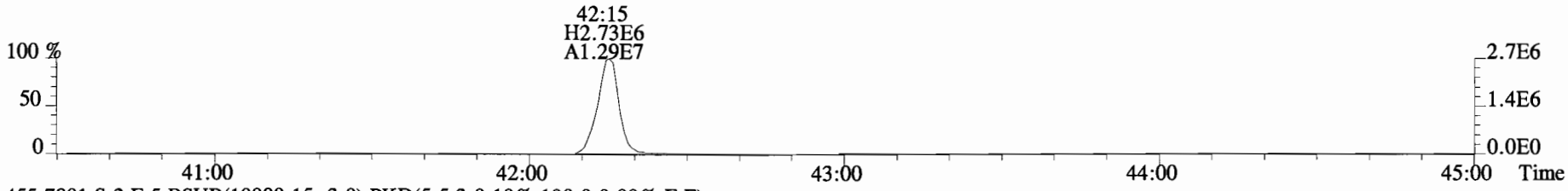
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



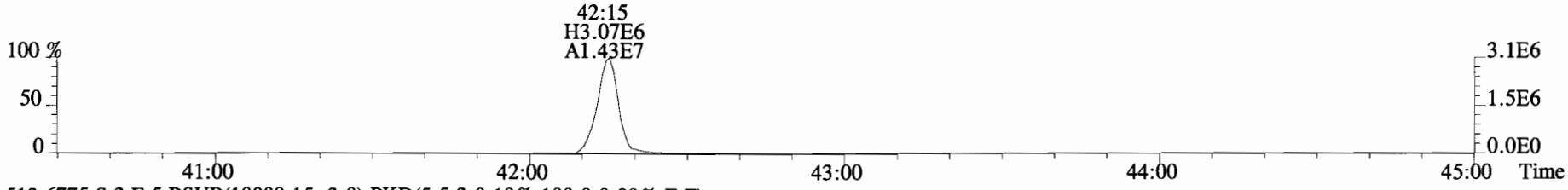
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



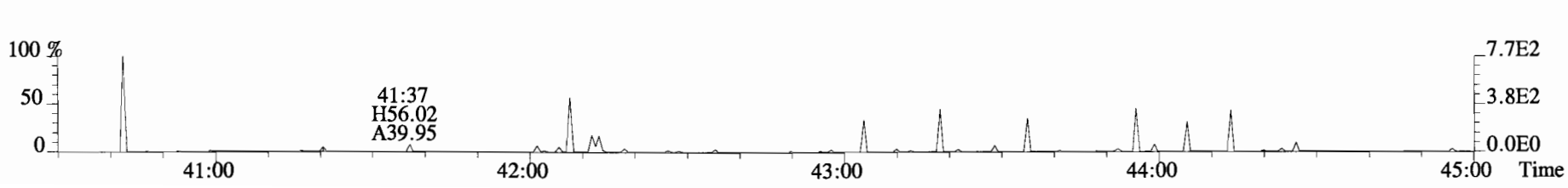
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Client ID: CC-A-01-20141013-W Filename: 141022D1 S:5 Acq:22-OCT-14 18:44:48 ConCal: ST141022D1-1

Lab ID: 1400762-01 GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 1.008 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	*	*	n	1.18	NotF	*	*		756	2.5	1.51
	1,2,3,7,8-PeCDD	*	*	n	0.92	NotF	*	*		566	2.5	0.930
	1,2,3,4,7,8-HxCDD	*	*	n	1.09	NotF	*	*		756	2.5	2.40
	1,2,3,6,7,8-HxCDD	*	*	n	1.07	NotF	*	*		756	2.5	2.56
	1,2,3,7,8,9-HxCDD	*	*	n	0.93	NotF	*	*		756	2.5	2.67
	1,2,3,4,6,7,8-HpCDD	3.18e+04	0.96	y	1.12	38:42	1.000	5.8279		*	2.5	*
	OCDD	1.78e+05	0.86	y	0.95	42:01	1.000	33.727		*	2.5	*
	2,3,7,8-TCDF	*	*	n	1.08	NotF	*	*		678	2.5	0.998
	1,2,3,7,8-PeCDF	*	*	n	1.09	NotF	*	*		913	2.5	1.38
	2,3,4,7,8-PeCDF	*	*	n	1.04	NotF	*	*		592	2.5	1.06
	1,2,3,4,7,8-HxCDF	*	*	n	1.39	NotF	*	*		553	2.5	0.602
	1,2,3,6,7,8-HxCDF	*	*	n	1.26	NotF	*	*		553	2.5	0.644
	2,3,4,6,7,8-HxCDF	*	*	n	1.30	NotF	*	*		372	2.5	0.502
	1,2,3,7,8,9-HxCDF	*	*	n	1.19	NotF	*	*		372	2.5	0.728
	1,2,3,4,6,7,8-HpCDF	1.16e+04	1.39	n	1.62	37:29	1.000	1.3696		*	2.5	*
	1,2,3,4,7,8,9-HpCDF	*	*	n	1.53	NotF	*	*		643	2.5	1.17
	OCDF	*	*	n	1.10	NotF	*	*		1440	1.0	1.86
IS	13C-2,3,7,8-TCDD	1.40e+07	0.79	y	1.07	26:59	1.021	1600.5				
IS	13C-1,2,3,7,8-PeCDD	1.60e+07	0.63	y	1.24	31:29	1.192	1585.5				
IS	13C-1,2,3,4,7,8-HxCDD	1.13e+07	1.30	y	0.72	34:49	1.014	1573.2				
IS	13C-1,2,3,6,7,8-HxCDD	1.12e+07	1.25	y	0.74	34:56	1.017	1540.6				
IS	13C-1,2,3,7,8,9-HxCDD	1.33e+07	1.24	y	0.86	35:14	1.026	1574.5				
IS	13C-1,2,3,4,6,7,8-HpCDD	9.70e+06	1.07	y	0.64	38:41	1.126	1525.9				
IS	13C-OCDD	2.20e+07	0.86	y	0.78	42:01	1.223	2847.8				
IS	13C-2,3,7,8-TCDF	2.03e+07	0.74	y	0.92	26:13	0.992	1593.7				
IS	13C-1,2,3,7,8-PeCDF	2.39e+07	1.58	y	0.95	30:19	1.148	1824.8				
IS	13C-2,3,4,7,8-PeCDF	2.13e+07	1.61	y	0.97	31:13	1.181	1586.5				
IS	13C-1,2,3,4,7,8-HxCDF	1.64e+07	0.50	y	0.99	33:55	0.988	1680.1				
IS	13C-1,2,3,6,7,8-HxCDF	1.71e+07	0.51	y	1.10	34:03	0.992	1579.6				
IS	13C-2,3,4,6,7,8-HxCDF	1.56e+07	0.52	y	1.03	34:39	1.009	1534.5				
IS	13C-1,2,3,7,8,9-HxCDF	1.33e+07	0.51	y	0.86	35:38	1.038	1572.3				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.04e+07	0.44	y	0.71	37:29	1.091	1479.3				
IS	13C-1,2,3,4,7,8,9-HpCDF	1.05e+07	0.44	y	0.71	39:15	1.143	1501.6				
IS	13C-OCDF	2.49e+07	0.90	y	0.87	42:15	1.230	2885.2				
C/Up	37Cl-2,3,7,8-TCDD	6.82e+06			1.21	27:00	1.022	691.53				
RS/RT	13C-1,2,3,4-TCDD	1.61e+07	0.80	y	1.00	26:25	*	1984.3				
RS	13C-1,2,3,4-TCDF	2.74e+07	0.76	y	1.00	24:60	*	1984.3				
RS/RT	13C-1,2,3,4,6,9-HxCDF	1.96e+07	0.52	y	1.00	34:21	*	1984.3				

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	*	*		756	1.51
Total Penta-Dioxins	*	*		566	0.930
Total Hexa-Dioxins	*	*		1080	3.64
Total Hepta-Dioxins	14.0	14.0		*	*
Total Tetra-Furans	*	*		906	1.33
Total Penta-Furans	0.0000	0.53231		*	*
Total Hexa-Furans	*	0.886		*	*
Total Hepta-Furans	1.20	2.57		*	*

	Rec	Qual
IS	80.7	
IS	79.9	
IS	79.3	
IS	77.6	
IS	79.3	
IS	76.9	
IS	71.8	
IS	80.3	
IS	92.0	
IS	80.0	
IS	84.7	
IS	79.6	
IS	77.3	
IS	79.2	
IS	74.5	
IS	75.7	
IS	72.7	
C/Up	87.1	

Integrations by Analyst: MJ Date: 10/23/14

Reviewed by Analyst: Date: 10/24/14

Totals class: HpCDD EMPC Entry #: 25

Run: 10 File: 141022D1 S: 5 I: 1 F: 4
Acquired: 22-OCT-14 18:44:48 Processed: 23-OCT-14 08:38:47

Total Concentration: 13.987 Unnamed Concentration: 8.159

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
37:51	2.202e+04	2.246e+04	0.98	y	4.448e+04	8.1589	
38:42	1.553e+04	1.624e+04	0.96	y	3.177e+04	5.8279	1,2,3,4,6,7,8-HpCDD

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 10 File: 141022D1 S: 5 I: 1 F: 1
Acquired: 22-OCT-14 18:44:48 Processed: 23-OCT-14 08:38:47

Total Concentration: 0.53231 Unnamed Concentration: 0.532

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
27:57	6.938e+03	2.532e+03	2.74	n	6.457e+03	0.53231	

Totals class: HxCDF EMPC Entry #: 33

Run: 10 File: 141022D1 S: 5 I: 1 F: 3
Acquired: 22-OCT-14 18:44:48 Processed: 23-OCT-14 08:38:47

Total Concentration: 0.88609 Unnamed Concentration: 0.886

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
32:54	7.001e+03	4.012e+03	1.75	n	8.986e+03	0.88609	

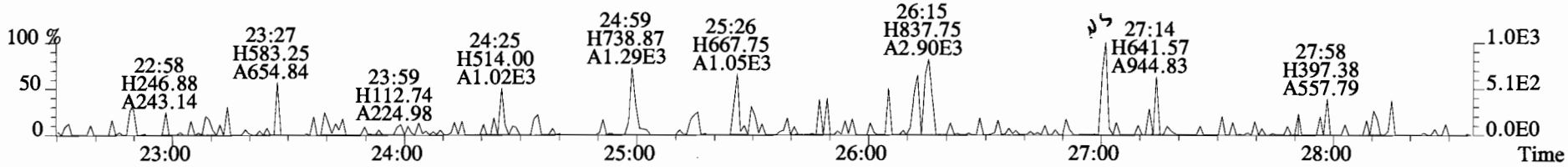
Totals class: HpCDF EMPC Entry #: 35

Run: 10 File: 141022D1 S: 5 I: 1 F: 4
Acquired: 22-OCT-14 18:44:48 Processed: 23-OCT-14 08:38:47

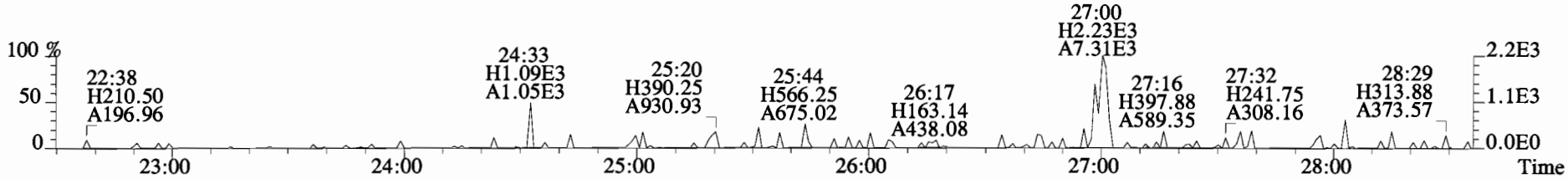
Total Concentration: 2.5710 Unnamed Concentration: 1.201

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
37:29	7.918e+03	5.697e+03	1.39	n	1.162e+04	1.3696	1,2,3,4,6,7,8-HpCDF
38:04	5.107e+03	4.841e+03	1.05	y	9.948e+03	1.2014	

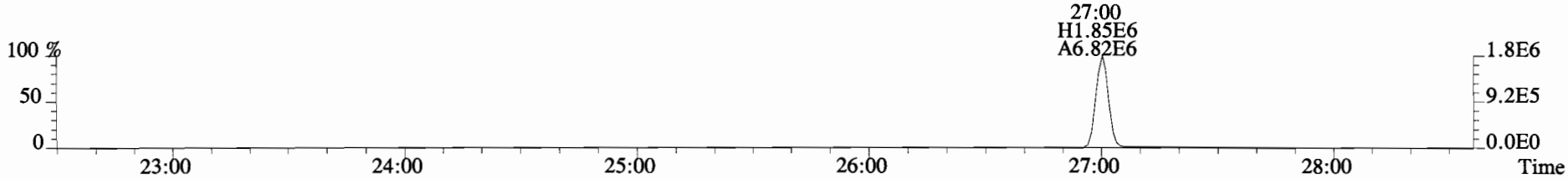
File:141022D1 #1-551 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



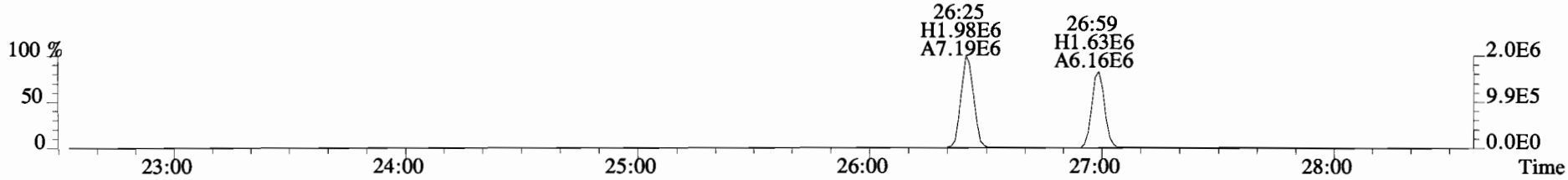
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



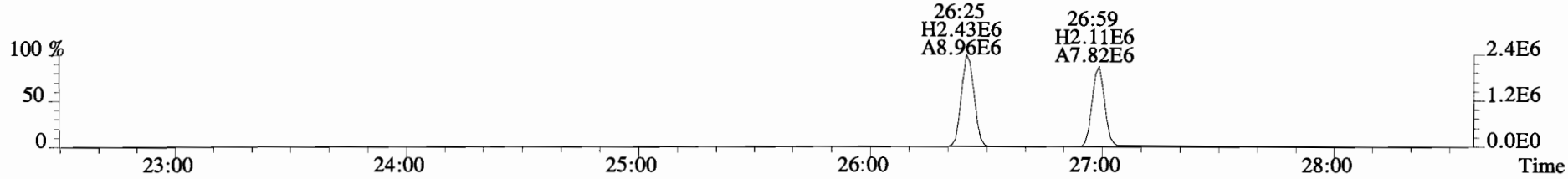
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



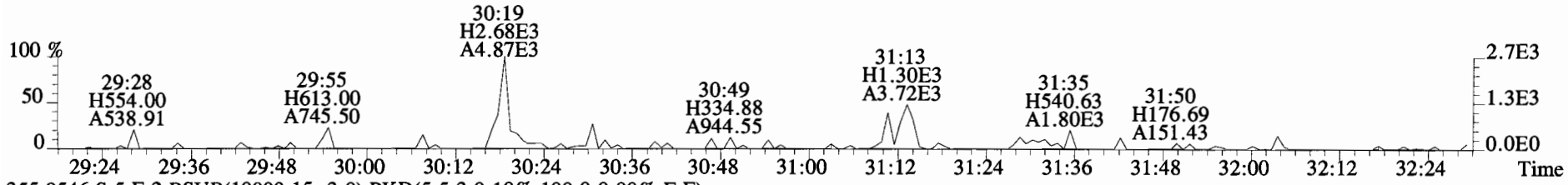
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



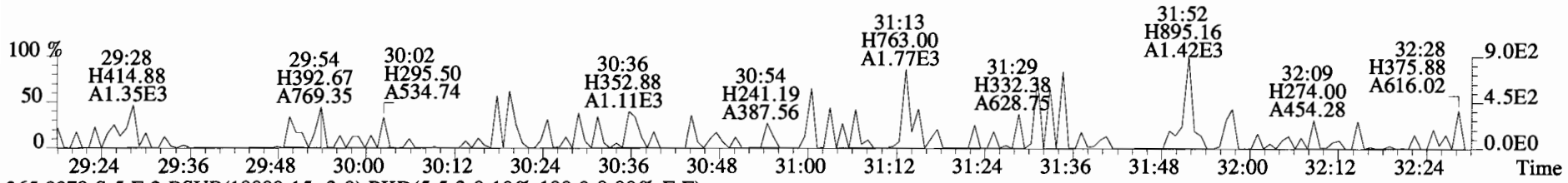
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



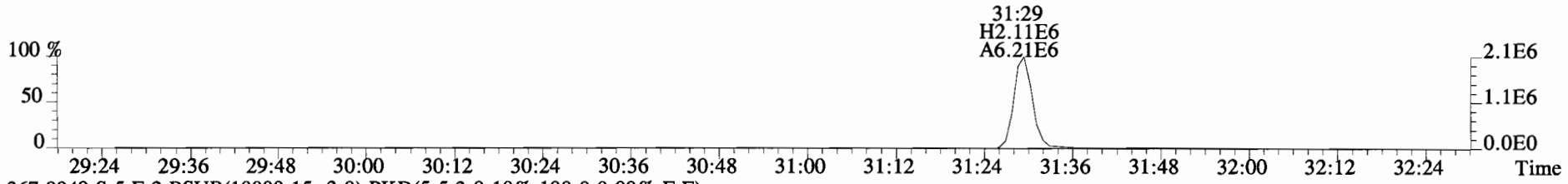
File:141022D1 #1-256 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



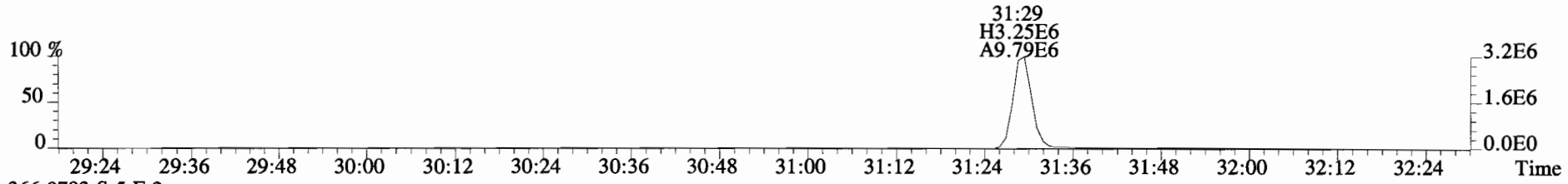
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



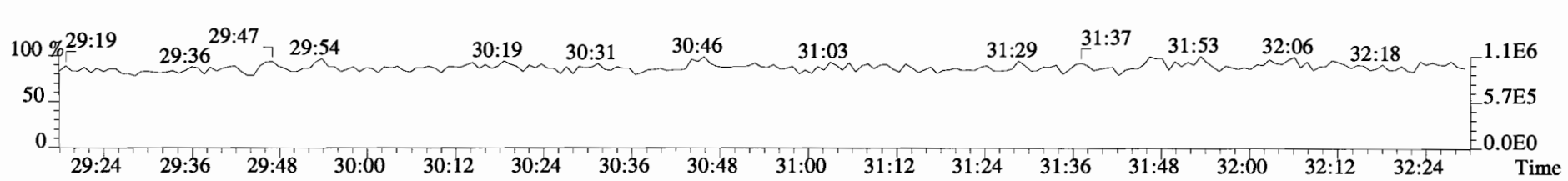
365.8978 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



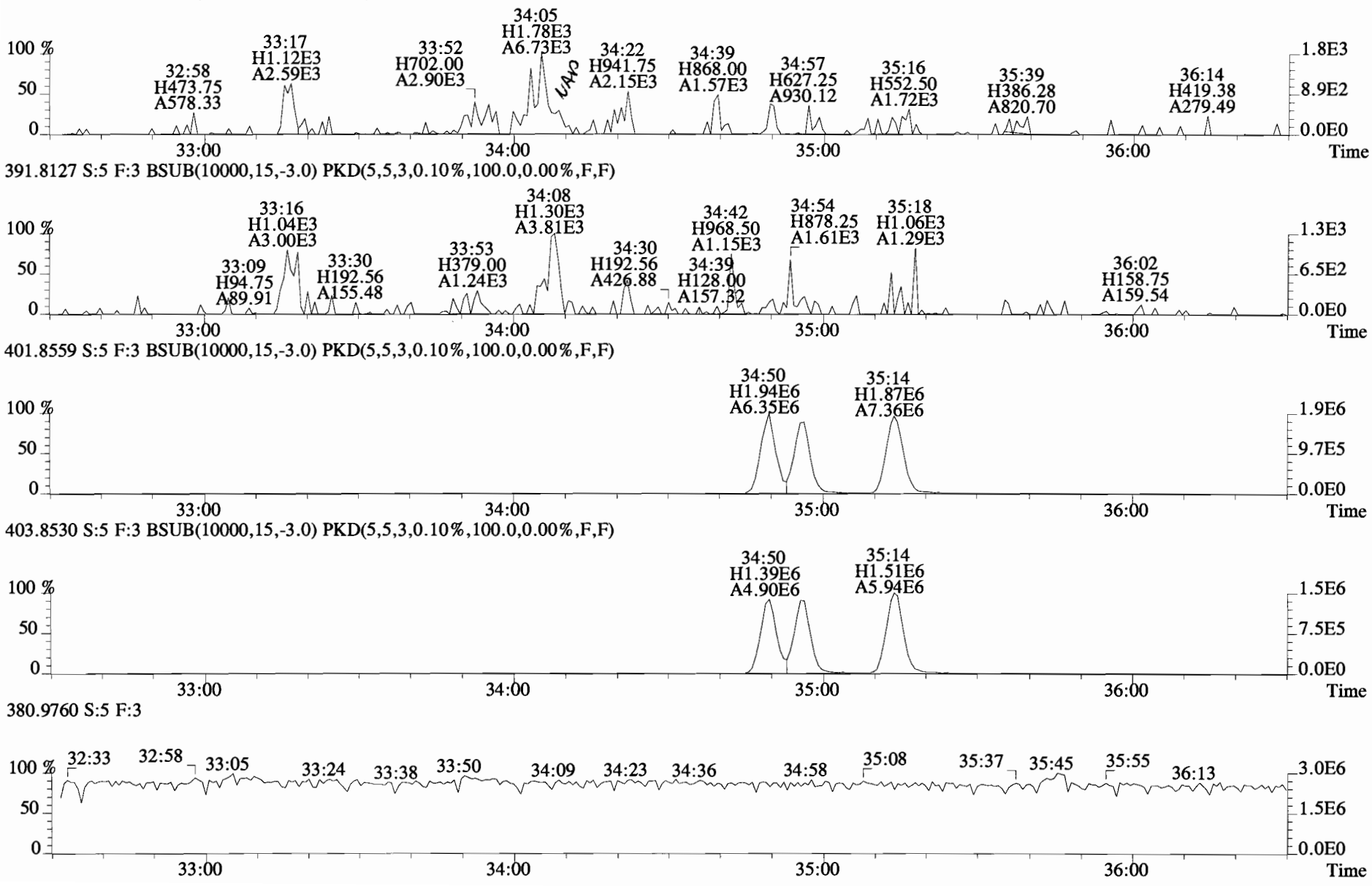
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



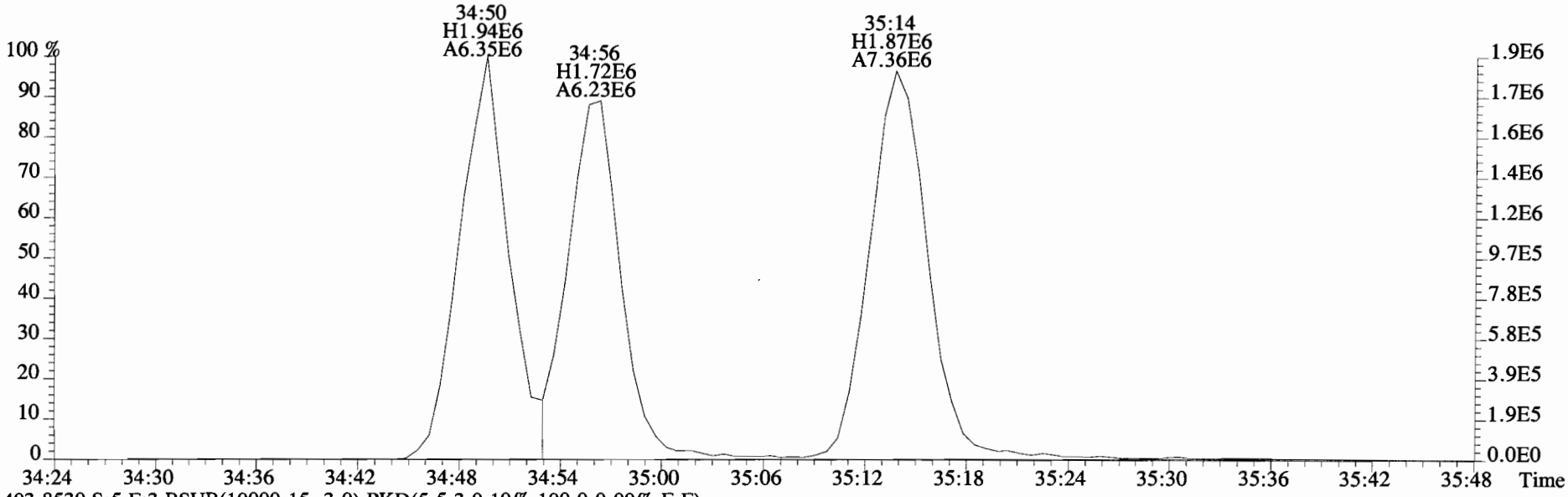
366.9792 S:5 F:2



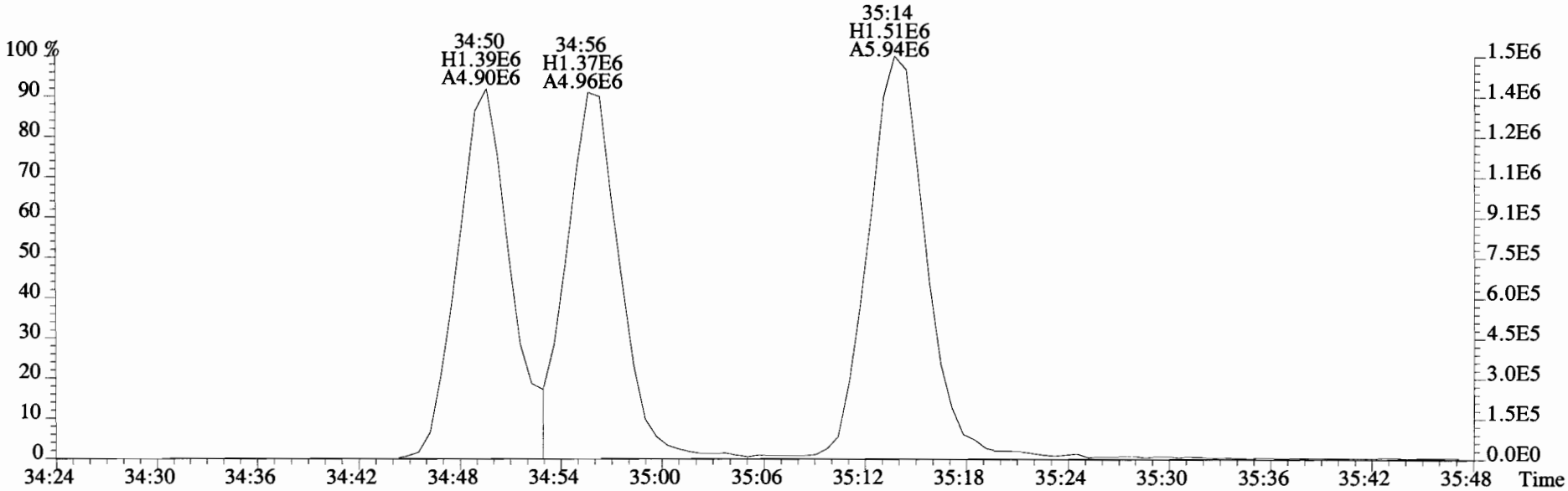
File:141022D1 #1-386 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5



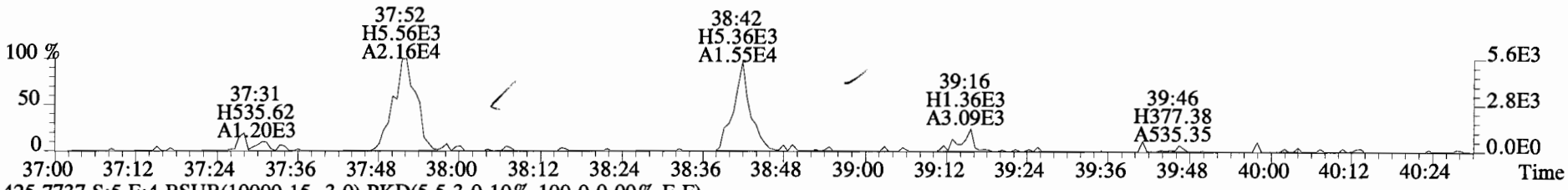
File:141022D1 #1-386 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



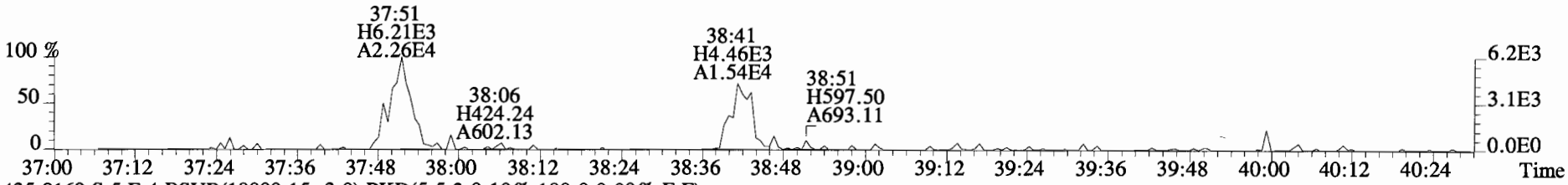
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



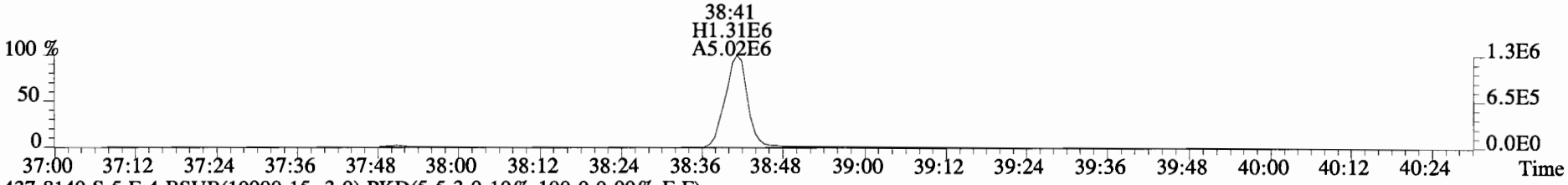
File:141022D1 #1-325 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



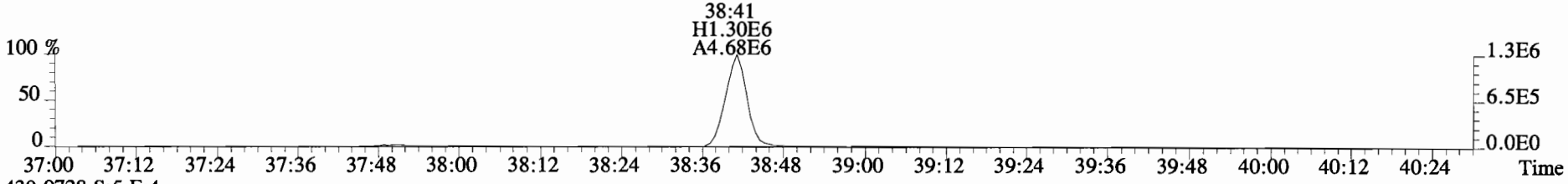
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



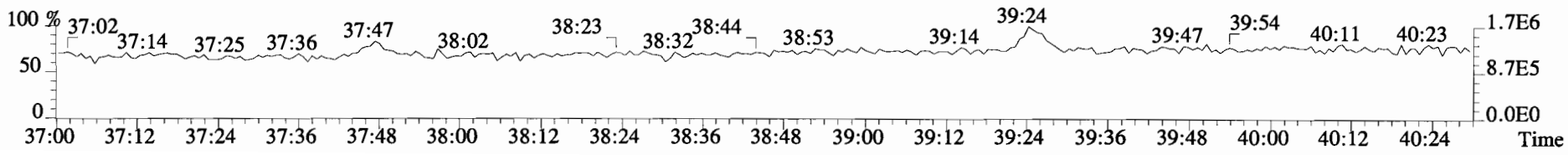
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



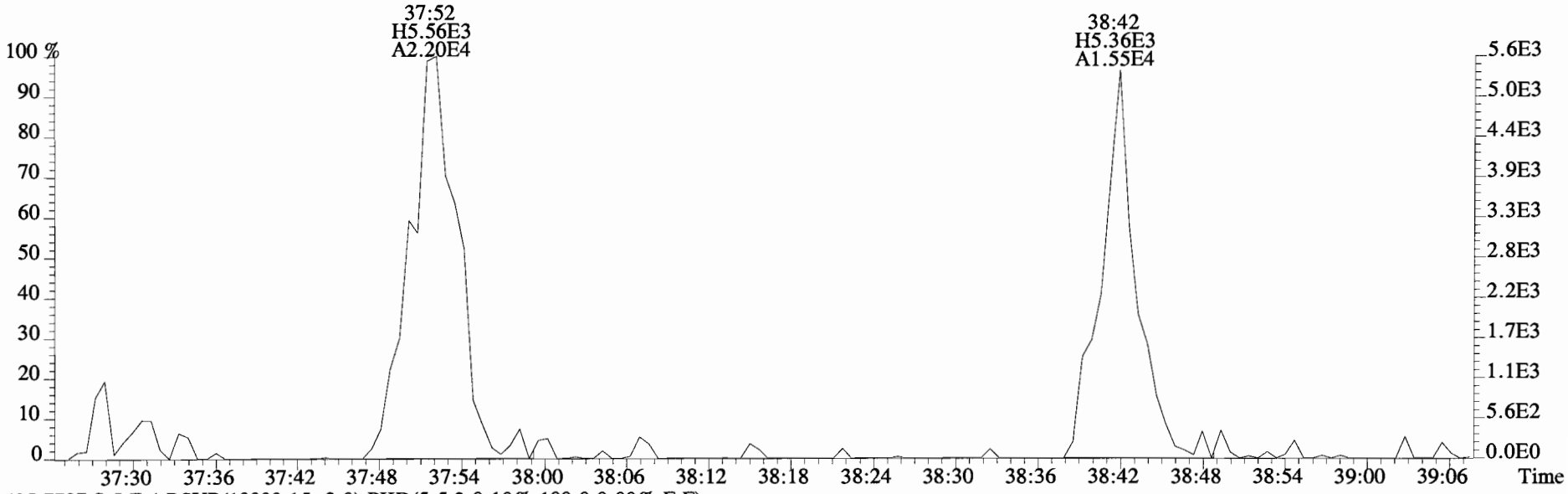
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



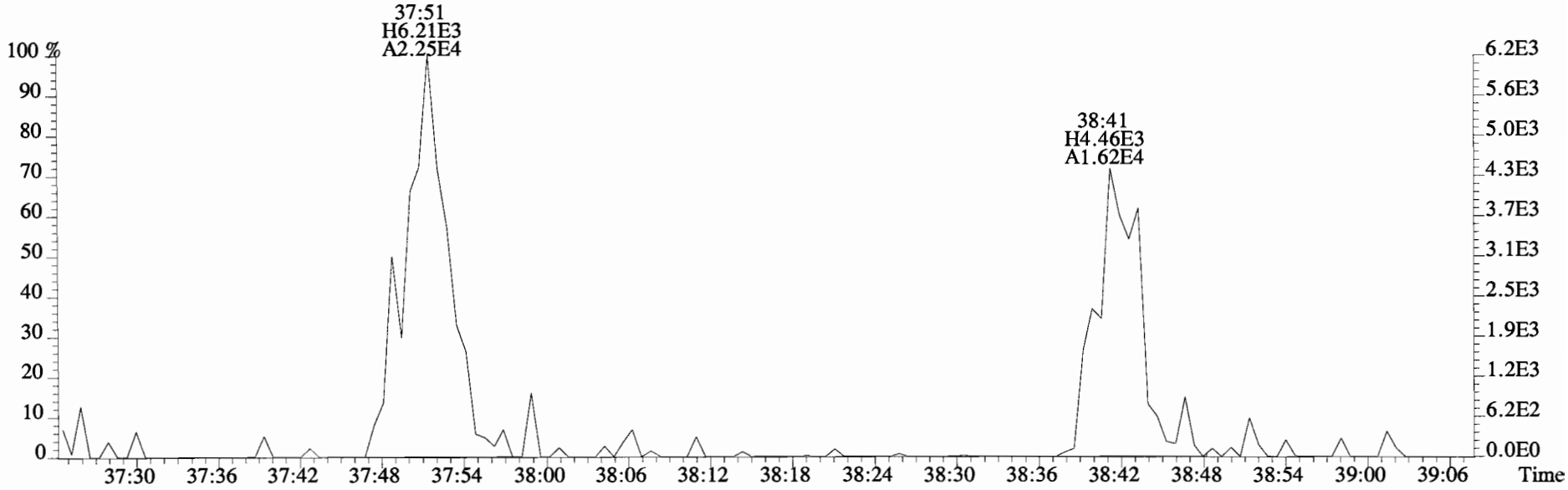
430.9728 S:5 F:4



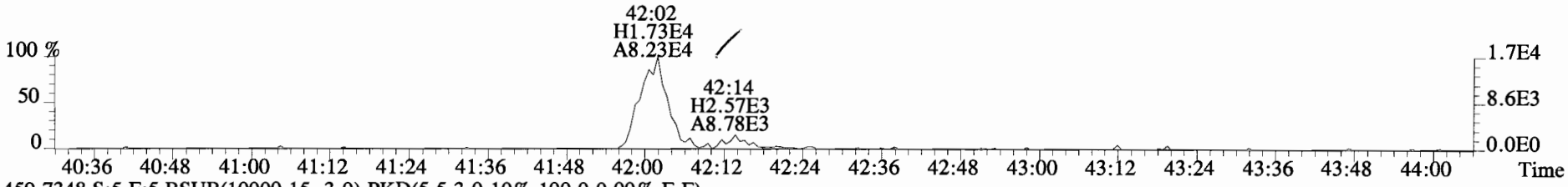
File:141022D1 #1-325 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



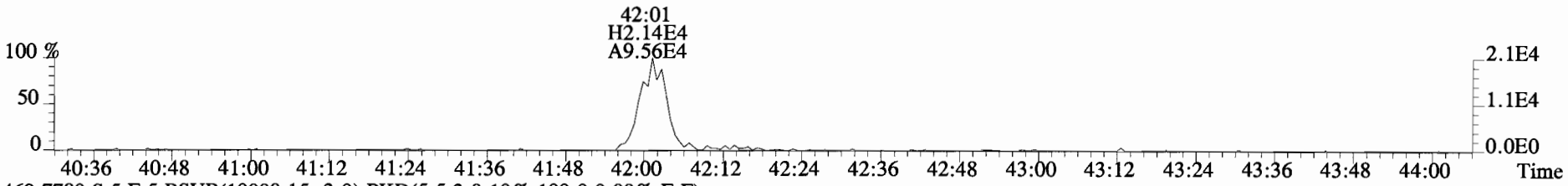
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



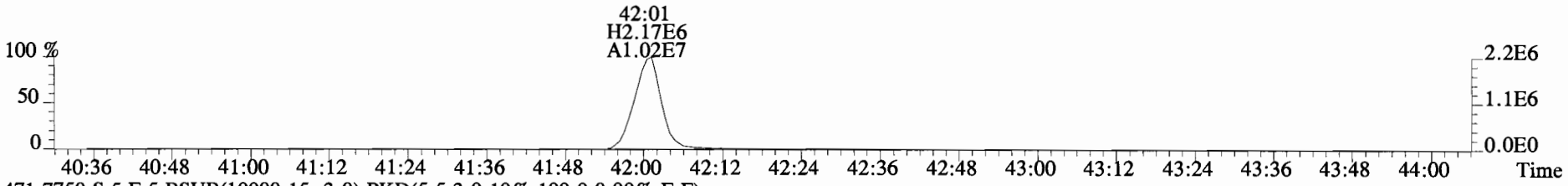
File:141022D1 #1-389 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



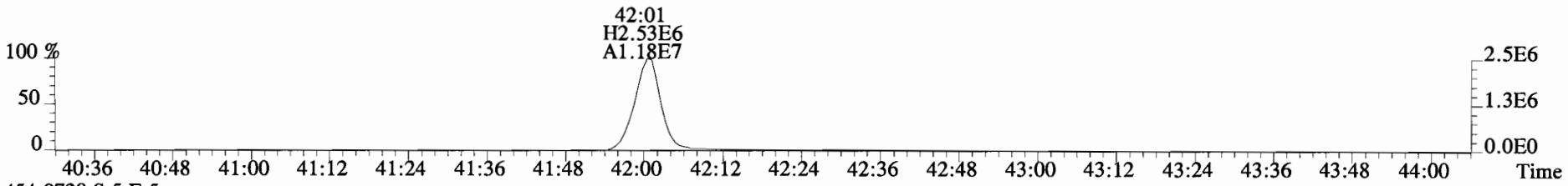
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



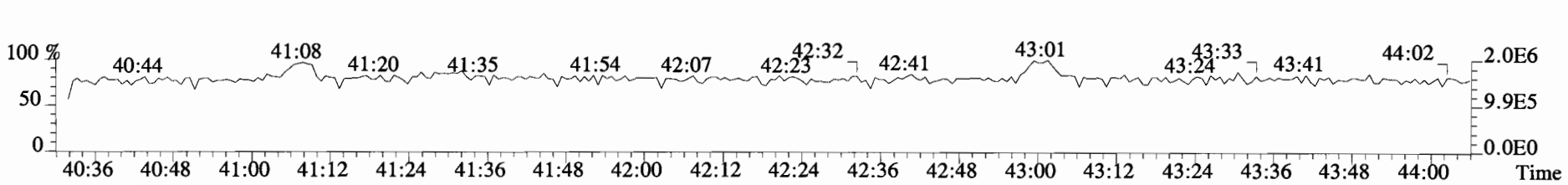
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

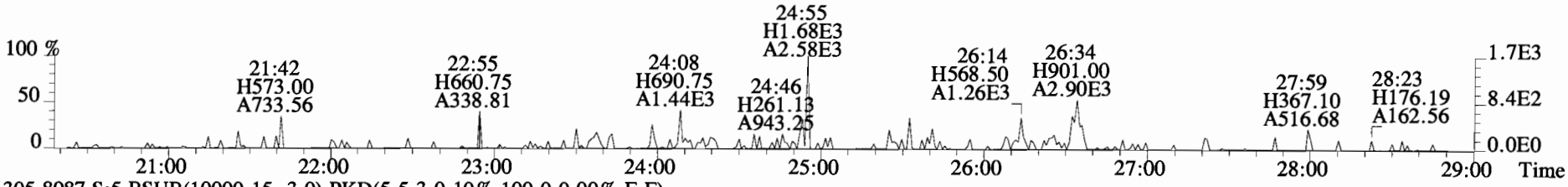


454.9728 S:5 F:5

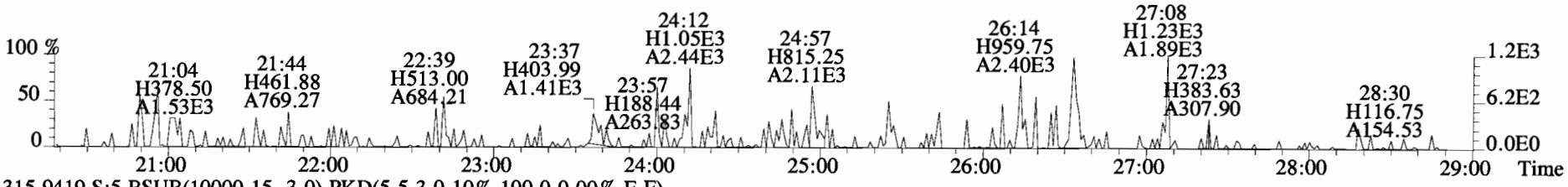


File:141022D1 #1-551 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5

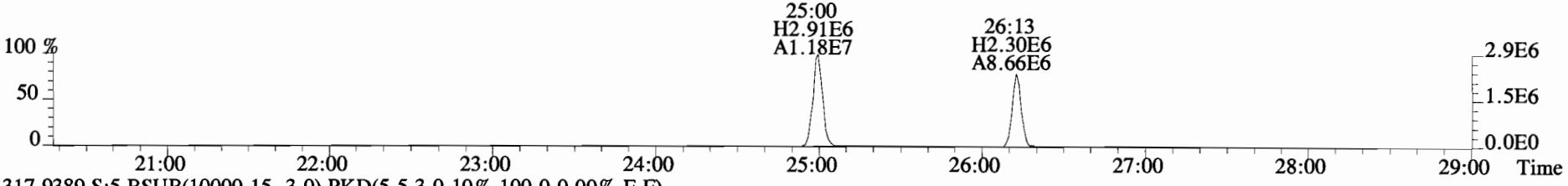
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



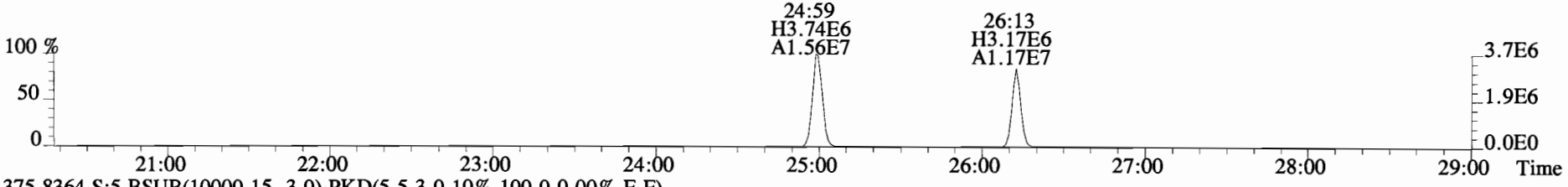
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



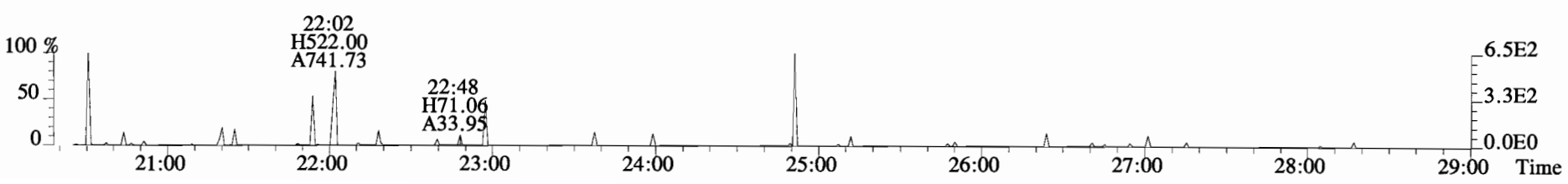
315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



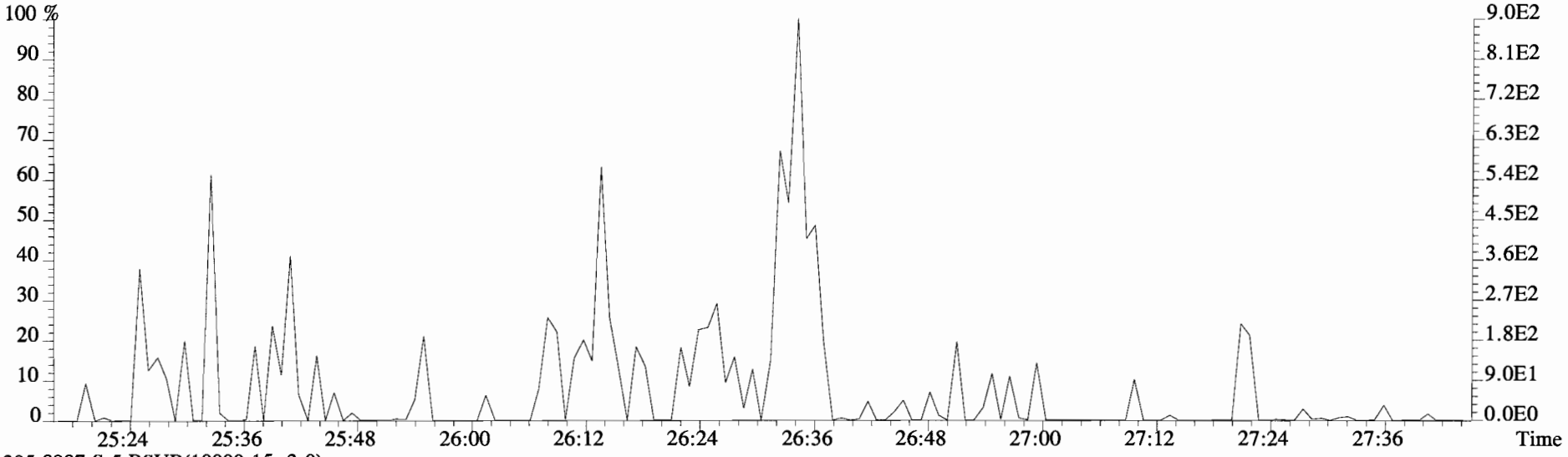
317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



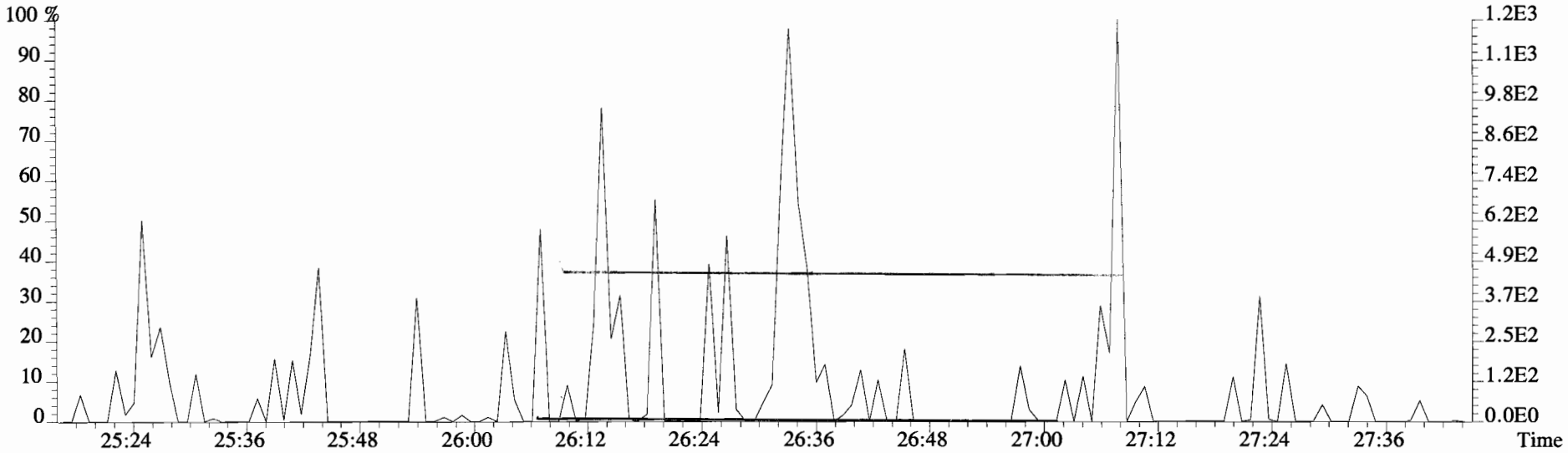
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:141022D1 #1-551 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5
303.9016 S:5 BSUB(10000,15,-3.0)

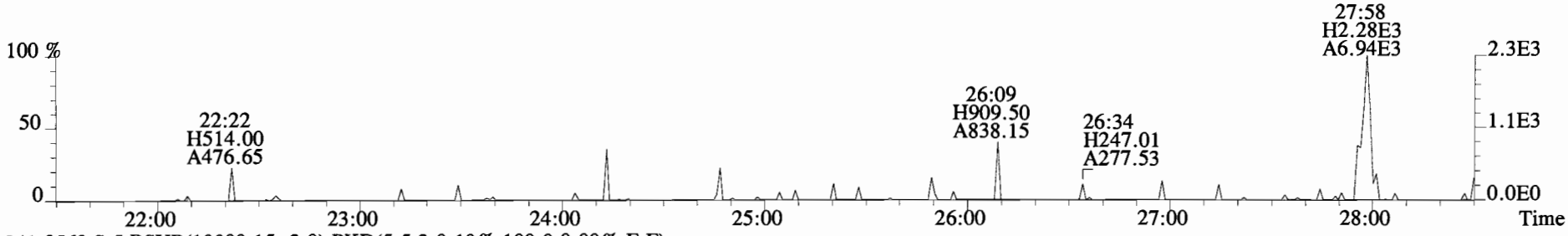


305.8987 S:5 BSUB(10000,15,-3.0)

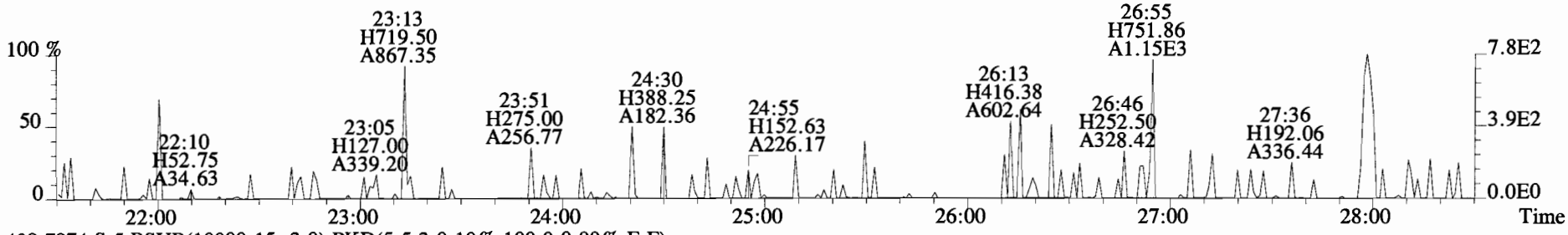


File:141022D1 #1-551 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5

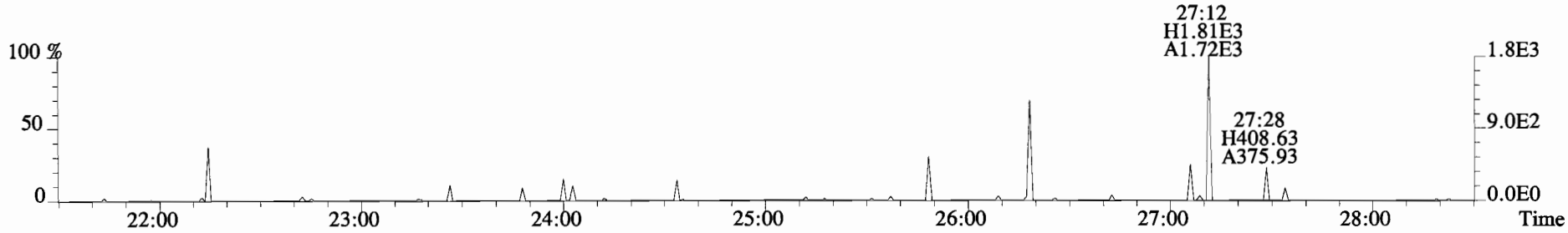
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



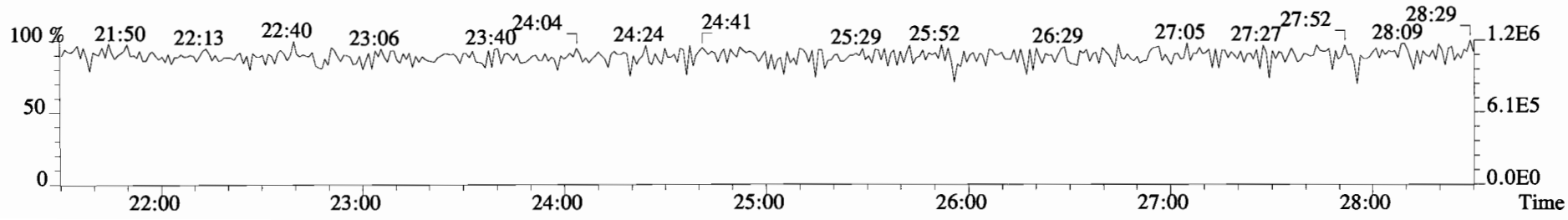
341.8568 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



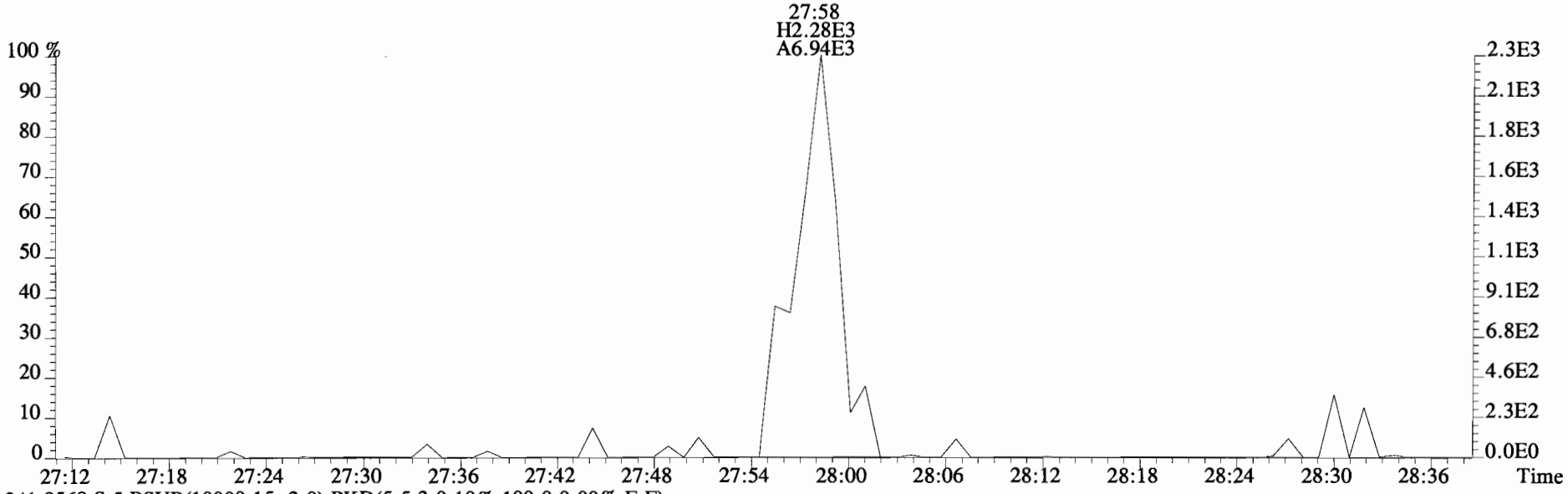
409.7974 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



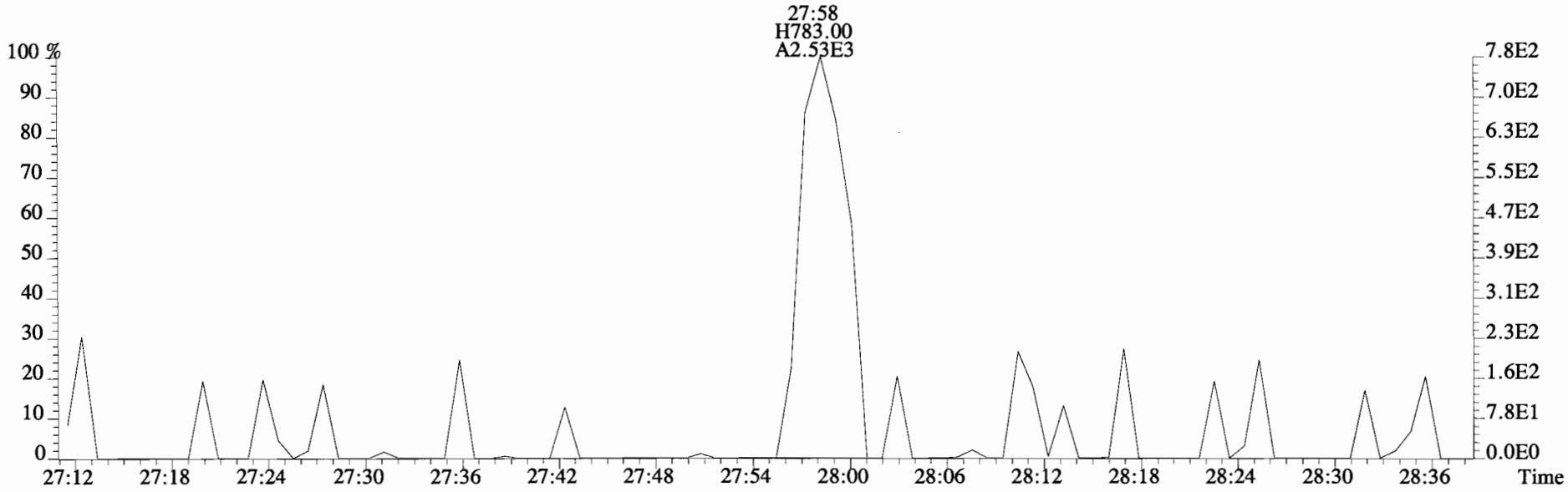
316.9824 S:5



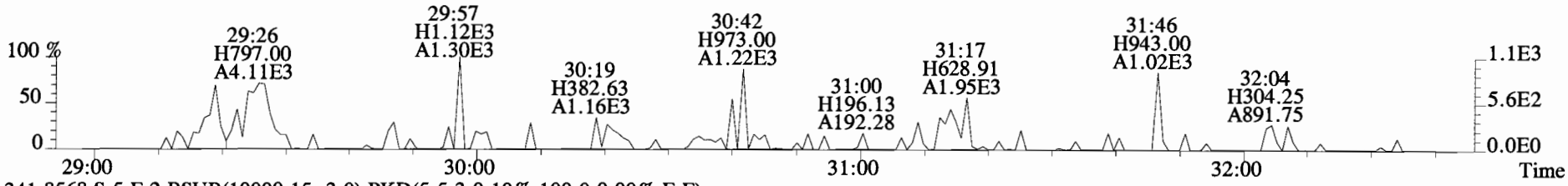
File:141022D1 #1-551 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



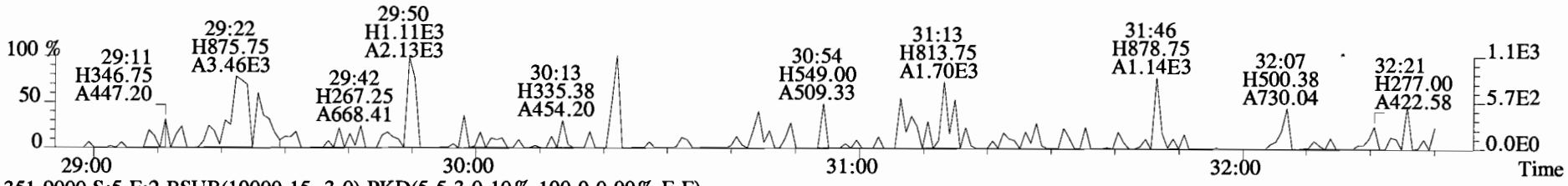
341.8568 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



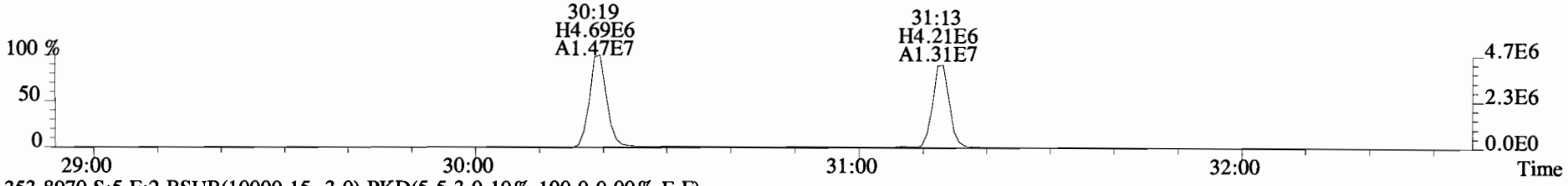
File:141022D1 #1-256 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



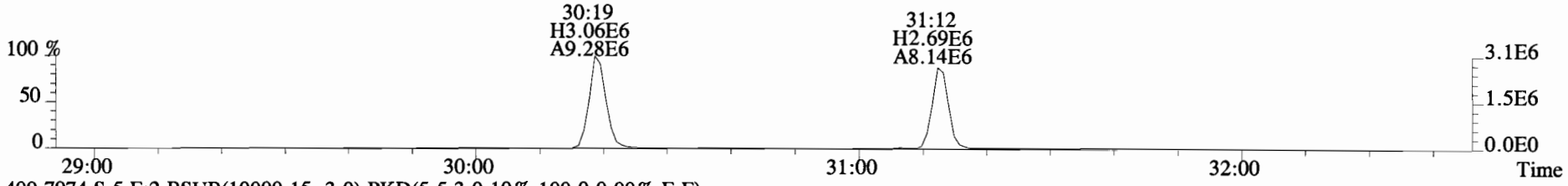
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



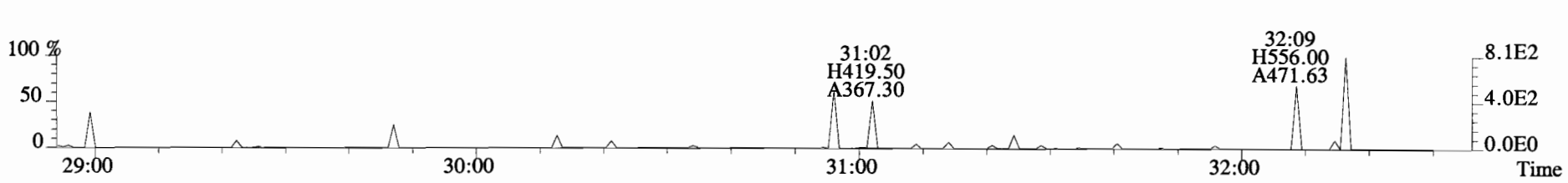
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

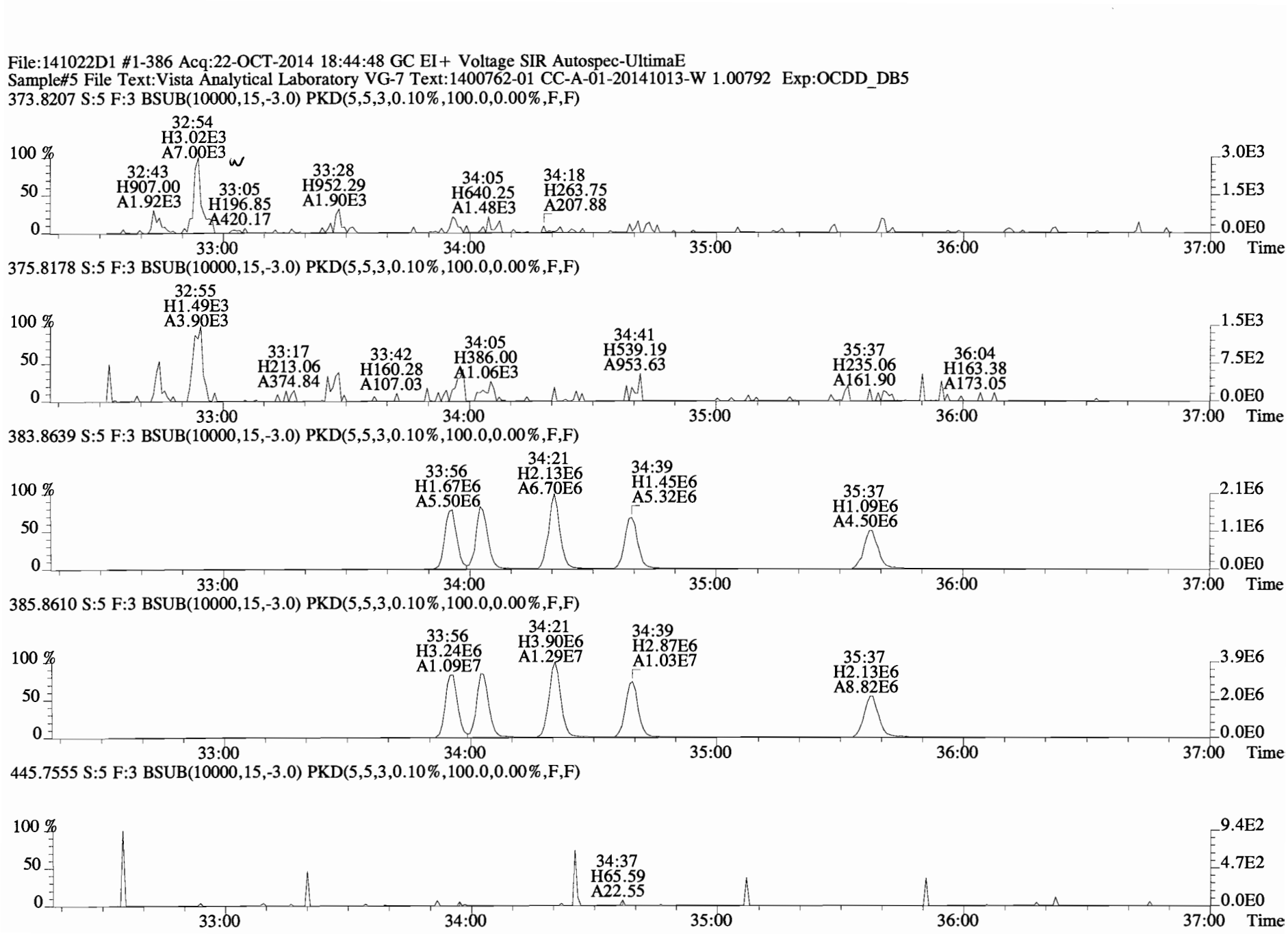


353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

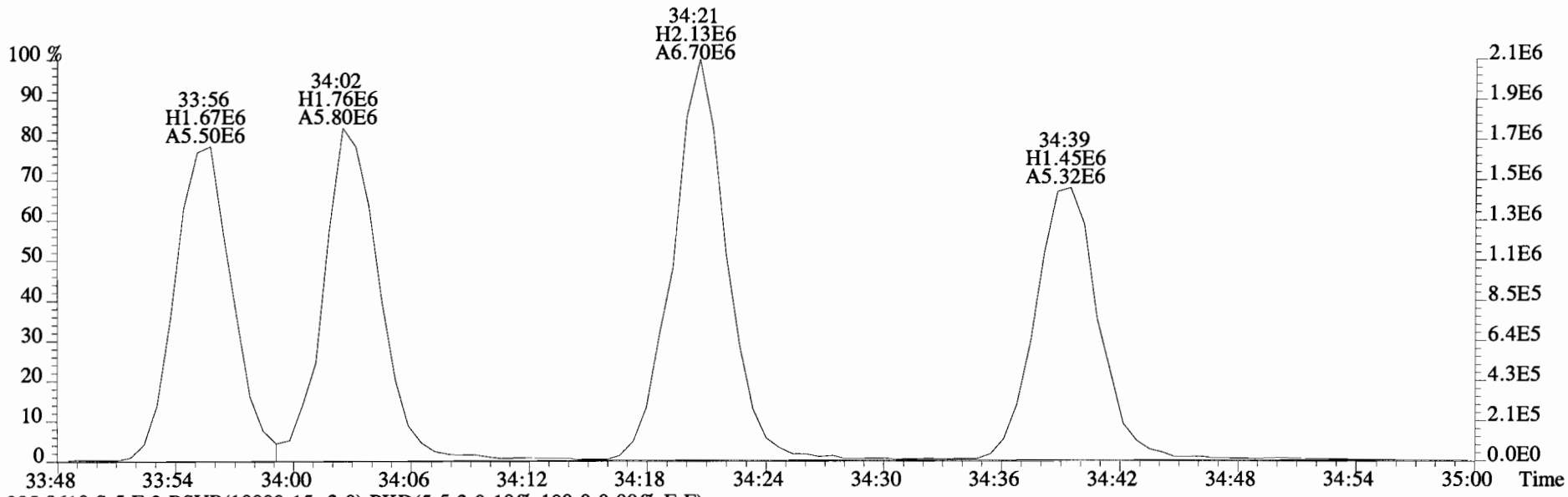


409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

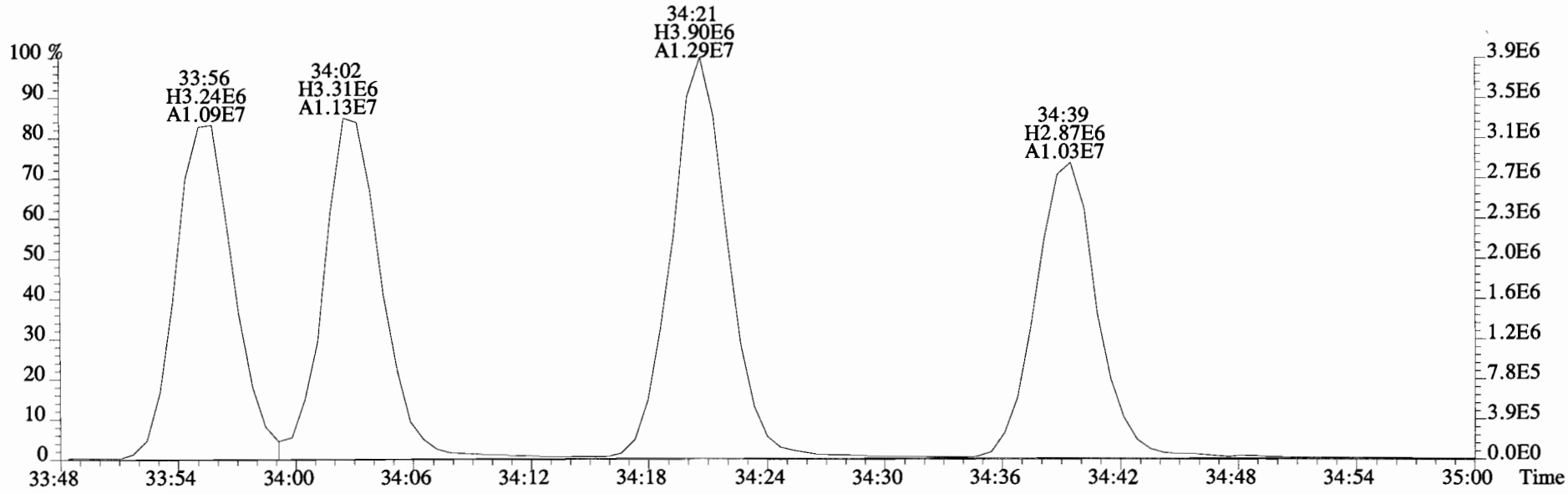



File:141022D1 #1-386 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
32:54 H3.02E3 A7.00E3
32:43 H907.00 A1.92E3
33:05 H196.85 A420.17
33:28 H952.29 A1.90E3
34:05 H640.25 A1.48E3
34:18 H263.75 A207.88
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
32:55 H1.49E3 A3.90E3
33:17 H213.06 A374.84
33:42 H160.28 A107.03
34:05 H386.00 A1.06E3
34:41 H539.19 A953.63
35:37 H235.06 A161.90
36:04 H163.38 A173.05
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
33:56 H1.67E6 A5.50E6
34:21 H2.13E6 A6.70E6
34:39 H1.45E6 A5.32E6
35:37 H1.09E6 A4.50E6
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
33:56 H3.24E6 A1.09E7
34:21 H3.90E6 A1.29E7
34:39 H2.87E6 A1.03E7
35:37 H2.13E6 A8.82E6
445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
34:37 H65.59 A22.55
100 %
50
0
33:00
34:00
35:00
36:00
37:00
Time

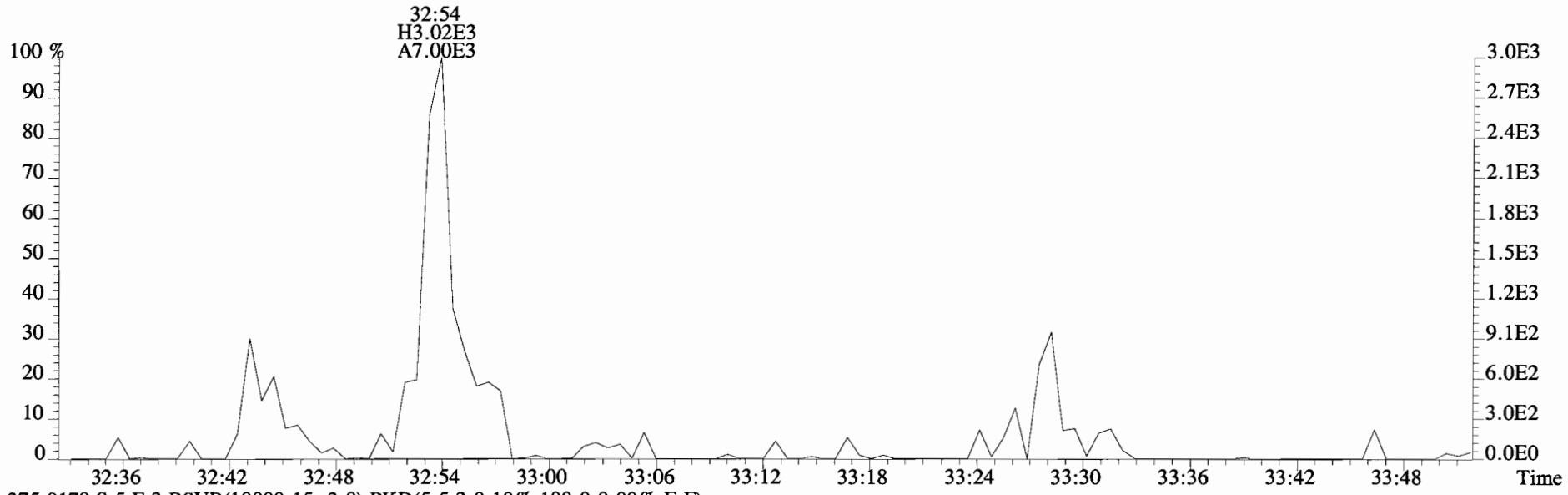
File:141022D1 #1-386 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



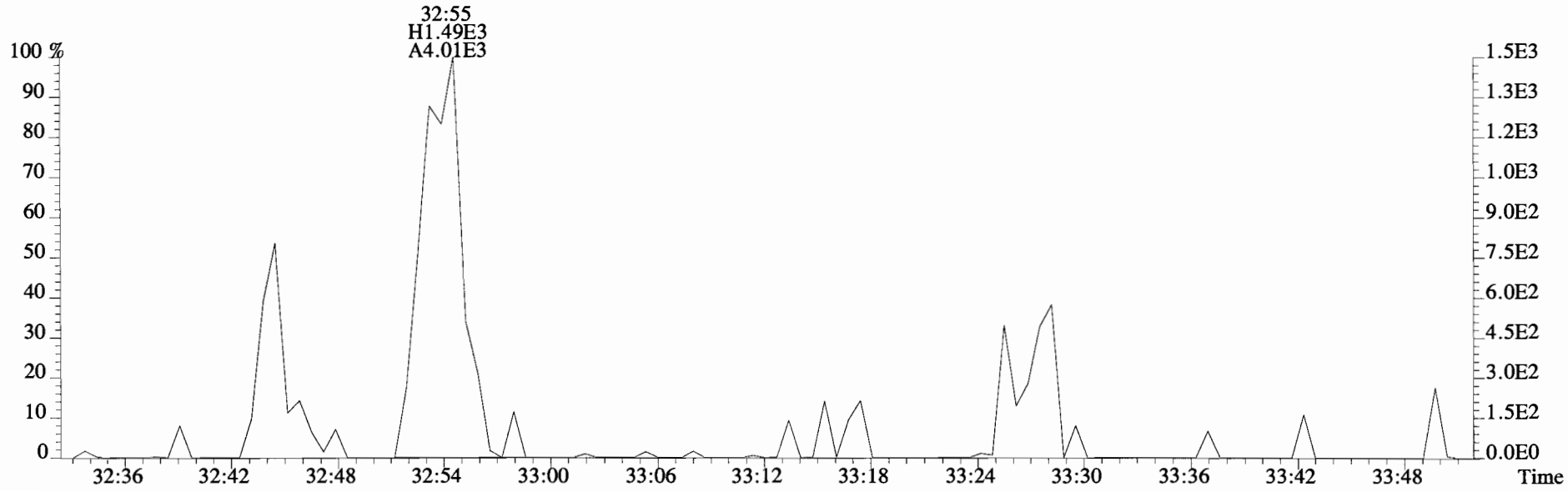
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



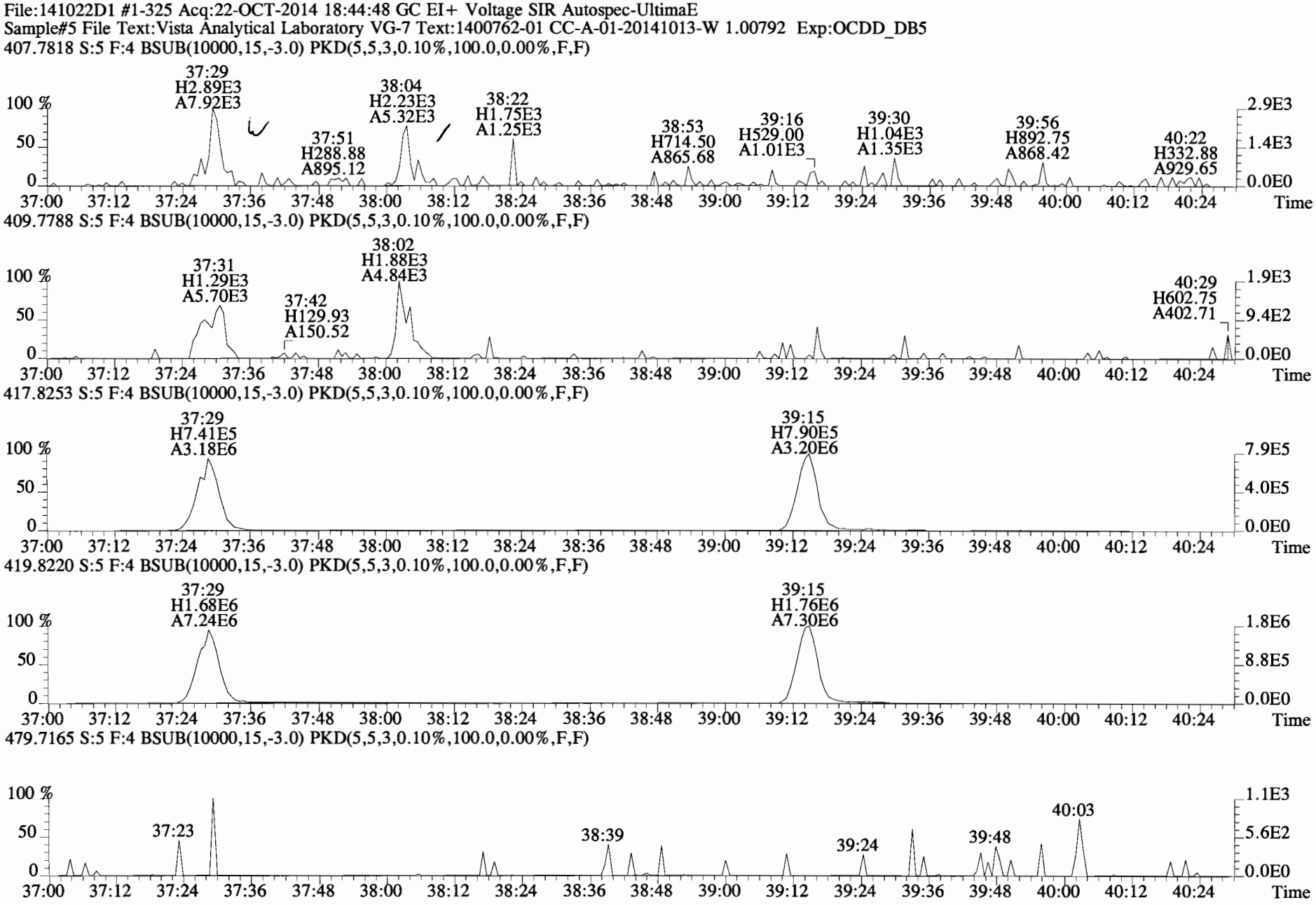
File:141022D1 #1-386 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



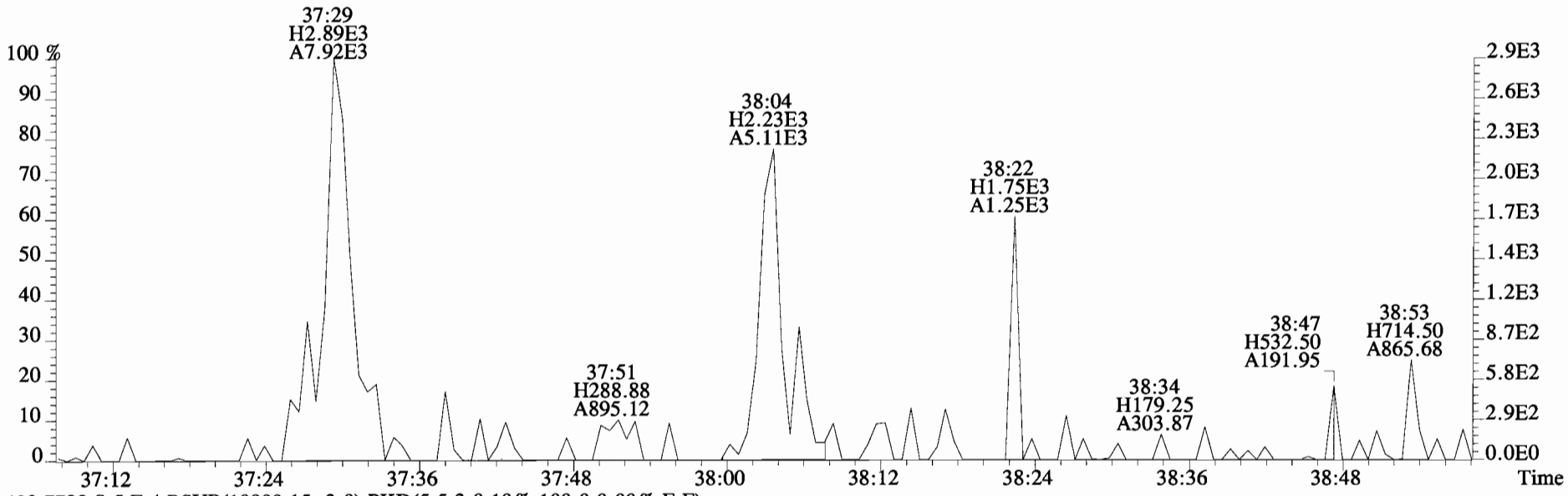
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



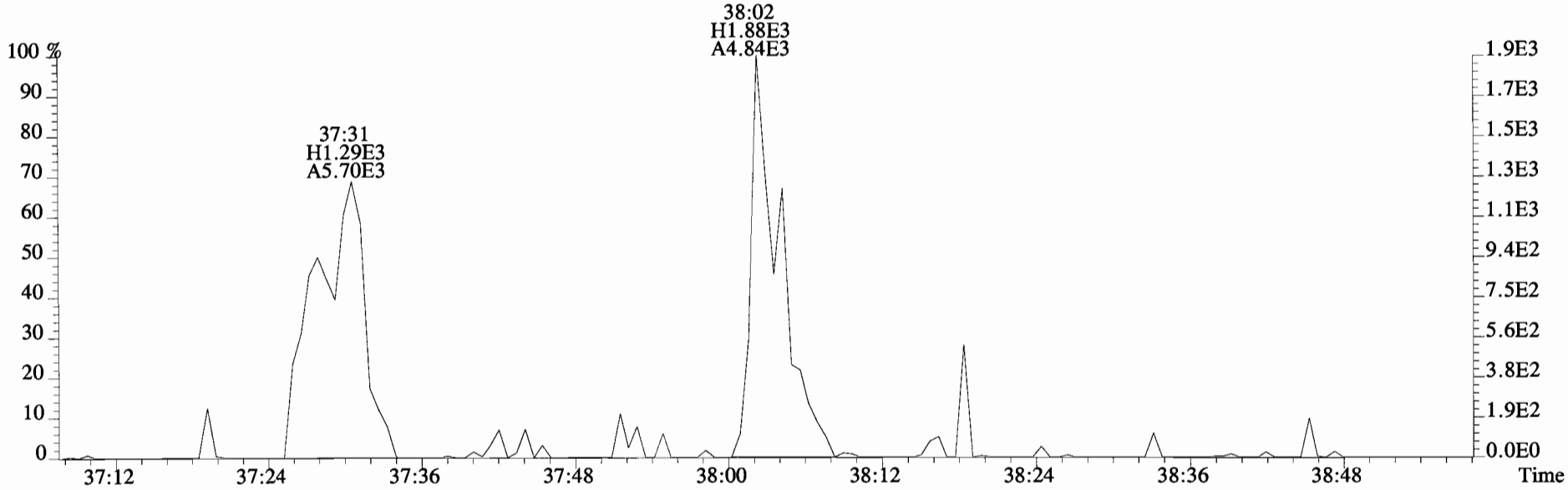
File:141022D1 #1-325 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5



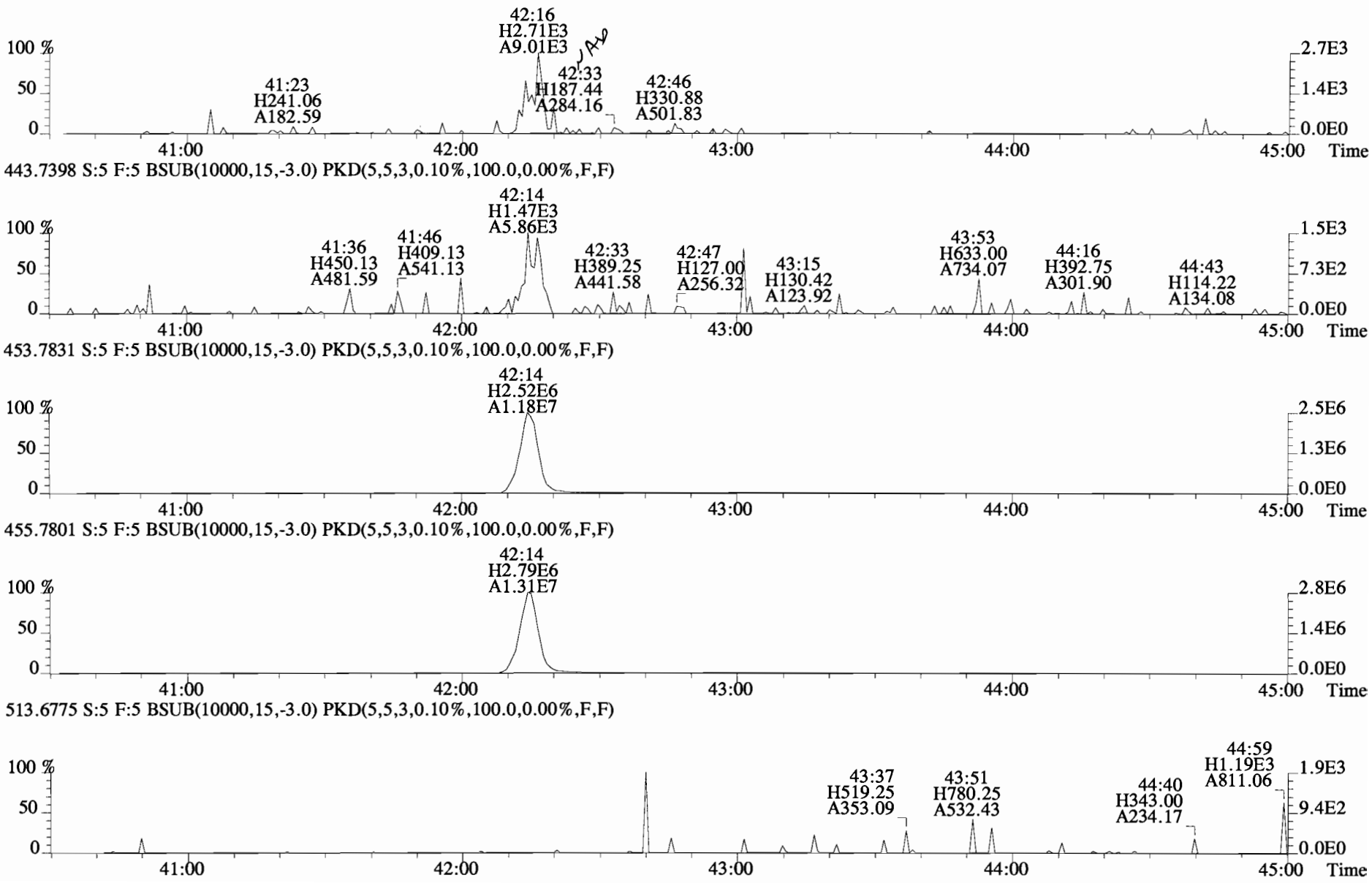
File:141022D1 #1-325 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:141022D1 #1-389 Acq:22-OCT-2014 18:44:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400762-01 CC-A-01-20141013-W 1.00792 Exp:OCDD_DB5



Client ID: CC-FD-02-20141013-W Filename: 141022D1 S:6 Acq:22-OCT-14 19:33:10 ConCal: ST141022D1-1

Lab ID: 1400762-02 GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 1.003 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	*	*	n	1.18	NotF	*	*		632	2.5	1.30
	1,2,3,7,8-PeCDD	*	*	n	0.92	NotF	*	*		478	2.5	0.770
	1,2,3,4,7,8-HxCDD	*	*	n	1.09	NotF	*	*		645	2.5	2.24
	1,2,3,6,7,8-HxCDD	*	*	n	1.07	NotF	*	*		645	2.5	2.31
	1,2,3,7,8,9-HxCDD	*	*	n	0.93	NotF	*	*		645	2.5	2.44
	1,2,3,4,6,7,8-HpCDD	3.24e+04	0.99	y	1.12	38:42	1.000	5.8165		*	2.5	*
	OCDD	1.69e+05	0.87	y	0.95	42:01	1.000	33.897		*	2.5	*
	2,3,7,8-TCDF	*	*	n	1.08	NotF	*	*		1050	2.5	1.73
	1,2,3,7,8-PeCDF	*	*	n	1.09	NotF	*	*		907	2.5	1.44
	2,3,4,7,8-PeCDF	*	*	n	1.04	NotF	*	*		907	2.5	1.69
	1,2,3,4,7,8-HxCDF	*	*	n	1.39	NotF	*	*		741	2.5	0.807
	1,2,3,6,7,8-HxCDF	*	*	n	1.26	NotF	*	*		741	2.5	0.912
	2,3,4,6,7,8-HxCDF	*	*	n	1.30	NotF	*	*		416	2.5	0.591
	1,2,3,7,8,9-HxCDF	*	*	n	1.19	NotF	*	*		416	2.5	0.817
	1,2,3,4,6,7,8-HpCDF	*	*	n	1.62	NotF	*	*		1140	2.5	2.37
	1,2,3,4,7,8,9-HpCDF	*	*	n	1.53	NotF	*	*		402	2.5	0.790
	OCDF	*	*	n	1.10	NotF	*	*		1800	1.0	2.50

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	*	*		632	1.30
Total Penta-Dioxins	*	*		734	1.18
Total Hexa-Dioxins	*	*		1030	3.70
Total Hepta-Dioxins	5.82	11.5		*	*
Total Tetra-Furans	*	*		1050	1.73
Total Penta-Furans	0.0000	0.46175		*	*
Total Hexa-Furans	*	0.960		*	*
Total Hepta-Furans	*	*		1330	2.70

									Rec	Qual
IS	13C-2,3,7,8-TCDD	1.33e+07	0.80	y	1.07	26:59	1.021	1563.4	78.4	
IS	13C-1,2,3,7,8-PeCDD	1.54e+07	0.64	y	1.24	31:29	1.192	1569.7	78.7	
IS	13C-1,2,3,4,7,8-HxCDD	1.08e+07	1.29	y	0.72	34:50	1.014	1454.4	72.9	
IS	13C-1,2,3,6,7,8-HxCDD	1.09e+07	1.25	y	0.74	34:56	1.017	1447.5	72.6	
IS	13C-1,2,3,7,8,9-HxCDD	1.30e+07	1.28	y	0.86	35:14	1.026	1478.0	74.1	
IS	13C-1,2,3,4,6,7,8-HpCDD	9.98e+06	1.07	y	0.64	38:41	1.126	1508.8	75.6	
IS	13C-OCDD	2.10e+07	0.89	y	0.78	42:01	1.223	2609.4	65.4	
IS	13C-2,3,7,8-TCDF	1.97e+07	0.77	y	0.92	26:13	0.992	1538.3	77.1	
IS	13C-1,2,3,7,8-PeCDF	2.30e+07	1.58	y	0.95	30:19	1.147	1748.7	87.7	
IS	13C-2,3,4,7,8-PeCDF	2.04e+07	1.61	y	0.97	31:13	1.181	1515.8	76.0	
IS	13C-1,2,3,4,7,8-HxCDF	1.58e+07	0.51	y	0.99	33:56	0.988	1557.4	78.1	
IS	13C-1,2,3,6,7,8-HxCDF	1.65e+07	0.52	y	1.10	34:03	0.992	1462.9	73.3	
IS	13C-2,3,4,6,7,8-HxCDF	1.50e+07	0.52	y	1.03	34:40	1.009	1412.3	70.8	
IS	13C-1,2,3,7,8,9-HxCDF	1.28e+07	0.53	y	0.86	35:38	1.038	1451.0	72.7	
IS	13C-1,2,3,4,6,7,8-HpCDF	9.95e+06	0.43	y	0.71	37:29	1.091	1358.1	68.1	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.05e+07	0.45	y	0.71	39:15	1.143	1447.8	72.6	
IS	13C-OCDF	2.40e+07	0.90	y	0.87	42:15	1.230	2677.0	67.1	
C/Up	37Cl-2,3,7,8-TCDD	6.79e+06			1.21	27:00	1.022	706.31	88.5	
RS/RT	13C-1,2,3,4-TCDD	1.58e+07	0.79	y	1.00	26:26	*	1994.7		
RS	13C-1,2,3,4-TCDF	2.76e+07	0.78	y	1.00	24:60	*	1994.7		
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.05e+07	0.52	y	1.00	34:21	*	1994.7		

Integrations by Analyst: M Date: 10/23/14

Reviewed by Analyst: Date: 10/24/14

Totals class: HpCDD EMPC Entry #: 25

Run: 11 File: 141022D1 S: 6 I: 1 F: 4
Acquired: 22-OCT-14 19:33:10 Processed: 23-OCT-14 08:38:49

Total Concentration: 11.498 Unnamed Concentration: 5.682

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
37:51	1.616e+04	2.305e+04	0.70	n	3.170e+04	5.6818	
38:42	1.616e+04	1.629e+04	0.99	y	3.245e+04	5.8165	1,2,3,4,6,7,8-HpCDD

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 11 File: 141022D1 S: 6 I: 1 F: 1
Acquired: 22-OCT-14 19:33:10 Processed: 23-OCT-14 08:38:49

Total Concentration: 0.46175 Unnamed Concentration: 0.462

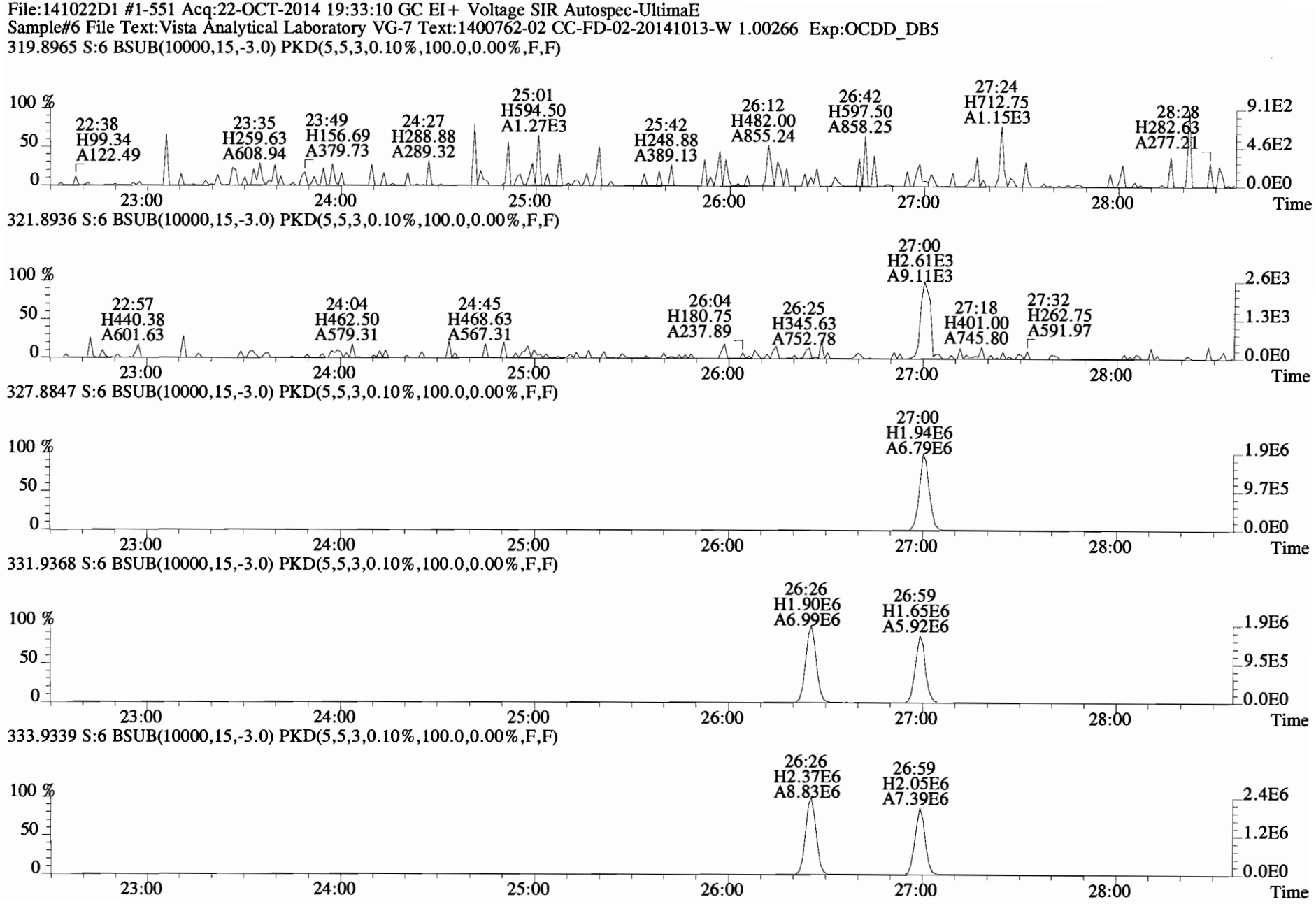
RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
27:58	3.250e+03	3.434e+03	0.95	n	5.347e+03	0.46175	

Totals class: HxCDF EMPC Entry #: 33

Run: 11 File: 141022D1 S: 6 I: 1 F: 3
Acquired: 22-OCT-14 19:33:10 Processed: 23-OCT-14 08:38:49

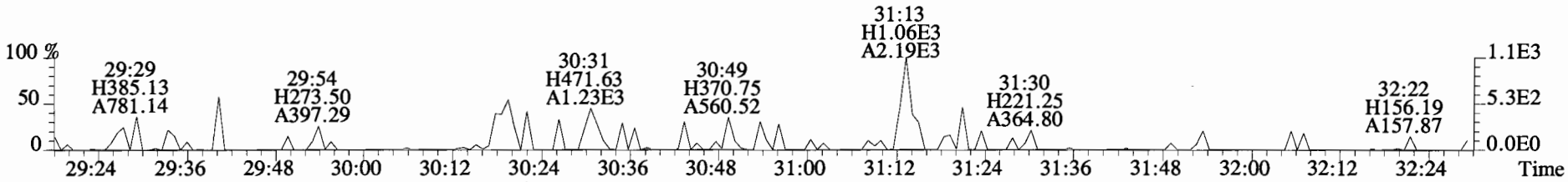
Total Concentration: 0.95954 Unnamed Concentration: 0.960

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
32:54	5.152e+03	5.483e+03	0.94	n	9.307e+03	0.95954	

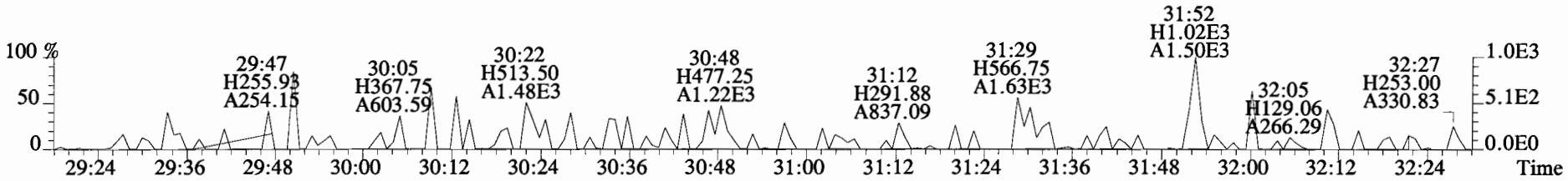

File:141022D1 #1-551 Acq:22-OCT-2014 19:33:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400762-02 CC-FD-02-20141013-W 1.00266 Exp:OCDD_DB5
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
22:38 H99.34 A122.49
23:35 H259.63 A608.94
23:49 H156.69 A379.73
24:27 H288.88 A289.32
25:01 H594.50 A1.27E3
25:42 H248.88 A389.13
26:12 H482.00 A855.24
26:42 H597.50 A858.25
27:24 H712.75 A1.15E3
28:28 H282.63 A277.21
9.1E2
4.6E2
0.0E0
321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
22:57 H440.38 A601.63
24:04 H462.50 A579.31
24:45 H468.63 A567.31
26:04 H180.75 A237.89
26:25 H345.63 A752.78
27:00 H2.61E3 A9.11E3
27:18 H401.00 A745.80
27:32 H262.75 A591.97
2.6E3
1.3E3
0.0E0
327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
27:00 H1.94E6 A6.79E6
1.9E6
9.7E5
0.0E0
331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
26:26 H1.90E6 A6.99E6
26:59 H1.65E6 A5.92E6
1.9E6
9.5E5
0.0E0
333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
26:26 H2.37E6 A8.83E6
26:59 H2.05E6 A7.39E6
2.4E6
1.2E6
0.0E0
100 %
50
0
23:00
24:00
25:00
26:00
27:00
28:00
Time

File:141022D1 #1-256 Acq:22-OCT-2014 19:33:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400762-02 CC-FD-02-20141013-W 1.00266 Exp:OCDD_DB5

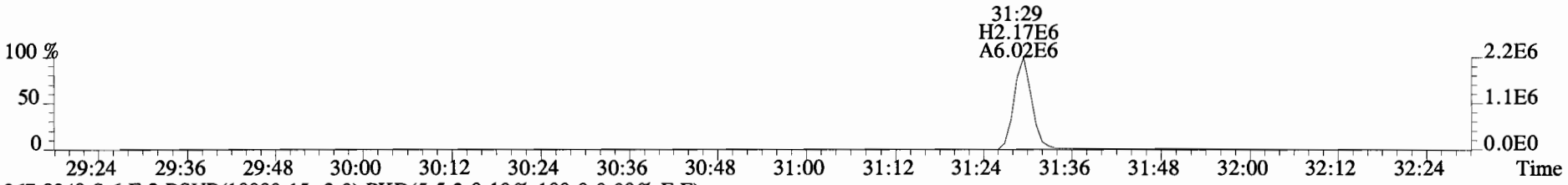
353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



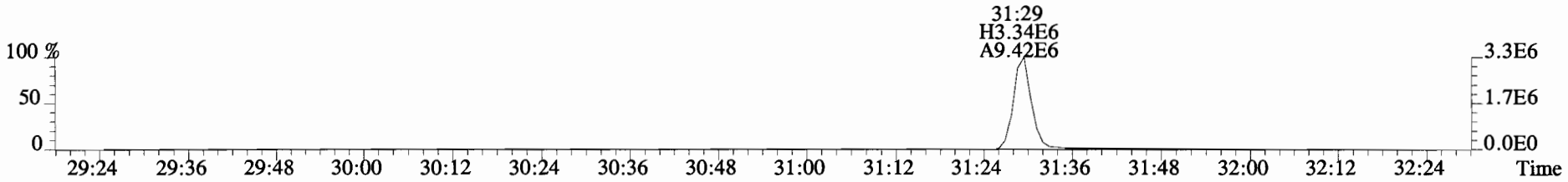
355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



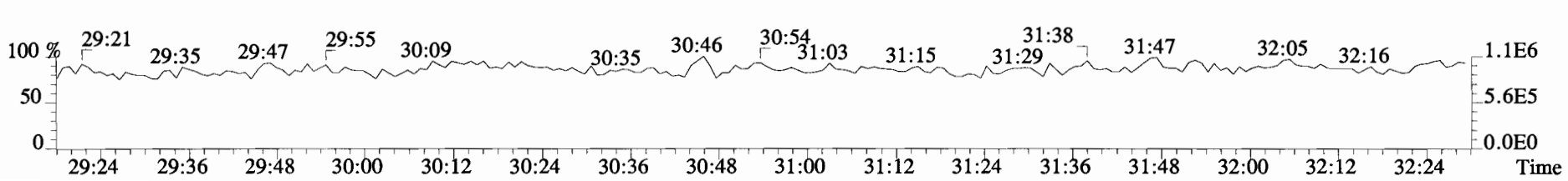
365.8978 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



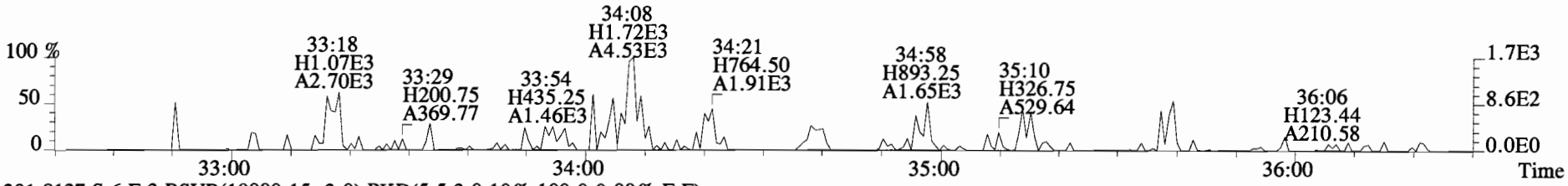
367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



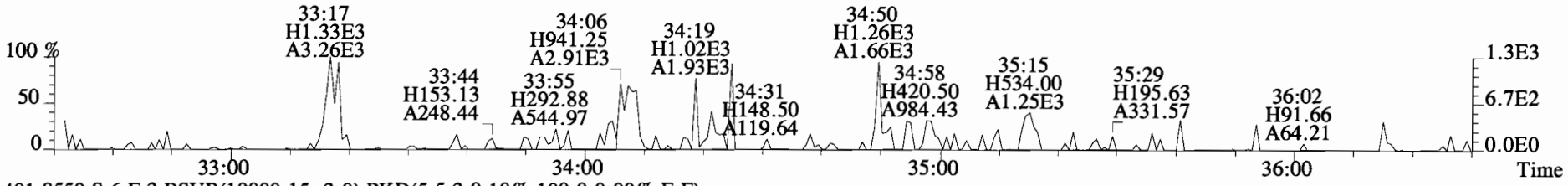
366.9792 S:6 F:2



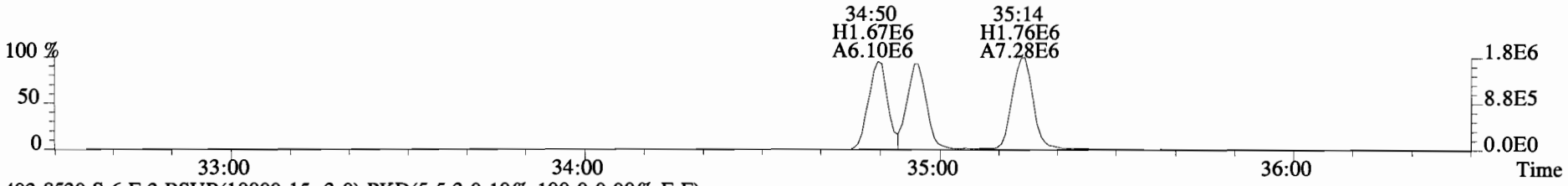
File:141022D1 #1-386 Acq:22-OCT-2014 19:33:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400762-02 CC-FD-02-20141013-W 1.00266 Exp:OCDD_DB5
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



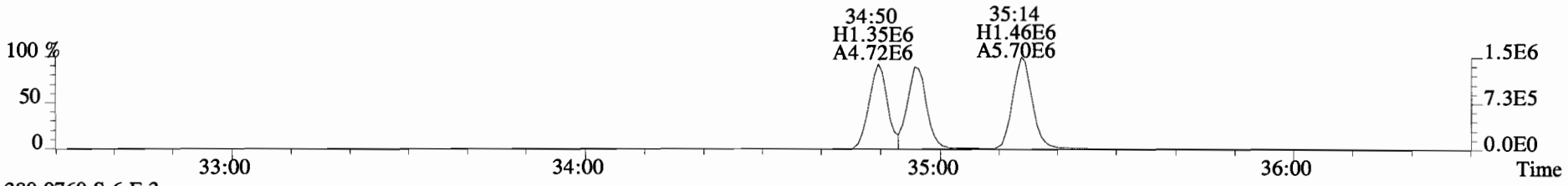
391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



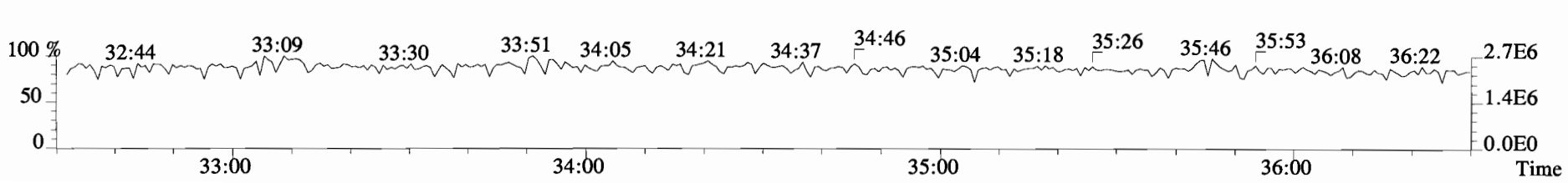
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



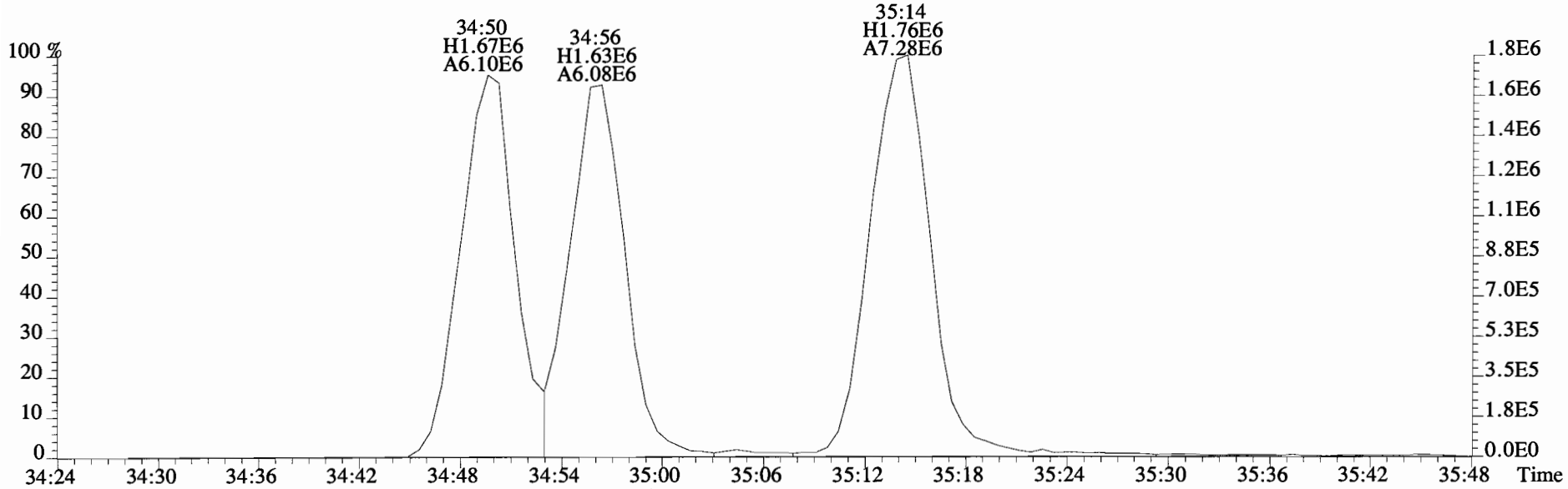
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



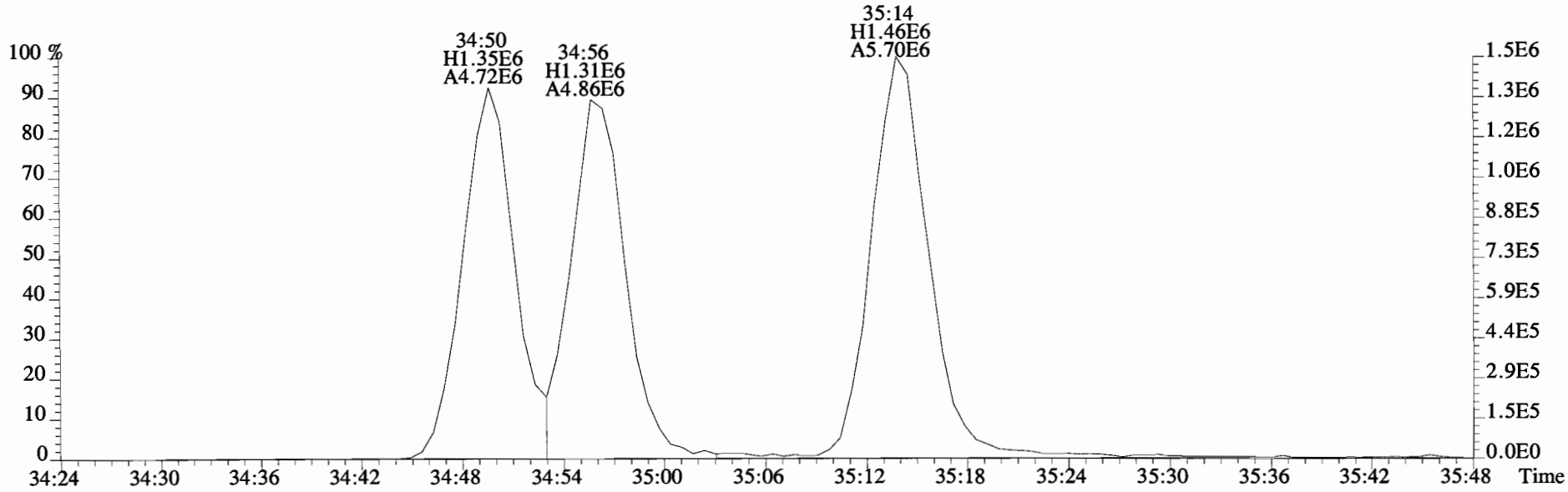
380.9760 S:6 F:3



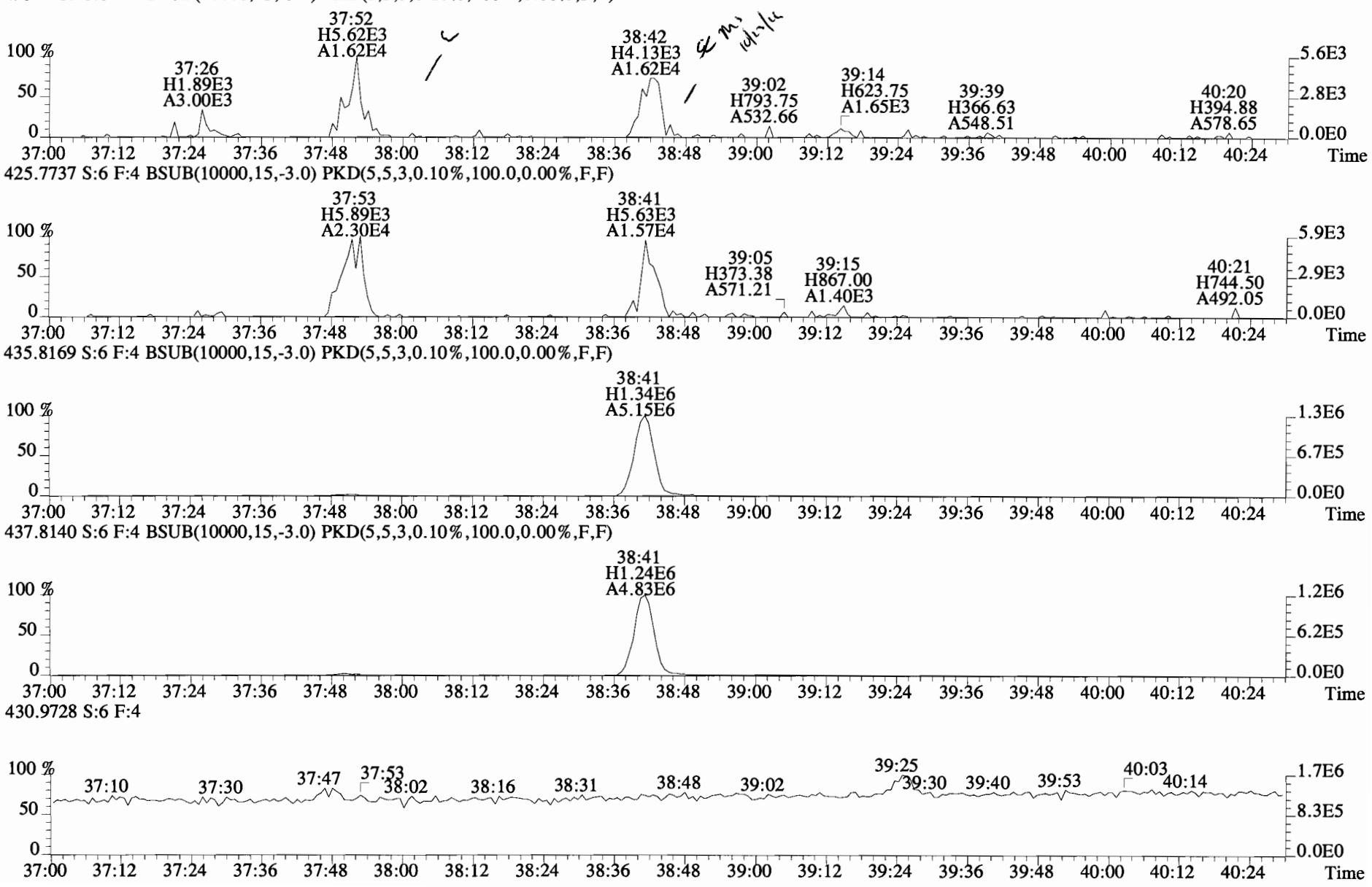
File:141022D1 #1-386 Acq:22-OCT-2014 19:33:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400762-02 CC-FD-02-20141013-W 1.00266 Exp:OCDD_DB5
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



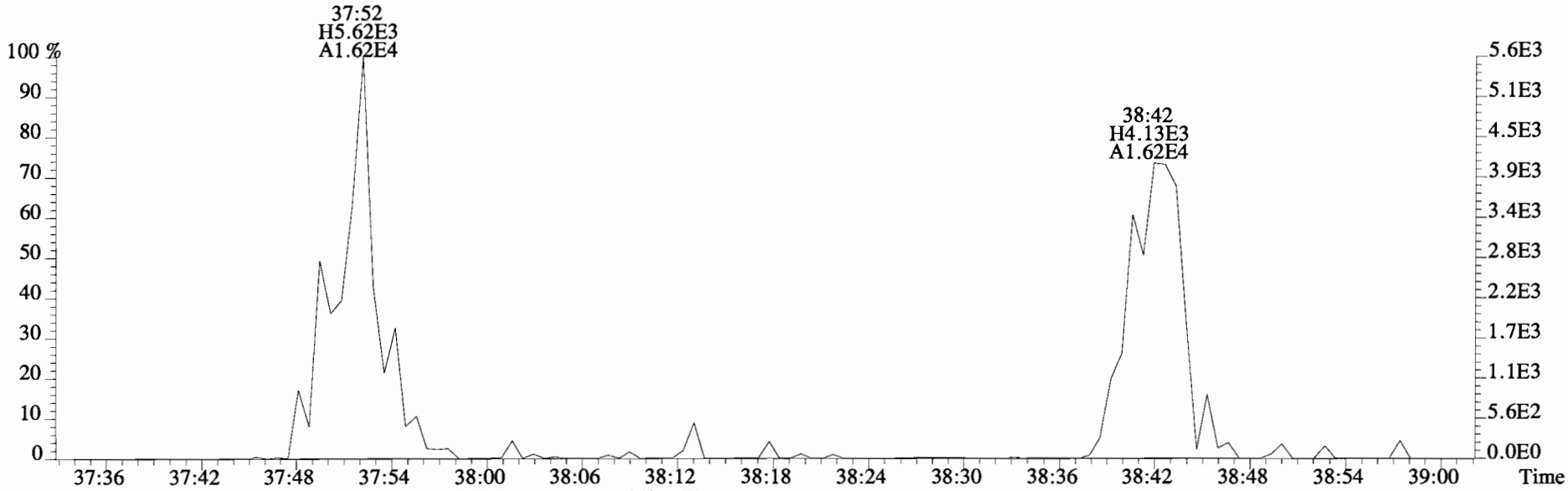
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



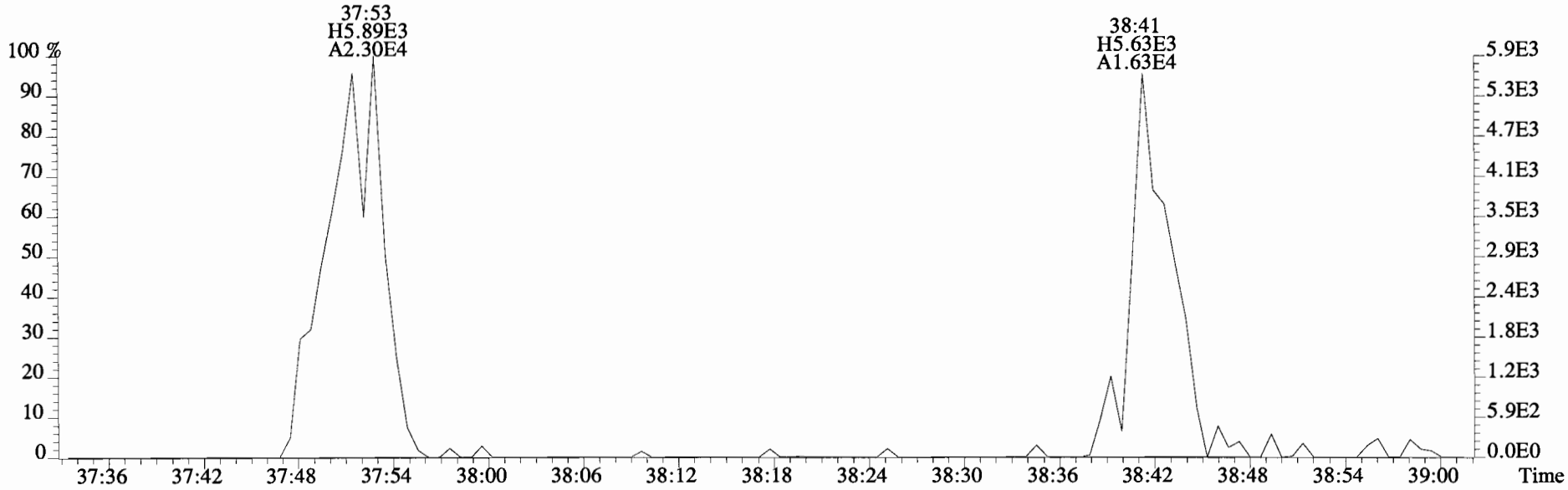
File:141022D1 #1-325 Acq:22-OCT-2014 19:33:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400762-02 CC-FD-02-20141013-W 1.00266 Exp:OCDD_DB5



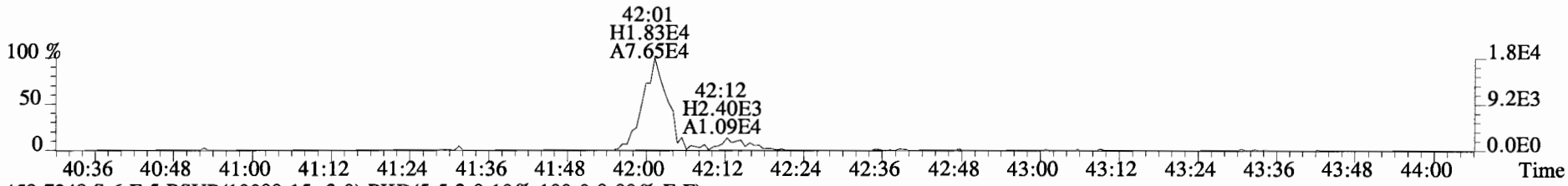
File:141022D1 #1-325 Acq:22-OCT-2014 19:33:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400762-02 CC-FD-02-20141013-W 1.00266 Exp:OCDD_DB5
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



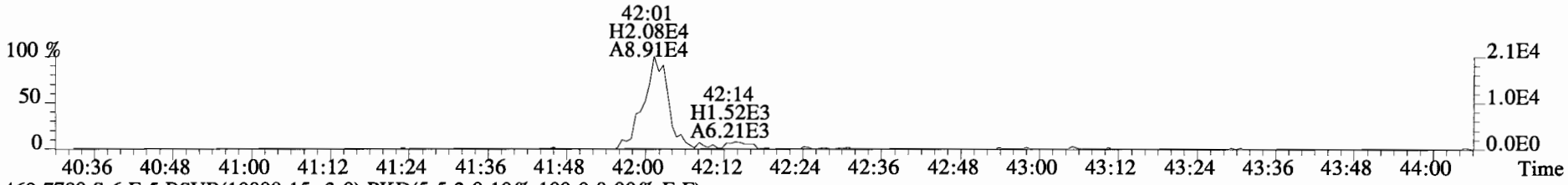
425.7737 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



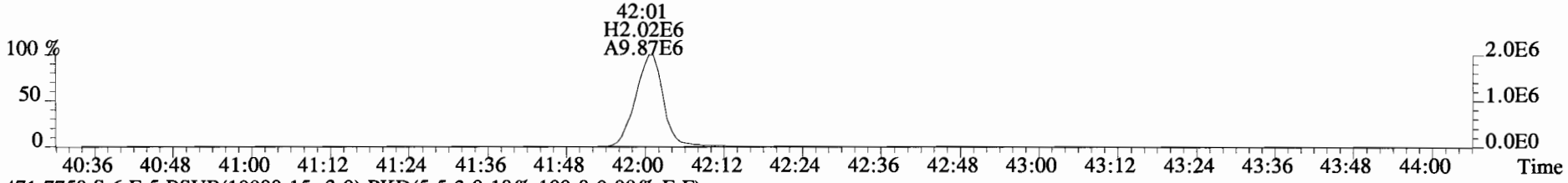
File:141022D1 #1-389 Acq:22-OCT-2014 19:33:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400762-02 CC-FD-02-20141013-W 1.00266 Exp:OCDD_DB5
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



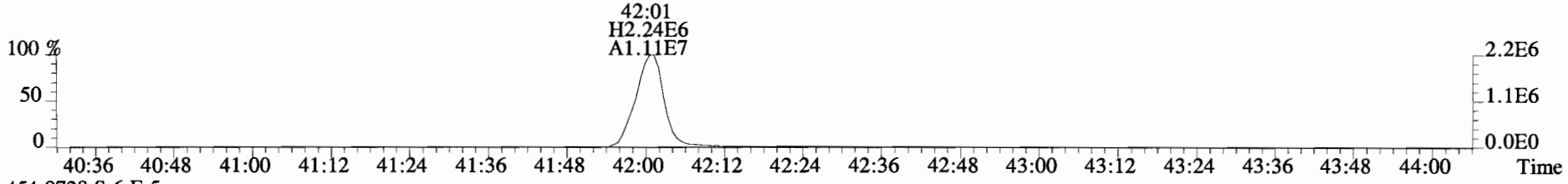
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



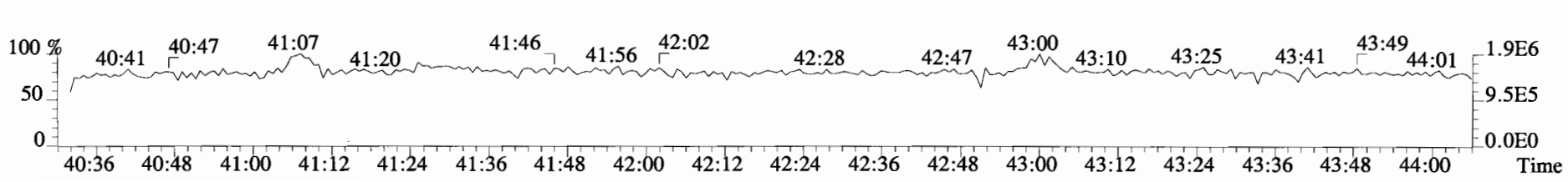
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



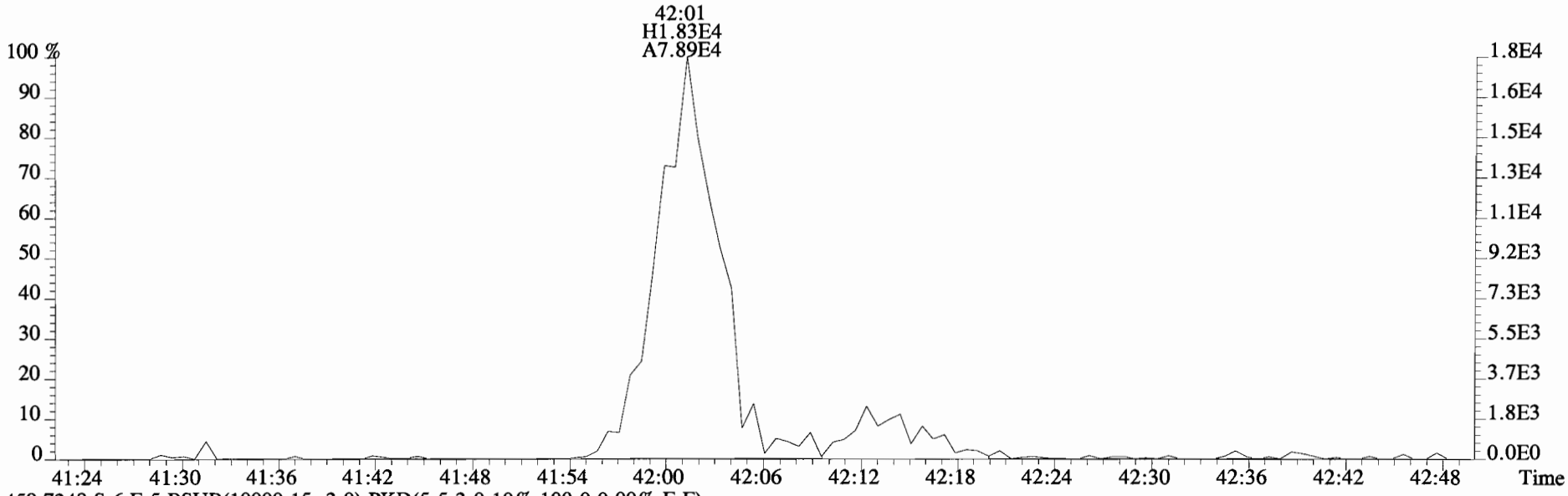
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



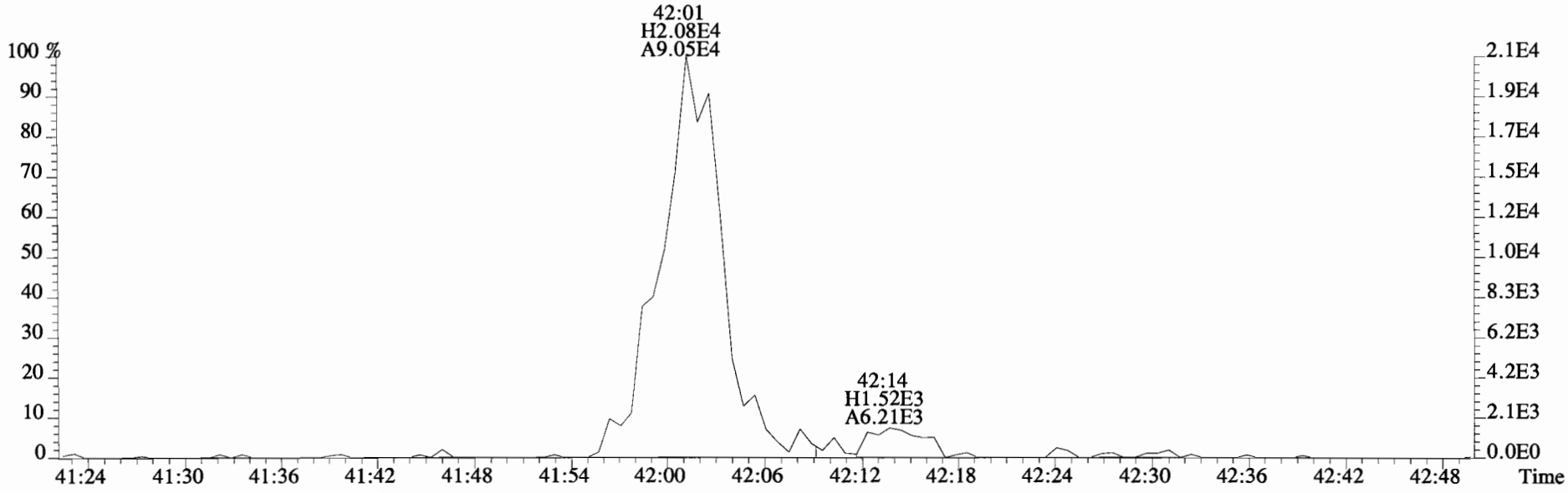
454.9728 S:6 F:5



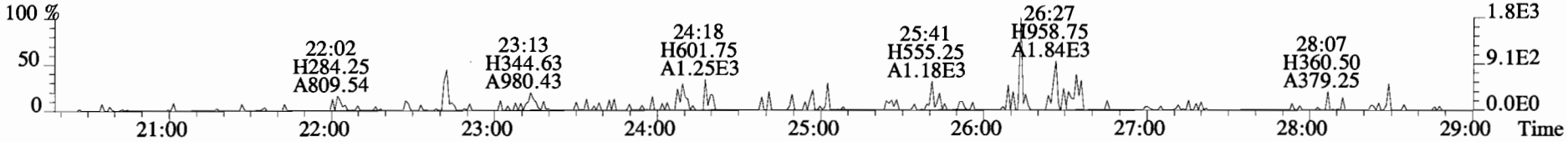
File:141022D1 #1-389 Acq:22-OCT-2014 19:33:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400762-02 CC-FD-02-20141013-W 1.00266 Exp:OCDD_DB5
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



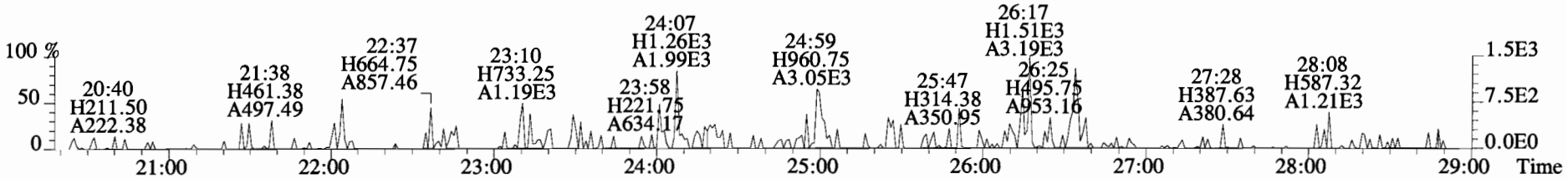
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



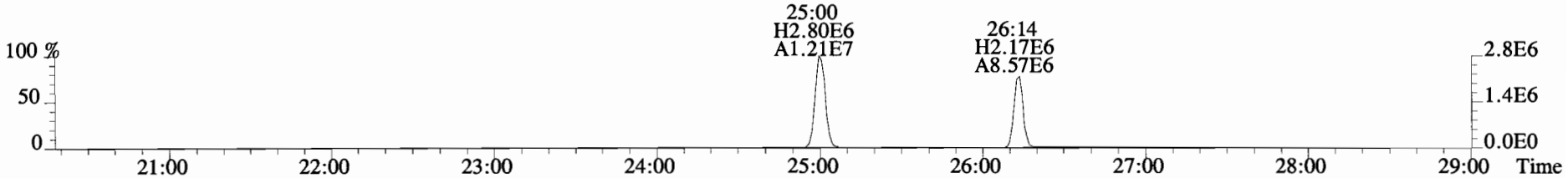
File:141022D1 #1-551 Acq:22-OCT-2014 19:33:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400762-02 CC-FD-02-20141013-W 1.00266 Exp:OCDD_DB5
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



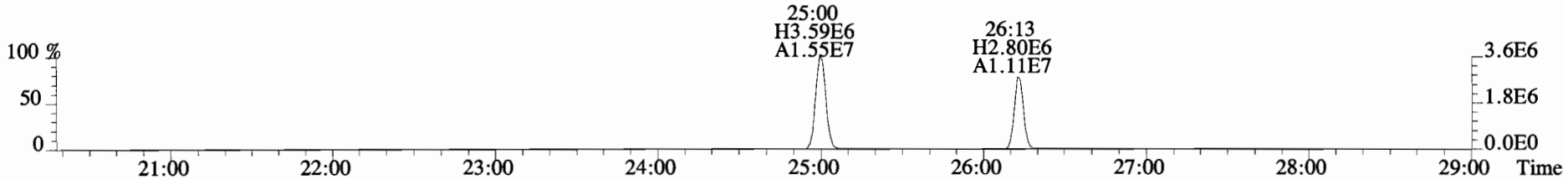
305.8987 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



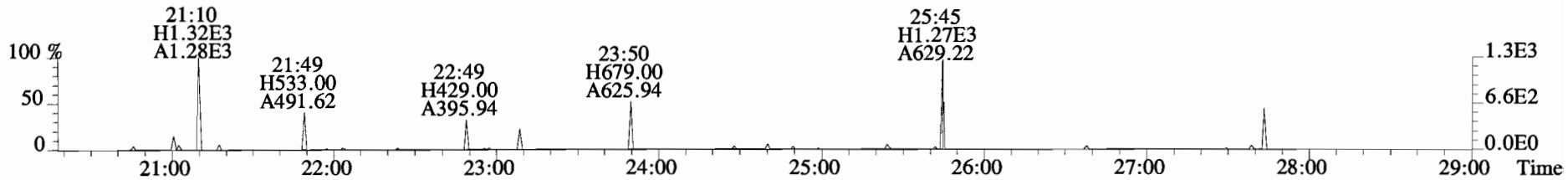
315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



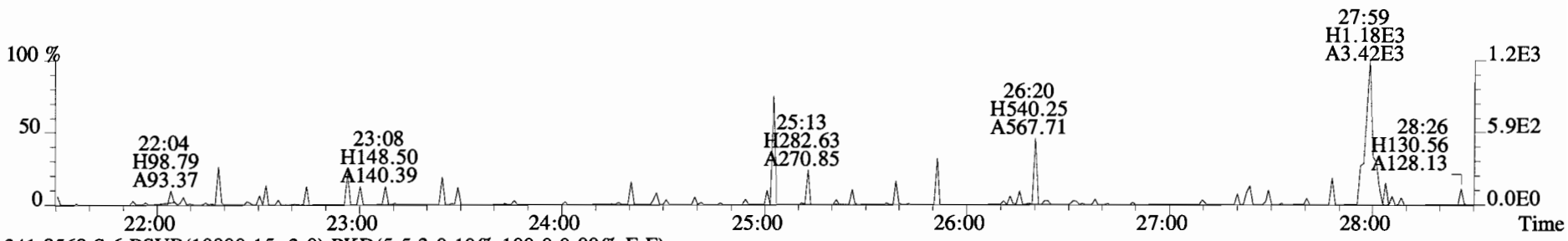
317.9389 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



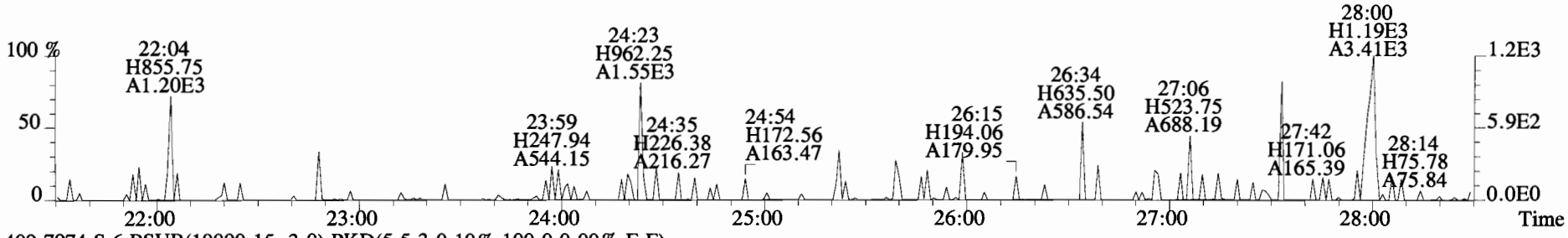
375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



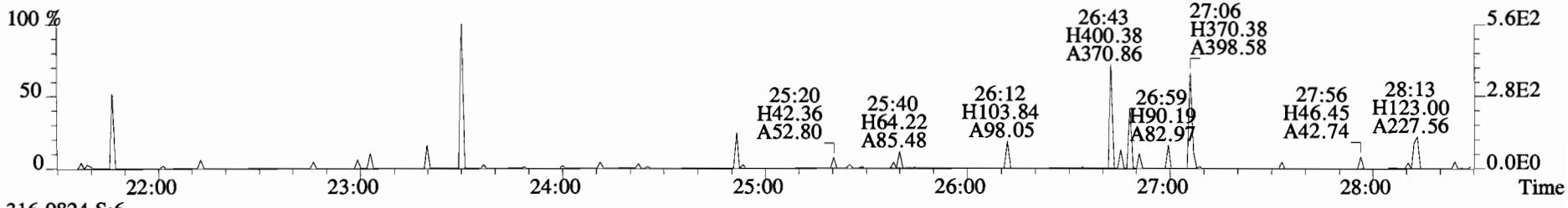
File:141022D1 #1-551 Acq:22-OCT-2014 19:33:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400762-02 CC-FD-02-20141013-W 1.00266 Exp:OCDD_DB5
339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



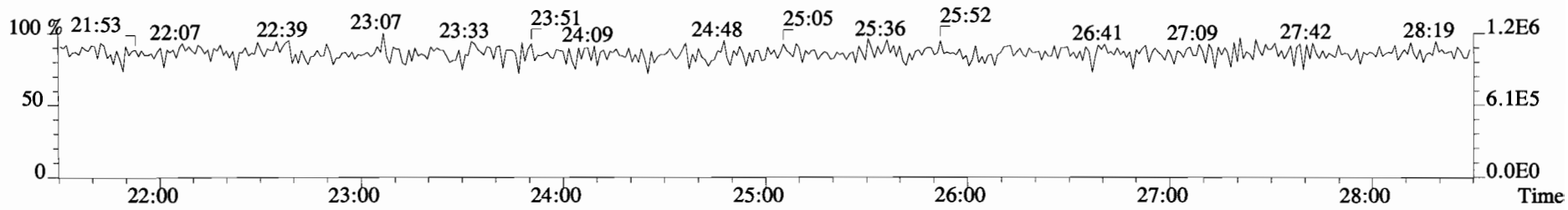
341.8568 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



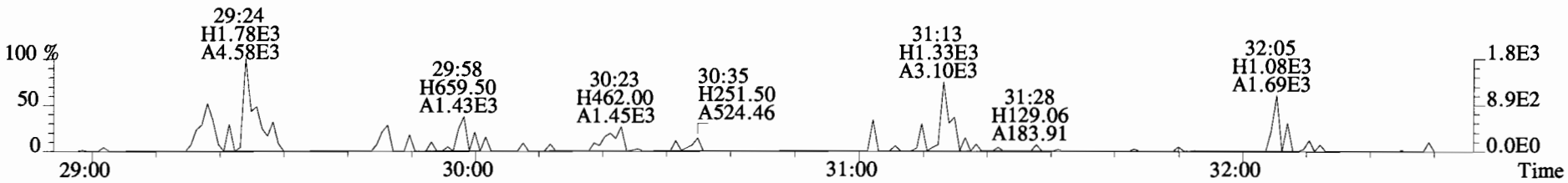
409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



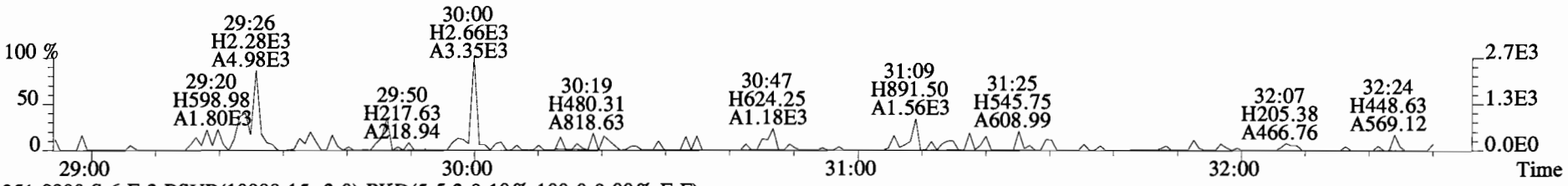
316.9824 S:6



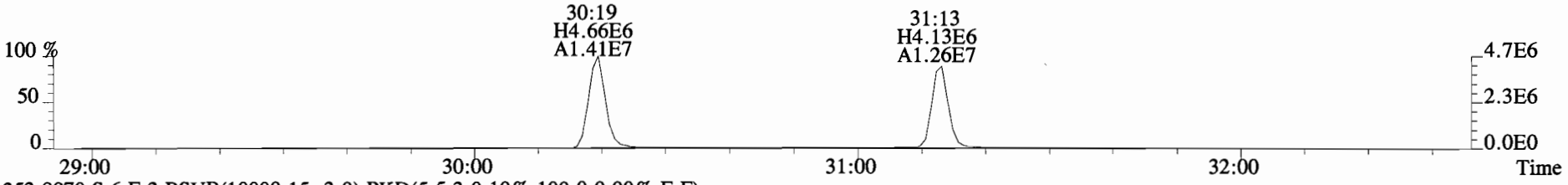
File:141022D1 #1-256 Acq:22-OCT-2014 19:33:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400762-02 CC-FD-02-20141013-W 1.00266 Exp:OCDD_DB5
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



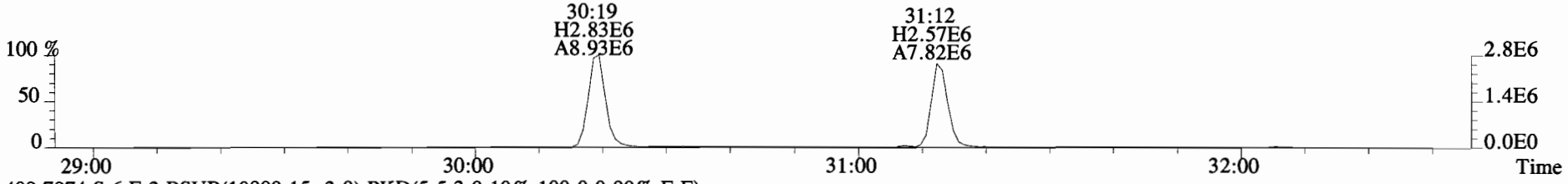
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



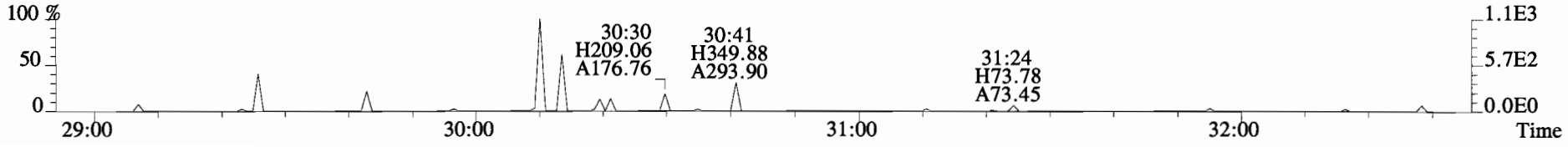
351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



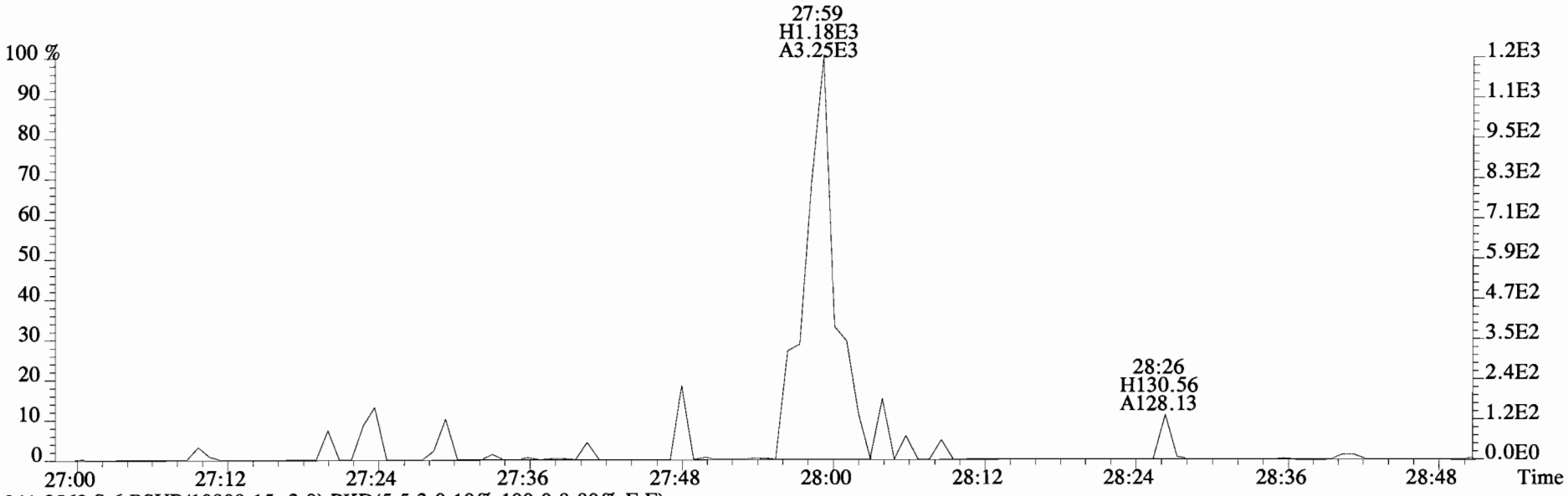
353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



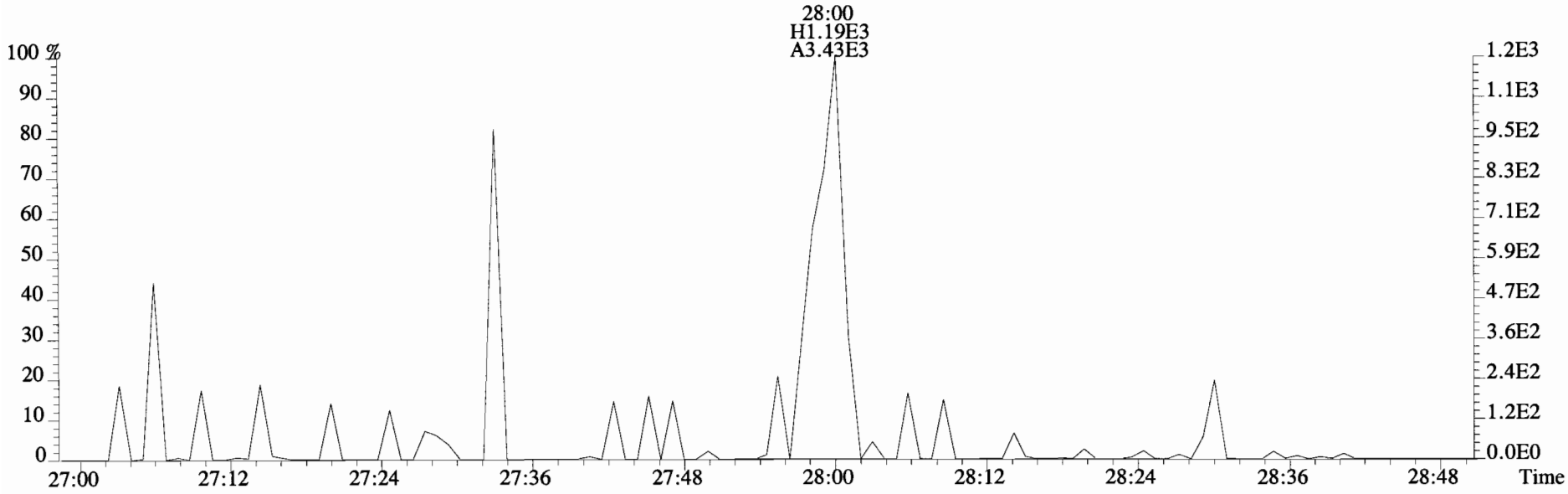
409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:141022D1 #1-551 Acq:22-OCT-2014 19:33:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400762-02 CC-FD-02-20141013-W 1.00266 Exp:OCDD_DB5
339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

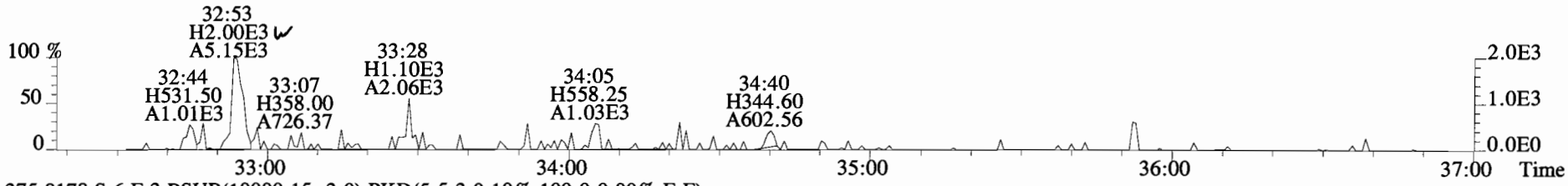


341.8568 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

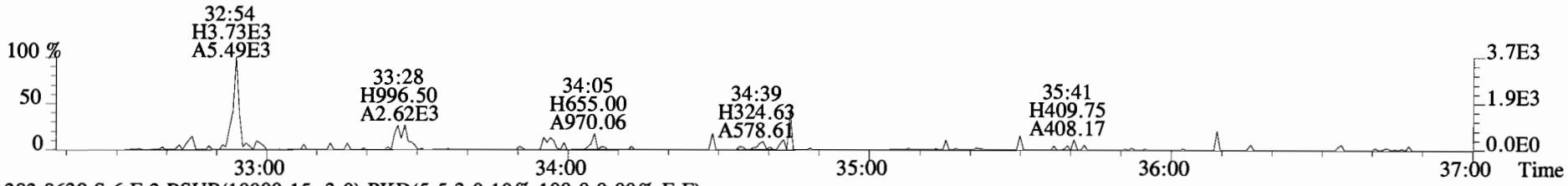


File:141022D1 #1-386 Acq:22-OCT-2014 19:33:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400762-02 CC-FD-02-20141013-W 1.00266 Exp:OCDD_DB5

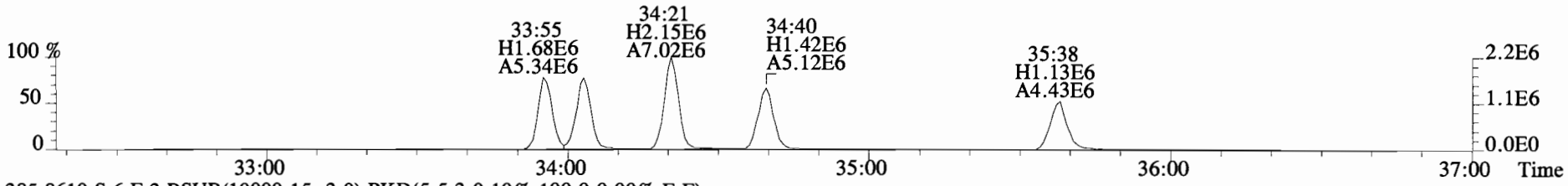
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



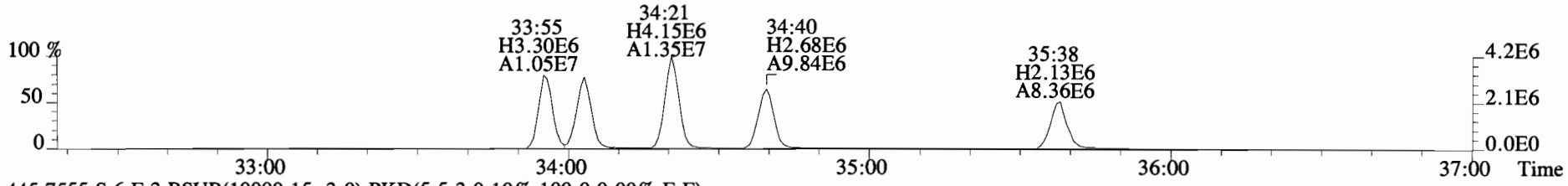
375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



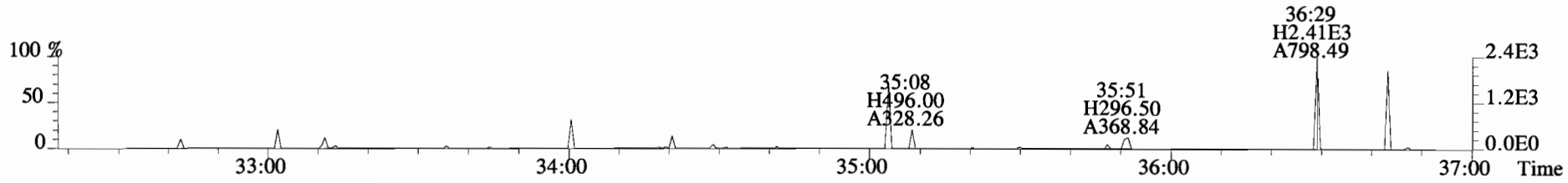
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



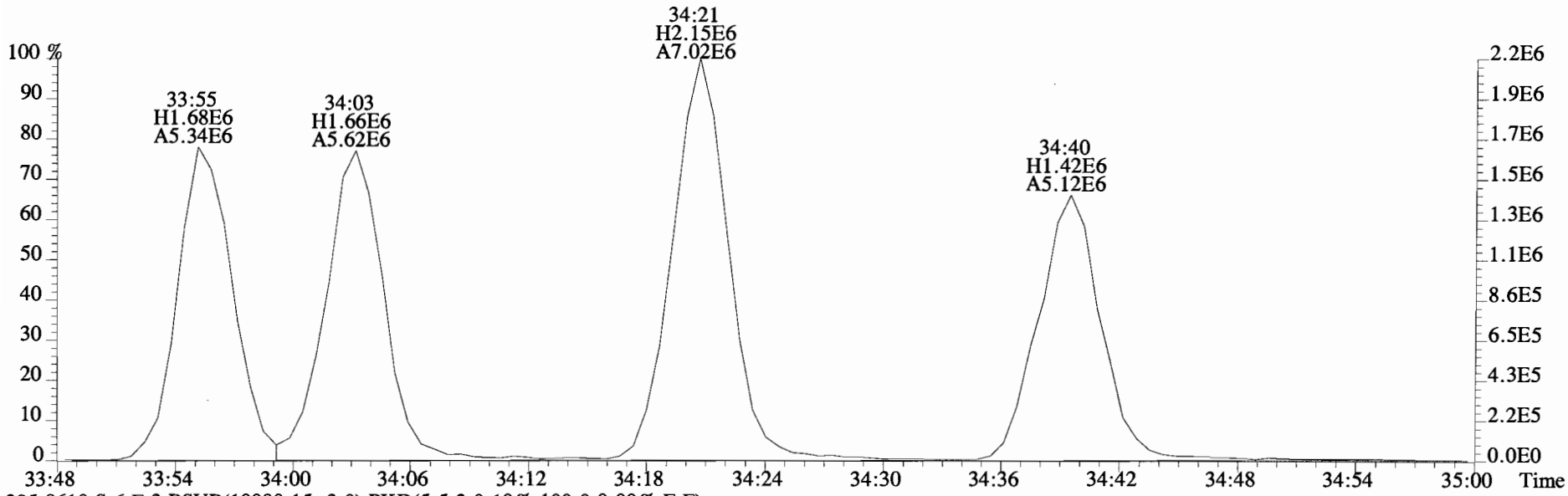
385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



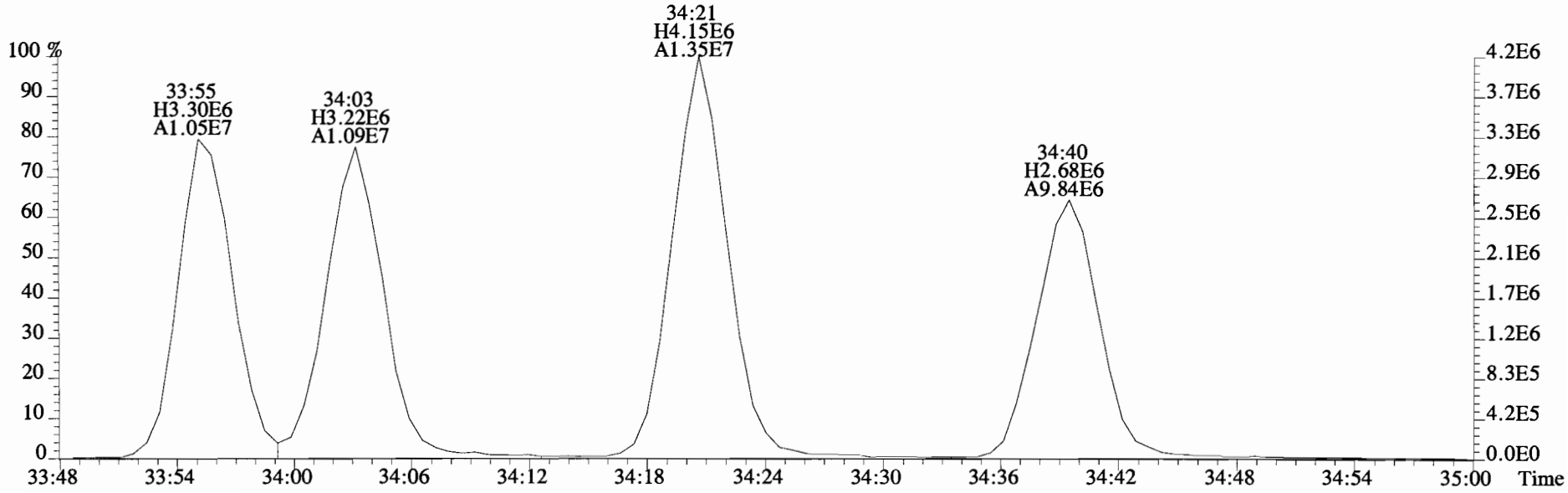
445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



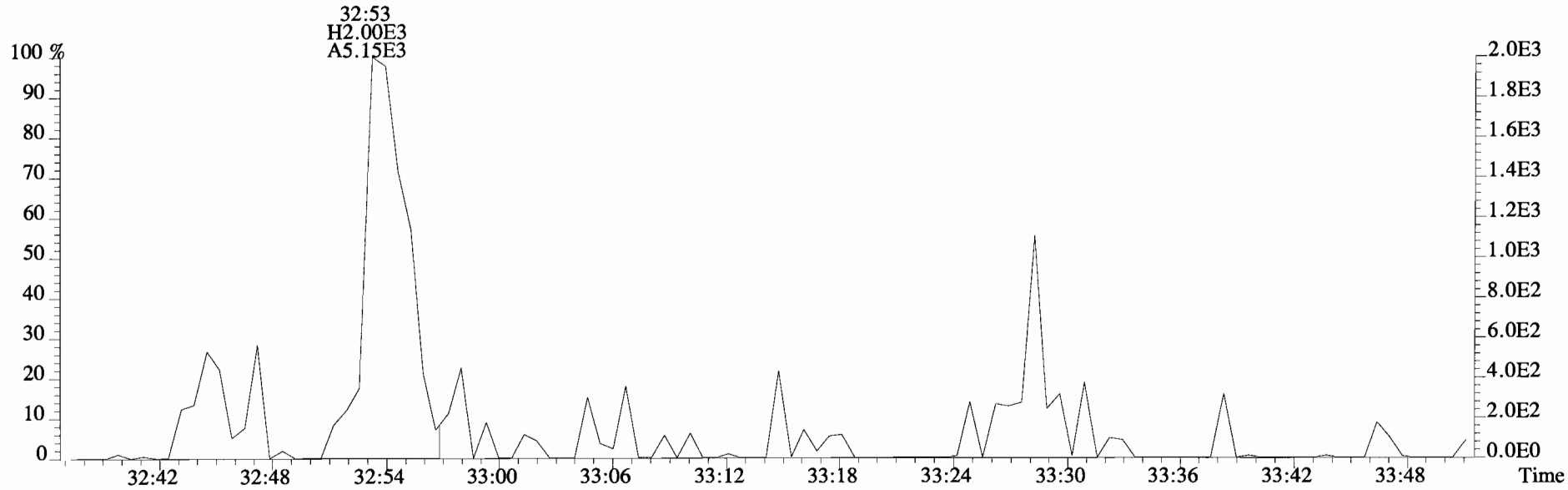
File:141022D1 #1-386 Acq:22-OCT-2014 19:33:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400762-02 CC-FD-02-20141013-W 1.00266 Exp:OCDD_DB5
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



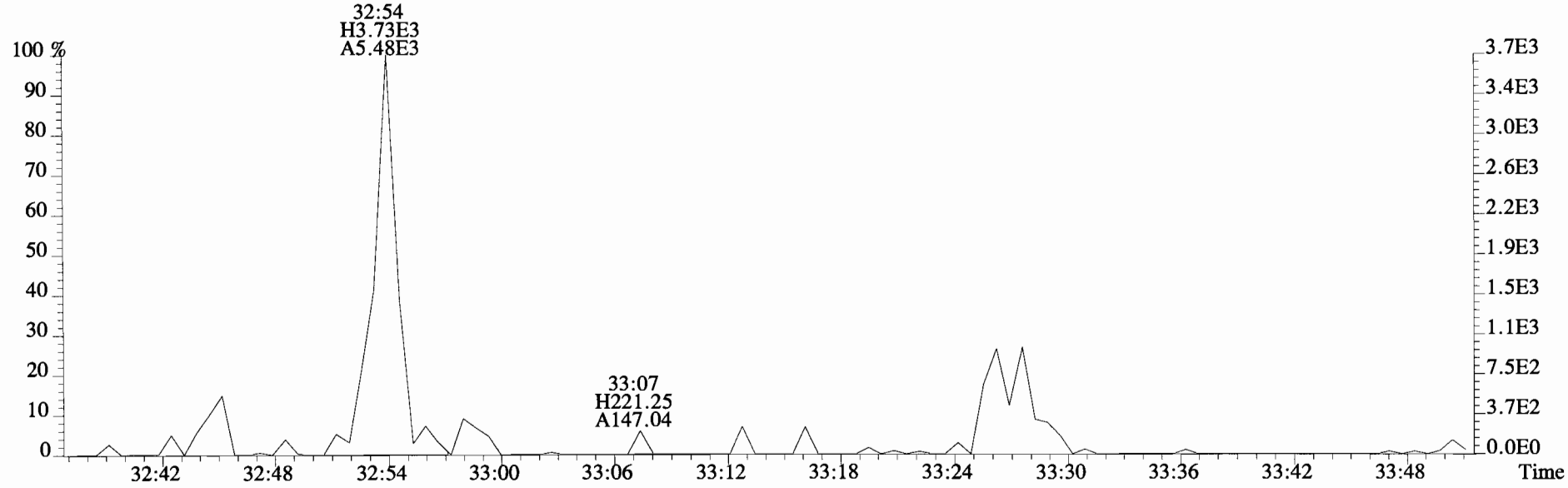
385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



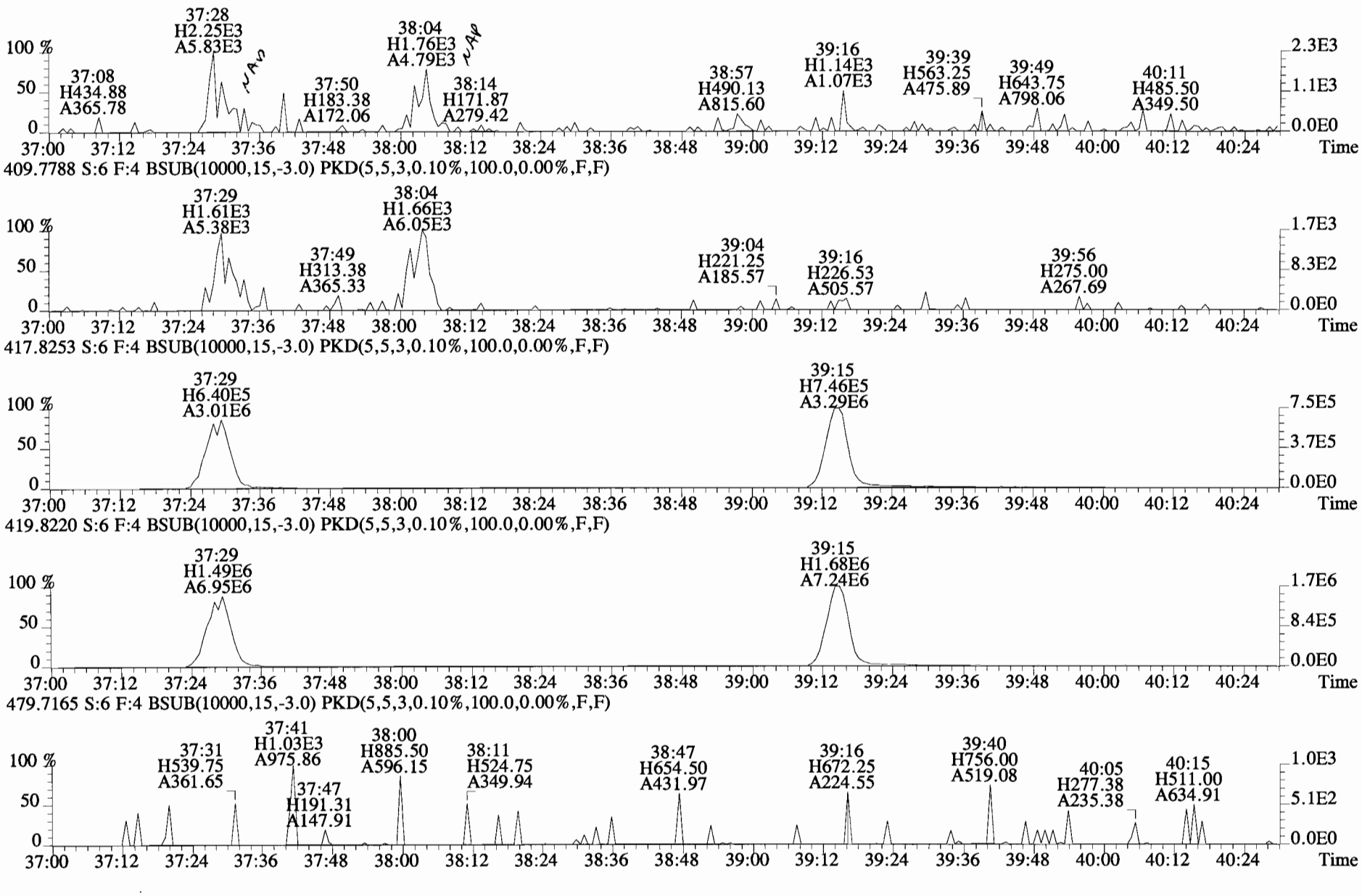
File:141022D1 #1-386 Acq:22-OCT-2014 19:33:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400762-02 CC-FD-02-20141013-W 1.00266 Exp:OCDD_DB5
373.8207 S:6 F:3 BSUB(10000,15,-3.0)



375.8178 S:6 F:3 BSUB(10000,15,-3.0)

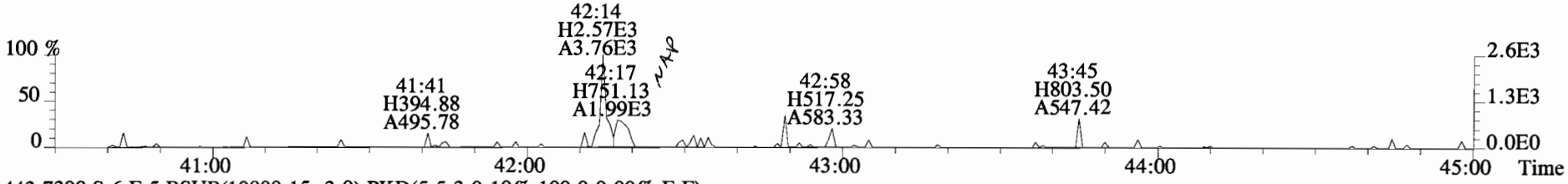


File:141022D1 #1-325 Acq:22-OCT-2014 19:33:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400762-02 CC-FD-02-20141013-W 1.00266 Exp:OCDD_DB5

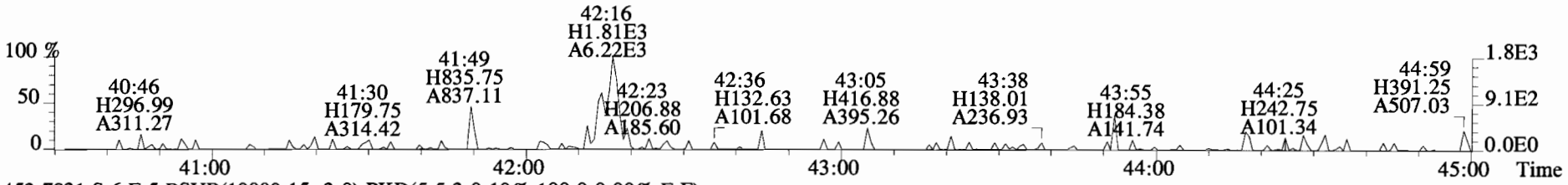


File:141022D1 #1-389 Acq:22-OCT-2014 19:33:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400762-02 CC-FD-02-20141013-W 1.00266 Exp:OCDD_DB5

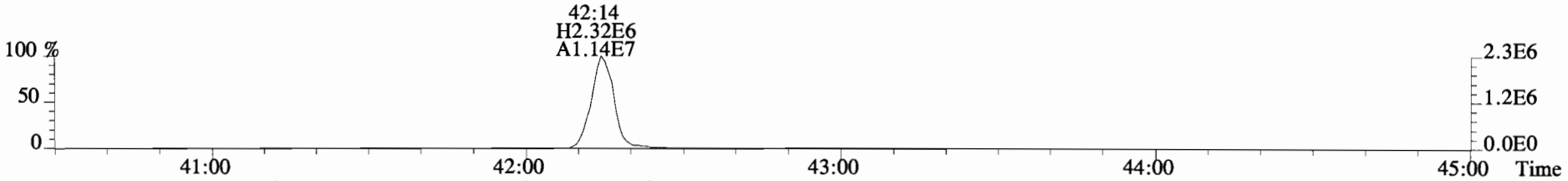
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



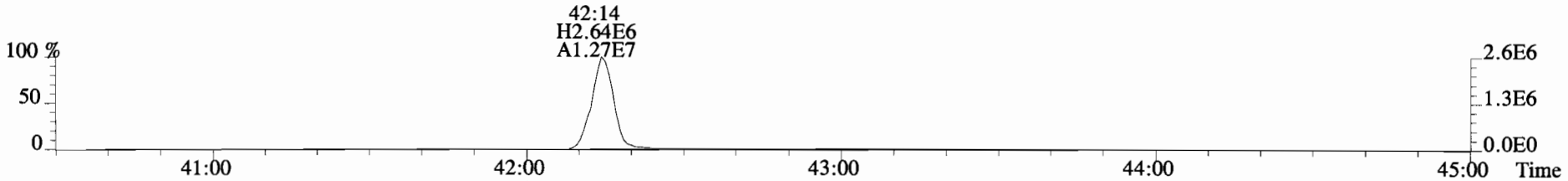
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



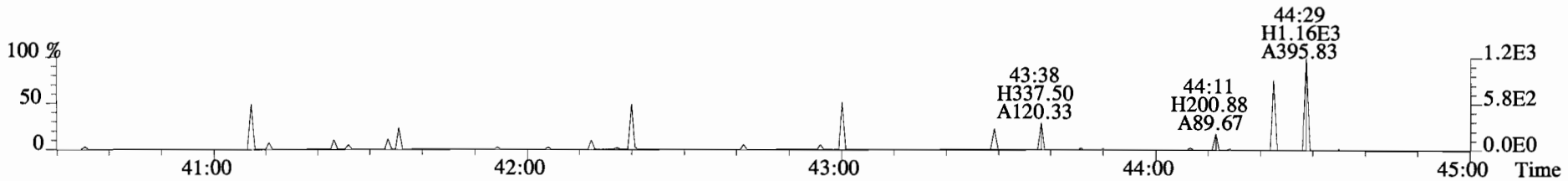
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Client ID: Method Blank Filename: 141023D2 S:5 Acq:23-OCT-14 21:43:05 ConCal: ST141023D2-1
Lab ID: B4J0118-BLK1 GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol:10.000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	*	*	n	1.18	NotF╗	*	*		669	2.5	0.108
	1,2,3,7,8-PeCDD	*	*	n	0.92	NotF╗	*	*		1720	2.5	0.231
	1,2,3,4,7,8-HxCDD	*	*	n	1.09	NotF╗	*	*		443	2.5	0.117
	1,2,3,6,7,8-HxCDD	*	*	n	1.07	NotF╗	*	*		443	2.5	0.124
	1,2,3,7,8,9-HxCDD	*	*	n	0.93	NotF╗	*	*		443	2.5	0.125
	1,2,3,4,6,7,8-HpCDD	*	*	n	1.12	NotF╗	*	*		473	2.5	0.125
	OCDD	*	*	n	0.95	NotF╗	*	*		803	2.5	0.271
	2,3,7,8-TCDF	*	*	n	1.08	NotF╗	*	*		632	2.5	0.0790
	1,2,3,7,8-PeCDF	*	*	n	1.09	NotF╗	*	*		412	2.5	0.0593
	2,3,4,7,8-PeCDF	*	*	n	1.04	NotF╗	*	*		412	2.5	0.0631
	1,2,3,4,7,8-HxCDF	*	*	n	1.39	NotF╗	*	*		549	2.5	0.0451
	1,2,3,6,7,8-HxCDF	*	*	n	1.26	NotF╗	*	*		549	2.5	0.0523
	2,3,4,6,7,8-HxCDF	*	*	n	1.30	NotF╗	*	*		325	2.5	0.0340
	1,2,3,7,8,9-HxCDF	*	*	n	1.19	NotF╗	*	*		325	2.5	0.0495
	1,2,3,4,6,7,8-HpCDF	*	*	n	1.62	NotF╗	*	*		1040	2.5	0.167
	1,2,3,4,7,8,9-HpCDF	*	*	n	1.53	NotF╗	*	*		1040	2.5	0.145
	OCDF	*	*	n	1.10	NotF╗	*	*		1070	1.0	0.102

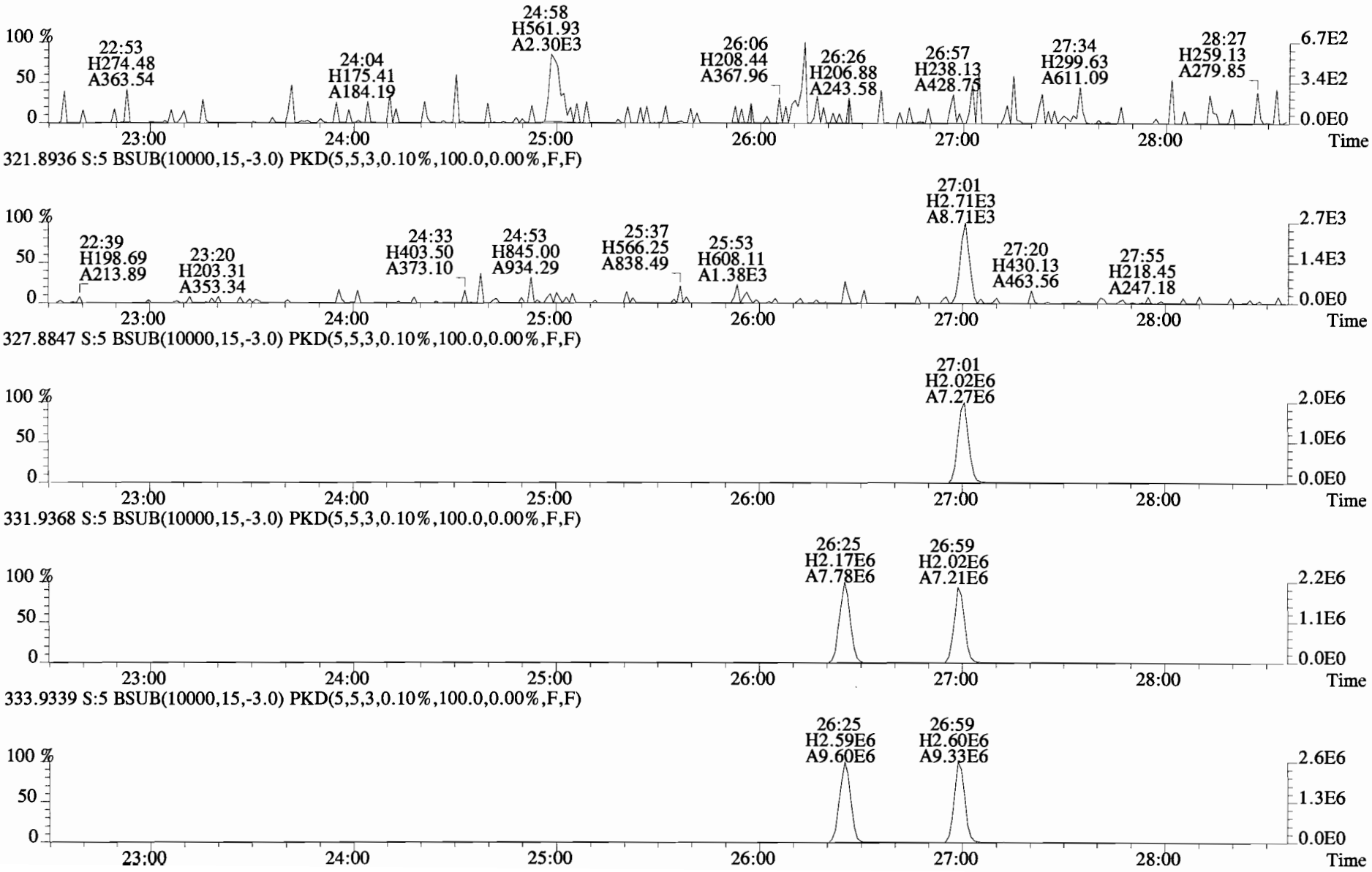
Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	*	*		669	0.108
Total Penta-Dioxins	*	*		1720	0.231
Total Hexa-Dioxins	*	*		717	0.197
Total Hepta-Dioxins	*	*		473	0.125
Total Tetra-Furans	*	*		632	0.0790
Total Penta-Furans	0.0000	0.0000		672	0.0998
Total Hexa-Furans	*	*		549	0.0579
Total Hepta-Furans	*	*		1620	0.243

									Rec	Qual
IS	13C-2,3,7,8-TCDD	1.65e+07	0.77	y	1.07	26:59	1.022	177.28	88.6	
IS	13C-1,2,3,7,8-PeCDD	1.86e+07	0.63	y	1.24	31:29	1.192	172.66	86.3	
IS	13C-1,2,3,4,7,8-HxCDD	1.32e+07	1.23	y	0.72	34:49	1.014	159.65	79.8	
IS	13C-1,2,3,6,7,8-HxCDD	1.33e+07	1.30	y	0.74	34:56	1.017	158.64	79.3	
IS	13C-1,2,3,7,8,9-HxCDD	1.53e+07	1.28	y	0.86	35:14	1.026	157.53	78.8	
IS	13C-1,2,3,4,6,7,8-HpCDD	1.20e+07	1.07	y	0.64	38:41	1.126	163.30	81.6	
IS	13C-OCDD	2.49e+07	0.87	y	0.78	42:01	1.223	278.92	69.7	
IS	13C-2,3,7,8-TCDF	2.40e+07	0.75	y	0.92	26:13	0.992	166.85	83.4	
IS	13C-1,2,3,7,8-PeCDF	2.49e+07	1.62	y	0.95	30:19	1.147	168.34	84.2	
IS	13C-2,3,4,7,8-PeCDF	2.49e+07	1.62	y	0.97	31:13	1.181	165.02	82.5	
IS	13C-1,2,3,4,7,8-HxCDF	1.96e+07	0.51	y	0.99	33:55	0.988	173.42	86.7	
IS	13C-1,2,3,6,7,8-HxCDF	2.11e+07	0.53	y	1.10	34:03	0.991	169.00	84.5	
IS	13C-2,3,4,6,7,8-HxCDF	1.94e+07	0.52	y	1.03	34:40	1.009	164.94	82.5	
IS	13C-1,2,3,7,8,9-HxCDF	1.64e+07	0.52	y	0.86	35:38	1.037	167.37	83.7	
IS	13C-1,2,3,4,6,7,8-HpCDF	1.22e+07	0.42	y	0.71	37:29	1.091	150.01	75.0	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.21e+07	0.44	y	0.71	39:15	1.143	149.82	74.9	
IS	13C-OCDF	2.88e+07	0.90	y	0.87	42:15	1.230	289.38	72.3	
C/Up	37Cl-2,3,7,8-TCDD	7.27e+06			1.21	27:01	1.022	68.991	86.2	
RS/RT	13C-1,2,3,4-TCDD	1.74e+07	0.81	y	1.00	26:25	*	200.00		
RS	13C-1,2,3,4-TCDF	3.11e+07	0.76	y	1.00	24:60	*	200.00		
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.28e+07	0.52	y	1.00	34:21	*	200.00		

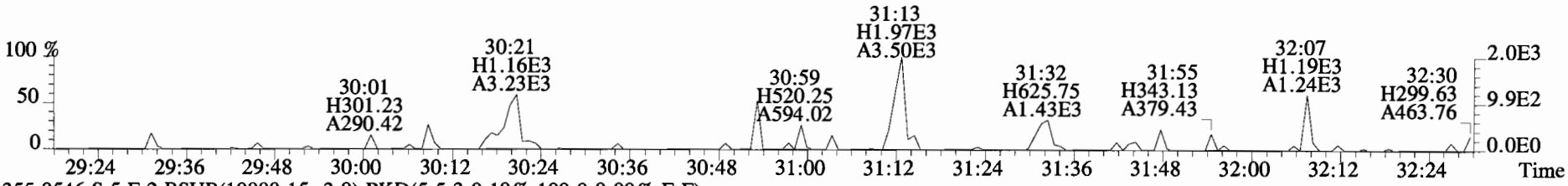
Integrations by Analyst: (M) Date: 10/24/14

Reviewed by Analyst: Date: 10/24/14

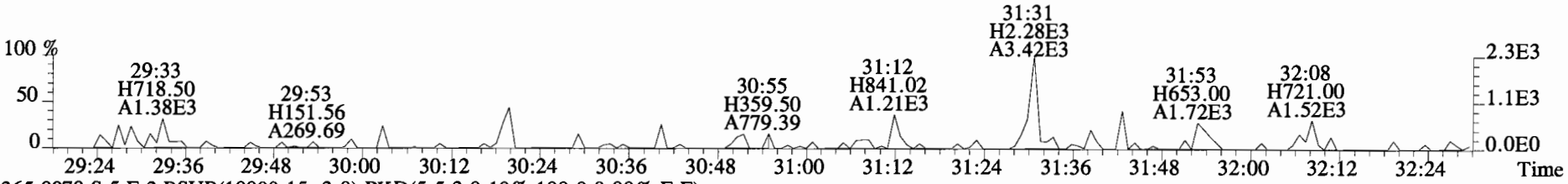
File:141023D2 #1-551 Acq:23-OCT-2014 21:43:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BLK1 Method Blank 10 Exp:OCDD_DB5



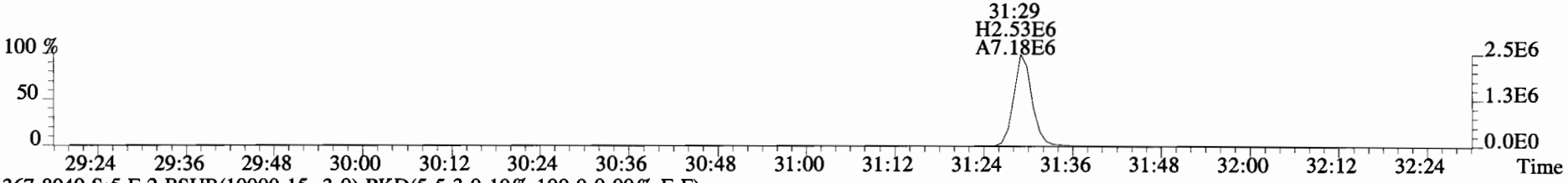
File:141023D2 #1-257 Acq:23-OCT-2014 21:43:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BLK1 Method Blank 10 Exp:OCDD_DB5
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



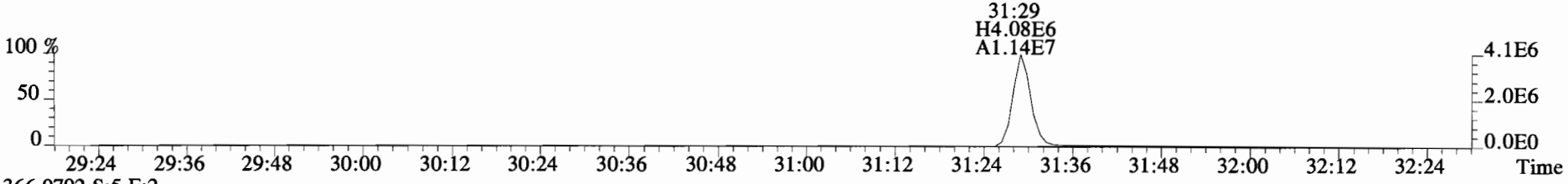
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



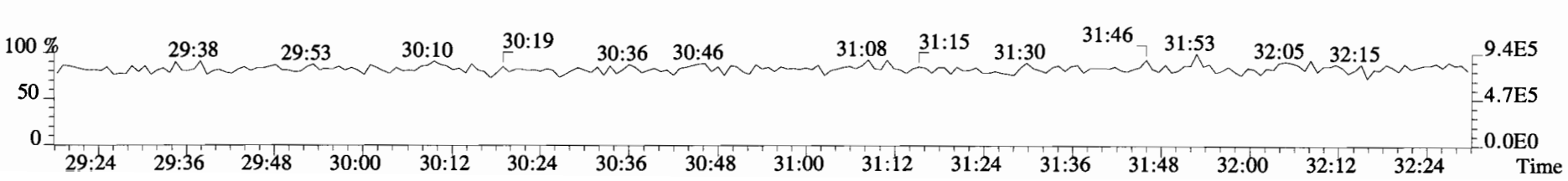
365.8978 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

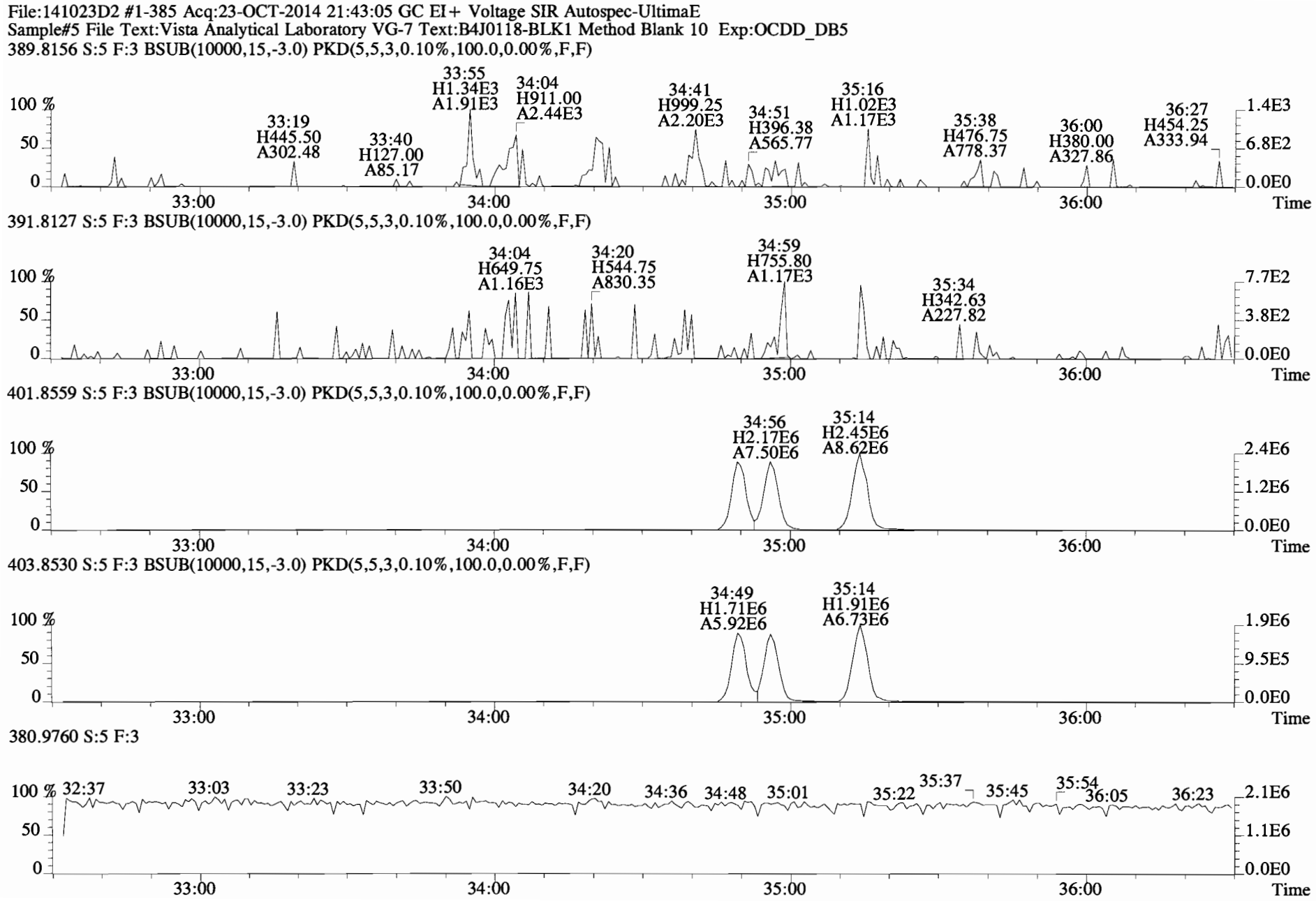


367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

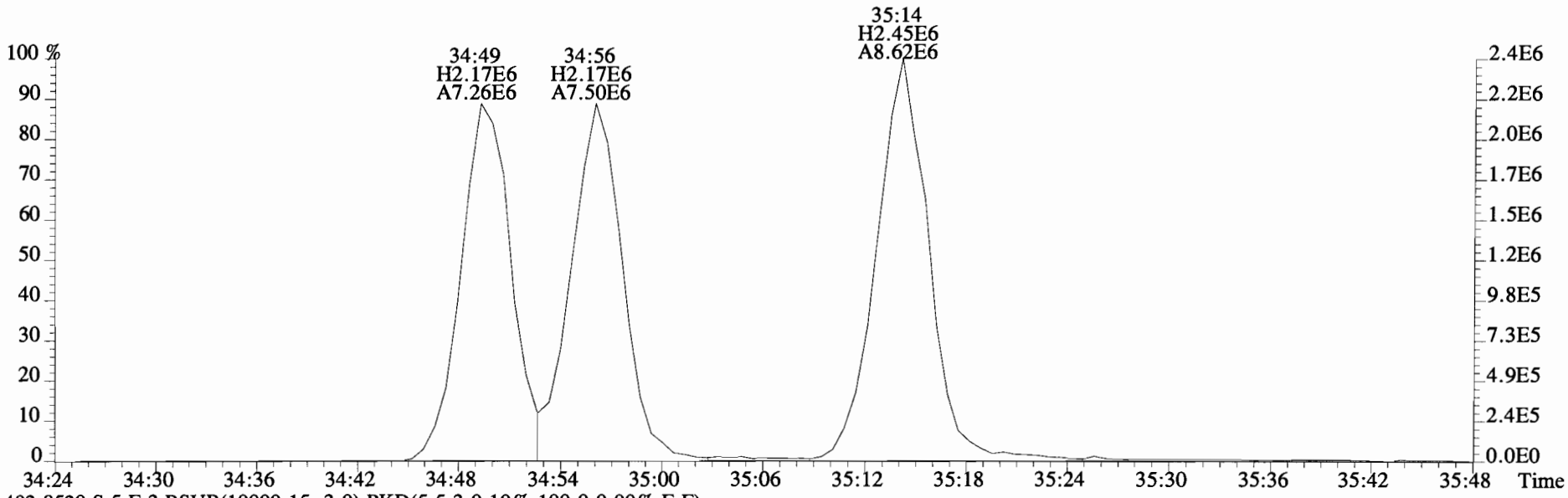


366.9792 S:5 F:2

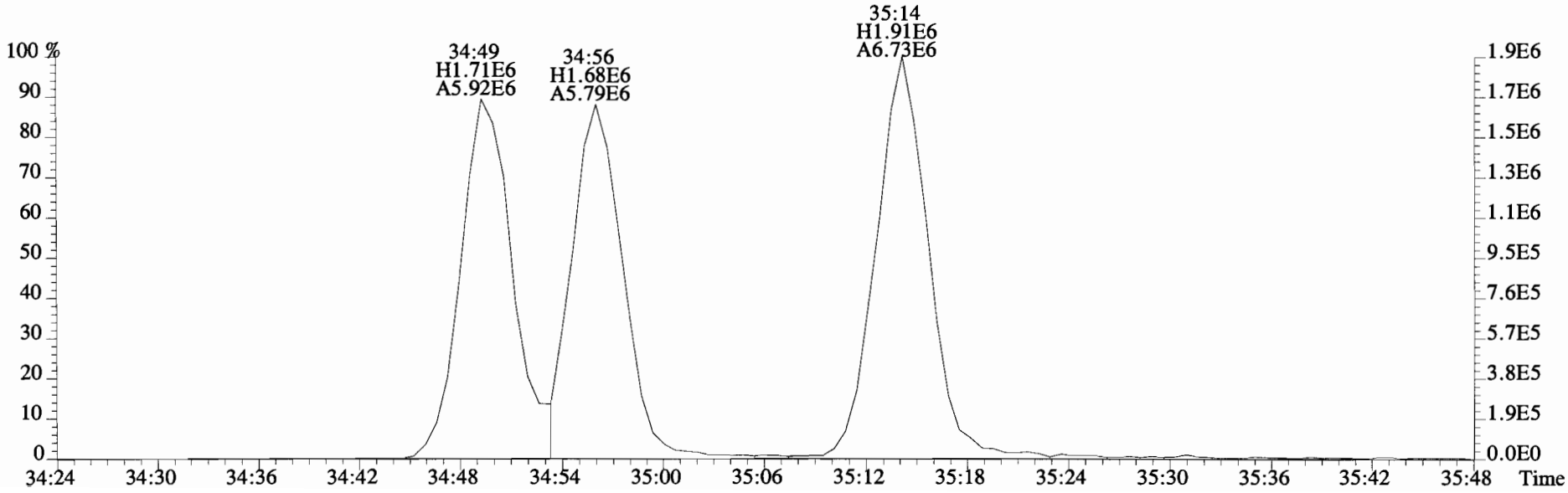



File:141023D2 #1-385 Acq:23-OCT-2014 21:43:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BLK1 Method Blank 10 Exp:OCDD_DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
33:19 H445.50 A302.48
33:40 H127.00 A85.17
33:55 H1.34E3 A1.91E3
34:04 H911.00 A2.44E3
34:41 H999.25 A2.20E3
34:51 H396.38 A565.77
35:16 H1.02E3 A1.17E3
35:38 H476.75 A778.37
36:00 H380.00 A327.86
36:27 H454.25 A333.94
100 %
50
0
1.4E3
6.8E2
0.0E0
33:00
34:00
35:00
36:00
Time
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
34:04 H649.75 A1.16E3
34:20 H544.75 A830.35
34:59 H755.80 A1.17E3
35:34 H342.63 A227.82
100 %
50
0
7.7E2
3.8E2
0.0E0
33:00
34:00
35:00
36:00
Time
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
34:56 H2.17E6 A7.50E6
35:14 H2.45E6 A8.62E6
100 %
50
0
2.4E6
1.2E6
0.0E0
33:00
34:00
35:00
36:00
Time
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
34:49 H1.71E6 A5.92E6
35:14 H1.91E6 A6.73E6
100 %
50
0
1.9E6
9.5E5
0.0E0
33:00
34:00
35:00
36:00
Time
380.9760 S:5 F:3
32:37
33:03
33:23
33:50
34:20
34:36
34:48
35:01
35:22
35:37
35:45
35:54
36:05
36:23
100 %
50
0
2.1E6
1.1E6
0.0E0
33:00
34:00
35:00
36:00
Time

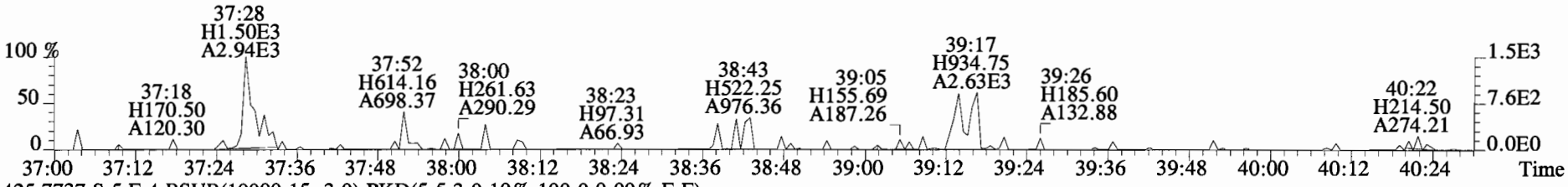
File:141023D2 #1-385 Acq:23-OCT-2014 21:43:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BLK1 Method Blank 10 Exp:OCDD_DB5
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



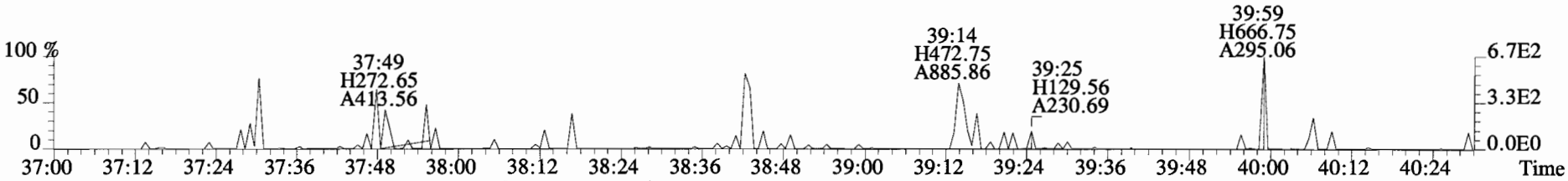
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



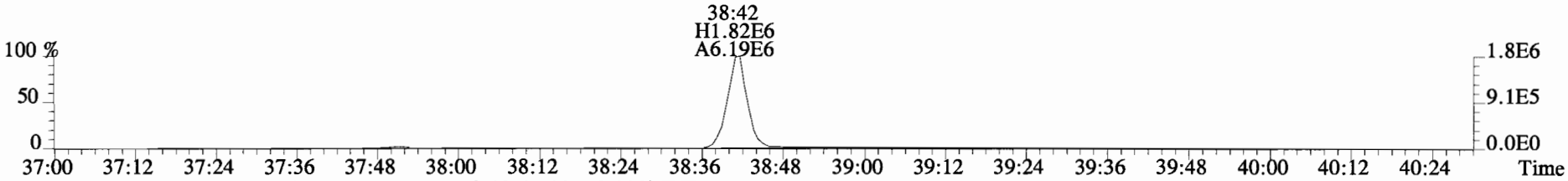
File:141023D2 #1-326 Acq:23-OCT-2014 21:43:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BLK1 Method Blank 10 Exp:OCDD_DB5
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



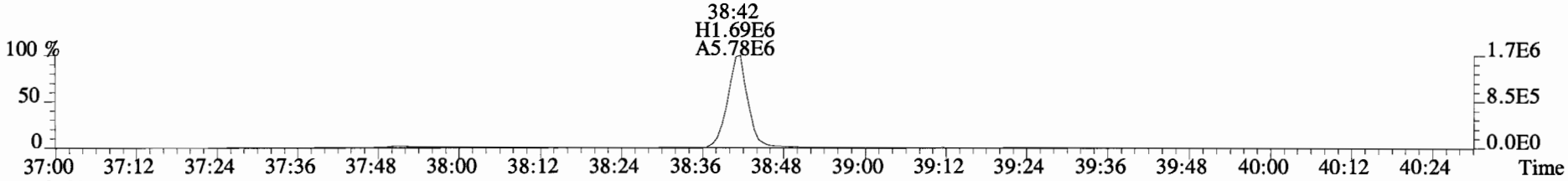
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



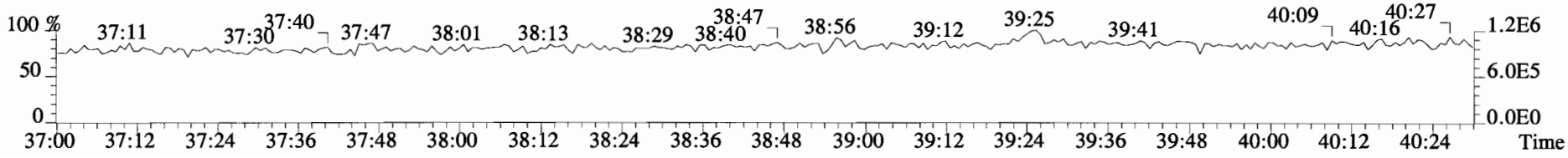
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



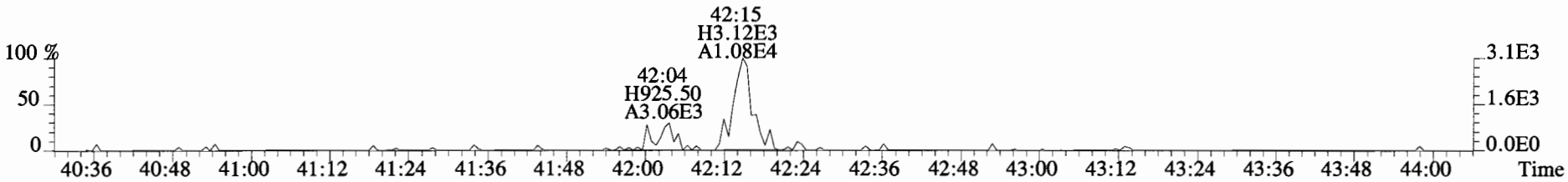
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



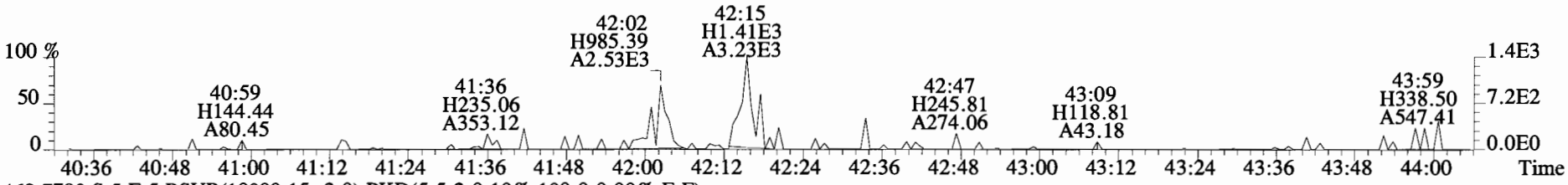
430.9728 S:5 F:4



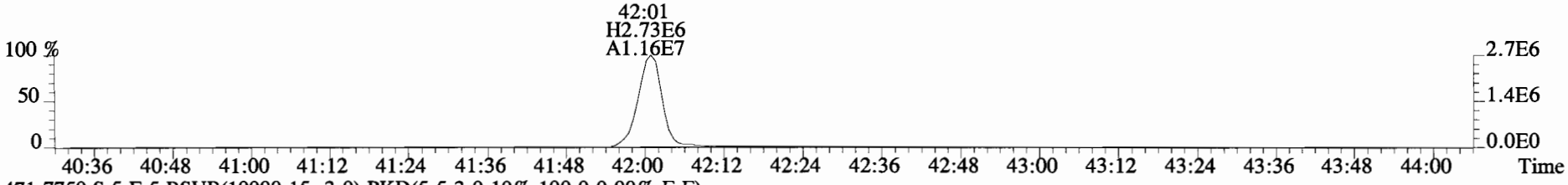
File:141023D2 #1-388 Acq:23-OCT-2014 21:43:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BLK1 Method Blank 10 Exp:OCDD_DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



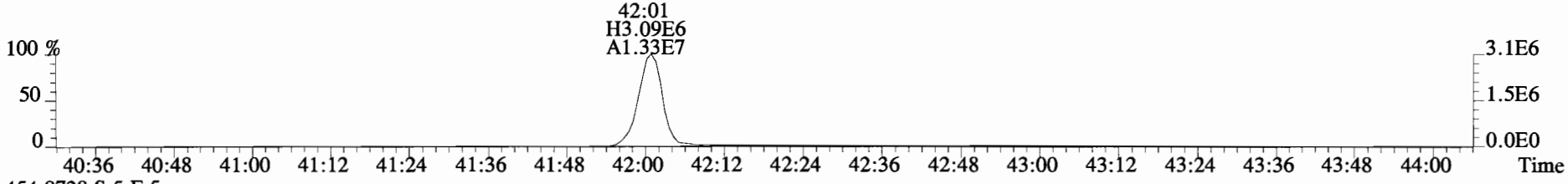
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



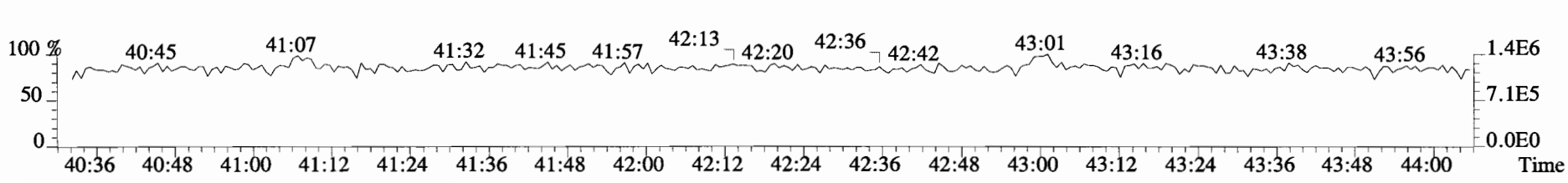
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



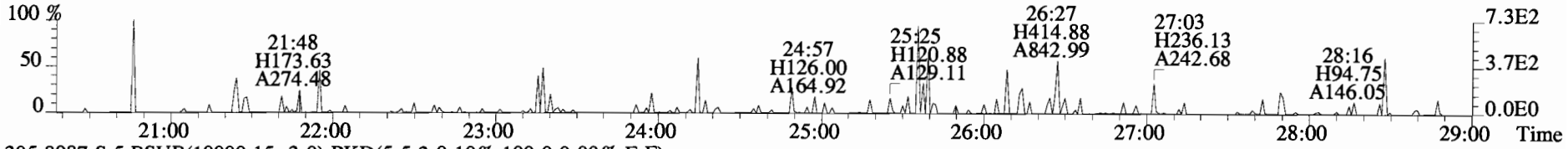
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



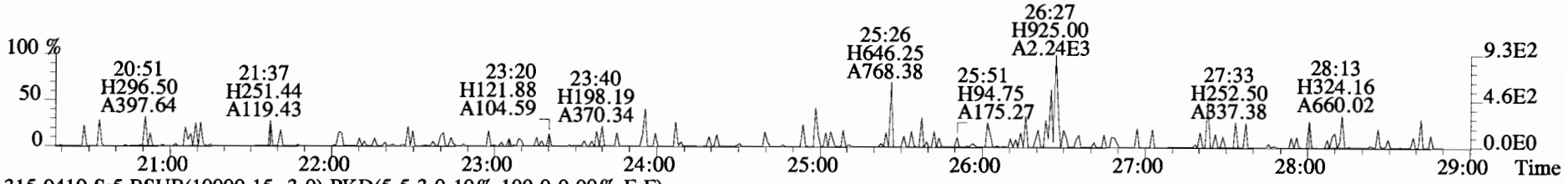
454.9728 S:5 F:5



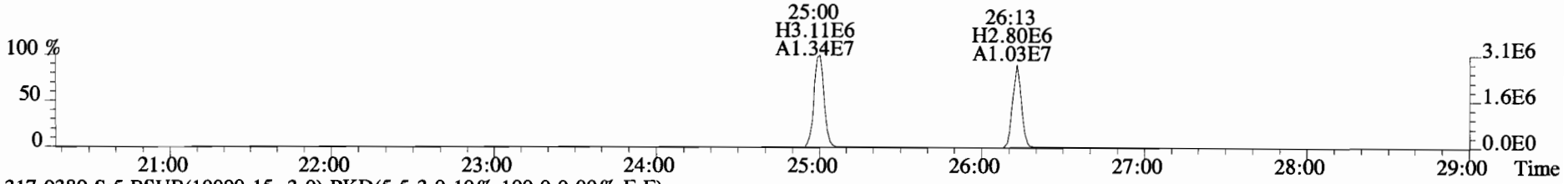
File:141023D2 #1-551 Acq:23-OCT-2014 21:43:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BLK1 Method Blank 10 Exp:OCDD_DB5
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



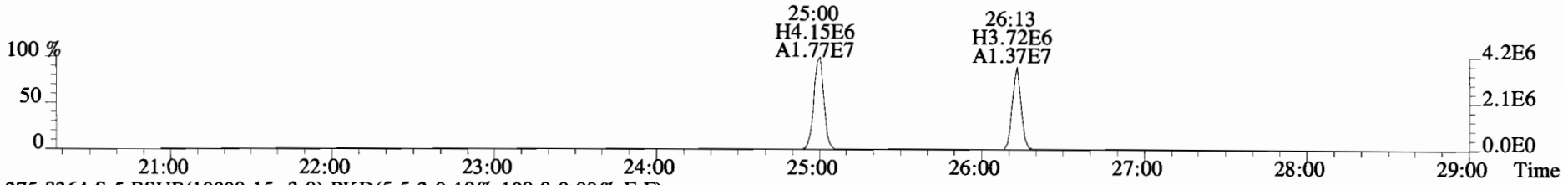
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



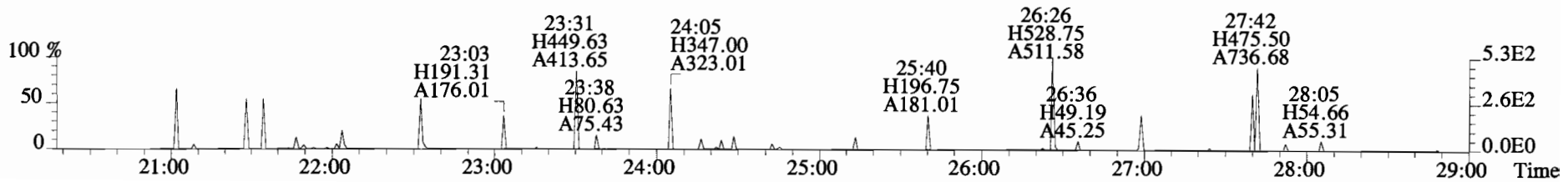
315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



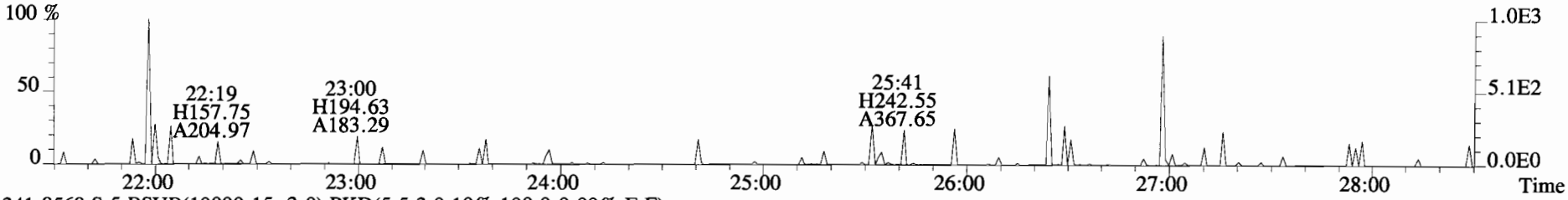
317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



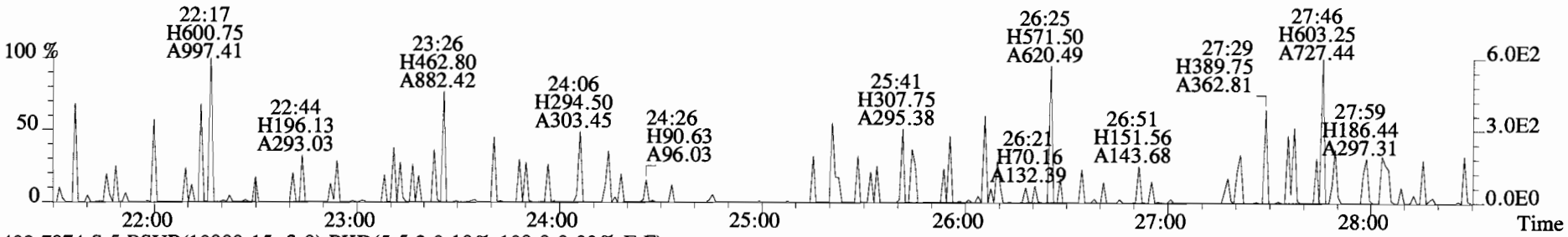
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



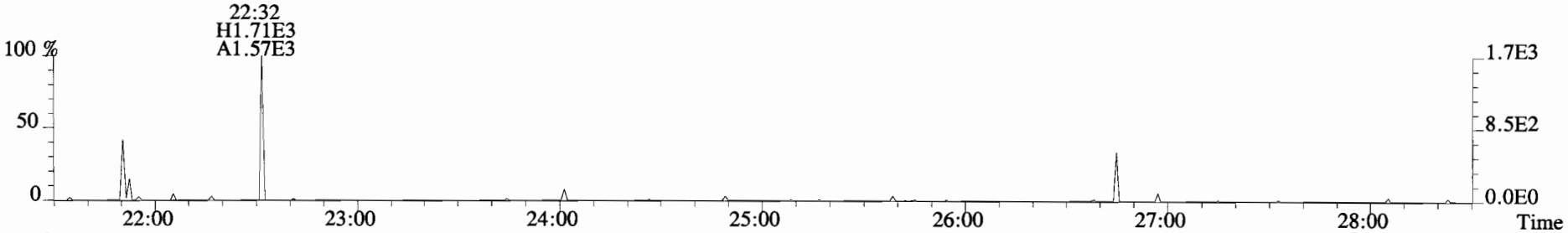
File:141023D2 #1-551 Acq:23-OCT-2014 21:43:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BLK1 Method Blank 10 Exp:OCDD_DB5
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



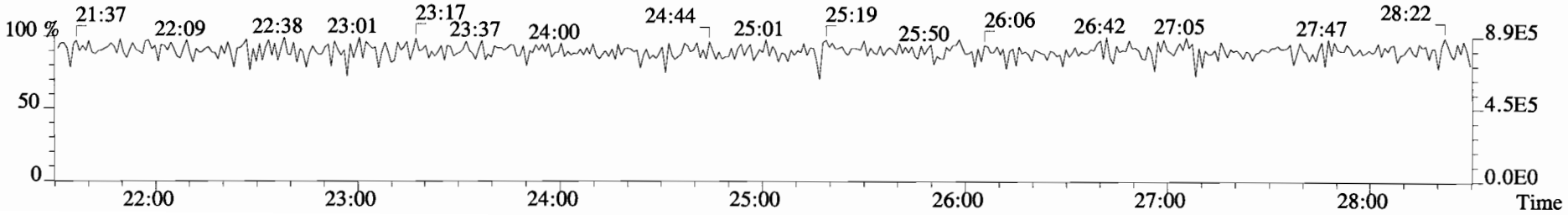
341.8568 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



409.7974 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

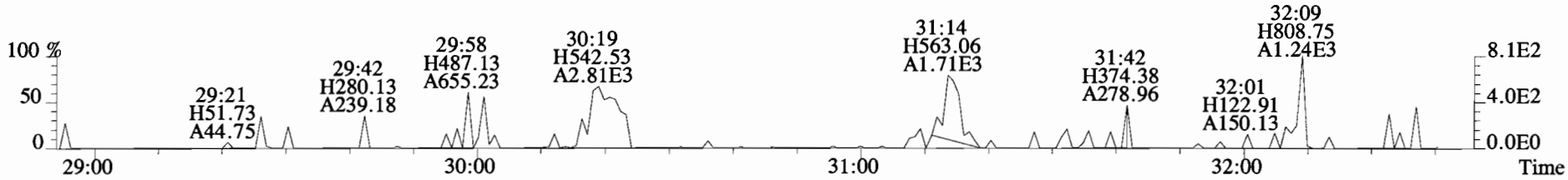


316.9824 S:5

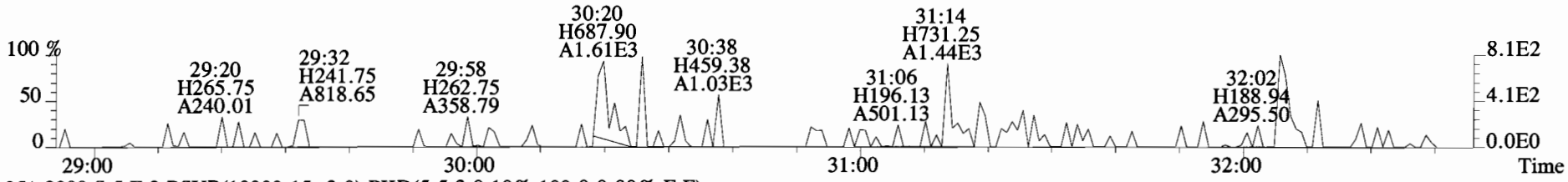


File:141023D2 #1-257 Acq:23-OCT-2014 21:43:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BLK1 Method Blank 10 Exp:OCDD_DB5

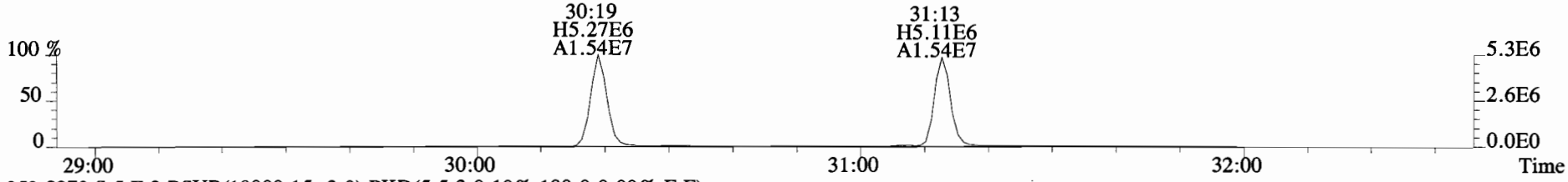
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



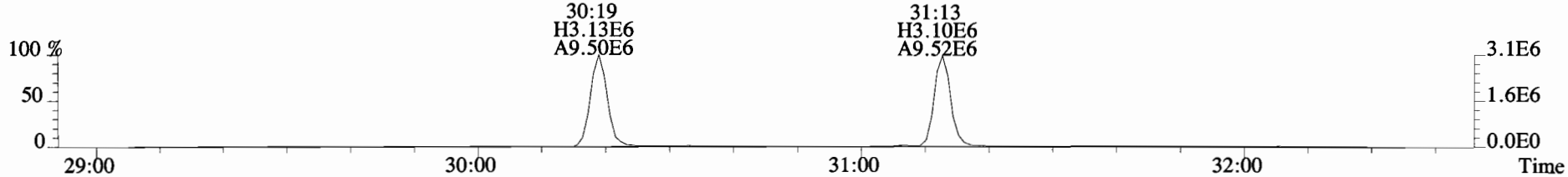
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



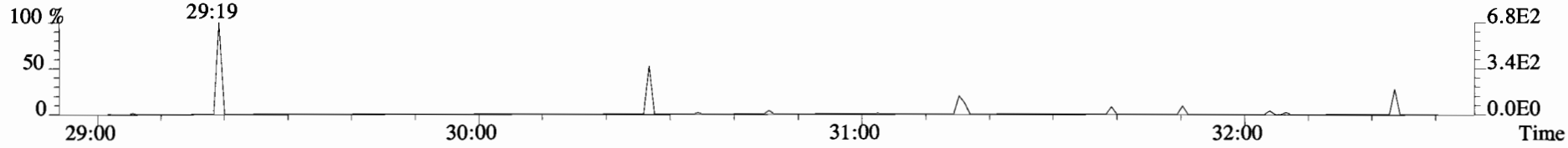
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

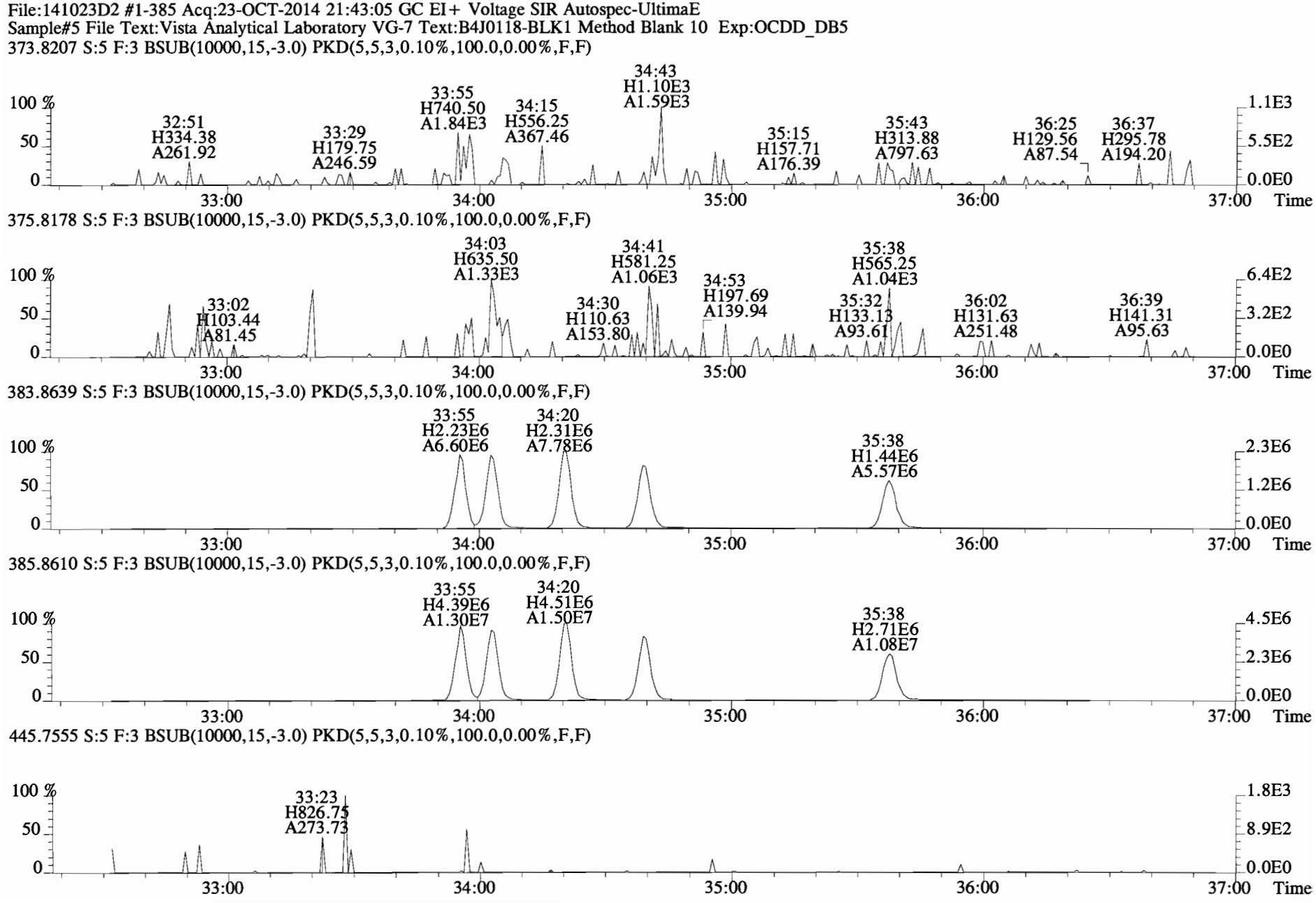


353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

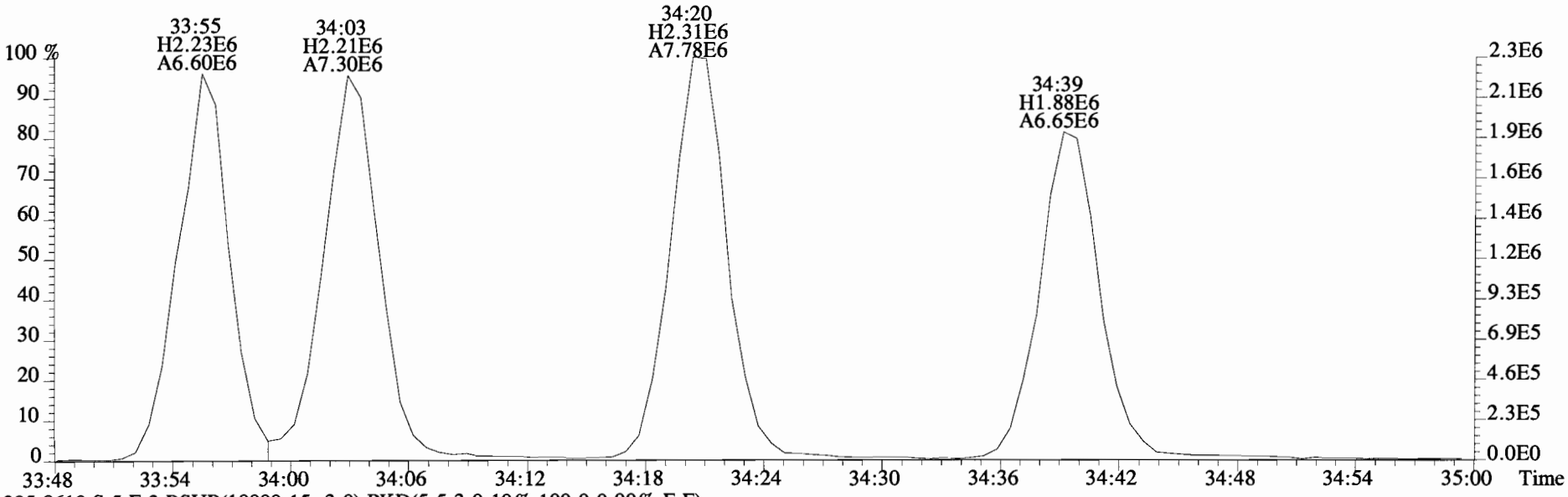


409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

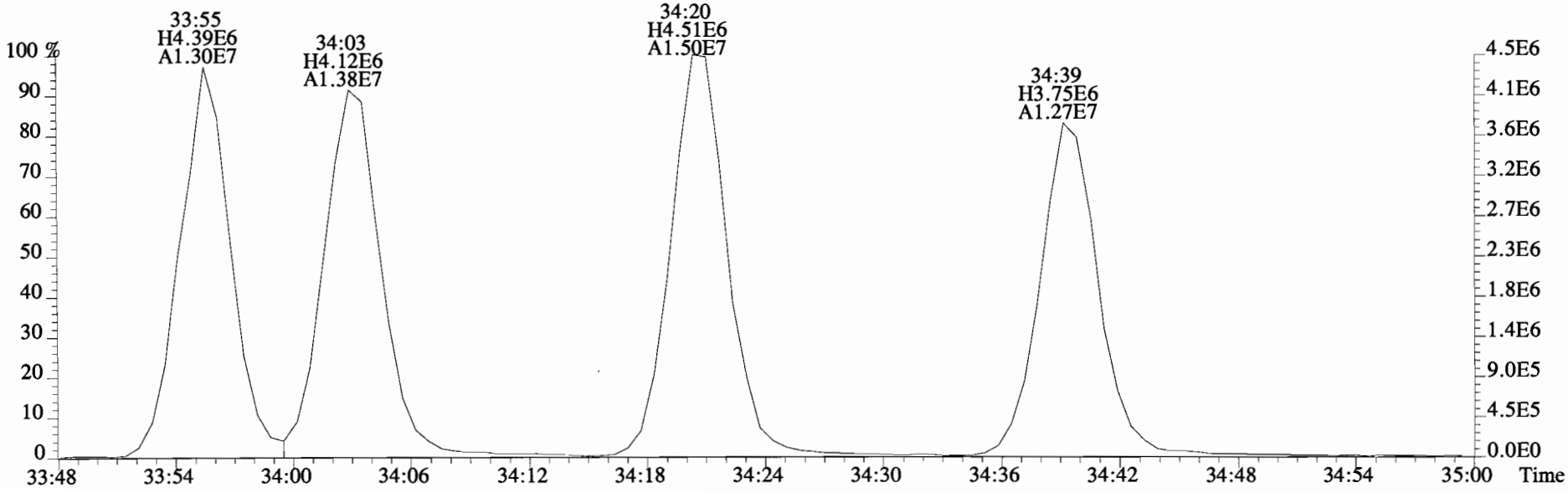



File:141023D2 #1-385 Acq:23-OCT-2014 21:43:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BLK1 Method Blank 10 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
32:51 H334.38 A261.92
33:29 H179.75 A246.59
33:55 H740.50 A1.84E3
34:15 H556.25 A367.46
34:43 H1.10E3 A1.59E3
35:15 H157.71 A176.39
35:43 H313.88 A797.63
36:25 H129.56 A87.54
36:37 H295.78 A194.20
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
33:02 H103.44 A81.45
34:03 H635.50 A1.33E3
34:30 H110.63 A153.80
34:41 H581.25 A1.06E3
34:53 H197.69 A139.94
35:32 H133.13 A93.61
35:38 H565.25 A1.04E3
36:02 H131.63 A251.48
36:39 H141.31 A95.63
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
33:55 H2.23E6 A6.60E6
34:20 H2.31E6 A7.78E6
35:38 H1.44E6 A5.57E6
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
33:55 H4.39E6 A1.30E7
34:20 H4.51E6 A1.50E7
35:38 H2.71E6 A1.08E7
445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
33:23 H826.75 A273.73
100 %
50
0
33:00
34:00
35:00
36:00
37:00
Time
1.1E3
5.5E2
0.0E0
6.4E2
3.2E2
2.3E6
1.2E6
4.5E6
2.3E6
1.8E3
8.9E2

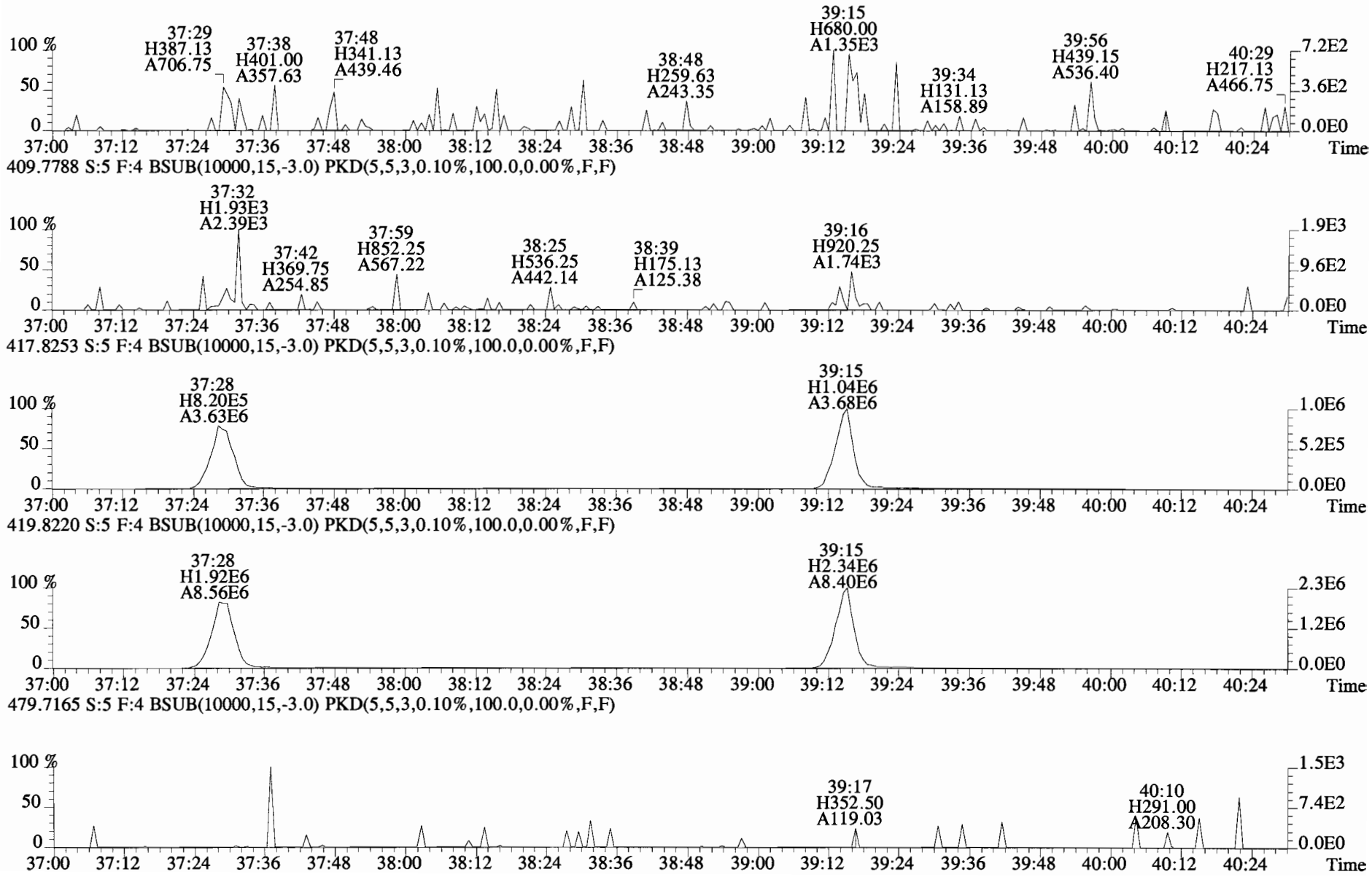
File:141023D2 #1-385 Acq:23-OCT-2014 21:43:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BLK1 Method Blank 10 Exp:OCDD_DB5
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



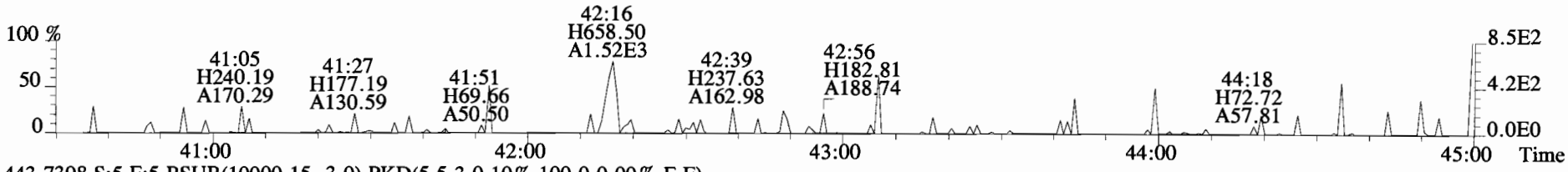
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



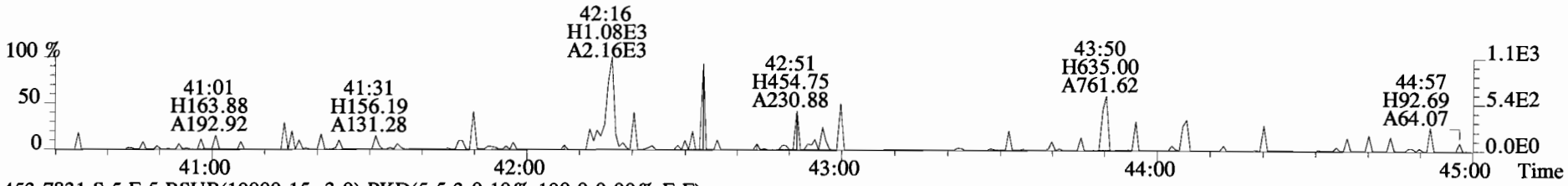
File:141023D2 #1-326 Acq:23-OCT-2014 21:43:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BLK1 Method Blank 10 Exp:OCDD_DB5



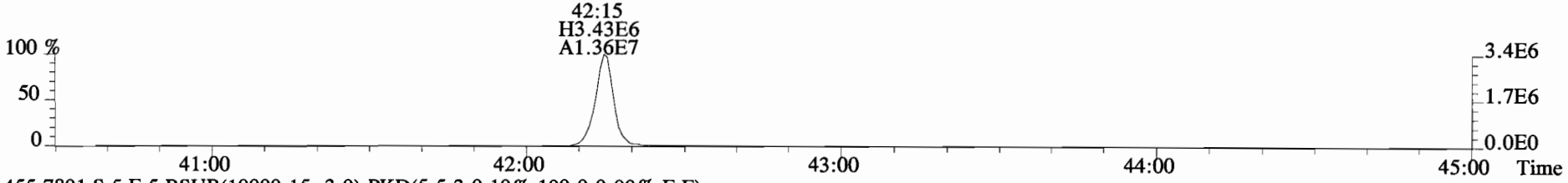
File:141023D2 #1-388 Acq:23-OCT-2014 21:43:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BLK1 Method Blank 10 Exp:OCDD_DB5
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



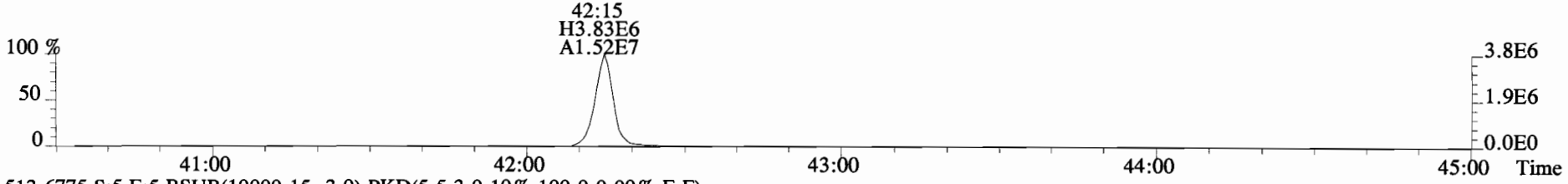
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



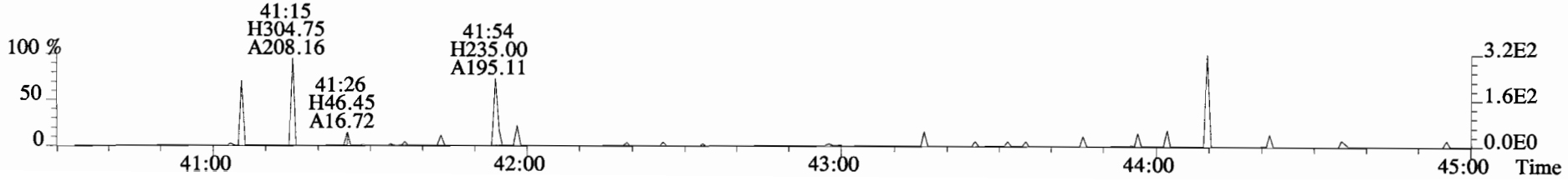
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



FORM 8A
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory Extraction Batch: B4J0118-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): SOLID OPR Data Filename: 141023D2-2

Ext. Date: 10-22-14 Shift: Day Analysis Date: 23-OCT-14 Time: 19:17:58

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

NATIVE ANALYTES	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
2,3,7,8-TCDD	10	9.11	6.7 - 15.8 7.3 - 14.6 (2)
1,2,3,7,8-PeCDD	50	48.6	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	52.2	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	50.3	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	50.4	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	48.5	35.0 - 70.0
OCDD	100	99.5	78.0 - 144.0
2,3,7,8-TCDF	10	9.33	7.5 - 15.8 8.0 - 14.7 (2)
1,2,3,7,8-PeCDF	50	48.8	40.0 - 67.0
2,3,4,7,8-PeCDF	50	49.2	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	48.7	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	48.0	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	48.5	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	48.3	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	51.0	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	50.4	39.0 - 69.0
OCDF	100	99.9	63.0 - 170.0

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. 10/94

(2) Contract-required concentration limits for OPR as specified in Table 6a, Method 1613. 10/94

Analyst: M

Date: 10/24/14

FORM 8B
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory Extraction Batch: B4J0118-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): SOLID OPR Data Filename: 141023D2-2

Ext. Date: 10-22-14 Shift: Day Analysis Date: 23-OCT-14 Time: 19:17:58

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

LABELED COMPOUNDS	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
13C-2,3,7,8-TCDD	100	97.0	20.0 - 175.0
			25.0 - 141.0 (2)
13C-1,2,3,7,8-PeCDD	100	123	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	78.0	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	82.0	25.0 - 163.0
13C-1,2,3,7,8,9-HxCDD	100	78.8	21.0 - 193.0
13C-1,2,3,4,6,7,8-HpCDD	100	73.3	26.0 - 166.0
13C-OCDD	200	118	26.0 - 397.0
13C-2,3,7,8-TCDF	100	82.1	22.0 - 152.0
			26.0 - 126.0 (2)
13C-1,2,3,7,8-PeCDF	100	99.0	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	101	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	93.2	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	88.3	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	81.7	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	81.3	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	71.5	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	66.9	20.0 - 186.0
13C-OCDF	200	123	26.0 - 397.0
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	37.0	12.4 - 76.4

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. 10/94

(2) Contract-required concentration limits for OPR as specified in Table 6a, Method 1613. 10/94

Analyst: MJ

Date: 10/24/14

Client ID: OPR | Filename: 141023D2 S:2 Acq:23-OCT-14 19:17:58 | ConCal: ST141023D2-1 |

Lab ID: B4J0118-BS1 | GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 1.000 | EndCAL: NA

	Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	2.06e+06	0.74 y	1.18	27:00	1.001	9.1097		*	2.5	*
	1,2,3,7,8-PeCDD	1.24e+07	0.60 y	0.92	31:30	1.000	48.635		*	2.5	*
	1,2,3,4,7,8-HxCDD	8.54e+06	1.27 y	1.09	34:50	1.000	52.248		*	2.5	*
	1,2,3,6,7,8-HxCDD	8.60e+06	1.27 y	1.07	34:57	1.000	50.281		*	2.5	*
	1,2,3,7,8,9-HxCDD	8.40e+06	1.24 y	0.93	35:15	1.000	50.372		*	2.5	*
	1,2,3,4,6,7,8-HpCDD	6.78e+06	1.05 y	1.12	38:42	1.000	48.454		*	2.5	*
	OCDD	1.16e+07	0.89 y	0.95	42:01	1.000	99.477		*	2.5	*
	2,3,7,8-TCDF	2.59e+06	0.80 y	1.08	26:14	1.001	9.3344		*	2.5	*
	1,2,3,7,8-PeCDF	1.70e+07	1.57 y	1.09	30:20	1.000	48.786		*	2.5	*
	2,3,4,7,8-PeCDF	1.70e+07	1.55 y	1.04	31:14	1.000	49.208		*	2.5	*
	1,2,3,4,7,8-HxCDF	1.66e+07	1.29 y	1.39	33:56	1.000	48.725		*	2.5	*
	1,2,3,6,7,8-HxCDF	1.56e+07	1.26 y	1.26	34:04	1.000	47.980		*	2.5	*
	2,3,4,6,7,8-HxCDF	1.41e+07	1.28 y	1.30	34:40	1.000	48.549		*	2.5	*
	1,2,3,7,8,9-HxCDF	1.07e+07	1.27 y	1.19	35:39	1.000	48.348		*	2.5	*
	1,2,3,4,6,7,8-HpCDF	1.12e+07	1.10 y	1.62	37:30	1.000	51.034		*	2.5	*
	1,2,3,4,7,8,9-HpCDF	9.69e+06	1.08 y	1.53	39:15	1.000	50.441		*	2.5	*
	OCDF	1.57e+07	0.92 y	1.10	42:16	1.000	99.899		*	2.5	*
IS	13C-2,3,7,8-TCDD	1.91e+07	0.77 y	1.07	26:59	1.022	97.018				
IS	13C-1,2,3,7,8-PeCDD	2.79e+07	0.63 y	1.24	31:29	1.192	122.68				
IS	13C-1,2,3,4,7,8-HxCDD	1.50e+07	1.31 y	0.72	34:49	1.014	78.011				
IS	13C-1,2,3,6,7,8-HxCDD	1.60e+07	1.27 y	0.74	34:56	1.017	82.006				
IS	13C-1,2,3,7,8,9-HxCDD	1.79e+07	1.25 y	0.86	35:14	1.026	78.801				
IS	13C-1,2,3,4,6,7,8-HpCDD	1.26e+07	1.05 y	0.64	38:41	1.126	73.340				
IS	13C-OCDD	2.46e+07	0.89 y	0.78	42:01	1.223	118.08				
IS	13C-2,3,7,8-TCDF	2.58e+07	0.77 y	0.92	26:13	0.992	82.066				
IS	13C-1,2,3,7,8-PeCDF	3.20e+07	1.57 y	0.95	30:19	1.148	99.036				
IS	13C-2,3,4,7,8-PeCDF	3.32e+07	1.57 y	0.97	31:13	1.182	100.73				
IS	13C-1,2,3,4,7,8-HxCDF	2.45e+07	0.51 y	0.99	33:55	0.988	93.173				
IS	13C-1,2,3,6,7,8-HxCDF	2.58e+07	0.52 y	1.10	34:03	0.992	88.328				
IS	13C-2,3,4,6,7,8-HxCDF	2.24e+07	0.52 y	1.03	34:39	1.009	81.669				
IS	13C-1,2,3,7,8,9-HxCDF	1.85e+07	0.51 y	0.86	35:38	1.037	81.270				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.36e+07	0.44 y	0.71	37:29	1.091	71.519				
IS	13C-1,2,3,4,7,8,9-HpCDF	1.26e+07	0.42 y	0.71	39:15	1.143	66.907				
IS	13C-OCDF	2.85e+07	0.90 y	0.87	42:15	1.230	122.75				
C/Up	37Cl-2,3,7,8-TCDD	8.21e+06		1.21	27:00	1.022	36.986				
RS/RT	13C-1,2,3,4-TCDD	1.83e+07	0.79 y	1.00	26:25	*	100.00				
RS	13C-1,2,3,4-TCDF	3.40e+07	0.77 y	1.00	24:59	*	100.00				
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.66e+07	0.52 y	1.00	34:21	*	100.00				

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	9.45	9.55		*	*
Total Penta-Dioxins	48.6	49.0		*	*
Total Hexa-Dioxins	153	154		*	*
Total Hepta-Dioxins	48.9	50.2		*	*
Total Tetra-Furans	9.49	9.87		*	*
Total Penta-Furans	98.876	100.34		*	*
Total Hexa-Furans	194	195		*	*
Total Hepta-Furans	102	104		*	*

	Rec	Qual
IS	97.0	
IS	123	
IS	78.0	
IS	82.0	
IS	78.8	
IS	73.3	
IS	59.0	
IS	82.1	
IS	99.0	
IS	101	
IS	93.2	
IS	88.3	
IS	81.7	
IS	81.3	
IS	71.5	
IS	66.9	
IS	61.4	
C/Up	92.5	

Integrations by Analyst: MJ Date: 10/24/14

Reviewed by Analyst: [signature] Date: 10/29/14

	Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	2.06e+06	0.74 y	1.18	27:00	1.001	18.219		*	2.5	*
	1,2,3,7,8-PeCDD	1.24e+07	0.60 y	0.92	31:30	1.000	97.270		*	2.5	*
	1,2,3,4,7,8-HxCDD	8.54e+06	1.27 y	1.09	34:50	1.000	104.50		*	2.5	*
	1,2,3,6,7,8-HxCDD	8.60e+06	1.27 y	1.07	34:57	1.000	100.56		*	2.5	*
	1,2,3,7,8,9-HxCDD	8.40e+06	1.24 y	0.93	35:15	1.000	100.74		*	2.5	*
	1,2,3,4,6,7,8-HpCDD	6.78e+06	1.05 y	1.12	38:42	1.000	96.909		*	2.5	*
	OCDD	1.16e+07	0.89 y	0.95	42:01	1.000	198.95		*	2.5	*
	2,3,7,8-TCDF	2.59e+06	0.80 y	1.08	26:14	1.001	18.669		*	2.5	*
	1,2,3,7,8-PeCDF	1.70e+07	1.57 y	1.09	30:20	1.000	97.571		*	2.5	*
	2,3,4,7,8-PeCDF	1.70e+07	1.55 y	1.04	31:14	1.000	98.416		*	2.5	*
	1,2,3,4,7,8-HxCDF	1.66e+07	1.29 y	1.39	33:56	1.000	97.450		*	2.5	*
	1,2,3,6,7,8-HxCDF	1.56e+07	1.26 y	1.26	34:04	1.000	95.959		*	2.5	*
	2,3,4,6,7,8-HxCDF	1.41e+07	1.28 y	1.30	34:40	1.000	97.099		*	2.5	*
	1,2,3,7,8,9-HxCDF	1.07e+07	1.27 y	1.19	35:39	1.000	96.697		*	2.5	*
	1,2,3,4,6,7,8-HpCDF	1.12e+07	1.10 y	1.62	37:30	1.000	102.07		*	2.5	*
	1,2,3,4,7,8,9-HpCDF	9.69e+06	1.08 y	1.53	39:15	1.000	100.88		*	2.5	*
	OCDF	1.57e+07	0.92 y	1.10	42:16	1.000	199.80		*	2.5	*
IS	13C-2,3,7,8-TCDD	1.91e+07	0.77 y	1.07	26:59	1.022	194.04				
IS	13C-1,2,3,7,8-PeCDD	2.79e+07	0.63 y	1.24	31:29	1.192	245.37				
IS	13C-1,2,3,4,7,8-HxCDD	1.50e+07	1.31 y	0.72	34:49	1.014	156.02				
IS	13C-1,2,3,6,7,8-HxCDD	1.60e+07	1.27 y	0.74	34:56	1.017	164.01				
IS	13C-1,2,3,7,8,9-HxCDD	1.79e+07	1.25 y	0.86	35:14	1.026	157.60				
IS	13C-1,2,3,4,6,7,8-HpCDD	1.26e+07	1.05 y	0.64	38:41	1.126	146.68				
IS	13C-OCDD	2.46e+07	0.89 y	0.78	42:01	1.223	236.17				
IS	13C-2,3,7,8-TCDF	2.58e+07	0.77 y	0.92	26:13	0.992	164.13				
IS	13C-1,2,3,7,8-PeCDF	3.20e+07	1.57 y	0.95	30:19	1.148	198.07				
IS	13C-2,3,4,7,8-PeCDF	3.32e+07	1.57 y	0.97	31:13	1.182	201.46				
IS	13C-1,2,3,4,7,8-HxCDF	2.45e+07	0.51 y	0.99	33:55	0.988	186.35				
IS	13C-1,2,3,6,7,8-HxCDF	2.58e+07	0.52 y	1.10	34:03	0.992	176.66				
IS	13C-2,3,4,6,7,8-HxCDF	2.24e+07	0.52 y	1.03	34:39	1.009	163.34				
IS	13C-1,2,3,7,8,9-HxCDF	1.85e+07	0.51 y	0.86	35:38	1.037	162.54				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.36e+07	0.44 y	0.71	37:29	1.091	143.04				
IS	13C-1,2,3,4,7,8,9-HpCDF	1.26e+07	0.42 y	0.71	39:15	1.143	133.81				
IS	13C-OCDF	2.85e+07	0.90 y	0.87	42:15	1.230	245.50				
C/Up	37Cl-2,3,7,8-TCDD	8.21e+06		1.21	27:00	1.022	73.972				
RS/RT	13C-1,2,3,4-TCDD	1.83e+07	0.79 y	1.00	26:25	*	200.00				
RS	13C-1,2,3,4-TCDF	3.40e+07	0.77 y	1.00	24:59	*	200.00				
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.66e+07	0.52 y	1.00	34:21	*	200.00				

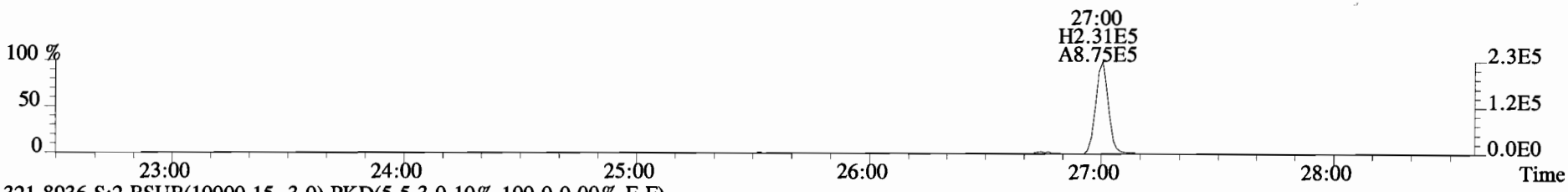
Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	18.9	19.1		*	*
Total Penta-Dioxins	97.3	98.1		*	*
Total Hexa-Dioxins	307	308		*	*
Total Hepta-Dioxins	97.9	100		*	*
Total Tetra-Furans	19.0	19.7		*	*
Total Penta-Furans	197.75	200.67		*	*
Total Hexa-Furans	388	389		*	*
Total Hepta-Furans	204	209		*	*

	Rec	Qual
IS	97.0	
IS	123	
IS	78.0	
IS	82.0	
IS	78.8	
IS	73.3	
IS	59.0	
IS	82.1	
IS	99.0	
IS	101	
IS	93.2	
IS	88.3	
IS	81.7	
IS	81.3	
IS	71.5	
IS	66.9	
IS	61.4	
C/Up	92.5	

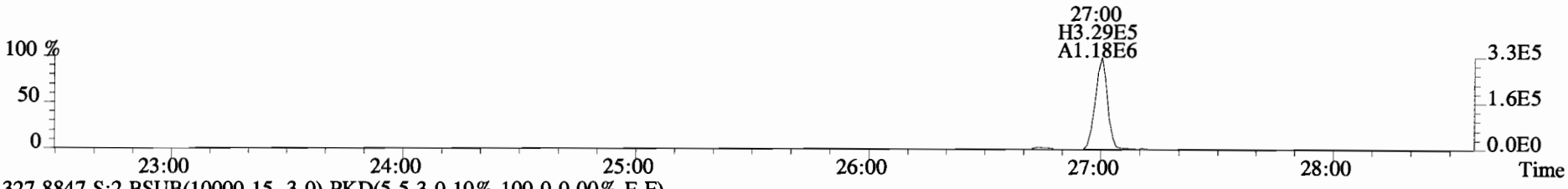
Integrations by Analyst: MJ Date: 10/24/14

Reviewed by Analyst: _____ Date: _____

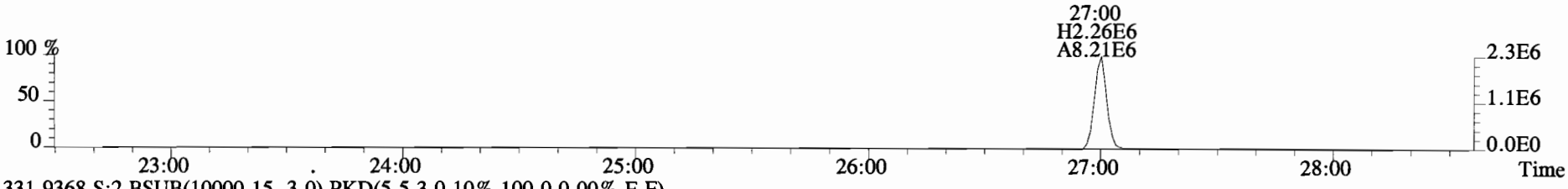
File:141023D2 #1-551 Acq:23-OCT-2014 19:17:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BS1 OPR 10 Exp:OCDD_DB5
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



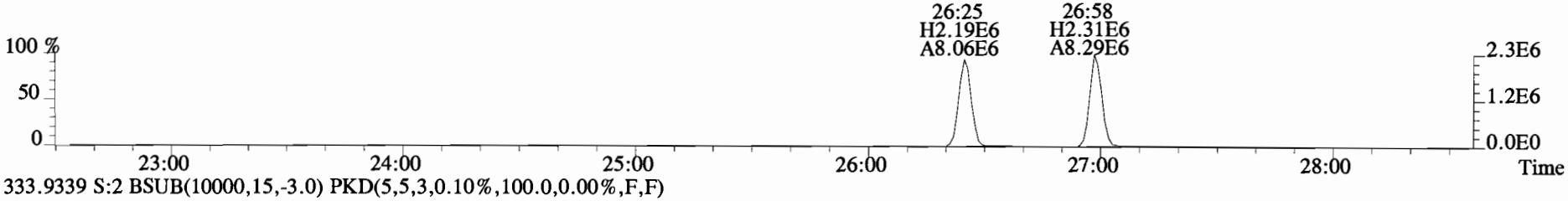
321.8936 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



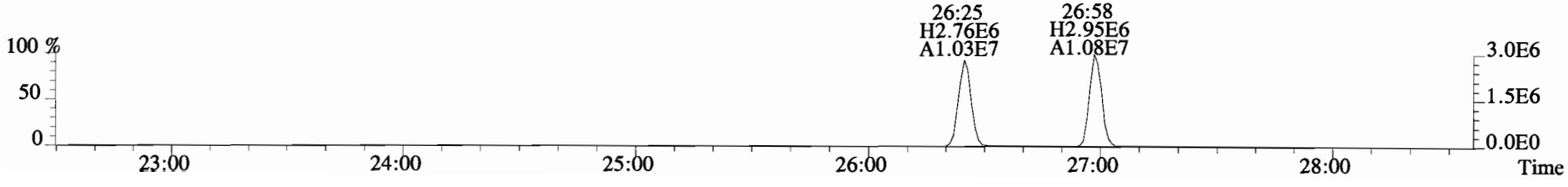
327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



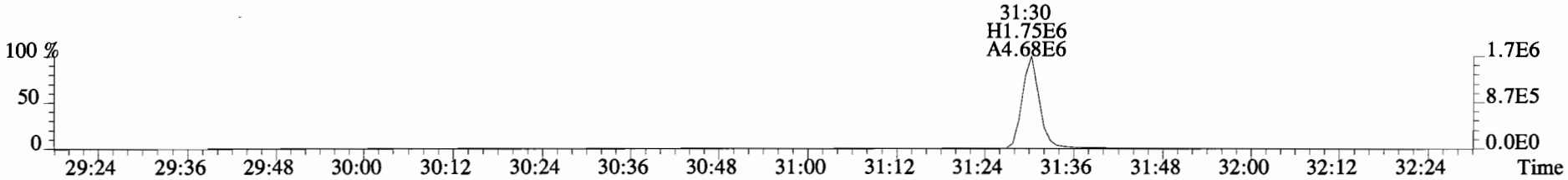
331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



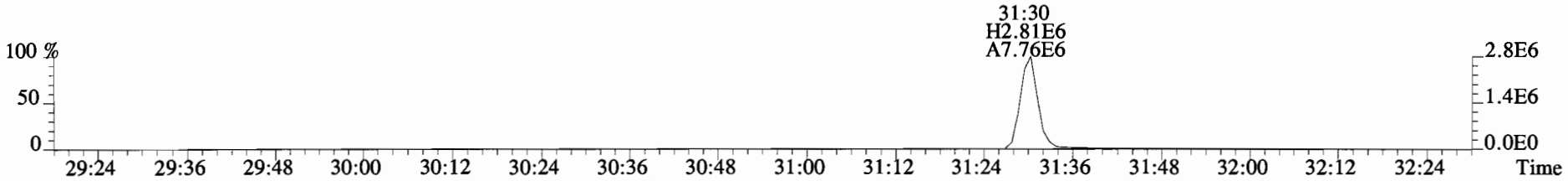
333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



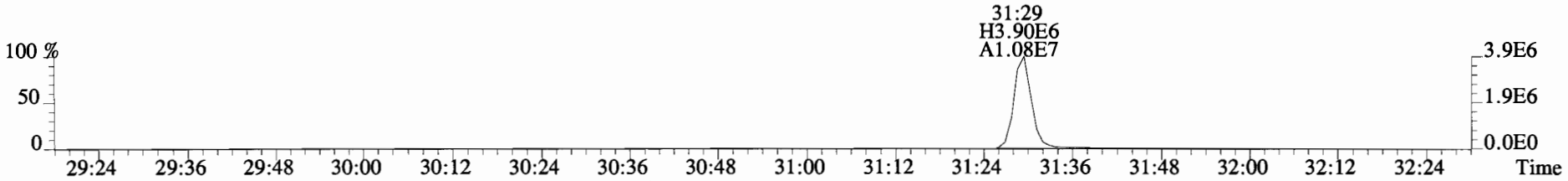
File:141023D2 #1-256 Acq:23-OCT-2014 19:17:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BS1 OPR 10 Exp:OCDD_DB5
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



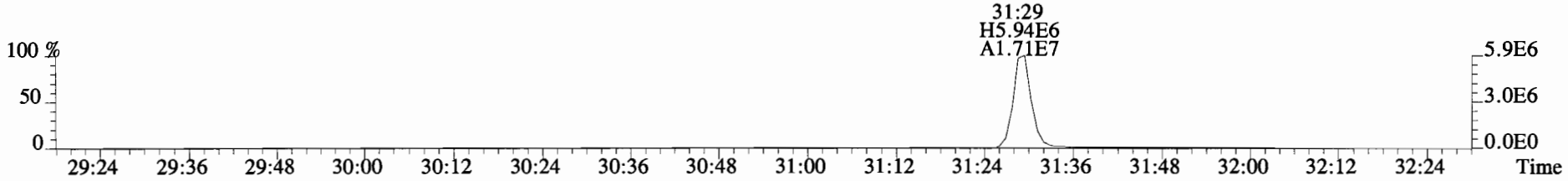
355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



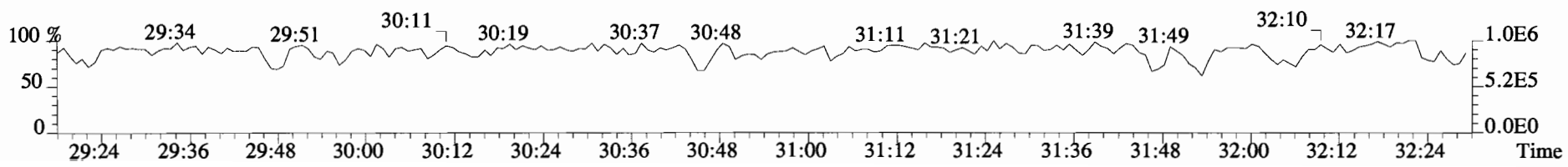
365.8978 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



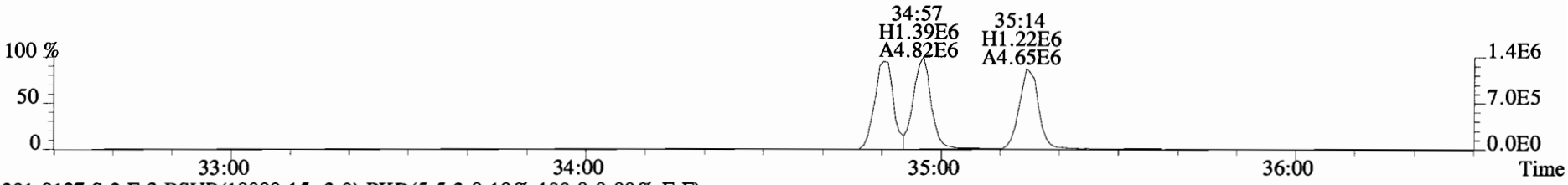
367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



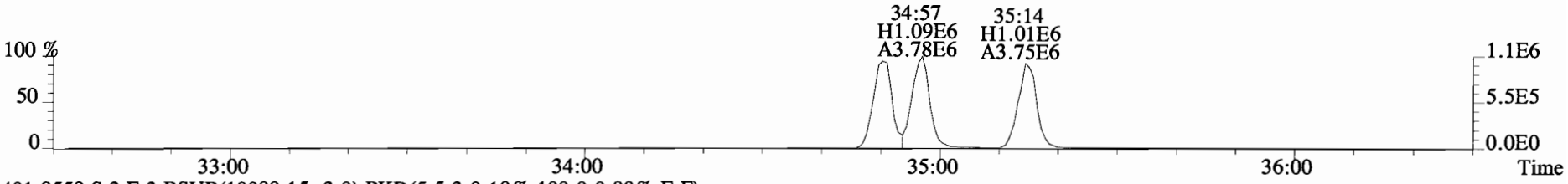
366.9792 S:2 F:2



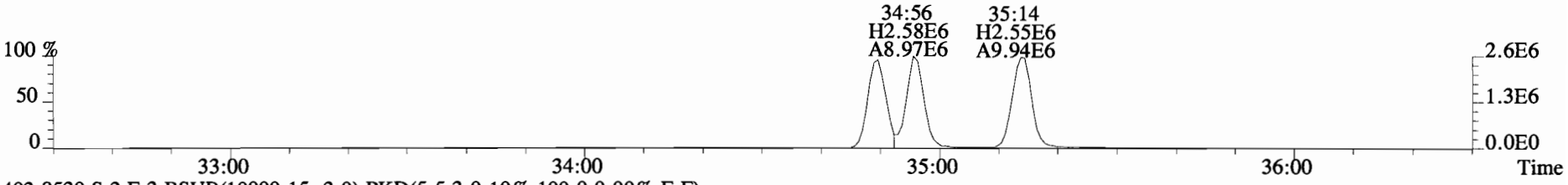
File:141023D2 #1-386 Acq:23-OCT-2014 19:17:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BS1 OPR 10 Exp:OCDD_DB5
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



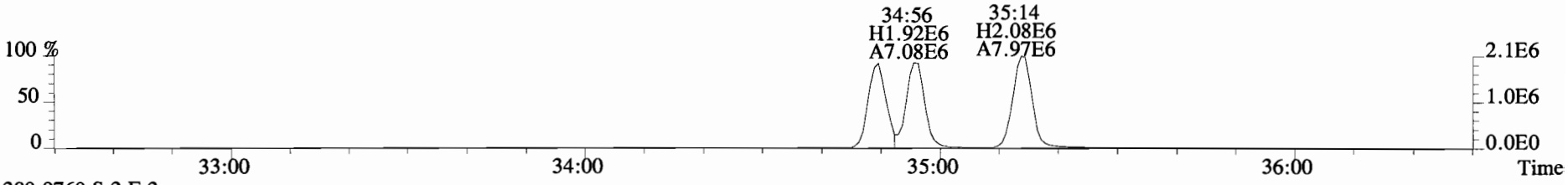
391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



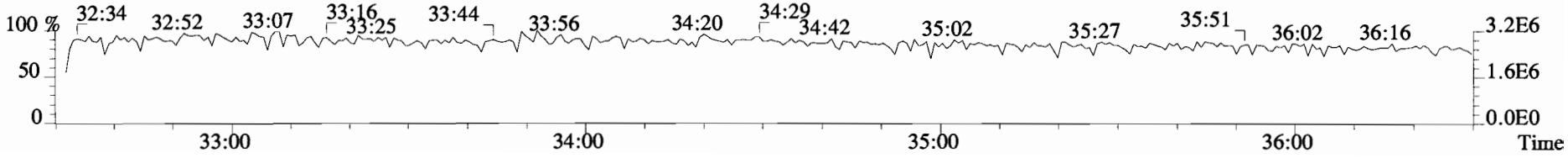
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



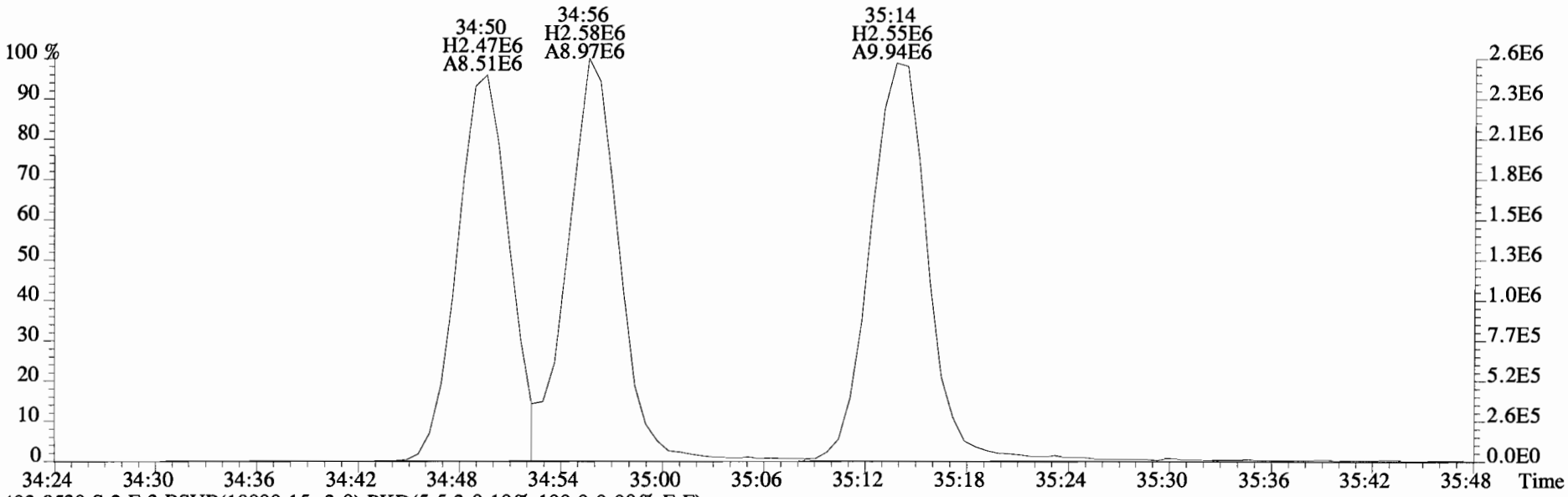
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



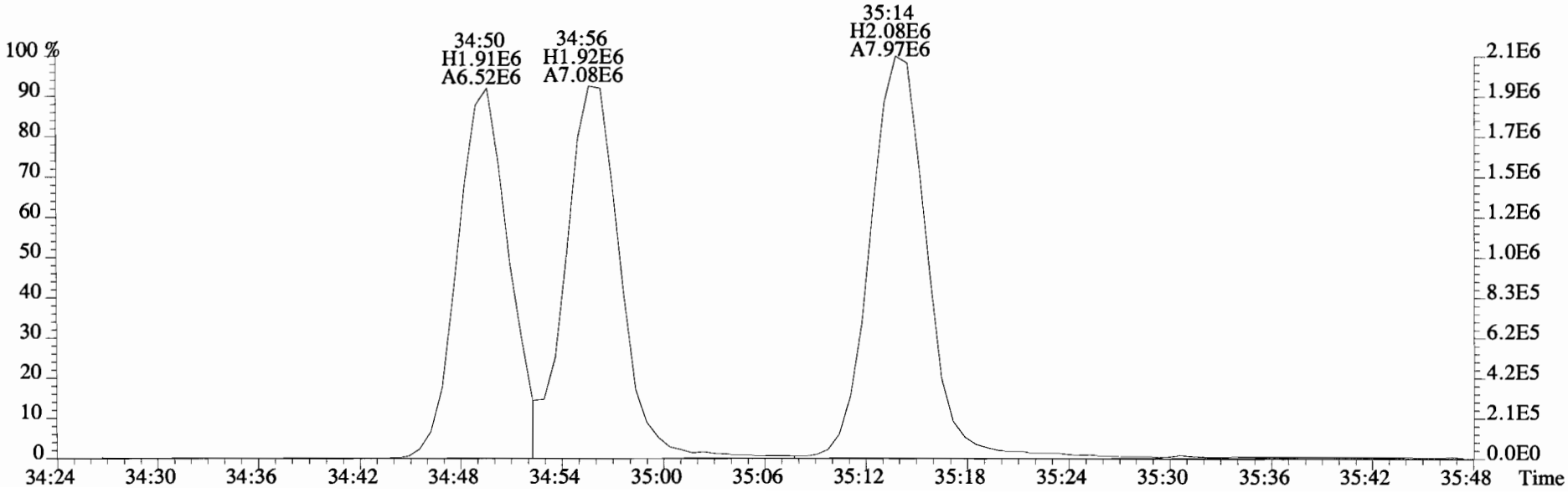
380.9760 S:2 F:3



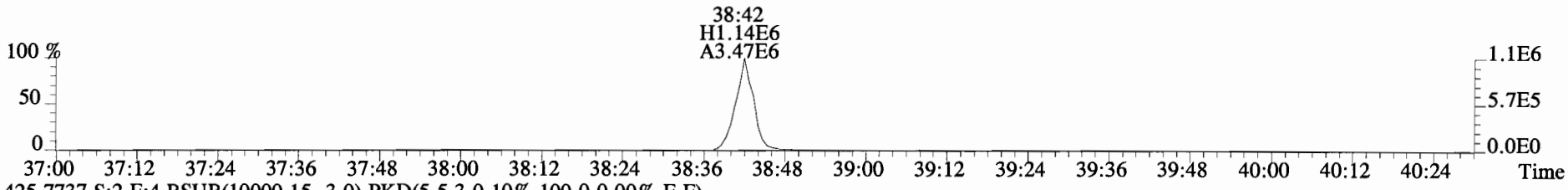
File:141023D2 #1-386 Acq:23-OCT-2014 19:17:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BS1 OPR 10 Exp:OCDD_DB5
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



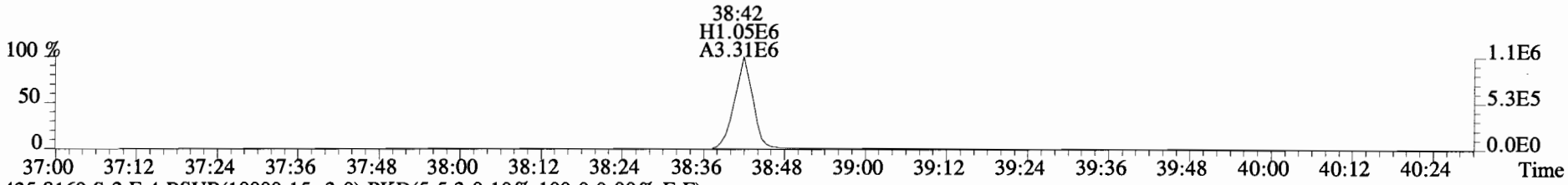
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



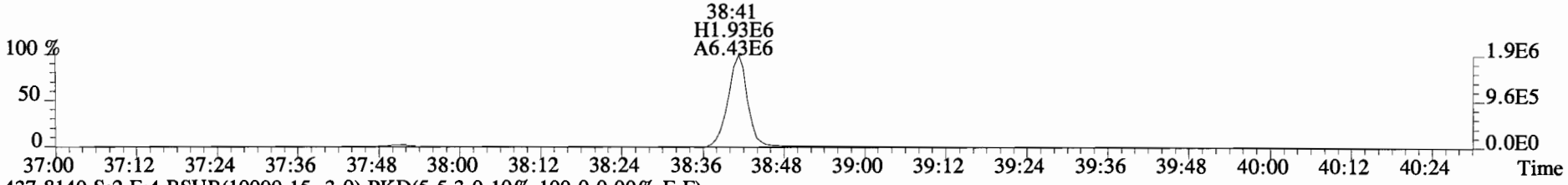
File:141023D2 #1-325 Acq:23-OCT-2014 19:17:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BS1 OPR 10 Exp:OCDD_DB5
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



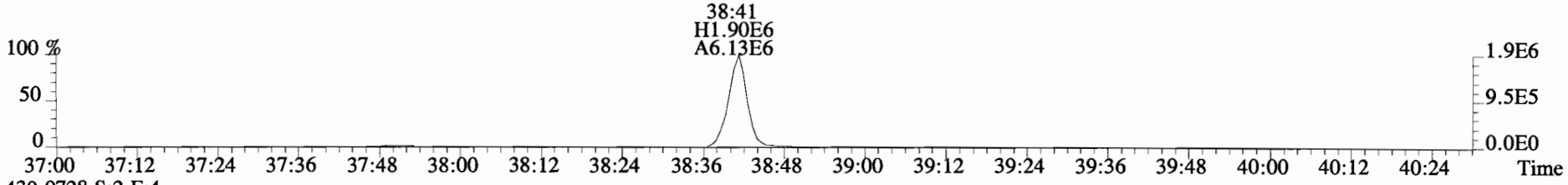
425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



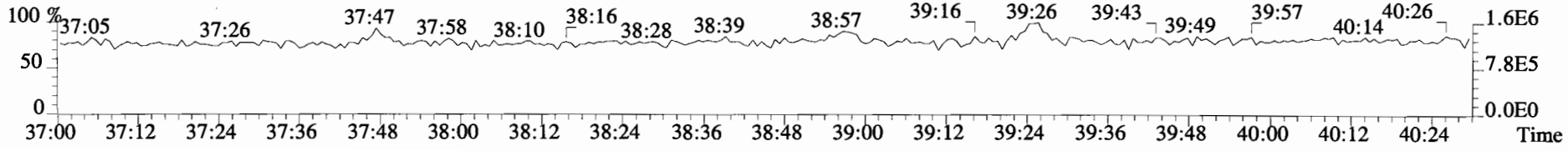
435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



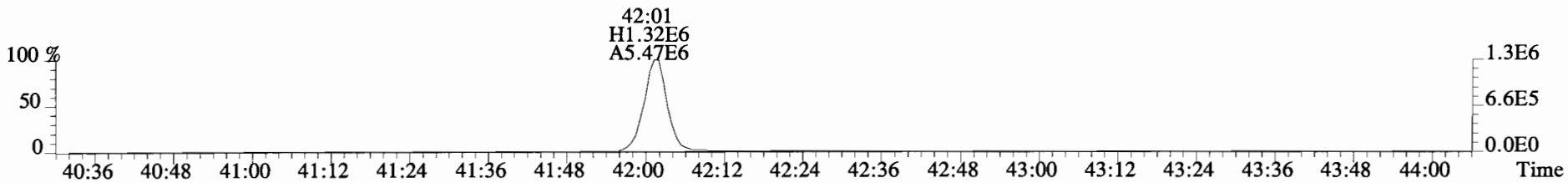
437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



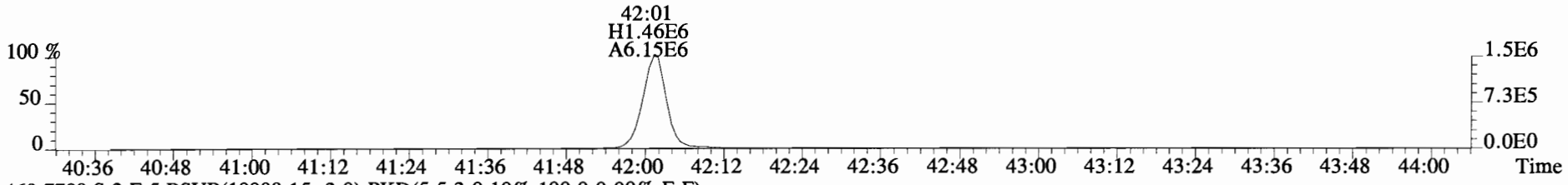
430.9728 S:2 F:4



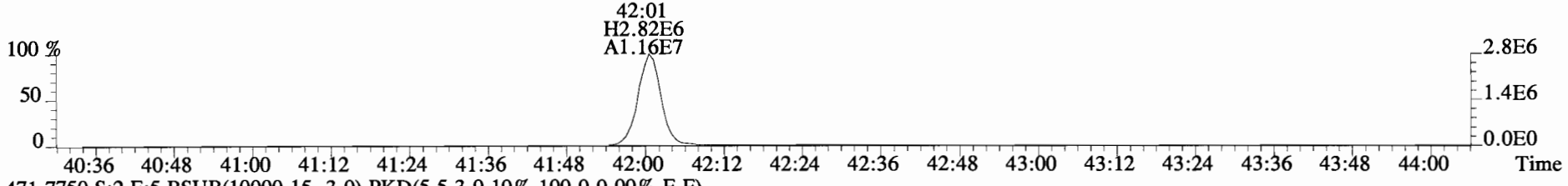
File:141023D2 #1-389 Acq:23-OCT-2014 19:17:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BS1 OPR 10 Exp:OCDD_DB5
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



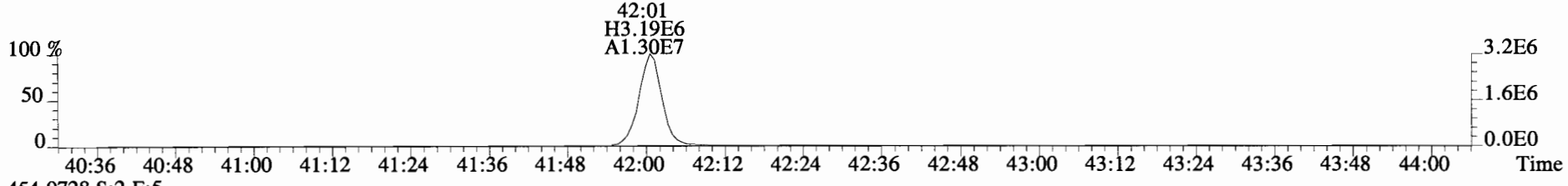
459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



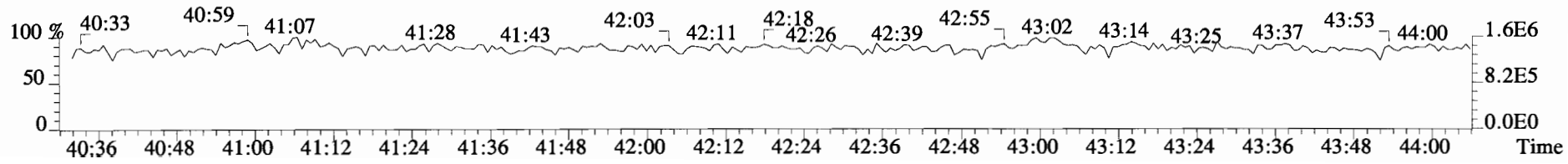
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



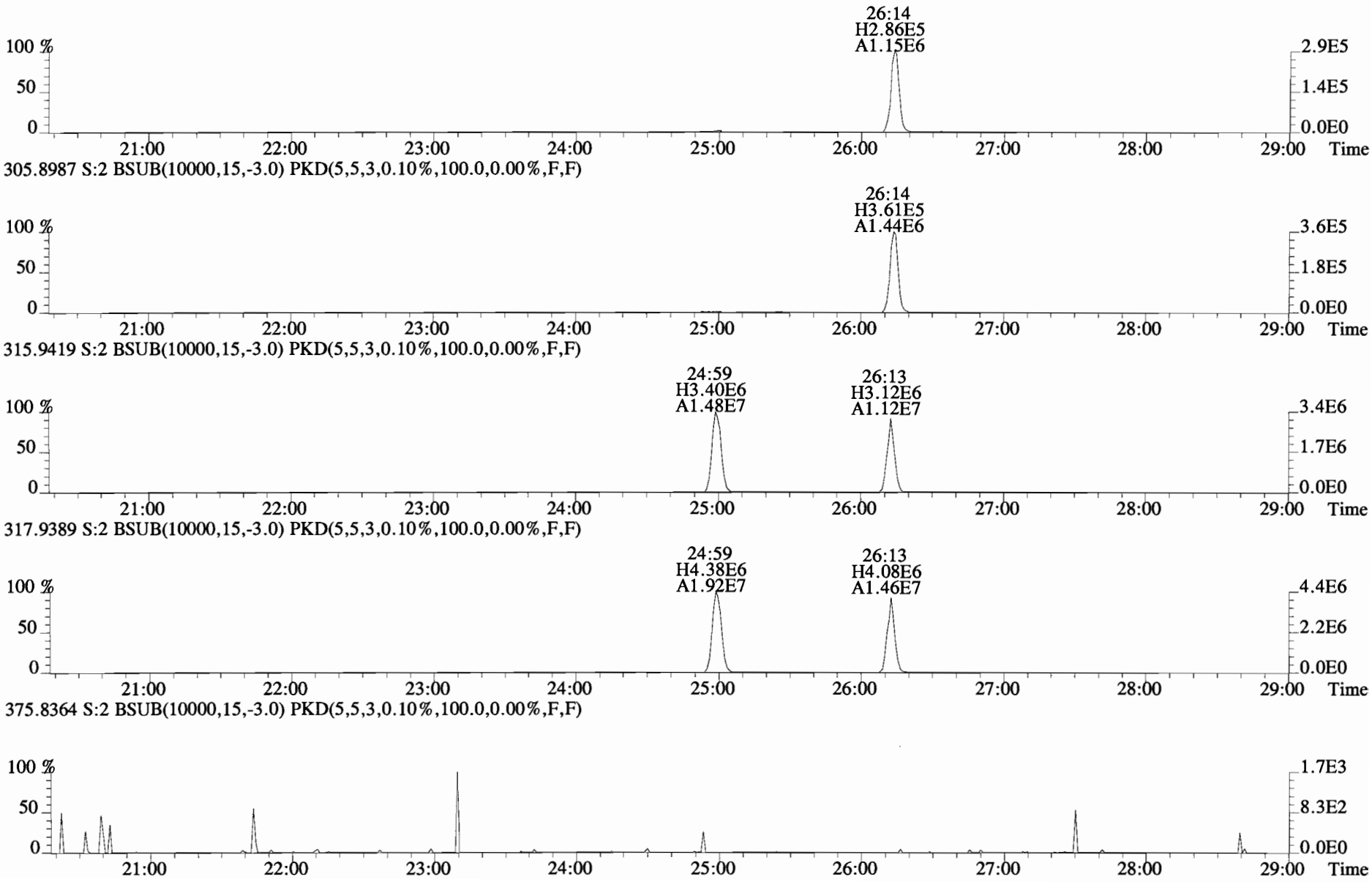
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



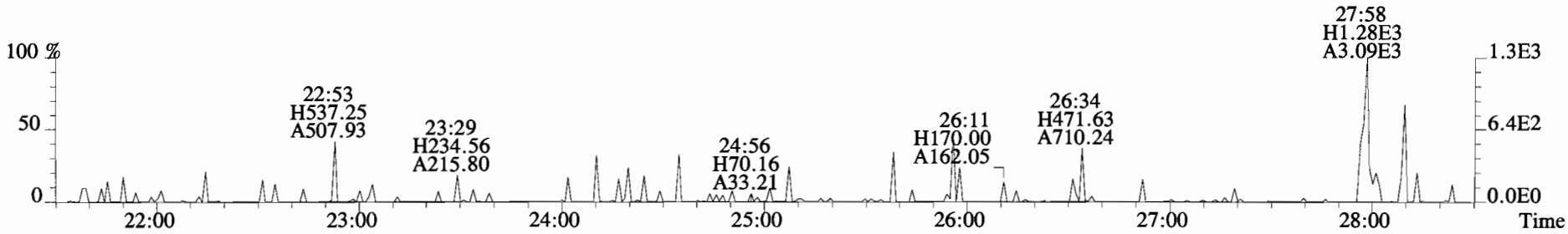
454.9728 S:2 F:5



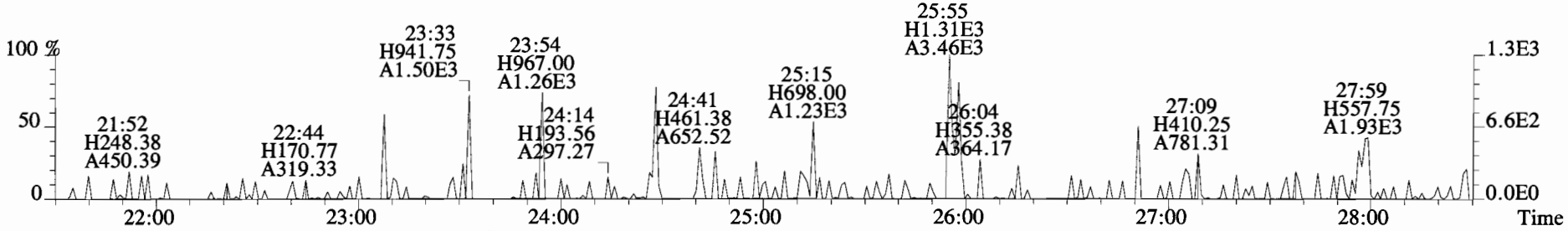
File:141023D2 #1-551 Acq:23-OCT-2014 19:17:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BS1 OPR 10 Exp:OCDD_DB5



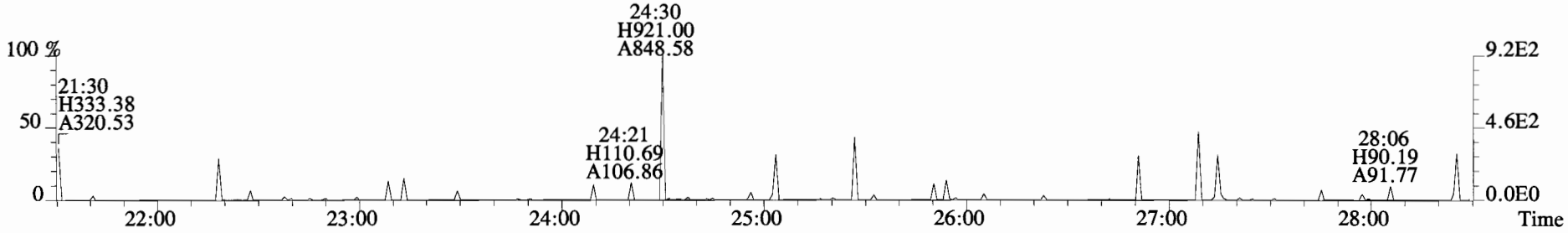
File:141023D2 #1-551 Acq:23-OCT-2014 19:17:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BS1 OPR 10 Exp:OCDD_DB5
339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



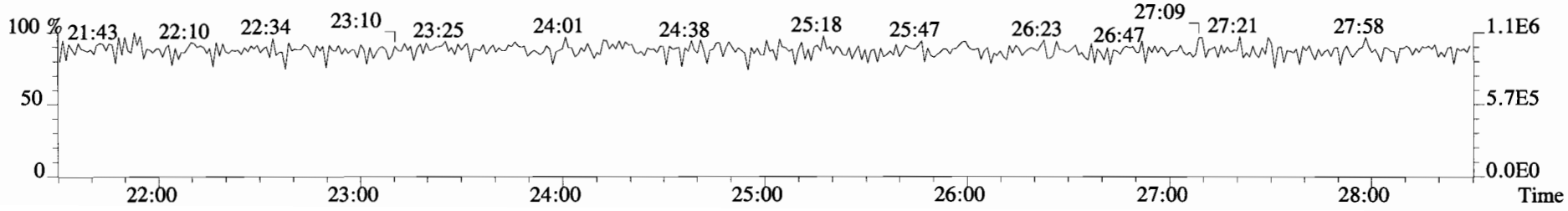
341.8568 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



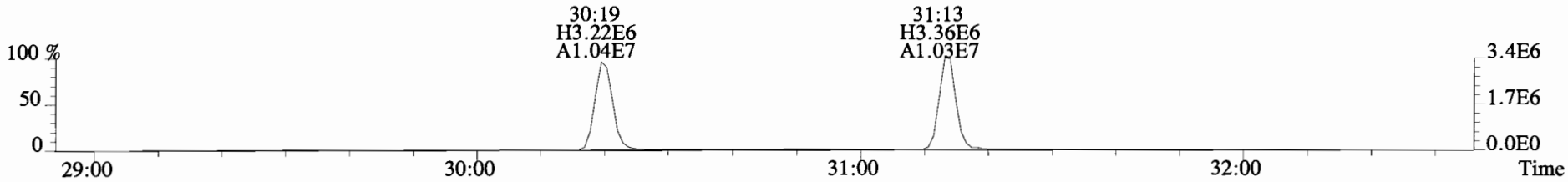
409.7974 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



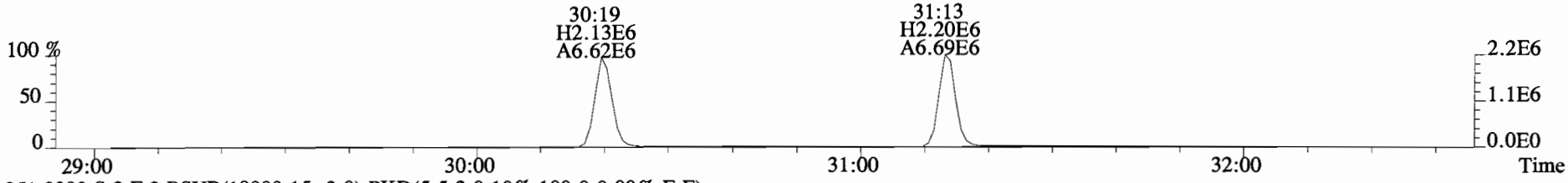
316.9824 S:2



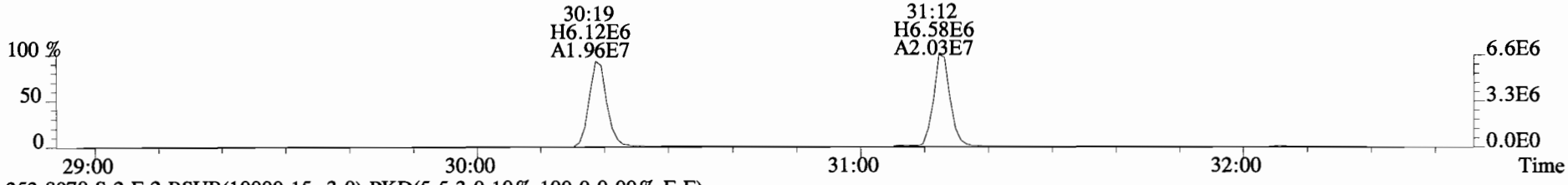
File:141023D2 #1-256 Acq:23-OCT-2014 19:17:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BS1 OPR 10 Exp:OCDD_DB5
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



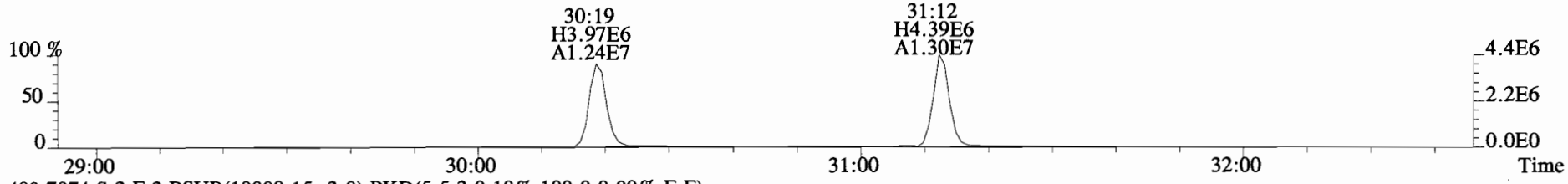
341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



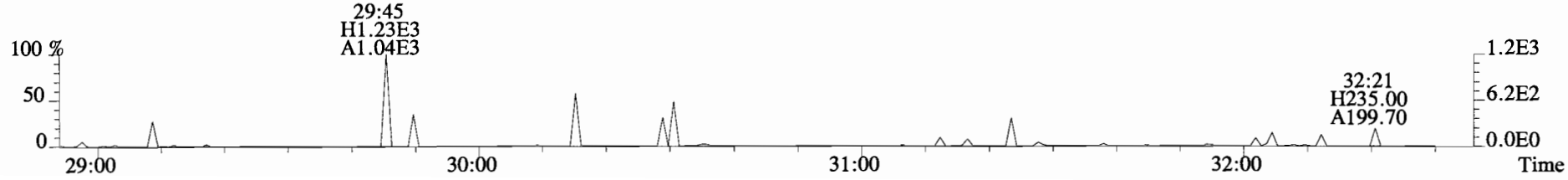
351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



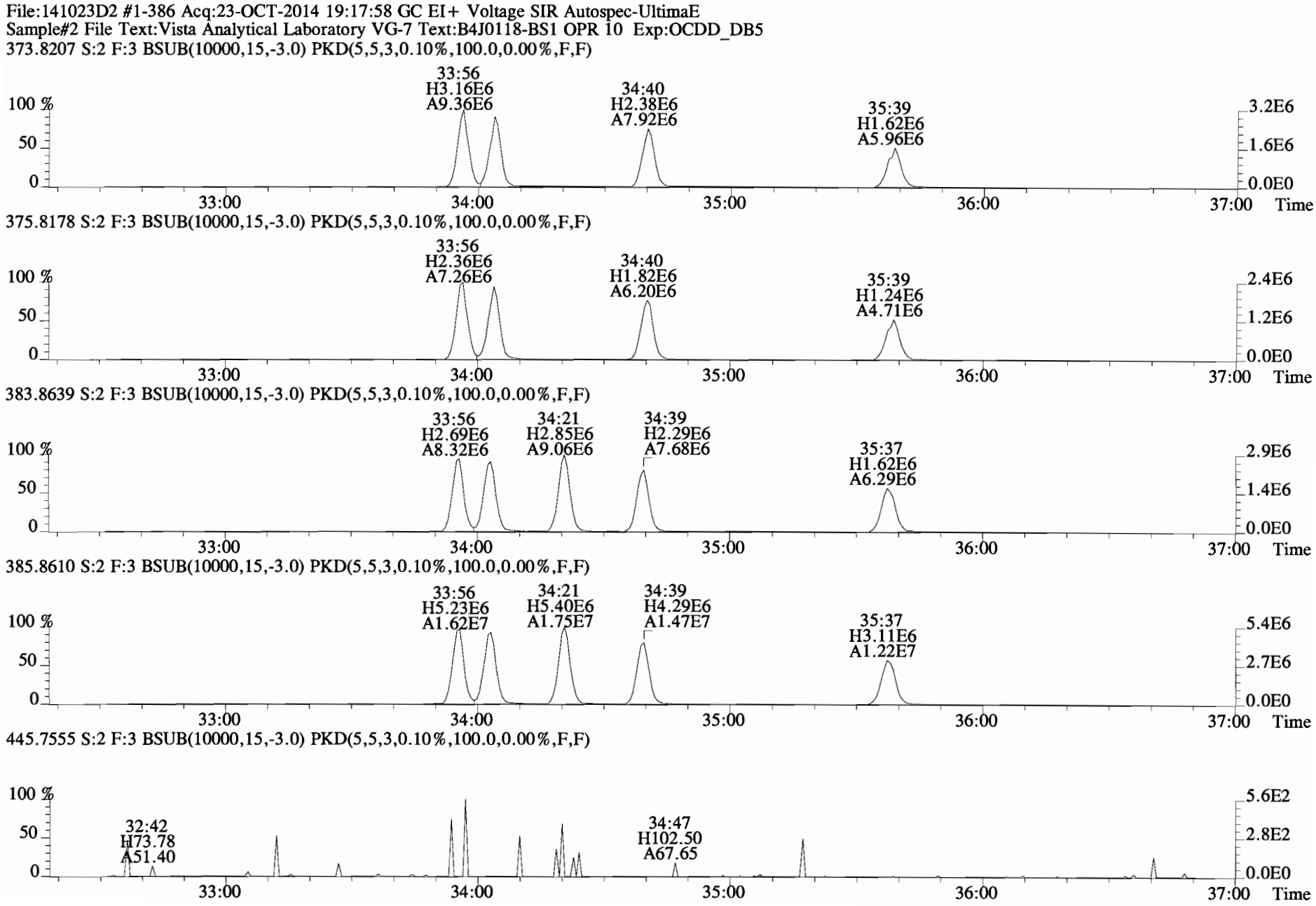
353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



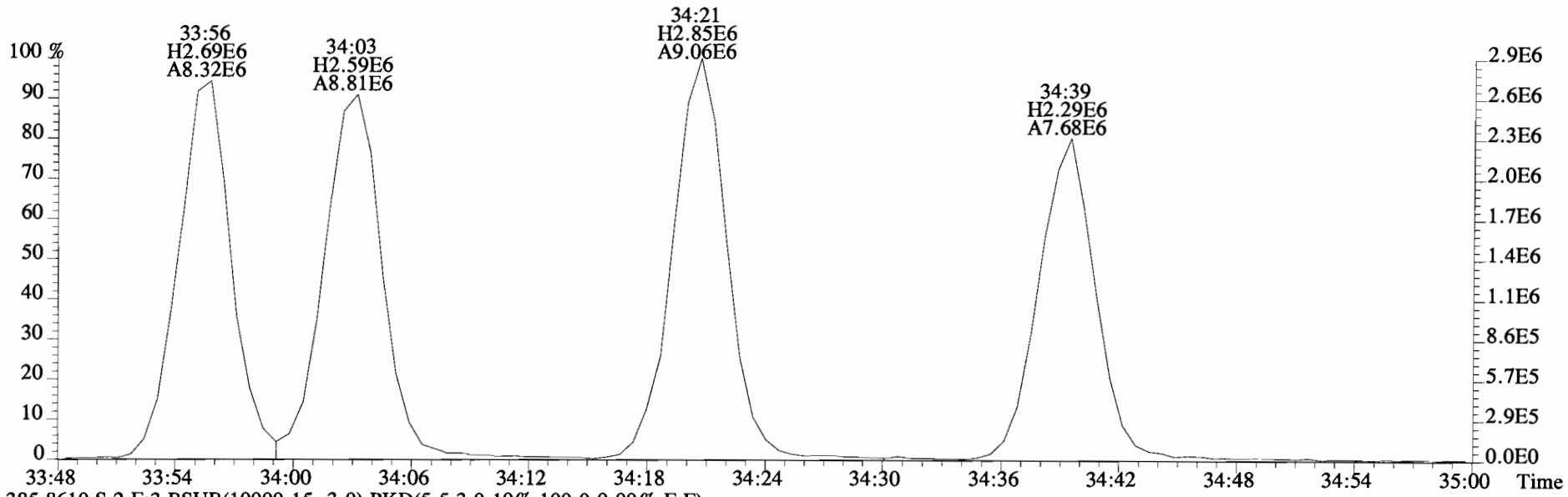
409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



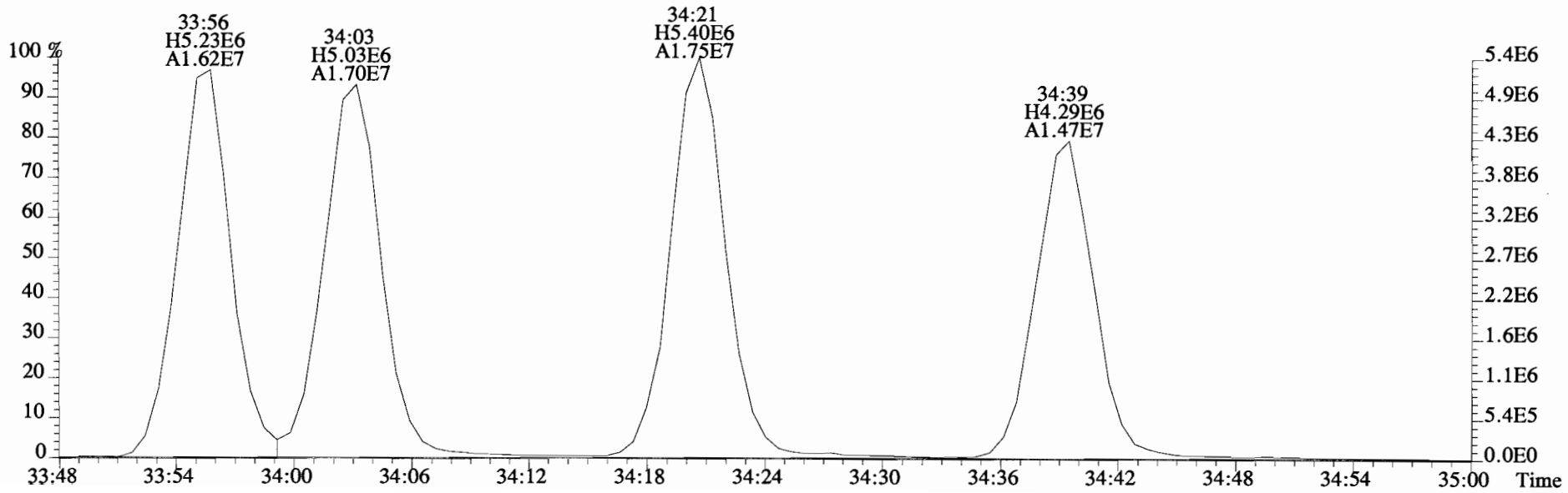
File:141023D2 #1-386 Acq:23-OCT-2014 19:17:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BS1 OPR 10 Exp:OCDD_DB5



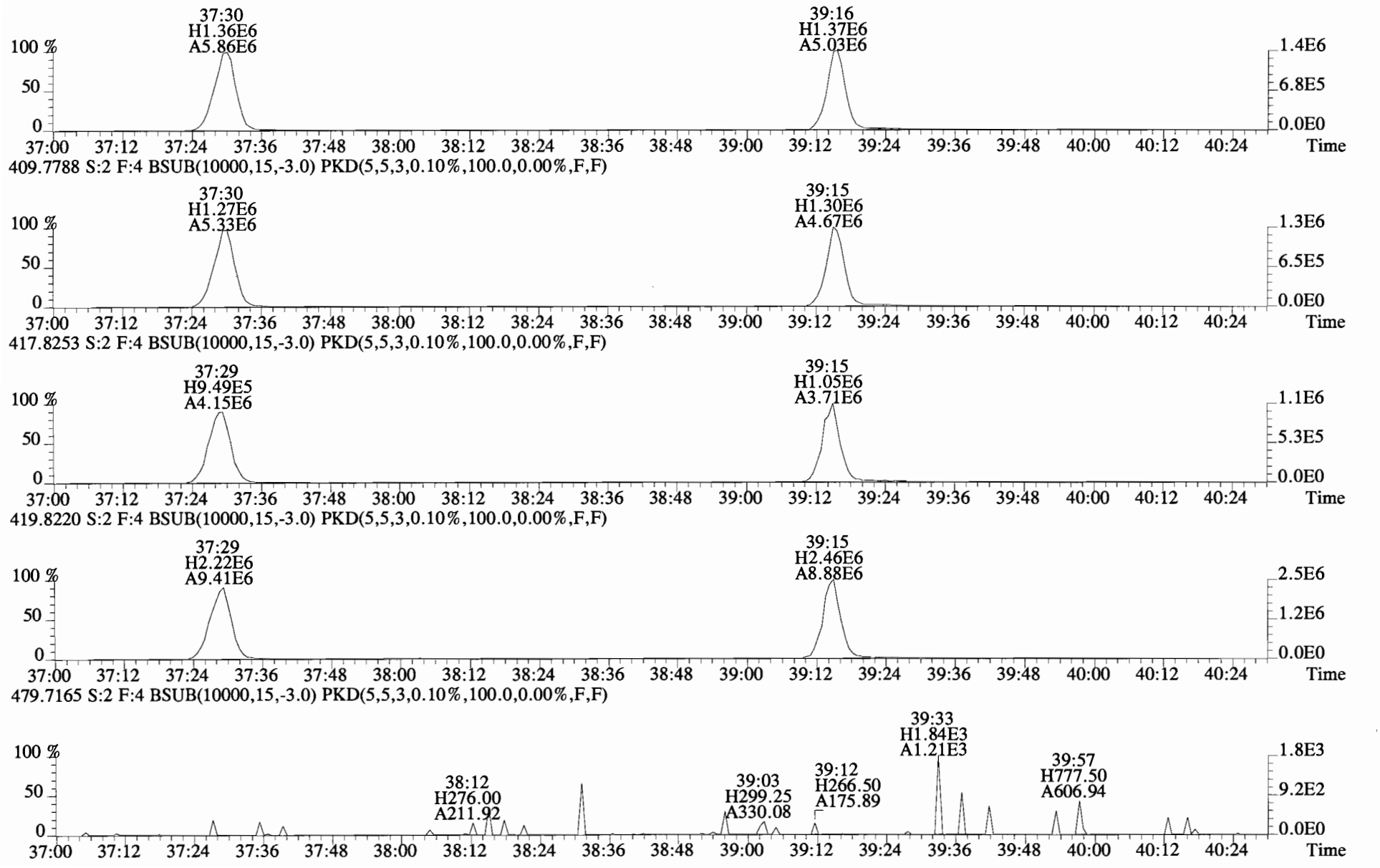
File:141023D2 #1-386 Acq:23-OCT-2014 19:17:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BS1 OPR 10 Exp:OCDD_DB5
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



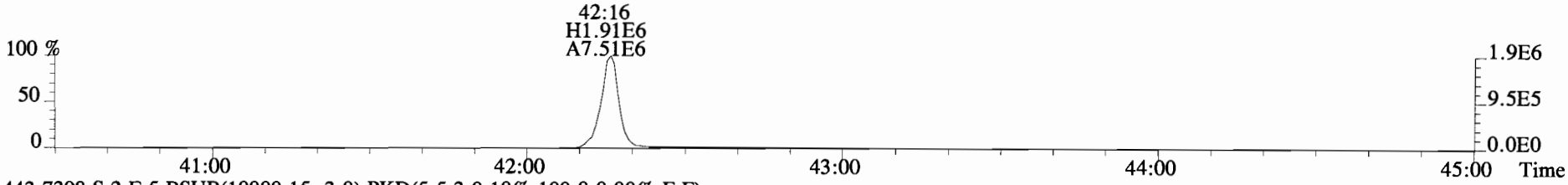
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



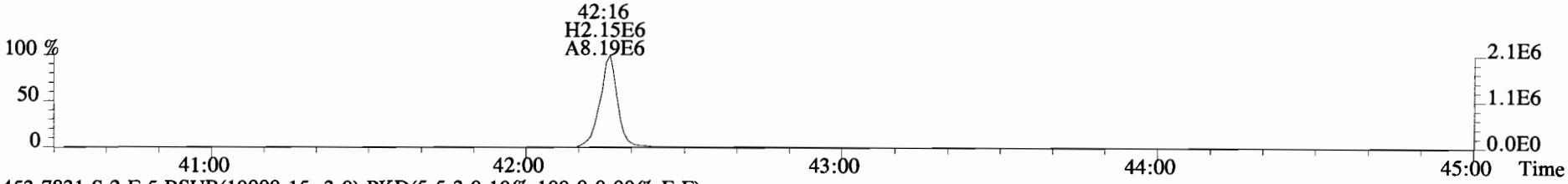
File:141023D2 #1-325 Acq:23-OCT-2014 19:17:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BS1 OPR 10 Exp:OCDD_DB5



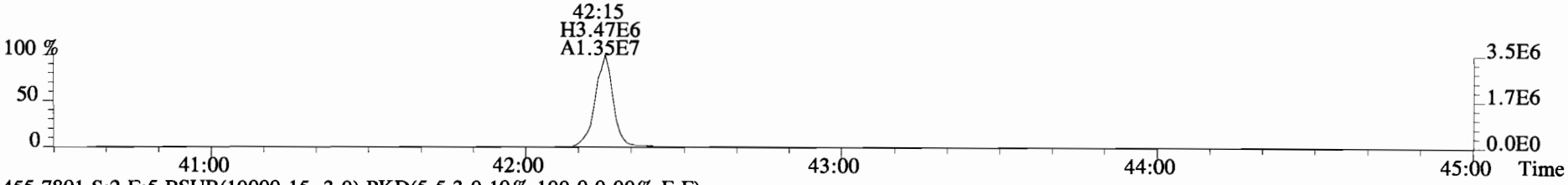
File:141023D2 #1-389 Acq:23-OCT-2014 19:17:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4J0118-BS1 OPR 10 Exp:OCDD_DB5
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



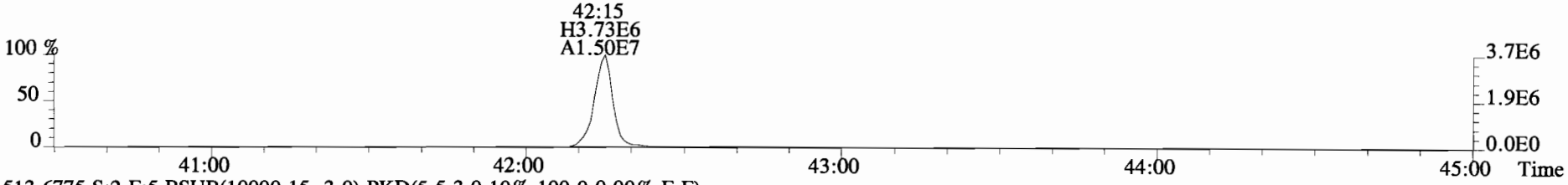
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



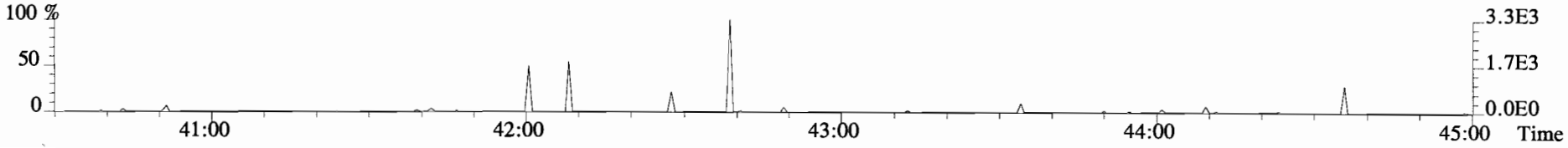
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



	Name	Resp	RA		RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	2.61e+04	0.55	n	1.18	27:02	1.000	0.46827		*	2.5	*
	1,2,3,7,8-PeCDD	1.02e+05	0.80	n	0.92	31:33	1.000	2.2175		*	2.5	*
	1,2,3,4,7,8-HxCDD	1.62e+05	1.12	y	1.09	34:54	1.000	3.9417		*	2.5	*
	1,2,3,6,7,8-HxCDD	4.25e+05	1.27	y	1.07	35:01	1.000	8.8873		*	2.5	*
	1,2,3,7,8,9-HxCDD	3.41e+05	1.28	y	0.93	35:19	1.000	7.7890		*	2.5	*
	1,2,3,4,6,7,8-HpCDD	7.27e+06	1.03	y	1.12	38:46	1.000	174.94		*	2.5	*
	OCDD	5.35e+07	0.90	y	0.95	42:06	1.000	1492.5		*	2.5	*
	2,3,7,8-TCDF	5.51e+05	0.84	y	1.08	26:16	1.001	7.3923	0.877	*	2.5	*
	1,2,3,7,8-PeCDF	1.87e+05	1.57	y	1.09	30:23	1.000	2.4255		*	2.5	*
	2,3,4,7,8-PeCDF	2.90e+05	1.56	y	1.04	31:17	1.000	4.1666		*	2.5	*
	1,2,3,4,7,8-HxCDF	3.23e+05	1.19	y	1.39	34:00	1.000	4.6569		*	2.5	*
	1,2,3,6,7,8-HxCDF	2.61e+05	1.31	y	1.26	34:07	1.000	3.5776		*	2.5	*
	2,3,4,6,7,8-HxCDF	2.95e+05	1.24	y	1.30	34:44	1.000	4.2858		*	2.5	*
	1,2,3,7,8,9-HxCDF	2.80e+04	1.32	y	1.19	35:42	1.000	0.50197		*	2.5	*
	1,2,3,4,6,7,8-HpCDF	2.24e+06	1.09	y	1.62	37:34	1.001	36.436		*	2.5	*
	1,2,3,4,7,8,9-HpCDF	1.90e+05	1.19	y	1.53	39:19	1.000	3.2718		*	2.5	*
	OCDF	3.01e+06	0.90	y	1.10	42:19	1.000	69.067		*	2.5	*
IS	13C-2,3,7,8-TCDD	9.41e+06	0.81	y	1.07	27:02	1.022	165.75				
IS	13C-1,2,3,7,8-PeCDD	1.00e+07	0.64	y	1.24	31:34	1.193	153.03				
IS	13C-1,2,3,4,7,8-HxCDD	7.53e+06	1.24	y	0.72	34:53	1.014	147.17				
IS	13C-1,2,3,6,7,8-HxCDD	8.96e+06	1.28	y	0.74	35:00	1.017	172.61				
IS	13C-1,2,3,7,8,9-HxCDD	9.39e+06	1.25	y	0.86	35:18	1.026	155.62				
IS	13C-1,2,3,4,6,7,8-HpCDD	7.44e+06	1.06	y	0.64	38:46	1.127	163.74				
IS	13C-OCDD	1.51e+07	0.89	y	0.78	42:05	1.223	272.58				
IS	13C-2,3,7,8-TCDF	1.38e+07	0.78	y	0.92	26:15	0.992	170.58				
IS	13C-1,2,3,7,8-PeCDF	1.41e+07	1.56	y	0.95	30:22	1.148	169.28				
IS	13C-2,3,4,7,8-PeCDF	1.33e+07	1.58	y	0.97	31:17	1.183	156.54				
IS	13C-1,2,3,4,7,8-HxCDF	9.97e+06	0.51	y	0.99	33:59	0.988	142.60				
IS	13C-1,2,3,6,7,8-HxCDF	1.16e+07	0.53	y	1.10	34:07	0.992	149.13				
IS	13C-2,3,4,6,7,8-HxCDF	1.06e+07	0.53	y	1.03	34:44	1.009	145.26				
IS	13C-1,2,3,7,8,9-HxCDF	9.36e+06	0.52	y	0.86	35:42	1.037	154.64				
IS	13C-1,2,3,4,6,7,8-HpCDF	7.59e+06	0.44	y	0.71	37:33	1.091	150.65				
IS	13C-1,2,3,4,7,8,9-HpCDF	7.58e+06	0.42	y	0.71	39:19	1.143	151.81				
IS	13C-OCDF	1.58e+07	0.88	y	0.87	42:19	1.230	256.03				
C/Up	37Cl-2,3,7,8-TCDD	4.24e+06			1.21	27:02	1.022	66.127				
RS/RT	13C-1,2,3,4-TCDD	1.06e+07	0.83	y	1.00	26:27	*	199.68				
RS	13C-1,2,3,4-TCDF	1.75e+07	0.78	y	1.00	25:01	*	199.68				
RS/RT	13C-1,2,3,4,6,9-HxCDF	1.41e+07	0.51	y	1.00	34:24	*	199.68				

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	12.0	13.0		*	*
Total Penta-Dioxins	24.0	26.3		*	*
Total Hexa-Dioxins	98.7	98.7		*	*
Total Hepta-Dioxins	353	353		*	*
Total Tetra-Furans	77.9	78.6		*	*
Total Penta-Furans	59.758	59.758		*	*
Total Hexa-Furans	59.4	59.4		*	*
Total Hepta-Furans	80.1	80.1		*	*

Rec	Qual
83.0	
76.6	
73.7	
86.4	
77.9	
82.0	
68.3	
85.4	
84.8	
78.4	
71.4	
74.7	
72.7	
77.4	
75.4	
76.0	
64.1	
82.8	

Integrations by Analyst: (M) Date: 10/28/14

Reviewed by Analyst: Date: 10/29/14

Totals class: TCDD EMPC Entry #: 19

Run: 19 File: 141027D1 S: 13 I: 1 F: 1
Acquired: 28-OCT-14 00:13:15 Processed: 28-OCT-14 08:33:56

Total Concentration: 13.045 Unnamed Concentration: 12.577

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
23:37	1.014e+05	1.190e+05	0.85	y	2.204e+05	3.9507	
23:59	6.571e+04	8.218e+04	0.80	y	1.479e+05	2.6505	
24:24	1.453e+04	1.660e+04	0.88	y	3.113e+04	0.55789	
25:22	3.365e+04	3.924e+04	0.86	y	7.289e+04	1.3063	
25:33	2.650e+04	3.631e+04	0.73	y	6.281e+04	1.1257	
25:43	1.022e+04	1.205e+04	0.85	y	2.227e+04	0.39922	
25:57	6.043e+03	5.064e+03	1.19	n	8.963e+03	0.16064	
26:06	1.188e+04	1.720e+04	0.69	y	2.908e+04	0.52122	
26:26	1.640e+04	2.159e+04	0.76	y	3.799e+04	0.68088	
26:48	1.847e+04	2.424e+04	0.76	y	4.270e+04	0.76535	
27:02	1.137e+04	2.064e+04	0.55	n	2.613e+04	0.46827	2,3,7,8-TCDD
27:19	1.368e+04	1.445e+04	0.95	n	2.558e+04	0.45856	

Totals class: PeCDD EMPC Entry #: 21

Run: 19 File: 141027D1 S: 13 I: 1 F: 2
Acquired: 28-OCT-14 00:13:15 Processed: 28-OCT-14 08:33:56

Total Concentration: 26.265 Unnamed Concentration: 24.048

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
29:30	1.132e+05	1.837e+05	0.62	y	2.968e+05	6.4345	
29:57	3.169e+04	5.788e+04	0.55	y	8.957e+04	1.9417	
30:24	6.561e+04	1.029e+05	0.64	y	1.686e+05	3.6540	
30:33	4.749e+04	7.784e+04	0.61	y	1.253e+05	2.7170	
30:39	5.184e+04	8.697e+04	0.60	y	1.388e+05	3.0093	
30:51	5.942e+04	8.483e+04	0.70	y	1.443e+05	3.1271	
31:09	1.968e+04	3.666e+04	0.54	y	5.634e+04	1.2214	
31:33	5.033e+04	6.275e+04	0.80	n	1.023e+05	2.2175	1,2,3,7,8-PeCDD
31:38	1.550e+04	2.646e+04	0.59	y	4.196e+04	0.90971	
31:55	1.988e+04	2.777e+04	0.72	y	4.765e+04	1.0330	

Totals class: HxCDD EMPC Entry #: 23

Run: 19 File: 141027D1 S: 13 I: 1 F: 3
Acquired: 28-OCT-14 00:13:15 Processed: 28-OCT-14 08:33:56

Total Concentration: 98.720 Unnamed Concentration: 78.102

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
33:20	5.958e+05	4.750e+05	1.25 y	1.071e+06	24.233	
33:55	3.013e+05	2.281e+05	1.32 y	5.293e+05	11.979	
34:11	8.947e+05	7.147e+05	1.25 y	1.609e+06	36.421	
34:19	7.144e+04	5.889e+04	1.21 y	1.303e+05	2.9494	
34:54	8.527e+04	7.623e+04	1.12 y	1.615e+05	3.9417	1,2,3,4,7,8-HxCDD
35:01	2.384e+05	1.871e+05	1.27 y	4.255e+05	8.8873	1,2,3,6,7,8-HxCDD
35:13	6.399e+04	4.732e+04	1.35 y	1.113e+05	2.5190	
35:19	1.917e+05	1.493e+05	1.28 y	3.410e+05	7.7890	1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC Entry #: 25

Run: 19 File: 141027D1 S: 13 I: 1 F: 4
Acquired: 28-OCT-14 00:13:15 Processed: 28-OCT-14 08:33:56

Total Concentration: 352.84 Unnamed Concentration: 177.902

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
37:56	3.723e+06	3.669e+06	1.01 y	7.392e+06	177.90	
38:46	3.681e+06	3.588e+06	1.03 y	7.269e+06	174.94	1,2,3,4,6,7,8-HpCDD

Totals class: TCDF EMPC Entry #: 27

Run: 19 File: 141027D1 S: 13 I: 1 F: 1
Acquired: 28-OCT-14 00:13:15 Processed: 28-OCT-14 08:33:56

Total Concentration: 78.638 Unnamed Concentration: 71.246

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
21:27	1.574e+04	1.871e+04	0.84	y	3.446e+04	0.46232	
22:02	6.325e+04	8.823e+04	0.72	y	1.515e+05	2.0324	
22:41	1.493e+05	1.902e+05	0.79	y	3.396e+05	4.5561	
23:12	2.146e+05	2.916e+05	0.74	y	5.062e+05	6.7917	
23:35	2.096e+05	2.504e+05	0.84	y	4.600e+05	6.1723	
24:01	9.571e+04	1.216e+05	0.79	y	2.174e+05	2.9165	
24:09	1.594e+05	2.111e+05	0.76	y	3.705e+05	4.9718	
24:18	1.903e+05	2.316e+05	0.82	y	4.219e+05	5.6604	
24:40	3.304e+04	3.877e+04	0.85	y	7.181e+04	0.96352	
24:47	7.019e+04	9.847e+04	0.71	y	1.687e+05	2.2631	
24:56	1.529e+05	1.860e+05	0.82	y	3.389e+05	4.5479	
25:03	1.381e+05	2.064e+05	0.67	y	3.445e+05	4.6227	
25:27	1.444e+05	1.944e+05	0.74	y	3.388e+05	4.5461	
25:42	9.189e+04	1.369e+05	0.67	y	2.288e+05	3.0701	
25:52	4.910e+04	6.741e+04	0.73	y	1.165e+05	1.5633	
26:04	5.012e+04	5.913e+04	0.85	y	1.093e+05	1.4659	
26:09	4.499e+04	6.360e+04	0.71	y	1.086e+05	1.4570	
26:16	2.508e+05	3.001e+05	0.84	y	5.509e+05	7.3923	2,3,7,8-TCDF
26:35	3.730e+05	4.830e+05	0.77	y	8.561e+05	11.487	
26:48	2.903e+04	4.091e+04	0.71	y	6.994e+04	0.93846	
28:02	3.731e+04	3.189e+04	1.17	n	5.645e+04	0.75748	

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 19 File: 141027D1 S: 13 I: 1 F: 1
Acquired: 28-OCT-14 00:13:15 Processed: 28-OCT-14 08:33:56

Total Concentration: 14.292 Unnamed Concentration: 14.292

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
28:01	6.401e+05	4.055e+05	1.58	y	1.046e+06	14.292	

Totals class: PeCDF EMPC Entry #: 31

Run: 19 File: 141027D1 S: 13 I: 1 F: 2
Acquired: 28-OCT-14 00:13:15 Processed: 28-OCT-14 08:33:56

Total Concentration: 45.466 Unnamed Concentration: 38.874

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
29:20	2.636e+05	1.649e+05	1.60	y	4.286e+05	5.8577	
29:29	7.007e+05	4.565e+05	1.53	y	1.157e+06	15.816	
29:49	4.905e+04	3.707e+04	1.32	y	8.612e+04	1.1771	
30:01	2.866e+05	1.790e+05	1.60	y	4.657e+05	6.3646	
30:13	6.993e+04	4.083e+04	1.71	y	1.108e+05	1.5139	
30:23	1.139e+05	7.268e+04	1.57	y	1.866e+05	2.4255	1,2,3,7,8-PeCDF
30:37	1.653e+05	1.218e+05	1.36	y	2.871e+05	3.9243	
31:05	1.610e+04	9.689e+03	1.66	y	2.579e+04	0.35249	
31:11	1.225e+05	7.432e+04	1.65	y	1.968e+05	2.6901	
31:17	1.765e+05	1.132e+05	1.56	y	2.897e+05	4.1666	2,3,4,7,8-PeCDF
31:20	3.927e+04	2.523e+04	1.56	y	6.450e+04	0.88156	
32:10	1.337e+04	8.306e+03	1.61	y	2.167e+04	0.29622	

Totals class: HxCDF EMPC Entry #: 33

Run: 19 File: 141027D1 S: 13 I: 1 F: 3
Acquired: 28-OCT-14 00:13:15 Processed: 28-OCT-14 08:33:56

Total Concentration: 59.352 Unnamed Concentration: 46.330

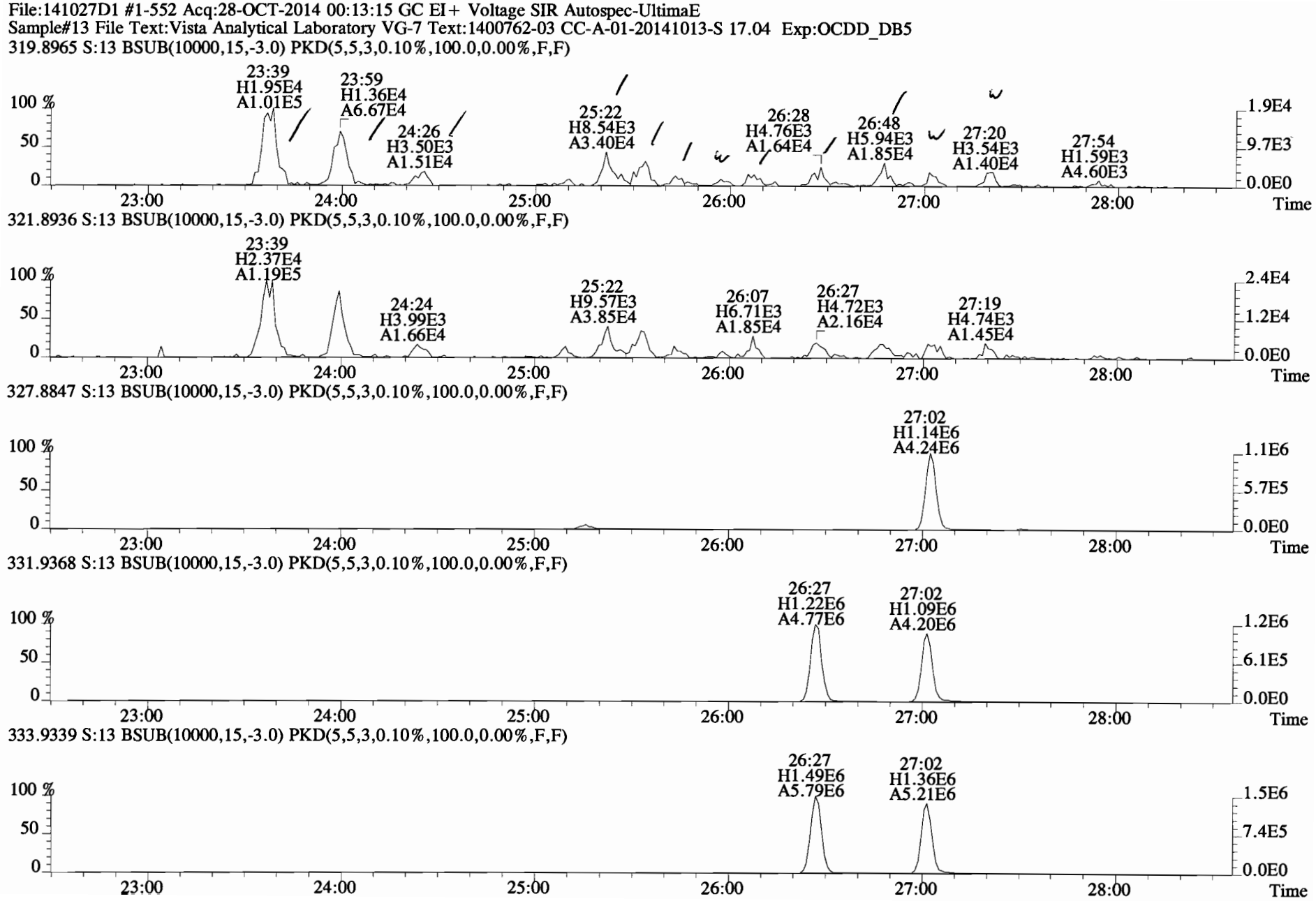
RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
32:48	2.560e+05	2.071e+05	1.24 y	4.630e+05	6.9265	
32:58	9.329e+05	7.255e+05	1.29 y	1.658e+06	24.807	
33:20	3.998e+04	3.119e+04	1.28 y	7.117e+04	1.0647	
33:31	3.808e+05	2.851e+05	1.34 y	6.659e+05	9.9609	
33:53	8.835e+04	6.999e+04	1.26 y	1.583e+05	2.3686	
34:00	1.756e+05	1.475e+05	1.19 y	3.230e+05	4.6569	1,2,3,4,7,8-HxCDF
34:07	1.481e+05	1.132e+05	1.31 y	2.613e+05	3.5776	1,2,3,6,7,8-HxCDF
34:24	2.327e+04	2.186e+04	1.06 y	4.514e+04	0.67520	
34:44	1.634e+05	1.313e+05	1.24 y	2.947e+05	4.2858	2,3,4,6,7,8-HxCDF
35:42	1.594e+04	1.209e+04	1.32 y	2.804e+04	0.50197	1,2,3,7,8,9-HxCDF
35:45	1.967e+04	1.553e+04	1.27 y	3.521e+04	0.52663	

Totals class: HpCDF EMPC Entry #: 35

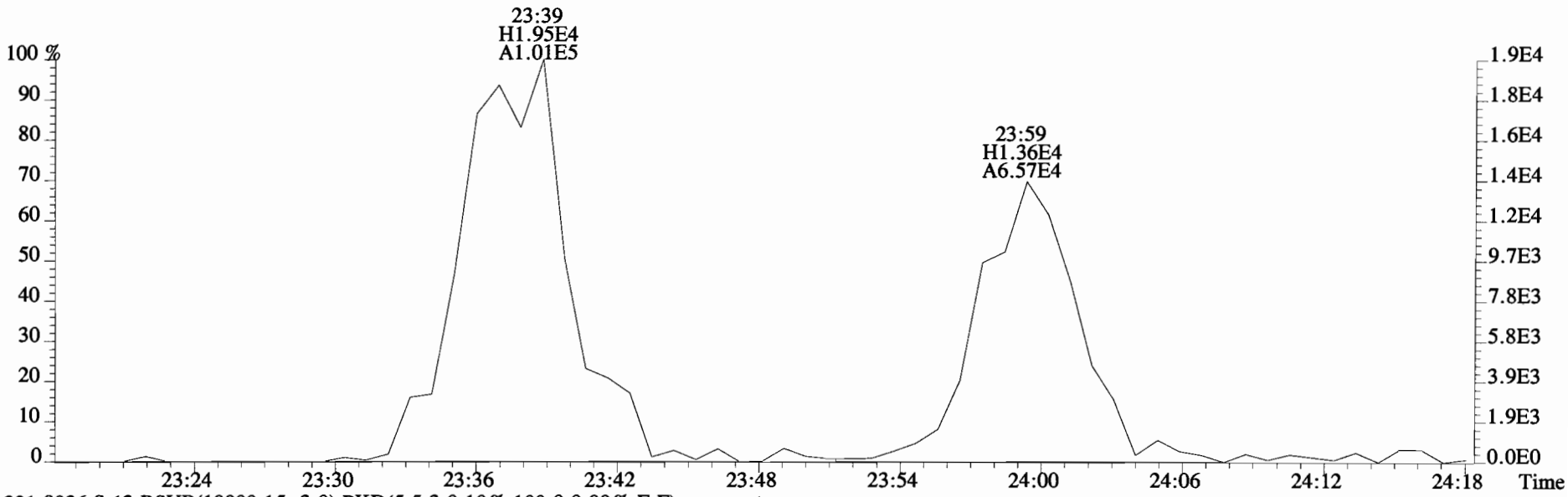
Run: 19 File: 141027D1 S: 13 I: 1 F: 4
Acquired: 28-OCT-14 00:13:15 Processed: 28-OCT-14 08:33:56

Total Concentration: 80.071 Unnamed Concentration: 40.363

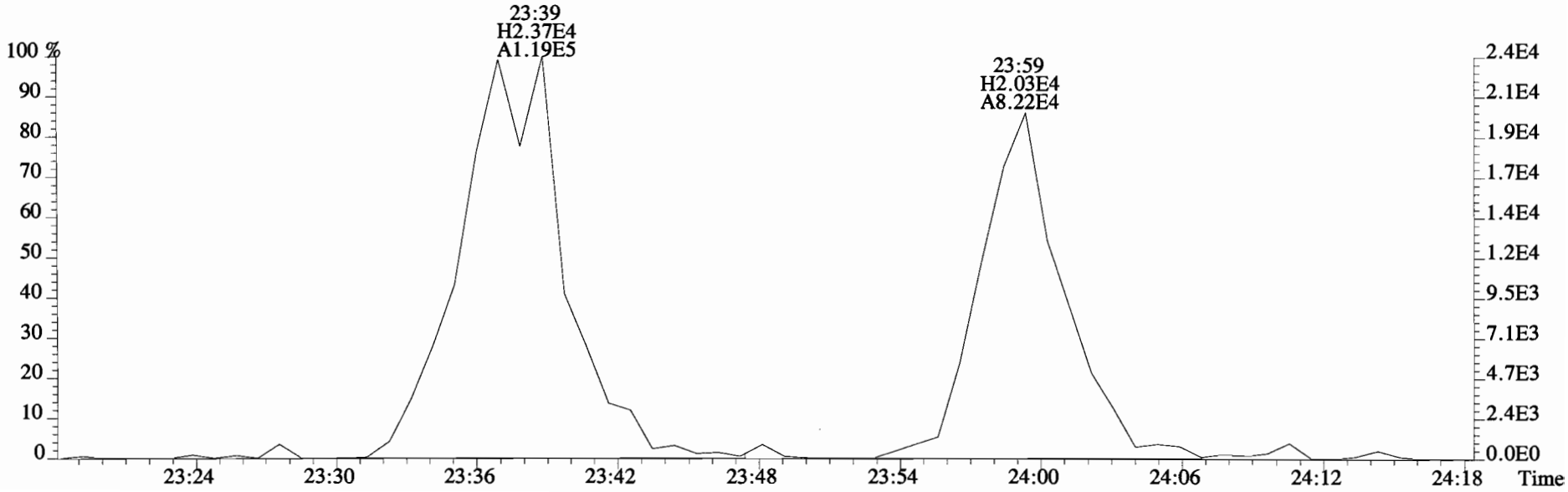
RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
37:34	1.166e+06	1.070e+06	1.09 y	2.237e+06	36.436	1,2,3,4,6,7,8-HpCDF
37:56	6.597e+04	5.664e+04	1.16 y	1.226e+05	2.0546	
38:08	1.203e+06	1.083e+06	1.11 y	2.286e+06	38.309	
39:19	1.030e+05	8.661e+04	1.19 y	1.897e+05	3.2718	1,2,3,4,7,8,9-HpCDF


File:141027D1 #1-552 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
319.8965 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
23:39 H1.95E4 A1.01E5
23:59 H1.36E4 A6.67E4
24:26 H3.50E3 A1.51E4
25:22 H8.54E3 A3.40E4
26:28 H4.76E3 A1.64E4
26:48 H5.94E3 A1.85E4
27:20 H3.54E3 A1.40E4
27:54 H1.59E3 A4.60E4
321.8936 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
23:39 H2.37E4 A1.19E5
24:24 H3.99E3 A1.66E4
25:22 H9.57E3 A3.85E4
26:07 H6.71E3 A1.85E4
26:27 H4.72E3 A2.16E4
27:19 H4.74E3 A1.45E4
327.8847 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
27:02 H1.14E6 A4.24E6
331.9368 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
26:27 H1.22E6 A4.77E6
27:02 H1.09E6 A4.20E6
333.9339 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
26:27 H1.49E6 A5.79E6
27:02 H1.36E6 A5.21E6
100 %
50
0
23:00
24:00
25:00
26:00
27:00
28:00
Time
1.9E4
9.7E3
0.0E0
2.4E4
1.2E4
1.1E6
5.7E5
1.2E6
6.1E5
1.5E6
7.4E5

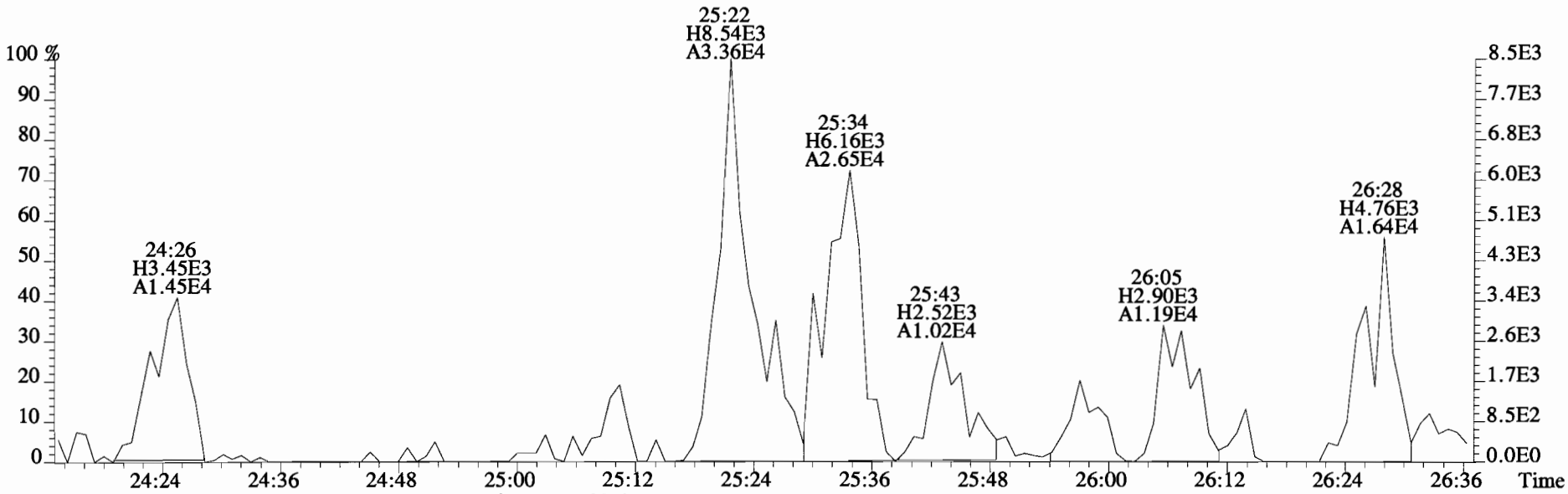
File:141027D1 #1-552 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
319.8965 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



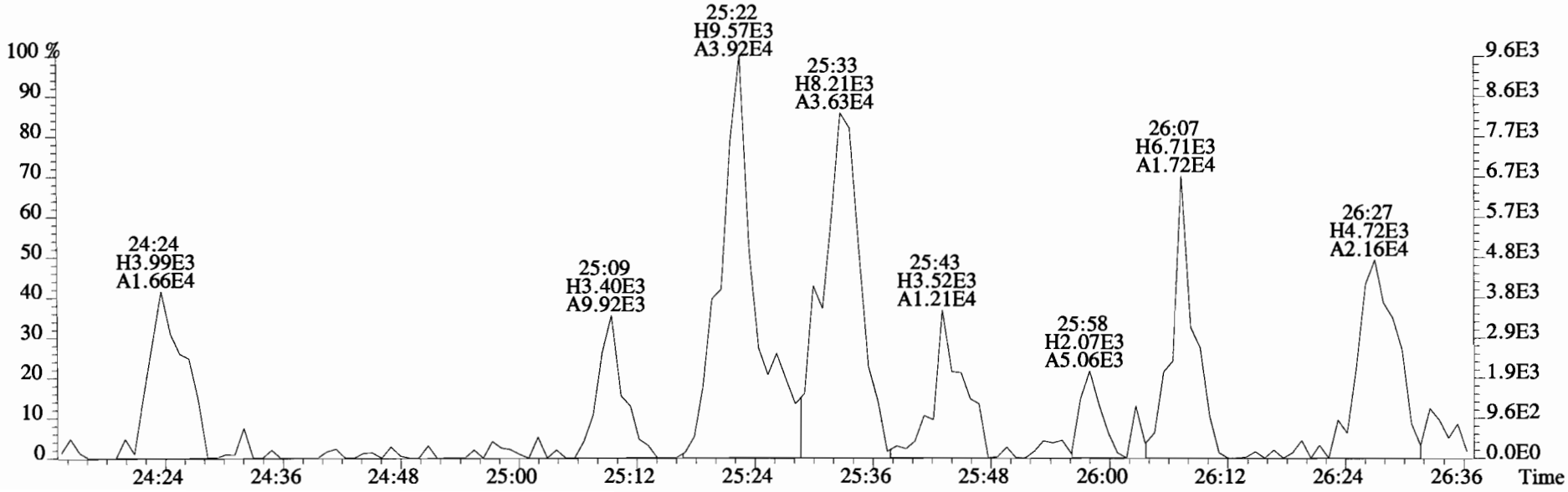
321.8936 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



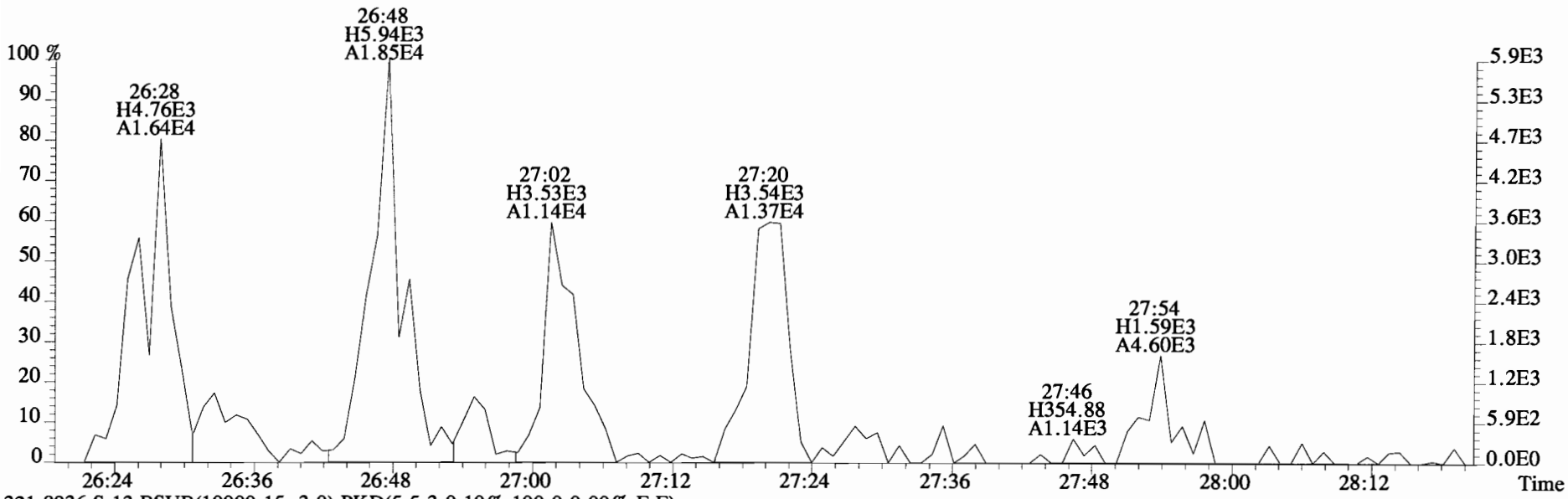
File:141027D1 #1-552 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
319.8965 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



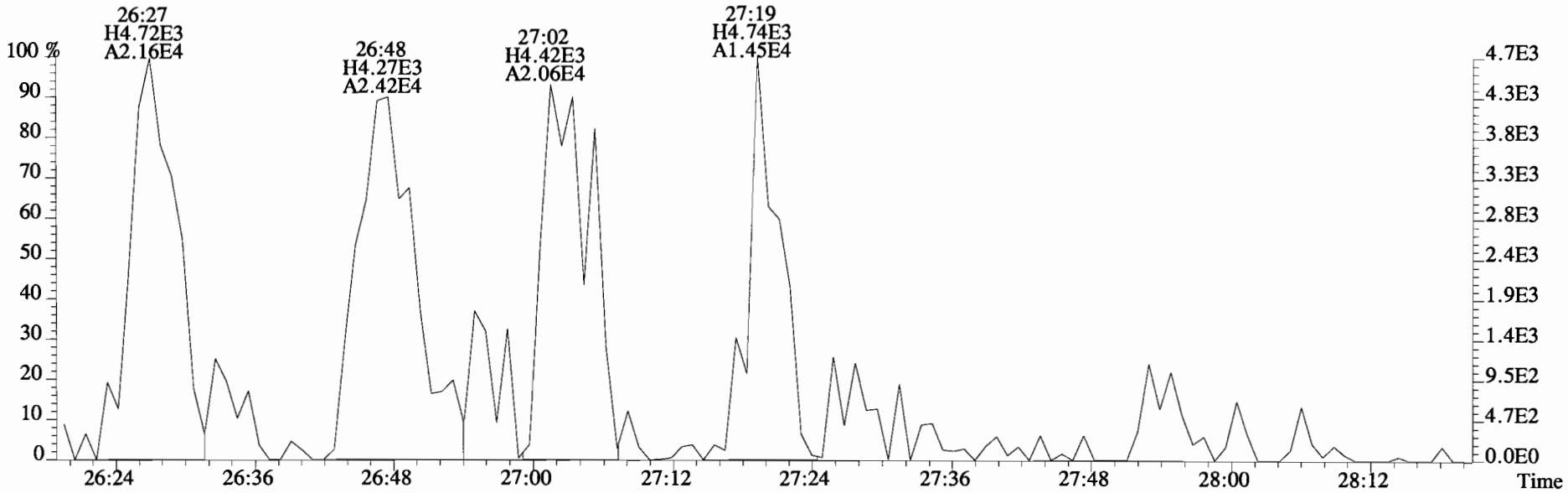
321.8936 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

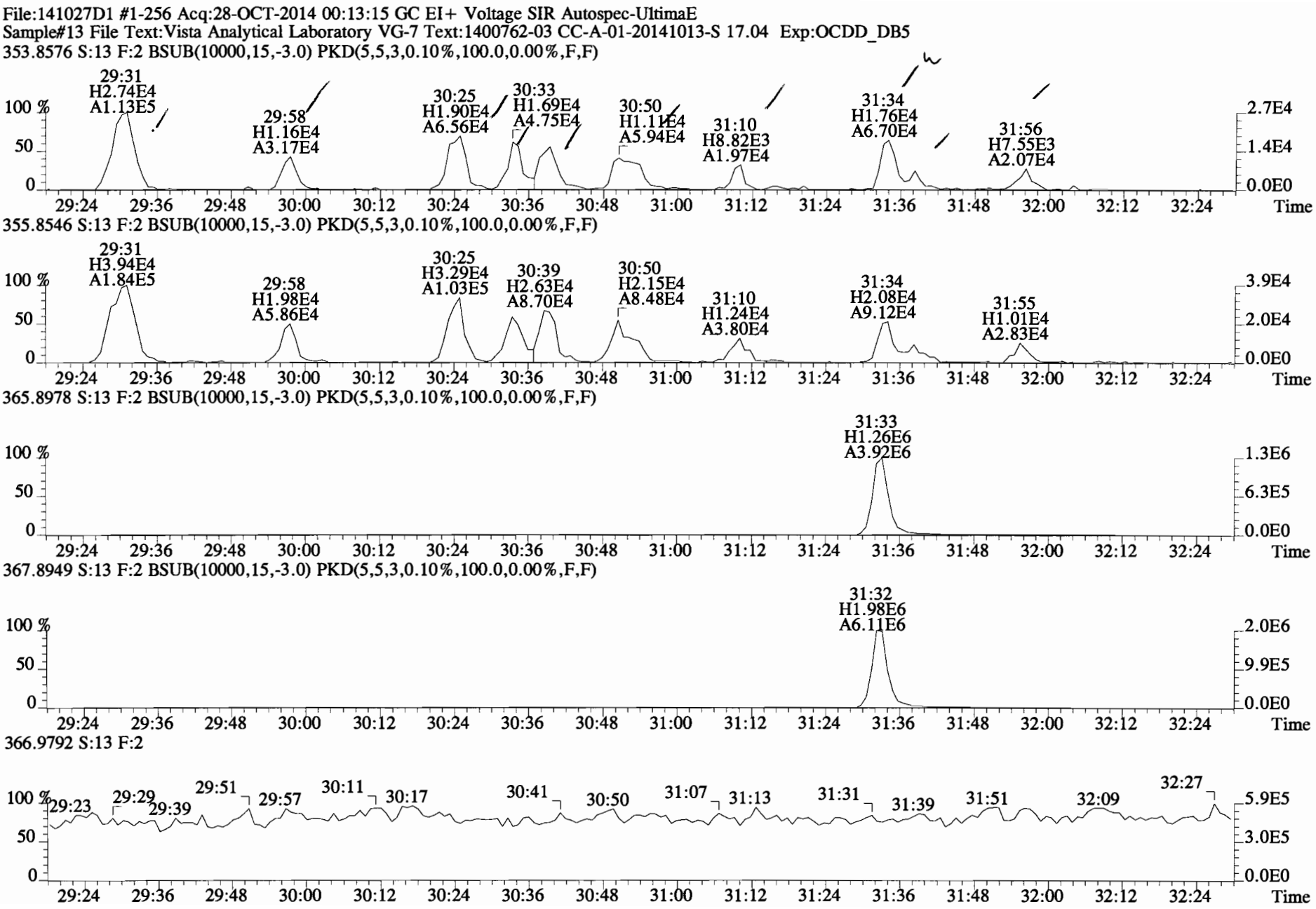


File:141027D1 #1-552 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
319.8965 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

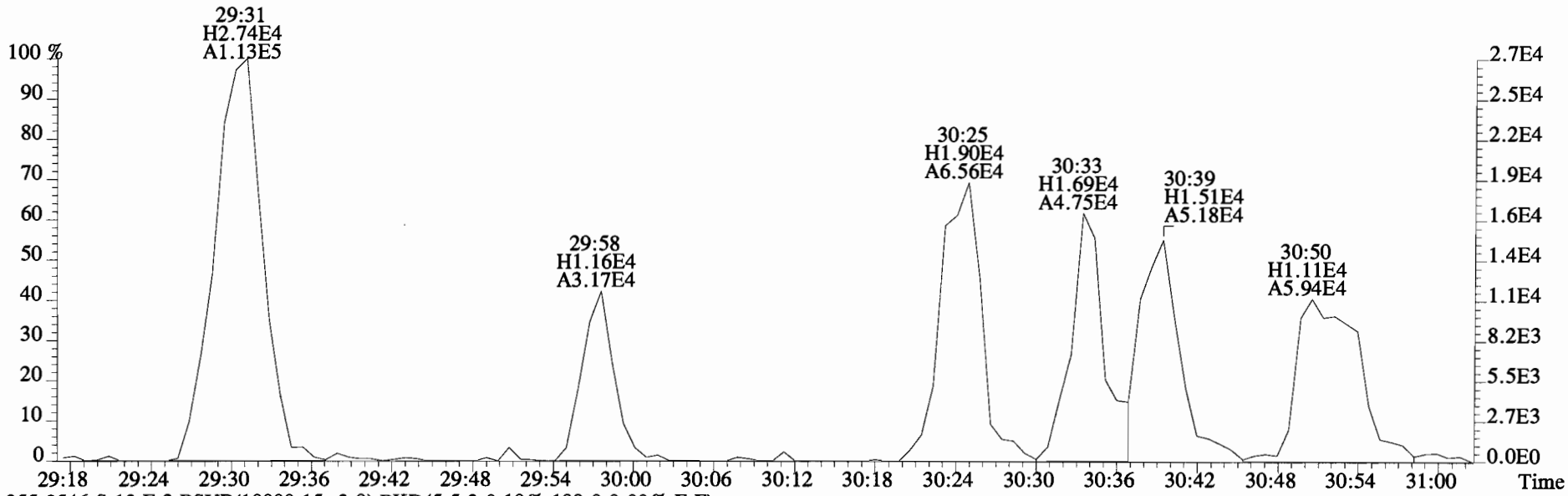


321.8936 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

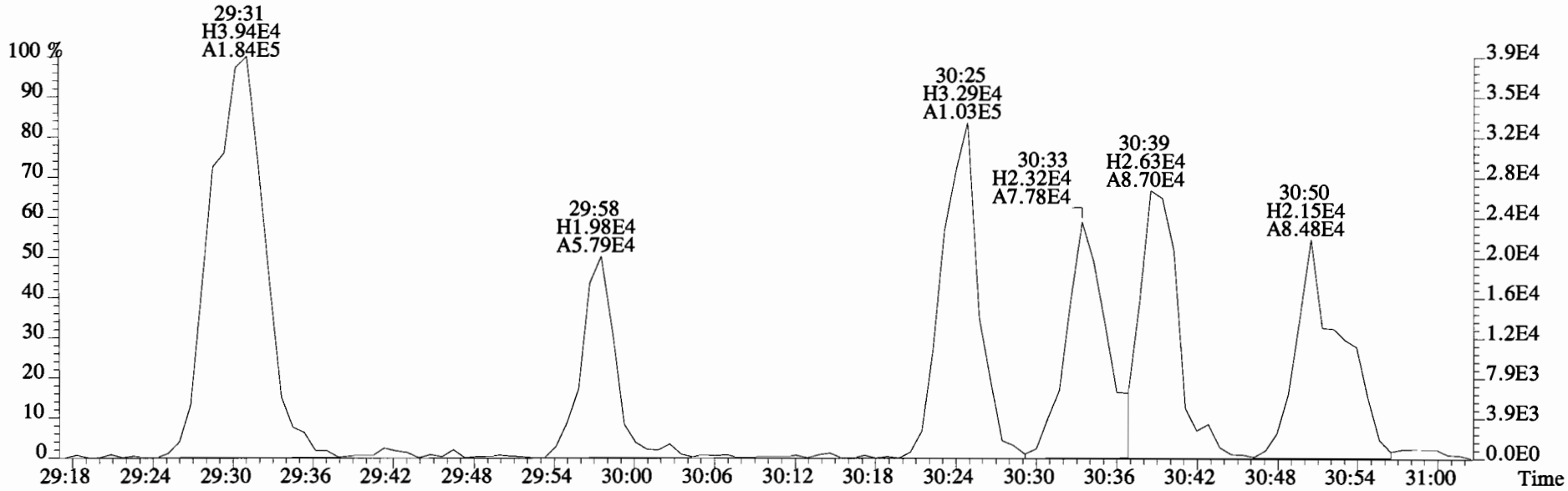



File:141027D1 #1-256 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
353.8576 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
29:31 H2.74E4 A1.13E5
29:58 H1.16E4 A3.17E4
30:25 H1.90E4 A6.56E4
30:33 H1.69E4 A4.75E4
30:50 H1.11E4 A5.94E4
31:10 H8.82E3 A1.97E4
31:34 H1.76E4 A6.70E4
31:56 H7.55E3 A2.07E4
355.8546 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
29:31 H3.94E4 A1.84E5
29:58 H1.98E4 A5.86E4
30:25 H3.29E4 A1.03E5
30:39 H2.63E4 A8.70E4
30:50 H2.15E4 A8.48E4
31:10 H1.24E4 A3.80E4
31:34 H2.08E4 A9.12E4
31:55 H1.01E4 A2.83E4
365.8978 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
31:33 H1.26E6 A3.92E6
367.8949 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
31:32 H1.98E6 A6.11E6
366.9792 S:13 F:2
29:23 29:29 29:39 29:51 29:57 30:11 30:17 30:41 30:50 31:07 31:13 31:31 31:39 31:51 32:09 32:27
100 %
50
0
29:24 29:36 29:48 30:00 30:12 30:24 30:36 30:48 31:00 31:12 31:24 31:36 31:48 32:00 32:12 32:24
Time
2.7E4
1.4E4
0.0E0
3.9E4
2.0E4
1.3E6
6.3E5
2.0E6
9.9E5
5.9E5
3.0E5

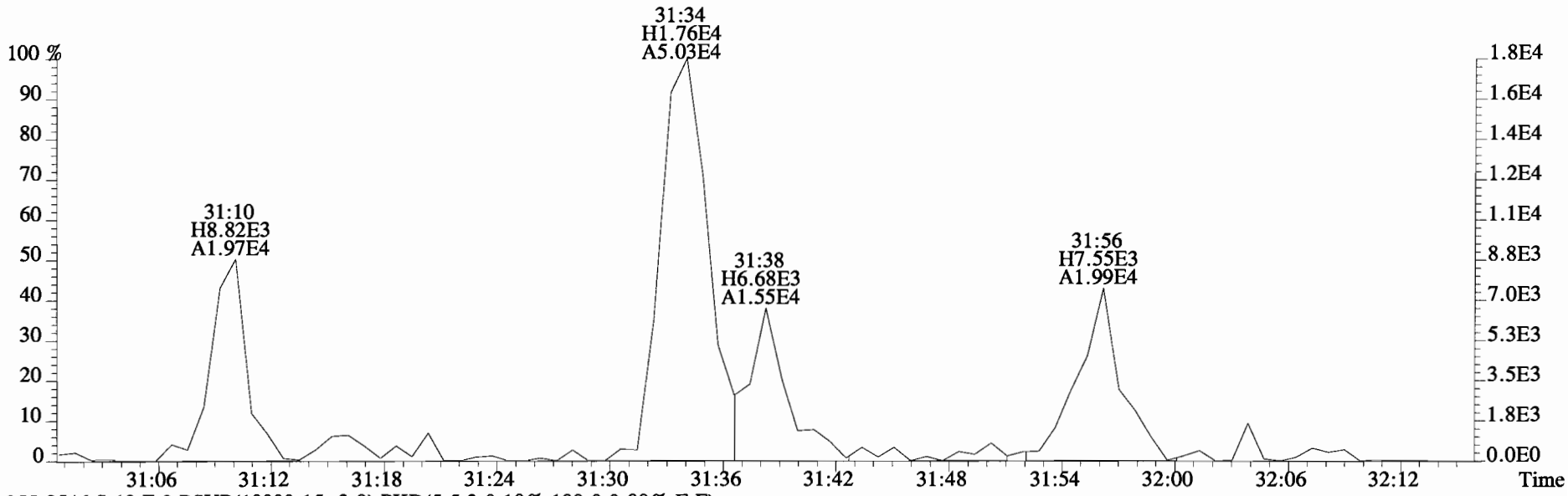
File:141027D1 #1-256 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
353.8576 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



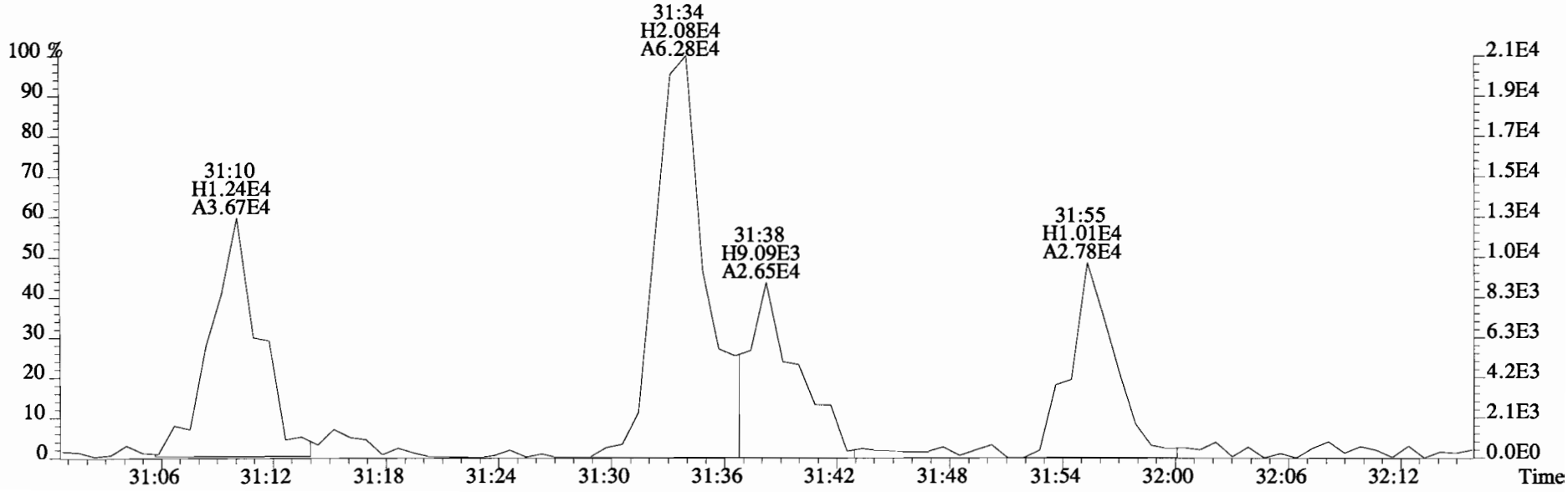
355.8546 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



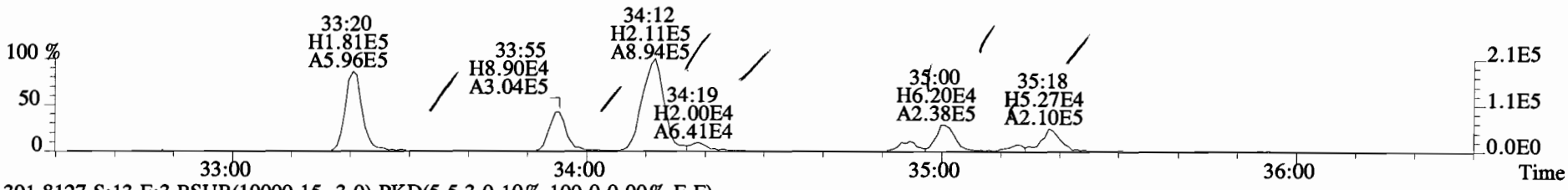
File:141027D1 #1-256 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
353.8576 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



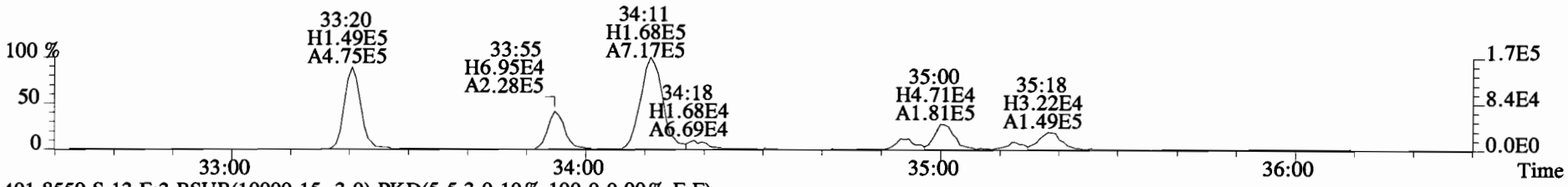
355.8546 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



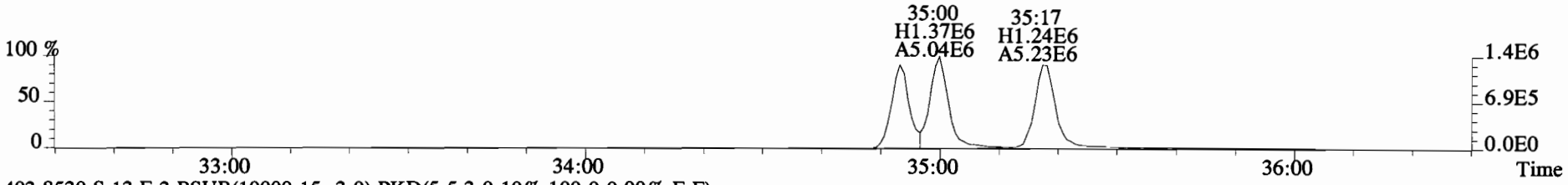
File:141027D1 #1-385 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
389.8156 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



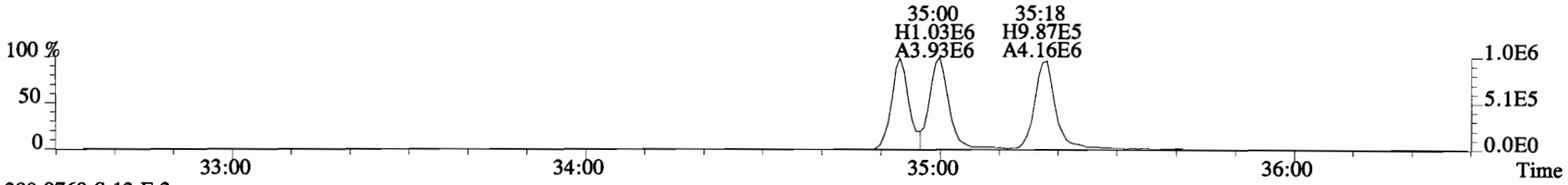
391.8127 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



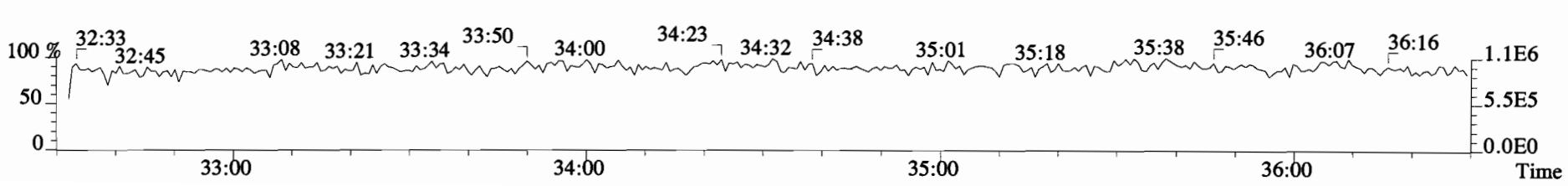
401.8559 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



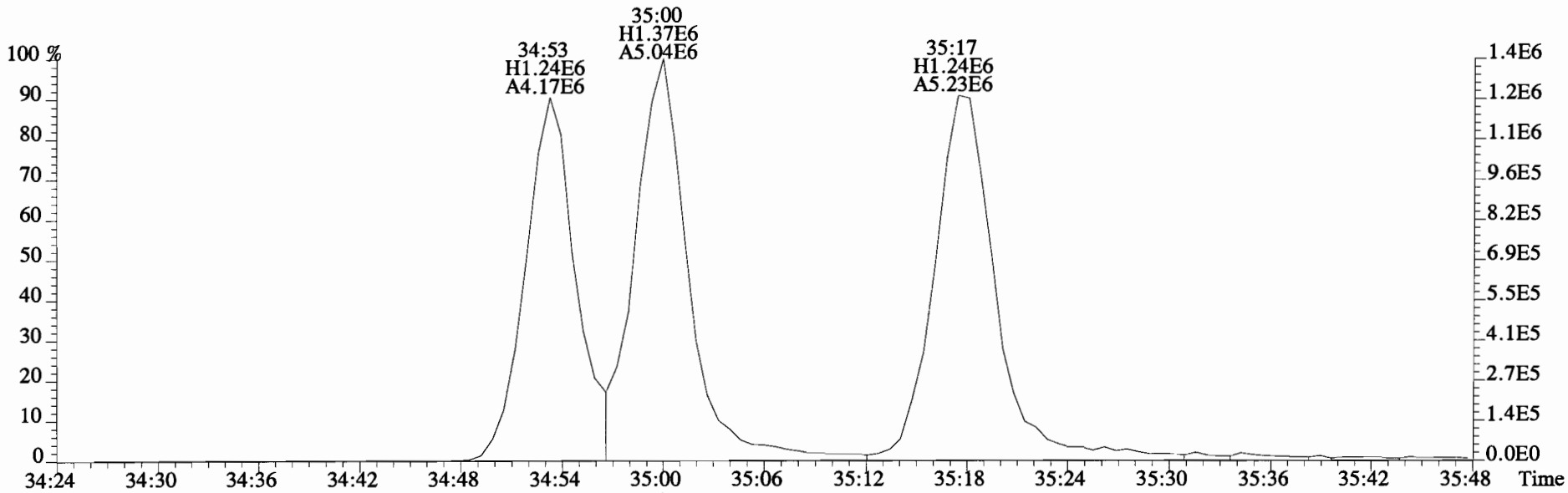
403.8530 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



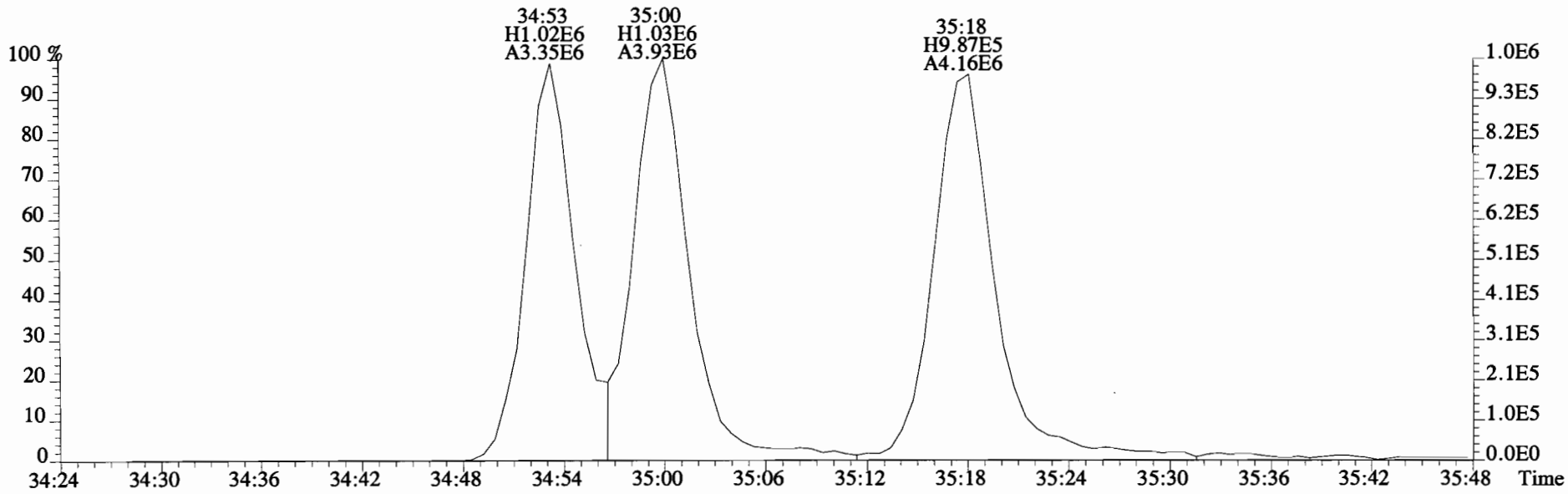
380.9760 S:13 F:3



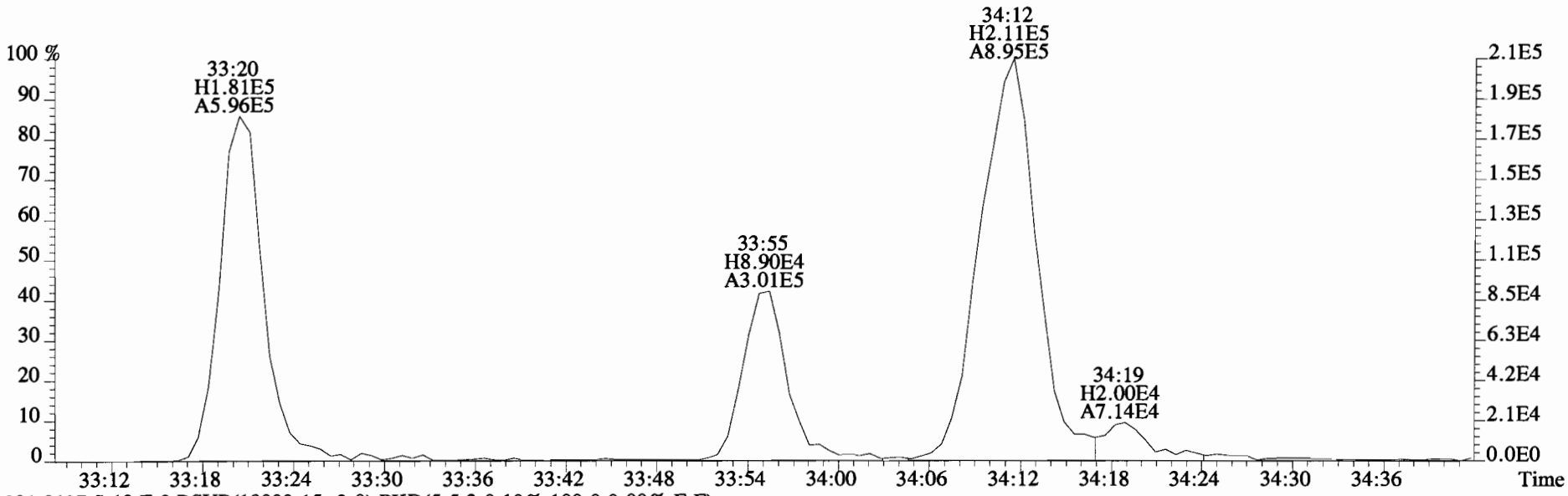
File:141027D1 #1-385 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
401.8559 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



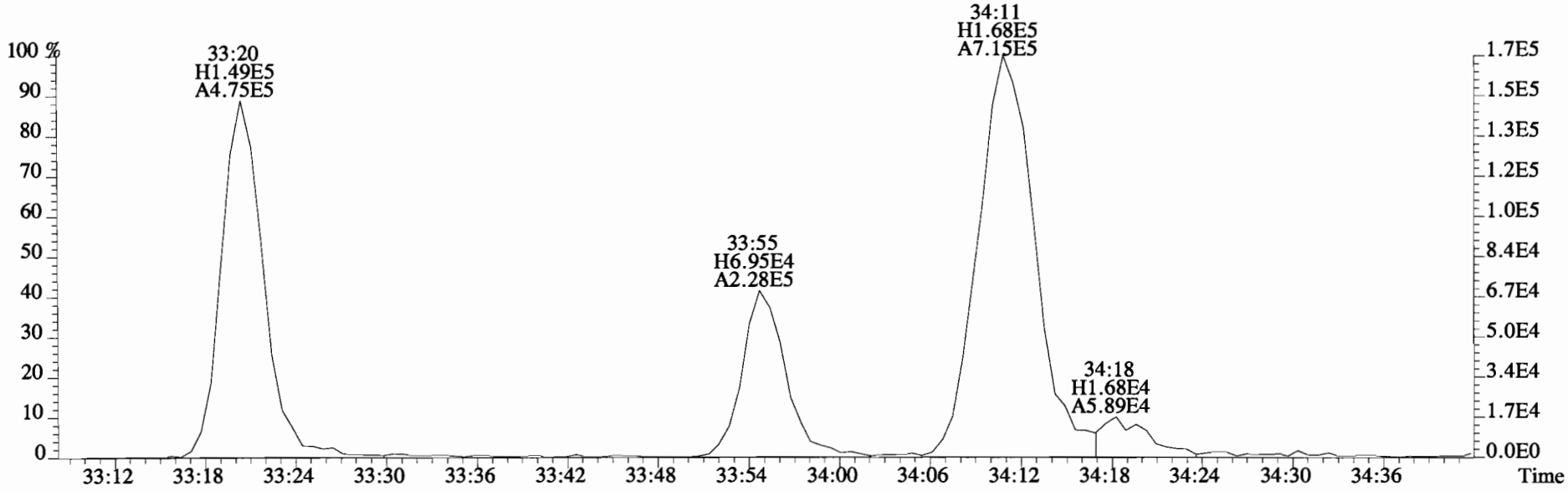
403.8530 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



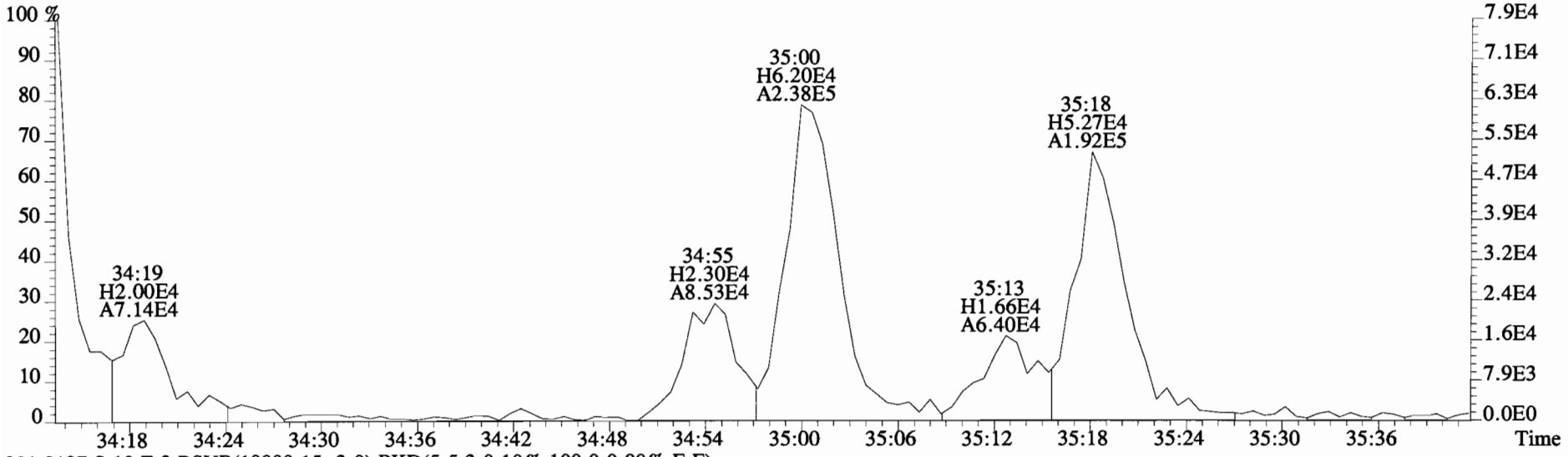
File:141027D1 #1-385 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
389.8156 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



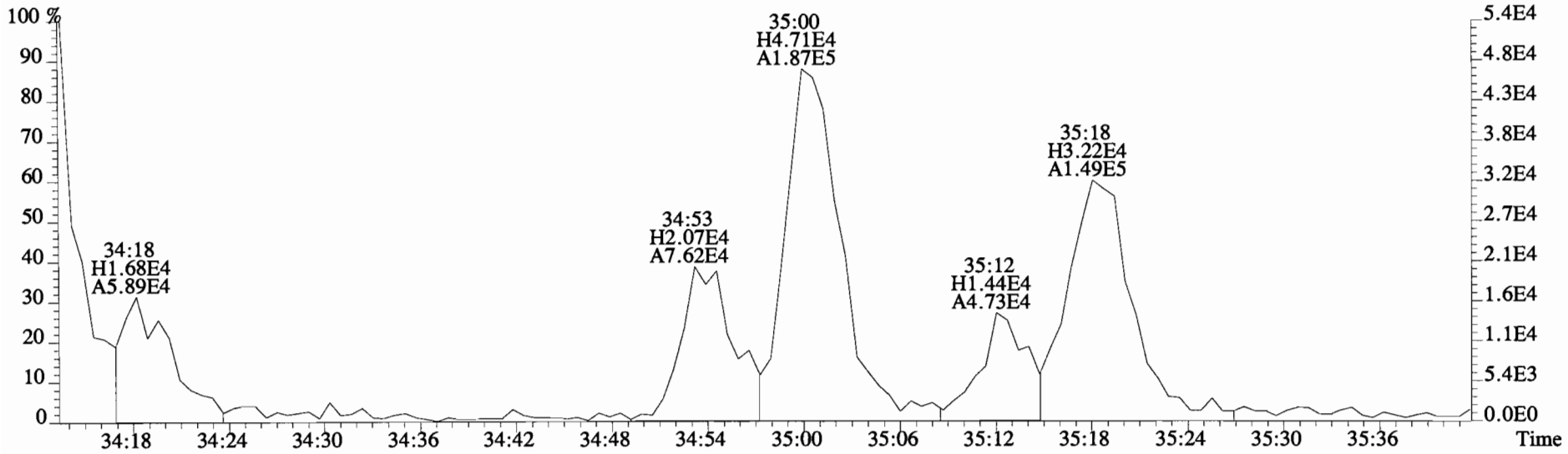
391.8127 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



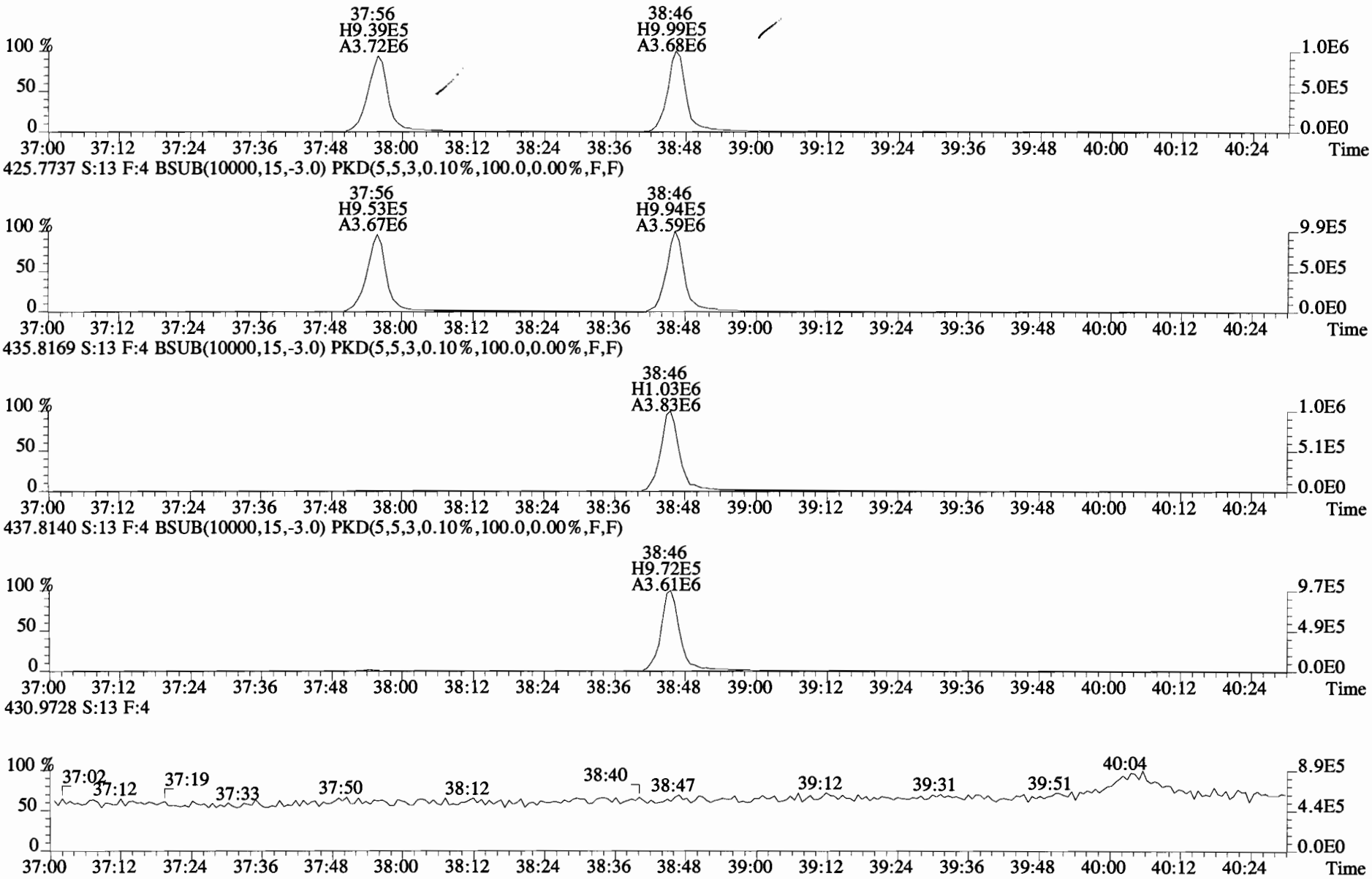
File:141027D1 #1-385 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
389.8156 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



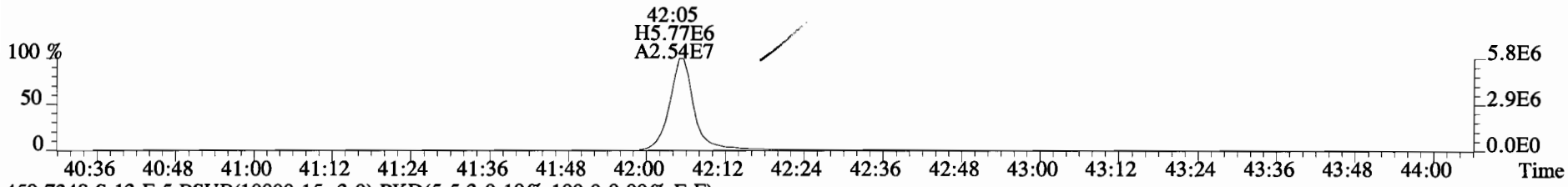
391.8127 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



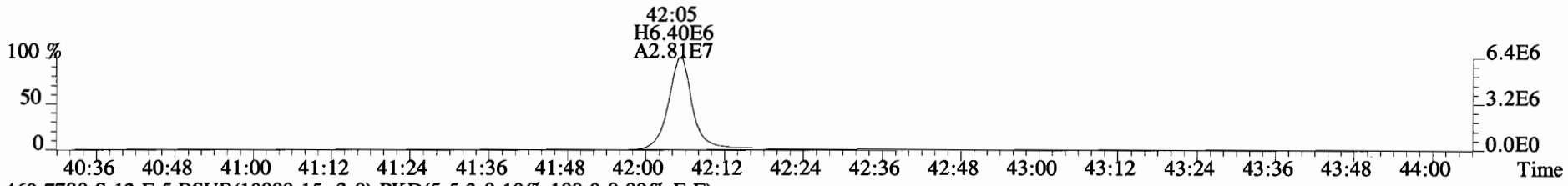
File:141027D1 #1-326 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5



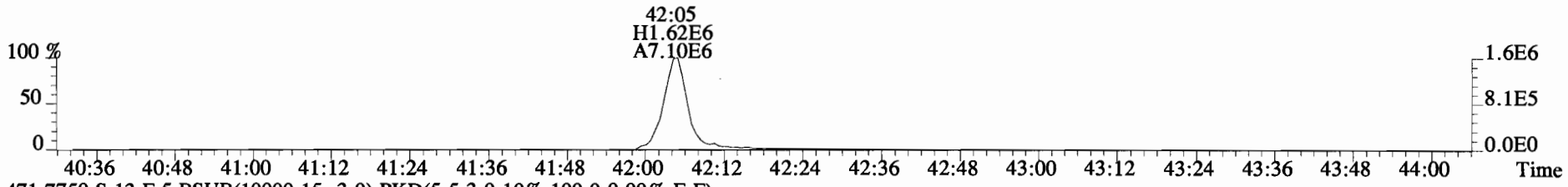
File:141027D1 #1-388 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
457.7377 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



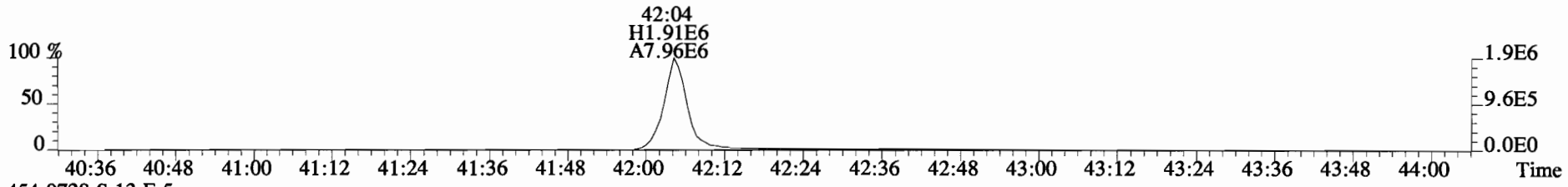
459.7348 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



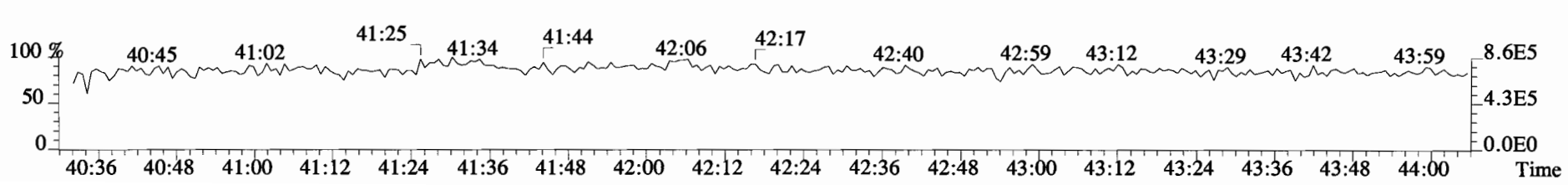
469.7780 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



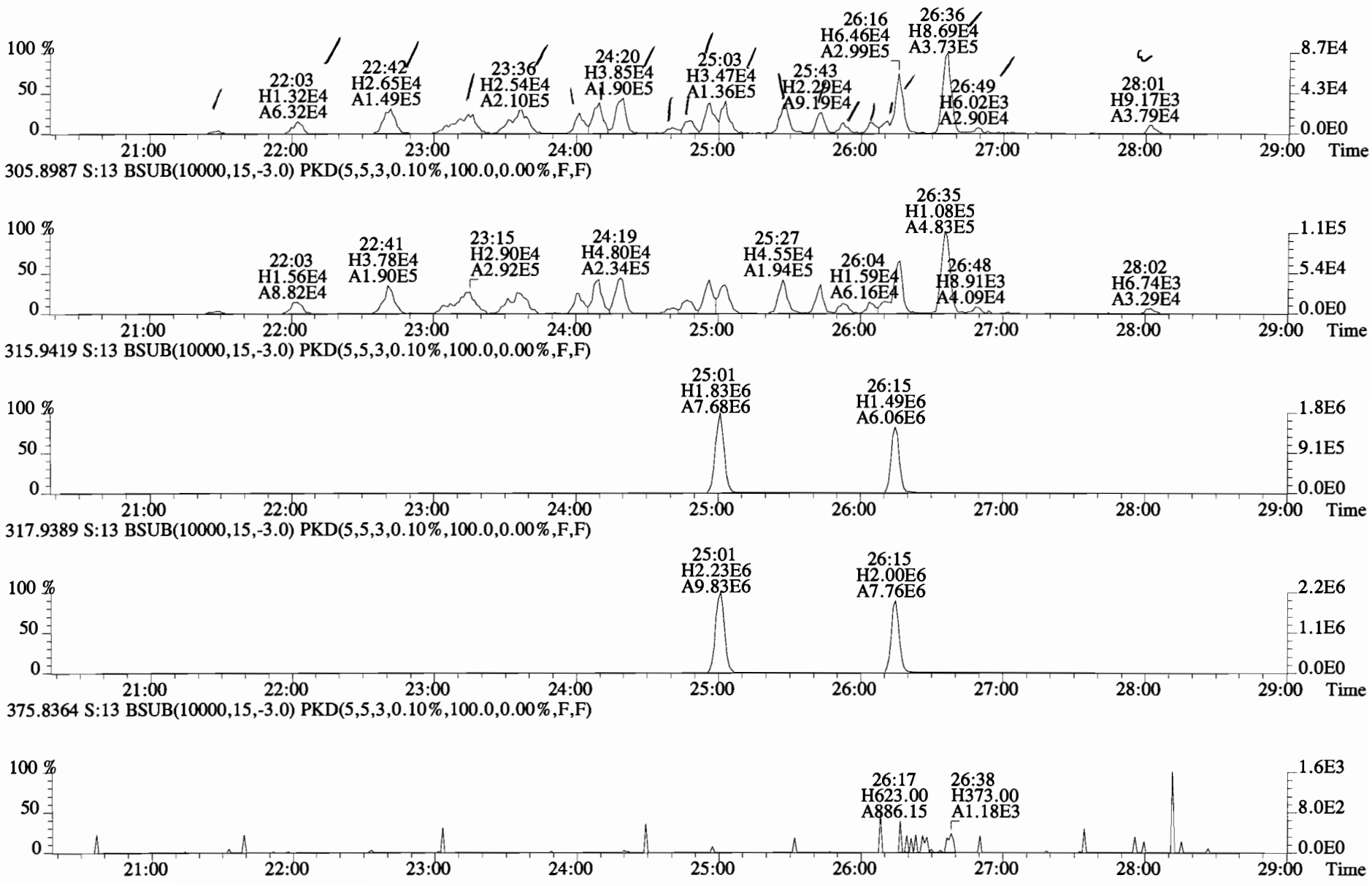
471.7750 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



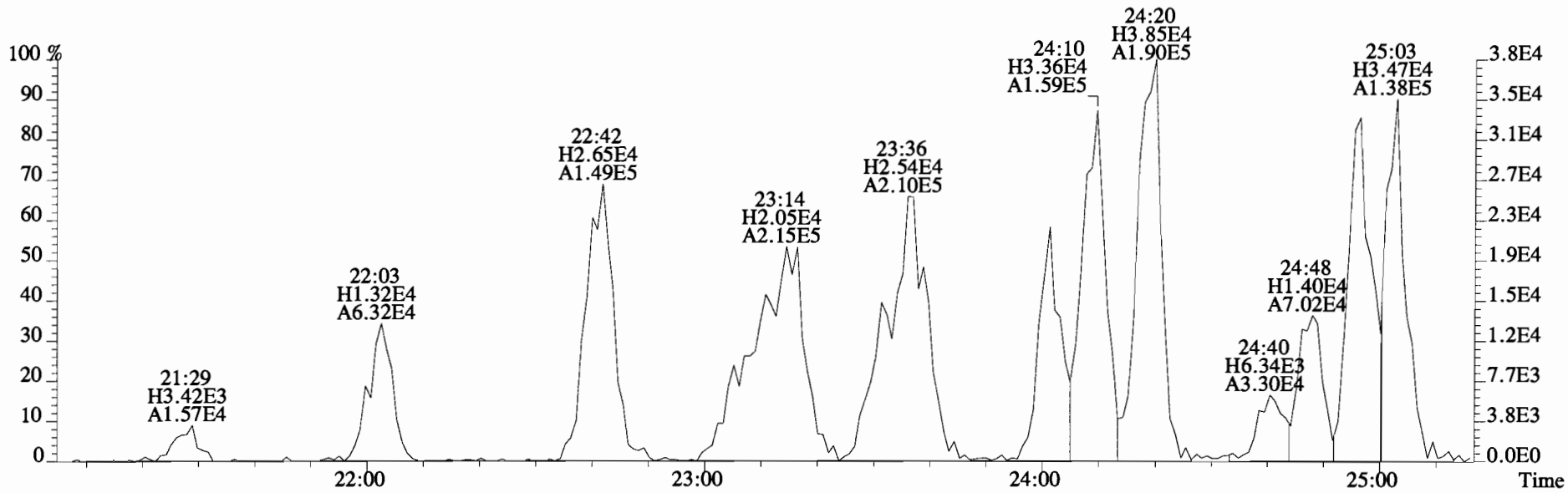
454.9728 S:13 F:5



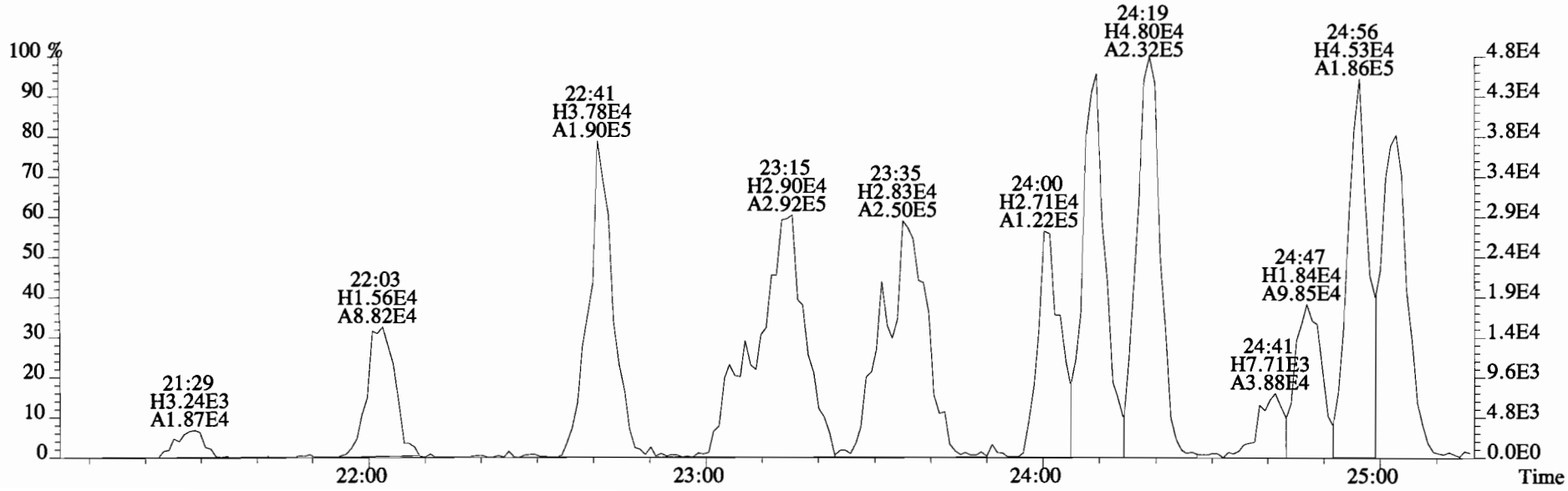
File:141027D1 #1-552 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5



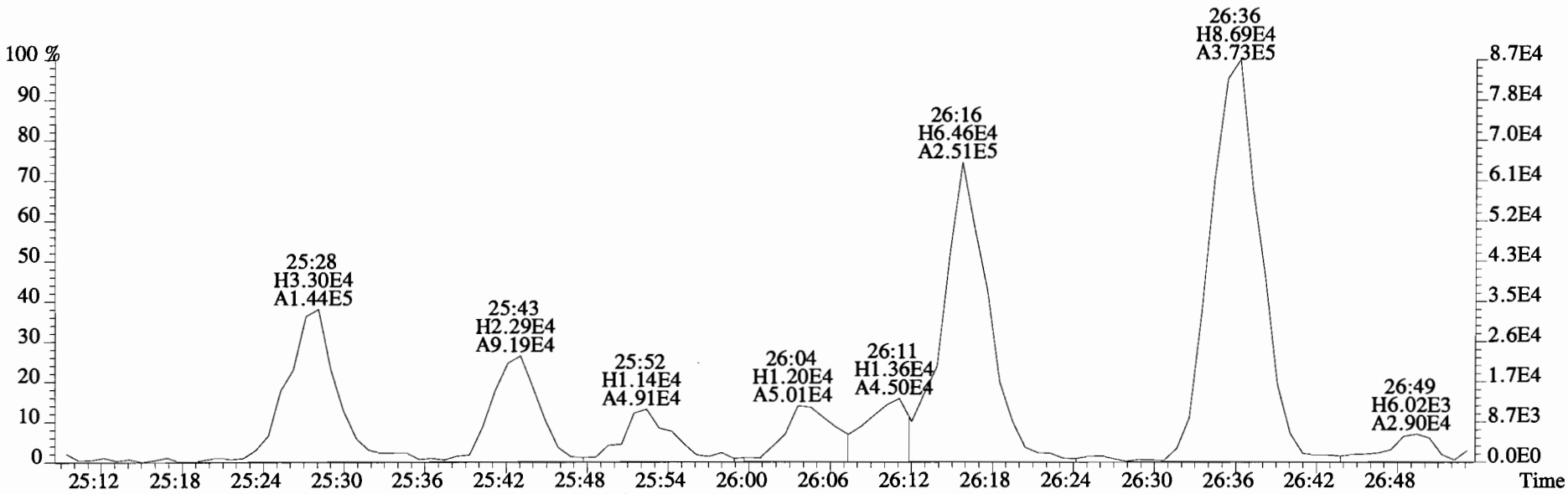
File:141027D1 #1-552 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
303.9016 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



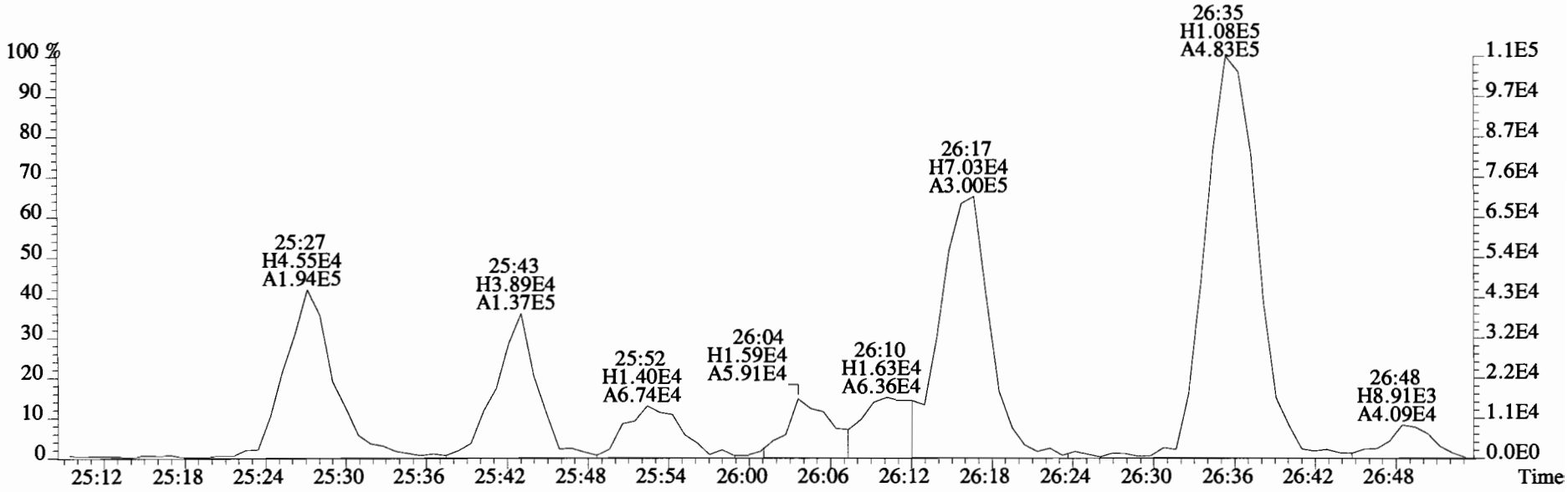
305.8987 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



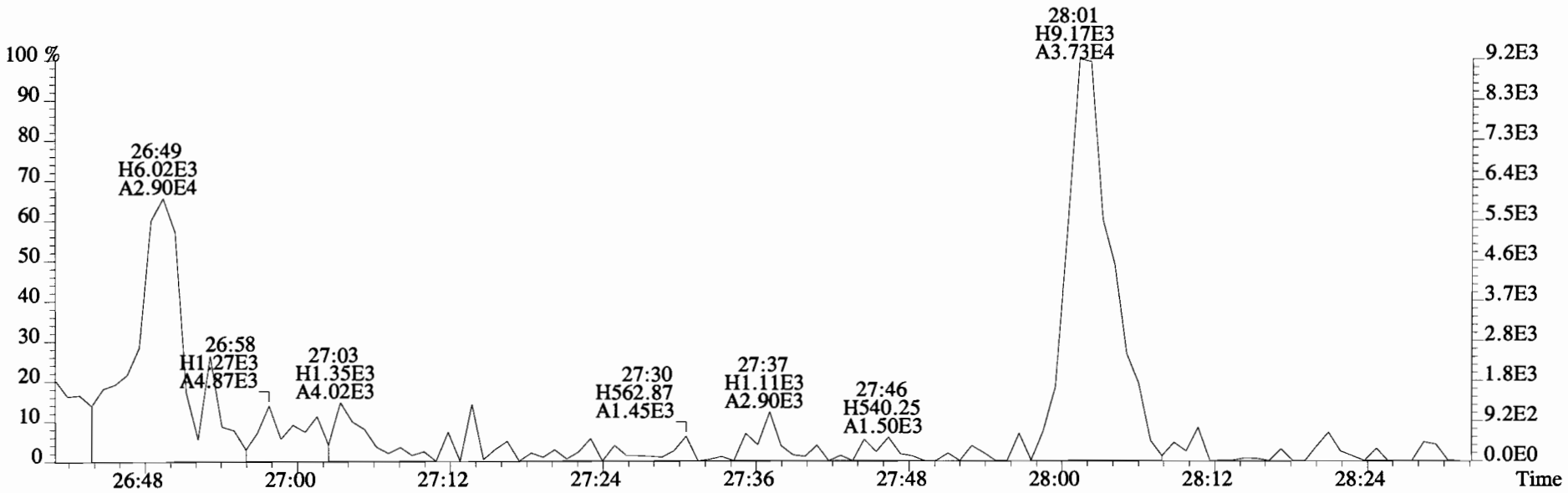
File:141027D1 #1-552 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
303.9016 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



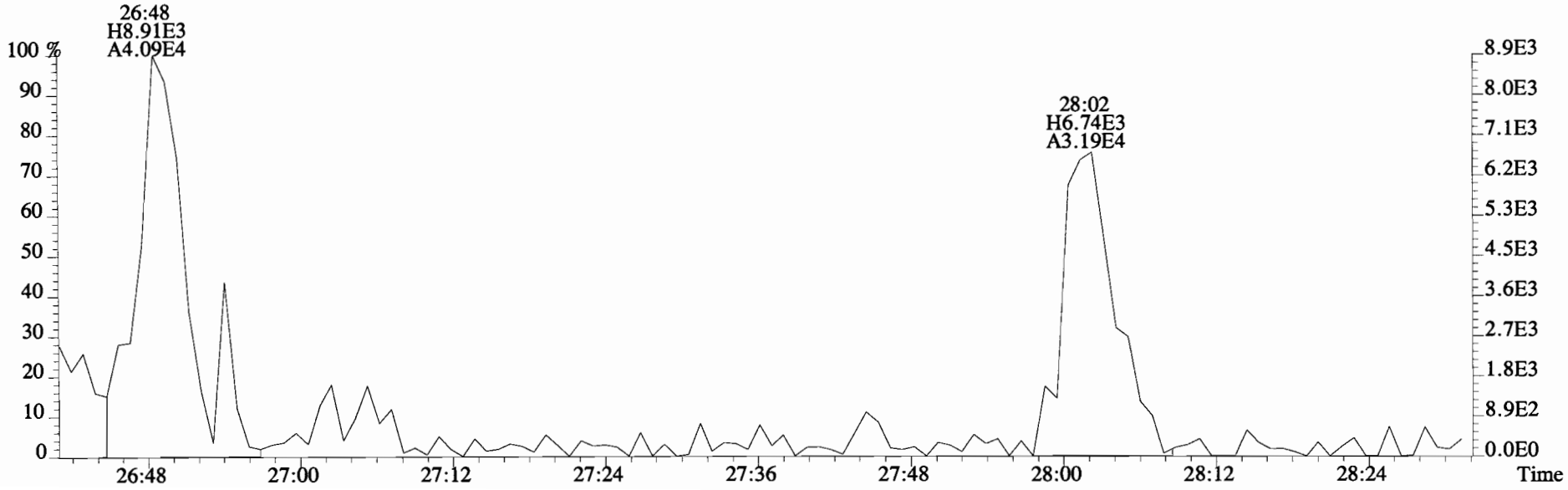
305.8987 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



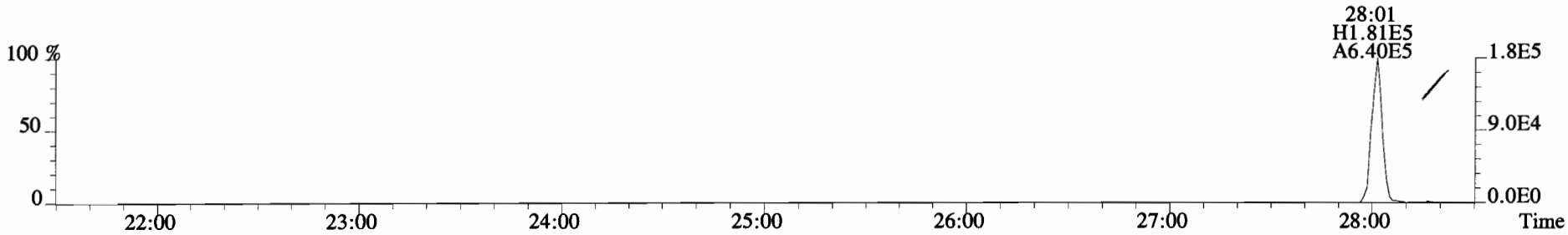
File:141027D1 #1-552 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
303.9016 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



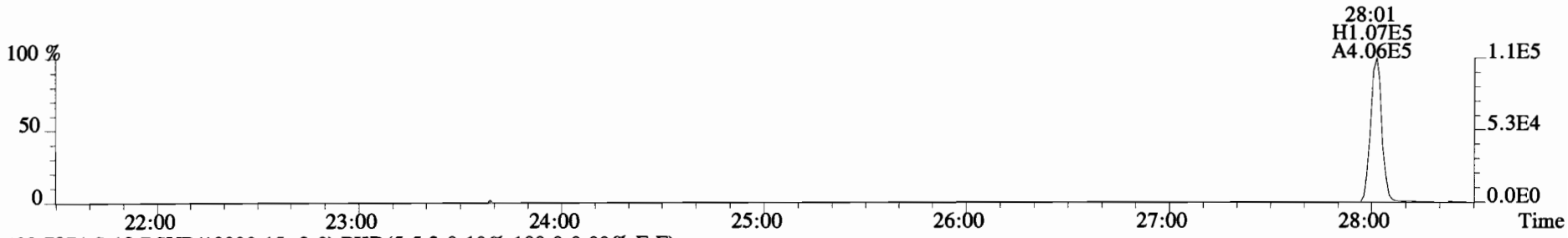
305.8987 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



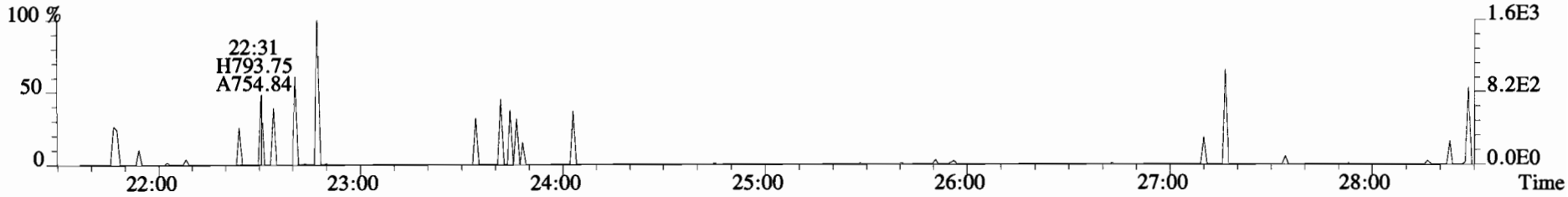
File:141027D1 #1-552 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
339.8597 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



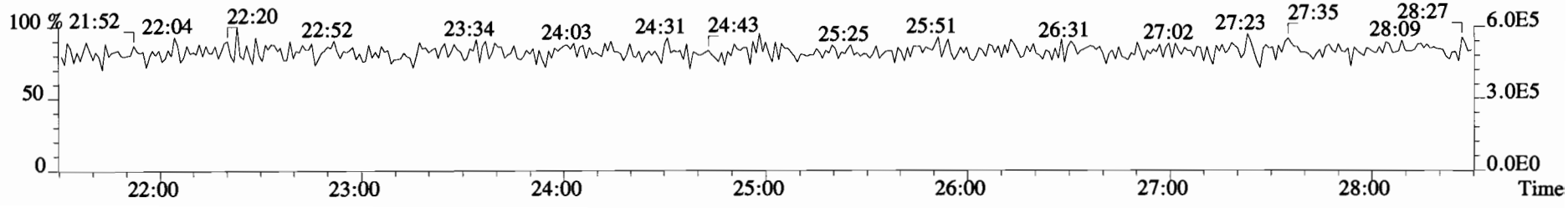
341.8568 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



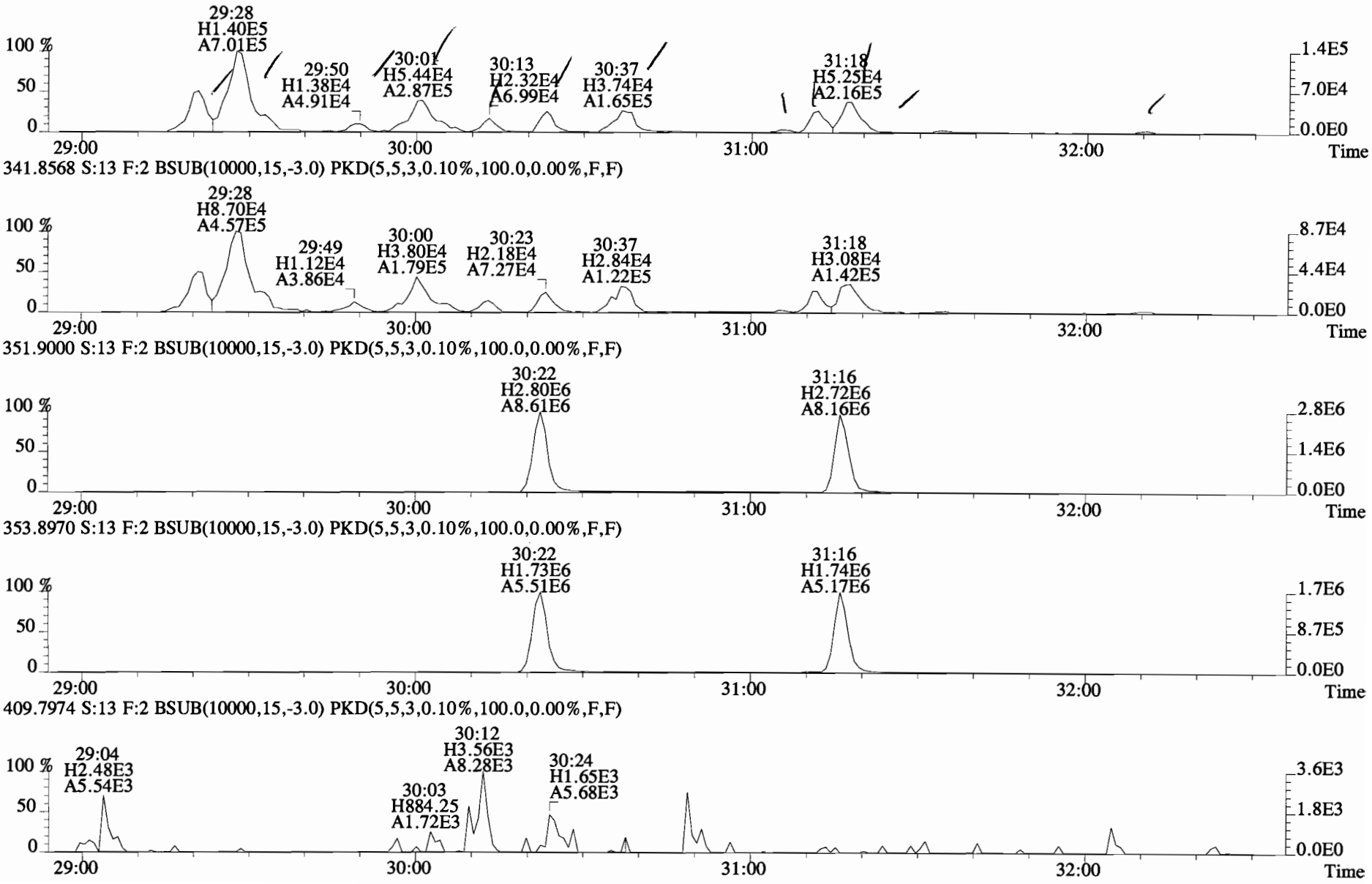
409.7974 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

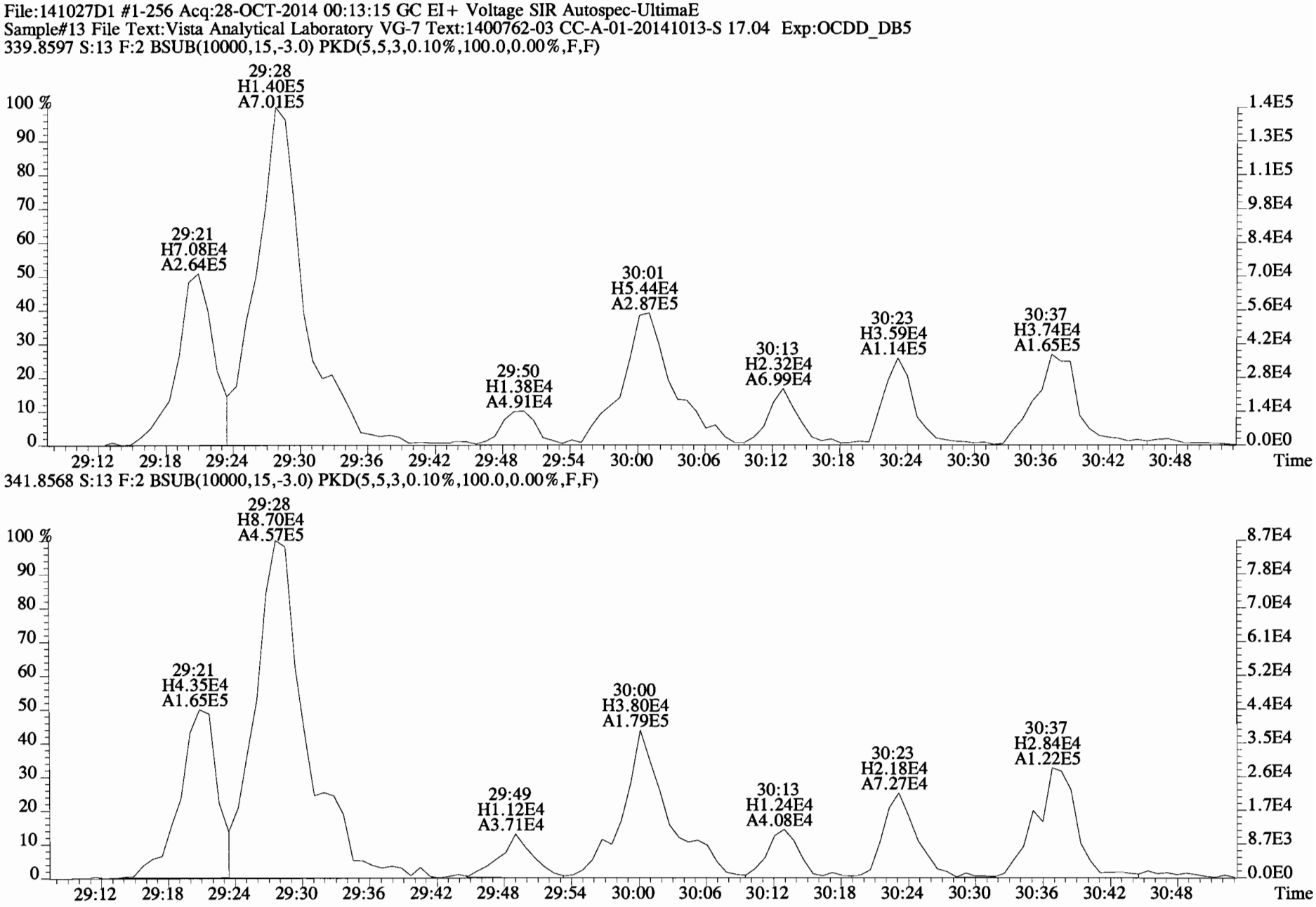


316.9824 S:13

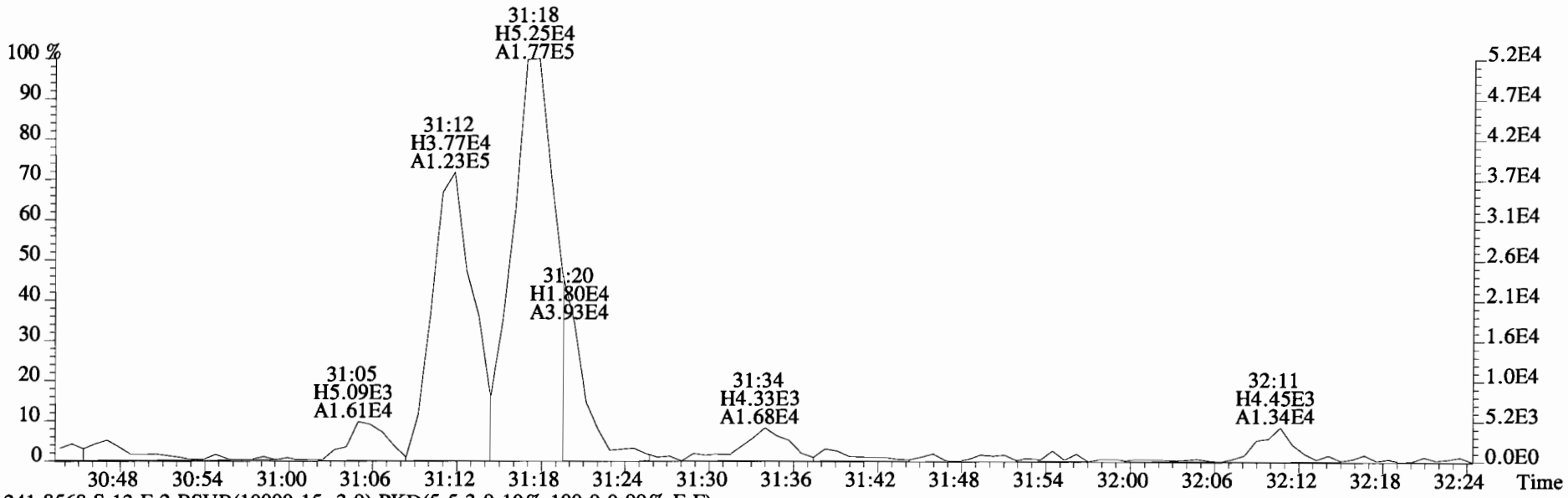


File:141027D1 #1-256 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5

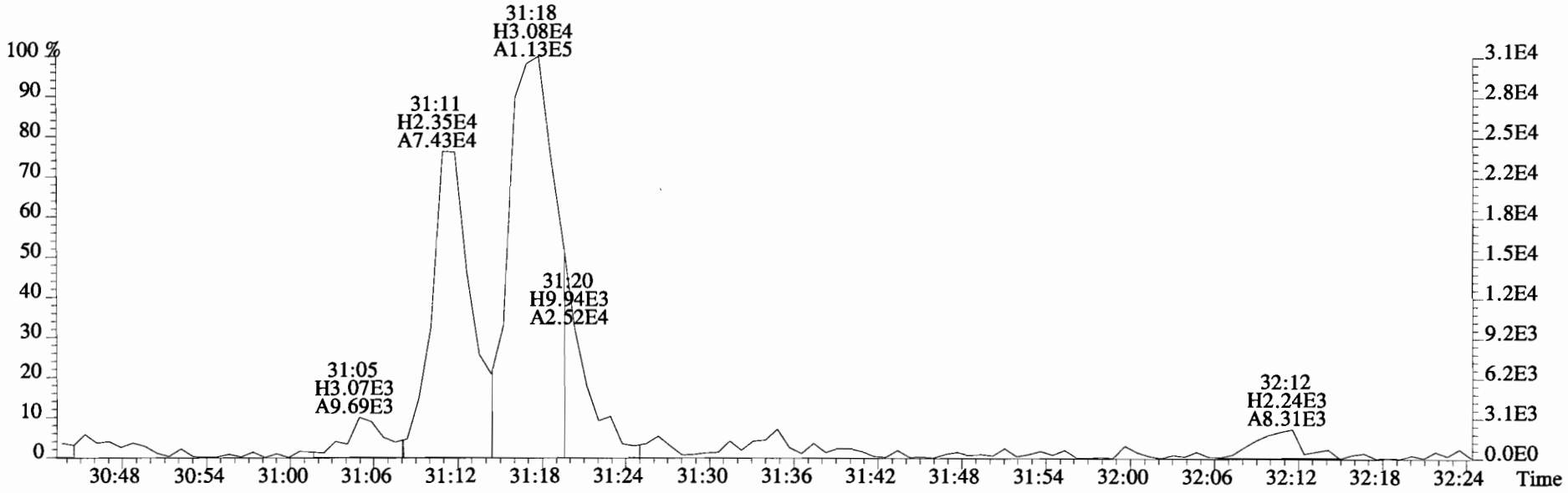



File:141027D1 #1-256 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
339.8597 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
29:28 H1.40E5 A7.01E5
29:21 H7.08E4 A2.64E5
29:50 H1.38E4 A4.91E4
30:01 H5.44E4 A2.87E5
30:13 H2.32E4 A6.99E4
30:23 H3.59E4 A1.14E5
30:37 H3.74E4 A1.65E5
100 %
90
80
70
60
50
40
30
20
10
0
1.4E5
1.3E5
1.1E5
9.8E4
8.4E4
7.0E4
5.6E4
4.2E4
2.8E4
1.4E4
0.0E0
29:12 29:18 29:24 29:30 29:36 29:42 29:48 29:54 30:00 30:06 30:12 30:18 30:24 30:30 30:36 30:42 30:48
Time
341.8568 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
29:28 H8.70E4 A4.57E5
29:21 H4.35E4 A1.65E5
29:49 H1.12E4 A3.71E4
30:00 H3.80E4 A1.79E5
30:13 H1.24E4 A4.08E4
30:23 H2.18E4 A7.27E4
30:37 H2.84E4 A1.22E5
100 %
90
80
70
60
50
40
30
20
10
0
8.7E4
7.8E4
7.0E4
6.1E4
5.2E4
4.4E4
3.5E4
2.6E4
1.7E4
8.7E3
0.0E0
29:12 29:18 29:24 29:30 29:36 29:42 29:48 29:54 30:00 30:06 30:12 30:18 30:24 30:30 30:36 30:42 30:48
Time

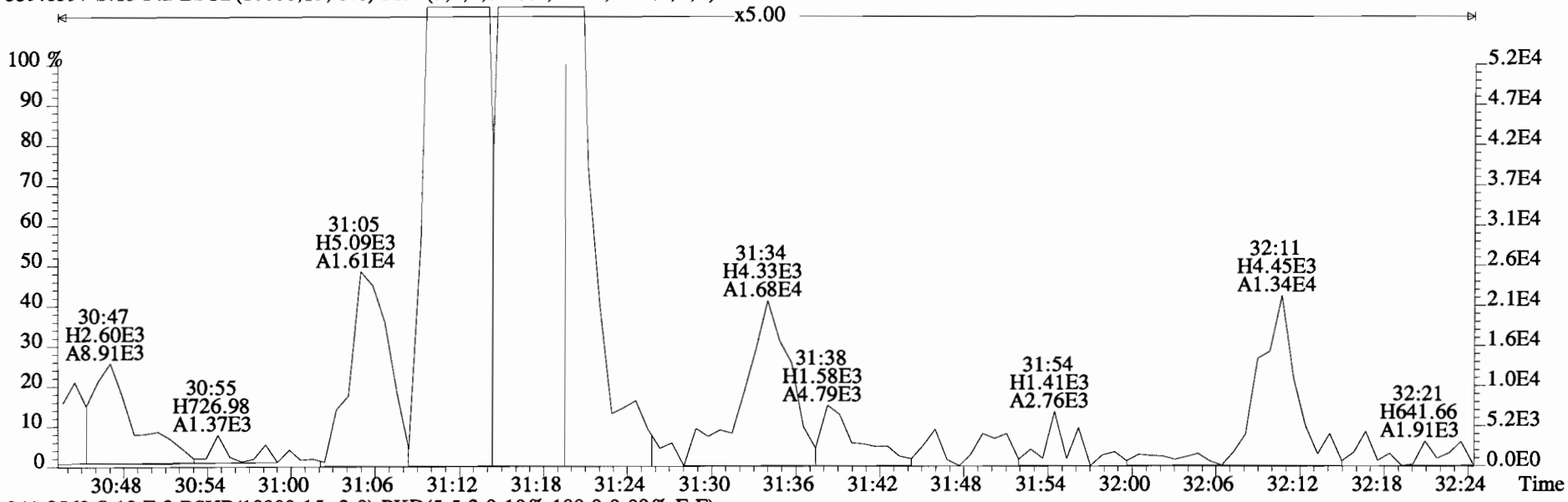
File:141027D1 #1-256 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
339.8597 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



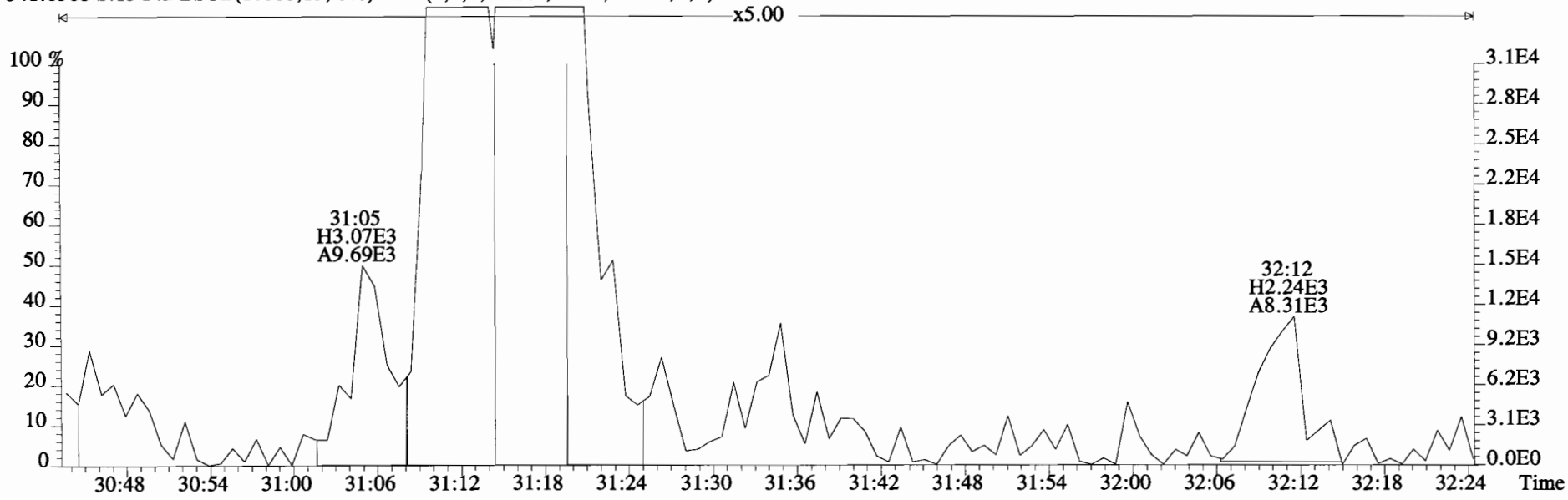
341.8568 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:141027D1 #1-256 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
339.8597 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

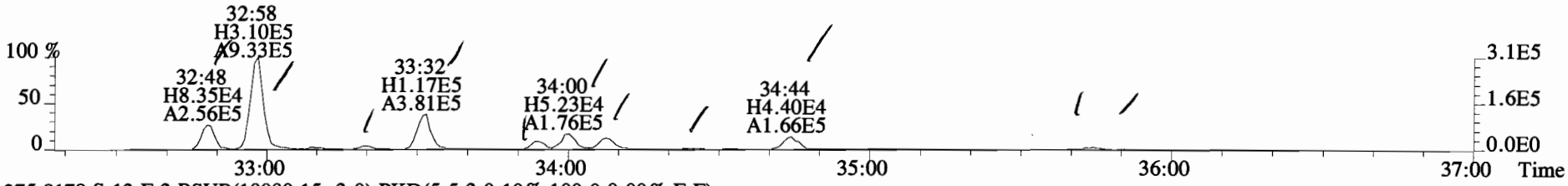


341.8568 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

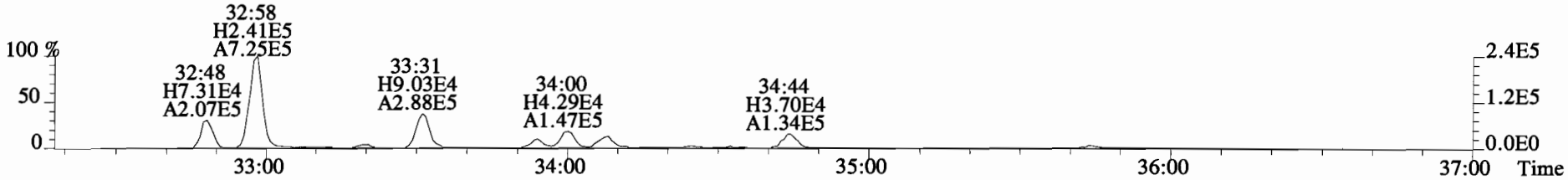


File:141027D1 #1-385 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5

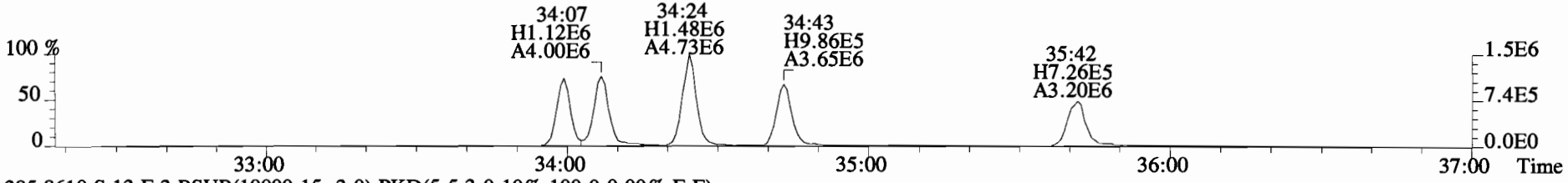
373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



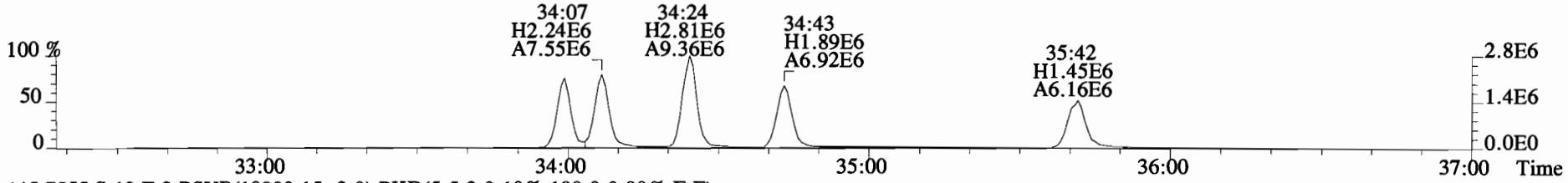
375.8178 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



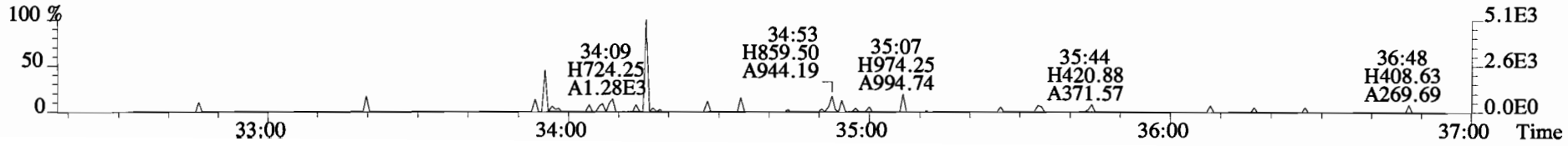
383.8639 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



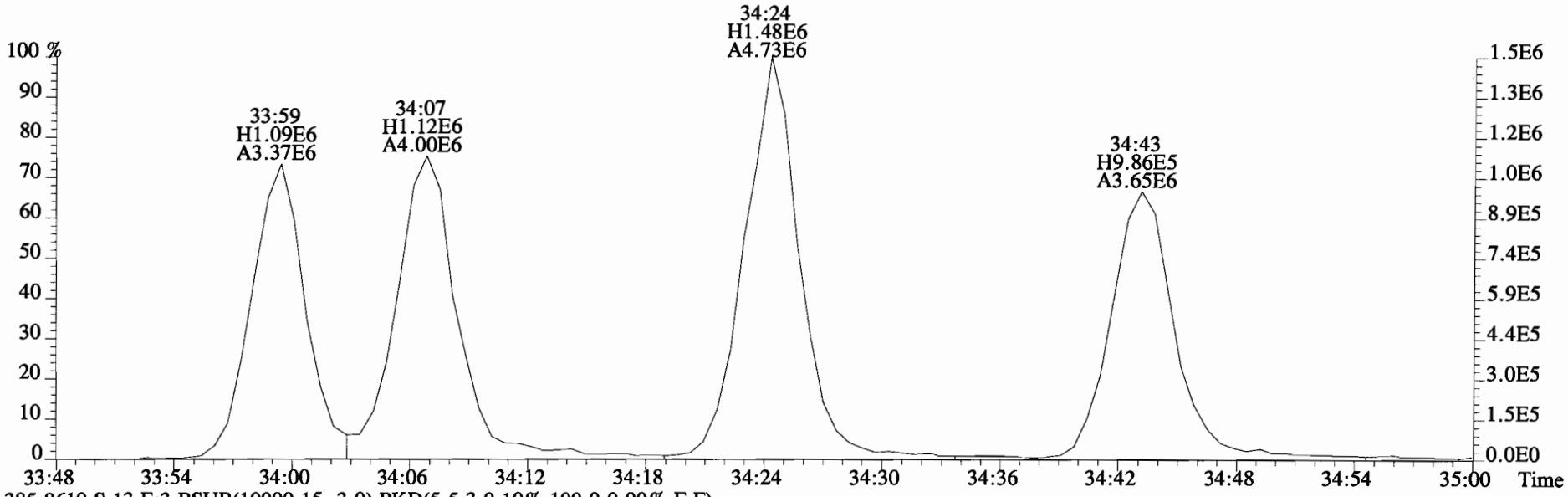
385.8610 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



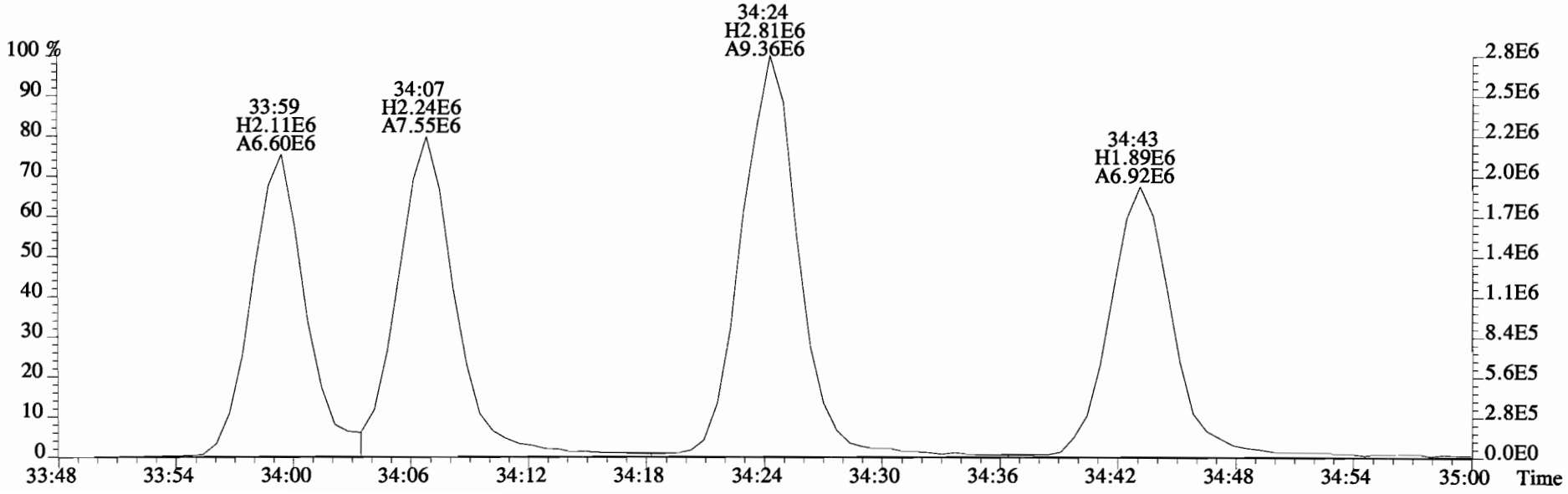
445.7555 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



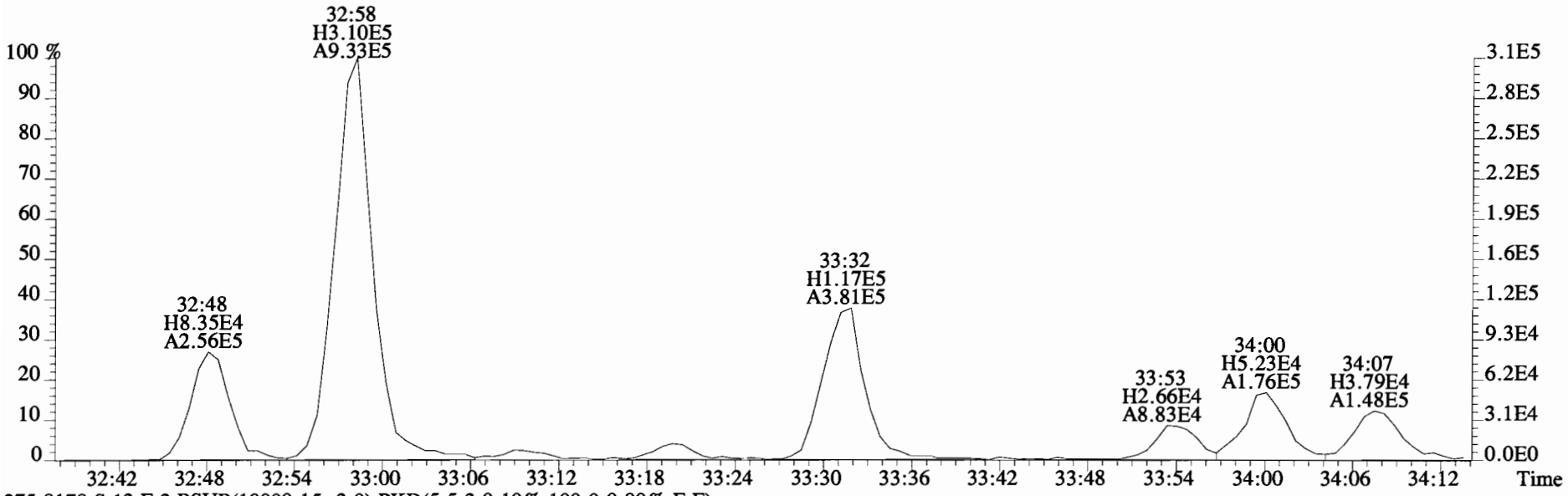
File:141027D1 #1-385 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
383.8639 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



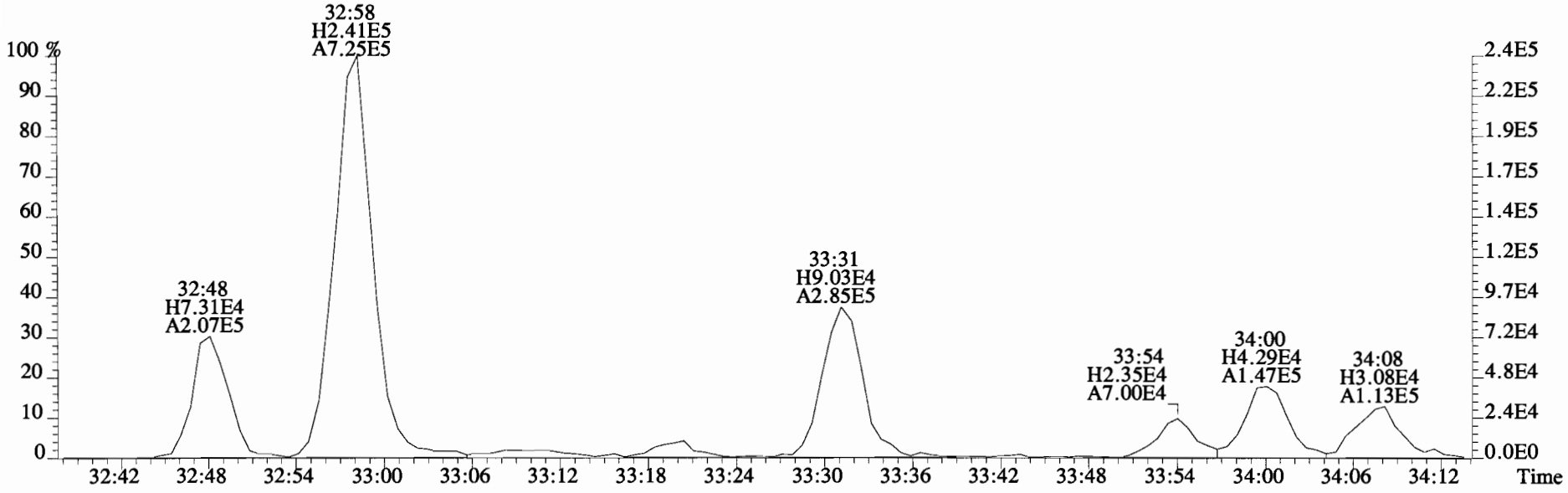
385.8610 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

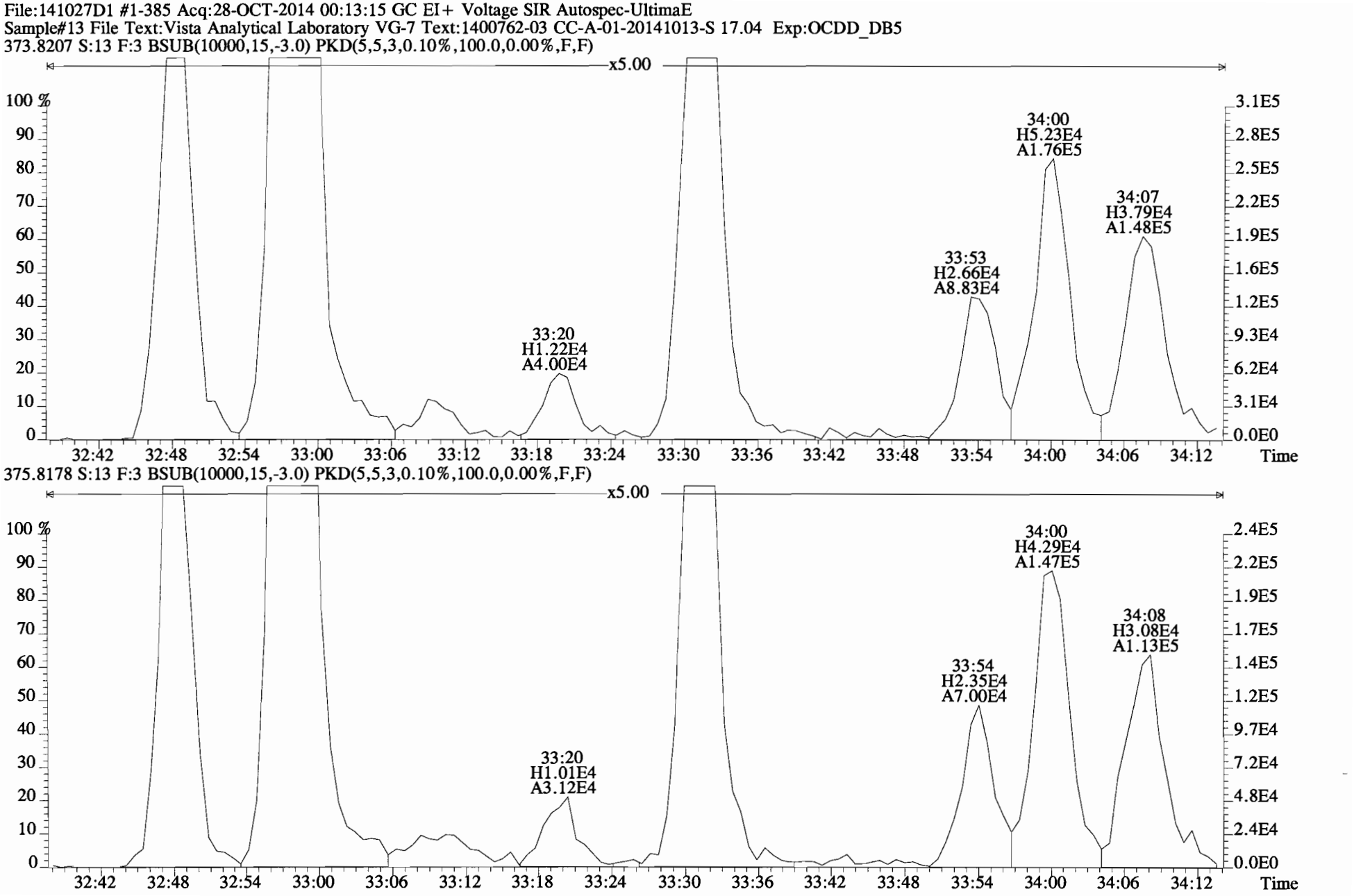


File:141027D1 #1-385 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

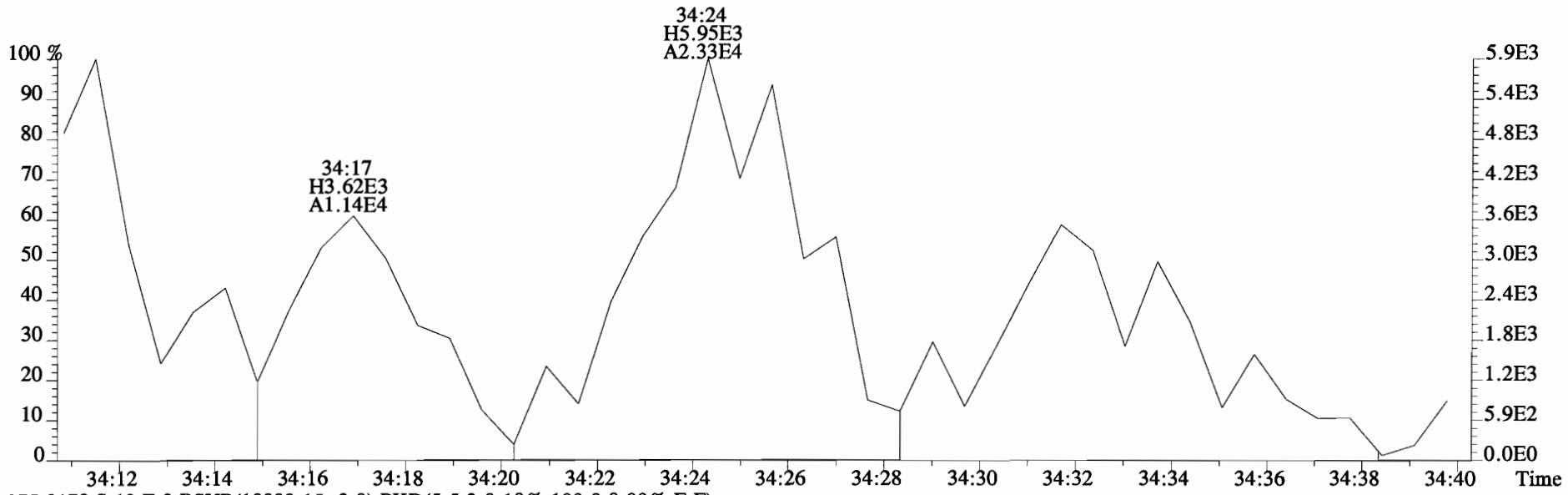


375.8178 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

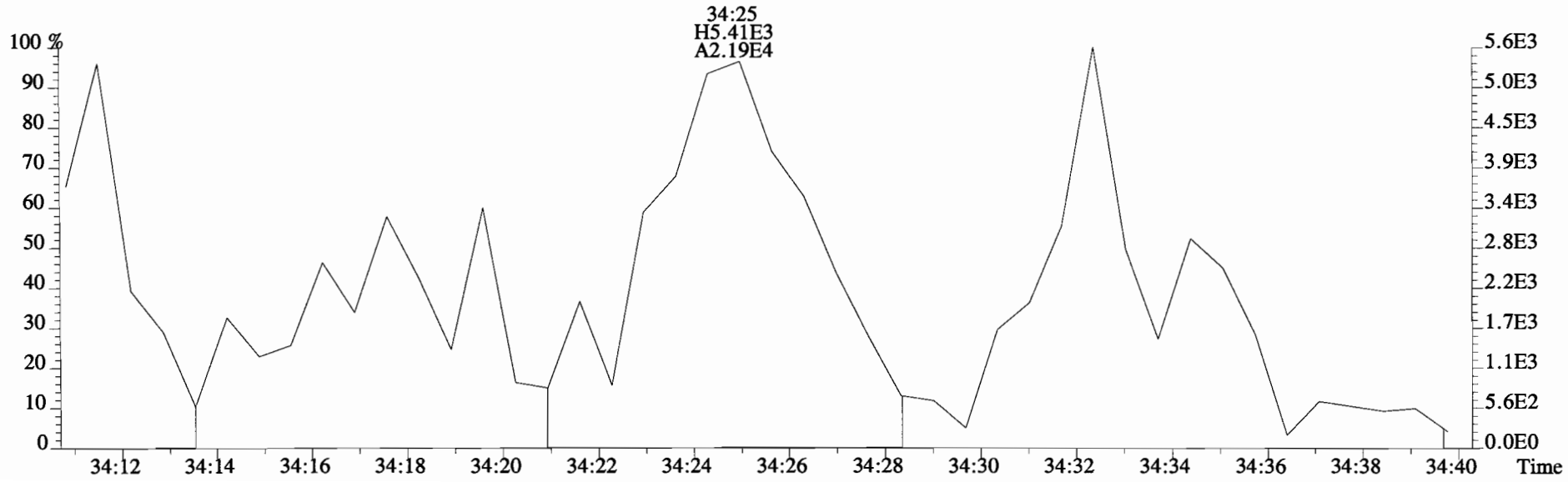



File:141027D1 #1-385 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
x5.00
33:20 H1.22E4 A4.00E4
33:53 H2.66E4 A8.83E4
34:00 H5.23E4 A1.76E5
34:07 H3.79E4 A1.48E5
375.8178 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
x5.00
33:20 H1.01E4 A3.12E4
33:54 H2.35E4 A7.00E4
34:00 H4.29E4 A1.47E5
34:08 H3.08E4 A1.13E5
Time

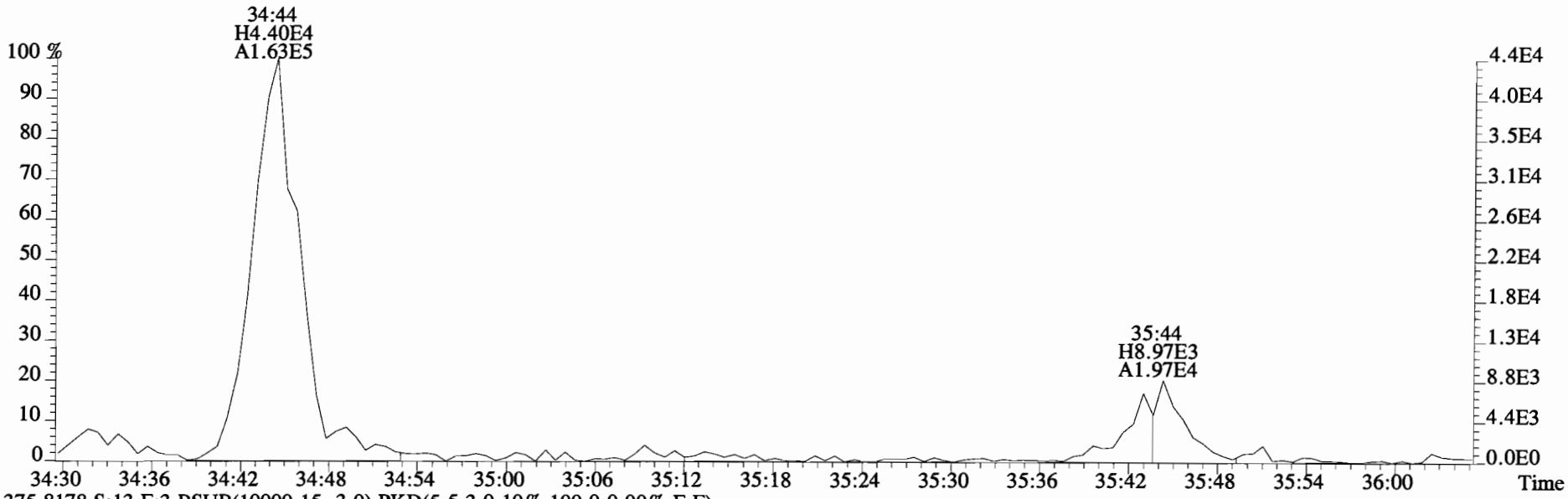
File:141027D1 #1-385 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



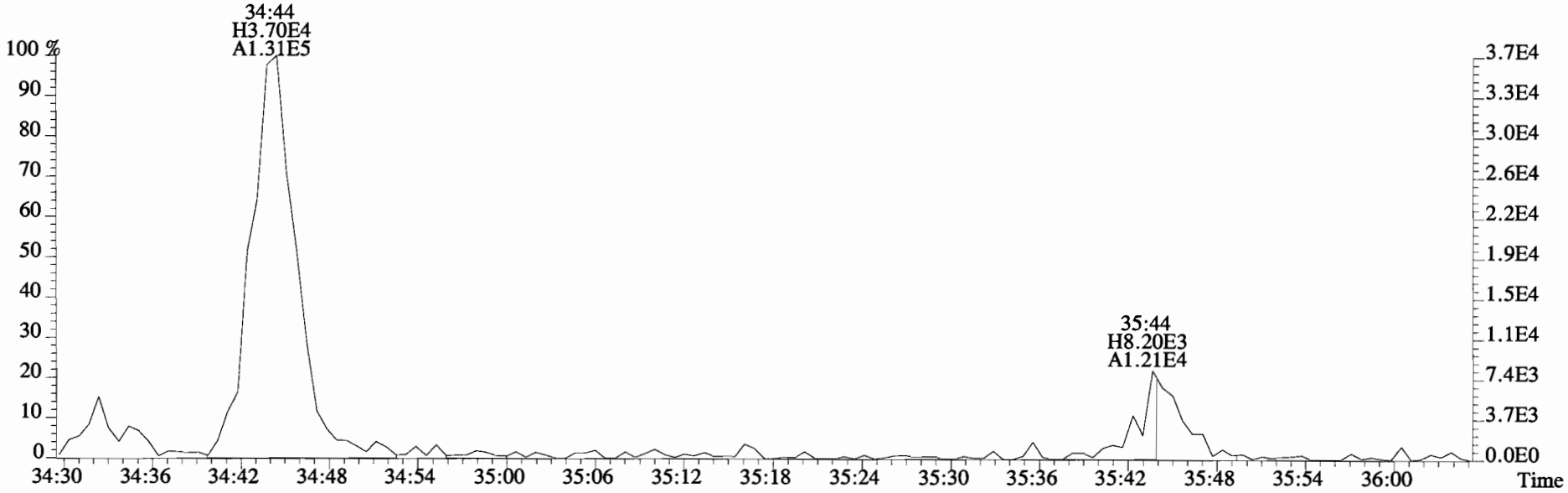
375.8178 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



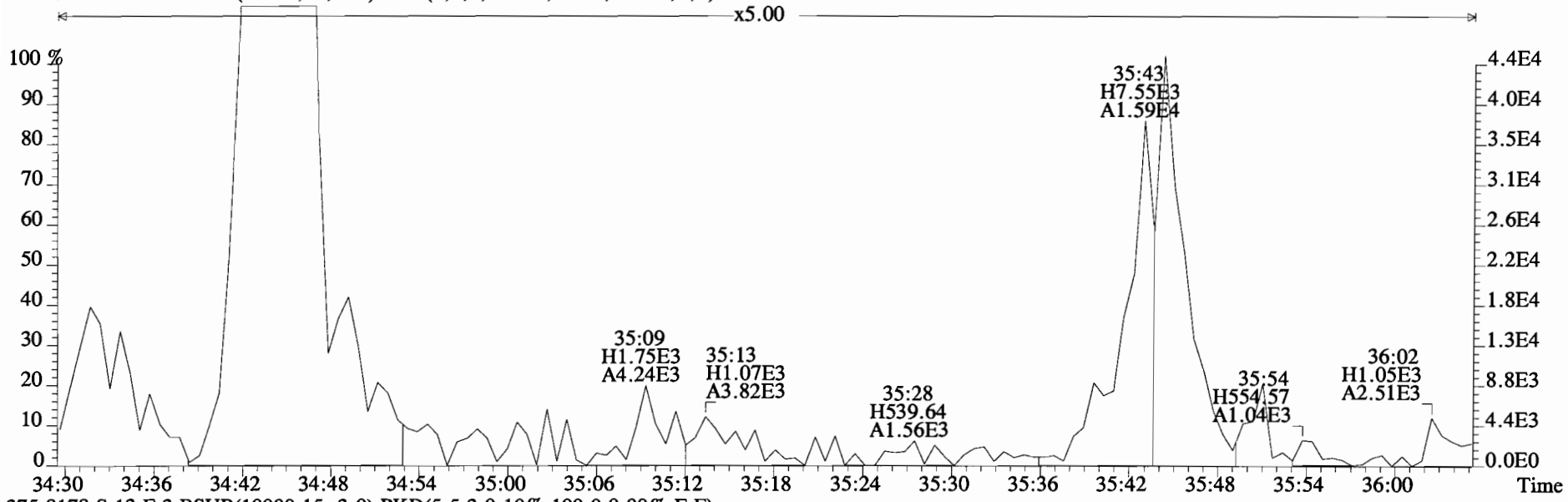
File:141027D1 #1-385 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



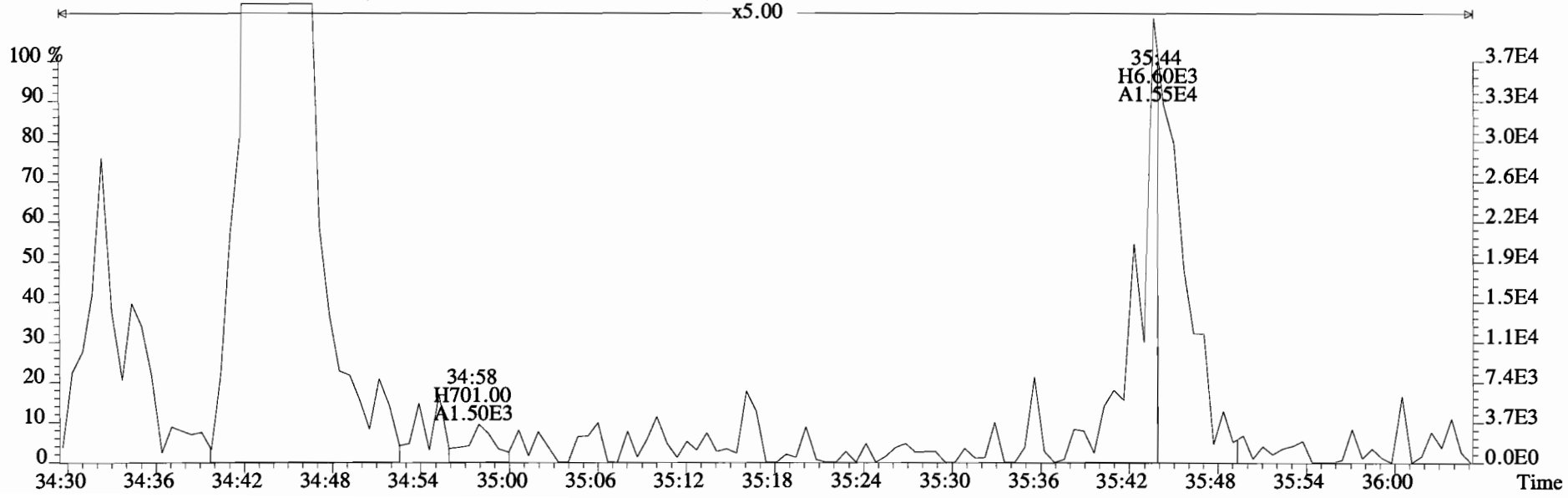
375.8178 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



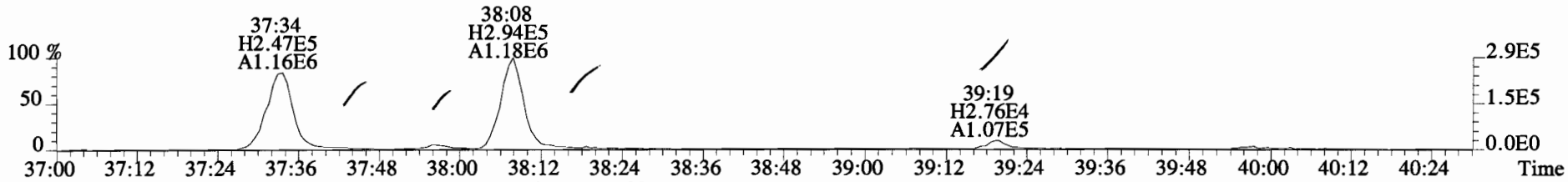
File:141027D1 #1-385 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



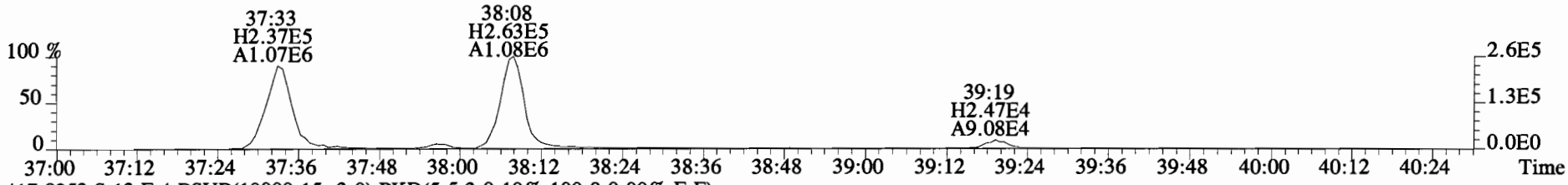
375.8178 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



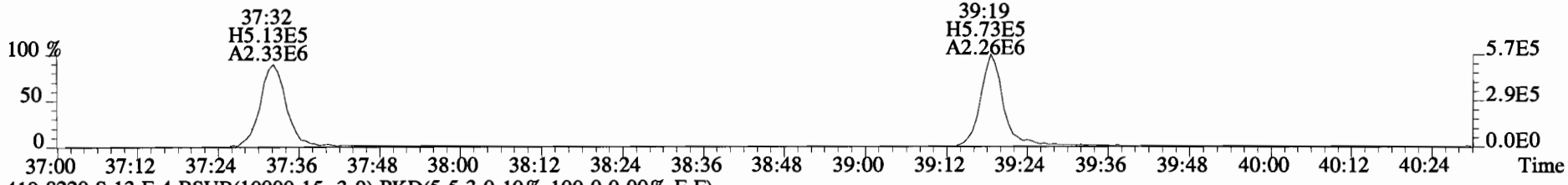
File:141027D1 #1-326 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
407.7818 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



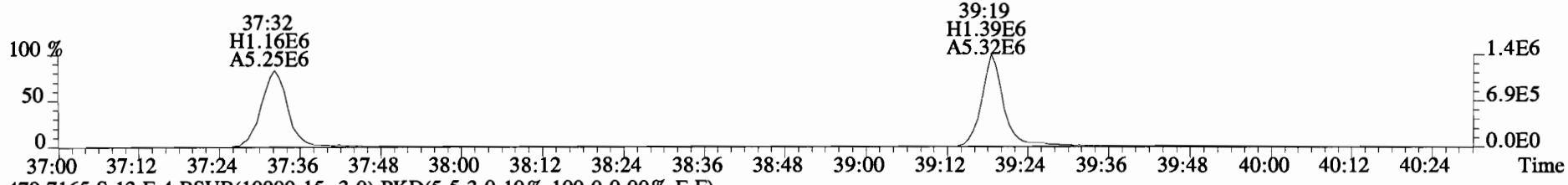
409.7788 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



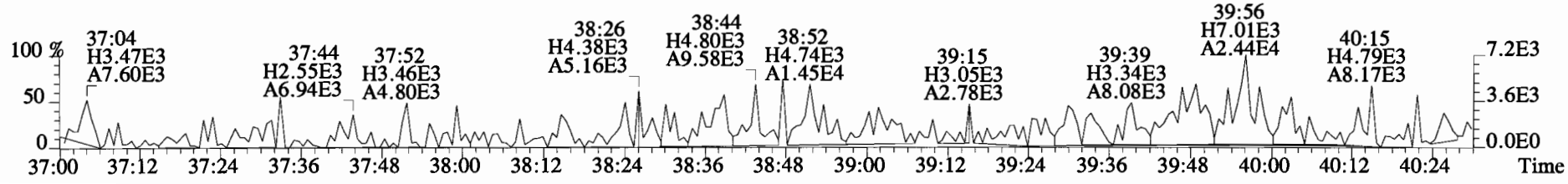
417.8253 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



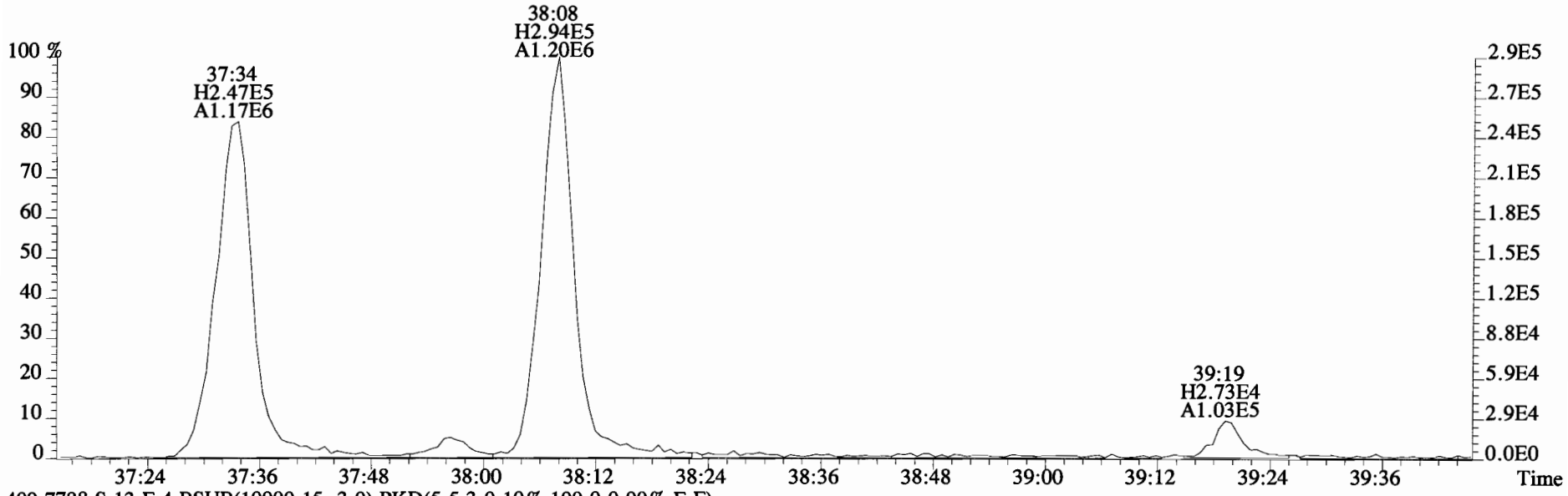
419.8220 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



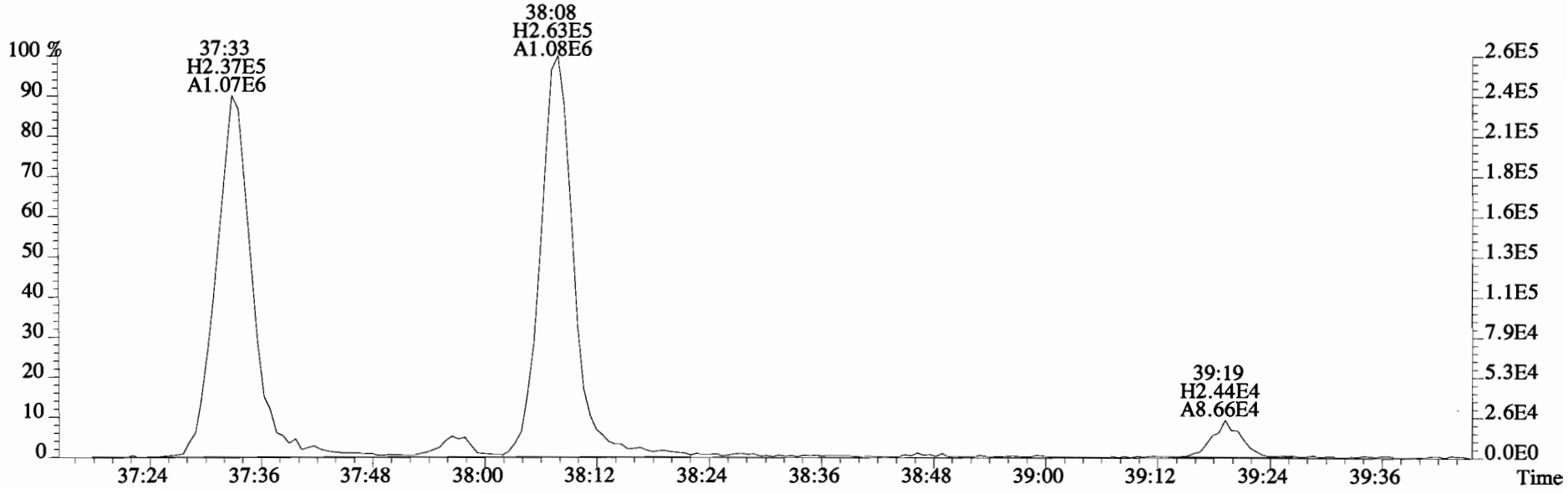
479.7165 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



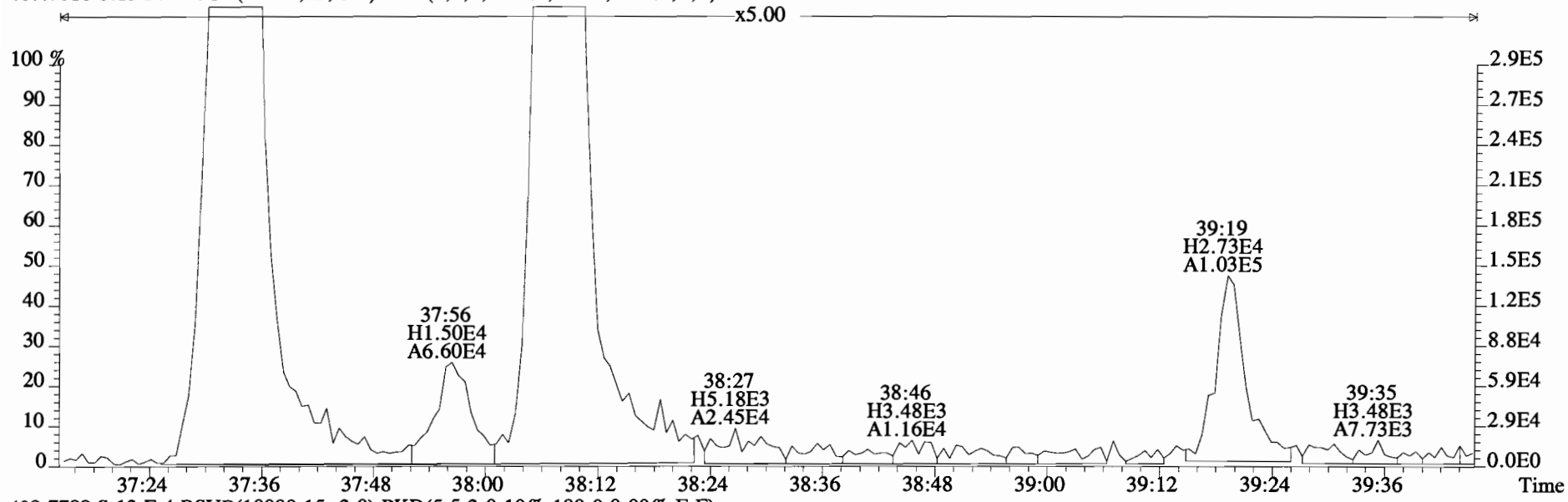
File:141027D1 #1-326 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
407.7818 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



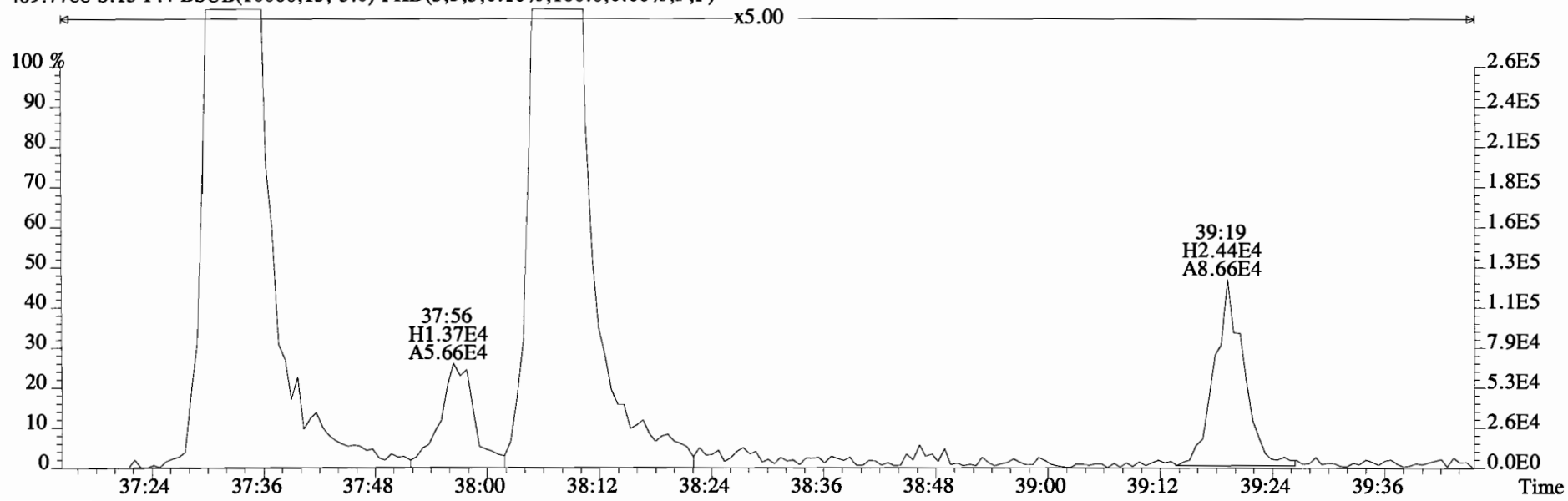
409.7788 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:141027D1 #1-326 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5
407.7818 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

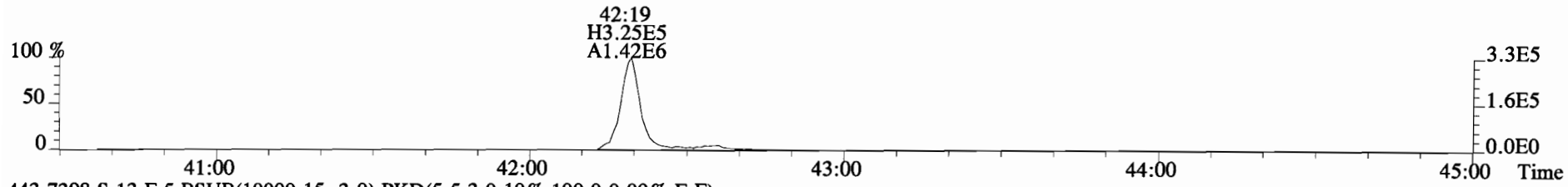


409.7788 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

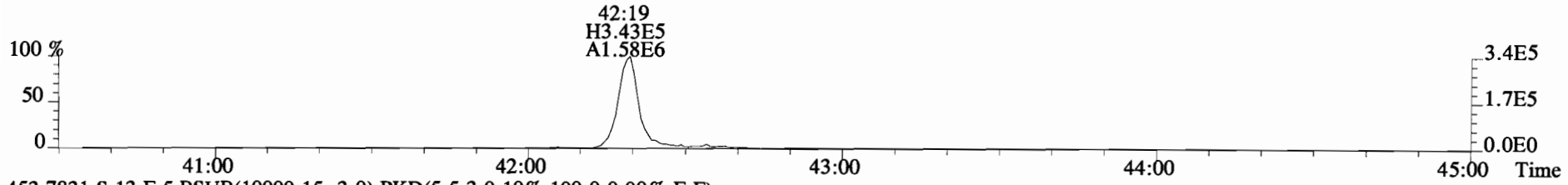


File:141027D1 #1-388 Acq:28-OCT-2014 00:13:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03 CC-A-01-20141013-S 17.04 Exp:OCDD_DB5

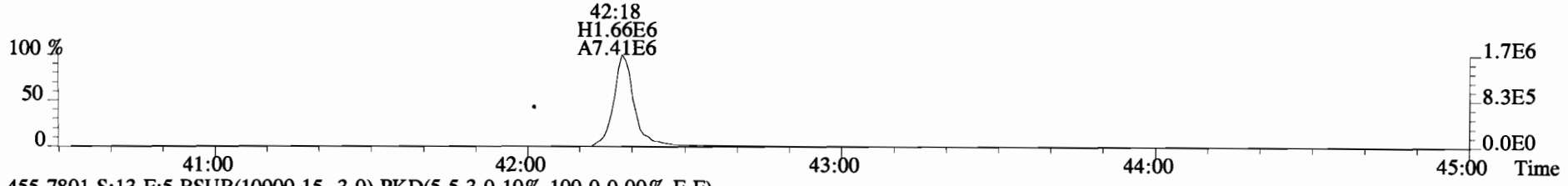
441.7428 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



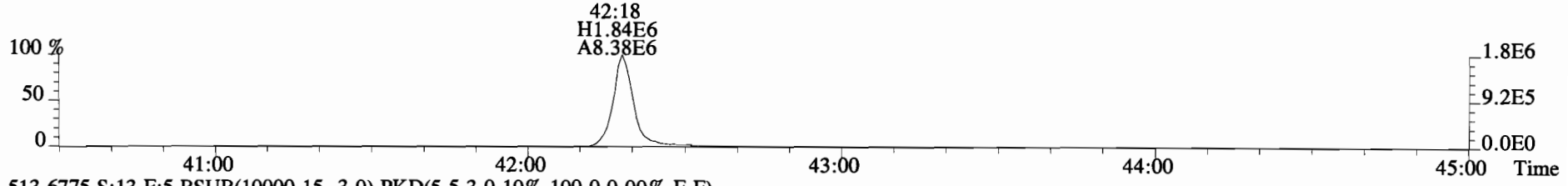
443.7398 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



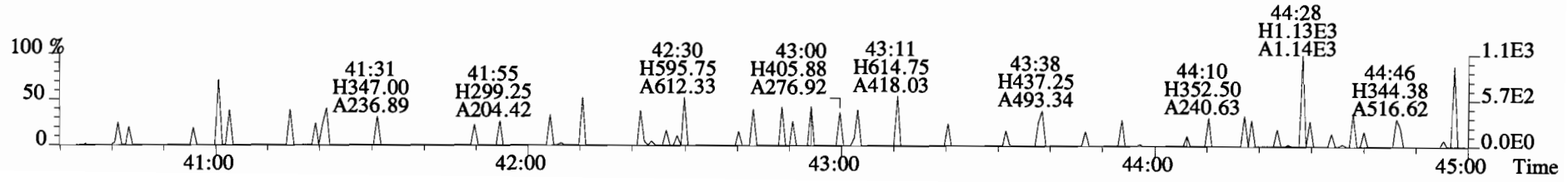
453.7831 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



	Name	Resp	RA		RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	2.94e+04	0.51	n	1.18	27:02	1.000	0.54186		*	2.5	*
	1,2,3,7,8-PeCDD	1.57e+05	0.57	y	0.92	31:33	1.000	3.2955		*	2.5	*
	1,2,3,4,7,8-HxCDD	1.66e+05	1.17	y	1.09	34:54	1.000	4.0932		*	2.5	*
	1,2,3,6,7,8-HxCDD	4.92e+05	1.35	y	1.07	35:00	1.000	11.245		*	2.5	*
	1,2,3,7,8,9-HxCDD	4.53e+05	1.17	y	0.93	35:18	1.000	10.819		*	2.5	*
	1,2,3,4,6,7,8-HpCDD	8.28e+06	1.02	y	1.12	38:46	1.000	212.46		*	2.5	*
	OCDD	7.37e+07	0.88	y	0.95	42:06	1.000	2151.2		*	2.5	*
	2,3,7,8-TCDF	5.32e+05	0.81	y	1.08	26:16	1.001	7.3450	ok	*	2.5	*
	1,2,3,7,8-PeCDF	1.55e+05	1.50	y	1.09	30:23	1.000	2.0533		*	2.5	*
	2,3,4,7,8-PeCDF	2.54e+05	1.70	y	1.04	31:17	1.000	3.6025		*	2.5	*
	1,2,3,4,7,8-HxCDF	2.67e+05	1.14	y	1.39	34:00	1.000	3.7881		*	2.5	*
	1,2,3,6,7,8-HxCDF	2.67e+05	1.31	y	1.26	34:07	1.000	3.5505		*	2.5	*
	2,3,4,6,7,8-HxCDF	2.61e+05	1.27	y	1.30	34:44	1.000	4.0013		*	2.5	*
	1,2,3,7,8,9-HxCDF	2.62e+04	1.30	y	1.19	35:42	1.000	0.49404		*	2.5	*
	1,2,3,4,6,7,8-HpCDF	2.06e+06	1.10	y	1.62	37:33	1.000	36.316		*	2.5	*
	1,2,3,4,7,8,9-HpCDF	1.29e+05	1.15	y	1.53	39:19	1.000	2.5669		*	2.5	*
	OCDF	2.35e+06	0.87	y	1.10	42:19	1.000	57.415		*	2.5	*
IS	13C-2,3,7,8-TCDD	9.15e+06	0.80	y	1.07	27:01	1.022	160.84				
IS	13C-1,2,3,7,8-PeCDD	1.03e+07	0.63	y	1.24	31:33	1.193	157.36				
IS	13C-1,2,3,4,7,8-HxCDD	7.44e+06	1.29	y	0.72	34:53	1.014	144.52				
IS	13C-1,2,3,6,7,8-HxCDD	8.19e+06	1.27	y	0.74	34:60	1.017	156.78				
IS	13C-1,2,3,7,8,9-HxCDD	8.98e+06	1.26	y	0.86	35:18	1.026	147.99				
IS	13C-1,2,3,4,6,7,8-HpCDD	6.99e+06	1.08	y	0.64	38:46	1.127	152.81				
IS	13C-OCDD	1.44e+07	0.86	y	0.78	42:05	1.223	259.01				
IS	13C-2,3,7,8-TCDF	1.34e+07	0.74	y	0.92	26:15	0.992	167.39				
IS	13C-1,2,3,7,8-PeCDF	1.39e+07	1.57	y	0.95	30:22	1.148	167.99				
IS	13C-2,3,4,7,8-PeCDF	1.35e+07	1.59	y	0.97	31:16	1.183	160.19				
IS	13C-1,2,3,4,7,8-HxCDF	1.01e+07	0.50	y	0.99	33:59	0.988	143.89				
IS	13C-1,2,3,6,7,8-HxCDF	1.19e+07	0.51	y	1.10	34:07	0.992	152.56				
IS	13C-2,3,4,6,7,8-HxCDF	1.00e+07	0.50	y	1.03	34:43	1.009	136.96				
IS	13C-1,2,3,7,8,9-HxCDF	8.88e+06	0.52	y	0.86	35:41	1.037	145.79				
IS	13C-1,2,3,4,6,7,8-HpCDF	7.02e+06	0.43	y	0.71	37:32	1.091	138.63				
IS	13C-1,2,3,4,7,8,9-HpCDF	6.56e+06	0.44	y	0.71	39:19	1.143	130.60				
IS	13C-OCDF	1.48e+07	0.88	y	0.87	42:19	1.230	239.36				
C/Up	37Cl-2,3,7,8-TCDD	4.09e+06			1.21	27:02	1.022	63.614				
RS/RT	13C-1,2,3,4-TCDD	1.06e+07	0.78	y	1.00	26:27	*	199.77				
RS	13C-1,2,3,4-TCDF	1.73e+07	0.76	y	1.00	25:01	*	199.77				
RS/RT	13C-1,2,3,4,6,9-HxCDF	1.42e+07	0.51	y	1.00	34:24	*	199.77				

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	16.8	19.2		*	*
Total Penta-Dioxins	34.8	34.8		*	*
Total Hexa-Dioxins	131	131		*	*
Total Hepta-Dioxins	446	446		*	*
Total Tetra-Furans	80.3	80.8		*	*
Total Penta-Furans	63.425	63.848		*	*
Total Hexa-Furans	63.5	63.5		*	*
Total Hepta-Furans	78.7	78.7		*	*

	Rec	Qual
IS	80.5	
IS	78.8	
IS	72.3	
IS	78.5	
IS	74.1	
IS	76.5	
IS	64.8	
IS	83.8	
IS	84.1	
IS	80.2	
IS	72.0	
IS	76.4	
IS	68.6	
IS	73.0	
IS	69.4	
IS	65.4	
IS	59.9	
C/Up	79.6	

Integrations by Analyst: MJ Date: 10/28/14

Reviewed by Analyst: Date: 10/29/14

Totals class: TCDD EMPC Entry #: 19

Run: 20 File: 141027D1 S: 14 I: 1 F: 1
Acquired: 28-OCT-14 01:01:43 Processed: 28-OCT-14 08:33:59

Total Concentration: 19.192 Unnamed Concentration: 18.651

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
23:37	1.551e+05	1.865e+05	0.83	y	3.417e+05	6.2956	
23:58	9.594e+04	1.281e+05	0.75	y	2.240e+05	4.1283	
24:23	1.768e+04	2.210e+04	0.80	y	3.978e+04	0.73302	
25:08	8.532e+03	1.283e+04	0.67	y	2.136e+04	0.39360	
25:21	3.171e+04	3.953e+04	0.80	y	7.124e+04	1.3127	
25:33	3.011e+04	3.855e+04	0.78	y	6.866e+04	1.2652	
25:43	1.688e+04	2.025e+04	0.83	y	3.713e+04	0.68414	
25:57	8.760e+03	8.090e+03	1.08	n	1.432e+04	0.26387	
26:06	1.630e+04	2.826e+04	0.58	n	3.747e+04	0.69054	
26:27	2.053e+04	2.356e+04	0.87	y	4.409e+04	0.81247	
26:33	4.015e+03	5.926e+03	0.68	y	9.942e+03	0.18319	
26:47	2.474e+04	2.265e+04	1.09	n	4.008e+04	0.73861	
26:55	4.919e+03	5.729e+03	0.86	y	1.065e+04	0.19620	
27:02	1.279e+04	2.523e+04	0.51	n	2.941e+04	0.54186	2,3,7,8-TCDD
27:19	1.426e+04	1.903e+04	0.75	y	3.329e+04	0.61346	
27:26	4.839e+03	6.625e+03	0.73	y	1.146e+04	0.21123	
27:54	4.908e+03	3.937e+03	1.25	n	6.969e+03	0.12841	

Totals class: PeCDD EMPC Entry #: 21

Run: 20 File: 141027D1 S: 14 I: 1 F: 2
Acquired: 28-OCT-14 01:01:43 Processed: 28-OCT-14 08:33:59

Total Concentration: 34.830 Unnamed Concentration: 31.535

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
29:30	1.748e+05	2.939e+05	0.59	y	4.687e+05	9.8577	
29:57	4.581e+04	7.450e+04	0.61	y	1.203e+05	2.5305	
30:24	7.439e+04	1.110e+05	0.67	y	1.854e+05	3.8994	
30:33	5.470e+04	9.996e+04	0.55	y	1.547e+05	3.2529	
30:39	6.264e+04	9.902e+04	0.63	y	1.617e+05	3.4001	
30:51	8.683e+04	1.347e+05	0.64	y	2.215e+05	4.6584	
31:09	1.957e+04	3.617e+04	0.54	y	5.574e+04	1.1723	
31:33	5.685e+04	9.984e+04	0.57	y	1.567e+05	3.2955	1,2,3,7,8-PeCDD
31:38	1.994e+04	3.195e+04	0.62	y	5.189e+04	1.0913	
31:55	3.173e+04	4.777e+04	0.66	y	7.950e+04	1.6720	

Totals class: HxCDD EMPC Entry #: 23

Run: 20 File: 141027D1 S: 14 I: 1 F: 3
Acquired: 28-OCT-14 01:01:43 Processed: 28-OCT-14 08:33:59

Total Concentration: 131.03 Unnamed Concentration: 104.871

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
33:20	8.815e+05	6.923e+05	1.27 y	1.574e+06	37.472	
33:55	2.300e+05	1.924e+05	1.20 y	4.224e+05	10.056	
34:11	1.190e+06	9.602e+05	1.24 y	2.150e+06	51.193	
34:19	8.146e+04	6.509e+04	1.25 y	1.466e+05	3.4893	
34:54	8.922e+04	7.639e+04	1.17 y	1.656e+05	4.0932	1,2,3,4,7,8-HxCDD
35:00	2.827e+05	2.090e+05	1.35 y	4.917e+05	11.245	1,2,3,6,7,8-HxCDD
35:12	6.180e+04	4.994e+04	1.24 y	1.117e+05	2.6606	
35:18	2.446e+05	2.083e+05	1.17 y	4.529e+05	10.819	1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC Entry #: 25

Run: 20 File: 141027D1 S: 14 I: 1 F: 4
Acquired: 28-OCT-14 01:01:43 Processed: 28-OCT-14 08:33:59

Total Concentration: 445.85 Unnamed Concentration: 233.392

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
37:56	4.662e+06	4.439e+06	1.05 y	9.101e+06	233.39	
38:46	4.189e+06	4.095e+06	1.02 y	8.284e+06	212.46	1,2,3,4,6,7,8-HpCDD

Totals class: TCDF EMPC Entry #: 27

Run: 20 File: 141027D1 S: 14 I: 1 F: 1
Acquired: 28-OCT-14 01:01:43 Processed: 28-OCT-14 08:33:59

Total Concentration: 80.843 Unnamed Concentration: 73.498

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
21:27	1.300e+04	1.879e+04	0.69	y	3.179e+04	0.43932	
22:01	7.196e+04	8.850e+04	0.81	y	1.605e+05	2.2174	
22:41	2.143e+05	3.053e+05	0.70	y	5.195e+05	7.1795	
23:12	1.887e+05	2.526e+05	0.75	y	4.413e+05	6.0989	
23:35	2.255e+05	2.868e+05	0.79	y	5.123e+05	7.0791	
24:00	1.172e+05	1.497e+05	0.78	y	2.669e+05	3.6888	
24:09	1.726e+05	2.117e+05	0.82	y	3.843e+05	5.3100	
24:18	1.741e+05	2.172e+05	0.80	y	3.913e+05	5.4077	
24:39	3.036e+04	3.679e+04	0.83	y	6.715e+04	0.92799	
24:47	6.574e+04	9.371e+04	0.70	y	1.595e+05	2.2035	
24:55	1.349e+05	1.871e+05	0.72	y	3.220e+05	4.4496	
25:02	1.832e+05	2.412e+05	0.76	y	4.244e+05	5.8647	
25:27	1.301e+05	1.693e+05	0.77	y	2.994e+05	4.1370	
25:42	1.011e+05	1.175e+05	0.86	y	2.186e+05	3.0211	
25:52	3.811e+04	4.649e+04	0.82	y	8.460e+04	1.1690	
26:03	3.935e+04	4.921e+04	0.80	y	8.856e+04	1.2238	
26:09	4.479e+04	5.678e+04	0.79	y	1.016e+05	1.4036	
26:16	2.377e+05	2.939e+05	0.81	y	5.315e+05	7.3450	2,3,7,8-TCDF
26:35	3.309e+05	4.271e+05	0.77	y	7.580e+05	10.475	
26:49	1.847e+04	2.780e+04	0.66	y	4.627e+04	0.63945	
28:01	2.216e+04	2.298e+04	0.96	n	4.068e+04	0.56213	

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 20 File: 141027D1 S: 14 I: 1 F: 1
Acquired: 28-OCT-14 01:01:43 Processed: 28-OCT-14 08:33:59

Total Concentration: 18.182 Unnamed Concentration: 18.182

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
28:01	8.077e+05	5.183e+05	1.56 y	1.326e+06	18.182	

Totals class: PeCDF EMPC Entry #: 31

Run: 20 File: 141027D1 S: 14 I: 1 F: 2
Acquired: 28-OCT-14 01:01:43 Processed: 28-OCT-14 08:33:59

Total Concentration: 45.666 Unnamed Concentration: 40.010

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
29:20	2.598e+05	1.613e+05	1.61	y	4.210e+05	5.7733	
29:28	8.479e+05	5.278e+05	1.61	y	1.376e+06	18.863	
29:49	5.343e+04	3.296e+04	1.62	y	8.638e+04	1.1845	
30:00	2.763e+05	1.744e+05	1.58	y	4.507e+05	6.1800	
30:13	5.563e+04	3.654e+04	1.52	y	9.217e+04	1.2638	
30:23	9.318e+04	6.194e+04	1.50	y	1.551e+05	2.0533	1,2,3,7,8-PeCDF
30:37	1.478e+05	8.685e+04	1.70	y	2.347e+05	3.2178	
31:05	9.313e+03	7.838e+03	1.19	n	1.532e+04	0.21010	
31:11	1.039e+05	6.426e+04	1.62	y	1.682e+05	2.3064	
31:17	1.597e+05	9.390e+04	1.70	y	2.536e+05	3.6025	2,3,4,7,8-PeCDF
31:20	3.395e+04	2.424e+04	1.40	y	5.819e+04	0.79789	
32:10	9.454e+03	7.877e+03	1.20	n	1.555e+04	0.21328	

Totals class: HxCDF EMPC Entry #: 33

Run: 20 File: 141027D1 S: 14 I: 1 F: 3
Acquired: 28-OCT-14 01:01:43 Processed: 28-OCT-14 08:33:59

Total Concentration: 63.456 Unnamed Concentration: 51.622

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
32:48	2.730e+05	2.266e+05	1.20 y	4.996e+05	7.5745	
32:57	1.105e+06	8.676e+05	1.27 y	1.972e+06	29.904	
33:20	3.466e+04	3.133e+04	1.11 y	6.599e+04	1.0005	
33:31	3.888e+05	3.183e+05	1.22 y	7.071e+05	10.721	
33:53	8.065e+04	5.721e+04	1.41 y	1.379e+05	2.0902	
34:00	1.422e+05	1.244e+05	1.14 y	2.666e+05	3.7881	1,2,3,4,7,8-HxCDF
34:07	1.511e+05	1.156e+05	1.31 y	2.667e+05	3.5505	1,2,3,6,7,8-HxCDF
34:44	1.458e+05	1.150e+05	1.27 y	2.609e+05	4.0013	2,3,4,6,7,8-HxCDF
35:42	1.480e+04	1.137e+04	1.30 y	2.616e+04	0.49404	1,2,3,7,8,9-HxCDF
35:46	1.215e+04	9.754e+03	1.25 y	2.190e+04	0.33213	

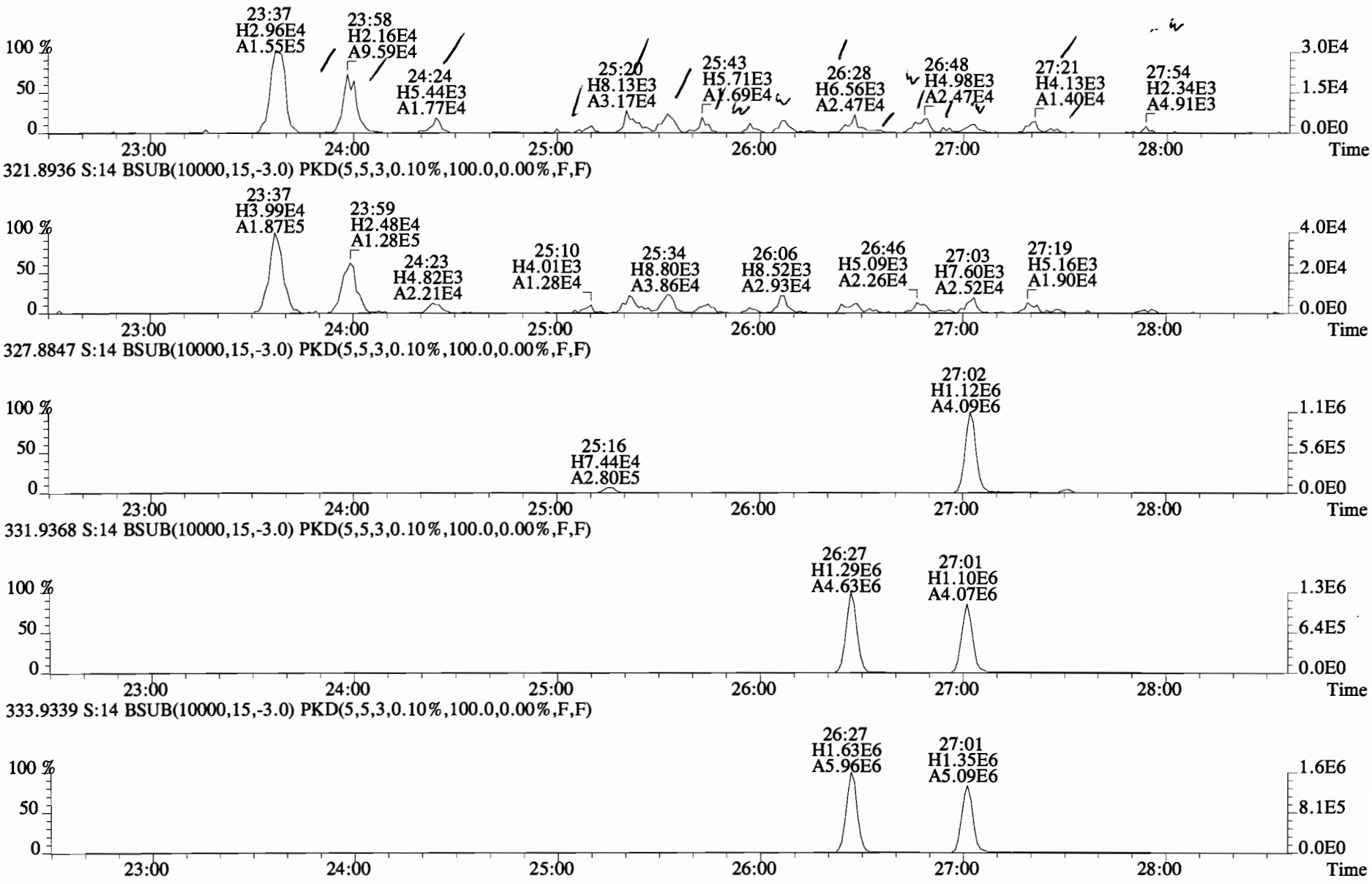
Totals class: HpCDF EMPC Entry #: 35

Run: 20 File: 141027D1 S: 14 I: 1 F: 4
Acquired: 28-OCT-14 01:01:43 Processed: 28-OCT-14 08:33:59

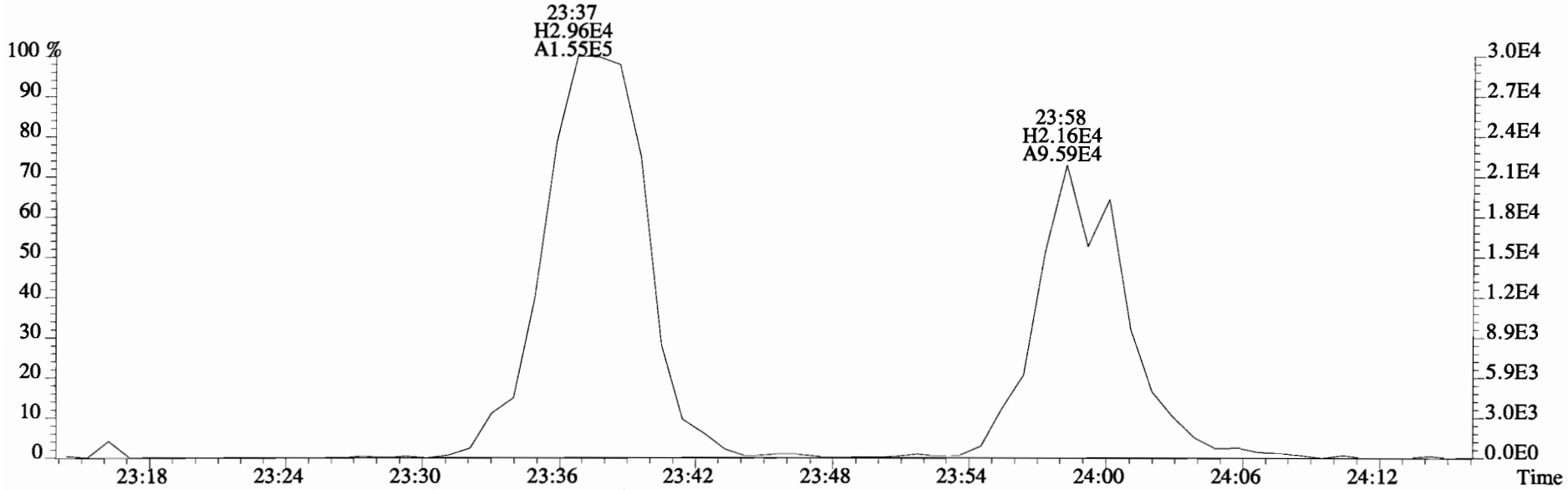
Total Concentration: 78.733 Unnamed Concentration: 39.851

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
37:33	1.081e+06	9.813e+05	1.10 y	2.063e+06	36.316	1,2,3,4,6,7,8-HpCDF
38:08	1.096e+06	1.033e+06	1.06 y	2.129e+06	39.851	
39:19	6.874e+04	5.998e+04	1.15 y	1.287e+05	2.5669	1,2,3,4,7,8,9-HpCDF

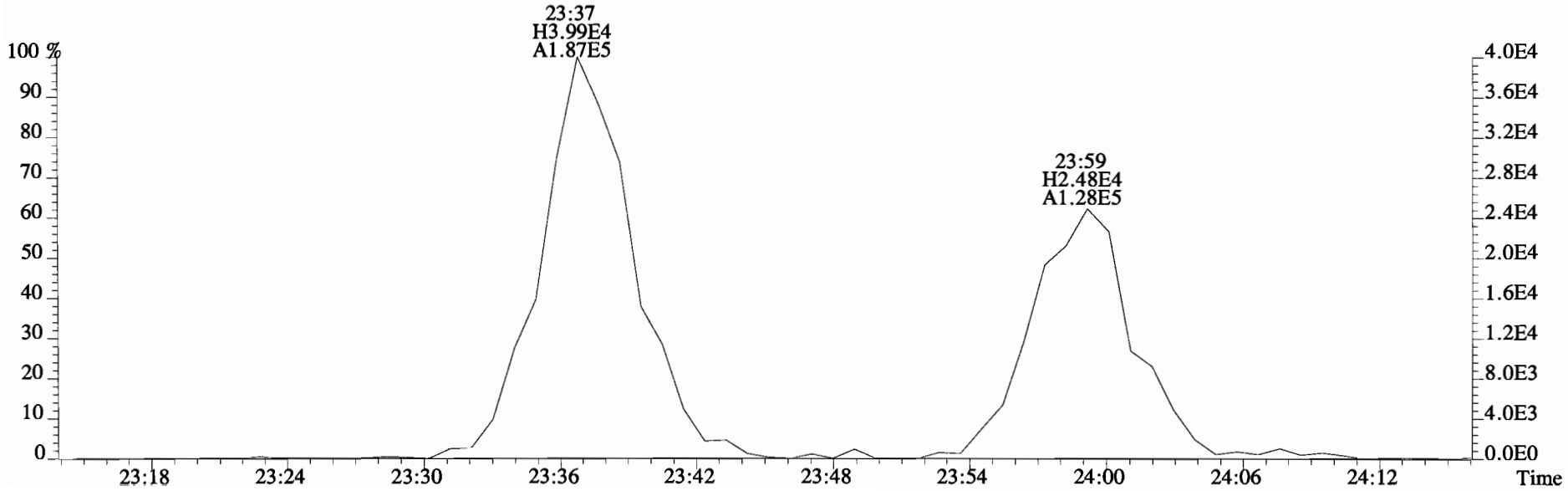
File:141027D1 #1-551 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5



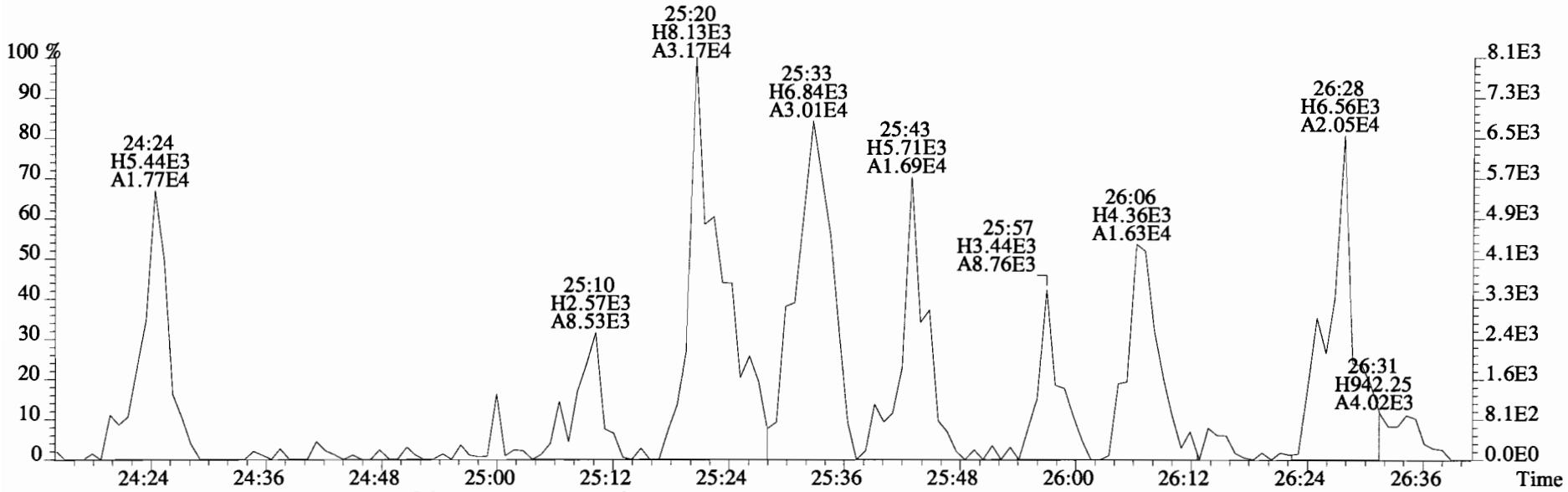
File:141027D1 #1-551 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
319.8965 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



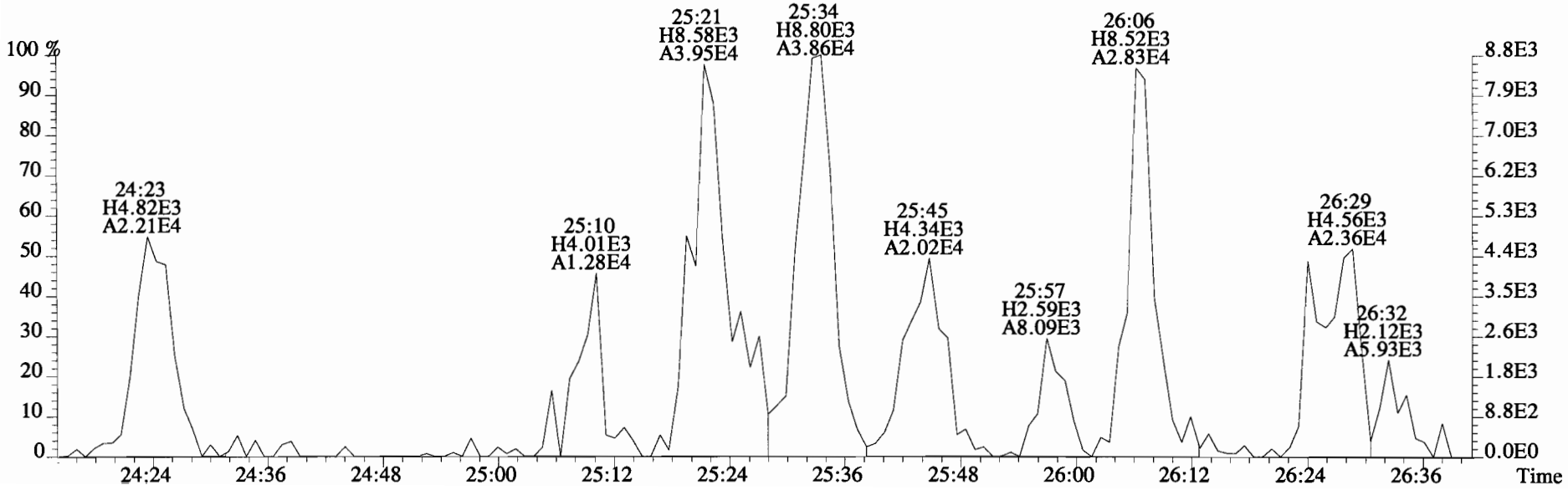
321.8936 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



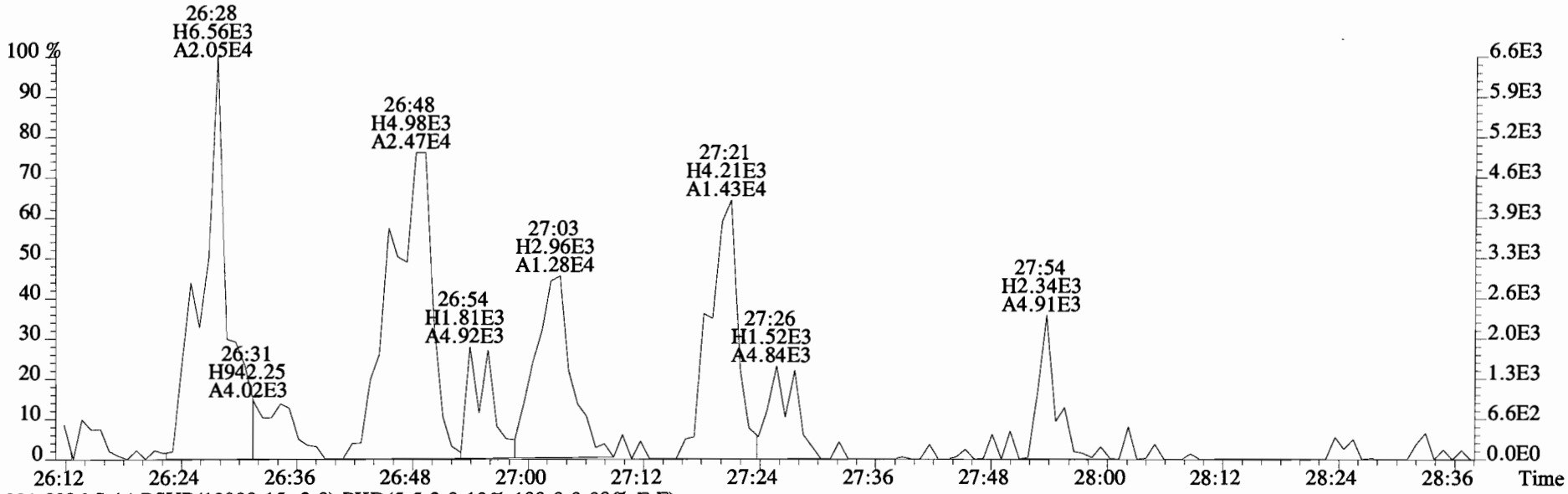
File:141027D1 #1-551 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
319.8965 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



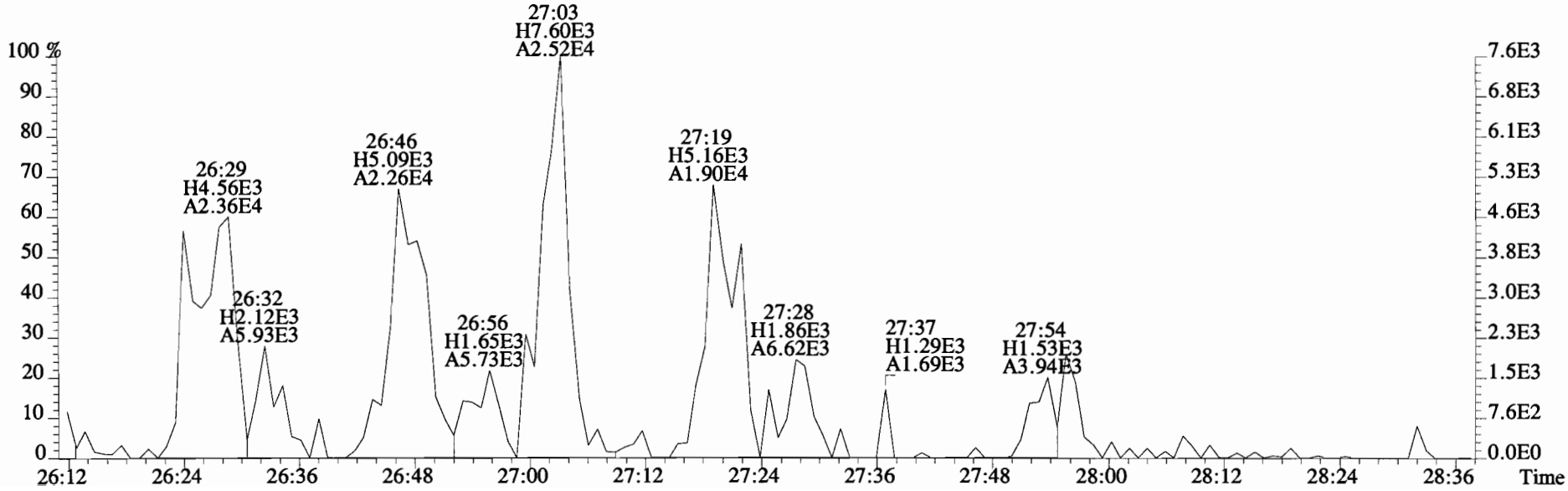
321.8936 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



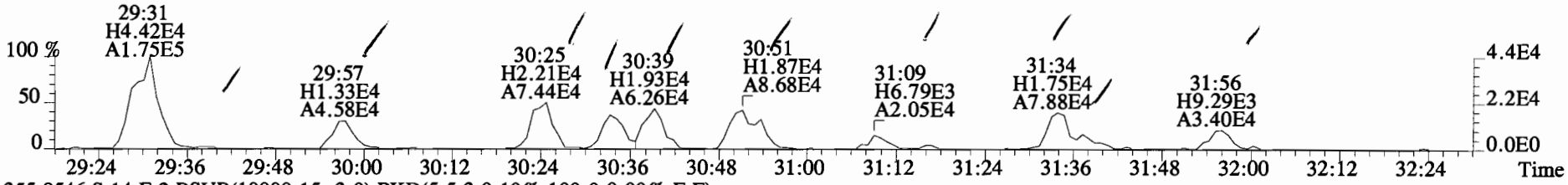
File:141027D1 #1-551 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
319.8965 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



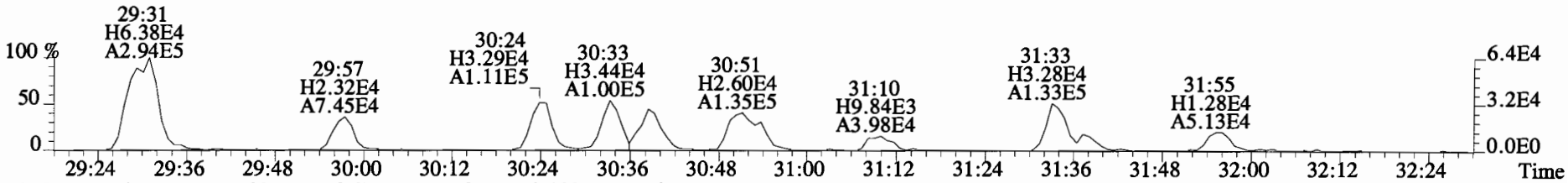
321.8936 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



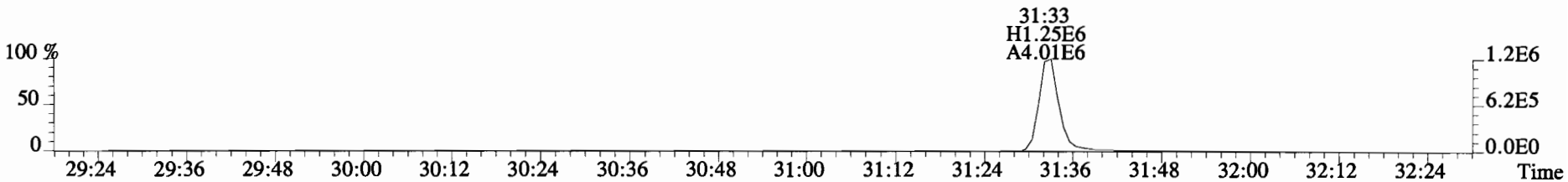
File:141027D1 #1-256 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
353.8576 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



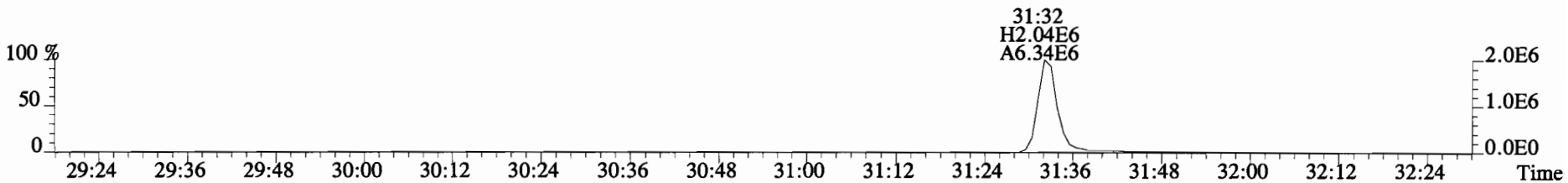
355.8546 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



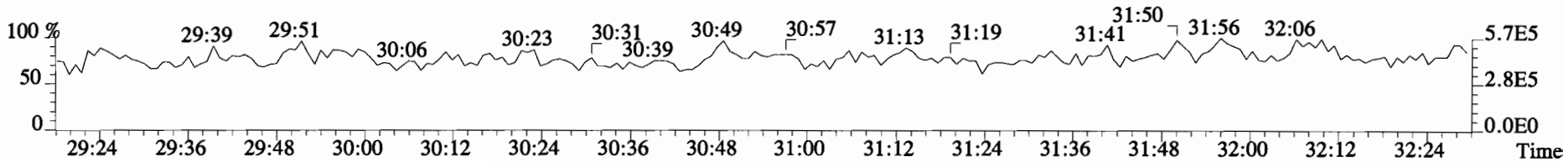
365.8978 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



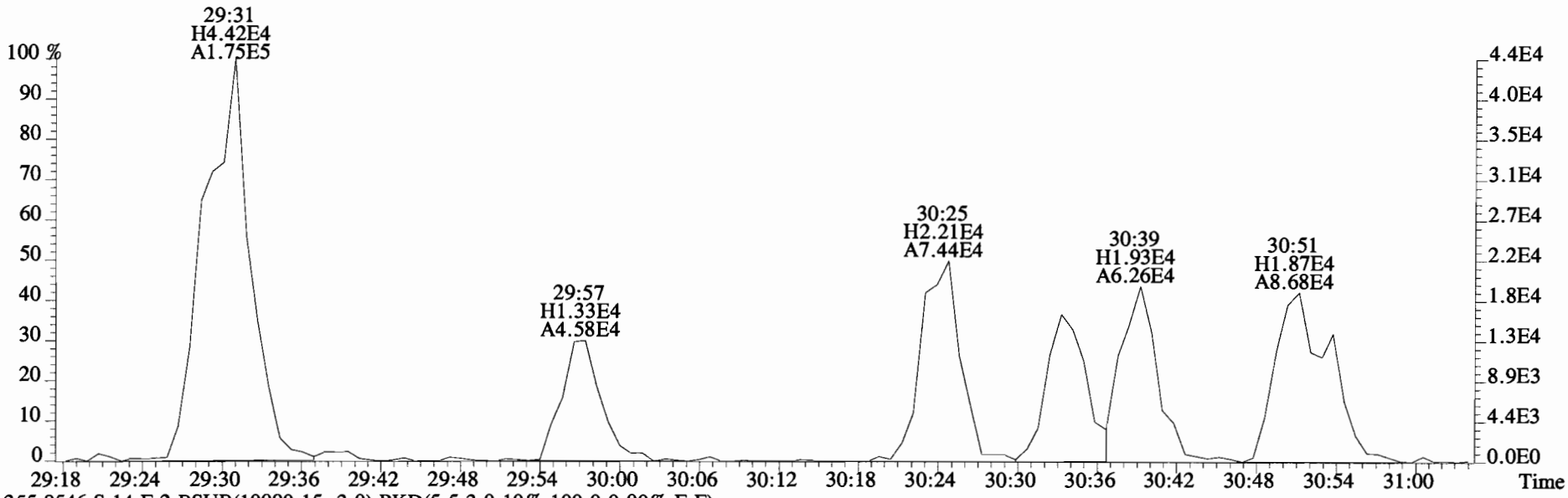
367.8949 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



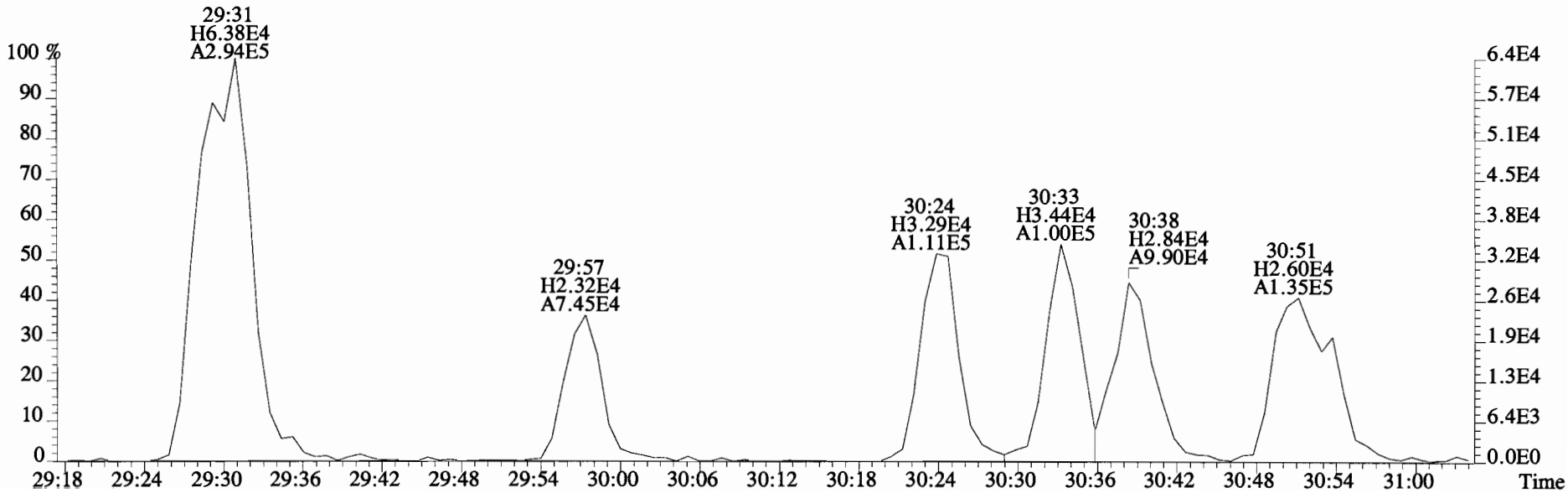
366.9792 S:14 F:2



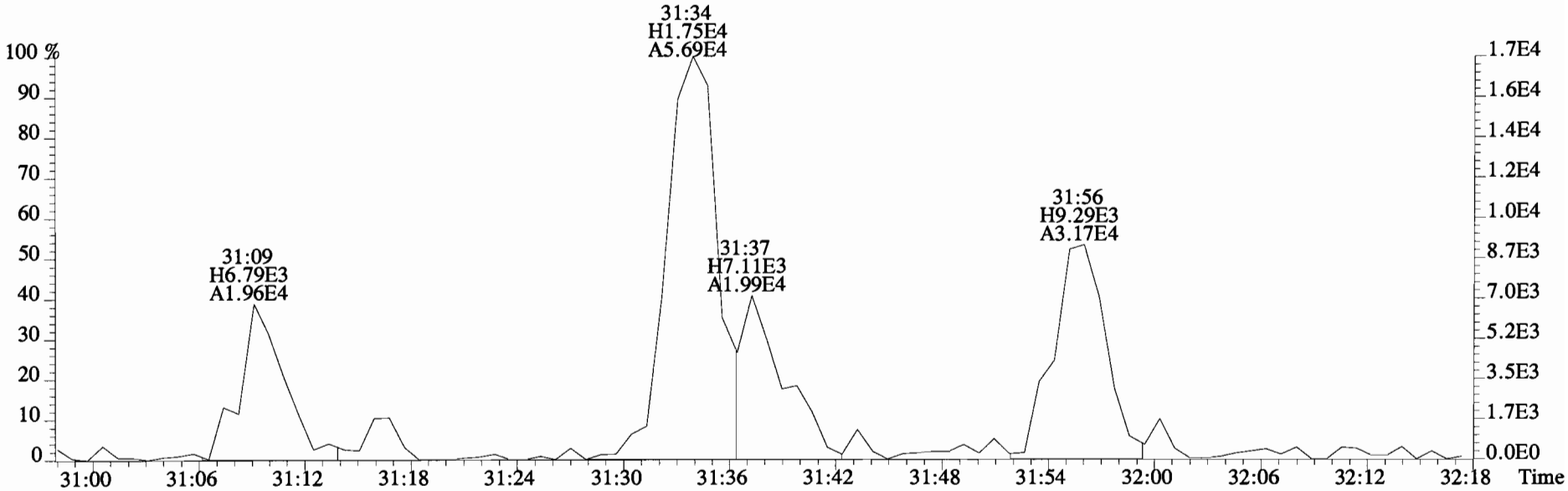
File:141027D1 #1-256 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
353.8576 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



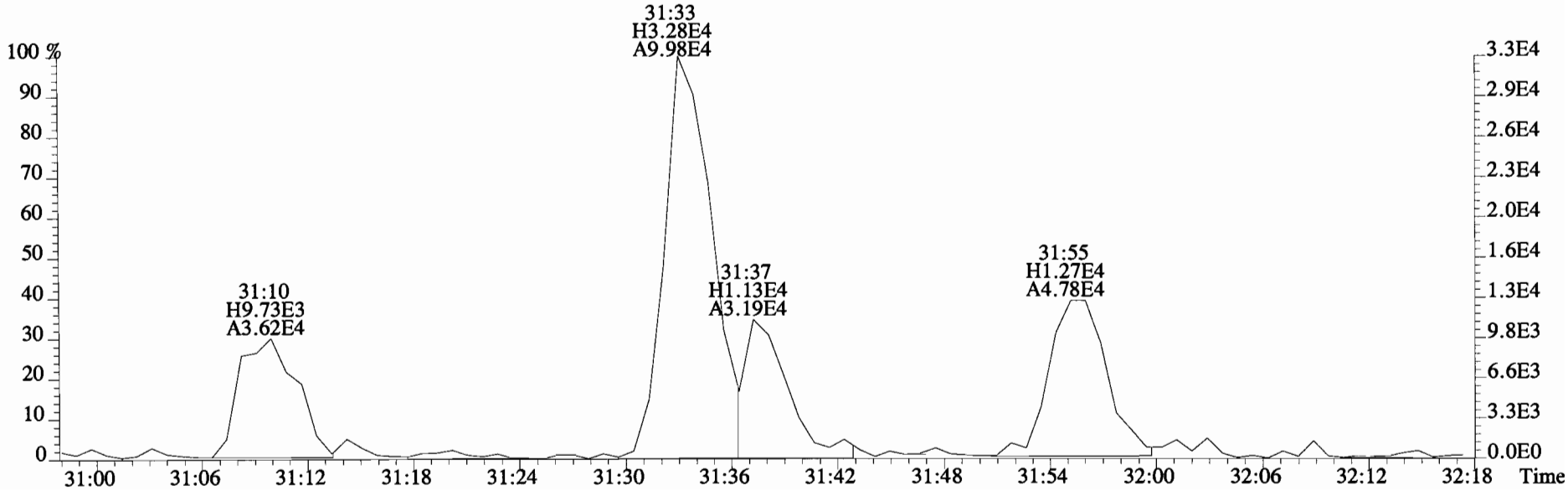
355.8546 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



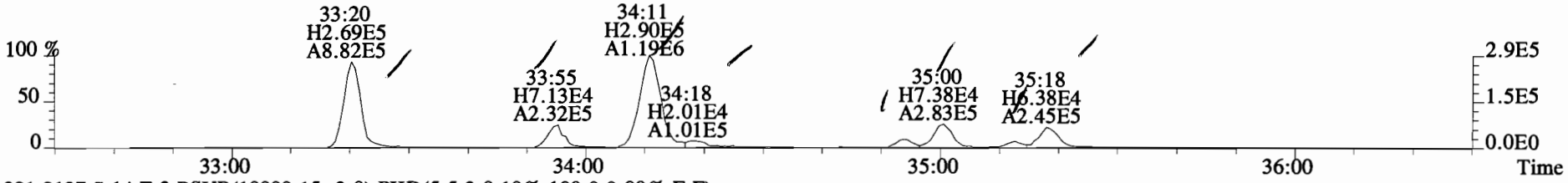
File:141027D1 #1-256 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
353.8576 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



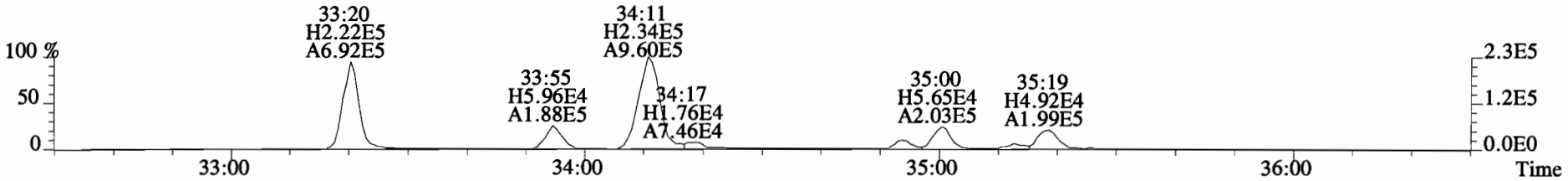
355.8546 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



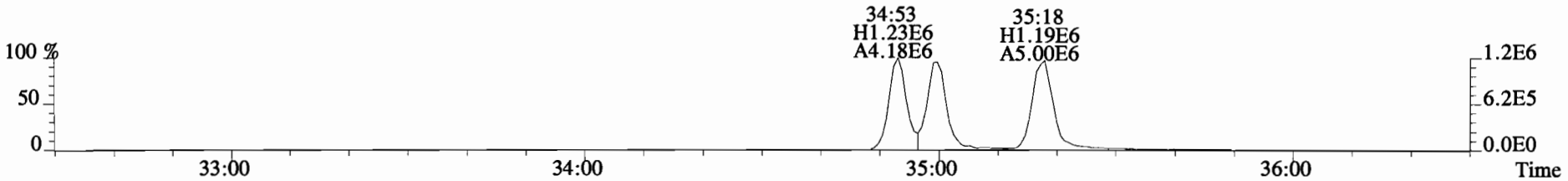
File:141027D1 #1-385 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
389.8156 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



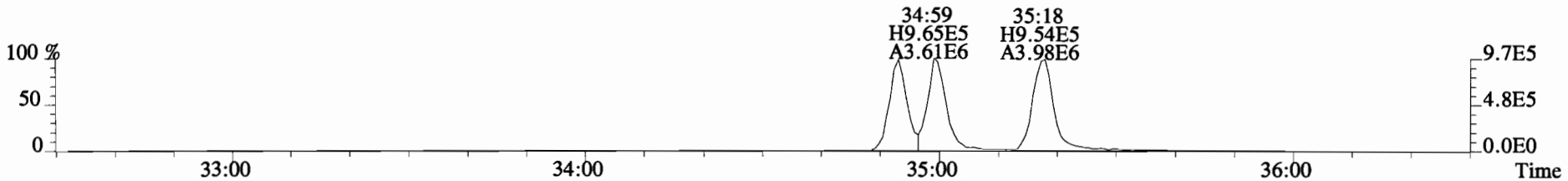
391.8127 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



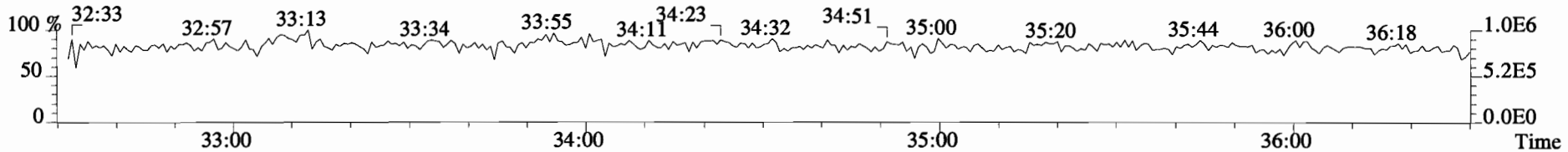
401.8559 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



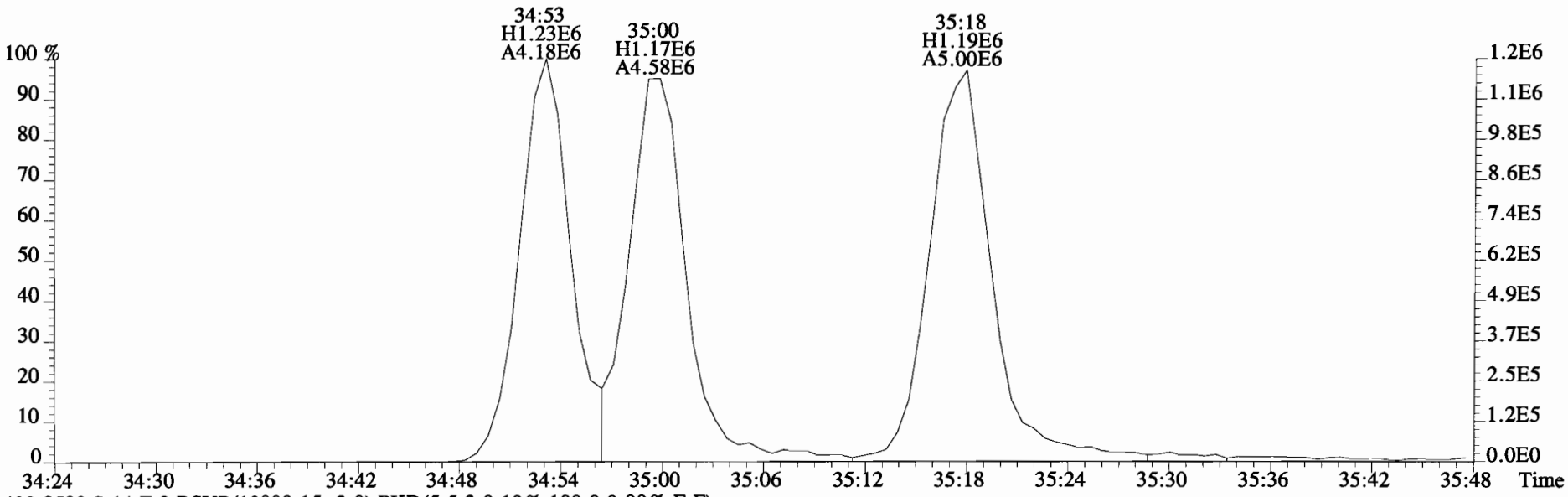
403.8530 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



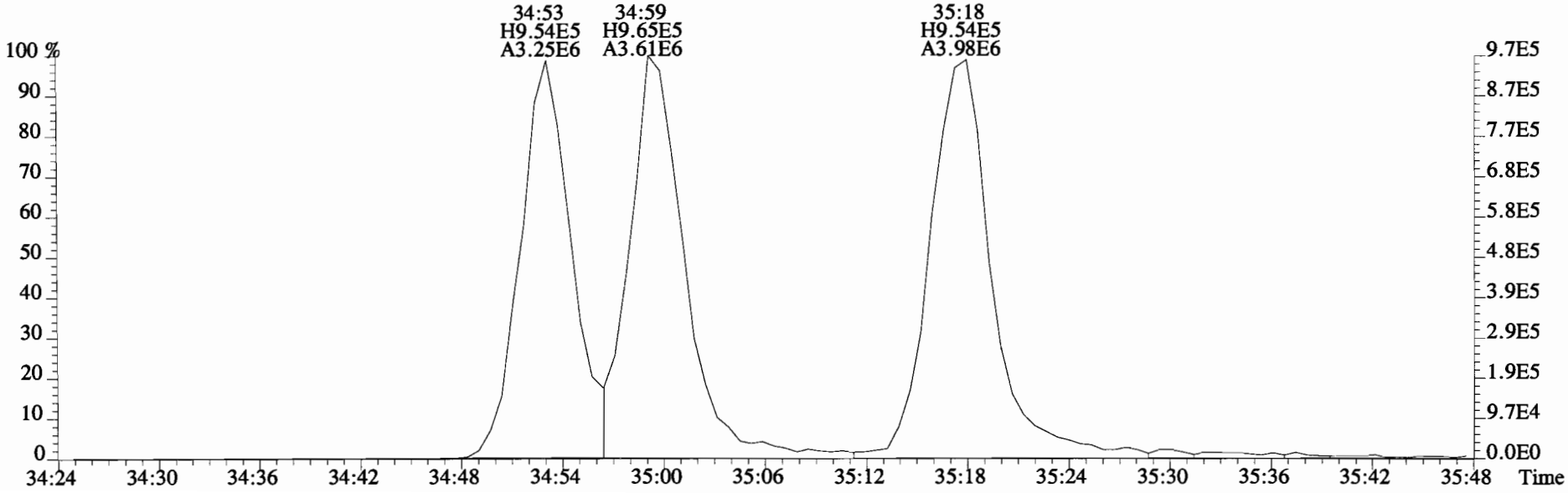
380.9760 S:14 F:3

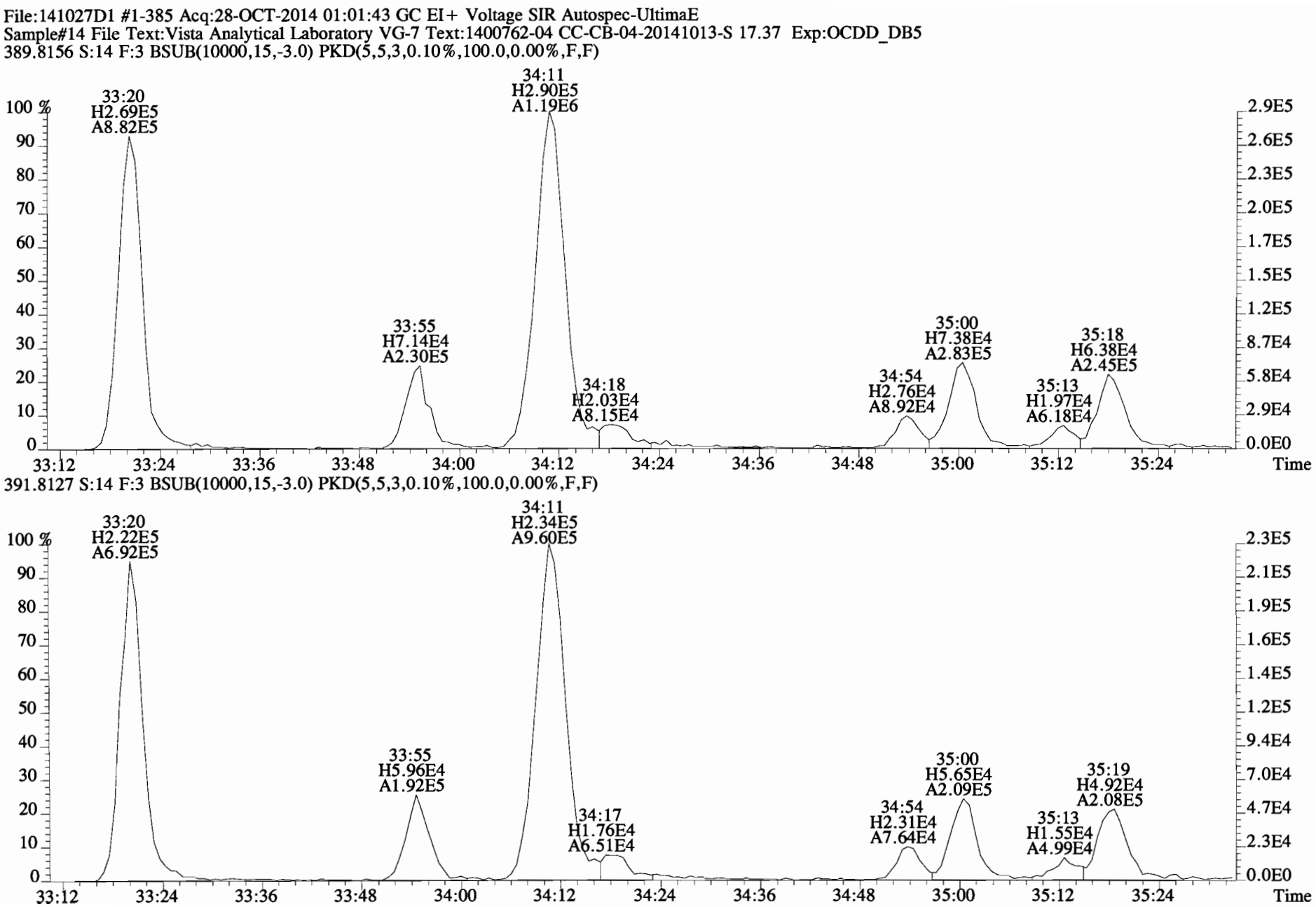


File:141027D1 #1-385 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
401.8559 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

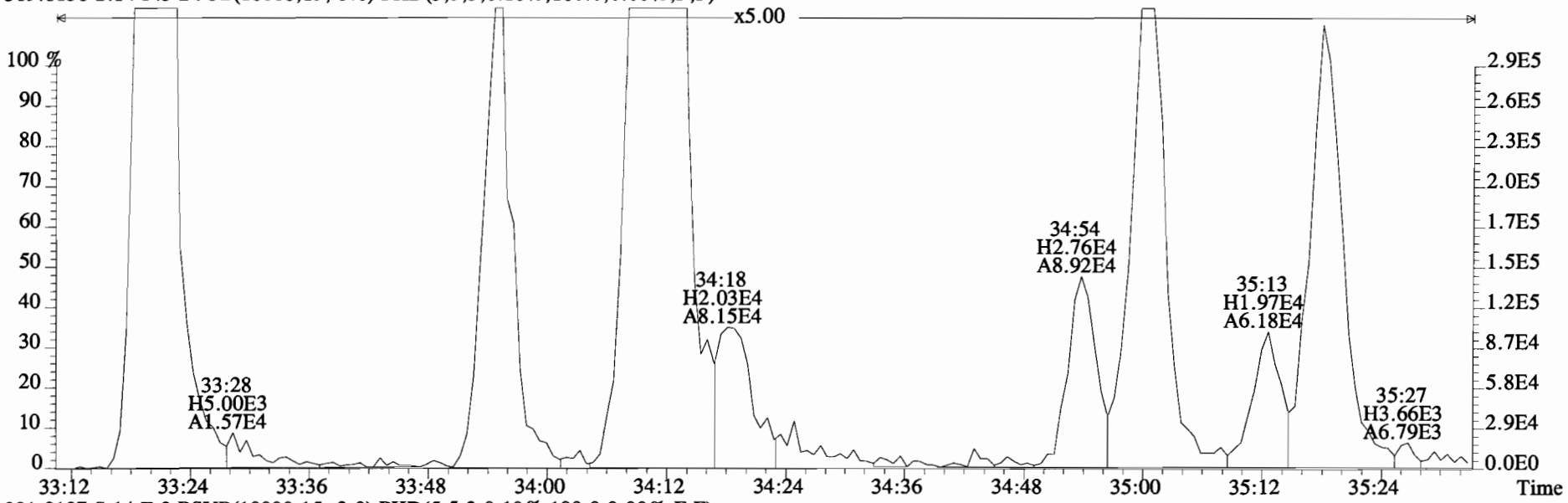


403.8530 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

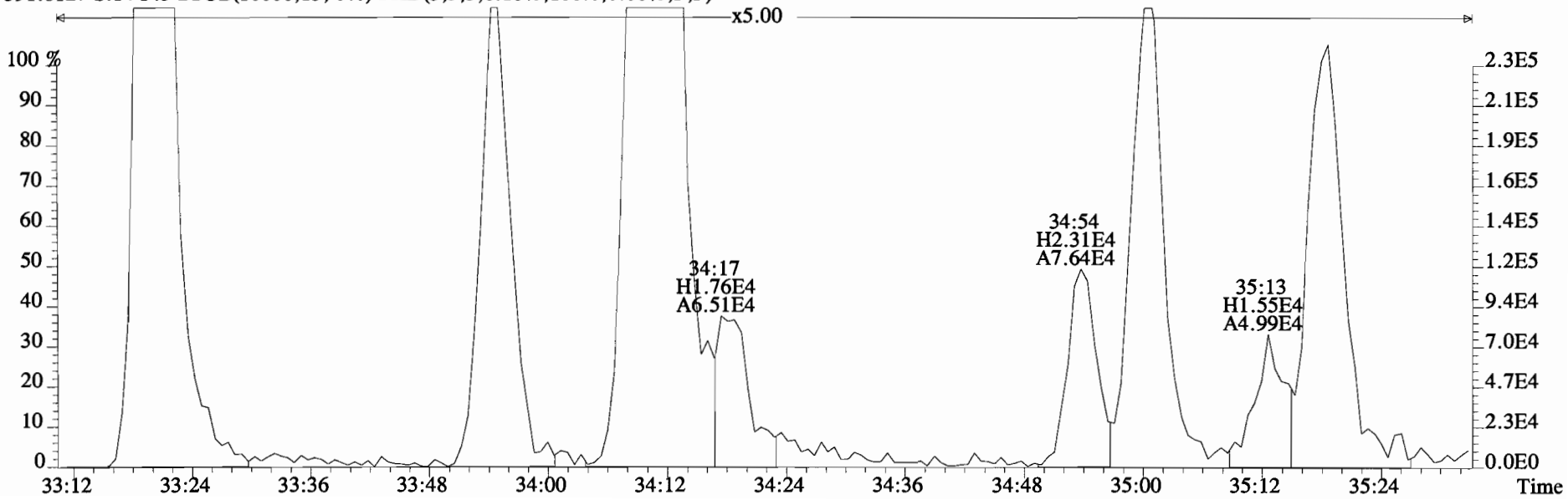



File:141027D1 #1-385 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
389.8156 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
33:20 H2.69E5 A8.82E5
33:55 H7.14E4 A2.30E5
34:11 H2.90E5 A1.19E6
34:18 H2.03E4 A8.15E4
34:54 H2.76E4 A8.92E4
35:00 H7.38E4 A2.83E5
35:13 H1.97E4 A6.18E4
35:18 H6.38E4 A2.45E5
391.8127 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
33:20 H2.22E5 A6.92E5
33:55 H5.96E4 A1.92E5
34:11 H2.34E5 A9.60E5
34:17 H1.76E4 A6.51E4
34:54 H2.31E4 A7.64E4
35:00 H5.65E4 A2.09E5
35:13 H1.55E4 A4.99E4
35:19 H4.92E4 A2.08E5
100 %
Time

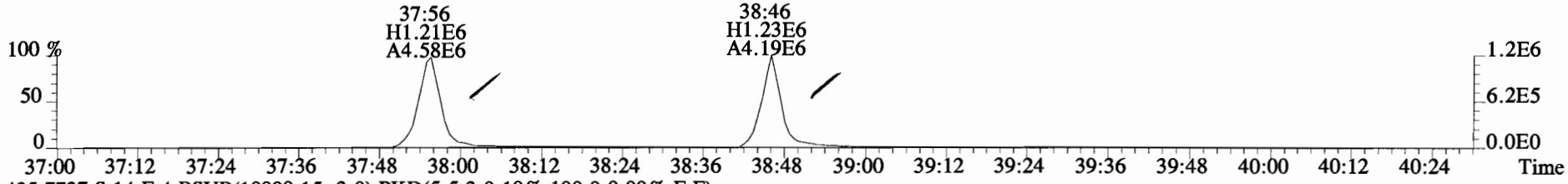
File:141027D1 #1-385 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
389.8156 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



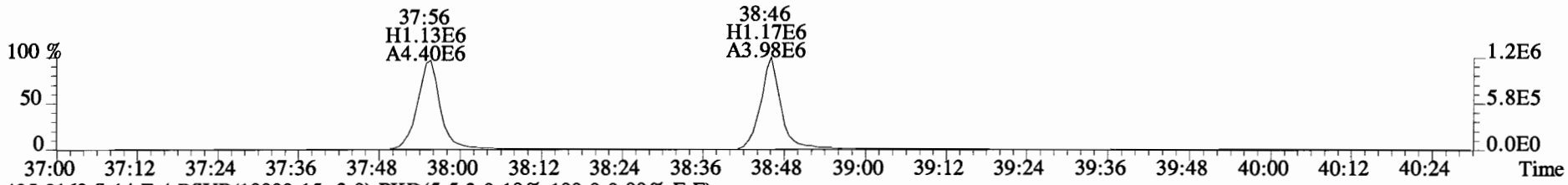
391.8127 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



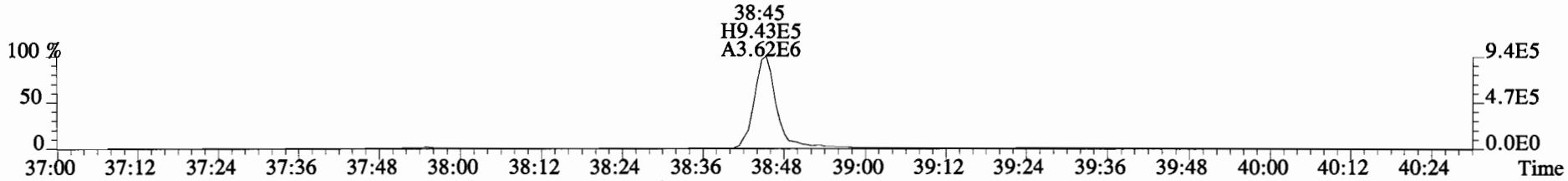
File:141027D1 #1-326 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
423.7767 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



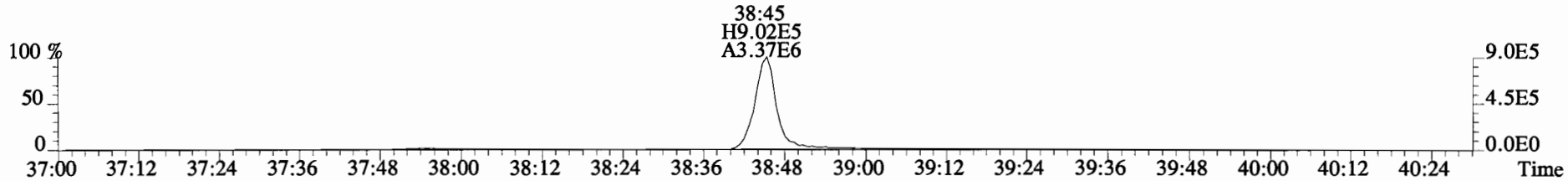
425.7737 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



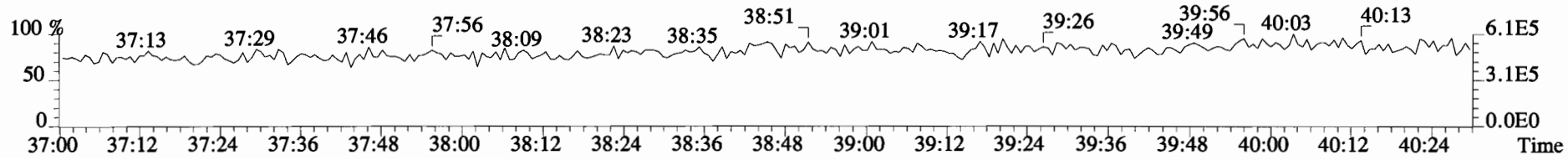
435.8169 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



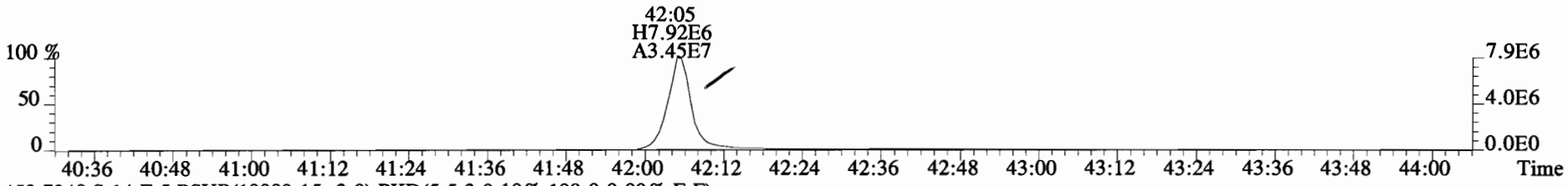
437.8140 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



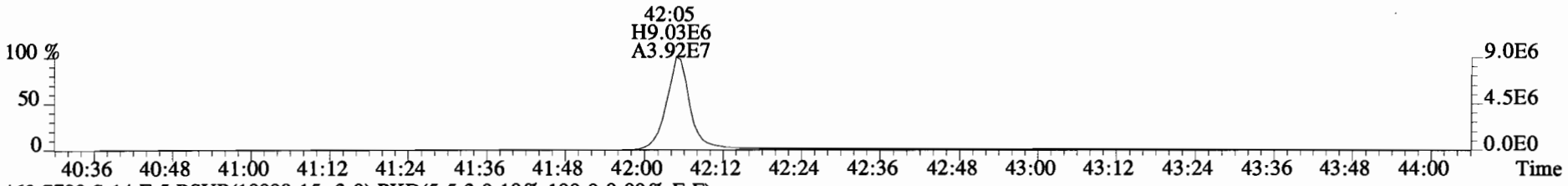
430.9728 S:14 F:4



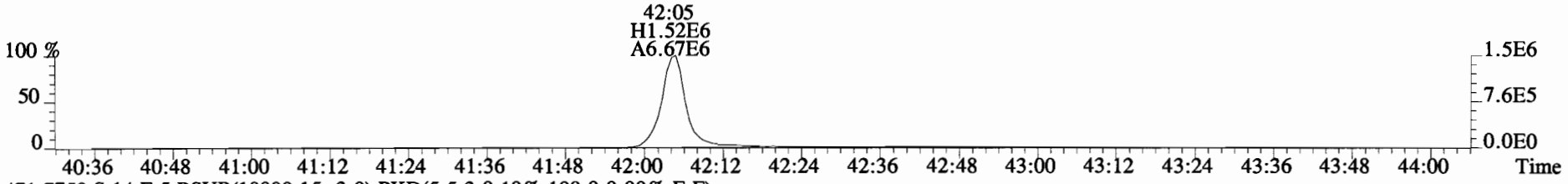
File:141027D1 #1-389 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
457.7377 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



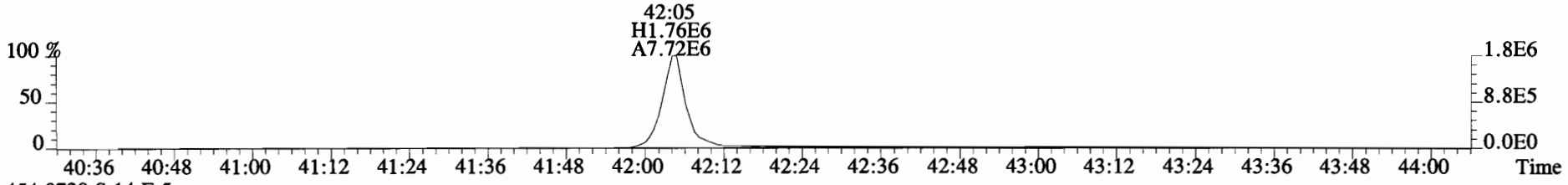
459.7348 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



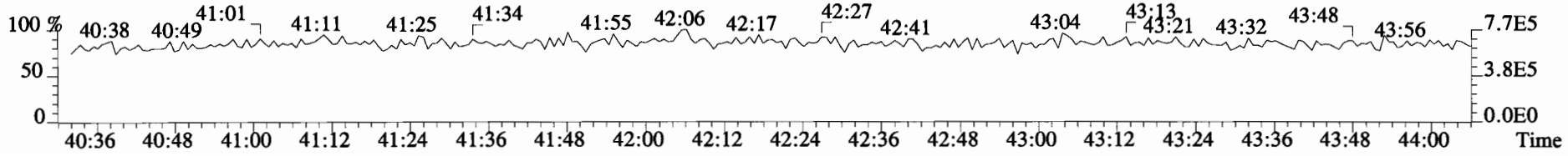
469.7780 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

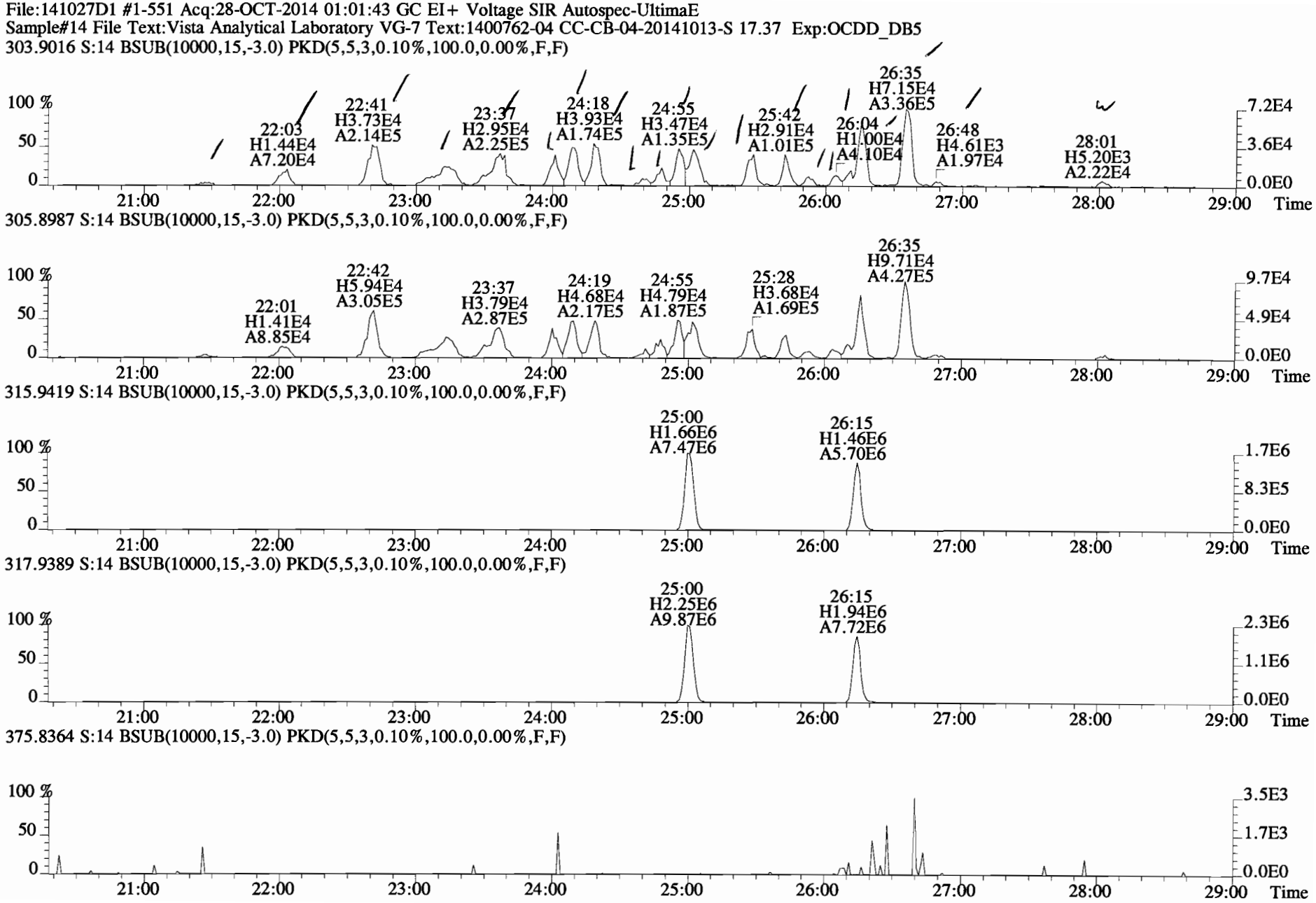


471.7750 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

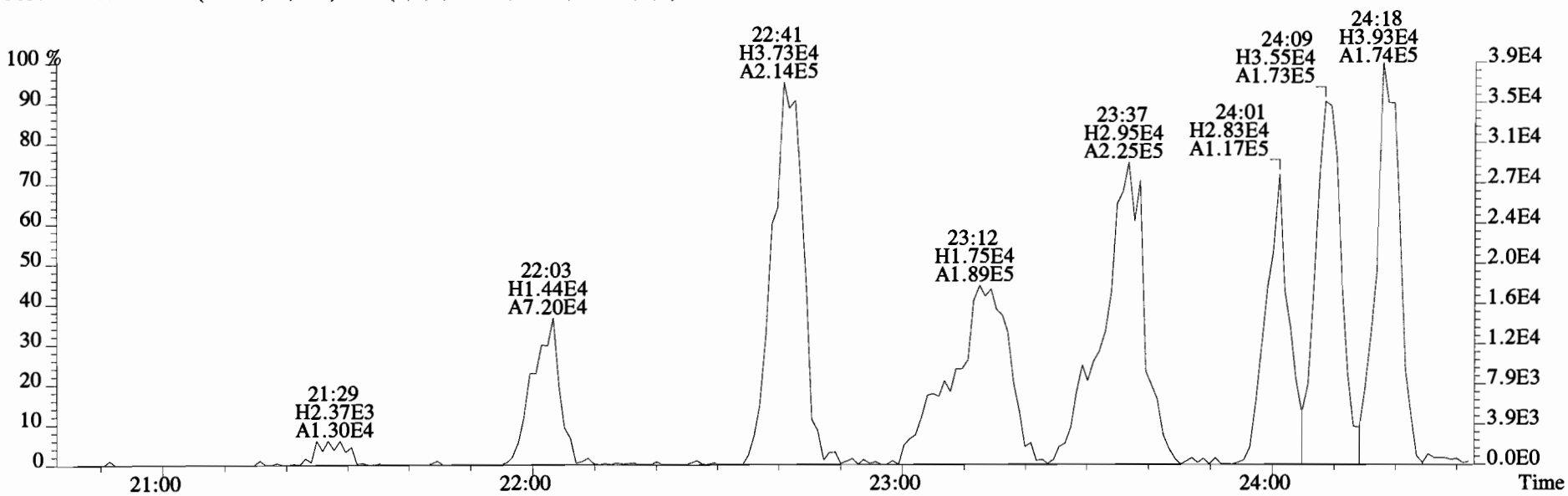


454.9728 S:14 F:5

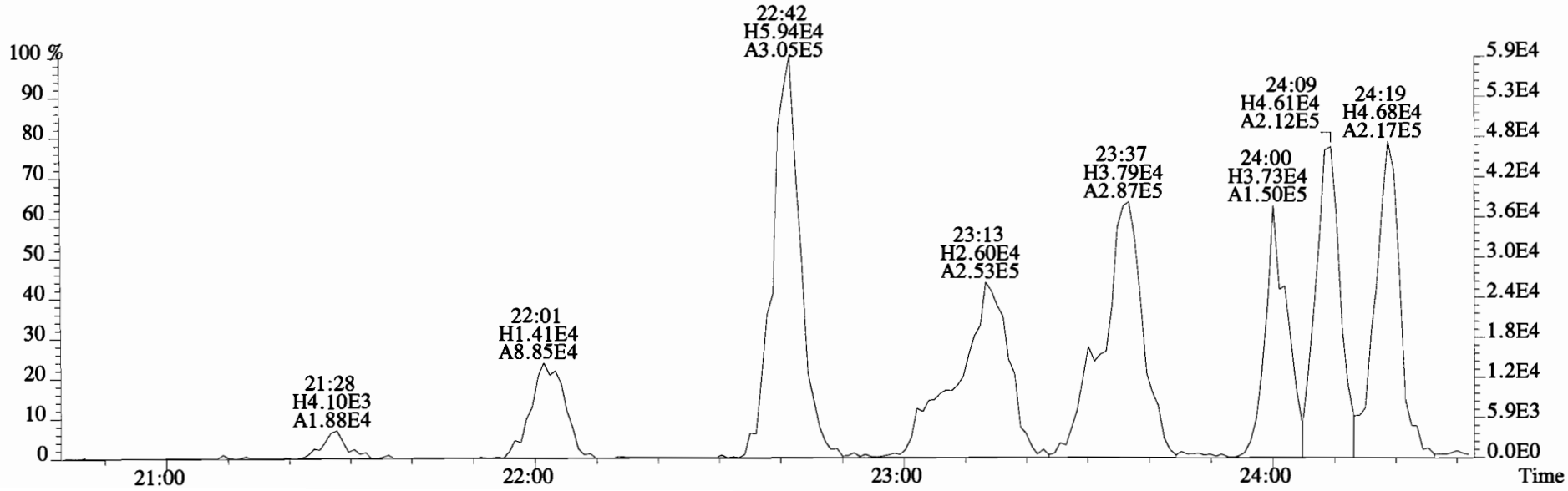



File:141027D1 #1-551 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
303.9016 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
22:03 H1.44E4 A7.20E4
22:41 H3.73E4 A2.14E5
23:37 H2.95E4 A2.25E5
24:18 H3.93E4 A1.74E5
24:55 H3.47E4 A1.35E5
25:42 H2.91E4 A1.01E5
26:04 H1.00E4 A4.10E4
26:35 H7.15E4 A3.36E5
26:48 H4.61E3 A1.97E4
28:01 H5.20E3 A2.22E4
305.8987 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
22:01 H1.41E4 A8.85E4
22:42 H5.94E4 A3.05E5
23:37 H3.79E4 A2.87E5
24:19 H4.68E4 A2.17E5
24:55 H4.79E4 A1.87E5
25:28 H3.68E4 A1.69E5
26:35 H9.71E4 A4.27E5
315.9419 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
25:00 H1.66E6 A7.47E6
26:15 H1.46E6 A5.70E6
317.9389 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
25:00 H2.25E6 A9.87E6
26:15 H1.94E6 A7.72E6
375.8364 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
100 %
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
28:00
29:00
Time
7.2E4
3.6E4
0.0E0
9.7E4
4.9E4
1.7E6
8.3E5
2.3E6
1.1E6
3.5E3
1.7E3

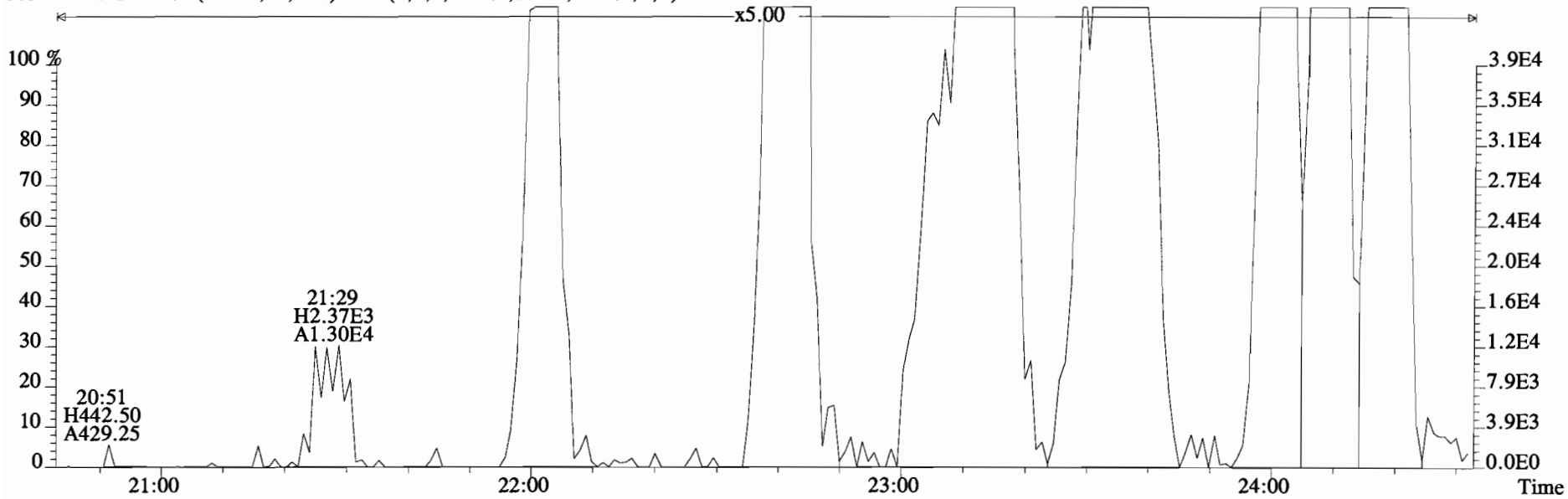
File:141027D1 #1-551 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
303.9016 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



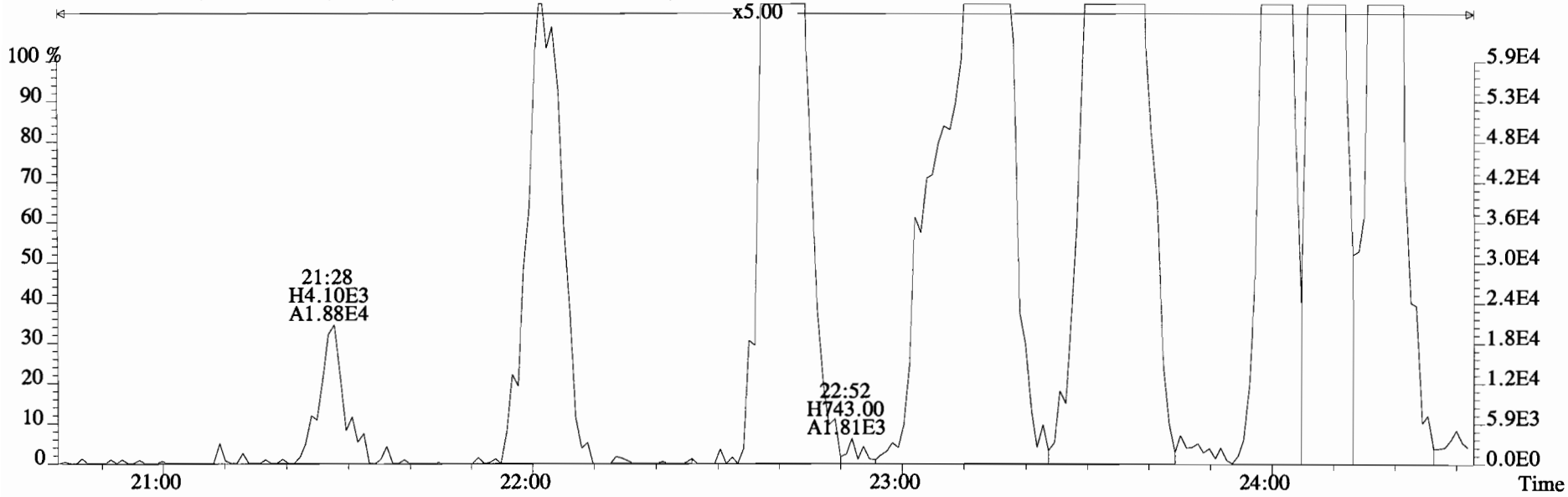
305.8987 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



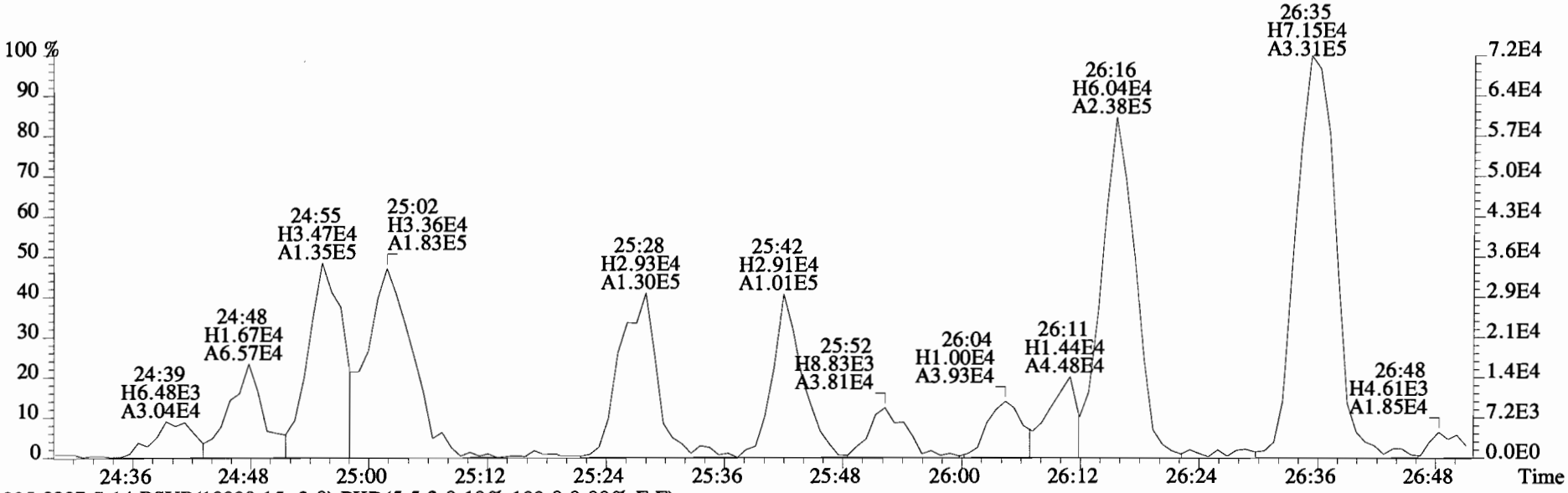
File:141027D1 #1-551 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
303.9016 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



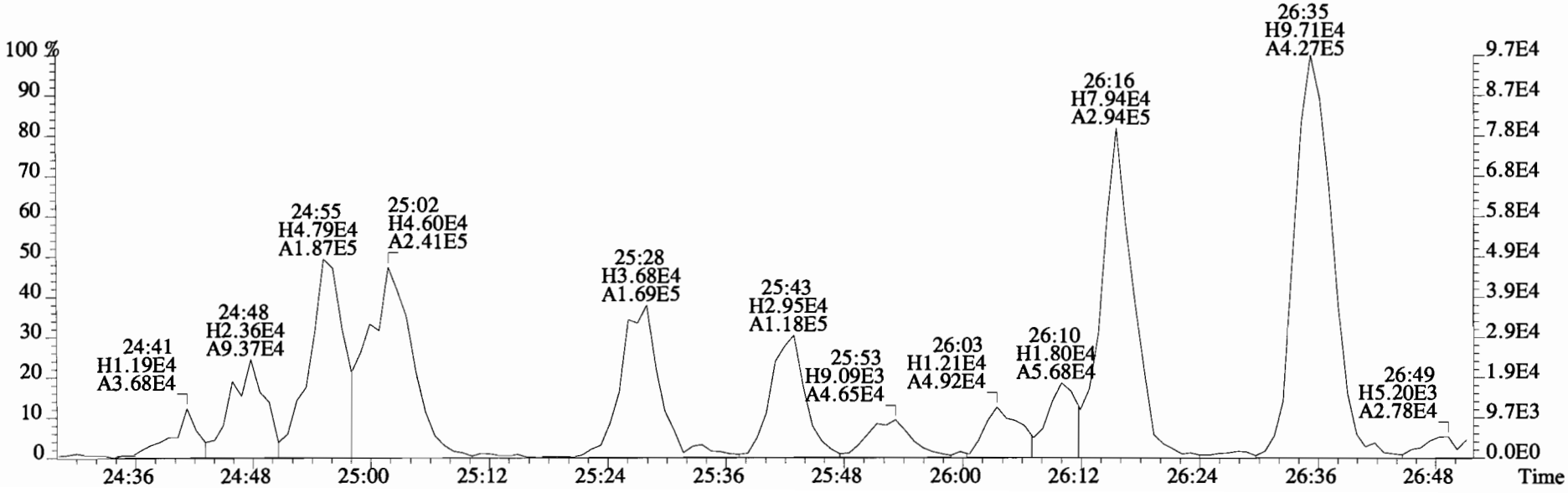
305.8987 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



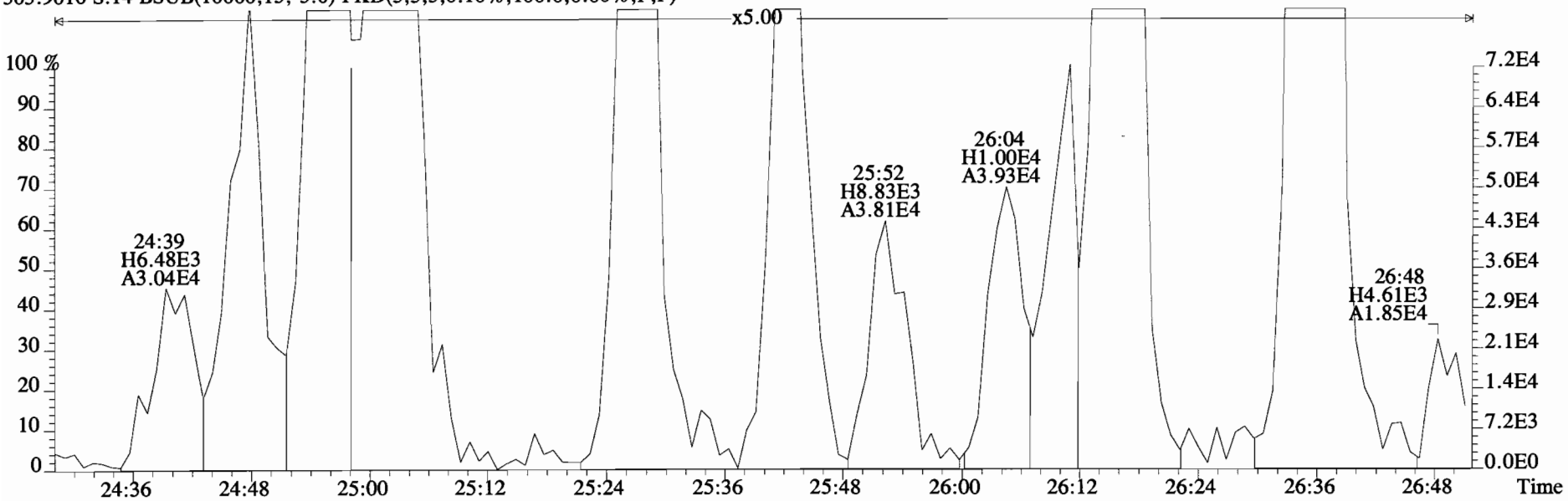
File:141027D1 #1-551 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
303.9016 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



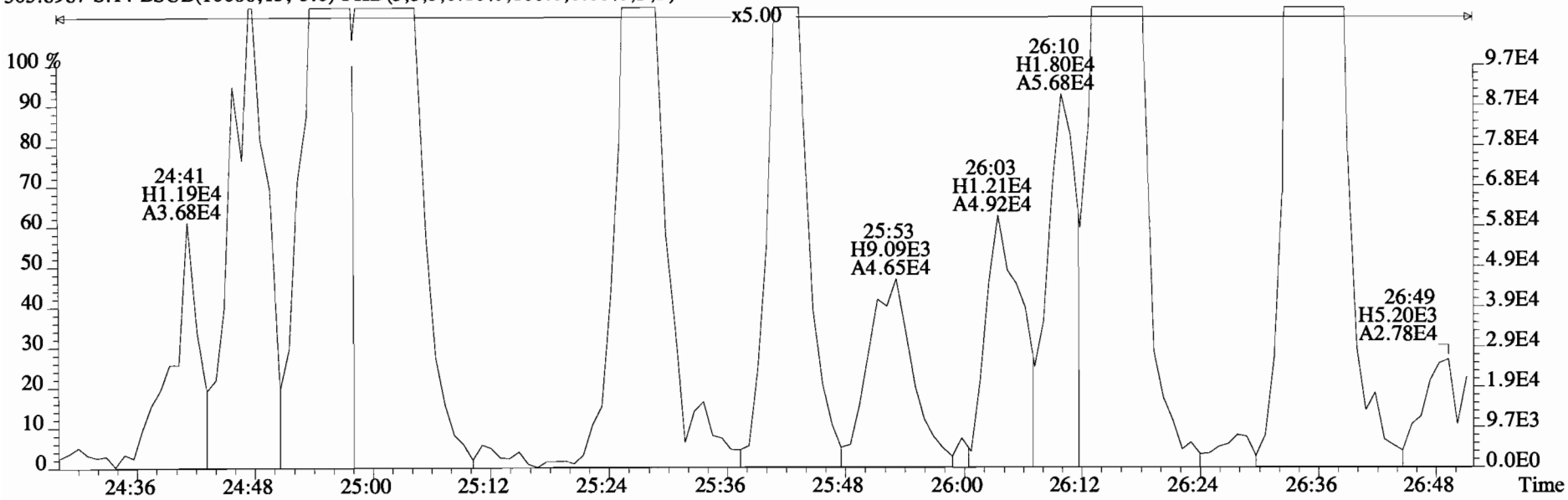
305.8987 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



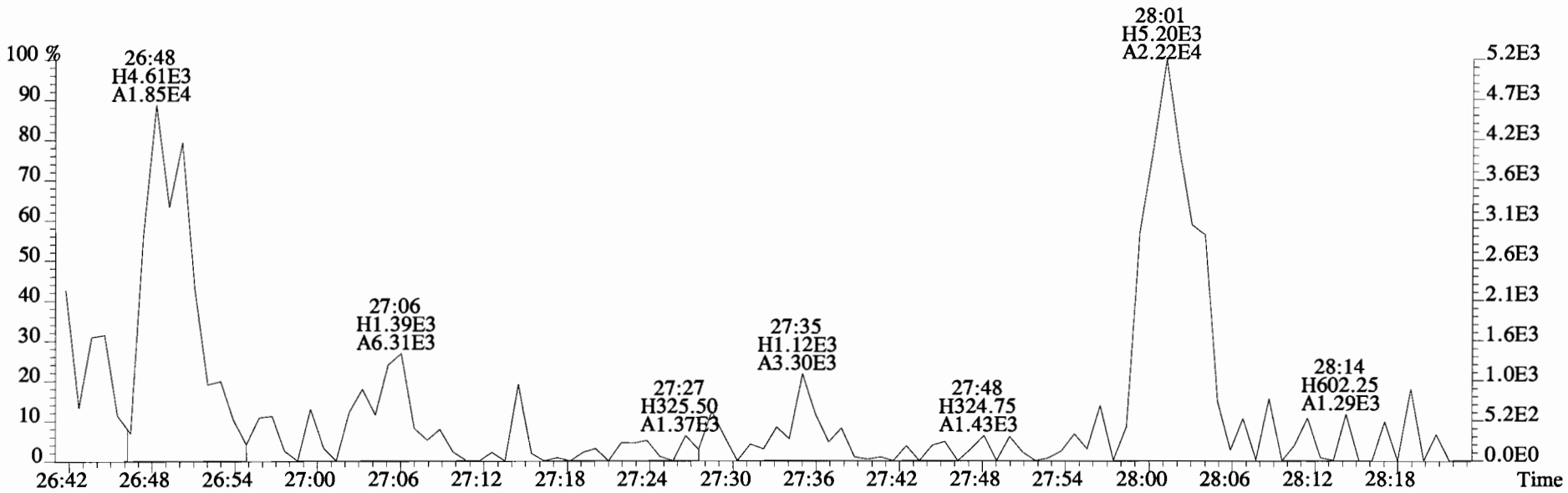
File:141027D1 #1-551 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
303.9016 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



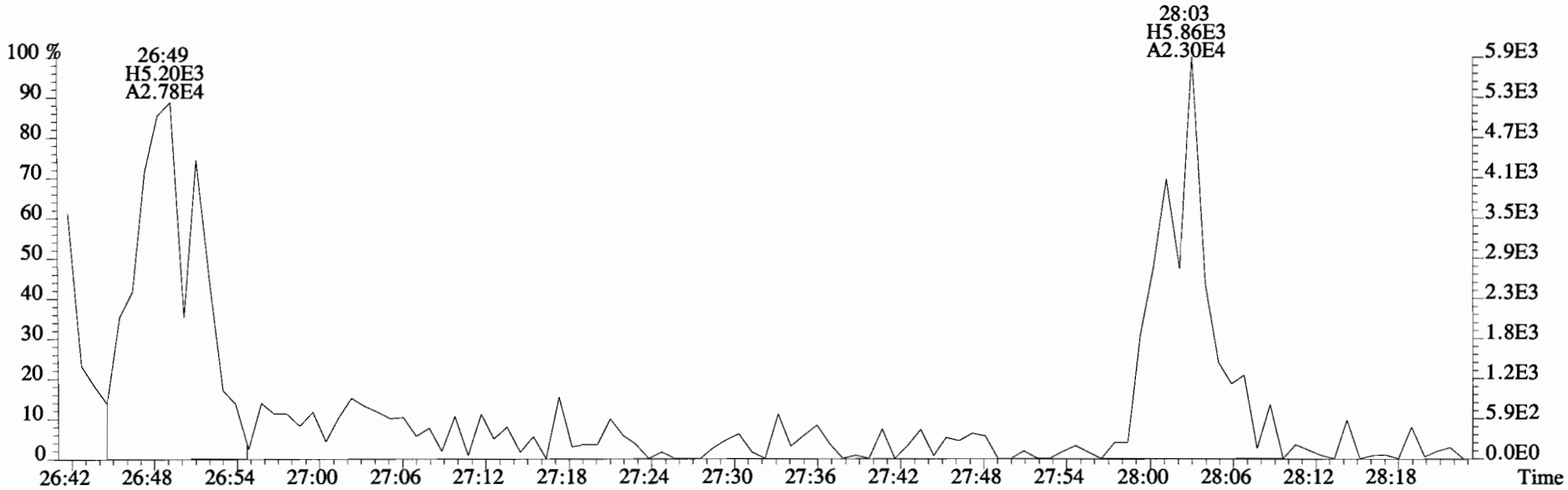
305.8987 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



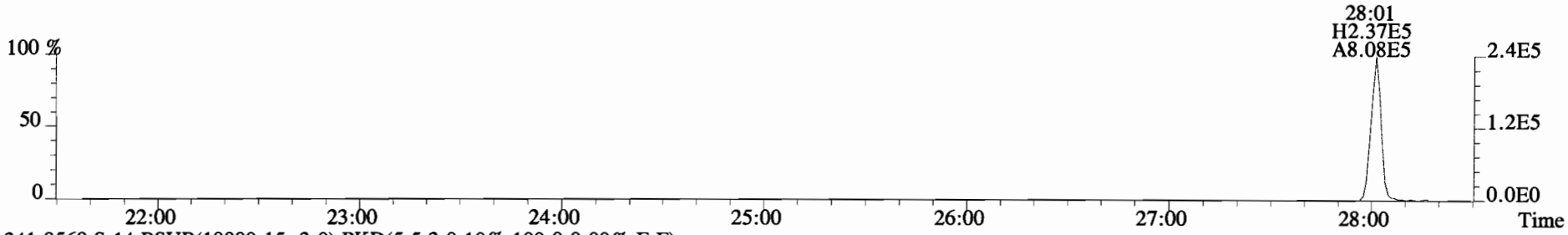
File:141027D1 #1-551 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
303.9016 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



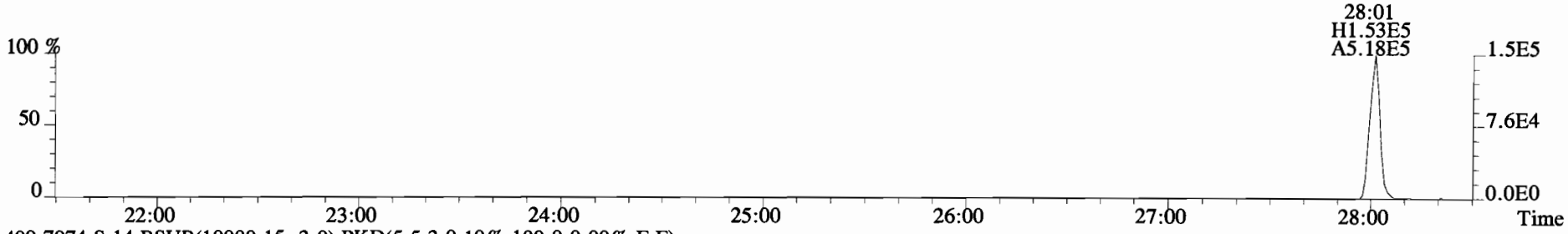
305.8987 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



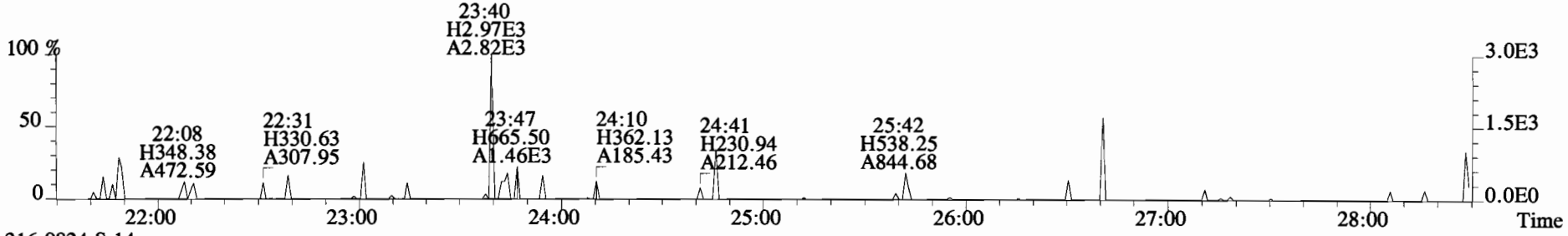
File:141027D1 #1-551 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
339.8597 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



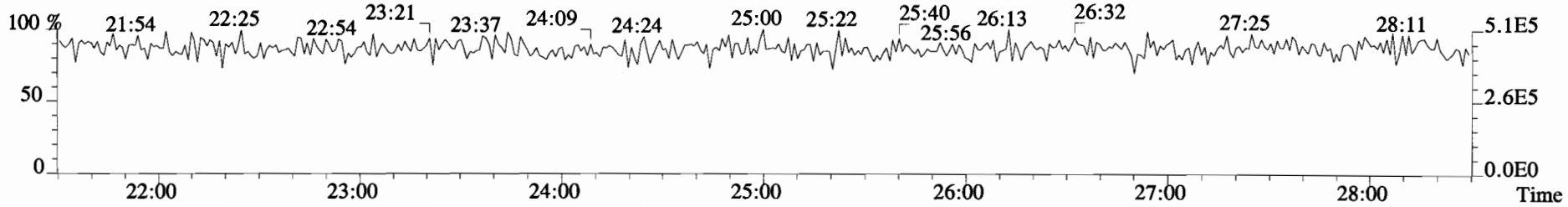
341.8568 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



409.7974 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

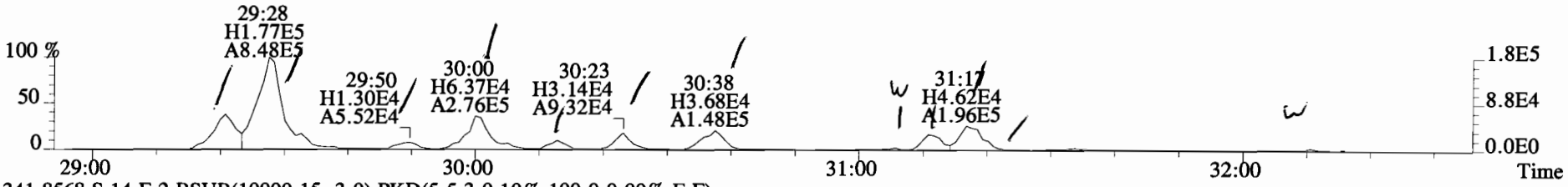


316.9824 S:14

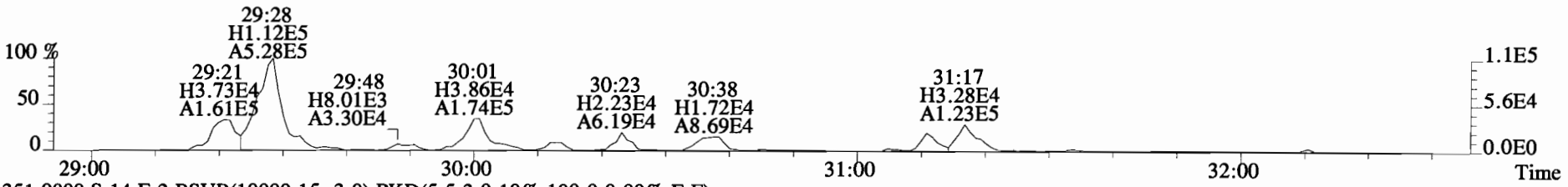


File:141027D1 #1-256 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5

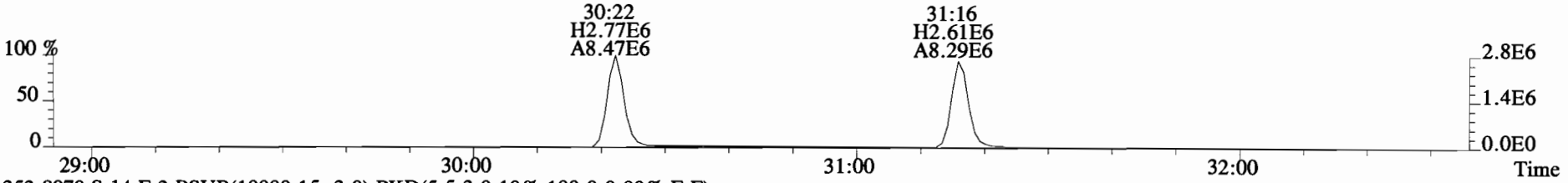
339.8597 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



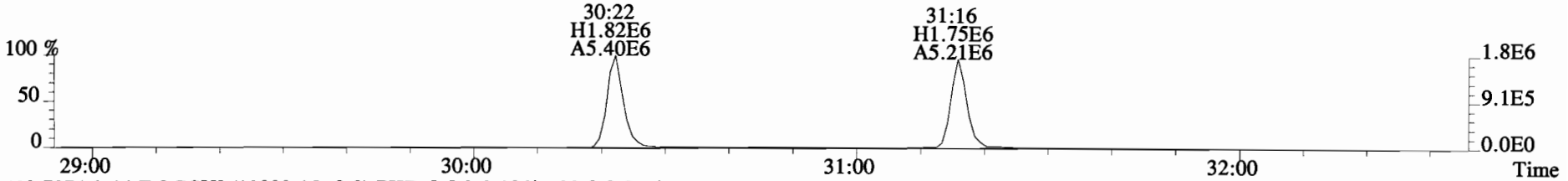
341.8568 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



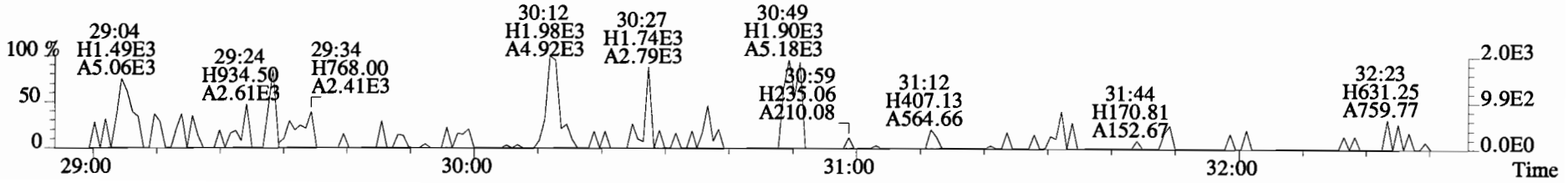
351.9000 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



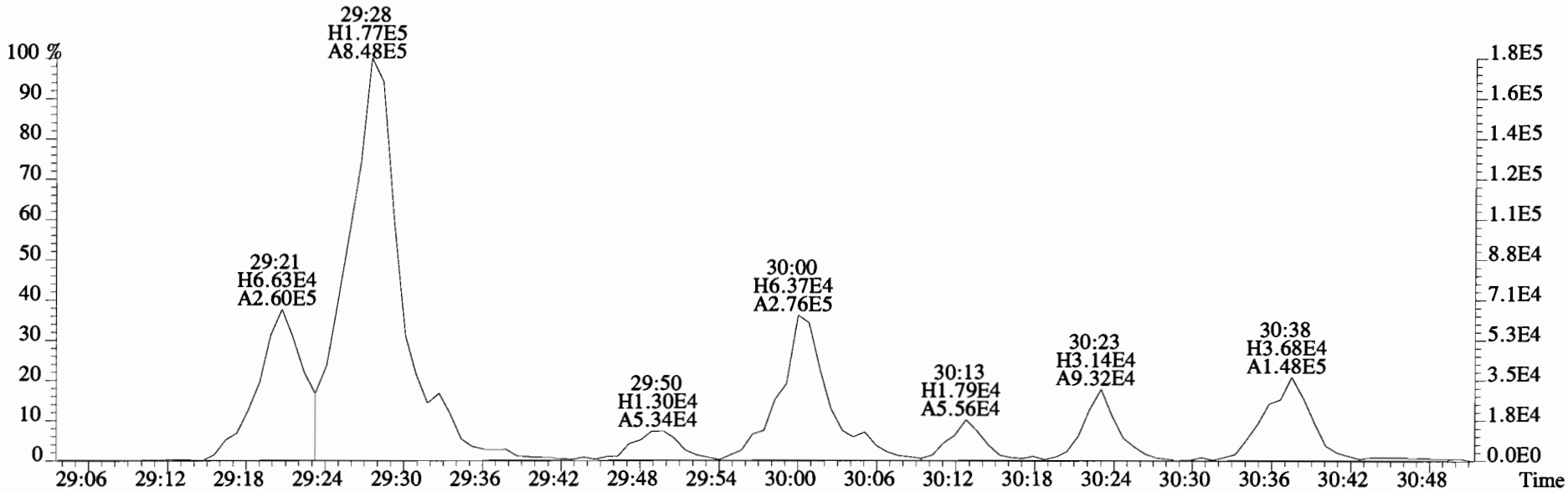
353.8970 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



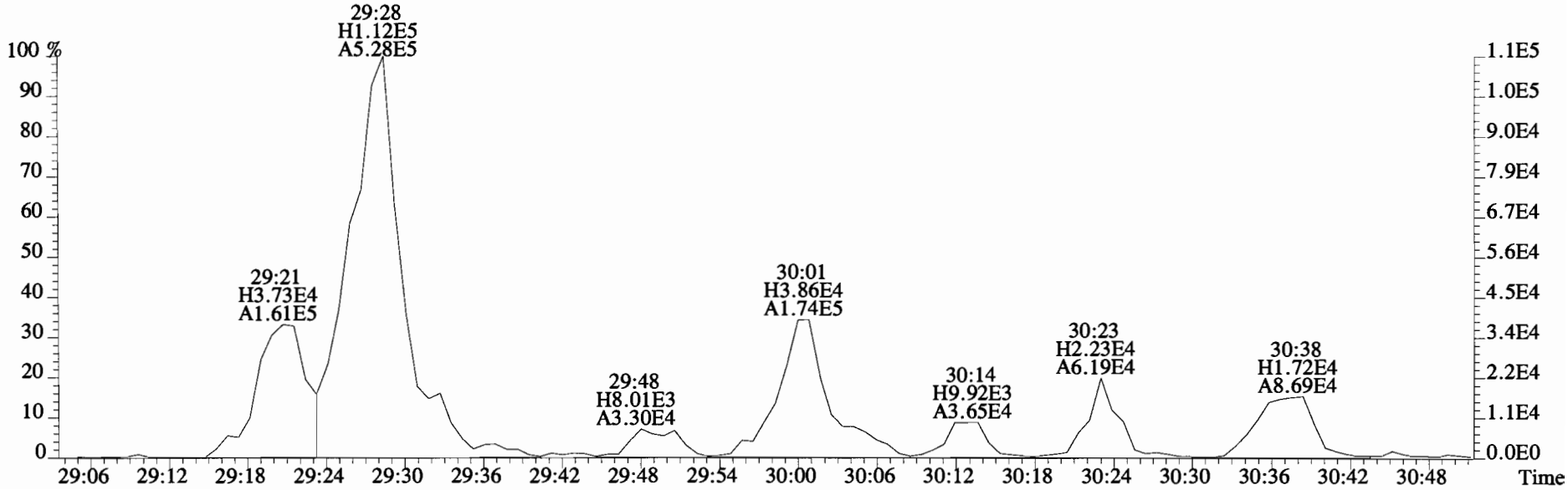
409.7974 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



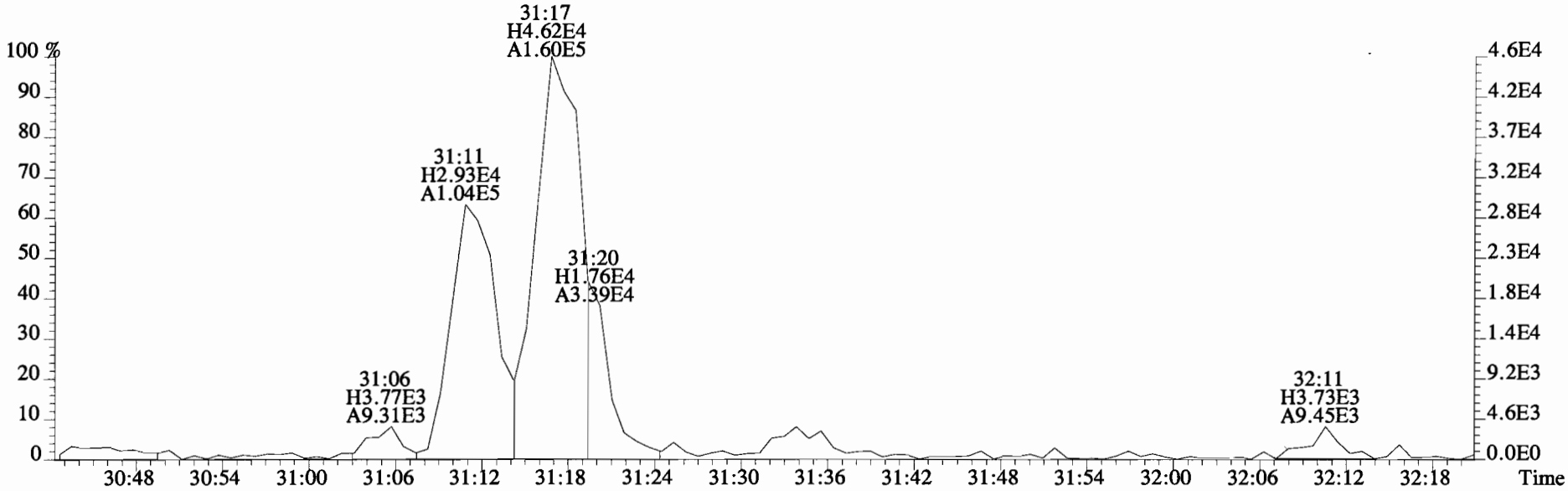
File:141027D1 #1-256 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
339.8597 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



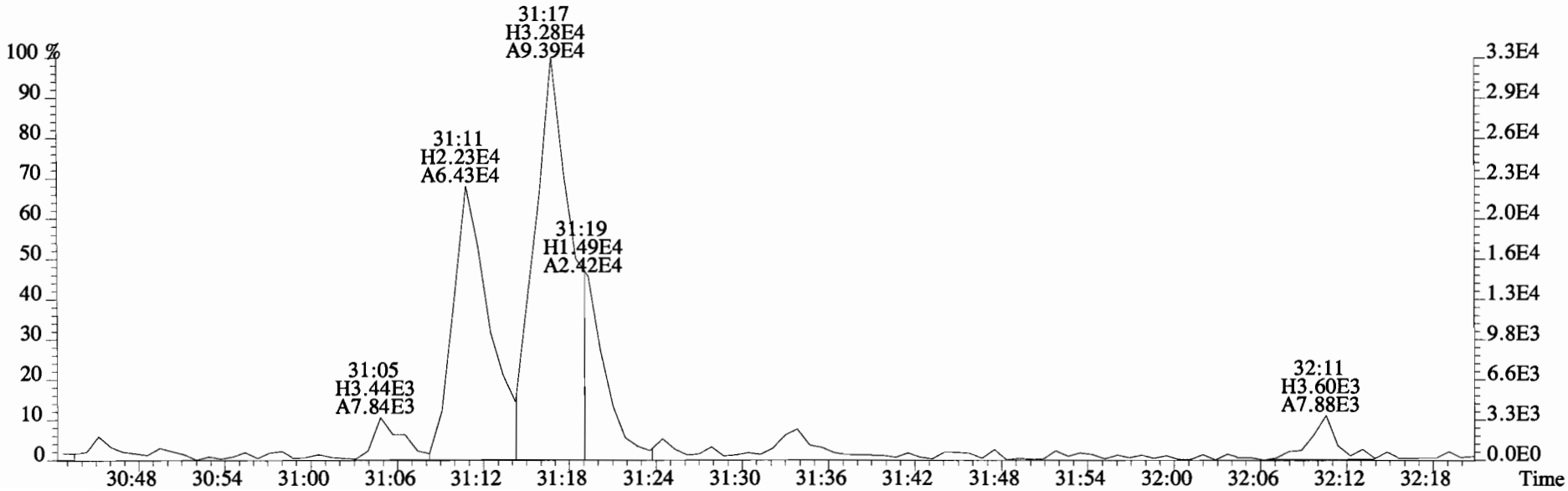
341.8568 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



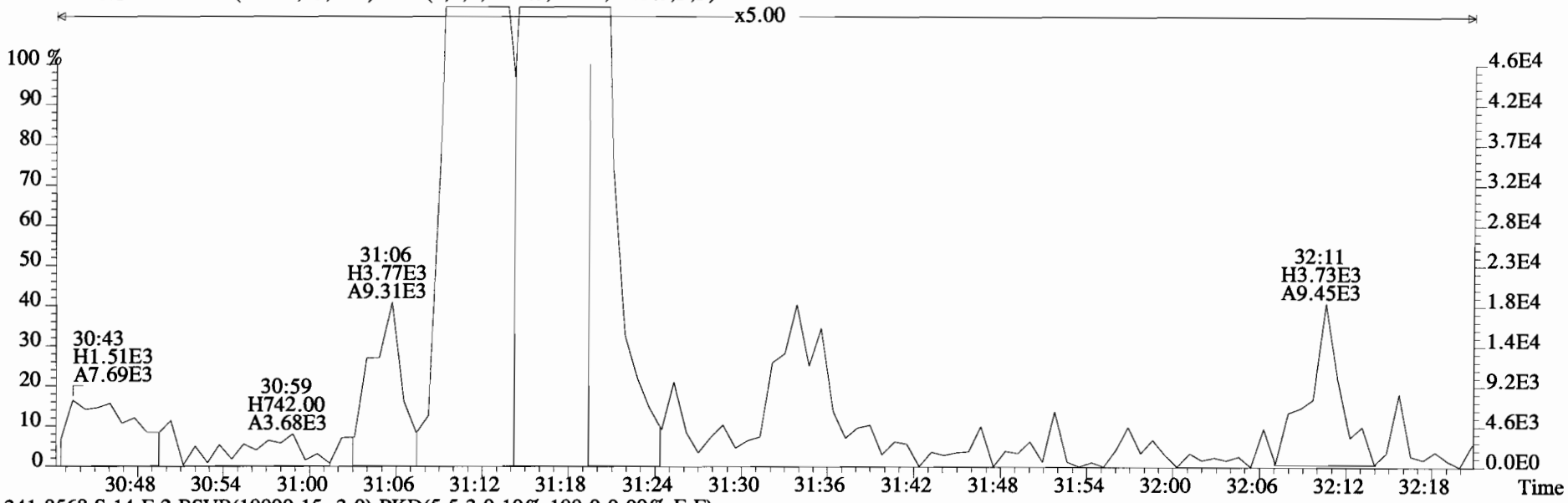
File:141027D1 #1-256 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
339.8597 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



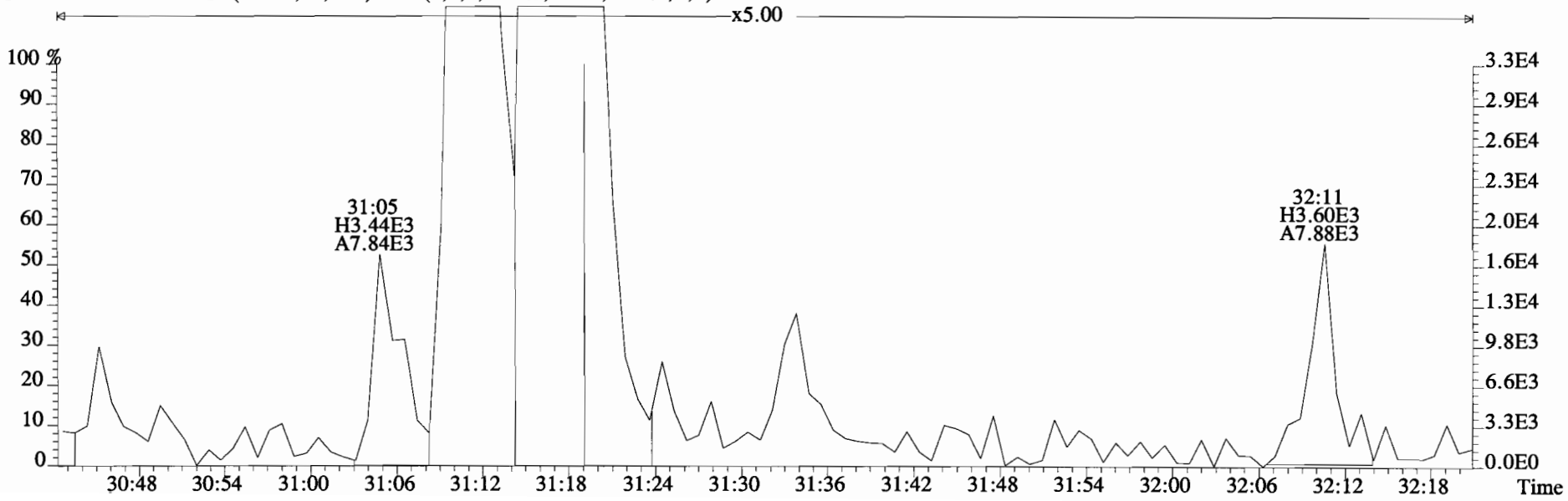
341.8568 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:141027D1 #1-256 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
339.8597 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

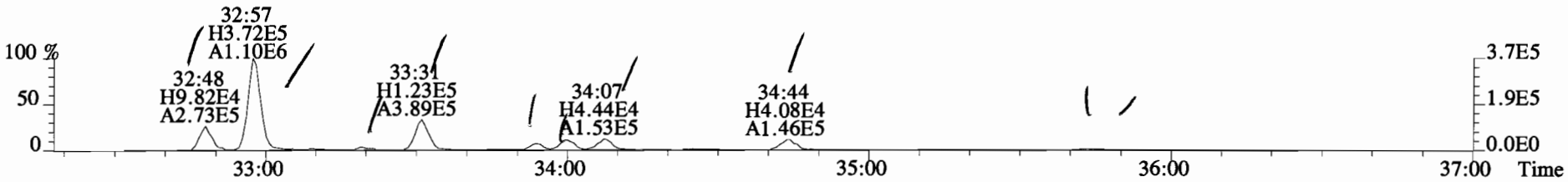


341.8568 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

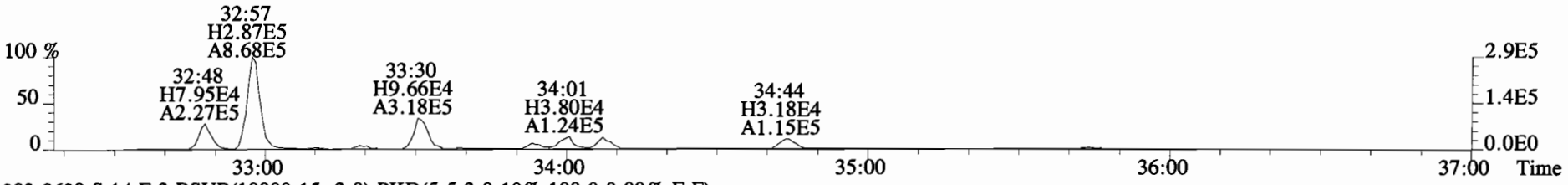


File:141027D1 #1-385 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5

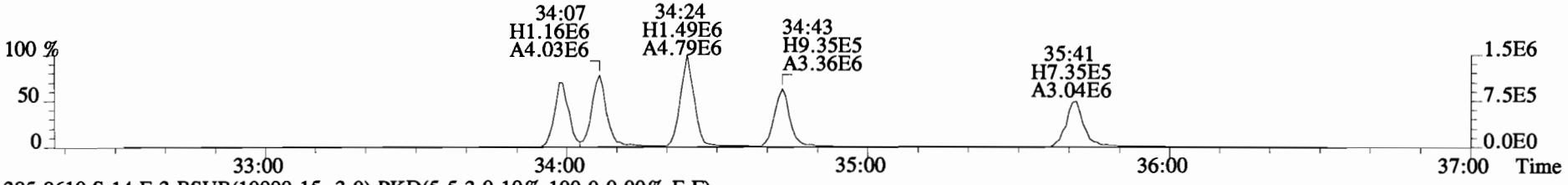
373.8207 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



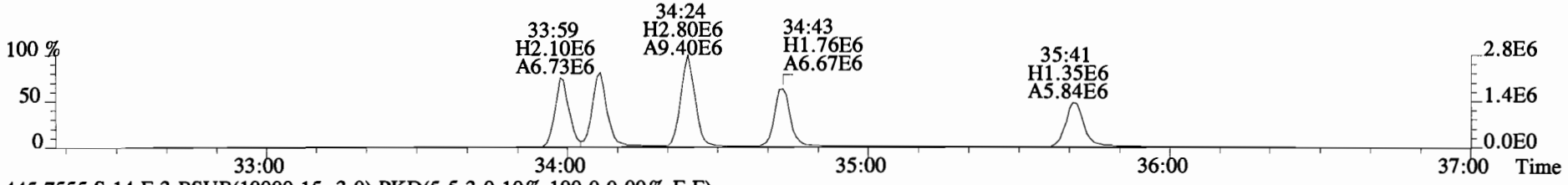
375.8178 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



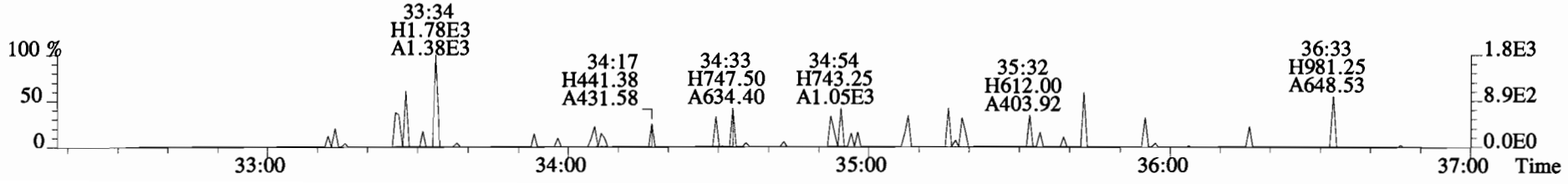
383.8639 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



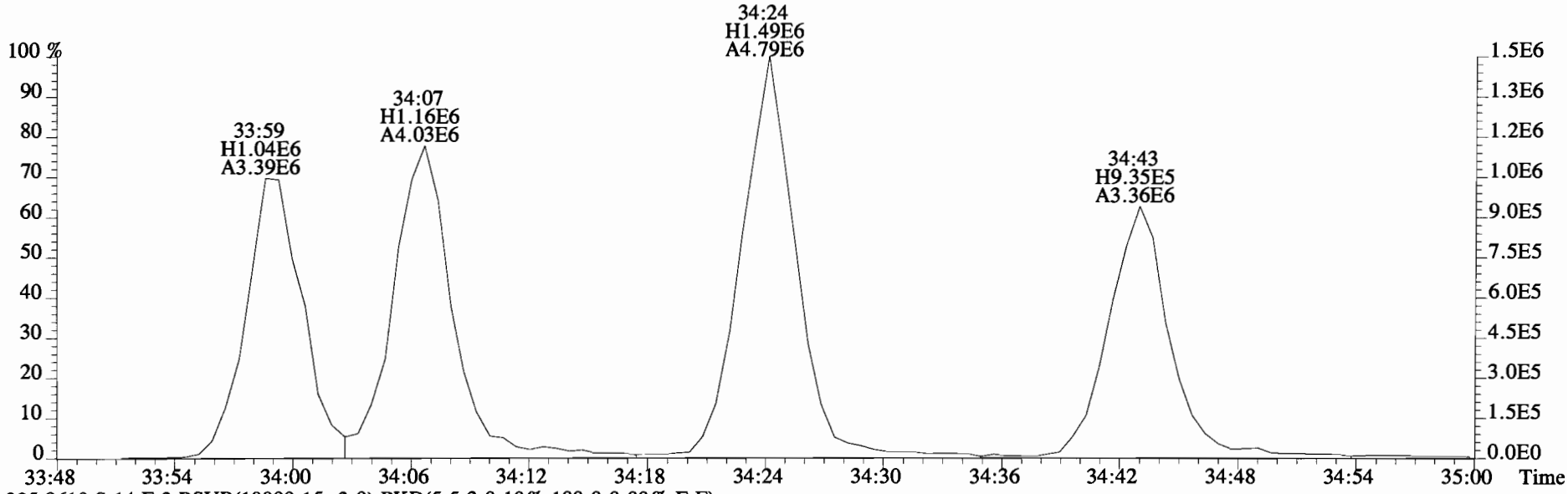
385.8610 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



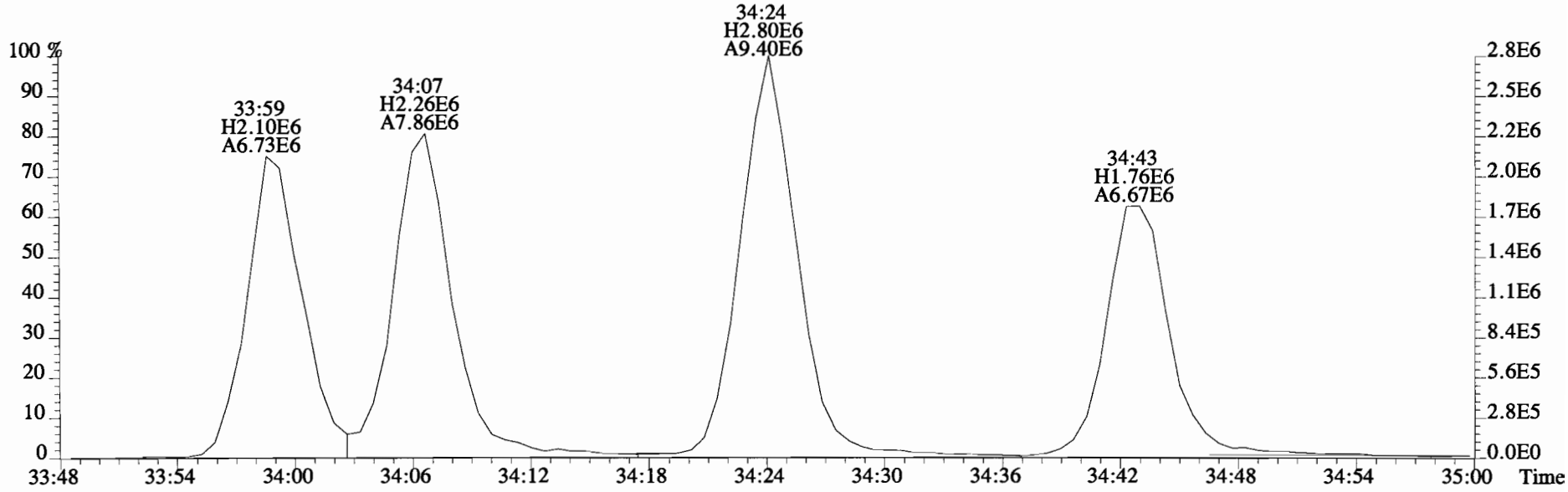
445.7555 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



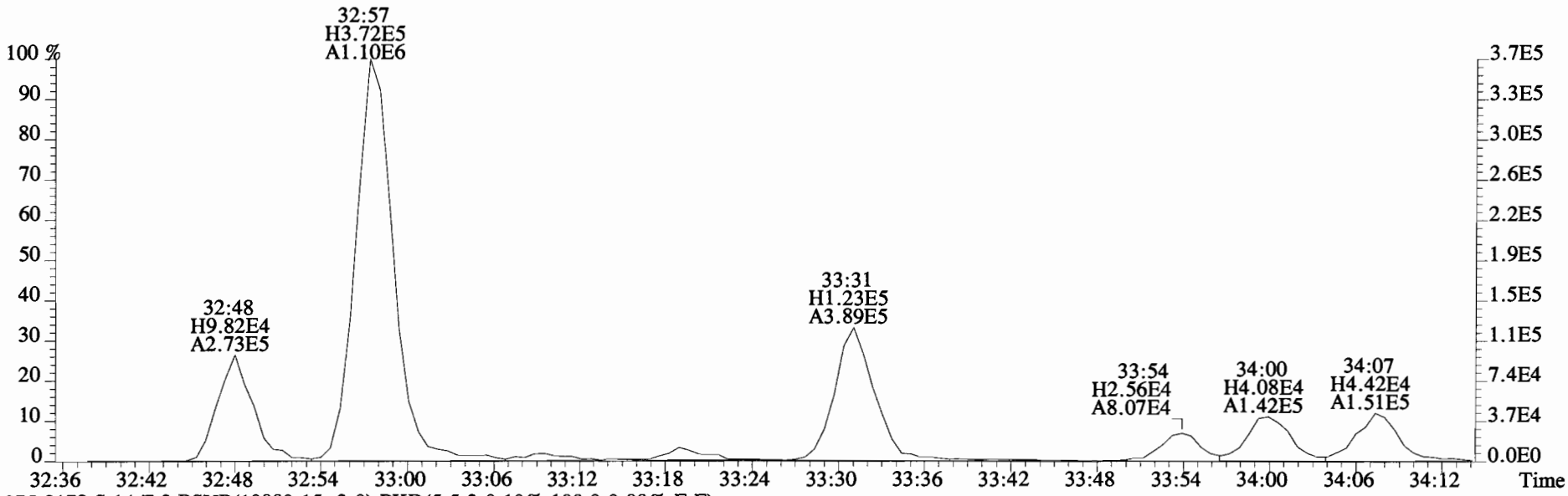
File:141027D1 #1-385 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
383.8639 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



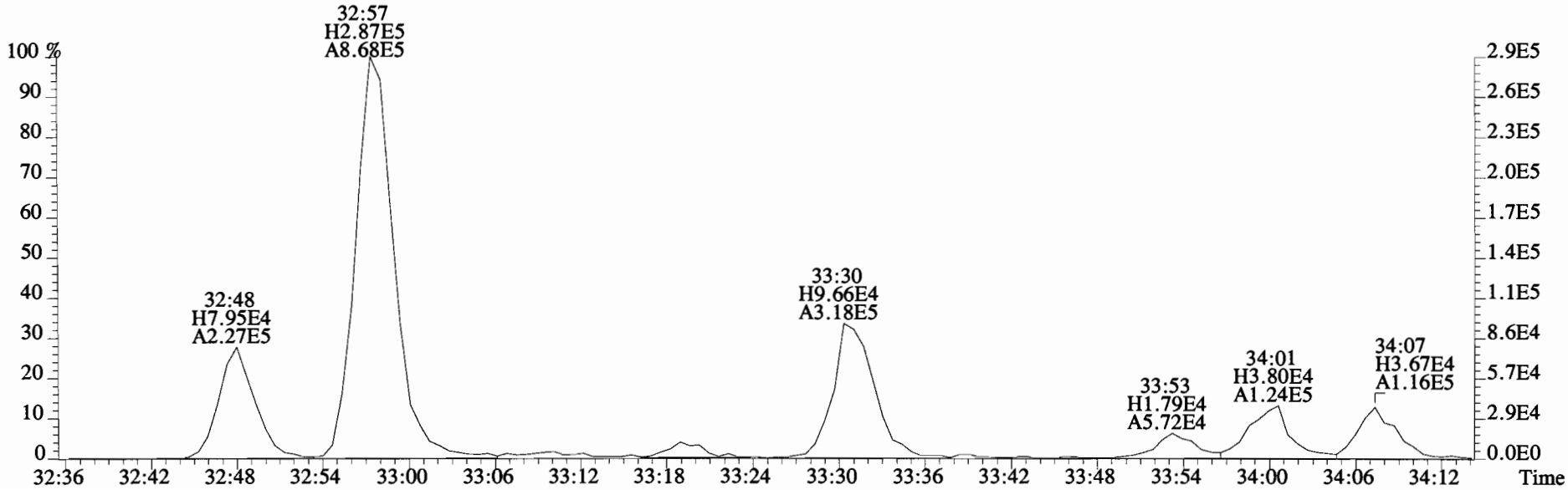
385.8610 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

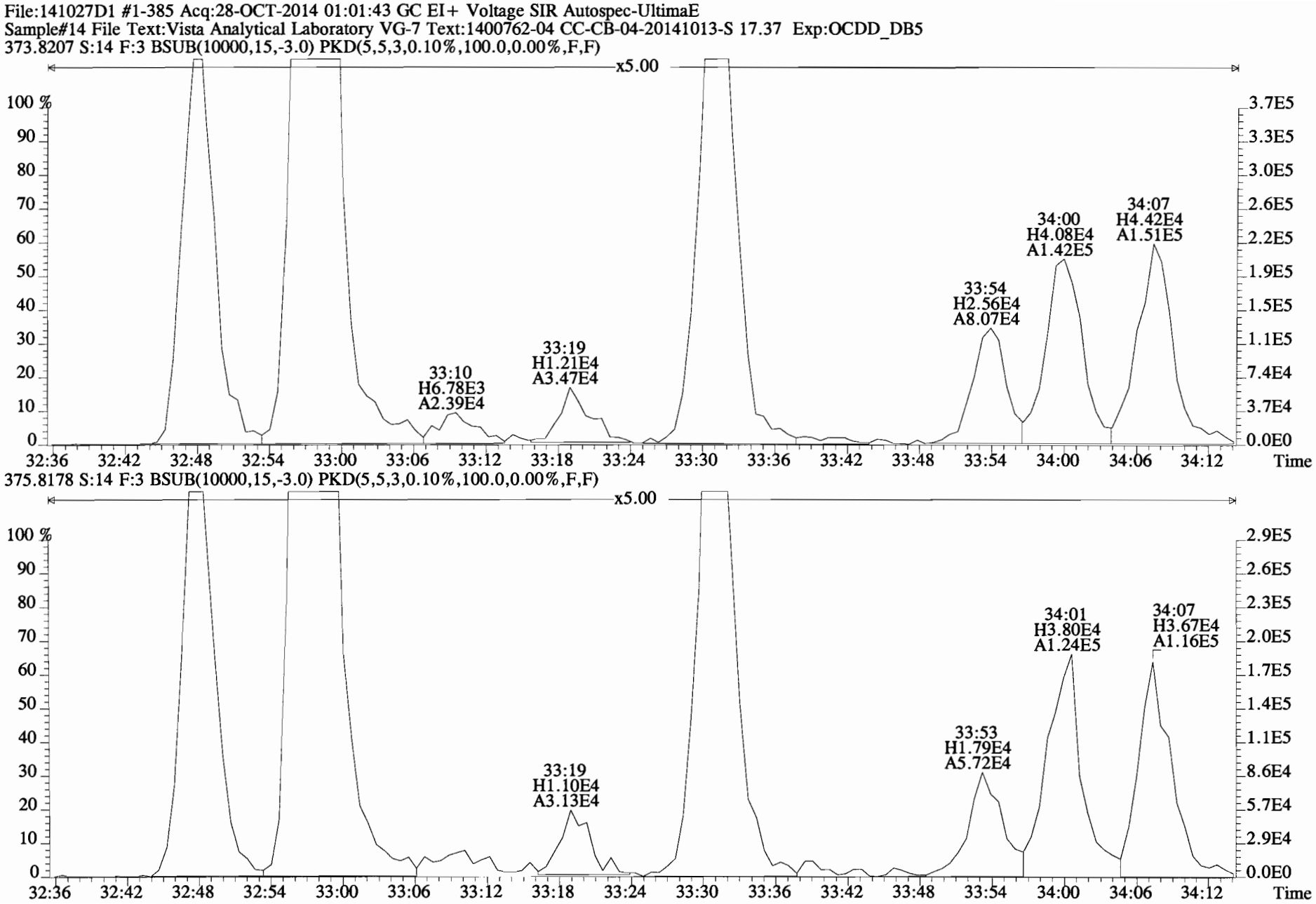


File:141027D1 #1-385 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
373.8207 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

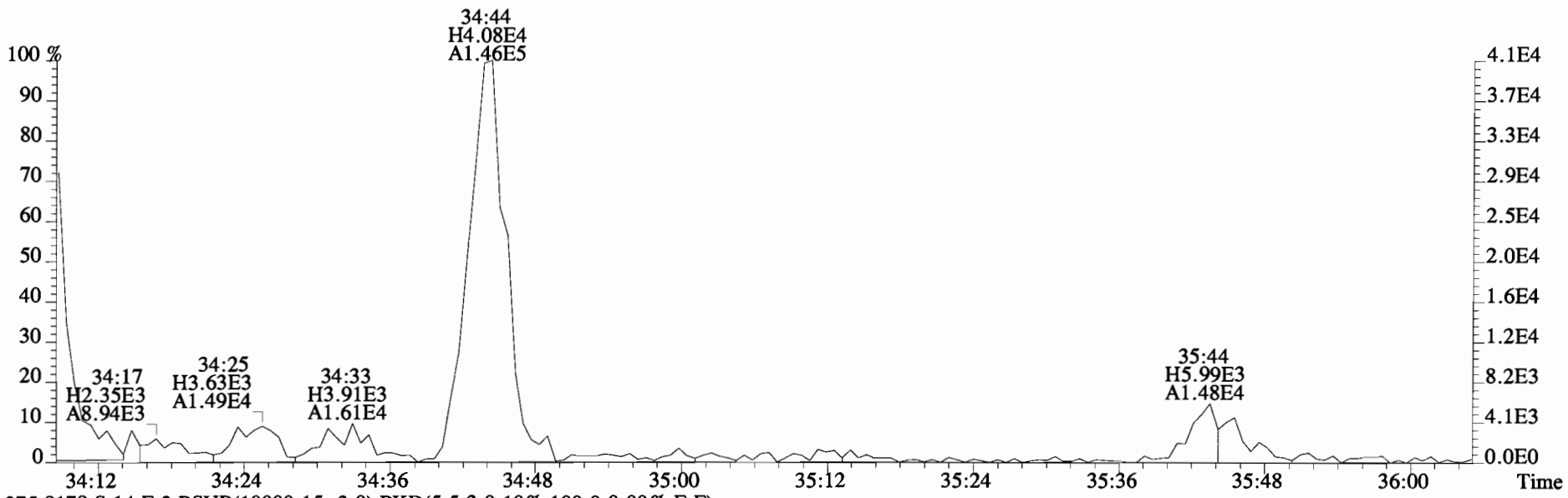


375.8178 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

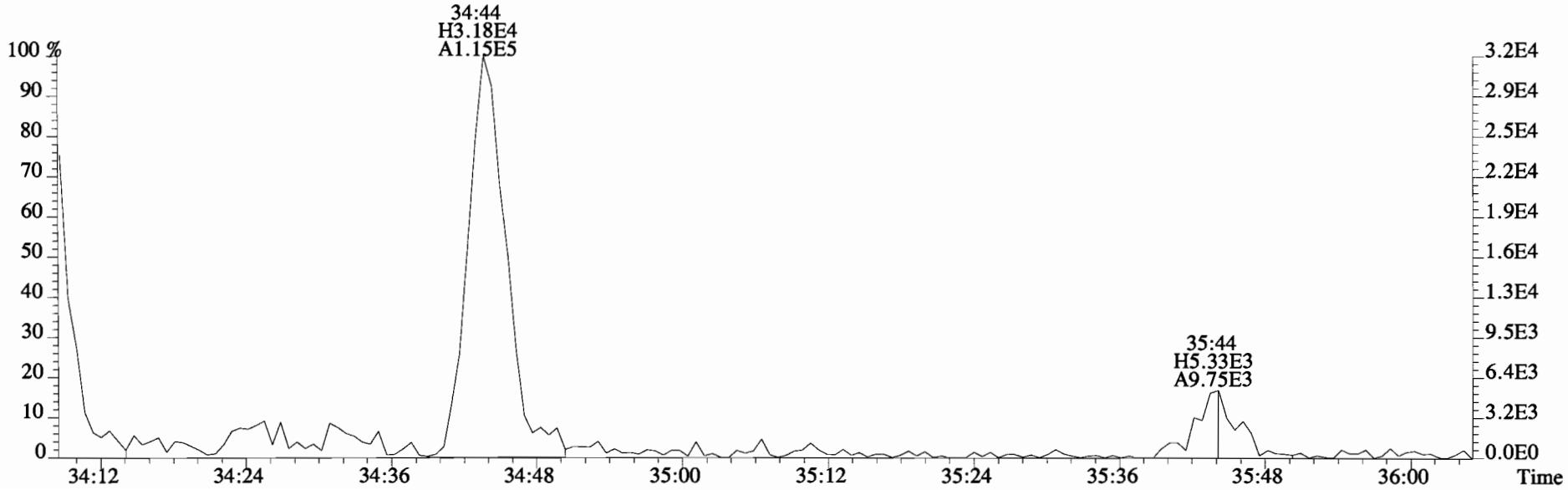



File:141027D1 #1-385 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
373.8207 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
x5.00
33:10 H6.78E3 A2.39E4
33:19 H1.21E4 A3.47E4
33:54 H2.56E4 A8.07E4
34:00 H4.08E4 A1.42E5
34:07 H4.42E4 A1.51E5
375.8178 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
x5.00
33:19 H1.10E4 A3.13E4
33:53 H1.79E4 A5.72E4
34:01 H3.80E4 A1.24E5
34:07 H3.67E4 A1.16E5
Time

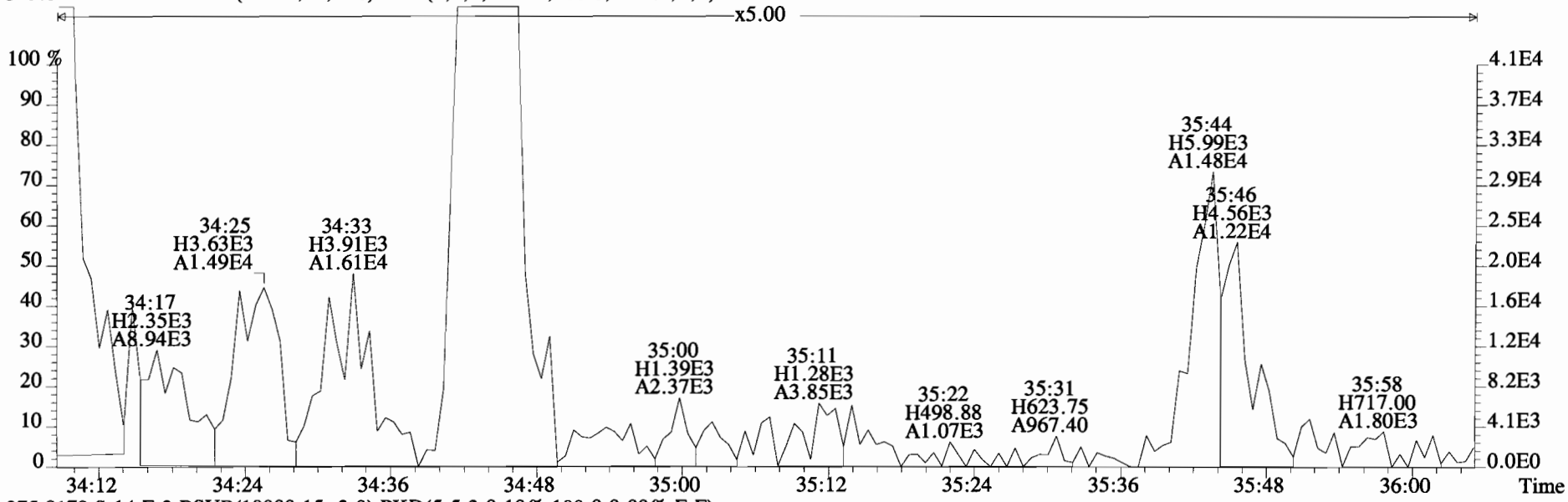
File:141027D1 #1-385 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
373.8207 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



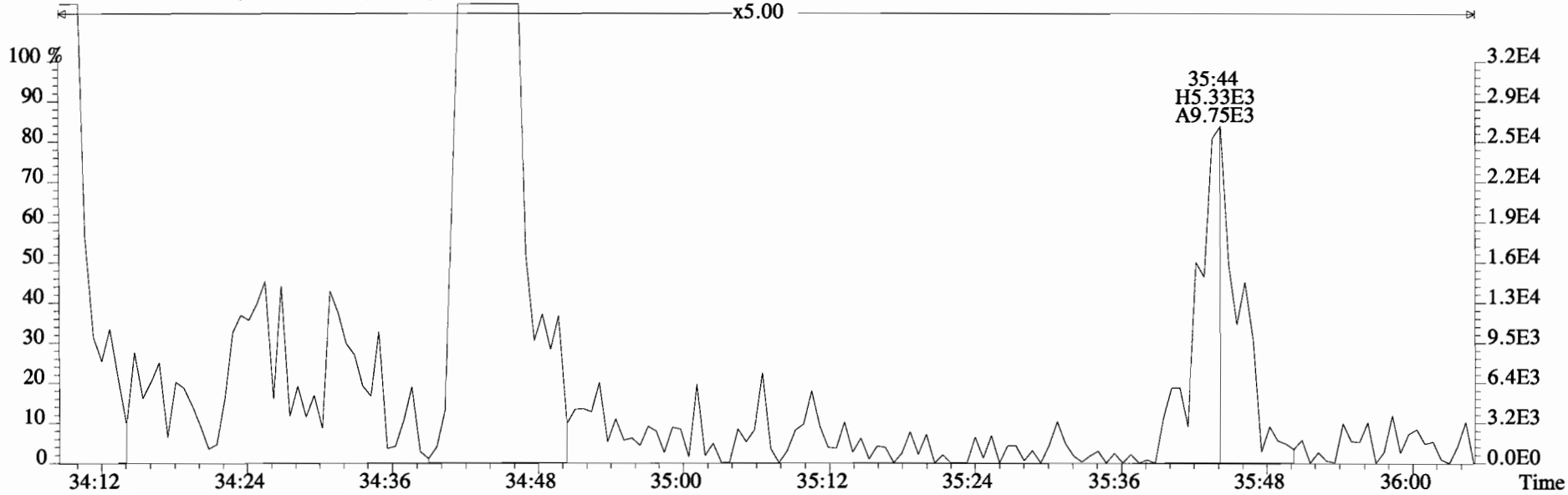
375.8178 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



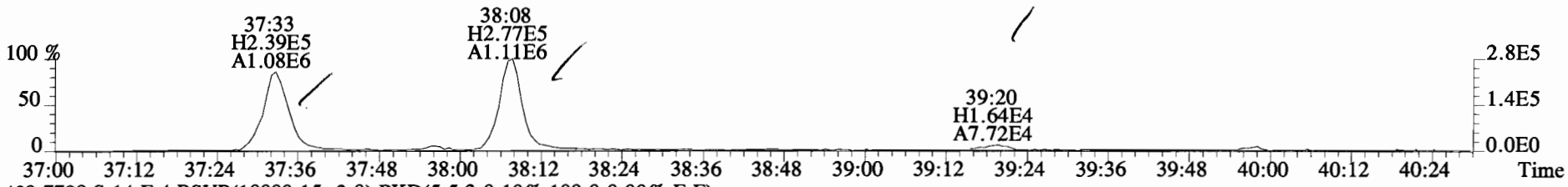
File:141027D1 #1-385 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
373.8207 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



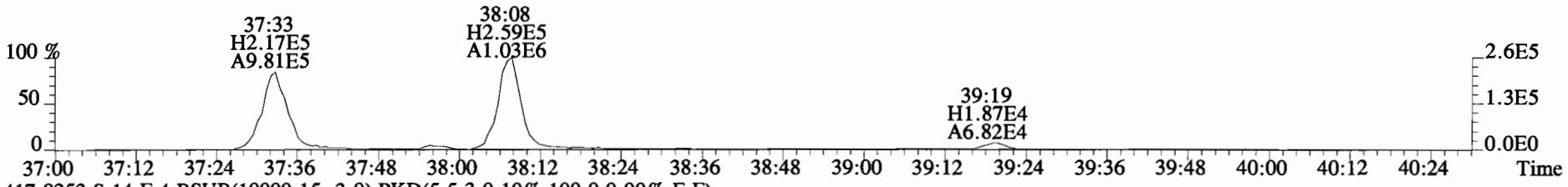
375.8178 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



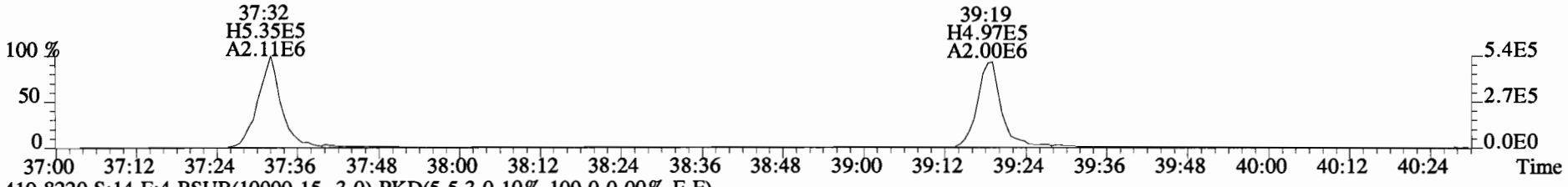
File:141027D1 #1-326 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
407.7818 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



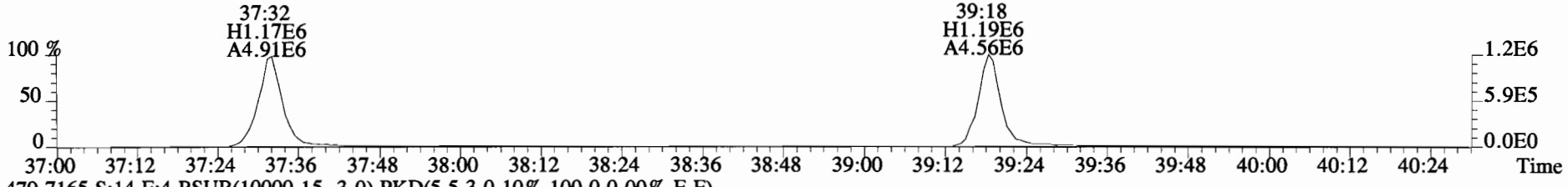
409.7788 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



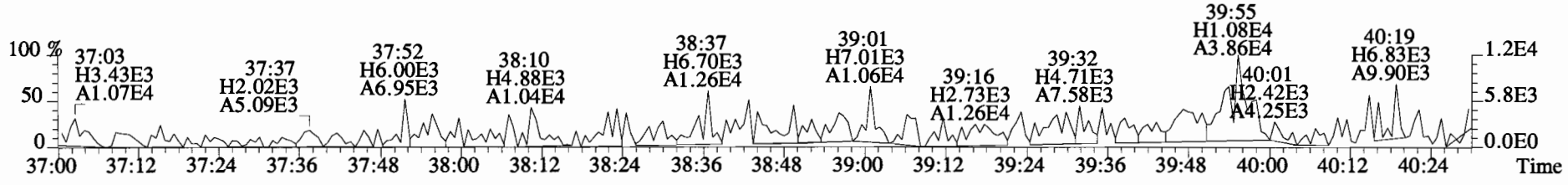
417.8253 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



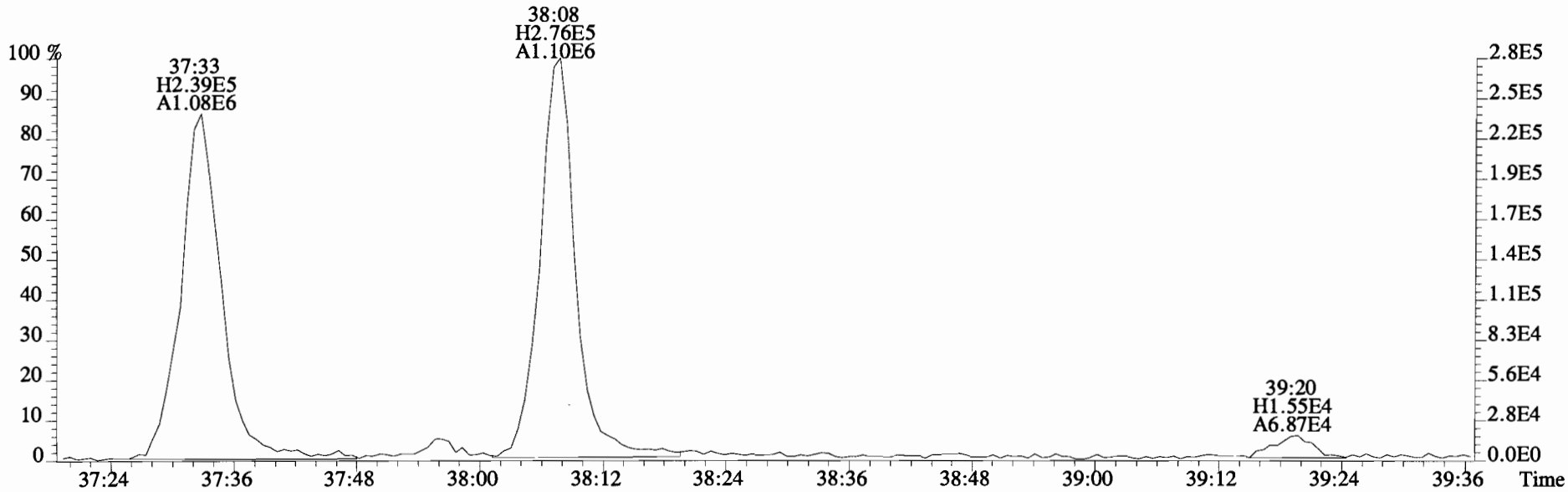
419.8220 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



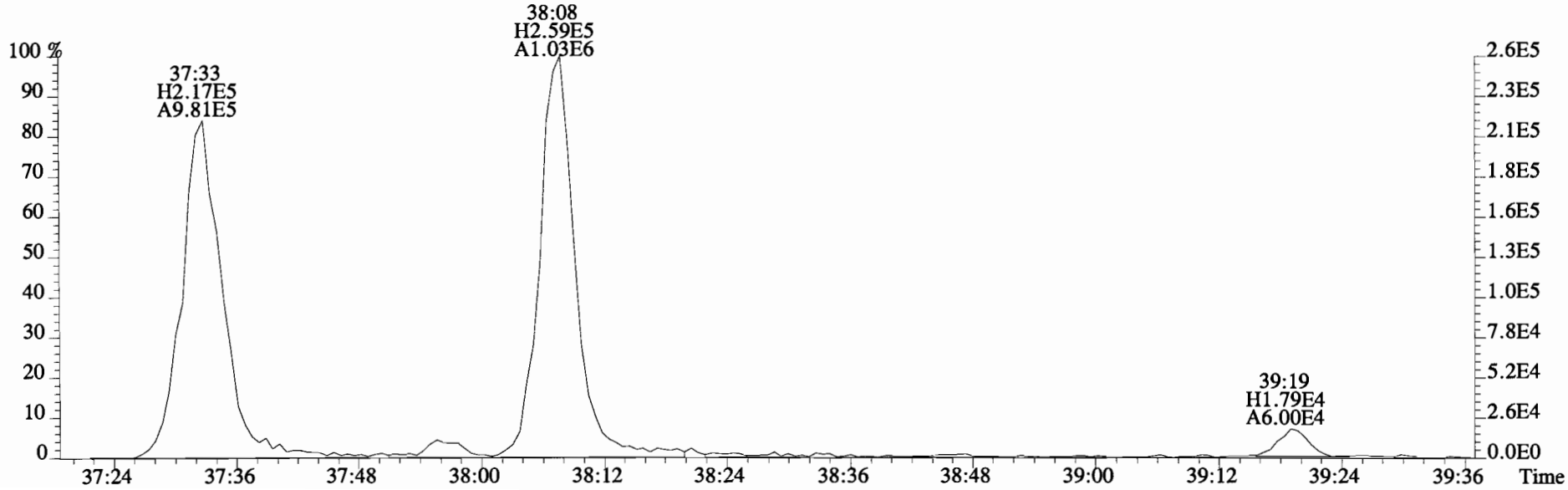
479.7165 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

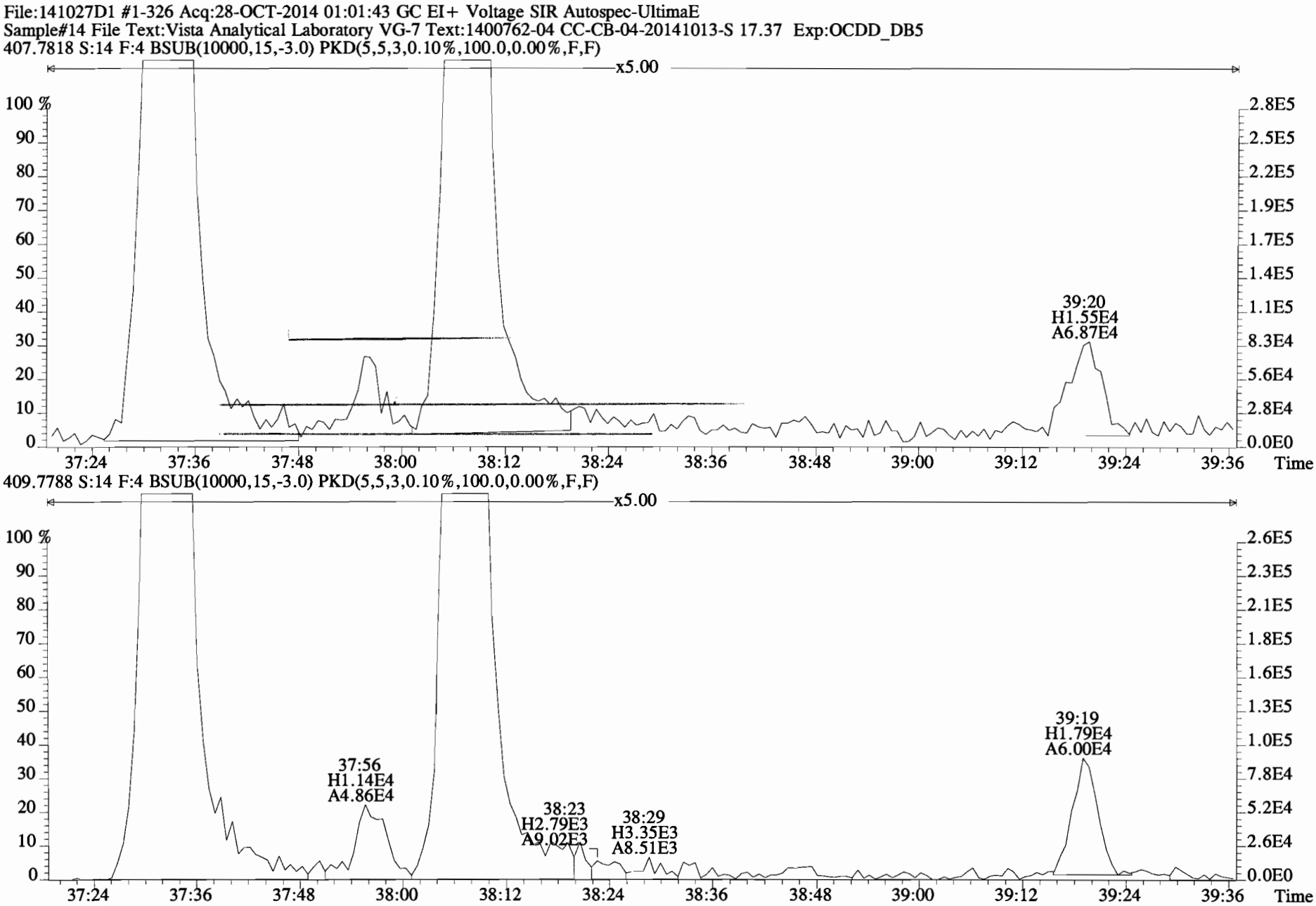


File:141027D1 #1-326 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
407.7818 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

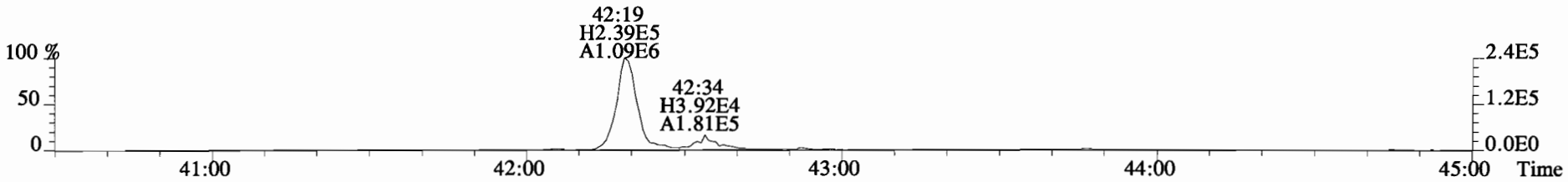


409.7788 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

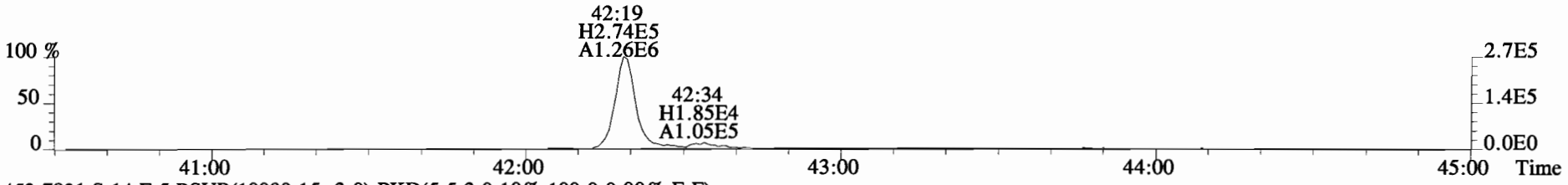



File:141027D1 #1-326 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
407.7818 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
x5.00
39:20
H1.55E4
A6.87E4
409.7788 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
x5.00
37:56
H1.14E4
A4.86E4
38:23
H2.79E3
A9.02E3
38:29
H3.35E3
A8.51E3
39:19
H1.79E4
A6.00E4
Time

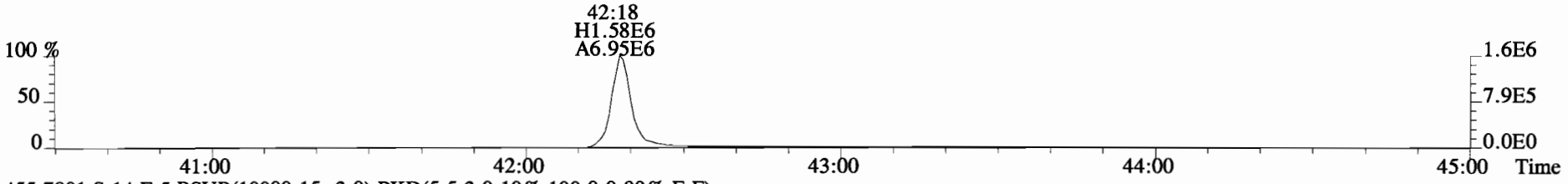
File:141027D1 #1-389 Acq:28-OCT-2014 01:01:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04 CC-CB-04-20141013-S 17.37 Exp:OCDD_DB5
441.7428 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



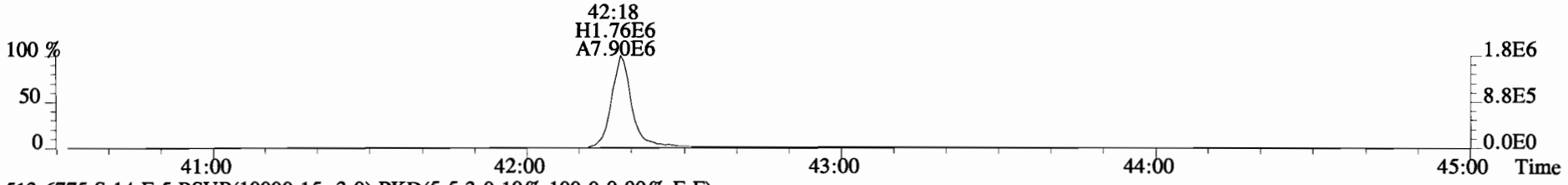
443.7398 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



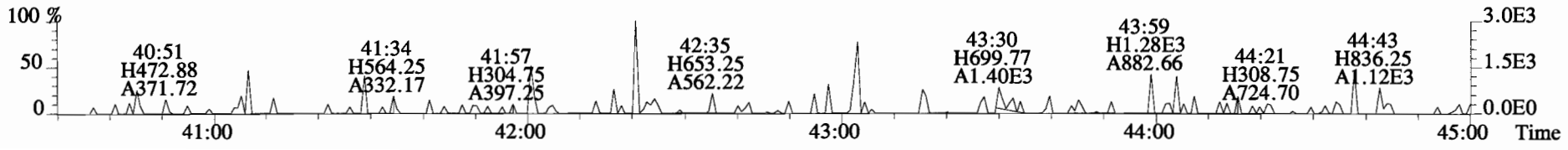
453.7831 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



	Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	6.19e+04	0.76 y	1.18	27:02	1.000	1.0456		*	2.5	*
	1,2,3,7,8-PeCDD	2.11e+05	0.58 y	0.92	31:33	1.000	3.9639		*	2.5	*
	1,2,3,4,7,8-HxCDD	2.78e+05	1.24 y	1.09	34:54	1.000	5.9048		*	2.5	*
	1,2,3,6,7,8-HxCDD	8.50e+05	1.24 y	1.07	35:01	1.001	12.846		*	2.5	*
	1,2,3,7,8,9-HxCDD	5.66e+05	1.31 y	0.93	35:19	1.001	11.285		*	2.5	*
	1,2,3,4,6,7,8-HpCDD	1.24e+07	1.02 y	1.12	38:46	1.000	289.31		*	2.5	*
	OCDD	1.03e+08	0.89 y	0.95	42:06	1.000	2747.7		*	2.5	*
	2,3,7,8-TCDF	1.46e+06	0.77 y	1.08	26:16	1.001	18.334	ok	*	2.5	*
	1,2,3,7,8-PeCDF	3.75e+05	1.55 y	1.09	30:23	1.000	4.3958		*	2.5	*
	2,3,4,7,8-PeCDF	6.24e+05	1.46 y	1.04	31:16	1.000	8.0295		*	2.5	*
	1,2,3,4,7,8-HxCDF	6.82e+05	1.27 y	1.39	33:59	1.000	8.0255		*	2.5	*
	1,2,3,6,7,8-HxCDF	4.98e+05	1.24 y	1.26	34:07	1.000	5.7840		*	2.5	*
	2,3,4,6,7,8-HxCDF	5.36e+05	1.33 y	1.30	34:44	1.000	6.7765		*	2.5	*
	1,2,3,7,8,9-HxCDF	7.23e+04	1.38 y	1.19	35:42	1.000	1.0280		*	2.5	*
	1,2,3,4,6,7,8-HpCDF	4.07e+06	1.09 y	1.62	37:33	1.000	59.076		*	2.5	*
	1,2,3,4,7,8,9-HpCDF	3.06e+05	1.18 y	1.53	39:19	1.000	5.3343		*	2.5	*
	OCDF	5.78e+06	0.88 y	1.10	42:19	1.000	130.44		*	2.5	*

	Name	Resp	RA	RRF	RT	RRT	Conc	Rec	Qual
IS	13C-2,3,7,8-TCDD	9.98e+06	0.78 y	1.07	27:01	1.022	176.73	88.5	
IS	13C-1,2,3,7,8-PeCDD	1.16e+07	0.64 y	1.24	31:33	1.193	177.82	89.1	
IS	13C-1,2,3,4,7,8-HxCDD	8.64e+06	1.29 y	0.72	34:53	1.014	155.31	77.8	
IS	13C-1,2,3,6,7,8-HxCDD	1.24e+07	1.25 y	0.74	34:60	1.017	219.26	110	
IS	13C-1,2,3,7,8,9-HxCDD	1.08e+07	1.30 y	0.86	35:18	1.026	163.73	82.0	
IS	13C-1,2,3,4,6,7,8-HpCDD	7.68e+06	1.04 y	0.64	38:45	1.127	155.34	77.8	
IS	13C-OCDD	1.58e+07	0.87 y	0.78	42:05	1.223	262.38	65.7	
IS	13C-2,3,7,8-TCDF	1.48e+07	0.78 y	0.92	26:15	0.992	183.12	91.7	
IS	13C-1,2,3,7,8-PeCDF	1.56e+07	1.58 y	0.95	30:22	1.148	188.32	94.3	
IS	13C-2,3,4,7,8-PeCDF	1.49e+07	1.62 y	0.97	31:16	1.182	175.88	88.1	
IS	13C-1,2,3,4,7,8-HxCDF	1.22e+07	0.52 y	0.99	33:59	0.988	160.48	80.4	
IS	13C-1,2,3,6,7,8-HxCDF	1.36e+07	0.53 y	1.10	34:07	0.992	161.69	81.0	
IS	13C-2,3,4,6,7,8-HxCDF	1.22e+07	0.51 y	1.03	34:43	1.009	153.51	76.9	
IS	13C-1,2,3,7,8,9-HxCDF	1.18e+07	0.50 y	0.86	35:42	1.037	178.92	89.6	
IS	13C-1,2,3,4,6,7,8-HpCDF	8.50e+06	0.44 y	0.71	37:32	1.091	155.17	77.7	
IS	13C-1,2,3,4,7,8,9-HpCDF	7.51e+06	0.43 y	0.71	39:19	1.143	138.11	69.2	
IS	13C-OCDF	1.61e+07	0.91 y	0.87	42:19	1.230	239.44	60.0	
C/Up	37Cl-2,3,7,8-TCDD	4.68e+06		1.21	27:02	1.022	73.445	92.0	
RS/RT	13C-1,2,3,4-TCDD	1.05e+07	0.78 y	1.00	26:27	*	199.65		
RS	13C-1,2,3,4-TCDF	1.74e+07	0.77 y	1.00	25:01	*	199.65		
RS/RT	13C-1,2,3,4,6,9-HxCDF	1.53e+07	0.51 y	1.00	34:24	*	199.65		

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	30.4	31.7		*	*
Total Penta-Dioxins	48.3	48.3		*	*
Total Hexa-Dioxins	148	148		*	*
Total Hepta-Dioxins	635	635		*	*
Total Tetra-Furans	155	167		*	*
Total Penta-Furans	115.15	115.63		*	*
Total Hexa-Furans	100	100		*	*
Total Hepta-Furans	144	144		*	*

Integrations by Analyst: M Date: 10/28/14

Reviewed by Analyst: [illegible] Date: 10/29/14

Totals class: TCDD EMPC Entry #: 19

Run: 21 File: 141027D1 S: 15 I: 1 F: 1
Acquired: 28-OCT-14 01:50:12 Processed: 28-OCT-14 08:34:01

Total Concentration: 31.711 Unnamed Concentration: 30.665

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
23:37	2.615e+05	3.522e+05	0.74	y	6.137e+05	10.364	
23:58	1.665e+05	2.191e+05	0.76	y	3.856e+05	6.5122	
24:24	2.600e+04	3.684e+04	0.71	y	6.284e+04	1.0612	
25:08	8.695e+03	9.580e+03	0.91	n	1.696e+04	0.28635	
25:21	6.449e+04	8.660e+04	0.74	y	1.511e+05	2.5514	
25:33	6.816e+04	8.534e+04	0.80	y	1.535e+05	2.5921	
25:43	2.253e+04	3.309e+04	0.68	y	5.563e+04	0.93936	
25:57	1.048e+04	1.439e+04	0.73	y	2.487e+04	0.42006	
26:06	2.476e+04	2.683e+04	0.92	n	4.749e+04	0.80204	
26:28	4.135e+04	5.277e+04	0.78	y	9.412e+04	1.5894	
26:47	5.953e+04	7.218e+04	0.82	y	1.317e+05	2.2242	
26:55	9.459e+03	1.085e+04	0.87	y	2.031e+04	0.34294	
27:02	2.666e+04	3.526e+04	0.76	y	6.192e+04	1.0456	2,3,7,8-TCDD
27:19	1.984e+04	2.527e+04	0.79	y	4.511e+04	0.76179	
27:54	1.071e+04	7.316e+03	1.46	n	1.295e+04	0.21869	

Totals class: PeCDD EMPC Entry #: 21

Run: 21 File: 141027D1 S: 15 I: 1 F: 2
Acquired: 28-OCT-14 01:50:12 Processed: 28-OCT-14 08:34:01

Total Concentration: 48.321 Unnamed Concentration: 44.357

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
29:30	2.652e+05	4.363e+05	0.61	y	7.015e+05	13.147	
29:57	5.762e+04	8.062e+04	0.71	y	1.382e+05	2.5907	
30:24	1.475e+05	2.341e+05	0.63	y	3.816e+05	7.1513	
30:33	7.997e+04	1.362e+05	0.59	y	2.162e+05	4.0514	
30:38	1.197e+05	1.979e+05	0.60	y	3.176e+05	5.9521	
30:51	1.132e+05	1.626e+05	0.70	y	2.758e+05	5.1691	
31:09	6.930e+04	1.105e+05	0.63	y	1.798e+05	3.3705	
31:33	7.764e+04	1.339e+05	0.58	y	2.115e+05	3.9639	1,2,3,7,8-PeCDD
31:38	2.810e+04	3.937e+04	0.71	y	6.747e+04	1.2646	
31:55	3.570e+04	5.288e+04	0.68	y	8.858e+04	1.6602	

Totals class: HxCDD EMPC Entry #: 23

Run: 21 File: 141027D1 S: 15 I: 1 F: 3
Acquired: 28-OCT-14 01:50:12 Processed: 28-OCT-14 08:34:01

Total Concentration: 148.42 Unnamed Concentration: 118.380

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
33:20	1.019e+06	8.053e+05	1.27	y	1.824e+06	33.606	
33:55	8.154e+05	6.533e+05	1.25	y	1.469e+06	27.058	
34:11	1.493e+06	1.201e+06	1.24	y	2.694e+06	49.630	
34:18	1.432e+05	1.051e+05	1.36	y	2.483e+05	4.5740	
34:54	1.539e+05	1.240e+05	1.24	y	2.779e+05	5.9048	1,2,3,4,7,8-HxCDD
35:01	4.713e+05	3.790e+05	1.24	y	8.503e+05	12.846	1,2,3,6,7,8-HxCDD
35:11	1.032e+05	8.746e+04	1.18	y	1.907e+05	3.5123	
35:19	3.214e+05	2.444e+05	1.31	y	5.658e+05	11.285	1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC Entry #: 25

Run: 21 File: 141027D1 S: 15 I: 1 F: 4
Acquired: 28-OCT-14 01:50:12 Processed: 28-OCT-14 08:34:01

Total Concentration: 634.75 Unnamed Concentration: 345.447

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
37:56	7.594e+06	7.227e+06	1.05 y	1.482e+07	345.45	
38:46	6.261e+06	6.152e+06	1.02 y	1.241e+07	289.31	1,2,3,4,6,7,8-HpCDD

Totals class: TCDF EMPC Entry #: 27

Run: 21 File: 141027D1 S: 15 I: 1 F: 1
Acquired: 28-OCT-14 01:50:12 Processed: 28-OCT-14 08:34:01

Total Concentration: 167.37 Unnamed Concentration: 149.039

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
21:27	4.283e+04	5.842e+04	0.73	y	1.013e+05	1.2712	
22:02	1.298e+05	1.790e+05	0.73	y	3.089e+05	3.8775	
22:41	3.056e+05	3.694e+05	0.83	y	6.750e+05	8.4740	
23:12	4.264e+05	5.353e+05	0.80	y	9.617e+05	12.073	
23:35	3.704e+05	4.919e+05	0.75	y	8.623e+05	10.825	
24:00	1.784e+05	2.161e+05	0.83	y	3.945e+05	4.9530	
24:09	3.308e+05	4.318e+05	0.77	y	7.626e+05	9.5737	
24:18	4.594e+05	5.868e+05	0.78	y	1.046e+06	13.134	
24:39	6.692e+04	8.811e+04	0.76	y	1.550e+05	1.9462	
24:47	1.663e+05	2.050e+05	0.81	y	3.713e+05	4.6614	
24:55	3.234e+05	4.149e+05	0.78	y	7.383e+05	9.2687	
25:02	2.446e+05	3.123e+05	0.78	y	5.569e+05	6.9913	
25:27	3.081e+05	3.967e+05	0.78	y	7.049e+05	8.8489	
25:42	2.104e+05	2.810e+05	0.75	y	4.913e+05	6.1683	
25:52	7.677e+04	9.069e+04	0.85	y	1.675e+05	2.1023	
26:04	1.015e+05	1.358e+05	0.75	y	2.373e+05	2.9786	
26:09	9.420e+04	1.183e+05	0.80	y	2.125e+05	2.6682	
26:16	6.340e+05	8.264e+05	0.77	y	1.460e+06	18.334	2,3,7,8-TCDF
26:35	8.934e+05	1.152e+06	0.78	y	2.046e+06	25.683	
26:49	4.227e+04	4.926e+04	0.86	y	9.153e+04	1.1491	
28:01	9.117e+05	5.577e+05	1.63	n	9.870e+05	12.391	

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 21 File: 141027D1 S: 15 I: 1 F: 1
Acquired: 28-OCT-14 01:50:12 Processed: 28-OCT-14 08:34:01

Total Concentration: 27.590 Unnamed Concentration: 27.590

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
28:00	1.358e+06	8.886e+05	1.53 y	2.247e+06	27.590	

Totals class: PeCDF EMPC Entry #: 31

Run: 21 File: 141027D1 S: 15 I: 1 F: 2
Acquired: 28-OCT-14 01:50:12 Processed: 28-OCT-14 08:34:01

Total Concentration: 88.039 Unnamed Concentration: 75.614

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
29:20	6.533e+05	4.198e+05	1.56	y	1.073e+06	13.179	
29:28	1.577e+06	1.020e+06	1.55	y	2.597e+06	31.891	
29:49	9.853e+04	5.786e+04	1.70	y	1.564e+05	1.9206	
30:00	5.467e+05	3.341e+05	1.64	y	8.808e+05	10.817	
30:13	1.008e+05	6.401e+04	1.58	y	1.648e+05	2.0242	
30:23	2.280e+05	1.466e+05	1.55	y	3.746e+05	4.3958	1,2,3,7,8-PeCDF
30:37	3.542e+05	2.241e+05	1.58	y	5.783e+05	7.1020	
31:05	2.739e+04	1.782e+04	1.54	y	4.521e+04	0.55518	
31:11	2.535e+05	1.522e+05	1.67	y	4.057e+05	4.9819	
31:16	3.707e+05	2.538e+05	1.46	y	6.244e+05	8.0295	2,3,4,7,8-PeCDF
31:19	1.113e+05	7.287e+04	1.53	y	1.842e+05	2.2618	
31:34	1.984e+04	1.325e+04	1.50	y	3.309e+04	0.40635	
32:09	2.351e+04	1.898e+04	1.24	n	3.868e+04	0.47502	

Totals class: HxCDF EMPC Entry #: 33

Run: 21 File: 141027D1 S: 15 I: 1 F: 3
Acquired: 28-OCT-14 01:50:12 Processed: 28-OCT-14 08:34:01

Total Concentration: 100.49 Unnamed Concentration: 78.881

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
32:47	4.701e+05	3.611e+05	1.30 y	8.312e+05	10.351	
32:57	1.758e+06	1.397e+06	1.26 y	3.155e+06	39.290	
33:10	5.286e+04	3.991e+04	1.32 y	9.277e+04	1.1553	
33:19	7.382e+04	5.898e+04	1.25 y	1.328e+05	1.6538	
33:31	8.673e+05	6.762e+05	1.28 y	1.543e+06	19.221	
33:53	1.844e+05	1.484e+05	1.24 y	3.329e+05	4.1456	
33:59	3.819e+05	3.000e+05	1.27 y	6.819e+05	8.0255	1,2,3,4,7,8-HxCDF
34:07	2.761e+05	2.223e+05	1.24 y	4.985e+05	5.7840	1,2,3,6,7,8-HxCDF
34:17	2.326e+04	1.875e+04	1.24 y	4.201e+04	0.52311	
34:25	3.118e+04	2.938e+04	1.06 y	6.057e+04	0.75428	
34:32	3.881e+04	3.474e+04	1.12 y	7.355e+04	0.91595	
34:44	3.057e+05	2.304e+05	1.33 y	5.361e+05	6.7765	2,3,4,6,7,8-HxCDF
35:42	4.191e+04	3.040e+04	1.38 y	7.231e+04	1.0280	1,2,3,7,8,9-HxCDF
35:46	3.774e+04	3.215e+04	1.17 y	6.989e+04	0.87035	

Totals class: HpCDF EMPC Entry #: 35

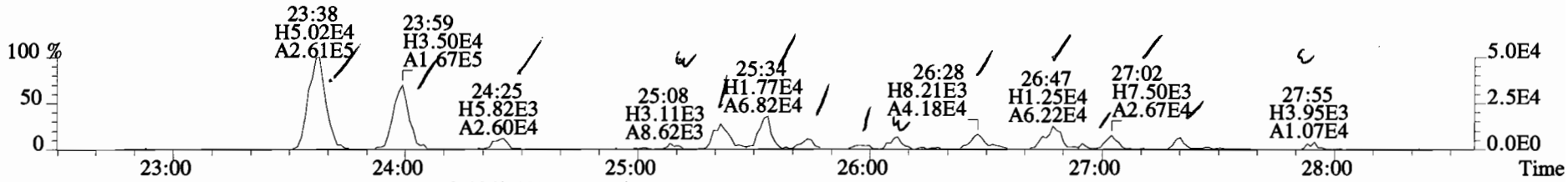
Run: 21 File: 141027D1 S: 15 I: 1 F: 4
Acquired: 28-OCT-14 01:50:12 Processed: 28-OCT-14 08:34:01

Total Concentration: 144.50 Unnamed Concentration: 80.086

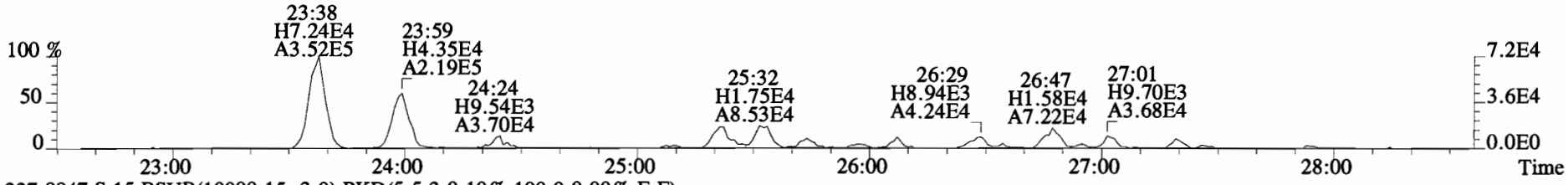
RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
37:33	2.116e+06	1.949e+06	1.09 y	4.066e+06	59.076	1,2,3,4,6,7,8-HpCDF
37:56	1.274e+05	1.070e+05	1.19 y	2.344e+05	3.7203	
38:08	2.517e+06	2.294e+06	1.10 y	4.811e+06	76.366	
39:19	1.657e+05	1.405e+05	1.18 y	3.062e+05	5.3343	1,2,3,4,7,8,9-HpCDF

File:141027D1 #1-552 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5

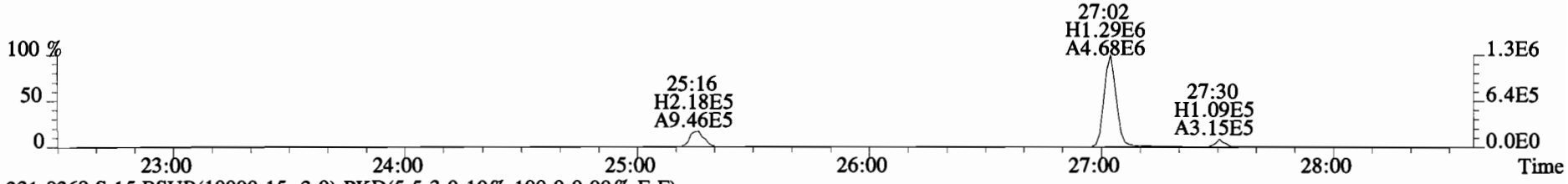
319.8965 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



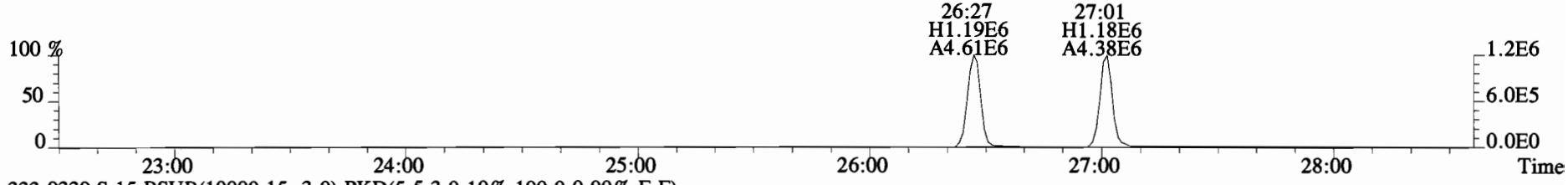
321.8936 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



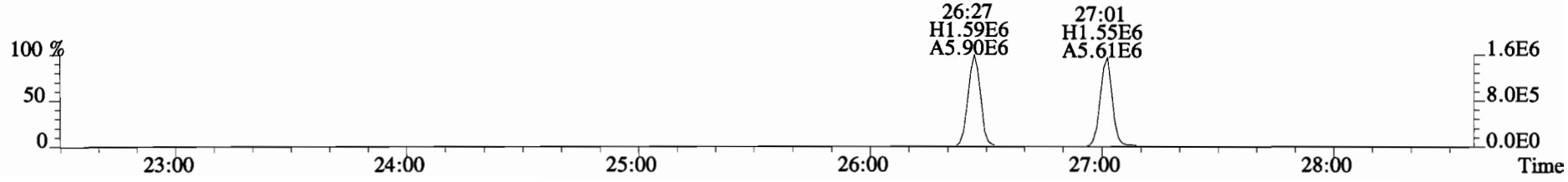
327.8847 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



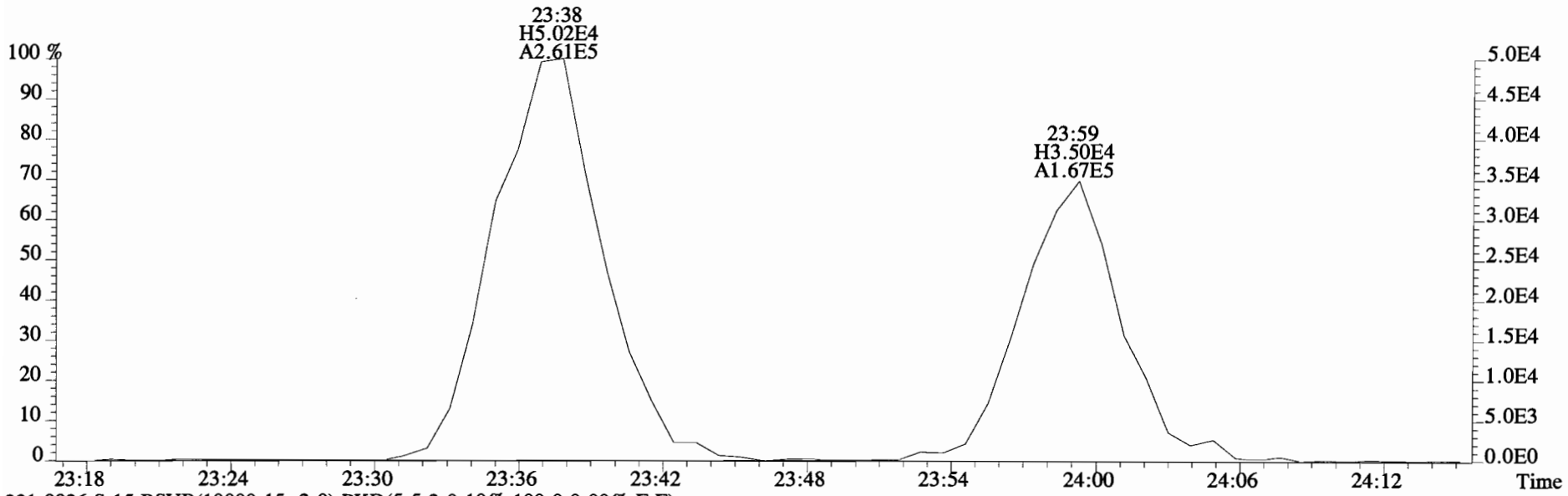
331.9368 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



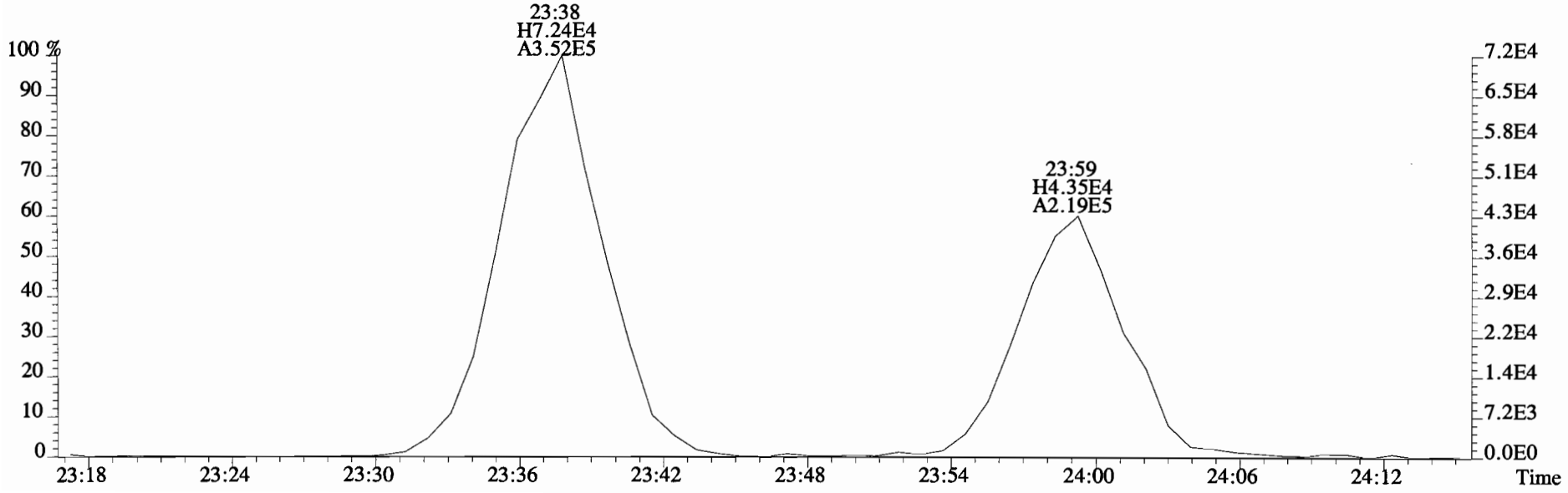
333.9339 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



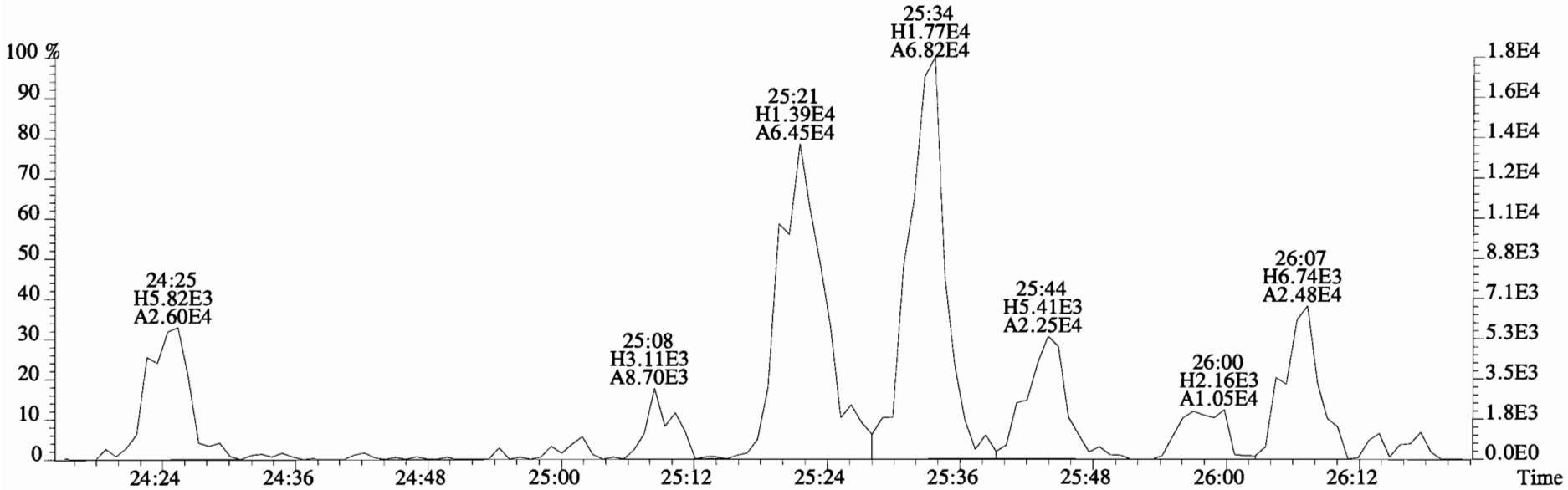
File:141027D1 #1-552 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
319.8965 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



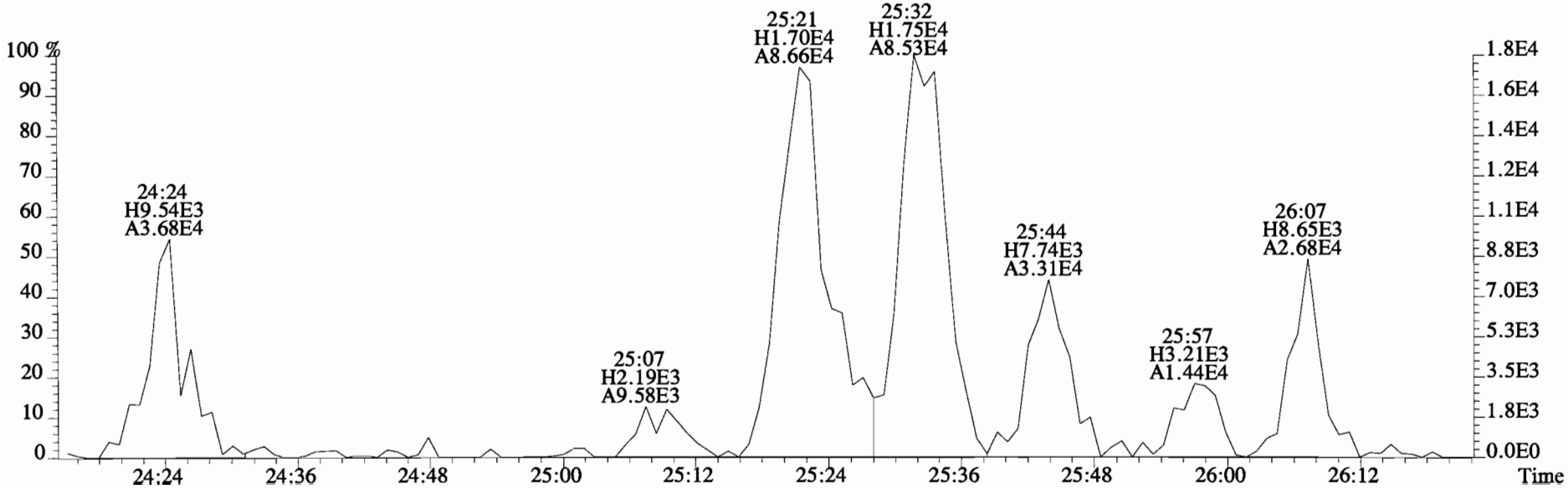
321.8936 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



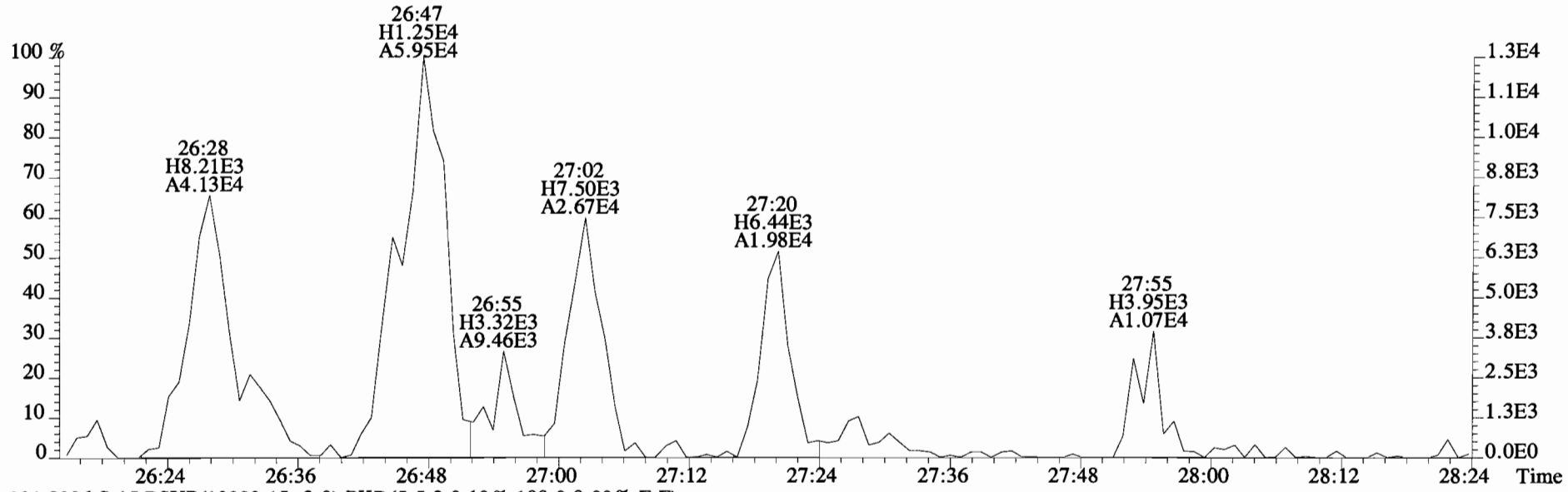
File:141027D1 #1-552 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
319.8965 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



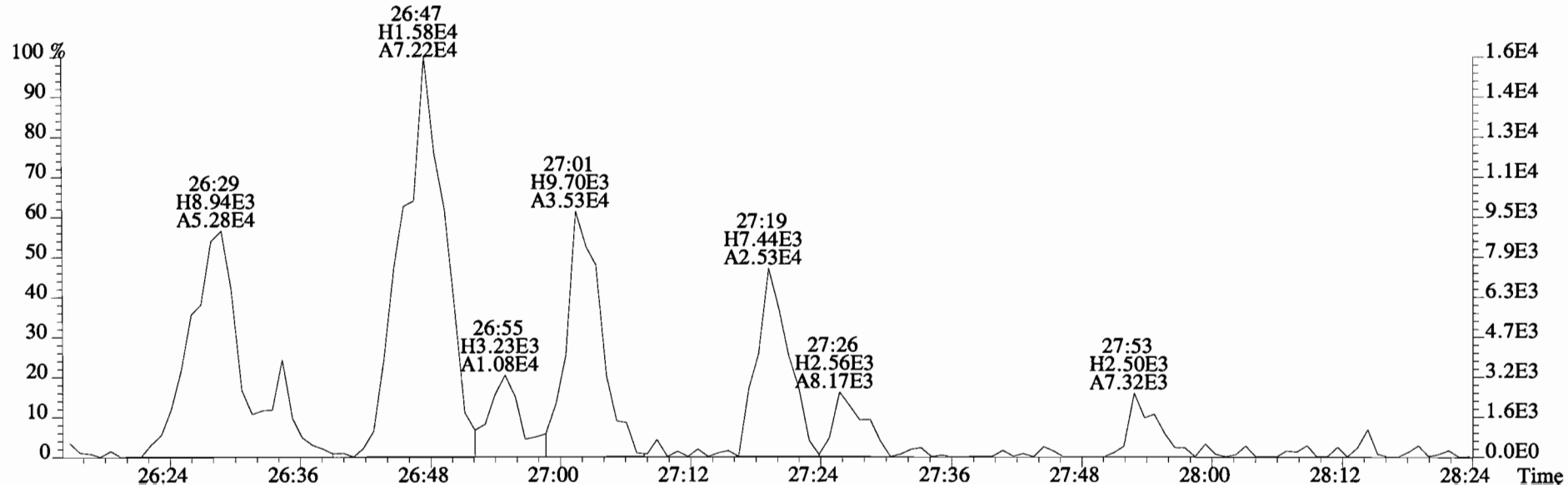
321.8936 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

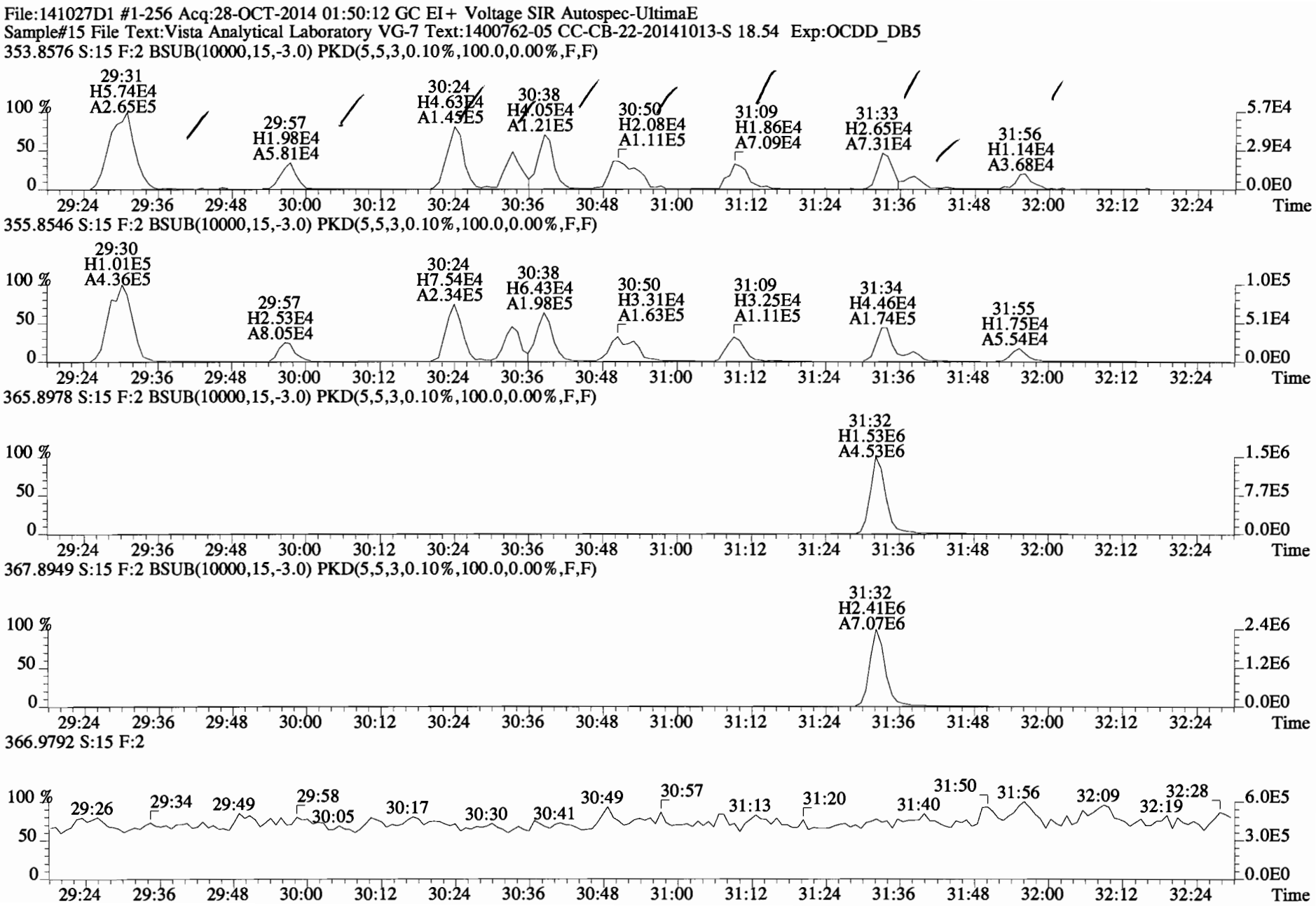


File:141027D1 #1-552 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
319.8965 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

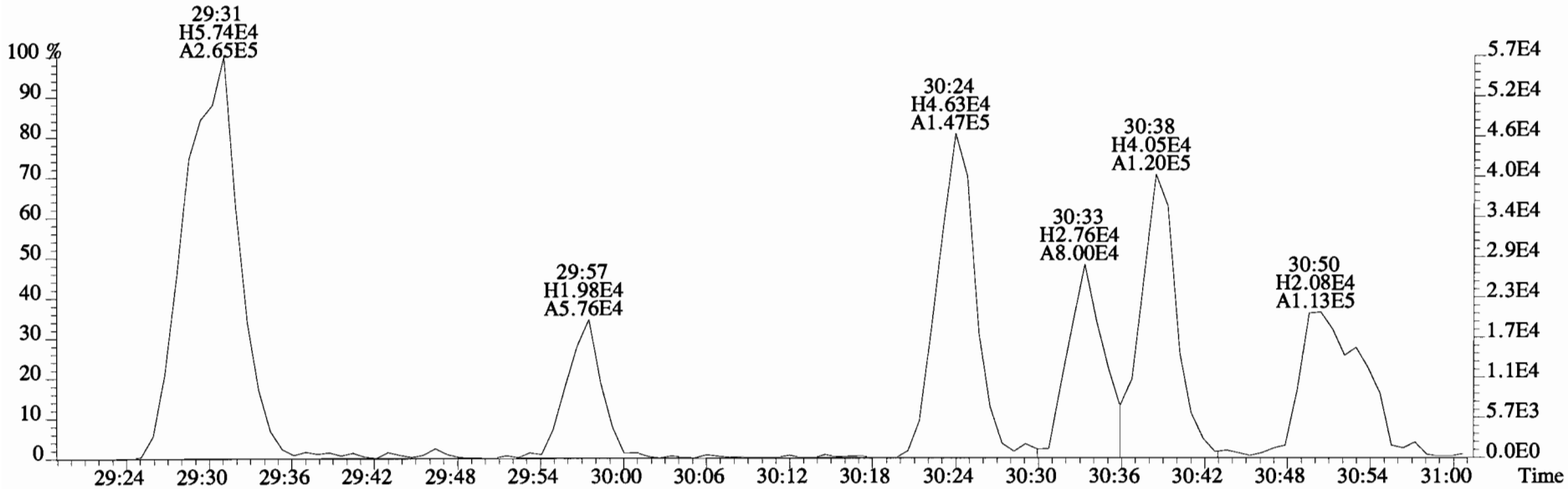


321.8936 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

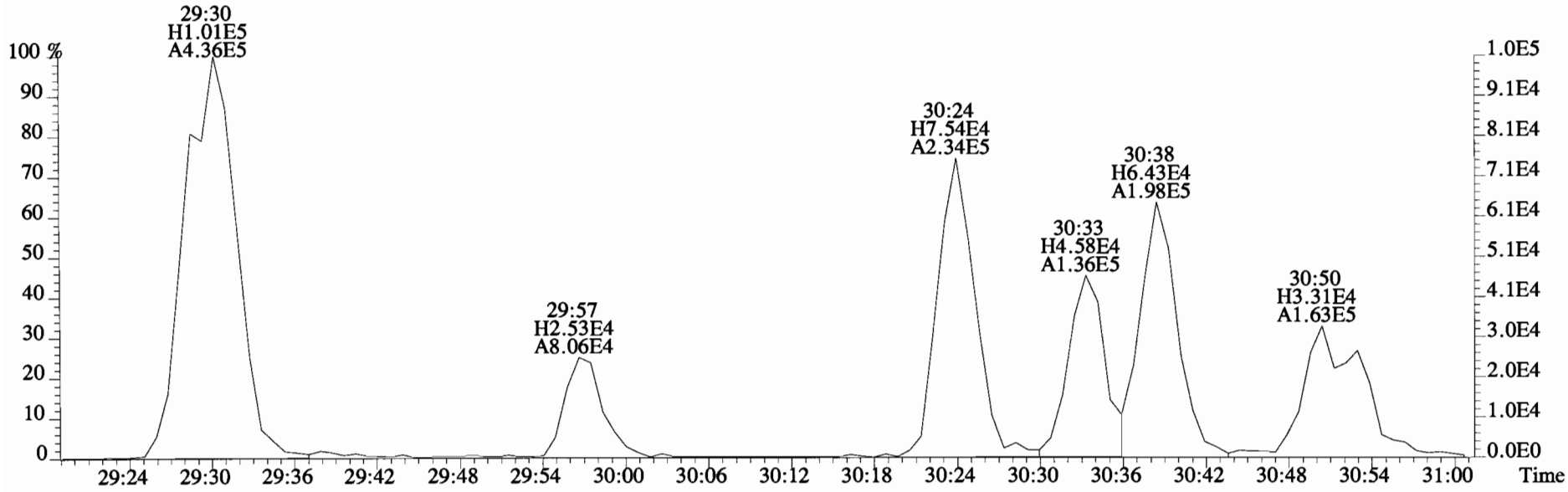



File:141027D1 #1-256 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
353.8576 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
29:31 H5.74E4 A2.65E5
29:57 H1.98E4 A5.81E4
30:24 H4.63E4 A1.45E5
30:38 H4.05E4 A1.21E5
30:50 H2.08E4 A1.11E5
31:09 H1.86E4 A7.09E4
31:33 H2.65E4 A7.31E4
31:56 H1.14E4 A3.68E4
355.8546 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
29:30 H1.01E5 A4.36E5
29:57 H2.53E4 A8.05E4
30:24 H7.54E4 A2.34E5
30:38 H6.43E4 A1.98E5
30:50 H3.31E4 A1.63E5
31:09 H3.25E4 A1.11E5
31:34 H4.46E4 A1.74E5
31:55 H1.75E4 A5.54E4
365.8978 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
31:32 H1.53E6 A4.53E6
367.8949 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
31:32 H2.41E6 A7.07E6
366.9792 S:15 F:2
29:26 29:34 29:49 29:58 30:05 30:17 30:30 30:41 30:49 30:57 31:13 31:20 31:40 31:50 31:56 32:09 32:19 32:28
100 %
50
0
5.7E4
2.9E4
0.0E0
1.0E5
5.1E4
1.5E6
7.7E5
2.4E6
1.2E6
6.0E5
3.0E5
29:24 29:36 29:48 30:00 30:12 30:24 30:36 30:48 31:00 31:12 31:24 31:36 31:48 32:00 32:12 32:24
Time

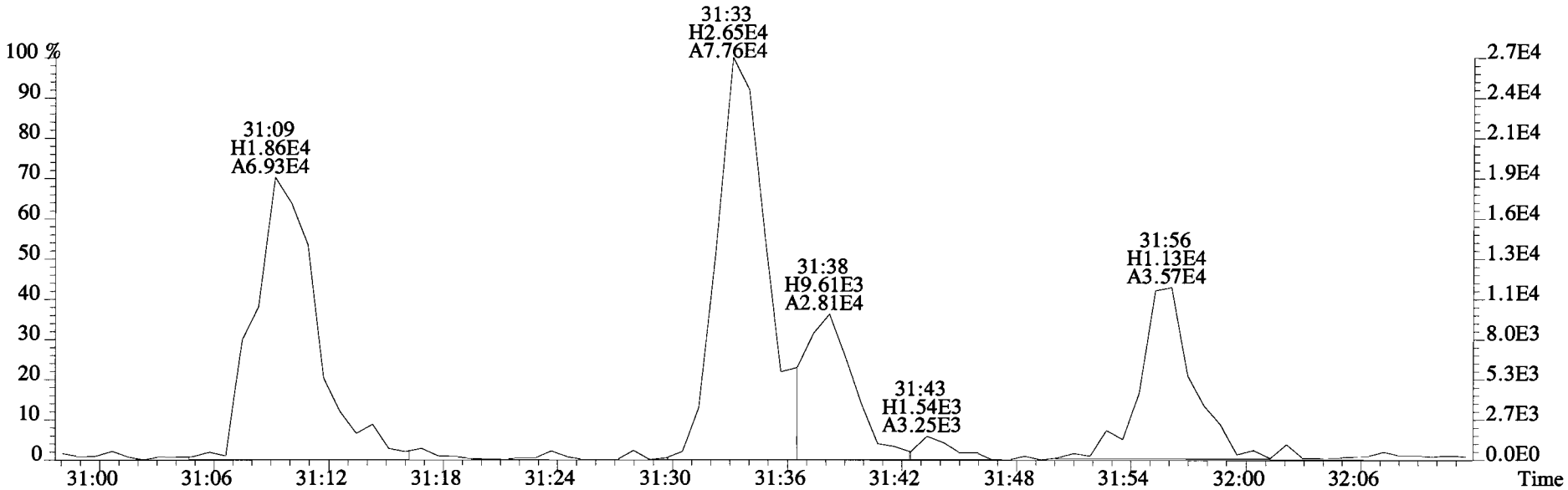
File:141027D1 #1-256 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
353.8576 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



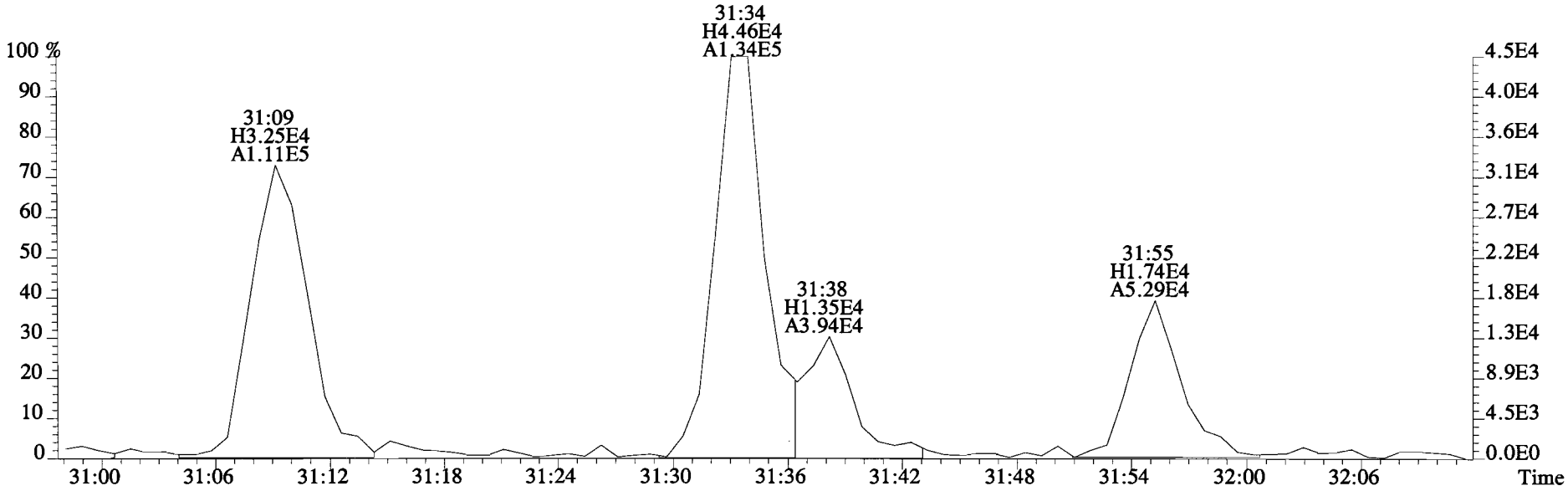
355.8546 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



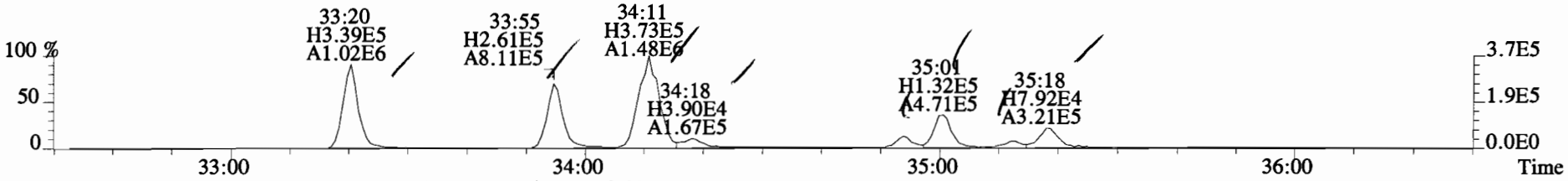
File:141027D1 #1-256 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
353.8576 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



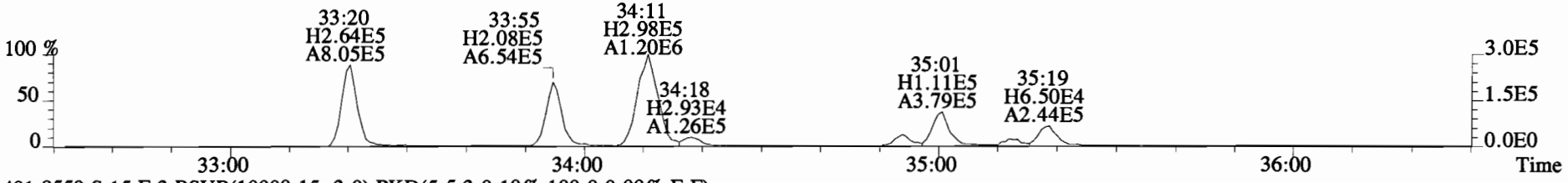
355.8546 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



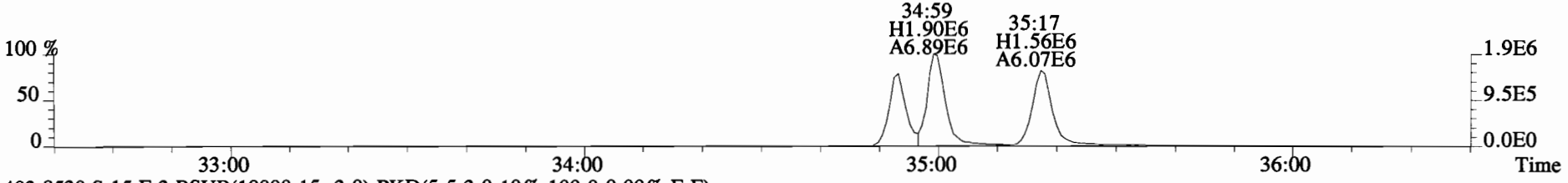
File:141027D1 #1-385 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
389.8156 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



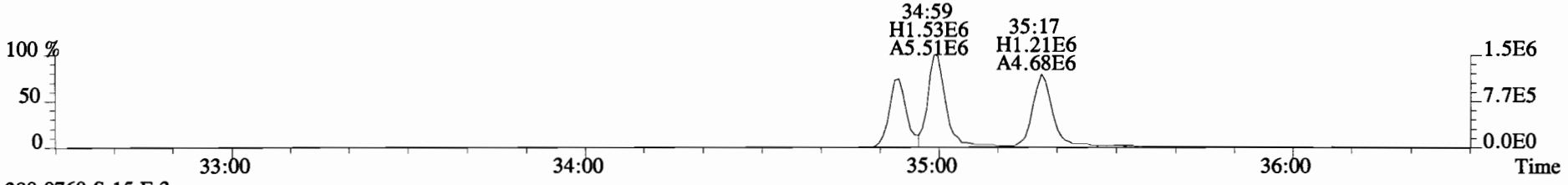
391.8127 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



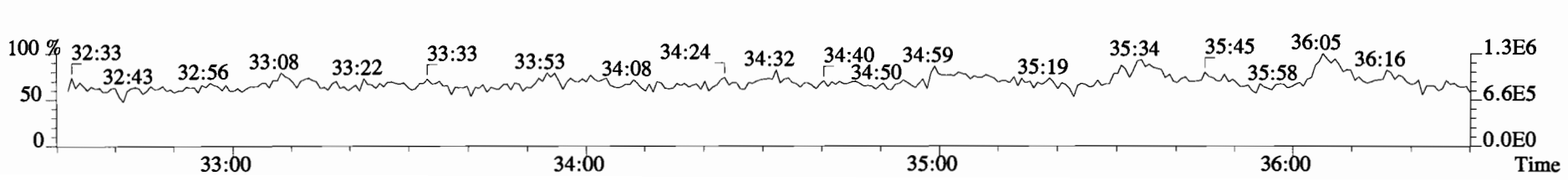
401.8559 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



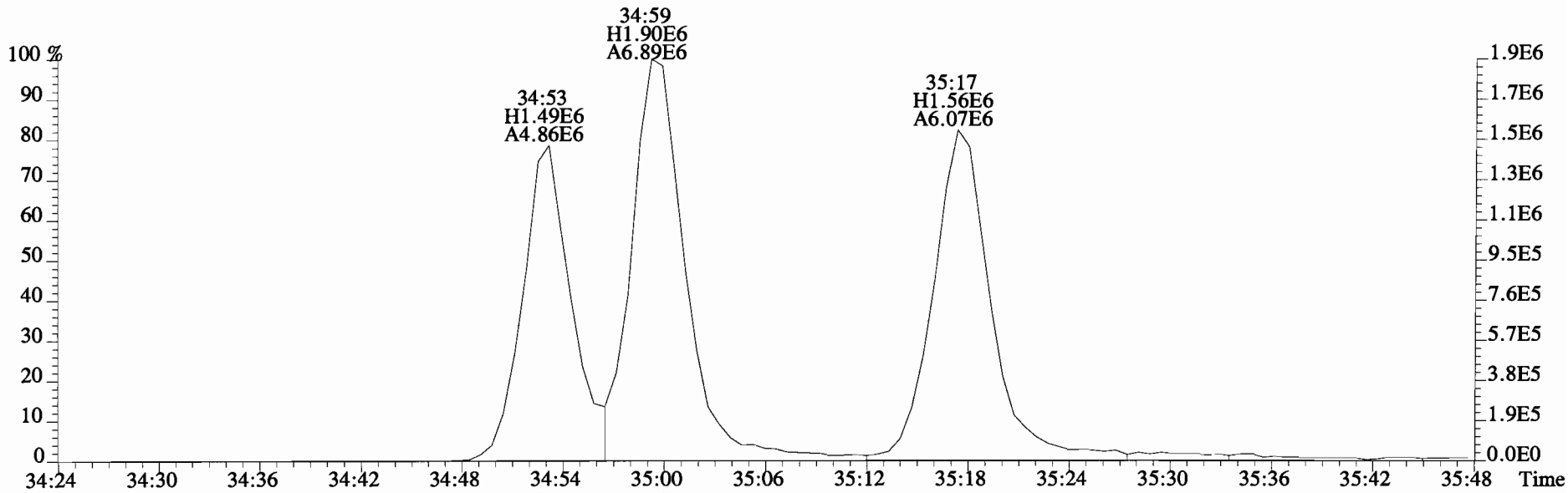
403.8530 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



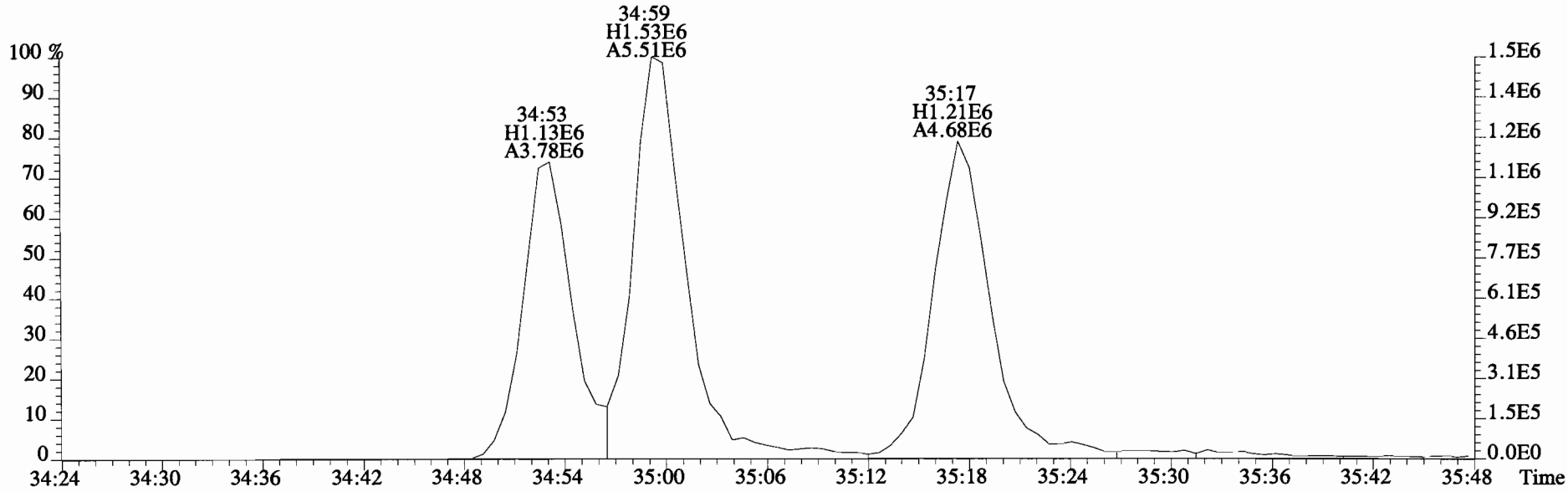
380.9760 S:15 F:3



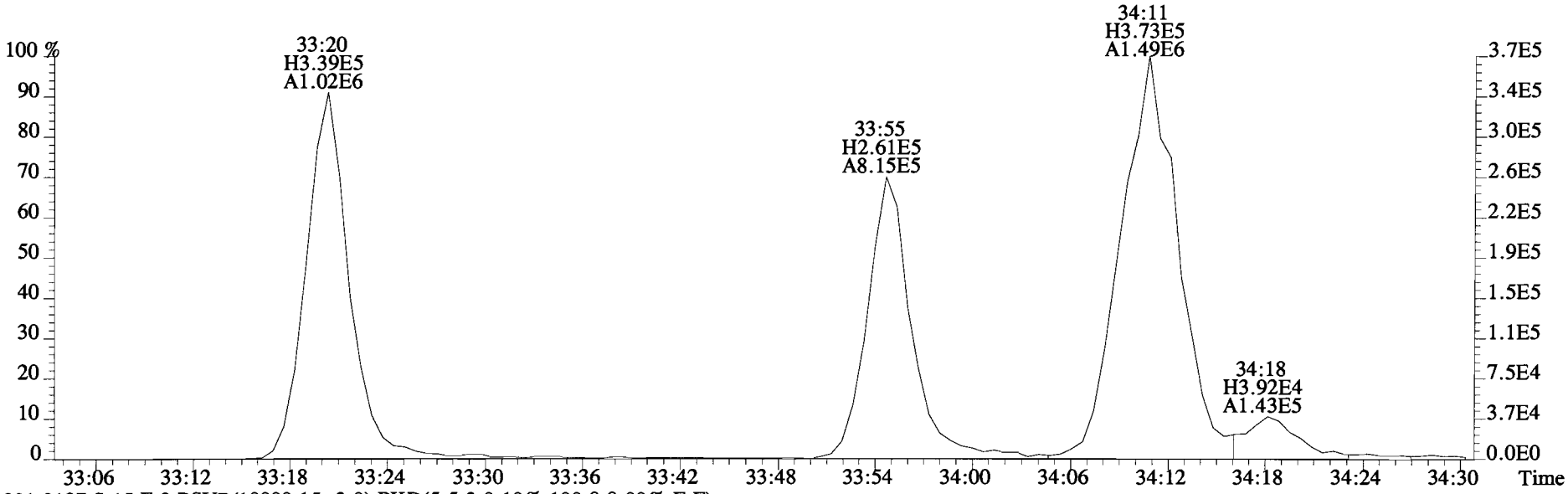
File:141027D1 #1-385 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
401.8559 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



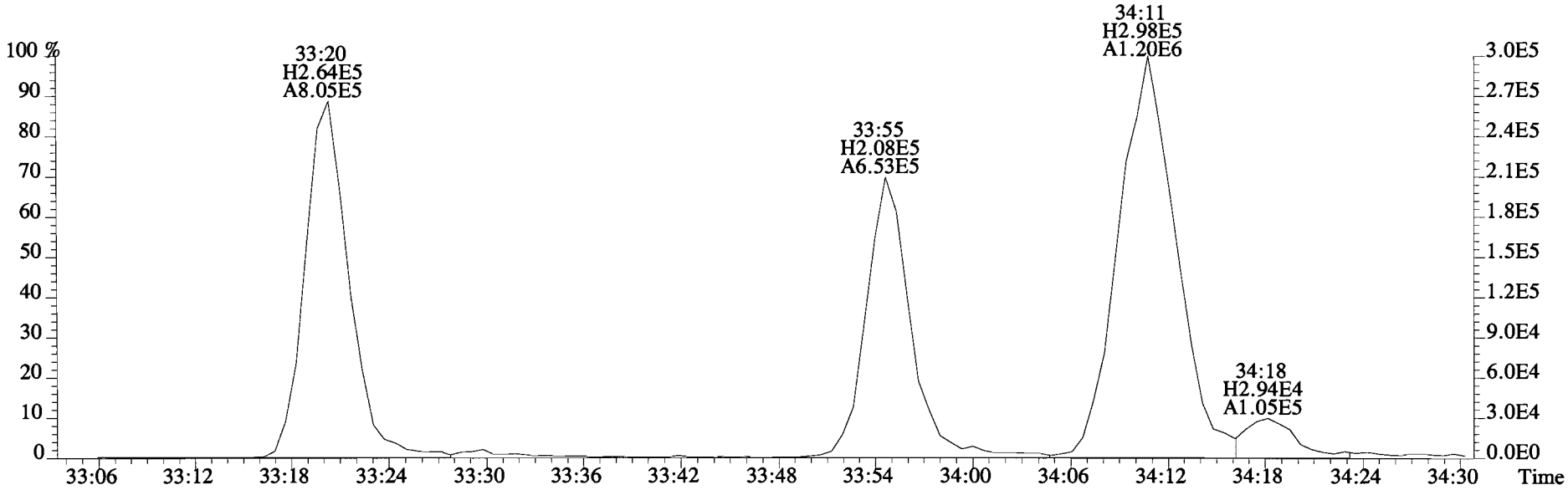
403.8530 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



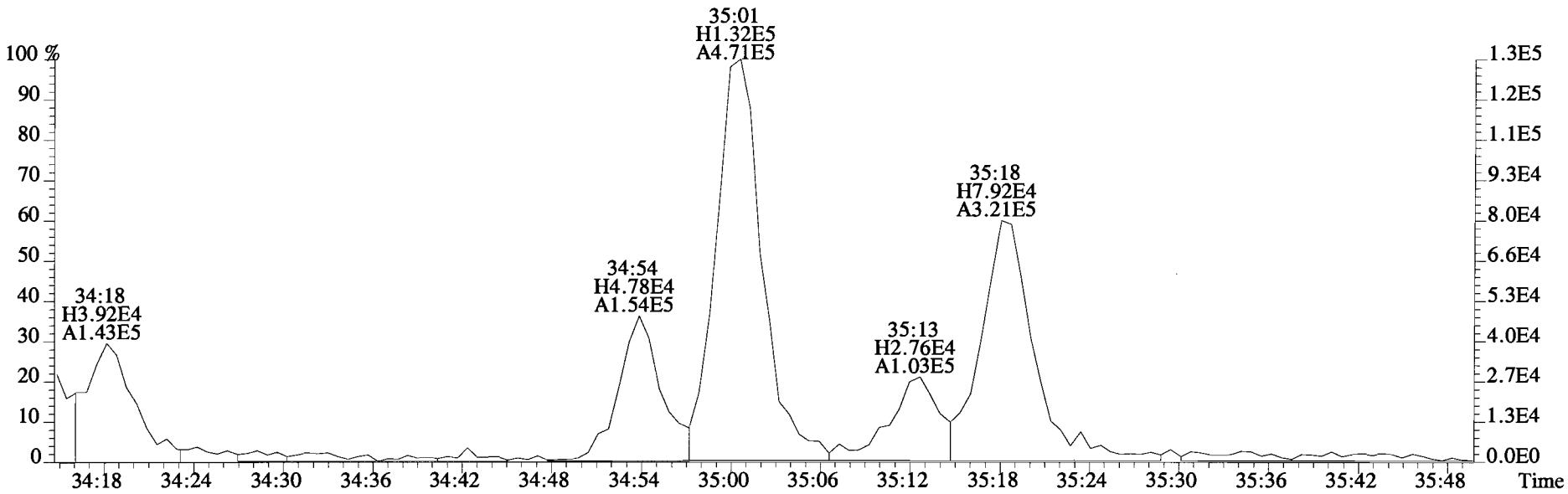
File:141027D1 #1-385 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
389.8156 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



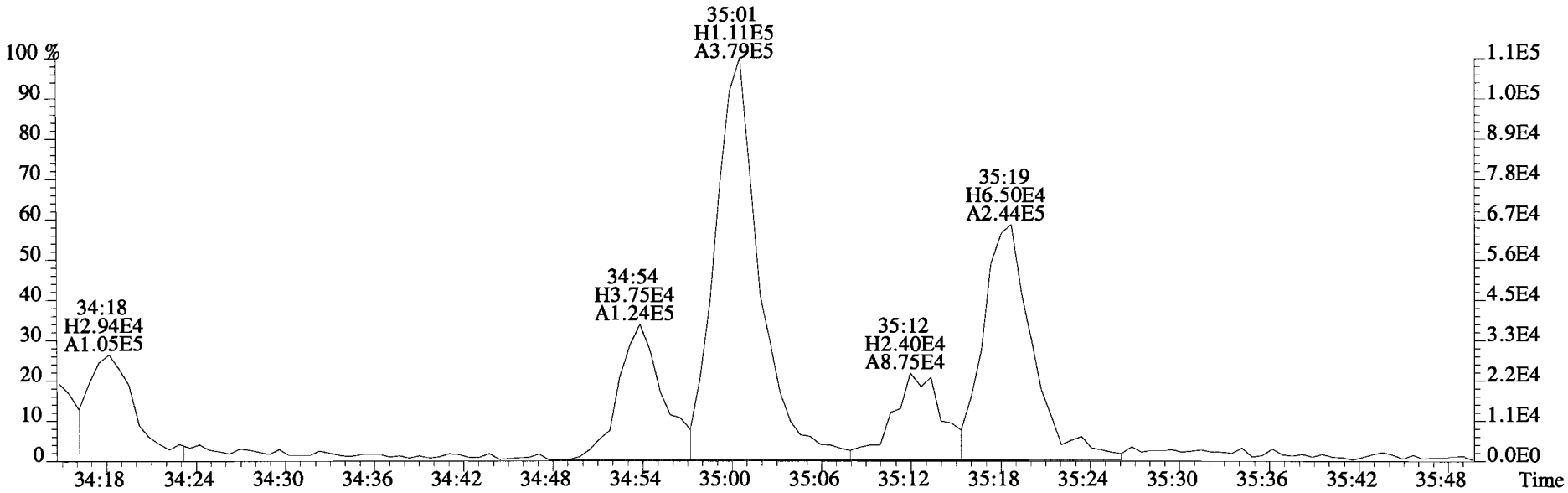
391.8127 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



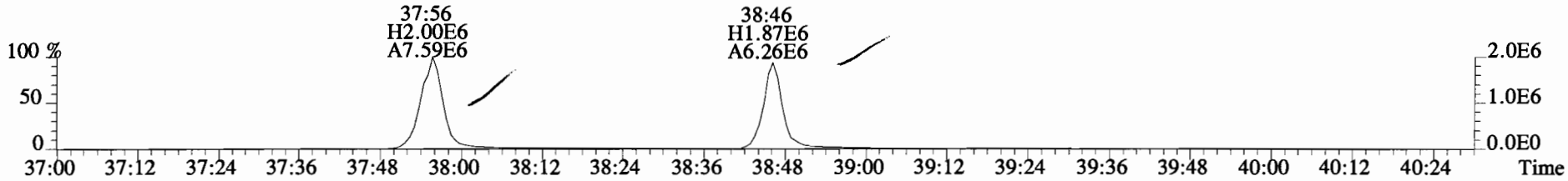
File:141027D1 #1-385 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
389.8156 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



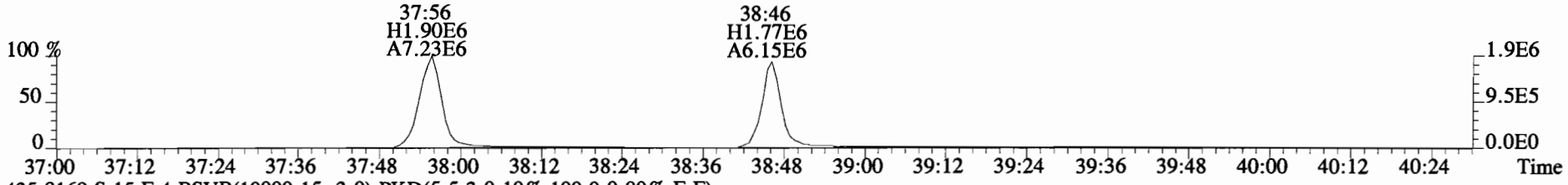
391.8127 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



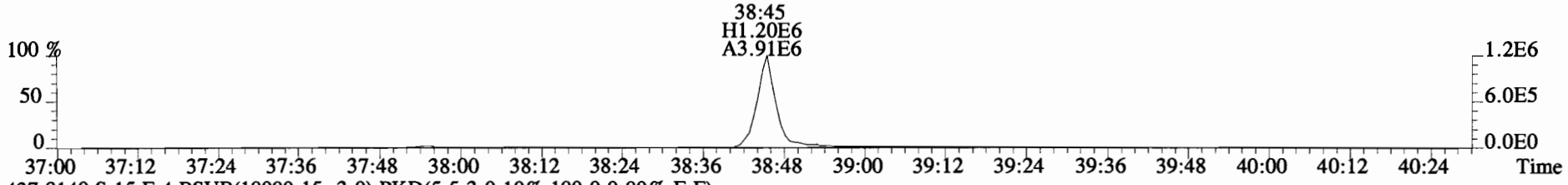
File:141027D1 #1-326 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
423.7767 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



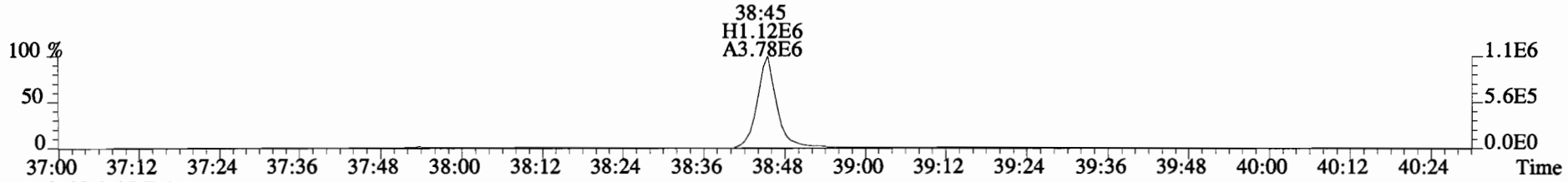
425.7737 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



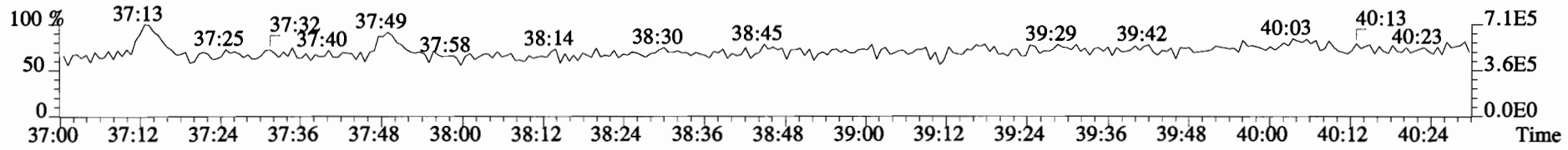
435.8169 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



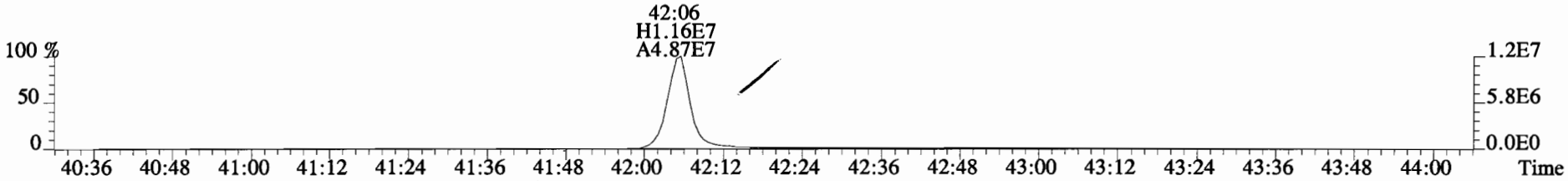
437.8140 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



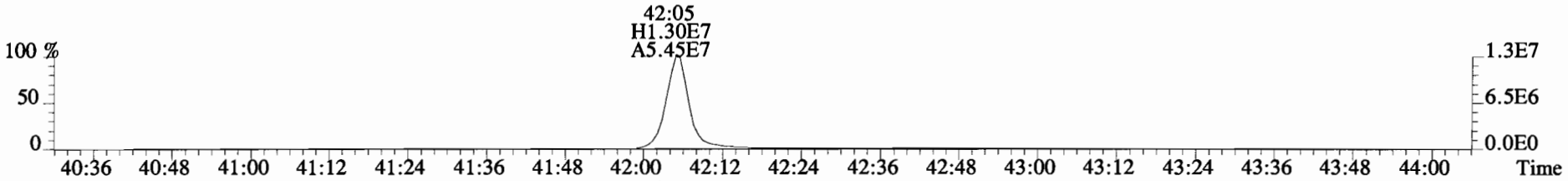
430.9728 S:15 F:4



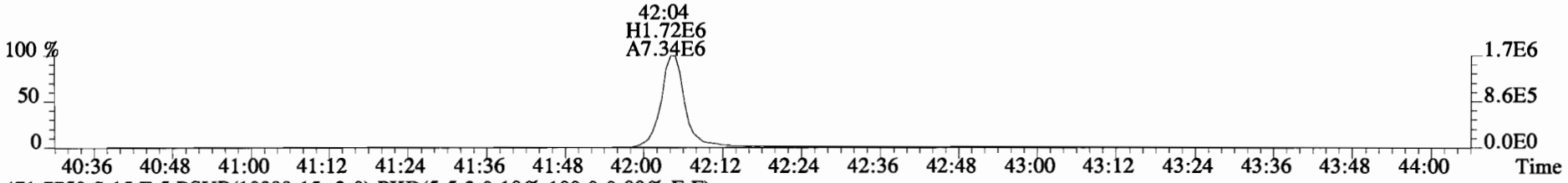
File:141027D1 #1-388 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
457.7377 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



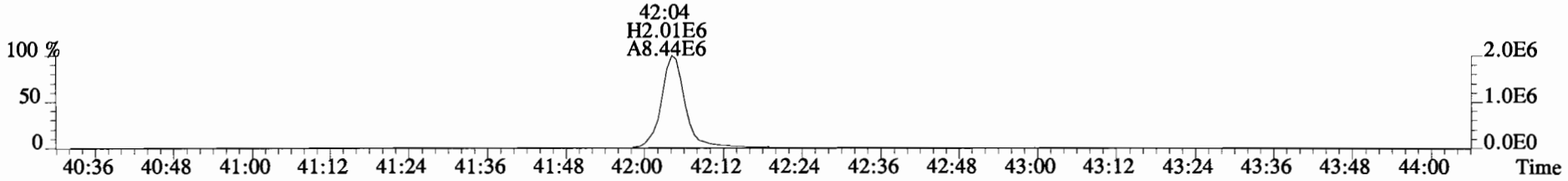
459.7348 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



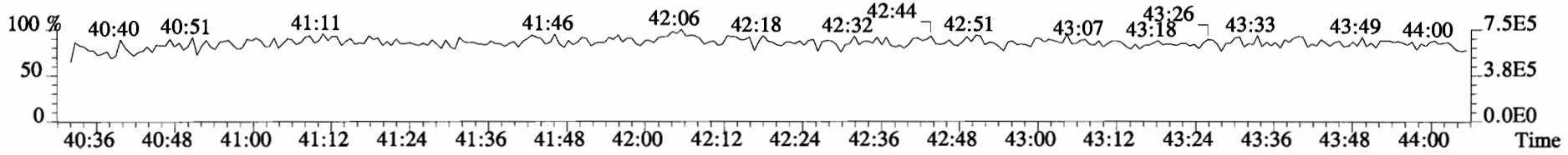
469.7780 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



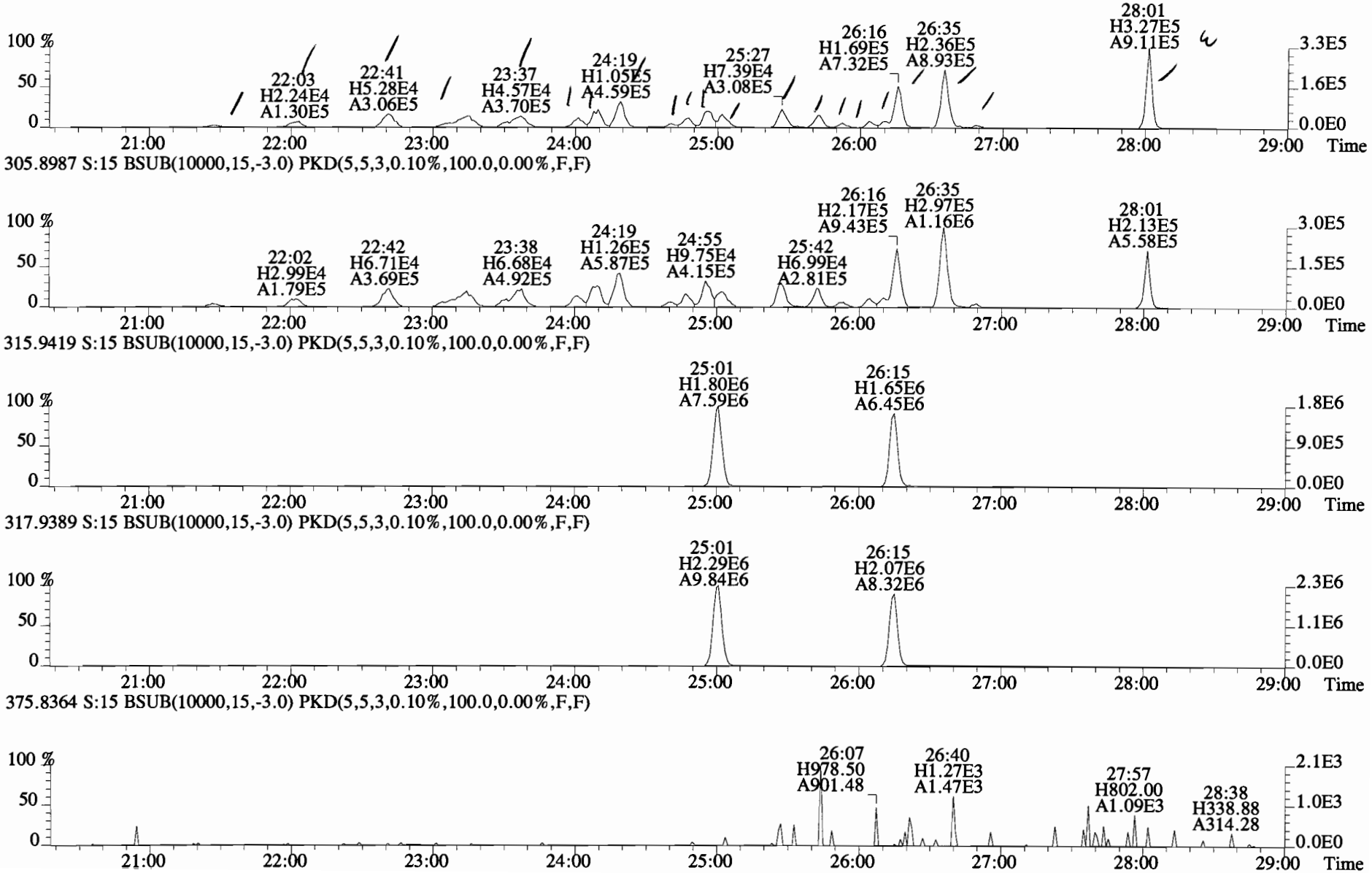
471.7750 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

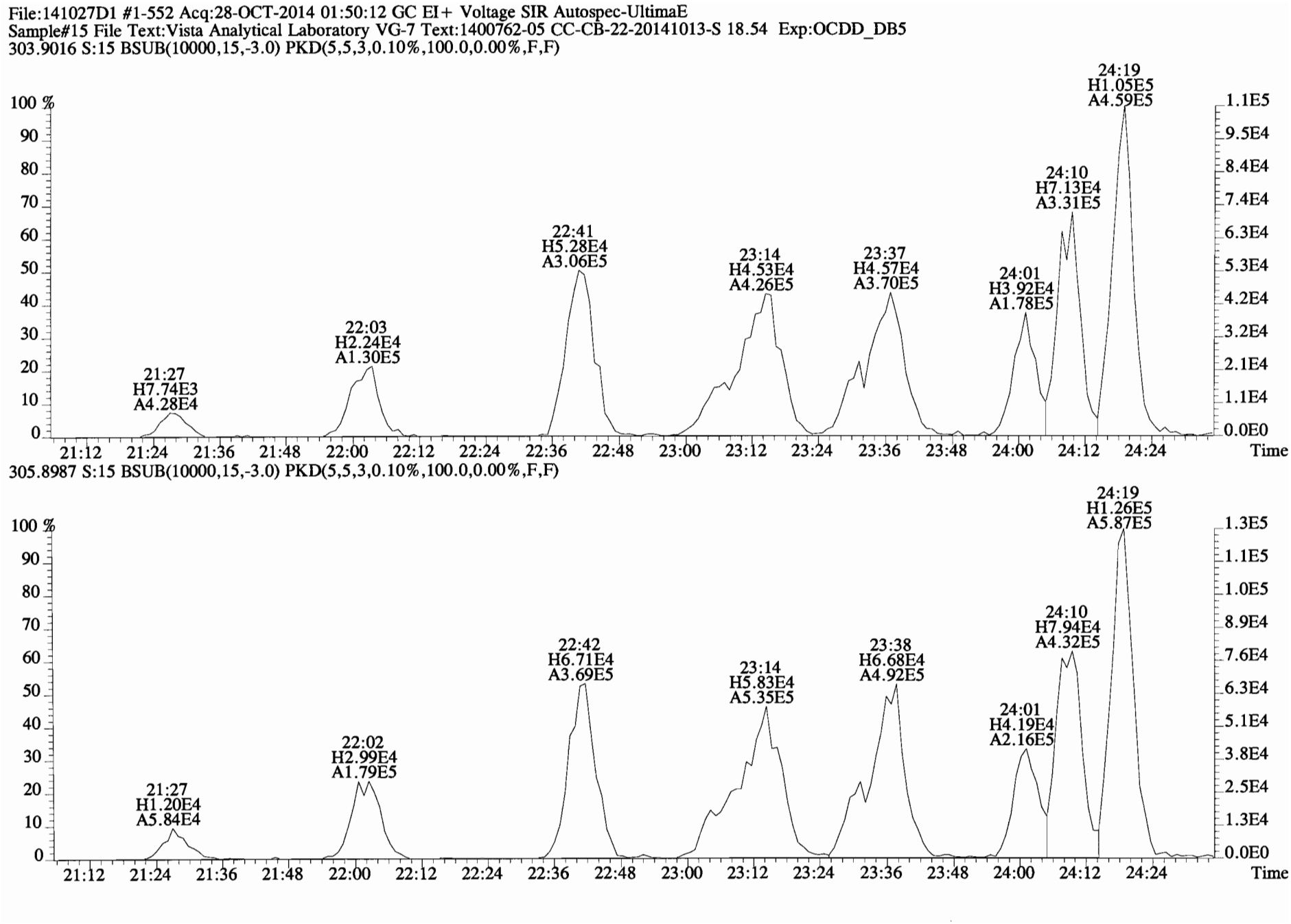


454.9728 S:15 F:5

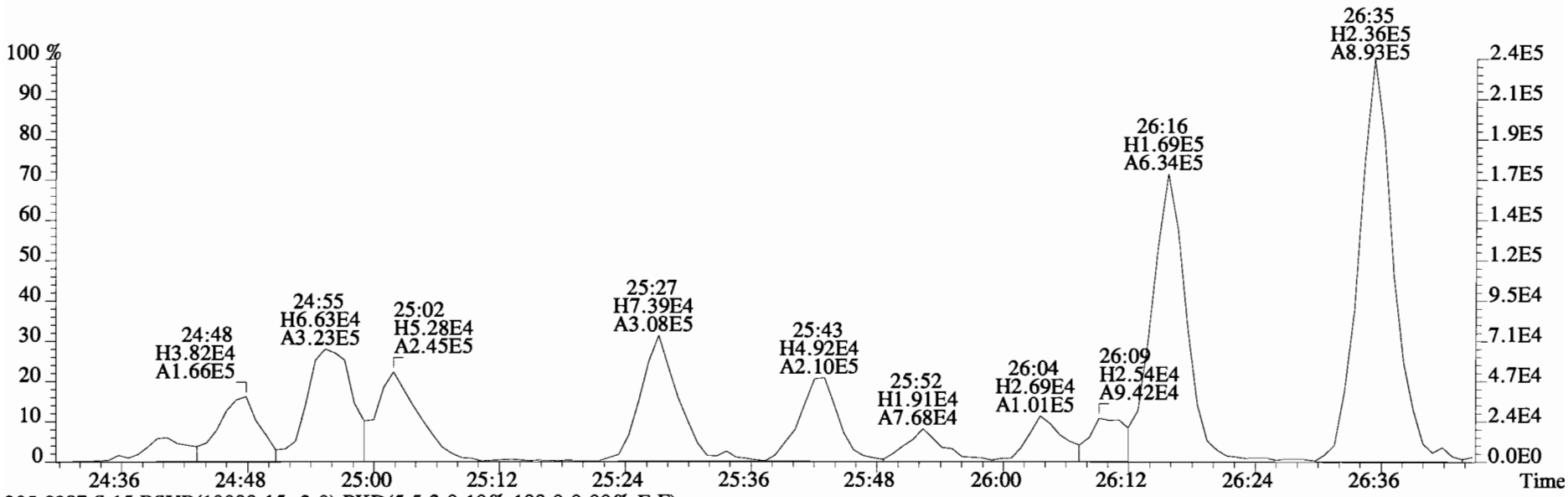


File:141027D1 #1-552 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5

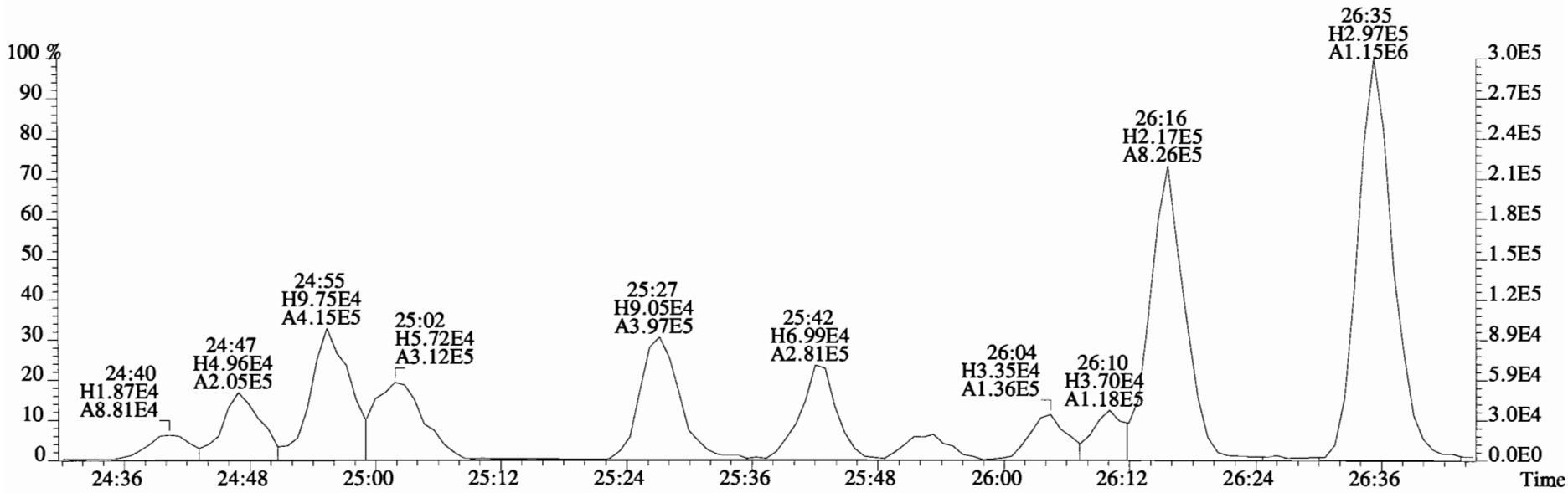



File:141027D1 #1-552 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
303.9016 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
21:27 H7.74E3 A4.28E4
22:03 H2.24E4 A1.30E5
22:41 H5.28E4 A3.06E5
23:14 H4.53E4 A4.26E5
23:37 H4.57E4 A3.70E5
24:01 H3.92E4 A1.78E5
24:10 H7.13E4 A3.31E5
24:19 H1.05E5 A4.59E5
305.8987 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
21:27 H1.20E4 A5.84E4
22:02 H2.99E4 A1.79E5
22:42 H6.71E4 A3.69E5
23:14 H5.83E4 A5.35E5
23:38 H6.68E4 A4.92E5
24:01 H4.19E4 A2.16E5
24:10 H7.94E4 A4.32E5
24:19 H1.26E5 A5.87E5
Time

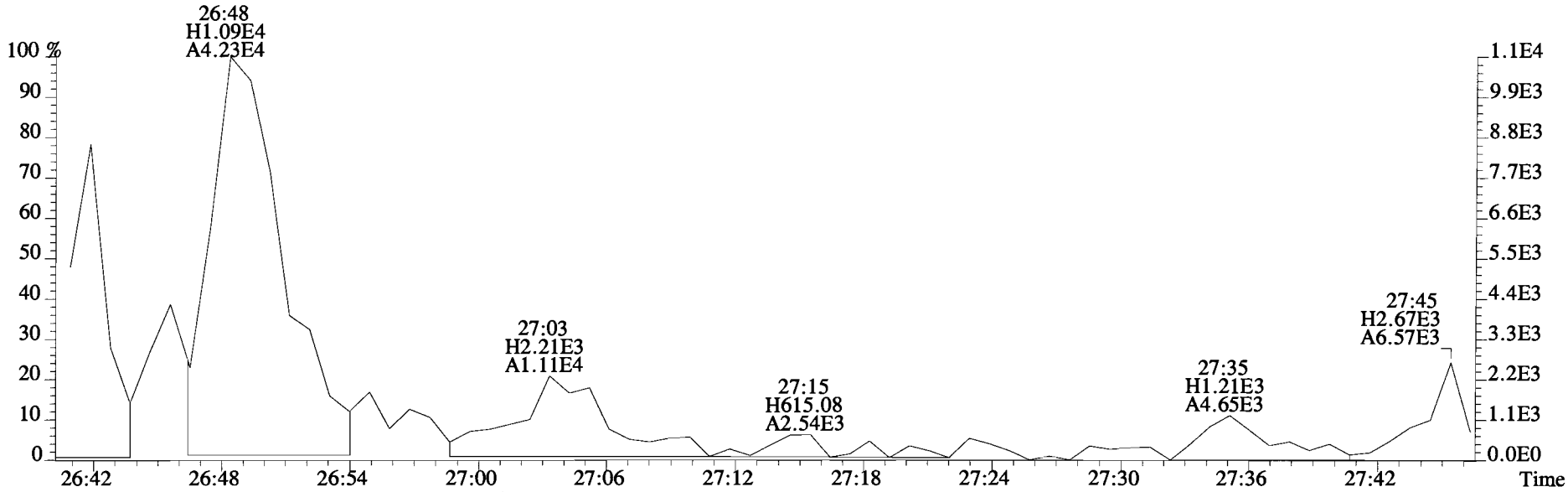
File:141027D1 #1-552 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
303.9016 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



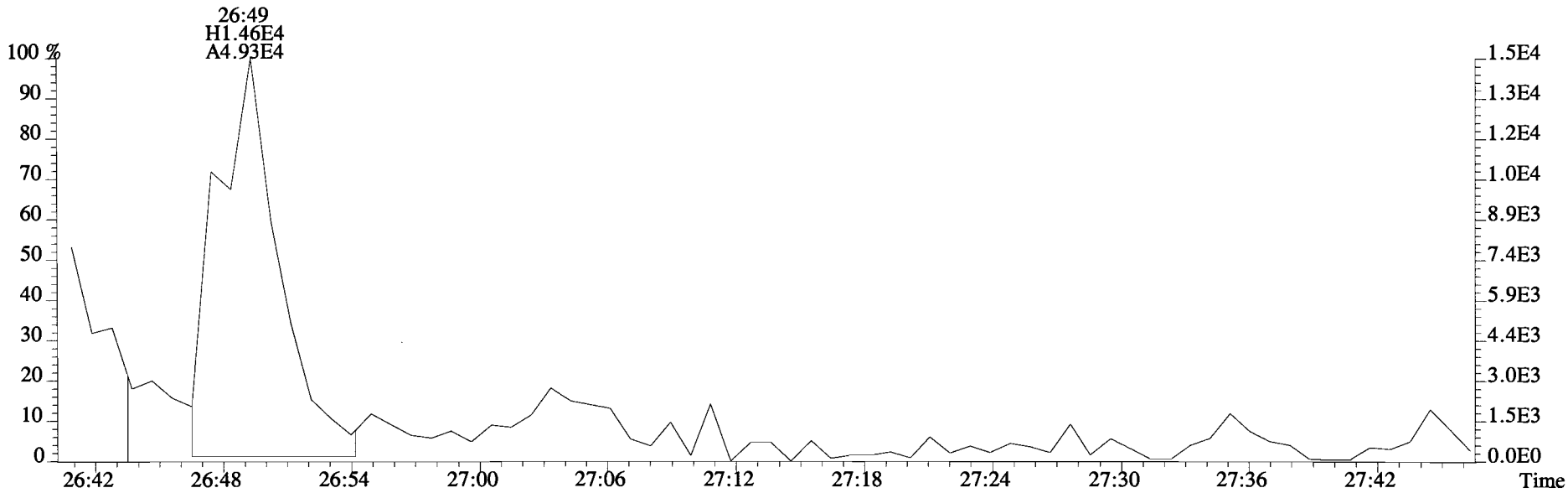
305.8987 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



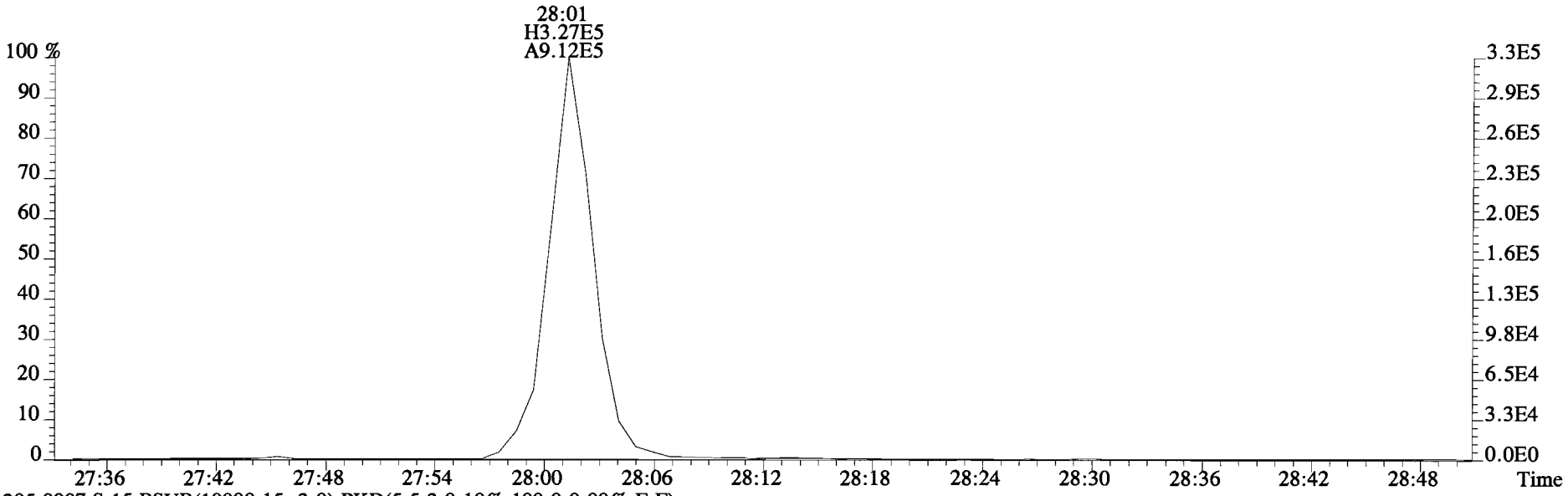
File:141027D1 #1-552 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
303.9016 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



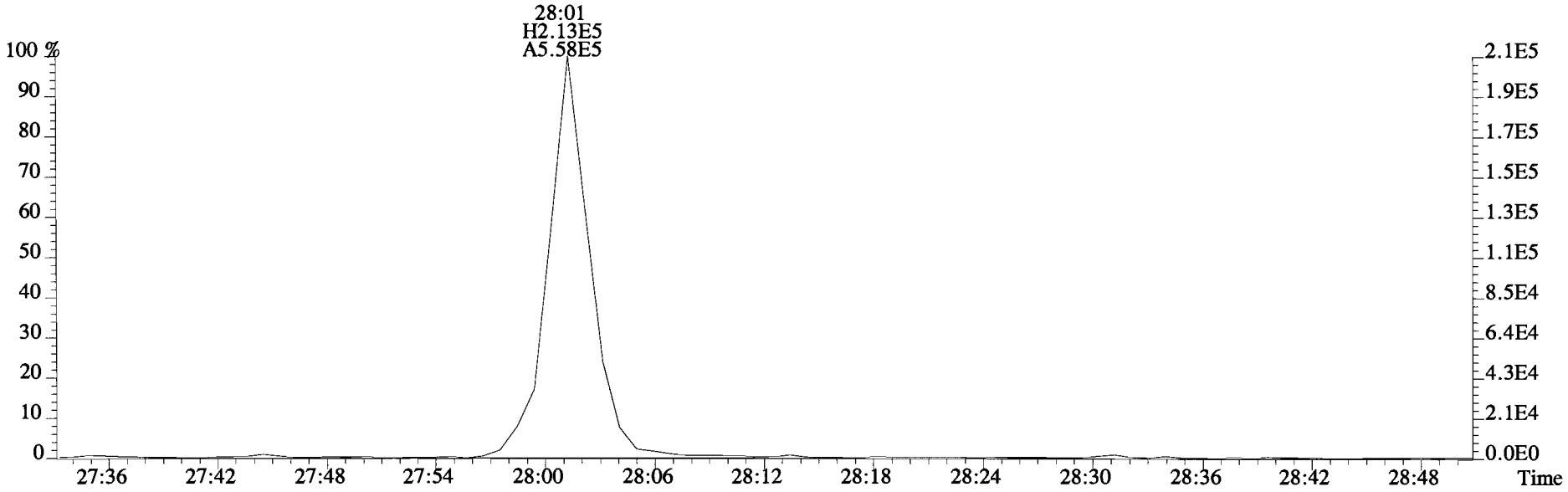
305.8987 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



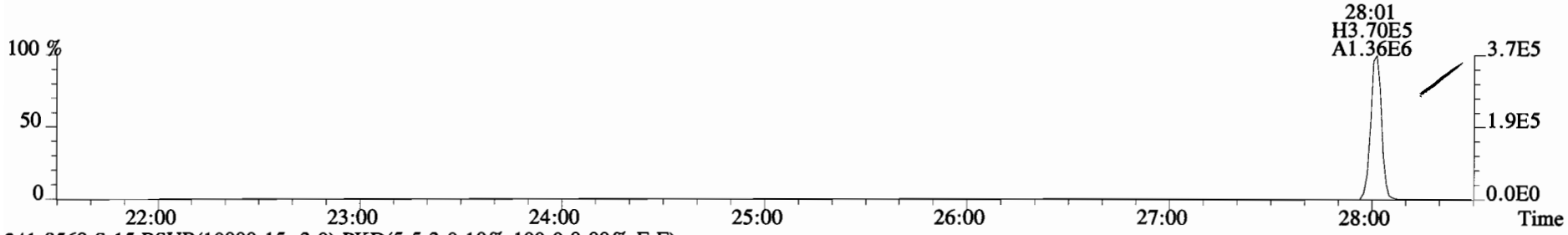
File:141027D1 #1-552 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
303.9016 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



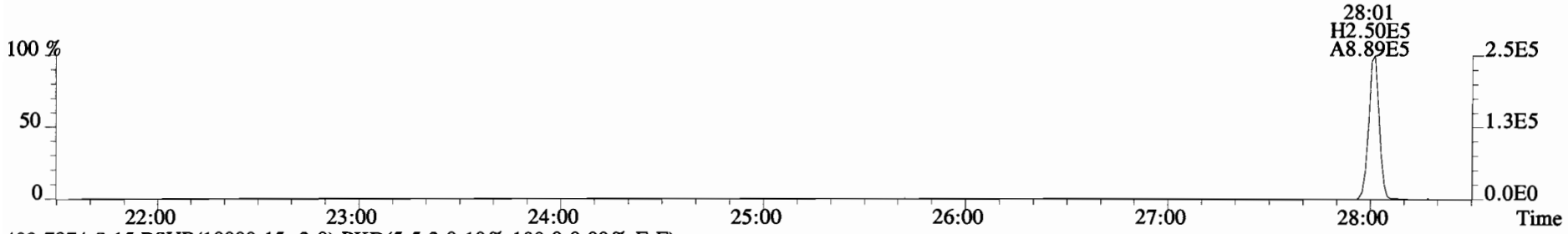
305.8987 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



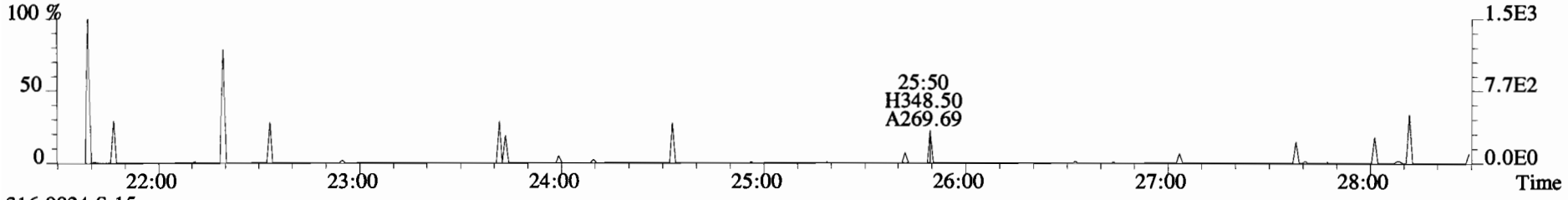
File:141027D1 #1-552 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
339.8597 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



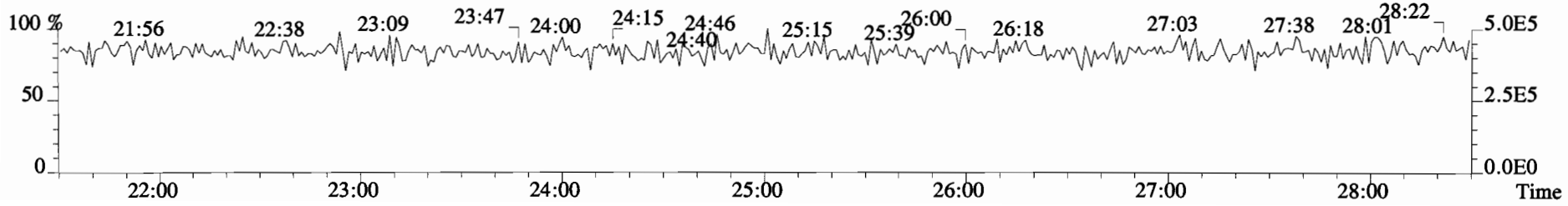
341.8568 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



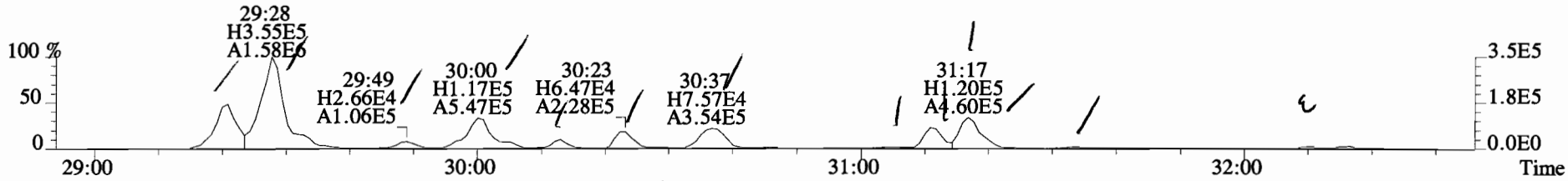
409.7974 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



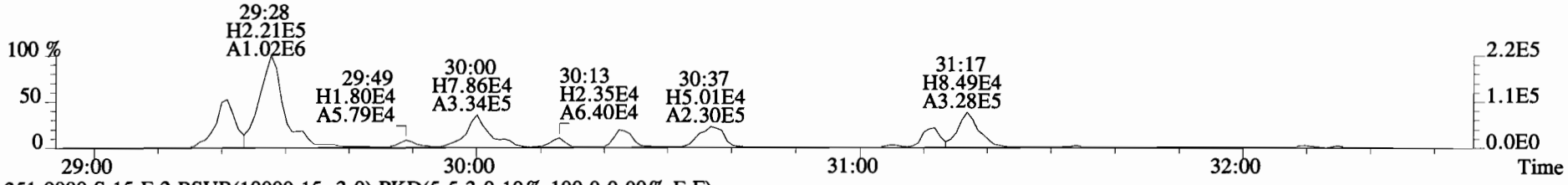
316.9824 S:15



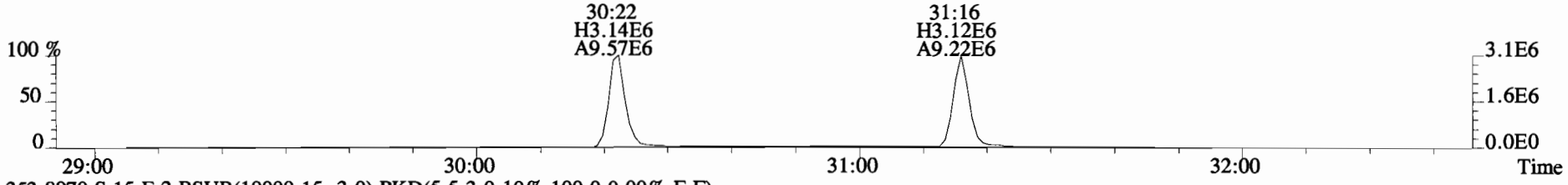
File:141027D1 #1-256 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
339.8597 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



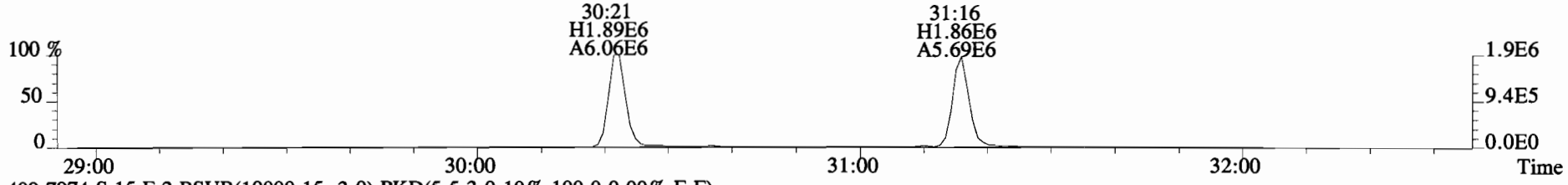
341.8568 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



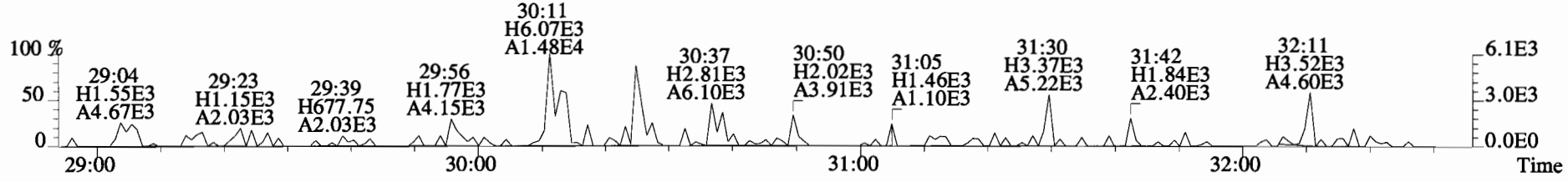
351.9000 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

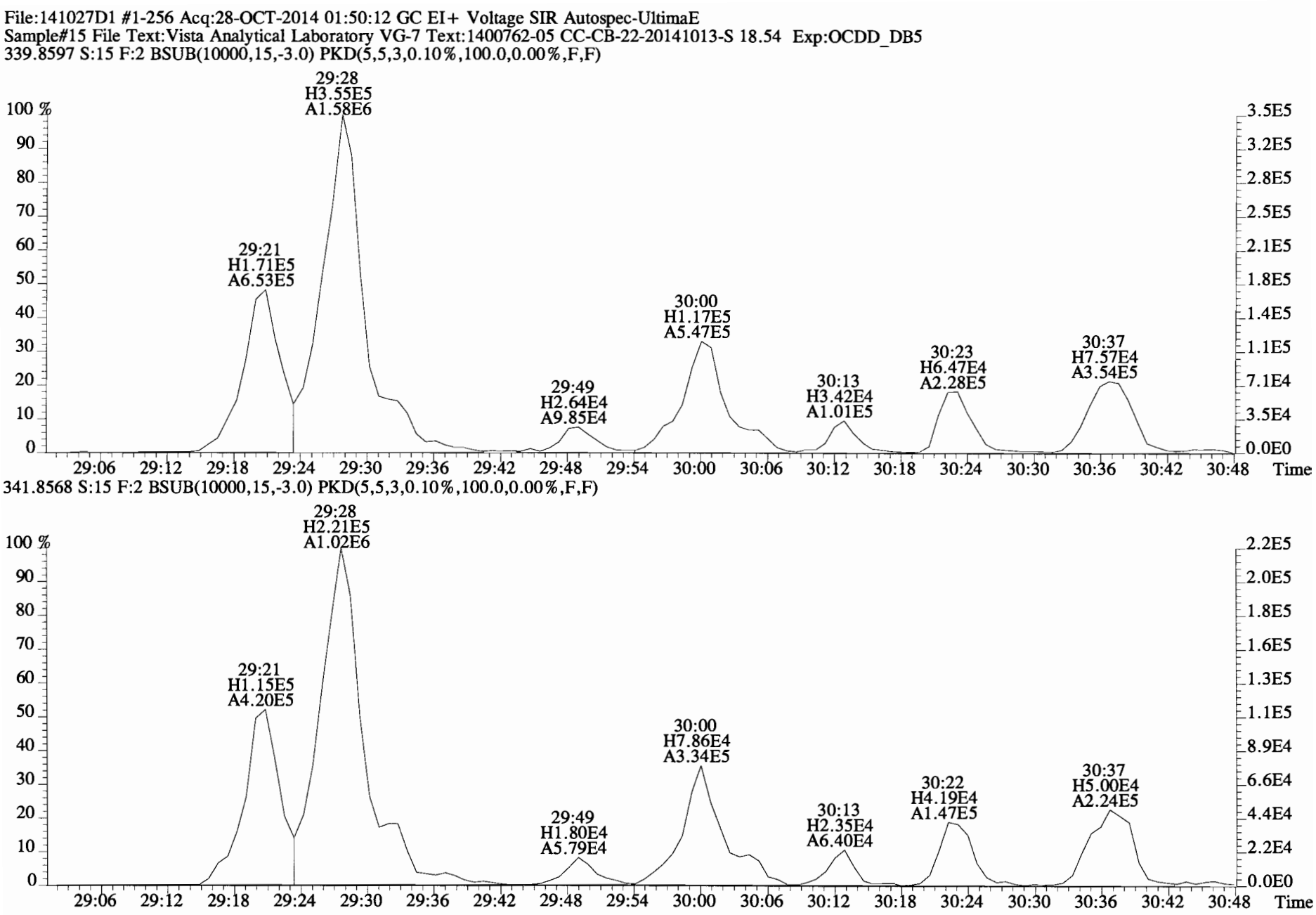


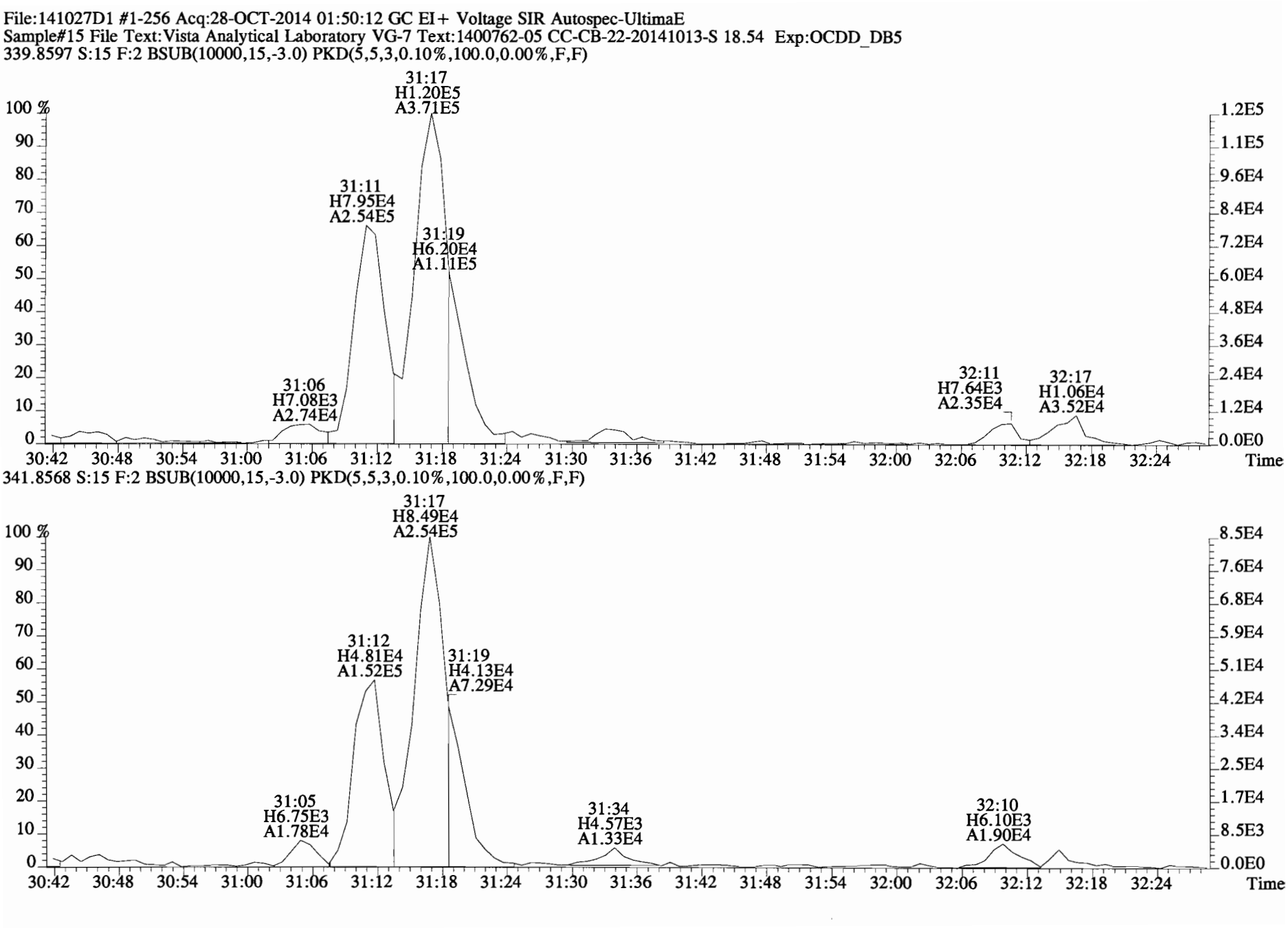
353.8970 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

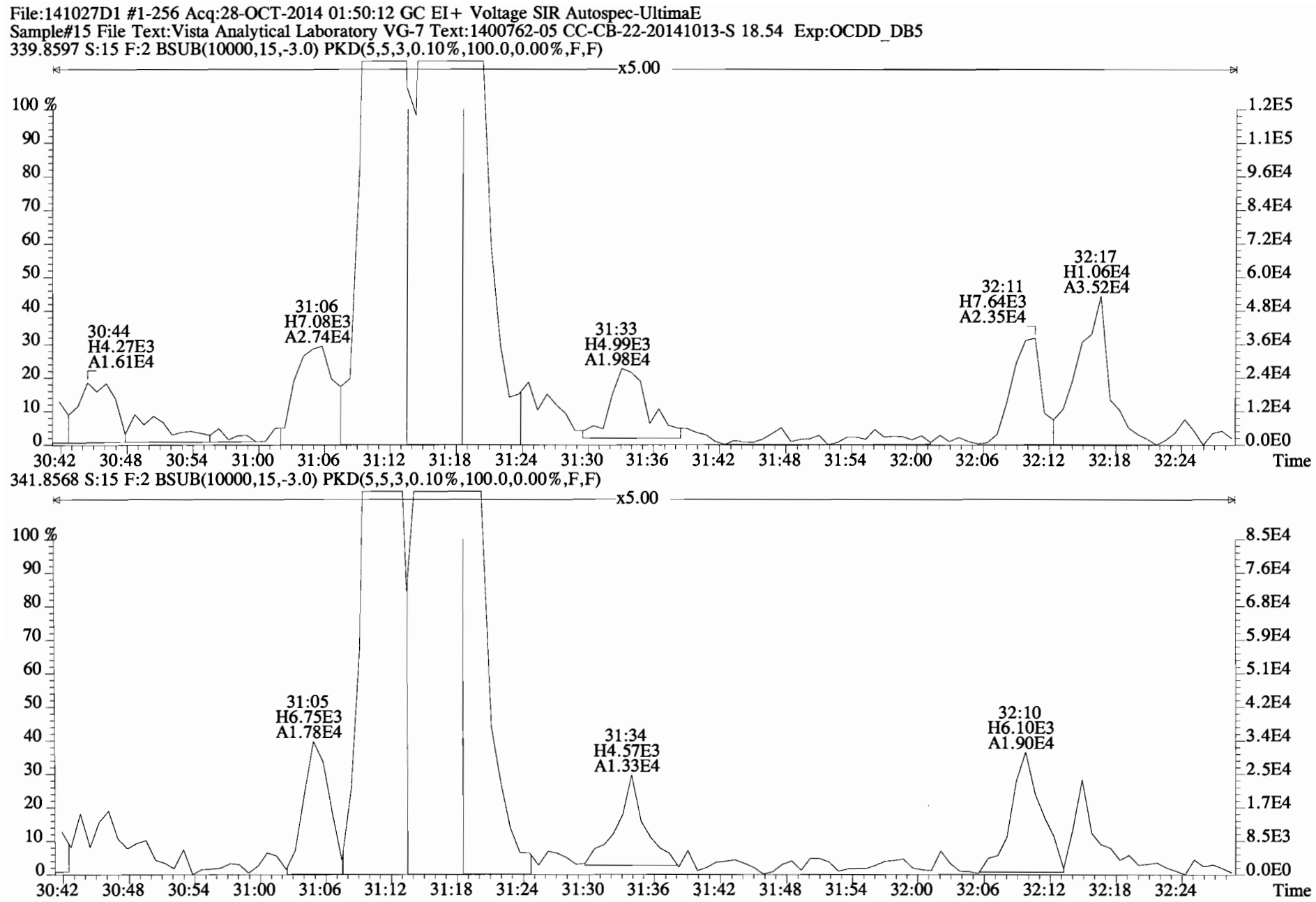


409.7974 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

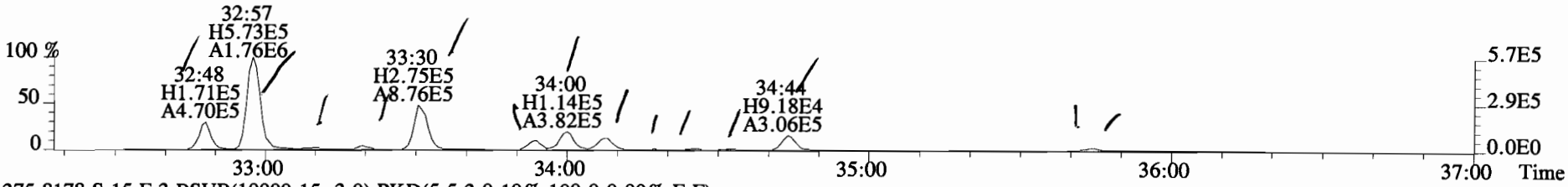



File:141027D1 #1-256 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
339.8597 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
29:28 H3.55E5 A1.58E6
29:21 H1.71E5 A6.53E5
29:49 H2.64E4 A9.85E4
30:00 H1.17E5 A5.47E5
30:13 H3.42E4 A1.01E5
30:23 H6.47E4 A2.28E5
30:37 H7.57E4 A3.54E5
100 %
Time
341.8568 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
29:28 H2.21E5 A1.02E6
29:21 H1.15E5 A4.20E5
29:49 H1.80E4 A5.79E4
30:00 H7.86E4 A3.34E5
30:13 H2.35E4 A6.40E4
30:22 H4.19E4 A1.47E5
30:37 H5.00E4 A2.24E5
100 %
Time

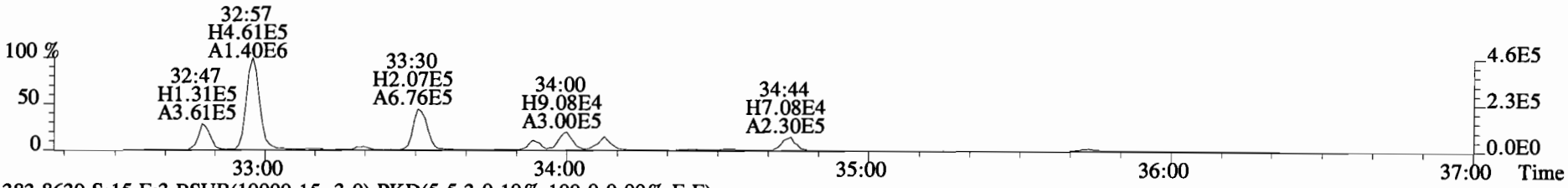

File:141027D1 #1-256 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
339.8597 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
31:17
H1.20E5
A3.71E5
31:11
H7.95E4
A2.54E5
31:19
H6.20E4
A1.11E5
31:06
H7.08E3
A2.74E4
32:11
H7.64E3
A2.35E4
32:17
H1.06E4
A3.52E4
100 %
90
80
70
60
50
40
30
20
10
0
1.2E5
1.1E5
9.6E4
8.4E4
7.2E4
6.0E4
4.8E4
3.6E4
2.4E4
1.2E4
0.0E0
30:42
30:48
30:54
31:00
31:06
31:12
31:18
31:24
31:30
31:36
31:42
31:48
31:54
32:00
32:06
32:12
32:18
32:24
Time
341.8568 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
31:17
H8.49E4
A2.54E5
31:12
H4.81E4
A1.52E5
31:19
H4.13E4
A7.29E4
31:05
H6.75E3
A1.78E4
31:34
H4.57E3
A1.33E4
32:10
H6.10E3
A1.90E4
100 %
90
80
70
60
50
40
30
20
10
0
8.5E4
7.6E4
6.8E4
5.9E4
5.1E4
4.2E4
3.4E4
2.5E4
1.7E4
8.5E3
0.0E0
30:42
30:48
30:54
31:00
31:06
31:12
31:18
31:24
31:30
31:36
31:42
31:48
31:54
32:00
32:06
32:12
32:18
32:24
Time


File:141027D1 #1-256 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
339.8597 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
x5.00
30:44
H4.27E3
A1.61E4
31:06
H7.08E3
A2.74E4
31:33
H4.99E3
A1.98E4
32:11
H7.64E3
A2.35E4
32:17
H1.06E4
A3.52E4
Time
341.8568 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
x5.00
31:05
H6.75E3
A1.78E4
31:34
H4.57E3
A1.33E4
32:10
H6.10E3
A1.90E4
Time

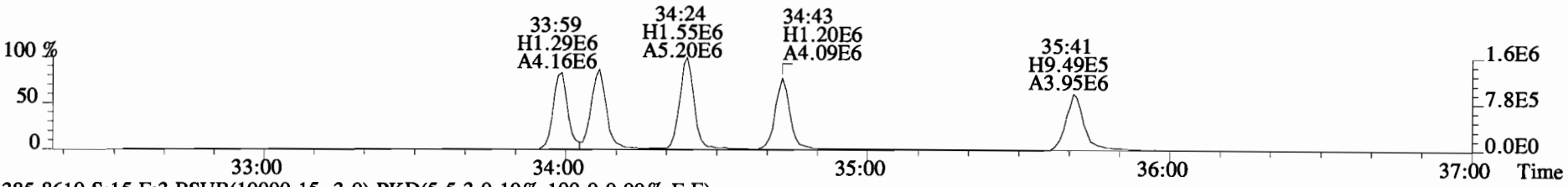
File:141027D1 #1-385 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
373.8207 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



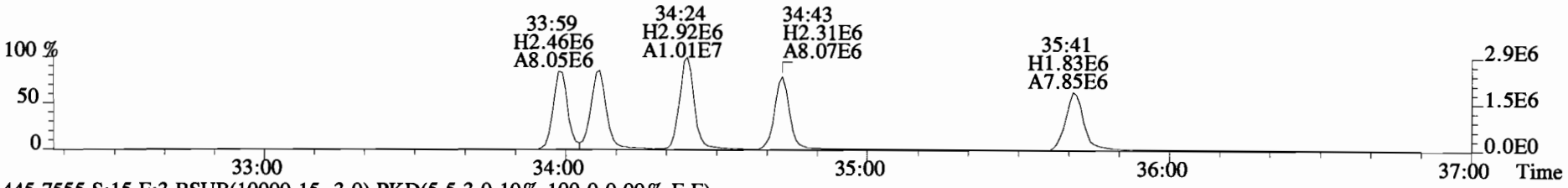
375.8178 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



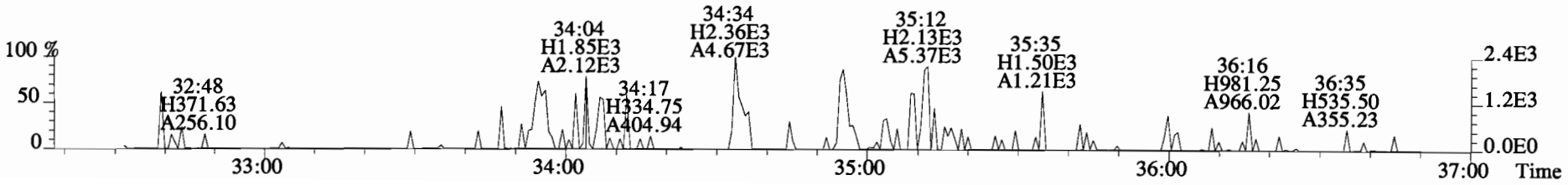
383.8639 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



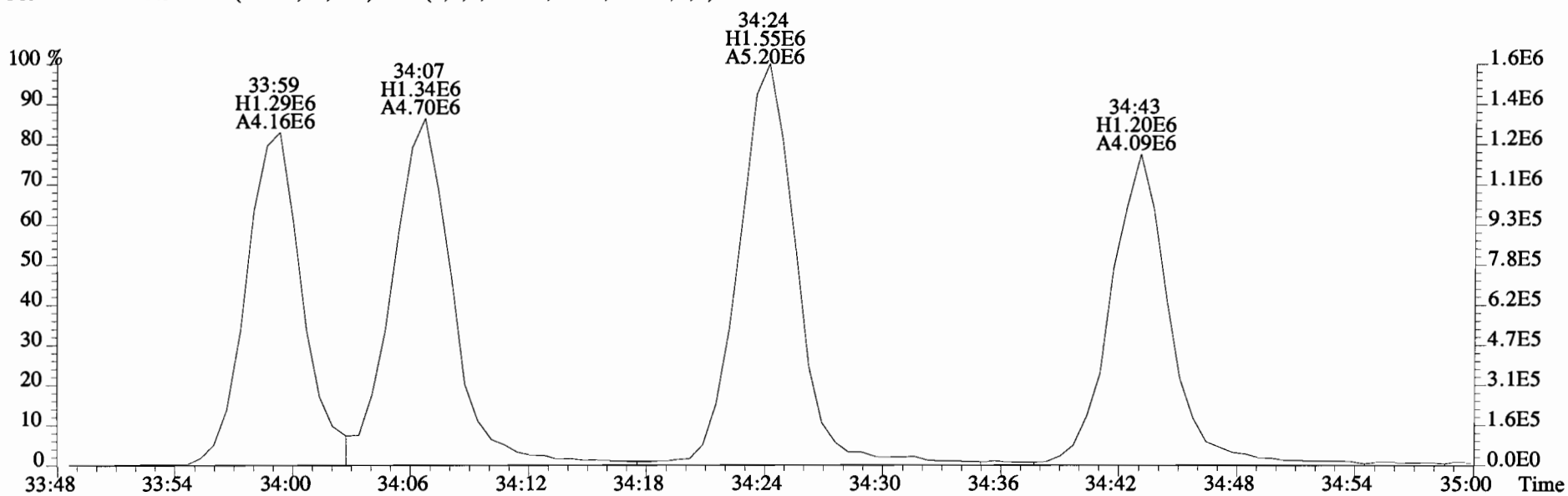
385.8610 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



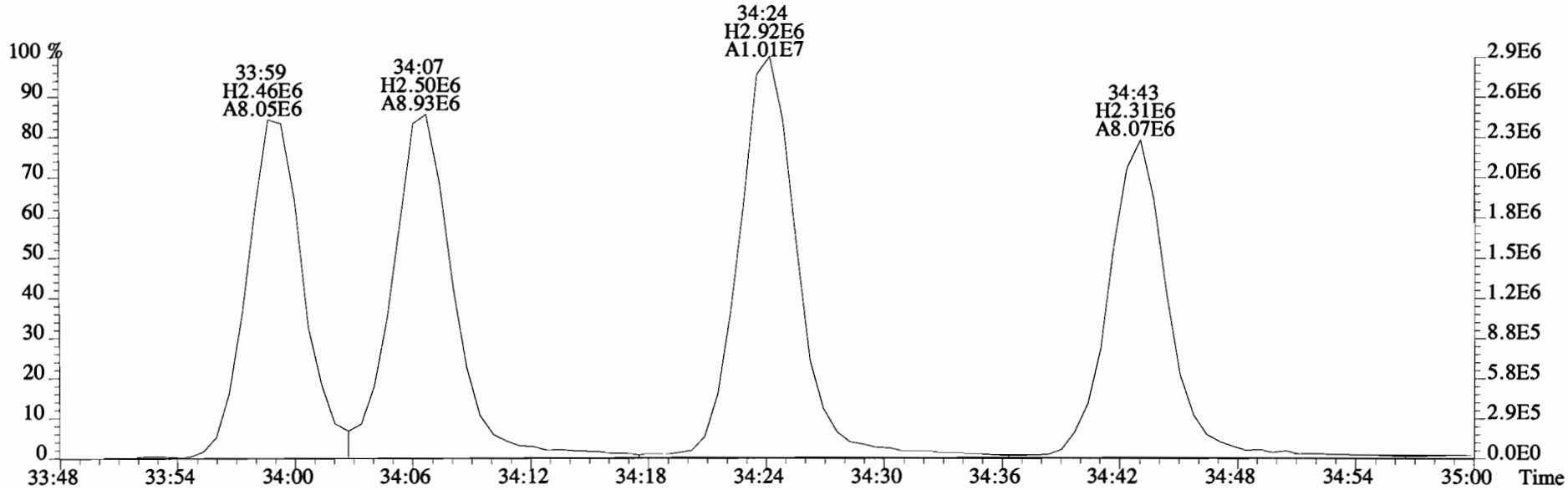
445.7555 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



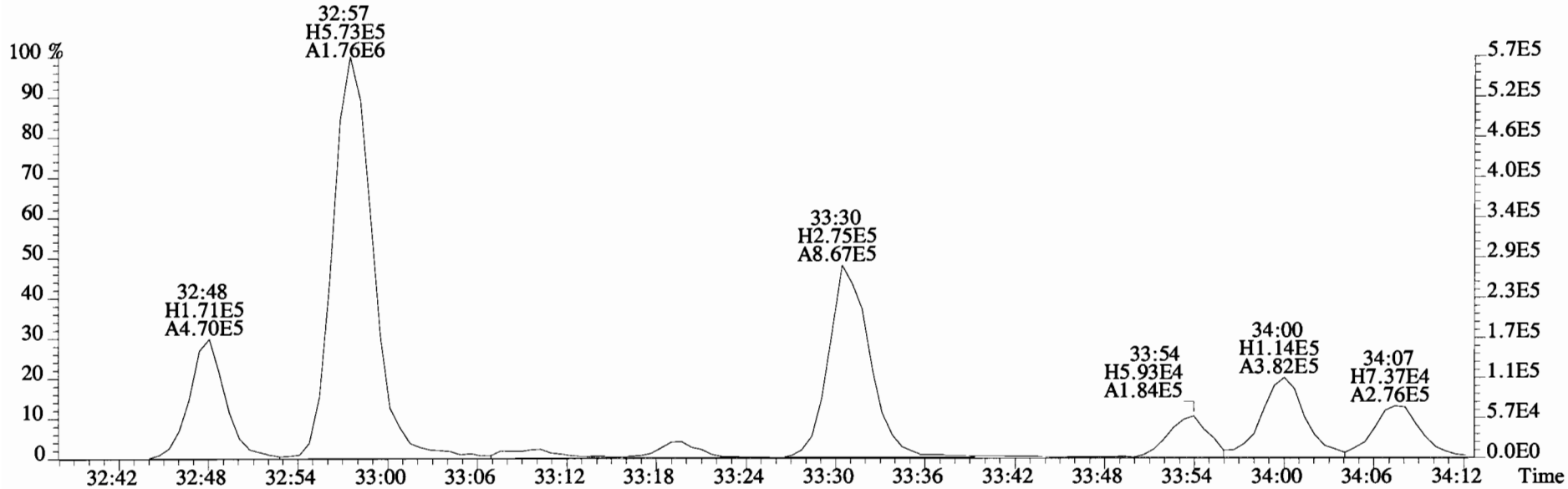
File:141027D1 #1-385 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
383.8639 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



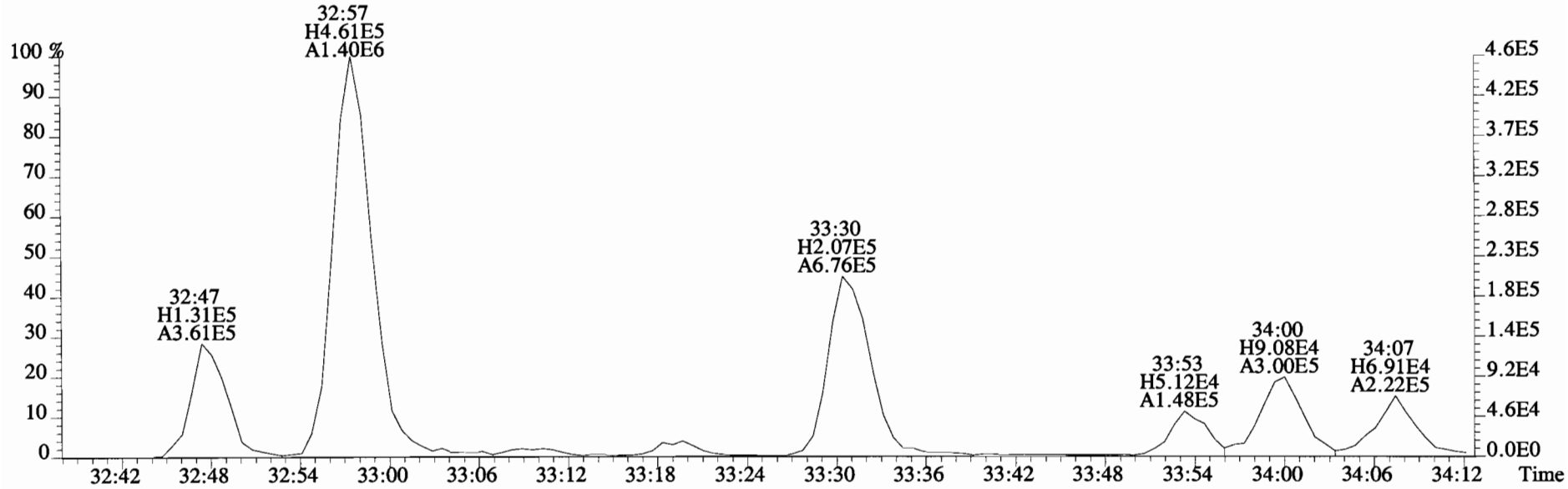
385.8610 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



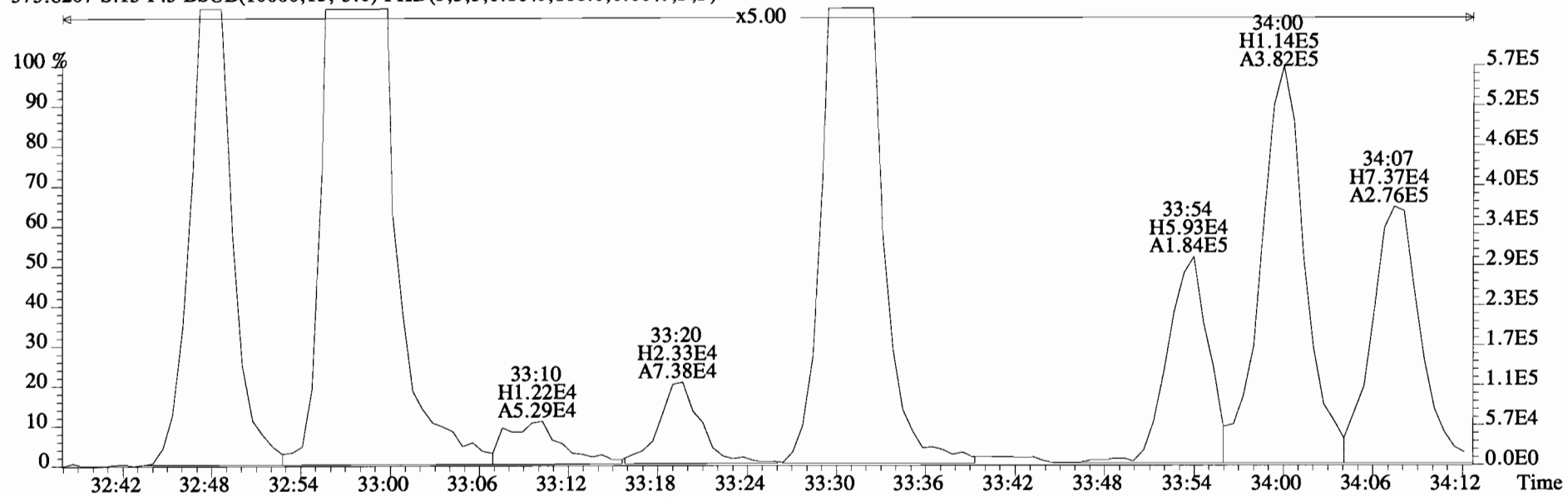
File:141027D1 #1-385 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
373.8207 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



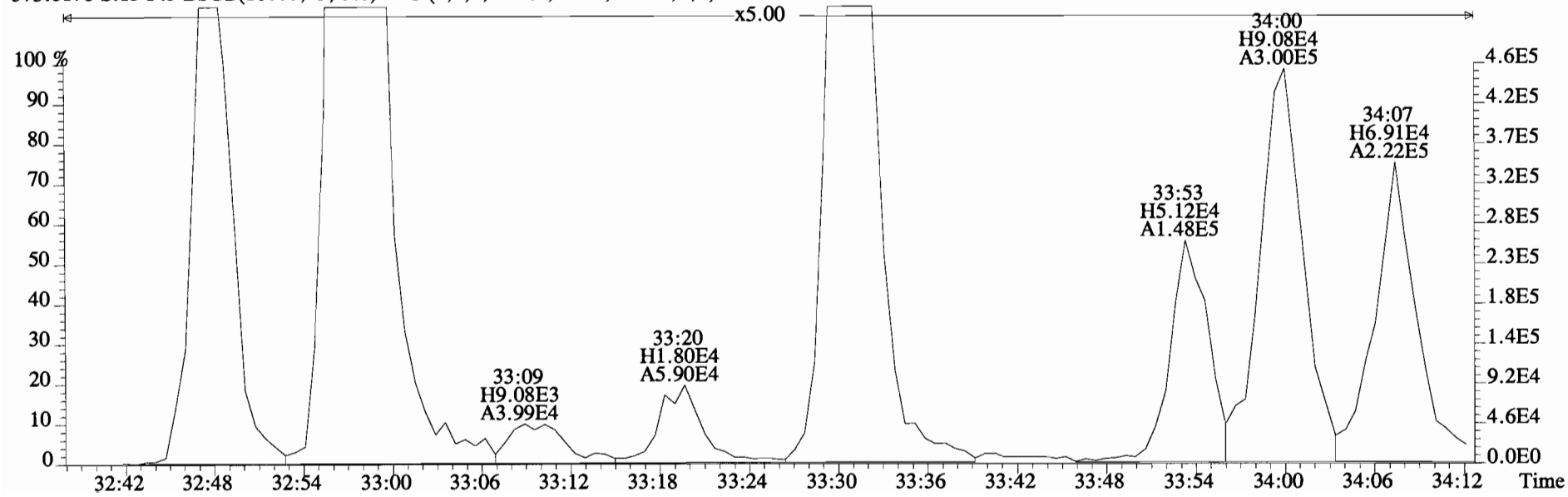
375.8178 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



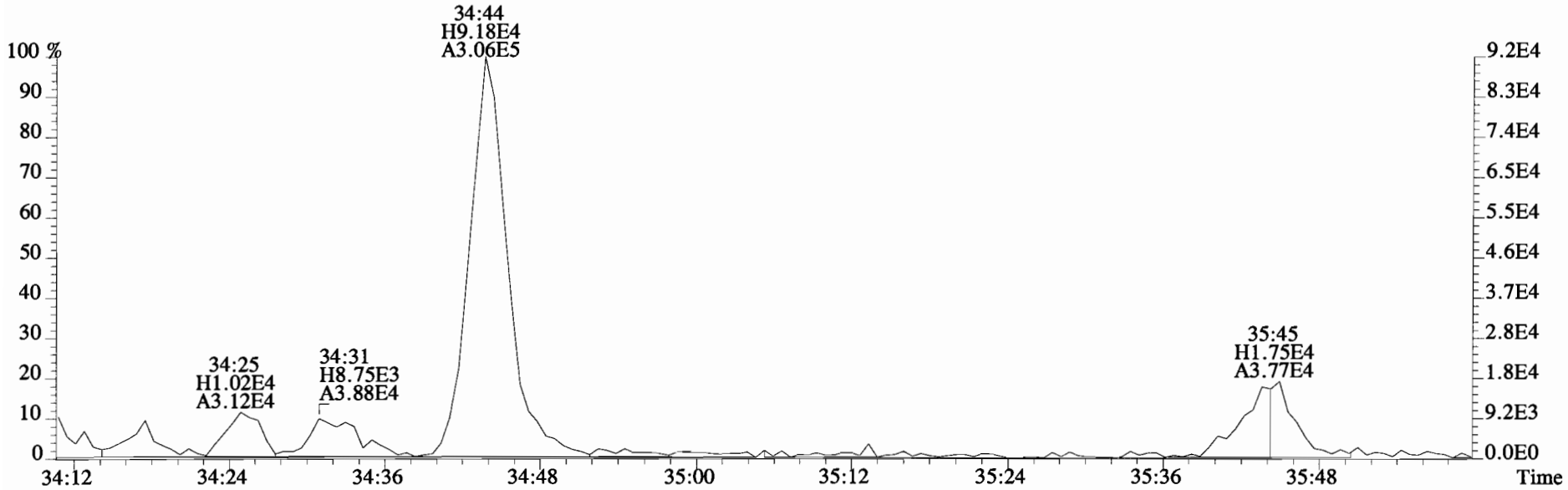
File:141027D1 #1-385 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
373.8207 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



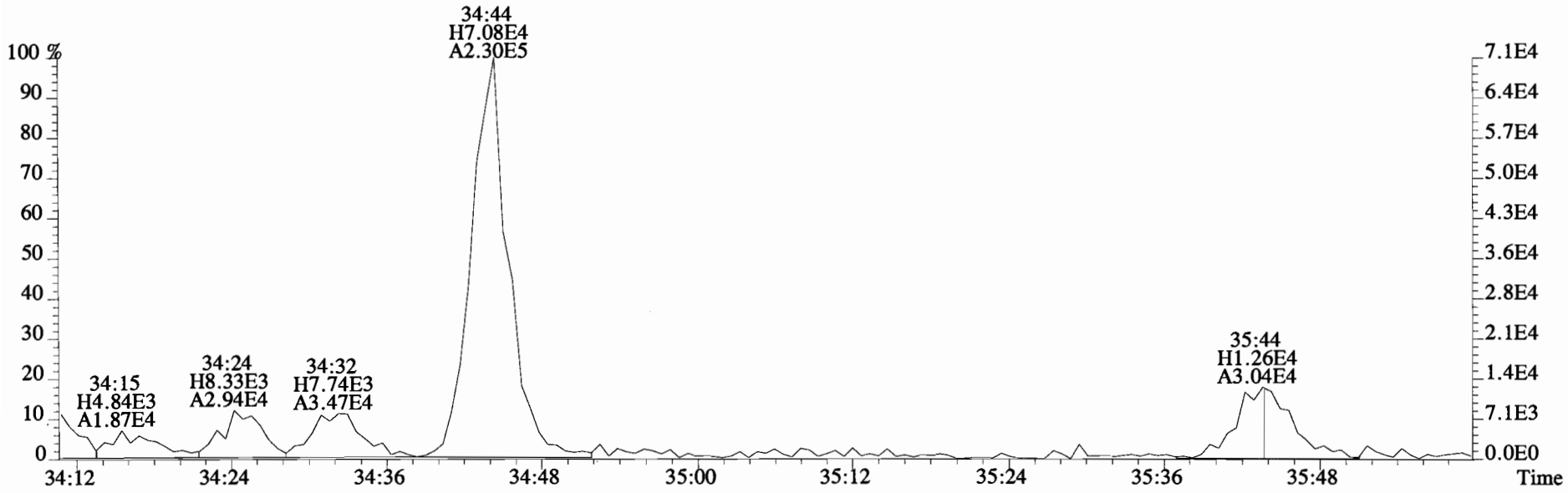
375.8178 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



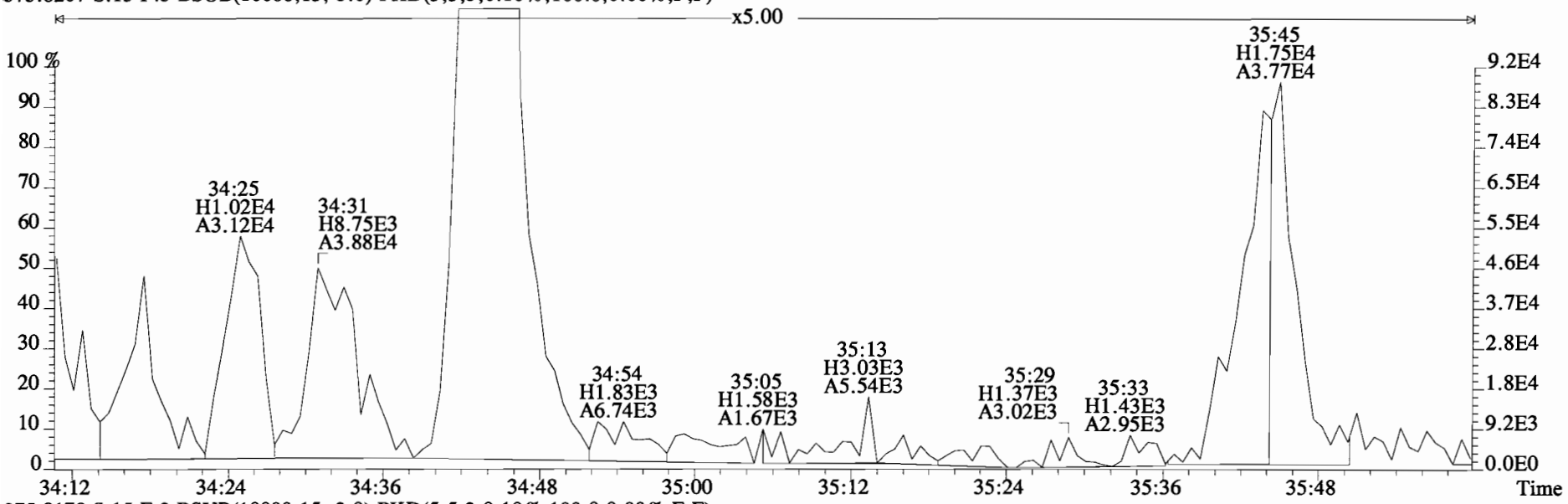
File:141027D1 #1-385 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
373.8207 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



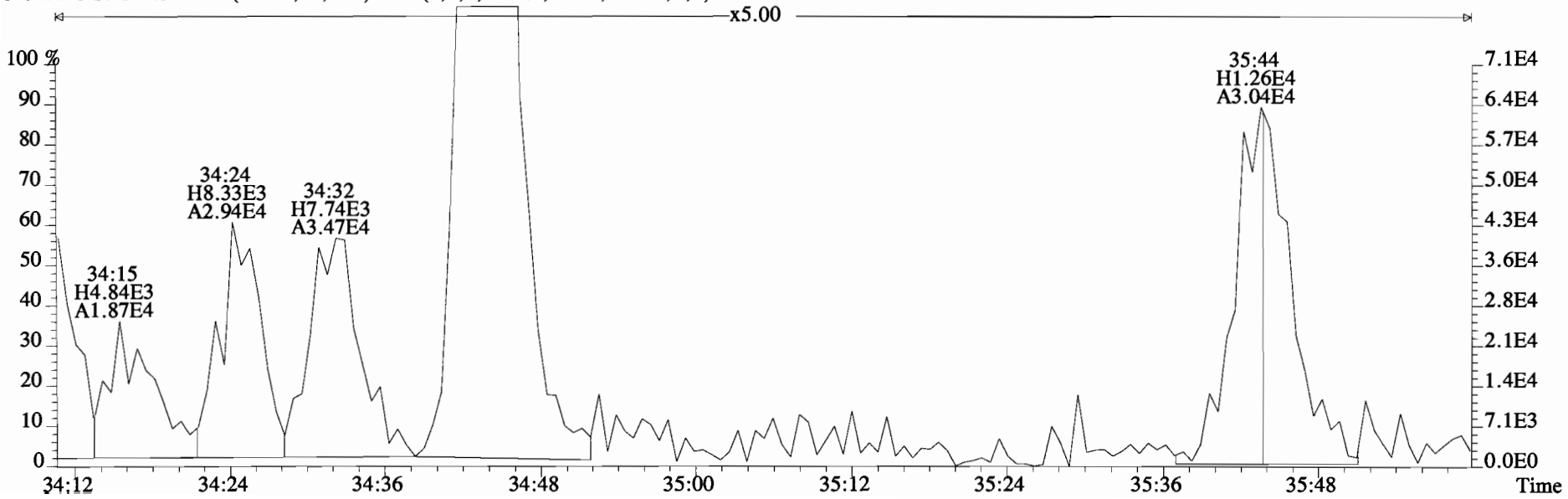
375.8178 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:141027D1 #1-385 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
373.8207 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

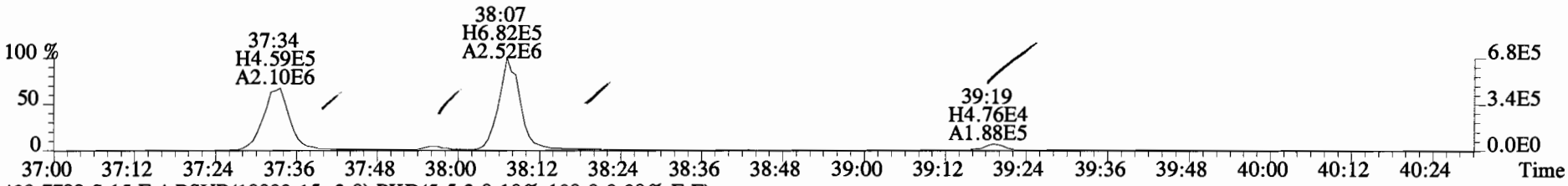


375.8178 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

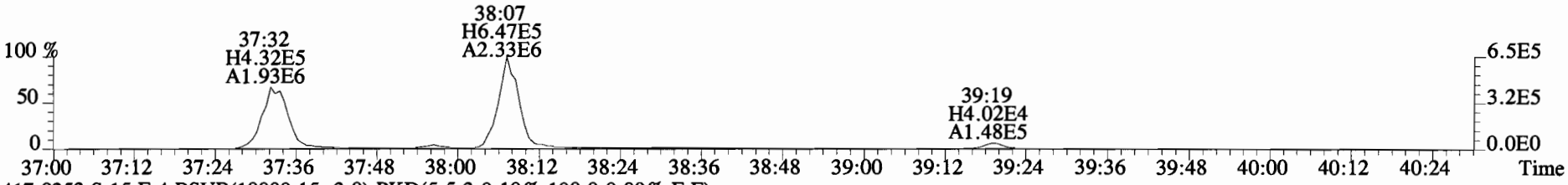


File:141027D1 #1-326 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5

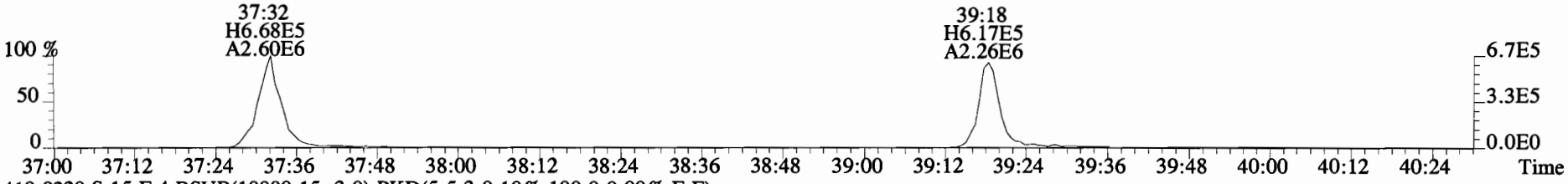
407.7818 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



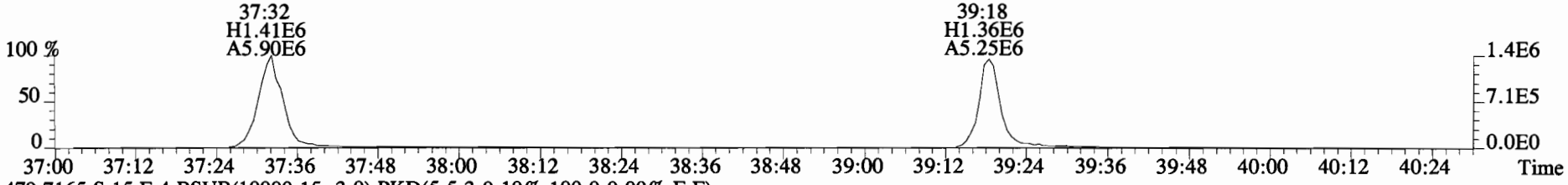
409.7788 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



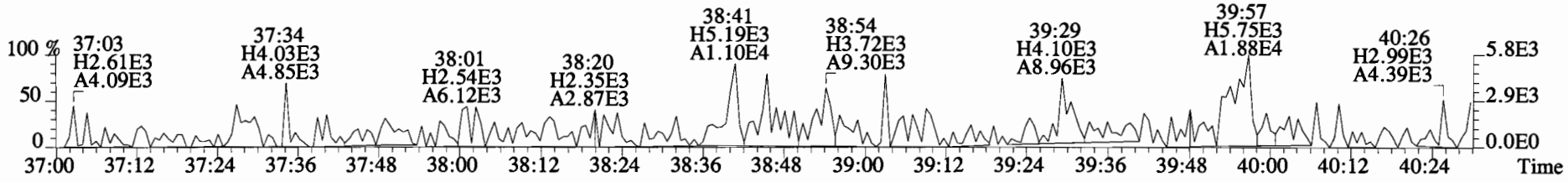
417.8253 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



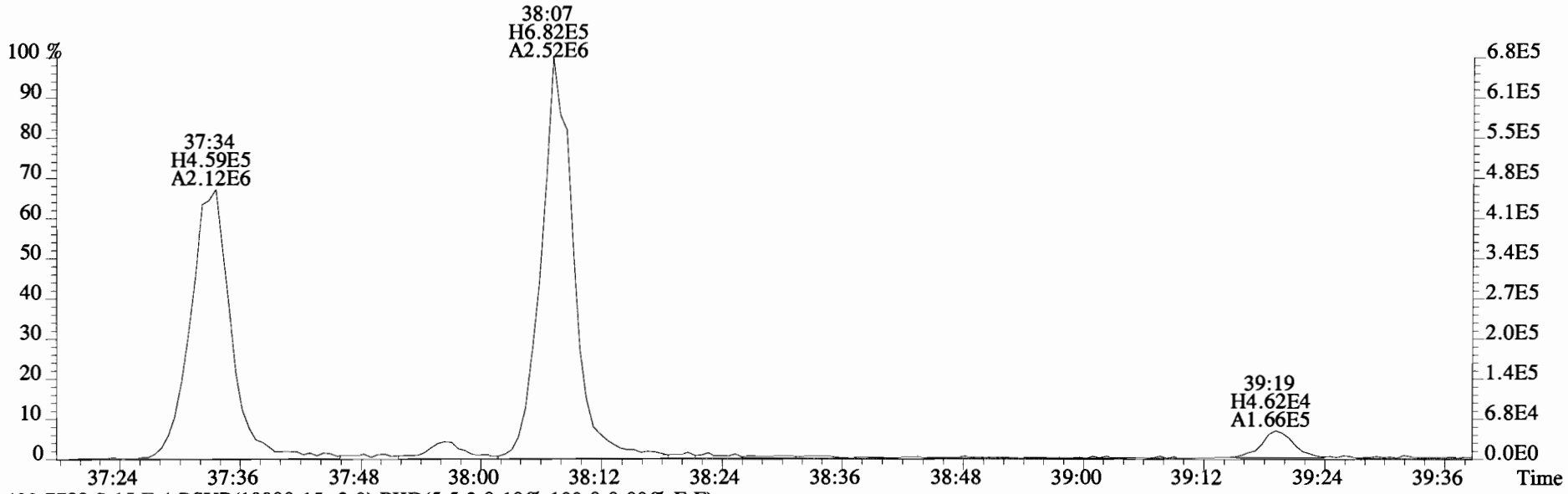
419.8220 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



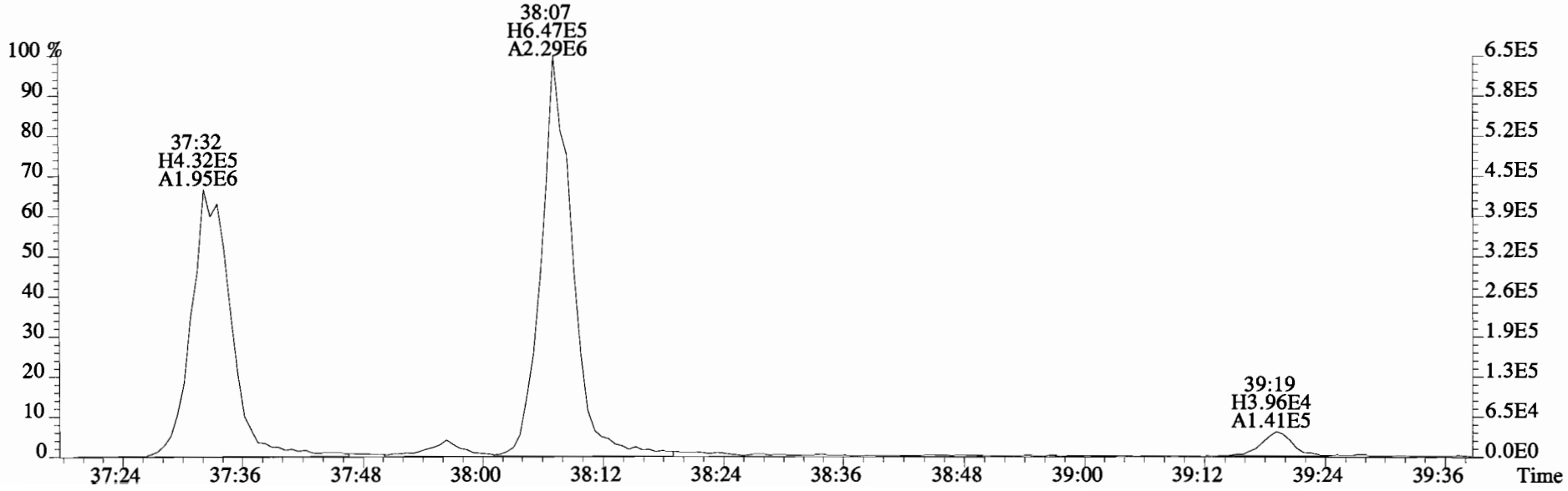
479.7165 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



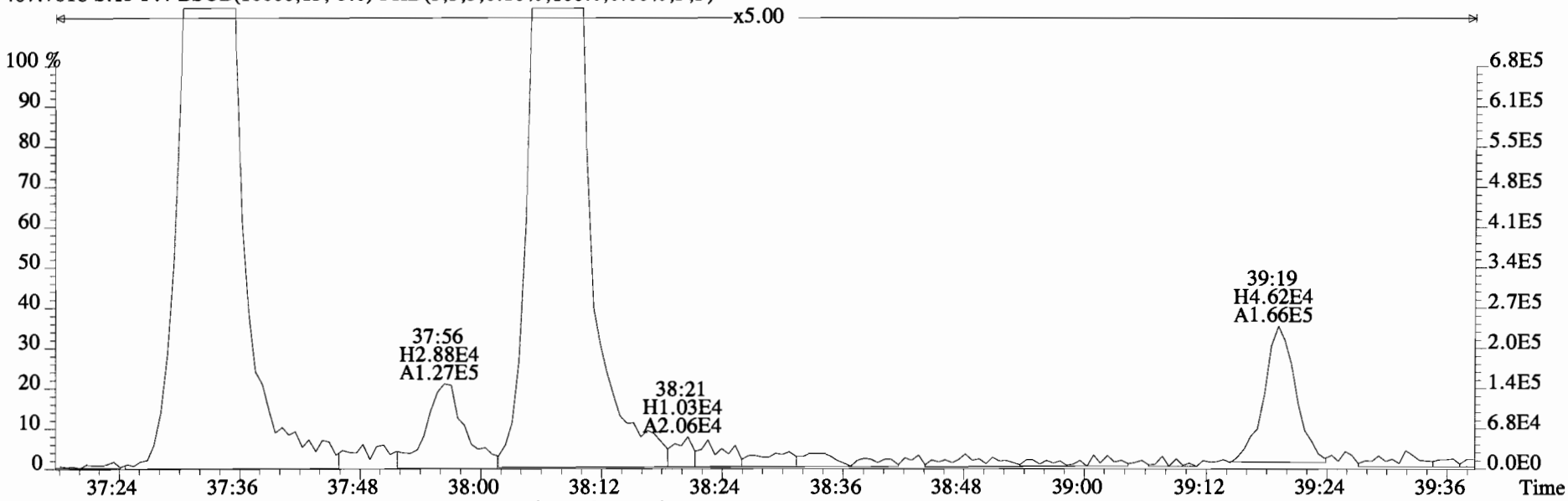
File:141027D1 #1-326 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
407.7818 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



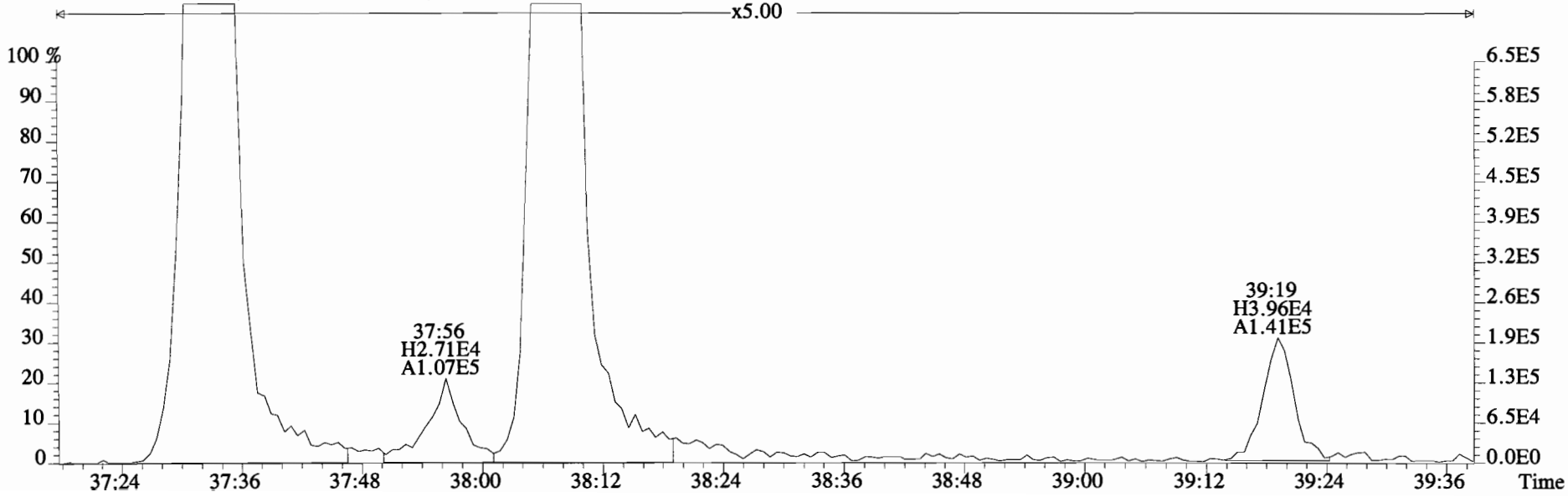
409.7788 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



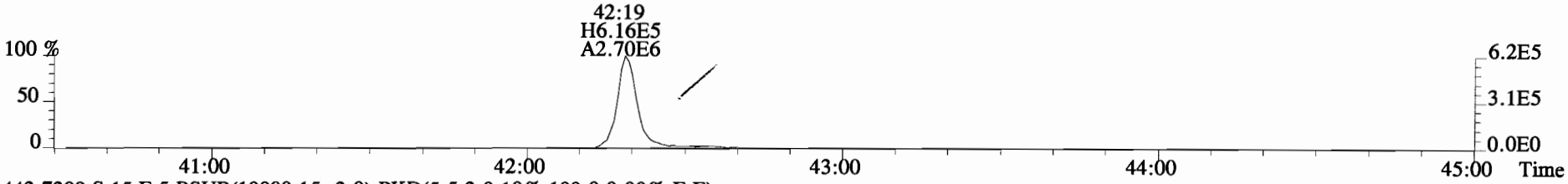
File:141027D1 #1-326 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
407.7818 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



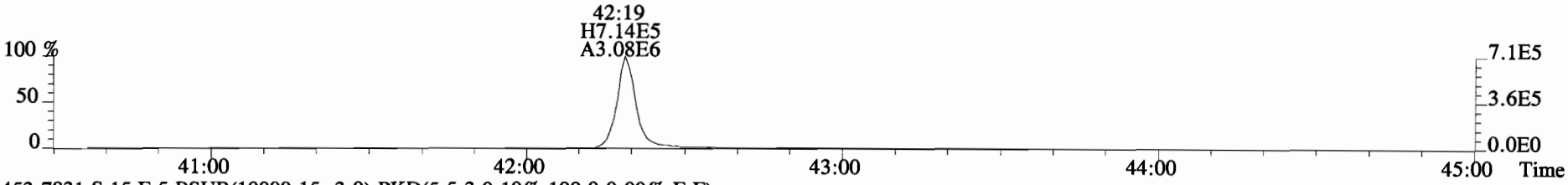
409.7788 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



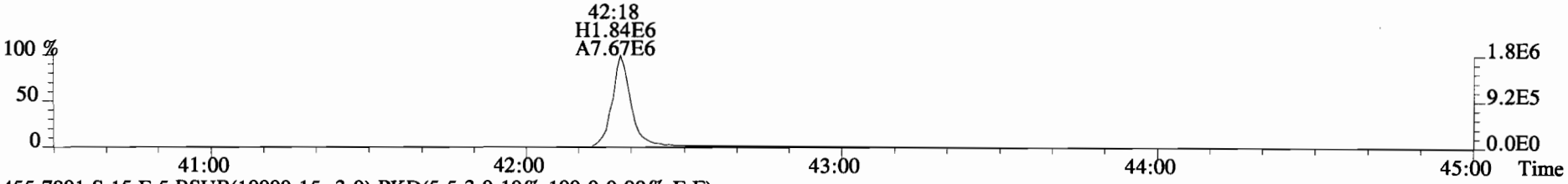
File:141027D1 #1-388 Acq:28-OCT-2014 01:50:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05 CC-CB-22-20141013-S 18.54 Exp:OCDD_DB5
441.7428 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



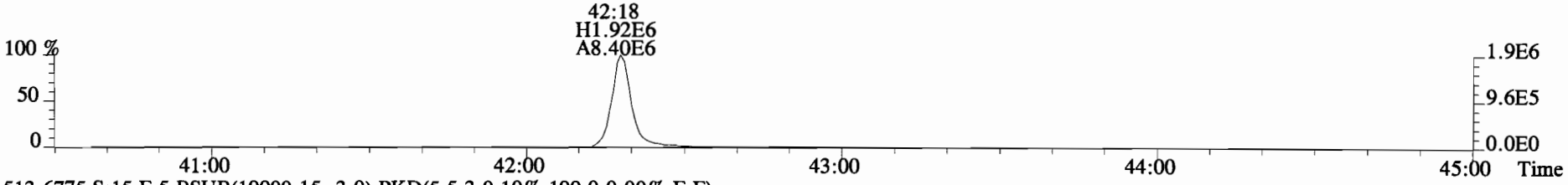
443.7398 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



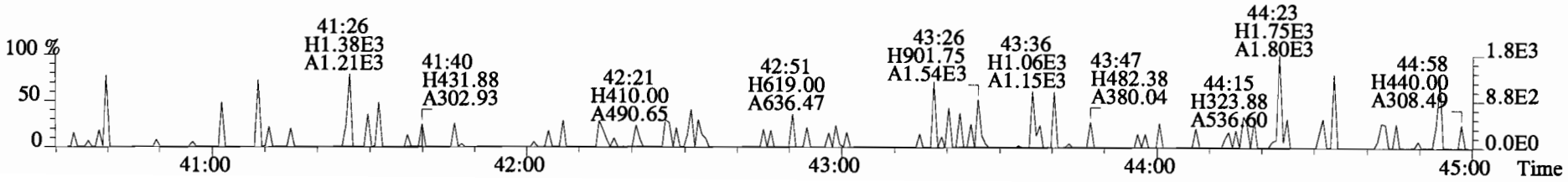
453.7831 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



SAMPLE DATA

EPA Method 1668C

Client ID: Method Blank Filename: 141021E2 S:6 Acq:22-OCT-14 01:30:11 ConCal: ST141021E2-1
Lab ID: B4J0110-BLK1 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Mono	PCB-1	*	*	n NotFnd	1.25	*		5260	2.5	2.00	*	0.996-1.006
Mono	PCB-2	*	*	n NotFnd	1.18	*		5260	2.5	2.12	*	0.983-0.993
Mono	PCB-3	*	*	n NotFnd	1.22	*		5260	2.5	2.05	*	0.996-1.006
Di	PCB-4/10	*	*	n NotFnd	1.55	*		17500	2.5	7.79	*	0.998-1.008
Di	PCB-7/9	*	*	n NotFnd	1.27	*		17500	2.5	6.05	*	0.865-0.873
Di	PCB-6	*	*	n NotFnd	1.26	*		17500	2.5	6.09	*	0.890-0.899
Di	PCB-5/8	*	*	n NotFnd	1.23	*		17500	2.5	6.22	*	0.906-0.916
Di	PCB-14	*	*	n NotFnd	1.23	*		17500	2.5	5.24	*	0.949-0.959
Di	PCB-11	1.82e+06	1.54	y 25:19	1.16	23.5		*	2.5	*	1.001	0.996-1.006
Di	PCB-12/13	*	*	n NotFnd	1.10	*		17500	2.5	5.88	*	1.010-1.020
Di	PCB-15	*	*	n NotFnd	1.21	*		17500	2.5	5.35	*	1.024-1.034
Tri	PCB-19	*	*	n NotFnd	1.30	*		2660	2.5	0.954	*	0.996-1.006
Tri	PCB-30	*	*	n NotFnd	1.83	*		2660	2.5	0.675	*	1.032-1.042
Tri	PCB-18	1.11e+05	1.07	y 25:56	0.86	1.89		*	2.5	*	0.955	0.949-0.959
Tri	PCB-17	*	*	n NotFnd	0.90	*		2660	2.5	0.858	*	0.955-0.965
Tri	PCB-24/27	*	*	n NotFnd	1.18	*		2660	2.5	0.656	*	0.976-0.986
Tri	PCB-16/32	1.26e+05	1.18	y 27:10	1.03	1.81		*	2.5	*	1.000	0.995-1.005
Tri	PCB-34	*	*	n NotFnd	1.26	*		2170	2.5	0.636	*	0.956-0.966
Tri	PCB-23	*	*	n NotFnd	1.31	*		2170	2.5	0.612	*	0.959-0.969
Tri	PCB-29	*	*	n NotFnd	1.33	*		2170	2.5	0.604	*	0.967-0.977
Tri	PCB-26	*	*	n NotFnd	1.29	*		2170	2.5	0.621	*	0.974-0.984
Tri	PCB-25	*	*	n NotFnd	1.34	*		2170	2.5	0.598	*	0.980-0.990
Tri	PCB-31	1.01e+05	0.91	y 29:00	1.42	1.10		*	2.5	*	0.997	0.992-1.002
Tri	PCB-28	9.60e+04	1.16	y 29:07	1.38	1.08		*	2.5	*	1.001	0.996-1.006
Tri	PCB-20/21/33	*	*	n NotFnd	1.31	*		2170	2.5	0.612	*	1.017-1.027
Tri	PCB-22	*	*	n NotFnd	1.32	*		2170	2.5	0.607	*	1.032-1.042
Tri	PCB-36	*	*	n NotFnd	1.38	*		2170	2.5	0.607	*	0.929-0.939
Tri	PCB-39	*	*	n NotFnd	1.42	*		2170	2.5	0.588	*	0.943-0.953
Tri	PCB-38	*	*	n NotFnd	1.35	*		2170	2.5	0.617	*	0.967-0.976
Tri	PCB-35	*	*	n NotFnd	1.38	*		2170	2.5	0.607	*	0.982-0.992
Tri	PCB-37	*	*	n NotFnd	1.39	*		2170	2.5	0.600	*	0.996-1.006
Tetra	PCB-54	*	*	n NotFnd	1.20	*		2480	2.5	0.782	*	0.996-1.006
Tetra	PCB-50	*	*	n NotFnd	0.97	*		2480	2.5	0.968	*	1.037-1.047
Tetra	PCB-53	*	*	n NotFnd	1.19	*		2480	2.5	0.905	*	0.941-0.951
Tetra	PCB-51	*	*	n NotFnd	1.15	*		2480	2.5	0.933	*	0.952-0.962
Tetra	PCB-45	*	*	n NotFnd	0.97	*		2480	2.5	1.11	*	0.966-0.976
Tetra	PCB-46	*	*	n NotFnd	0.95	*		2480	2.5	1.13	*	0.982-0.992

Integrations by:
Analyst: DmS
Date: 10/27/14

Reviewed by: [signature] Date: 10/28/14

Client ID: Method Blank Filename: 141021E2 S:6 Acq:22-OCT-14 01:30:11 ConCal: ST141021E2-1
Lab ID: B4J0110-BLK1 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Tetra	PCB-52/69	*	*	n NotF	1.28	*		2480	2.5	0.842	*	0.996-1.006
Tetra	PCB-73	*	*	n NotF	1.37	*		2480	2.5	0.784	*	1.000-1.010
Tetra	PCB-43/49	*	*	n NotF	1.11	*		2480	2.5	0.967	*	1.005-1.015
Tetra	PCB-47	*	*	n NotF	1.13	*		2480	2.5	0.908	*	0.996-1.006
Tetra	PCB-48/75	*	*	n NotF	1.30	*		2480	2.5	0.789	*	0.999-1.009
Tetra	PCB-65	*	*	n NotF	1.33	*		2480	2.5	0.771	*	1.007-1.017
Tetra	PCB-62	*	*	n NotF	1.29	*		2480	2.5	0.796	*	1.011-1.021
Tetra	PCB-44	*	*	n NotF	0.94	*		2480	2.5	1.09	*	1.020-1.030
Tetra	PCB-42/59	*	*	n NotF	1.22	*		2480	2.5	0.845	*	1.028-1.038
Tetra	PCB-41/64/71/72	*	*	n NotF	1.31	*		2480	2.5	0.784	*	1.046-1.056
Tetra	PCB-68	*	*	n NotF	1.49	*		2480	2.5	0.693	*	1.054-1.064
Tetra	PCB-40	*	*	n NotF	0.82	*		2480	2.5	1.26	*	1.061-1.071
Tetra	PCB-57	*	*	n NotF	1.11	*		2480	2.5	0.652	*	0.965-0.975
Tetra	PCB-67	*	*	n NotF	1.07	*		2480	2.5	0.677	*	0.974-0.984
Tetra	PCB-58	*	*	n NotF	1.10	*		2480	2.5	0.659	*	0.977-0.987
Tetra	PCB-63	*	*	n NotF	1.12	*		2480	2.5	0.650	*	0.982-0.992
Tetra	PCB-74	*	*	n NotF	1.20	*		2480	2.5	0.604	*	0.990-1.000
Tetra	PCB-61/70	*	*	n NotF	1.08	*		2480	2.5	0.673	*	0.994-1.004
Tetra	PCB-76/66	*	*	n NotF	1.14	*		2480	2.5	0.639	*	1.001-1.011
Tetra	PCB-80	*	*	n NotF	1.28	*		2480	2.5	0.571	*	0.996-1.006
Tetra	PCB-55	*	*	n NotF	1.11	*		2480	2.5	0.657	*	1.005-1.015
Tetra	PCB-56/60	*	*	n NotF	1.09	*		2480	2.5	0.671	*	1.018-1.028
Tetra	PCB-79	*	*	n NotF	1.12	*		2480	2.5	0.649	*	1.048-1.058
Tetra	PCB-78	*	*	n NotF	1.24	*		2480	2.5	0.682	*	0.982-0.992
Tetra	PCB-81	*	*	n NotF	1.38	*		2480	2.5	0.611	*	0.995-1.005
Tetra	PCB-77	*	*	n NotF	1.21	*		2480	2.5	0.637	*	0.995-1.005
Penta	PCB-104	*	*	n NotF	1.26	*		3350	2.5	1.87	*	0.996-1.006
Penta	PCB-96	*	*	n NotF	1.09	*		3350	2.5	2.15	*	1.034-1.044
Penta	PCB-103	*	*	n NotF	0.93	*		3350	2.5	2.52	*	1.050-1.060
Penta	PCB-100	*	*	n NotF	1.00	*		3350	2.5	2.34	*	1.061-1.071
Penta	PCB-94	*	*	n NotF	1.11	*		3350	2.5	2.79	*	0.981-0.991
Penta	PCB-95/98/102	*	*	n NotF	1.21	*		3350	2.5	2.55	*	0.994-1.004
Penta	PCB-93	*	*	n NotF	1.13	*		3350	2.5	2.74	*	0.998-1.008
Penta	PCB-88/91	*	*	n NotF	1.02	*		3350	2.5	3.04	*	1.006-1.016
Penta	PCB-121	*	*	n NotF	1.90	*		3350	2.5	1.63	*	1.009-1.019
Penta	PCB-84/92	*	*	n NotF	1.05	*		3350	2.5	2.80	*	0.986-0.996
Penta	PCB-89	*	*	n NotF	1.02	*		3350	2.5	2.90	*	0.991-1.001

Analyst: DMS

Date: 10/27/14

Client ID: Method Blank Filename: 141021E2 S:6 Acq:22-OCT-14 01:30:11 ConCal: ST141021E2-1

Lab ID: B4J0110-BLK1 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	*	*	n NotFnd	1.19	*		3350	2.5	2.48	*	0.996	1.006
Penta	PCB-113	*	*	n NotFnd	1.35	*		3350	2.5	2.18	*	1.002	1.012
Penta	PCB-99	*	*	n NotFnd	1.29	*		3350	2.5	2.29	*	1.005	1.015
Penta	PCB-119	*	*	n NotFnd	1.72	*		3350	2.5	1.89	*	0.982	0.992
Penta	PCB-108/112	*	*	n NotFnd	1.29	*		3350	2.5	2.53	*	0.986	0.996
Penta	PCB-83	*	*	n NotFnd	1.52	*		3350	2.5	2.14	*	0.991	1.001
Penta	PCB-97	*	*	n NotFnd	1.25	*		3350	2.5	2.61	*	0.996	1.006
Penta	PCB-86	*	*	n NotFnd	1.02	*		3350	2.5	3.19	*	1.000	1.010
Penta	PCB-87/117/125	*	*	n NotFnd	1.56	*		3350	2.5	2.09	*	1.002	1.012
Penta	PCB-111/115	*	*	n NotFnd	1.75	*		3350	2.5	1.86	*	1.007	1.017
Penta	PCB-85/116	*	*	n NotFnd	1.30	*		3350	2.5	2.50	*	1.010	1.020
Penta	PCB-120	*	*	n NotFnd	1.78	*		3350	2.5	1.83	*	1.016	1.026
Penta	PCB-110	*	*	n NotFnd	1.68	*		3350	2.5	1.94	*	1.020	1.030
Penta	PCB-82	*	*	n NotFnd	0.74	*		3350	2.5	3.14	*	0.972	0.982
Penta	PCB-124	*	*	n NotFnd	1.32	*		3350	2.5	1.75	*	0.988	0.998
Penta	PCB-107/109	*	*	n NotFnd	1.22	*		3350	2.5	1.90	*	0.991	1.001
Penta	PCB-123	*	*	n NotFnd	1.22	*		3350	2.5	1.90	*	0.995	1.005
Penta	PCB-106/118	*	*	n NotFnd	1.22	*		3350	2.5	1.86	*	0.996	1.006
Penta	PCB-114	*	*	n NotFnd	1.36	*		3330	2.5	1.64	*	0.995	1.005
Penta	PCB-122	*	*	n NotFnd	1.24	*		3330	2.5	1.80	*	0.999	1.009
Penta	PCB-105	*	*	n NotFnd	1.28	*		3330	2.5	1.61	*	0.995	1.005
Penta	PCB-127	*	*	n NotFnd	1.14	*		3330	2.5	1.74	*	0.995	1.005
Penta	PCB-126	*	*	n NotFnd	1.28	*		3330	2.5	1.78	*	0.995	1.005
Hexa	PCB-155	*	*	n NotFnd	1.14	*		1560	2.5	1.03	*	0.966	1.006
Hexa	PCB-150	*	*	n NotFnd	1.06	*		1560	2.5	1.10	*	1.030	1.040
Hexa	PCB-152	*	*	n NotFnd	1.10	*		1560	2.5	1.07	*	1.043	1.053
Hexa	PCB-145	*	*	n NotFnd	1.09	*		1560	2.5	1.07	*	1.055	1.065
Hexa	PCB-136	*	*	n NotFnd	1.08	*		1560	2.5	1.08	*	1.064	1.074
Hexa	PCB-148	*	*	n NotFnd	0.74	*		1560	2.5	1.58	*	1.066	1.076
Hexa	PCB-154	*	*	n NotFnd	0.88	*		1560	2.5	1.33	*	1.079	1.089
Hexa	PCB-151	*	*	n NotFnd	0.81	*		1560	2.5	1.45	*	1.097	1.107
Hexa	PCB-135	*	*	n NotFnd	0.78	*		1560	2.5	1.51	*	1.101	1.113
Hexa	PCB-144	*	*	n NotFnd	0.82	*		1560	2.5	1.43	*	1.105	1.116
Hexa	PCB-147	*	*	n NotFnd	0.83	*		1560	2.5	1.42	*	1.011	1.120
Hexa	PCB-139/149	*	*	n NotFnd	0.84	*		1560	2.5	1.39	*	1.115	1.127
Hexa	PCB-140	*	*	n NotFnd	0.79	*		1560	2.5	1.49	*	1.120	1.132
Hexa	PCB-134/143	*	*	n NotFnd	0.93	*		1740	2.5	1.14	*	0.970	0.980

Analyst: DMS

Date: 10/27/14

Client ID: Method Blank Filename: 141021E2 S:6 Acq:22-OCT-14 01:30:11 ConCal: ST141021E2-1
Lab ID: B4J0110-BLK1 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hexa	PCB-133/142	*	*	n NotF	0.95	*		1740	2.5	1.12	*	0.977-0.987
Hexa	PCB-131	*	*	n NotF	0.91	*		1740	2.5	1.16	*	0.981-0.991
Hexa	PCB-146/165	*	*	n NotF	1.16	*		1740	2.5	0.916	*	0.986-0.996
Hexa	PCB-132/161	*	*	n NotF	1.11	*		1740	2.5	0.952	*	0.992-1.002
Hexa	PCB-153	*	*	n NotF	1.18	*		1740	2.5	0.899	*	0.995-1.005
Hexa	PCB-168	*	*	n NotF	1.37	*		1740	2.5	0.774	*	1.000-1.010
Hexa	PCB-141	*	*	n NotF	0.97	*		1740	2.5	1.14	*	0.996-1.005
Hexa	PCB-137	*	*	n NotF	1.07	*		1740	2.5	1.04	*	1.004-1.014
Hexa	PCB-130	*	*	n NotF	0.85	*		1740	2.5	1.31	*	1.007-1.017
Hexa	PCB-138/163/164	*	*	n NotF	1.23	*		1740	2.5	0.928	*	0.996-1.006
Hexa	PCB-158/160	*	*	n NotF	1.29	*		1740	2.5	0.882	*	1.001-1.011
Hexa	PCB-129	*	*	n NotF	0.92	*		1740	2.5	1.23	*	1.007-1.017
Hexa	PCB-166	*	*	n NotF	1.12	*		1740	2.5	0.929	*	0.988-0.998
Hexa	PCB-159	*	*	n NotF	1.16	*		1740	2.5	0.889	*	0.995-1.005
Hexa	PCB-128/162	*	*	n NotF	1.02	*		1740	2.5	1.02	*	1.002-1.012
Hexa	PCB-167	*	*	n NotF	1.06	*		1740	2.5	0.930	*	0.995-1.005
Hexa	PCB-156	*	*	n NotF	1.18	*		1740	2.5	0.873	*	0.995-1.005
Hexa	PCB-157	*	*	n NotF	1.08	*		1740	2.5	0.966	*	0.995-1.005
Hexa	PCB-169	*	*	n NotF	1.11	*		1740	2.5	1.07	*	0.995-1.005
Hepta	PCB-188	*	*	n NotF	1.40	*		1700	2.5	0.581	*	0.995-1.005
Hepta	PCB-184	*	*	n NotF	1.24	*		1700	2.5	0.659	*	1.006-1.016
Hepta	PCB-179	*	*	n NotF	1.30	*		1700	2.5	0.626	*	1.024-1.034
Hepta	PCB-176	*	*	n NotF	1.36	*		1700	2.5	0.599	*	1.035-1.045
Hepta	PCB-186	*	*	n NotF	1.28	*		1700	2.5	0.640	*	1.049-1.059
Hepta	PCB-178	*	*	n NotF	0.94	*		1700	2.5	0.871	*	1.061-1.071
Hepta	PCB-175	*	*	n NotF	0.97	*		1700	2.5	0.842	*	1.069-1.079
Hepta	PCB-182/187	*	*	n NotF	1.01	*		1700	2.5	0.804	*	1.073-1.083
Hepta	PCB-183	*	*	n NotF	1.08	*		1700	2.5	0.754	*	1.080-1.090
Hepta	PCB-185	*	*	n NotF	1.34	*		1700	2.5	0.930	*	0.951-0.961
Hepta	PCB-174	*	*	n NotF	1.34	*		1700	2.5	0.934	*	0.958-0.968
Hepta	PCB-181	*	*	n NotF	1.36	*		1700	2.5	0.918	*	0.961-0.971
Hepta	PCB-177	*	*	n NotF	1.24	*		1700	2.5	1.01	*	0.964-0.974
Hepta	PCB-171	*	*	n NotF	1.31	*		1700	2.5	0.951	*	0.970-0.980
Hepta	PCB-173	*	*	n NotF	1.16	*		1700	2.5	1.08	*	0.979-0.989
Hepta	PCB-172	*	*	n NotF	1.22	*		1700	2.5	1.02	*	0.988-0.998
Hepta	PCB-192	*	*	n NotF	1.53	*		1700	2.5	0.818	*	0.991-1.001
Hepta	PCB-180	*	*	n NotF	1.43	*		1700	2.5	0.874	*	0.995-1.005

Analyst: DMS

Date: 10/27/14

Client ID: Method Blank Filename: 141021E2 S:6 Acq:22-OCT-14 01:30:11 ConCal: ST141021E2-1
Lab ID: B4J0110-BLK1 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	*	*	n NotF	1.65	*		1700	2.5	0.755	*	0.999	1.009
Hepta	PCB-191	*	*	n NotF	1.67	*		1700	2.5	0.747	*	1.004	1.014
Hepta	PCB-170	*	*	n NotF	1.50	*		1700	2.5	1.05	*	0.995	1.005
Hepta	PCB-190	*	*	n NotF	2.02	*		1700	2.5	0.781	*	0.998	1.008
Hepta	PCB-189	*	*	n NotF	1.54	*		1700	2.5	0.984	*	0.995	1.005
Octa	PCB-202	*	*	n NotF	1.04	*		1370	2.5	1.05	*	0.995	1.005
Octa	PCB-201	*	*	n NotF	1.10	*		1370	2.5	0.986	*	1.006	1.016
Octa	PCB-204	*	*	n NotF	0.99	*		1370	2.5	1.09	*	1.009	1.019
Octa	PCB-197	*	*	n NotF	1.07	*		1370	2.5	1.01	*	1.015	1.025
Octa	PCB-200	*	*	n NotF	1.02	*		1370	2.5	1.07	*	1.032	1.044
Octa	PCB-198	*	*	n NotF	0.74	*		1370	2.5	1.46	*	1.058	1.068
Octa	PCB-199	*	*	n NotF	0.73	*		1370	2.5	1.49	*	1.060	1.070
Octa	PCB-196/203	*	*	n NotF	0.77	*		1370	2.5	1.41	*	1.066	1.076
Octa	PCB-195	*	*	n NotF	1.20	*		1790	2.5	2.48	*	0.979	0.989
Octa	PCB-194	*	*	n NotF	1.25	*		1790	2.5	2.39	*	0.995	1.005
Octa	PCB-205	*	*	n NotF	1.41	*		1790	2.5	2.11	*	1.001	1.011
Nona	PCB-208	*	*	n NotF	0.96	*		1370	2.5	1.16	*	0.995	1.005
Nona	PCB-207	*	*	n NotF	0.92	*		1370	2.5	1.21	*	1.001	1.011
Nona	PCB-206	*	*	n NotF	1.03	*		1370	2.5	3.82	*	0.995	1.005
Deca	PCB-209	*	*	n NotF	1.18	*		953	2.5	4.02	*	0.995	1.005

Analyst: DMS

Date: 10/27/14

Client ID: Method Blank Filename: 141021E2 S:6 Acq:22-OCT-14 01:30:11 ConCal: ST141021E2-1
Lab ID: B4J0110-BLK1 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: NA

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	*	*	n	NotFnd	1.22	*	
Total Di-PCB	1.82e+06	1.54	y	25:19	1.21	23.5415	
Total Tri-PCB	2.37e+05	1.07	y	25:56	1.16	3.70213	
Total Tri-PCB	1.96e+05	0.91	y	29:00	1.35	2.17719	Sum:5.87932
Total Tetra-PCB	*	*	n	NotFnd	1.17	*	
Total Penta-PCB	*	*	n	NotFnd	1.21	*	
Total Penta-PCB	*	*	n	NotFnd	1.26	*	Sum:0.00000
Total Hexa-PCB	*	*	n	NotFnd	0.92	*	
Total Hexa-PCB	*	*	n	NotFnd	1.08	*	Sum:0.00000
Total Hepta-PCB	*	*	n	NotFnd	1.27	*	
Total Octa-PCB	*	*	n	NotFnd	0.92	*	
Total Octa-PCB	*	*	n	NotFnd	1.29	*	Sum:0.00000
Total Nona-PCB	*	*	n	NotFnd	0.96	*	
Total Deca-PCB	*	*	n	NotFnd	1.18	*	

Total PCB Conc:29.4207750000

Integrations by Analyst: DMS

Date: 10/27/14

Client ID: Method Blank Filename: 141021E2 S:6 Acq:22-OCT-14 01:30:11 ConCal: ST141021E2-1
Lab ID: B4J0110-BLK1 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.38e+08	3.16 y	0.89	16:29	0.634	0.622	0.628	1390	69.7
13C-PCB-3	1.45e+08	3.21 y	0.93	18:59	0.730	0.721	0.729	1410	70.3
13C-PCB-4	6.75e+07	1.57 y	0.55	20:17	0.780	0.772	0.780	1100	55.2
13C-PCB-9	1.07e+08	1.58 y	0.83	22:00	0.846	0.840	0.848	1160	58.0
13C-PCB-11	1.33e+08	1.58 y	0.94	25:18	0.973	0.968	0.978	1270	63.7
13C-PCB-19	8.39e+07	1.07 y	0.53	24:19	0.935	0.929	0.939	1410	70.6
13C-PCB-28	1.29e+08	1.06 y	0.89	29:06	1.004	0.999	1.009	1500	75.0
13C-PCB-32	1.36e+08	1.08 y	0.81	27:10	1.045	1.041	1.051	1500	74.9
13C-PCB-37	1.22e+08	1.07 y	0.83	32:57	1.137	1.131	1.143	1520	76.0
13C-PCB-47	9.80e+07	0.77 y	0.74	31:59	0.871	0.867	0.875	1370	68.3
13C-PCB-52	9.33e+07	0.79 y	0.71	31:29	0.857	0.853	0.861	1360	68.2
13C-PCB-54	1.06e+08	0.80 y	0.85	28:01	0.763	0.758	0.766	1300	64.8
13C-PCB-70	1.38e+08	0.79 y	0.94	35:29	0.966	0.961	0.971	1520	75.9
13C-PCB-77	1.37e+08	0.79 y	0.89	39:37	1.078	1.073	1.083	1580	79.2
13C-PCB-80	1.43e+08	0.81 y	0.96	35:53	0.977	0.972	0.982	1540	77.1
13C-PCB-81	1.27e+08	0.80 y	0.84	39:00	1.062	1.057	1.067	1570	78.5
13C-PCB-95	6.46e+07	1.60 y	0.74	35:47	0.914	0.908	0.918	1450	72.4
13C-PCB-97	6.34e+07	1.65 y	0.69	38:46	0.990	0.984	0.994	1530	76.6
13C-PCB-101	6.98e+07	1.62 y	0.79	37:27	0.956	0.951	0.961	1480	74.0
13C-PCB-104	8.42e+07	1.62 y	1.00	32:38	0.833	0.829	0.837	1410	70.5
13C-PCB-105	9.90e+07	1.58 y	1.24	43:03	0.928	0.924	0.934	1700	85.1
13C-PCB-114	9.41e+07	1.61 y	1.21	42:11	0.910	0.905	0.915	1660	83.0
13C-PCB-118	9.32e+07	1.61 y	0.98	41:31	1.060	1.054	1.064	1580	78.8
13C-PCB-123	8.82e+07	1.63 y	0.95	41:20	1.055	1.049	1.059	1550	77.4
13C-PCB-126	9.66e+07	1.61 y	1.16	45:17	0.977	0.972	0.982	1770	88.4
13C-PCB-127	1.09e+08	1.60 y	1.34	43:22	0.935	0.931	0.941	1730	86.7
13C-PCB-138	8.21e+07	1.26 y	1.04	44:47	0.966	0.961	0.971	1670	83.7
13C-PCB-141	8.49e+07	1.28 y	1.07	43:56	0.948	0.943	0.953	1690	84.3
13C-PCB-153	8.76e+07	1.26 y	1.11	43:11	0.931	0.927	0.937	1670	83.7
13C-PCB-155	7.10e+07	1.31 y	0.83	37:00	0.945	0.939	0.949	1420	71.1
13C-PCB-156	9.96e+07	1.29 y	1.24	48:05	1.037	1.032	1.042	1700	85.1
13C-PCB-157	1.01e+08	1.29 y	1.31	48:21	1.043	1.037	1.047	1640	82.2
13C-PCB-159	9.44e+07	1.26 y	1.20	46:05	0.994	0.989	0.999	1670	83.7
13C-PCB-167	1.02e+08	1.27 y	1.32	46:46	1.009	1.004	1.014	1650	82.3
13C-PCB-169	9.55e+07	1.29 y	1.22	50:23	1.087	1.082	1.092	1670	83.6
13C-PCB-170	4.03e+07	0.45 y	0.54	50:43	1.094	1.089	1.101	1600	80.1
13C-PCB-180	5.12e+07	0.46 y	0.67	49:20	1.064	1.059	1.069	1620	80.9
13C-PCB-188	7.11e+07	0.46 y	0.94	42:49	0.923	0.919	0.929	1620	80.9
13C-PCB-189	5.57e+07	0.47 y	0.72	52:10	1.125	1.120	1.132	1660	82.8
13C-PCB-194	4.63e+07	0.92 y	0.81	53:42	0.994	0.990	1.000	1670	83.3
13C-PCB-202	6.23e+07	0.93 y	0.83	48:17	1.041	1.036	1.046	1590	79.6
13C-PCB-206	3.14e+07	0.82 y	0.66	55:28	1.027	1.021	1.031	1390	69.4
13C-PCB-208	6.17e+07	0.79 y	1.12	52:54	0.980	0.976	0.986	1600	80.0
13C-PCB-209	2.86e+07	1.23 y	0.61	56:45	1.051	1.044	1.054	1360	67.9

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.53e+08	0.78 y	1.01	37:46	1.028	1.023	1.033	1570	78.7
13C-PCB-178	4.84e+07	0.46 y	0.63	45:38	0.984	0.979	0.989	1630	81.7

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.53e+08	0.78 y	1.20	37:46	0.968	0.963	0.973	2010	100
13C-PCB-178	4.84e+07	0.46 y	0.94	45:38	0.925	0.920	0.930	2020	101

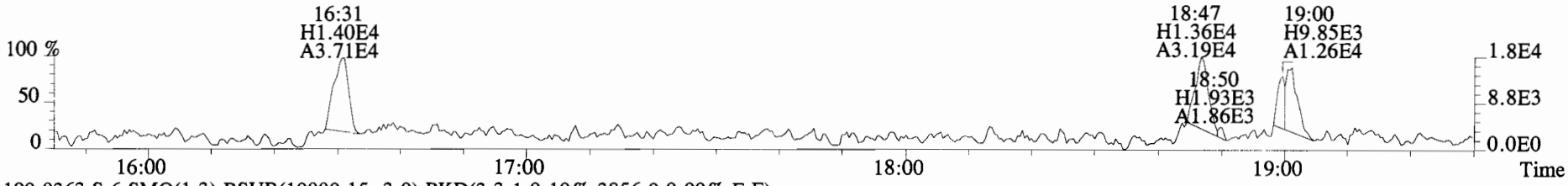
RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	2.23e+08	1.55	y	1.00	26:00	2000
13C-PCB-31	1.94e+08	1.06	y	1.00	28:59	2000
13C-PCB-60	1.93e+08	0.80	y	1.00	36:44	2000
13C-PCB-111	1.20e+08	1.62	y	1.00	39:10	2000
13C-PCB-128	9.40e+07	1.29	y	1.00	46:22	2000
13C-PCB-205	6.87e+07	0.92	y	1.00	54:00	2000

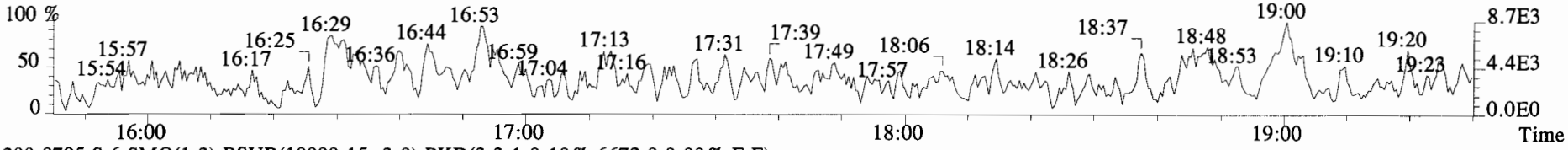
Analyst: DMS

Date: 10/27/14

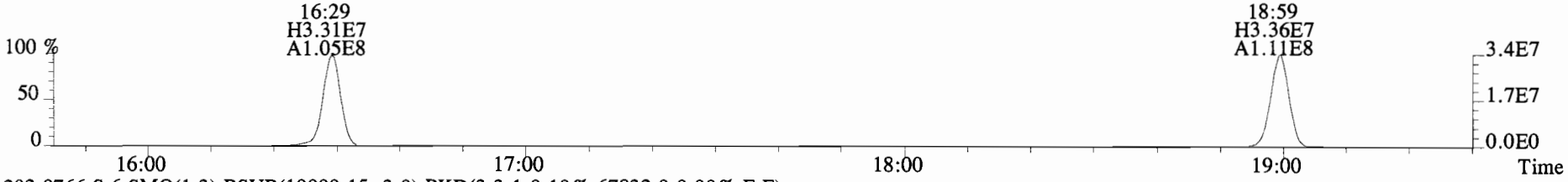
File:141021E2 #1-728 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
188.0393 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3148.0,0.00%,F,F)



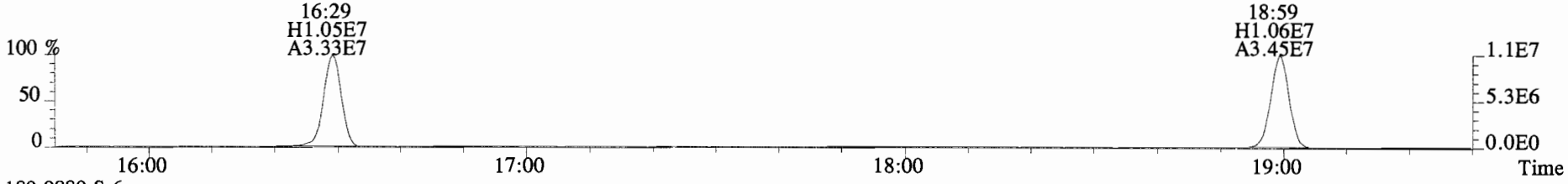
190.0363 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3856.0,0.00%,F,F)



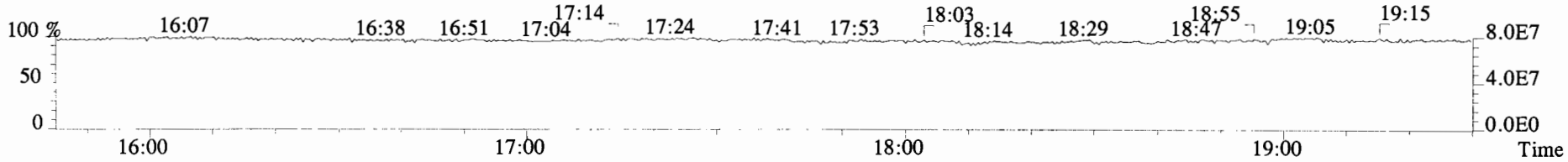
200.0795 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6672.0,0.00%,F,F)



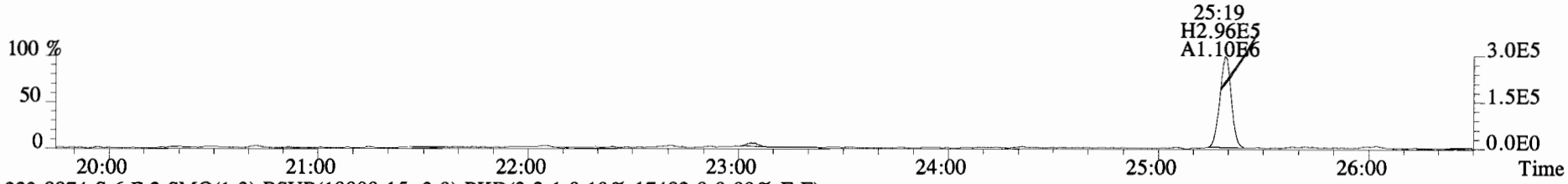
202.0766 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,67832.0,0.00%,F,F)



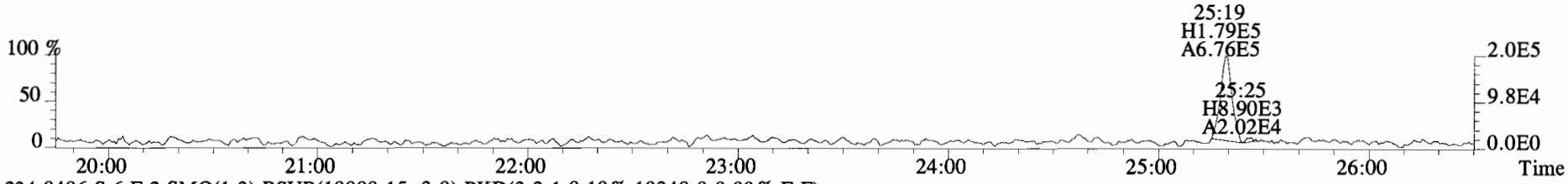
180.9880 S:6



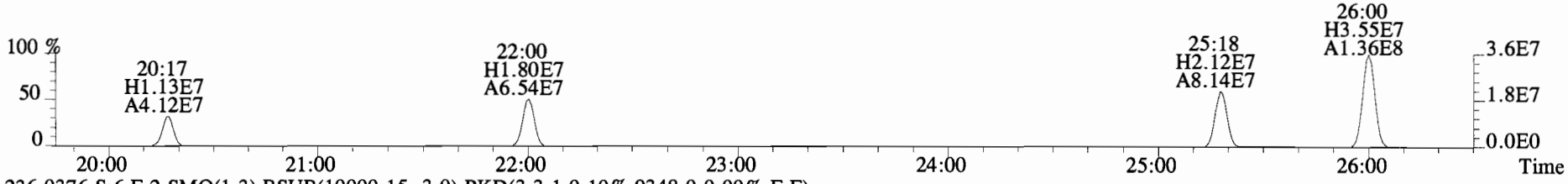
File:141021E2 #1-758 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3904.0,0.00%,F,F)



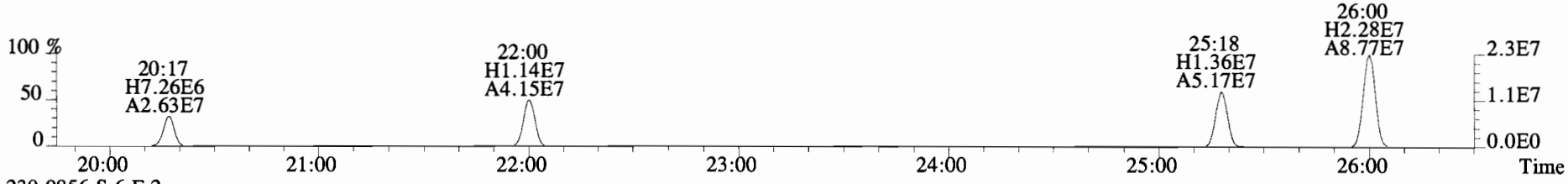
223.9974 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17492.0,0.00%,F,F)



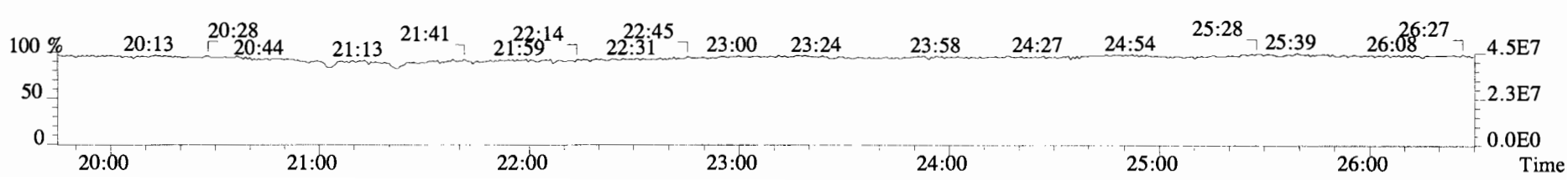
234.0406 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10348.0,0.00%,F,F)



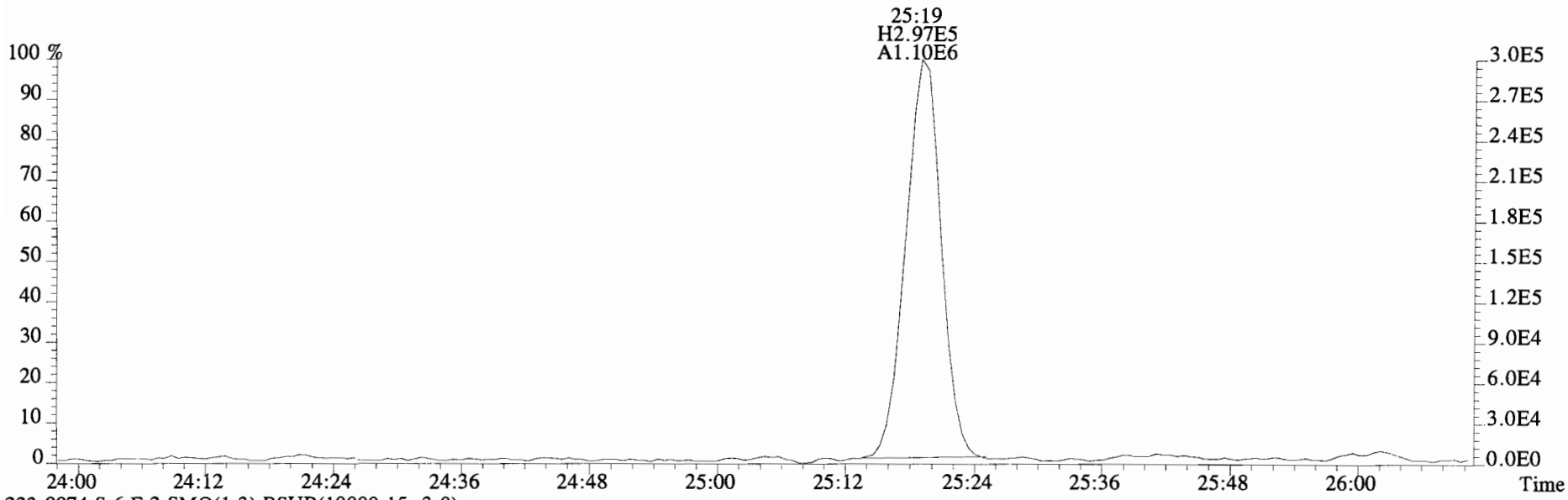
236.0376 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9348.0,0.00%,F,F)



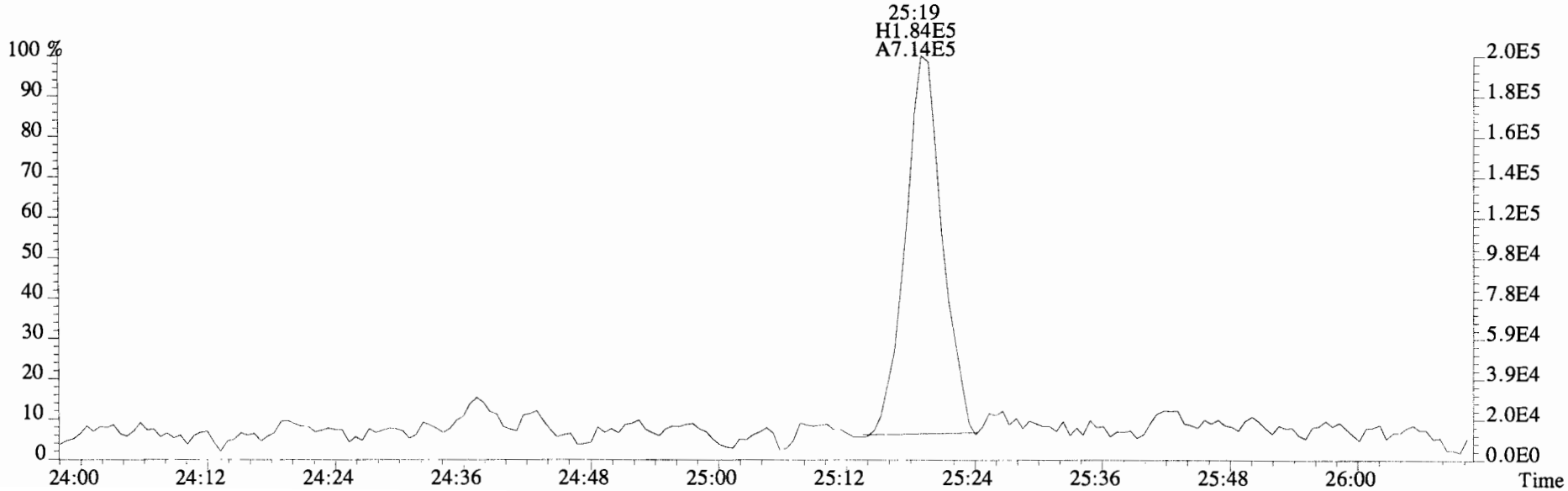
230.9856 S:6 F:2



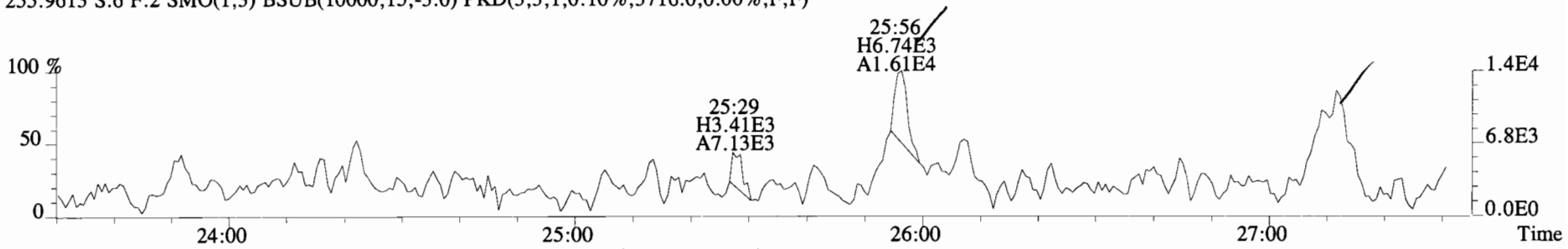
File:141021E2 #1-758 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3904.0,0.00%,F,F)



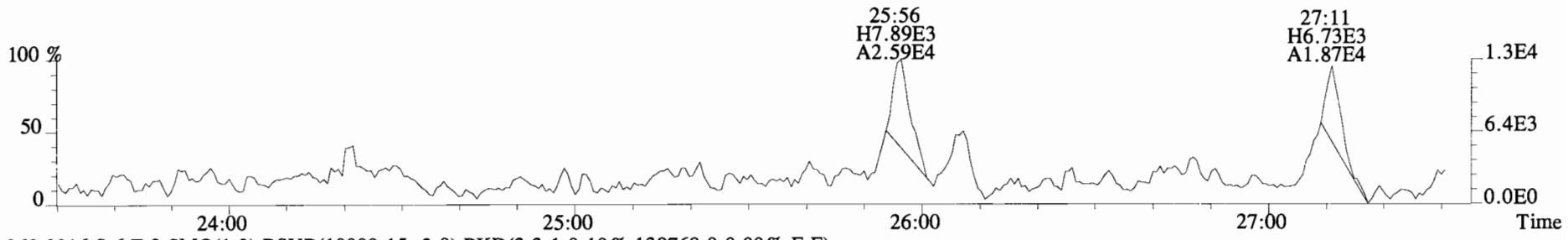
223.9974 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0)



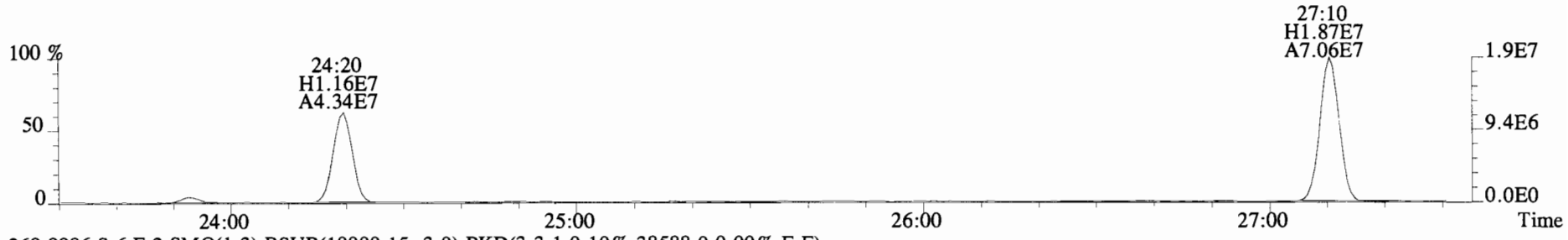
File:141021E2 #1-758 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
255.9613 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3716.0,0.00%,F,F)



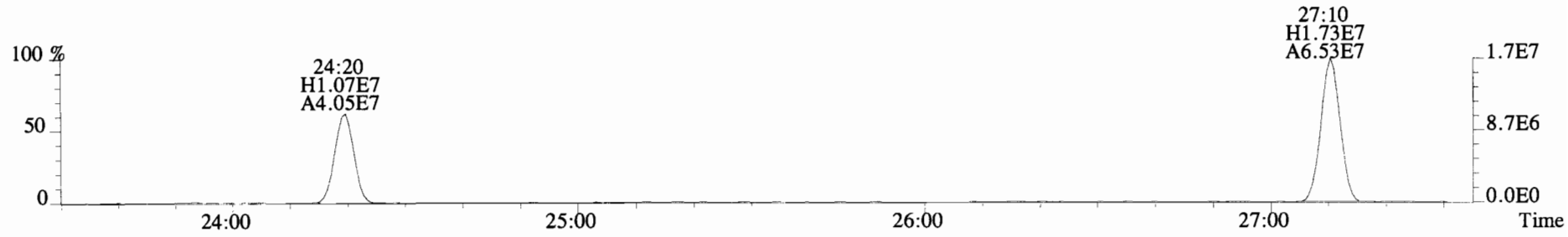
257.9584 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2664.0,0.00%,F,F)



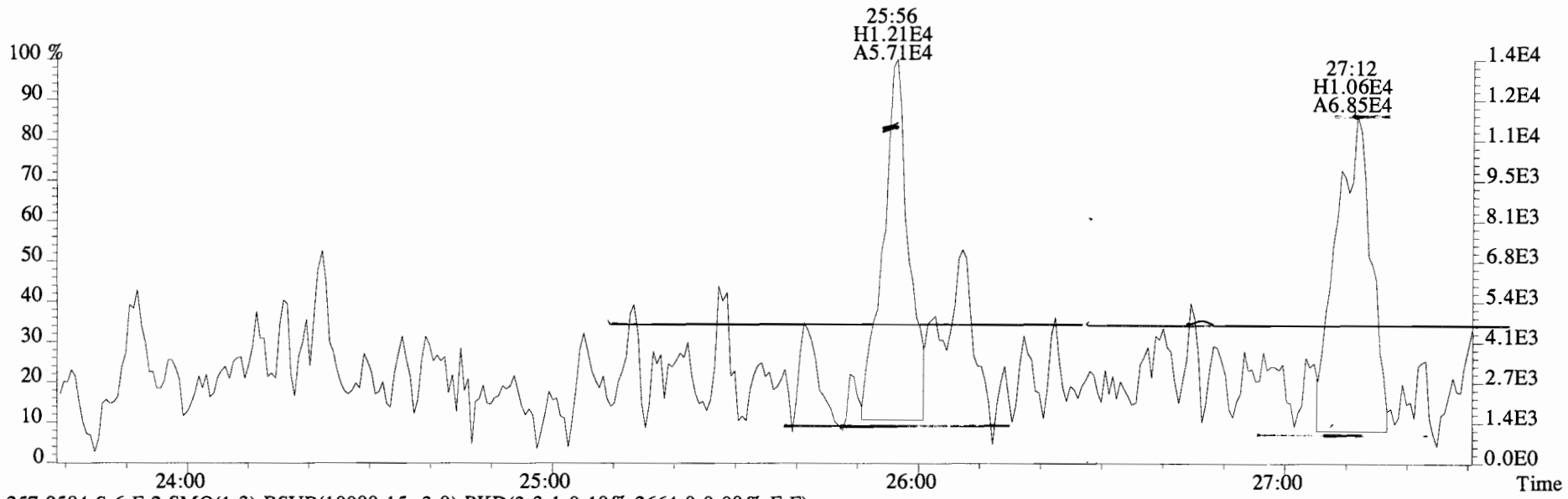
268.0016 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,139768.0,0.00%,F,F)



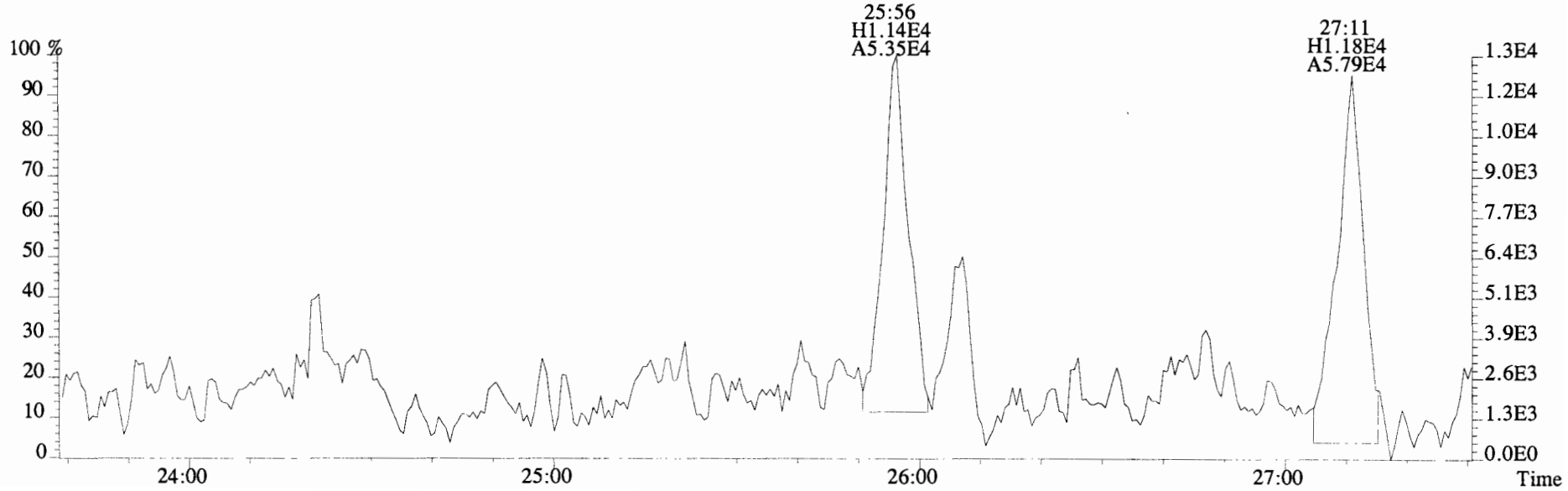
269.9986 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,38588.0,0.00%,F,F)

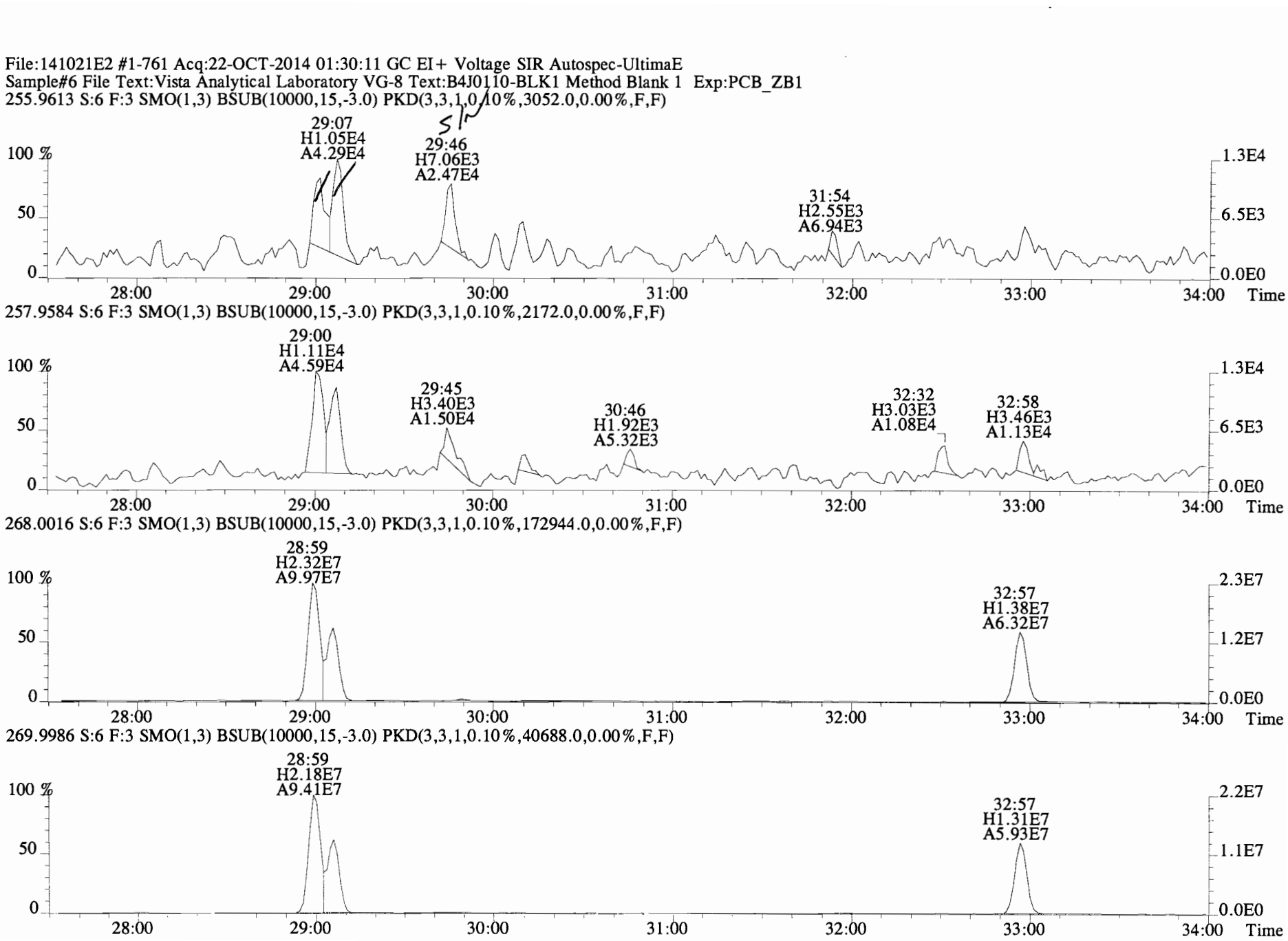


File:141021E2 #1-758 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
255.9613 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3716.0,0.00%,F,F)

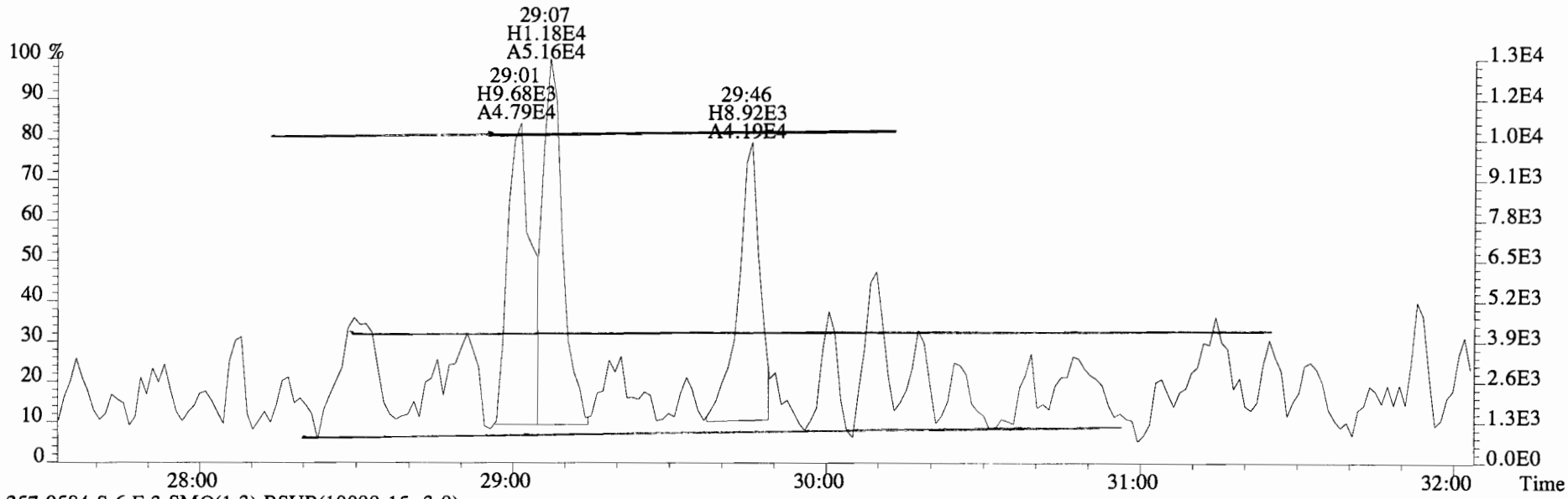


257.9584 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2664.0,0.00%,F,F)

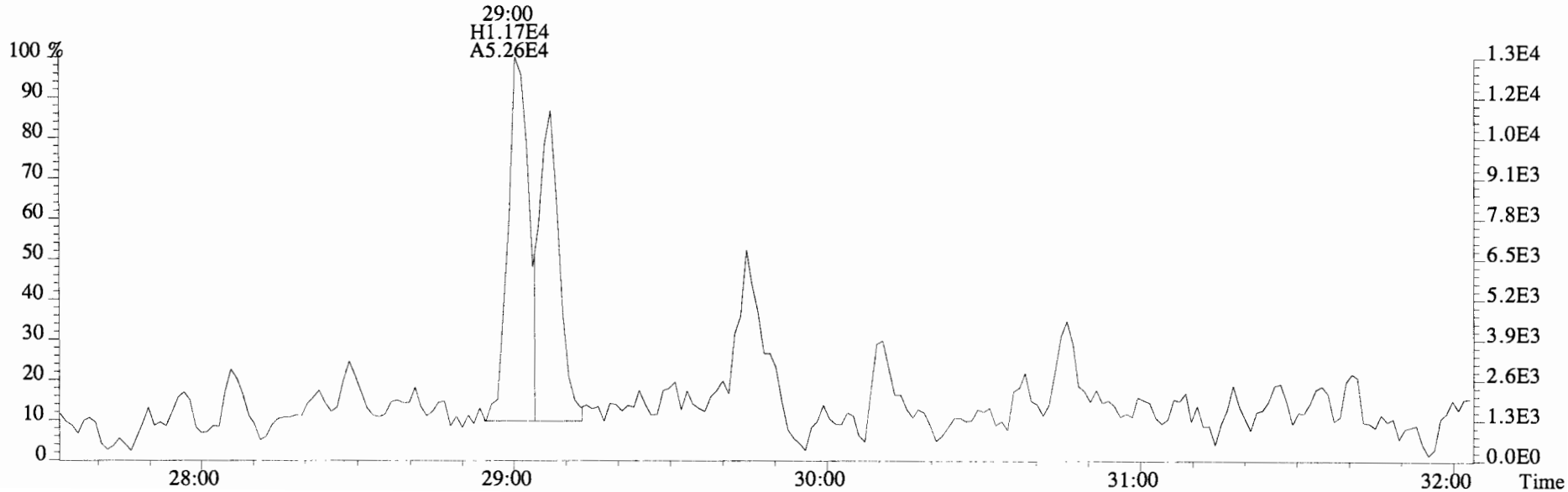



File:141021E2 #1-761 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
255.9613 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3052.0,0.00%,F,F)
29:07 H1.05E4 A4.29E4
29:46 H7.06E3 A2.47E4
31:54 H2.55E3 A6.94E3
257.9584 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2172.0,0.00%,F,F)
29:00 H1.11E4 A4.59E4
29:45 H3.40E3 A1.50E4
30:46 H1.92E3 A5.32E3
32:32 H3.03E3 A1.08E4
32:58 H3.46E3 A1.13E4
268.0016 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,172944.0,0.00%,F,F)
28:59 H2.32E7 A9.97E7
32:57 H1.38E7 A6.32E7
269.9986 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,40688.0,0.00%,F,F)
28:59 H2.18E7 A9.41E7
32:57 H1.31E7 A5.93E7
100 %
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
Time
1.3E4
6.5E3
0.0E0
2.3E7
1.2E7
2.2E7
1.1E7

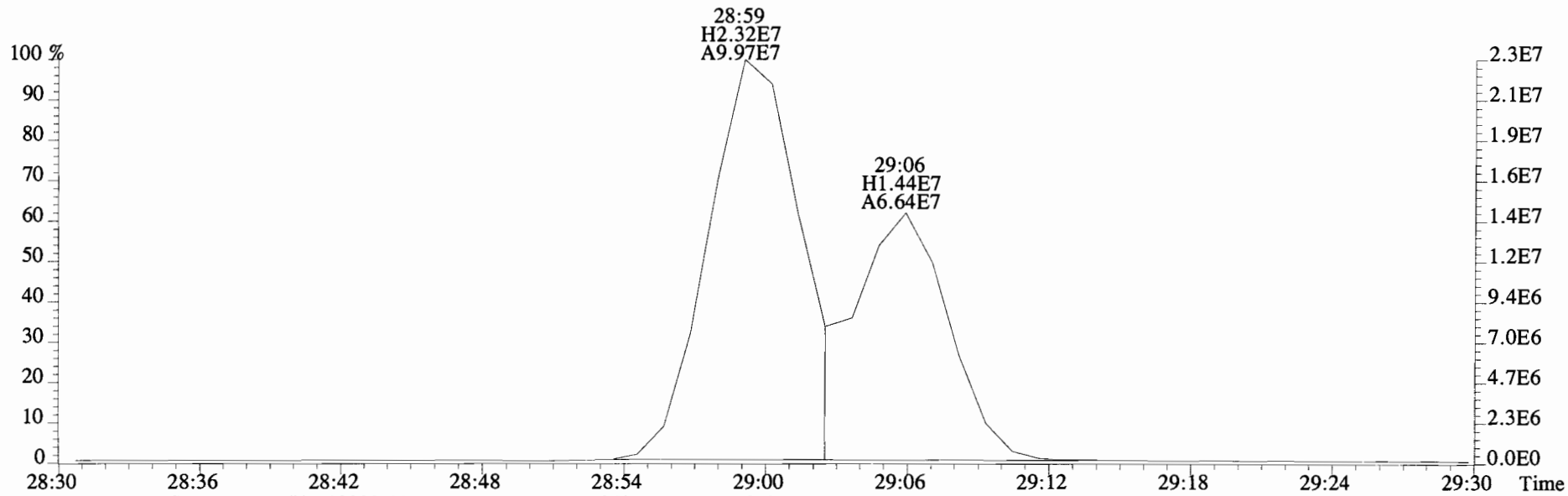
File:141021E2 #1-761 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
255.9613 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0)



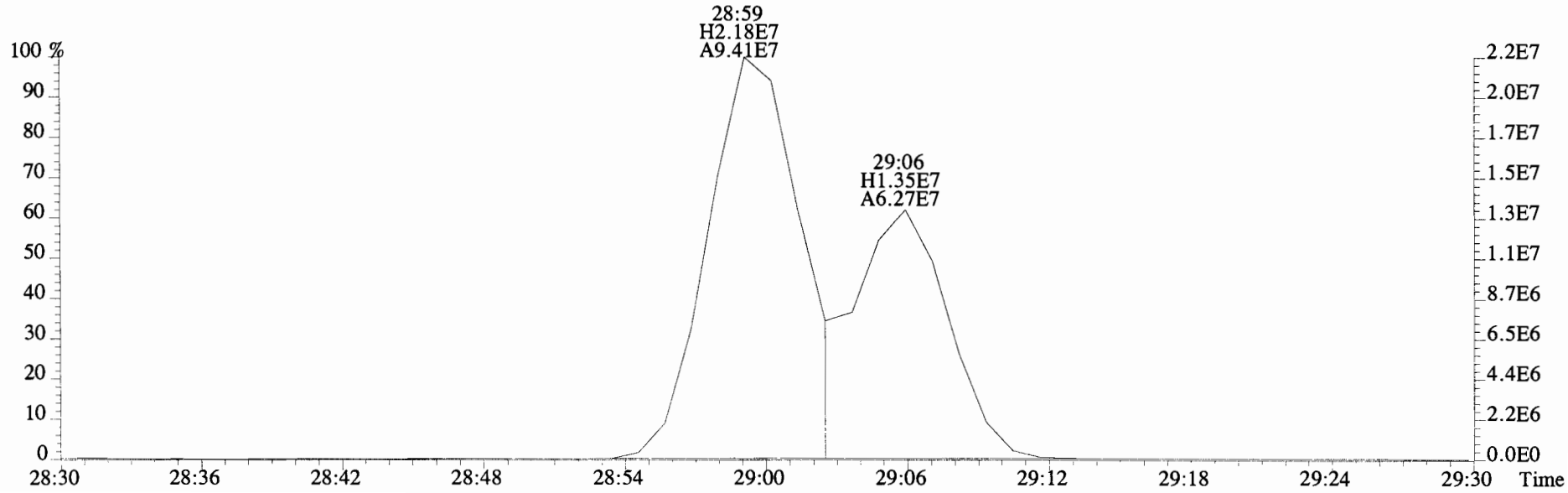
257.9584 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0)

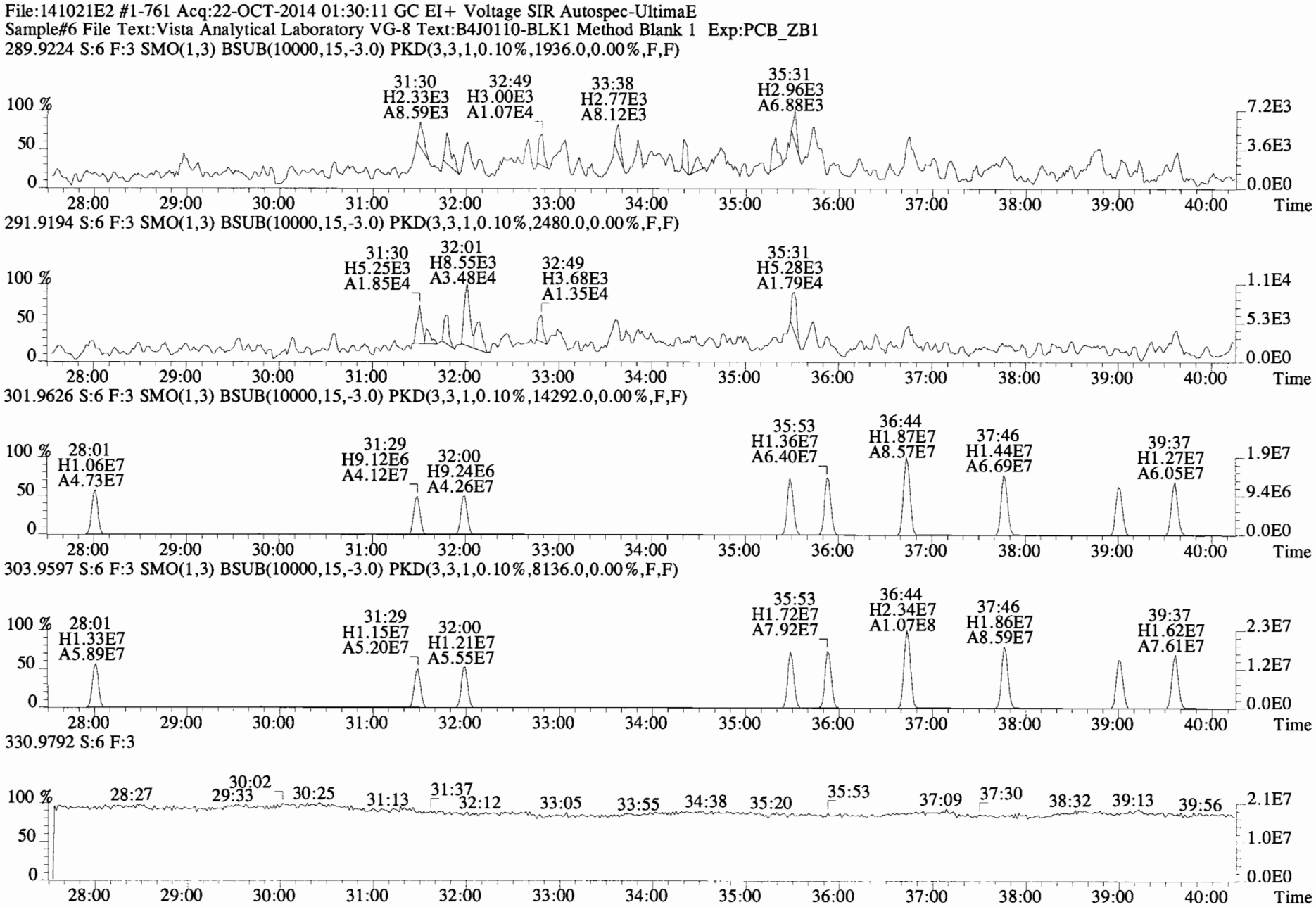


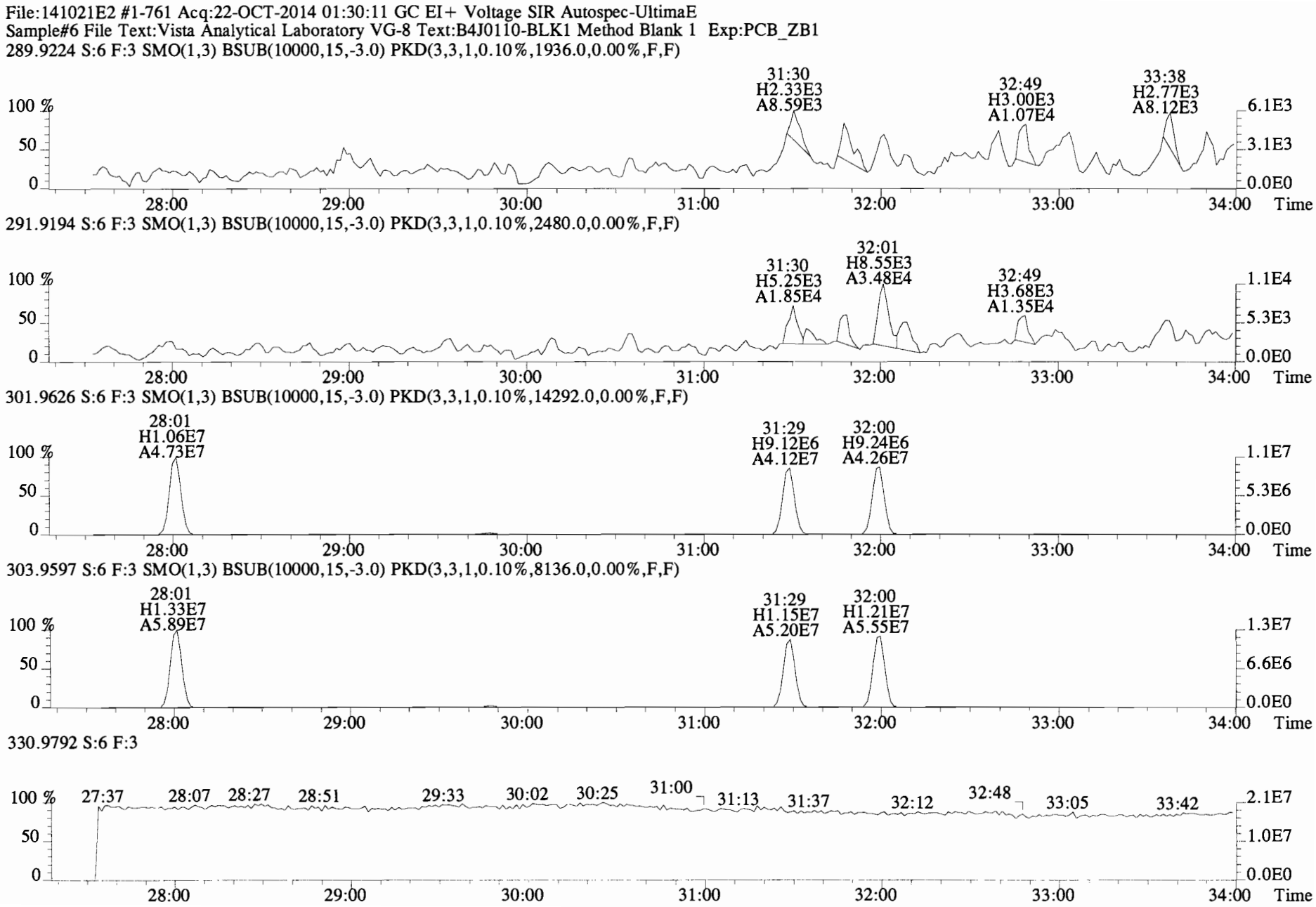
File:141021E2 #1-761 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
268.0016 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,172944.0,0.00%,F,F)

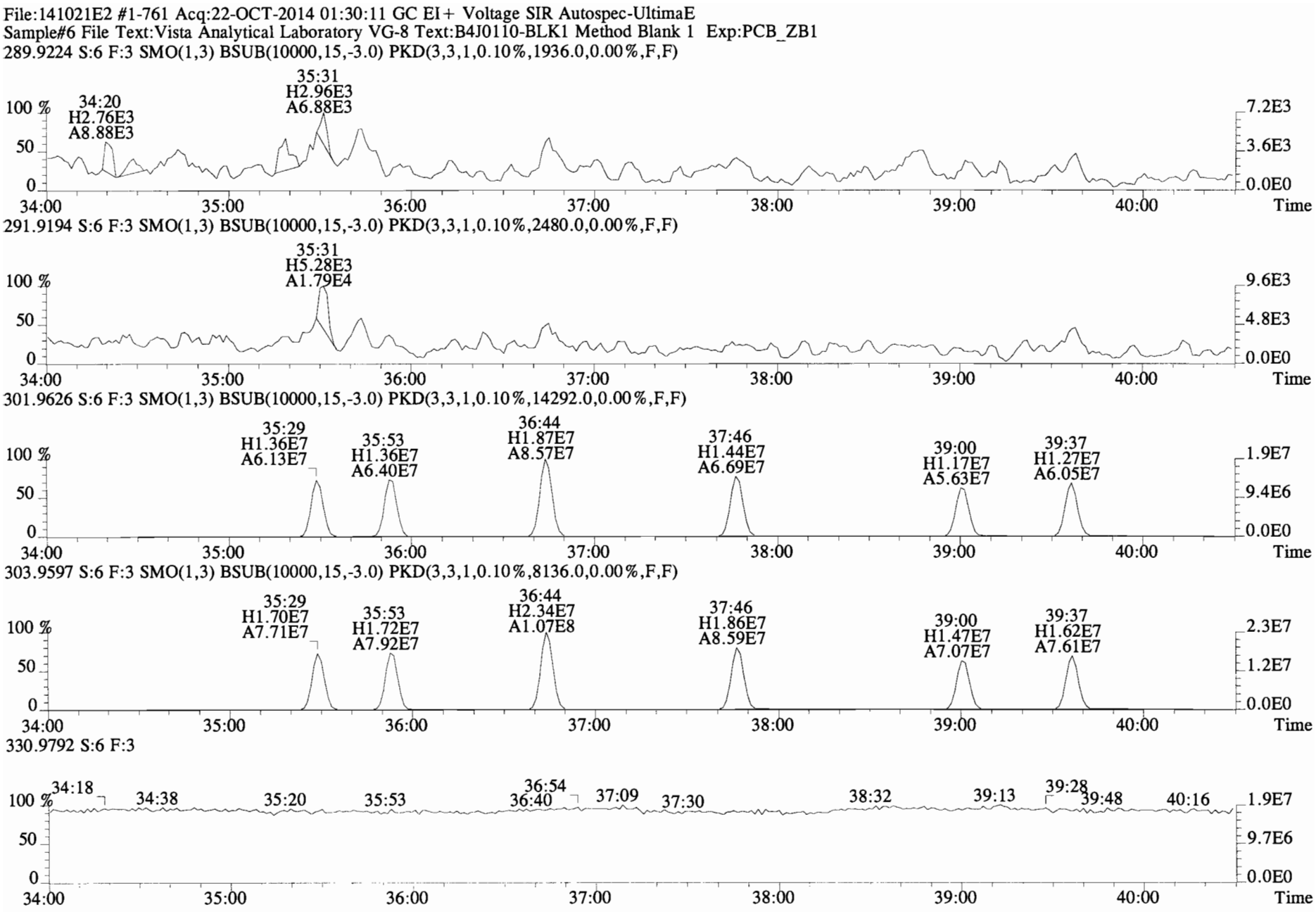


269.9986 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,40688.0,0.00%,F,F)

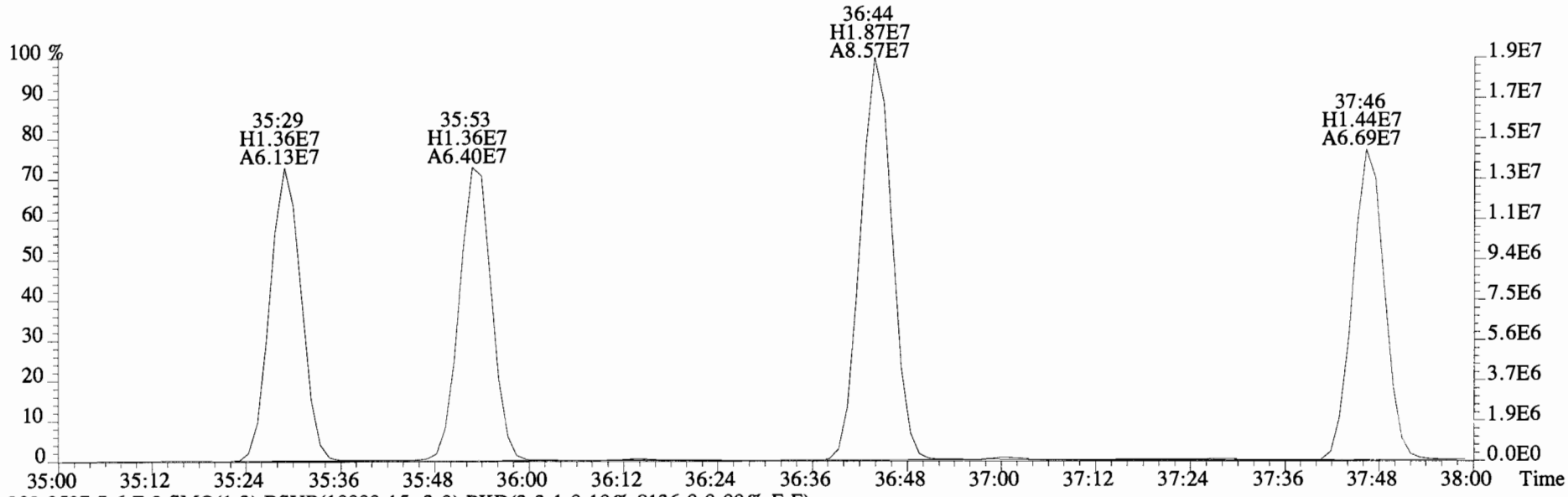



File:141021E2 #1-761 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1936.0,0.00%,F,F)
31:30 H2.33E3 A8.59E3
32:49 H3.00E3 A1.07E4
33:38 H2.77E3 A8.12E3
35:31 H2.96E3 A6.88E3
291.9194 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2480.0,0.00%,F,F)
31:30 H5.25E3 A1.85E4
32:01 H8.55E3 A3.48E4
32:49 H3.68E3 A1.35E4
35:31 H5.28E3 A1.79E4
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14292.0,0.00%,F,F)
28:01 H1.06E7 A4.73E7
31:29 H9.12E6 A4.12E7
32:00 H9.24E6 A4.26E7
35:53 H1.36E7 A6.40E7
36:44 H1.87E7 A8.57E7
37:46 H1.44E7 A6.69E7
39:37 H1.27E7 A6.05E7
303.9597 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8136.0,0.00%,F,F)
28:01 H1.33E7 A5.89E7
31:29 H1.15E7 A5.20E7
32:00 H1.21E7 A5.55E7
35:53 H1.72E7 A7.92E7
36:44 H2.34E7 A1.07E8
37:46 H1.86E7 A8.59E7
39:37 H1.62E7 A7.61E7
330.9792 S:6 F:3
28:27
30:02
29:33
30:25
31:13
31:37
32:12
33:05
33:55
34:38
35:20
35:53
37:09
37:30
38:32
39:13
39:56
100 %
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
37:00
38:00
39:00
40:00
Time
7.2E3
3.6E3
0.0E0
1.1E4
5.3E3
1.9E7
9.4E6
2.3E7
1.2E7
2.1E7
1.0E7

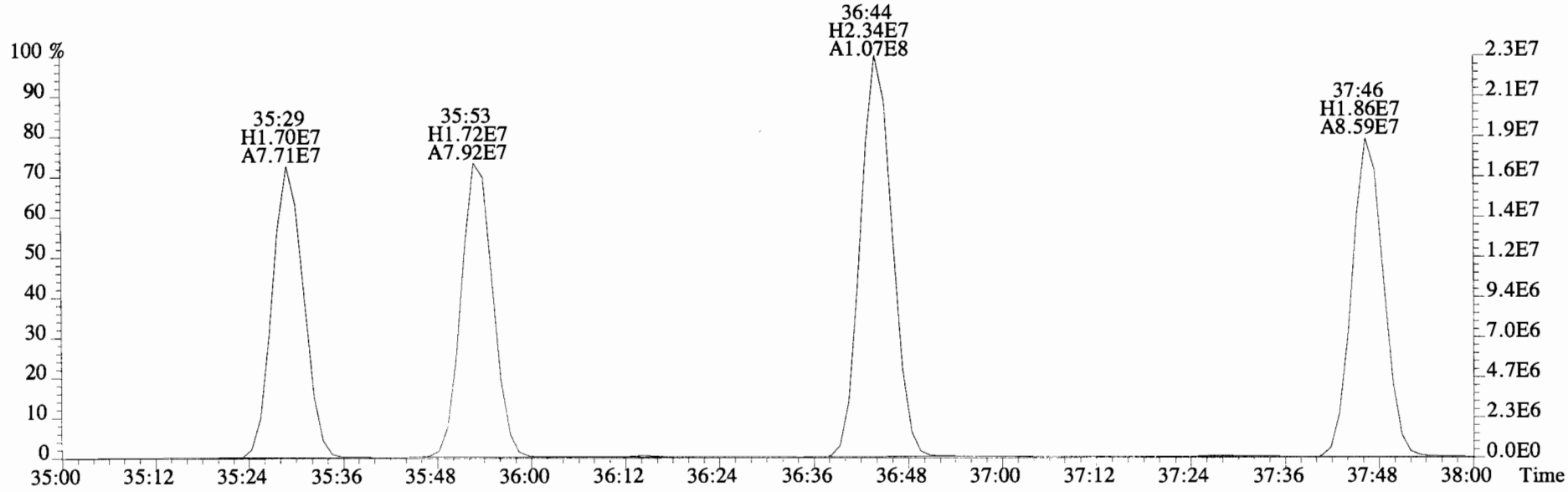

File:141021E2 #1-761 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1936.0,0.00%,F,F)
31:30 H2.33E3 A8.59E3
32:49 H3.00E3 A1.07E4
33:38 H2.77E3 A8.12E3
291.9194 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2480.0,0.00%,F,F)
31:30 H5.25E3 A1.85E4
32:01 H8.55E3 A3.48E4
32:49 H3.68E3 A1.35E4
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14292.0,0.00%,F,F)
28:01 H1.06E7 A4.73E7
31:29 H9.12E6 A4.12E7
32:00 H9.24E6 A4.26E7
303.9597 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8136.0,0.00%,F,F)
28:01 H1.33E7 A5.89E7
31:29 H1.15E7 A5.20E7
32:00 H1.21E7 A5.55E7
330.9792 S:6 F:3
27:37 28:07 28:27 28:51 29:33 30:02 30:25 31:00 31:13 31:37 32:12 32:48 33:05 33:42
100 %
50
0
28:00 29:00 30:00 31:00 32:00 33:00 34:00 Time
6.1E3 3.1E3 0.0E0
1.1E4 5.3E3 0.0E0
1.1E7 5.3E6 0.0E0
1.3E7 6.6E6 0.0E0
2.1E7 1.0E7 0.0E0


File:141021E2 #1-761 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1936.0,0.00%,F,F)
35:31 H2.96E3 A6.88E3
34:20 H2.76E3 A8.88E3
291.9194 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2480.0,0.00%,F,F)
35:31 H5.28E3 A1.79E4
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14292.0,0.00%,F,F)
35:29 H1.36E7 A6.13E7
35:53 H1.36E7 A6.40E7
36:44 H1.87E7 A8.57E7
37:46 H1.44E7 A6.69E7
39:00 H1.17E7 A5.63E7
39:37 H1.27E7 A6.05E7
303.9597 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8136.0,0.00%,F,F)
35:29 H1.70E7 A7.71E7
35:53 H1.72E7 A7.92E7
36:44 H2.34E7 A1.07E8
37:46 H1.86E7 A8.59E7
39:00 H1.47E7 A7.07E7
39:37 H1.62E7 A7.61E7
330.9792 S:6 F:3
34:18
34:38
35:20
35:53
36:40
36:54
37:09
37:30
38:32
39:13
39:28
39:48
40:16
100 %
50
0
34:00
35:00
36:00
37:00
38:00
39:00
40:00
Time
7.2E3
3.6E3
0.0E0
9.6E3
4.8E3
1.9E7
9.4E6
2.3E7
1.2E7
9.7E6

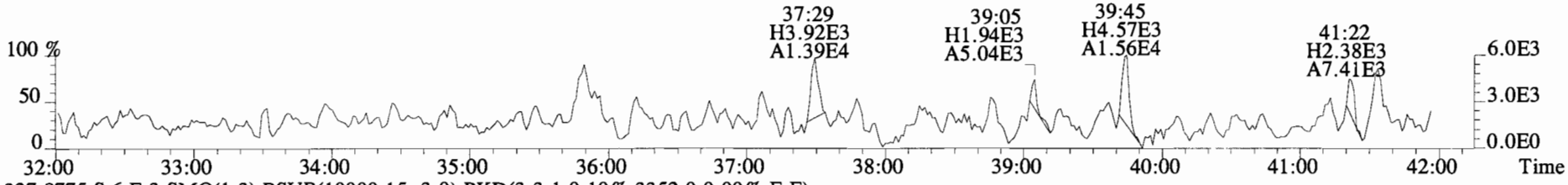
File:141021E2 #1-761 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14292.0,0.00%,F,F)



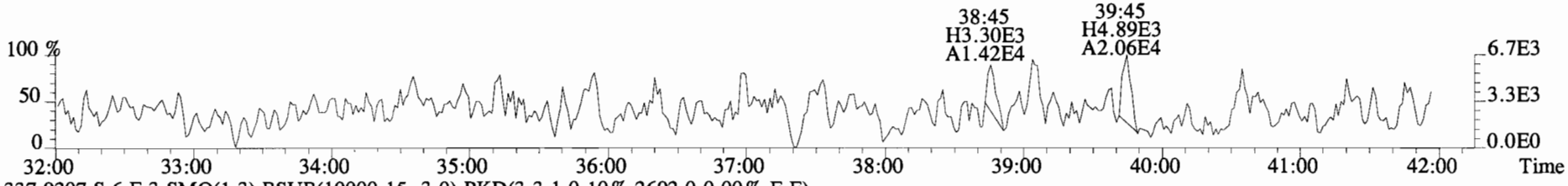
303.9597 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8136.0,0.00%,F,F)



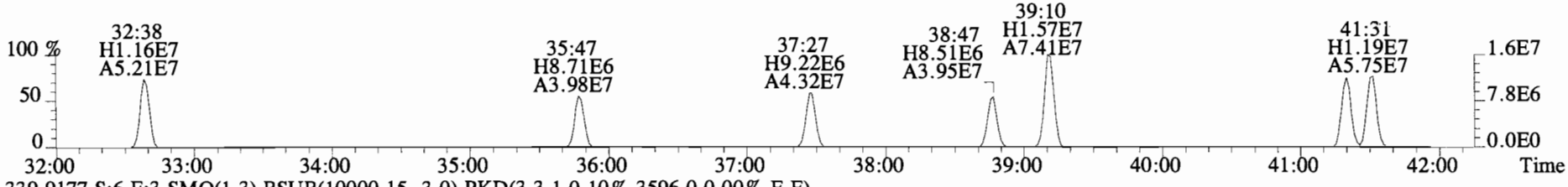
File:141021E2 #1-761 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2100.0,0.00%,F,F)



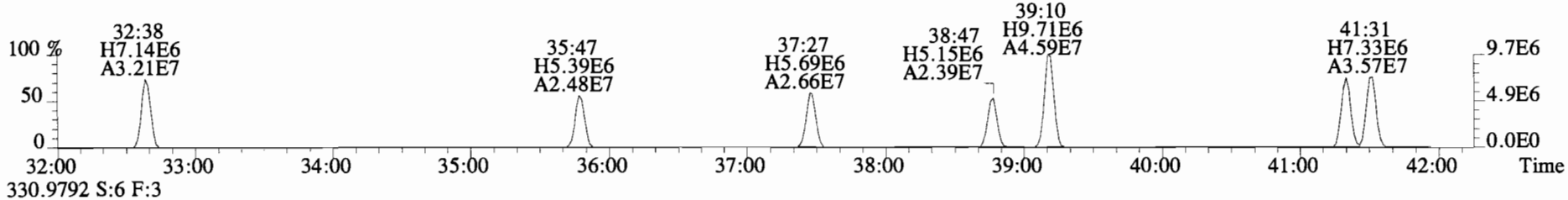
327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3352.0,0.00%,F,F)



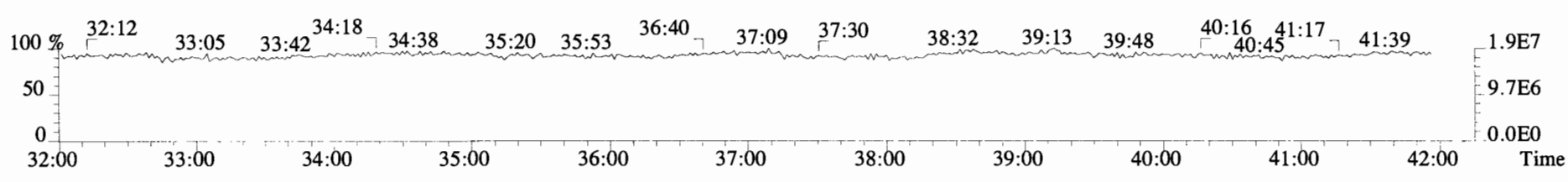
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2692.0,0.00%,F,F)



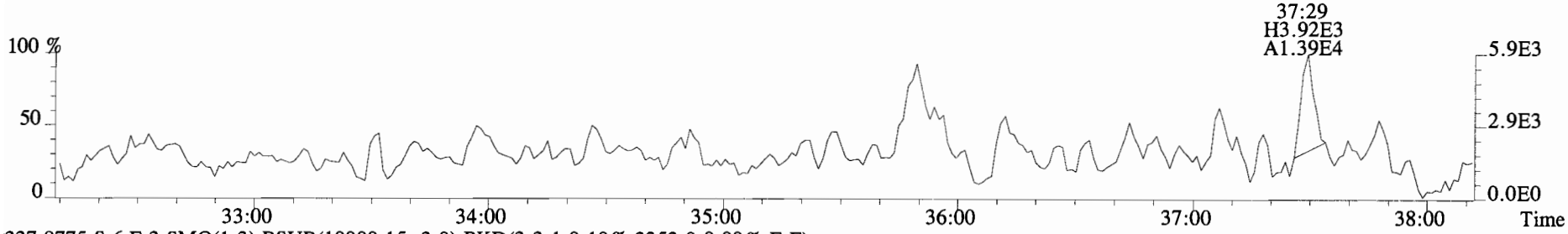
339.9177 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3596.0,0.00%,F,F)



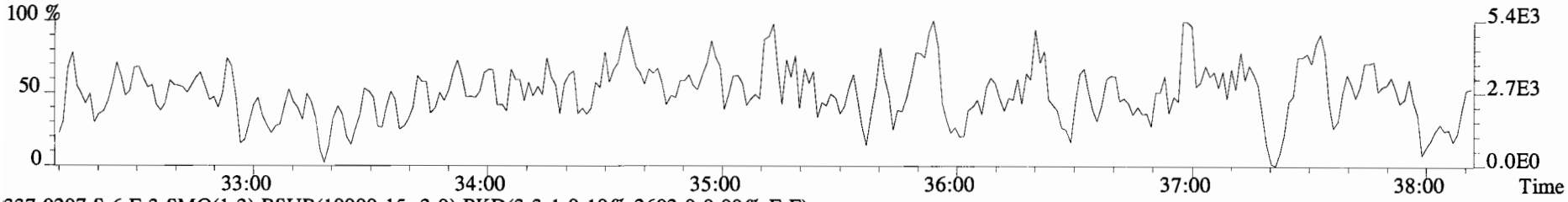
330.9792 S:6 F:3



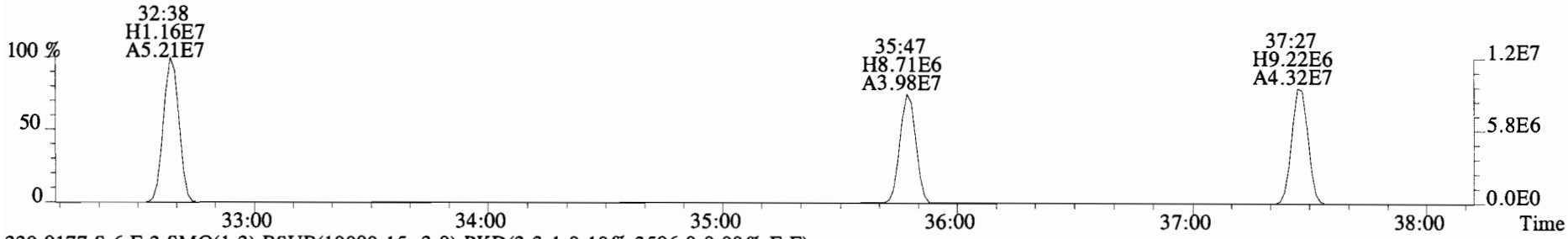
File:141021E2 #1-761 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2100.0,0.00%,F,F)



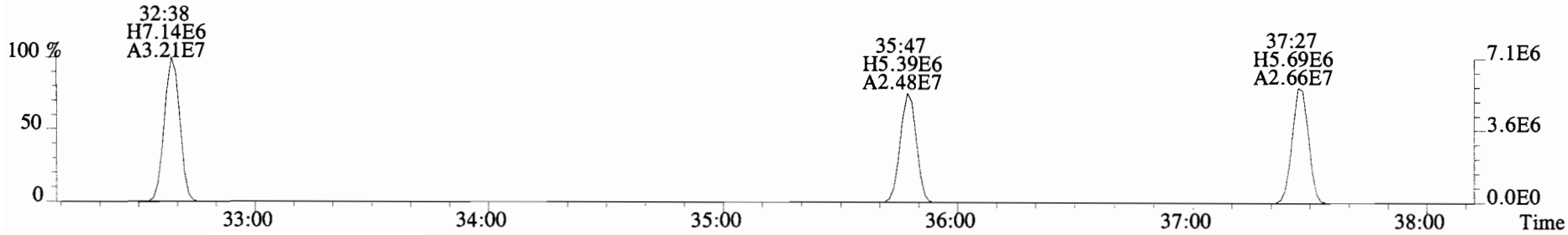
327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3352.0,0.00%,F,F)

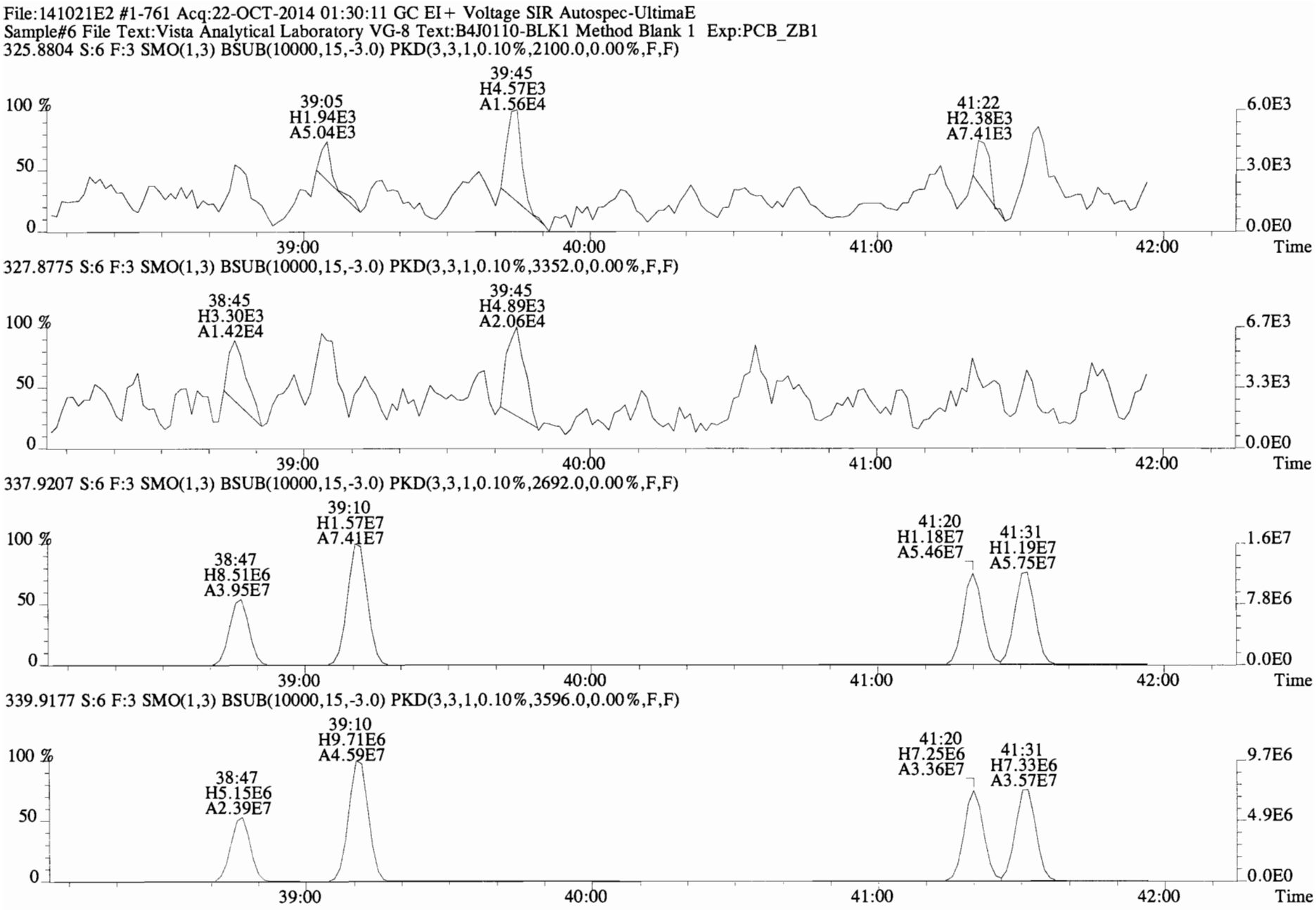


337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2692.0,0.00%,F,F)

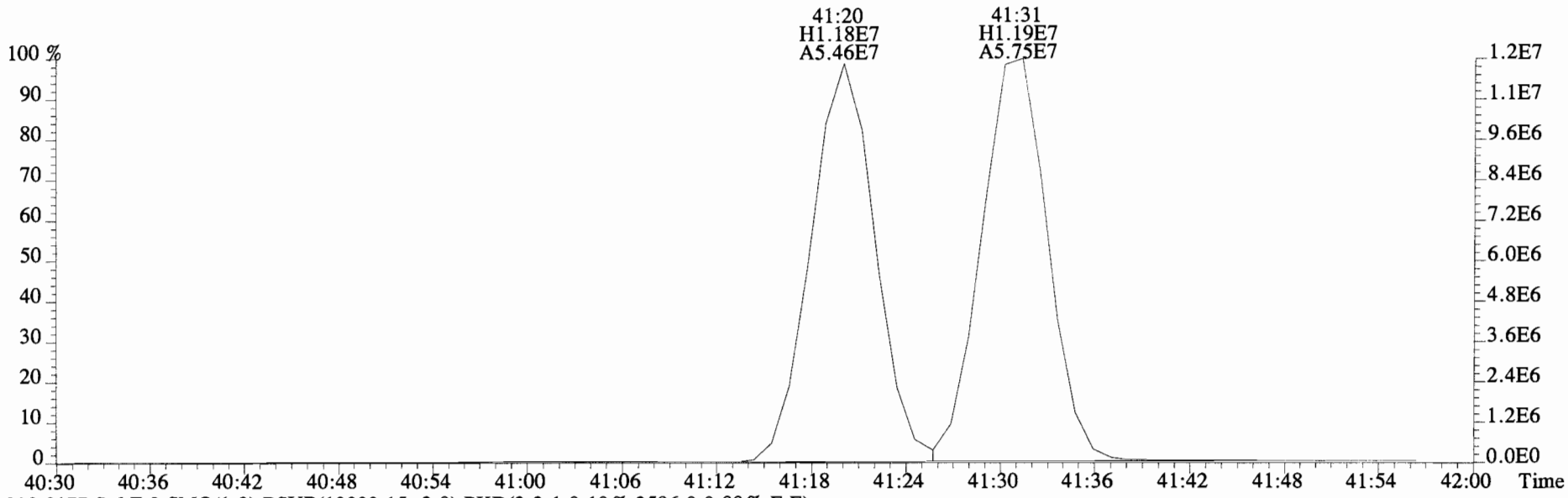


339.9177 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3596.0,0.00%,F,F)

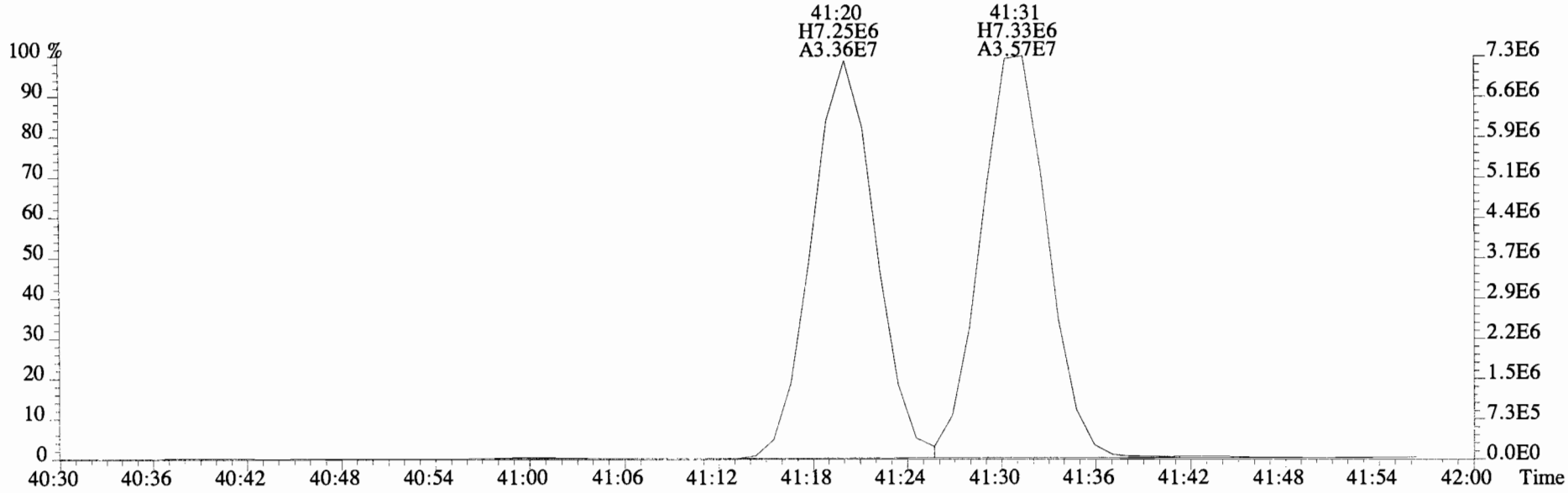



File:141021E2 #1-761 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2100.0,0.00%,F,F)
39:45
H4.57E3
A1.56E4
39:05
H1.94E3
A5.04E3
41:22
H2.38E3
A7.41E3
100 %
50
0
6.0E3
3.0E3
0.0E0
39:00
40:00
41:00
42:00
Time
327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3352.0,0.00%,F,F)
38:45
H3.30E3
A1.42E4
39:45
H4.89E3
A2.06E4
100 %
50
0
6.7E3
3.3E3
0.0E0
39:00
40:00
41:00
42:00
Time
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2692.0,0.00%,F,F)
39:10
H1.57E7
A7.41E7
41:20
H1.18E7
A5.46E7
41:31
H1.19E7
A5.75E7
38:47
H8.51E6
A3.95E7
100 %
50
0
1.6E7
7.8E6
0.0E0
39:00
40:00
41:00
42:00
Time
339.9177 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3596.0,0.00%,F,F)
39:10
H9.71E6
A4.59E7
41:20
H7.25E6
A3.36E7
41:31
H7.33E6
A3.57E7
38:47
H5.15E6
A2.39E7
100 %
50
0
9.7E6
4.9E6
0.0E0
39:00
40:00
41:00
42:00
Time

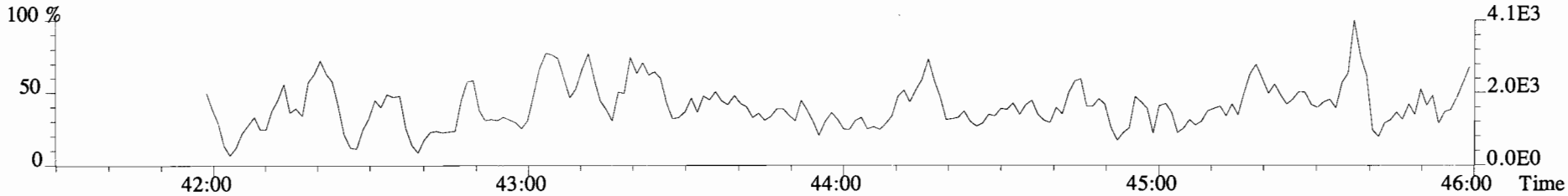
File:141021E2 #1-761 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2692.0,0.00%,F,F)



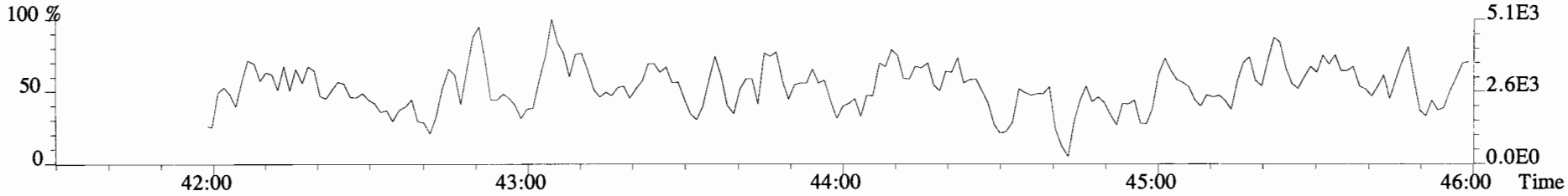
339.9177 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3596.0,0.00%,F,F)



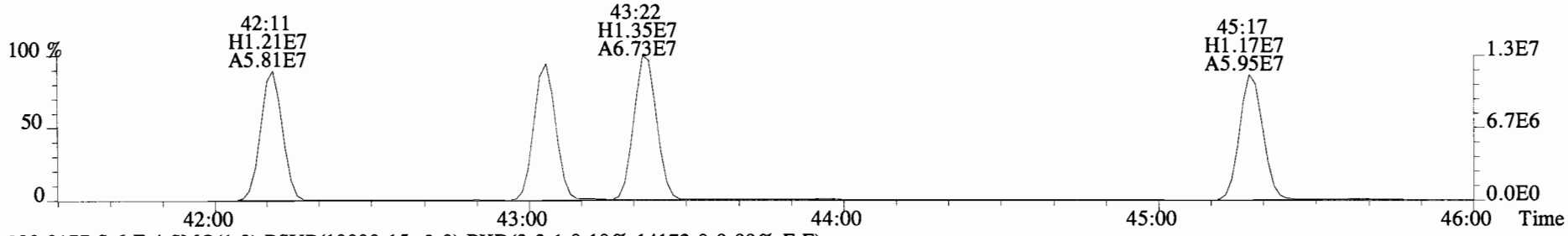
File:141021E2 #1-547 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2056.0,0.00%,F,F)



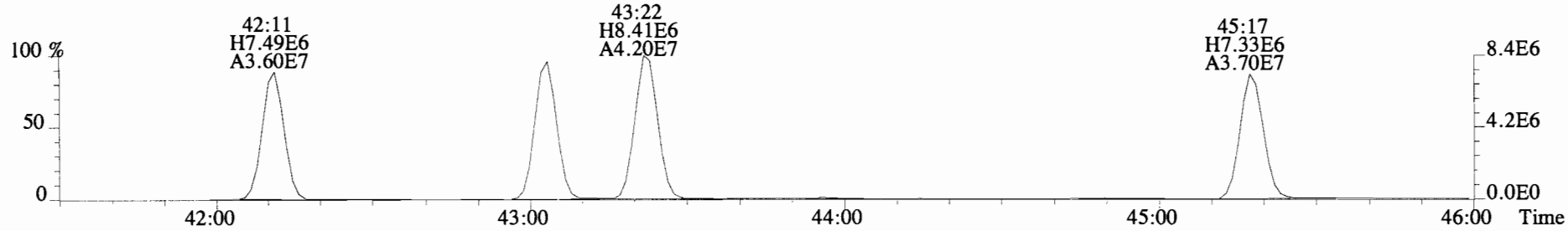
327.8775 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3332.0,0.00%,F,F)



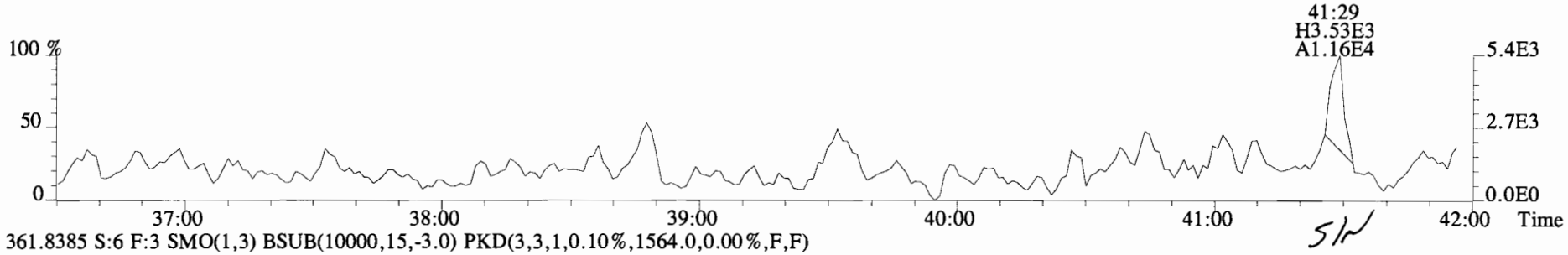
337.9207 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,18212.0,0.00%,F,F)



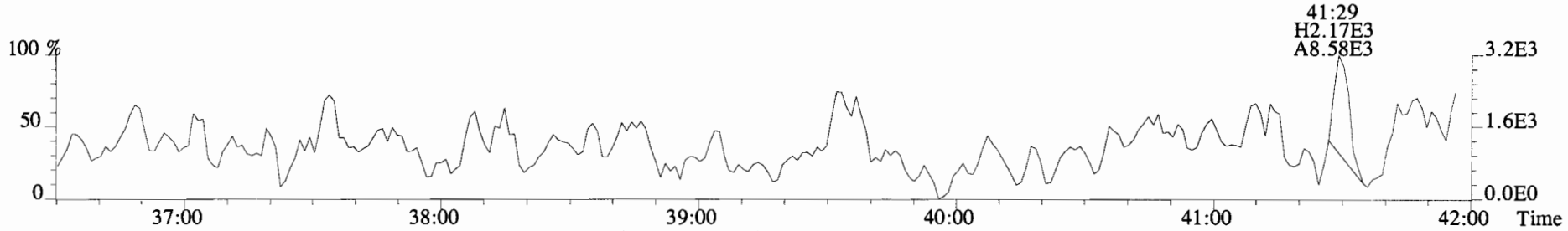
339.9177 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14172.0,0.00%,F,F)



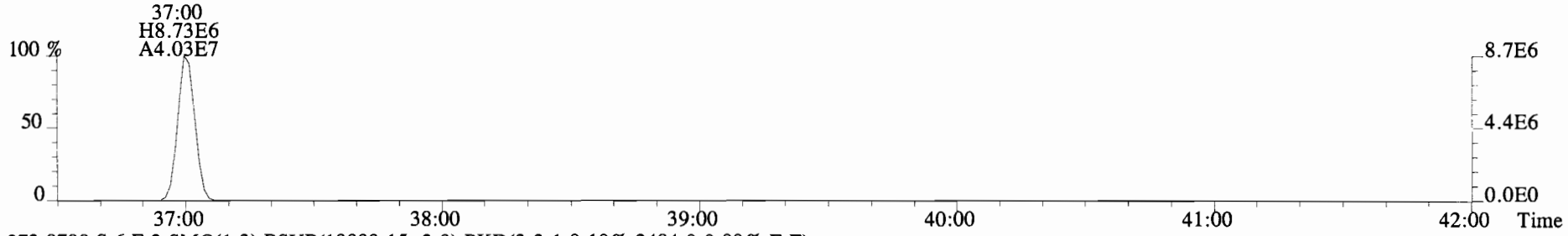
File:141021E2 #1-761 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
359.8415 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1560.0,0.00%,F,F)



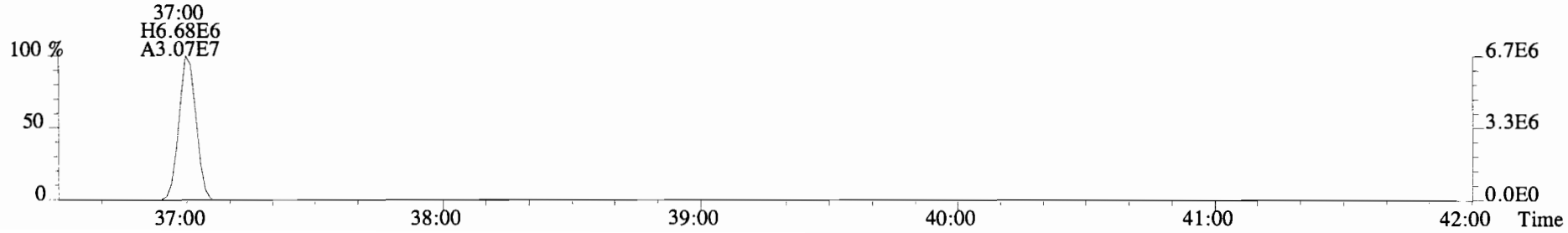
361.8385 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1564.0,0.00%,F,F)

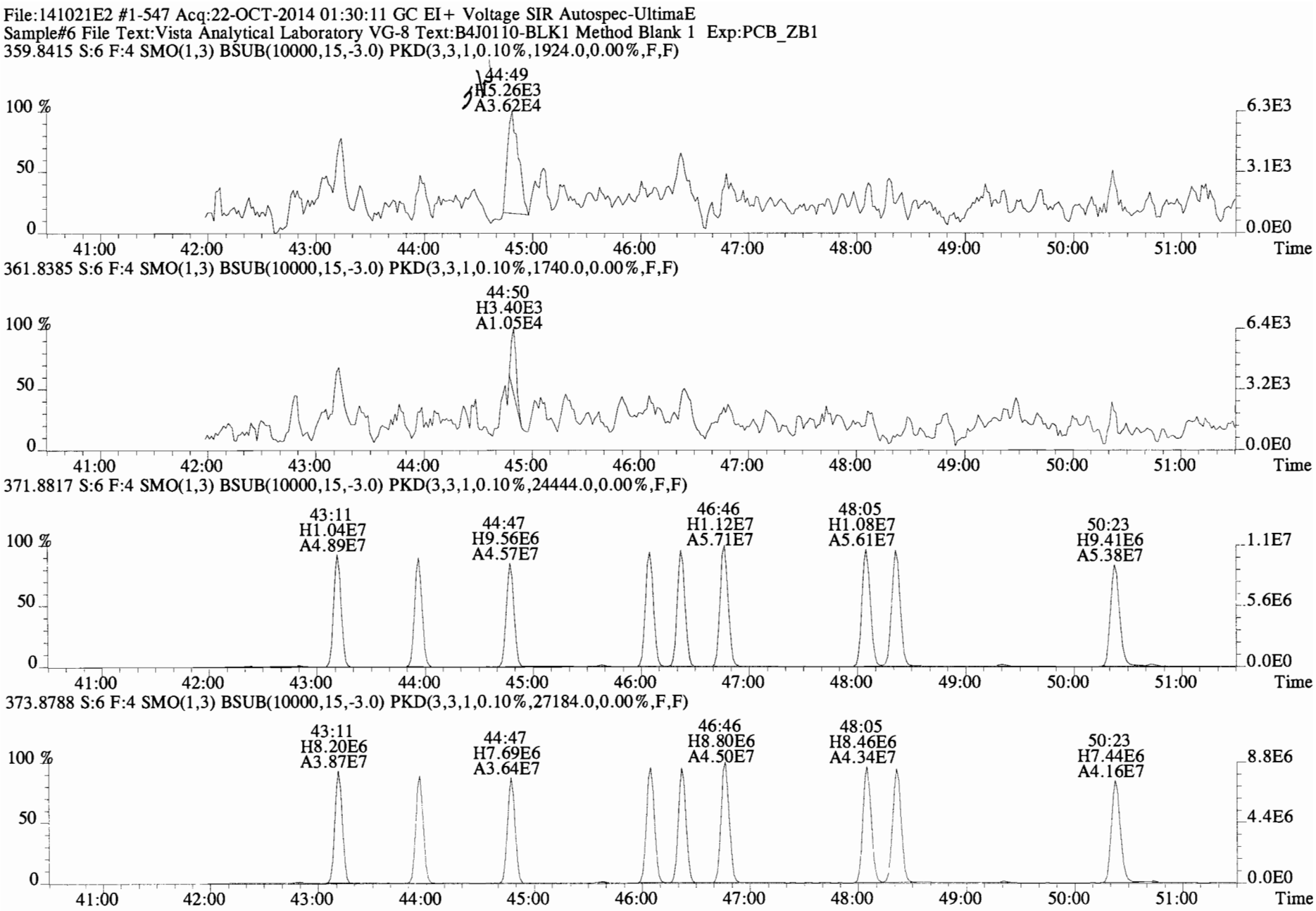


371.8817 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2532.0,0.00%,F,F)

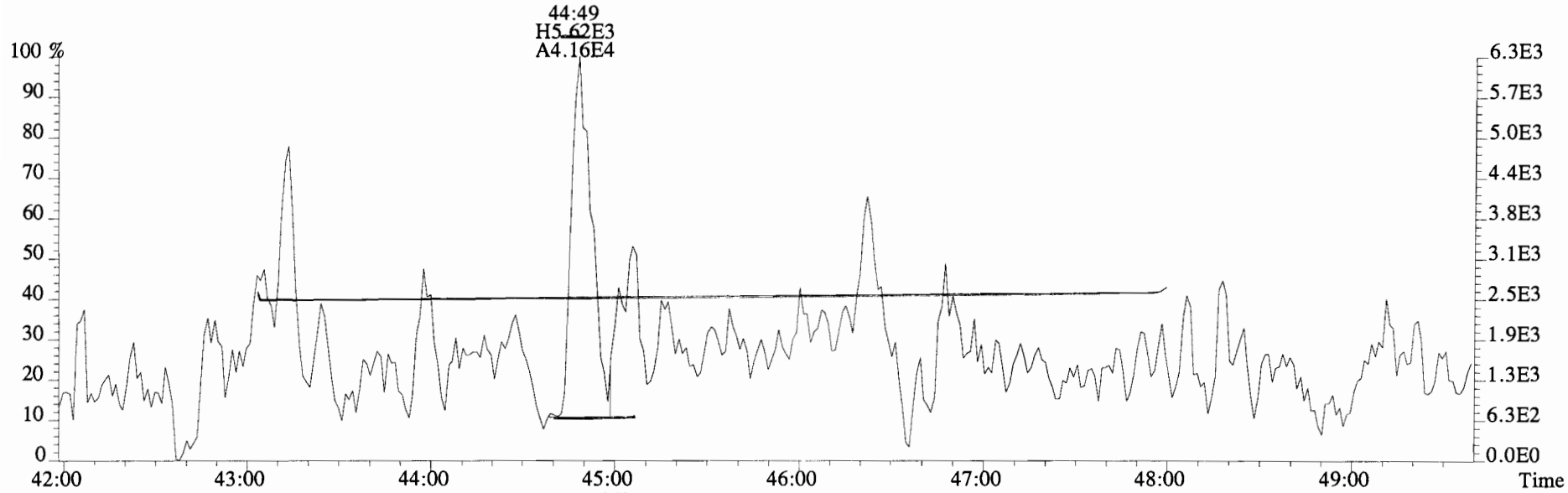


373.8788 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2484.0,0.00%,F,F)

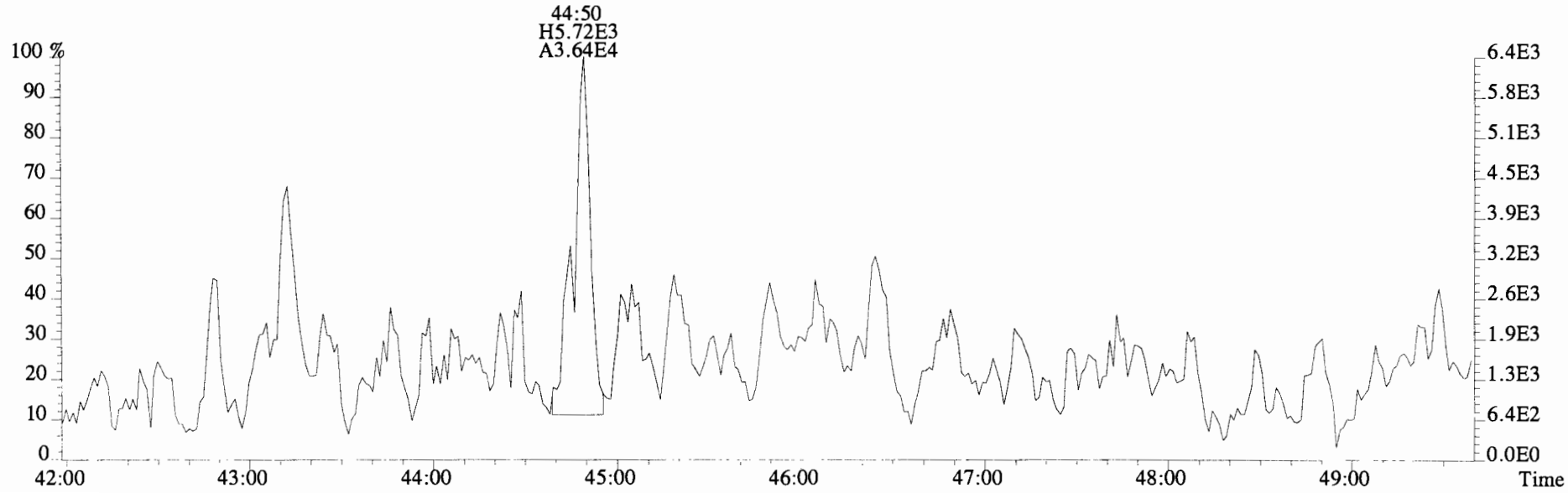



File:141021E2 #1-547 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1924.0,0.00%,F,F)
44:49
H5.26E3
A3.62E4
100 %
50
0
6.3E3
3.1E3
0.0E0
41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 51:00 Time
361.8385 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1740.0,0.00%,F,F)
44:50
H3.40E3
A1.05E4
100 %
50
0
6.4E3
3.2E3
0.0E0
41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 51:00 Time
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24444.0,0.00%,F,F)
43:11
H1.04E7
A4.89E7
44:47
H9.56E6
A4.57E7
46:46
H1.12E7
A5.71E7
48:05
H1.08E7
A5.61E7
50:23
H9.41E6
A5.38E7
100 %
50
0
1.1E7
5.6E6
0.0E0
41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 51:00 Time
373.8788 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,27184.0,0.00%,F,F)
43:11
H8.20E6
A3.87E7
44:47
H7.69E6
A3.64E7
46:46
H8.80E6
A4.50E7
48:05
H8.46E6
A4.34E7
50:23
H7.44E6
A4.16E7
100 %
50
0
8.8E6
4.4E6
0.0E0
41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 51:00 Time

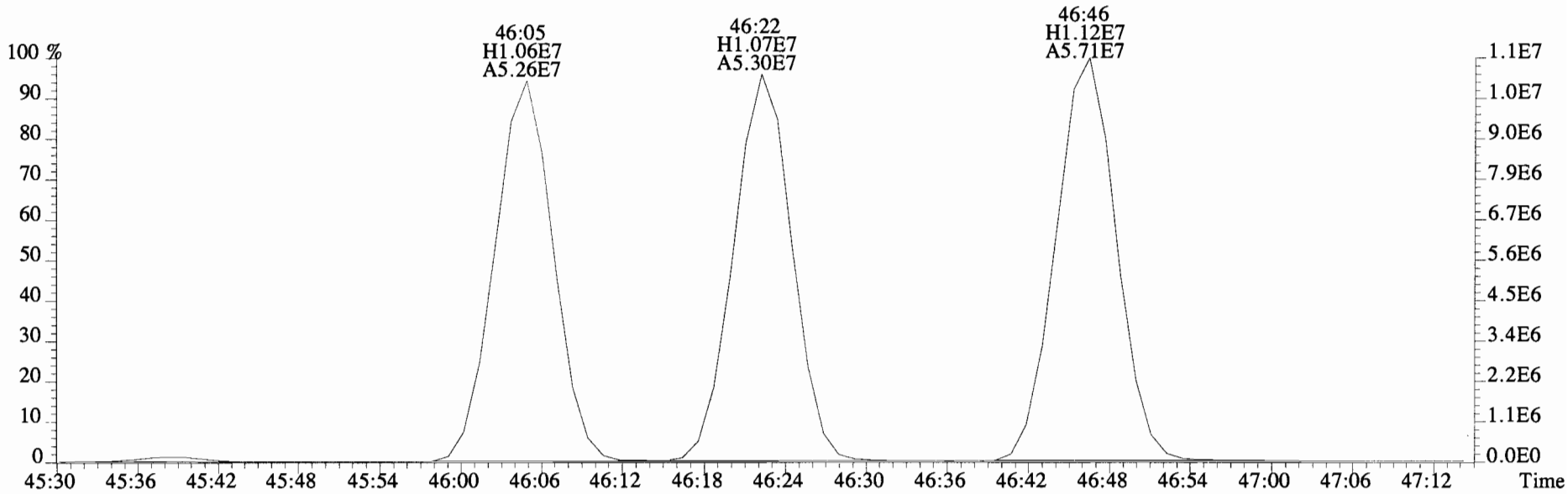
File:141021E2 #1-547 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1924.0,0.00%,F,F)



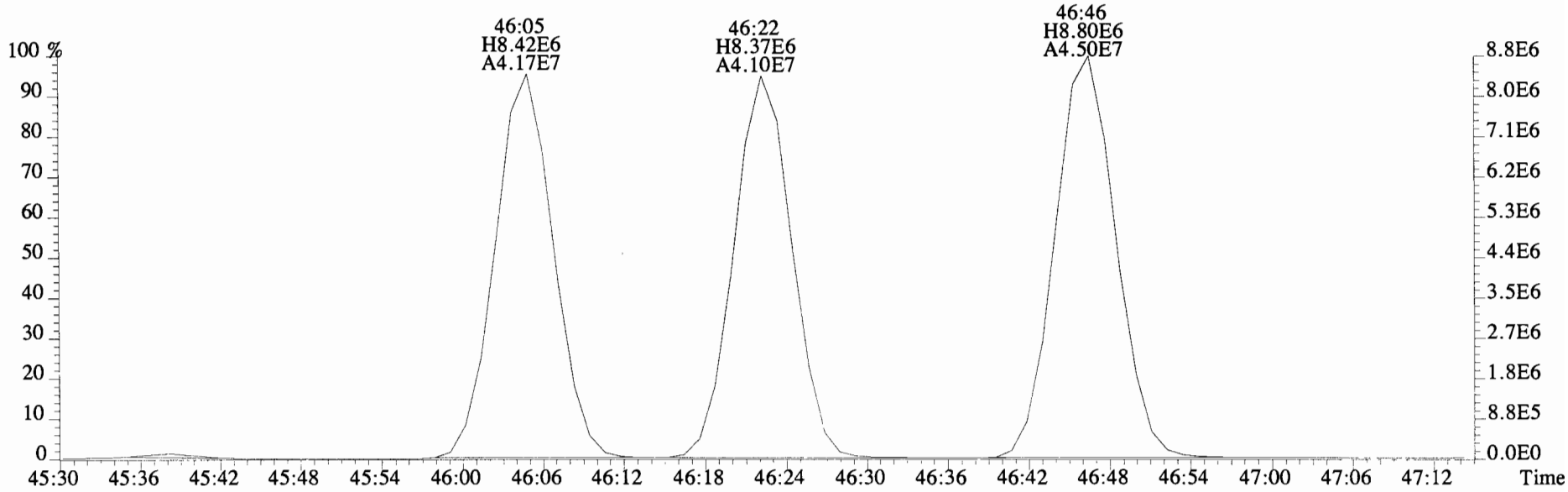
361.8385 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1740.0,0.00%,F,F)



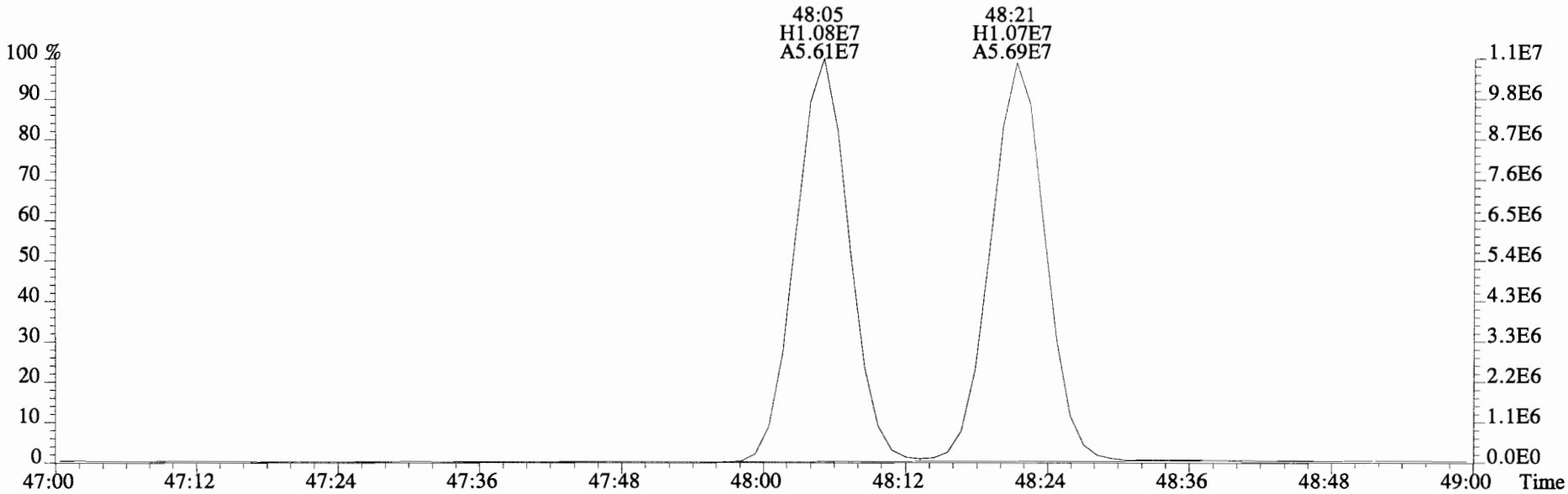
File:141021E2 #1-547 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24444.0,0.00%,F,F)



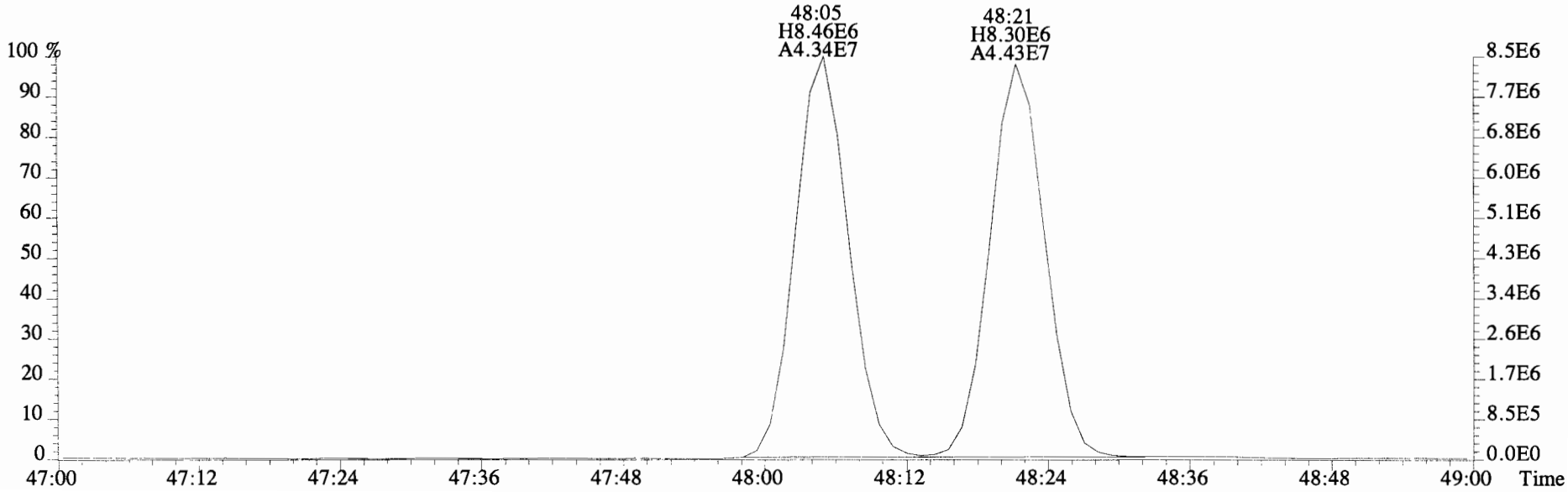
373.8788 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,27184.0,0.00%,F,F)



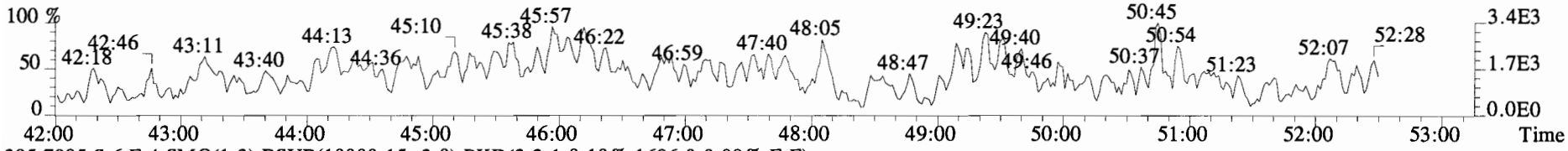
File:141021E2 #1-547 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24444.0,0.00%,F,F)



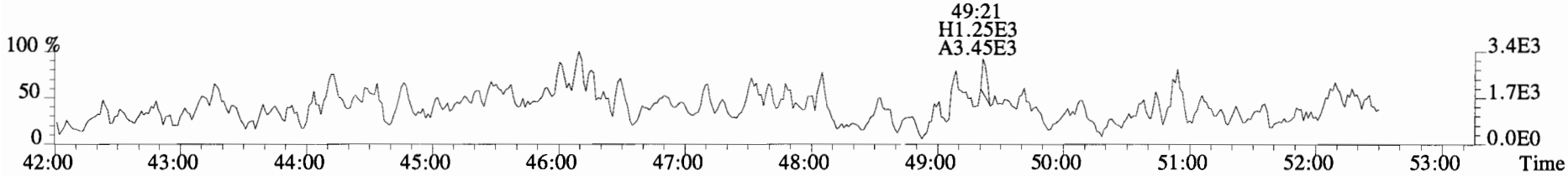
373.8788 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,27184.0,0.00%,F,F)



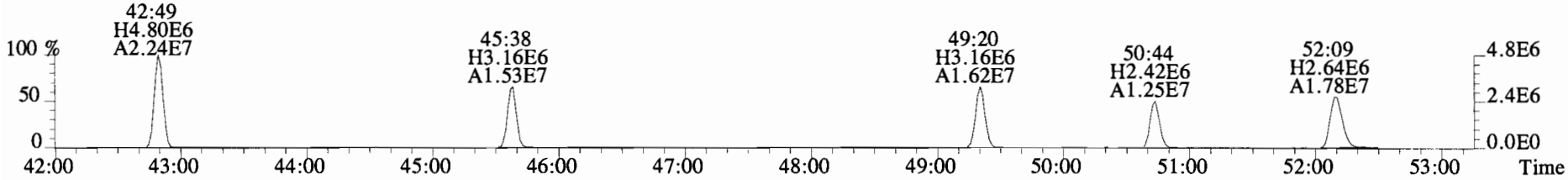
File:141021E2 #1-547 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1700.0,0.00%,F,F)



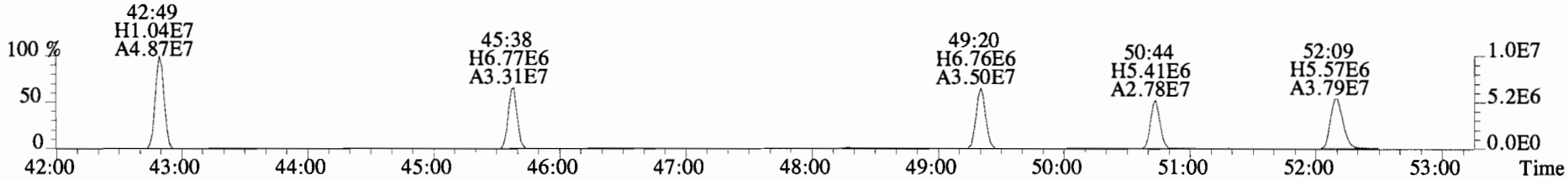
395.7995 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1696.0,0.00%,F,F)



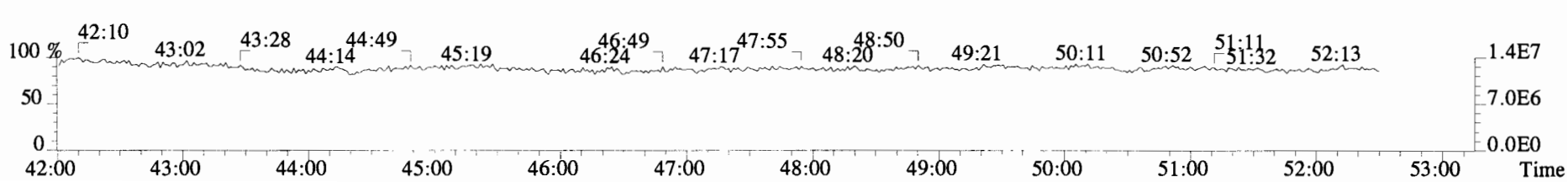
403.8457 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14636.0,0.00%,F,F)



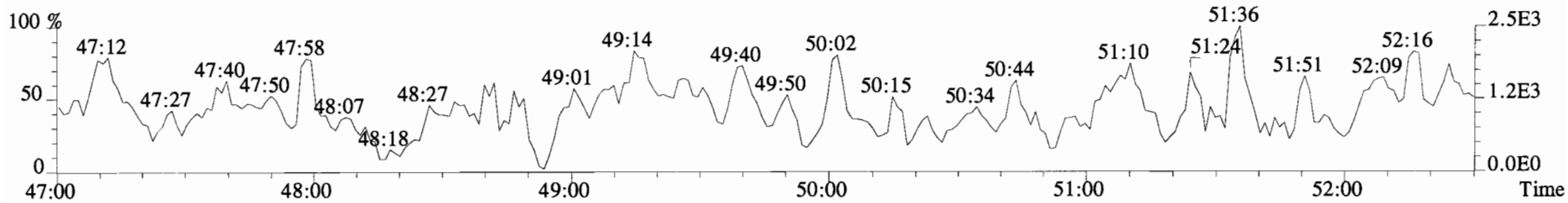
405.8428 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,23780.0,0.00%,F,F)



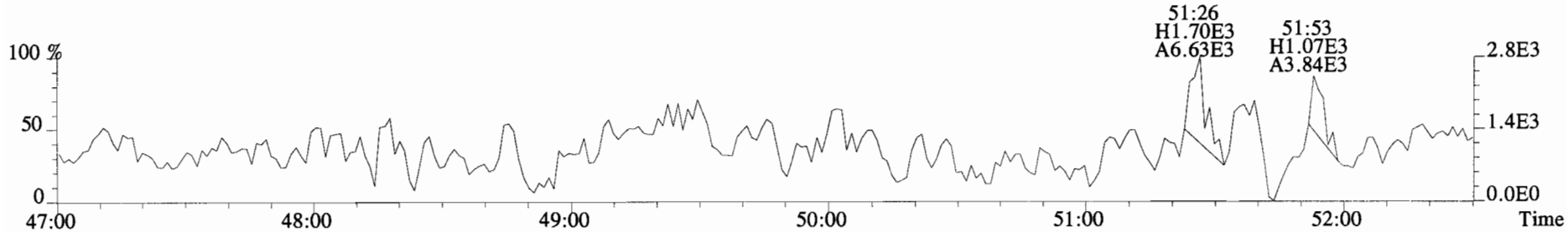
380.9760 S:6 F:4



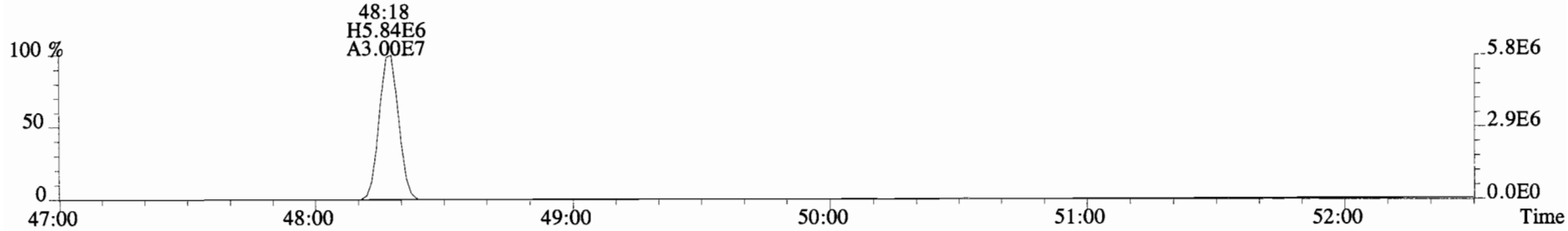
File:141021E2 #1-547 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
427.7635 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1420.0,0.00%,F,F)



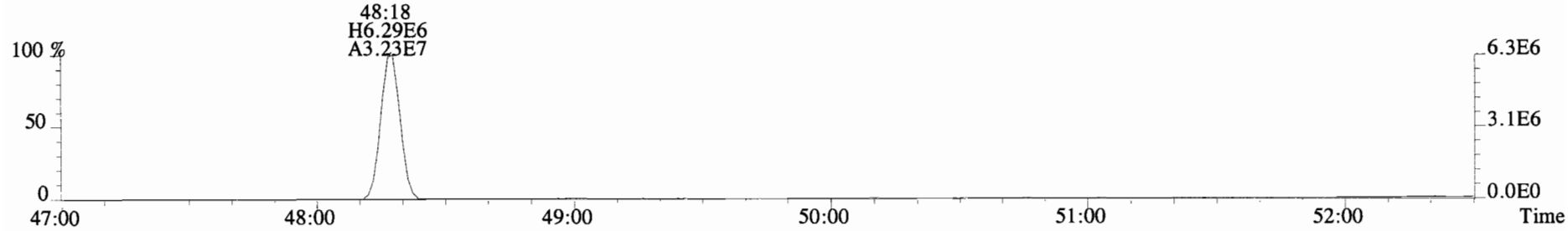
429.7606 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1368.0,0.00%,F,F)



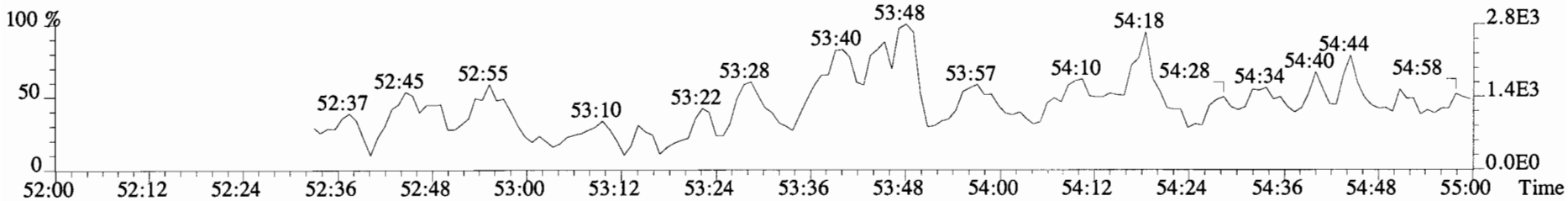
439.8038 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1048.0,0.00%,F,F)



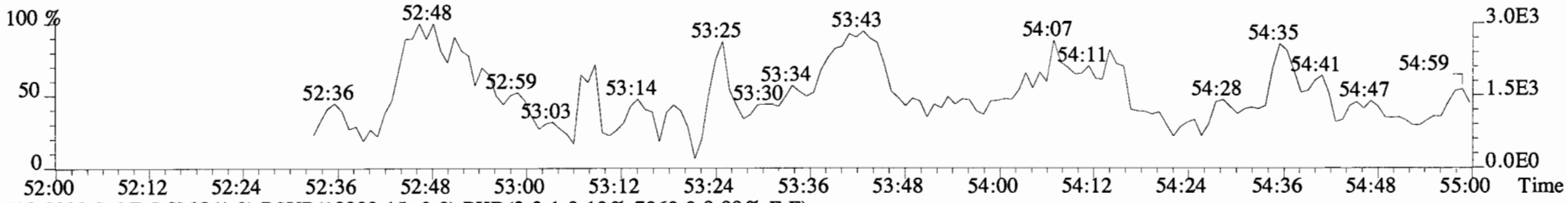
441.8008 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1476.0,0.00%,F,F)



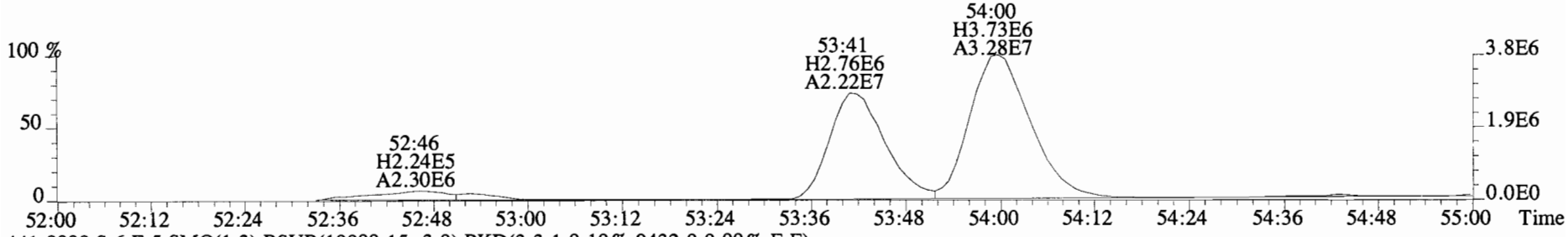
File:141021E2 #1-434 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
427.7635 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1488.0,0.00%,F,F)



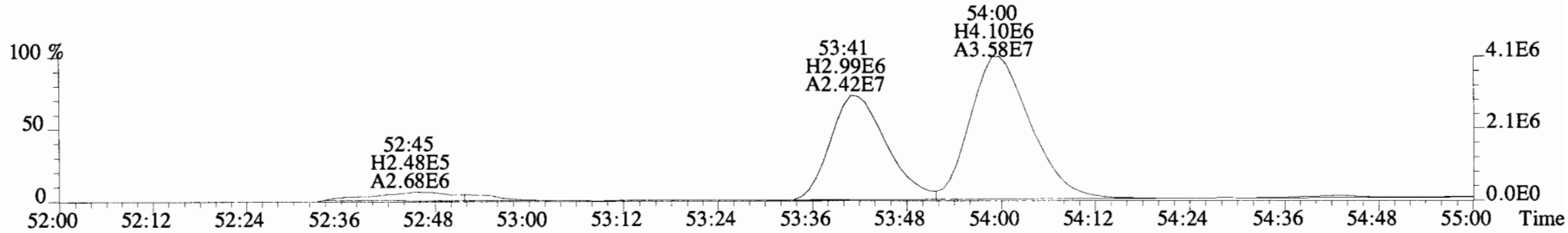
429.7606 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1788.0,0.00%,F,F)



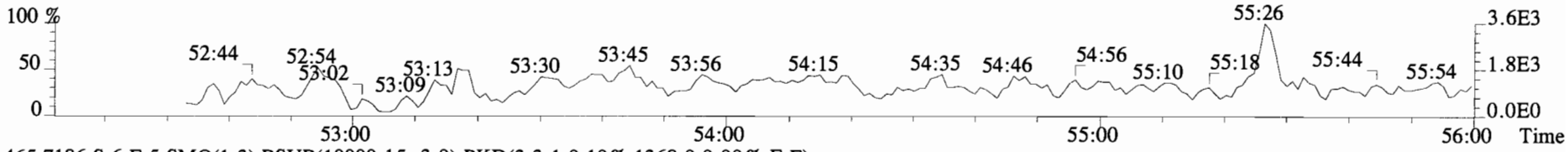
439.8038 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7960.0,0.00%,F,F)



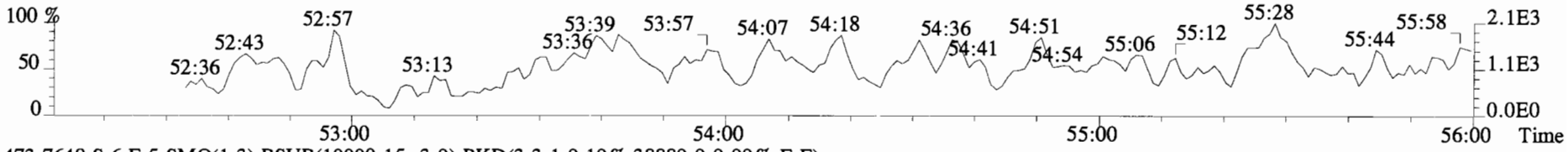
441.8008 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9432.0,0.00%,F,F)



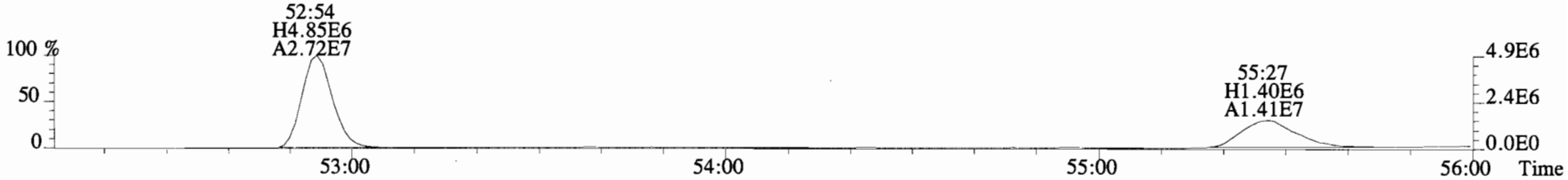
File:141021E2 #1-434 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
463.7216 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1404.0,0.00%,F,F)



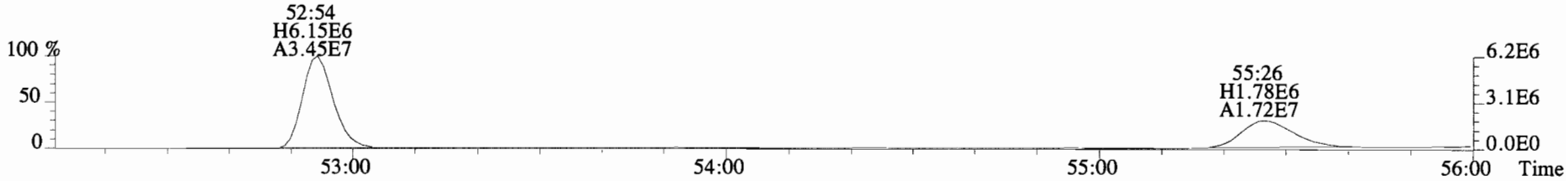
465.7186 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1368.0,0.00%,F,F)



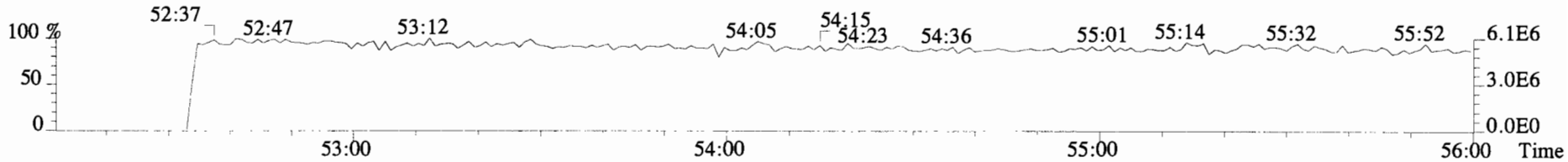
473.7648 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,38880.0,0.00%,F,F)



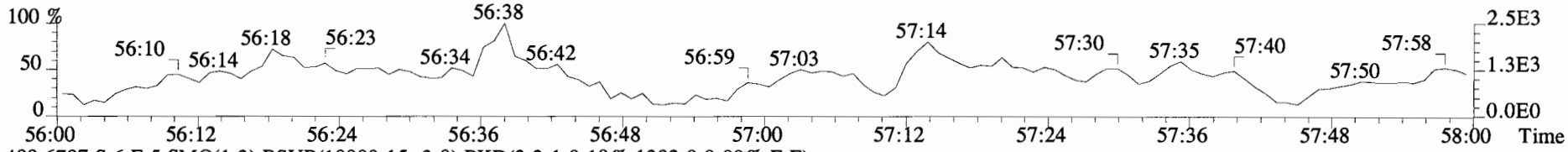
475.7619 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,51888.0,0.00%,F,F)



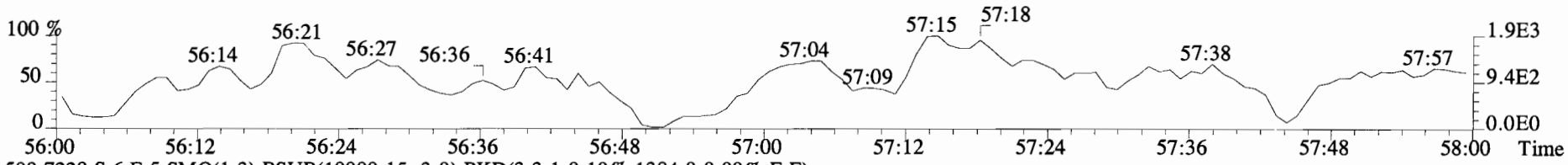
492.9697 S:6 F:5



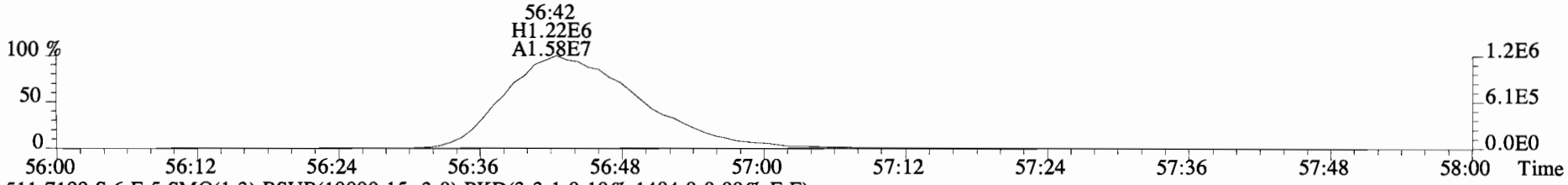
File:141021E2 #1-434 Acq:22-OCT-2014 01:30:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BLK1 Method Blank 1 Exp:PCB_ZB1
497.6826 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1424.0,0.00%,F,F)



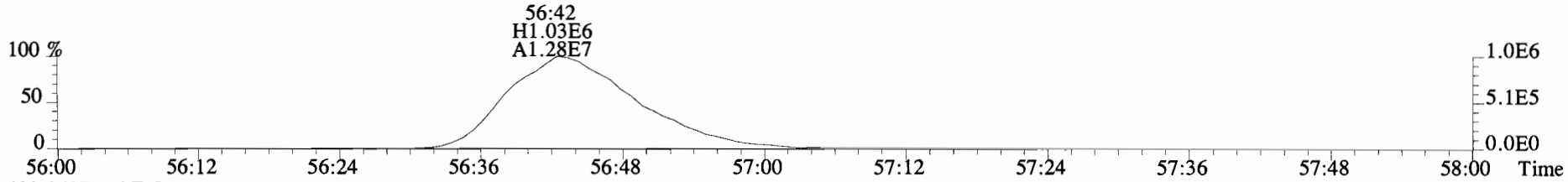
499.6797 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1392.0,0.00%,F,F)



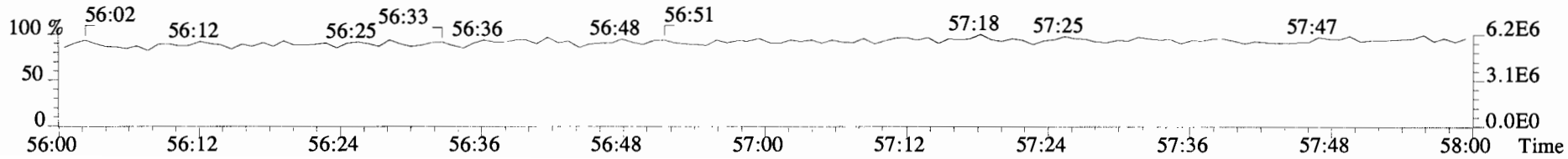
509.7229 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1384.0,0.00%,F,F)



511.7199 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1404.0,0.00%,F,F)



492.9697 S:6 F:5



EPA METHOD 1668A PCB ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory OPR Data Filename: B4J0110-BS1

Matrix : AQUEOUS Ext. Date: 10-20-14 Analysis Date: 21-OCT-14 Time: 23:23:06

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

NATIVE ANALYTES	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	LABELED COMPOUNDS	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	CLEAN UP STANDARD	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)
PCB-1	50	44.9	25.0-75.0	13C-PCB-1	100	82.9	15-140	13C-PCB-79	100	91.8	40-125
PCB-3	50	45.4	25.0-75.0	13C-PCB-3	100	84.7	15-140	13C-PCB-178	100	90.0	40-125
PCB-4/10	200	215.6	100-300	13C-PCB-4	100	66.4	30-140				
PCB-15	100	104.9	50.0-150	13C-PCB-11	100	76.1	30-140				
PCB-19	50	51.0	25.0-75.0	13C-PCB-19	100	82.2	30-140				
PCB-37	50	50.8	25.0-75.0	13C-PCB-37	100	83.4	30-140				
PCB-54	50	50.6	25.0-75.0	13C-PCB-54	100	71.4	30-140				
PCB-81	50	50.2	25.0-75.0	13C-PCB-81	100	86.0	30-140				
PCB-77	50	50.3	25.0-75.0	13C-PCB-77	100	86.3	30-140				
PCB-104	50	52.2	25.0-75.0	13C-PCB-104	100	75.3	30-140				
PCB-123	50	51.4	25.0-75.0	13C-PCB-123	100	83.9	30-140				
PCB-106/118	100	103.6	50.0-150	13C-PCB-118	100	85.0	30-140				
PCB-114	50	55.2	25.0-75.0	13C-PCB-114	100	86.8	30-140				
PCB-105	50	55.5	25.0-75.0	13C-PCB-105	100	88.4	30-140				
PCB-126	50	54.1	25.0-75.0	13C-PCB-126	100	92.0	30-140				
PCB-155	50	55.0	25.0-75.0	13C-PCB-155	100	75.8	30-140				
PCB-167	50	54.7	25.0-75.0	13C-PCB-167	100	87.8	30-140				
PCB-156	50	53.0	25.0-75.0	13C-PCB-156	100	88.7	30-140				
PCB-157	50	54.2	25.0-75.0	13C-PCB-157	100	86.9	30-140				
PCB-169	50	53.8	25.0-75.0	13C-PCB-169	100	88.4	30-140				
PCB-188	50	54.0	25.0-75.0	13C-PCB-188	100	84.5	30-140				
PCB-189	50	56.1	25.0-75.0	13C-PCB-189	100	89.2	30-140				
PCB-202	50	52.7	25.0-75.0	13C-PCB-202	100	81.5	30-140				
PCB-205	50	53.2	25.0-75.0	13C-PCB-194	100	86.1	30-140				
PCB-208	50	52.6	25.0-75.0	13C-PCB-208	100	85.1	30-140				
PCB-206	50	52.9	25.0-75.0	13C-PCB-206	100	72.3	30-140				
PCB-209	50	54.4	25.0-75.0	13C-PCB-209	100	69.2	30-140				

Analyst: DMS

Date: 10/27/14

EPA METHOD 1668C PCB ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory OPR Data Filename: B4J0110-BS1

Matrix : AQUEOUS Ext. Date: 10-20-14 Analysis Date: 21-OCT-14 Time: 23:23:06

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

NATIVE ANALYTES	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	LABELED COMPOUNDS	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	CLEAN UP STANDARD	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)
PCB-1	50	44.9	30.0-67.5	13C-PCB-1	100	82.9	15-145	13C-PCB-79	100	91.8	40-145
PCB-3	50	45.4	30.0-67.5	13C-PCB-3	100	84.7	15-145	13C-PCB-178	100	90.0	40-145
PCB-4/10	200	215.6	120-270	13C-PCB-4	100	66.4	15-145				
PCB-15	100	104.9	60.0-135	13C-PCB-11	100	76.1	15-145				
PCB-19	50	51.0	30.0-67.5	13C-PCB-19	100	82.2	15-145				
PCB-37	50	50.8	30.0-67.5	13C-PCB-37	100	83.4	15-145				
PCB-54	50	50.6	30.0-67.5	13C-PCB-54	100	71.4	15-145				
PCB-81	50	50.2	30.0-67.5	13C-PCB-81	100	86.0	40-145				
PCB-77	50	50.3	30.0-67.5	13C-PCB-77	100	86.3	40-145				
PCB-104	50	52.2	30.0-67.5	13C-PCB-104	100	75.3	40-145				
PCB-123	50	51.4	30.0-67.5	13C-PCB-123	100	83.9	40-145				
PCB-106/118	100	103.6	60.0-135	13C-PCB-118	100	85.0	40-145				
PCB-114	50	55.2	30.0-67.5	13C-PCB-114	100	86.8	40-145				
PCB-105	50	55.5	30.0-67.5	13C-PCB-105	100	88.4	40-145				
PCB-126	50	54.1	30.0-67.5	13C-PCB-126	100	92.0	40-145				
PCB-155	50	55.0	30.0-67.5	13C-PCB-155	100	75.8	40-145				
PCB-167	50	54.7	30.0-67.5	13C-PCB-167	100	87.8	40-145				
PCB-156	50	53.0	30.0-67.5	13C-PCB-156	100	88.7	40-145				
PCB-157	50	54.2	30.0-67.5	13C-PCB-157	100	86.9	40-145				
PCB-169	50	53.8	30.0-67.5	13C-PCB-169	100	88.4	40-145				
PCB-188	50	54.0	30.0-67.5	13C-PCB-188	100	84.5	40-145				
PCB-189	50	56.1	30.0-67.5	13C-PCB-189	100	89.2	40-145				
PCB-202	50	52.7	30.0-67.5	13C-PCB-202	100	81.5	40-145				
PCB-205	50	53.2	30.0-67.5	13C-PCB-194	100	86.1	40-145				
PCB-208	50	52.6	30.0-67.5	13C-PCB-208	100	85.1	40-145				
PCB-206	50	52.9	30.0-67.5	13C-PCB-206	100	72.3	40-145				
PCB-209	50	54.4	30.0-67.5	13C-PCB-209	100	69.2	40-145				

Analyst: DMS

Date: 10/27/14

Client ID: OPR Filename: 141021E2 S:4 Acq:21-OCT-14 23:23:06 ConCal: ST141021E2-1
Lab ID: B4J0110-BS1 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-1	6.76e+07	2.89	y	1.25	16:31	1.001	0.996	1.006	44.9123
	PCB-2	7.06e+07	2.96	y	1.18	18:47	0.989	0.983	0.993	46.8705
	PCB-3	7.06e+07	2.95	y	1.22	19:01	1.001	0.996	1.006	45.4142
	PCB-4/10	1.98e+08	1.61	y	1.55	20:20	1.002	0.998	1.008	215.638
	PCB-7/9	2.48e+08	1.62	y	1.27	22:03	0.872	0.865	0.873	209.964
	PCB-6	1.25e+08	1.63	y	1.26	22:41	0.897	0.890	0.899	106.859
	PCB-5/8	2.54e+08	1.63	y	1.23	23:06	0.913	0.906	0.916	221.144
	PCB-14	1.44e+08	1.62	y	1.23	24:09	0.955	0.949	0.959	101.062
	PCB-11	1.43e+08	1.64	y	1.16	25:20	1.001	0.996	1.006	106.311
	PCB-12/13	2.68e+08	1.62	y	1.10	25:43	1.016	1.010	1.020	210.611
	PCB-15	1.47e+08	1.62	y	1.21	26:01	1.028	1.024	1.034	104.897
	PCB-19	4.69e+07	1.04	y	1.30	24:21	1.001	0.996	1.006	50.9742
	PCB-30	6.92e+07	1.05	y	1.83	25:13	1.036	1.032	1.042	53.1804
	PCB-18	4.99e+07	1.05	y	0.86	25:57	0.955	0.949	0.959	50.8258
	PCB-17	5.21e+07	1.06	y	0.90	26:07	0.961	0.955	0.965	50.5890
	PCB-24/27	1.43e+08	1.06	y	1.18	26:41	0.982	0.976	0.986	106.650
-	PCB-16/32	1.22e+08	1.05	y	1.03	27:11	1.000	0.995	1.005	103.298
-	PCB-34	6.70e+07	1.03	y	1.26	27:58	0.961	0.956	0.966	54.4604
	PCB-23	5.98e+07	1.05	y	1.31	28:03	0.964	0.959	0.969	46.7480
	PCB-29	6.45e+07	1.04	y	1.33	28:18	0.973	0.967	0.977	49.7828
	PCB-26	6.40e+07	1.04	y	1.29	28:30	0.979	0.974	0.984	50.8178
	PCB-25	6.91e+07	1.03	y	1.34	28:40	0.985	0.980	0.990	52.7481
	PCB-31	6.96e+07	1.02	y	1.42	29:00	0.997	0.992	1.002	50.3007
	PCB-28	6.80e+07	1.04	y	1.38	29:07	1.001	0.996	1.006	50.6184
	PCB-20/21/33	1.99e+08	1.04	y	1.31	29:43	1.021	1.017	1.027	155.681
	PCB-22	6.82e+07	1.03	y	1.32	30:11	1.037	1.032	1.042	52.9076
	PCB-36	6.98e+07	1.05	y	1.38	30:46	0.934	0.929	0.939	48.5579
	PCB-39	6.83e+07	1.03	y	1.42	31:14	0.948	0.943	0.953	46.0988
	PCB-38	6.99e+07	1.04	y	1.35	32:01	0.972	0.967	0.976	49.4636
	PCB-35	7.10e+07	1.03	y	1.38	32:32	0.987	0.982	0.992	49.4248
	PCB-37	7.38e+07	1.07	y	1.39	32:58	1.001	0.996	1.006	50.8314
	PCB-54	5.36e+07	0.76	y	1.20	28:02	1.001	0.996	1.006	50.6453
	PCB-50	4.30e+07	0.75	y	0.97	29:10	1.041	1.037	1.047	50.3242
	PCB-53	4.49e+07	0.76	y	1.19	29:49	0.947	0.941	0.951	47.9740
	PCB-51	4.47e+07	0.75	y	1.15	30:09	0.958	0.952	0.962	49.1540
	PCB-45	3.80e+07	0.76	y	0.97	30:35	0.971	0.966	0.976	49.8783
	PCB-46	3.54e+07	0.76	y	0.95	31:05	0.987	0.982	0.992	47.1937

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
PCB-52/69	9.96e+07	0.81	y	1.28	31:31	1.001	0.996	1.006	98.9149
PCB-73	5.32e+07	0.65	n	1.37	31:38	1.005	1.000	1.010	49.1842
PCB-43/49	8.78e+07	0.75	y	1.11	31:48	1.010	1.005	1.015	100.178
PCB-47	4.34e+07	0.74	y	1.13	32:01	1.001	0.996	1.006	46.9218
PCB-48/75	1.13e+08	0.75	y	1.30	32:07	1.004	0.999	1.009	105.825
PCB-65	5.60e+07	0.75	y	1.33	32:24	1.012	1.007	1.017	51.4316
PCB-62	5.74e+07	0.76	y	1.29	32:30	1.016	1.011	1.021	54.4818
PCB-44	4.09e+07	0.75	y	0.94	32:49	1.026	1.020	1.030	53.3399
PCB-42/59	1.05e+08	0.74	y	1.22	33:02	1.032	1.028	1.038	105.487
PCB-41/64/71/72	2.20e+08	0.76	y	1.31	33:36	1.050	1.046	1.056	205.346
PCB-68	6.33e+07	0.74	y	1.49	33:51	1.058	1.054	1.064	52.2469
PCB-40	3.44e+07	0.76	y	0.82	34:06	1.066	1.061	1.071	51.4856
PCB-57	6.12e+07	0.76	y	1.11	34:26	0.970	0.965	0.975	49.2666
PCB-67	6.02e+07	0.76	y	1.07	34:45	0.979	0.974	0.984	50.2817
PCB-58	6.08e+07	0.76	y	1.10	34:51	0.982	0.977	0.987	49.4943
PCB-63	6.40e+07	0.76	y	1.12	35:00	0.986	0.982	0.992	51.4274
PCB-74	6.76e+07	0.76	y	1.20	35:18	0.995	0.990	1.000	50.3951
PCB-61/70	1.24e+08	0.76	y	1.08	35:29	1.000	0.994	1.004	102.725
PCB-76/66	1.30e+08	0.76	y	1.14	35:41	1.006	1.001	1.011	102.595
PCB-80	7.52e+07	0.77	y	1.28	35:55	1.000	0.996	1.006	49.4478
PCB-55	6.71e+07	0.77	y	1.11	36:15	1.010	1.005	1.015	50.7982
PCB-56/60	1.27e+08	0.75	y	1.09	36:45	1.024	1.018	1.028	98.3266
PCB-79	6.98e+07	0.77	y	1.12	37:48	1.053	1.048	1.058	52.1982
PCB-78	6.57e+07	0.75	y	1.24	38:30	0.987	0.982	0.992	50.6527
PCB-81	7.27e+07	0.76	y	1.38	39:02	1.000	0.995	1.005	50.1606
PCB-77	6.82e+07	0.75	y	1.21	39:38	1.000	0.995	1.005	50.2815
PCB-104	4.60e+07	1.58	y	1.26	32:40	1.001	0.996	1.006	52.2308
PCB-96	3.97e+07	1.53	y	1.09	33:56	1.039	1.034	1.044	51.8728
PCB-103	3.45e+07	1.57	y	0.93	34:26	1.055	1.050	1.060	52.8160
PCB-100	3.78e+07	1.57	y	1.00	34:48	1.066	1.061	1.071	53.9465
PCB-94	3.09e+07	1.57	y	1.11	35:16	0.985	0.981	0.991	51.0771
PCB-95/98/102	1.03e+08	1.55	y	1.21	35:46	0.999	0.994	1.004	155.773
PCB-93	3.15e+07	1.57	y	1.13	35:54	1.003	0.998	1.008	51.1725
PCB-88/91	6.46e+07	1.60	y	1.02	36:11	1.011	1.006	1.016	116.109
PCB-121	4.93e+07	1.58	y	1.90	36:17	1.014	1.009	1.019	47.4973
PCB-84/92	6.65e+07	1.57	y	1.05	37:07	0.991	0.986	0.996	104.554
PCB-89	3.23e+07	1.55	y	1.02	37:19	0.996	0.991	1.001	52.5451

RL: MONO, TRI - DECA: —

RL: DI : _____

Integrations by Analyst: DMS Date: 10/28/14

Reviewed by Analyst: [signature] Date: 10/28/14

Client ID: OPR Filename: 141021E2 S:4 Acq:21-OCT-14 23:23:06 ConCal: ST141021E2-1
Lab ID: B4J0110-BS1 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-90/101	7.49e+07	1.57	y	1.19	37:28	1.000	0.996	1.006	104.013
	PCB-113	4.52e+07	1.59	y	1.35	37:43	1.007	1.002	1.012	55.2916
	PCB-99	3.95e+07	1.60	y	1.29	37:49	1.009	1.005	1.015	50.6560
	PCB-119	4.99e+07	1.58	y	1.72	38:16	0.987	0.982	0.992	54.4411
	PCB-108/112	7.18e+07	1.58	y	1.29	38:26	0.991	0.986	0.996	104.720
	PCB-83	4.34e+07	1.57	y	1.52	38:35	0.995	0.991	1.001	53.6878
	PCB-97	3.43e+07	1.56	y	1.25	38:48	1.000	0.996	1.006	51.6583
	PCB-86	2.68e+07	1.56	y	1.02	38:56	1.004	1.000	1.010	49.2126
	B-87/117/125	1.29e+08	1.57	y	1.56	39:04	1.007	1.002	1.012	154.923
	PCB-111/115	9.40e+07	1.56	y	1.75	39:13	1.011	1.007	1.017	100.850
	PCB-85/116	7.57e+07	1.58	y	1.30	39:21	1.015	1.010	1.020	109.296
	PCB-120	5.03e+07	1.56	y	1.78	39:34	1.020	1.016	1.026	53.0454
	PCB-110	4.76e+07	1.55	y	1.68	39:45	1.025	1.020	1.030	53.2088
	PCB-82	2.76e+07	1.51	y	0.74	40:22	0.977	0.972	0.982	50.1747
	PCB-124	5.12e+07	1.56	y	1.32	41:02	0.993	0.988	0.998	52.0773
	PCB-107/109	1.00e+08	1.57	y	1.22	41:11	0.996	0.991	1.001	110.208
	PCB-123	4.66e+07	1.56	y	1.22	41:21	1.000	0.995	1.005	51.3843
-	PCB-106/118	9.91e+07	1.60	y	1.22	41:34	1.001	0.996	1.006	103.557
-	PCB-114	5.80e+07	1.62	y	1.36	42:12	1.000	0.995	1.005	55.1989
	PCB-122	5.20e+07	1.64	y	1.24	42:20	1.004	0.999	1.009	54.1574
	PCB-105	5.77e+07	1.62	y	1.28	43:04	1.000	0.995	1.005	55.5092
	PCB-127	5.50e+07	1.61	y	1.14	43:23	1.000	0.995	1.005	53.3267
	PCB-126	5.50e+07	1.63	y	1.28	45:19	1.000	0.995	1.005	54.1228
	PCB-155	3.68e+07	1.26	y	1.14	37:01	1.000	0.966	1.006	54.9748
	PCB-150	3.50e+07	1.26	y	1.06	38:18	1.035	1.030	1.040	55.8465
	PCB-152	3.49e+07	1.26	y	1.10	38:47	1.048	1.043	1.053	53.9947
	PCB-145	3.47e+07	1.27	y	1.09	39:14	1.060	1.055	1.065	53.9844
	PCB-136	3.68e+07	1.23	y	1.08	39:33	1.068	1.064	1.074	57.6814
	PCB-148	2.34e+07	1.31	y	0.74	39:38	1.071	1.066	1.076	53.5483
	PCB-154	2.91e+07	1.26	y	0.88	40:07	1.084	1.079	1.089	55.8518
	PCB-151	2.56e+07	1.25	y	0.81	40:46	1.101	1.097	1.107	53.7130
	PCB-135	2.36e+07	1.22	y	0.78	41:00	1.108	1.101	1.113	51.4481
	PCB-144	3.13e+07	1.24	y	0.82	41:06	1.110	1.105	1.116	64.7442
	PCB-147	2.66e+07	1.26	y	0.83	41:14	1.114	1.011	1.120	54.4493
	PCB-139/149	5.59e+07	1.28	y	0.84	41:30	1.121	1.115	1.127	112.581
-	PCB-140	2.57e+07	1.26	y	0.79	41:42	1.127	1.120	1.132	55.6022
-	PCB-134/143	6.98e+07	1.23	y	0.93	42:08	0.976	0.970	0.980	103.754

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-133/142	6.91e+07	1.24	y	0.95	42:25	0.982	0.977	0.987	100.635
	PCB-131	3.35e+07	1.25	y	0.91	42:36	0.986	0.981	0.991	50.5432
	PCB-146/165	8.88e+07	1.23	y	1.16	42:47	0.991	0.986	0.996	105.760
	PCB-132/161	8.28e+07	1.23	y	1.11	43:03	0.997	0.992	1.002	102.433
	PCB-153	4.88e+07	1.26	y	1.18	43:13	1.001	0.995	1.005	57.0823
	PCB-168	5.16e+07	1.23	y	1.37	43:25	1.005	1.000	1.010	51.9582
	PCB-141	3.73e+07	1.23	y	0.97	43:58	1.001	0.996	1.005	54.3731
	PCB-137	3.93e+07	1.23	y	1.07	44:21	1.009	1.004	1.014	52.1870
	PCB-130	3.56e+07	1.25	y	0.85	44:27	1.012	1.007	1.017	59.8367
	PCB-138/163/164	1.39e+08	1.24	y	1.23	44:50	1.001	0.996	1.006	168.182
	PCB-158/160	1.00e+08	1.23	y	1.29	45:05	1.007	1.001	1.011	115.615
	PCB-129	3.32e+07	1.23	y	0.92	45:19	1.012	1.007	1.017	53.3329
	PCB-166	4.87e+07	1.22	y	1.12	45:46	0.993	0.988	0.998	53.7890
	PCB-159	5.04e+07	1.24	y	1.16	46:06	1.000	0.995	1.005	53.3406
	PCB-128/162	8.84e+07	1.25	y	1.02	46:23	1.007	1.002	1.012	106.819
	PCB-167	4.99e+07	1.24	y	1.06	46:48	1.001	0.995	1.005	54.7499
	PCB-156	5.12e+07	1.23	y	1.18	48:06	1.000	0.995	1.005	53.0288
	PCB-157	4.95e+07	1.25	y	1.08	48:22	1.000	0.995	1.005	54.2087
	PCB-169	4.74e+07	1.23	y	1.11	50:24	1.000	0.995	1.005	53.8080
	PCB-188	4.44e+07	1.06	y	1.40	42:51	1.000	0.995	1.005	53.9788
	PCB-184	4.02e+07	1.06	y	1.24	43:18	1.011	1.006	1.016	55.4766
	PCB-179	4.26e+07	1.06	y	1.30	44:06	1.030	1.024	1.034	55.7544
	PCB-176	4.46e+07	1.05	y	1.36	44:33	1.040	1.035	1.045	55.9293
	PCB-186	4.14e+07	1.06	y	1.28	45:10	1.054	1.049	1.059	55.5085
	PCB-178	3.10e+07	1.06	y	0.94	45:39	1.066	1.061	1.071	56.5069
	PCB-175	3.28e+07	1.04	y	0.97	46:00	1.074	1.069	1.079	57.8091
	PCB-182/187	6.90e+07	1.06	y	1.01	46:11	1.078	1.073	1.083	116.148
	PCB-183	3.42e+07	1.04	y	1.08	46:30	1.086	1.080	1.090	53.9458
	PCB-185	3.17e+07	1.07	y	1.34	47:11	0.956	0.951	0.961	56.6409
	PCB-174	2.95e+07	1.05	y	1.34	47:32	0.963	0.958	0.968	52.9526
	PCB-181	3.48e+07	1.06	y	1.36	47:38	0.965	0.961	0.971	61.3739
	PCB-177	2.92e+07	1.04	y	1.24	47:49	0.969	0.964	0.974	56.3423
	PCB-171	3.01e+07	1.08	y	1.31	48:07	0.975	0.970	0.980	54.9029
	PCB-173	2.64e+07	1.06	y	1.16	48:33	0.984	0.979	0.989	54.6055
	PCB-172	2.80e+07	1.06	y	1.22	48:59	0.993	0.988	0.998	54.9887
	PCB-192	3.65e+07	1.06	y	1.53	49:10	0.996	0.991	1.001	57.3378
	PCB-180	3.17e+07	1.05	y	1.43	49:21	1.000	0.995	1.005	53.1713

RL: MONO, TRI - DECA: _____

Integrations by Analyst: DMS

Date: 10/27/14

Client ID: OPR Filename: 141021E2 S:4 Acq:21-OCT-14 23:23:06 ConCal: ST141021E2-1
Lab ID: B4J0110-BS1 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-193	3.86e+07	1.06	y	1.65	49:33	1.004	0.999	1.009	55.9215
	PCB-191	3.96e+07	1.06	y	1.67	49:47	1.009	1.004	1.014	56.8699
	PCB-170	2.67e+07	1.04	y	1.50	50:45	1.001	0.995	1.005	54.1037
	PCB-190	3.87e+07	1.03	y	2.02	50:55	1.004	0.998	1.008	58.3449
	PCB-189	4.08e+07	1.05	y	1.54	52:11	1.000	0.995	1.005	56.0783
	PCB-202	2.75e+07	0.92	y	1.04	48:19	1.001	0.995	1.005	52.7019
	PCB-201	2.95e+07	0.89	y	1.10	48:48	1.011	1.006	1.016	53.2528
	PCB-204	2.74e+07	0.90	y	0.99	48:57	1.014	1.009	1.019	54.9514
	PCB-197	2.90e+07	0.91	y	1.07	49:14	1.020	1.015	1.025	53.9106
	PCB-200	3.20e+07	0.91	y	1.02	50:03	1.037	1.032	1.044	62.6399
	PCB-198	1.71e+07	0.88	y	0.74	51:17	1.062	1.058	1.068	45.7275
	PCB-199	2.14e+07	0.91	y	0.73	51:24	1.065	1.060	1.070	58.5021
-	PCB-196/203	4.12e+07	0.91	y	0.77	51:40	1.070	1.066	1.076	106.199
-	PCB-195	2.48e+07	1.00	y	1.20	52:48	0.983	0.979	0.989	56.5132
	PCB-194	2.36e+07	0.92	y	1.25	53:44	1.000	0.995	1.005	51.7736
	PCB-205	2.75e+07	0.93	y	1.41	54:01	1.006	1.001	1.011	53.2080
	PCB-208	2.53e+07	1.31	y	0.96	52:56	1.000	0.995	1.005	52.5988
	PCB-207	2.45e+07	1.31	y	0.92	53:16	1.007	1.001	1.011	53.3626
	PCB-206	1.36e+07	1.36	y	1.03	55:29	1.000	0.995	1.005	52.8595
	PCB-209	1.42e+07	1.22	y	1.18	56:44	1.000	0.995	1.005	54.4321

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	2.09e+08	2.89	y	16:31	1.22	137.197	
Total Di-PCB	1.53e+09	1.61	y	20:20	1.21	1279.90	
Total Tri-PCB	4.83e+08	1.04	y	24:21	1.16	415.517	
Total Tri-PCB	1.10e+09	1.03	y	27:58	1.35	825.181	Sum:1240.70
Total Tetra-PCB	2.32e+09	0.76	y	28:02	1.17	2102.99	
Total Penta-PCB	1.65e+09	1.58	y	32:40	1.21	2132.30	
Total Penta-PCB	2.98e+08	1.62	y	42:12	1.26	292.732	Sum:2425.03
Total Hexa-PCB	4.19e+08	1.26	y	37:01	0.92	778.419	
Total Hexa-PCB	1.22e+09	1.23	y	42:08	1.08	1512.08	Sum:2290.50
Total Hepta-PCB	8.47e+08	1.06	y	42:51	1.27	1352.57	
Total Octa-PCB	2.25e+08	0.92	y	48:19	0.92	487.885	
Total Octa-PCB	7.58e+07	1.00	y	52:48	1.29	161.495	Sum:649.380
Total Nona-PCB	6.42e+07	1.31	y	52:56	0.96	160.879	
Total Deca-PCB	1.42e+07	1.22	y	56:44	1.18	54.4321	

Total PCB Conc:11653.7807960

RL: MONO, TRI - DECA: ~~_____~~ _____

Integrations by Analyst: DMS

Date: 10/27/14

Client ID: OPR Filename: 141021E2 S:4 Acq:21-OCT-14 23:23:06 ConCal: ST141021E2-1
Lab ID: B4J0110-BS1 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.20e+08	3.23 y	0.89	16:30	0.634	0.622	0.628	82.9	82.9
13C-PCB-3	1.27e+08	3.28 y	0.93	19:00	0.730	0.721	0.729	84.7	84.7
13C-PCB-4	5.91e+07	1.56 y	0.55	20:17	0.780	0.772	0.780	66.4	66.4
13C-PCB-9	9.32e+07	1.58 y	0.83	22:00	0.846	0.840	0.848	69.5	69.5
13C-PCB-11	1.16e+08	1.56 y	0.94	25:18	0.972	0.968	0.978	76.1	76.1
13C-PCB-19	7.11e+07	1.06 y	0.53	24:20	0.935	0.929	0.939	82.2	82.2
13C-PCB-28	9.75e+07	1.06 y	0.89	29:06	1.003	0.999	1.009	72.9	72.9
13C-PCB-32	1.14e+08	1.08 y	0.81	27:11	1.045	1.041	1.051	86.5	86.5
13C-PCB-37	1.04e+08	1.06 y	0.83	32:57	1.136	1.131	1.143	83.4	83.4
13C-PCB-47	8.16e+07	0.80 y	0.74	32:00	0.871	0.867	0.875	75.4	75.4
13C-PCB-52	7.88e+07	0.78 y	0.71	31:29	0.857	0.853	0.861	76.5	76.5
13C-PCB-54	8.83e+07	0.81 y	0.85	28:01	0.762	0.758	0.766	71.4	71.4
13C-PCB-70	1.11e+08	0.79 y	0.94	35:29	0.966	0.961	0.971	81.1	81.1
13C-PCB-77	1.12e+08	0.79 y	0.89	39:37	1.078	1.073	1.083	86.3	86.3
13C-PCB-80	1.19e+08	0.81 y	0.96	35:54	0.977	0.972	0.982	85.1	85.1
13C-PCB-81	1.05e+08	0.78 y	0.84	39:01	1.062	1.057	1.067	86.0	86.0
13C-PCB-95	5.45e+07	1.62 y	0.74	35:48	0.914	0.908	0.918	78.5	78.5
13C-PCB-97	5.32e+07	1.62 y	0.69	38:47	0.990	0.984	0.994	82.7	82.7
13C-PCB-101	6.05e+07	1.62 y	0.79	37:28	0.956	0.951	0.961	82.5	82.5
13C-PCB-104	7.00e+07	1.62 y	1.00	32:39	0.833	0.829	0.837	75.3	75.3
13C-PCB-105	8.10e+07	1.61 y	1.24	43:03	0.928	0.924	0.934	88.4	88.4
13C-PCB-114	7.75e+07	1.61 y	1.21	42:11	0.910	0.905	0.915	86.8	86.8
13C-PCB-118	7.81e+07	1.69 y	0.98	41:31	1.060	1.054	1.064	85.0	85.0
13C-PCB-123	7.44e+07	1.65 y	0.95	41:20	1.055	1.049	1.059	83.9	83.9
13C-PCB-126	7.91e+07	1.58 y	1.16	45:18	0.977	0.972	0.982	92.0	92.0
13C-PCB-127	9.04e+07	1.60 y	1.34	43:23	0.936	0.931	0.941	91.0	91.0
13C-PCB-138	6.74e+07	1.27 y	1.04	44:47	0.966	0.961	0.971	87.3	87.3
13C-PCB-141	7.03e+07	1.31 y	1.07	43:56	0.948	0.943	0.953	88.7	88.7
13C-PCB-153	7.26e+07	1.25 y	1.11	43:11	0.931	0.927	0.937	88.2	88.2
13C-PCB-155	5.89e+07	1.29 y	0.83	37:01	0.945	0.939	0.949	75.8	75.8
13C-PCB-156	8.17e+07	1.28 y	1.24	48:05	1.037	1.032	1.042	88.7	88.7
13C-PCB-157	8.43e+07	1.28 y	1.31	48:21	1.043	1.037	1.047	86.9	86.9
13C-PCB-159	8.12e+07	1.26 y	1.20	46:05	0.994	0.989	0.999	91.4	91.4
13C-PCB-167	8.58e+07	1.28 y	1.32	46:46	1.009	1.004	1.014	87.8	87.8
13C-PCB-169	7.94e+07	1.28 y	1.22	50:24	1.087	1.082	1.092	88.4	88.4
13C-PCB-170	3.29e+07	0.46 y	0.54	50:43	1.094	1.089	1.101	83.1	83.1
13C-PCB-180	4.17e+07	0.46 y	0.67	49:21	1.064	1.059	1.069	83.6	83.6
13C-PCB-188	5.85e+07	0.46 y	0.94	42:50	0.924	0.919	0.929	84.5	84.5
13C-PCB-189	4.72e+07	0.46 y	0.72	52:10	1.125	1.120	1.132	89.2	89.2
13C-PCB-194	3.66e+07	0.89 y	0.81	53:43	0.994	0.990	1.000	86.1	86.1
13C-PCB-202	5.02e+07	0.92 y	0.83	48:17	1.041	1.036	1.046	81.5	81.5
13C-PCB-206	2.49e+07	0.81 y	0.66	55:28	1.027	1.021	1.031	72.3	72.3
13C-PCB-208	5.01e+07	0.77 y	1.12	52:55	0.980	0.976	0.986	85.1	85.1
13C-PCB-209	2.22e+07	1.21 y	0.61	56:43	1.050	1.044	1.054	69.2	69.2

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.34e+08	0.79 y	1.01	37:47	1.028	1.023	1.033	91.8	91.8
13C-PCB-178	4.20e+07	0.46 y	0.63	45:38	0.984	0.979	0.989	90.0	90.0

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.34e+08	0.79 y	1.20	37:47	0.968	0.963	0.973	107	107
13C-PCB-178	4.20e+07	0.46 y	0.94	45:38	0.925	0.920	0.930	108	108

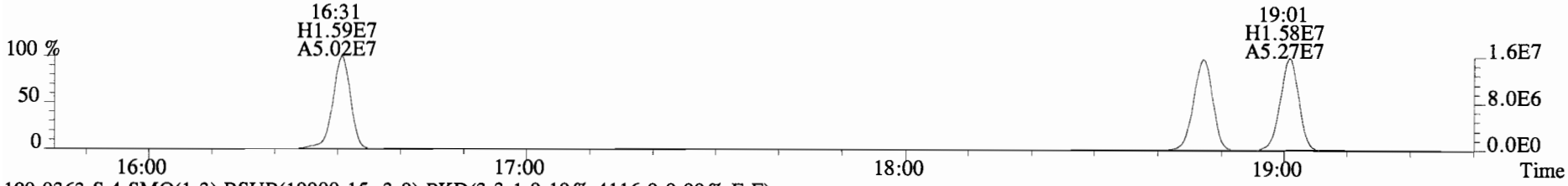
RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	1.63e+08	1.57	y	1.00	26:01	100
13C-PCB-31	1.51e+08	1.05	y	1.00	29:00	100
13C-PCB-60	1.45e+08	0.79	y	1.00	36:45	100
13C-PCB-111	9.34e+07	1.61	y	1.00	39:11	100
13C-PCB-128	7.40e+07	1.29	y	1.00	46:22	100
13C-PCB-205	5.24e+07	0.89	y	1.00	54:01	100

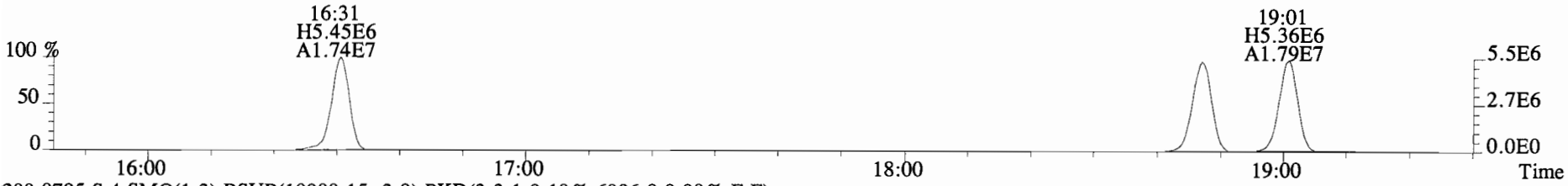
Analyst: DMS

Date: 10/27/14

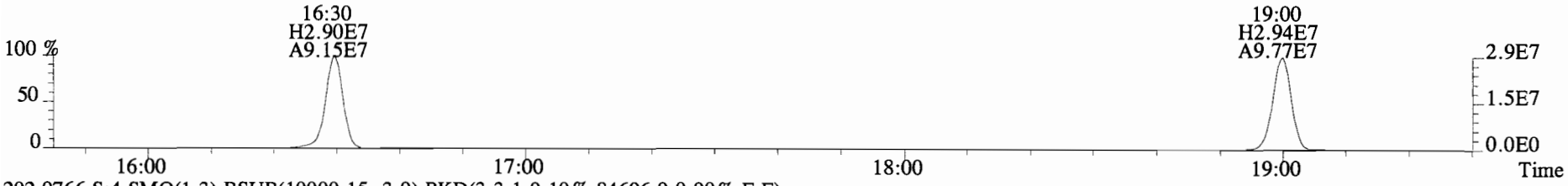
File:141021E2 #1-728 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
188.0393 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3592.0,0.00%,F,F)



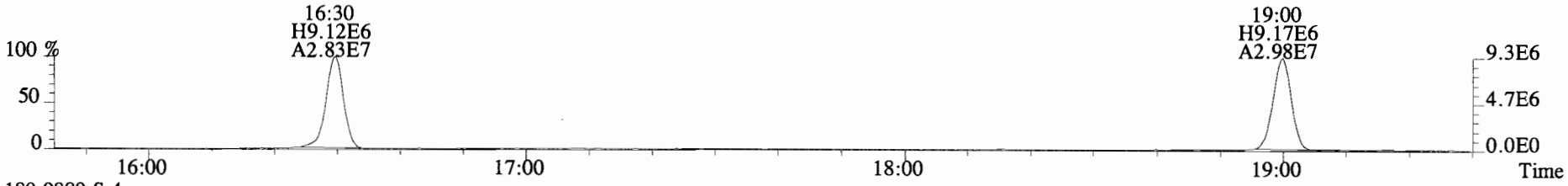
190.0363 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4116.0,0.00%,F,F)



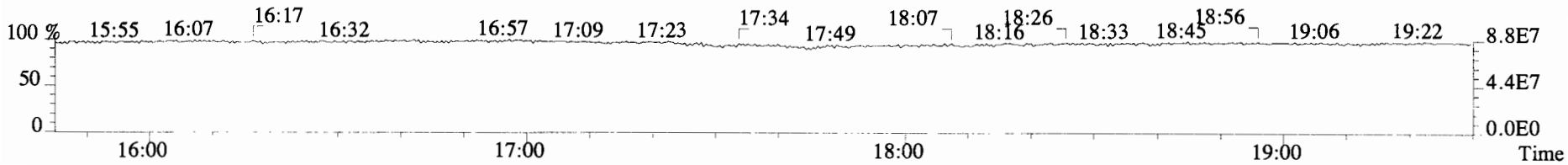
200.0795 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6096.0,0.00%,F,F)



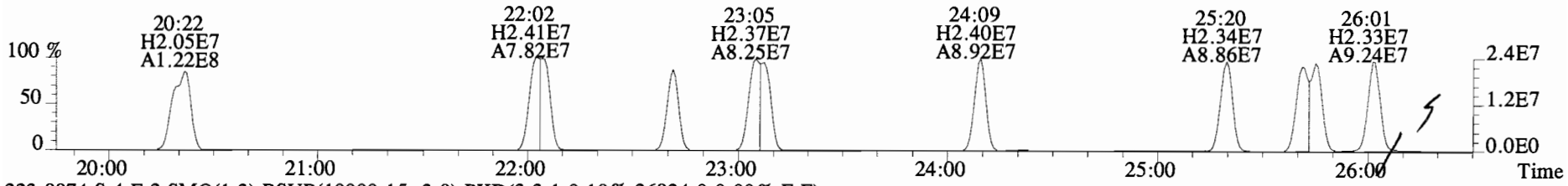
202.0766 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,84696.0,0.00%,F,F)



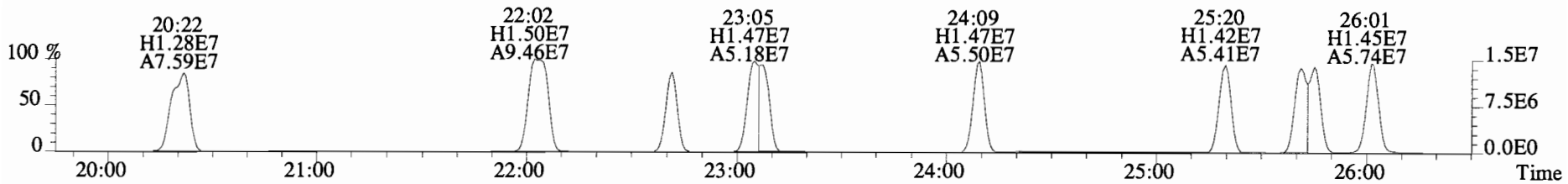
180.9880 S:4



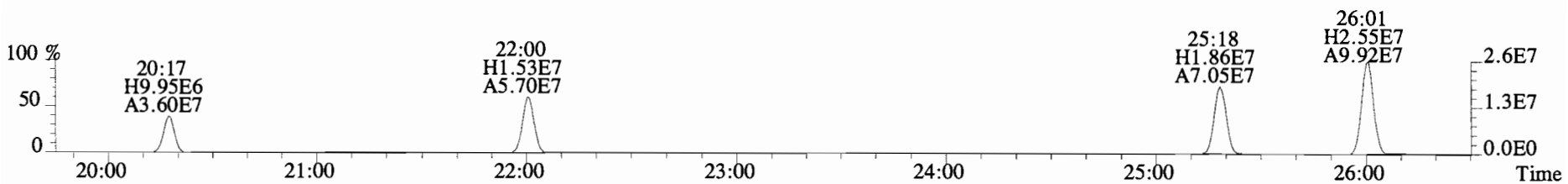
File:141021E2 #1-758 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7368.0,0.00%,F,F)



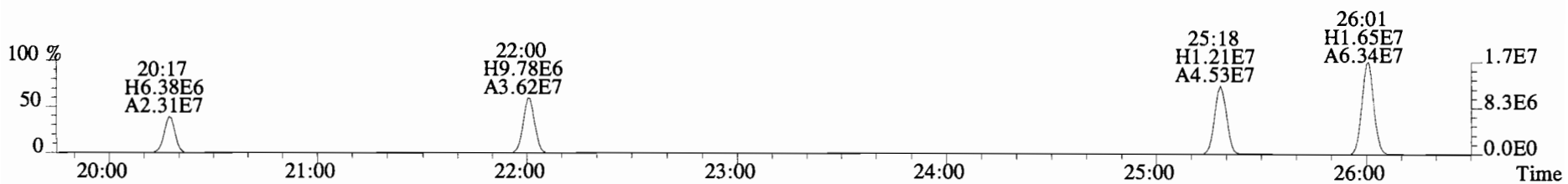
223.9974 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26924.0,0.00%,F,F)



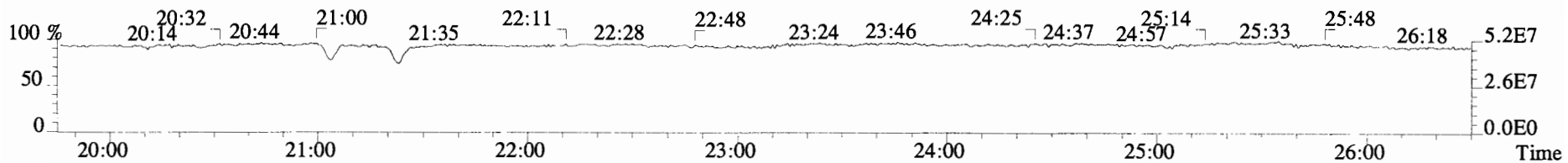
234.0406 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8172.0,0.00%,F,F)



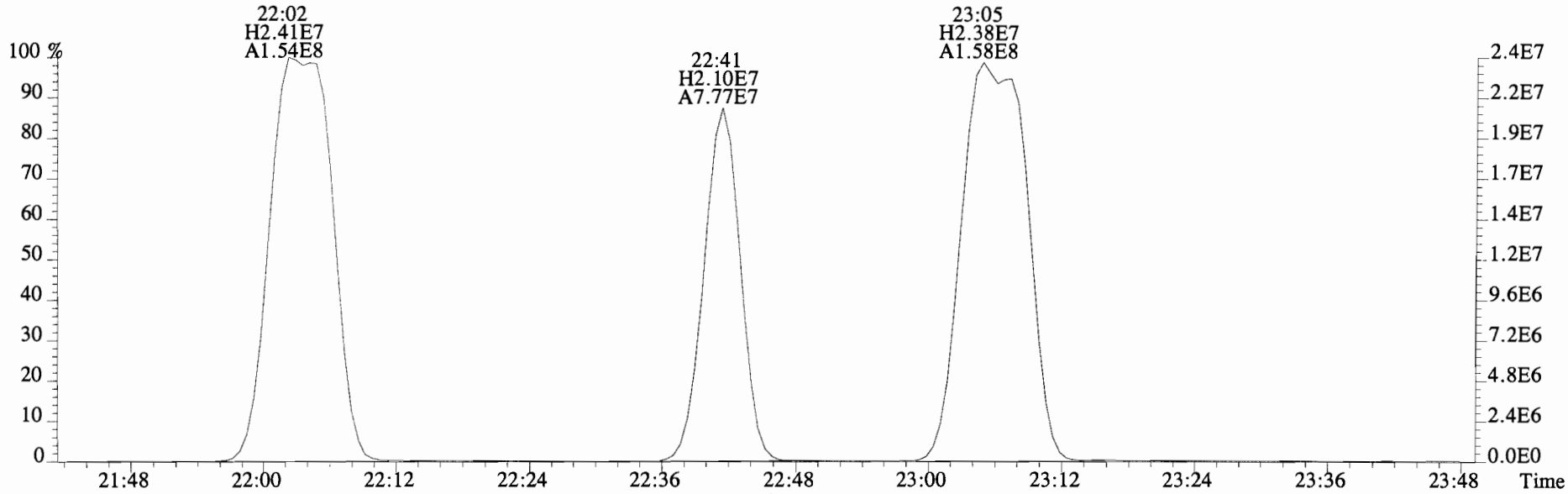
236.0376 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6736.0,0.00%,F,F)



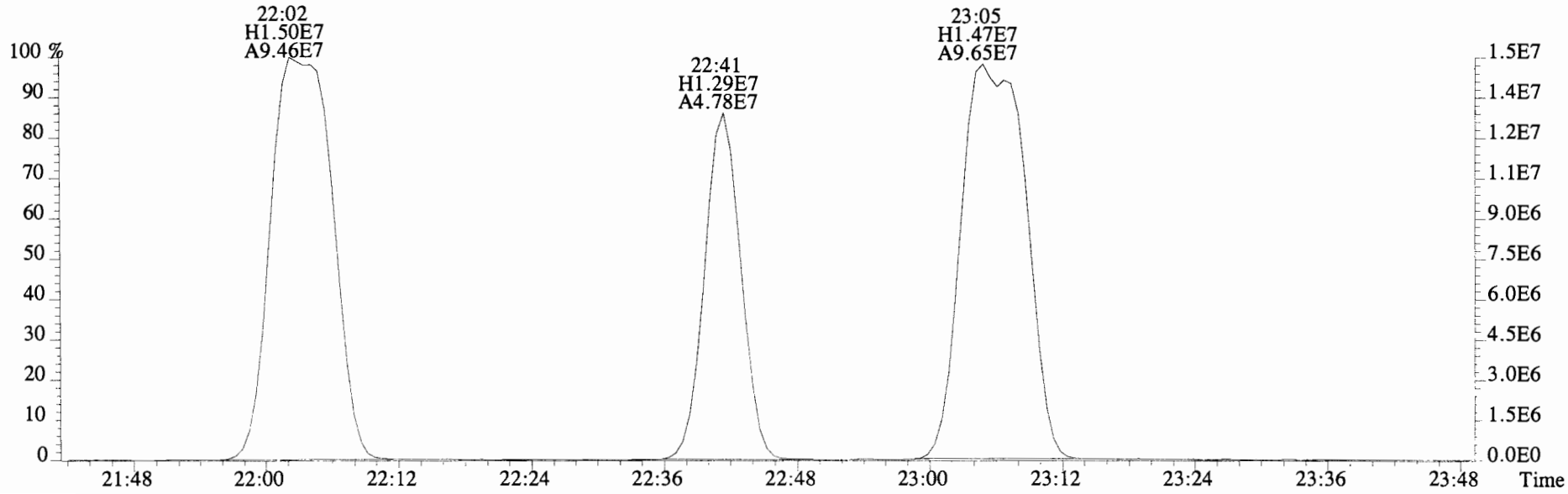
230.9856 S:4 F:2



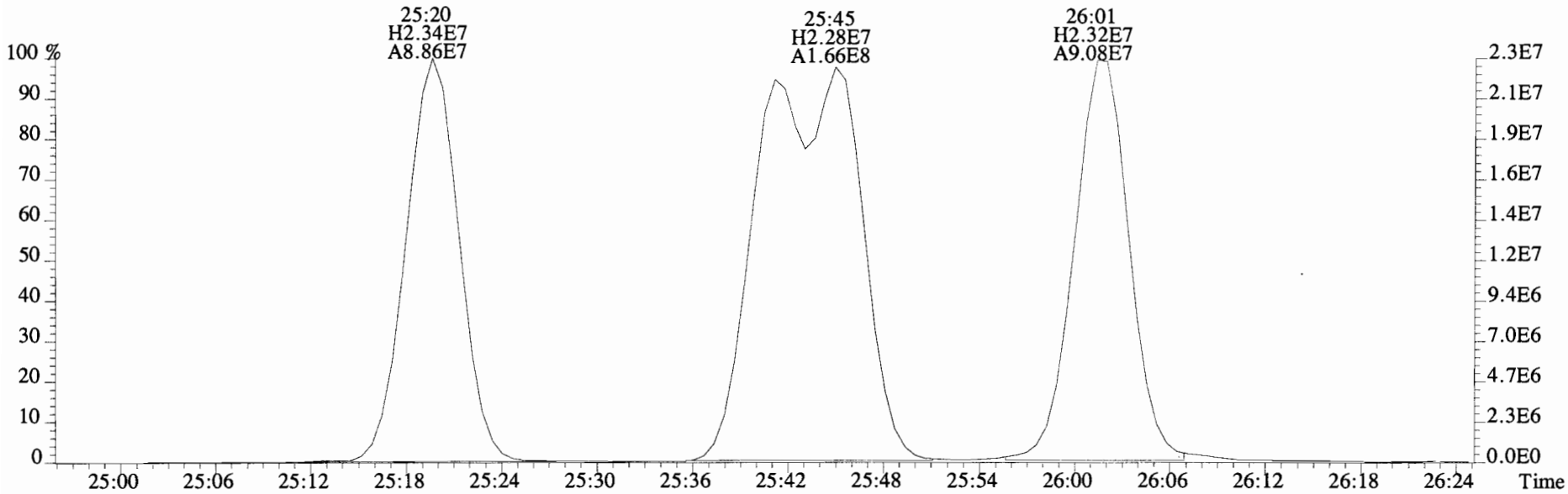
File:141021E2 #1-758 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7368.0,0.00%,F,F)



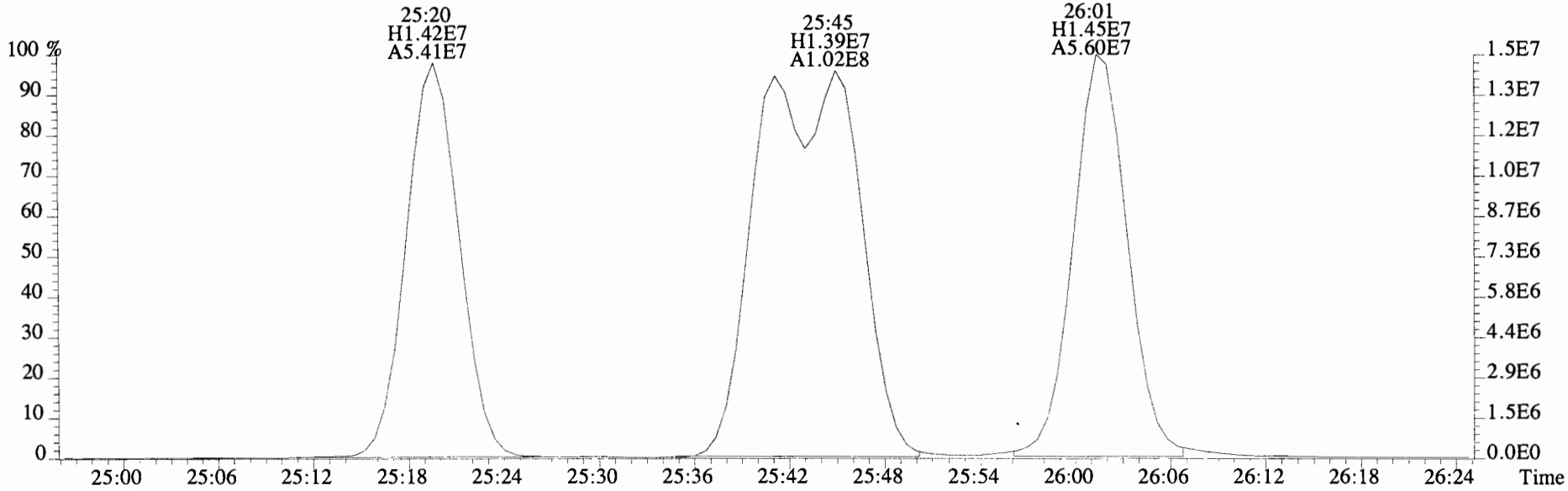
223.9974 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26924.0,0.00%,F,F)



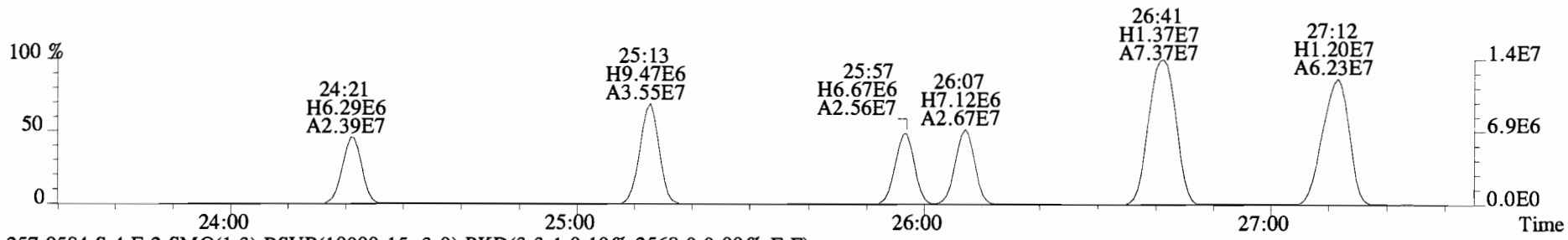
File:141021E2 #1-758 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7368.0,0.00%,F,F)



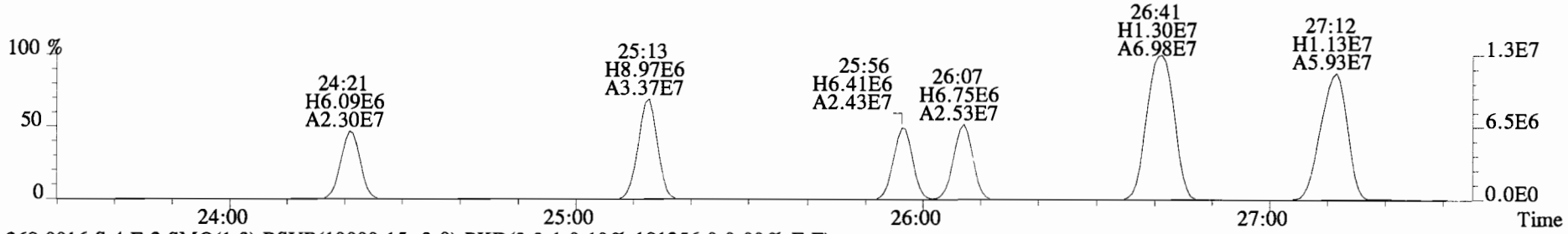
223.9974 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26924.0,0.00%,F,F)



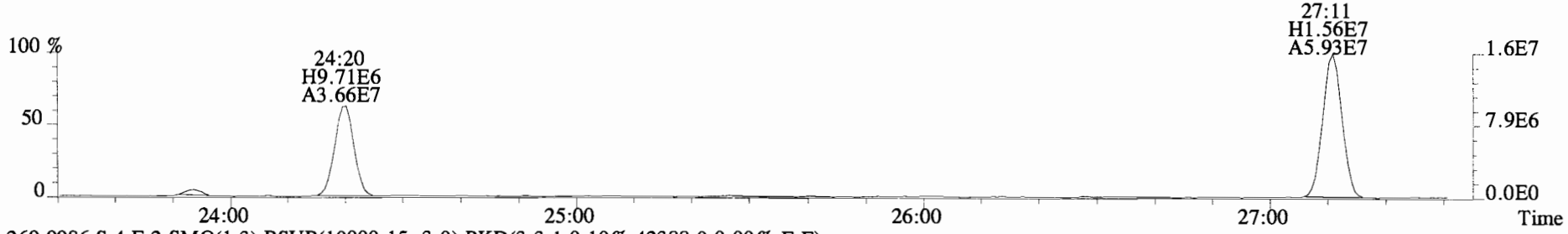
File:141021E2 #1-758 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
255.9613 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5880.0,0.00%,F,F)



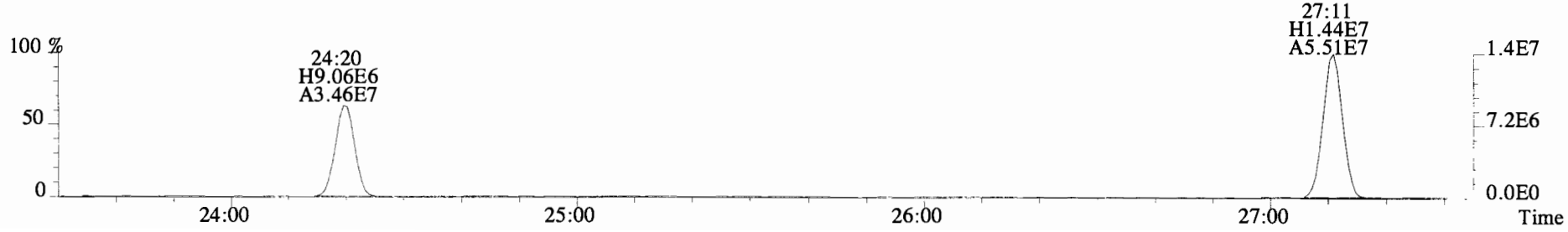
257.9584 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2568.0,0.00%,F,F)



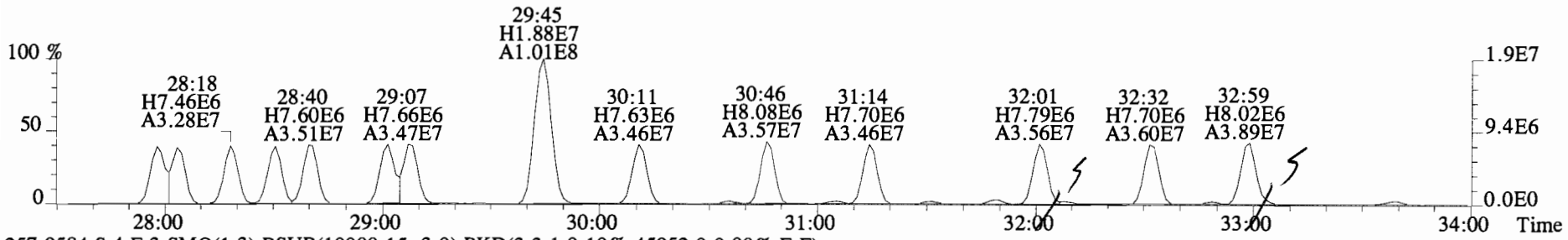
268.0016 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,181256.0,0.00%,F,F)



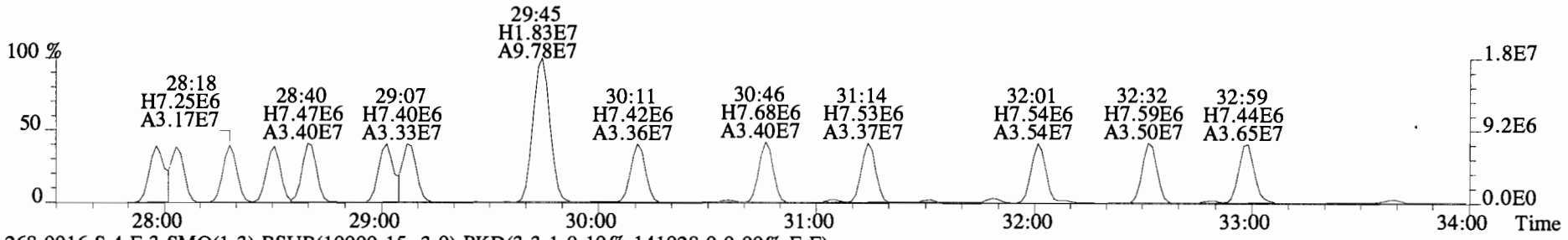
269.9986 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,42388.0,0.00%,F,F)



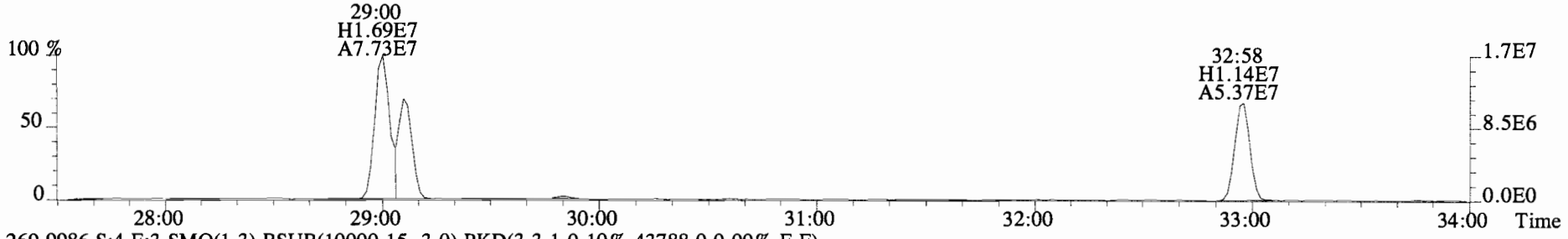
File:141021E2 #1-761 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,44236.0,0.00%,F,F)



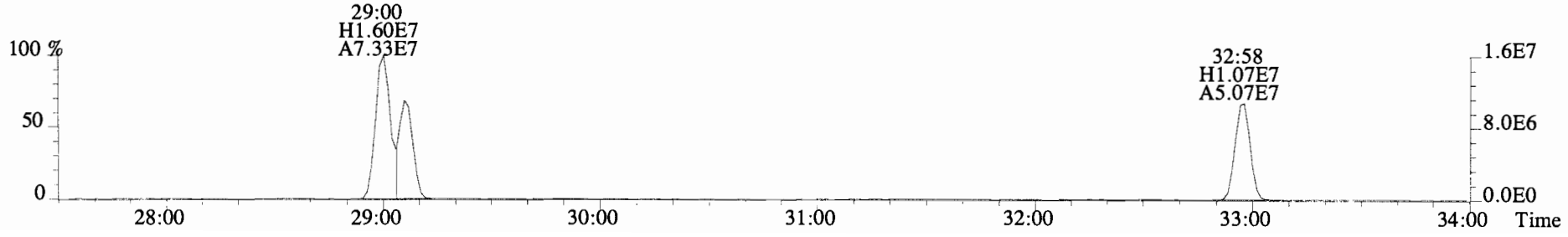
257.9584 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45952.0,0.00%,F,F)



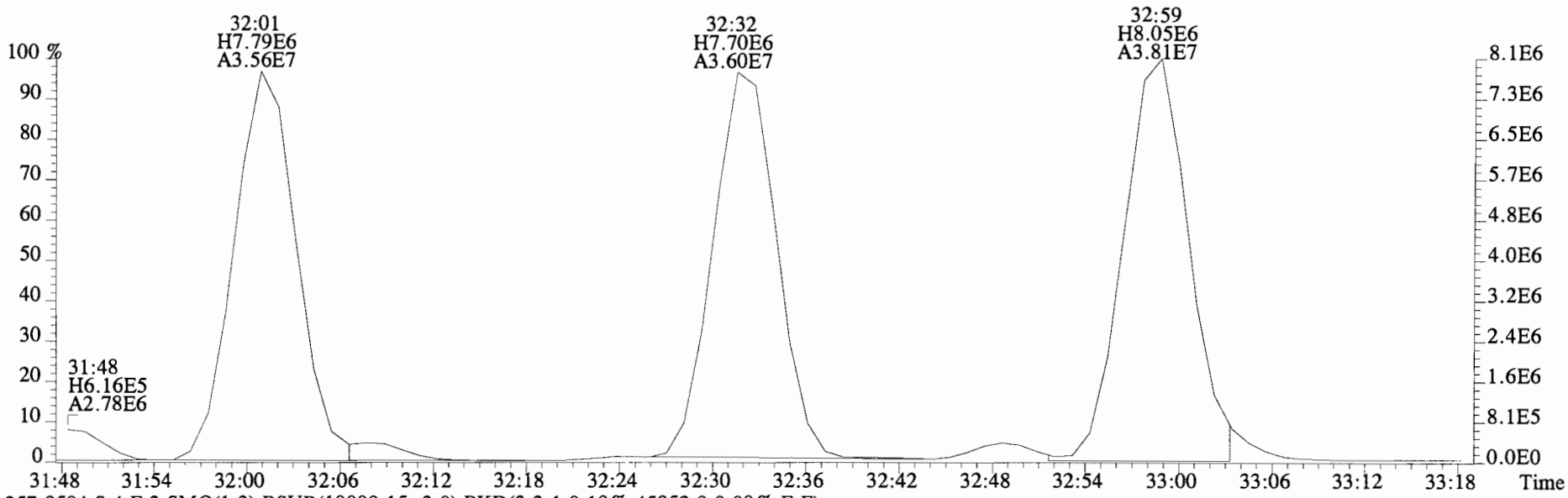
268.0016 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,141028.0,0.00%,F,F)



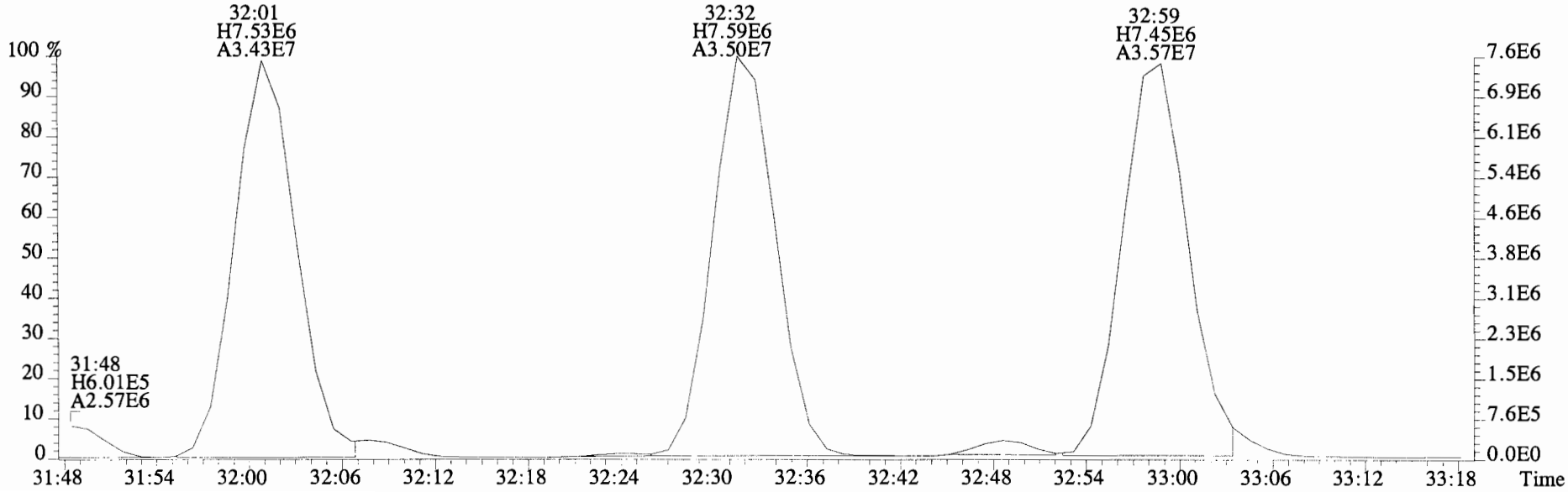
269.9986 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,43788.0,0.00%,F,F)



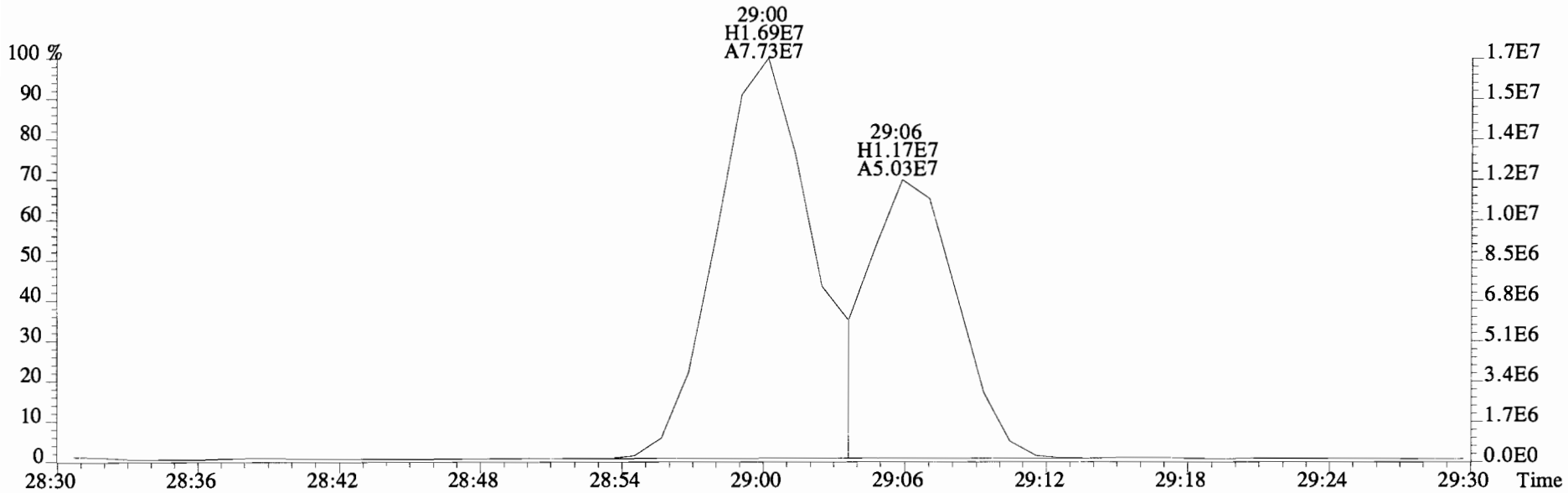
File:141021E2 #1-761 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,44236.0,0.00%,F,F)



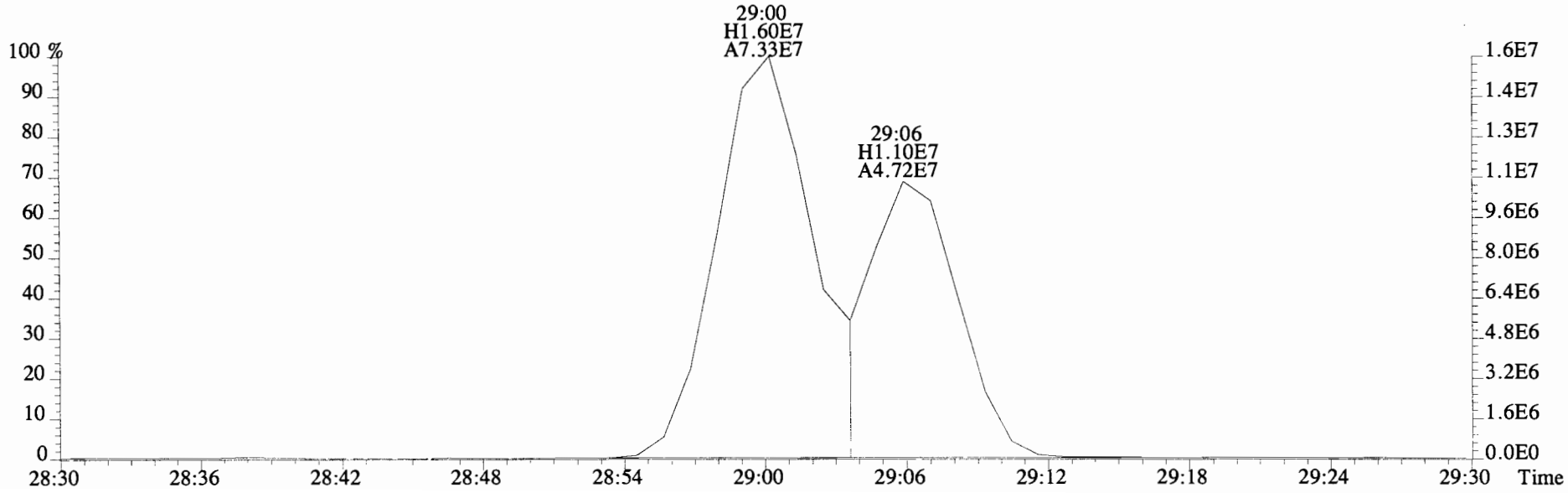
257.9584 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45952.0,0.00%,F,F)



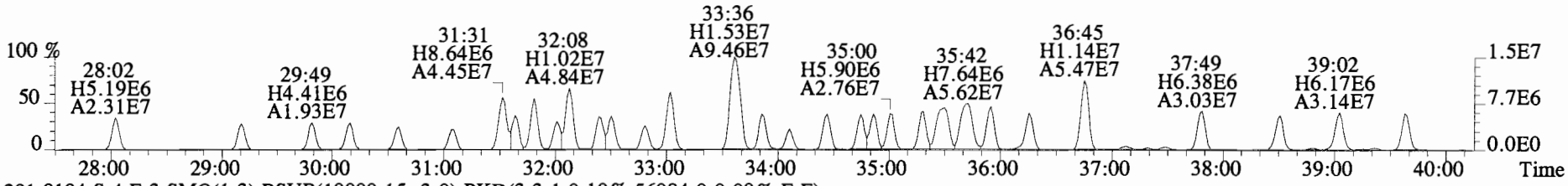
File:141021E2 #1-761 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
268.0016 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,141028.0,0.00%,F,F)



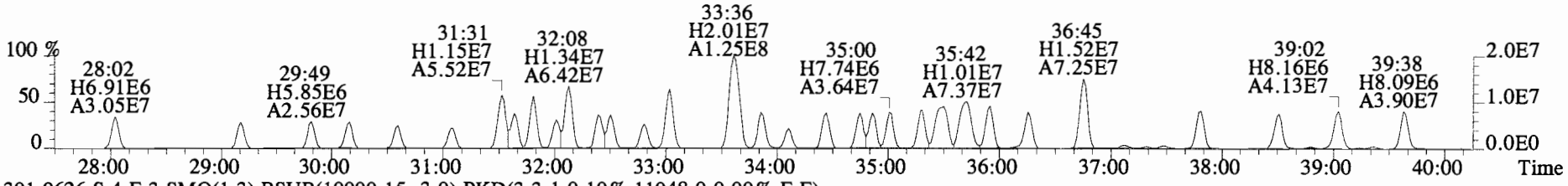
269.9986 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,43788.0,0.00%,F,F)



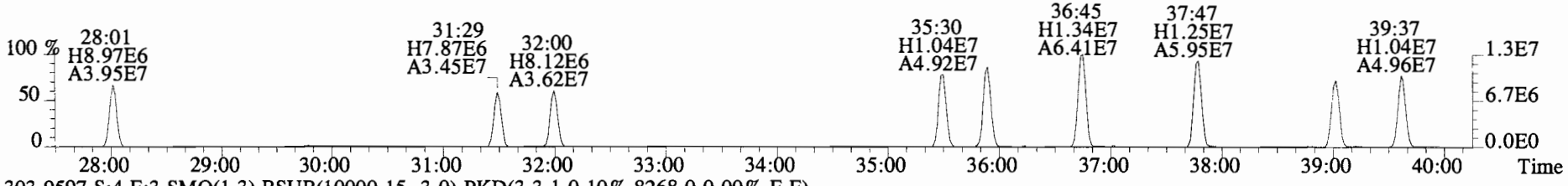
File:141021E2 #1-761 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,47228.0,0.00%,F,F)



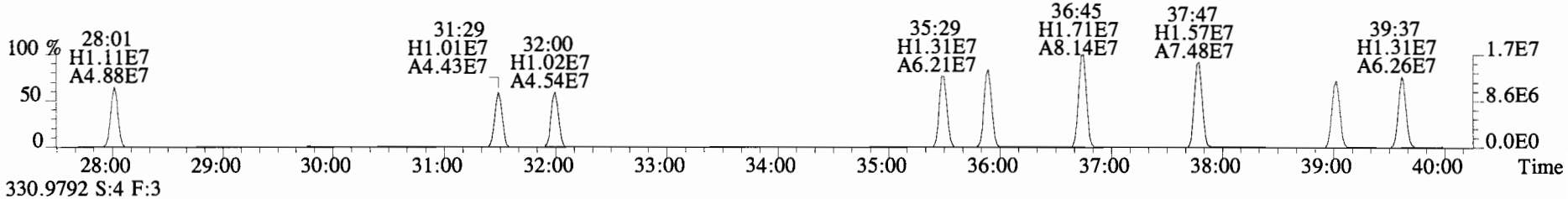
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,56084.0,0.00%,F,F)



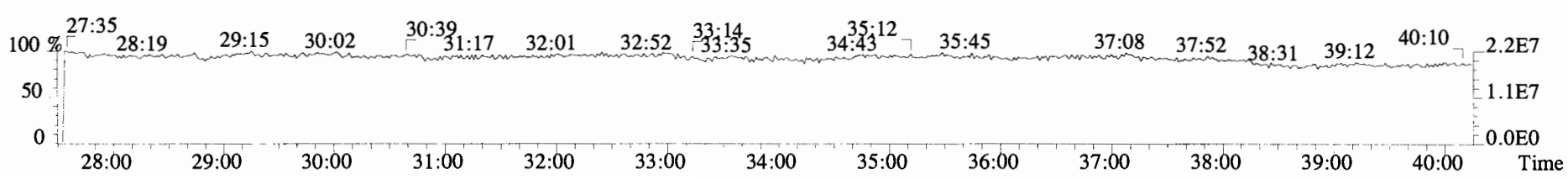
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11048.0,0.00%,F,F)



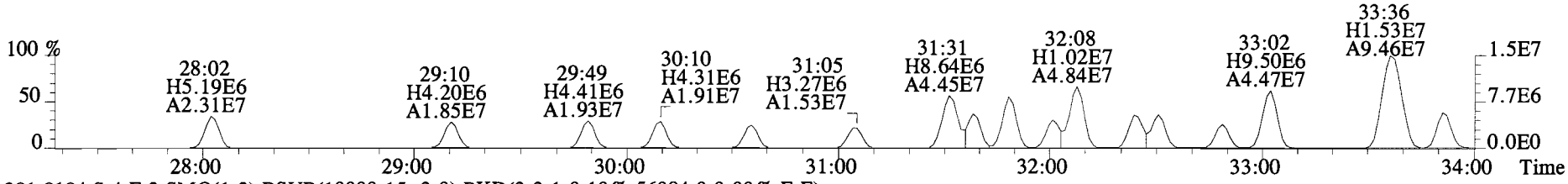
303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8268.0,0.00%,F,F)



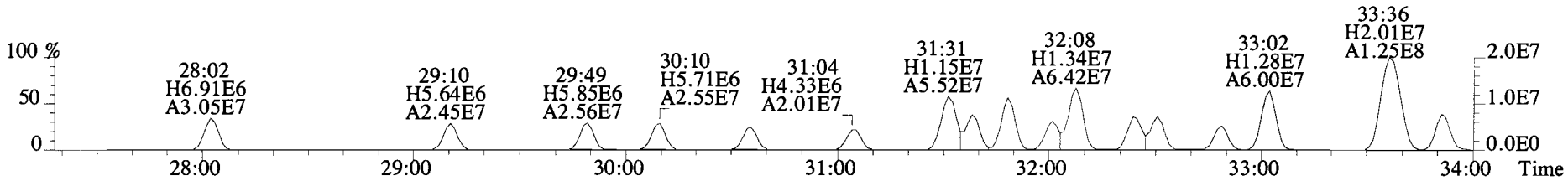
330.9792 S:4 F:3



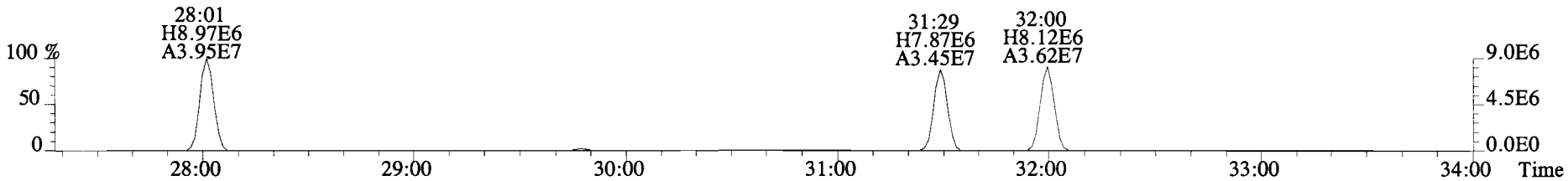
File:141021E2 #1-761 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,47228.0,0.00%,F,F)



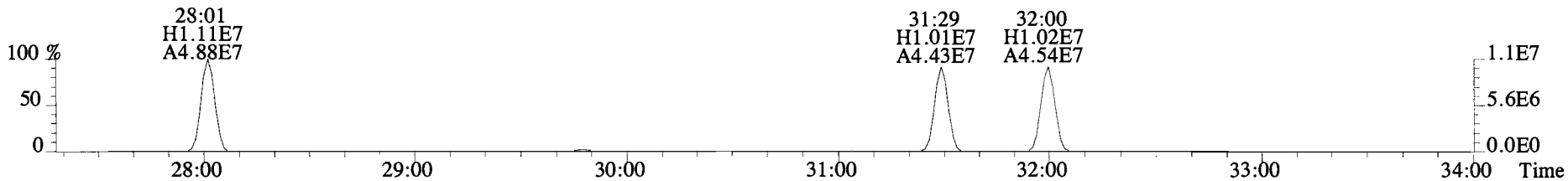
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,56084.0,0.00%,F,F)



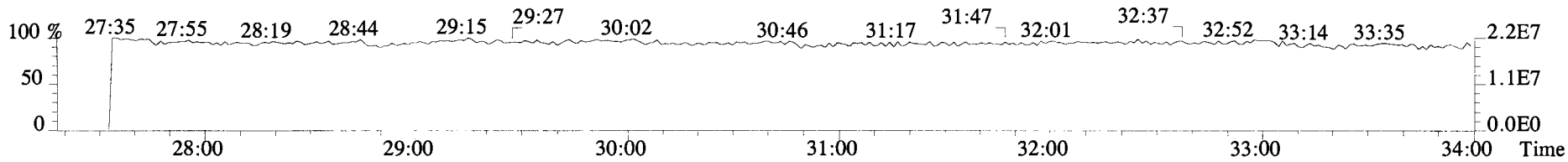
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11048.0,0.00%,F,F)



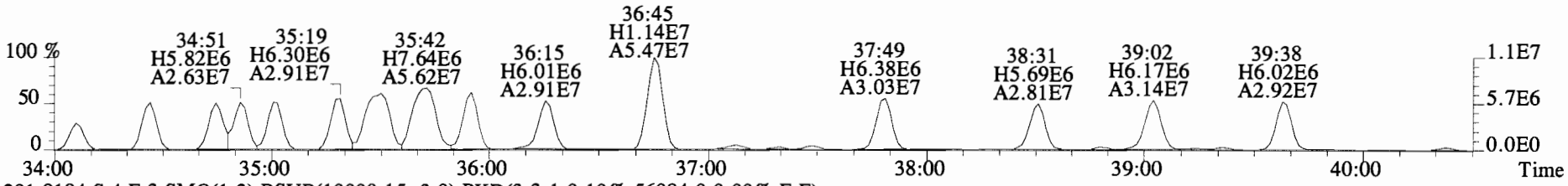
303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8268.0,0.00%,F,F)



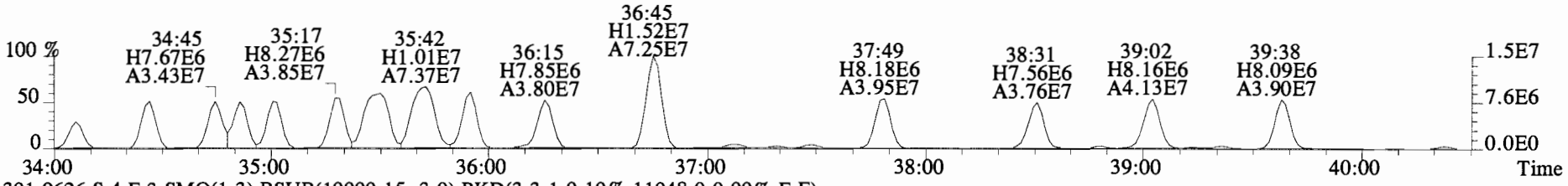
330.9792 S:4 F:3



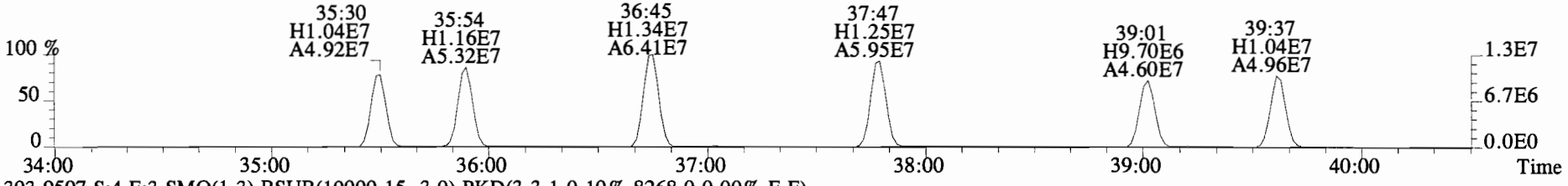
File:141021E2 #1-761 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,47228.0,0.00%,F,F)



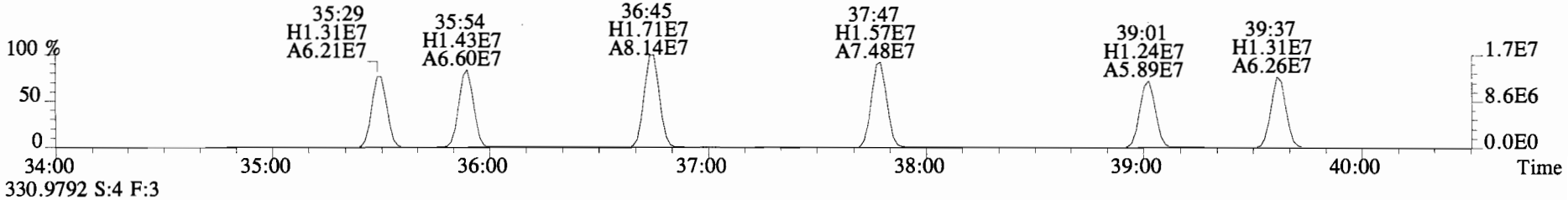
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,56084.0,0.00%,F,F)



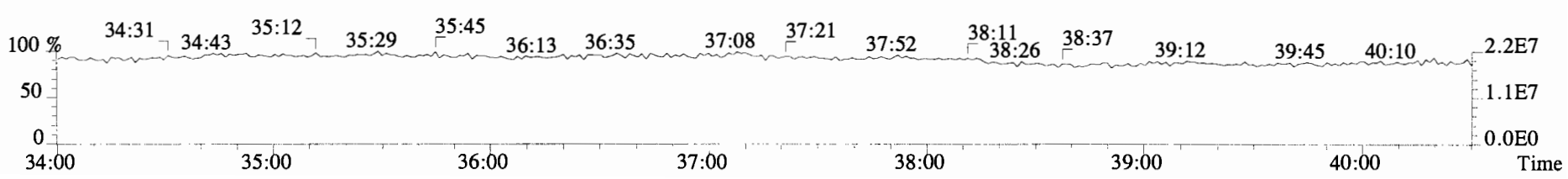
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11048.0,0.00%,F,F)



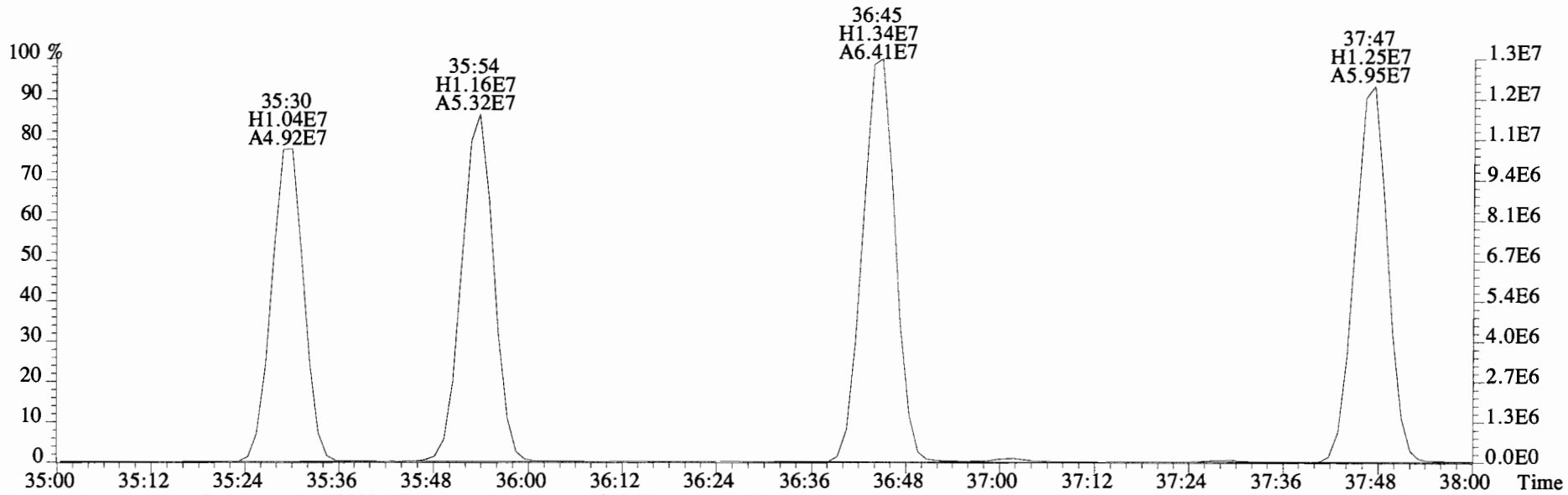
303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8268.0,0.00%,F,F)



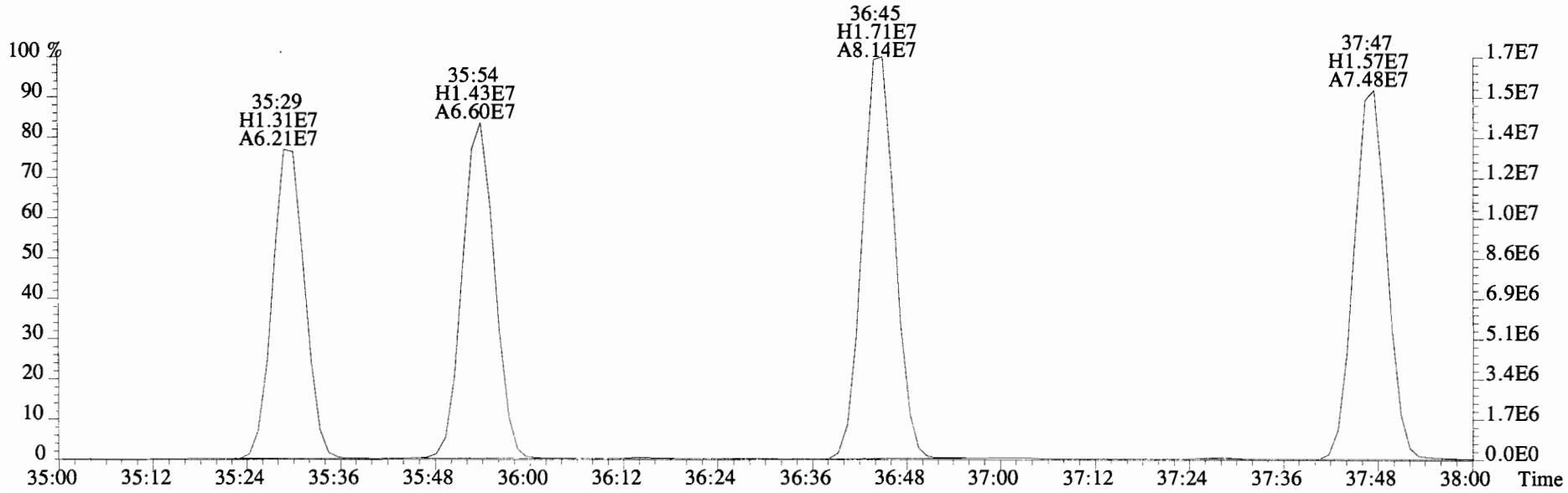
330.9792 S:4 F:3



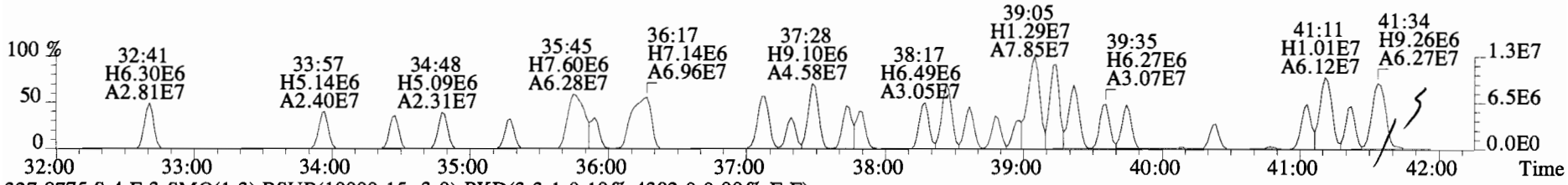
File:141021E2 #1-761 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11048.0,0.00%,F,F)



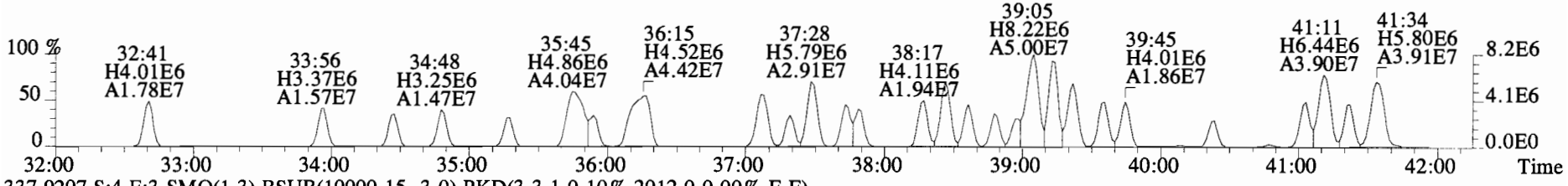
303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8268.0,0.00%,F,F)



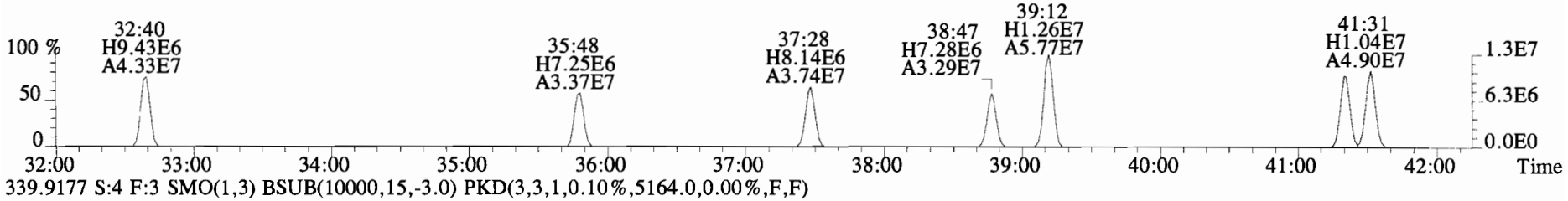
File:141021E2 #1-761 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1628.0,0.00%,F,F)



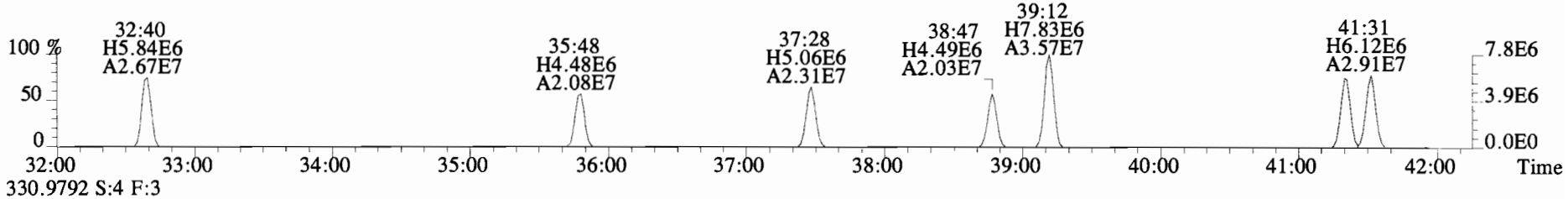
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4392.0,0.00%,F,F)



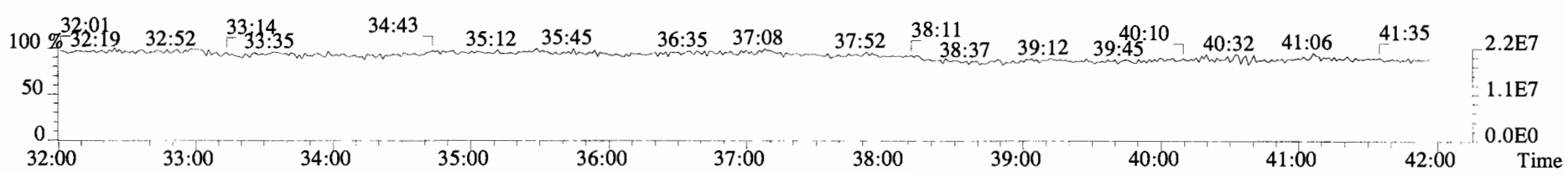
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2012.0,0.00%,F,F)



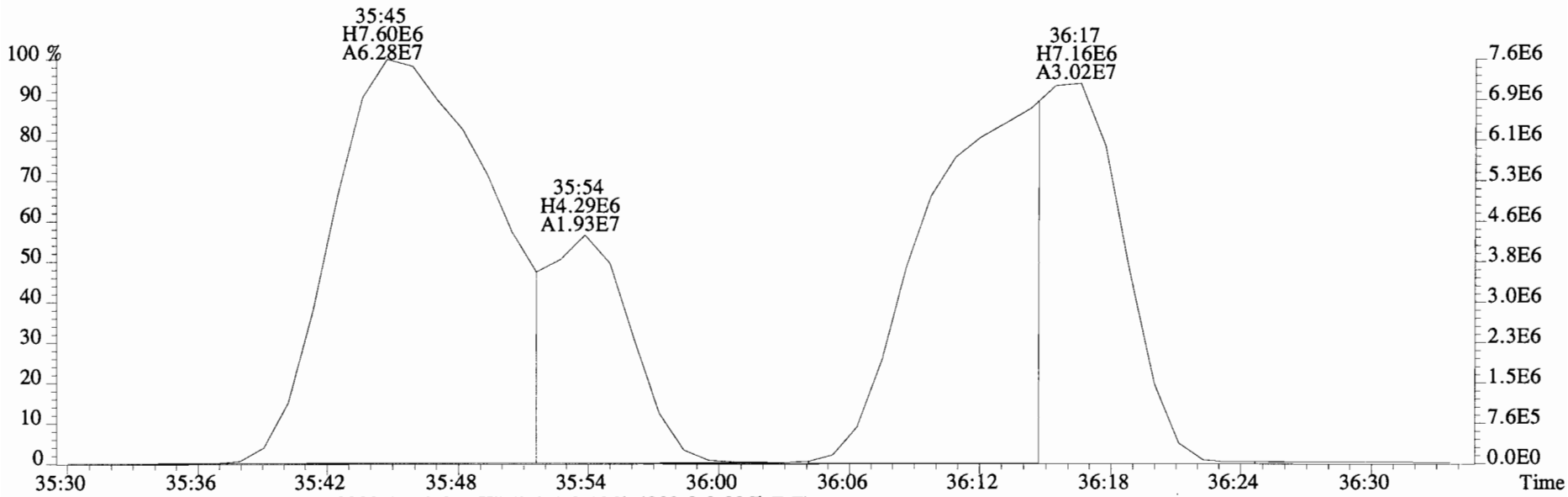
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5164.0,0.00%,F,F)



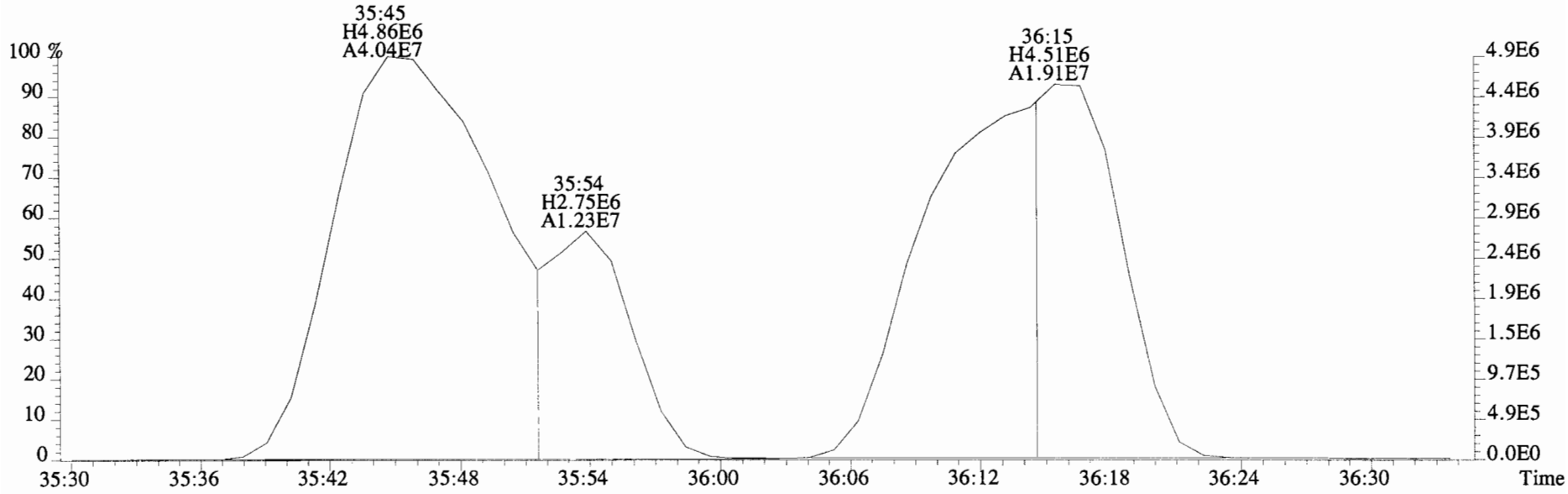
330.9792 S:4 F:3



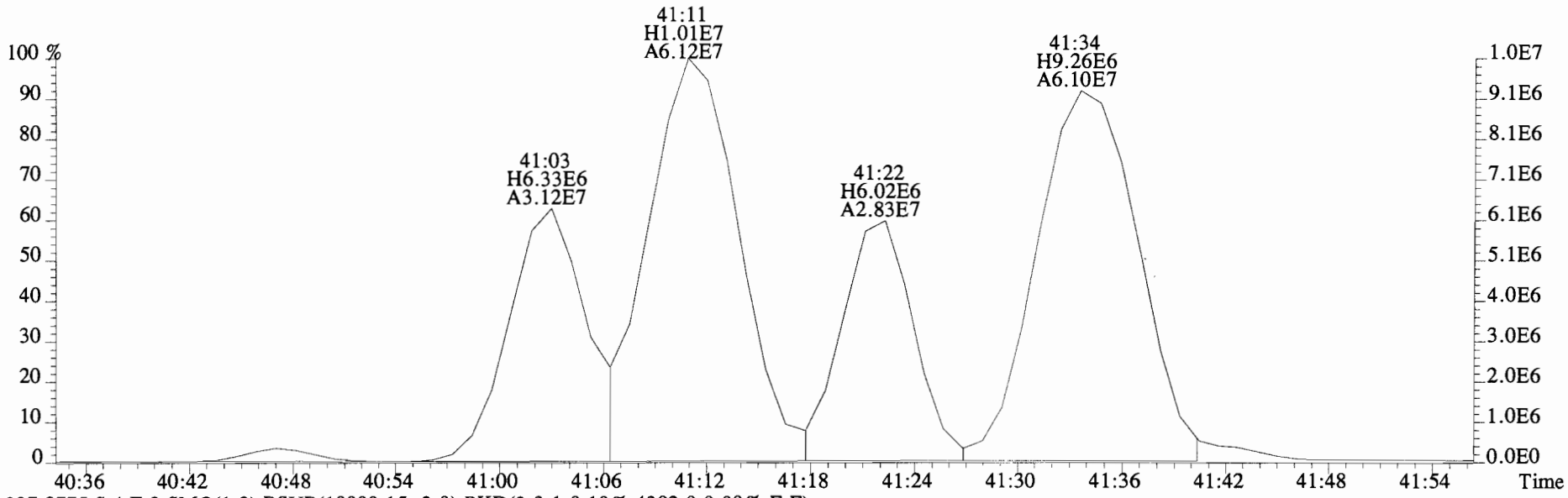
File:141021E2 #1-761 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1628.0,0.00%,F,F)



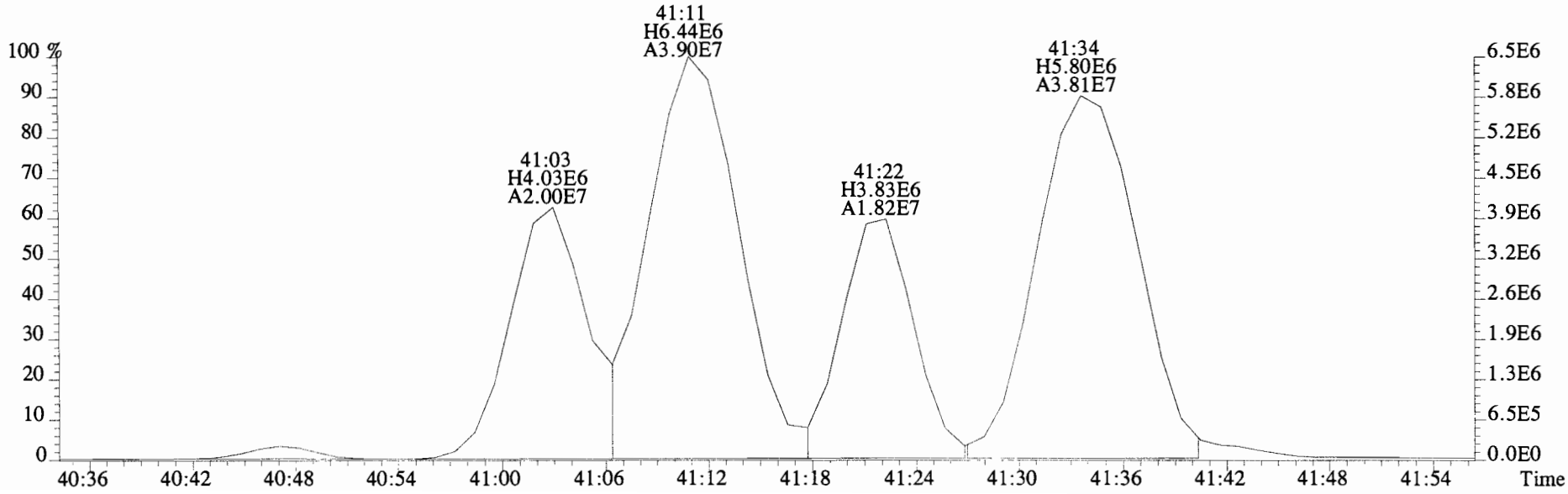
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4392.0,0.00%,F,F)



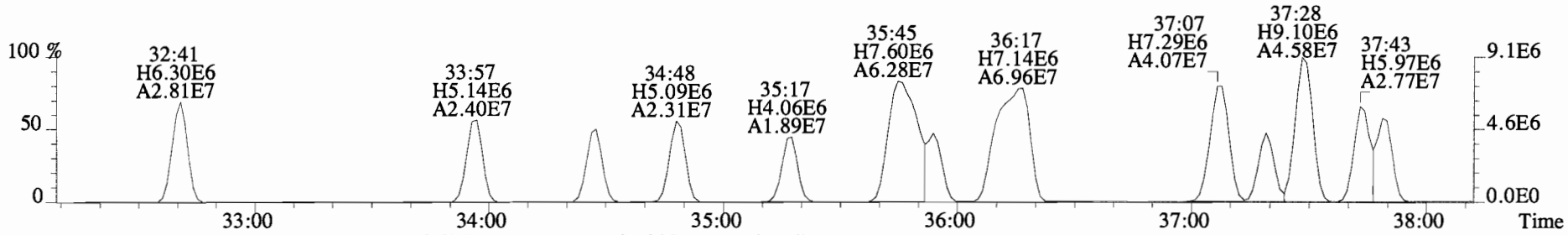
File:141021E2 #1-761 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1628.0,0.00%,F,F)



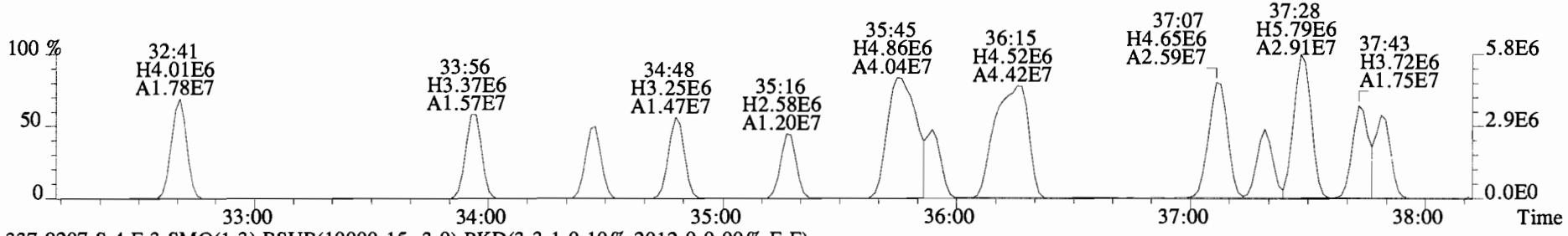
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4392.0,0.00%,F,F)



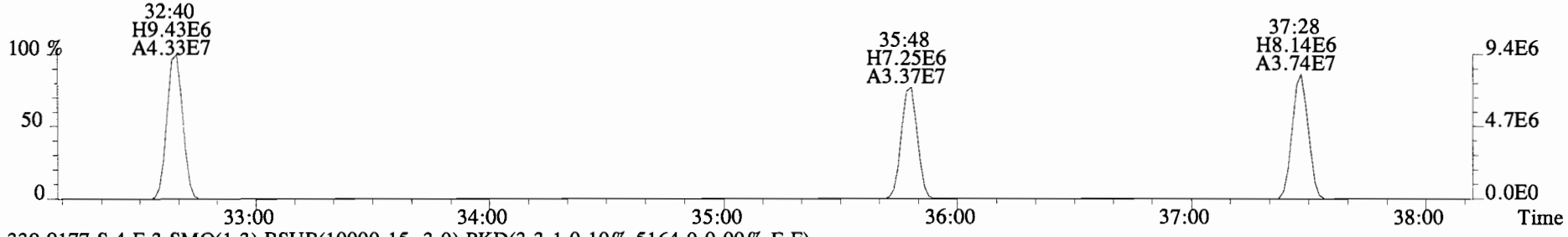
File:141021E2 #1-761 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1628.0,0.00%,F,F)



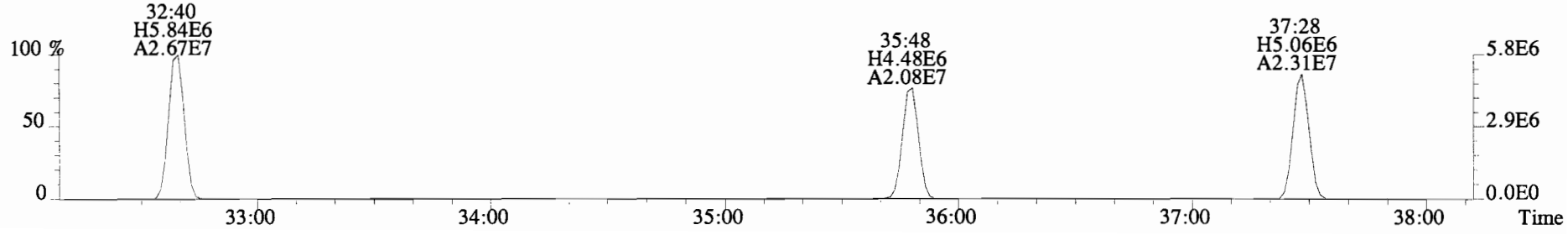
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4392.0,0.00%,F,F)

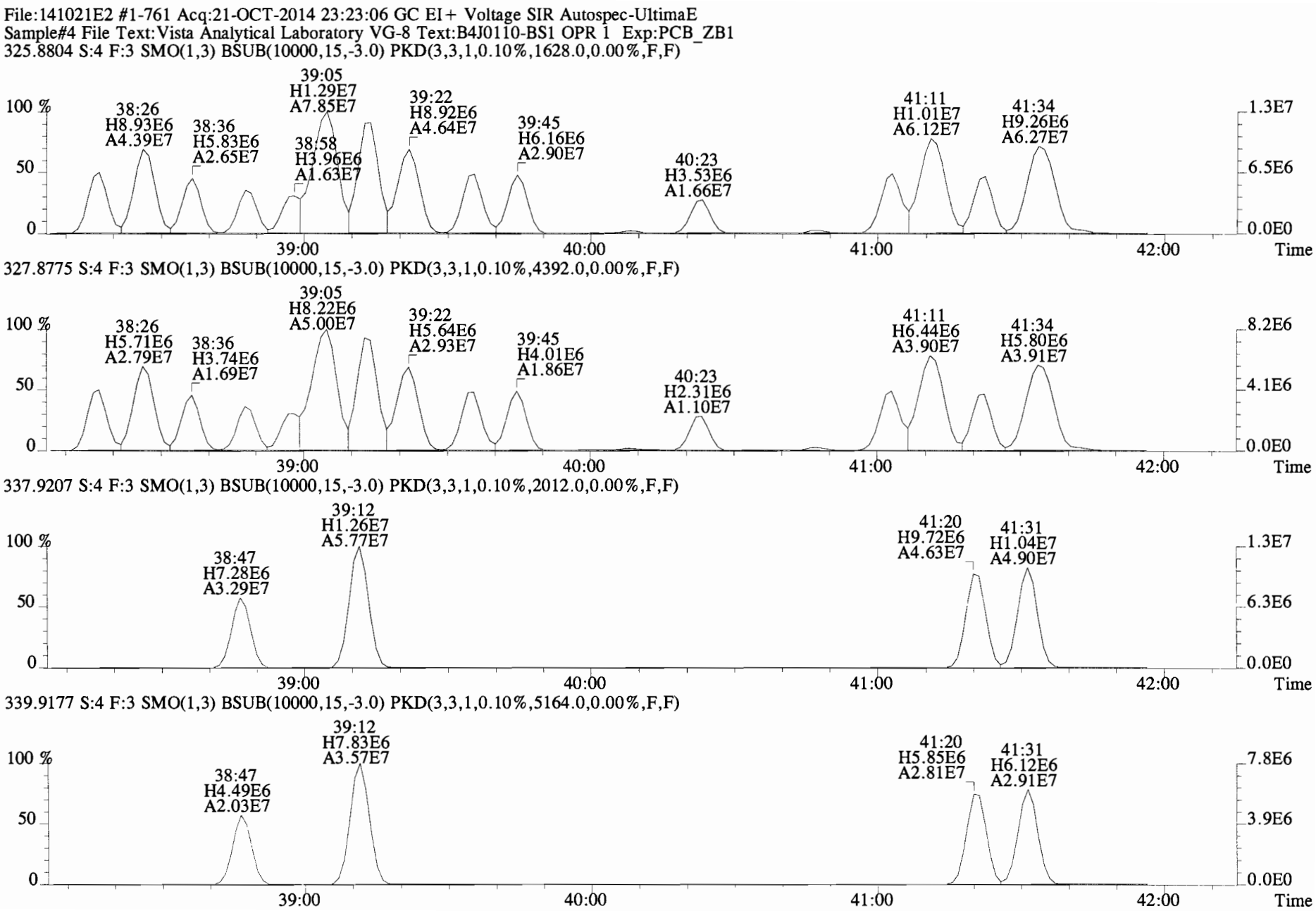


337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2012.0,0.00%,F,F)

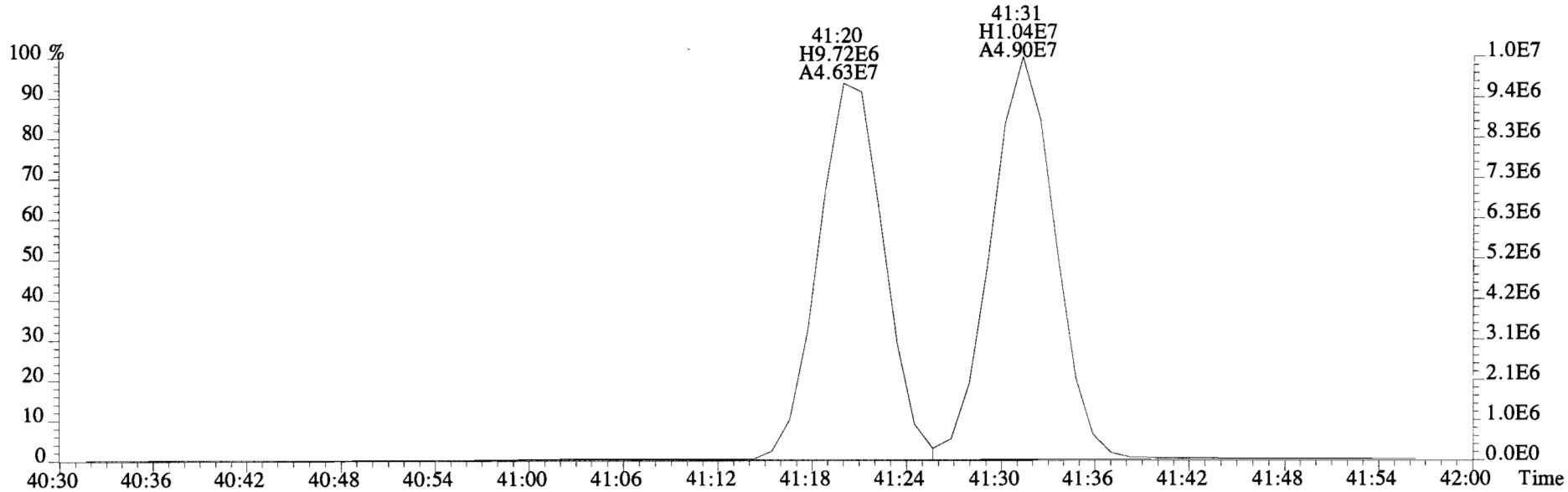


339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5164.0,0.00%,F,F)

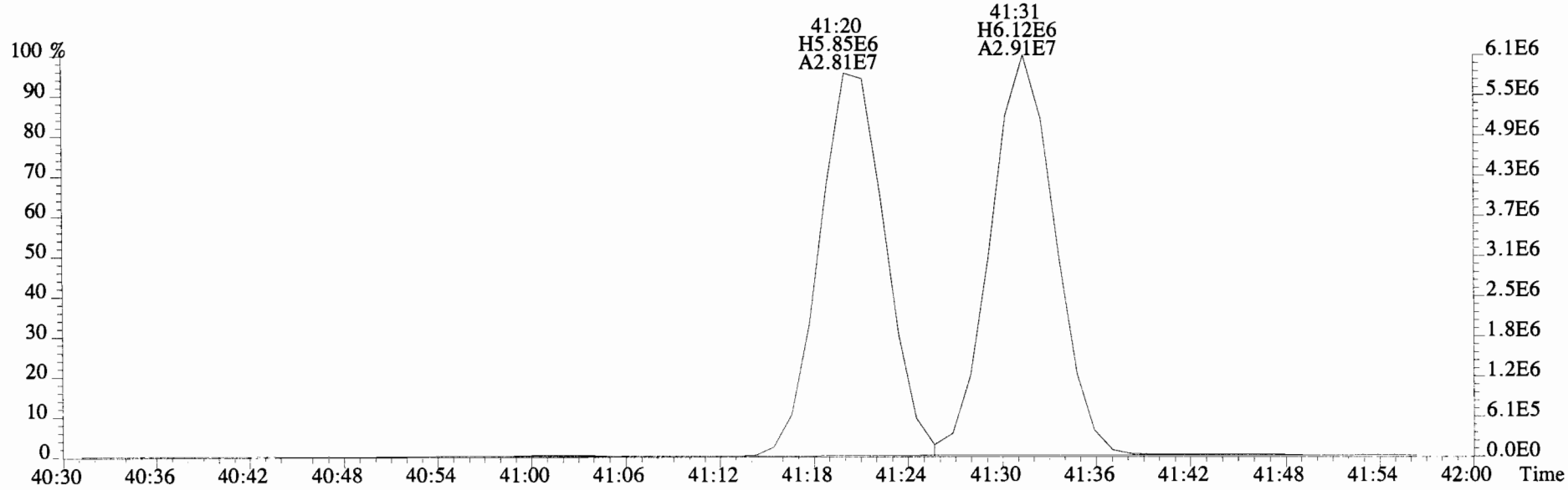



File:141021E2 #1-761 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1628.0,0.00%,F,F)
38:26 H8.93E6 A4.39E7
38:36 H5.83E6 A2.65E7
39:05 H1.29E7 A7.85E7
38:58 H3.96E6 A1.63E7
39:22 H8.92E6 A4.64E7
39:45 H6.16E6 A2.90E7
40:23 H3.53E6 A1.66E7
41:11 H1.01E7 A6.12E7
41:34 H9.26E6 A6.27E7
100 %
50
0
1.3E7
6.5E6
0.0E0
39:00
40:00
41:00
42:00
Time
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4392.0,0.00%,F,F)
38:26 H5.71E6 A2.79E7
38:36 H3.74E6 A1.69E7
39:05 H8.22E6 A5.00E7
39:22 H5.64E6 A2.93E7
39:45 H4.01E6 A1.86E7
40:23 H2.31E6 A1.10E7
41:11 H6.44E6 A3.90E7
41:34 H5.80E6 A3.91E7
100 %
50
0
8.2E6
4.1E6
0.0E0
39:00
40:00
41:00
42:00
Time
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2012.0,0.00%,F,F)
38:47 H7.28E6 A3.29E7
39:12 H1.26E7 A5.77E7
41:20 H9.72E6 A4.63E7
41:31 H1.04E7 A4.90E7
100 %
50
0
1.3E7
6.3E6
0.0E0
39:00
40:00
41:00
42:00
Time
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5164.0,0.00%,F,F)
38:47 H4.49E6 A2.03E7
39:12 H7.83E6 A3.57E7
41:20 H5.85E6 A2.81E7
41:31 H6.12E6 A2.91E7
100 %
50
0
7.8E6
3.9E6
0.0E0
39:00
40:00
41:00
42:00
Time

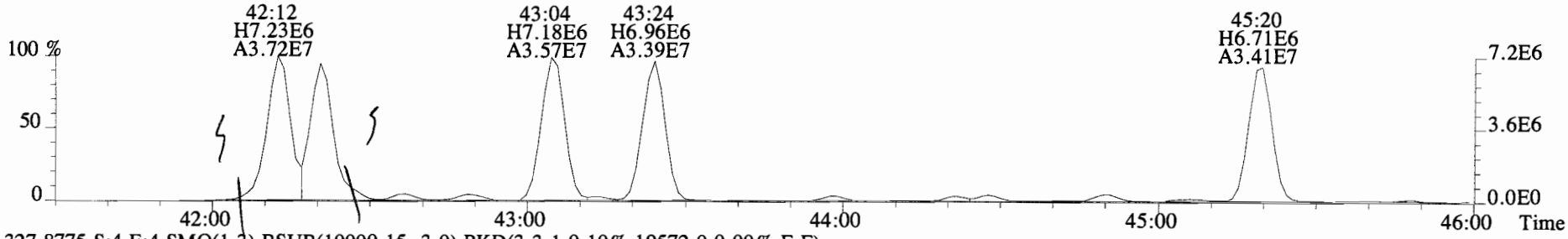
File:141021E2 #1-761 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2012.0,0.00%,F,F)



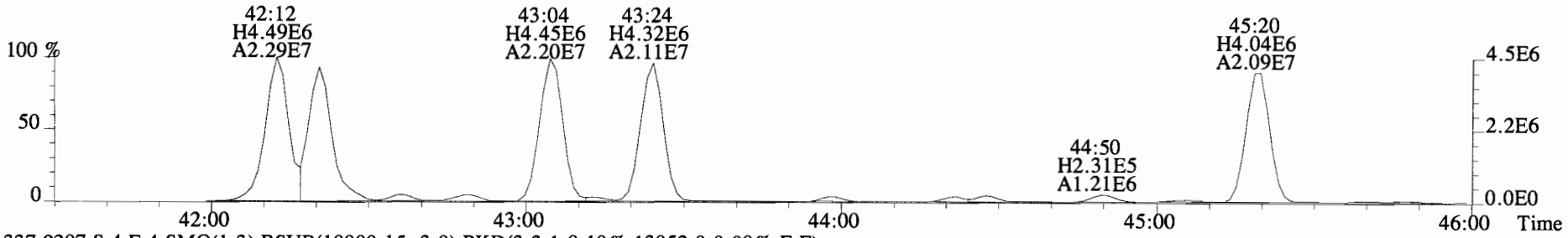
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5164.0,0.00%,F,F)



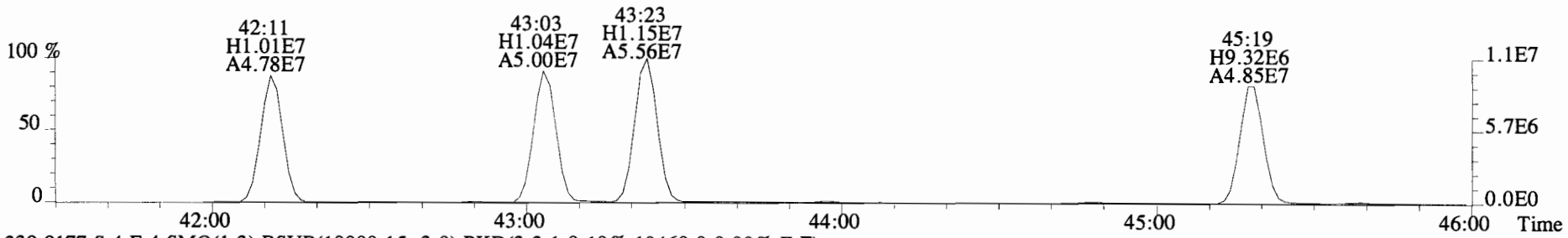
File:141021E2 #1-547 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30956.0,0.00%,F,F)



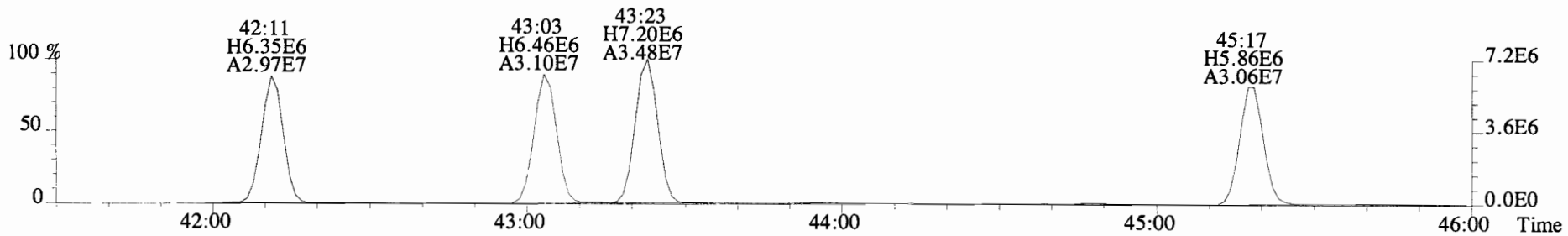
327.8775 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19572.0,0.00%,F,F)



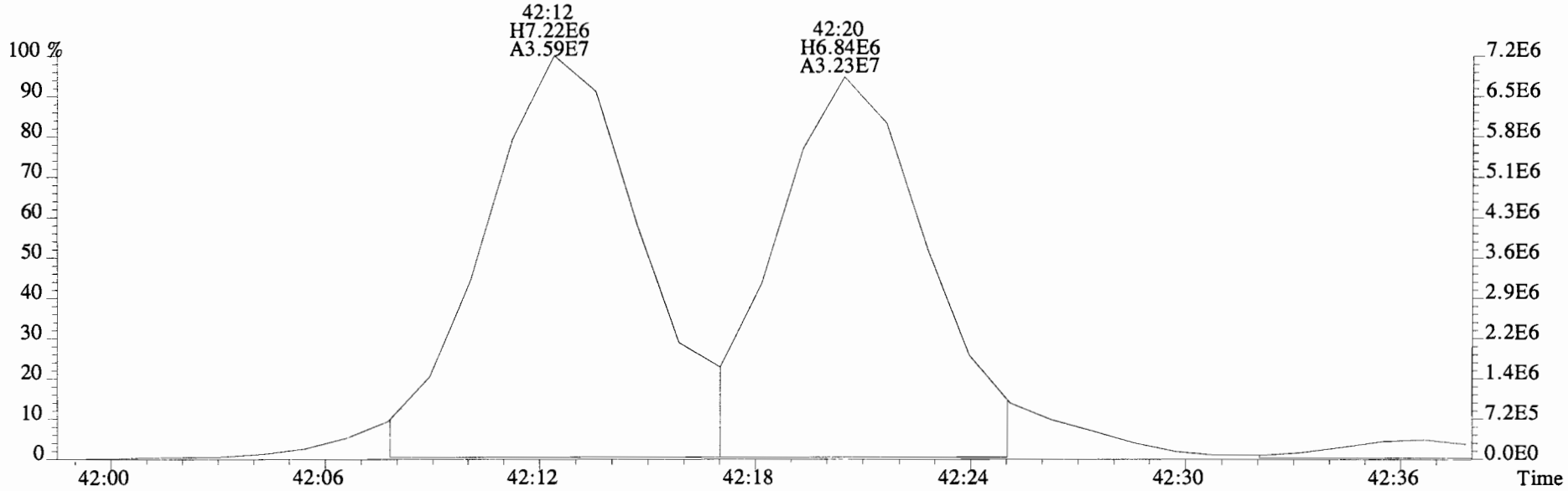
337.9207 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13052.0,0.00%,F,F)



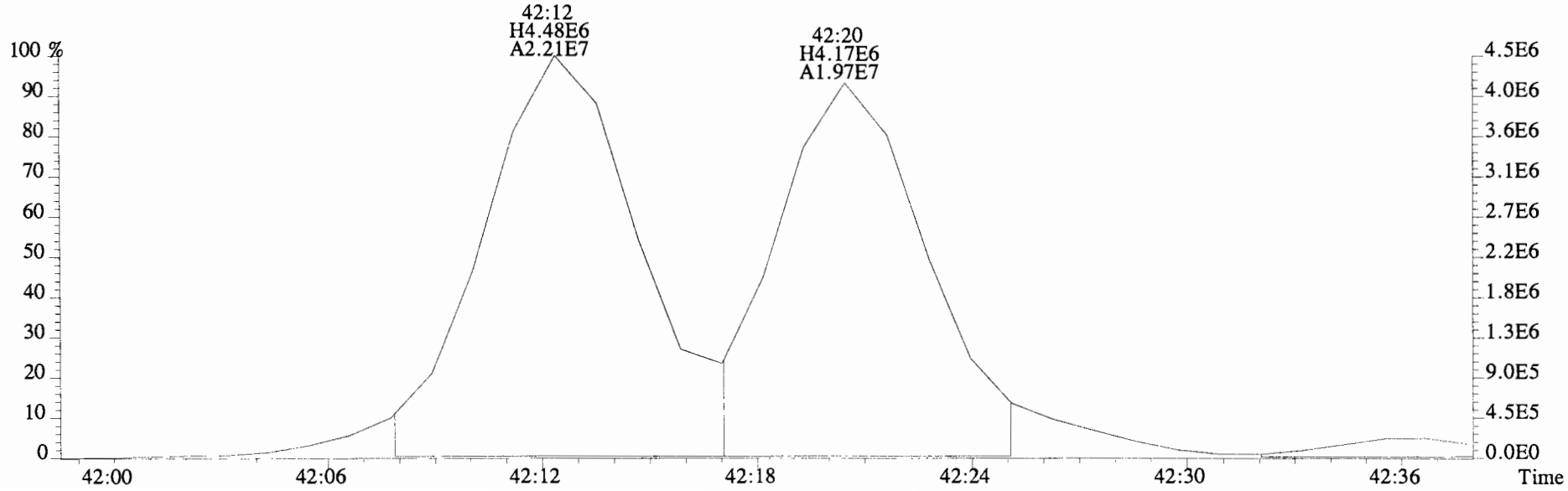
339.9177 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10460.0,0.00%,F,F)



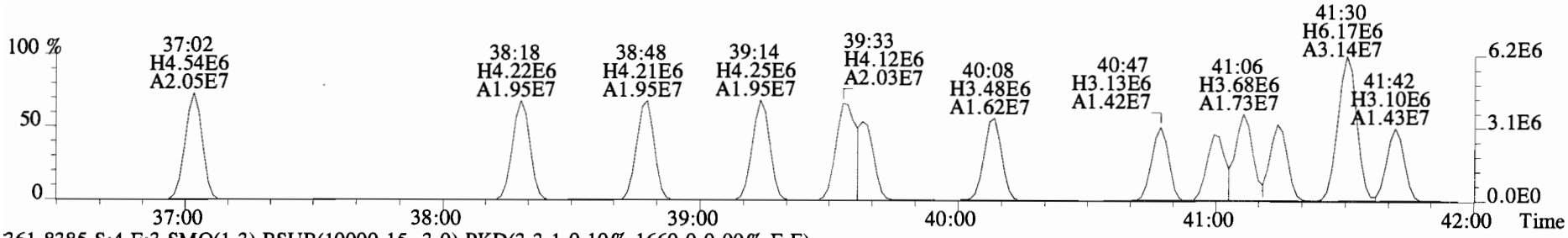
File:141021E2 #1-547 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30956.0,0.00%,F,F)



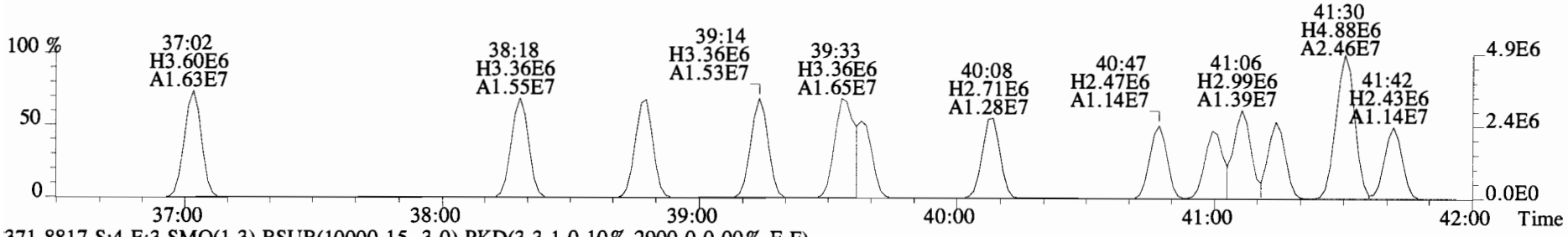
327.8775 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19572.0,0.00%,F,F)



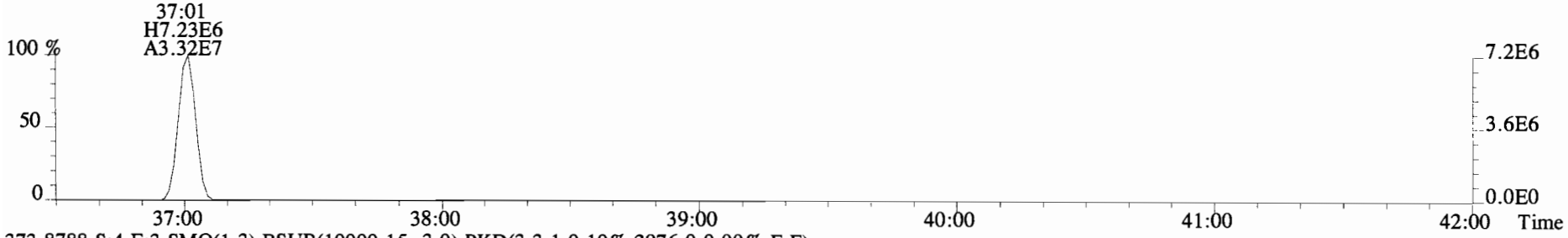
File:141021E2 #1-761 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1688.0,0.00%,F,F)



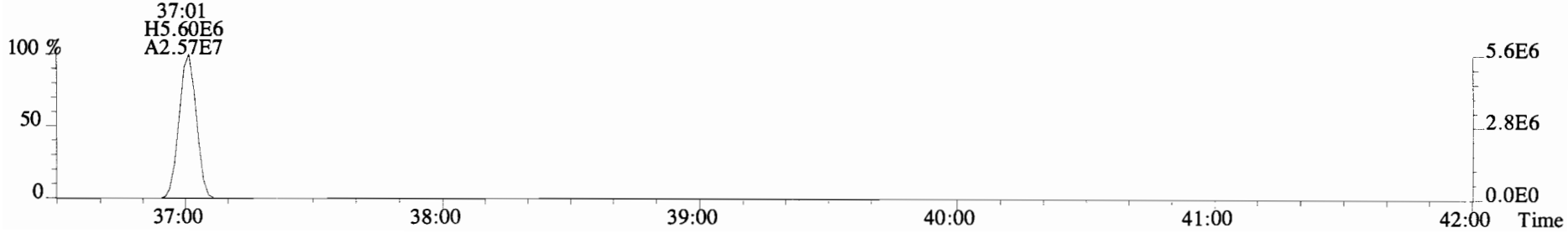
361.8385 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1660.0,0.00%,F,F)

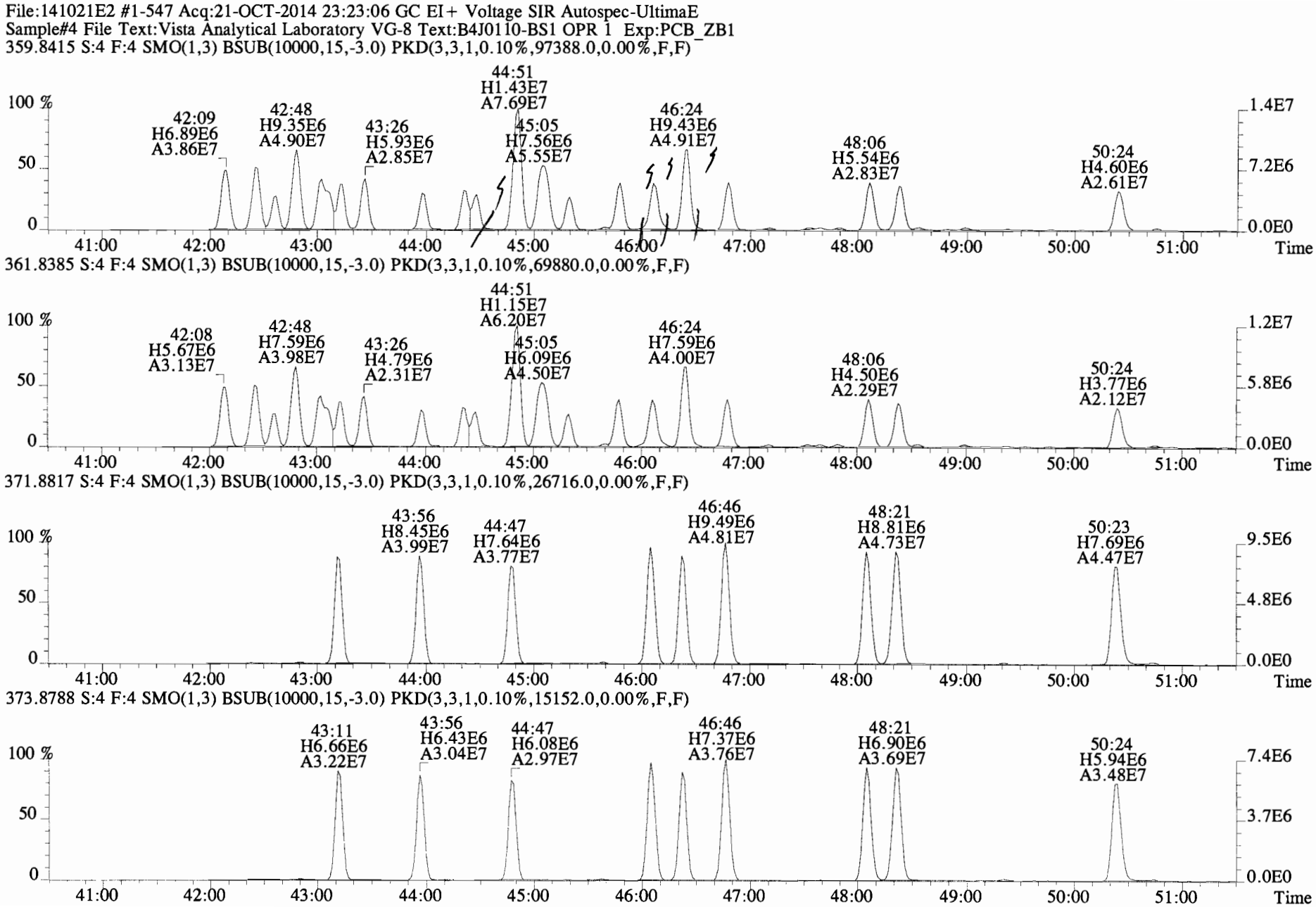


371.8817 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2900.0,0.00%,F,F)

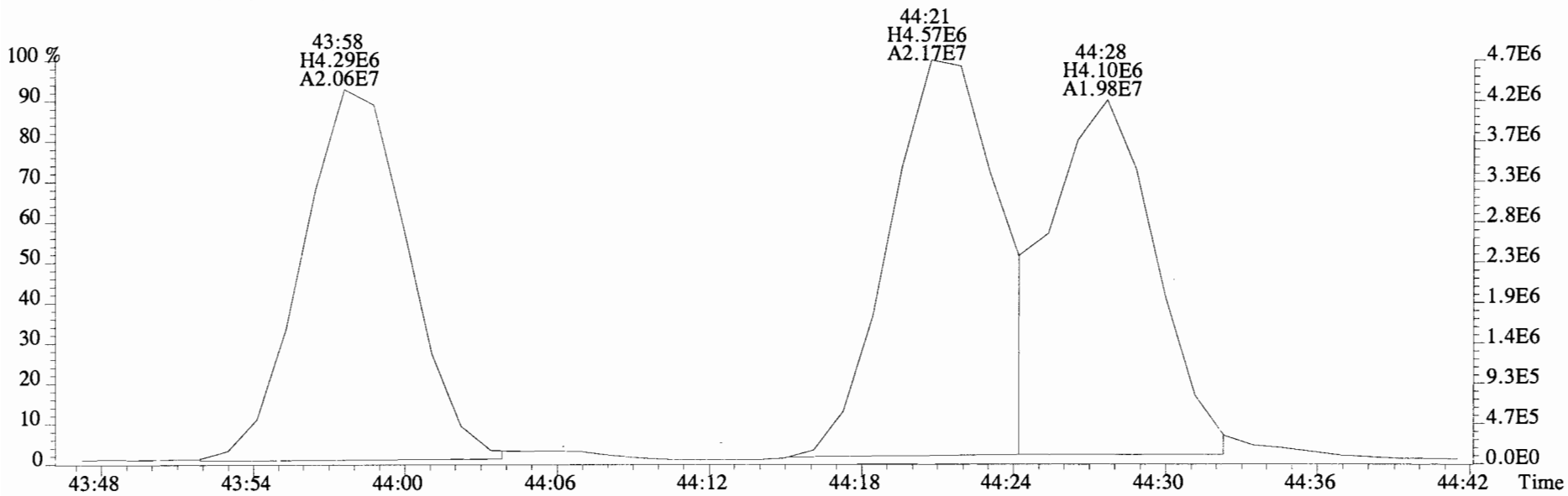


373.8788 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2976.0,0.00%,F,F)

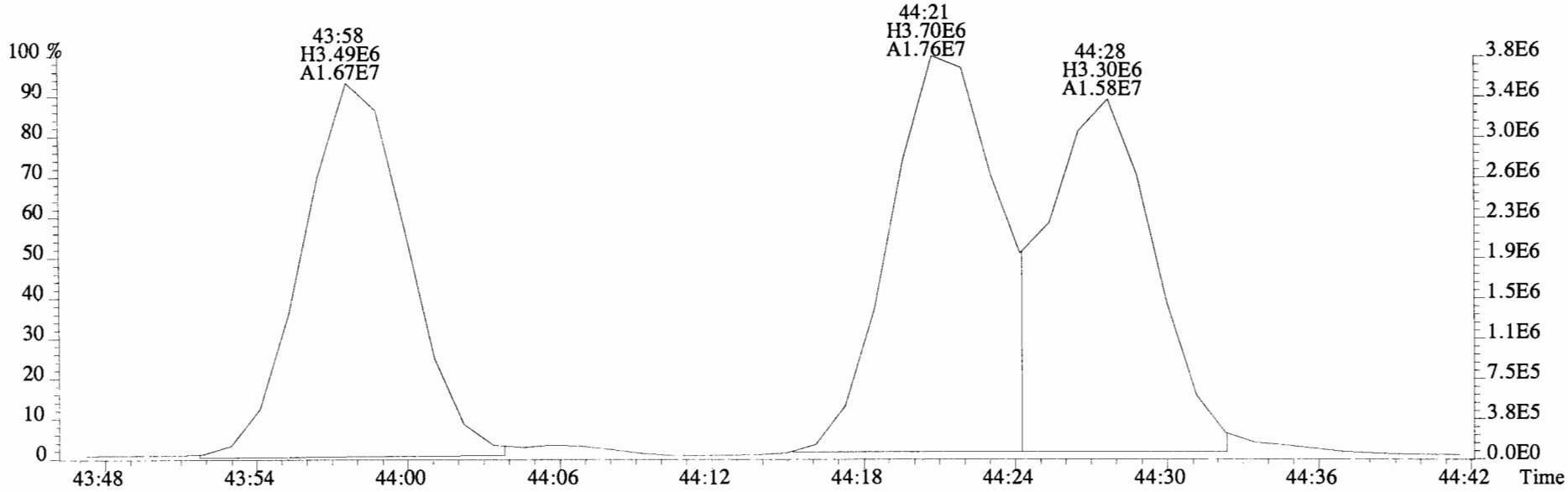



File:141021E2 #1-547 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,97388.0,0.00%,F,F)
42:09 H6.89E6 A3.86E7
42:48 H9.35E6 A4.90E7
43:26 H5.93E6 A2.85E7
44:51 H1.43E7 A7.69E7
45:05 H7.56E6 A5.55E7
46:24 H9.43E6 A4.91E7
48:06 H5.54E6 A2.83E7
50:24 H4.60E6 A2.61E7
361.8385 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,69880.0,0.00%,F,F)
42:08 H5.67E6 A3.13E7
42:48 H7.59E6 A3.98E7
43:26 H4.79E6 A2.31E7
44:51 H1.15E7 A6.20E7
45:05 H6.09E6 A4.50E7
46:24 H7.59E6 A4.00E7
48:06 H4.50E6 A2.29E7
50:24 H3.77E6 A2.12E7
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26716.0,0.00%,F,F)
43:56 H8.45E6 A3.99E7
44:47 H7.64E6 A3.77E7
46:46 H9.49E6 A4.81E7
48:21 H8.81E6 A4.73E7
50:23 H7.69E6 A4.47E7
373.8788 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15152.0,0.00%,F,F)
43:11 H6.66E6 A3.22E7
43:56 H6.43E6 A3.04E7
44:47 H6.08E6 A2.97E7
46:46 H7.37E6 A3.76E7
48:21 H6.90E6 A3.69E7
50:24 H5.94E6 A3.48E7
100 %
50
0
1.4E7
7.2E6
0.0E0
1.2E7
5.8E6
9.5E6
4.8E6
7.4E6
3.7E6
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
51:00
Time

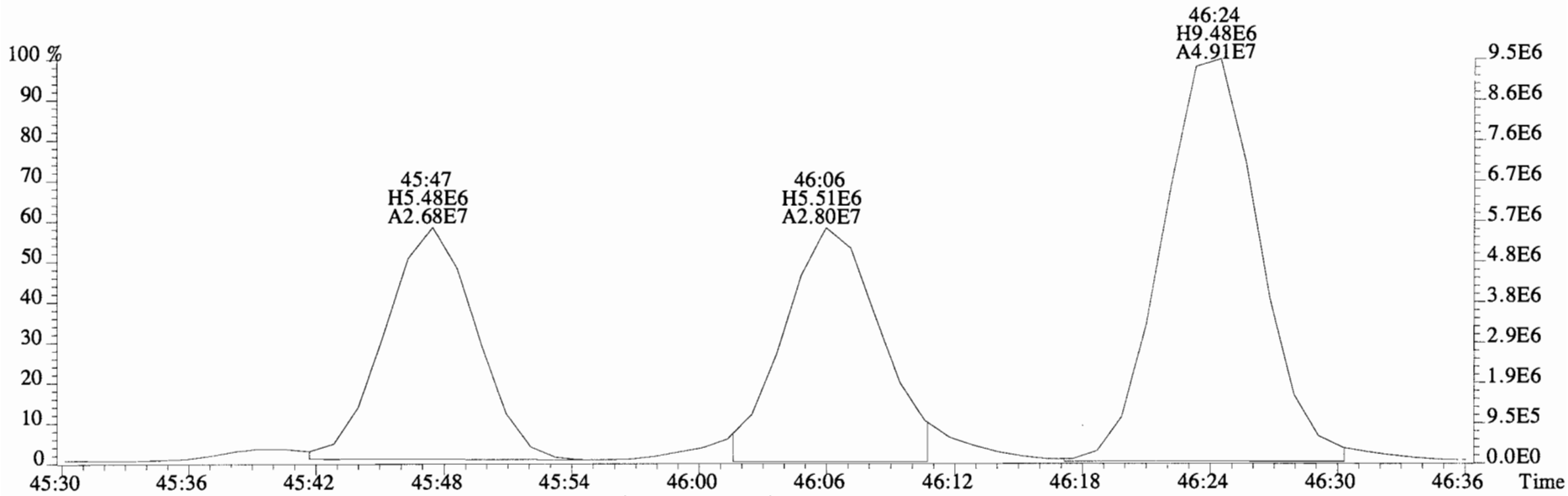
File:141021E2 #1-547 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,97388.0,0.00%,F,F)



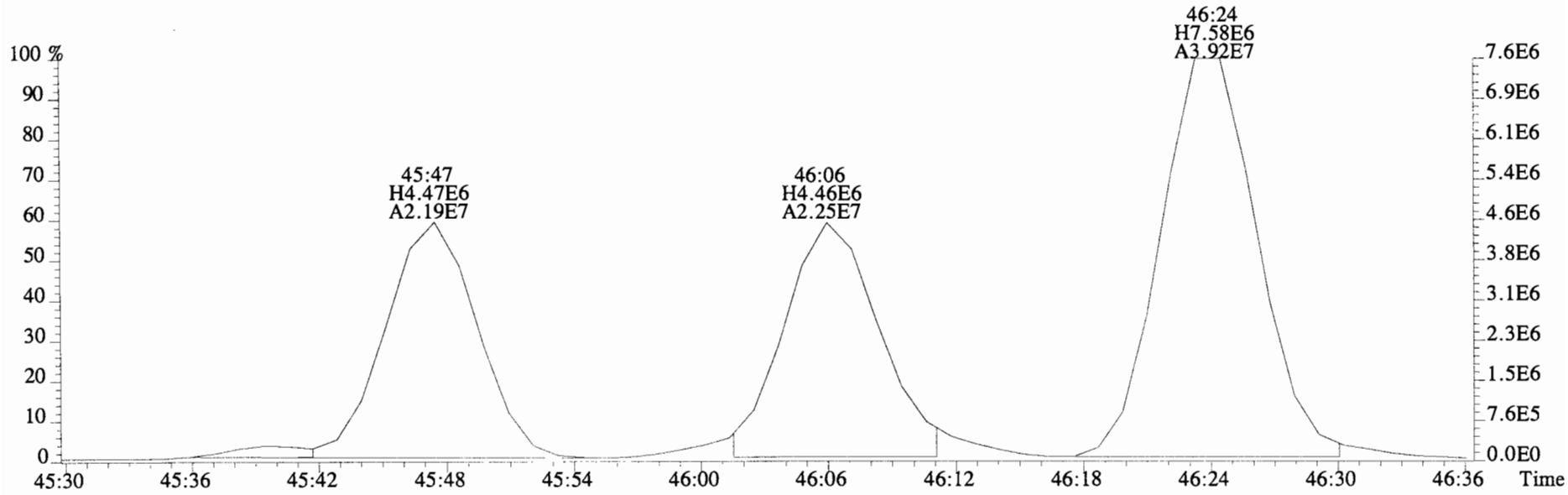
361.8385 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,69880.0,0.00%,F,F)



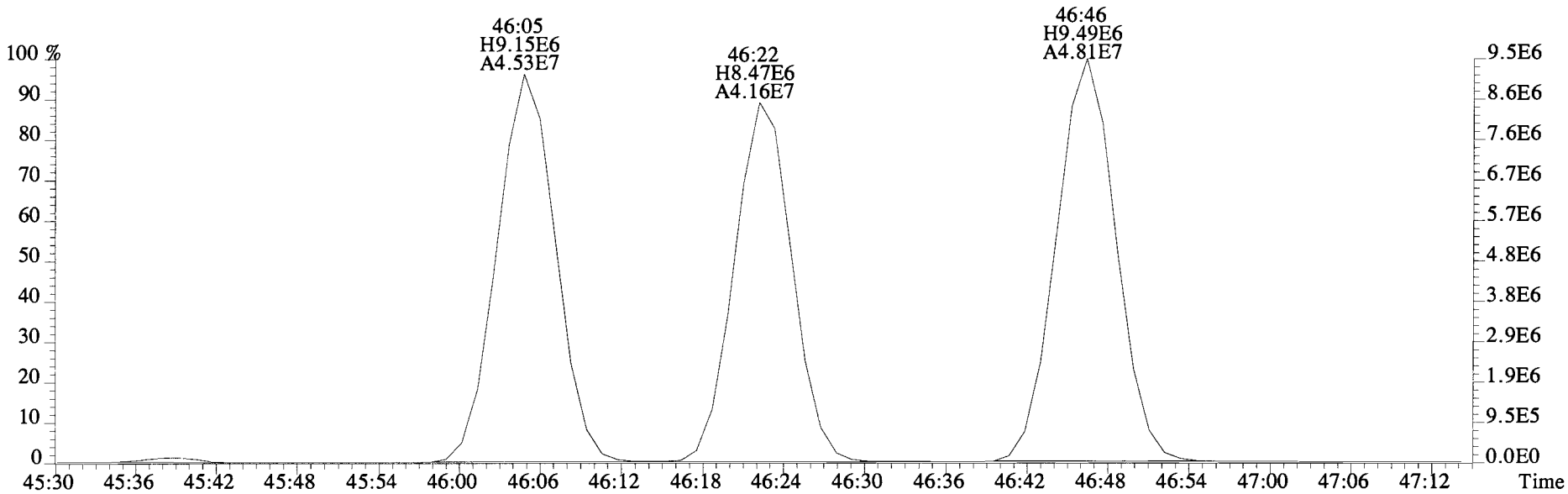
File:141021E2 #1-547 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,97388.0,0.00%,F,F)



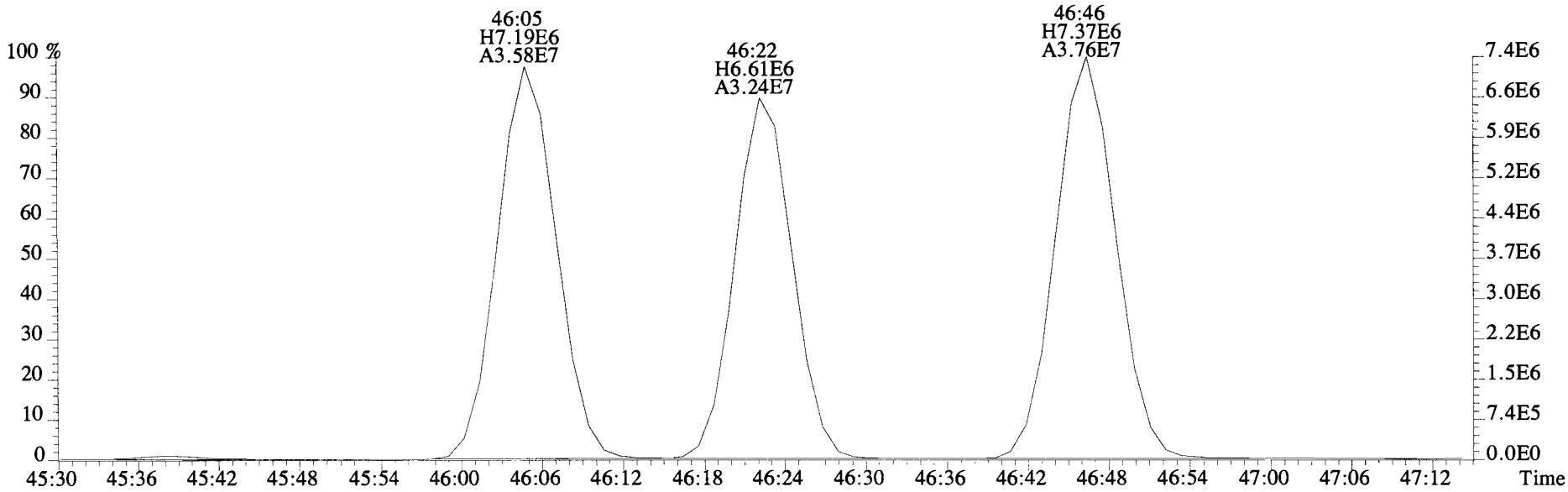
361.8385 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,69880.0,0.00%,F,F)



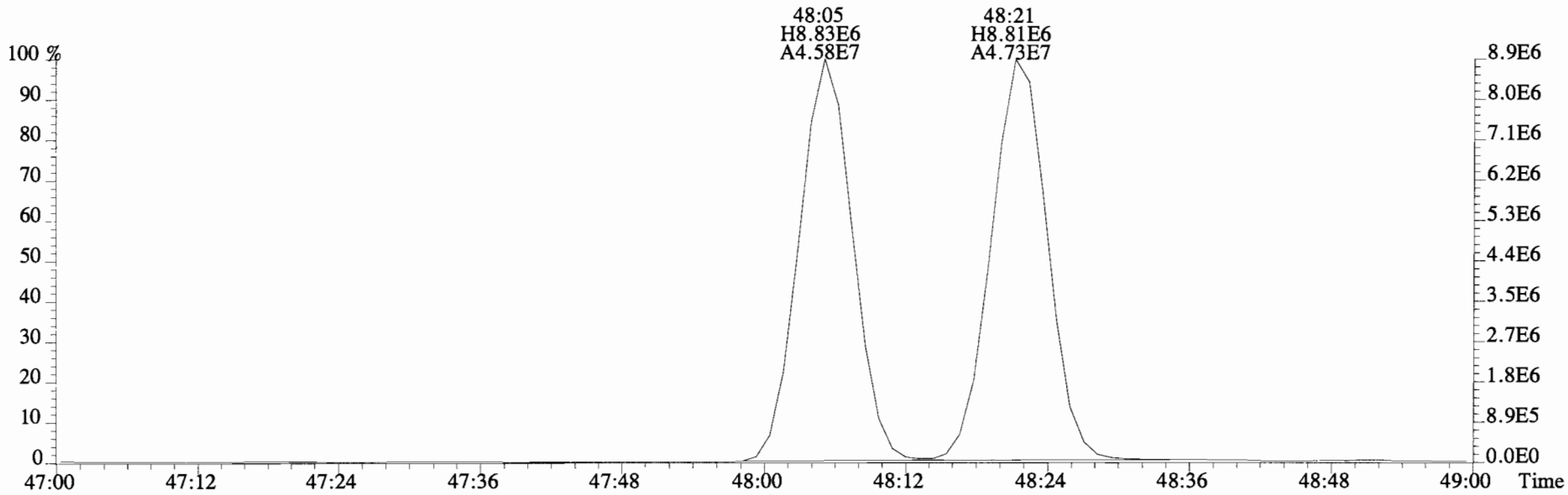
File:141021E2 #1-547 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26716.0,0.00%,F,F)



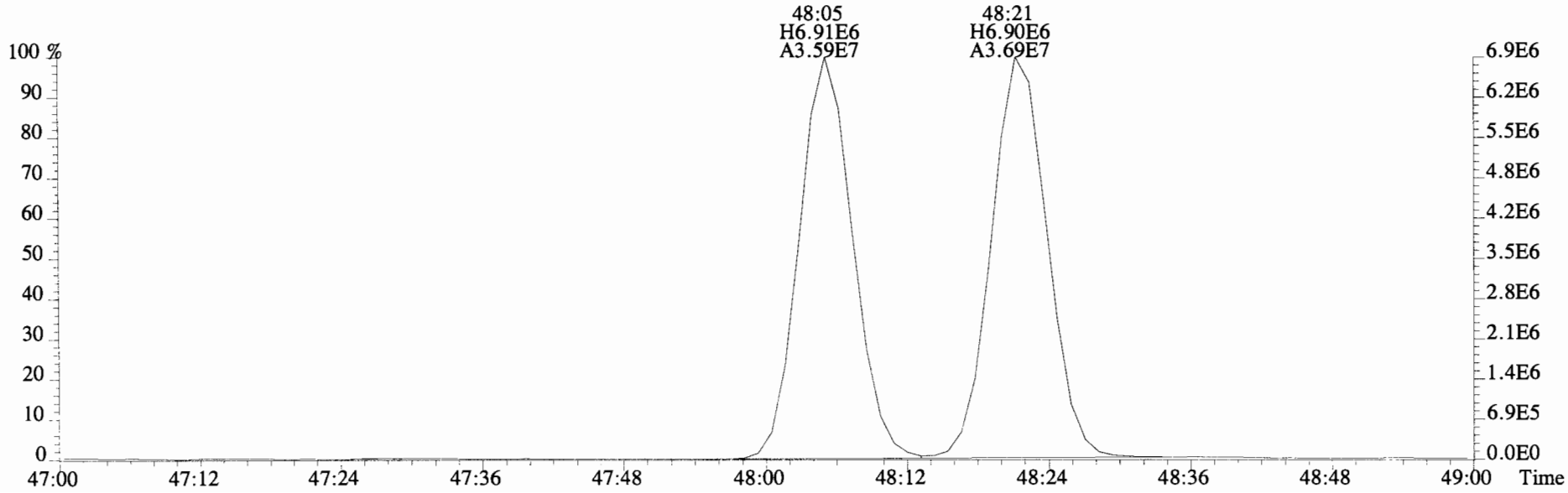
373.8788 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15152.0,0.00%,F,F)

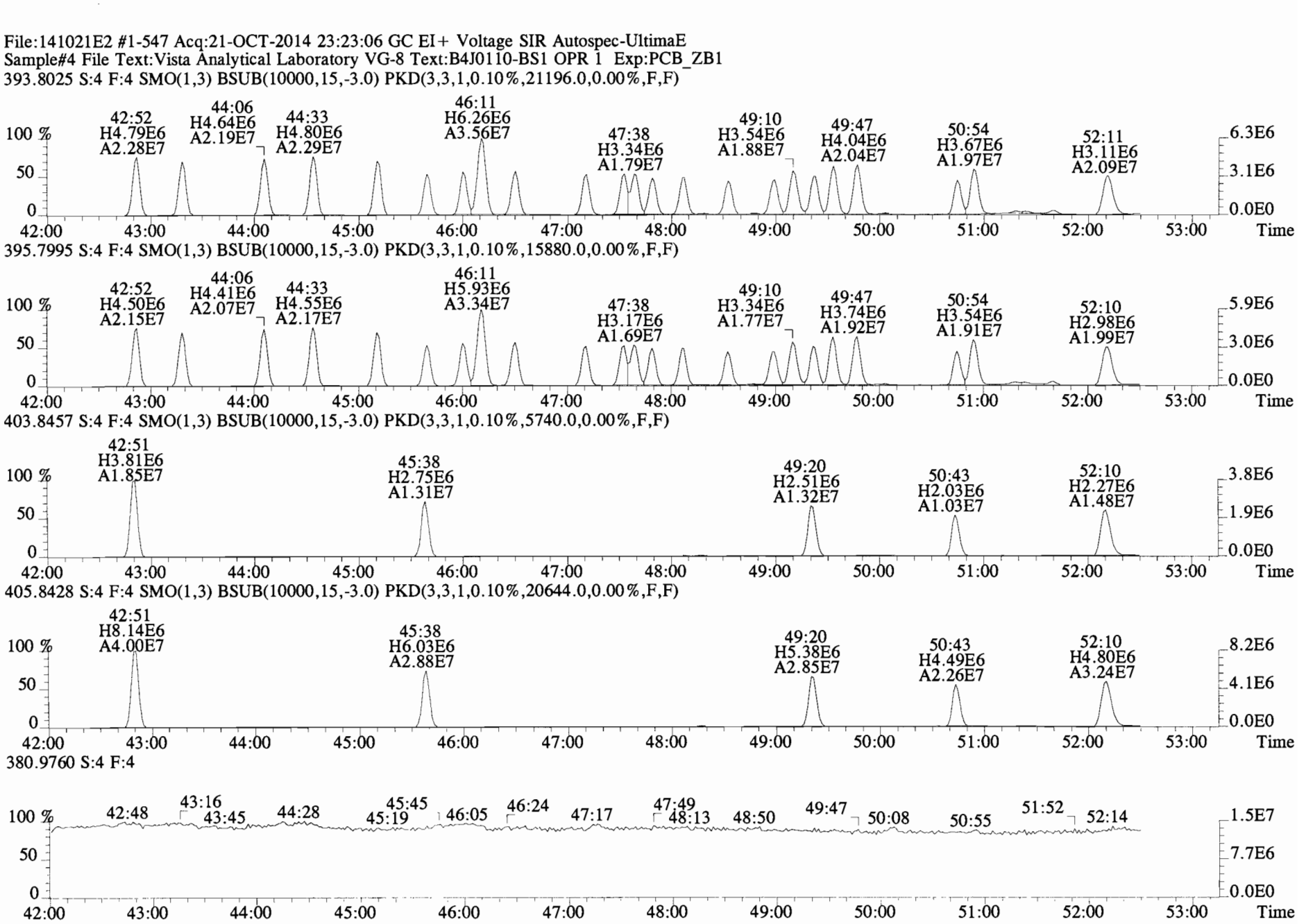


File:141021E2 #1-547 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26716.0,0.00%,F,F)

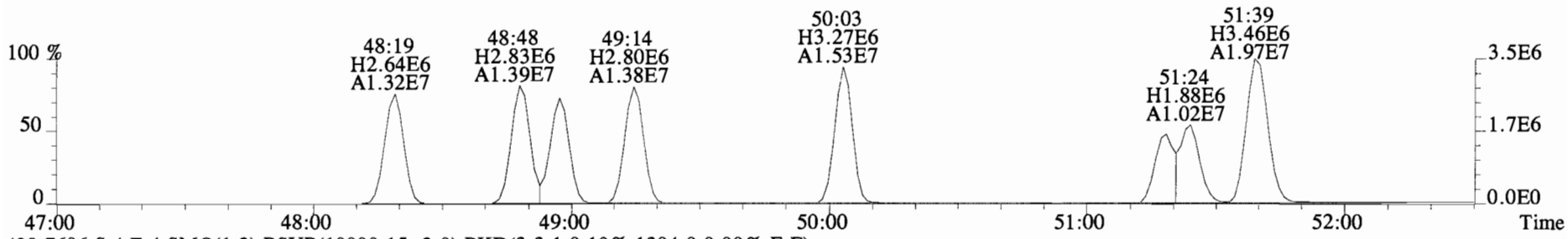


373.8788 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15152.0,0.00%,F,F)

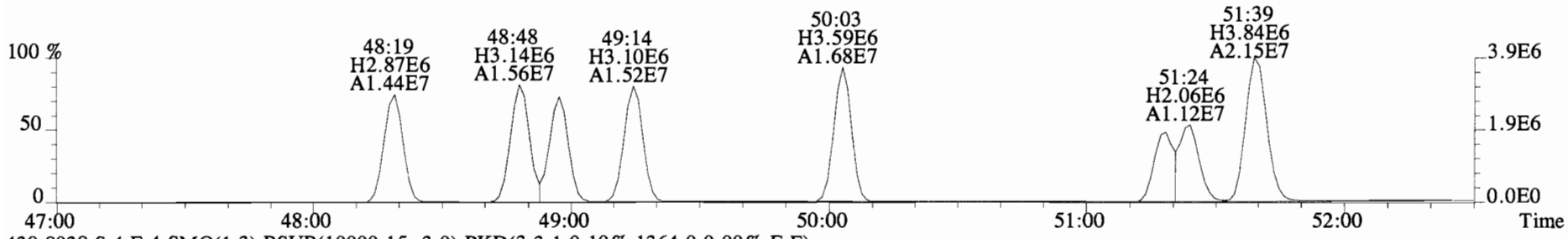



File:141021E2 #1-547 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21196.0,0.00%,F,F)
42:52 H4.79E6 A2.28E7
44:06 H4.64E6 A2.19E7
44:33 H4.80E6 A2.29E7
46:11 H6.26E6 A3.56E7
47:38 H3.34E6 A1.79E7
49:10 H3.54E6 A1.88E7
49:47 H4.04E6 A2.04E7
50:54 H3.67E6 A1.97E7
52:11 H3.11E6 A2.09E7
395.7995 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15880.0,0.00%,F,F)
42:52 H4.50E6 A2.15E7
44:06 H4.41E6 A2.07E7
44:33 H4.55E6 A2.17E7
46:11 H5.93E6 A3.34E7
47:38 H3.17E6 A1.69E7
49:10 H3.34E6 A1.77E7
49:47 H3.74E6 A1.92E7
50:54 H3.54E6 A1.91E7
52:10 H2.98E6 A1.99E7
403.8457 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5740.0,0.00%,F,F)
42:51 H3.81E6 A1.85E7
45:38 H2.75E6 A1.31E7
49:20 H2.51E6 A1.32E7
50:43 H2.03E6 A1.03E7
52:10 H2.27E6 A1.48E7
405.8428 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20644.0,0.00%,F,F)
42:51 H8.14E6 A4.00E7
45:38 H6.03E6 A2.88E7
49:20 H5.38E6 A2.85E7
50:43 H4.49E6 A2.26E7
52:10 H4.80E6 A3.24E7
380.9760 S:4 F:4
42:48
43:16
43:45
44:28
45:45
45:19
46:05
46:24
47:17
47:49
48:13
48:50
49:47
50:08
50:55
51:52
52:14
100 %
50
0
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
51:00
52:00
53:00
Time
6.3E6
3.1E6
0.0E0
5.9E6
3.0E6
3.8E6
1.9E6
8.2E6
4.1E6
1.5E7
7.7E6

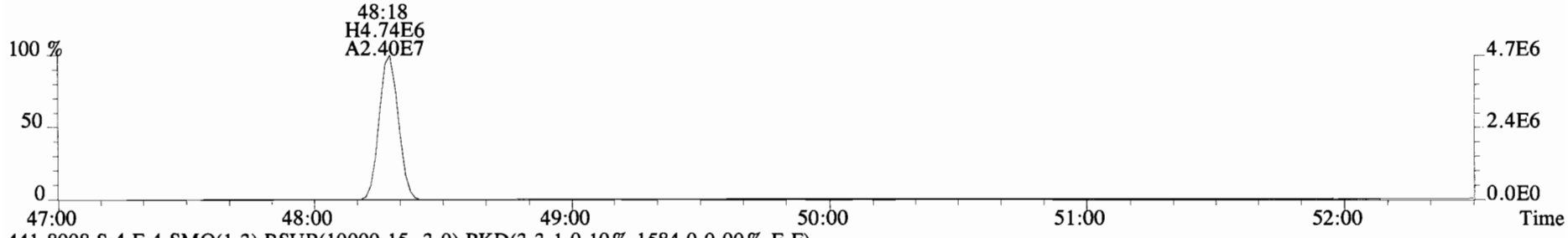
File:141021E2 #1-547 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
427.7635 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1276.0,0.00%,F,F)



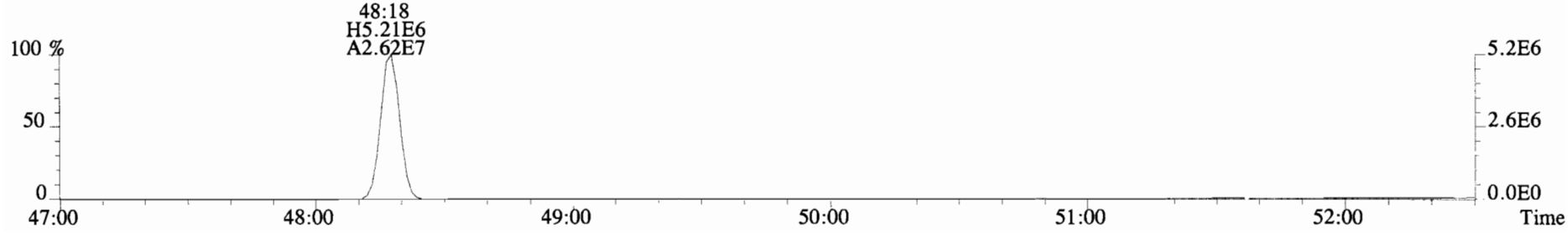
429.7606 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1304.0,0.00%,F,F)



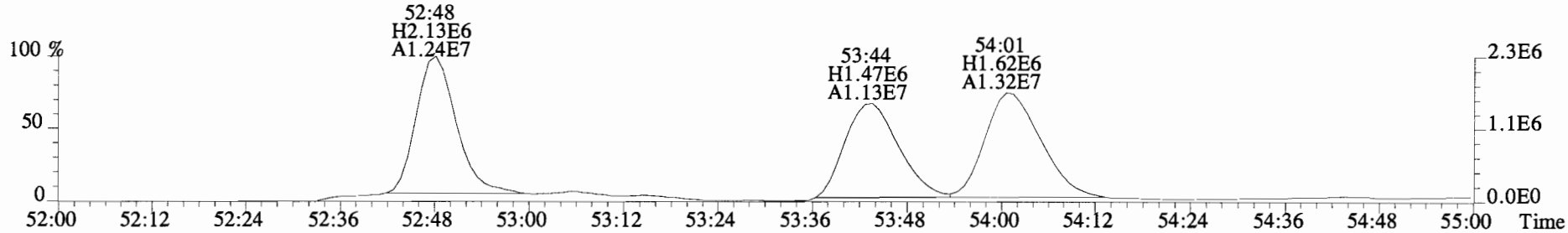
439.8038 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1364.0,0.00%,F,F)



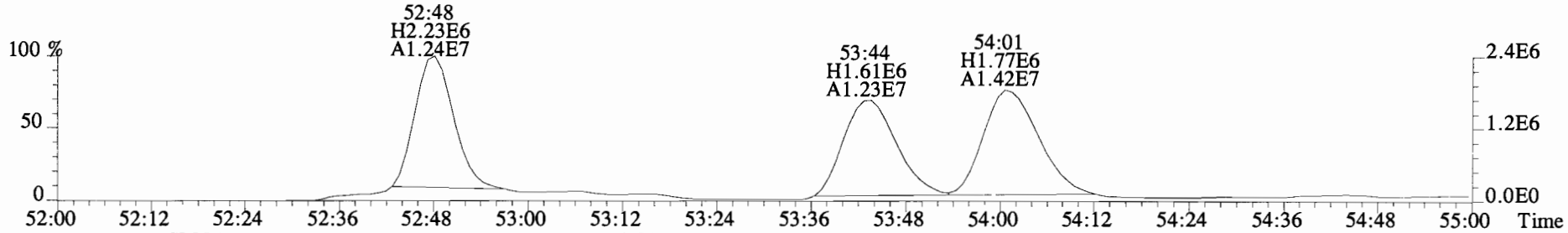
441.8008 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1584.0,0.00%,F,F)



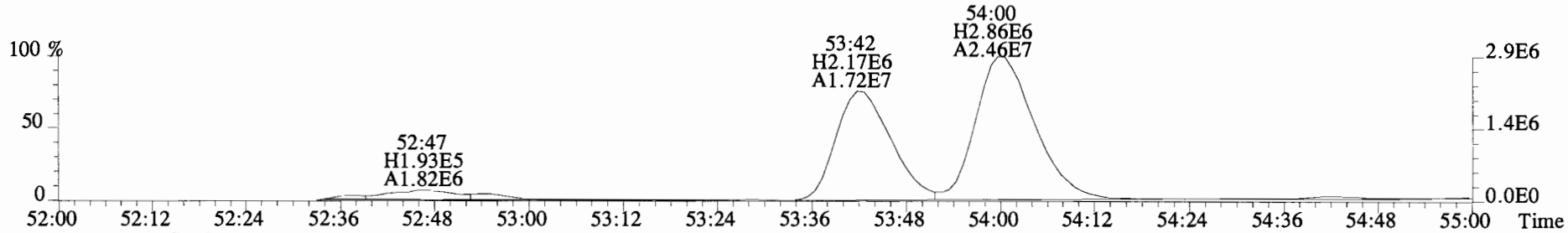
File:141021E2 #1-434 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
427.7635 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,70840.0,0.00%,F,F)



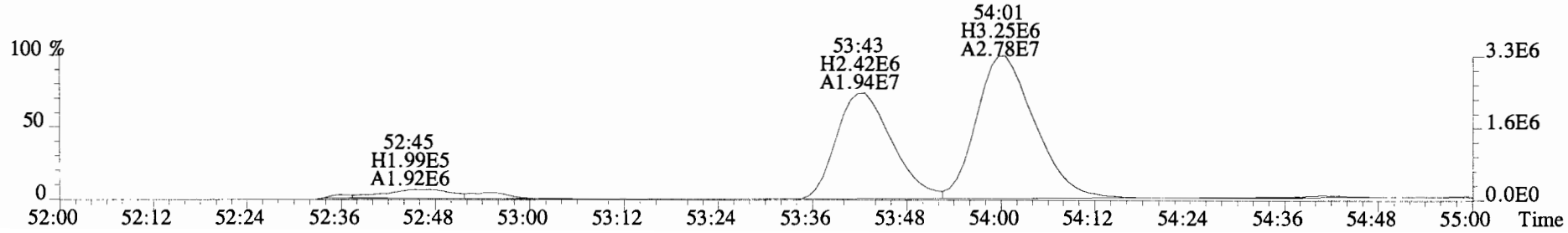
429.7606 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,114436.0,0.00%,F,F)



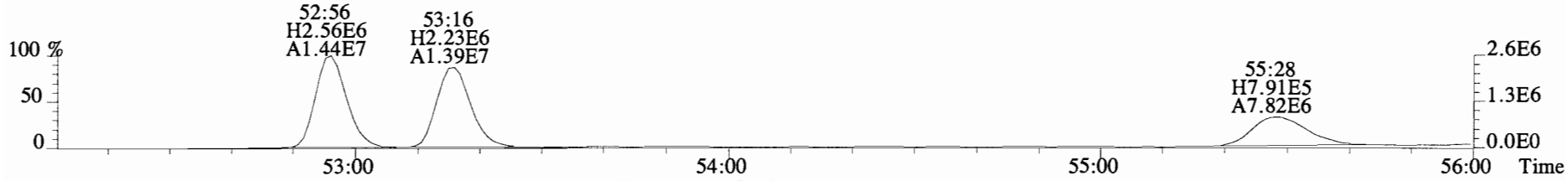
439.8038 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8152.0,0.00%,F,F)



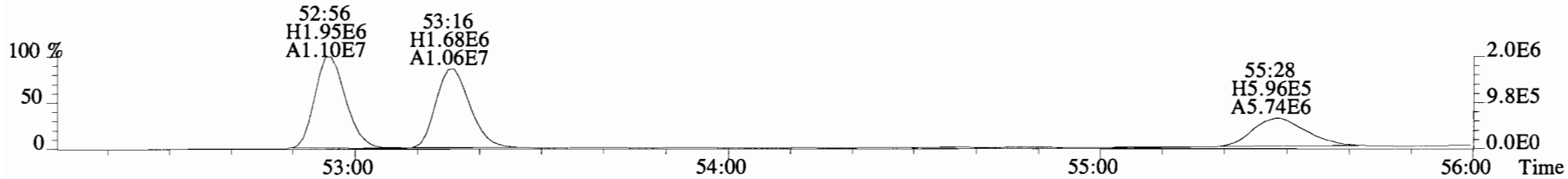
441.8008 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10436.0,0.00%,F,F)



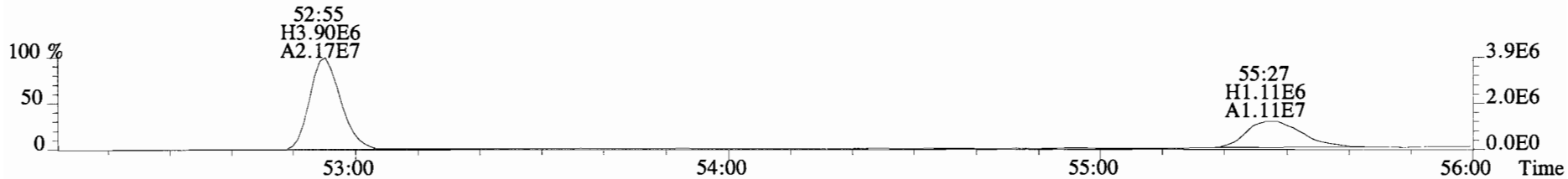
File:141021E2 #1-434 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
463.7216 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,29584.0,0.00%,F,F)



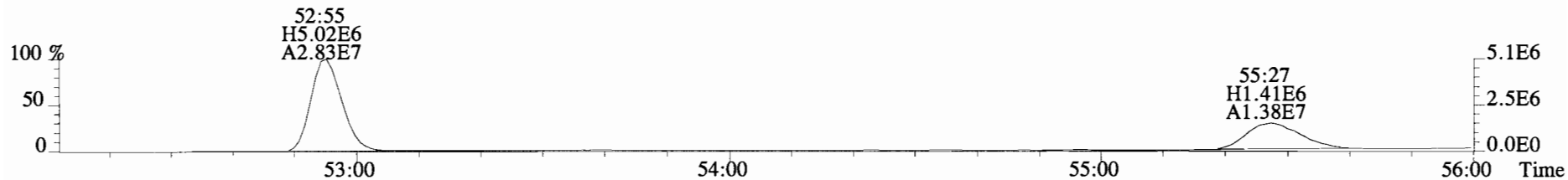
465.7186 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,22272.0,0.00%,F,F)



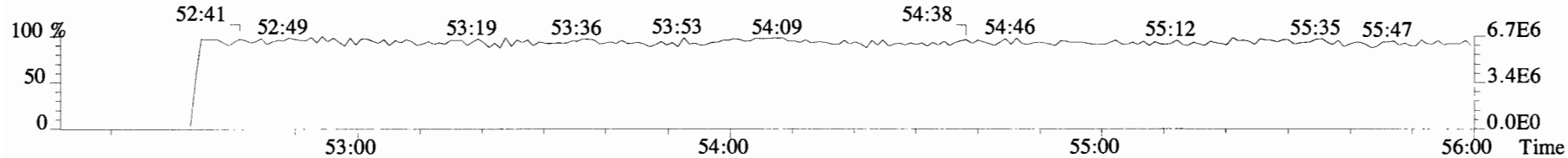
473.7648 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,32080.0,0.00%,F,F)



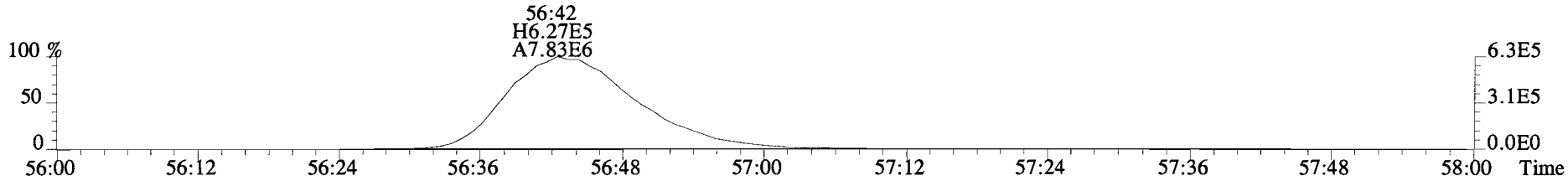
475.7619 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41016.0,0.00%,F,F)



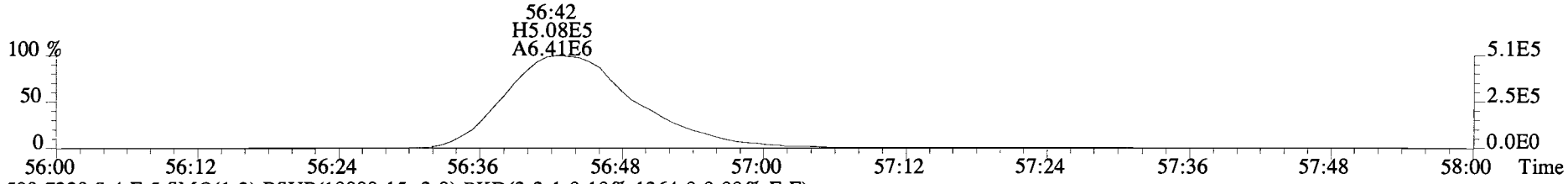
492.9697 S:4 F:5



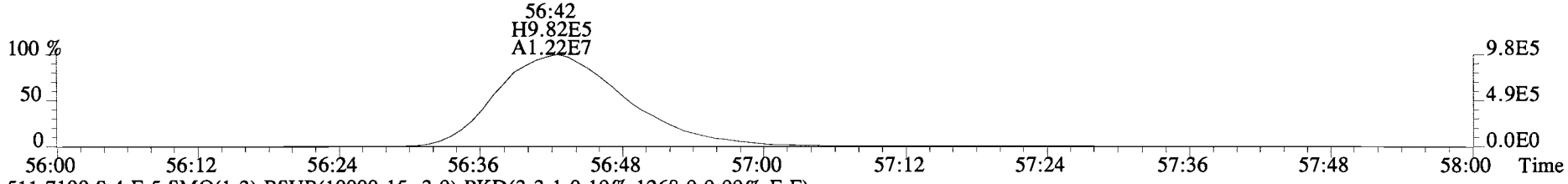
File:141021E2 #1-434 Acq:21-OCT-2014 23:23:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4J0110-BS1 OPR 1 Exp:PCB_ZB1
497.6826 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1124.0,0.00%,F,F)



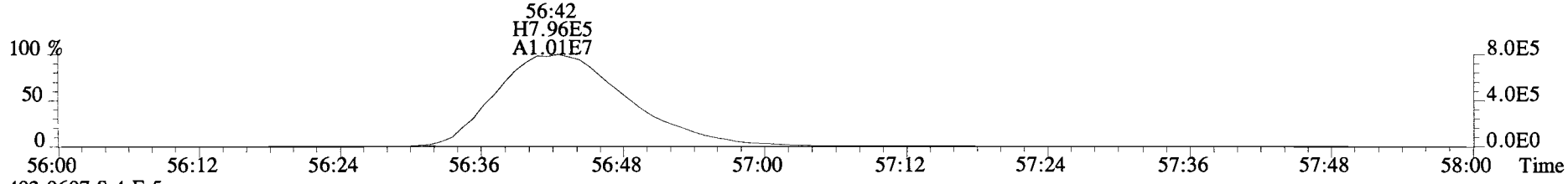
499.6797 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1276.0,0.00%,F,F)



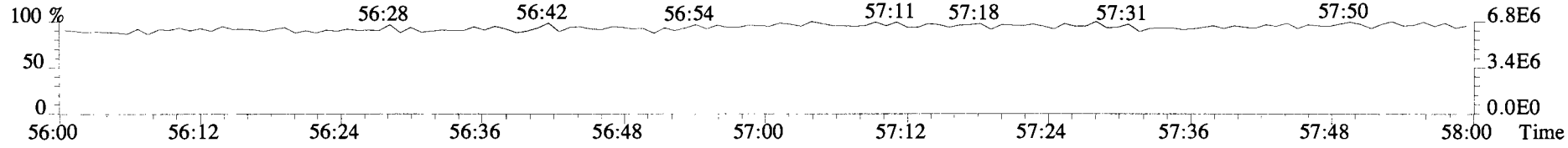
509.7229 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1364.0,0.00%,F,F)



511.7199 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1268.0,0.00%,F,F)



492.9697 S:4 F:5



Client ID: CC-A-01-20141013-W Filename: 141021E2 S:7 Acq:22-OCT-14 02:33:44 ConCal: ST141021E2-1

Lab ID: 1400762-01 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.013 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Mono	PCB-1	2.32e+05	2.71	y 16:29	1.25	2.64		*	2.5	*	1.000	0.996-1.006
Mono	PCB-2	8.97e+04	2.78	y 18:46	1.18	1.06		*	2.5	*	0.989	0.983-0.993
Mono	PCB-3	2.03e+05	3.03	y 19:00	1.22	2.31		*	2.5	*	1.001	0.996-1.006
Di	PCB-4/10	3.24e+05	1.43	y 20:18	1.55	6.28		*	2.5	*	1.001	0.998-1.008
Di	PCB-7/9	*	*	n NotF	1.27	*		15900	2.5	5.82	*	0.865-0.873
Di	PCB-6	*	*	n NotF	1.26	*		15900	2.5	5.86	*	0.890-0.899
Di	PCB-5/8	7.22e+05	1.57	y 23:04	1.23	11.2		*	2.5	*	0.912	0.906-0.916
Di	PCB-14	*	*	n NotF	1.23	*		15900	2.5	5.16	*	0.949-0.959
Di	PCB-11	5.55e+06	1.63	y 25:19	1.16	78.5		*	2.5	*	1.001	0.996-1.006
Di	PCB-12/13	*	*	n NotF	1.10	*		15900	2.5	5.78	*	1.010-1.020
Di	PCB-15	8.82e+05	1.55	y 26:01	1.21	12.0		*	2.5	*	1.028	1.024-1.034
Tri	PCB-19	1.50e+05	1.11	y 24:20	1.30	2.87		*	2.5	*	1.001	0.996-1.006
Tri	PCB-30	*	*	n NotF	1.83	*		2520	2.5	0.675	*	1.032-1.042
Tri	PCB-18	8.69e+05	1.13	y 25:56	0.86	16.4		*	2.5	*	0.955	0.949-0.959
Tri	PCB-17	3.27e+05	1.11	y 26:06	0.90	5.92		*	2.5	*	0.961	0.955-0.965
Tri	PCB-24/27	1.47e+05	1.06	y 26:39	1.18	2.03		*	2.5	*	0.981	0.976-0.986
Tri	PCB-16/32	7.60e+05	1.08	y 27:10	1.03	12.0		*	2.5	*	1.000	0.995-1.005
Tri	PCB-34	*	*	n NotF	1.26	*		2670	2.5	0.892	*	0.956-0.966
Tri	PCB-23	*	*	n NotF	1.31	*		2670	2.5	0.858	*	0.959-0.969
Tri	PCB-29	*	*	n NotF	1.33	*		2670	2.5	0.846	*	0.967-0.977
Tri	PCB-26	2.91e+05	0.86	n 28:29	1.29	4.12	R	*	2.5	*	0.979	0.974-0.984
Tri	PCB-25	1.13e+05	1.37	n 28:40	1.34	1.54	R	*	2.5	*	0.985	0.980-0.990
Tri	PCB-31	1.46e+06	1.02	y 29:00	1.42	18.8		*	2.5	*	0.997	0.992-1.002
Tri	PCB-28	1.40e+06	1.06	y 29:06	1.38	18.6		*	2.5	*	1.000	0.996-1.006
Tri	PCB-20/21/33	9.49e+05	1.10	y 29:44	1.31	13.2		*	2.5	*	1.022	1.017-1.027
Tri	PCB-22	6.27e+05	1.00	y 30:09	1.32	8.66		*	2.5	*	1.036	1.032-1.042
Tri	PCB-36	*	*	n NotF	1.38	*		2670	2.5	0.868	*	0.929-0.939
Tri	PCB-39	*	*	n NotF	1.42	*		2670	2.5	0.842	*	0.943-0.953
Tri	PCB-38	*	*	n NotF	1.35	*		2670	2.5	0.882	*	0.967-0.976
Tri	PCB-35	2.79e+05	1.19	y 32:32	1.38	3.89		*	2.5	*	0.987	0.982-0.992
Tri	PCB-37	1.28e+06	1.02	y 32:58	1.39	17.6		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-54	*	*	n NotF	1.20	*		4410	2.5	1.56	*	0.996-1.006
Tetra	PCB-50	*	*	n NotF	0.97	*		4410	2.5	1.94	*	1.037-1.047
Tetra	PCB-53	2.55e+05	0.66	y 29:48	1.19	5.02		*	2.5	*	0.947	0.941-0.951
Tetra	PCB-51	1.08e+05	0.85	y 30:08	1.15	2.18		*	2.5	*	0.957	0.952-0.962
Tetra	PCB-45	1.61e+05	0.69	y 30:34	0.97	3.90		*	2.5	*	0.971	0.966-0.976
Tetra	PCB-46	1.10e+05	0.87	y 31:04	0.95	2.71		*	2.5	*	0.987	0.982-0.992

Integrations by:

Analyst: DMS

Date: 10/28/14

Reviewed by: [signature] Date: 10/28/14

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Tetra	PCB-52/69	7.72e+06	0.76	y 31:29	1.28	141		*	2.5	*	1.000	0.996-1.006
Tetra	PCB-73	*	*	n NotF┐	1.37	*		4410	2.5	1.54	*	1.000-1.010
Tetra	PCB-43/49	1.77e+06	0.77	y 31:47	1.11	37.1		*	2.5	*	1.010	1.005-1.015
Tetra	PCB-47	5.58e+05	0.67	y 32:00	1.13	11.0		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-48/75	2.57e+05	0.85	y 32:07	1.30	4.41		*	2.5	*	1.004	0.999-1.009
Tetra	PCB-65	*	*	n NotF┐	1.33	*		4410	2.5	1.53	*	1.007-1.017
Tetra	PCB-62	*	*	n NotF┐	1.29	*		4410	2.5	1.58	*	1.011-1.021
Tetra	PCB-44	3.26e+06	0.72	y 32:47	0.94	77.6		*	2.5	*	1.025	1.020-1.030
Tetra	PCB-42/59	5.57e+05	0.78	y 33:01	1.22	10.3		*	2.5	*	1.032	1.028-1.038
Tetra	PCB-41/64/71/72	2.55e+06	0.75	y 33:36	1.31	43.5		*	2.5	*	1.051	1.046-1.056
Tetra	PCB-68	*	*	n NotF┐	1.49	*		4410	2.5	1.37	*	1.054-1.064
Tetra	PCB-40	2.73e+05	0.83	y 34:05	0.82	7.46		*	2.5	*	1.066	1.061-1.071
Tetra	PCB-57	*	*	n NotF┐	1.11	*		4410	2.5	1.37	*	0.965-0.975
Tetra	PCB-67	1.78e+05	0.73	y 34:44	1.07	2.75		*	2.5	*	0.979	0.974-0.984
Tetra	PCB-58	*	*	n NotF┐	1.10	*		4410	2.5	1.38	*	0.977-0.987
Tetra	PCB-63	1.72e+05	0.81	y 35:00	1.12	2.55		*	2.5	*	0.986	0.982-0.992
Tetra	PCB-74	2.88e+06	0.77	y 35:17	1.20	39.6		*	2.5	*	0.994	0.990-1.000
Tetra	PCB-61/70	1.35e+07	0.76	y 35:30	1.08	208		*	2.5	*	1.000	0.994-1.004
Tetra	PCB-76/66	4.83e+06	0.79	y 35:42	1.14	70.4		*	2.5	*	1.006	1.001-1.011
Tetra	PCB-80	*	*	n NotF┐	1.28	*		4410	2.5	1.15	*	0.996-1.006
Tetra	PCB-55	2.59e+05	0.71	y 36:13	1.11	3.73		*	2.5	*	1.009	1.005-1.015
Tetra	PCB-56/60	3.12e+06	0.74	y 36:45	1.09	45.8		*	2.5	*	1.024	1.018-1.028
Tetra	PCB-79	5.32e+05	0.78	y 37:49	1.12	7.56		*	2.5	*	1.053	1.048-1.058
Tetra	PCB-78	*	*	n NotF┐	1.24	*		4410	2.5	1.38	*	0.982-0.992
Tetra	PCB-81	1.65e+05	0.72	y 39:01	1.38	2.20		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-77	4.48e+06	0.76	y 39:38	1.21	64.2		*	2.5	*	1.000	0.995-1.005
Penta	PCB-104	*	*	n NotF┐	1.26	*		3030	2.5	1.87	*	0.996-1.006
Penta	PCB-96	*	*	n NotF┐	1.09	*		3030	2.5	2.16	*	1.034-1.044
Penta	PCB-103	1.03e+05	1.41	y 34:26	0.93	2.88		*	2.5	*	1.055	1.050-1.060
Penta	PCB-100	*	*	n NotF┐	1.00	*		3030	2.5	2.35	*	1.061-1.071
Penta	PCB-94	*	*	n NotF┐	1.11	*		3030	2.5	2.80	*	0.981-0.991
Penta	PCB-95/98/102	1.26e+07	1.61	y 35:48	1.21	344		*	2.5	*	1.000	0.994-1.004
Penta	PCB-93	*	*	n NotF┐	1.13	*		3030	2.5	2.74	*	0.998-1.008
Penta	PCB-88/91	1.86e+06	1.71	y 36:12	1.02	60.2		*	2.5	*	1.012	1.006-1.016
Penta	PCB-121	*	*	n NotF┐	1.90	*		3030	2.5	1.63	*	1.009-1.019
Penta	PCB-84/92	6.98e+06	1.61	y 37:07	1.05	198		*	2.5	*	0.991	0.986-0.996
Penta	PCB-89	1.04e+05	1.48	y 37:18	1.02	3.05		*	2.5	*	0.996	0.991-1.001

Analyst: DMS

Date: 10/28/14

Client ID: CC-A-01-20141013-W Filename: 141021E2 S:7 Acq:22-OCT-14 02:33:44 ConCal: ST141021E2-1
Lab ID: 1400762-01 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.013 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Penta	PCB-90/101	2.15e+07	1.55	y 37:29	1.19	541		*	2.5	*	1.000	0.996-1.006
Penta	PCB-113	1.22e+05	1.73	y 37:42	1.35	2.71		*	2.5	*	1.006	1.002-1.012
Penta	PCB-99	7.35e+06	1.56	y 37:49	1.29	170		*	2.5	*	1.009	1.005-1.015
Penta	PCB-119	4.04e+05	1.46	y 38:16	1.72	7.65		*	2.5	*	0.987	0.982-0.992
Penta	PCB-108/112	9.07e+05	1.78	y 38:27	1.29	23.0		*	2.5	*	0.991	0.986-0.996
Penta	PCB-83	*	*	n NotF╗	1.52	*		3030	2.5	1.96	*	0.991-1.001
Penta	PCB-97	6.00e+06	1.58	y 38:48	1.25	157		*	2.5	*	1.000	0.996-1.006
Penta	PCB-86	*	*	n NotF╗	1.02	*		3030	2.5	2.92	*	1.000-1.010
Penta	PCB-87/117/125	1.01e+07	1.58	y 39:05	1.56	212		*	2.5	*	1.008	1.002-1.012
Penta	PCB-111/115	5.14e+05	1.43	y 39:13	1.75	9.57		*	2.5	*	1.011	1.007-1.017
Penta	PCB-85/116	3.17e+06	1.51	y 39:21	1.30	79.4		*	2.5	*	1.015	1.010-1.020
Penta	PCB-120	*	*	n NotF╗	1.78	*		3030	2.5	1.68	*	1.016-1.026
Penta	PCB-110	3.43e+07	1.55	y 39:44	1.68	665		*	2.5	*	1.024	1.020-1.030
Penta	PCB-82	2.19e+06	1.46	y 40:22	0.74	73.8		*	2.5	*	0.976	0.972-0.982
Penta	PCB-124	1.68e+06	1.68	y 41:03	1.32	31.5		*	2.5	*	0.993	0.988-0.998
Penta	PCB-107/109	2.43e+06	1.62	y 41:12	1.22	49.3		*	2.5	*	0.996	0.991-1.001
Penta	PCB-123	4.86e+05	1.56	y 41:22	1.22	9.91		*	2.5	*	1.000	0.995-1.005
Penta	PCB-106/118	3.33e+07	1.58	y 41:32	1.22	649		*	2.5	*	1.000	0.996-1.006
Penta	PCB-114	6.11e+05	1.72	y 42:12	1.36	12.1		*	2.5	*	1.000	0.995-1.005
Penta	PCB-122	3.46e+05	1.51	y 42:20	1.24	7.50		*	2.5	*	1.003	0.999-1.009
Penta	PCB-105	1.32e+07	1.60	y 43:04	1.28	272		*	2.5	*	1.000	0.995-1.005
Penta	PCB-127	*	*	n NotF╗	1.14	*		4680	2.5	3.24	*	0.995-1.005
Penta	PCB-126	7.65e+05	1.78	y 45:20	1.28	17.5		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-155	*	*	n NotF╗	1.14	*		1620	2.5	1.04	*	0.966-1.006
Hexa	PCB-150	4.95e+04	1.18	y 38:18	1.06	1.30		*	2.5	*	1.035	1.030-1.040
Hexa	PCB-152	*	*	n NotF╗	1.10	*		1620	2.5	1.08	*	1.043-1.053
Hexa	PCB-145	*	*	n NotF╗	1.09	*		1620	2.5	1.08	*	1.055-1.065
Hexa	PCB-136	2.76e+06	1.30	y 39:33	1.08	71.2		*	2.5	*	1.069	1.064-1.074
Hexa	PCB-148	*	*	n NotF╗	0.74	*		1620	2.5	1.60	*	1.066-1.076
Hexa	PCB-154	2.75e+05	1.08	y 40:07	0.88	8.71		*	2.5	*	1.084	1.079-1.089
Hexa	PCB-151	3.88e+06	1.26	y 40:47	0.81	134		*	2.5	*	1.102	1.097-1.107
Hexa	PCB-135	2.54e+06	1.19	y 40:59	0.78	91.3		*	2.5	*	1.108	1.101-1.113
Hexa	PCB-144	9.05e+05	1.25	y 41:06	0.82	30.9		*	2.5	*	1.111	1.105-1.116
Hexa	PCB-147	3.76e+05	1.10	y 41:14	0.83	12.7		*	2.5	*	1.114	1.011-1.120
Hexa	PCB-139/149	1.69e+07	1.26	y 41:29	0.84	561		*	2.5	*	1.121	1.115-1.127
Hexa	PCB-140	1.59e+05	1.42	y 41:42	0.79	5.68		*	2.5	*	1.127	1.120-1.132
Hexa	PCB-134/143	1.32e+06	1.18	y 42:09	0.93	39.4		*	2.5	*	0.976	0.970-0.980

Analyst: DMS

Date: 10/28/14

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	7.55e+05	1.28	y	42:25	0.95	22.2		*	2.5	*	0.982	0.977	0.987
Hexa	PCB-131	*	*	n	NotF	0.91	*		4660	2.5	3.90	*	0.981	0.991
Hexa	PCB-146/165	4.61e+06	1.20	y	42:49	1.16	111		*	2.5	*	0.991	0.986	0.996
Hexa	PCB-132/161	8.42e+06	1.27	y	43:06	1.11	210		*	2.5	*	0.998	0.992	1.002
Hexa	PCB-153	3.13e+07	1.25	y	43:14	1.18	737		*	2.5	*	1.001	0.995	1.005
Hexa	PCB-168	*	*	n	NotF	1.37	*		4660	2.5	2.60	*	1.000	1.010
Hexa	PCB-141	6.24e+06	1.20	y	43:59	0.97	181		*	2.5	*	1.000	0.996	1.005
Hexa	PCB-137	1.50e+06	1.22	y	44:22	1.07	39.7		*	2.5	*	1.009	1.004	1.014
Hexa	PCB-130	1.82e+06	1.25	y	44:28	0.85	60.6		*	2.5	*	1.011	1.007	1.017
Hexa	PCB-138/163/164	3.60e+07	1.22	y	44:50	1.23	876		*	2.5	*	1.001	0.996	1.006
Hexa	PCB-158/160	4.40e+06	1.21	y	45:03	1.29	102		*	2.5	*	1.006	1.001	1.011
Hexa	PCB-129	1.36e+06	1.27	y	45:20	0.92	43.8		*	2.5	*	1.012	1.007	1.017
Hexa	PCB-166	1.58e+05	1.30	y	45:49	1.12	3.72		*	2.5	*	0.993	0.988	0.998
Hexa	PCB-159	*	*	n	NotF	1.16	*		4660	2.5	3.05	*	0.995	1.005
Hexa	PCB-128/162	5.43e+06	1.18	y	46:24	1.02	140		*	2.5	*	1.006	1.002	1.012
Hexa	PCB-167	1.87e+06	1.25	y	46:49	1.06	42.5		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-156	3.29e+06	1.26	y	48:08	1.18	72.5		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-157	9.08e+05	1.23	y	48:25	1.08	21.6		*	2.5	*	1.001	0.995	1.005
Hexa	PCB-169	*	*	n	NotF	1.11	*		4660	2.5	4.54	*	0.995	1.005
Hepta	PCB-188	6.59e+04	1.16	y	42:52	1.40	1.47		*	2.5	*	1.001	0.995	1.005
Hepta	PCB-184	*	*	n	NotF	1.24	*		1850	2.5	0.792	*	1.006	1.016
Hepta	PCB-179	3.20e+06	1.08	y	44:06	1.30	76.5		*	2.5	*	1.030	1.024	1.034
Hepta	PCB-176	8.89e+05	1.19	y	44:33	1.36	20.4		*	2.5	*	1.040	1.035	1.045
Hepta	PCB-186	*	*	n	NotF	1.28	*		1850	2.5	0.768	*	1.049	1.059
Hepta	PCB-178	1.22e+06	1.03	y	45:39	0.94	40.7		*	2.5	*	1.066	1.061	1.071
Hepta	PCB-175	2.76e+05	1.03	y	46:01	0.97	8.89		*	2.5	*	1.074	1.069	1.079
Hepta	PCB-182/187	8.28e+06	1.07	y	46:11	1.01	255		*	2.5	*	1.078	1.073	1.083
Hepta	PCB-183	3.31e+06	1.09	y	46:31	1.08	95.5		*	2.5	*	1.086	1.080	1.090
Hepta	PCB-185	6.80e+05	1.15	y	47:11	1.34	24.6		*	2.5	*	0.956	0.951	0.961
Hepta	PCB-174	5.66e+06	1.06	y	47:33	1.34	205		*	2.5	*	0.963	0.958	0.968
Hepta	PCB-181	*	*	n	NotF	1.36	*		1850	2.5	1.26	*	0.961	0.971
Hepta	PCB-177	3.21e+06	0.98	y	47:50	1.24	125		*	2.5	*	0.969	0.964	0.974
Hepta	PCB-171	1.45e+06	1.02	y	48:07	1.31	53.4		*	2.5	*	0.975	0.970	0.980
Hepta	PCB-173	8.64e+04	0.84	n	48:34	1.16	3.61	R	*	2.5	*	0.984	0.979	0.989
Hepta	PCB-172	1.04e+06	1.00	y	49:01	1.22	41.4		*	2.5	*	0.993	0.988	0.998
Hepta	PCB-192	*	*	n	NotF	1.53	*		1850	2.5	1.12	*	0.991	1.001
Hepta	PCB-180	1.25e+07	1.04	y	49:24	1.43	424		*	2.5	*	1.001	0.995	1.005

Analyst: DMS

Date: 10/28/14

Client ID: CC-A-01-20141013-W Filename: 141021E2 S:7 Acq:22-OCT-14 02:33:44 ConCal: ST141021E2-1
Lab ID: 1400762-01 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.013 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	7.88e+05	1.04	y	49:34	1.65	23.1		*	2.5	*	1.004	0.999	1.009
Hepta	PCB-191	2.97e+05	1.06	y	49:48	1.67	8.62		*	2.5	*	1.009	1.004	1.014
Hepta	PCB-170	4.06e+06	1.07	y	50:46	1.50	178		*	2.5	*	1.000	0.995	1.005
Hepta	PCB-190	1.12e+06	1.03	y	50:55	2.02	36.7		*	2.5	*	1.003	0.998	1.008
Hepta	PCB-189	1.86e+05	1.12	y	52:11	1.54	6.86		*	2.5	*	1.000	0.995	1.005
Octa	PCB-202	5.76e+05	0.85	y	48:20	1.04	19.3		*	2.5	*	1.000	0.995	1.005
Octa	PCB-201	3.90e+05	0.88	y	48:49	1.10	12.4		*	2.5	*	1.010	1.006	1.016
Octa	PCB-204	*	*	n	NotFnd	0.99	*		1580	2.5	1.33	*	1.009	1.019
Octa	PCB-197	9.63e+04	0.78	y	49:16	1.07	3.14		*	2.5	*	1.020	1.015	1.025
Octa	PCB-200	2.82e+05	0.98	y	50:04	1.02	9.68		*	2.5	*	1.036	1.032	1.044
Octa	PCB-198	4.90e+04	0.89	y	51:17	0.74	2.30		*	2.5	*	1.061	1.058	1.068
Octa	PCB-199	1.65e+06	0.98	y	51:24	0.73	79.3		*	2.5	*	1.064	1.060	1.070
Octa	PCB-196/203	1.67e+06	0.91	y	51:40	0.77	75.6		*	2.5	*	1.069	1.066	1.076
Octa	PCB-195	4.31e+05	0.88	y	52:49	1.20	29.4		*	2.5	*	0.983	0.979	0.989
Octa	PCB-194	1.14e+06	0.99	y	53:44	1.25	74.8		*	2.5	*	1.000	0.995	1.005
Octa	PCB-205	*	*	n	NotFnd	1.41	*		2480	2.5	5.54	*	1.001	1.011
Nona	PCB-208	1.29e+05	1.23	y	52:57	0.96	7.64		*	2.5	*	1.000	0.995	1.005
Nona	PCB-207	6.57e+04	1.40	y	53:17	0.92	4.07		*	2.5	*	1.007	1.001	1.011
Nona	PCB-206	2.43e+05	1.35	y	55:30	1.03	29.5		*	2.5	*	1.000	0.995	1.005
Deca	PCB-209	*	*	n	NotFnd	1.18	*		835	2.5	7.34	*	0.995	1.005

Analyst: DMS

Date: 10/28/14

	Name	Resp	RA		RT	RRF	Conc	
	Total Mono-PCB	5.25e+05	2.71	y	16:29	1.22	6.01190	
	Total Di-PCB	7.48e+06	1.43	y	20:18	1.21	107.921	
	Total Tri-PCB	2.25e+06	1.11	y	24:20	1.16	39.2695	
	Total Tri-PCB	6.00e+06	1.02	y	29:00	1.35	80.7606	Sum:120.030
	Total Tetra-PCB	4.77e+07	0.66	y	29:48	1.17	792.504	
	Total Penta-PCB	1.46e+08	1.41	y	34:26	1.21	3288.39	
	Total Penta-PCB	1.49e+07	1.72	y	42:12	1.26	308.767	Sum:3597.16
	Total Hexa-PCB	2.79e+07	1.18	y	38:18	0.92	916.545	
	Total Hexa-PCB	1.09e+08	1.18	y	42:09	1.08	2701.94	Sum:3618.49
	Total Hepta-PCB	4.82e+07	1.16	y	42:52	1.27	1625.98	
	Total Octa-PCB	4.72e+06	0.85	y	48:20	0.92	201.679	
	Total Octa-PCB	1.57e+06	0.88	y	52:49	1.29	104.137	Sum:305.816
	Total Nona-PCB	4.38e+05	1.23	y	52:57	0.96	41.1757	
-	Total Deca-PCB	*	*	n	NotFnd	1.18	*	

-

Total PCB Conc:10224.3554440

Integrations
by
Analyst: DMS

Date: 12/28/14

Client ID: CC-A-01-20141013-W Filename: 141021E2 S:7 Acq:22-OCT-14 02:33:44 ConCal: ST141021E2-1
Lab ID: 1400762-01 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0131 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.38e+08	3.16 y	0.89	16:29	0.634	0.622	0.628	1970	99.9
13C-PCB-3	1.42e+08	3.22 y	0.93	18:59	0.730	0.721	0.729	1940	98.4
13C-PCB-4	6.57e+07	1.59 y	0.55	20:17	0.780	0.772	0.780	1520	77.1
13C-PCB-9	1.04e+08	1.57 y	0.83	22:00	0.846	0.840	0.848	1590	80.6
13C-PCB-11	1.20e+08	1.56 y	0.94	25:18	0.973	0.968	0.978	1630	82.6
13C-PCB-19	8.00e+07	1.08 y	0.53	24:19	0.935	0.929	0.939	1910	96.6
13C-PCB-28	1.08e+08	1.04 y	0.89	29:06	1.004	0.999	1.009	1720	87.3
13C-PCB-32	1.21e+08	1.07 y	0.81	27:10	1.045	1.041	1.051	1890	95.9
13C-PCB-37	1.03e+08	1.03 y	0.83	32:57	1.137	1.131	1.143	1750	88.8
13C-PCB-47	8.82e+07	0.79 y	0.74	31:59	0.871	0.867	0.875	1570	79.4
13C-PCB-52	8.46e+07	0.79 y	0.71	31:29	0.857	0.853	0.861	1580	80.0
13C-PCB-54	9.60e+07	0.79 y	0.85	28:01	0.763	0.758	0.766	1490	75.7
13C-PCB-70	1.19e+08	0.79 y	0.94	35:29	0.966	0.961	0.971	1670	84.5
13C-PCB-77	1.14e+08	0.79 y	0.89	39:37	1.078	1.073	1.083	1690	85.4
13C-PCB-80	1.24e+08	0.79 y	0.96	35:54	0.977	0.972	0.982	1700	86.1
13C-PCB-81	1.07e+08	0.78 y	0.84	39:01	1.062	1.057	1.067	1690	85.7
13C-PCB-95	5.97e+07	1.66 y	0.74	35:47	0.913	0.908	0.918	1570	79.7
13C-PCB-97	6.06e+07	1.64 y	0.69	38:47	0.989	0.984	0.994	1720	87.2
13C-PCB-101	6.61e+07	1.63 y	0.79	37:28	0.956	0.951	0.961	1650	83.5
13C-PCB-104	7.55e+07	1.64 y	1.00	32:38	0.832	0.829	0.837	1490	75.3
13C-PCB-105	7.47e+07	1.59 y	1.24	43:04	0.928	0.924	0.934	1720	86.9
13C-PCB-114	7.35e+07	1.59 y	1.21	42:12	0.910	0.905	0.915	1730	87.7
13C-PCB-118	8.27e+07	1.63 y	0.98	41:32	1.060	1.054	1.064	1650	83.4
13C-PCB-123	7.95e+07	1.61 y	0.95	41:21	1.055	1.049	1.059	1640	83.1
13C-PCB-126	6.74e+07	1.57 y	1.16	45:20	0.977	0.972	0.982	1650	83.5
13C-PCB-127	8.02e+07	1.56 y	1.34	43:24	0.936	0.931	0.941	1700	86.1
13C-PCB-138	6.62e+07	1.27 y	1.04	44:48	0.966	0.961	0.971	1800	91.3
13C-PCB-141	6.97e+07	1.25 y	1.07	43:58	0.948	0.943	0.953	1850	93.7
13C-PCB-153	7.11e+07	1.28 y	1.11	43:12	0.931	0.927	0.937	1820	92.0
13C-PCB-155	7.06e+07	1.28 y	0.83	37:00	0.944	0.939	0.949	1660	84.3
13C-PCB-156	7.57e+07	1.24 y	1.24	48:07	1.037	1.032	1.042	1730	87.6
13C-PCB-157	7.67e+07	1.29 y	1.31	48:23	1.043	1.037	1.047	1660	84.1
13C-PCB-159	7.53e+07	1.26 y	1.20	46:07	0.994	0.989	0.999	1780	90.4
13C-PCB-167	8.18e+07	1.26 y	1.32	46:48	1.009	1.004	1.014	1760	89.1
13C-PCB-169	6.34e+07	1.27 y	1.22	50:26	1.087	1.082	1.092	1480	75.2
13C-PCB-170	3.00e+07	0.46 y	0.54	50:45	1.094	1.089	1.101	1590	80.5
13C-PCB-180	4.07e+07	0.46 y	0.67	49:22	1.064	1.059	1.069	1720	86.9
13C-PCB-188	6.32e+07	0.44 y	0.94	42:50	0.923	0.919	0.929	1920	97.3
13C-PCB-189	3.48e+07	0.44 y	0.72	52:12	1.125	1.120	1.132	1380	70.0
13C-PCB-194	2.41e+07	0.89 y	0.81	53:44	0.994	0.990	1.000	1780	90.4
13C-PCB-202	5.65e+07	0.90 y	0.83	48:19	1.042	1.036	1.046	1930	97.7
13C-PCB-206	1.58e+07	0.78 y	0.66	55:30	1.027	1.021	1.031	1440	72.9
13C-PCB-208	3.47e+07	0.77 y	1.12	52:56	0.980	0.976	0.986	1850	93.8
13C-PCB-209	1.37e+07	1.17 y	0.61	56:47	1.051	1.044	1.054	1340	67.8

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.36e+08	0.80 y	1.01	37:47	1.029	1.023	1.033	1790	90.6
13C-PCB-178	4.28e+07	0.46 y	0.63	45:39	0.984	0.979	0.989	1930	97.7

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.36e+08	0.80 y	1.20	37:47	0.968	0.963	0.973	2090	106
13C-PCB-178	4.28e+07	0.46 y	0.94	45:39	0.925	0.920	0.930	2220	112

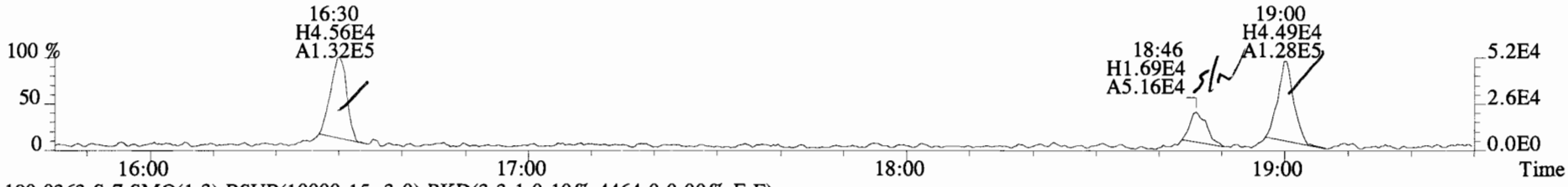
RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	1.56e+08	1.56	y	1.00	26:00	1970
13C-PCB-31	1.40e+08	1.05	y	1.00	28:59	1970
13C-PCB-60	1.49e+08	0.77	y	1.00	36:44	1970
13C-PCB-111	1.01e+08	1.60	y	1.00	39:12	1970
13C-PCB-128	6.95e+07	1.28	y	1.00	46:23	1970
13C-PCB-205	3.30e+07	0.88	y	1.00	54:02	1970

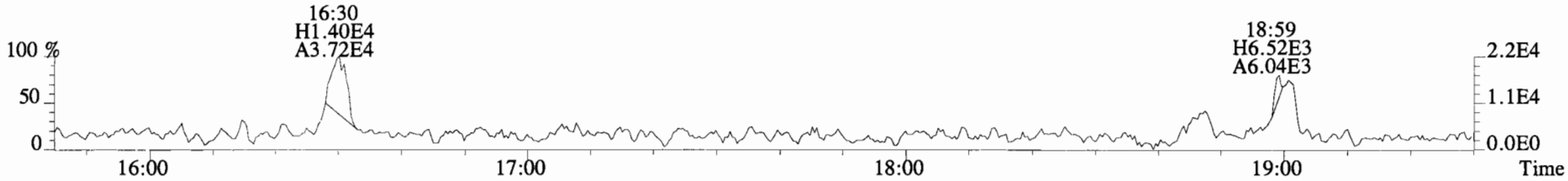
Analyst: DMS

Date: 10/27/14

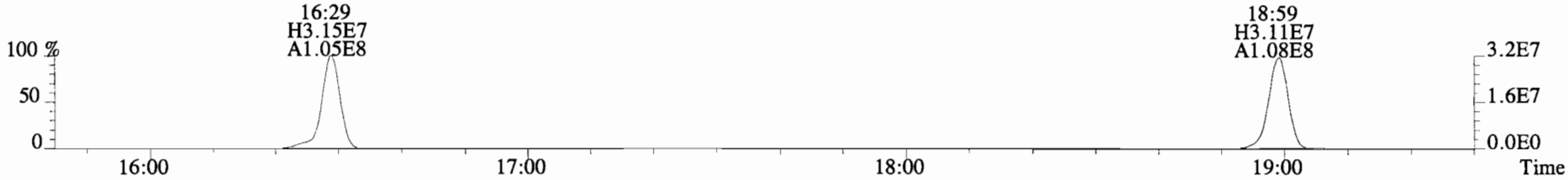
File:141021E2 #1-728 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
188.0393 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3348.0,0.00%,F,F)



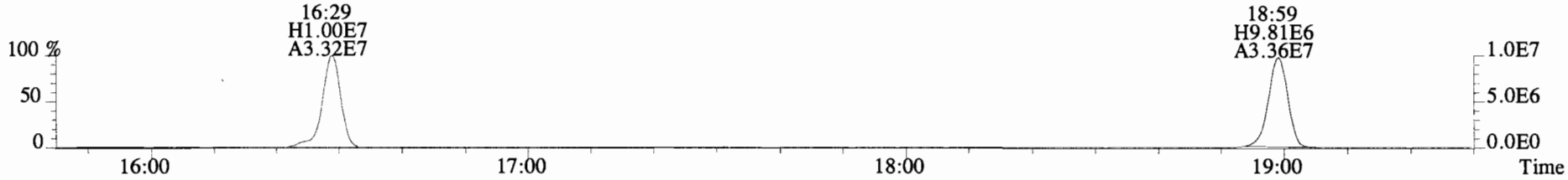
190.0363 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4464.0,0.00%,F,F)



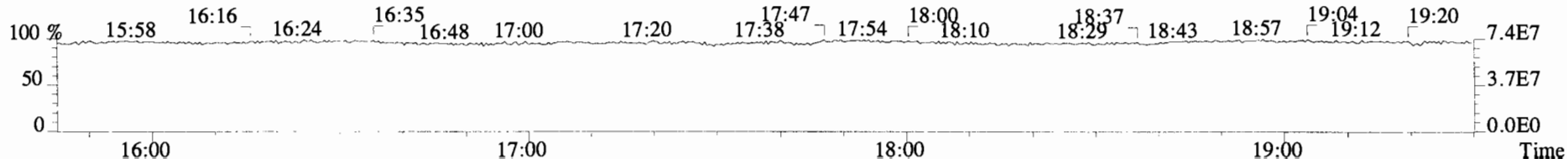
200.0795 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5560.0,0.00%,F,F)



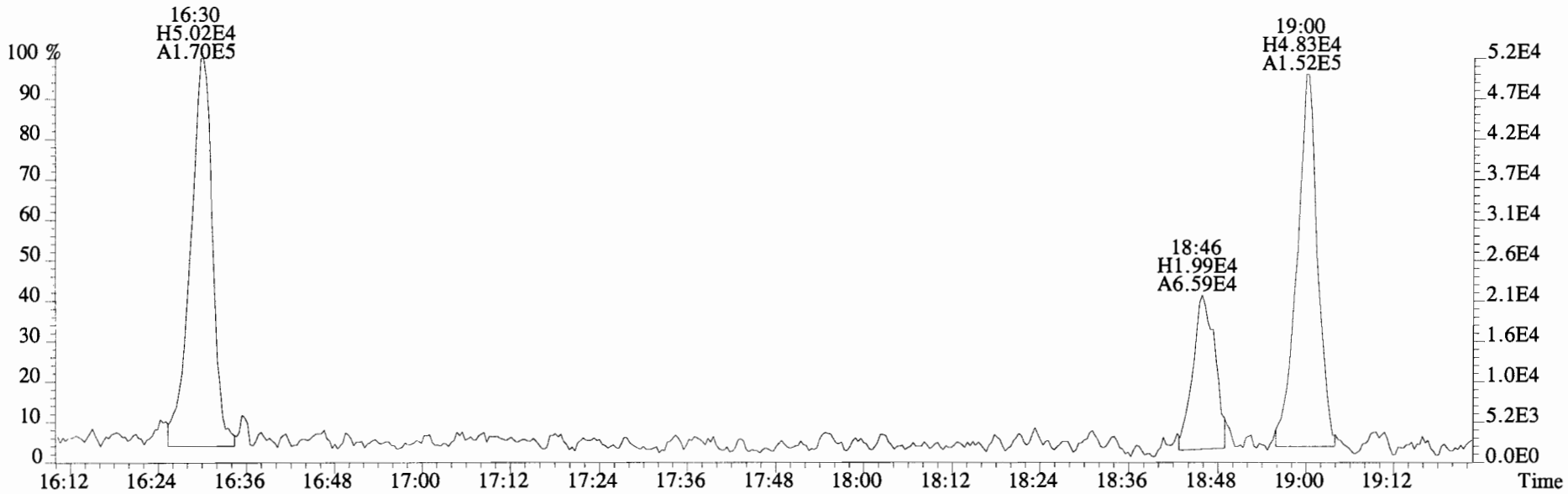
202.0766 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,69356.0,0.00%,F,F)



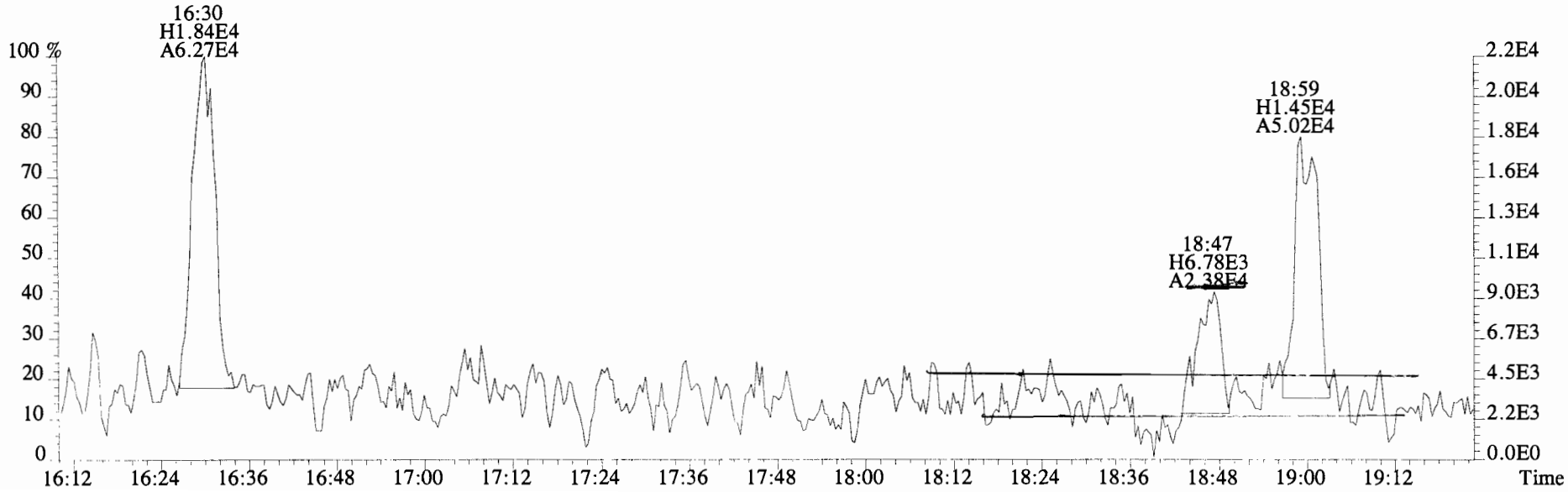
180.9880 S:7



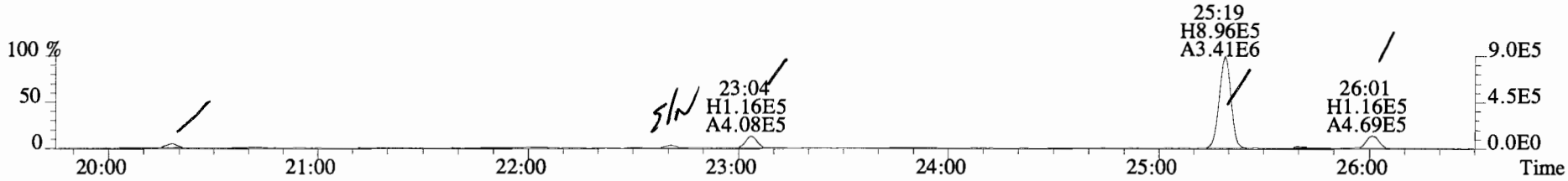
File:141021E2 #1-728 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
188.0393 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3348.0,0.00%,F,F)



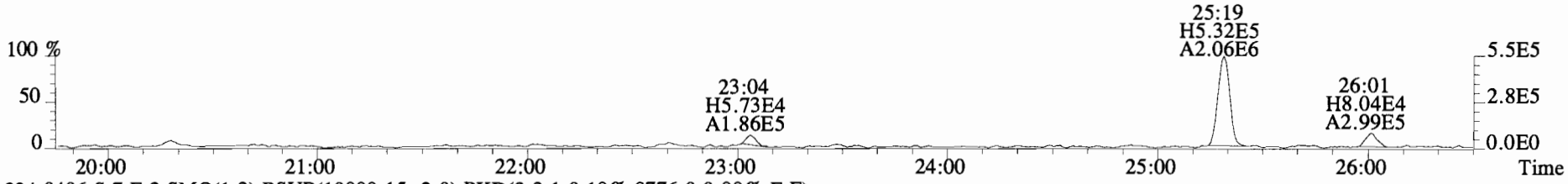
190.0363 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4464.0,0.00%,F,F)



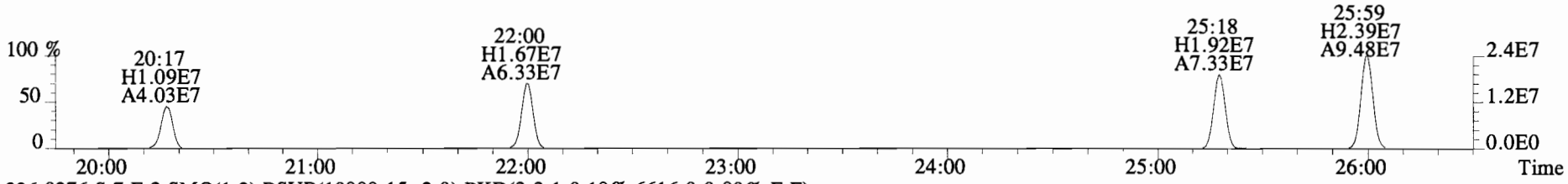
File:141021E2 #1-758 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
222.0003 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4032.0,0.00%,F,F)



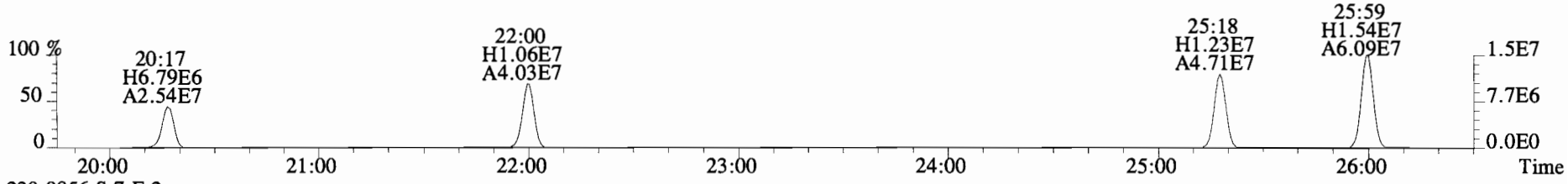
223.9974 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15856.0,0.00%,F,F)



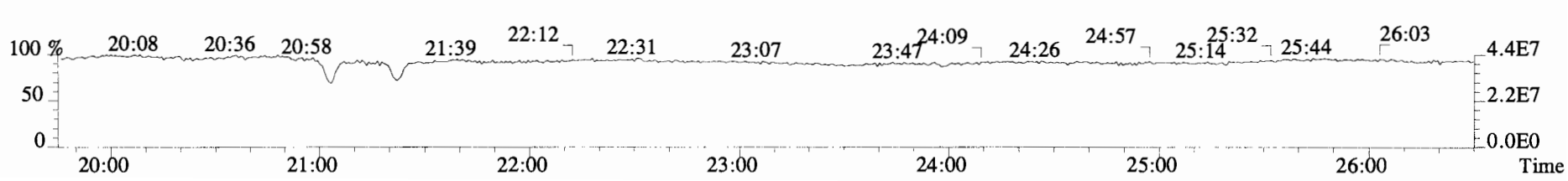
234.0406 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8776.0,0.00%,F,F)



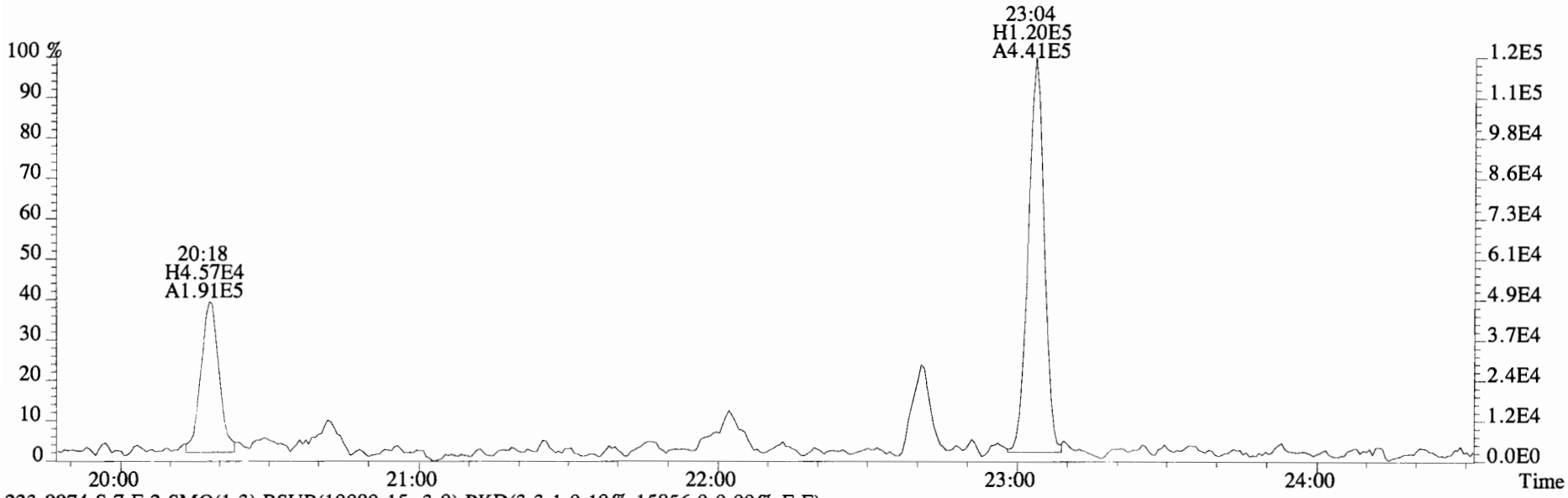
236.0376 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6616.0,0.00%,F,F)



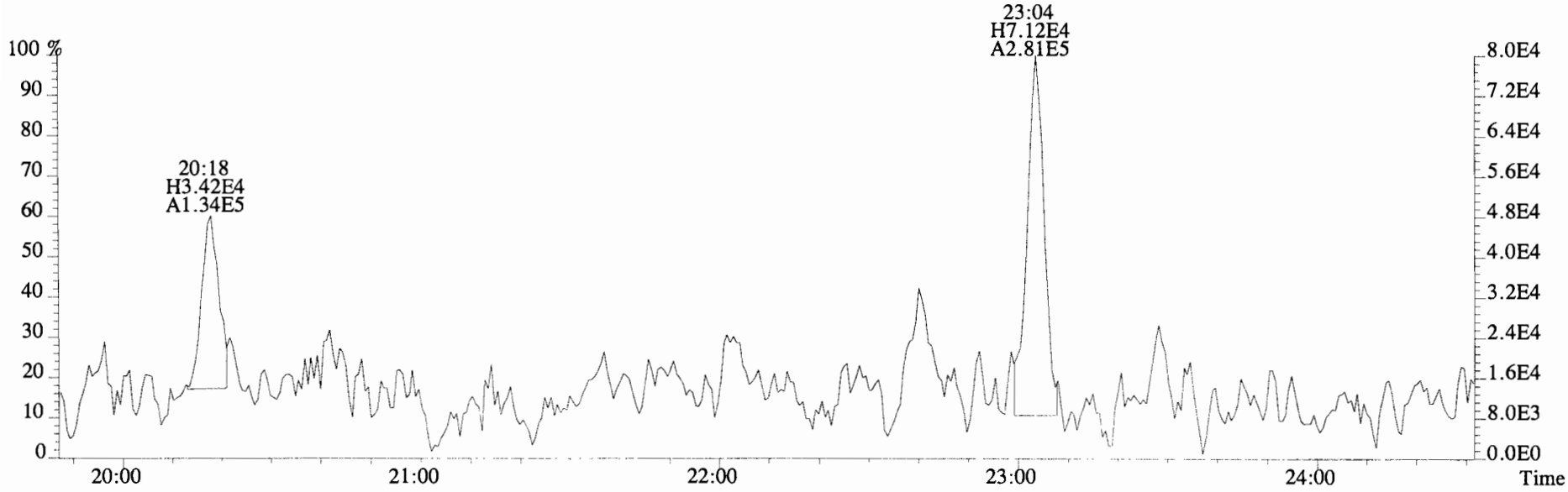
230.9856 S:7 F:2



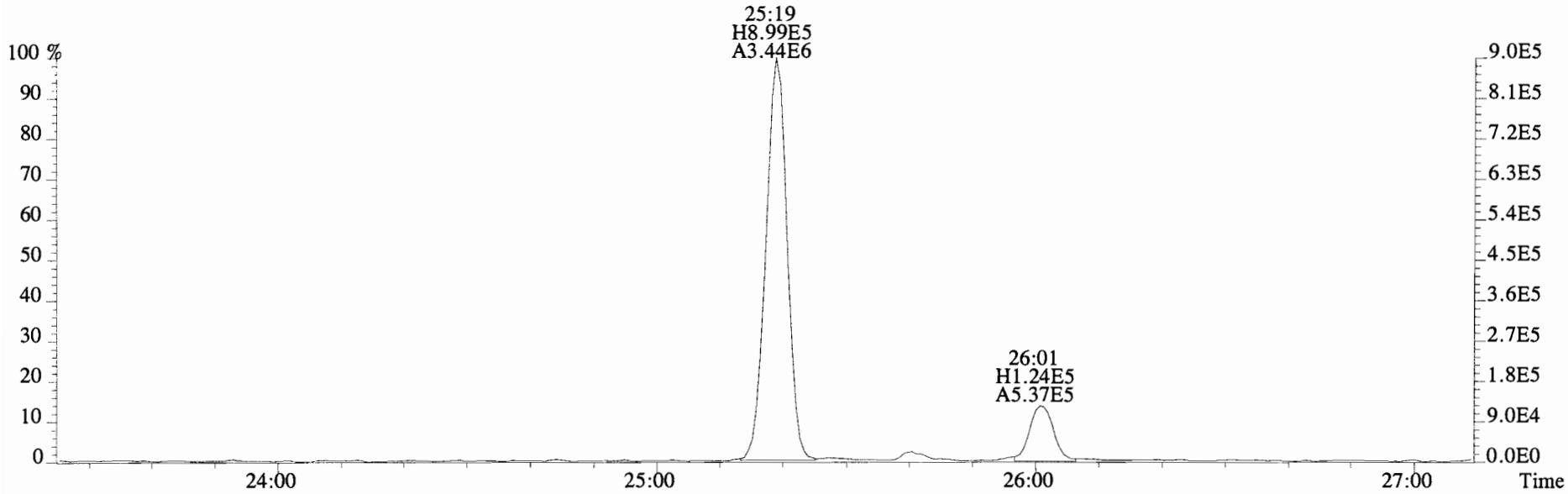
File:141021E2 #1-758 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
222.0003 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4032.0,0.00%,F,F)



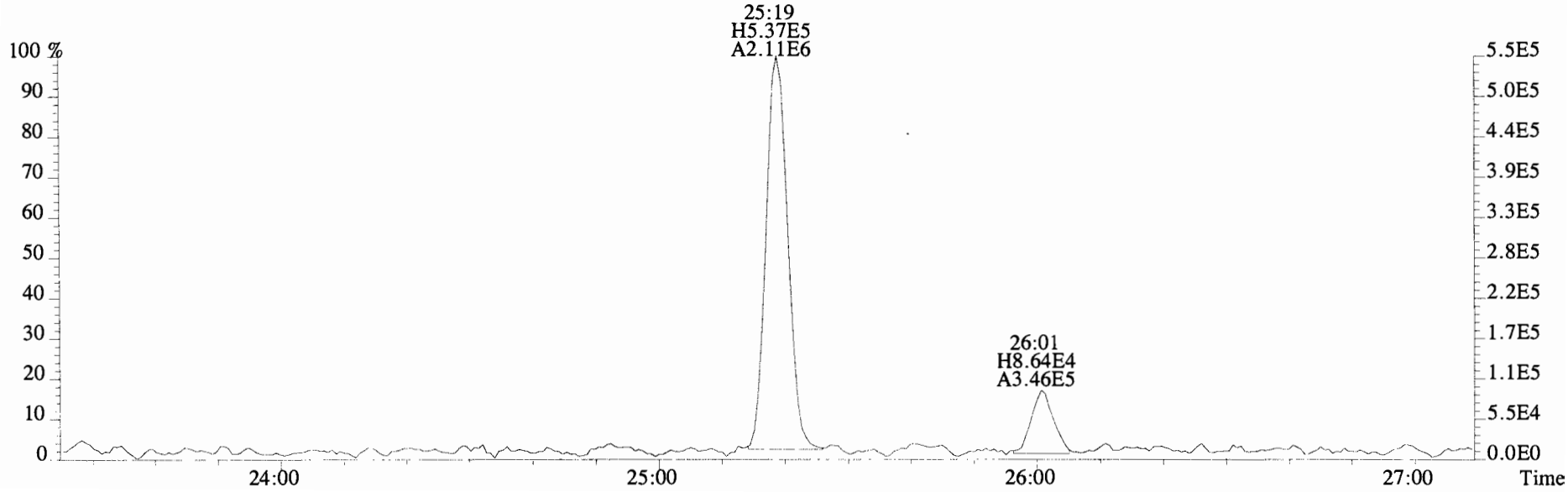
223.9974 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15856.0,0.00%,F,F)



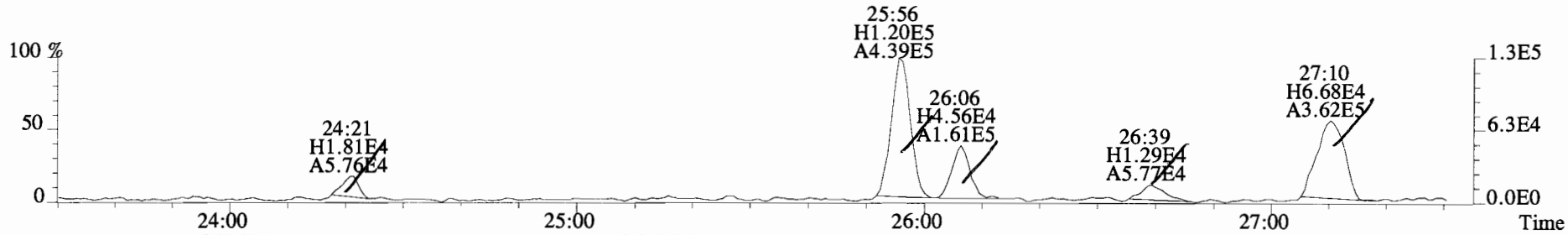
File:141021E2 #1-758 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
222.0003 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4032.0,0.00%,F,F)



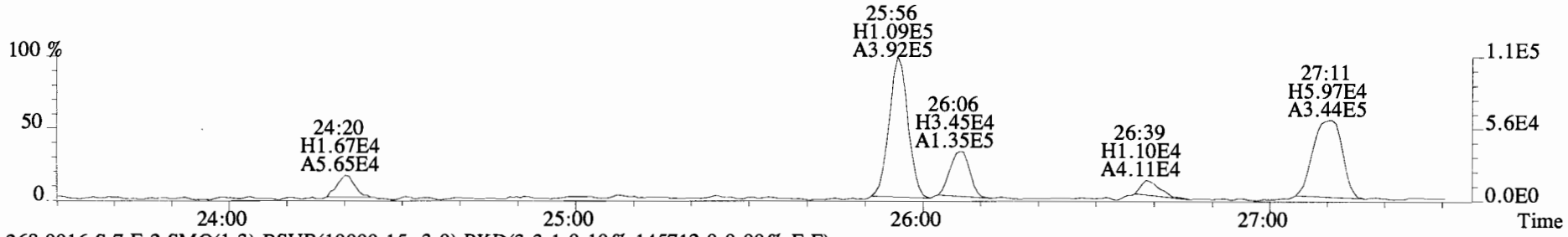
223.9974 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15856.0,0.00%,F,F)



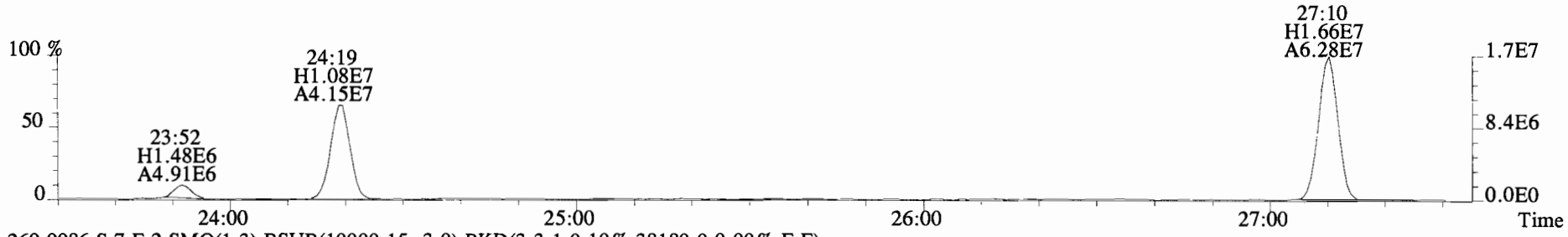
File:141021E2 #1-758 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
255.9613 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3892.0,0.00%,F,F)



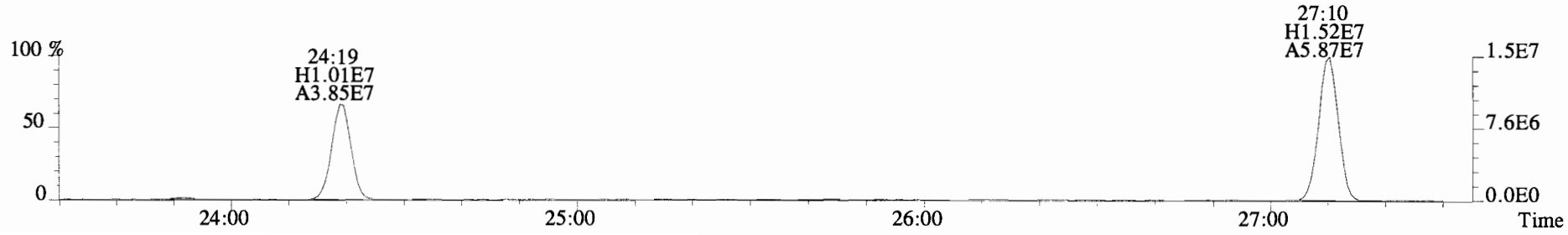
257.9584 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2524.0,0.00%,F,F)

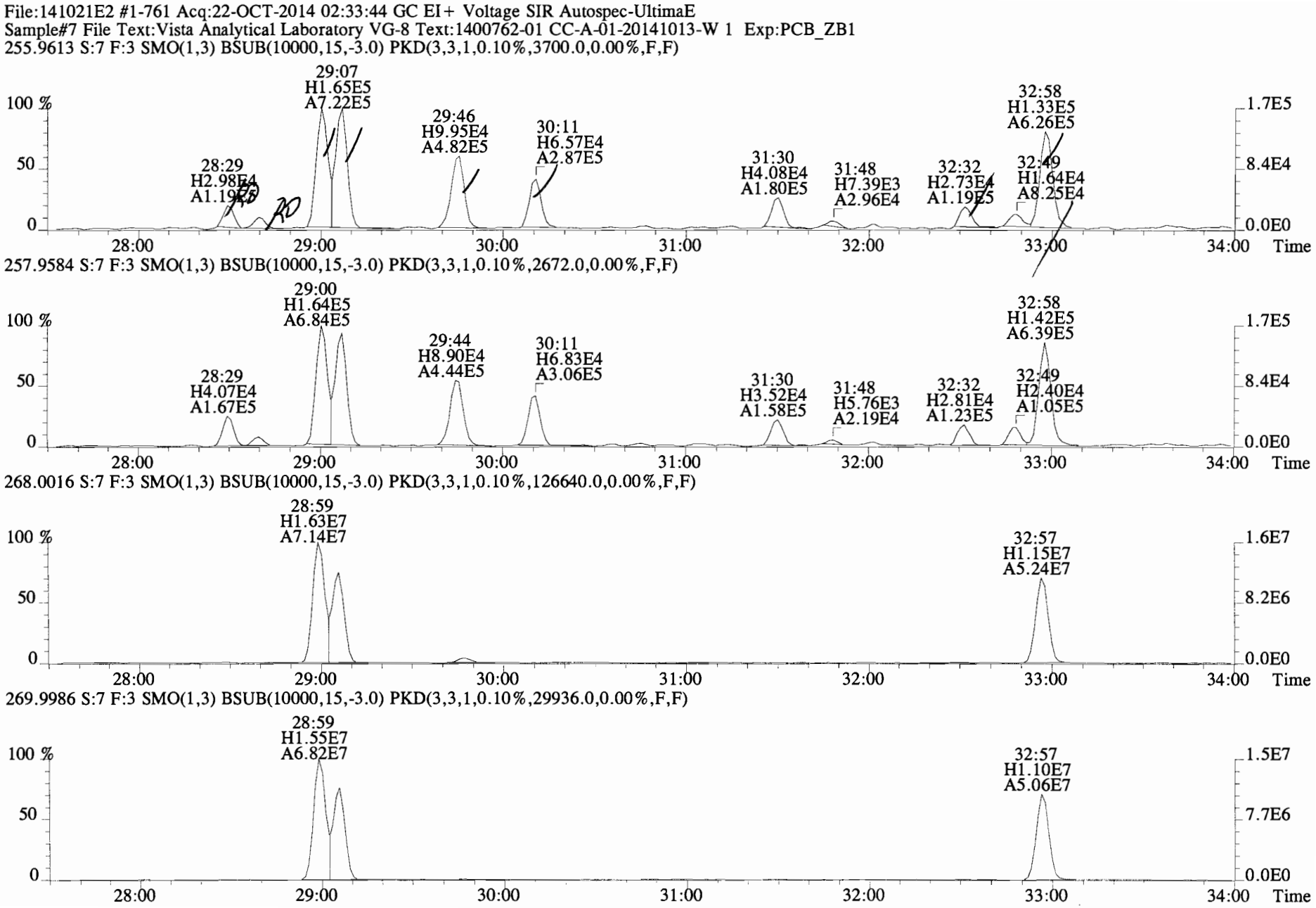


268.0016 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,145712.0,0.00%,F,F)

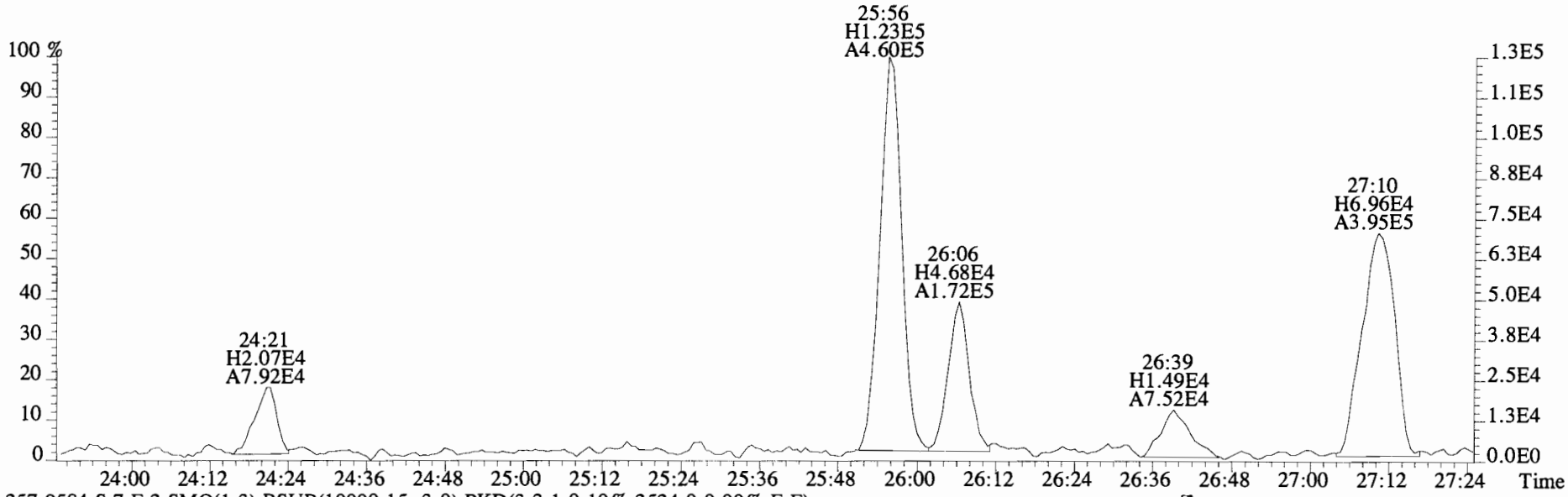


269.9986 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,38180.0,0.00%,F,F)

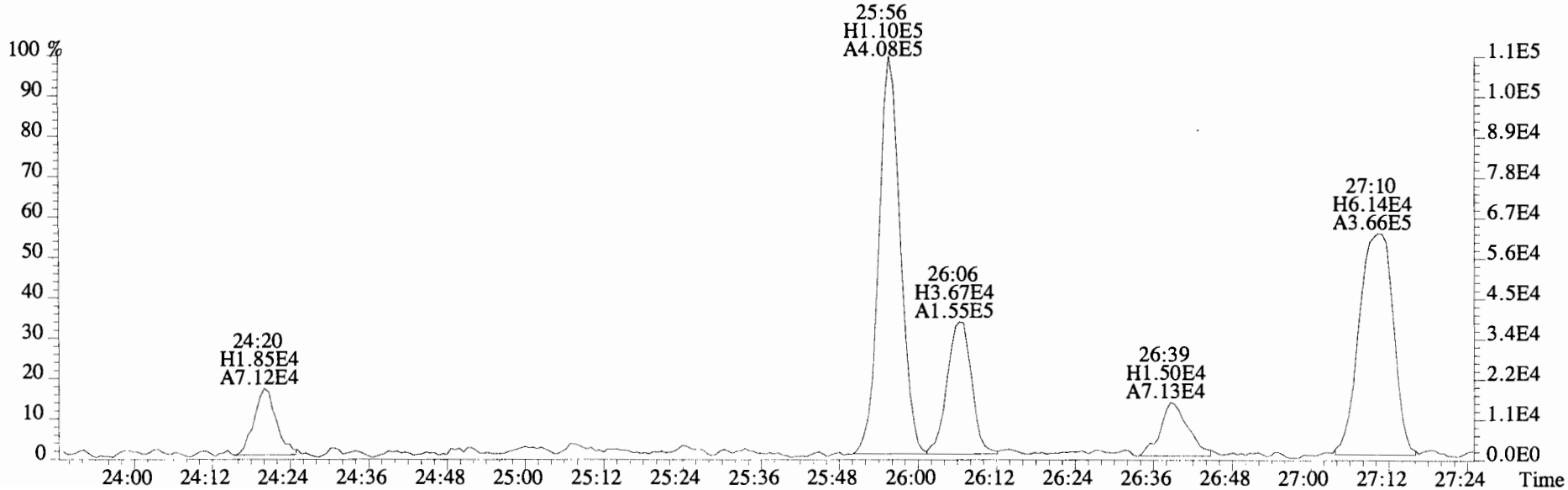



File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
255.9613 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3700.0,0.00%,F,F)
29:07 H1.65E5 A7.22E5
29:46 H9.95E4 A4.82E5
30:11 H6.57E4 A2.87E5
28:29 H2.98E4 A1.19E5
31:30 H4.08E4 A1.80E5
31:48 H7.39E3 A2.96E4
32:32 H2.73E4 A1.19E5
32:58 H1.33E5 A6.26E5
32:49 H1.64E4 A8.25E4
257.9584 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2672.0,0.00%,F,F)
29:00 H1.64E5 A6.84E5
29:44 H8.90E4 A4.44E5
30:11 H6.83E4 A3.06E5
28:29 H4.07E4 A1.67E5
31:30 H3.52E4 A1.58E5
31:48 H5.76E3 A2.19E4
32:32 H2.81E4 A1.23E5
32:58 H1.42E5 A6.39E5
32:49 H2.40E4 A1.05E5
268.0016 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,126640.0,0.00%,F,F)
28:59 H1.63E7 A7.14E7
32:57 H1.15E7 A5.24E7
269.9986 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,29936.0,0.00%,F,F)
28:59 H1.55E7 A6.82E7
32:57 H1.10E7 A5.06E7
100 %
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
Time
1.7E5
8.4E4
0.0E0
1.6E7
8.2E6
1.5E7
7.7E6

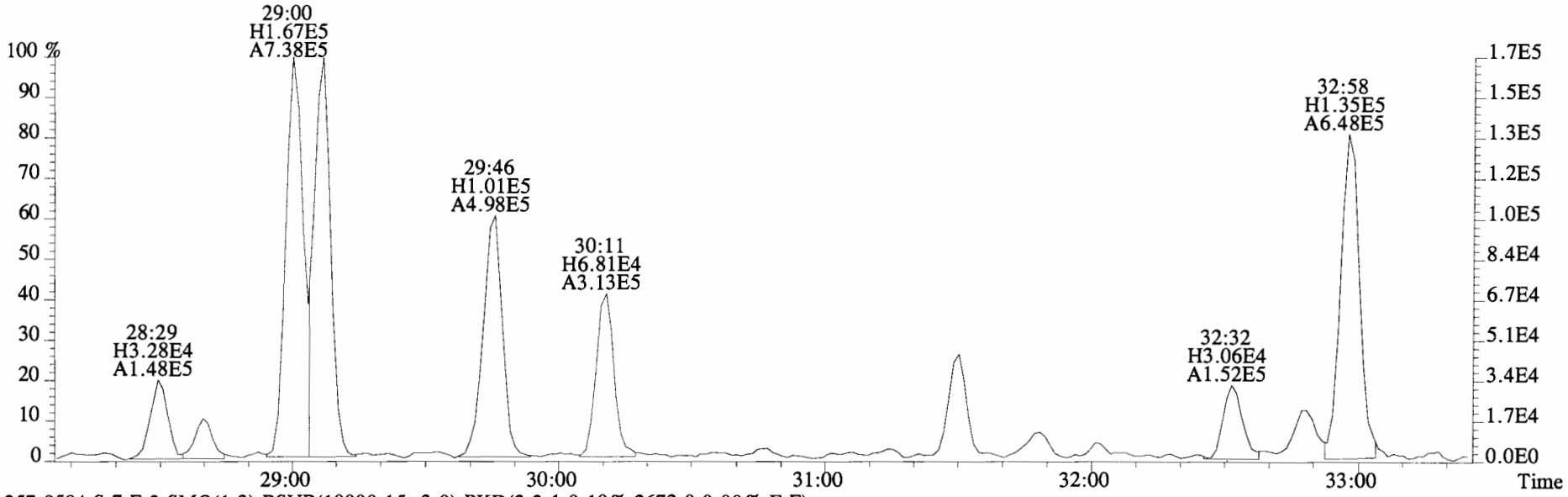
File:141021E2 #1-758 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
255.9613 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3892.0,0.00%,F,F)



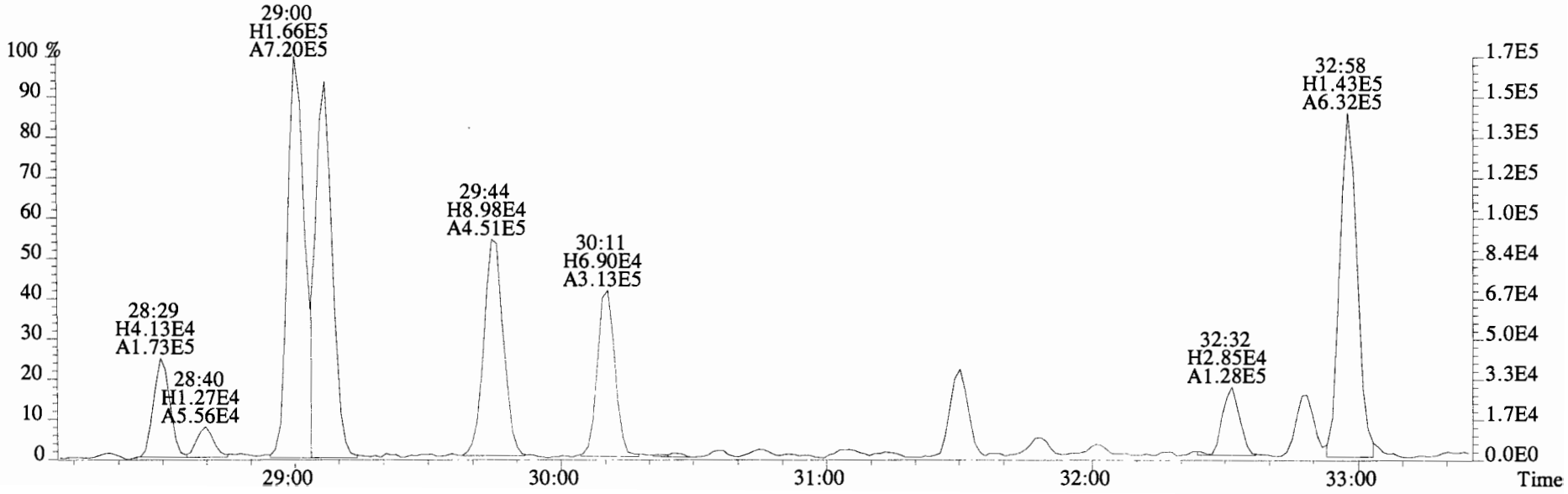
257.9584 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2524.0,0.00%,F,F)



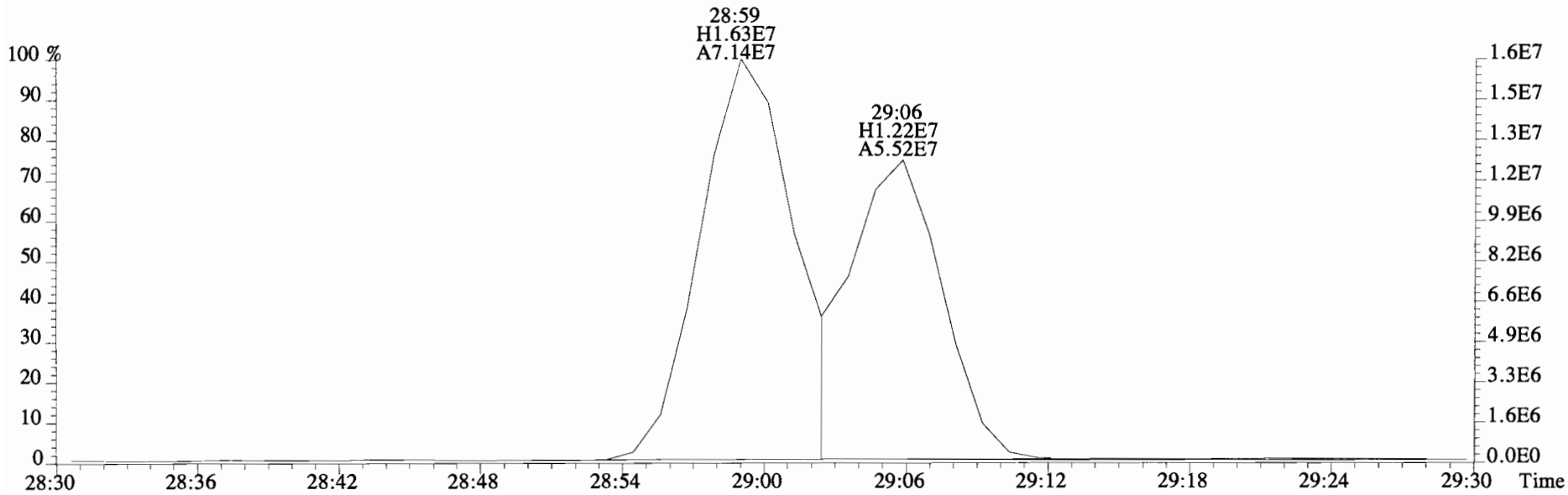
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
255.9613 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3700.0,0.00%,F,F)



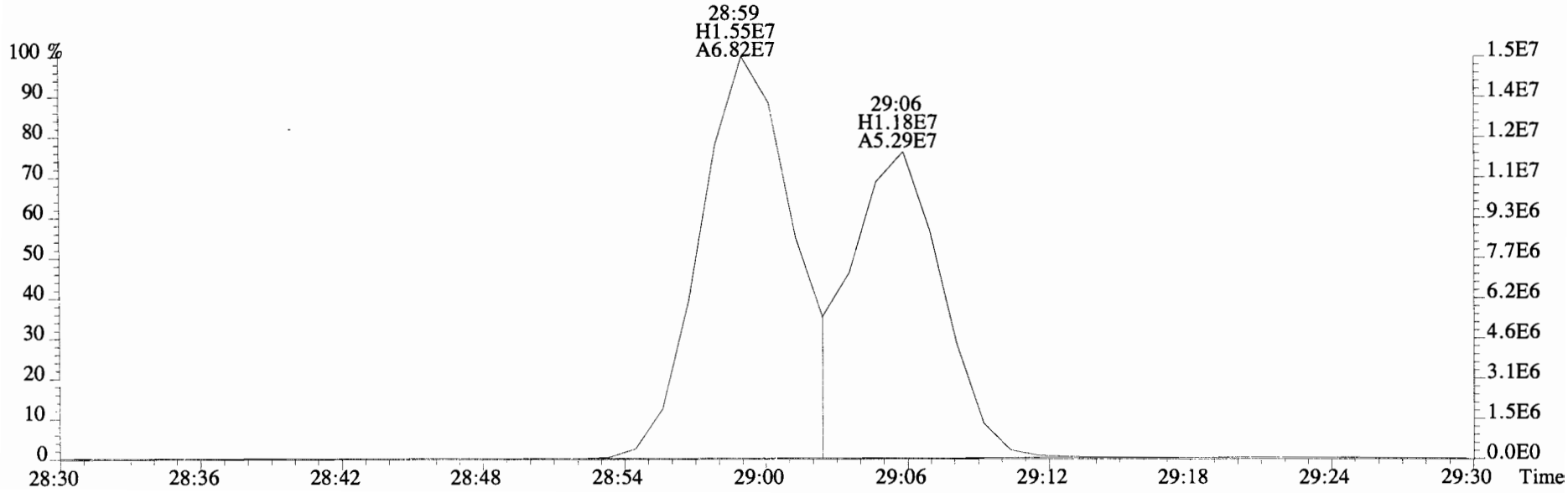
257.9584 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2672.0,0.00%,F,F)



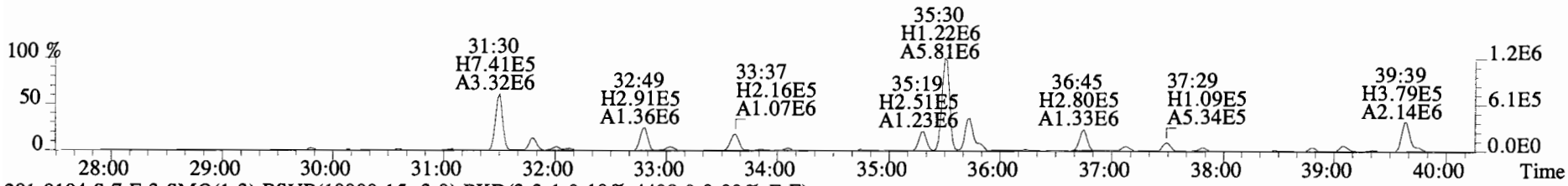
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
268.0016 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,126640.0,0.00%,F,F)



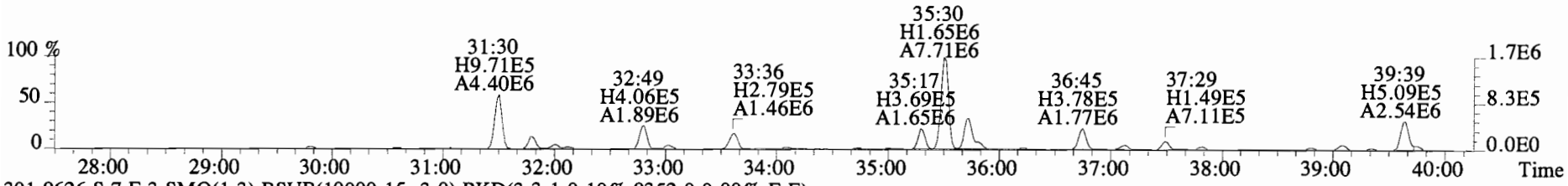
269.9986 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,29936.0,0.00%,F,F)



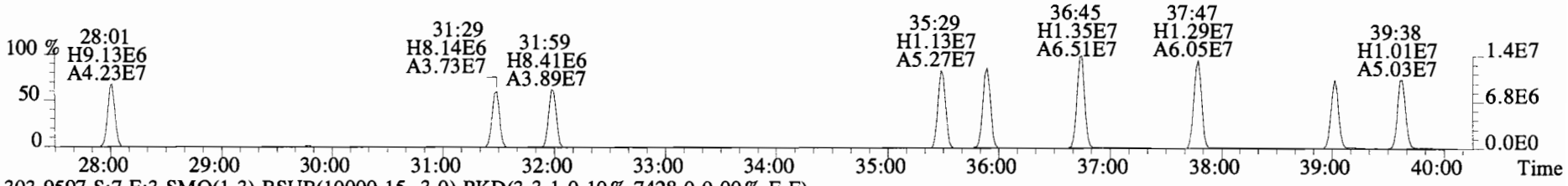
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2992.0,0.00%,F,F)



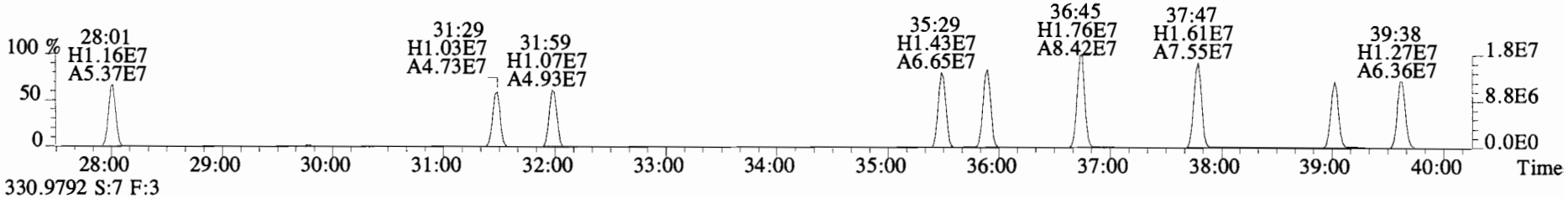
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4408.0,0.00%,F,F)



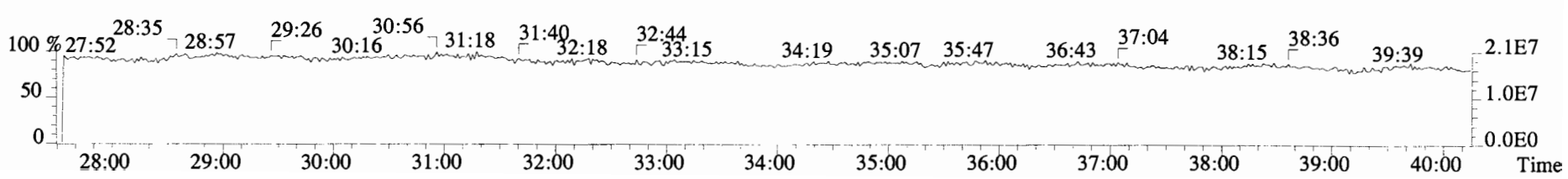
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9352.0,0.00%,F,F)



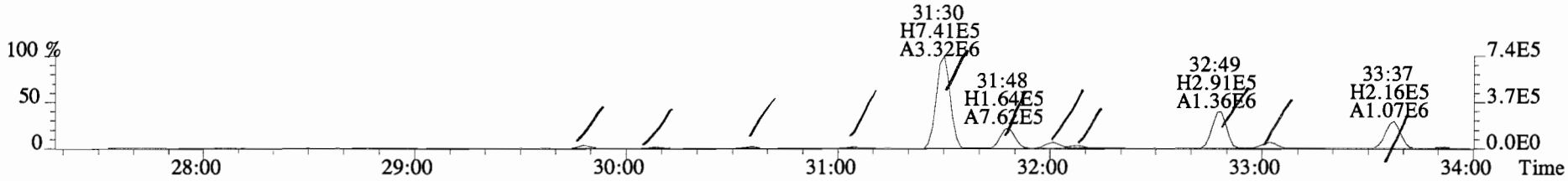
303.9597 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7428.0,0.00%,F,F)



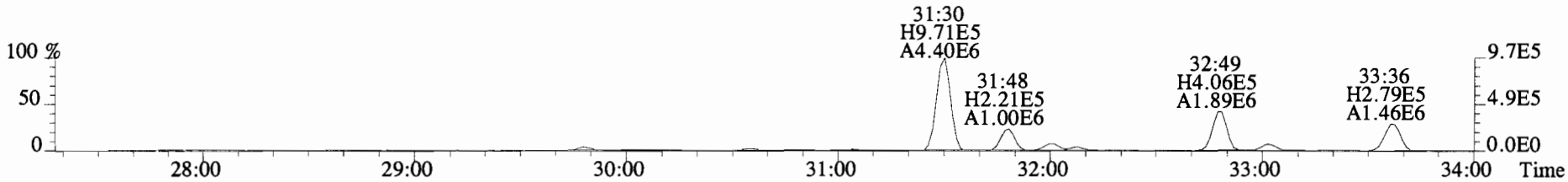
330.9792 S:7 F:3



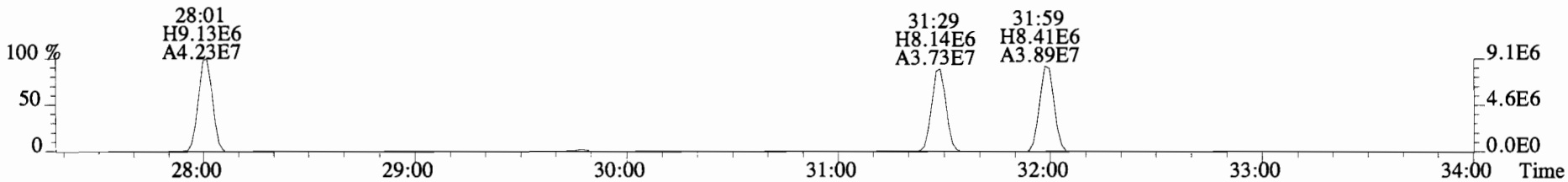
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2992.0,0.00%,F,F)



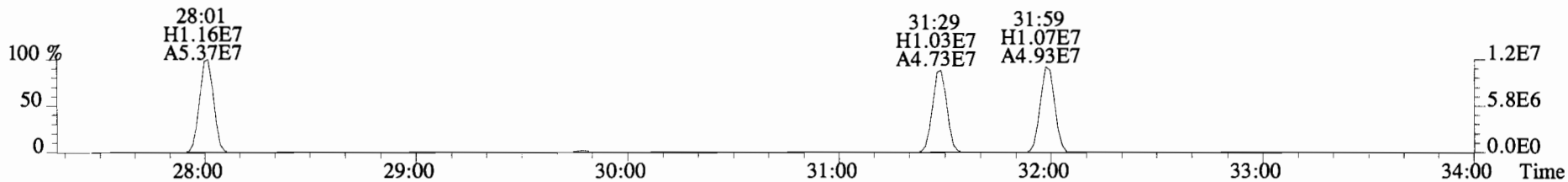
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4408.0,0.00%,F,F)



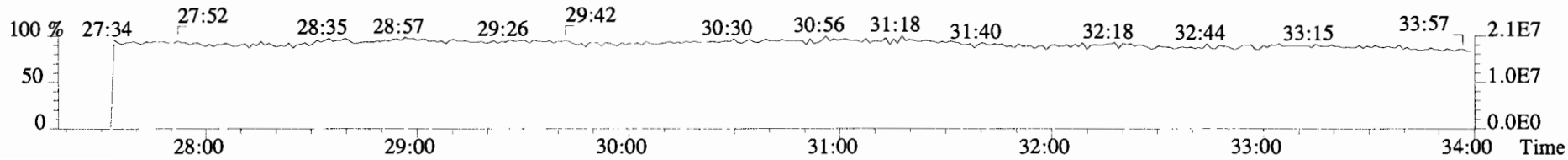
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9352.0,0.00%,F,F)



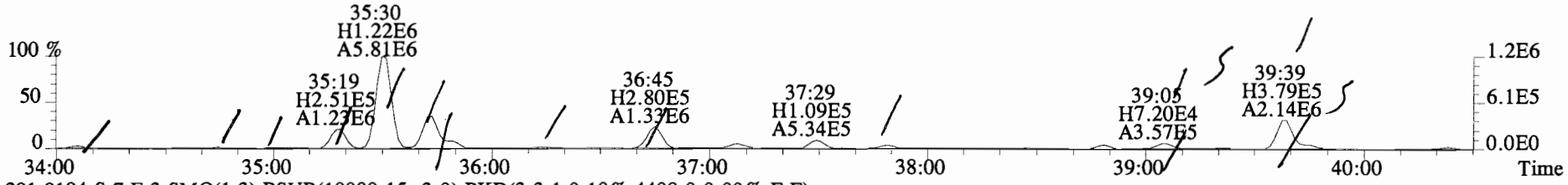
303.9597 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7428.0,0.00%,F,F)



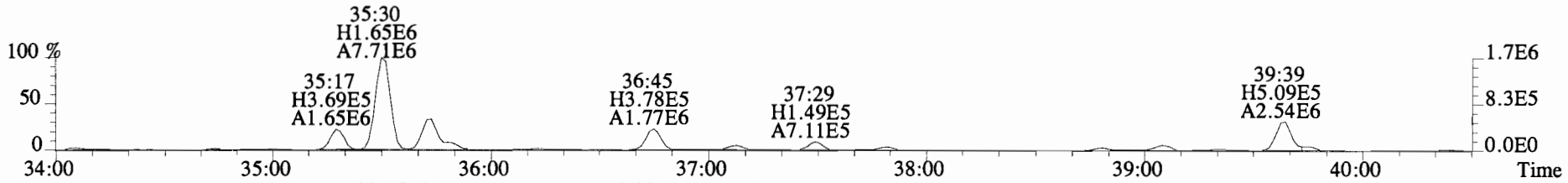
330.9792 S:7 F:3



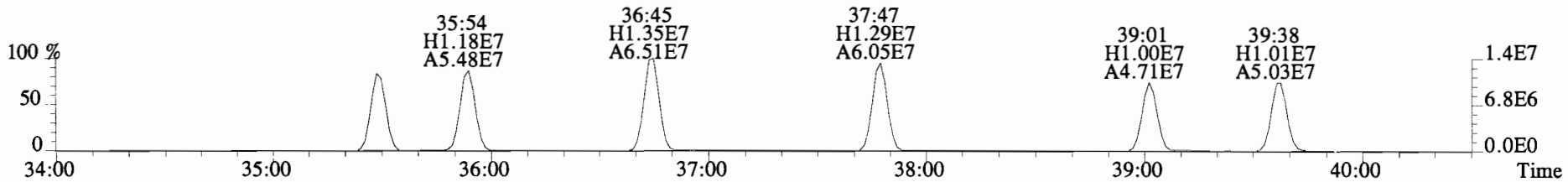
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2992.0,0.00%,F,F)



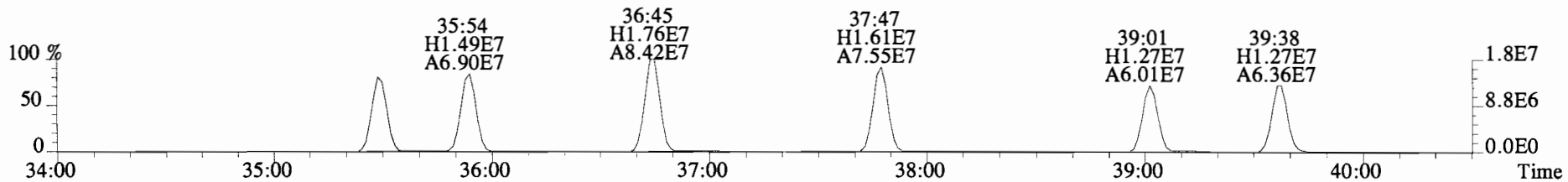
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4408.0,0.00%,F,F)



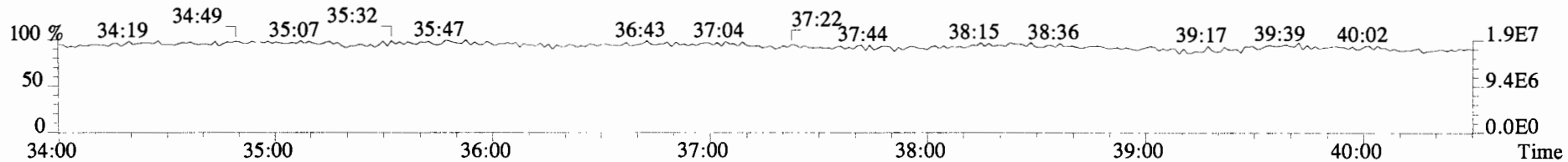
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9352.0,0.00%,F,F)



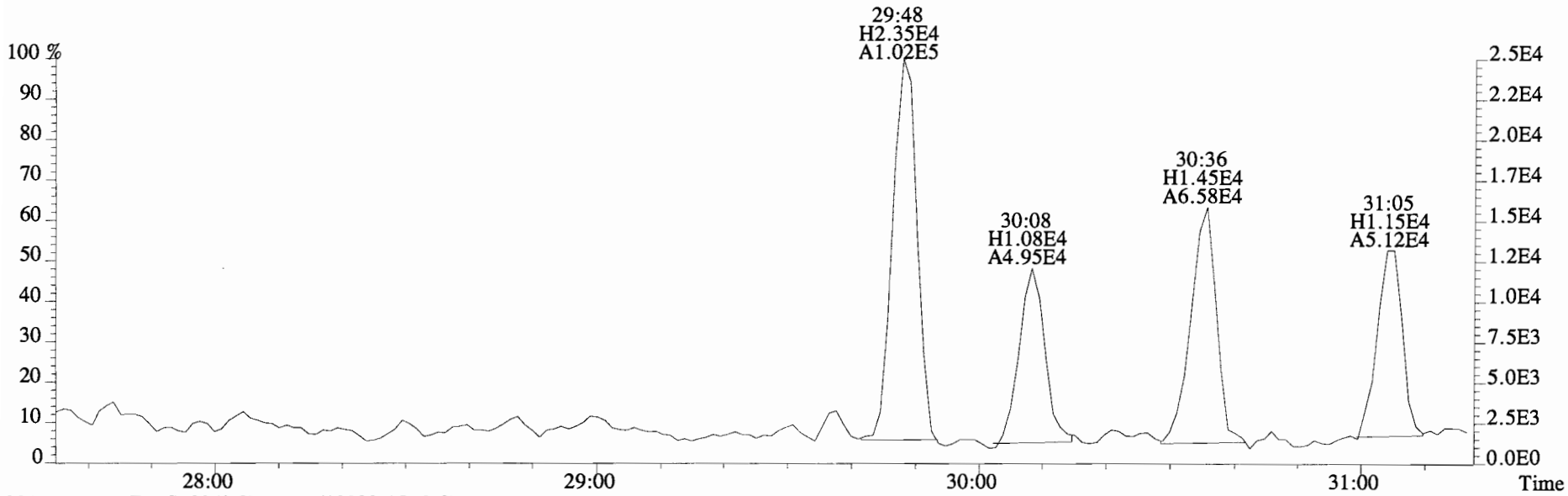
303.9597 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7428.0,0.00%,F,F)



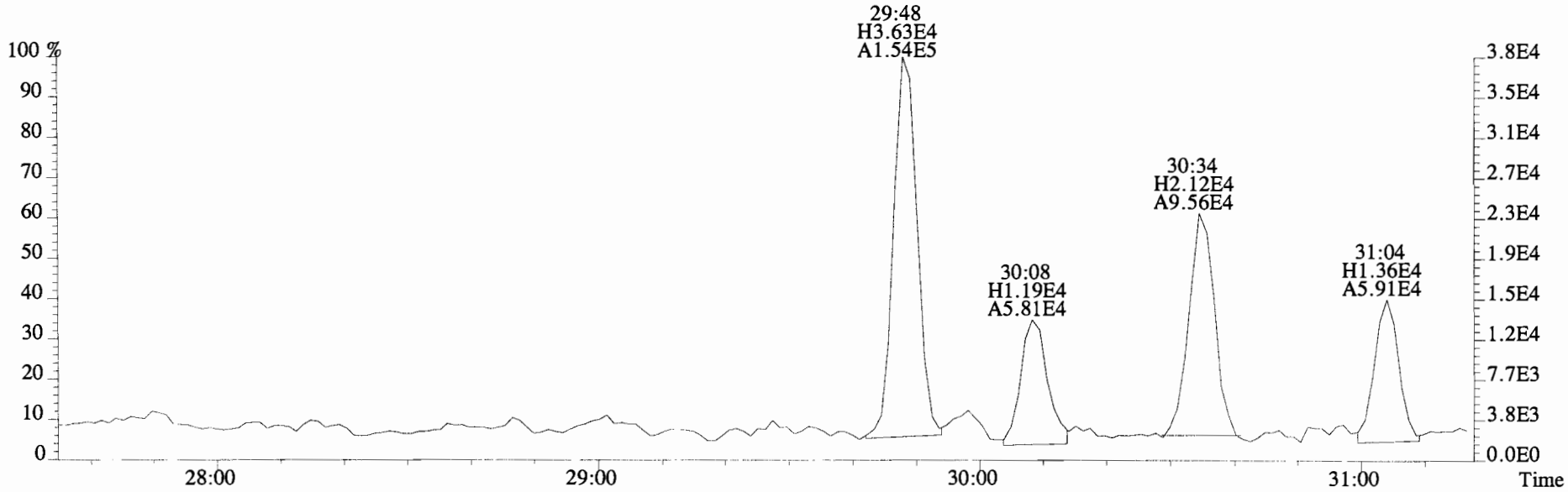
330.9792 S:7 F:3



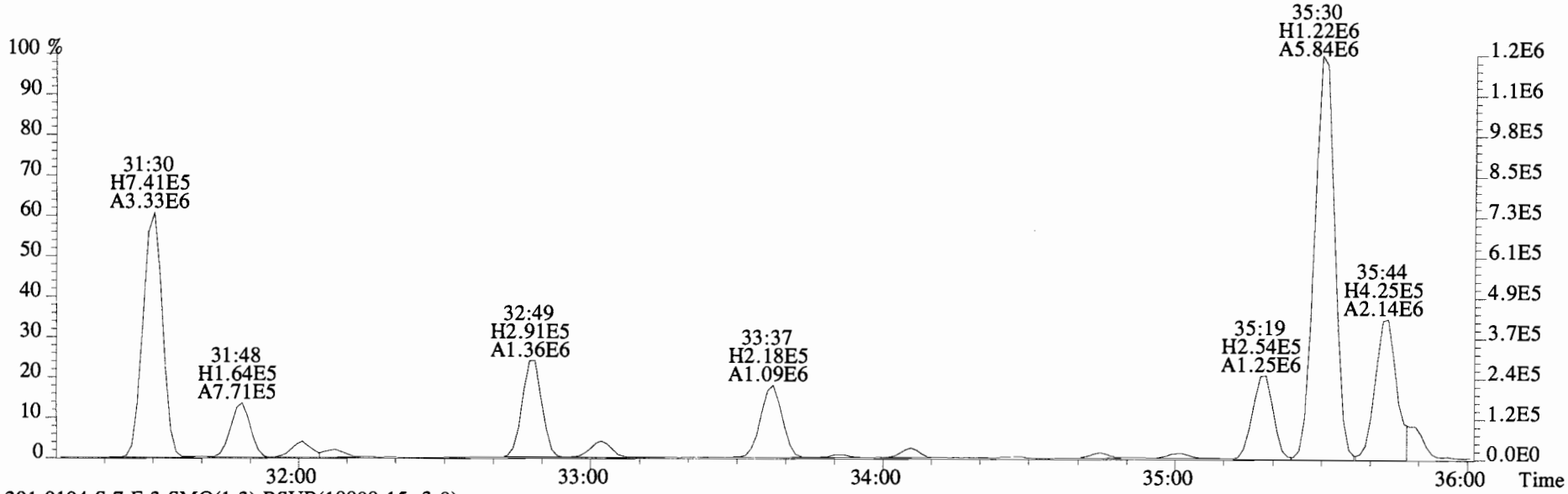
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



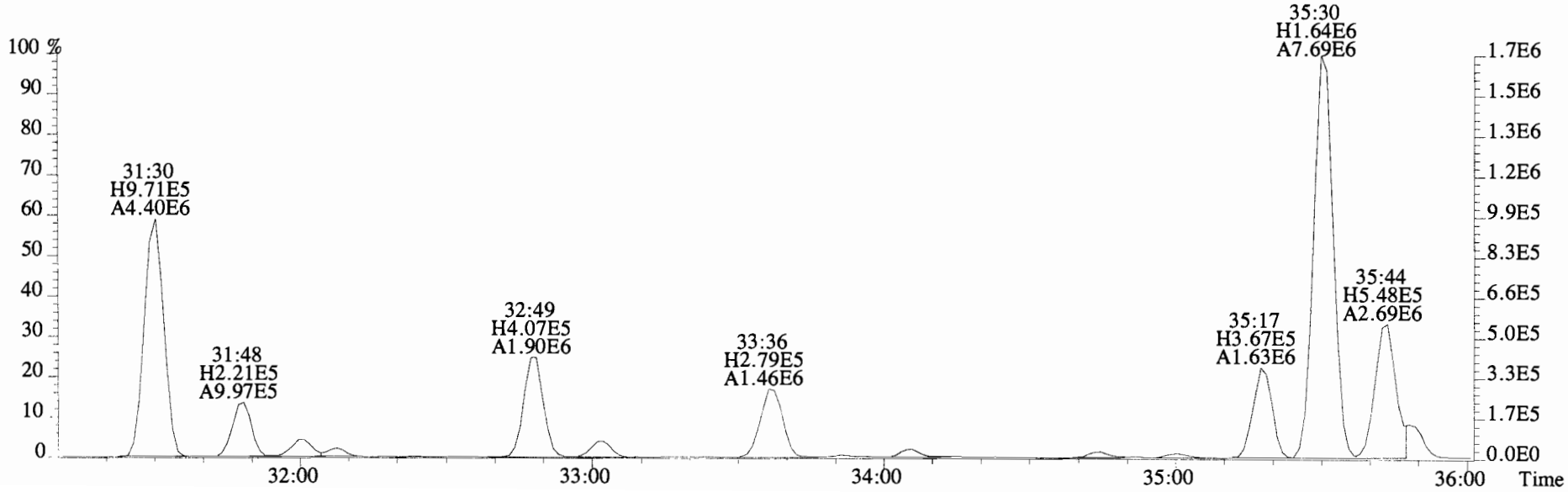
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



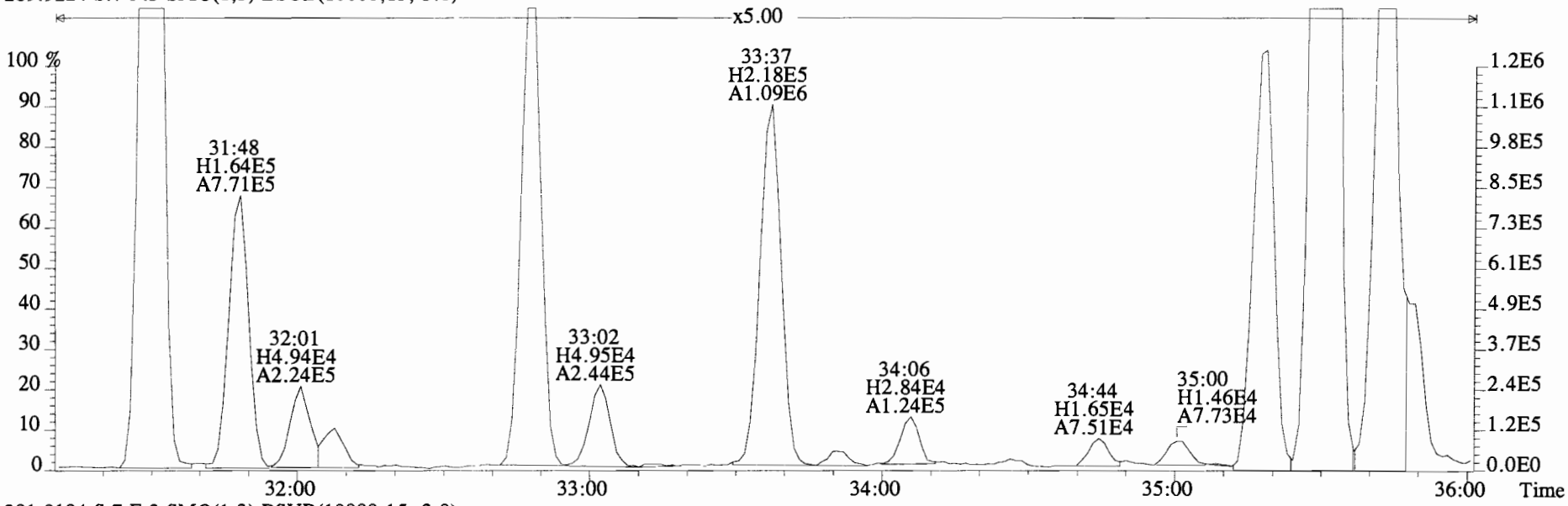
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



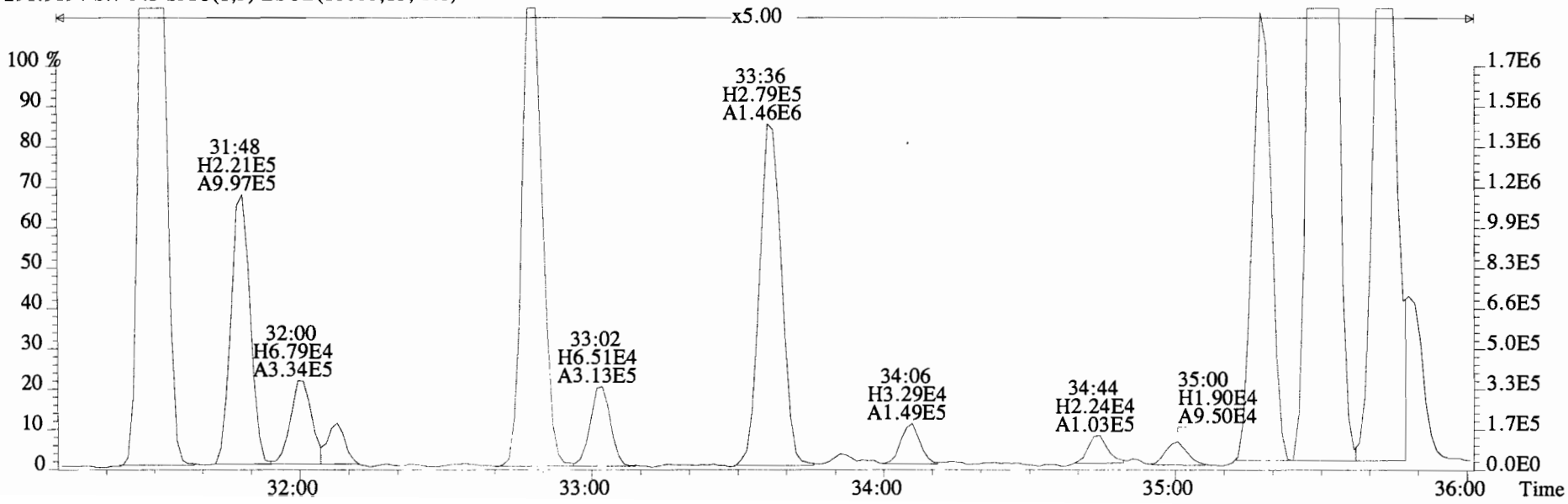
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



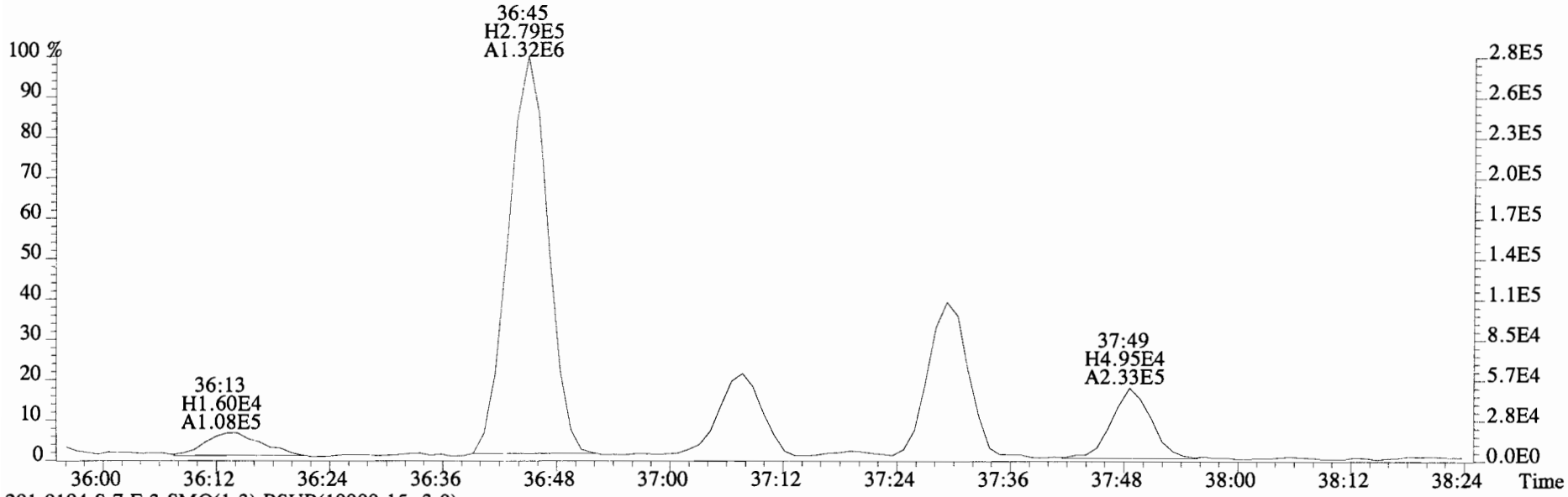
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



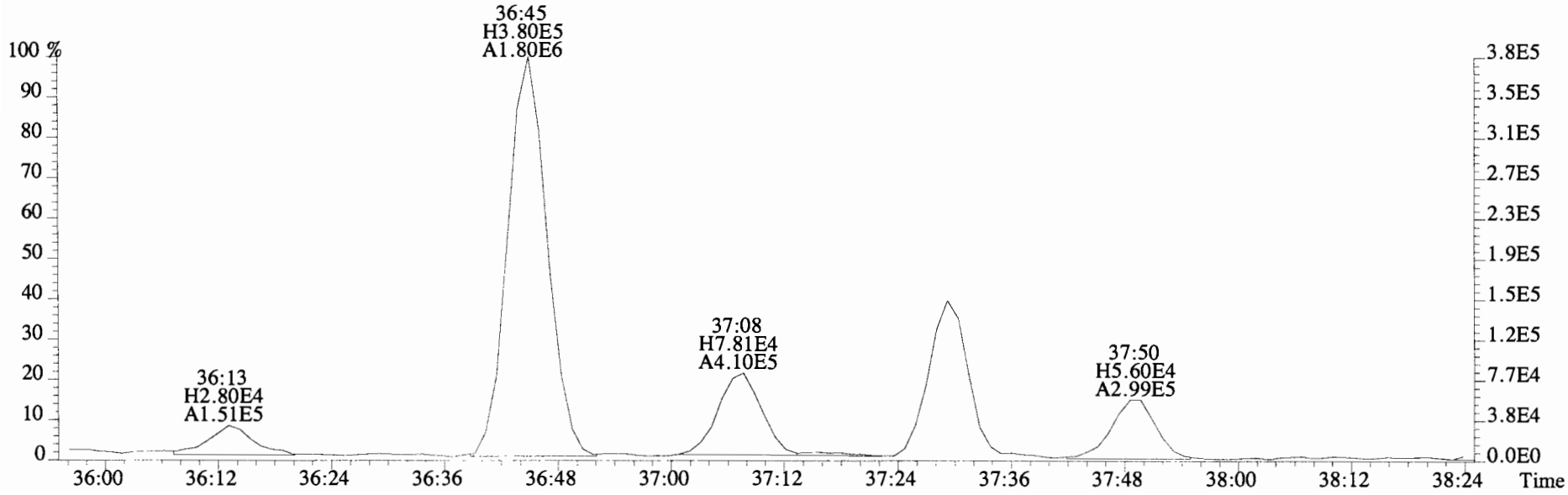
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



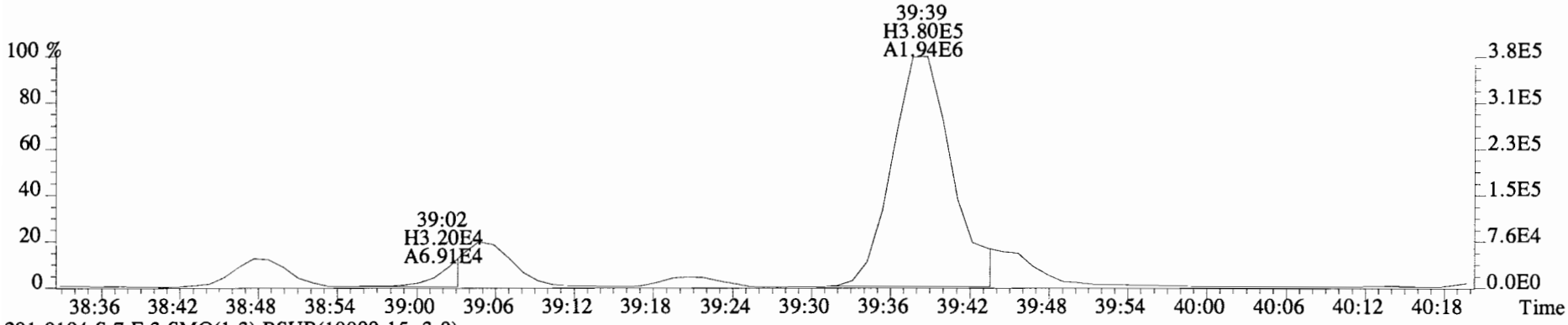
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



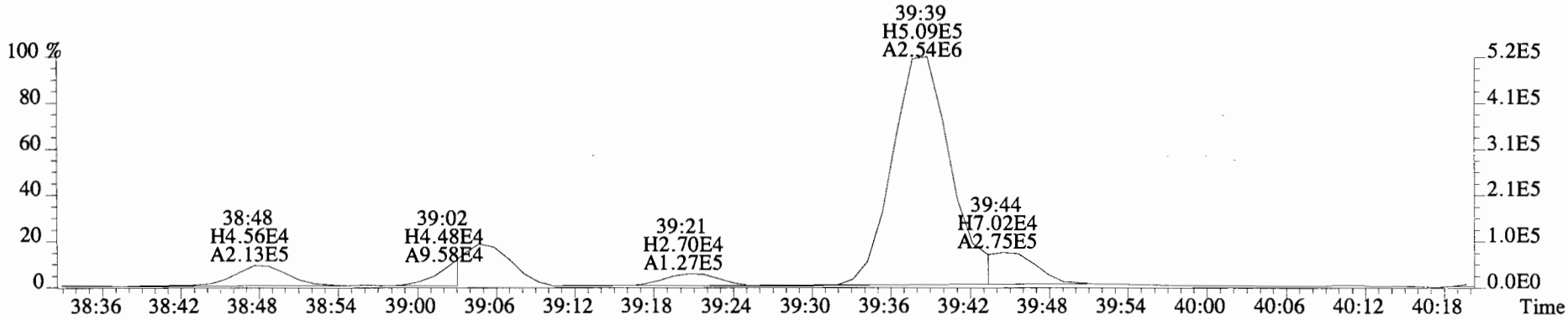
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



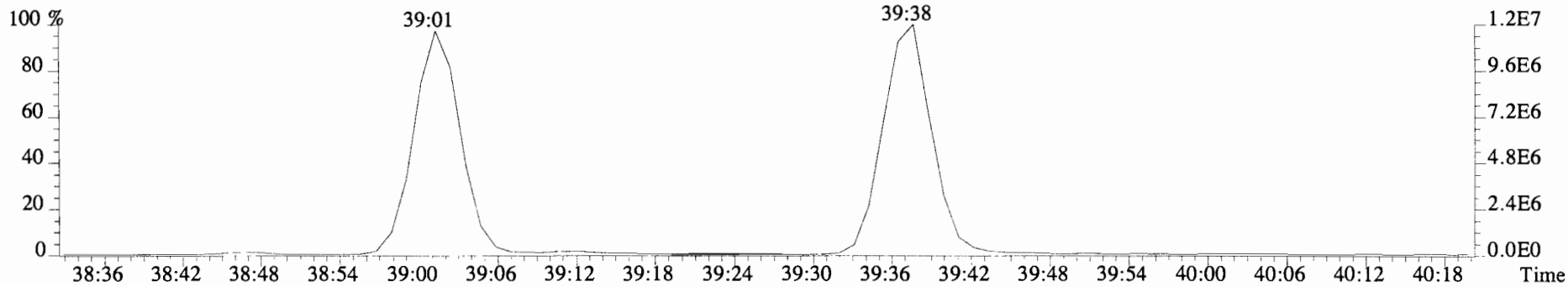
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



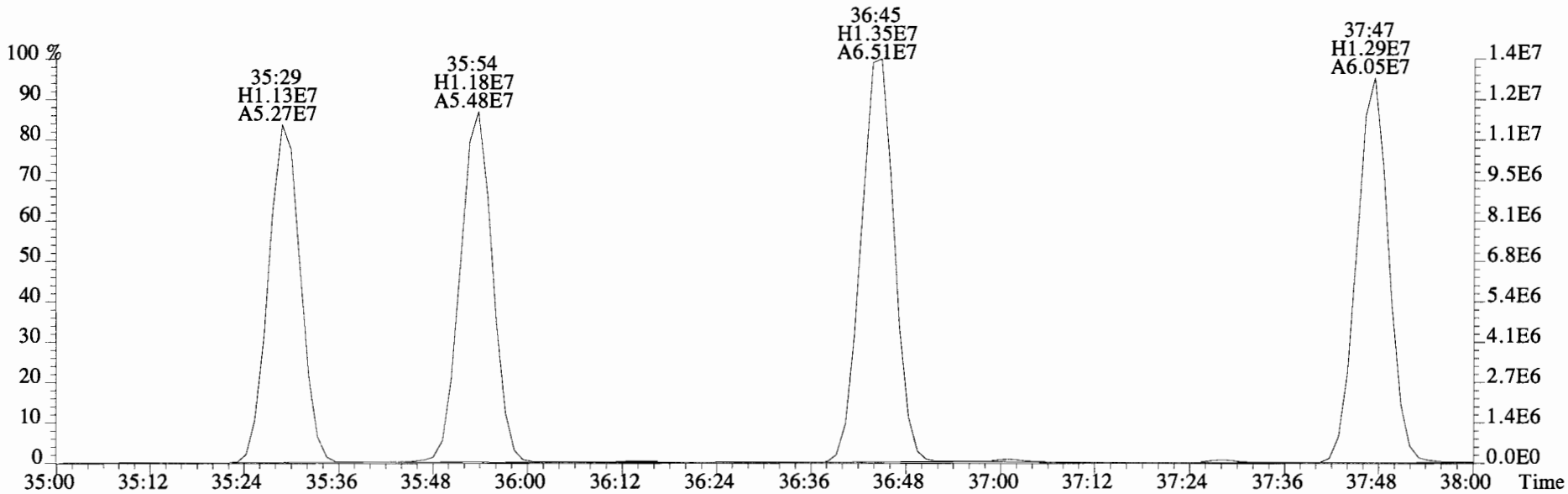
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



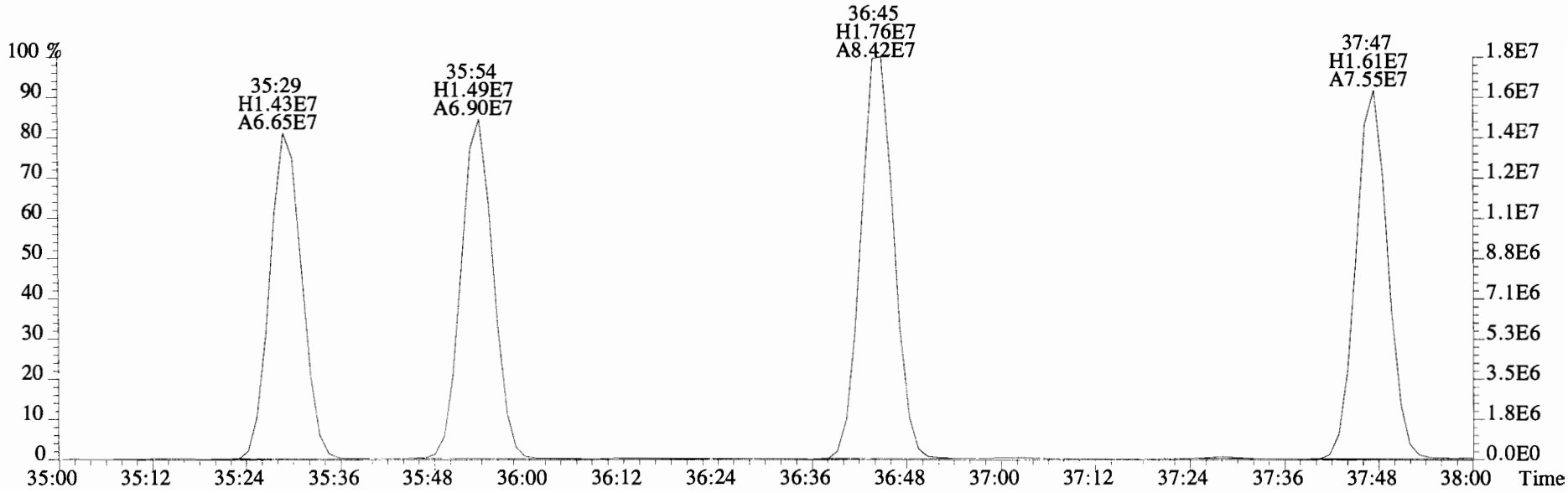
301.9626 S:7 F:3



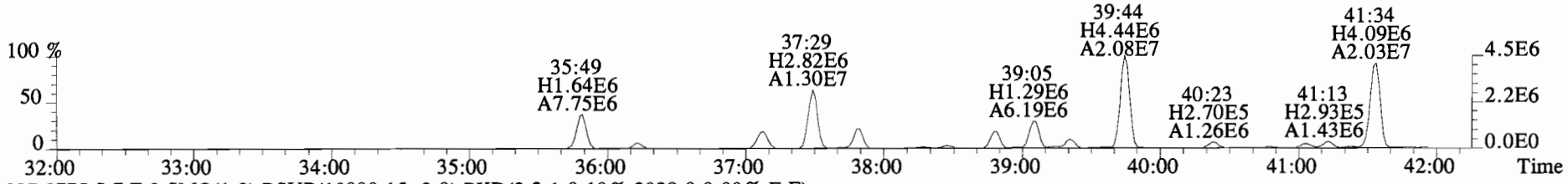
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9352.0,0.00%,F,F)



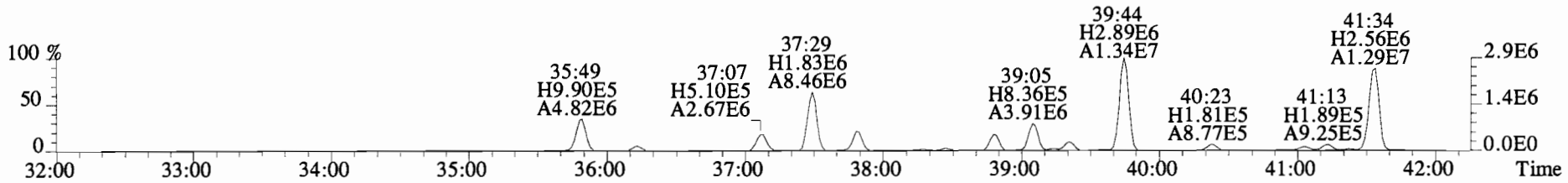
303.9597 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7428.0,0.00%,F,F)



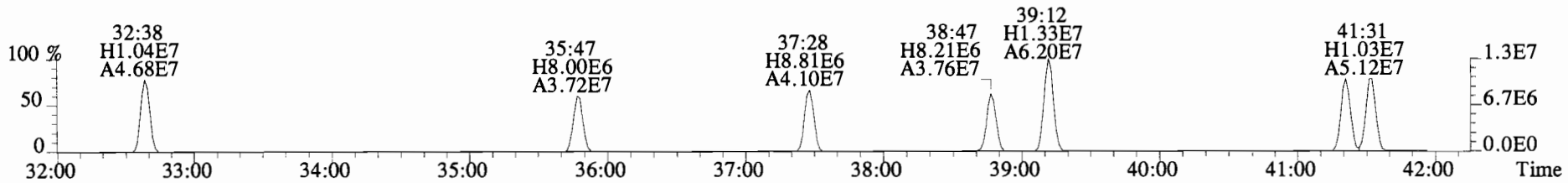
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1732.0,0.00%,F,F)



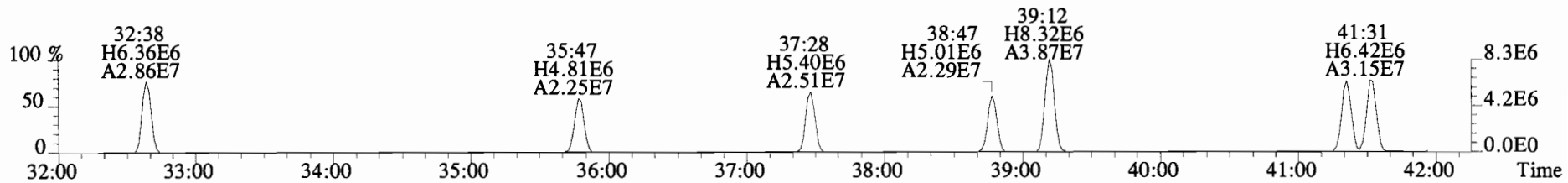
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3028.0,0.00%,F,F)



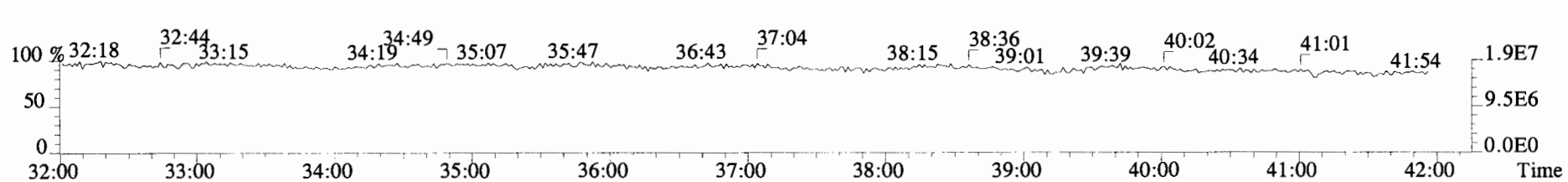
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2460.0,0.00%,F,F)

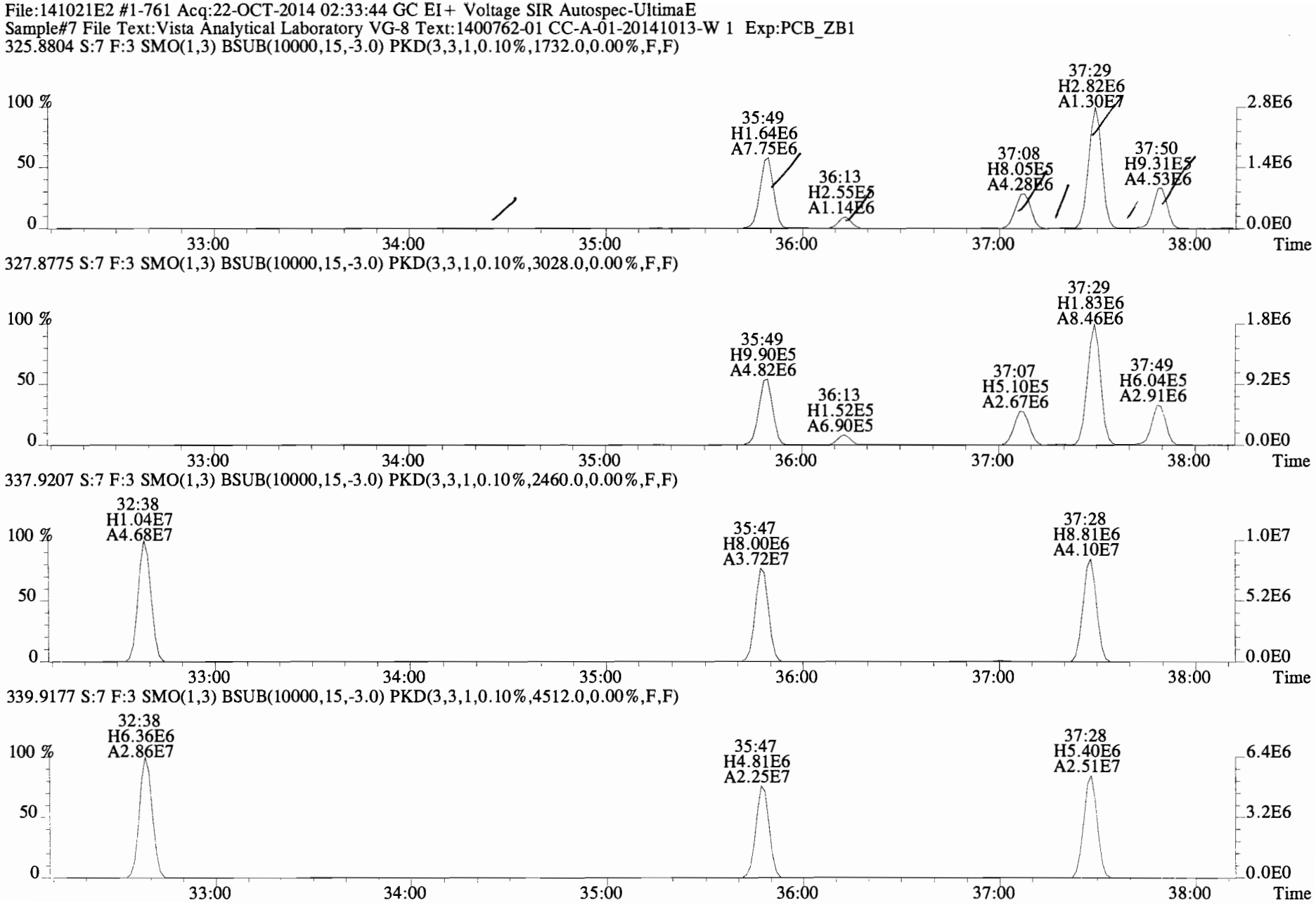


339.9177 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4512.0,0.00%,F,F)

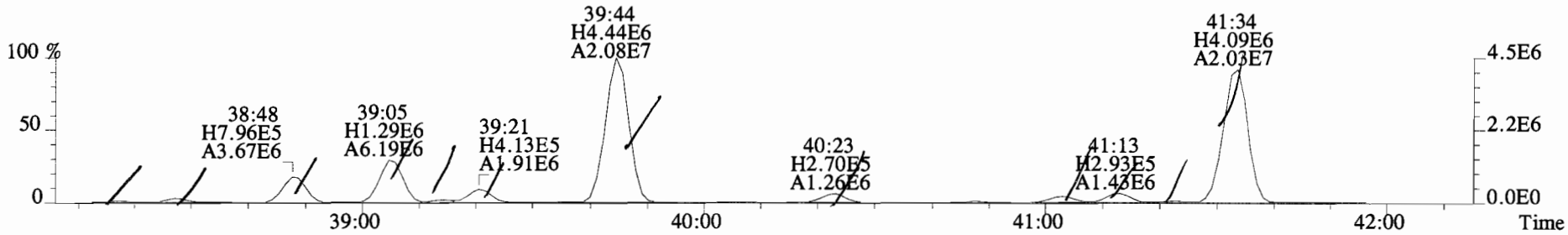


330.9792 S:7 F:3

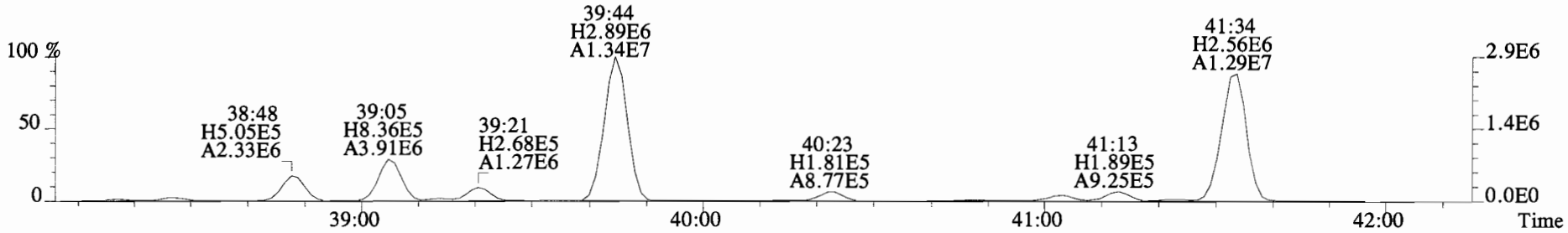



File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1732.0,0.00%,F,F)
100 %
50
0
35:49
H1.64E6
A7.75E6
36:13
H2.55E5
A1.14E6
37:08
H8.05E5
A4.28E6
37:29
H2.82E6
A1.30E7
37:50
H9.31E5
A4.53E6
2.8E6
1.4E6
0.0E0
33:00
34:00
35:00
36:00
37:00
38:00
Time
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3028.0,0.00%,F,F)
100 %
50
0
35:49
H9.90E5
A4.82E6
36:13
H1.52E5
A6.90E5
37:07
H5.10E5
A2.67E6
37:29
H1.83E6
A8.46E6
37:49
H6.04E5
A2.91E6
1.8E6
9.2E5
0.0E0
33:00
34:00
35:00
36:00
37:00
38:00
Time
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2460.0,0.00%,F,F)
100 %
50
0
32:38
H1.04E7
A4.68E7
35:47
H8.00E6
A3.72E7
37:28
H8.81E6
A4.10E7
1.0E7
5.2E6
0.0E0
33:00
34:00
35:00
36:00
37:00
38:00
Time
339.9177 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4512.0,0.00%,F,F)
100 %
50
0
32:38
H6.36E6
A2.86E7
35:47
H4.81E6
A2.25E7
37:28
H5.40E6
A2.51E7
6.4E6
3.2E6
0.0E0
33:00
34:00
35:00
36:00
37:00
38:00
Time

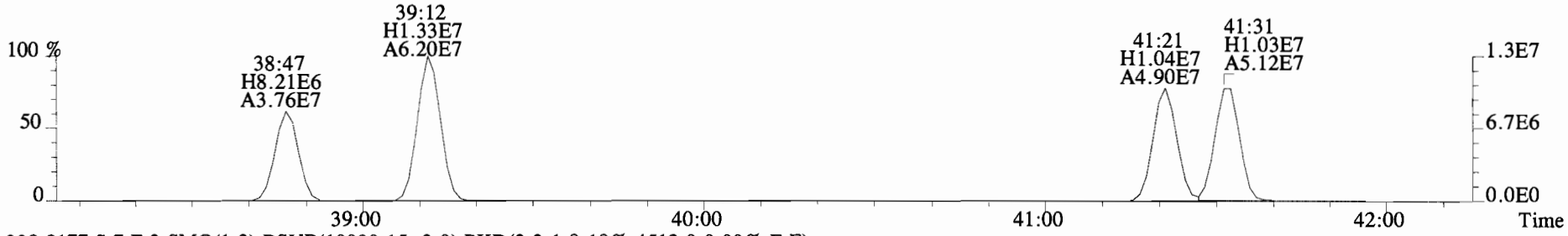
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1732.0,0.00%,F,F)



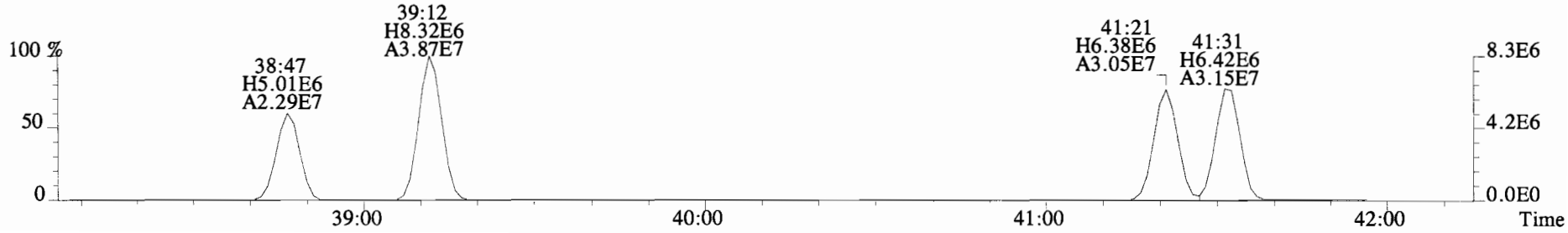
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3028.0,0.00%,F,F)



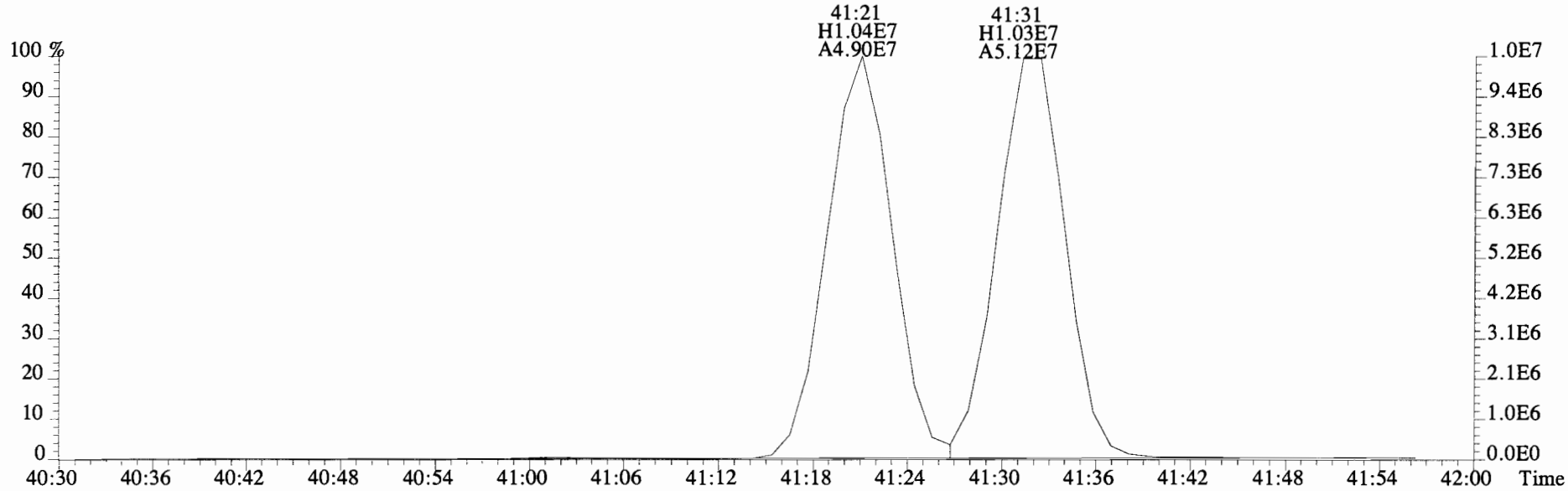
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2460.0,0.00%,F,F)



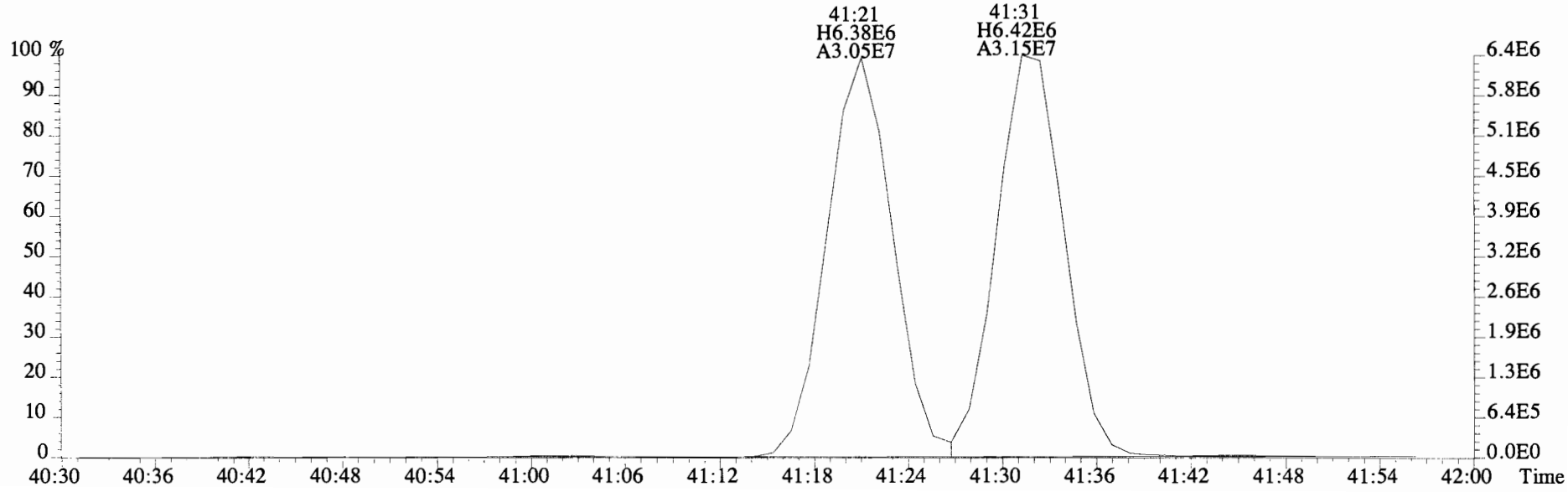
339.9177 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4512.0,0.00%,F,F)



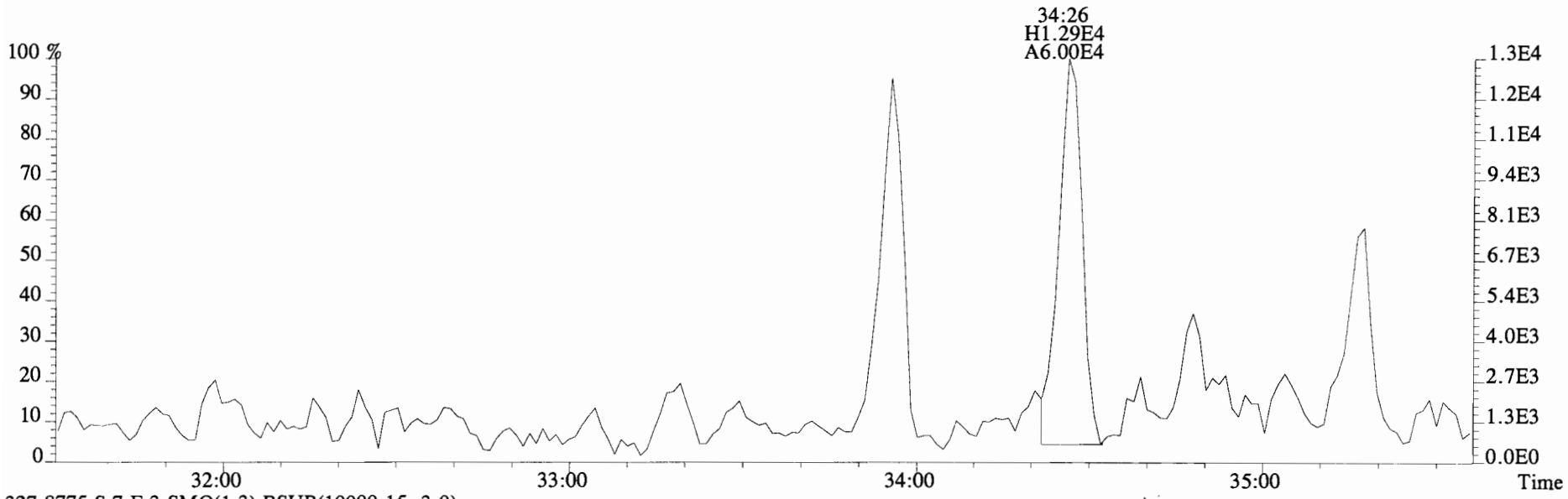
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2460.0,0.00%,F,F)



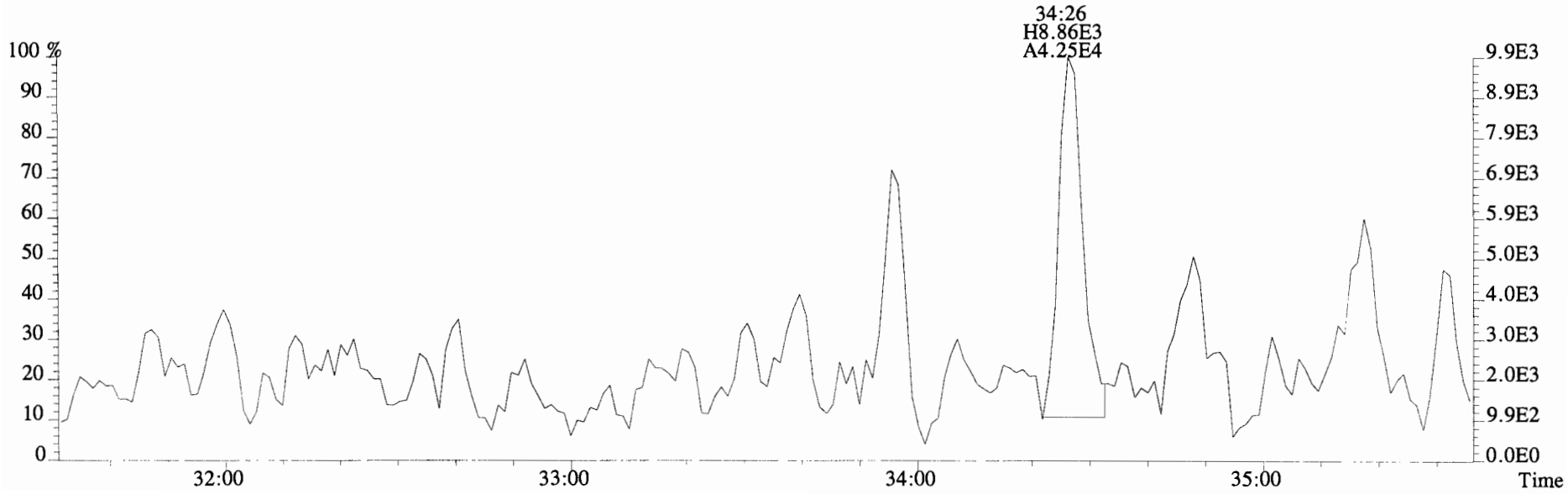
339.9177 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4512.0,0.00%,F,F)



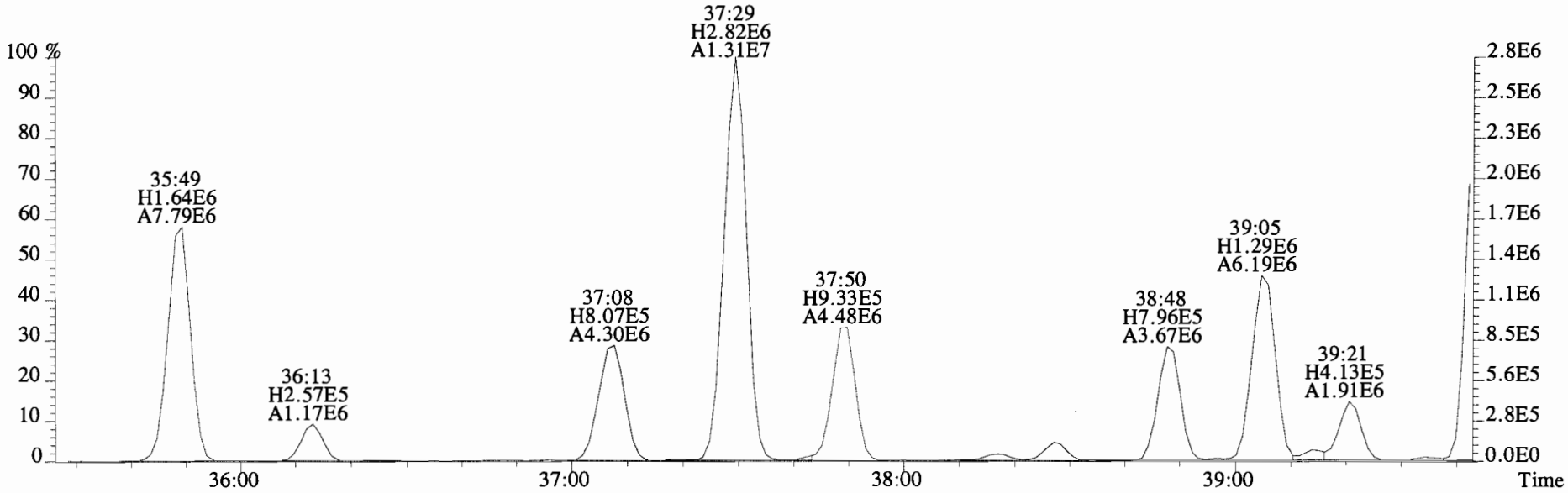
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



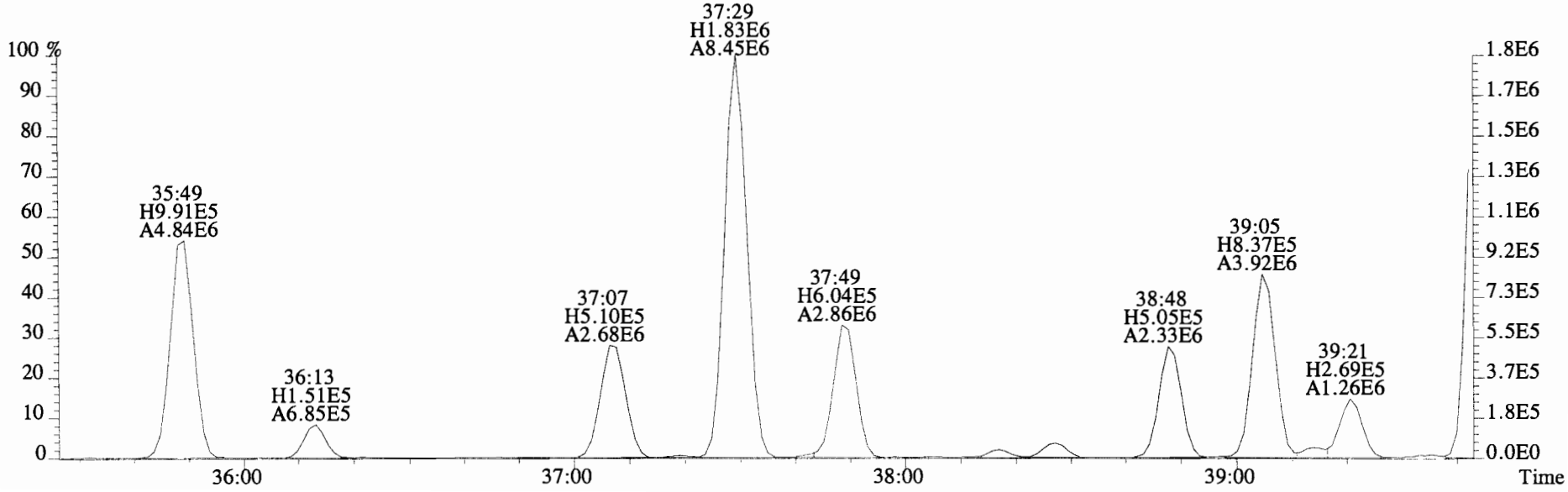
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



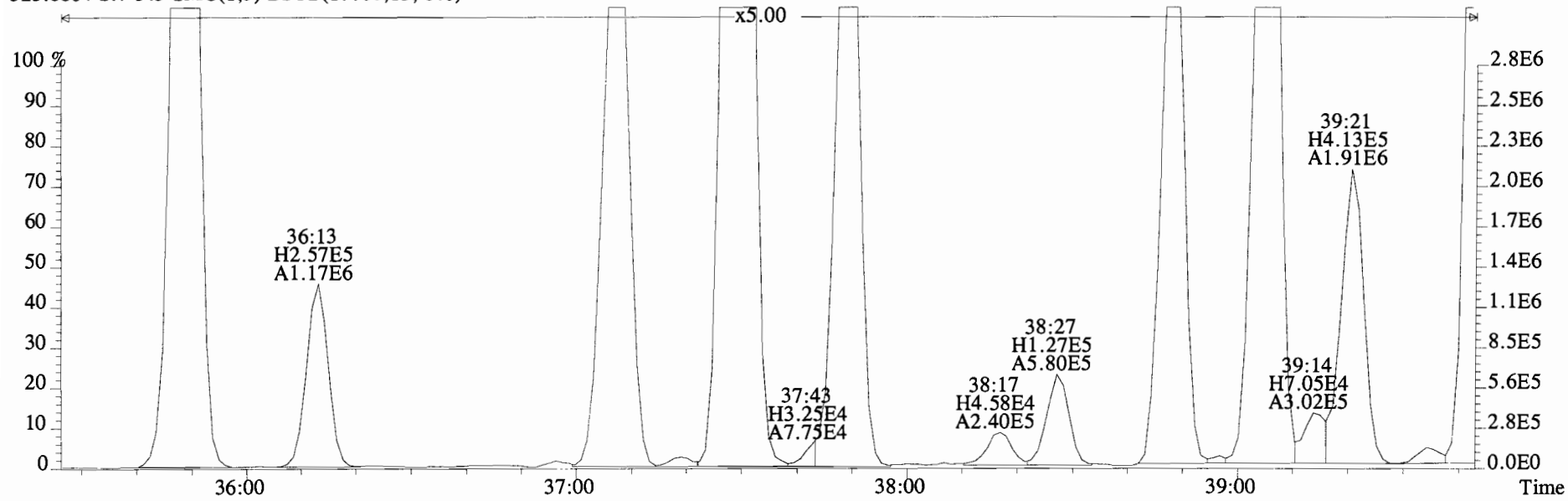
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



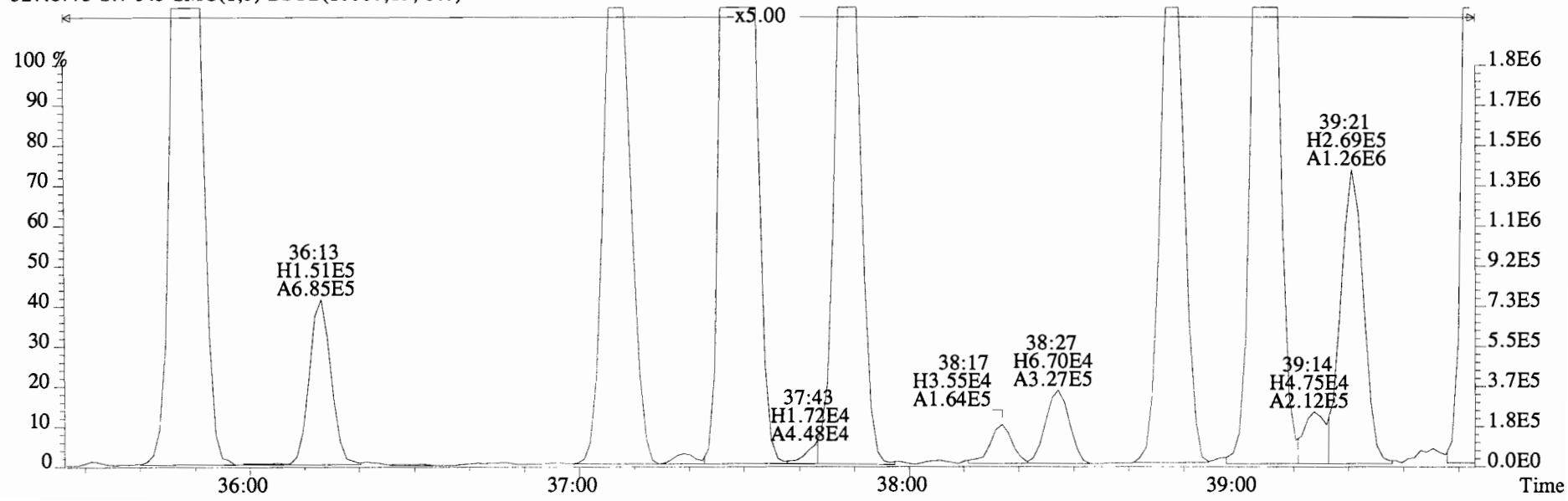
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



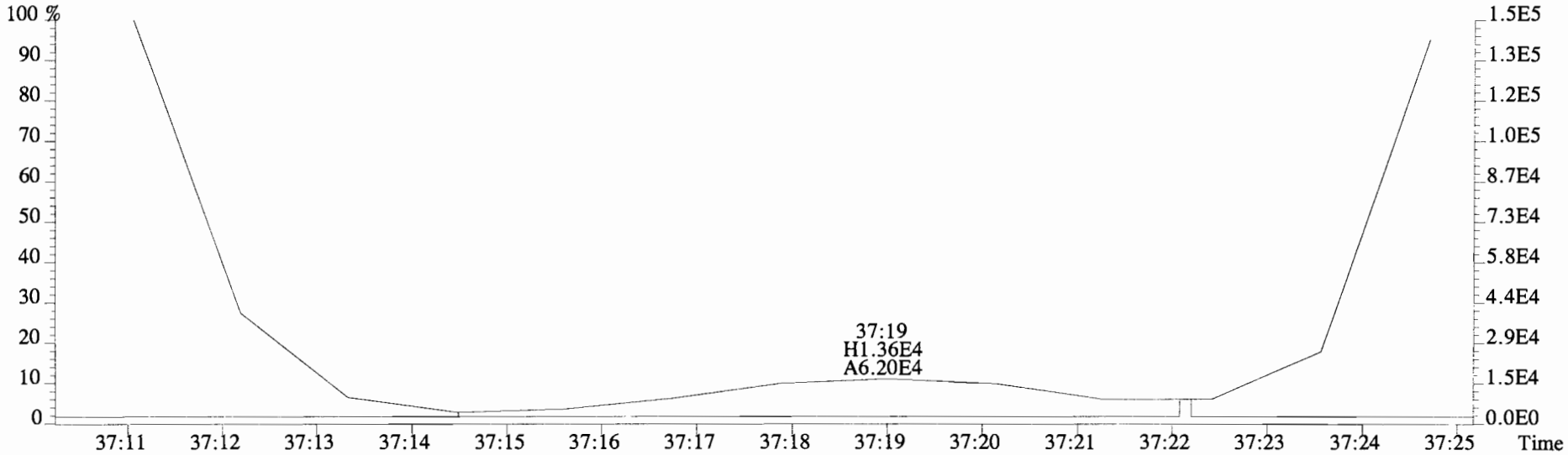
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



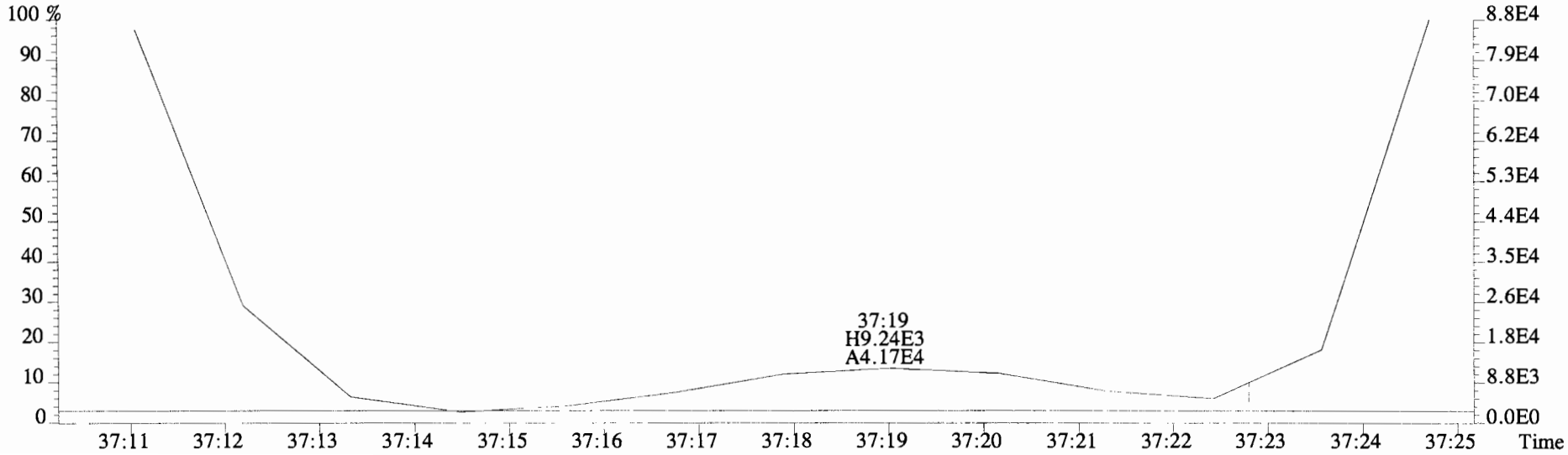
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



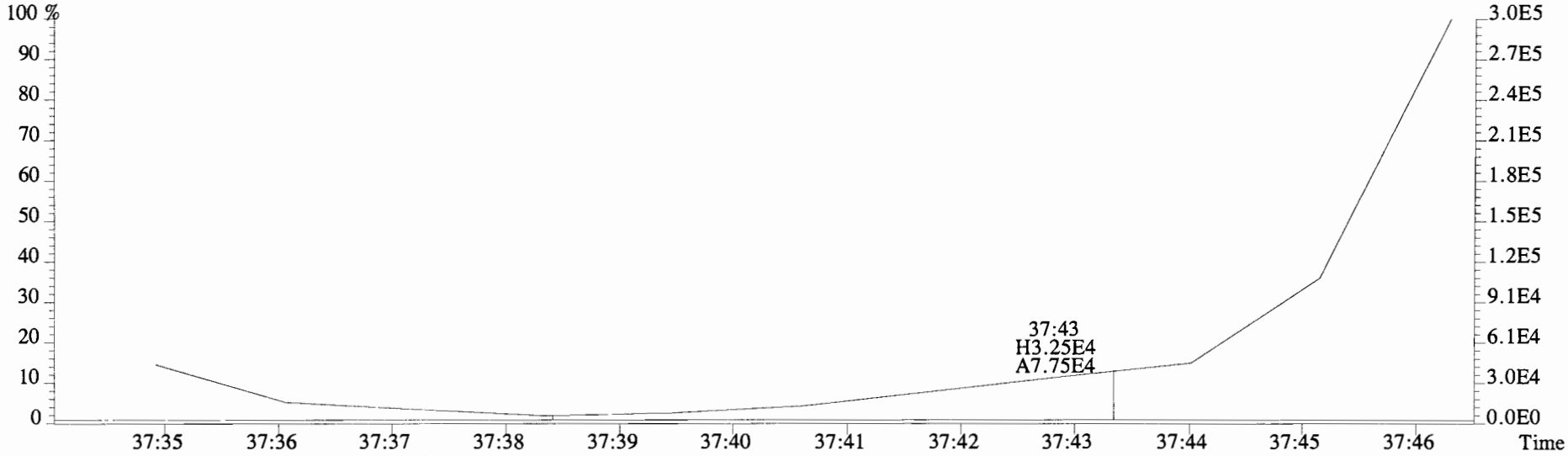
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



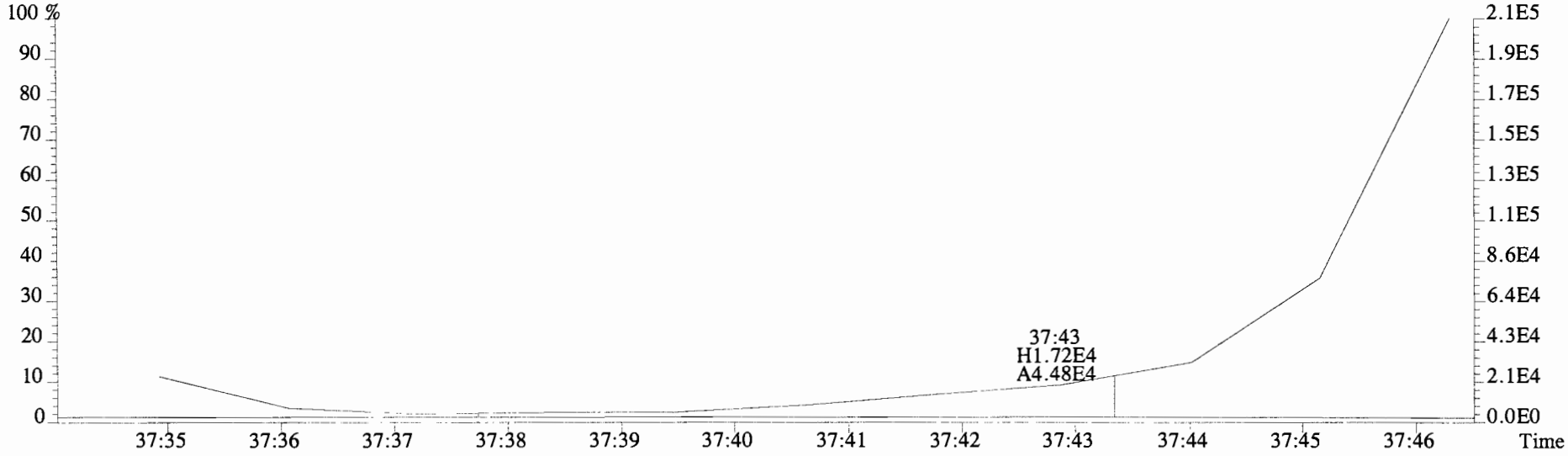
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



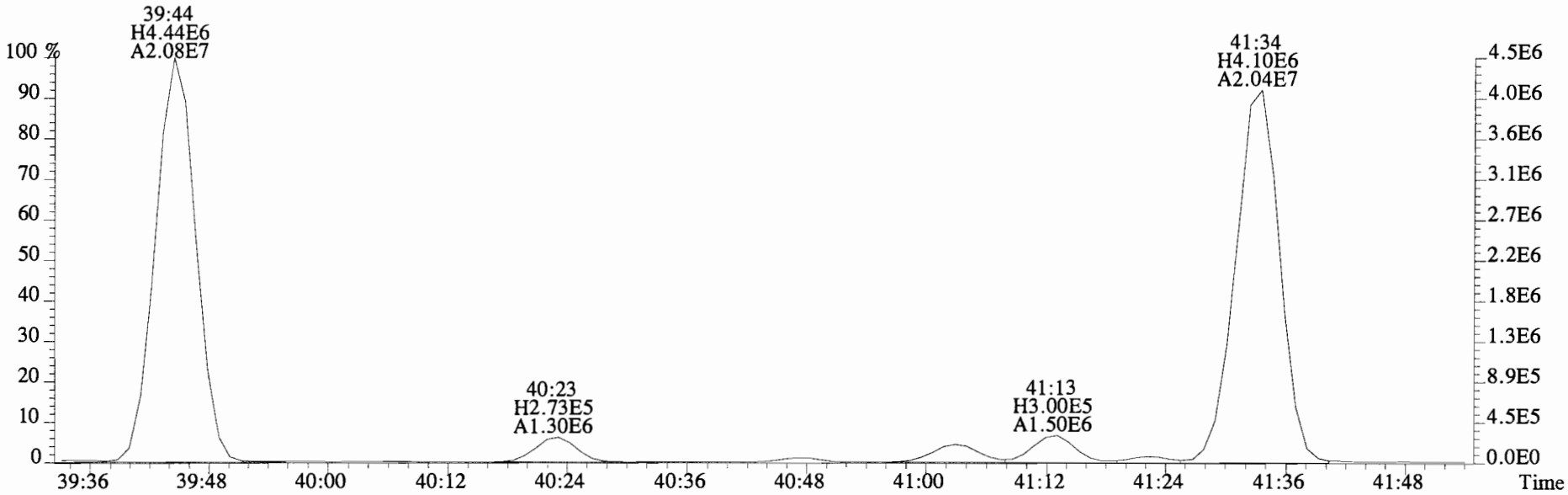
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



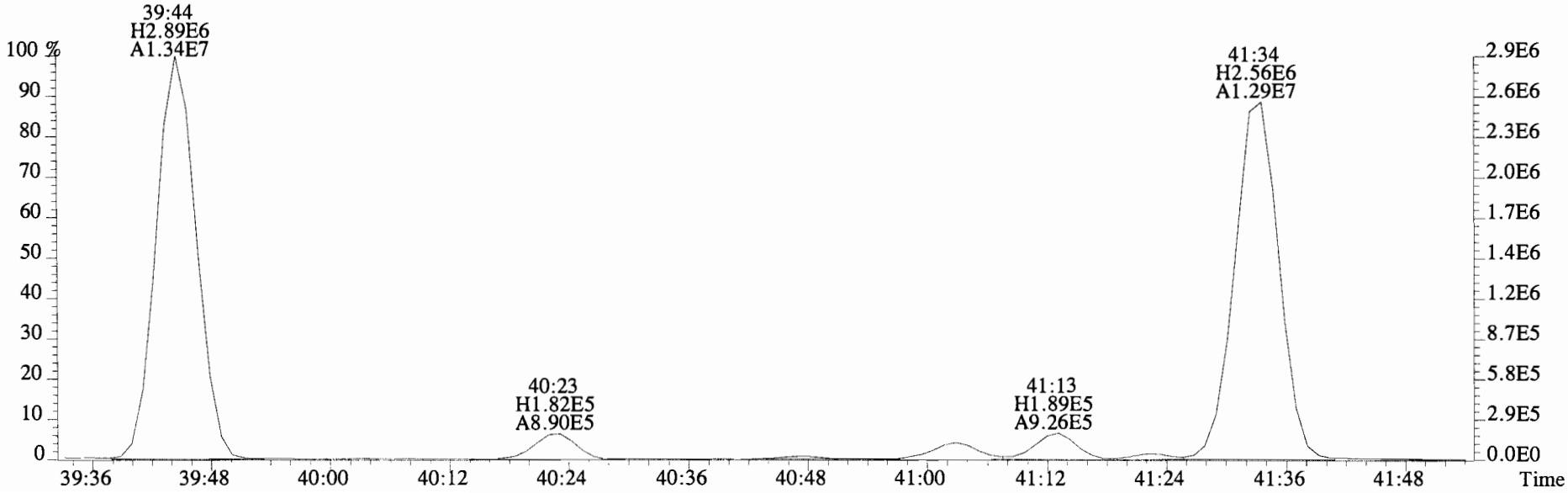
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



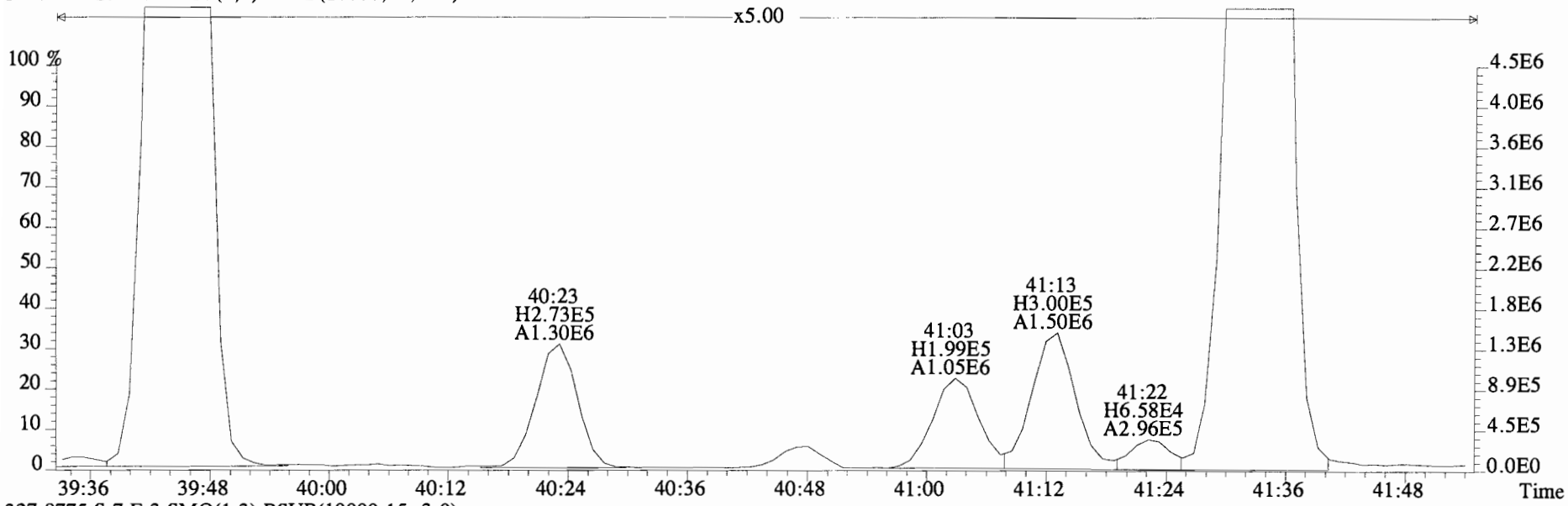
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



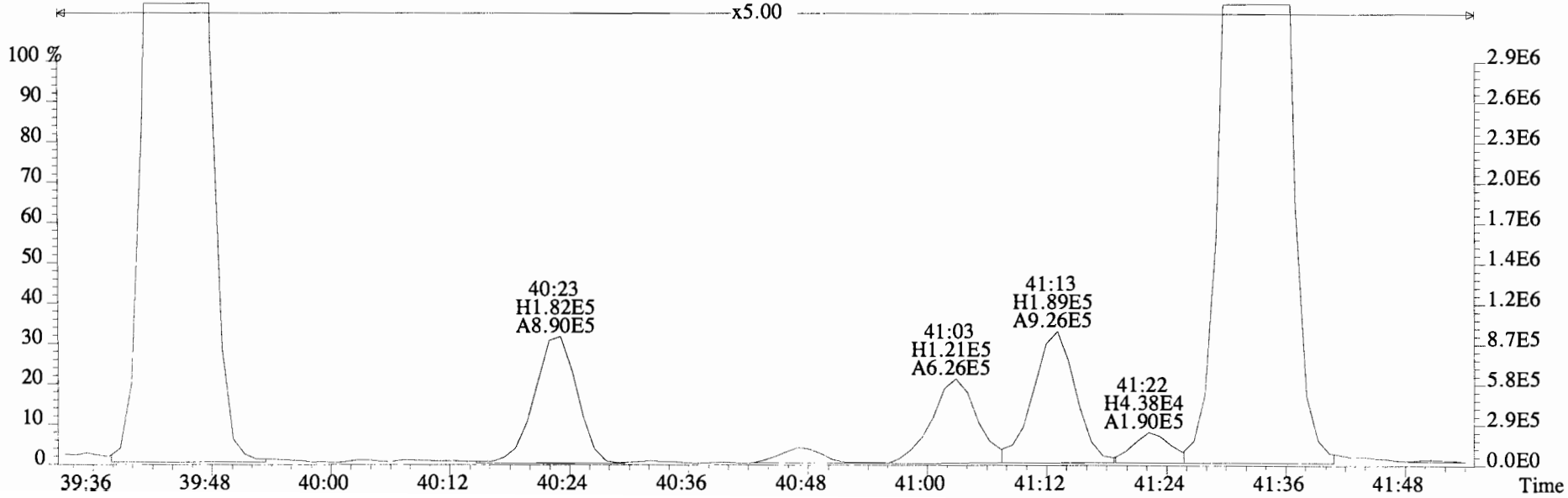
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



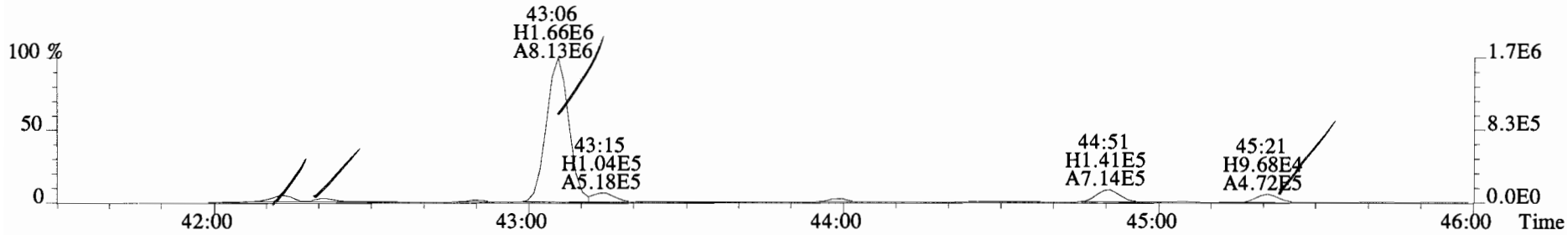
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



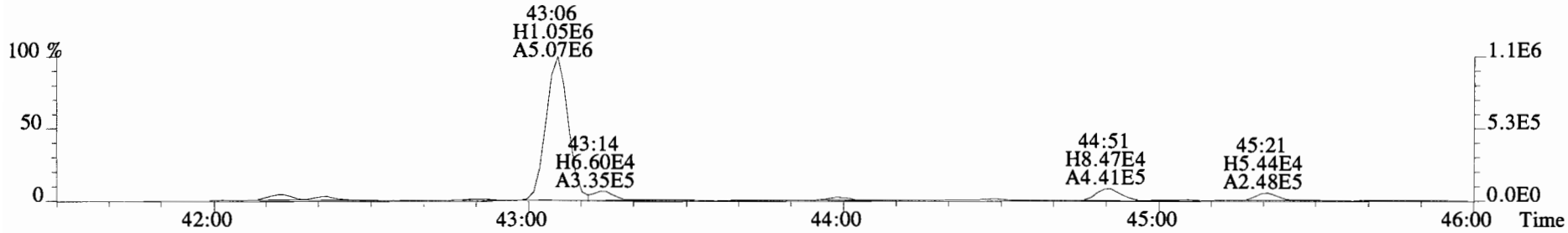
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



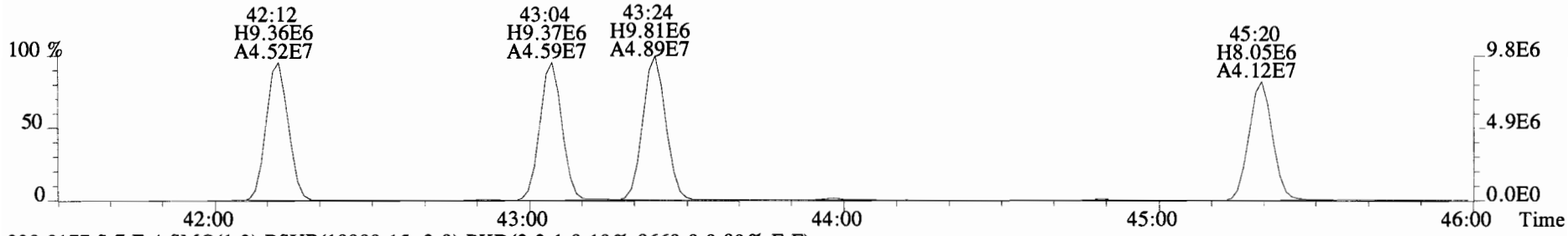
File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
325.8804 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6784.0,0.00%,F,F)



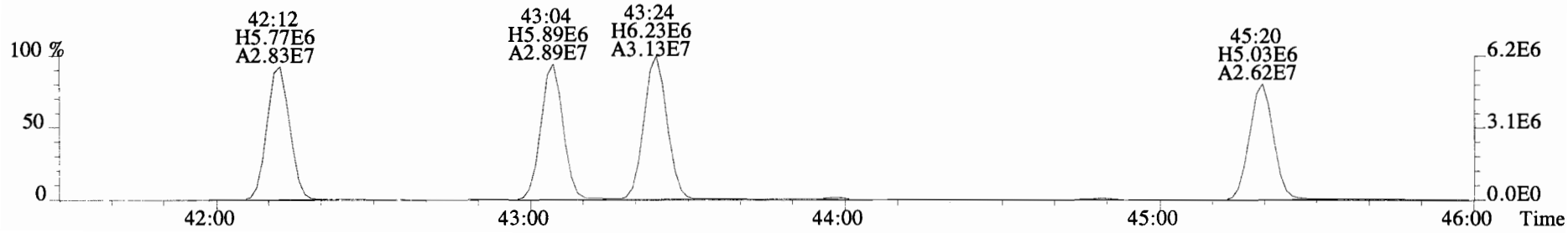
327.8775 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4680.0,0.00%,F,F)



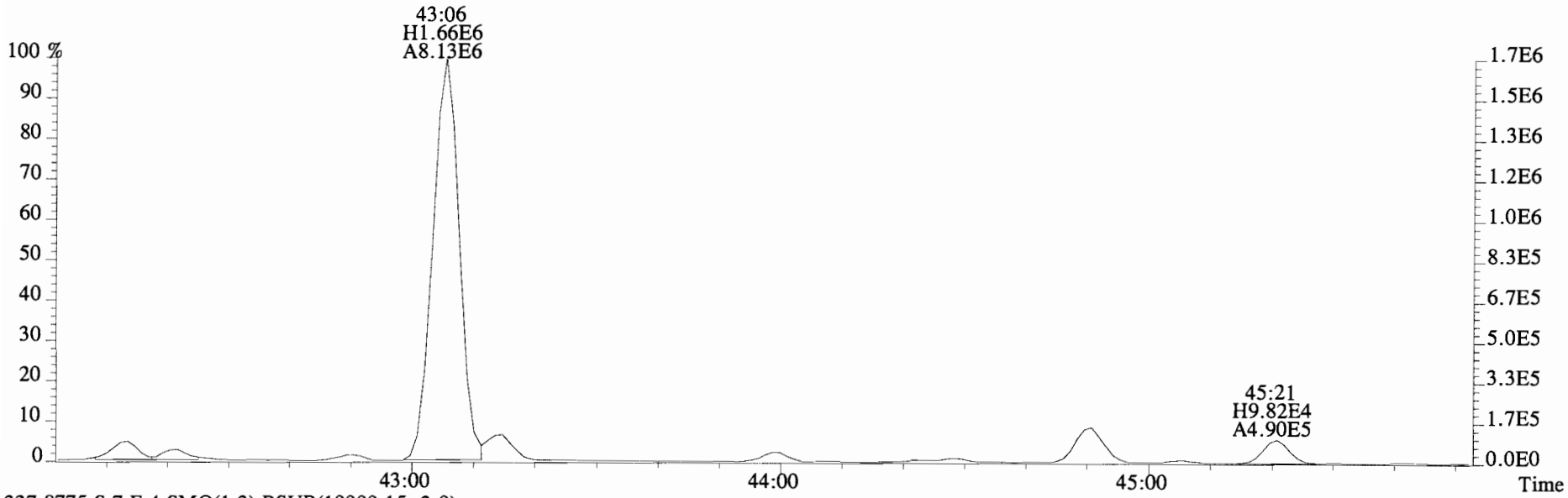
337.9207 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16024.0,0.00%,F,F)



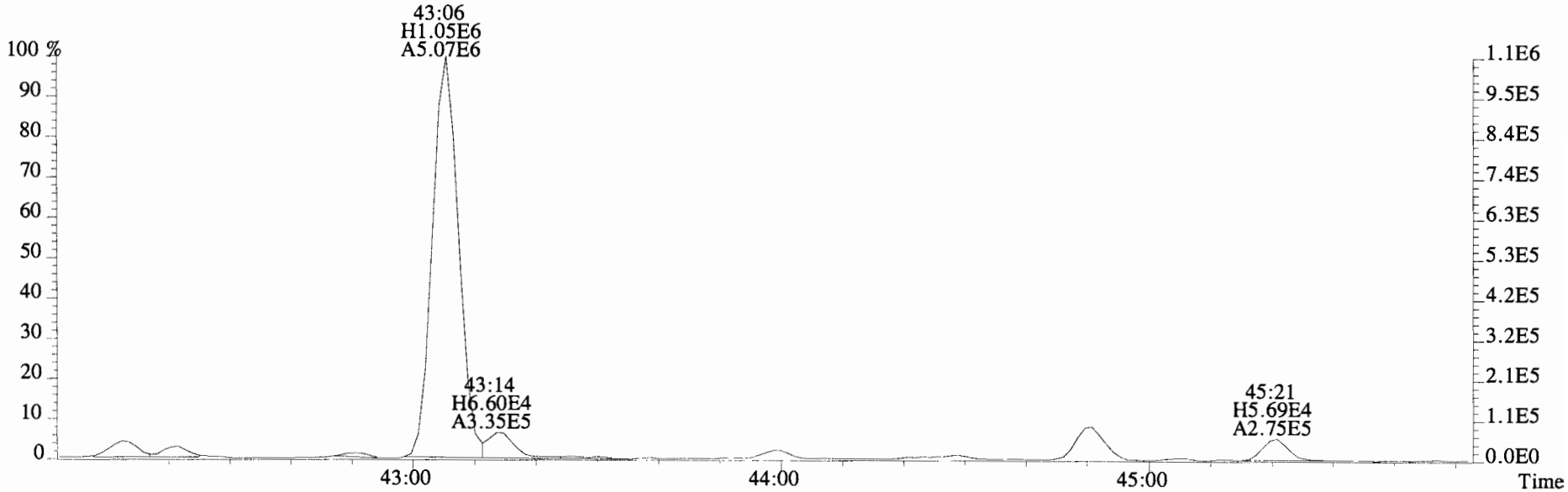
339.9177 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9660.0,0.00%,F,F)



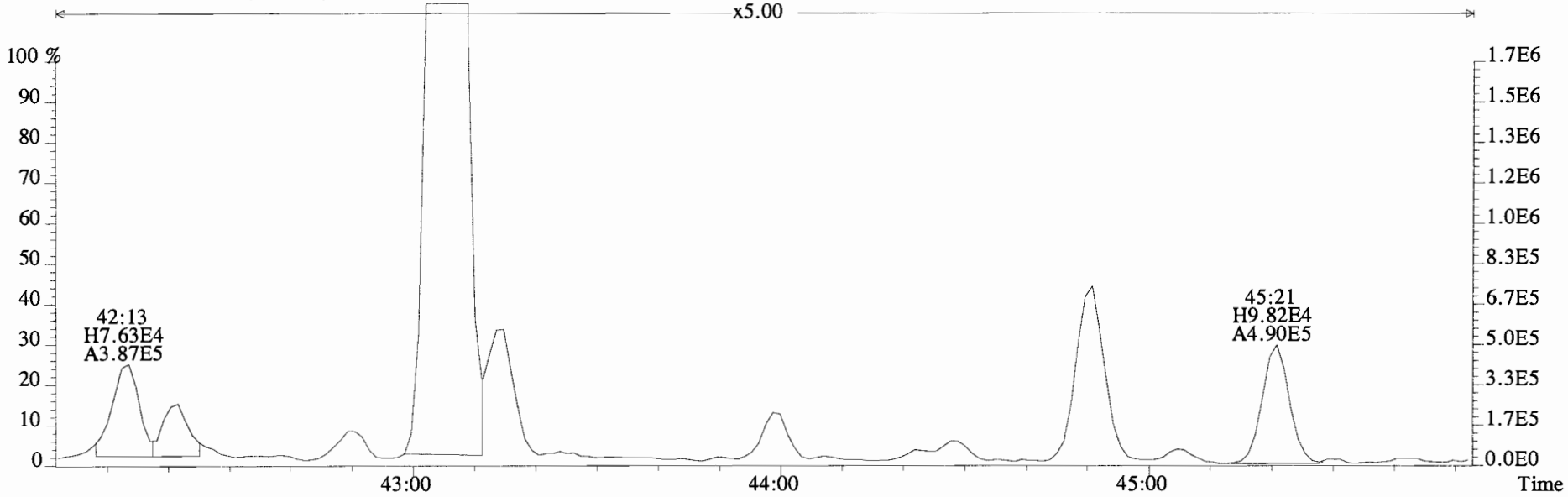
File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
325.8804 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



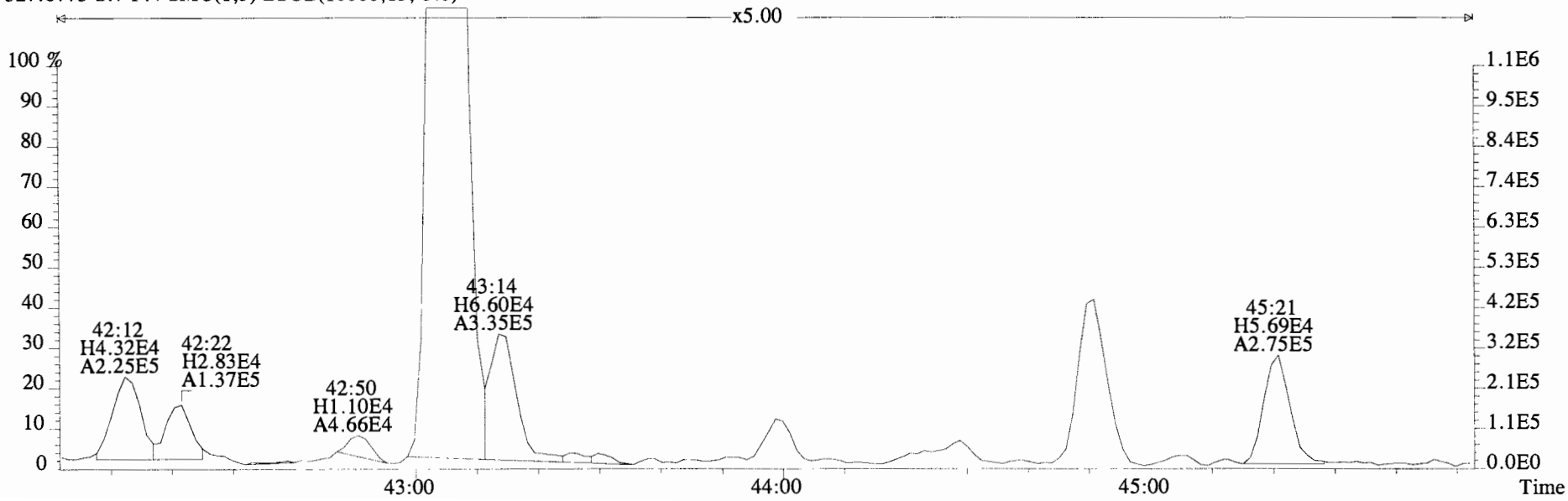
327.8775 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



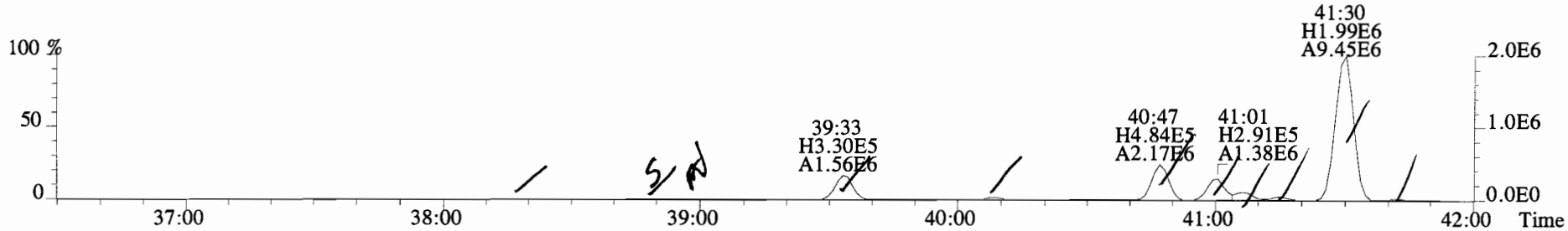
File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
325.8804 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



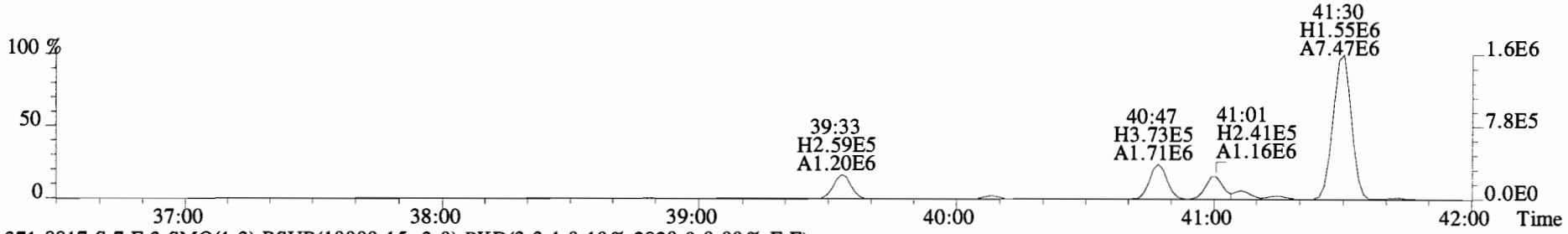
327.8775 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



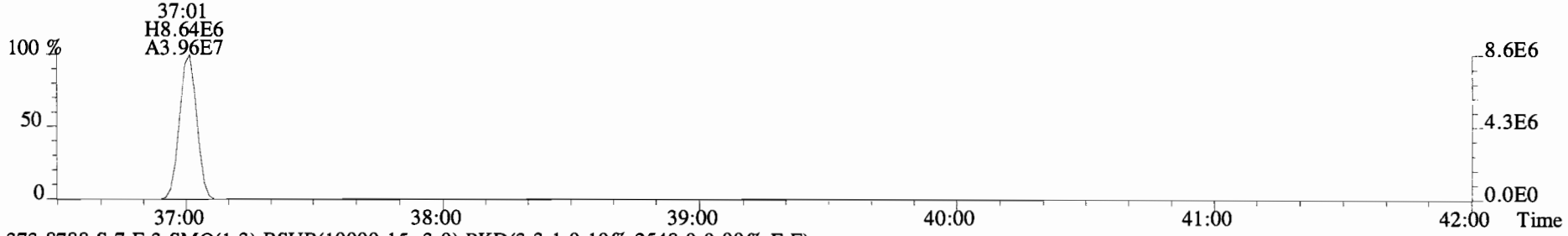
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1788.0,0.00%,F,F)



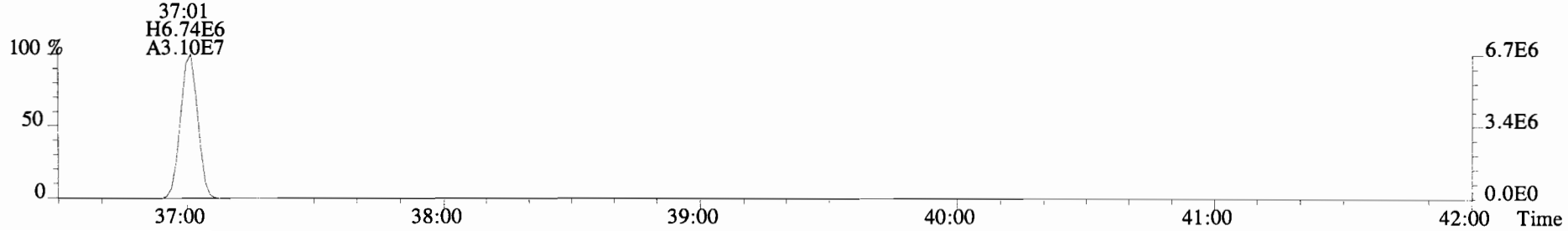
361.8385 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1620.0,0.00%,F,F)



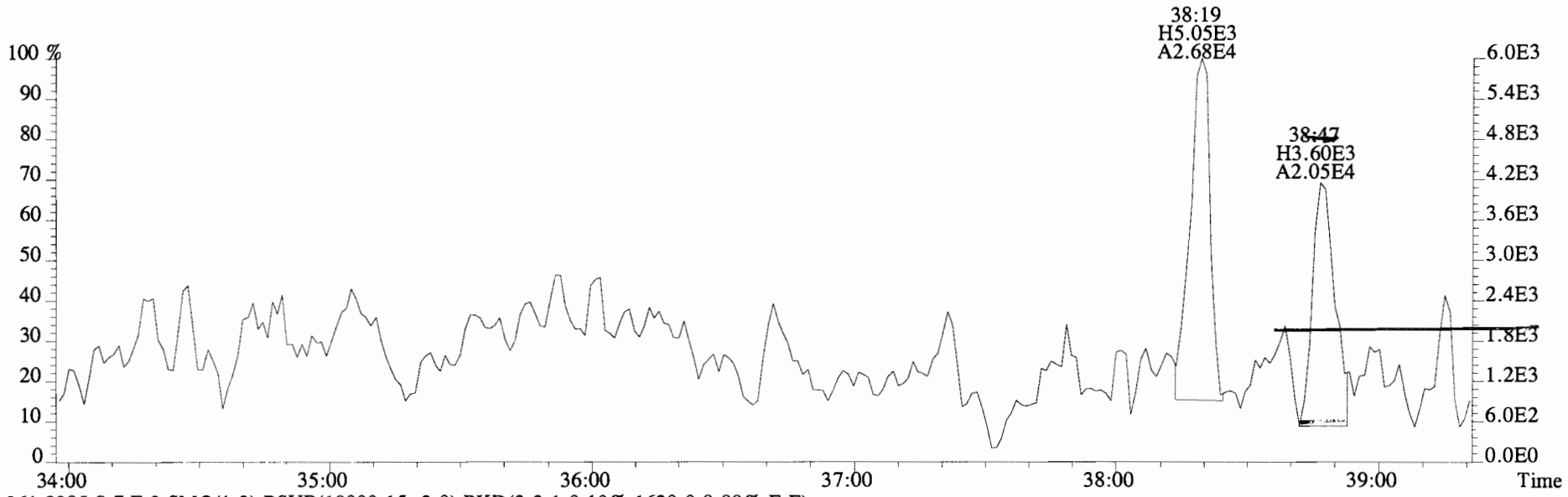
371.8817 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2820.0,0.00%,F,F)



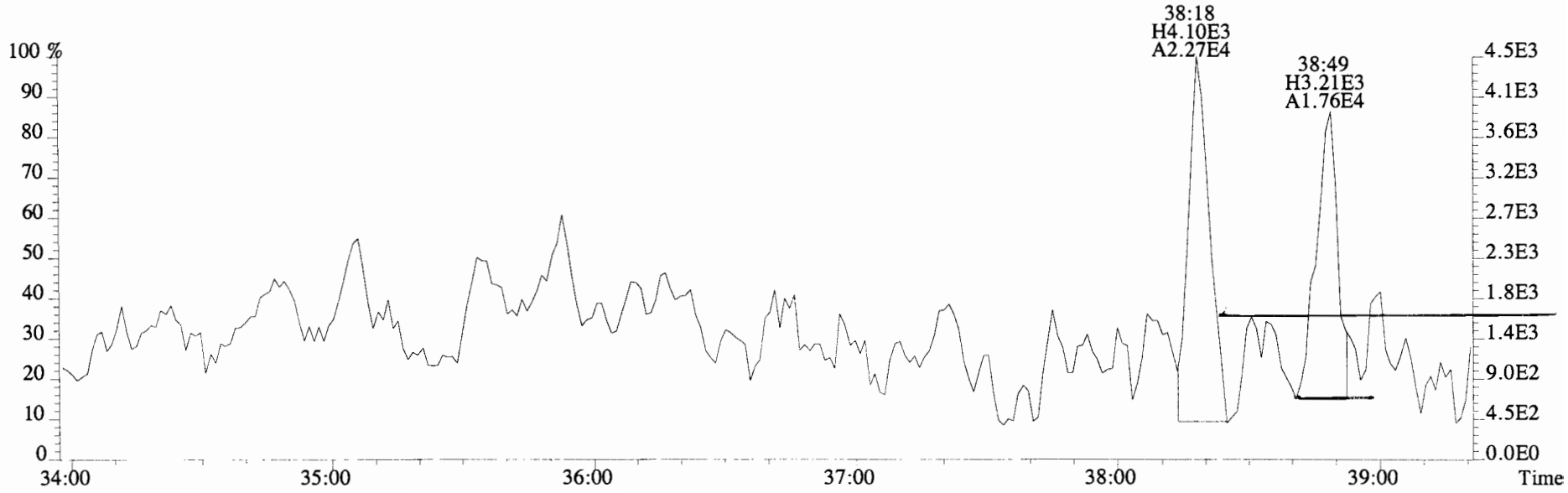
373.8788 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2548.0,0.00%,F,F)



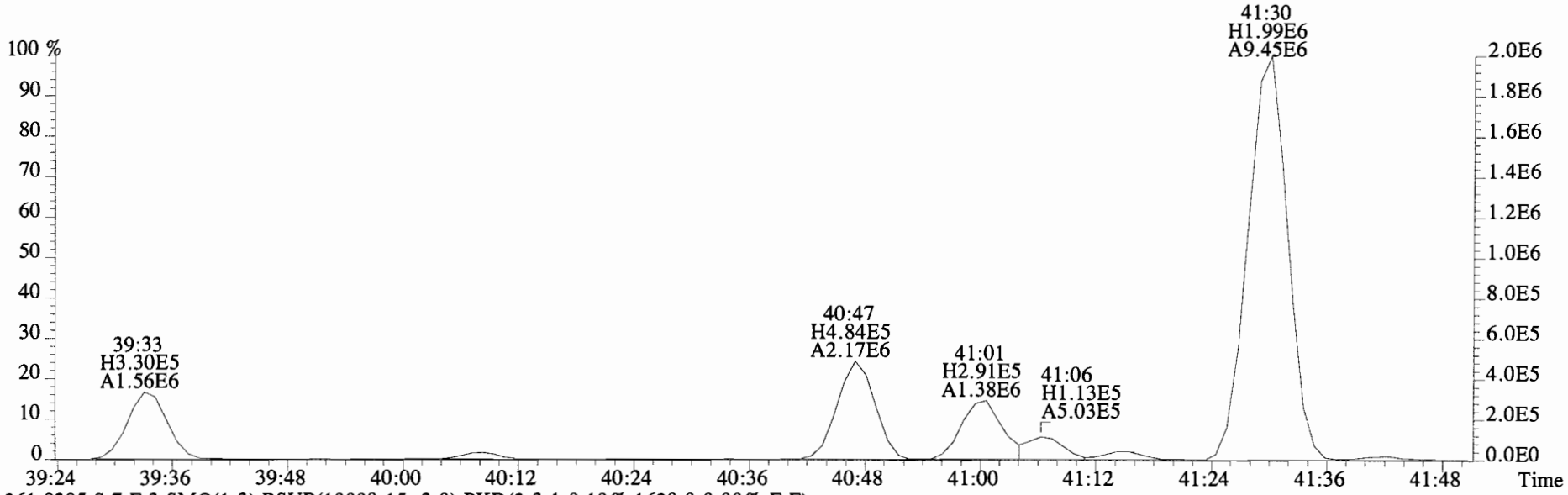
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1788.0,0.00%,F,F)



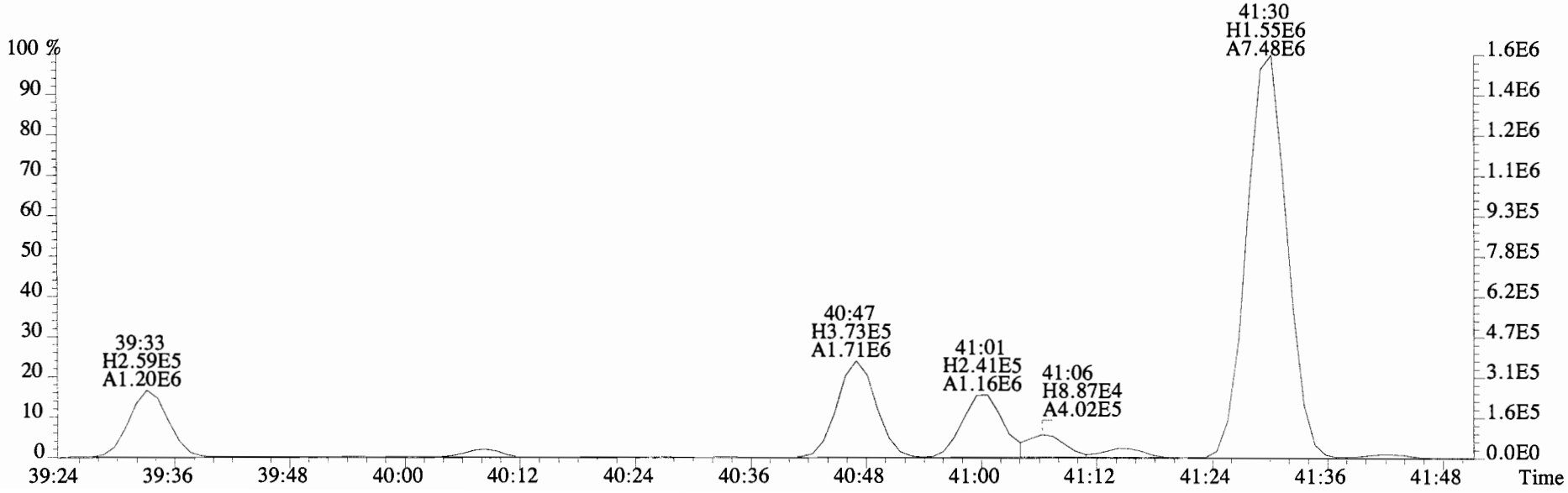
361.8385 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1620.0,0.00%,F,F)

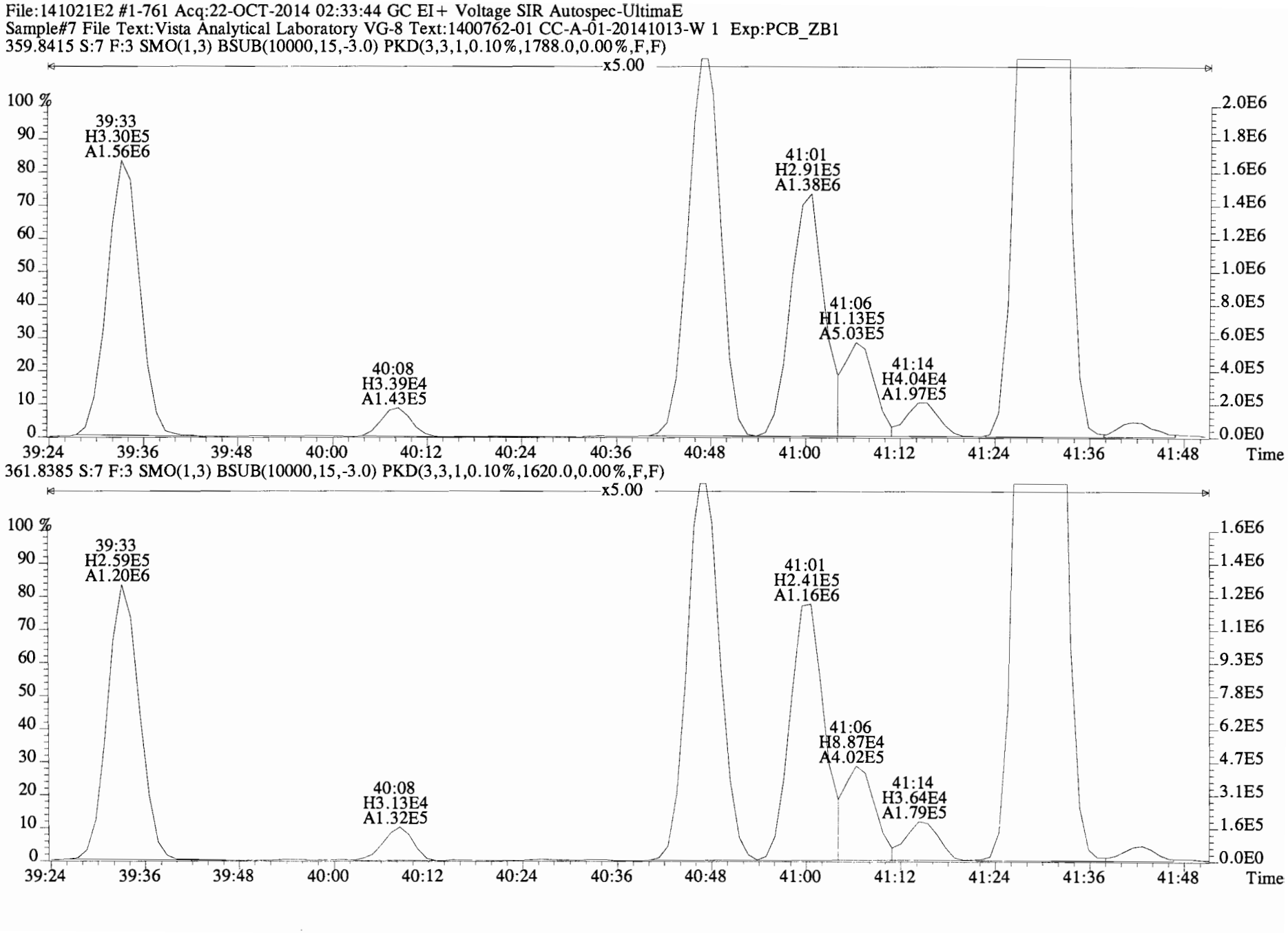


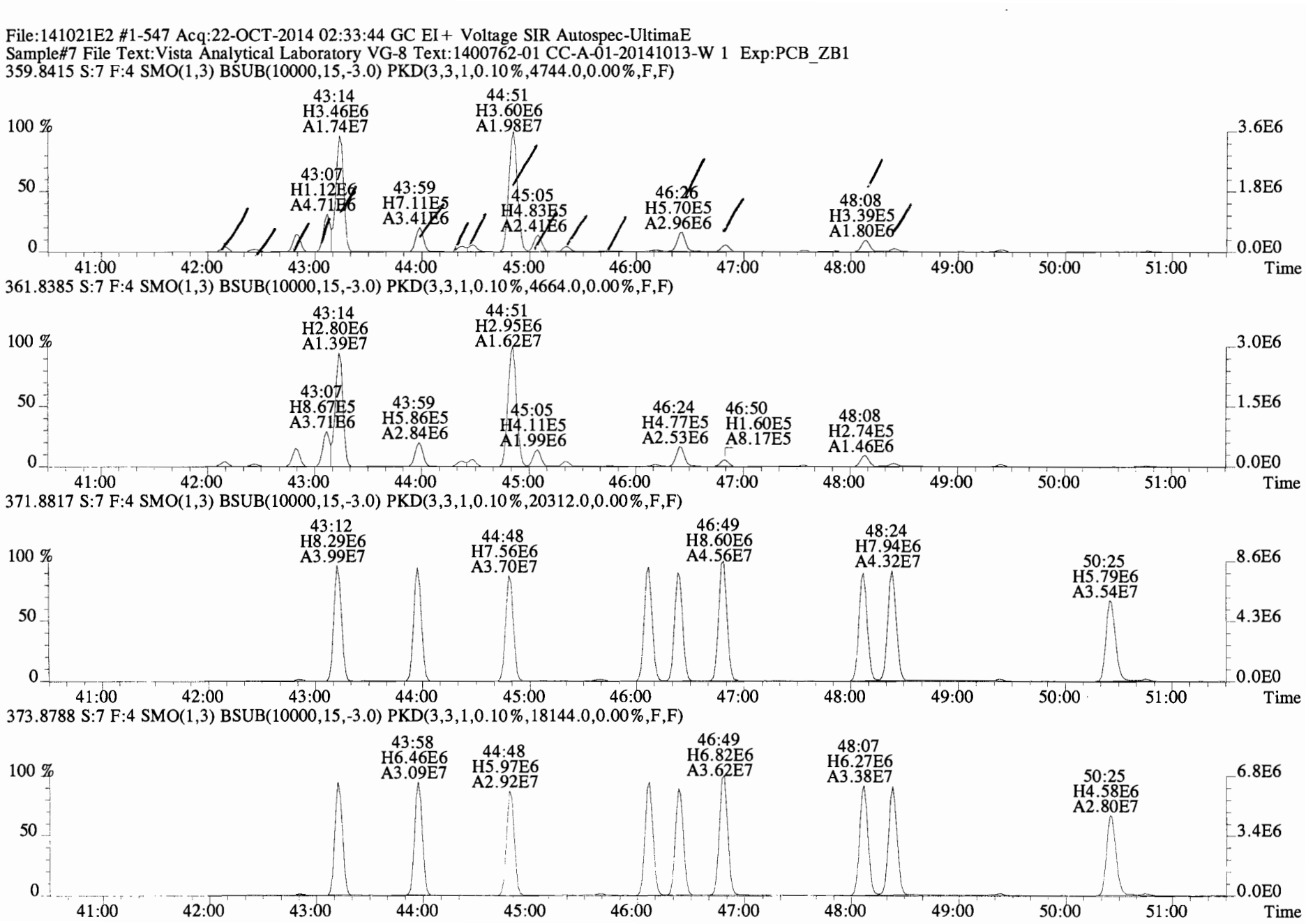
File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1788.0,0.00%,F,F)



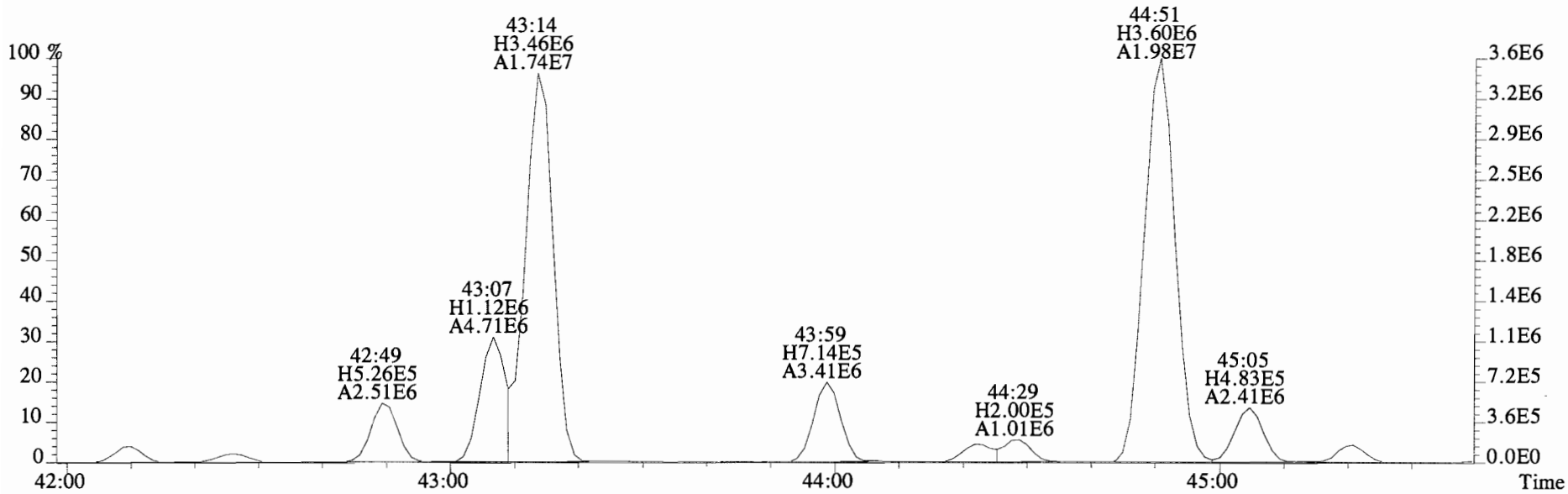
361.8385 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1620.0,0.00%,F,F)



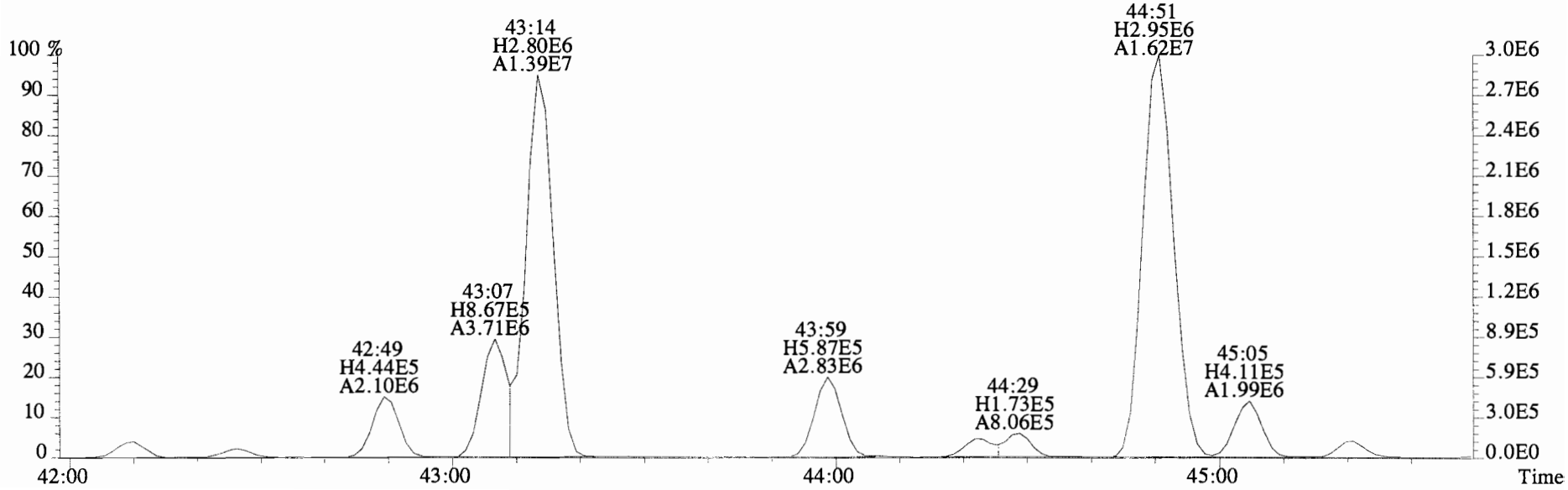

File:141021E2 #1-761 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1788.0,0.00%,F,F)
x5.00
39:33
H3.30E5
A1.56E6
40:08
H3.39E4
A1.43E5
41:01
H2.91E5
A1.38E6
41:06
H1.13E5
A5.03E5
41:14
H4.04E4
A1.97E5
Time
361.8385 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1620.0,0.00%,F,F)
x5.00
39:33
H2.59E5
A1.20E6
40:08
H3.13E4
A1.32E5
41:01
H2.41E5
A1.16E6
41:06
H8.87E4
A4.02E5
41:14
H3.64E4
A1.79E5
Time

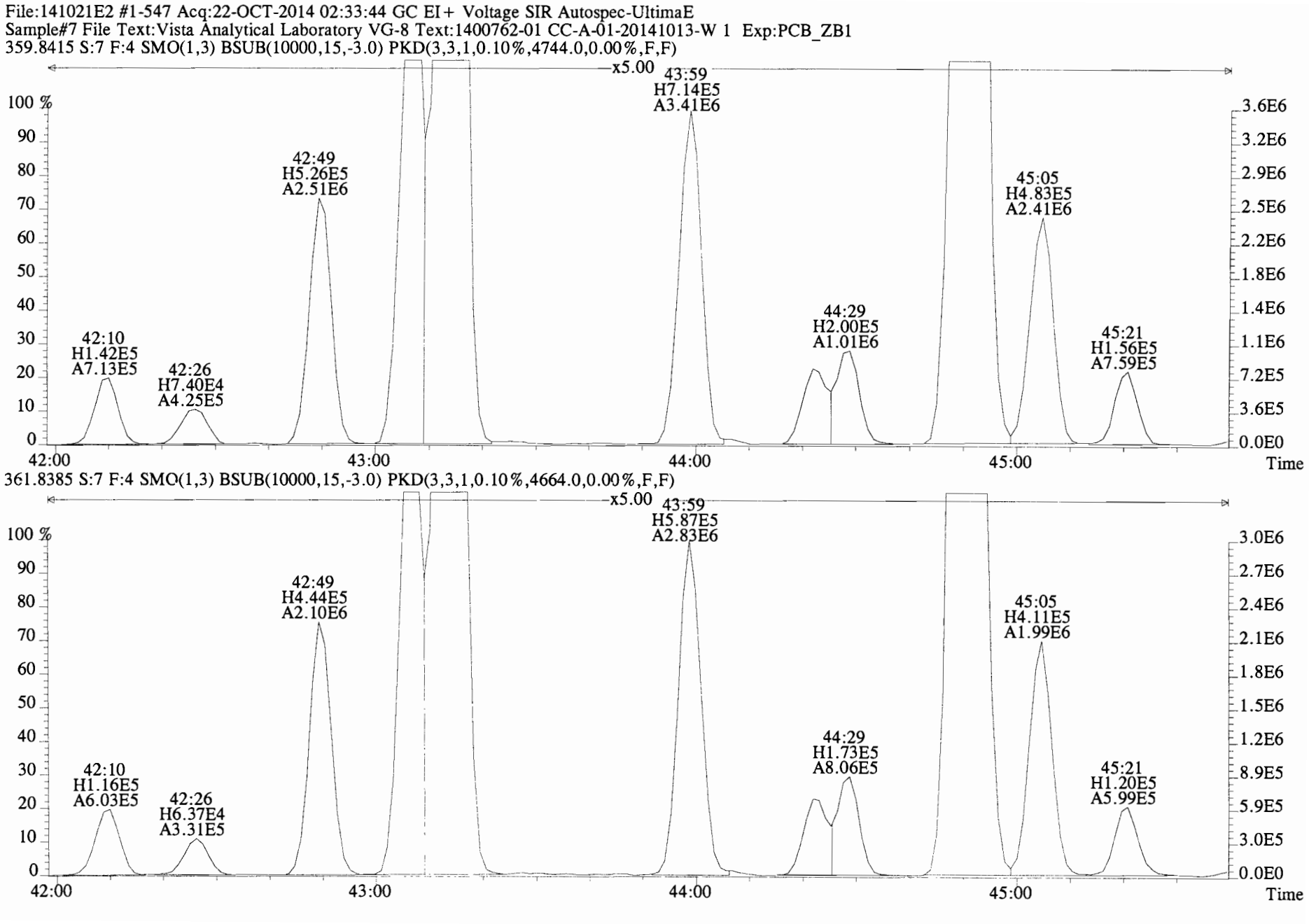

File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4744.0,0.00%,F,F)
43:14 H3.46E6 A1.74E7
44:51 H3.60E6 A1.98E7
43:07 H1.12E6 A4.71E6
43:59 H7.11E5 A3.41E6
45:05 H4.83E5 A2.41E6
46:26 H5.70E5 A2.96E6
48:08 H3.39E5 A1.80E6
361.8385 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4664.0,0.00%,F,F)
43:14 H2.80E6 A1.39E7
44:51 H2.95E6 A1.62E7
43:07 H8.67E5 A3.71E6
43:59 H5.86E5 A2.84E6
45:05 H4.11E5 A1.99E6
46:24 H4.77E5 A2.53E6
46:50 H1.60E5 A8.17E5
48:08 H2.74E5 A1.46E6
371.8817 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20312.0,0.00%,F,F)
43:12 H8.29E6 A3.99E7
44:48 H7.56E6 A3.70E7
46:49 H8.60E6 A4.56E7
48:24 H7.94E6 A4.32E7
50:25 H5.79E6 A3.54E7
373.8788 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,18144.0,0.00%,F,F)
43:58 H6.46E6 A3.09E7
44:48 H5.97E6 A2.92E7
46:49 H6.82E6 A3.62E7
48:07 H6.27E6 A3.38E7
50:25 H4.58E6 A2.80E7
100 %
50
0
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
51:00
Time
3.6E6
1.8E6
0.0E0
3.0E6
1.5E6
0.0E0
8.6E6
4.3E6
0.0E0
6.8E6
3.4E6
0.0E0

File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4744.0,0.00%,F,F)

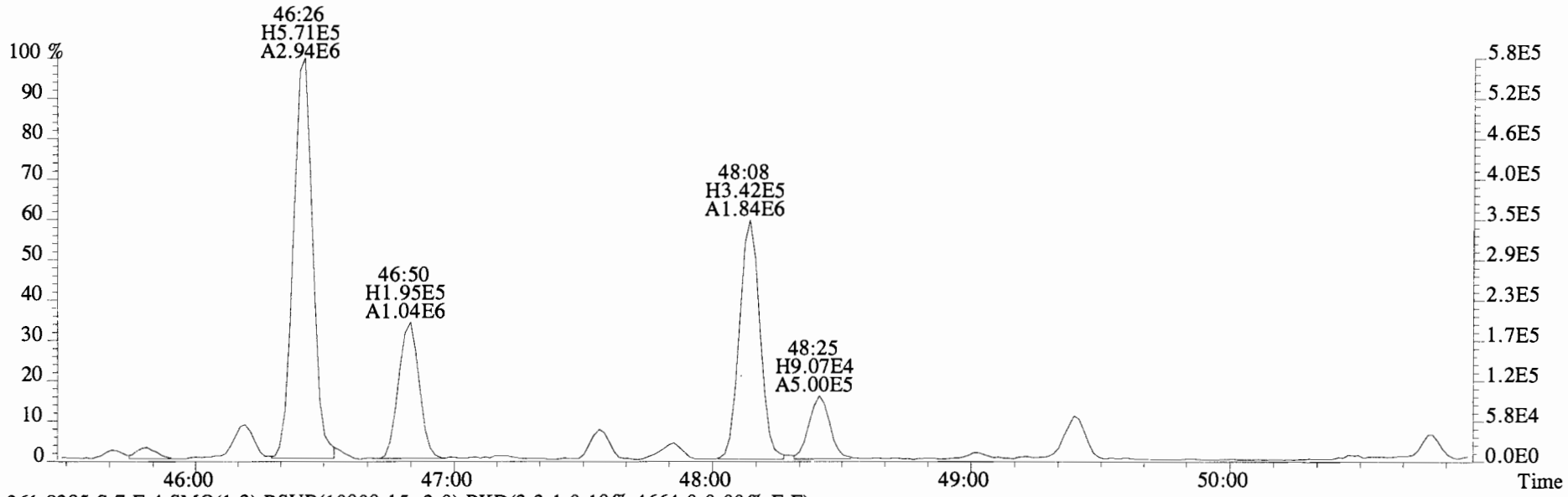


361.8385 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4664.0,0.00%,F,F)

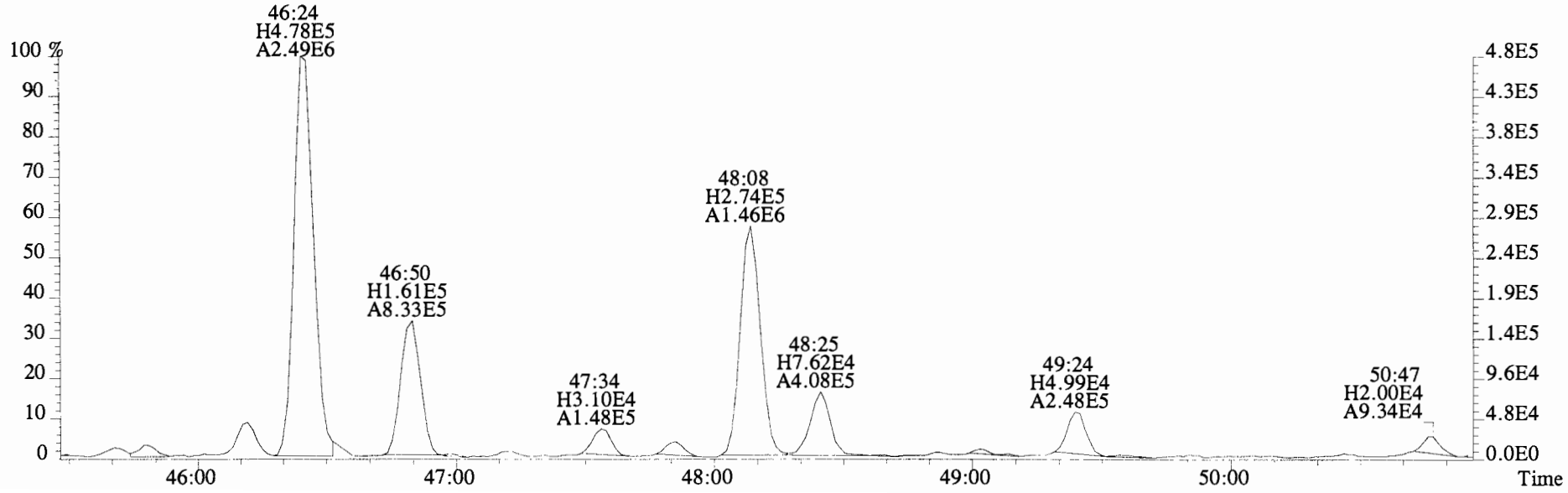



File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4744.0,0.00%,F,F)
x5.00
42:10 H1.42E5 A7.13E5
42:26 H7.40E4 A4.25E5
42:49 H5.26E5 A2.51E6
43:59 H7.14E5 A3.41E6
44:29 H2.00E5 A1.01E6
45:05 H4.83E5 A2.41E6
45:21 H1.56E5 A7.59E5
100 %
90
80
70
60
50
40
30
20
10
0
3.6E6
3.2E6
2.9E6
2.5E6
2.2E6
1.8E6
1.4E6
1.1E6
7.2E5
3.6E5
0.0E0
42:00
43:00
44:00
45:00
Time
361.8385 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4664.0,0.00%,F,F)
x5.00
42:10 H1.16E5 A6.03E5
42:26 H6.37E4 A3.31E5
42:49 H4.44E5 A2.10E6
43:59 H5.87E5 A2.83E6
44:29 H1.73E5 A8.06E5
45:05 H4.11E5 A1.99E6
45:21 H1.20E5 A5.99E5
100 %
90
80
70
60
50
40
30
20
10
0
3.0E6
2.7E6
2.4E6
2.1E6
1.8E6
1.5E6
1.2E6
8.9E5
5.9E5
3.0E5
0.0E0
42:00
43:00
44:00
45:00
Time

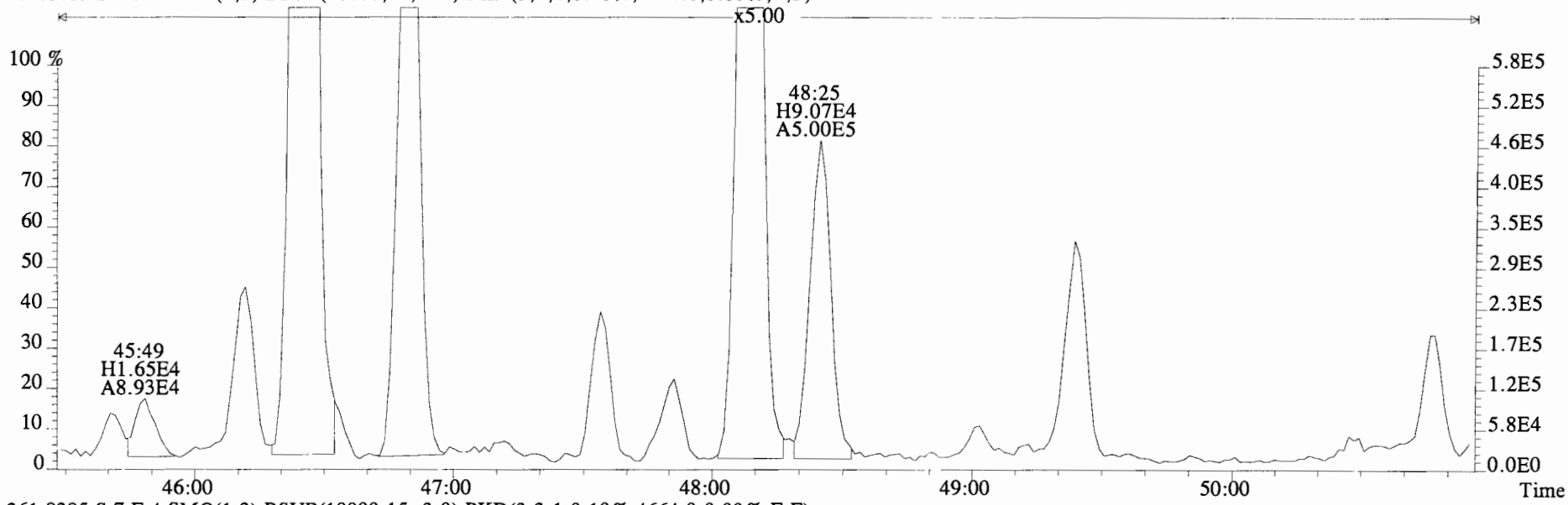
File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4744.0,0.00%,F,F)



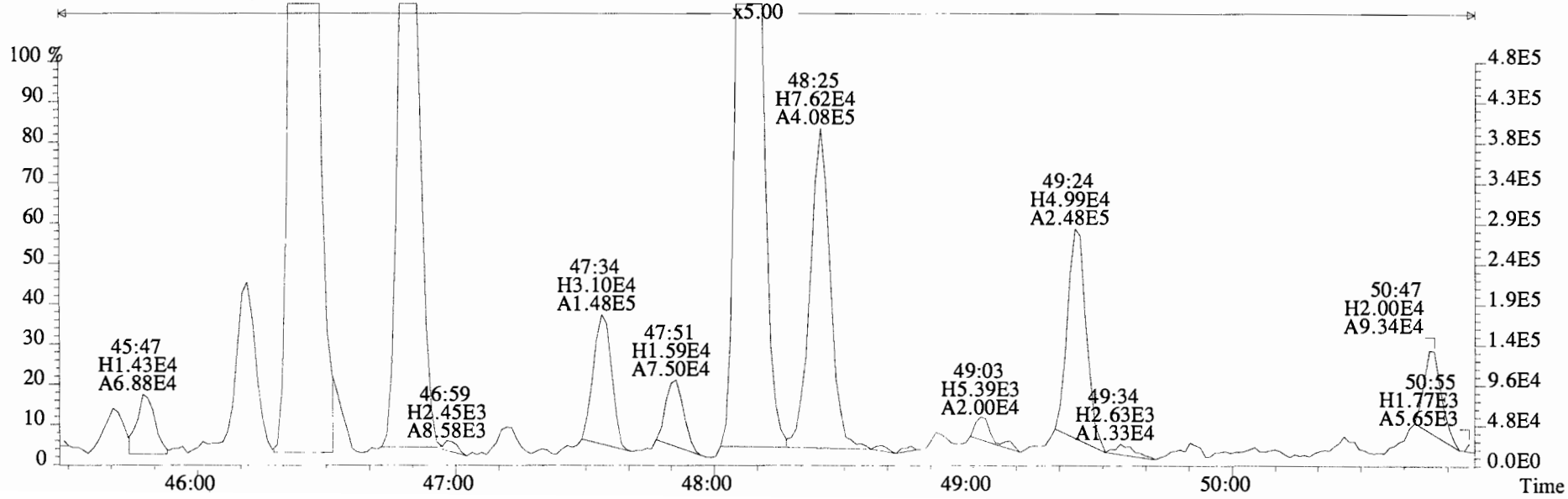
361.8385 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4664.0,0.00%,F,F)



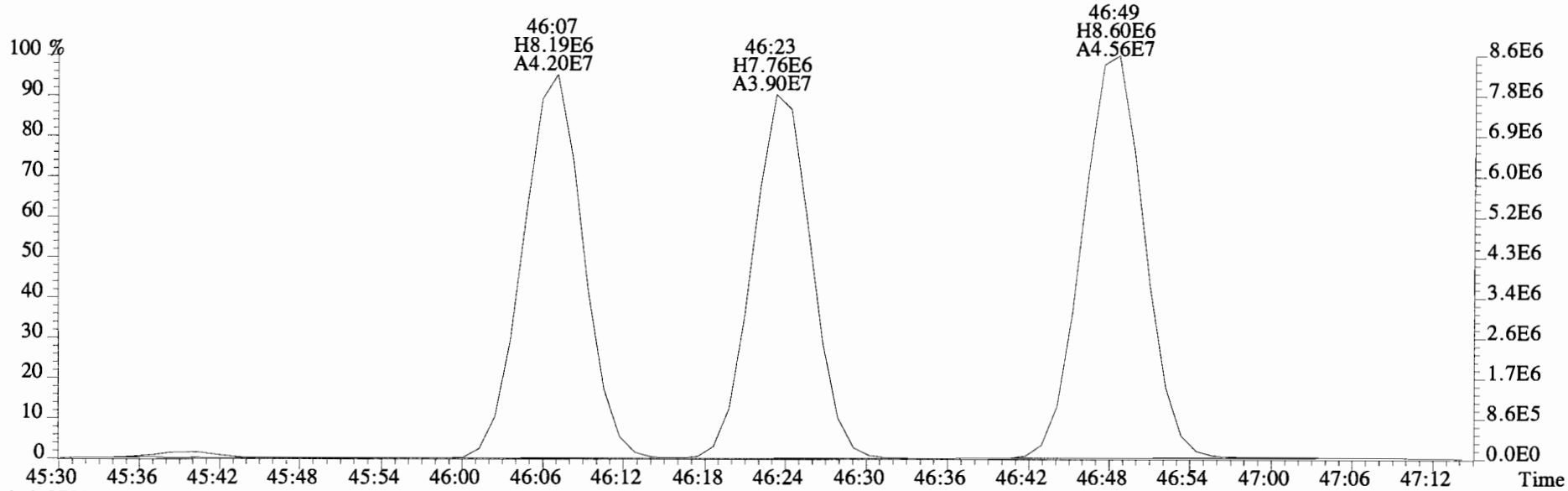
File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4744.0,0.00%,F,F)



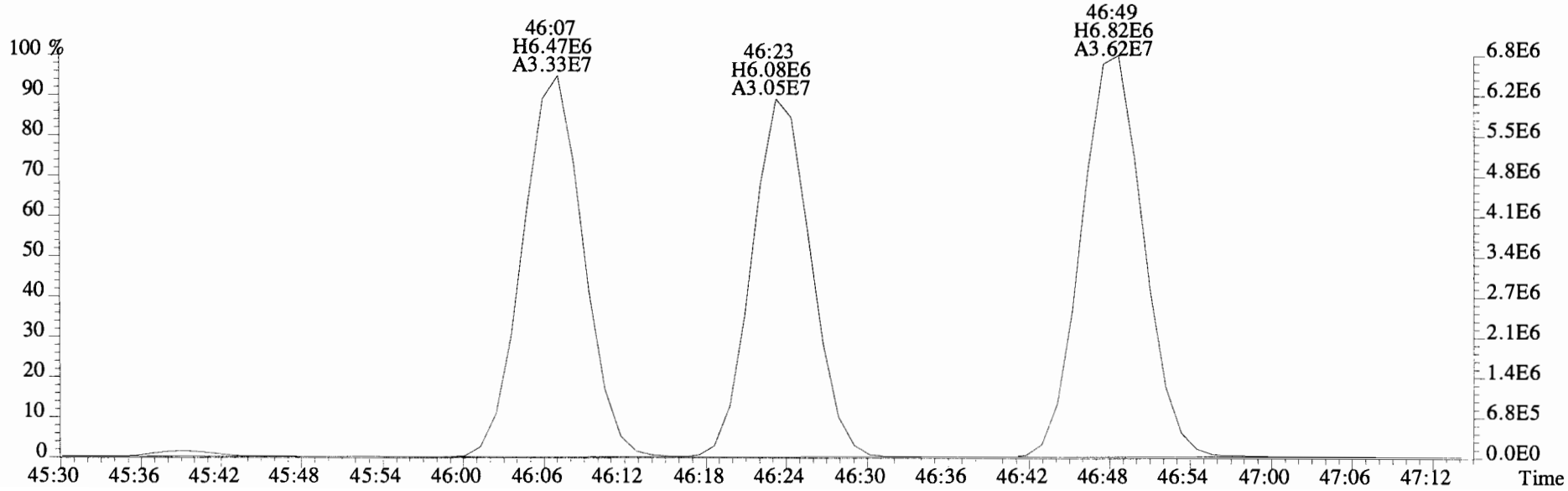
361.8385 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4664.0,0.00%,F,F)



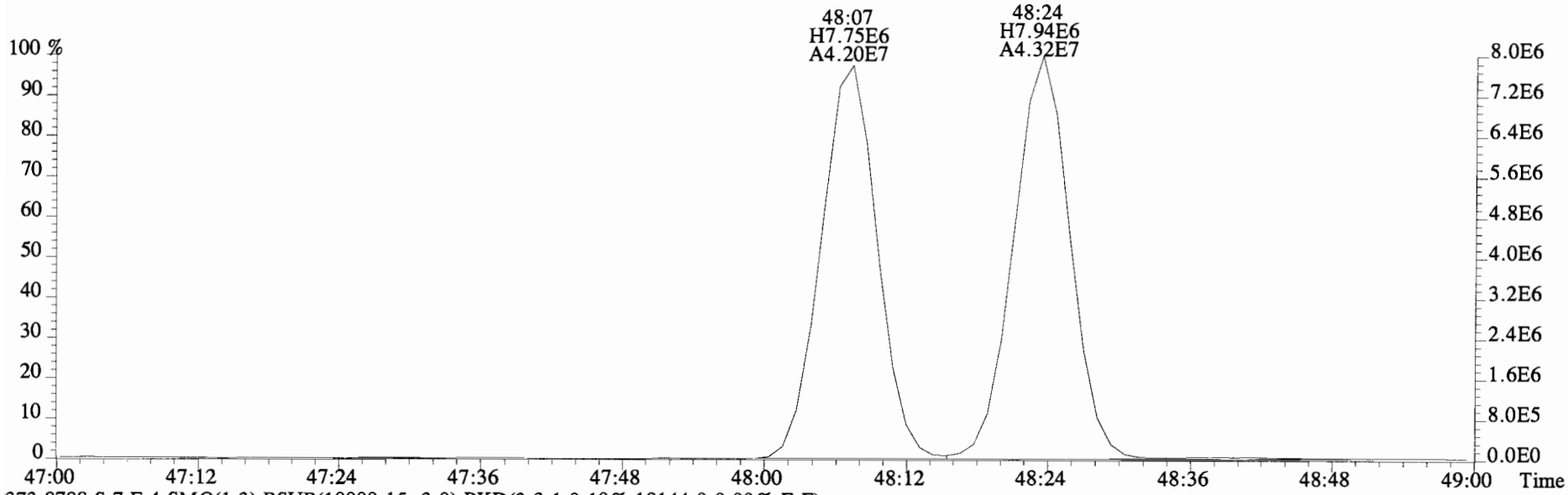
File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
371.8817 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20312.0,0.00%,F,F)



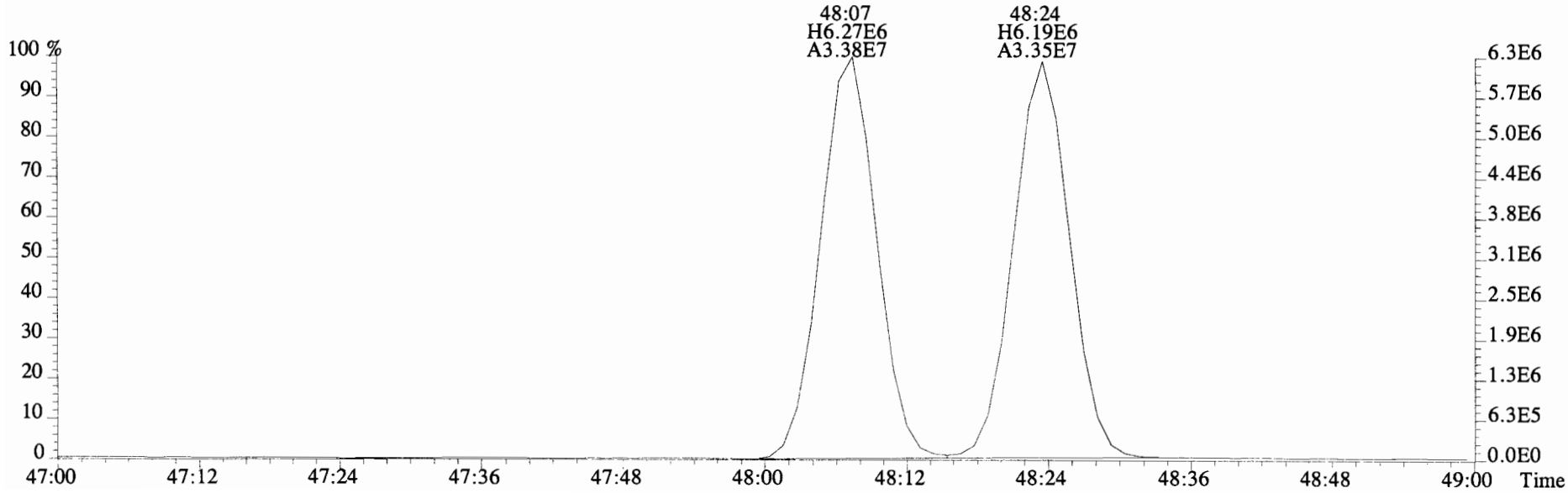
373.8788 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,18144.0,0.00%,F,F)



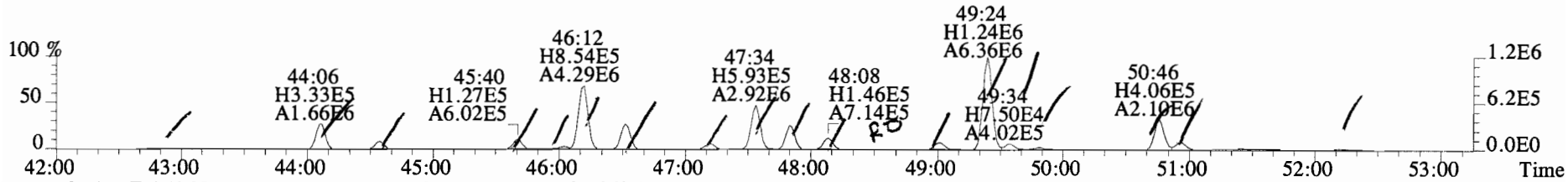
File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
371.8817 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20312.0,0.00%,F,F)



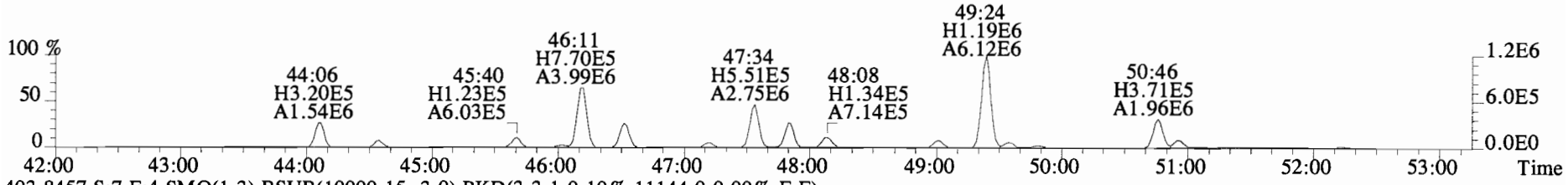
373.8788 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,18144.0,0.00%,F,F)



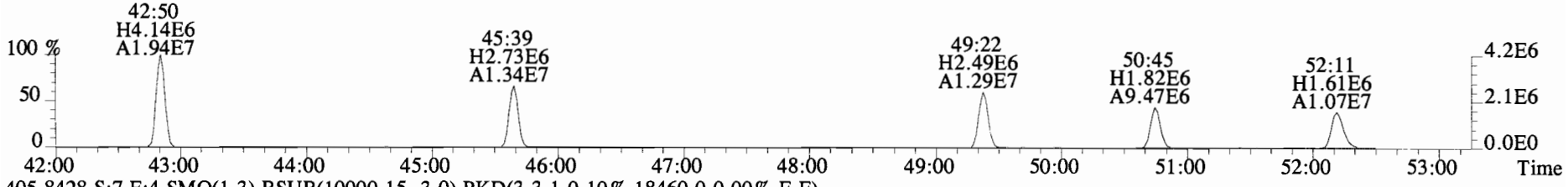
File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2148.0,0.00%,F,F)



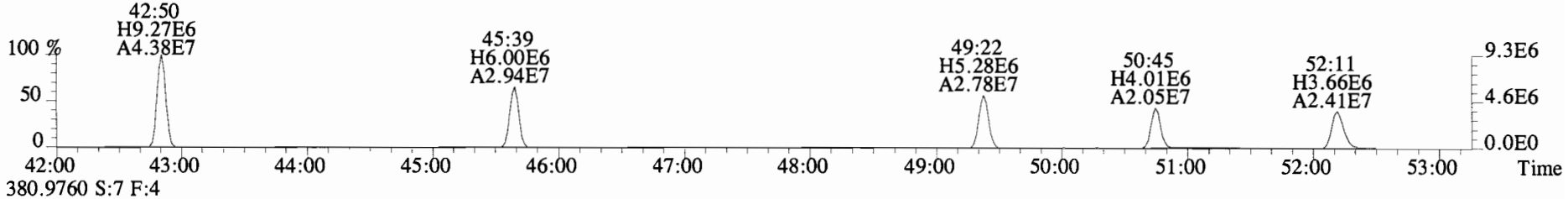
395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1848.0,0.00%,F,F)



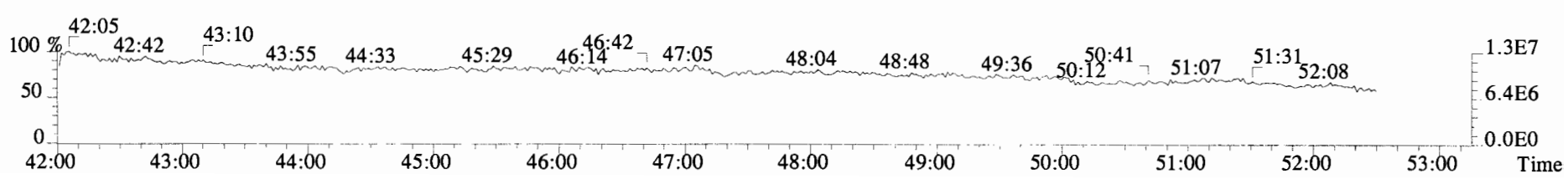
403.8457 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11144.0,0.00%,F,F)



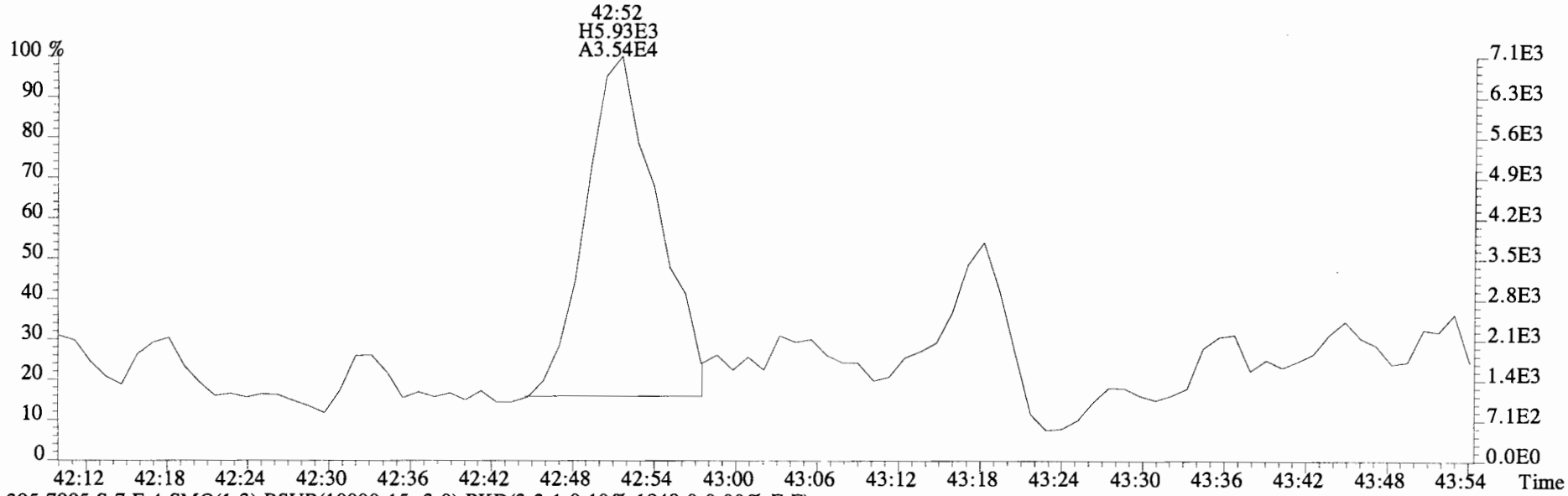
405.8428 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,18460.0,0.00%,F,F)



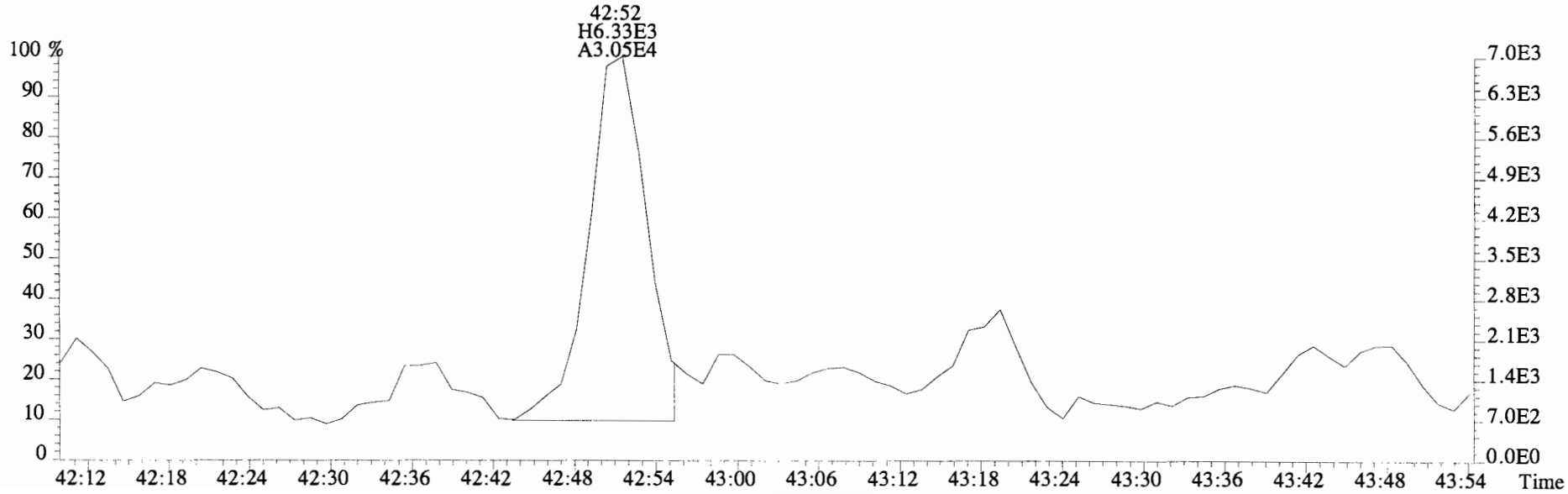
380.9760 S:7 F:4

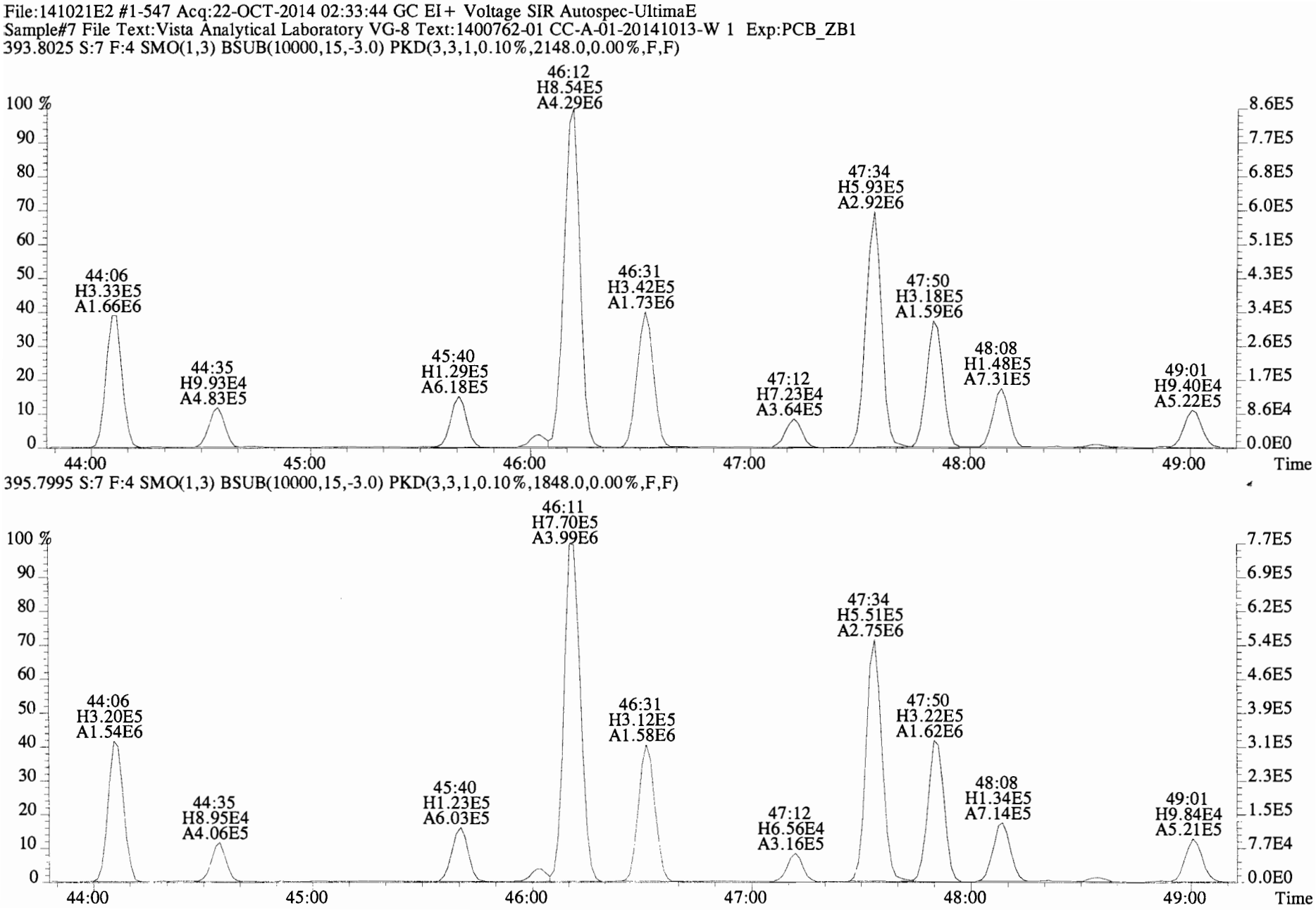


File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2148.0,0.00%,F,F)

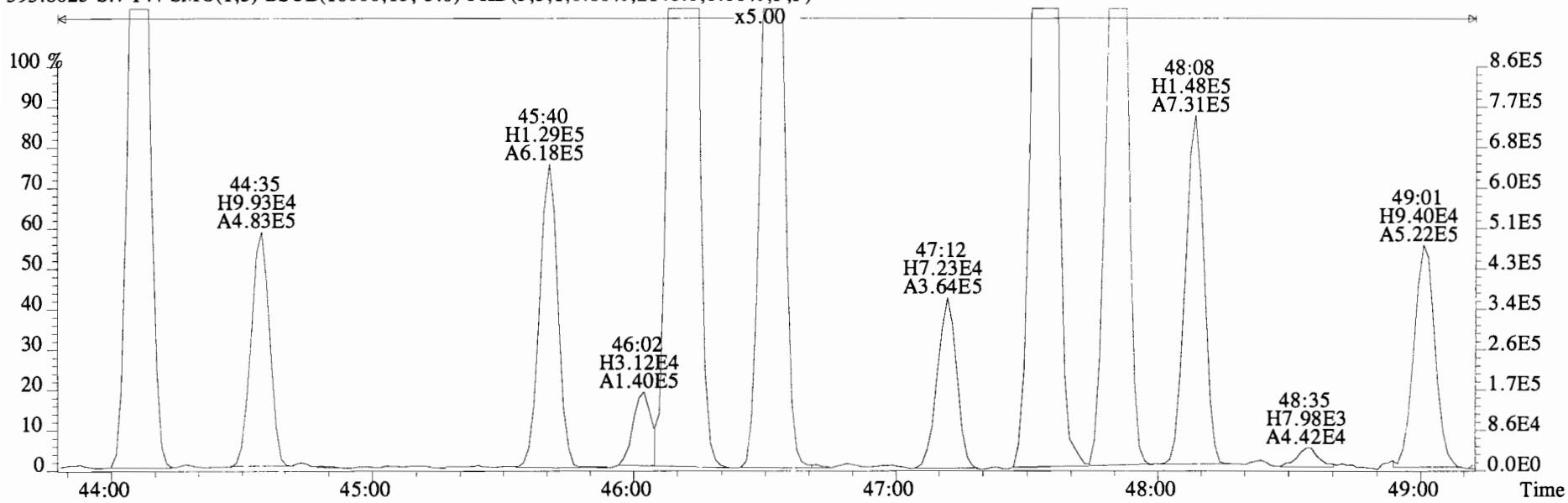


395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1848.0,0.00%,F,F)

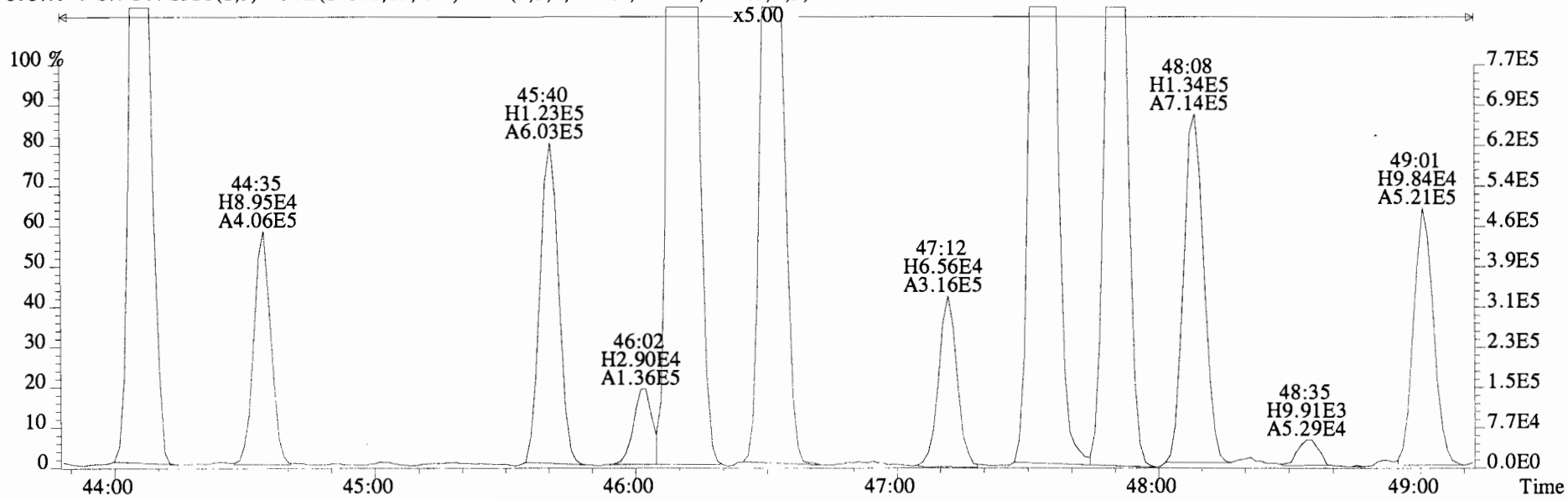



File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2148.0,0.00%,F,F)
46:12 H8.54E5 A4.29E6
44:06 H3.33E5 A1.66E6
44:35 H9.93E4 A4.83E5
45:40 H1.29E5 A6.18E5
46:31 H3.42E5 A1.73E6
47:12 H7.23E4 A3.64E5
47:34 H5.93E5 A2.92E6
47:50 H3.18E5 A1.59E6
48:08 H1.48E5 A7.31E5
49:01 H9.40E4 A5.22E5
100 %
90
80
70
60
50
40
30
20
10
0
8.6E5
7.7E5
6.8E5
6.0E5
5.1E5
4.3E5
3.4E5
2.6E5
1.7E5
8.6E4
0.0E0
44:00
45:00
46:00
47:00
48:00
49:00
Time
395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1848.0,0.00%,F,F)
46:11 H7.70E5 A3.99E6
44:06 H3.20E5 A1.54E6
44:35 H8.95E4 A4.06E5
45:40 H1.23E5 A6.03E5
46:31 H3.12E5 A1.58E6
47:12 H6.56E4 A3.16E5
47:34 H5.51E5 A2.75E6
47:50 H3.22E5 A1.62E6
48:08 H1.34E5 A7.14E5
49:01 H9.84E4 A5.21E5
100 %
90
80
70
60
50
40
30
20
10
0
7.7E5
6.9E5
6.2E5
5.4E5
4.6E5
3.9E5
3.1E5
2.3E5
1.5E5
7.7E4
0.0E0
44:00
45:00
46:00
47:00
48:00
49:00
Time

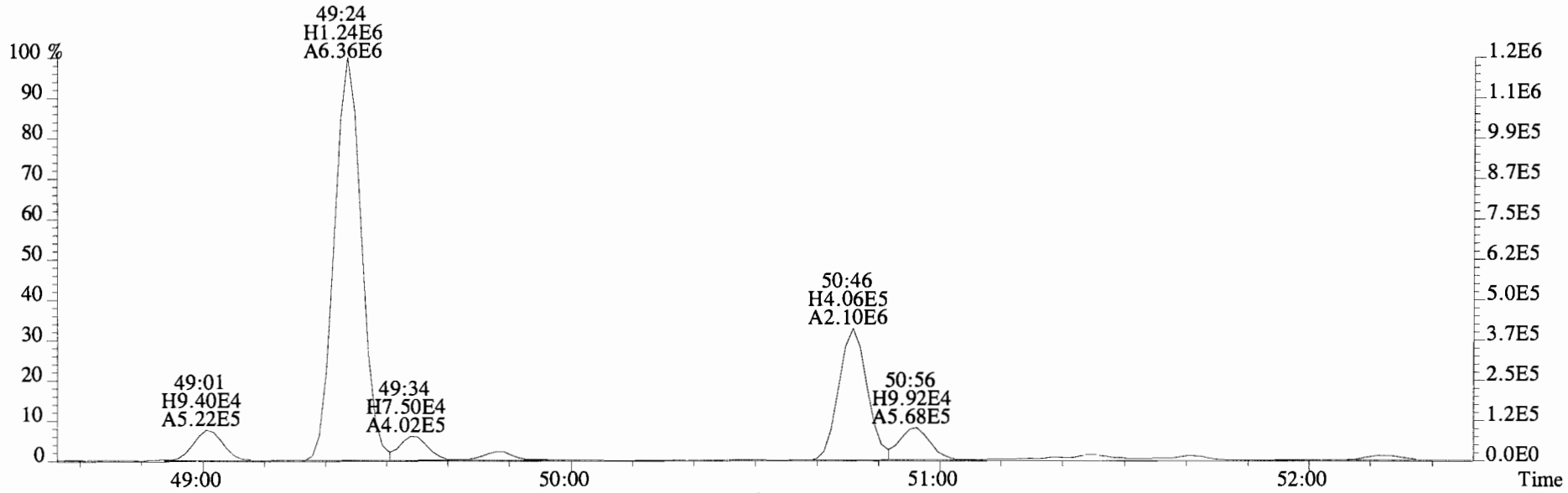
File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2148.0,0.00%,F,F)



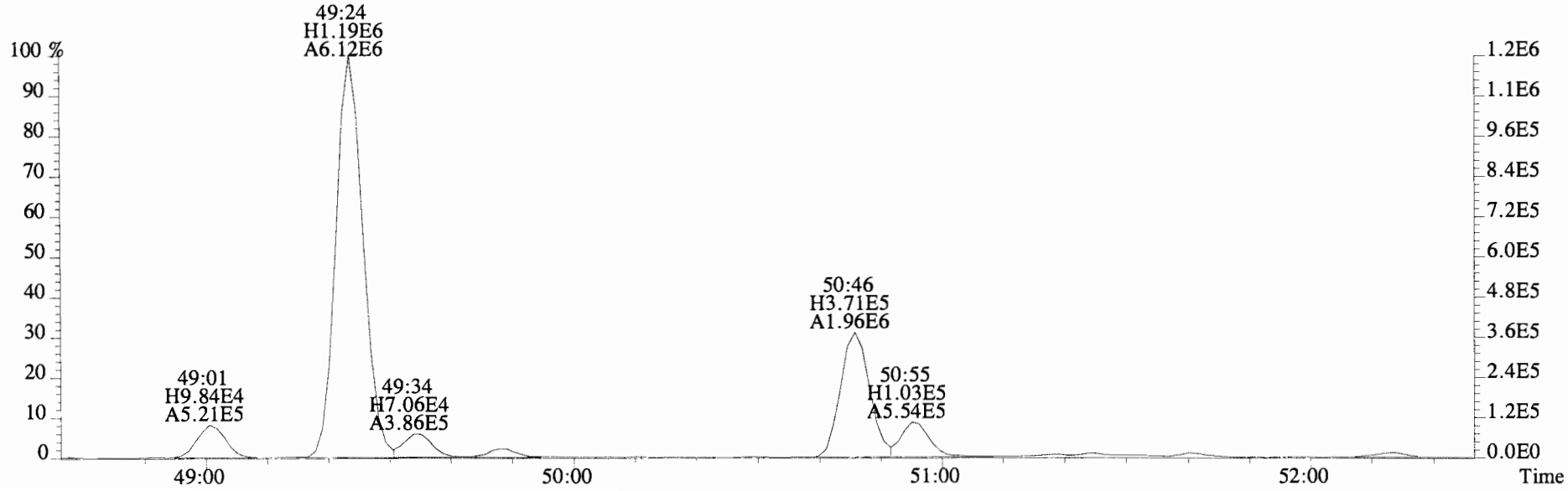
395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1848.0,0.00%,F,F)



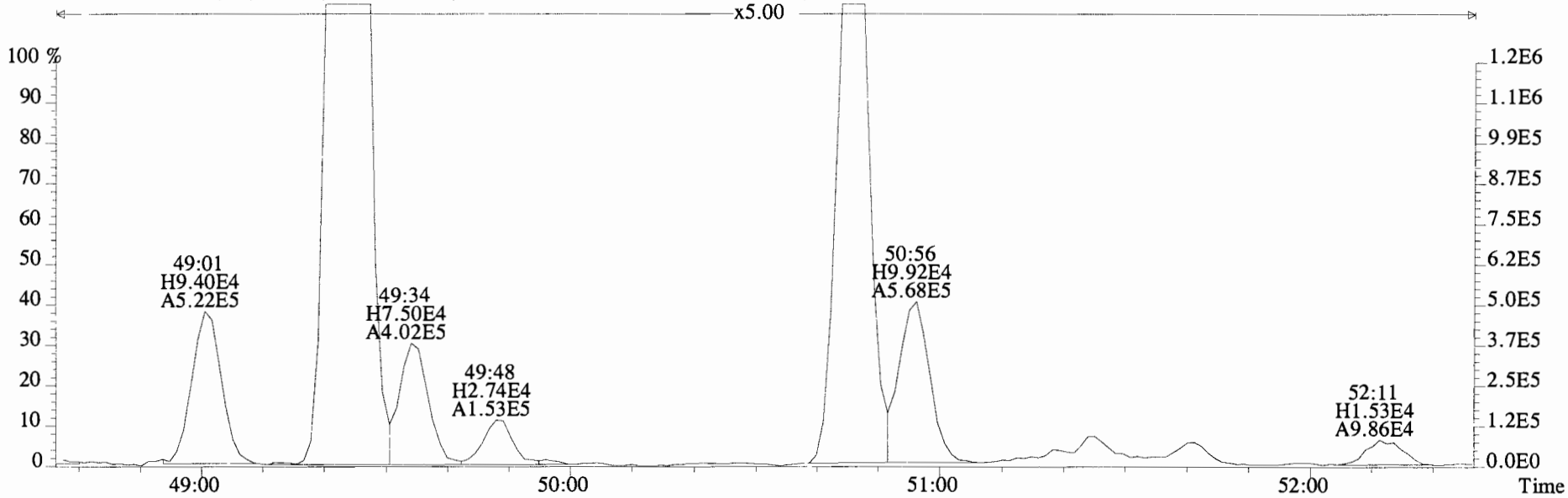
File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2148.0,0.00%,F,F)



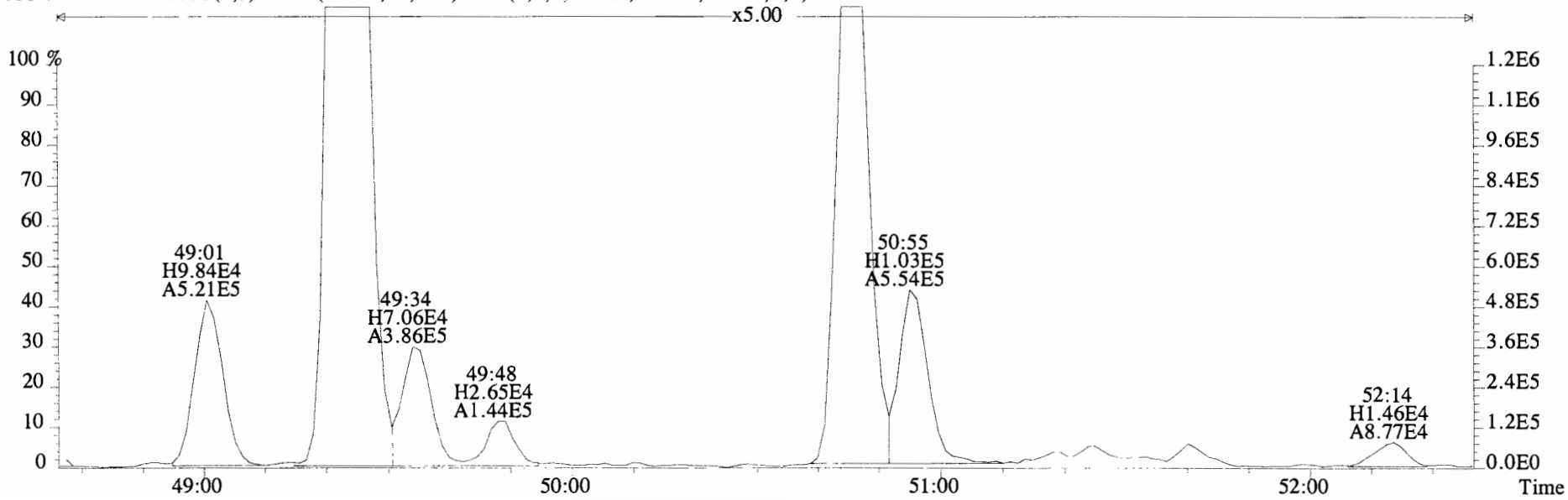
395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1848.0,0.00%,F,F)

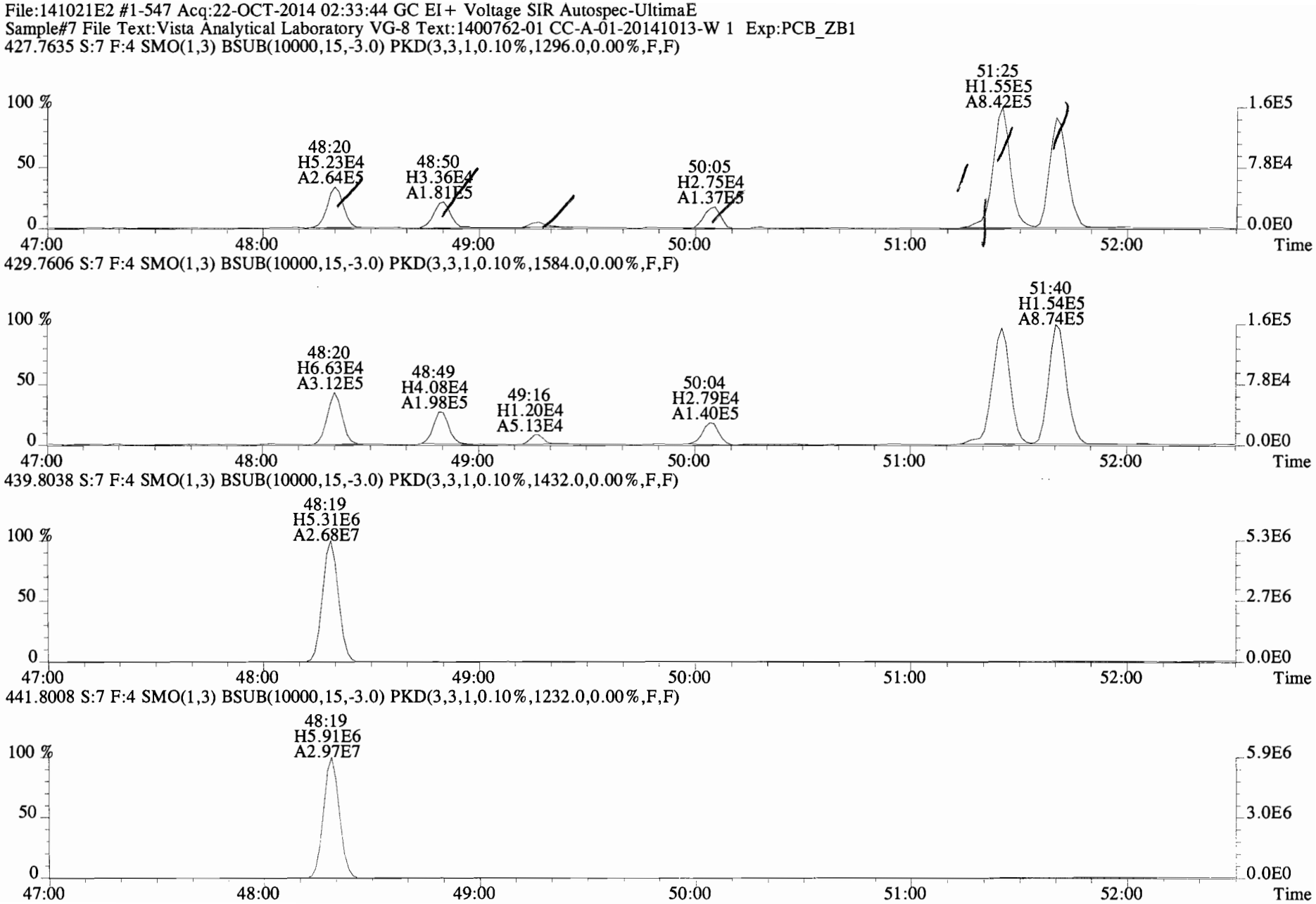


File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2148.0,0.00%,F,F)

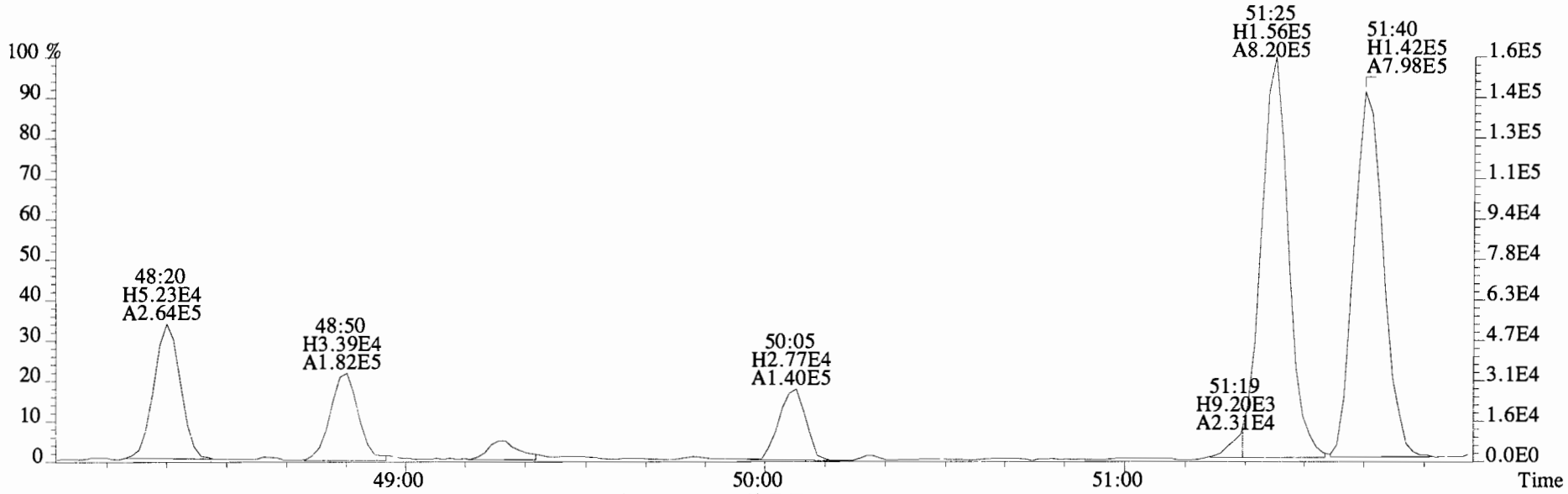


395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1848.0,0.00%,F,F)

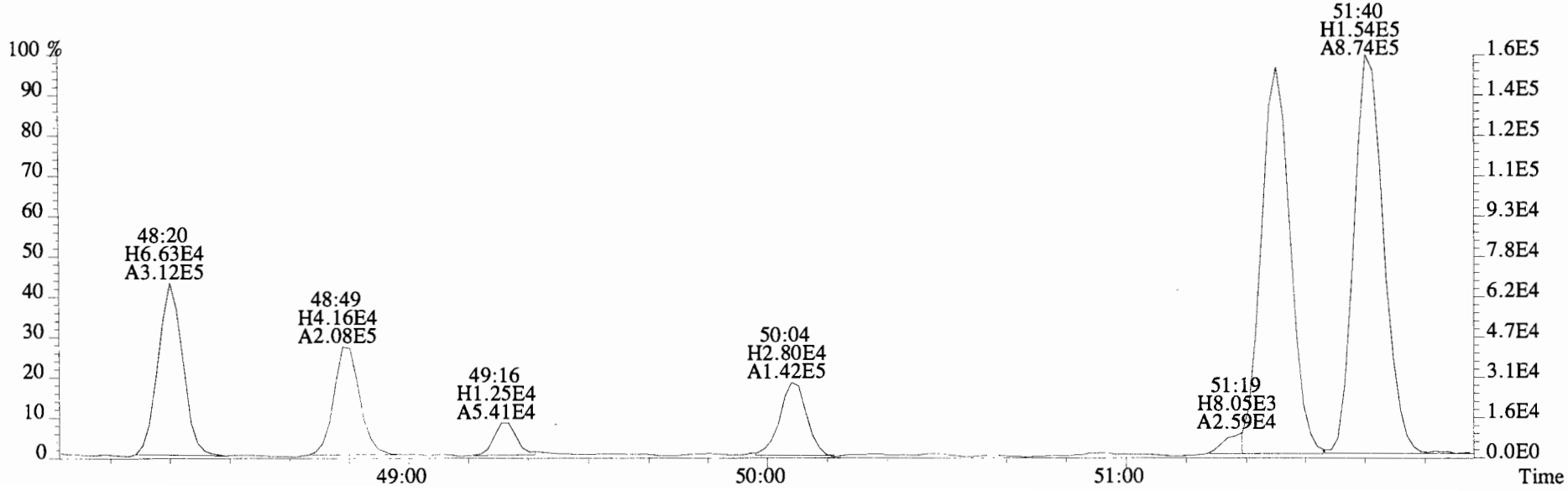



File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
427.7635 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1296.0,0.00%,F,F)
48:20 H5.23E4 A2.64E5
48:50 H3.36E4 A1.81E5
50:05 H2.75E4 A1.37E5
51:25 H1.55E5 A8.42E5
429.7606 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1584.0,0.00%,F,F)
48:20 H6.63E4 A3.12E5
48:49 H4.08E4 A1.98E5
49:16 H1.20E4 A5.13E4
50:04 H2.79E4 A1.40E5
51:40 H1.54E5 A8.74E5
439.8038 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1432.0,0.00%,F,F)
48:19 H5.31E6 A2.68E7
441.8008 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1232.0,0.00%,F,F)
48:19 H5.91E6 A2.97E7
100 %
50
0
47:00
48:00
49:00
50:00
51:00
52:00
Time
1.6E5
7.8E4
0.0E0
5.3E6
2.7E6
5.9E6
3.0E6

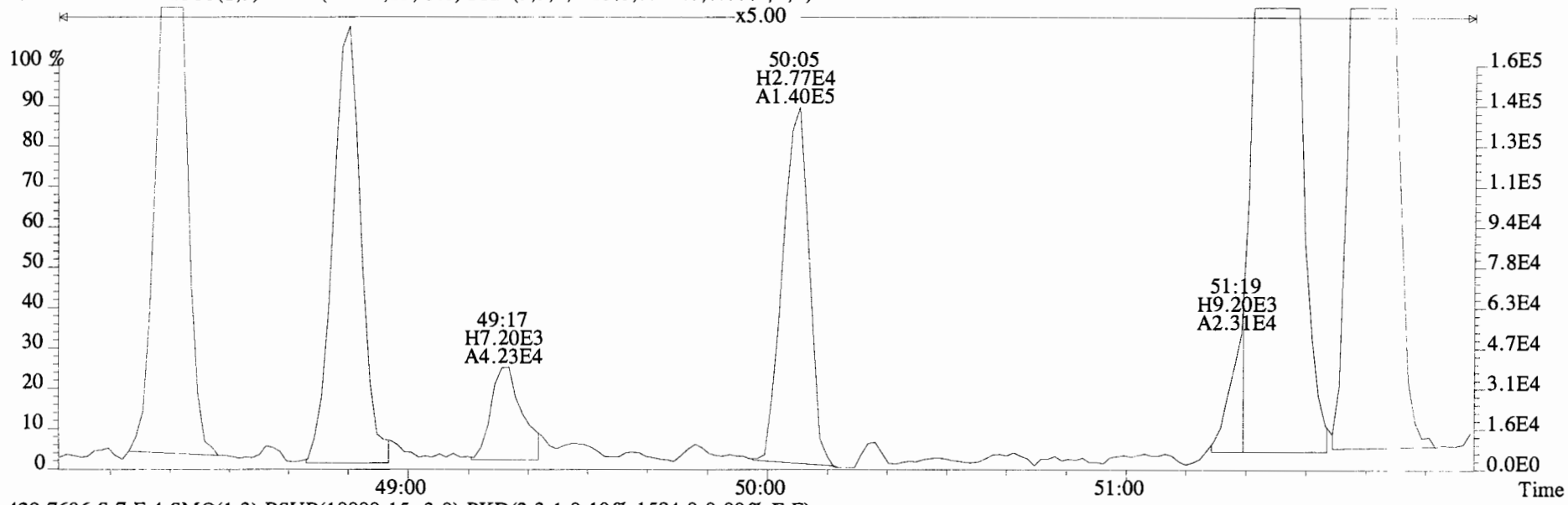
File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
427.7635 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1296.0,0.00%,F,F)



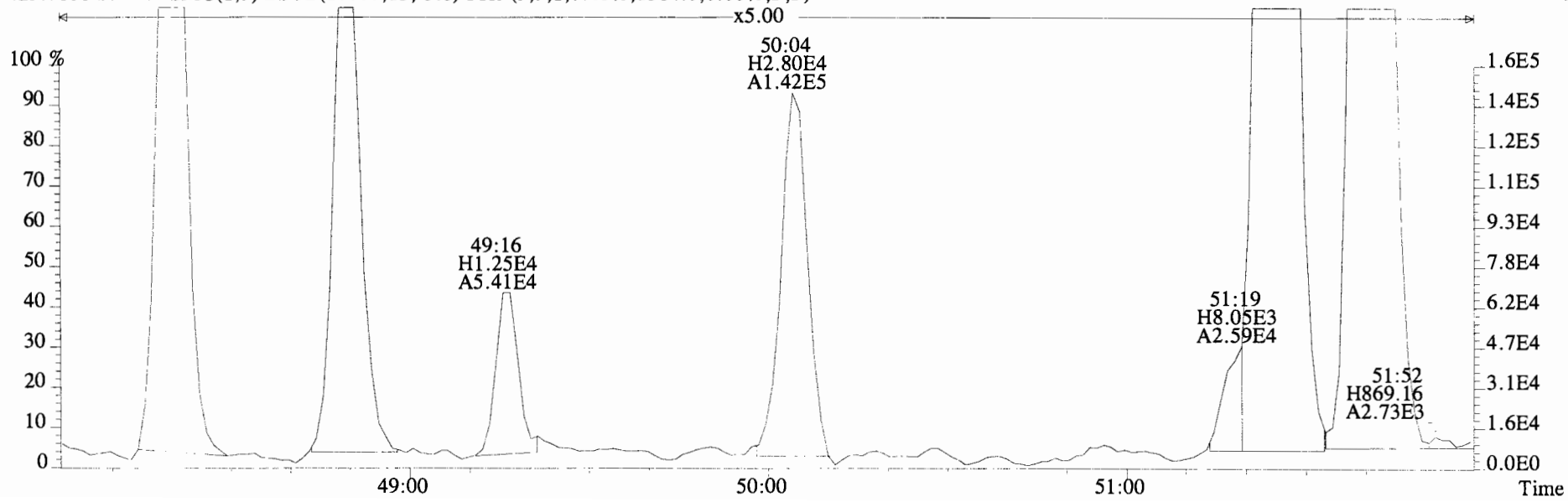
429.7606 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1584.0,0.00%,F,F)



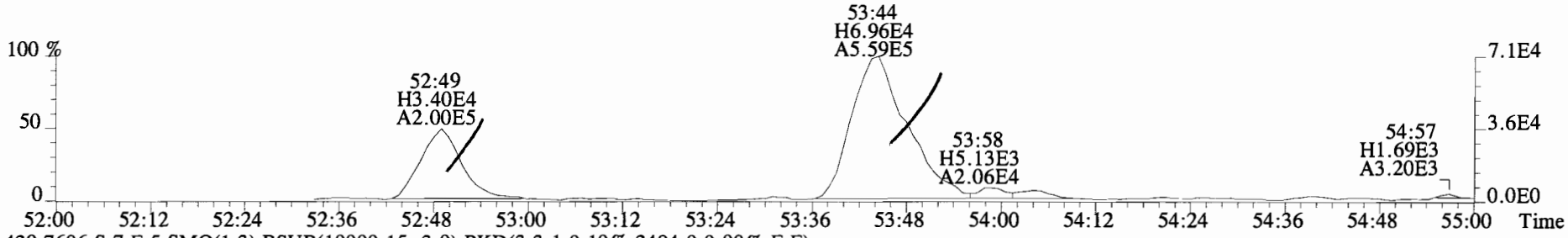
File:141021E2 #1-547 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
427.7635 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1296.0,0.00%,F,F)



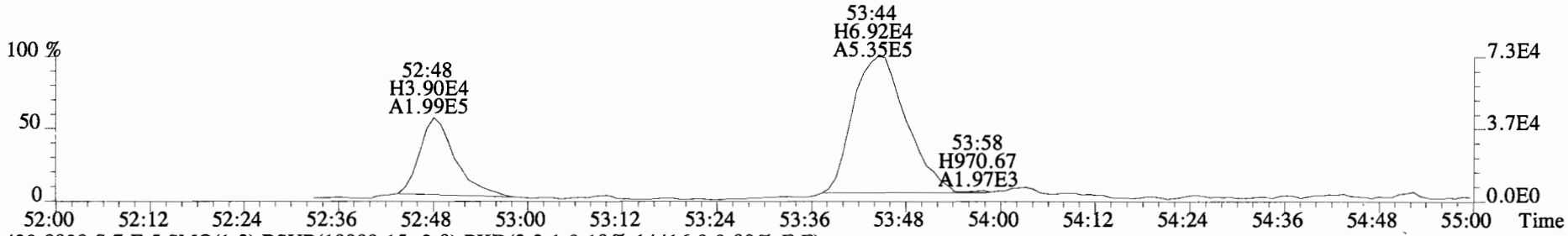
429.7606 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1584.0,0.00%,F,F)



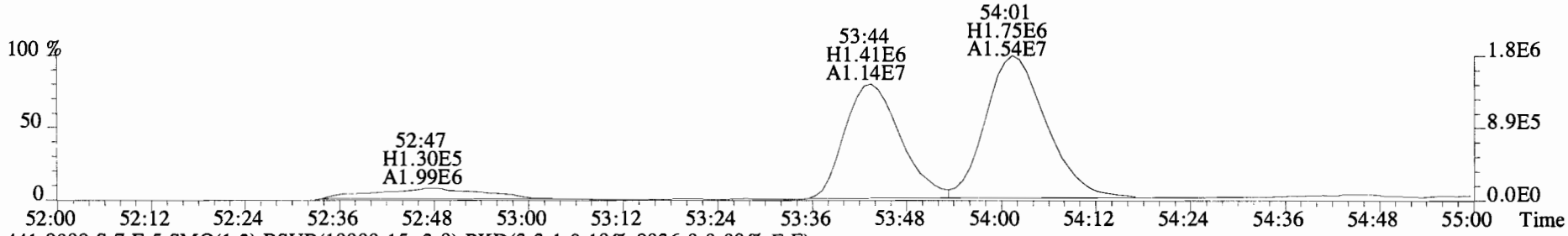
File:141021E2 #1-434 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
427.7635 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1644.0,0.00%,F,F)



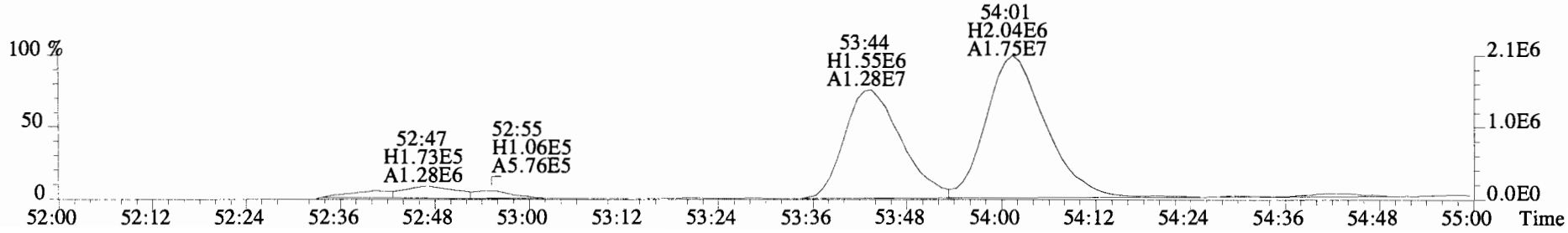
429.7606 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2484.0,0.00%,F,F)



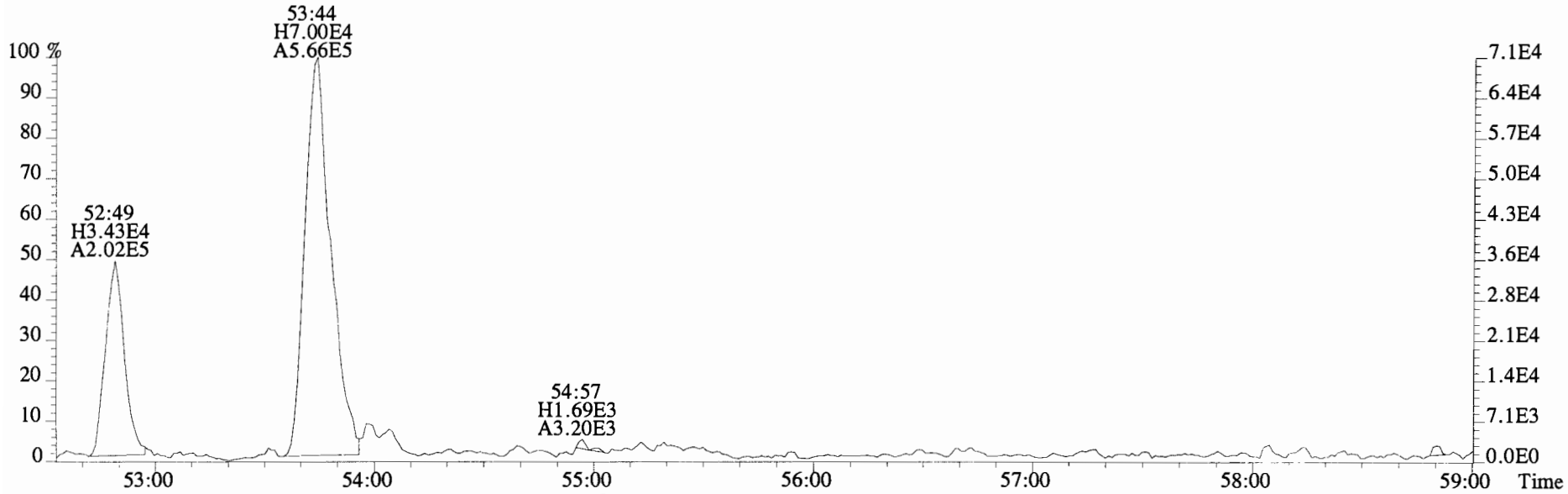
439.8038 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14416.0,0.00%,F,F)



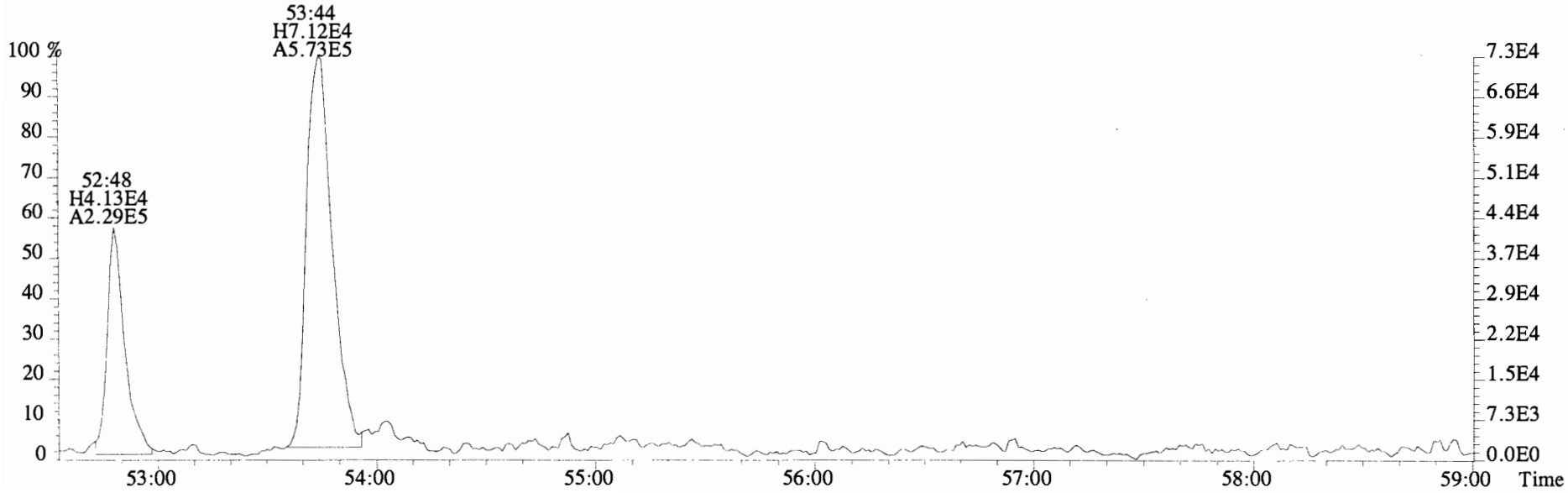
441.8008 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8036.0,0.00%,F,F)



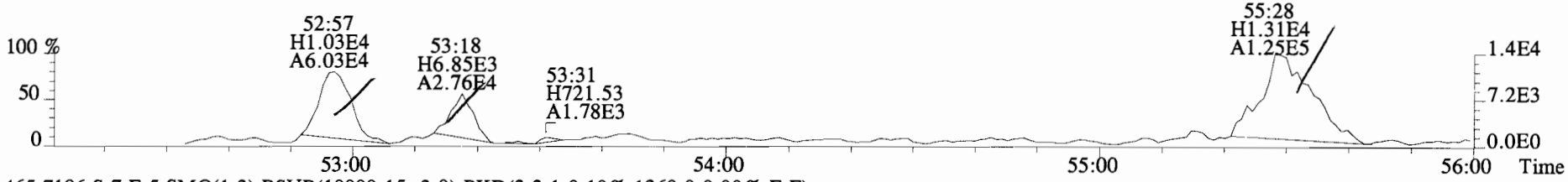
File:141021E2 #1-434 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
427.7635 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1644.0,0.00%,F,F)



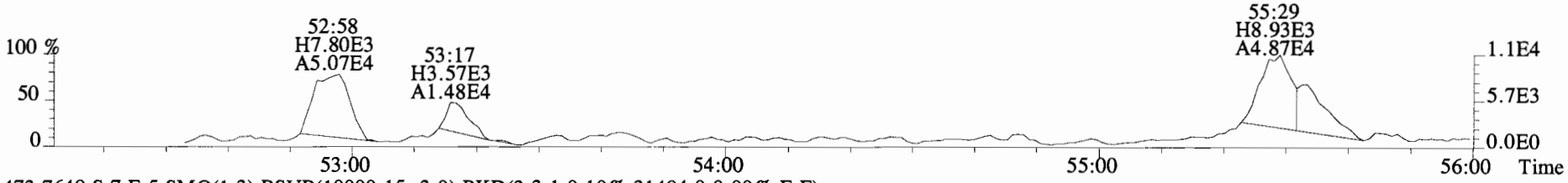
429.7606 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2484.0,0.00%,F,F)



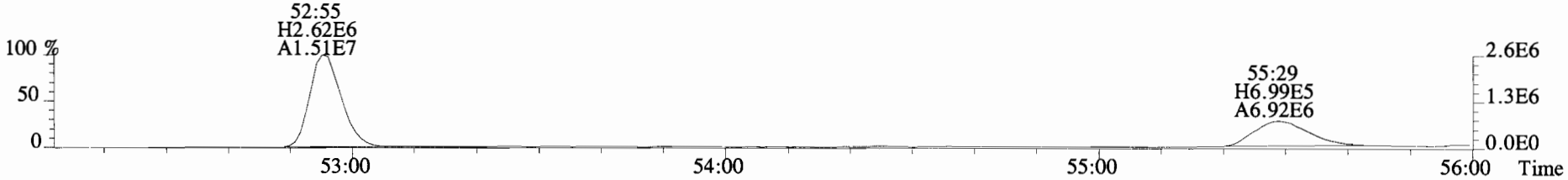
File:141021E2 #1-434 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
463.7216 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1296.0,0.00%,F,F)



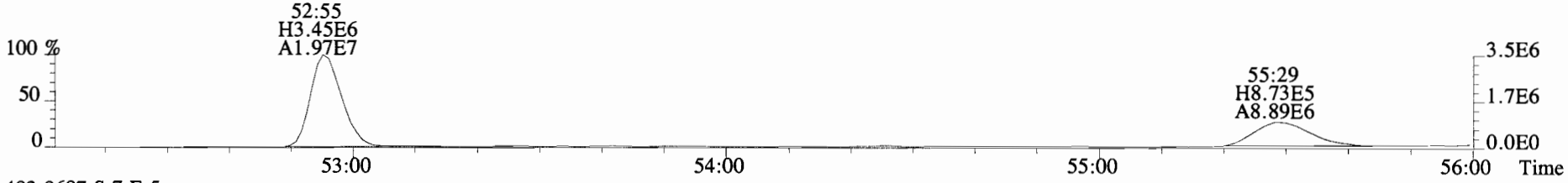
465.7186 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1260.0,0.00%,F,F)



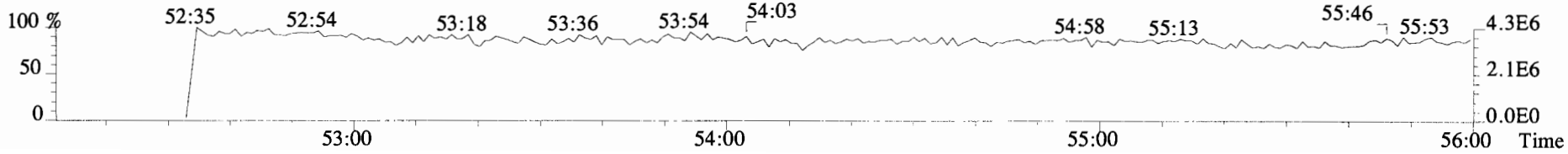
473.7648 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,31484.0,0.00%,F,F)



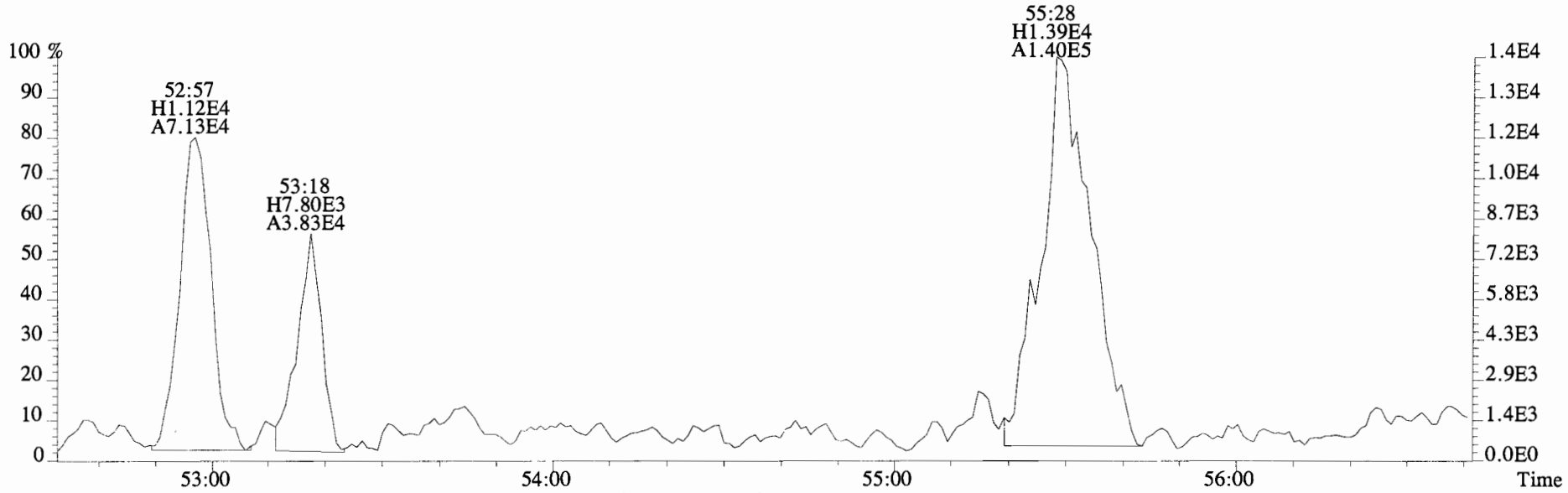
475.7619 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41136.0,0.00%,F,F)



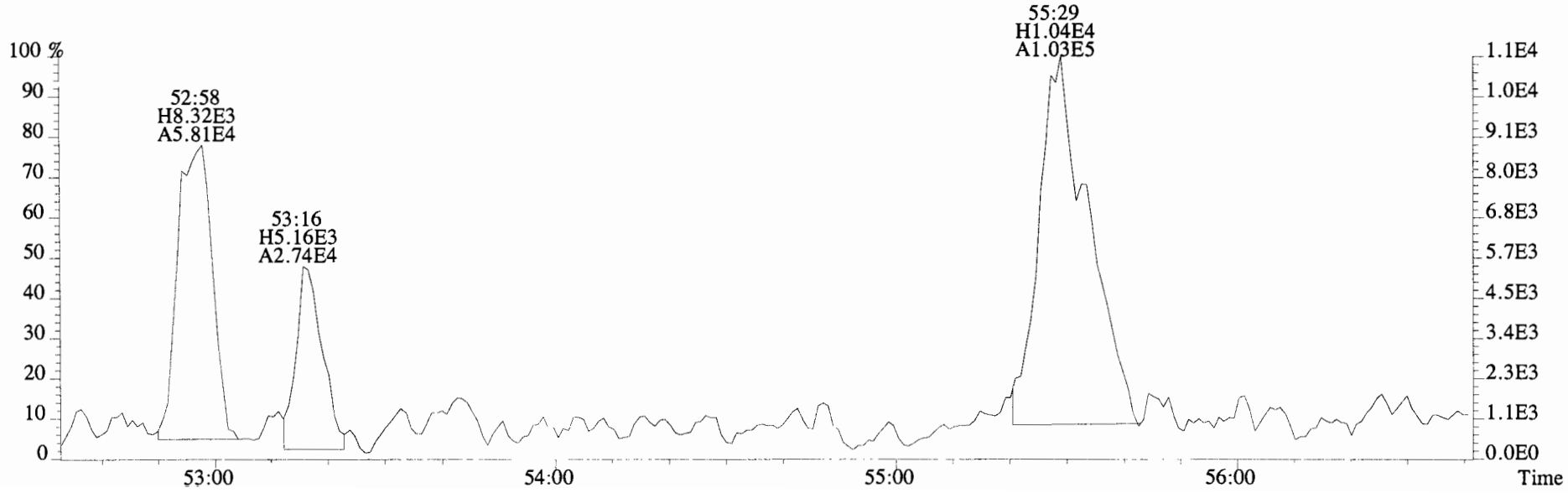
492.9697 S:7 F:5



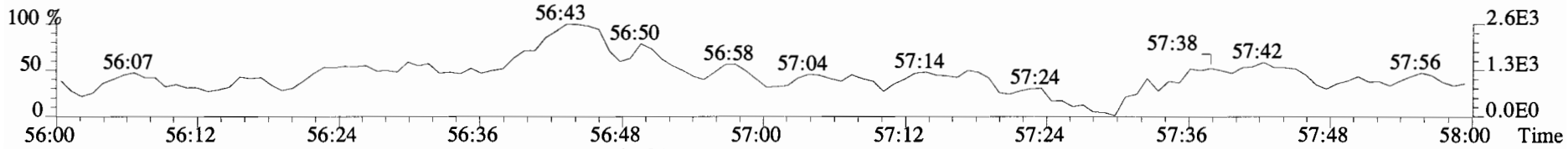
File:141021E2 #1-434 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
463.7216 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1296.0,0.00%,F,F)



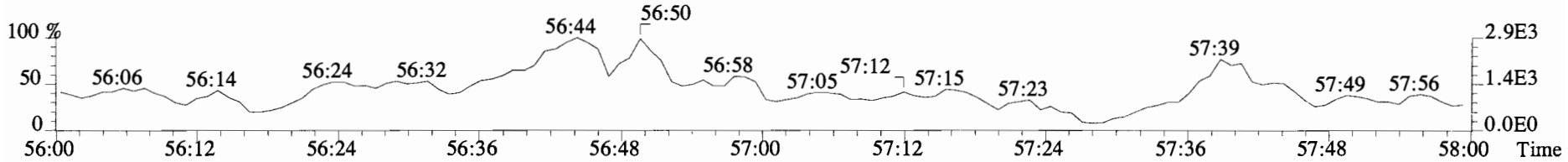
465.7186 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1260.0,0.00%,F,F)



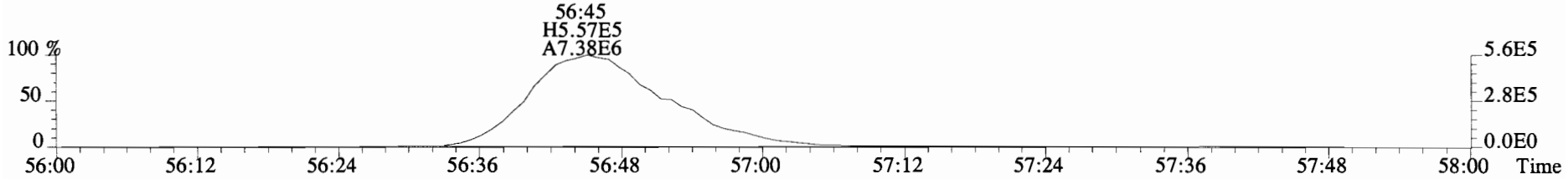
File:141021E2 #1-434 Acq:22-OCT-2014 02:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-01 CC-A-01-20141013-W 1 Exp:PCB_ZB1
497.6826 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1248.0,0.00%,F,F)



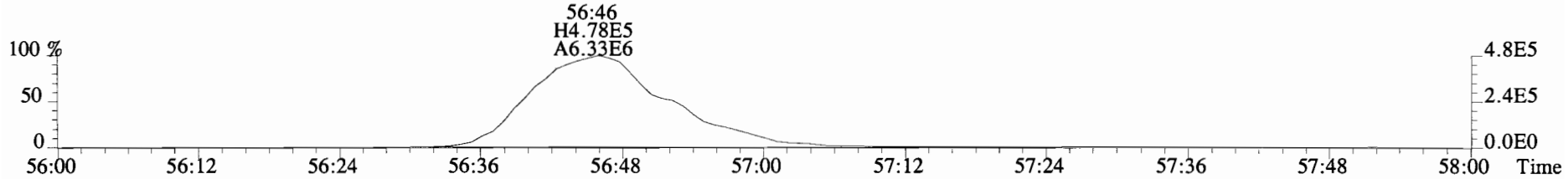
499.6797 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1340.0,0.00%,F,F)



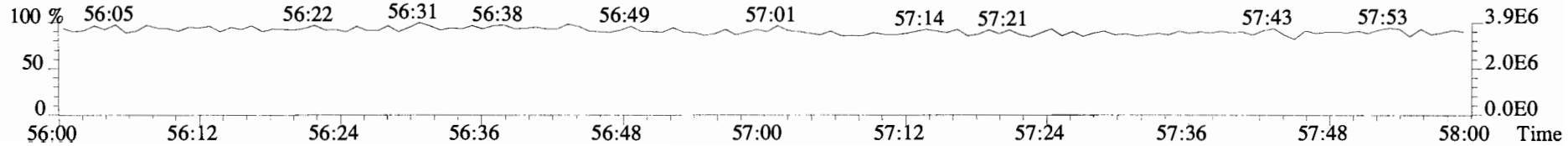
509.7229 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1396.0,0.00%,F,F)



511.7199 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1280.0,0.00%,F,F)



492.9697 S:7 F:5



Client ID: CC-FD-02-20141013-W Filename: 141021E2 S:8 Acq:22-OCT-14 03:37:15 ConCal: ST141021E2-1
Lab ID: 1400762-02 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.031 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Mono	PCB-1	1.99e+05	3.31	y 16:30	1.25	2.50		*	2.5	*	1.001	0.996-1.006
Mono	PCB-2	8.34e+04	2.99	y 18:46	1.18	1.05		*	2.5	*	0.989	0.983-0.993
Mono	PCB-3	2.03e+05	2.98	y 19:00	1.22	2.48		*	2.5	*	1.001	0.996-1.006
Di	PCB-4/10	2.92e+05	1.22	n 20:18	1.55	6.14	R	*	2.5	*	1.001	0.998-1.008
Di	PCB-7/9	*	*	n NotF	1.27	*		15600	2.5	6.01	*	0.865-0.873
Di	PCB-6	1.75e+05	1.09	n 22:40	1.26	2.83	R	*	2.5	*	0.896	0.890-0.899
Di	PCB-5/8	6.75e+05	1.73	y 23:03	1.23	11.2		*	2.5	*	0.911	0.906-0.916
Di	PCB-14	*	*	n NotF	1.23	*		15600	2.5	5.33	*	0.949-0.959
Di	PCB-11	5.34e+06	1.62	y 25:19	1.16	80.4		*	2.5	*	1.001	0.996-1.006
Di	PCB-12/13	*	*	n NotF	1.10	*		15600	2.5	5.98	*	1.010-1.020
Di	PCB-15	8.84e+05	1.37	y 26:01	1.21	12.8		*	2.5	*	1.028	1.024-1.034
Tri	PCB-19	1.38e+05	1.17	y 24:20	1.30	2.89		*	2.5	*	1.001	0.996-1.006
Tri	PCB-30	*	*	n NotF	1.83	*		2240	2.5	0.649	*	1.032-1.042
Tri	PCB-18	8.65e+05	1.17	y 25:56	0.86	17.3		*	2.5	*	0.955	0.949-0.959
Tri	PCB-17	2.90e+05	1.12	y 26:06	0.90	5.53		*	2.5	*	0.961	0.955-0.965
Tri	PCB-24/27	1.42e+05	1.14	y 26:39	1.18	2.07		*	2.5	*	0.981	0.976-0.986
Tri	PCB-16/32	7.30e+05	1.11	y 27:10	1.03	12.2		*	2.5	*	1.000	0.995-1.005
Tri	PCB-34	*	*	n NotF	1.26	*		2210	2.5	0.822	*	0.956-0.966
Tri	PCB-23	*	*	n NotF	1.31	*		2210	2.5	0.791	*	0.959-0.969
Tri	PCB-29	*	*	n NotF	1.33	*		2210	2.5	0.780	*	0.967-0.977
Tri	PCB-26	3.08e+05	1.13	y 28:29	1.29	5.13		*	2.5	*	0.979	0.974-0.984
Tri	PCB-25	1.32e+05	0.93	y 28:39	1.34	2.12		*	2.5	*	0.985	0.980-0.990
Tri	PCB-31	1.32e+06	1.01	y 29:00	1.42	20.0		*	2.5	*	0.997	0.992-1.002
Tri	PCB-28	1.16e+06	1.05	y 29:07	1.38	18.2		*	2.5	*	1.001	0.996-1.006
Tri	PCB-20/21/33	8.25e+05	1.05	y 29:44	1.31	13.5		*	2.5	*	1.022	1.017-1.027
Tri	PCB-22	5.54e+05	1.12	y 30:10	1.32	9.01		*	2.5	*	1.037	1.032-1.042
Tri	PCB-36	*	*	n NotF	1.38	*		2210	2.5	0.791	*	0.929-0.939
Tri	PCB-39	*	*	n NotF	1.42	*		2210	2.5	0.767	*	0.943-0.953
Tri	PCB-38	*	*	n NotF	1.35	*		2210	2.5	0.805	*	0.967-0.976
Tri	PCB-35	2.51e+05	0.92	y 32:31	1.38	3.71		*	2.5	*	0.987	0.982-0.992
Tri	PCB-37	1.15e+06	0.93	y 32:57	1.39	16.8		*	2.5	*	1.000	0.996-1.006
Tetra	PCB-54	*	*	n NotF	1.20	*		3140	2.5	1.13	*	0.996-1.006
Tetra	PCB-50	*	*	n NotF	0.97	*		3140	2.5	1.40	*	1.037-1.047
Tetra	PCB-53	2.47e+05	0.71	y 29:48	1.19	5.20		*	2.5	*	0.947	0.941-0.951
Tetra	PCB-51	8.03e+04	0.83	y 30:09	1.15	1.75		*	2.5	*	0.958	0.952-0.962
Tetra	PCB-45	1.73e+05	0.73	y 30:35	0.97	4.50		*	2.5	*	0.971	0.966-0.976
Tetra	PCB-46	9.05e+04	0.88	y 31:04	0.95	2.38		*	2.5	*	0.987	0.982-0.992

Integrations by:

Analyst: DMS

Date: 10/28/14

Reviewed by: [signature] Date: 10/28/14

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	6.95e+06	0.72	y	31:30	1.28	136		*	2.5	*	1.001	0.996	1.006
Tetra	PCB-73	*	*	n	NotF	1.37	*		3140	2.5	1.15	*	1.000	1.010
Tetra	PCB-43/49	1.72e+06	0.72	y	31:48	1.11	38.7		*	2.5	*	1.010	1.005	1.015
Tetra	PCB-47	4.77e+05	0.70	y	31:59	1.13	9.99		*	2.5	*	1.000	0.996	1.006
Tetra	PCB-48/75	2.05e+05	0.82	y	32:07	1.30	3.73		*	2.5	*	1.004	0.999	1.009
Tetra	PCB-65	*	*	n	NotF	1.33	*		3140	2.5	1.11	*	1.007	1.017
Tetra	PCB-62	*	*	n	NotF	1.29	*		3140	2.5	1.15	*	1.011	1.021
Tetra	PCB-44	2.97e+06	0.79	y	32:47	0.94	74.9		*	2.5	*	1.025	1.020	1.030
Tetra	PCB-42/59	5.60e+05	0.79	y	33:02	1.22	10.9		*	2.5	*	1.033	1.028	1.038
Tetra	PCB-41/64/71/72	2.35e+06	0.71	y	33:36	1.31	42.4		*	2.5	*	1.051	1.046	1.056
Tetra	PCB-68	*	*	n	NotF	1.49	*		3140	2.5	0.998	*	1.054	1.064
Tetra	PCB-40	3.12e+05	0.82	y	34:06	0.82	9.03		*	2.5	*	1.066	1.061	1.071
Tetra	PCB-57	*	*	n	NotF	1.11	*		3140	2.5	1.01	*	0.965	0.975
Tetra	PCB-67	1.80e+05	0.68	y	34:44	1.07	2.92		*	2.5	*	0.979	0.974	0.984
Tetra	PCB-58	*	*	n	NotF	1.10	*		3140	2.5	1.02	*	0.977	0.987
Tetra	PCB-63	1.21e+05	0.92	n	35:00	1.12	1.89	R	*	2.5	*	0.986	0.982	0.992
Tetra	PCB-74	2.71e+06	0.77	y	35:17	1.20	39.1		*	2.5	*	0.994	0.990	1.000
Tetra	PCB-61/70	1.34e+07	0.74	y	35:30	1.08	215		*	2.5	*	1.000	0.994	1.004
Tetra	PCB-76/66	4.61e+06	0.76	y	35:43	1.14	70.6		*	2.5	*	1.007	1.001	1.011
Tetra	PCB-80	*	*	n	NotF	1.28	*		3140	2.5	0.868	*	0.996	1.006
Tetra	PCB-55	1.17e+05	0.91	n	36:13	1.11	1.81	R	*	2.5	*	1.009	1.005	1.015
Tetra	PCB-56/60	2.92e+06	0.77	y	36:45	1.09	46.0		*	2.5	*	1.024	1.018	1.028
Tetra	PCB-79	3.40e+05	1.03	n	37:48	1.12	5.17	R	*	2.5	*	1.053	1.048	1.058
Tetra	PCB-78	*	*	n	NotF	1.24	*		3140	2.5	1.08	*	0.982	0.992
Tetra	PCB-81	9.65e+04	0.70	y	39:00	1.38	1.37		*	2.5	*	0.999	0.995	1.005
Tetra	PCB-77	4.41e+06	0.76	y	39:38	1.21	68.0		*	2.5	*	1.000	0.995	1.005
Penta	PCB-104	*	*	n	NotF	1.26	*		2660	2.5	1.75	*	0.996	1.006
Penta	PCB-96	8.42e+04	1.92	n	33:55	1.09	2.08	R	*	2.5	*	1.039	1.034	1.044
Penta	PCB-103	5.96e+04	1.03	n	34:26	0.93	1.73	R	*	2.5	*	1.055	1.050	1.060
Penta	PCB-100	*	*	n	NotF	1.00	*		2660	2.5	2.19	*	1.061	1.071
Penta	PCB-94	*	*	n	NotF	1.11	*		2660	2.5	2.43	*	0.981	0.991
Penta	PCB-95/98/102	1.21e+07	1.64	y	35:48	1.21	341		*	2.5	*	1.000	0.994	1.004
Penta	PCB-93	*	*	n	NotF	1.13	*		2660	2.5	2.38	*	0.998	1.008
Penta	PCB-88/91	1.74e+06	1.65	y	36:13	1.02	58.4		*	2.5	*	1.012	1.006	1.016
Penta	PCB-121	*	*	n	NotF	1.90	*		2660	2.5	1.41	*	1.009	1.019
Penta	PCB-84/92	6.52e+06	1.65	y	37:07	1.05	191		*	2.5	*	0.991	0.986	0.996
Penta	PCB-89	9.08e+04	1.34	y	37:19	1.02	2.75		*	2.5	*	0.996	0.991	1.001

Analyst: DMS

Date: 10/28/14

Client ID: CC-FD-02-20141013-W Filename: 141021E2 S:8 Acq:22-OCT-14 03:37:15 ConCal: ST141021E2-1
Lab ID: 1400762-02 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.031 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Penta	PCB-90/101	2.08e+07	1.59	y 37:29	1.19	537		*	2.5	*	1.000	0.996-1.006
Penta	PCB-113	*	*	n NotF╗	1.35	*		2660	2.5	1.82	*	1.002-1.012
Penta	PCB-99	7.14e+06	1.55	y 37:48	1.29	171		*	2.5	*	1.009	1.005-1.015
Penta	PCB-119	3.46e+05	1.54	y 38:17	1.72	6.88		*	2.5	*	0.987	0.982-0.992
Penta	PCB-108/112	9.29e+05	1.61	y 38:27	1.29	24.7		*	2.5	*	0.991	0.986-0.996
Penta	PCB-83	*	*	n NotF╗	1.52	*	R	2660	2.5	1.87	*	0.991-1.001
Penta	PCB-97	5.85e+06	1.57	y 38:47	1.25	160		*	2.5	*	1.000	0.996-1.006
Penta	PCB-86	*	*	n NotF╗	1.02	*		2660	2.5	2.78	*	1.000-1.010
Penta	PCB-87/117/125	9.77e+06	1.55	y 39:04	1.56	215		*	2.5	*	1.007	1.002-1.012
Penta	PCB-111/115	4.52e+05	1.34	y 39:13	1.75	8.84		*	2.5	*	1.011	1.007-1.017
Penta	PCB-85/116	3.04e+06	1.59	y 39:20	1.30	80.0		*	2.5	*	1.014	1.010-1.020
Penta	PCB-120	1.46e+05	1.77	y 39:34	1.78	2.80		*	2.5	*	1.020	1.016-1.026
Penta	PCB-110	3.29e+07	1.57	y 39:44	1.68	671		*	2.5	*	1.024	1.020-1.030
Penta	PCB-82	2.15e+06	1.53	y 40:23	0.74	76.5		*	2.5	*	0.977	0.972-0.982
Penta	PCB-124	1.59e+06	1.58	y 41:03	1.32	31.5		*	2.5	*	0.993	0.988-0.998
Penta	PCB-107/109	2.28e+06	1.55	y 41:13	1.22	49.0		*	2.5	*	0.997	0.991-1.001
Penta	PCB-123	4.40e+05	1.67	y 41:22	1.22	9.49		*	2.5	*	1.000	0.995-1.005
Penta	PCB-106/118	3.19e+07	1.57	y 41:33	1.22	655		*	2.5	*	1.000	0.996-1.006
Penta	PCB-114	6.06e+05	1.48	y 42:12	1.36	13.2		*	2.5	*	1.000	0.995-1.005
Penta	PCB-122	3.34e+05	1.56	y 42:21	1.24	8.00		*	2.5	*	1.004	0.999-1.009
Penta	PCB-105	1.18e+07	1.66	y 43:05	1.28	275		*	2.5	*	1.000	0.995-1.005
Penta	PCB-127	*	*	n NotF╗	1.14	*		5050	2.5	3.98	*	0.995-1.005
Penta	PCB-126	7.40e+05	1.50	y 45:20	1.28	18.6		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-155	*	*	n NotF╗	1.14	*		1270	2.5	0.852	*	0.966-1.006
Hexa	PCB-150	5.76e+04	0.98	n 38:18	1.06	1.59	R	*	2.5	*	1.035	1.030-1.040
Hexa	PCB-152	*	*	n NotF╗	1.10	*		1270	2.5	0.881	*	1.043-1.053
Hexa	PCB-145	*	*	n NotF╗	1.09	*		1270	2.5	0.885	*	1.055-1.065
Hexa	PCB-136	2.79e+06	1.32	y 39:33	1.08	75.6		*	2.5	*	1.068	1.064-1.074
Hexa	PCB-148	*	*	n NotF╗	0.74	*		1270	2.5	1.31	*	1.066-1.076
Hexa	PCB-154	2.91e+05	1.23	y 40:08	0.88	9.69		*	2.5	*	1.084	1.079-1.089
Hexa	PCB-151	3.75e+06	1.22	y 40:47	0.81	136		*	2.5	*	1.102	1.097-1.107
Hexa	PCB-135	2.36e+06	1.26	y 40:59	0.78	89.1		*	2.5	*	1.107	1.101-1.113
Hexa	PCB-144	1.04e+06	1.34	y 41:06	0.82	37.1		*	2.5	*	1.110	1.105-1.116
Hexa	PCB-147	3.22e+05	1.20	y 41:14	0.83	11.4		*	2.5	*	1.114	1.011-1.120
Hexa	PCB-139/149	1.68e+07	1.27	y 41:30	0.84	585		*	2.5	*	1.121	1.115-1.127
Hexa	PCB-140	1.70e+05	1.21	y 41:42	0.79	6.35		*	2.5	*	1.127	1.120-1.132
Hexa	PCB-134/143	1.21e+06	1.31	y 42:10	0.93	40.1		*	2.5	*	0.976	0.970-0.980

Analyst: DMS

Date: 10/28/14

Client ID: CC-FD-02-20141013-W Filename: 141021E2 S:8 Acq:22-OCT-14 03:37:15 ConCal: ST141021E2-1
Lab ID: 1400762-02 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.031 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hexa	PCB-133/142	6.78e+05	1.31	y 42:26	0.95	22.0		*	2.5	*	0.982	0.977-0.987
Hexa	PCB-131	*	*	n NotF	0.91	*		5520	2.5	5.23	*	0.981-0.991
Hexa	PCB-146/165	4.17e+06	1.26	y 42:49	1.16	110		*	2.5	*	0.991	0.986-0.996
Hexa	PCB-132/161	8.28e+06	1.16	y 43:06	1.11	228		*	2.5	*	0.997	0.992-1.002
Hexa	PCB-153	2.85e+07	1.25	y 43:13	1.18	740		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-168	*	*	n NotF	1.37	*		5520	2.5	3.49	*	1.000-1.010
Hexa	PCB-141	5.74e+06	1.18	y 43:58	0.97	189		*	2.5	*	1.000	0.996-1.005
Hexa	PCB-137	1.21e+06	1.21	y 44:22	1.07	36.2		*	2.5	*	1.009	1.004-1.014
Hexa	PCB-130	1.76e+06	1.19	y 44:28	0.85	66.8		*	2.5	*	1.012	1.007-1.017
Hexa	PCB-138/163/164	3.35e+07	1.22	y 44:50	1.23	905		*	2.5	*	1.000	0.996-1.006
Hexa	PCB-158/160	4.11e+06	1.17	y 45:04	1.29	105		*	2.5	*	1.006	1.001-1.011
Hexa	PCB-129	1.17e+06	1.16	y 45:20	0.92	42.1		*	2.5	*	1.012	1.007-1.017
Hexa	PCB-166	*	*	n NotF	1.12	*		5520	2.5	4.15	*	0.988-0.998
Hexa	PCB-159	*	*	n NotF	1.16	*		5520	2.5	3.97	*	0.995-1.005
Hexa	PCB-128/162	5.12e+06	1.22	y 46:24	1.02	143		*	2.5	*	1.006	1.002-1.012
Hexa	PCB-167	1.73e+06	1.30	y 46:50	1.06	45.5		*	2.5	*	1.001	0.995-1.005
Hexa	PCB-156	3.13e+06	1.24	y 48:08	1.18	77.9		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-157	8.47e+05	1.29	y 48:24	1.08	22.4		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-169	*	*	n NotF	1.11	*		5520	2.5	6.02	*	0.995-1.005
Hepta	PCB-188	4.75e+04	1.07	y 42:52	1.40	1.15		*	2.5	*	1.001	0.995-1.005
Hepta	PCB-184	3.42e+04	1.12	y 43:18	1.24	0.940		*	2.5	*	1.011	1.006-1.016
Hepta	PCB-179	3.01e+06	1.06	y 44:05	1.30	78.4		*	2.5	*	1.029	1.024-1.034
Hepta	PCB-176	9.64e+05	0.99	y 44:34	1.36	24.0		*	2.5	*	1.040	1.035-1.045
Hepta	PCB-186	*	*	n NotF	1.28	*		2890	2.5	1.36	*	1.049-1.059
Hepta	PCB-178	1.25e+06	0.97	y 45:40	0.94	45.3		*	2.5	*	1.066	1.061-1.071
Hepta	PCB-175	2.42e+05	0.97	y 46:01	0.97	8.49		*	2.5	*	1.074	1.069-1.079
Hepta	PCB-182/187	7.98e+06	1.04	y 46:10	1.01	267		*	2.5	*	1.078	1.073-1.083
Hepta	PCB-183	3.22e+06	1.08	y 46:31	1.08	101		*	2.5	*	1.086	1.080-1.090
Hepta	PCB-185	6.56e+05	1.15	y 47:11	1.34	26.0		*	2.5	*	0.955	0.951-0.961
Hepta	PCB-174	5.53e+06	1.08	y 47:33	1.34	220		*	2.5	*	0.963	0.958-0.968
Hepta	PCB-181	*	*	n NotF	1.36	*		2890	2.5	2.25	*	0.961-0.971
Hepta	PCB-177	2.94e+06	1.08	y 47:50	1.24	126		*	2.5	*	0.969	0.964-0.974
Hepta	PCB-171	1.31e+06	1.00	y 48:08	1.31	52.9		*	2.5	*	0.975	0.970-0.980
Hepta	PCB-173	1.06e+05	1.14	y 48:35	1.16	4.85		*	2.5	*	0.984	0.979-0.989
Hepta	PCB-172	1.01e+06	1.09	y 49:00	1.22	43.7		*	2.5	*	0.992	0.988-0.998
Hepta	PCB-192	*	*	n NotF	1.53	*		2890	2.5	2.01	*	0.991-1.001
Hepta	PCB-180	1.18e+07	1.07	y 49:23	1.43	439		*	2.5	*	1.000	0.995-1.005

Analyst: DMS

Date: 10/28/14

Client ID: CC-FD-02-20141013-W Filename: 141021E2 S:8 Acq:22-OCT-14 03:37:15 ConCal: ST141021E2-1
Lab ID: 1400762-02 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.031 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	7.30e+05	1.08	y	49:35	1.65	23.5		*	2.5	*	1.004	0.999	1.009
Hepta	PCB-191	3.02e+05	1.17	y	49:48	1.67	9.60		*	2.5	*	1.008	1.004	1.014
Hepta	PCB-170	3.83e+06	1.06	y	50:45	1.50	184		*	2.5	*	1.000	0.995	1.005
Hepta	PCB-190	9.72e+05	0.99	y	50:56	2.02	34.7		*	2.5	*	1.004	0.998	1.008
Hepta	PCB-189	1.63e+05	0.90	y	52:12	1.54	6.71		*	2.5	*	1.000	0.995	1.005
Octa	PCB-202	5.80e+05	0.91	y	48:20	1.04	21.6		*	2.5	*	1.000	0.995	1.005
Octa	PCB-201	3.58e+05	0.79	y	48:49	1.10	12.6		*	2.5	*	1.010	1.006	1.016
Octa	PCB-204	*	*	n	NotF	0.99	*		1430	2.5	1.37	*	1.009	1.019
Octa	PCB-197	8.62e+04	0.85	y	49:15	1.07	3.12		*	2.5	*	1.019	1.015	1.025
Octa	PCB-200	2.67e+05	0.87	y	50:04	1.02	10.2		*	2.5	*	1.036	1.032	1.044
Octa	PCB-198	3.74e+04	0.75	n	51:17	0.74	1.95	R	*	2.5	*	1.061	1.058	1.068
Octa	PCB-199	1.63e+06	0.93	y	51:25	0.73	87.0		*	2.5	*	1.064	1.060	1.070
Octa	PCB-196/203	1.63e+06	0.93	y	51:41	0.77	82.0		*	2.5	*	1.070	1.066	1.076
Octa	PCB-195	4.23e+05	0.97	y	52:49	1.20	32.9		*	2.5	*	0.983	0.979	0.989
Octa	PCB-194	1.11e+06	0.88	y	53:46	1.25	83.3		*	2.5	*	1.000	0.995	1.005
Octa	PCB-205	*	*	n	NotF	1.41	*		2830	2.5	7.36	*	1.001	1.011
Nona	PCB-208	9.56e+04	1.21	y	52:57	0.96	6.49		*	2.5	*	1.000	0.995	1.005
Nona	PCB-207	5.95e+04	1.52	y	53:17	0.92	4.24		*	2.5	*	1.007	1.001	1.011
Nona	PCB-206	1.98e+05	1.19	y	55:31	1.03	28.5		*	2.5	*	1.000	0.995	1.005
Deca	PCB-209	*	*	n	NotF	1.18	*		1280	2.5	15.1	*	0.995	1.005

Analyst: DMJ

Date: 10/28/14

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	4.85e+05	3.31	y	16:30	1.22	6.03208	
Total Di-PCB	6.90e+06	1.73	y	23:03	1.21	104.319	
Total Tri-PCB	2.16e+06	1.17	y	24:20	1.16	39.9935	
Total Tri-PCB	5.70e+06	1.13	y	28:29	1.35	88.4363	Sum:128.430
Total Tetra-PCB	4.44e+07	0.71	y	29:48	1.17	782.739	
Total Penta-PCB	1.40e+08	1.64	y	35:48	1.21	3292.15	
Total Penta-PCB	1.35e+07	1.48	y	42:12	1.26	314.332	Sum:3606.49
Total Hexa-PCB	2.75e+07	1.32	y	39:33	0.92	950.684	
Total Hexa-PCB	1.01e+08	1.31	y	42:10	1.08	2774.40	Sum:3725.09
Total Hepta-PCB	4.61e+07	1.07	y	42:52	1.27	1697.23	
Total Octa-PCB	4.56e+06	0.91	y	48:20	0.92	216.505	
Total Octa-PCB	1.54e+06	0.97	y	52:49	1.29	116.269	Sum:332.773
Total Nona-PCB	3.53e+05	1.21	y	52:57	0.96	39.2795	
Total Deca-PCB	*	*	n	NotFnd	1.18	*	

Total PCB Conc:10447.5647130

Integrations
by
Analyst: DMS

Date: 10/28/14

Client ID: CC-FD-02-20141013-W Filename: 141021E2 S:8 Acq:22-OCT-14 03:37:15 ConCal: ST141021E2-1
Lab ID: 1400762-02 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0313 EndCAL: NA

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.23e+08	3.21	y	0.89	16:29	0.634	0.622	0.628	1820	94.1
13C-PCB-3	1.30e+08	3.24	y	0.93	18:59	0.730	0.721	0.729	1850	95.5
13C-PCB-4	5.95e+07	1.57	y	0.55	20:17	0.780	0.772	0.780	1430	74.0
13C-PCB-9	9.50e+07	1.59	y	0.83	22:00	0.846	0.840	0.848	1520	78.3
13C-PCB-11	1.11e+08	1.55	y	0.94	25:18	0.973	0.968	0.978	1570	80.8
13C-PCB-19	7.13e+07	1.05	y	0.53	24:19	0.935	0.929	0.939	1770	91.3
13C-PCB-28	9.02e+07	1.06	y	0.89	29:06	1.003	0.999	1.009	1490	76.6
13C-PCB-32	1.13e+08	1.09	y	0.81	27:10	1.045	1.041	1.051	1830	94.5
13C-PCB-37	9.52e+07	1.06	y	0.83	32:57	1.136	1.131	1.143	1670	86.3
13C-PCB-47	8.18e+07	0.78	y	0.74	31:59	0.870	0.867	0.875	1510	78.0
13C-PCB-52	7.74e+07	0.80	y	0.71	31:29	0.857	0.853	0.861	1500	77.5
13C-PCB-54	8.83e+07	0.79	y	0.85	28:01	0.762	0.758	0.766	1430	73.7
13C-PCB-70	1.11e+08	0.79	y	0.94	35:29	0.966	0.961	0.971	1620	83.7
13C-PCB-77	1.04e+08	0.80	y	0.89	39:37	1.078	1.073	1.083	1600	82.7
13C-PCB-80	1.13e+08	0.79	y	0.96	35:53	0.976	0.972	0.982	1620	83.6
13C-PCB-81	9.91e+07	0.78	y	0.84	39:02	1.062	1.057	1.067	1630	83.8
13C-PCB-95	5.68e+07	1.59	y	0.74	35:47	0.913	0.908	0.918	1530	79.1
13C-PCB-97	5.66e+07	1.61	y	0.69	38:47	0.989	0.984	0.994	1650	85.2
13C-PCB-101	6.29e+07	1.61	y	0.79	37:28	0.956	0.951	0.961	1610	83.1
13C-PCB-104	7.18e+07	1.62	y	1.00	32:39	0.833	0.829	0.837	1450	74.8
13C-PCB-105	6.52e+07	1.55	y	1.24	43:04	0.928	0.924	0.934	1540	79.6
13C-PCB-114	6.55e+07	1.58	y	1.21	42:12	0.909	0.905	0.915	1590	82.1
13C-PCB-118	7.70e+07	1.59	y	0.98	41:32	1.060	1.054	1.064	1570	81.0
13C-PCB-123	7.39e+07	1.57	y	0.95	41:21	1.055	1.049	1.059	1560	80.7
13C-PCB-126	6.02e+07	1.56	y	1.16	45:19	0.977	0.972	0.982	1520	78.3
13C-PCB-127	7.05e+07	1.58	y	1.34	43:24	0.935	0.931	0.941	1540	79.4
13C-PCB-138	5.86e+07	1.31	y	1.04	44:49	0.966	0.961	0.971	1640	84.8
13C-PCB-141	6.03e+07	1.24	y	1.07	43:57	0.947	0.943	0.953	1650	85.0
13C-PCB-153	6.33e+07	1.28	y	1.11	43:13	0.931	0.927	0.937	1670	86.0
13C-PCB-155	6.60e+07	1.29	y	0.83	37:01	0.944	0.939	0.949	1590	82.2
13C-PCB-156	6.58e+07	1.26	y	1.24	48:07	1.037	1.032	1.042	1550	79.9
13C-PCB-157	6.77e+07	1.27	y	1.31	48:23	1.043	1.037	1.047	1510	78.1
13C-PCB-159	6.81e+07	1.26	y	1.20	46:07	0.994	0.989	0.999	1660	85.8
13C-PCB-167	6.94e+07	1.30	y	1.32	46:48	1.009	1.004	1.014	1540	79.4
13C-PCB-169	5.62e+07	1.34	y	1.22	50:26	1.087	1.082	1.092	1360	69.9
13C-PCB-170	2.70e+07	0.46	y	0.54	50:45	1.094	1.089	1.101	1480	76.1
13C-PCB-180	3.65e+07	0.47	y	0.67	49:23	1.064	1.059	1.069	1590	81.8
13C-PCB-188	5.70e+07	0.46	y	0.94	42:50	0.923	0.919	0.929	1790	92.1
13C-PCB-189	3.06e+07	0.45	y	0.72	52:12	1.125	1.120	1.132	1250	64.7
13C-PCB-194	2.08e+07	0.89	y	0.81	53:45	0.994	0.990	1.000	1730	89.1
13C-PCB-202	4.99e+07	0.93	y	0.83	48:19	1.041	1.036	1.046	1760	90.7
13C-PCB-206	1.31e+07	0.80	y	0.66	55:31	1.027	1.021	1.031	1340	69.0
13C-PCB-208	2.97e+07	0.80	y	1.12	52:56	0.979	0.976	0.986	1780	91.8
13C-PCB-209	1.13e+07	1.20	y	0.61	56:48	1.051	1.044	1.054	1240	63.9

CRS vs. RS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.30e+08	0.78	y	1.01	37:47	1.028	1.023	1.033	1770	91.4
13C-PCB-178	4.07e+07	0.46	y	0.63	45:39	0.984	0.979	0.989	1890	97.6

PS vs. IS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.30e+08	0.78	y	1.20	37:47	0.968	0.963	0.973	2110	109
13C-PCB-178	4.07e+07	0.46	y	0.94	45:39	0.924	0.920	0.930	2310	119

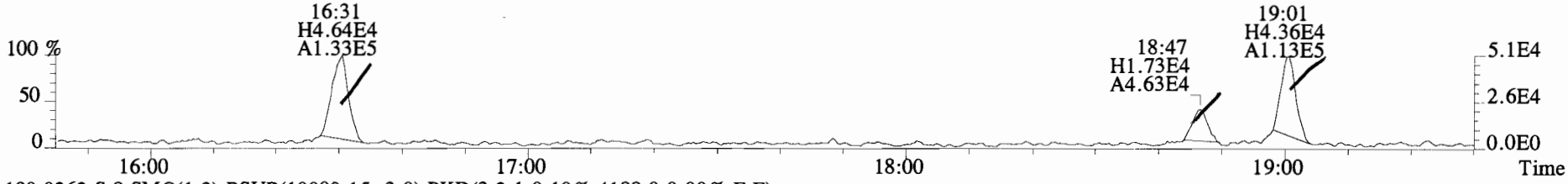
RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	1.47e+08	1.54	y	1.00	26:00	1940
13C-PCB-31	1.33e+08	1.04	y	1.00	29:00	1940
13C-PCB-60	1.41e+08	0.77	y	1.00	36:45	1940
13C-PCB-111	9.65e+07	1.59	y	1.00	39:12	1940
13C-PCB-128	6.62e+07	1.29	y	1.00	46:24	1940
13C-PCB-205	2.88e+07	0.90	y	1.00	54:03	1940

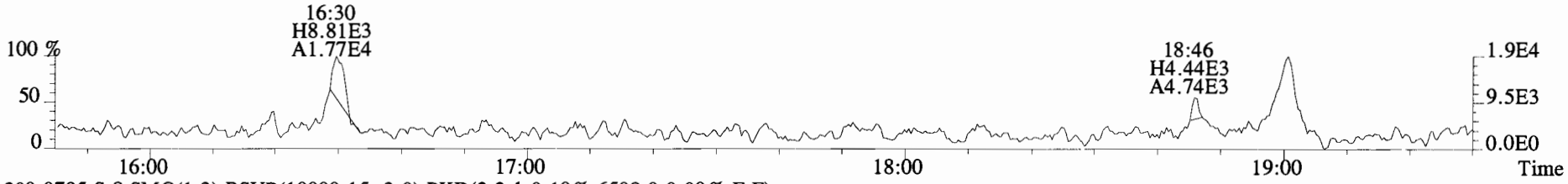
Analyst: DMS

Date: 10/28/14

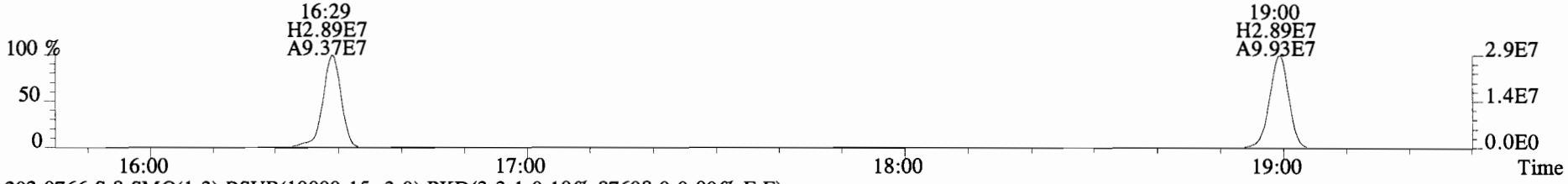
File:141021E2 #1-729 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
188.0393 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3508.0,0.00%,F,F)



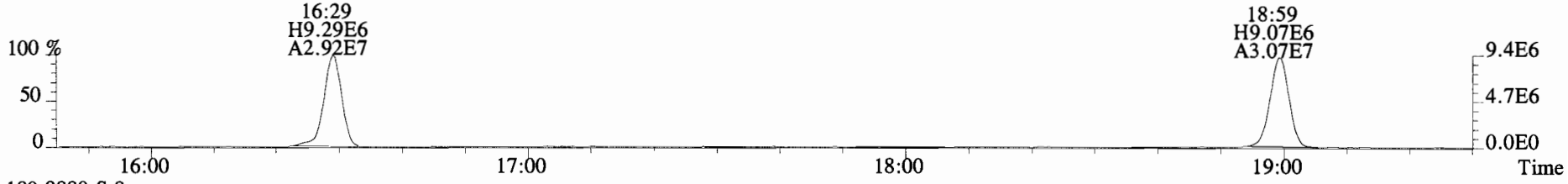
190.0363 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4188.0,0.00%,F,F)



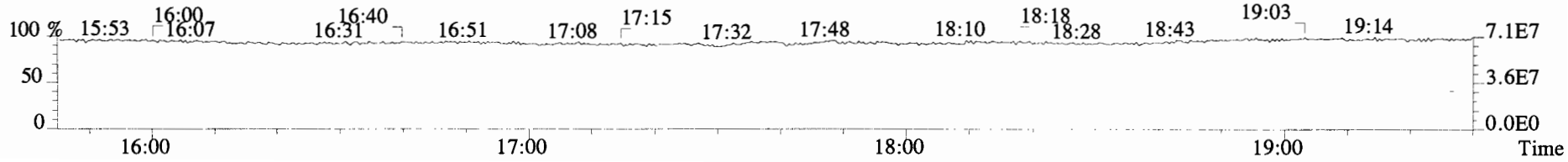
200.0795 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6508.0,0.00%,F,F)



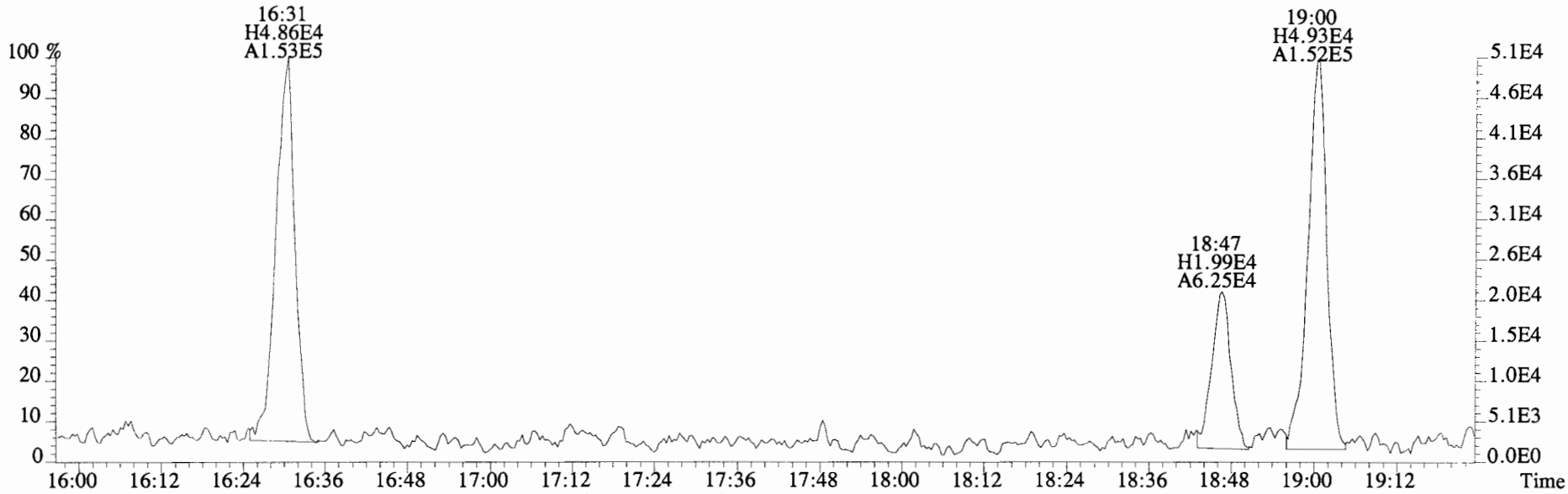
202.0766 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,87608.0,0.00%,F,F)



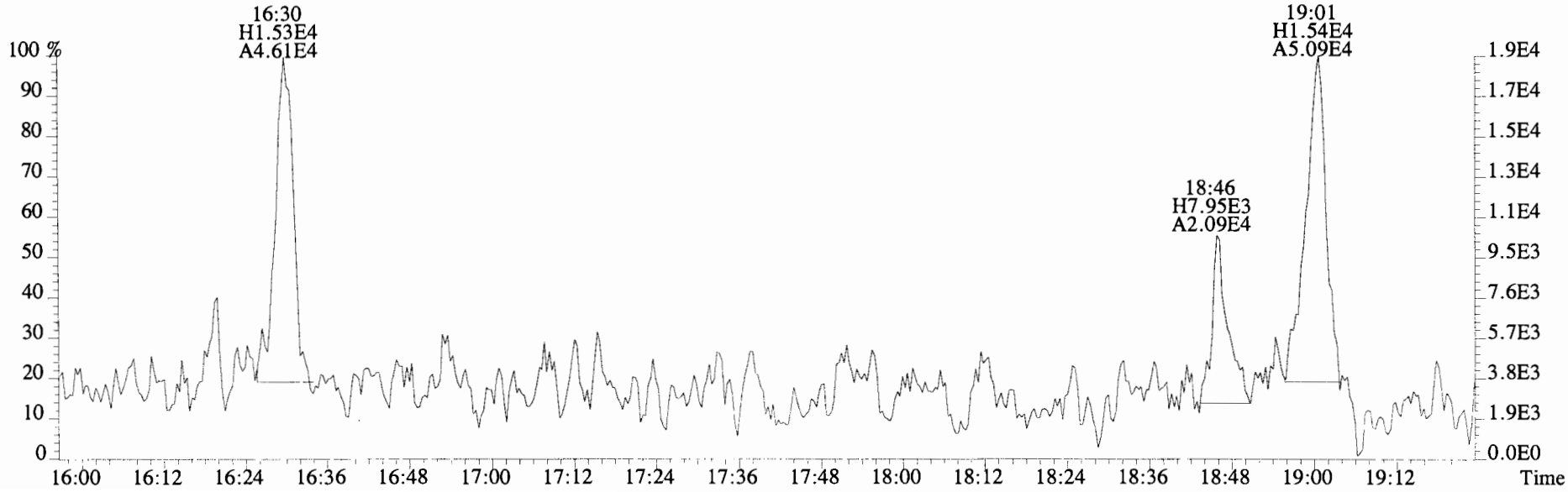
180.9880 S:8



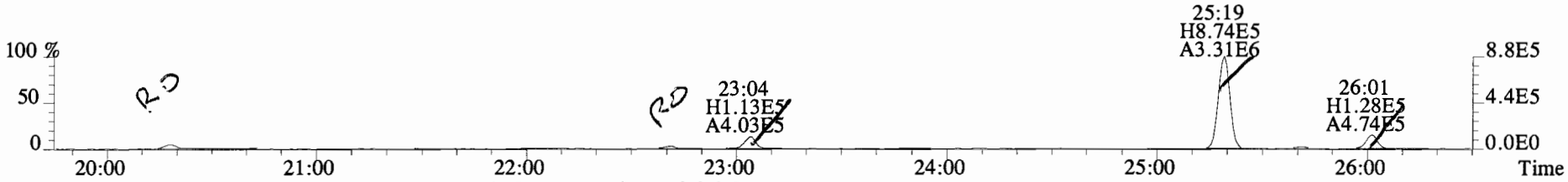
File:141021E2 #1-729 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
188.0393 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3508.0,0.00%,F,F)



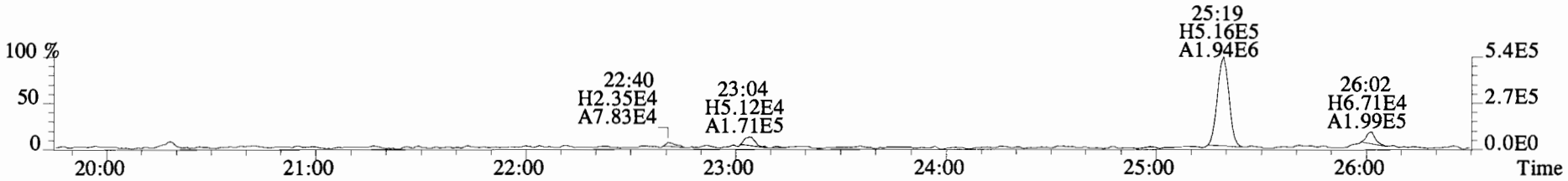
190.0363 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4188.0,0.00%,F,F)



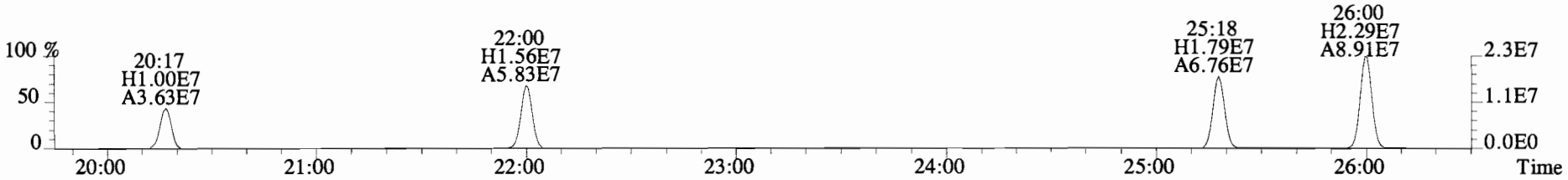
File:141021E2 #1-757 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3340.0,0.00%,F,F)



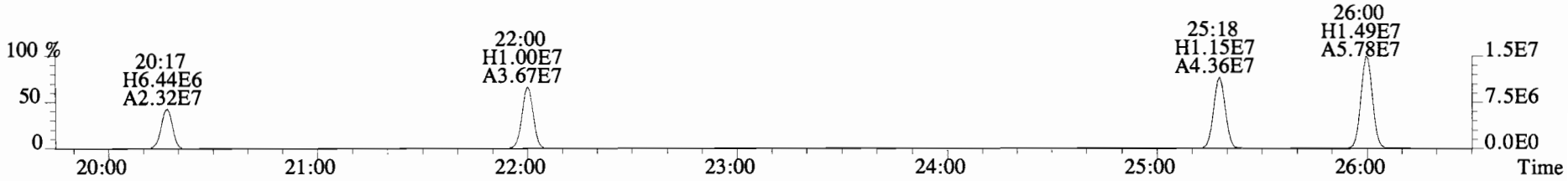
223.9974 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15600.0,0.00%,F,F)



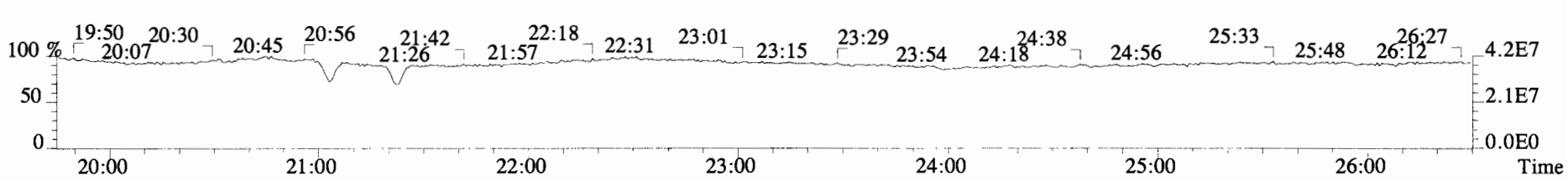
234.0406 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8496.0,0.00%,F,F)



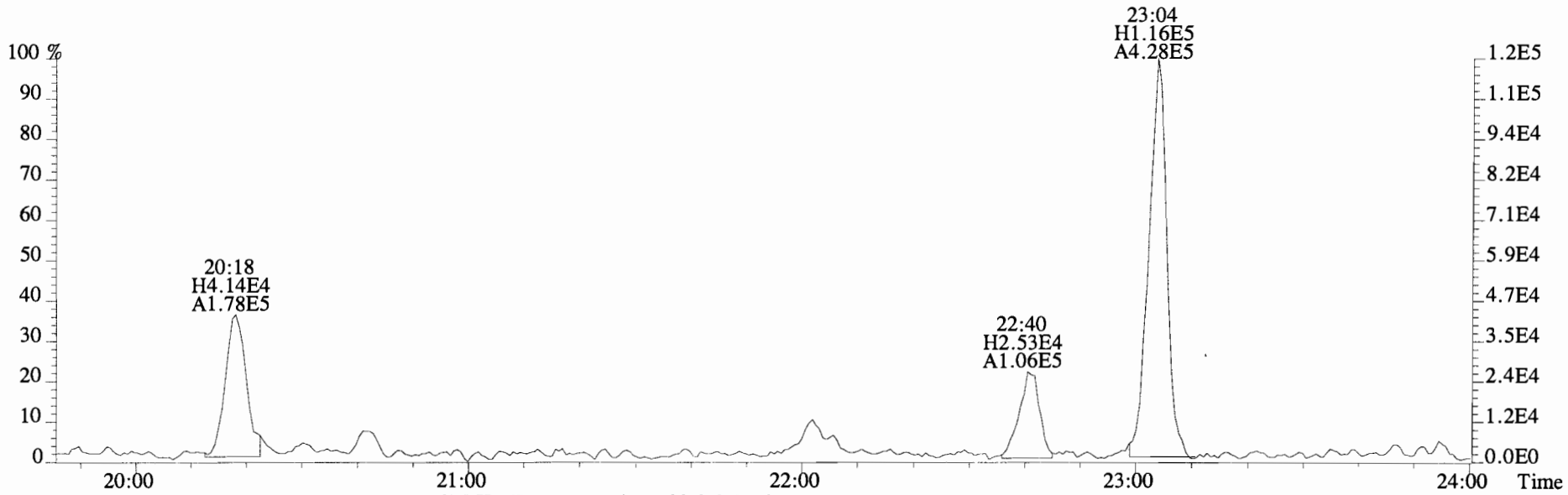
236.0376 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7300.0,0.00%,F,F)



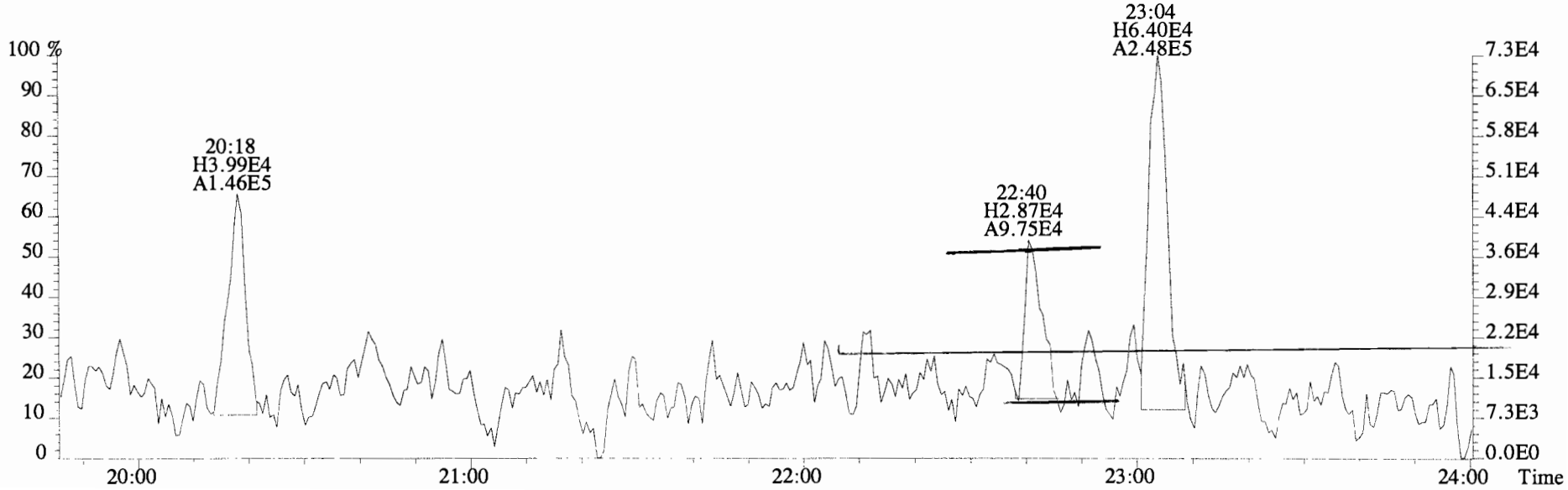
230.9856 S:8 F:2



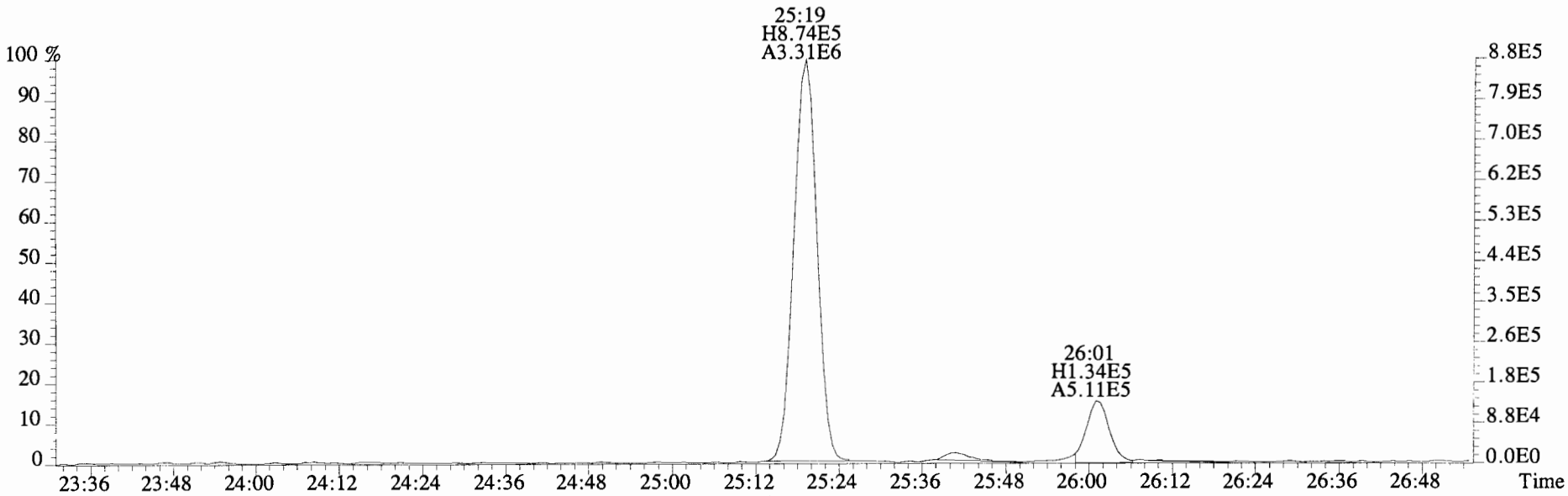
File:141021E2 #1-757 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3340.0,0.00%,F,F)



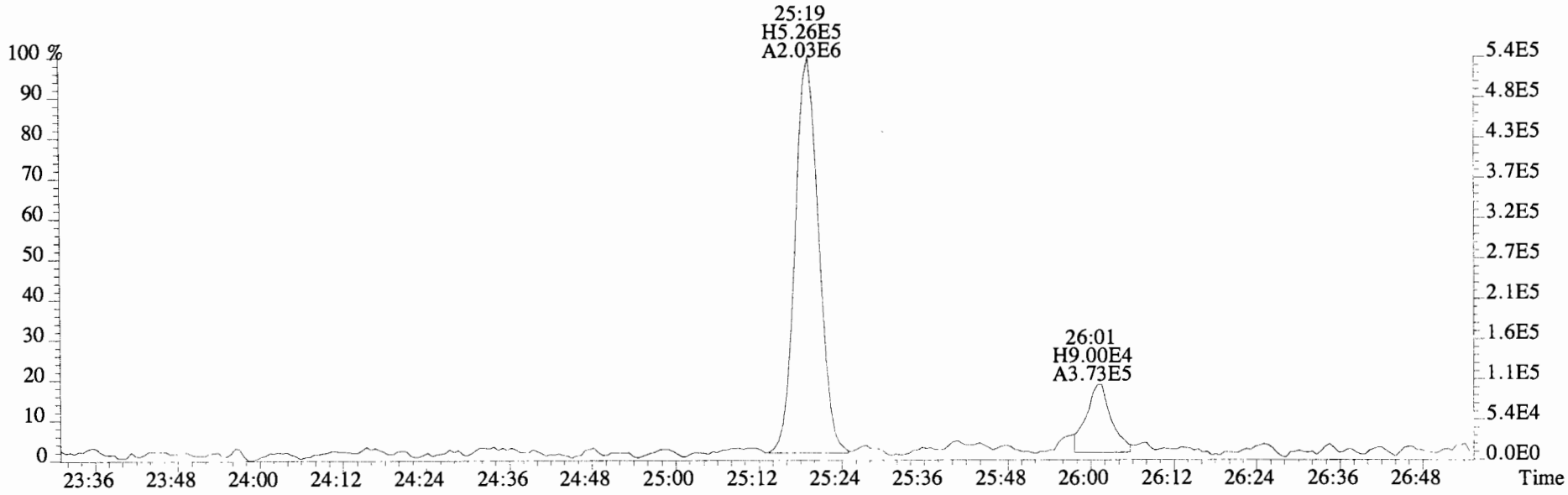
223.9974 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15600.0,0.00%,F,F)



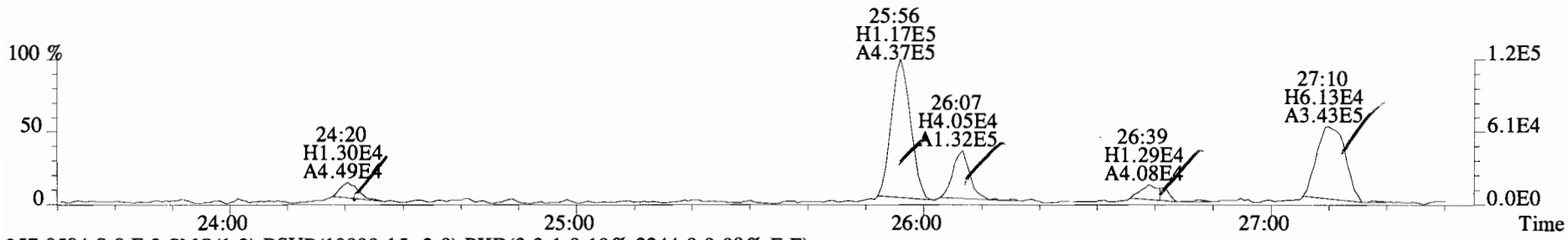
File:141021E2 #1-757 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3340.0,0.00%,F,F)



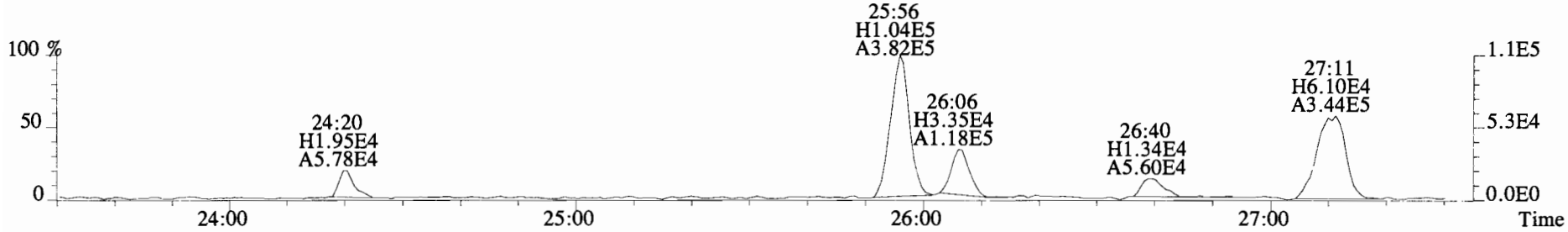
223.9974 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15600.0,0.00%,F,F)



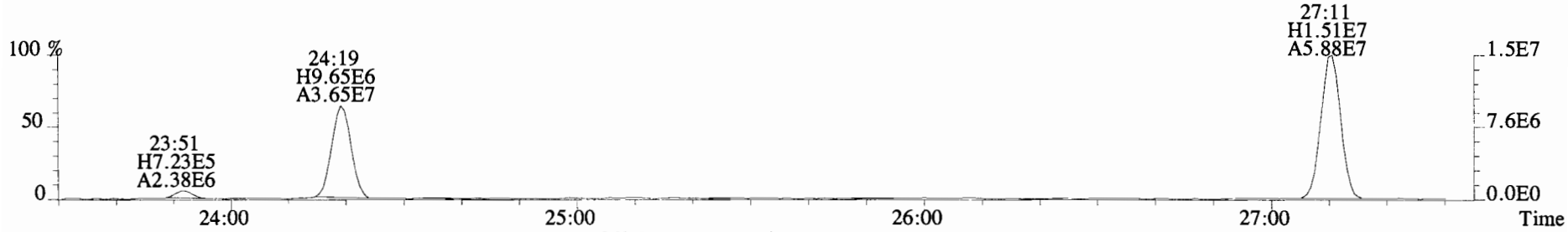
File:141021E2 #1-757 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
255.9613 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3332.0,0.00%,F,F)



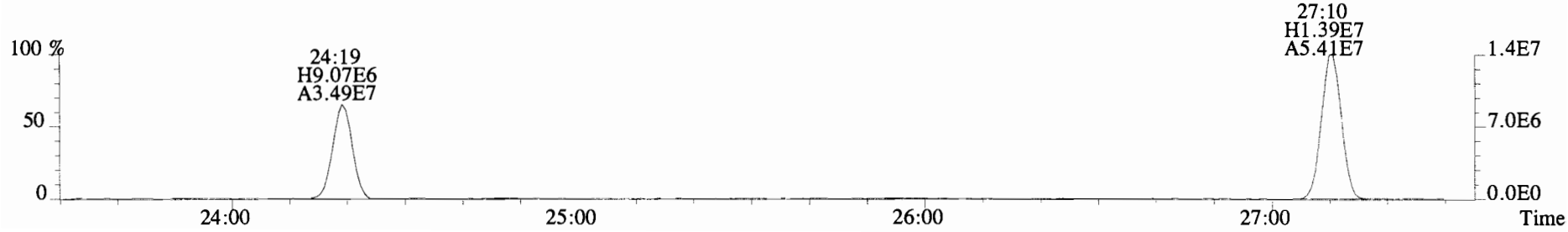
257.9584 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2244.0,0.00%,F,F)



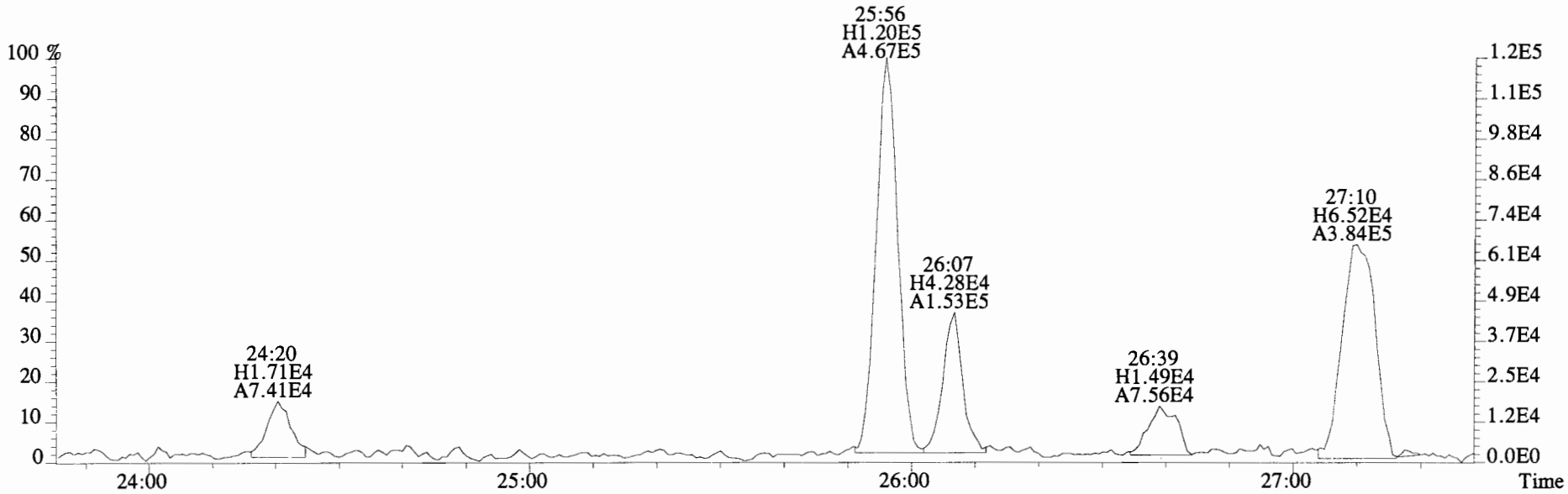
268.0016 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,143012.0,0.00%,F,F)



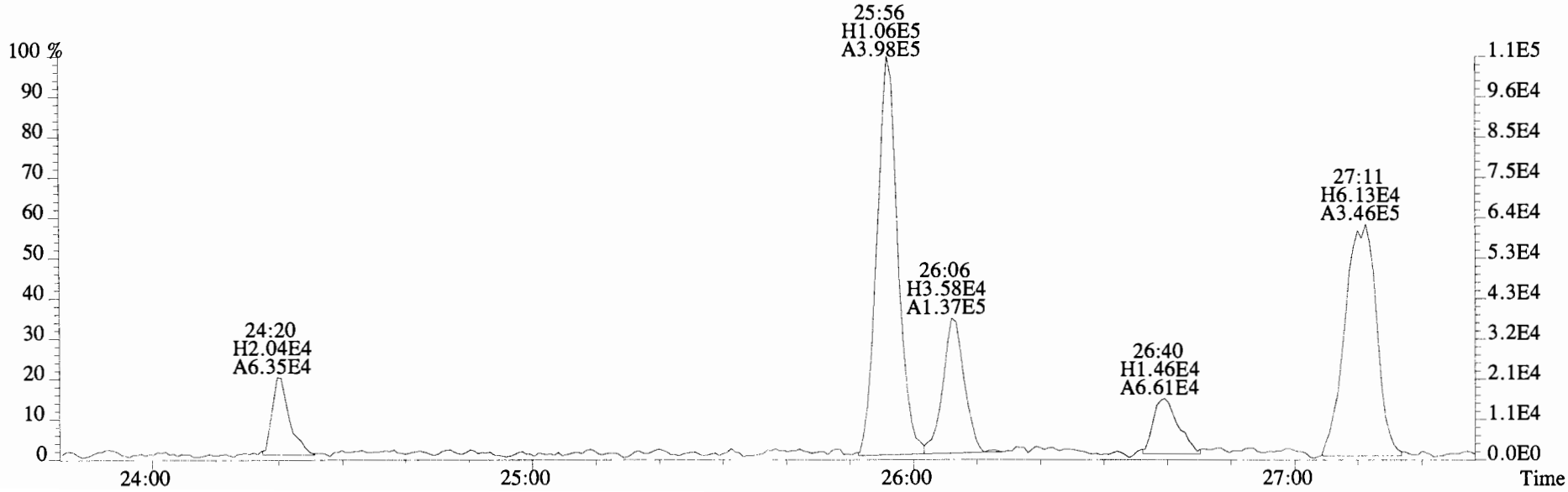
269.9986 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,36108.0,0.00%,F,F)

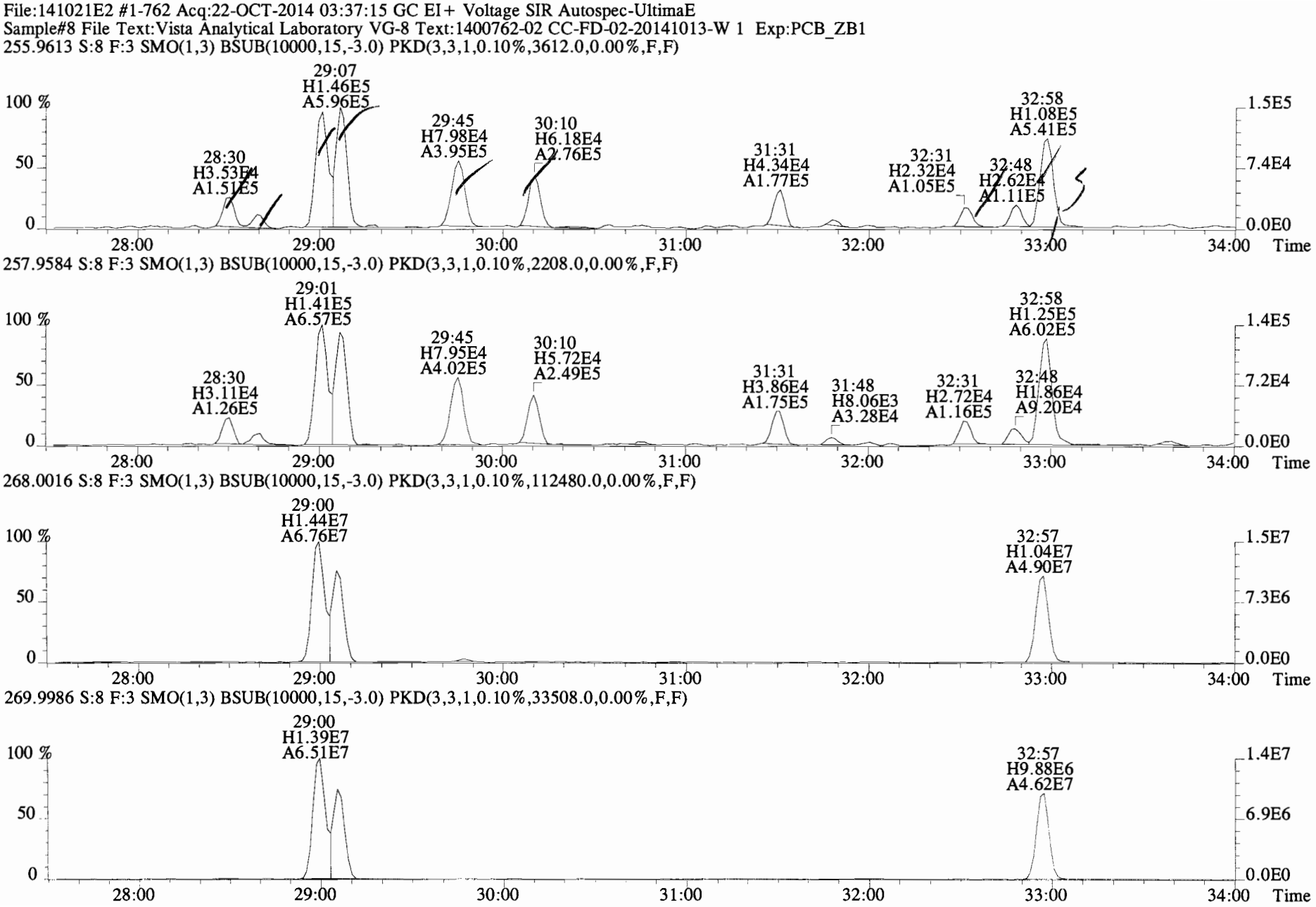


File:141021E2 #1-757 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
255.9613 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3332.0,0.00%,F,F)

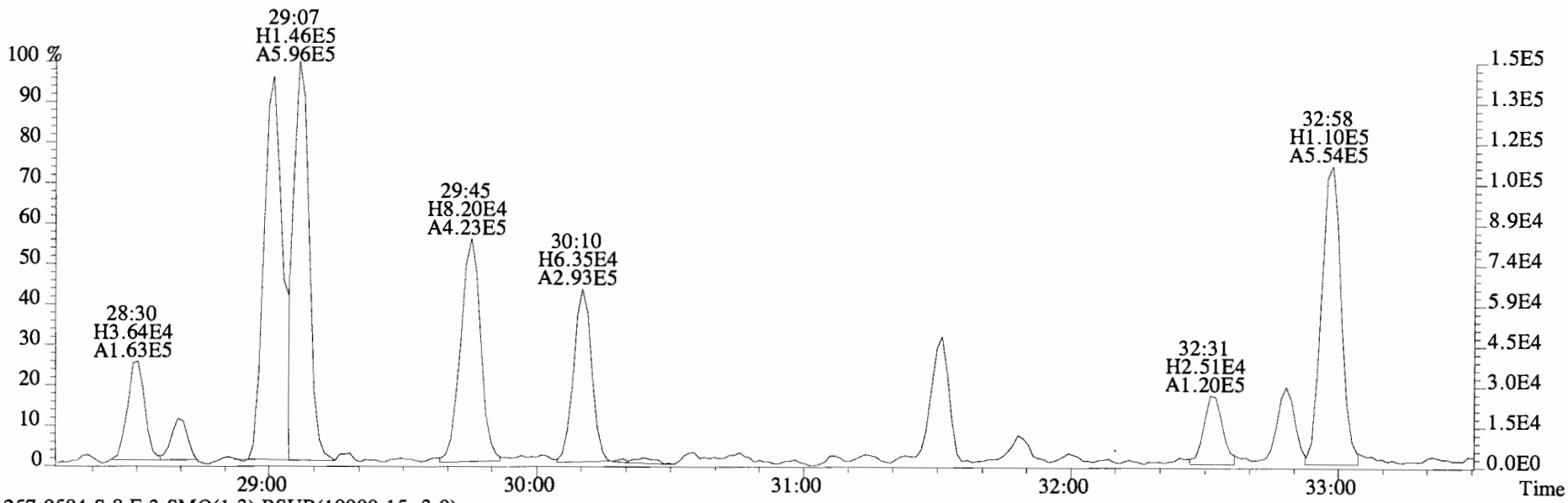


257.9584 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2244.0,0.00%,F,F)

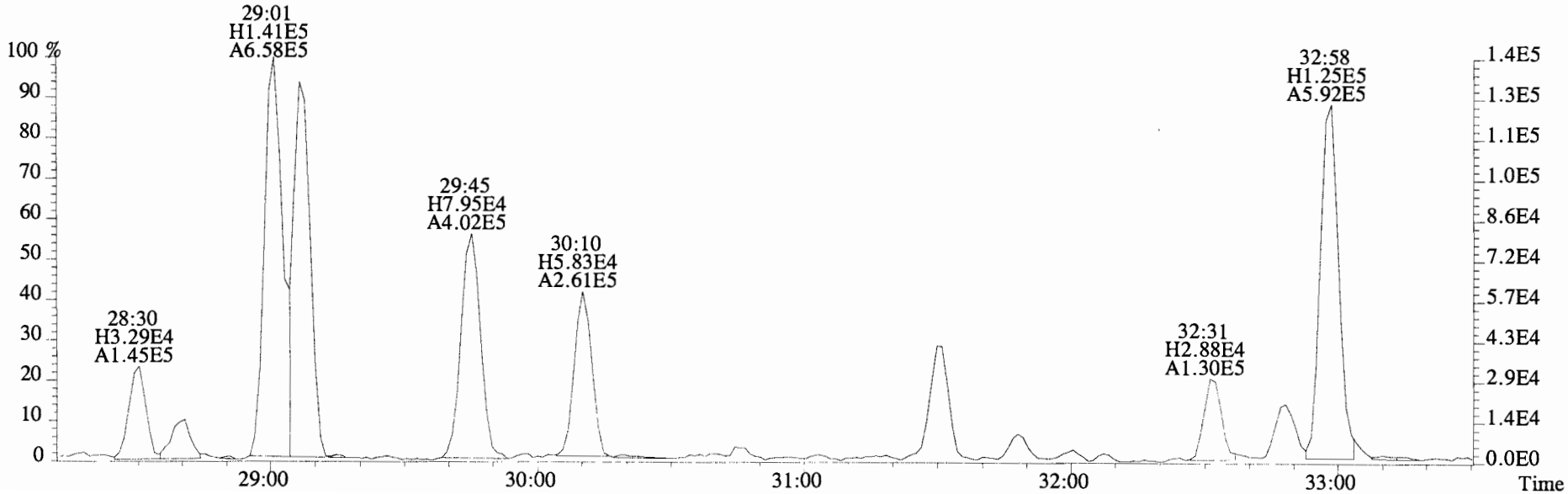



File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
255.9613 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3612.0,0.00%,F,F)
29:07 H1.46E5 A5.96E5
29:45 H7.98E4 A3.95E5
30:10 H6.18E4 A2.76E5
28:30 H3.53E4 A1.51E5
31:31 H4.34E4 A1.77E5
32:31 H2.32E4 A1.05E5
32:48 H2.62E4 A1.11E5
32:58 H1.08E5 A5.41E5
257.9584 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2208.0,0.00%,F,F)
29:01 H1.41E5 A6.57E5
29:45 H7.95E4 A4.02E5
30:10 H5.72E4 A2.49E5
28:30 H3.11E4 A1.26E5
31:31 H3.86E4 A1.75E5
31:48 H8.06E3 A3.28E4
32:31 H2.72E4 A1.16E5
32:48 H1.86E4 A9.20E4
32:58 H1.25E5 A6.02E5
268.0016 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,112480.0,0.00%,F,F)
29:00 H1.44E7 A6.76E7
32:57 H1.04E7 A4.90E7
269.9986 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,33508.0,0.00%,F,F)
29:00 H1.39E7 A6.51E7
32:57 H9.88E6 A4.62E7
100 %
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
Time
1.5E5
7.4E4
0.0E0
1.4E5
7.2E4
1.5E7
7.3E6
1.4E7
6.9E6

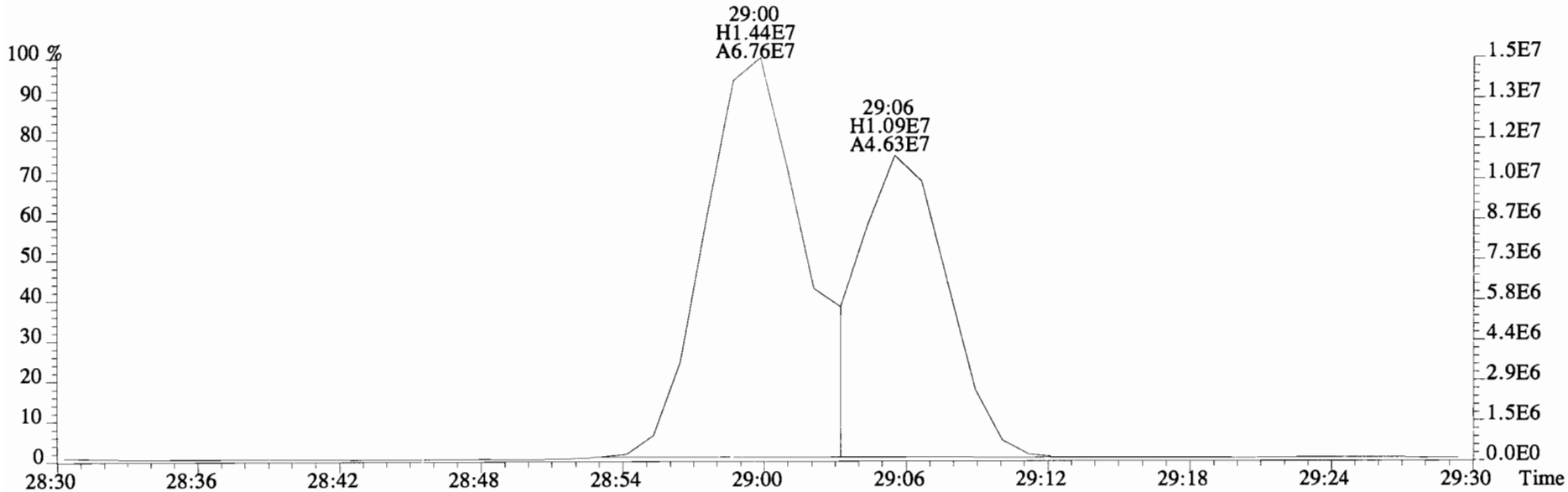
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
255.9613 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



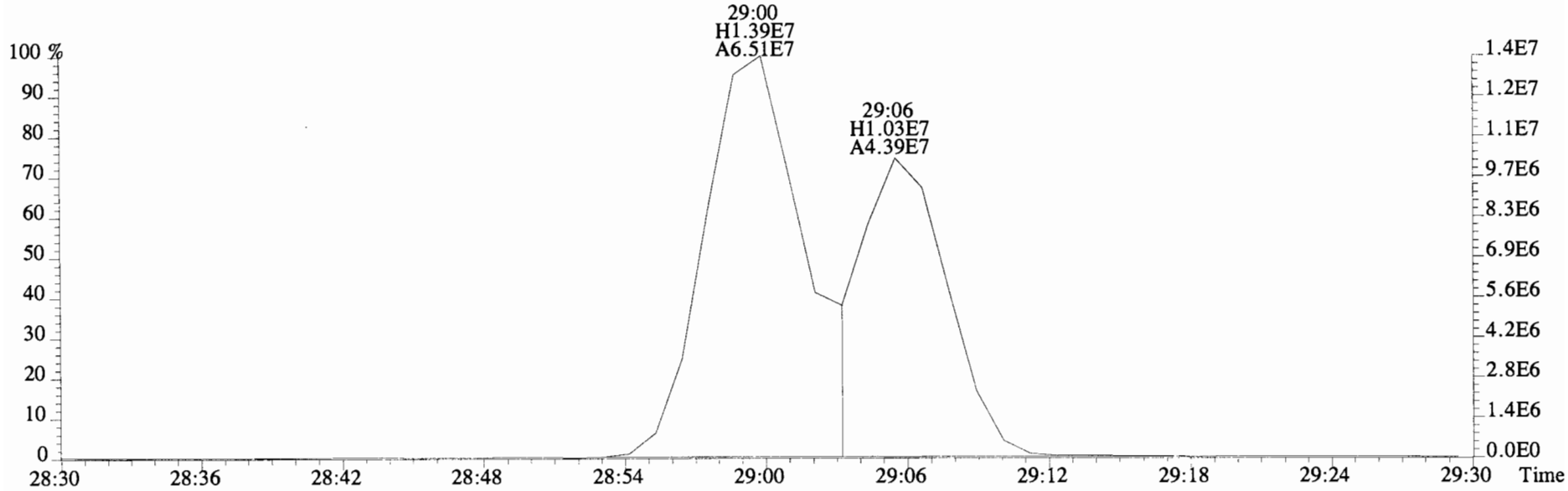
257.9584 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
268.0016 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,112480.0,0.00%,F,F)

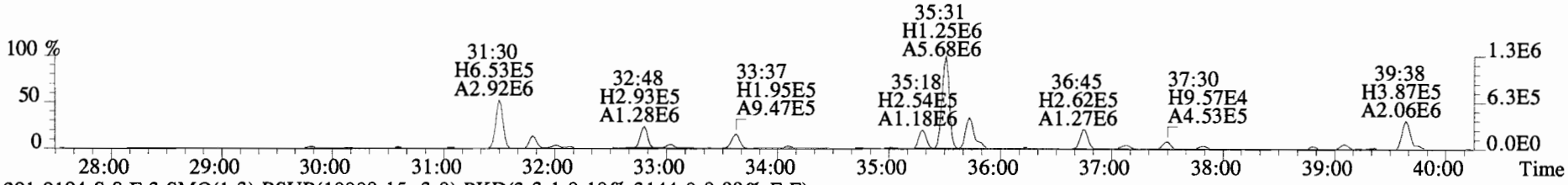


269.9986 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,33508.0,0.00%,F,F)

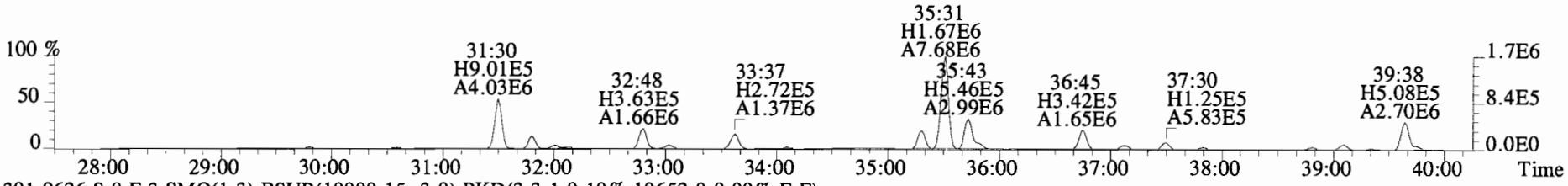


File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1

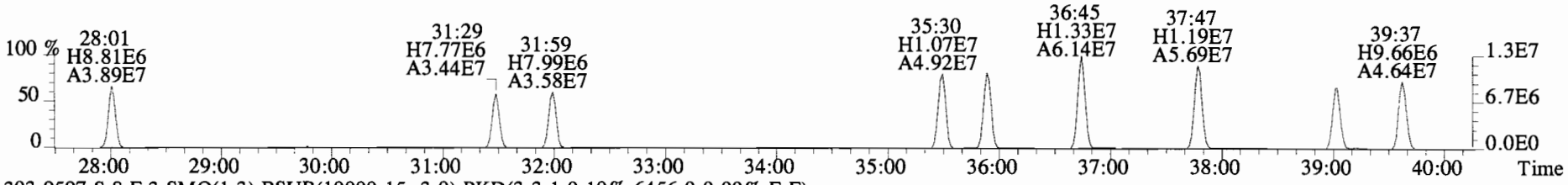
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4232.0,0.00%,F,F)



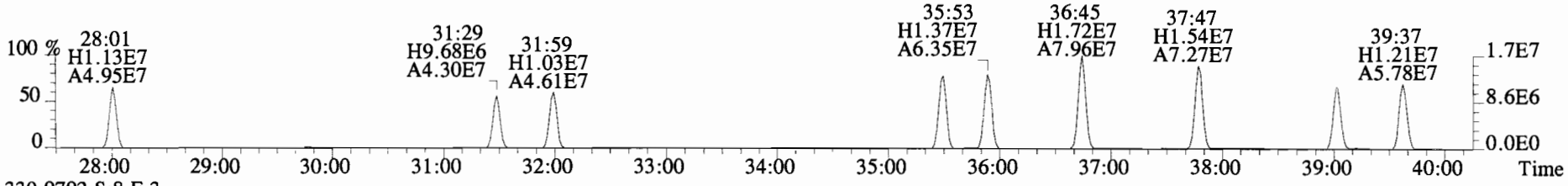
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3144.0,0.00%,F,F)



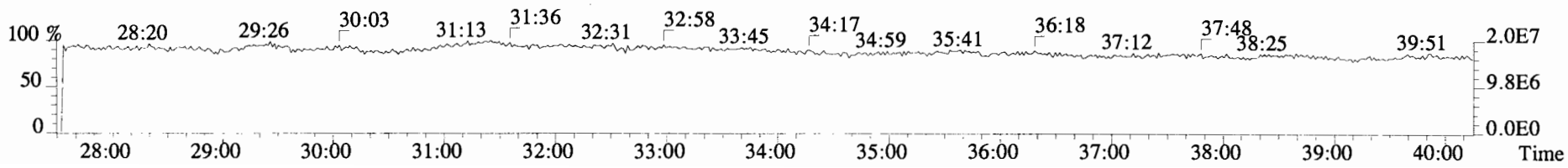
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10652.0,0.00%,F,F)



303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6456.0,0.00%,F,F)

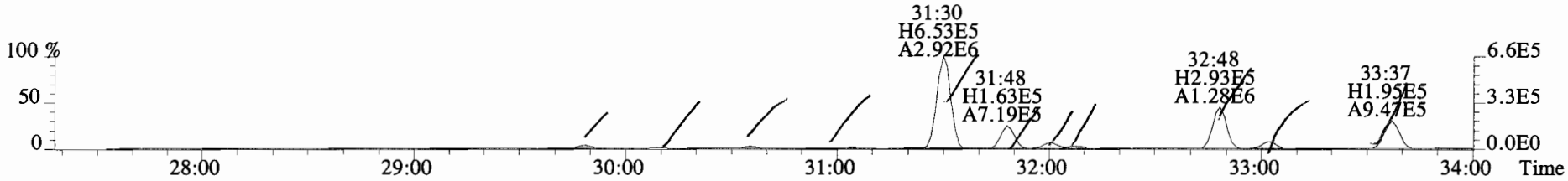


330.9792 S:8 F:3

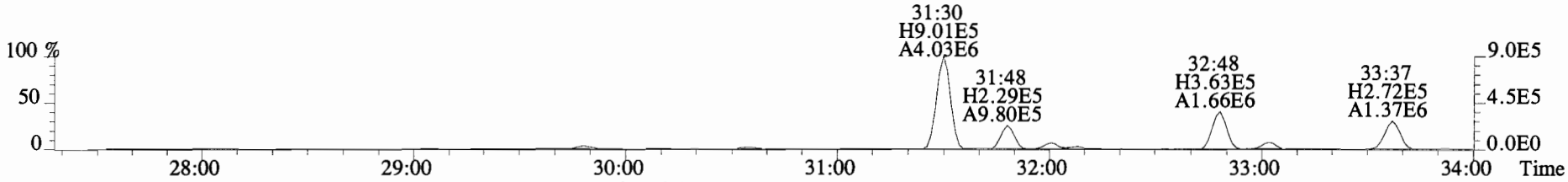


File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1

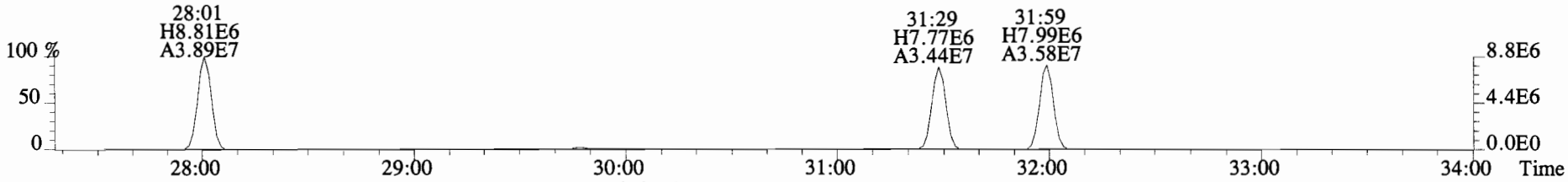
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4232.0,0.00%,F,F)



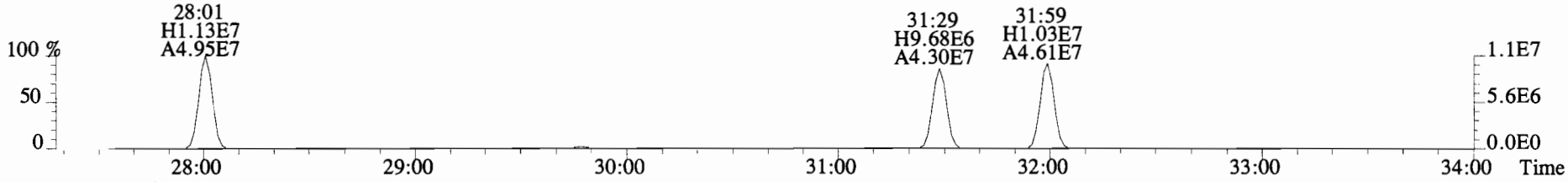
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3144.0,0.00%,F,F)



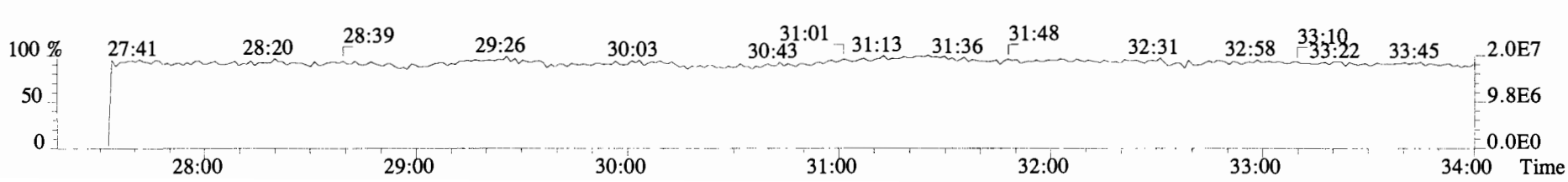
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10652.0,0.00%,F,F)

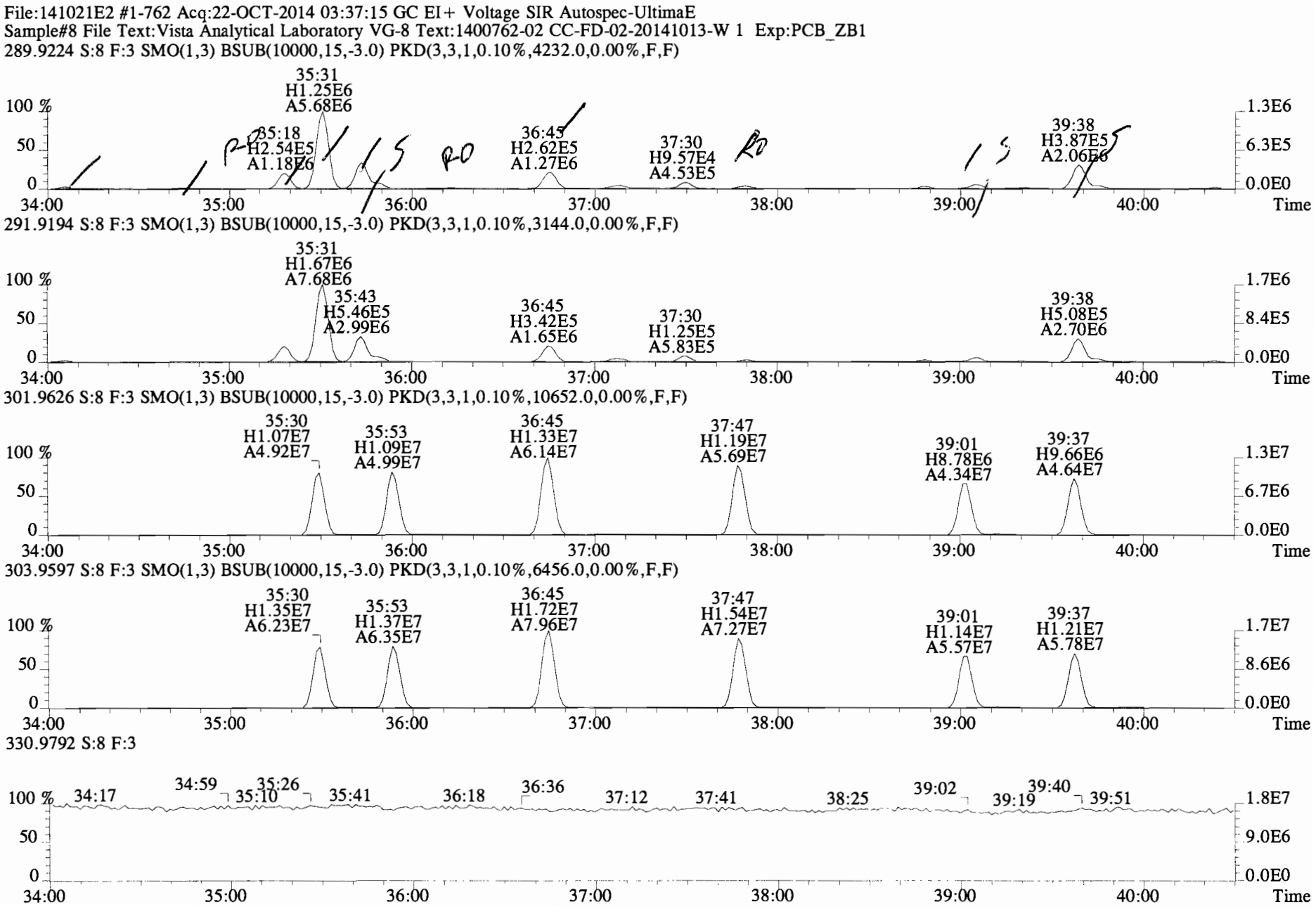


303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6456.0,0.00%,F,F)

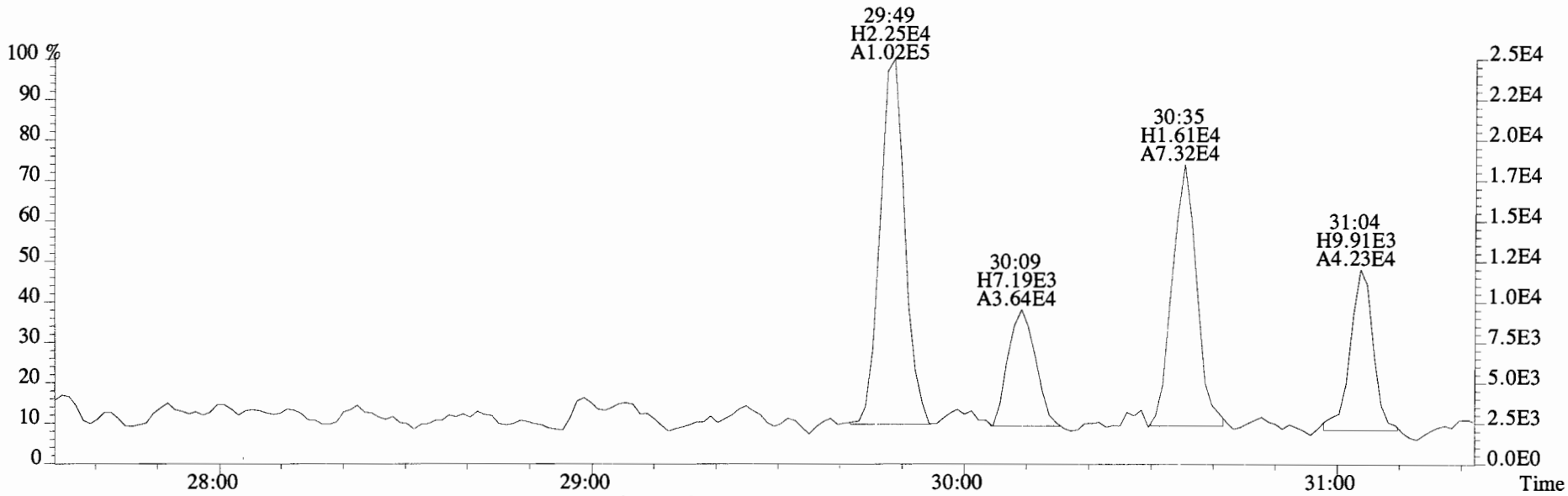


330.9792 S:8 F:3

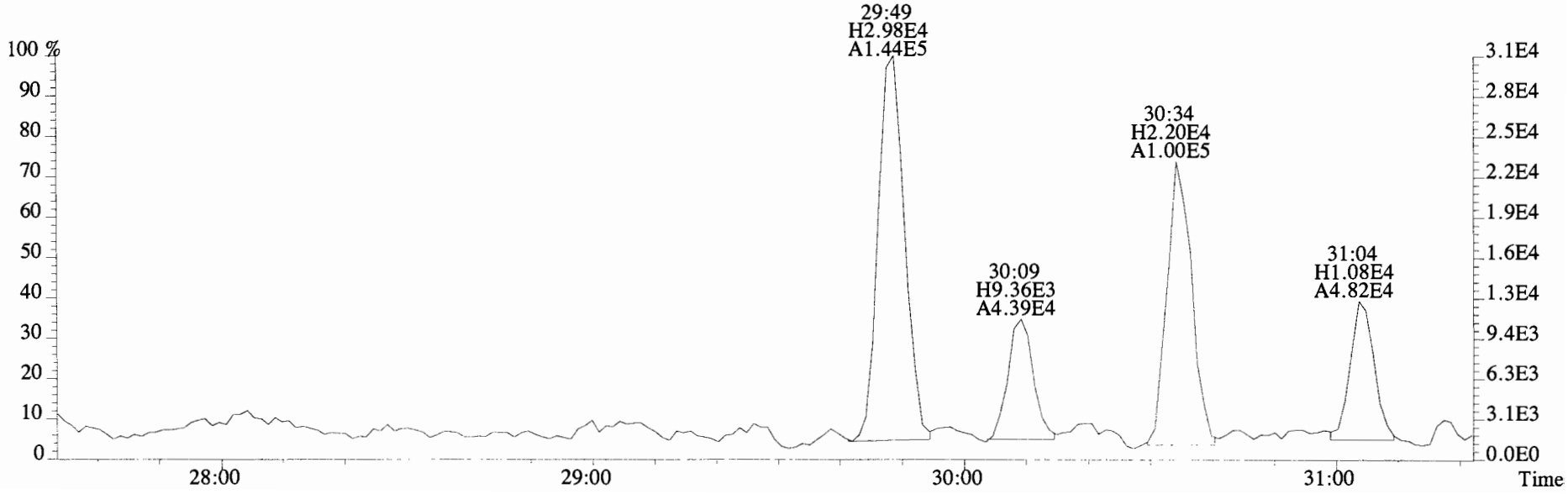



File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4232.0,0.00%,F,F)
35:31 H1.25E6 A5.68E6
35:18 H2.54E5 A1.18E6
36:45 H2.62E5 A1.27E6
37:30 H9.57E4 A4.53E5
39:38 H3.87E5 A2.06E6
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3144.0,0.00%,F,F)
35:31 H1.67E6 A7.68E6
35:43 H5.46E5 A2.99E6
36:45 H3.42E5 A1.65E6
37:30 H1.25E5 A5.83E5
39:38 H5.08E5 A2.70E6
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10652.0,0.00%,F,F)
35:30 H1.07E7 A4.92E7
35:53 H1.09E7 A4.99E7
36:45 H1.33E7 A6.14E7
37:47 H1.19E7 A5.69E7
39:01 H8.78E6 A4.34E7
39:37 H9.66E6 A4.64E7
303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6456.0,0.00%,F,F)
35:30 H1.35E7 A6.23E7
35:53 H1.37E7 A6.35E7
36:45 H1.72E7 A7.96E7
37:47 H1.54E7 A7.27E7
39:01 H1.14E7 A5.57E7
39:37 H1.21E7 A5.78E7
330.9792 S:8 F:3
34:17
34:59
35:10
35:26
35:41
36:18
36:36
37:12
37:41
38:25
39:02
39:19
39:40
39:51
100 %
50
0
34:00
35:00
36:00
37:00
38:00
39:00
40:00
Time
1.3E6
6.3E5
0.0E0
1.7E6
8.4E5
1.3E7
6.7E6
1.7E7
8.6E6
1.8E7
9.0E6

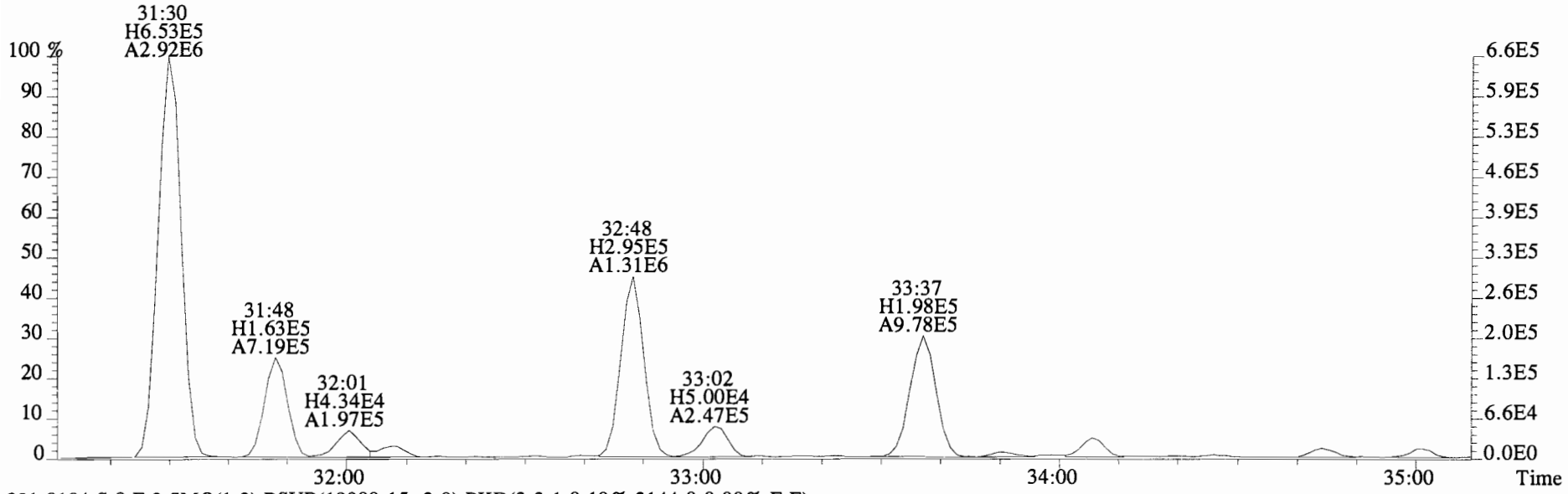
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4232.0,0.00%,F,F)



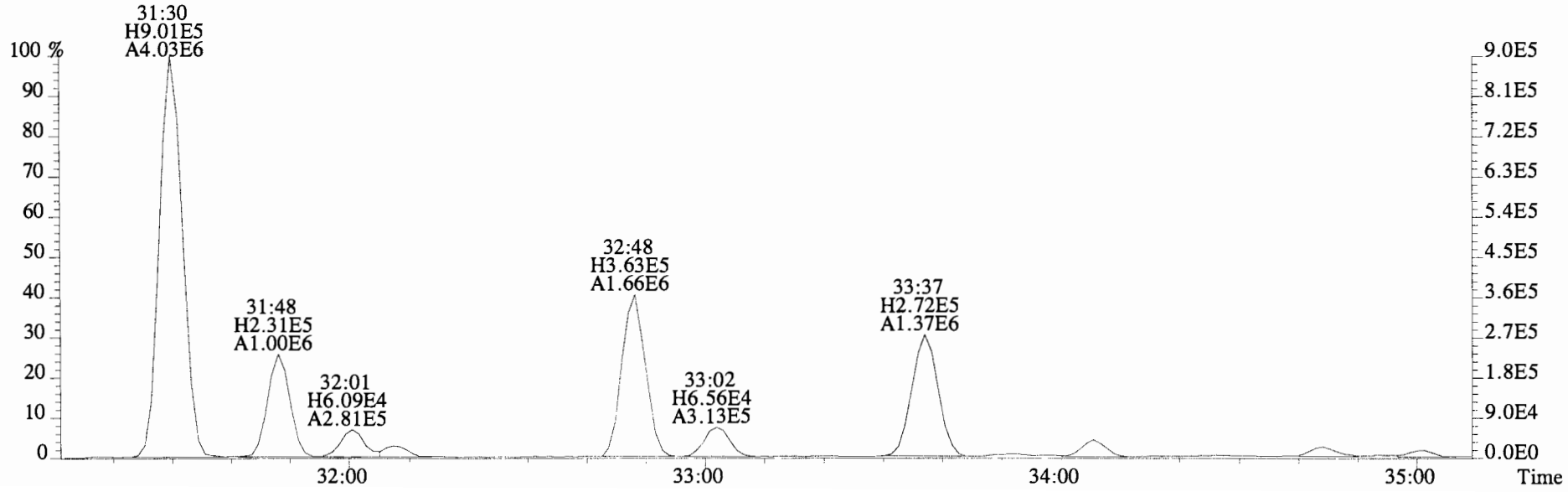
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3144.0,0.00%,F,F)



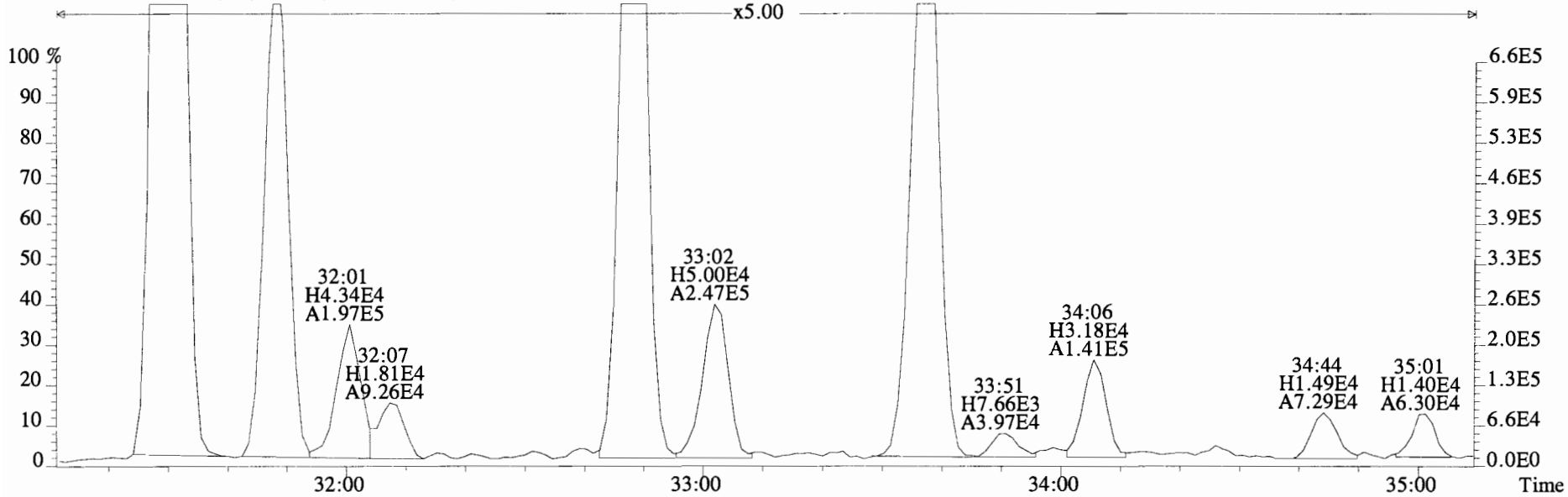
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4232.0,0.00%,F,F)



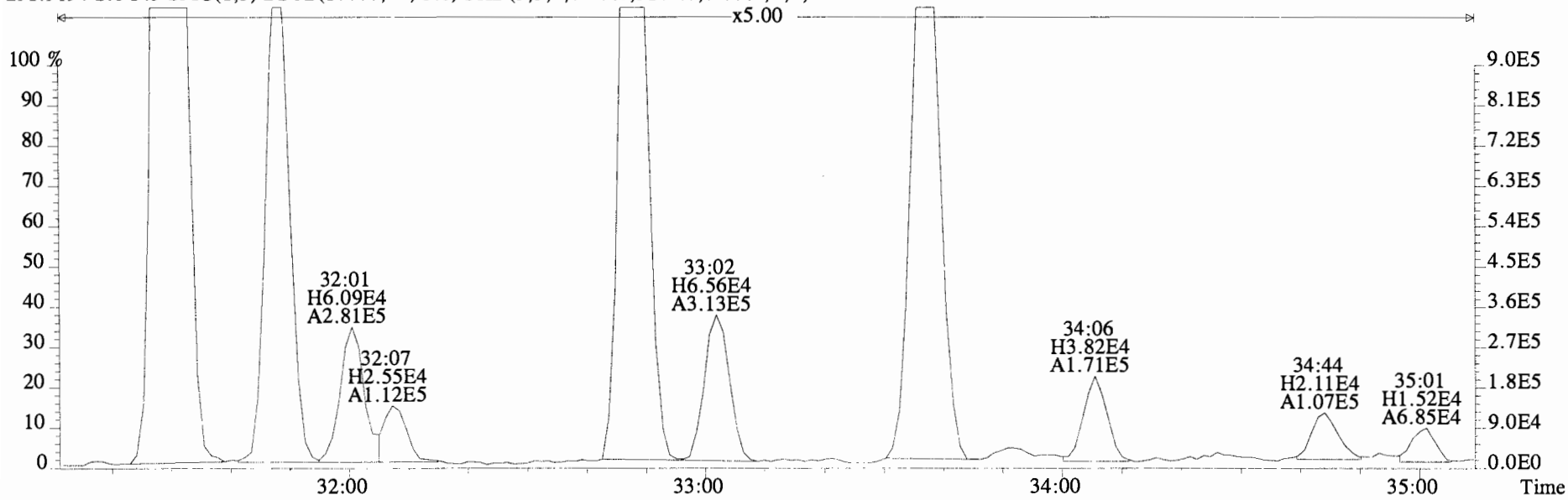
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3144.0,0.00%,F,F)



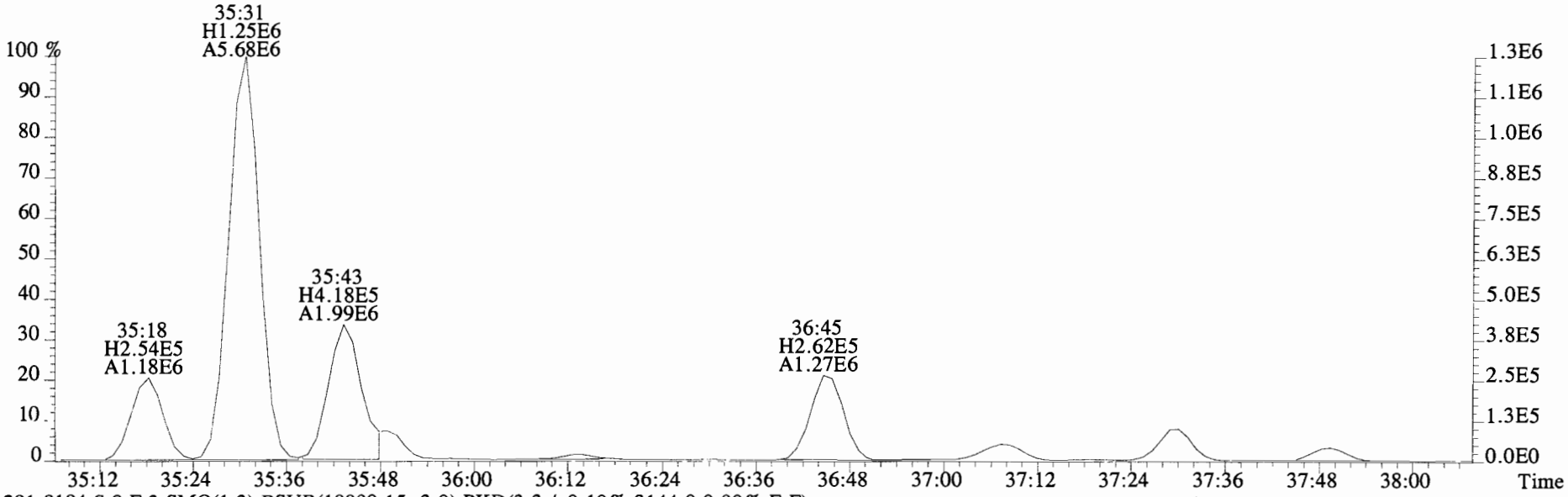
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4232.0,0.00%,F,F)



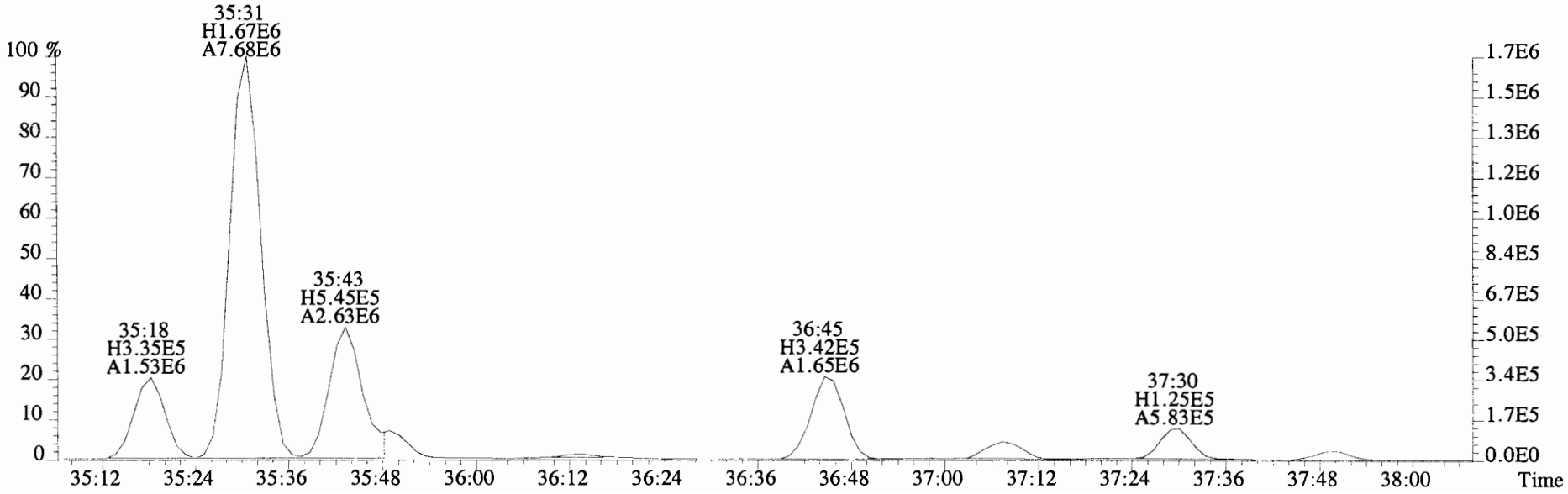
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3144.0,0.00%,F,F)



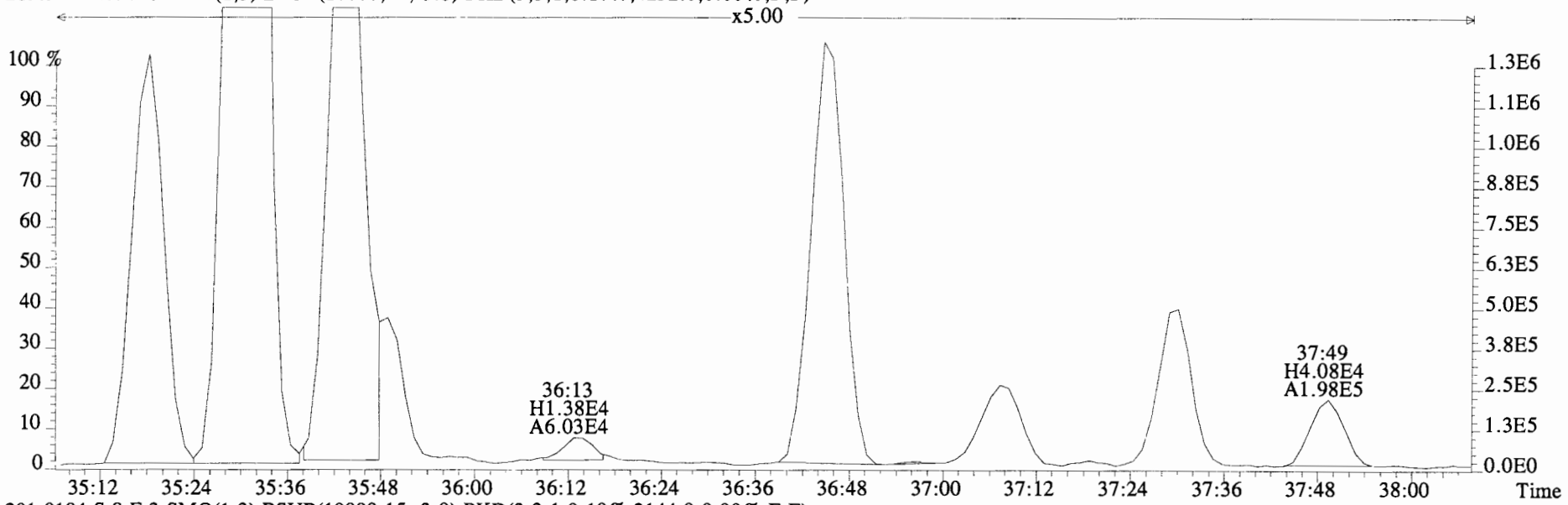
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4232.0,0.00%,F,F)



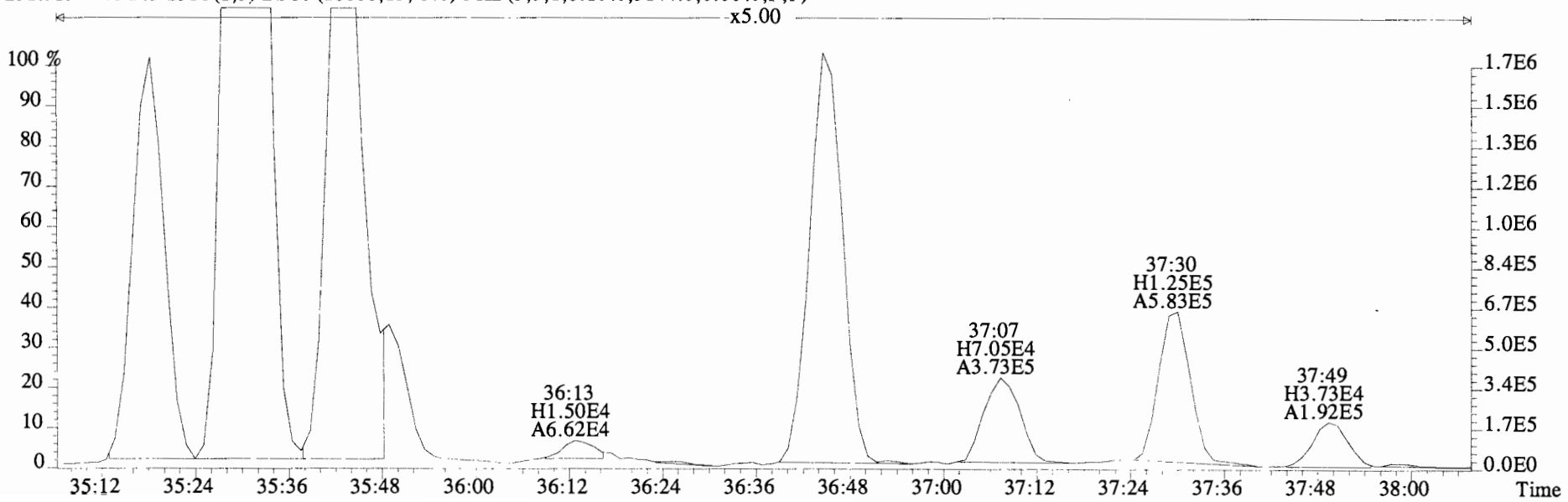
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3144.0,0.00%,F,F)



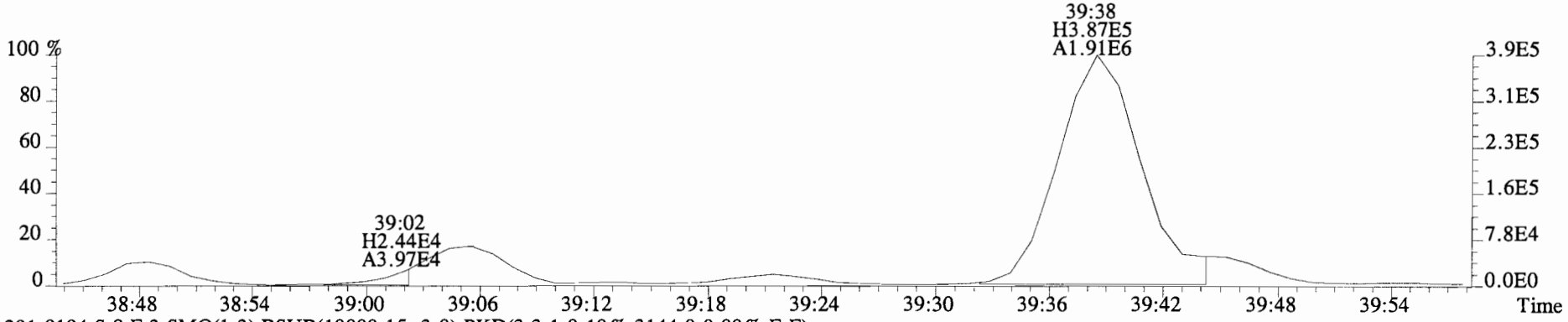
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4232.0,0.00%,F,F)



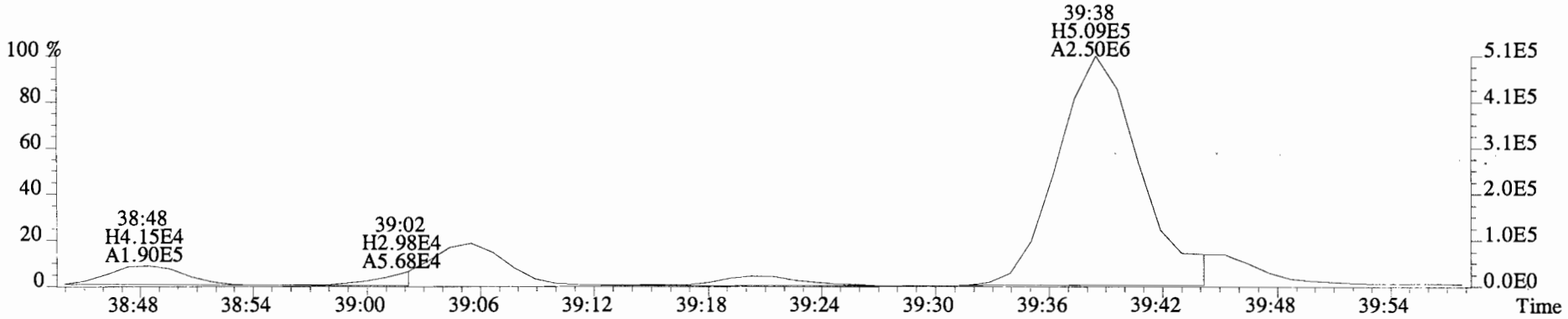
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3144.0,0.00%,F,F)



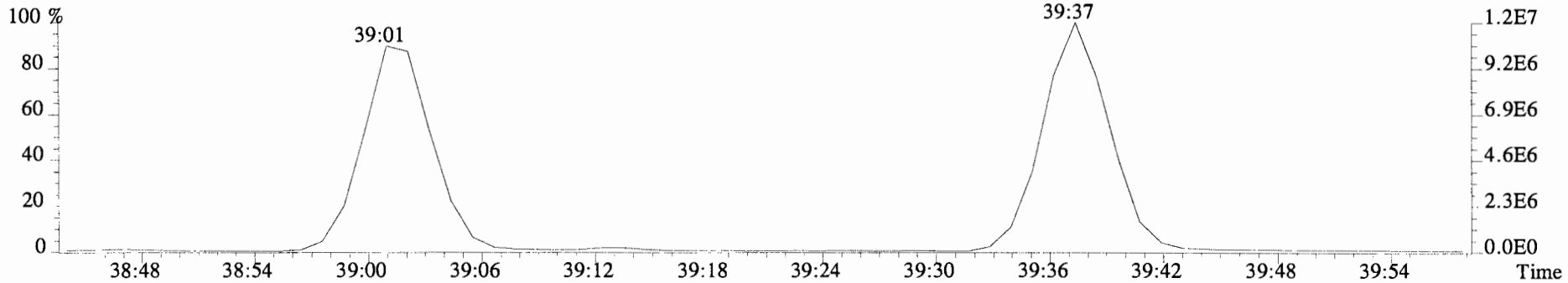
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4232.0,0.00%,F,F)



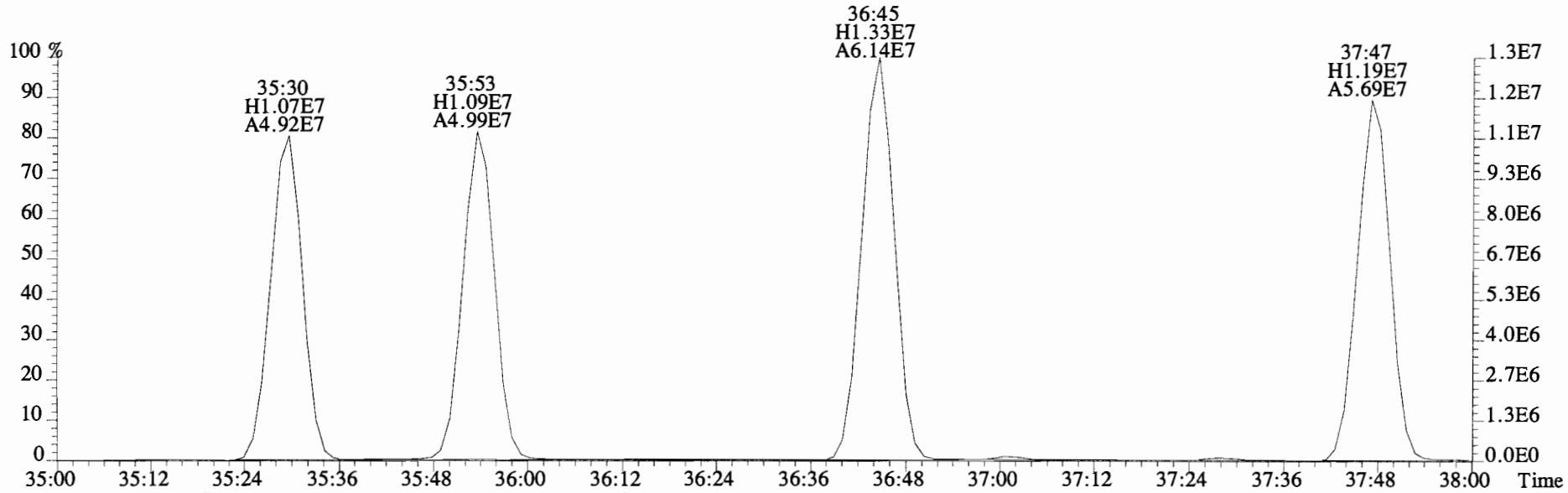
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3144.0,0.00%,F,F)



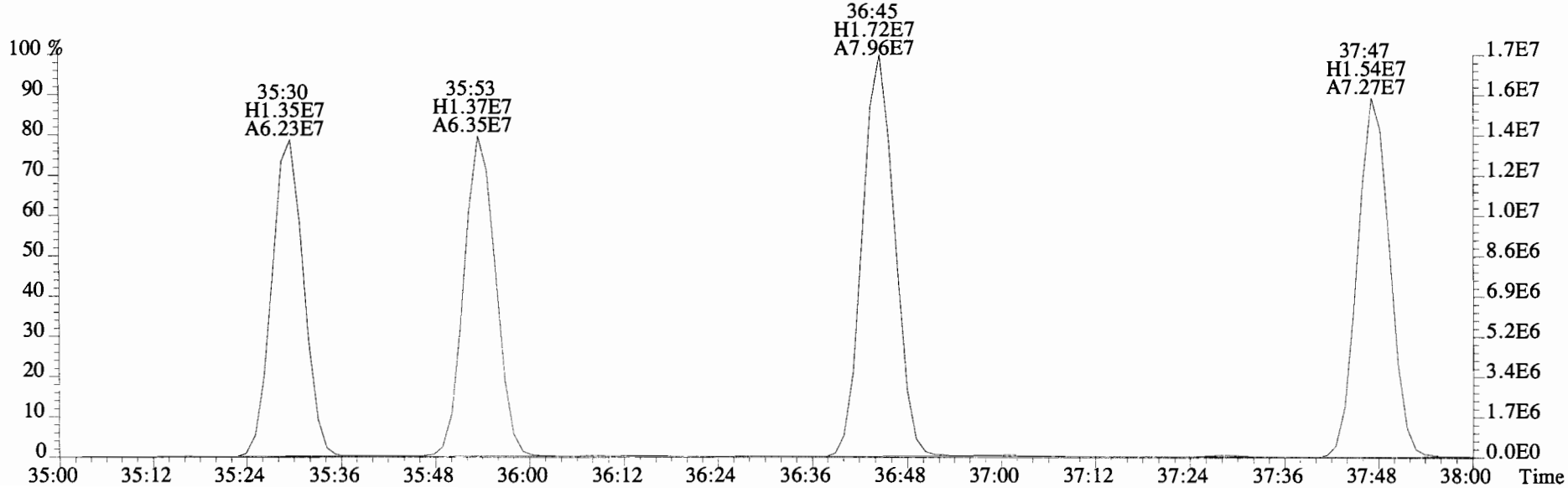
301.9626 S:8 F:3



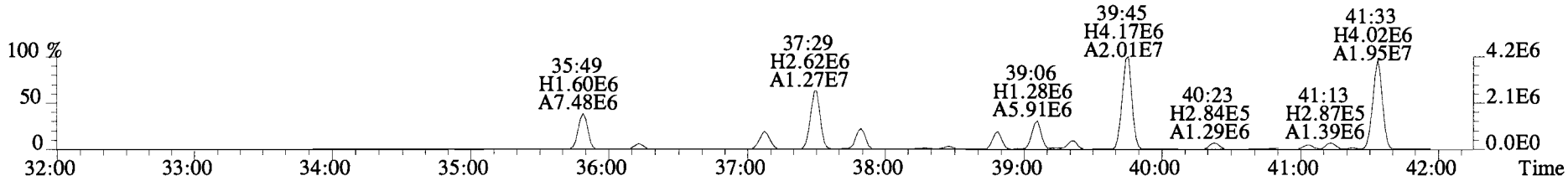
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10652.0,0.00%,F,F)



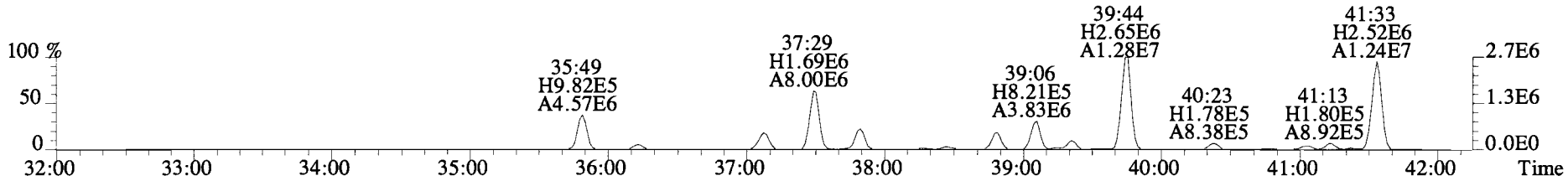
303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6456.0,0.00%,F,F)



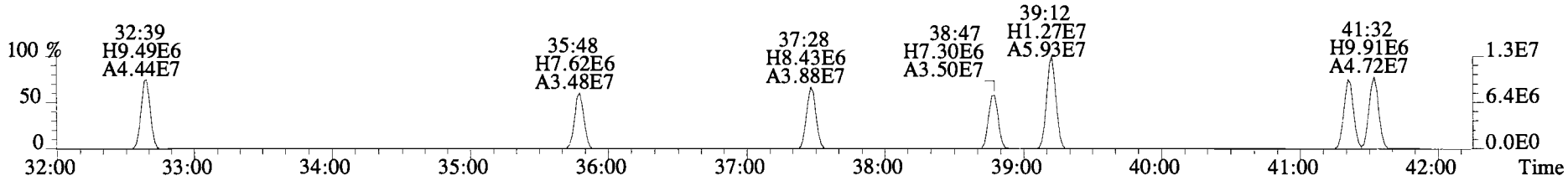
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1932.0,0.00%,F,F)



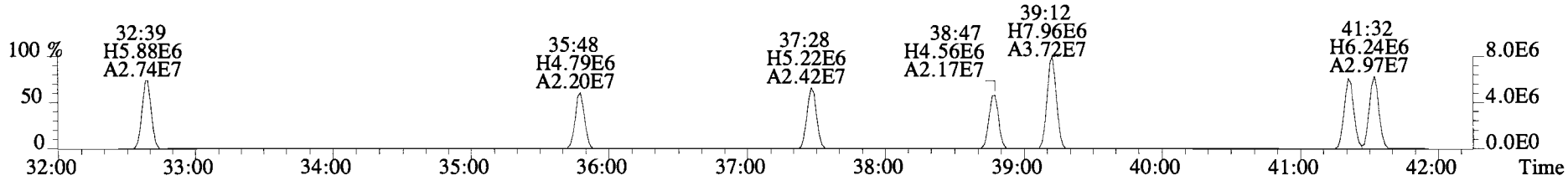
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2664.0,0.00%,F,F)



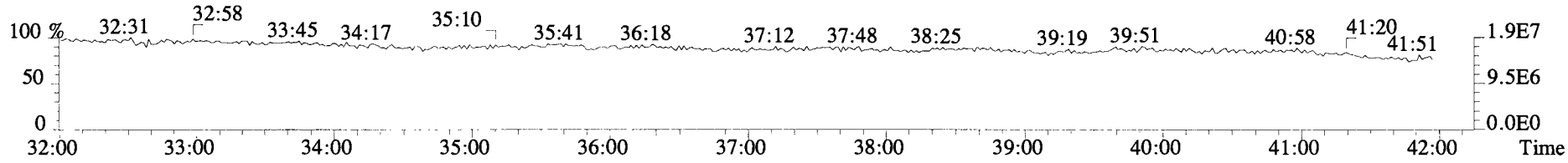
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2816.0,0.00%,F,F)

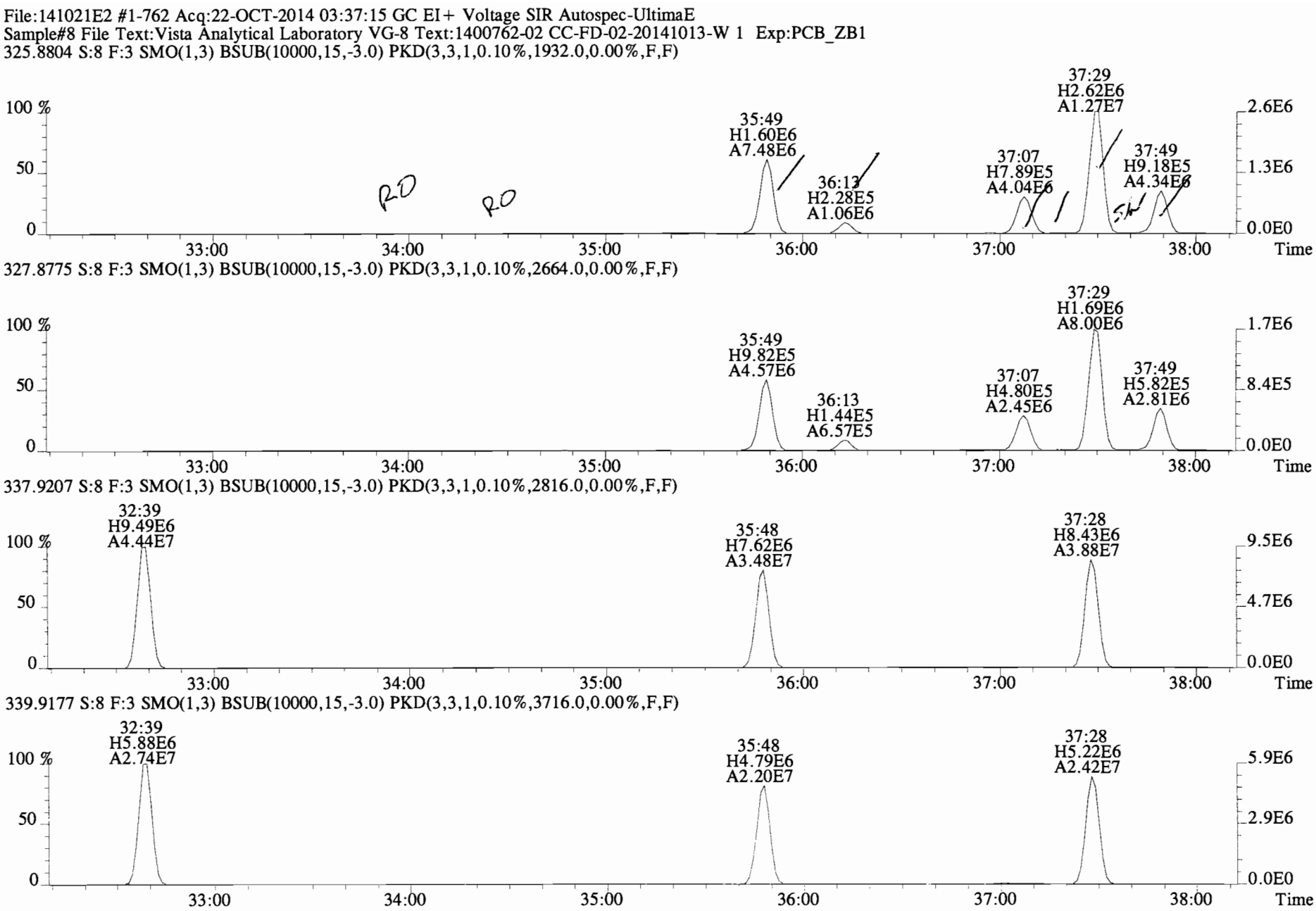


339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3716.0,0.00%,F,F)

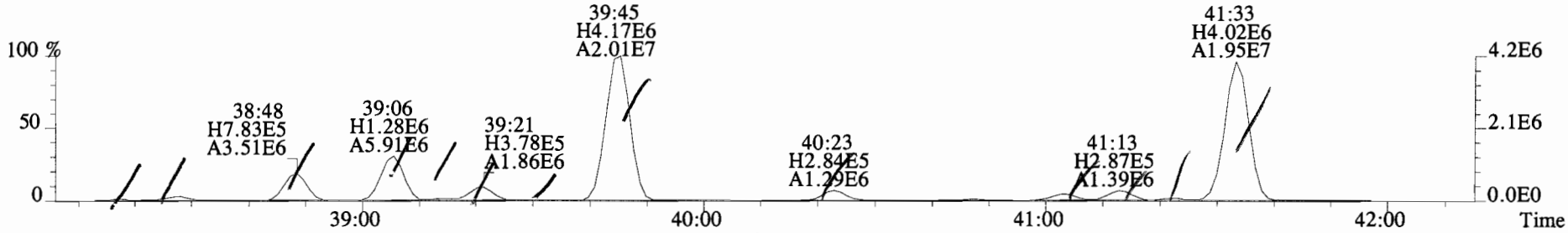


330.9792 S:8 F:3

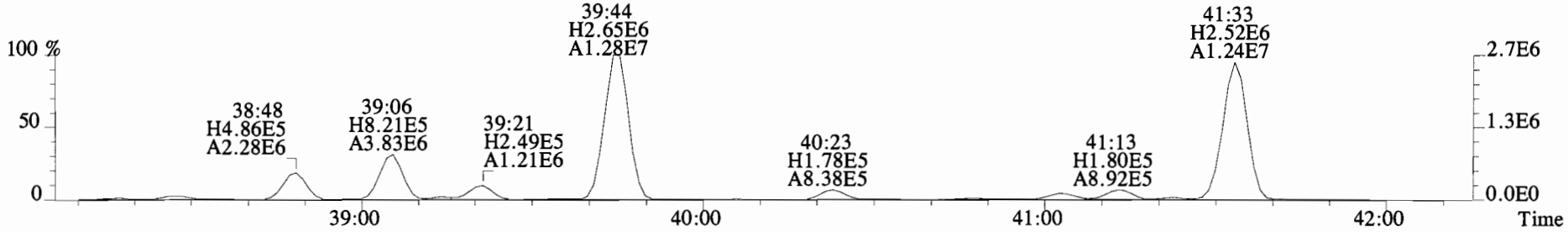



File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1932.0,0.00%,F,F)
100 %
50
0
35:49
H1.60E6
A7.48E6
36:13
H2.28E5
A1.06E6
37:07
H7.89E5
A4.04E6
37:29
H2.62E6
A1.27E7
37:49
H9.18E5
A4.34E6
2.6E6
1.3E6
0.0E0
33:00
34:00
35:00
36:00
37:00
38:00
Time
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2664.0,0.00%,F,F)
35:49
H9.82E5
A4.57E6
36:13
H1.44E5
A6.57E5
37:07
H4.80E5
A2.45E6
37:29
H1.69E6
A8.00E6
37:49
H5.82E5
A2.81E6
1.7E6
8.4E5
0.0E0
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2816.0,0.00%,F,F)
32:39
H9.49E6
A4.44E7
35:48
H7.62E6
A3.48E7
37:28
H8.43E6
A3.88E7
9.5E6
4.7E6
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3716.0,0.00%,F,F)
32:39
H5.88E6
A2.74E7
35:48
H4.79E6
A2.20E7
37:28
H5.22E6
A2.42E7
5.9E6
2.9E6

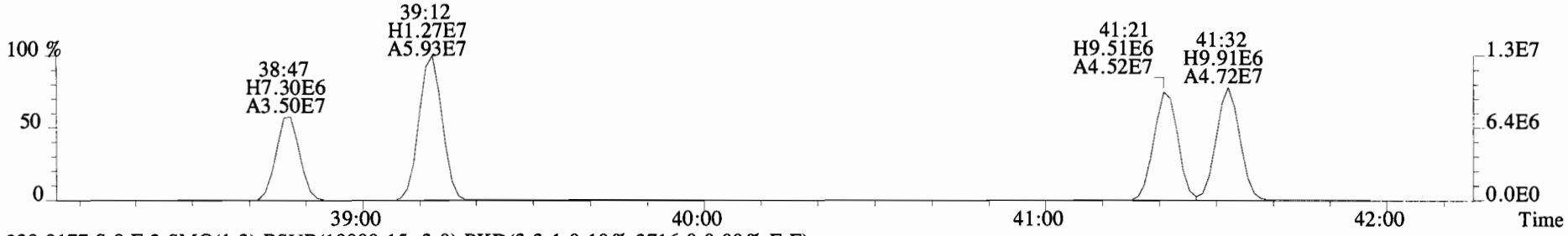
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1932.0,0.00%,F,F)



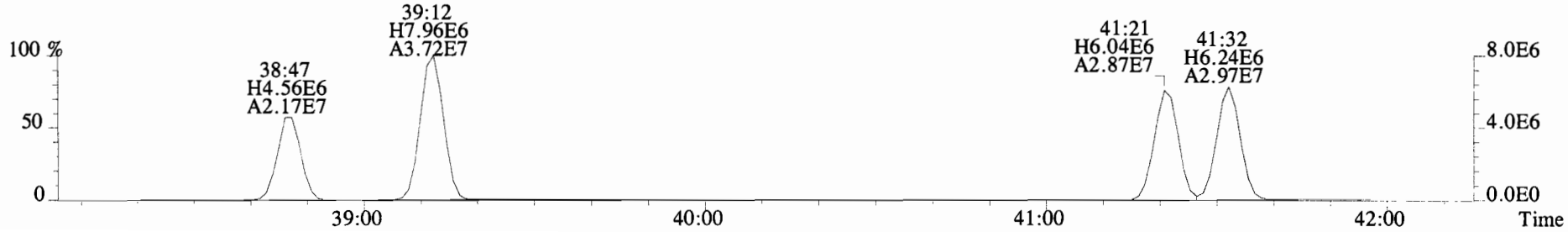
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2664.0,0.00%,F,F)



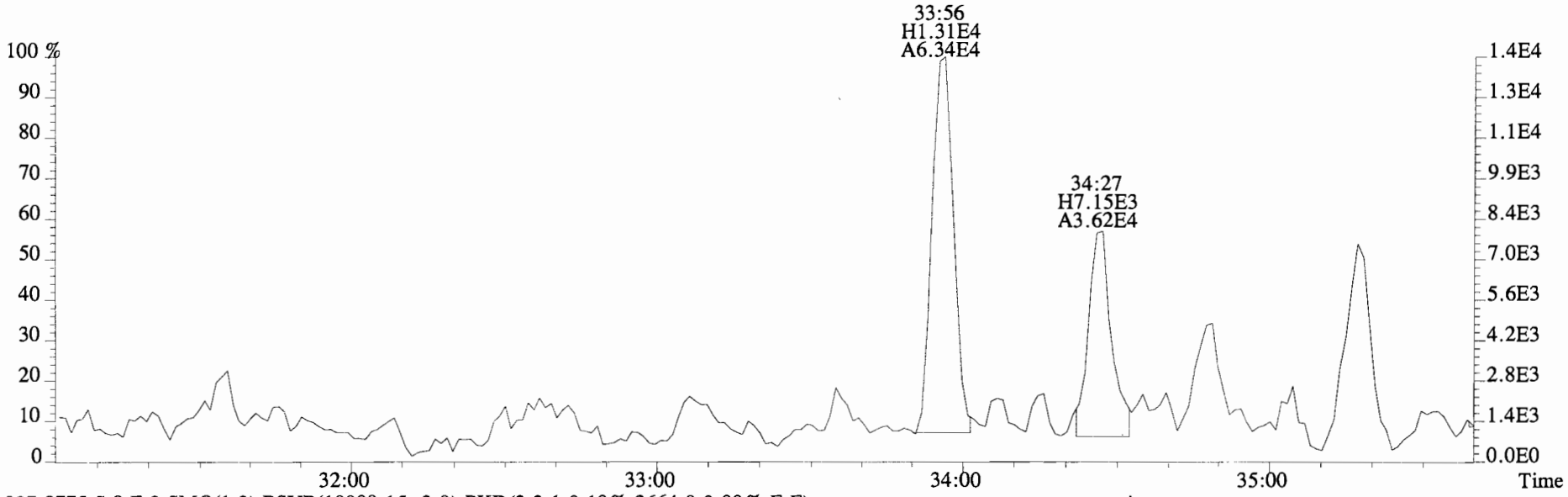
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2816.0,0.00%,F,F)



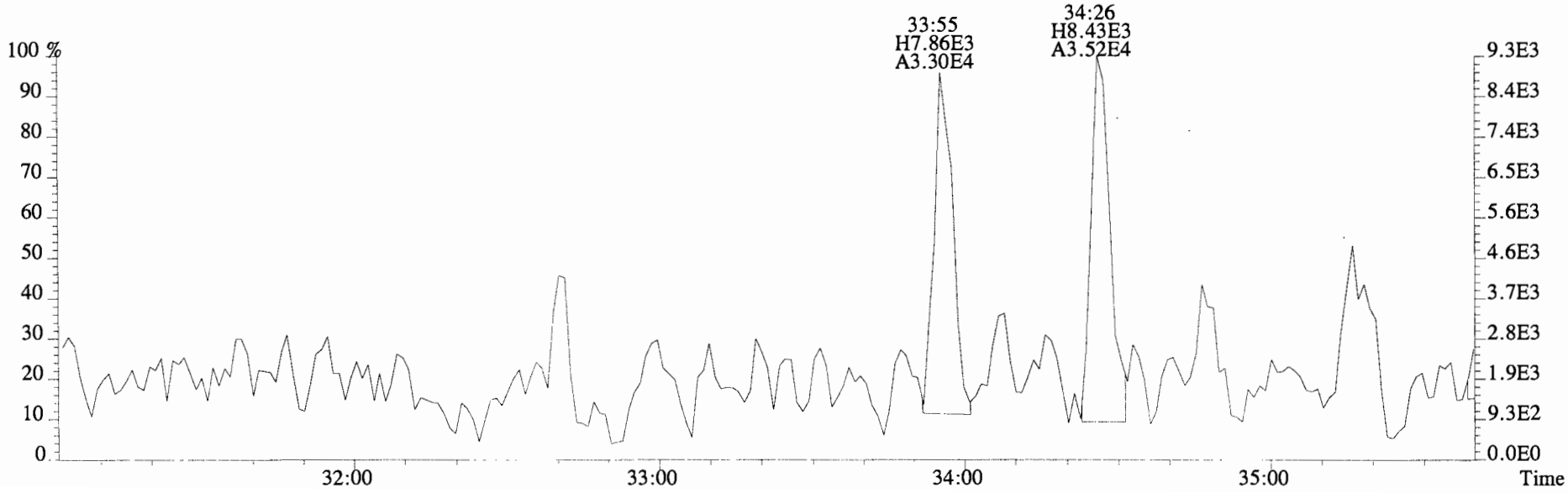
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3716.0,0.00%,F,F)



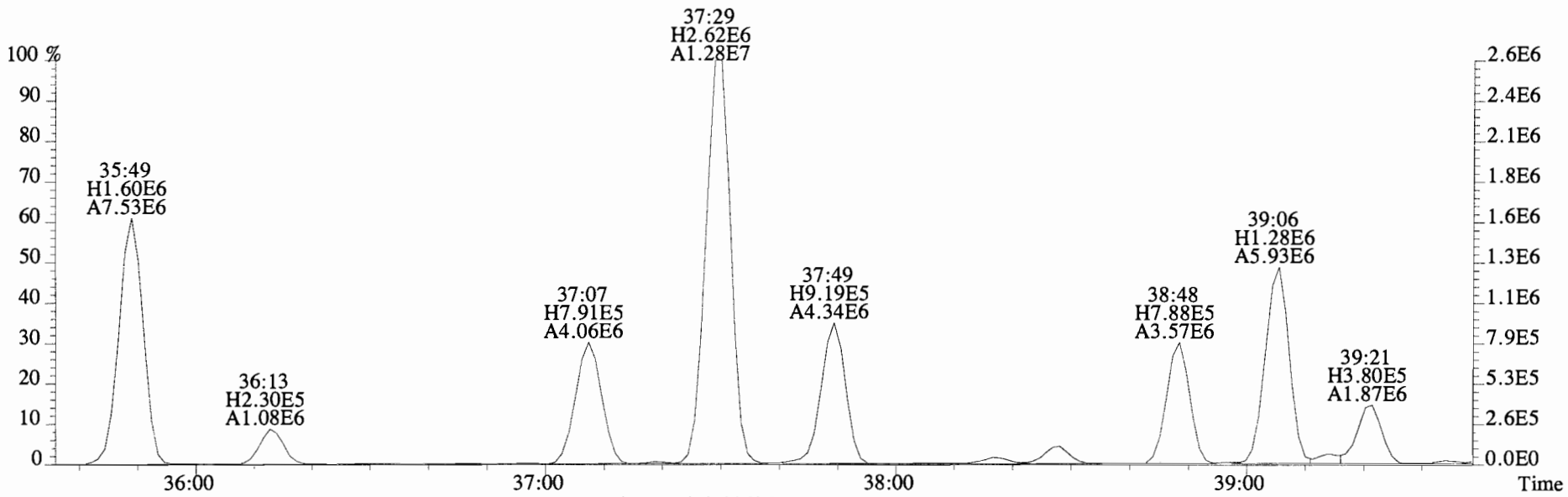
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1932.0,0.00%,F,F)



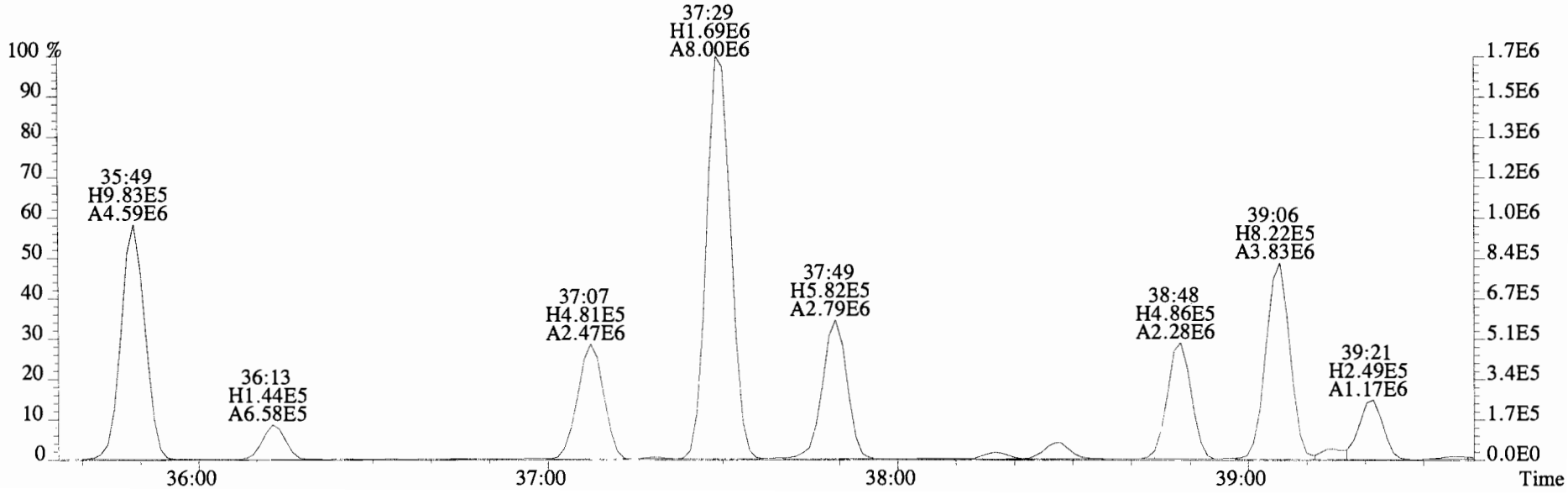
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2664.0,0.00%,F,F)



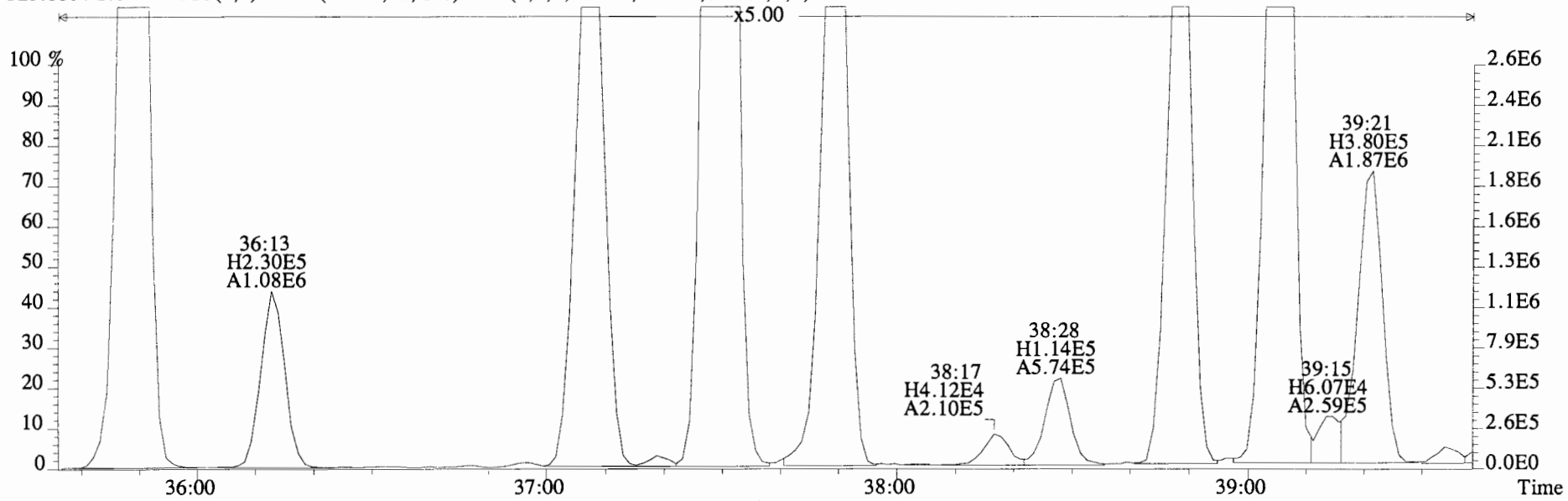
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1932.0,0.00%,F,F)



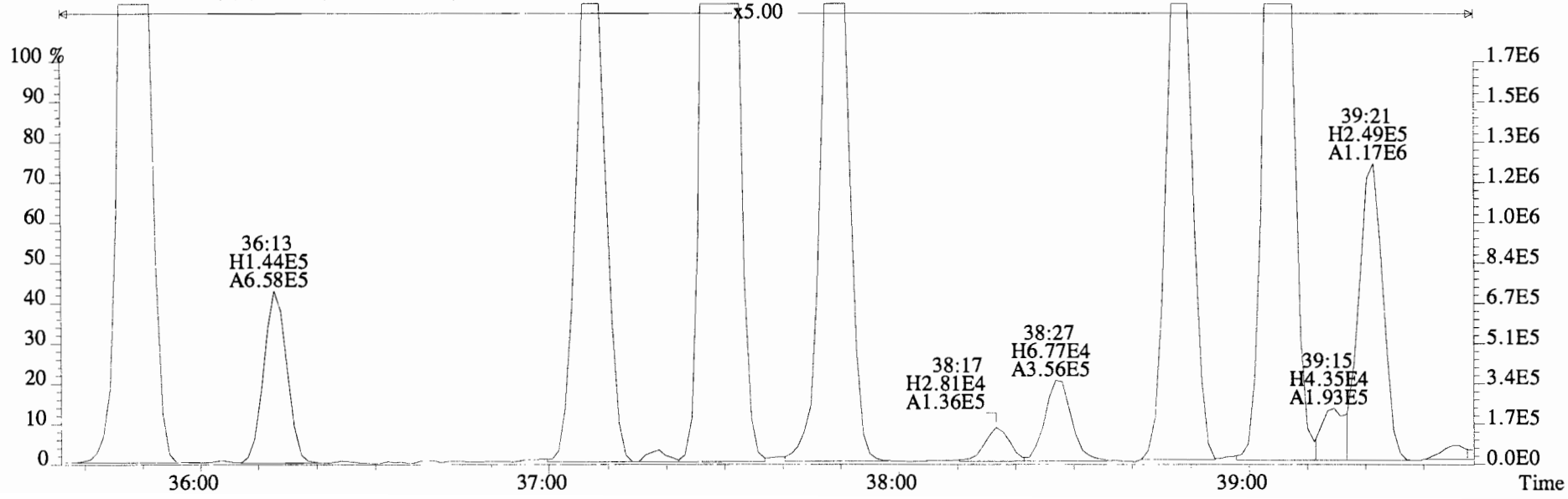
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2664.0,0.00%,F,F)



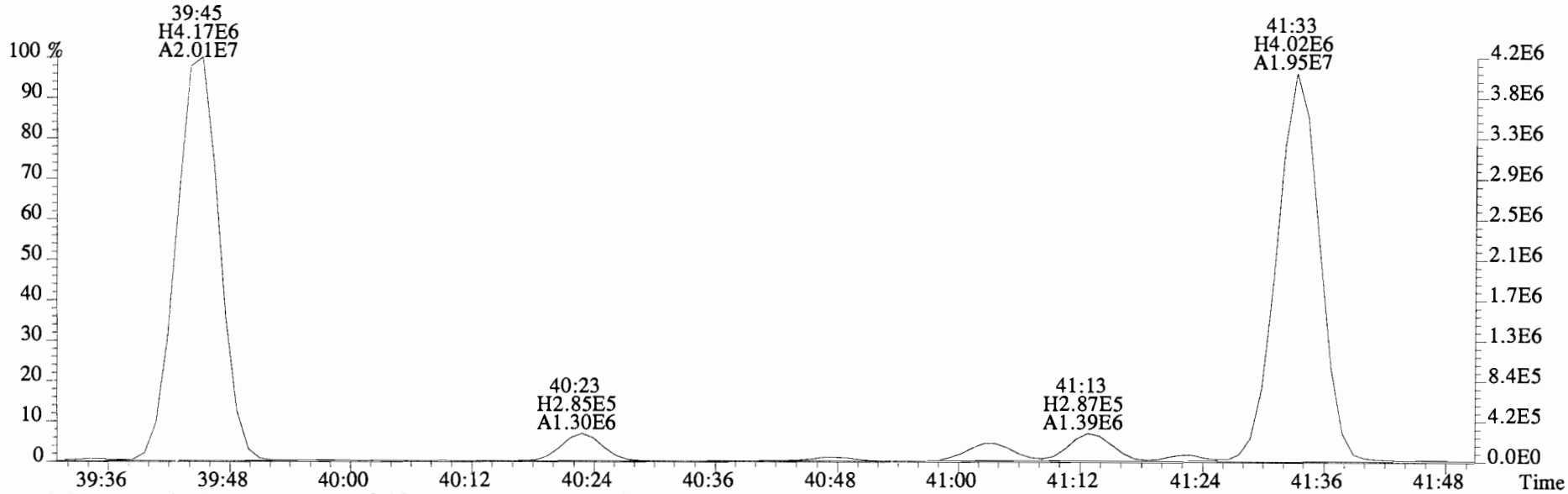
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1932.0,0.00%,F,F)



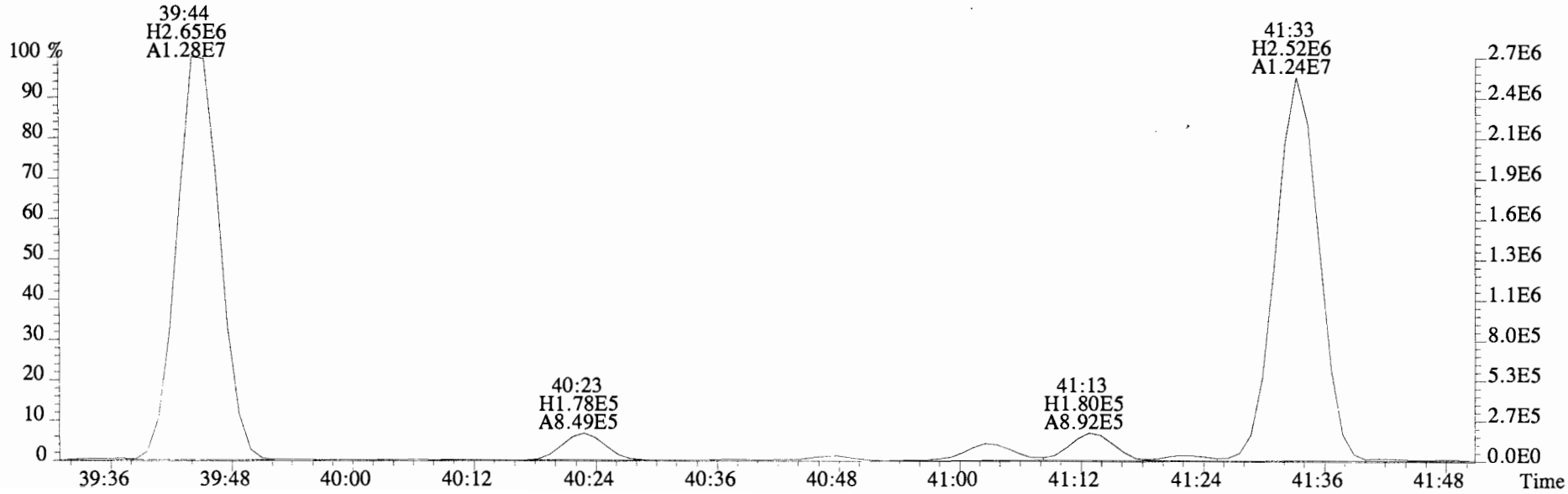
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2664.0,0.00%,F,F)



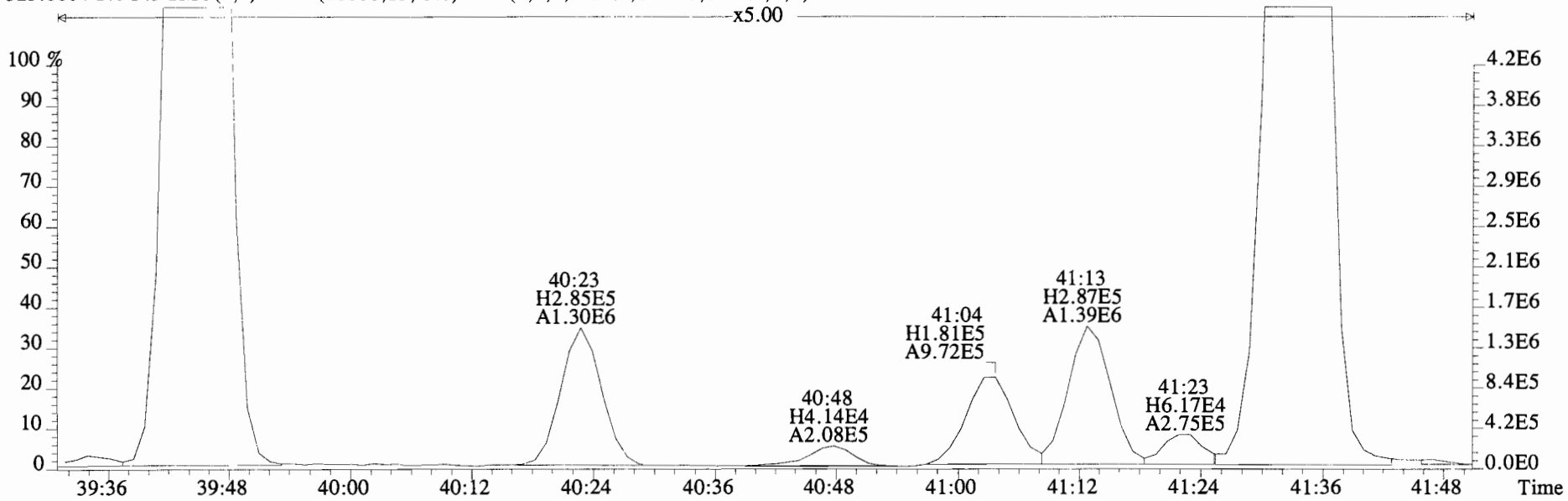
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1932.0,0.00%,F,F)



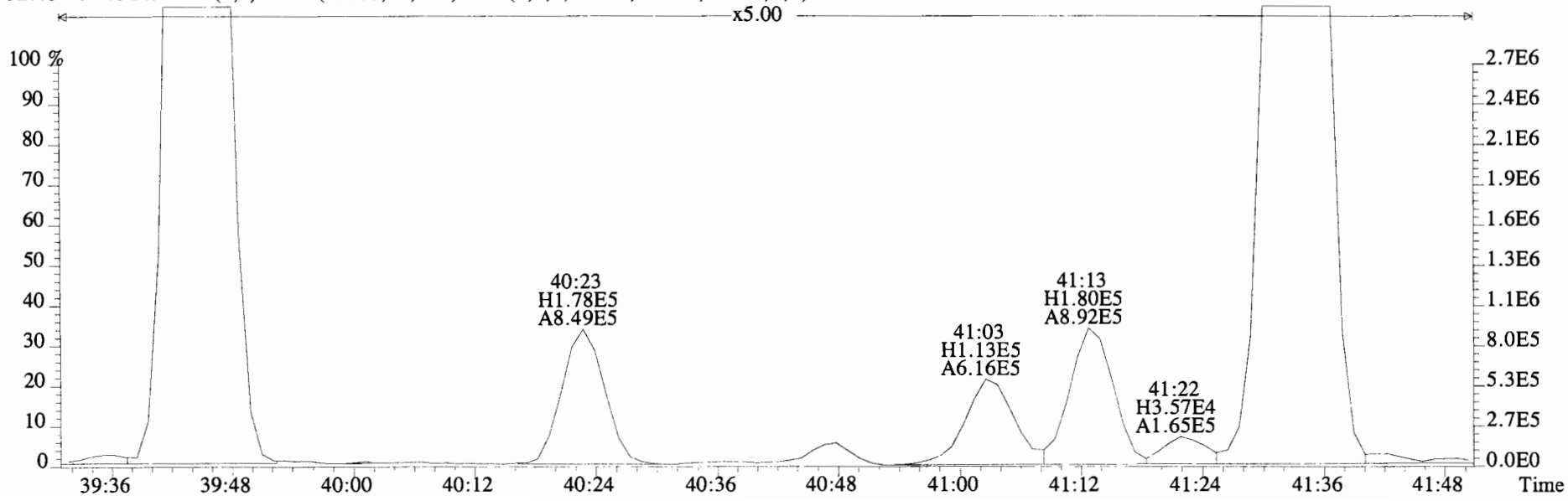
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2664.0,0.00%,F,F)



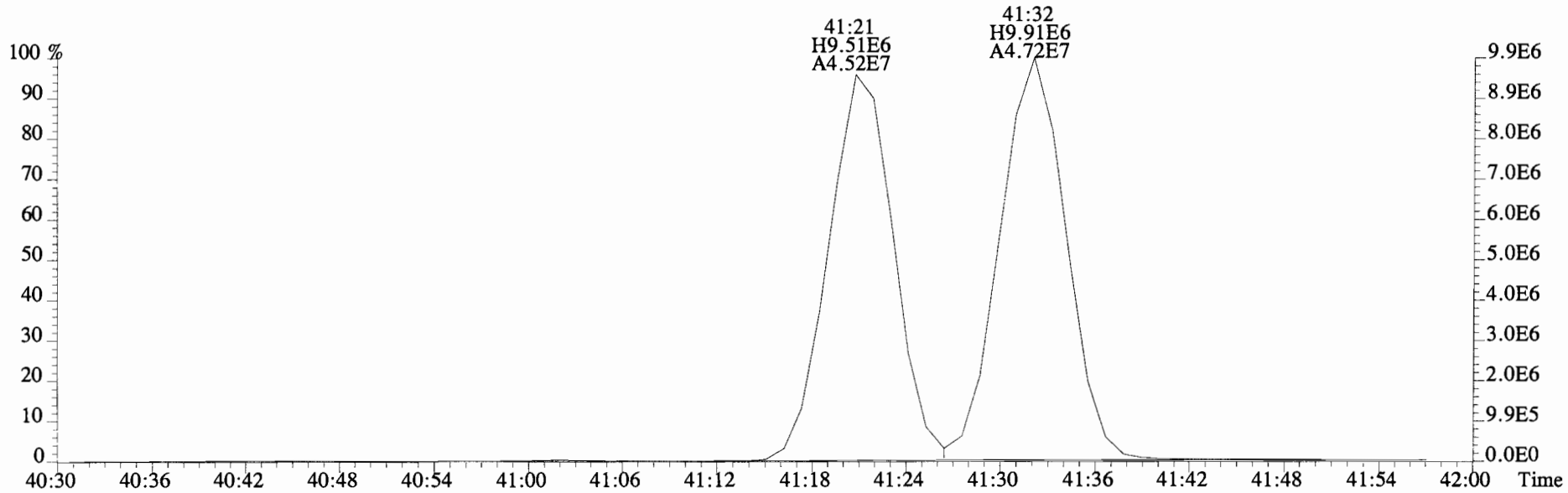
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1932.0,0.00%,F,F)



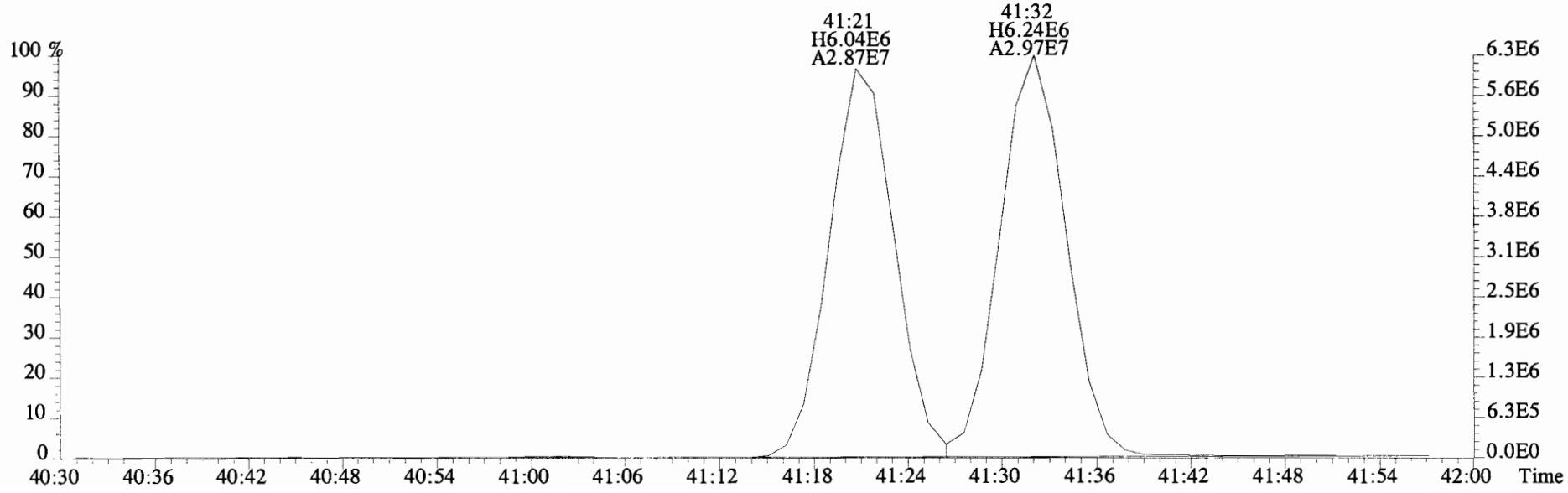
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2664.0,0.00%,F,F)



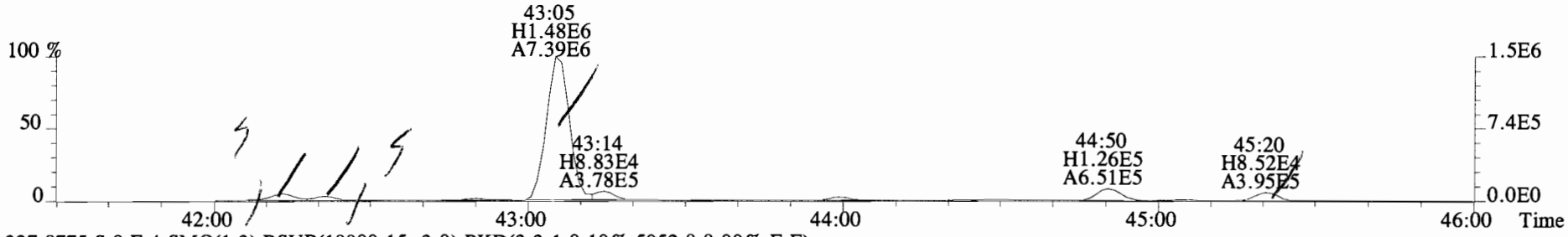
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2816.0,0.00%,F,F)



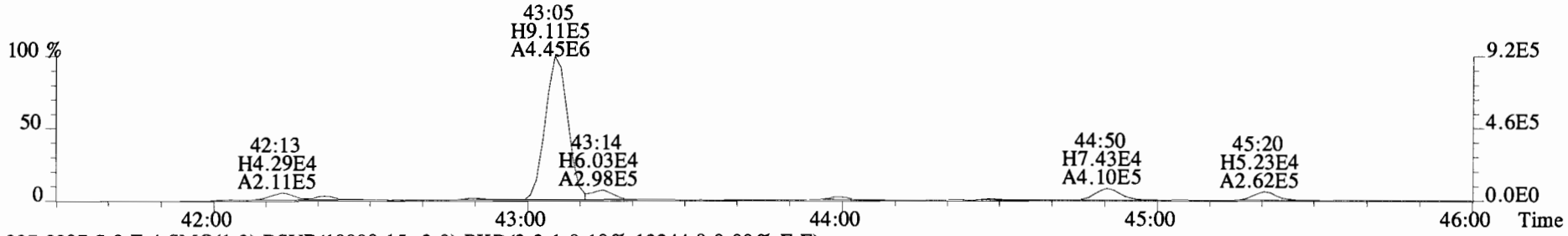
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3716.0,0.00%,F,F)



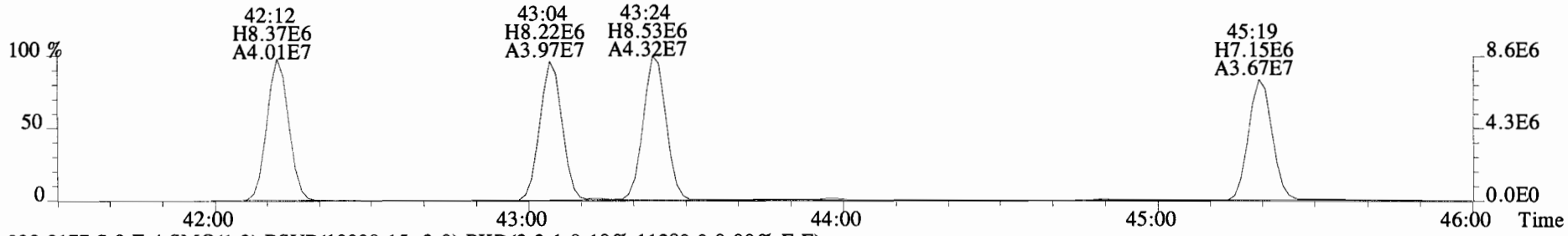
File:141021E2 #1-546 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6020.0,0.00%,F,F)



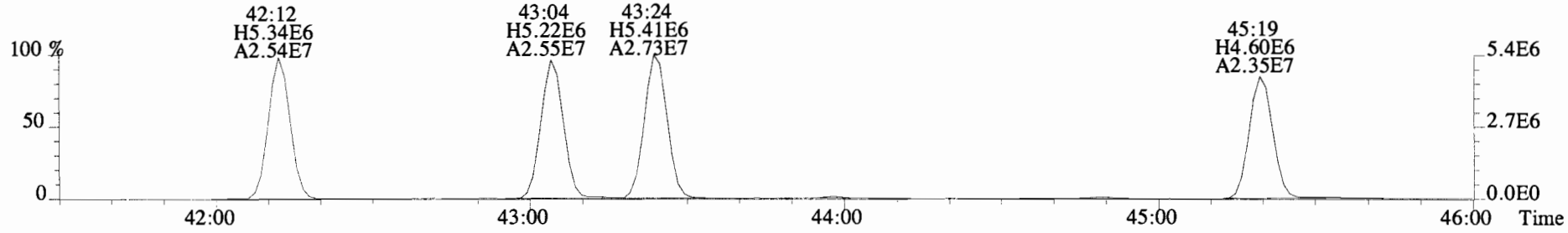
327.8775 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5052.0,0.00%,F,F)



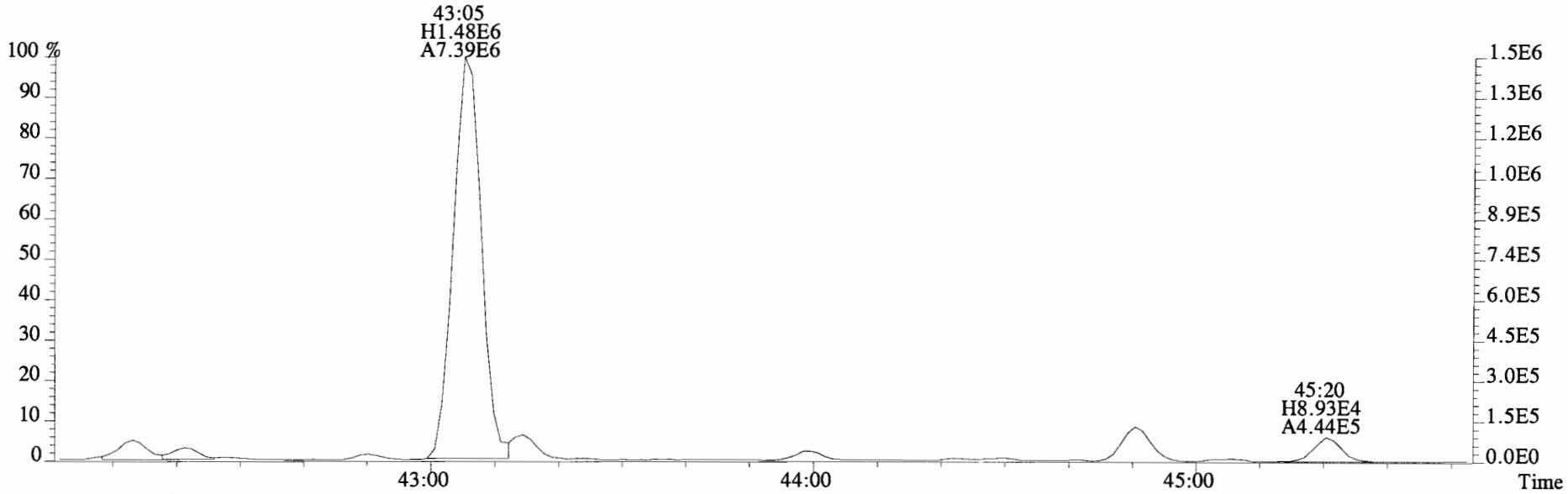
337.9207 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13244.0,0.00%,F,F)



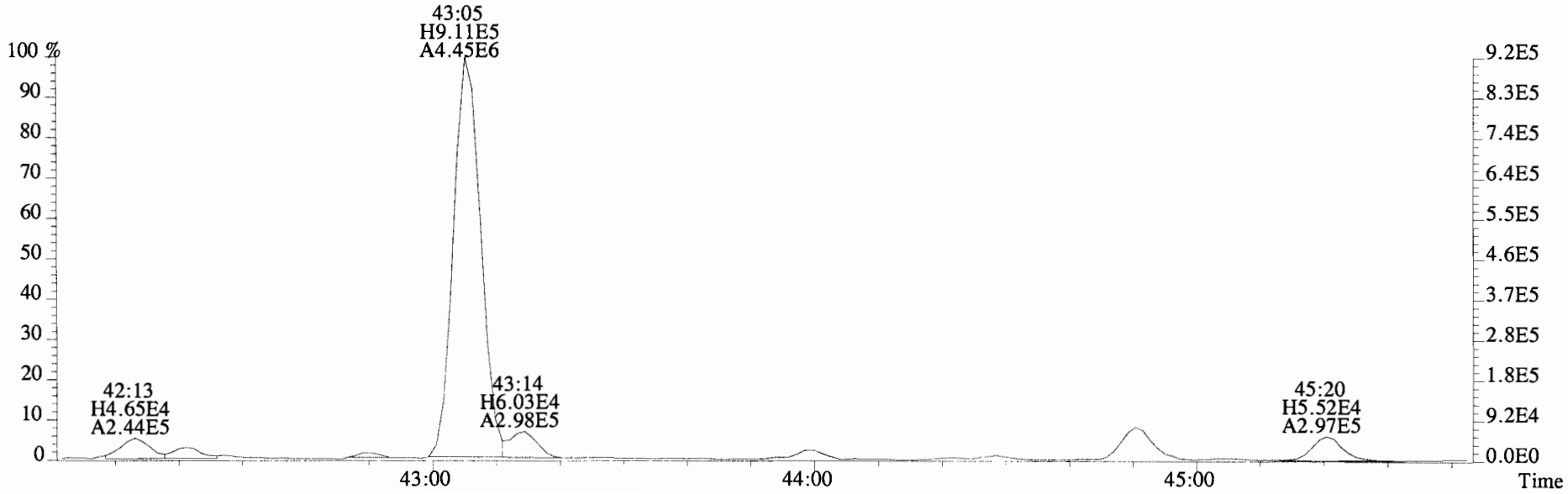
339.9177 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11280.0,0.00%,F,F)



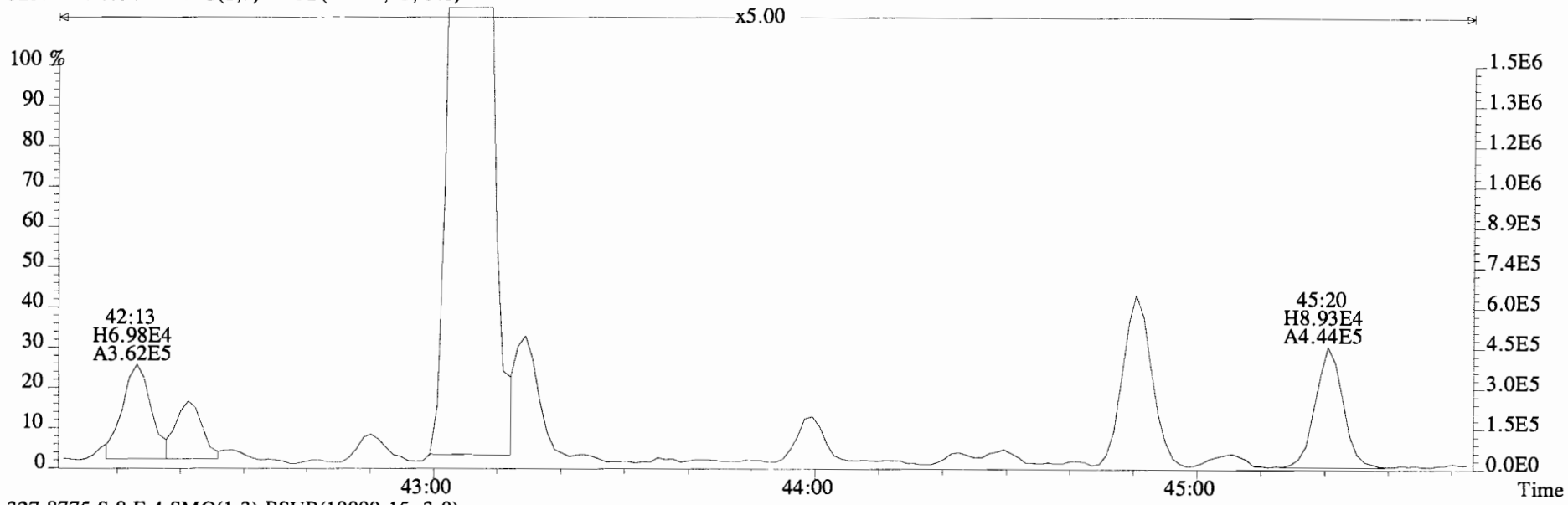
File:141021E2 #1-546 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



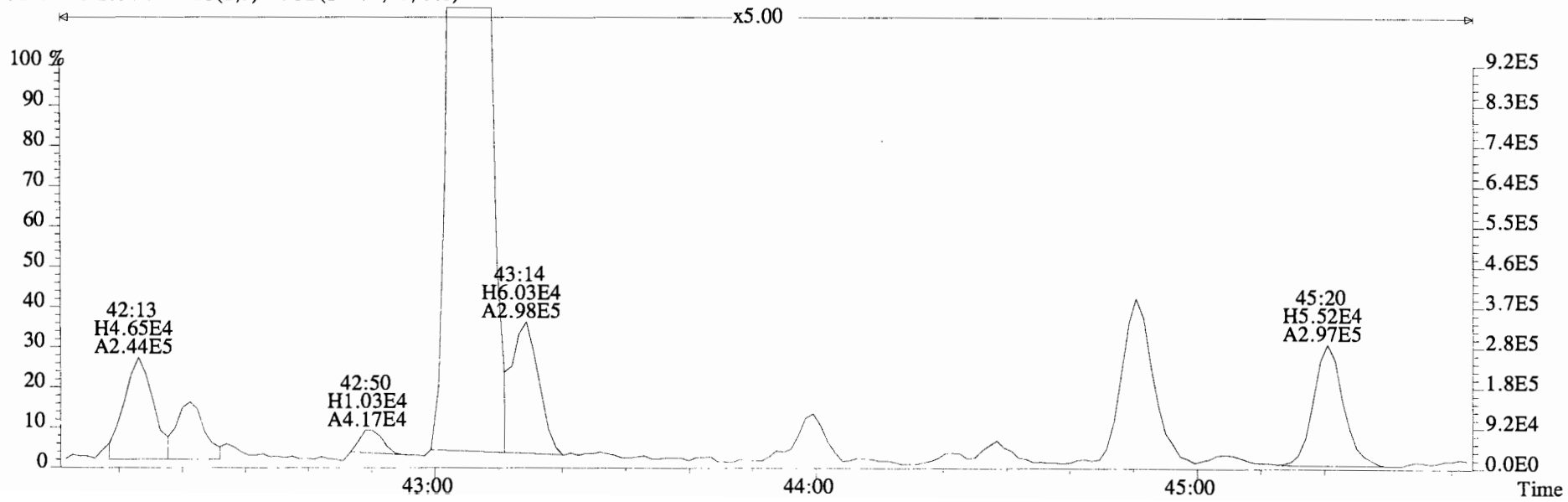
327.8775 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)

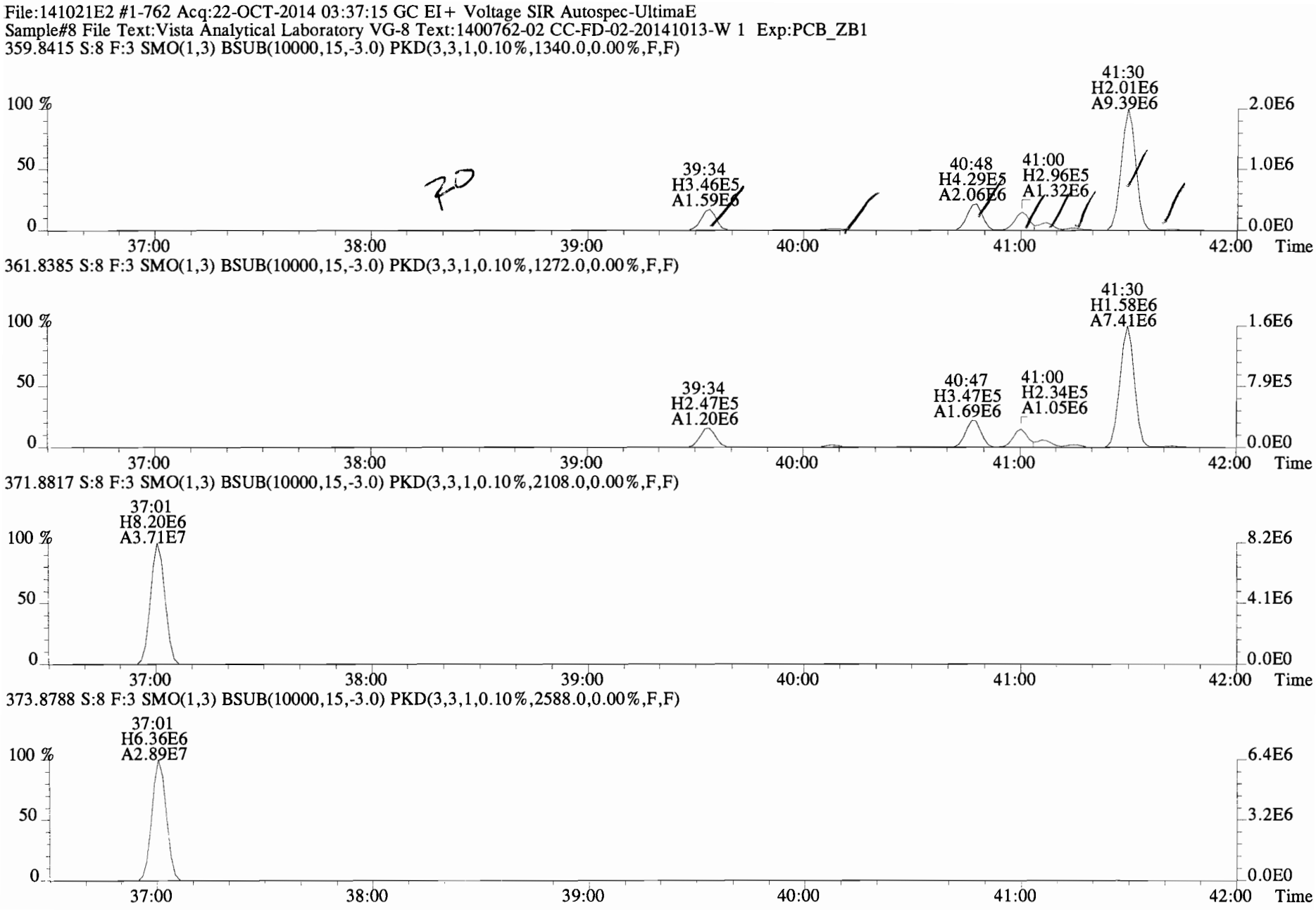


File:141021E2 #1-546 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)

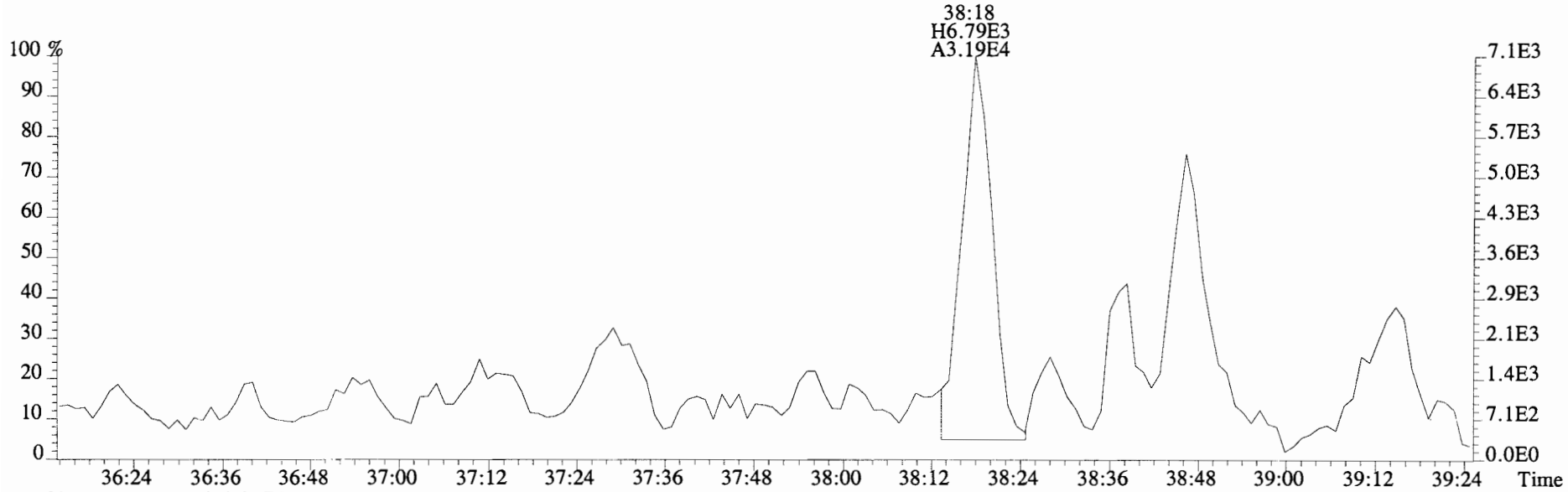


327.8775 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)

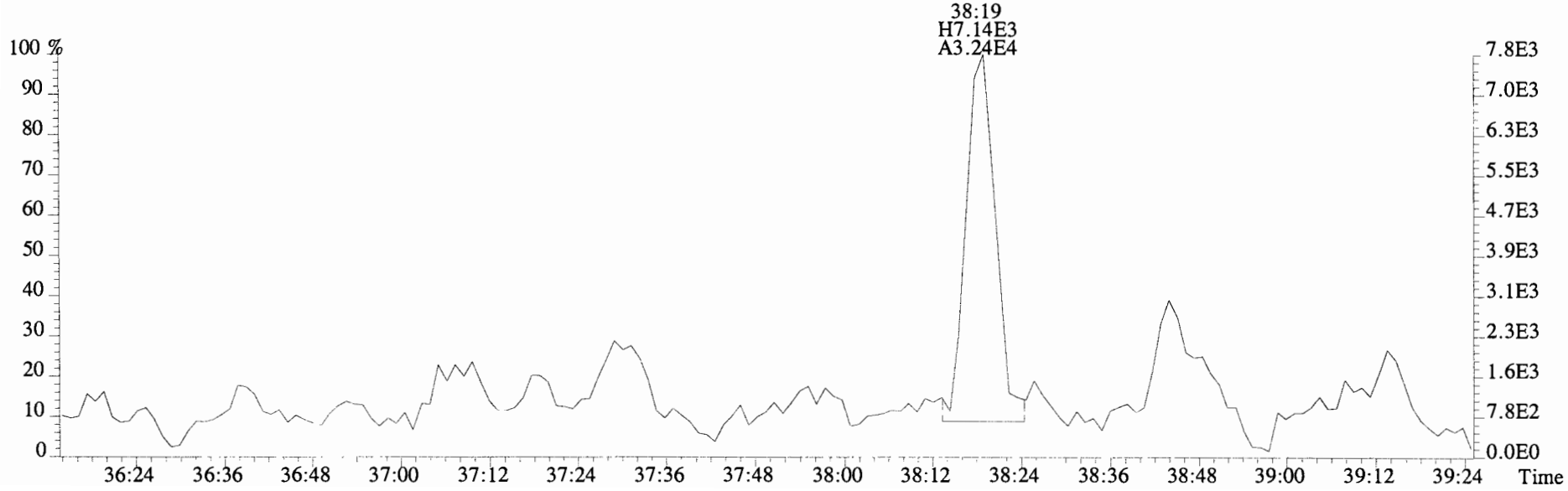



File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1340.0,0.00%,F,F)
41:30
H2.01E6
A9.39E6
39:34
H3.46E5
A1.59E6
40:48
H4.29E5
A2.06E6
41:00
H2.96E5
A1.32E6
100 %
50
0
2.0E6
1.0E6
0.0E0
37:00
38:00
39:00
40:00
41:00
42:00
Time
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1272.0,0.00%,F,F)
41:30
H1.58E6
A7.41E6
39:34
H2.47E5
A1.20E6
40:47
H3.47E5
A1.69E6
41:00
H2.34E5
A1.05E6
100 %
50
0
1.6E6
7.9E5
0.0E0
37:00
38:00
39:00
40:00
41:00
42:00
Time
371.8817 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2108.0,0.00%,F,F)
37:01
H8.20E6
A3.71E7
100 %
50
0
8.2E6
4.1E6
0.0E0
37:00
38:00
39:00
40:00
41:00
42:00
Time
373.8788 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2588.0,0.00%,F,F)
37:01
H6.36E6
A2.89E7
100 %
50
0
6.4E6
3.2E6
0.0E0
37:00
38:00
39:00
40:00
41:00
42:00
Time

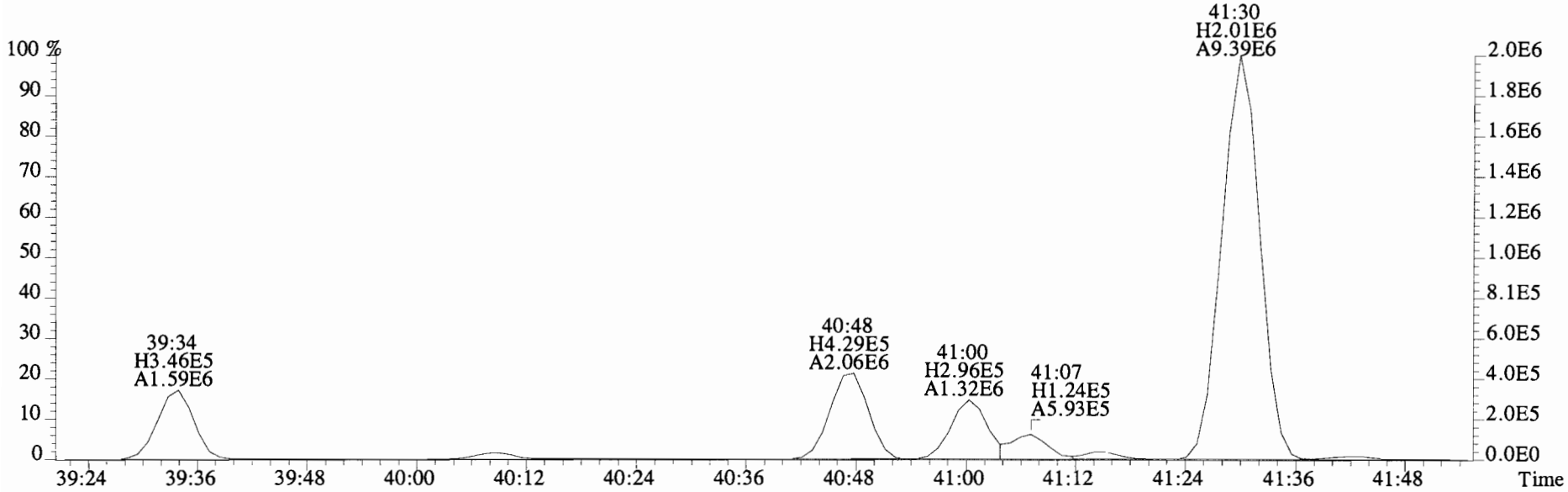
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



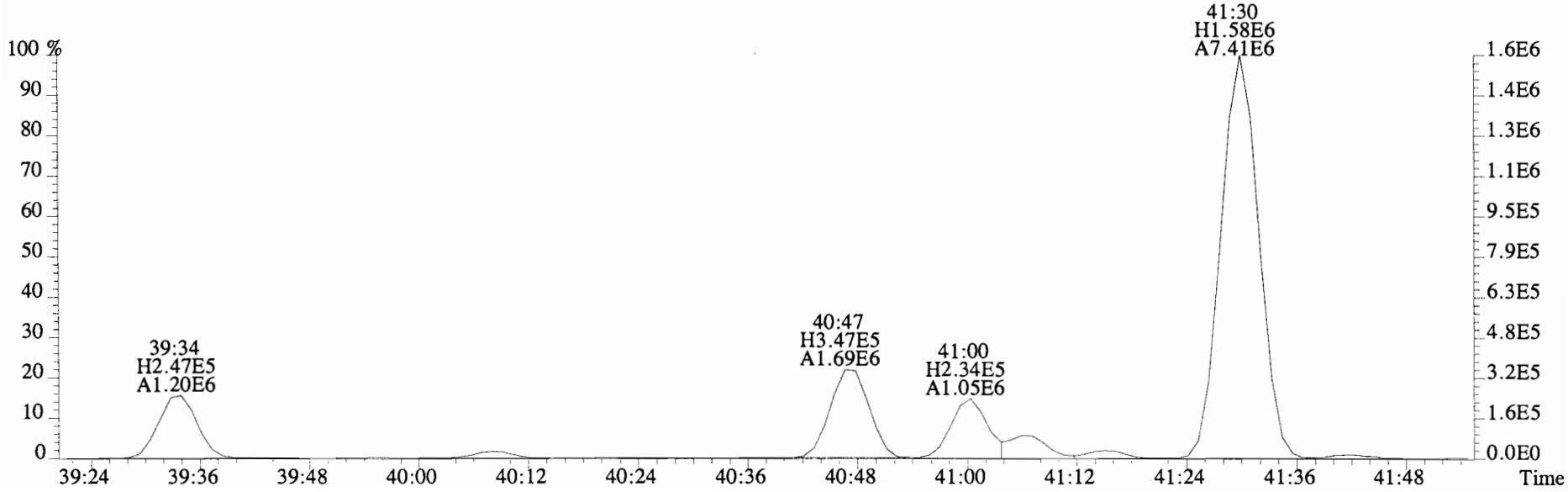
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



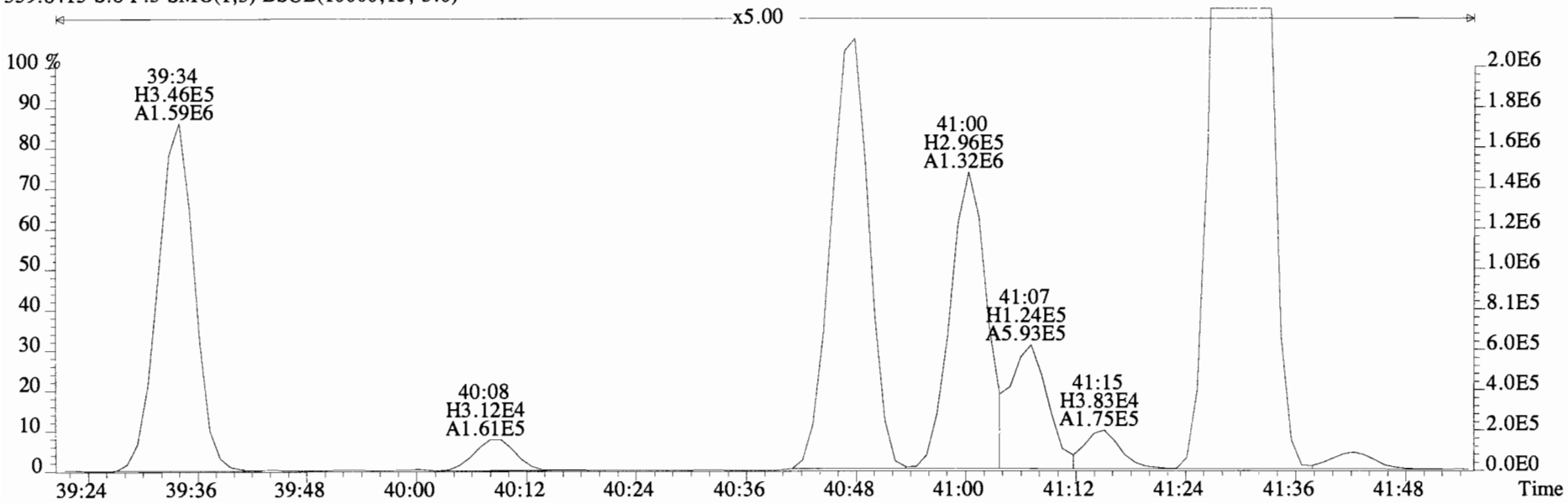
File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



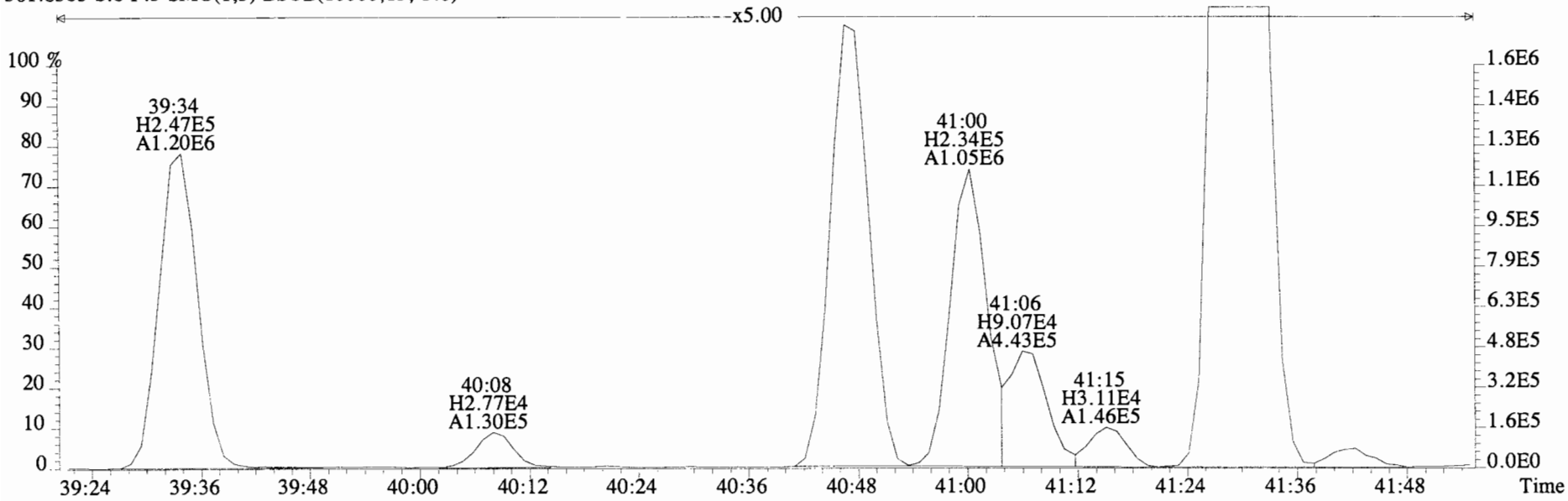
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)

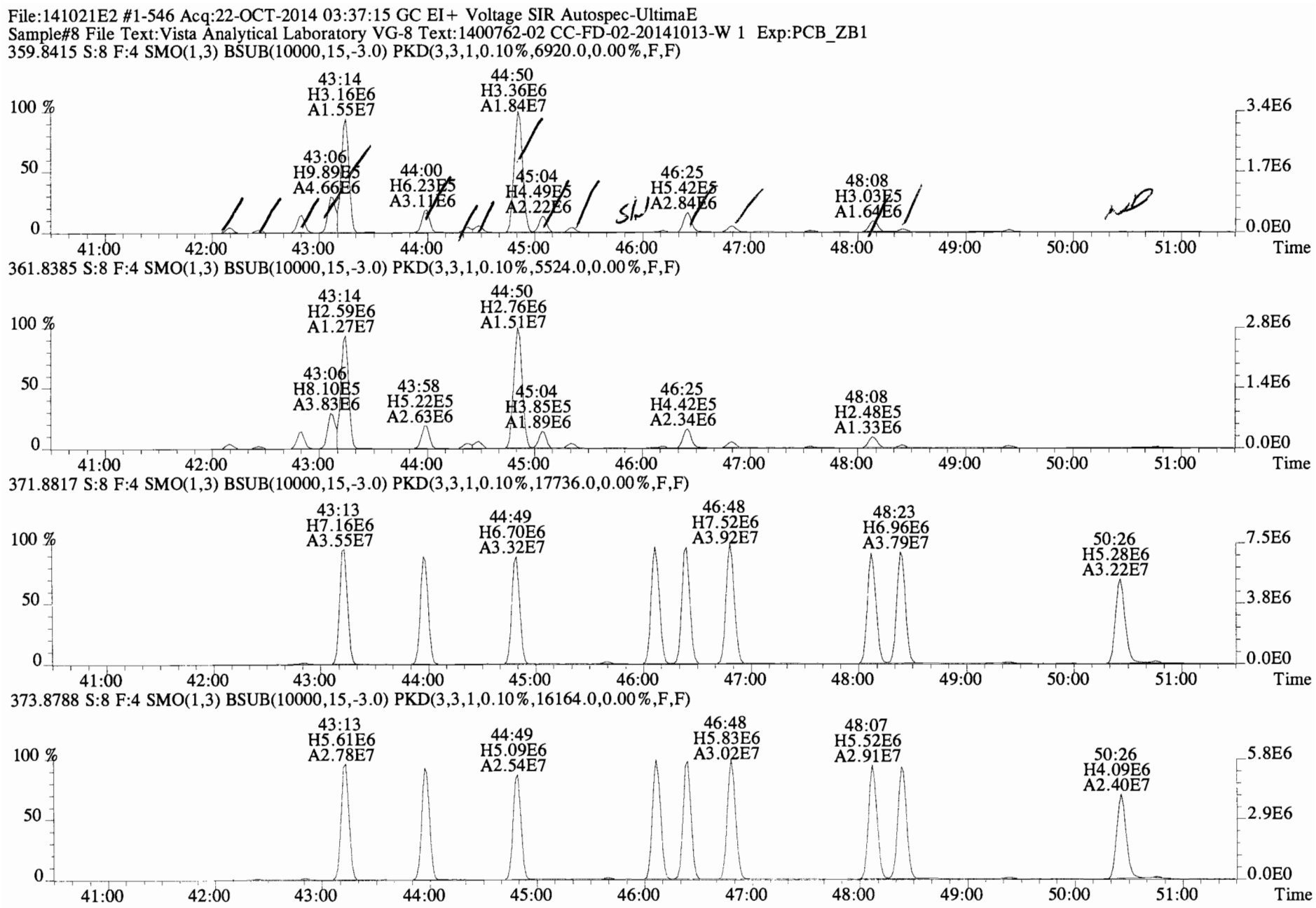


File:141021E2 #1-762 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)

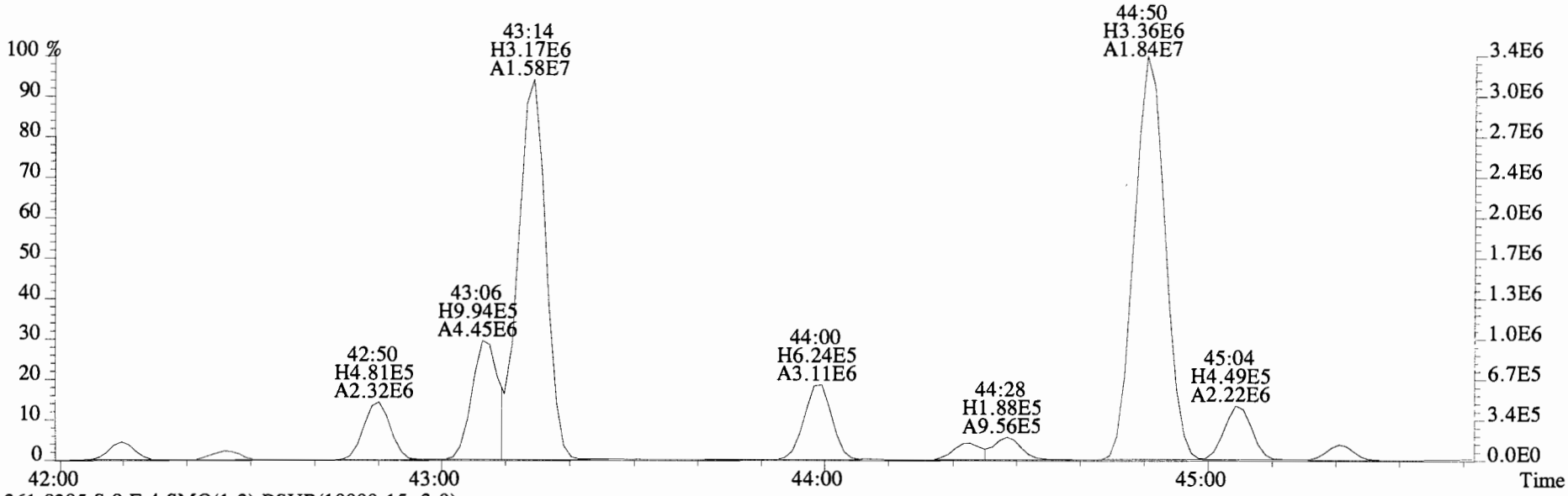


361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)

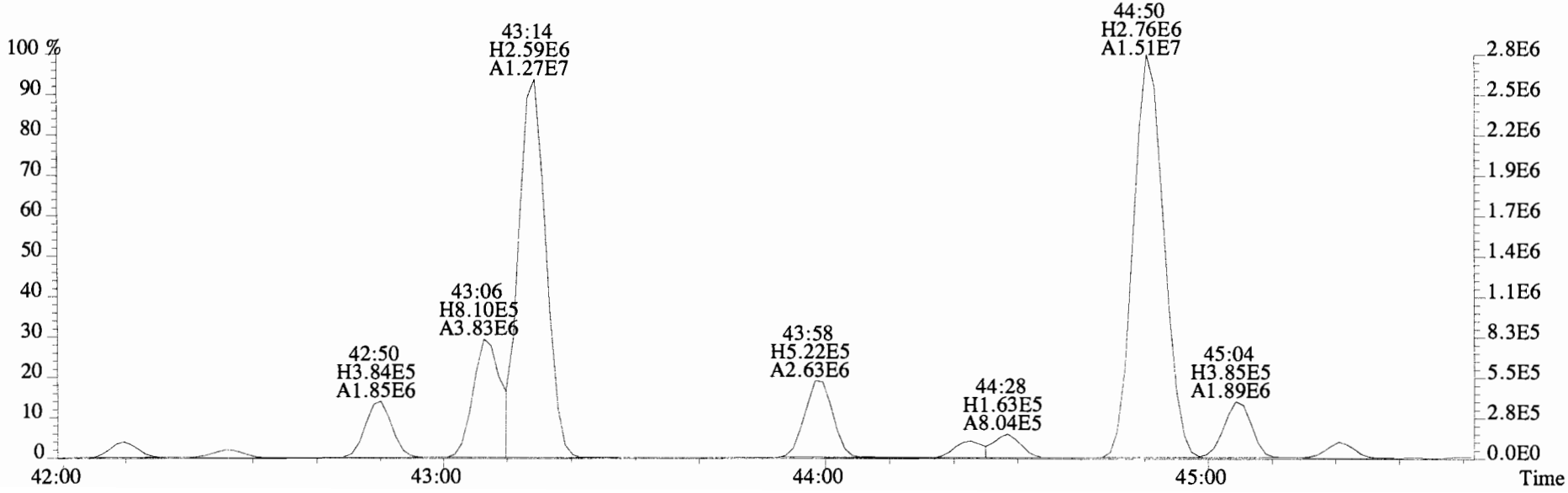


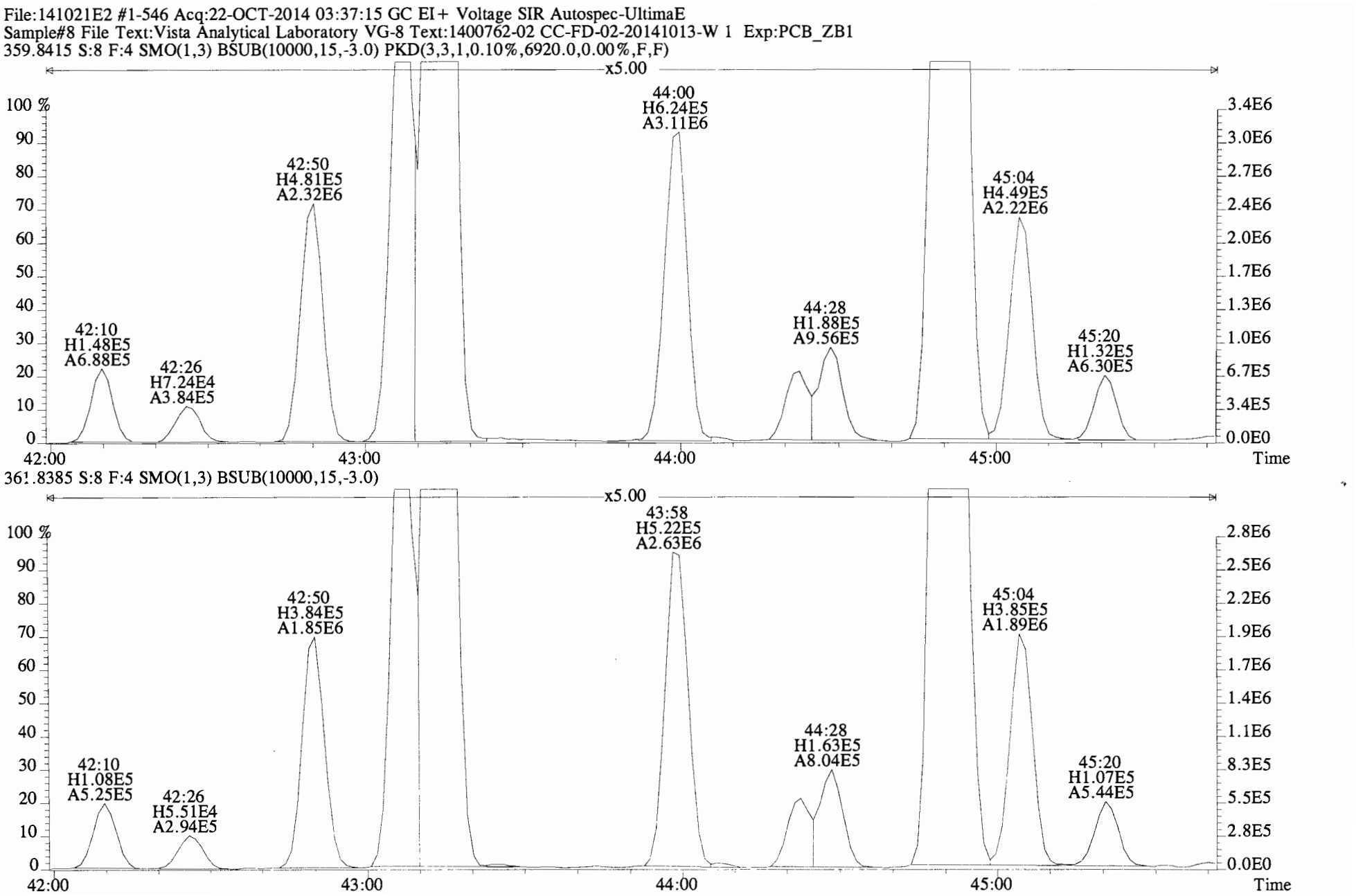

File:141021E2 #1-546 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6920.0,0.00%,F,F)
43:14 H3.16E6 A1.55E7
44:50 H3.36E6 A1.84E7
43:06 H9.89E5 A4.66E6
44:00 H6.23E5 A3.11E6
45:04 H4.49E5 A2.22E6
46:25 H5.42E5 A2.84E6
48:08 H3.03E5 A1.64E6
100 %
50
0
3.4E6
1.7E6
0.0E0
41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 51:00 Time
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5524.0,0.00%,F,F)
43:14 H2.59E6 A1.27E7
44:50 H2.76E6 A1.51E7
43:06 H8.10E5 A3.83E6
43:58 H5.22E5 A2.63E6
45:04 H3.85E5 A1.89E6
46:25 H4.42E5 A2.34E6
48:08 H2.48E5 A1.33E6
100 %
50
0
2.8E6
1.4E6
0.0E0
41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 51:00 Time
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17736.0,0.00%,F,F)
43:13 H7.16E6 A3.55E7
44:49 H6.70E6 A3.32E7
46:48 H7.52E6 A3.92E7
48:23 H6.96E6 A3.79E7
50:26 H5.28E6 A3.22E7
100 %
50
0
7.5E6
3.8E6
0.0E0
41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 51:00 Time
373.8788 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16164.0,0.00%,F,F)
43:13 H5.61E6 A2.78E7
44:49 H5.09E6 A2.54E7
46:48 H5.83E6 A3.02E7
48:07 H5.52E6 A2.91E7
50:26 H4.09E6 A2.40E7
100 %
50
0
5.8E6
2.9E6
0.0E0
41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 51:00 Time

File:141021E2 #1-546 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6920.0,0.00%,F,F)

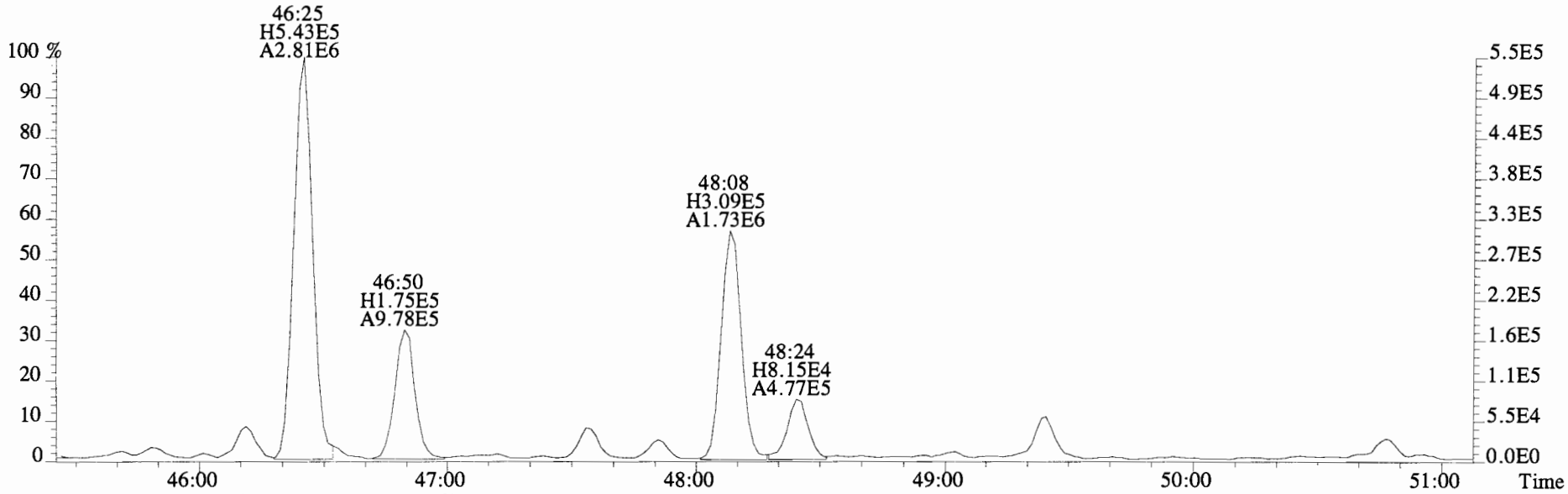


361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)

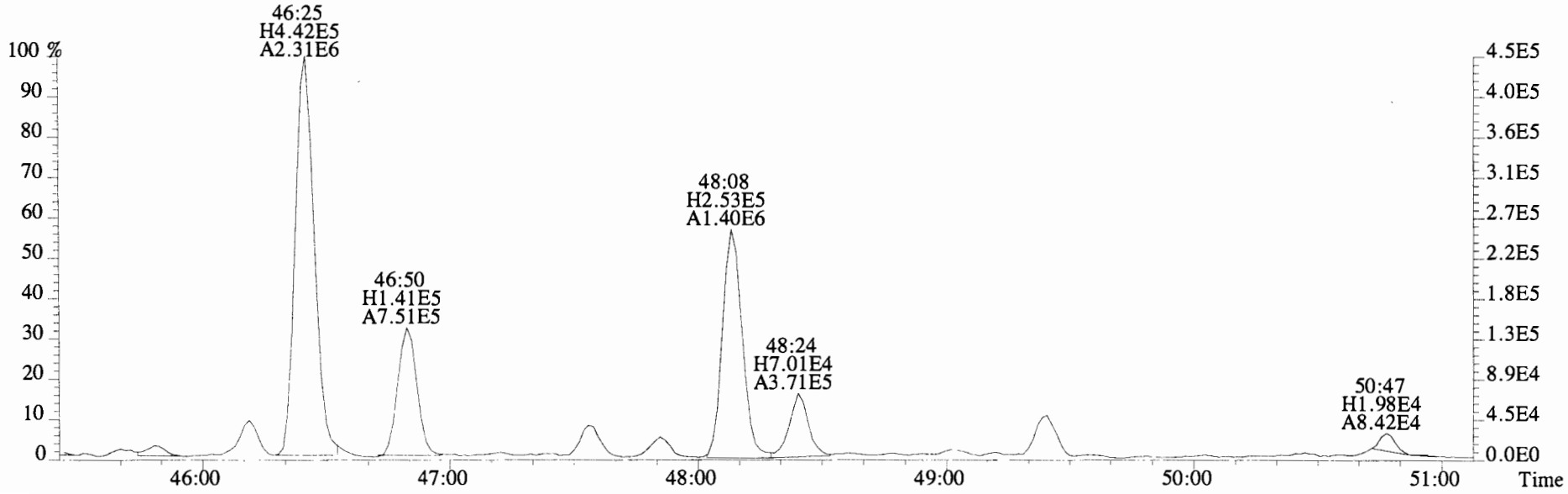



File:141021E2 #1-546 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6920.0,0.00%,F,F)
x5.00
42:10 H1.48E5 A6.88E5
42:26 H7.24E4 A3.84E5
42:50 H4.81E5 A2.32E6
44:00 H6.24E5 A3.11E6
44:28 H1.88E5 A9.56E5
45:04 H4.49E5 A2.22E6
45:20 H1.32E5 A6.30E5
Time
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)
x5.00
42:10 H1.08E5 A5.25E5
42:26 H5.51E4 A2.94E5
42:50 H3.84E5 A1.85E6
43:58 H5.22E5 A2.63E6
44:28 H1.63E5 A8.04E5
45:04 H3.85E5 A1.89E6
45:20 H1.07E5 A5.44E5
Time

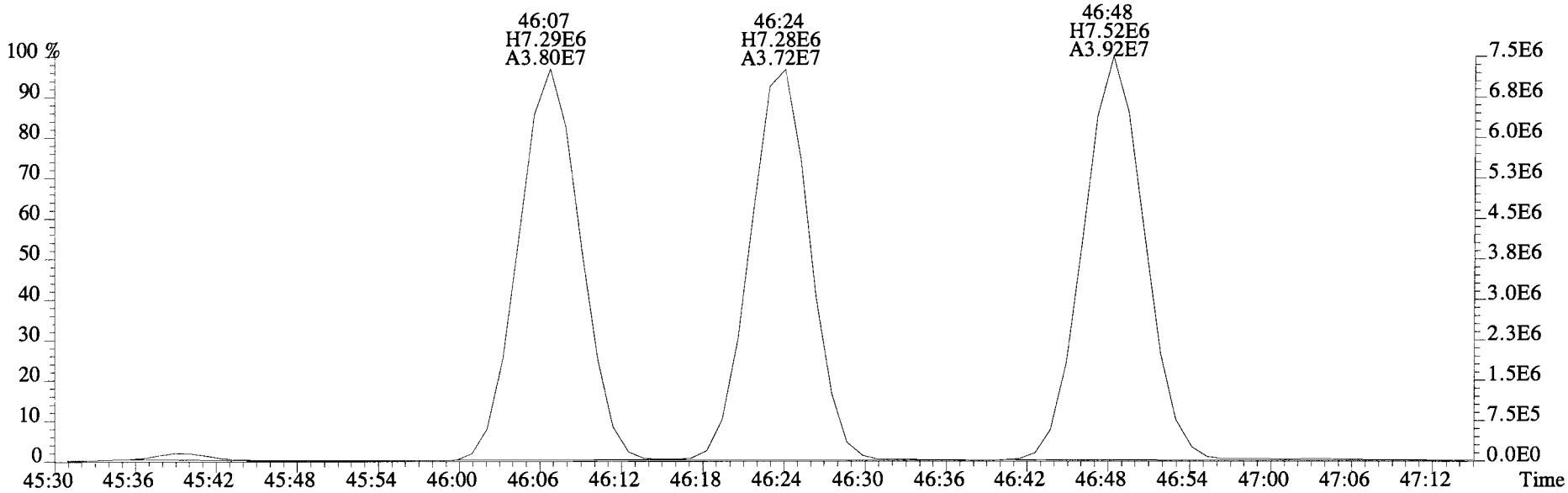
File:141021E2 #1-546 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6920.0,0.00%,F,F)



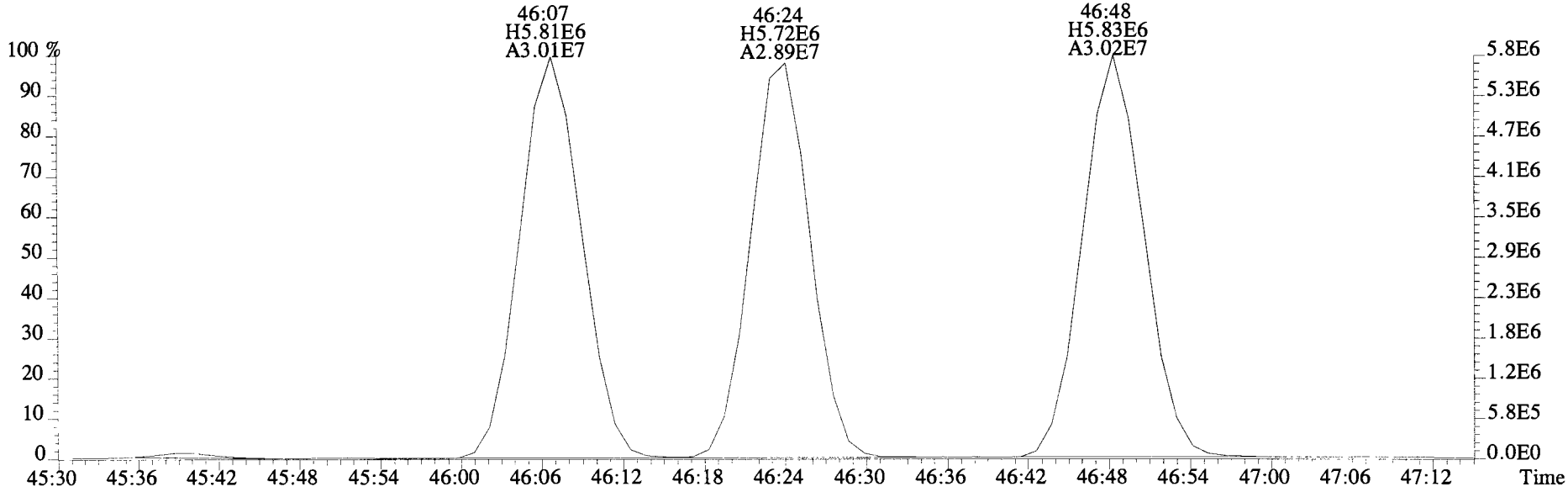
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



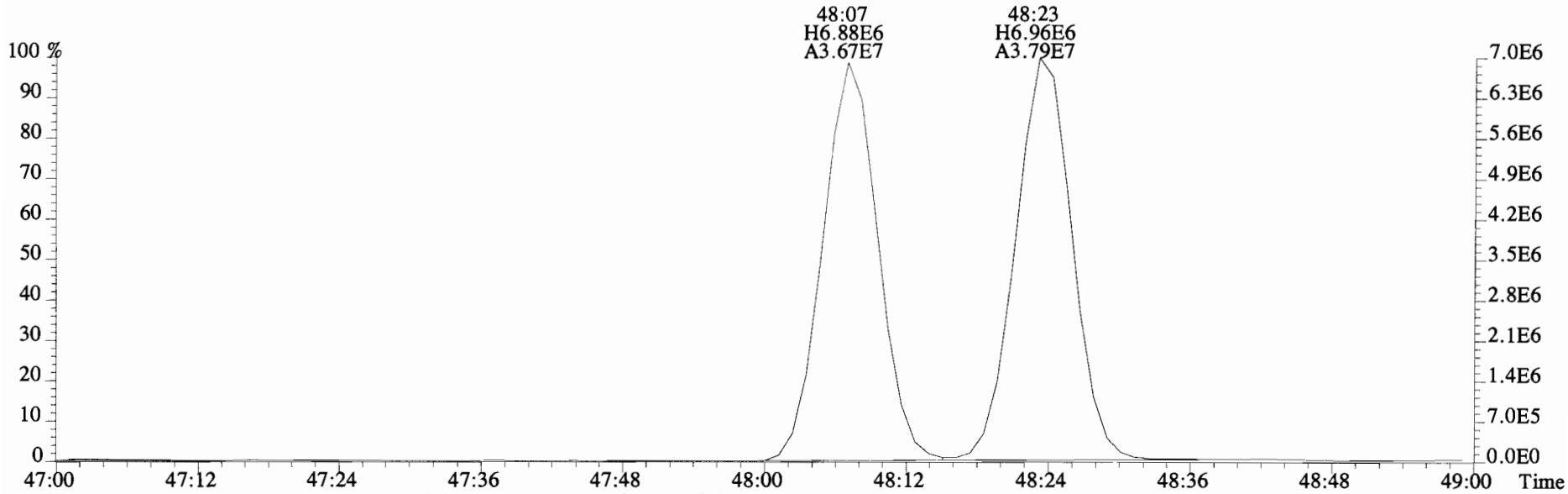
File:141021E2 #1-546 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17736.0,0.00%,F,F)



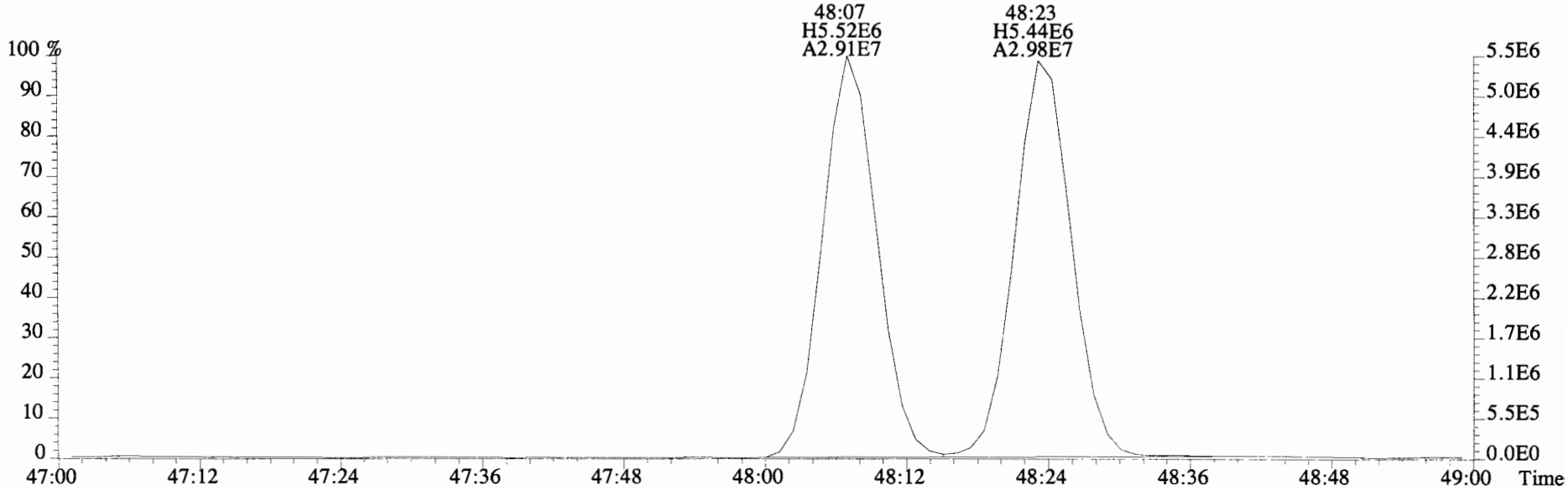
373.8788 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16164.0,0.00%,F,F)

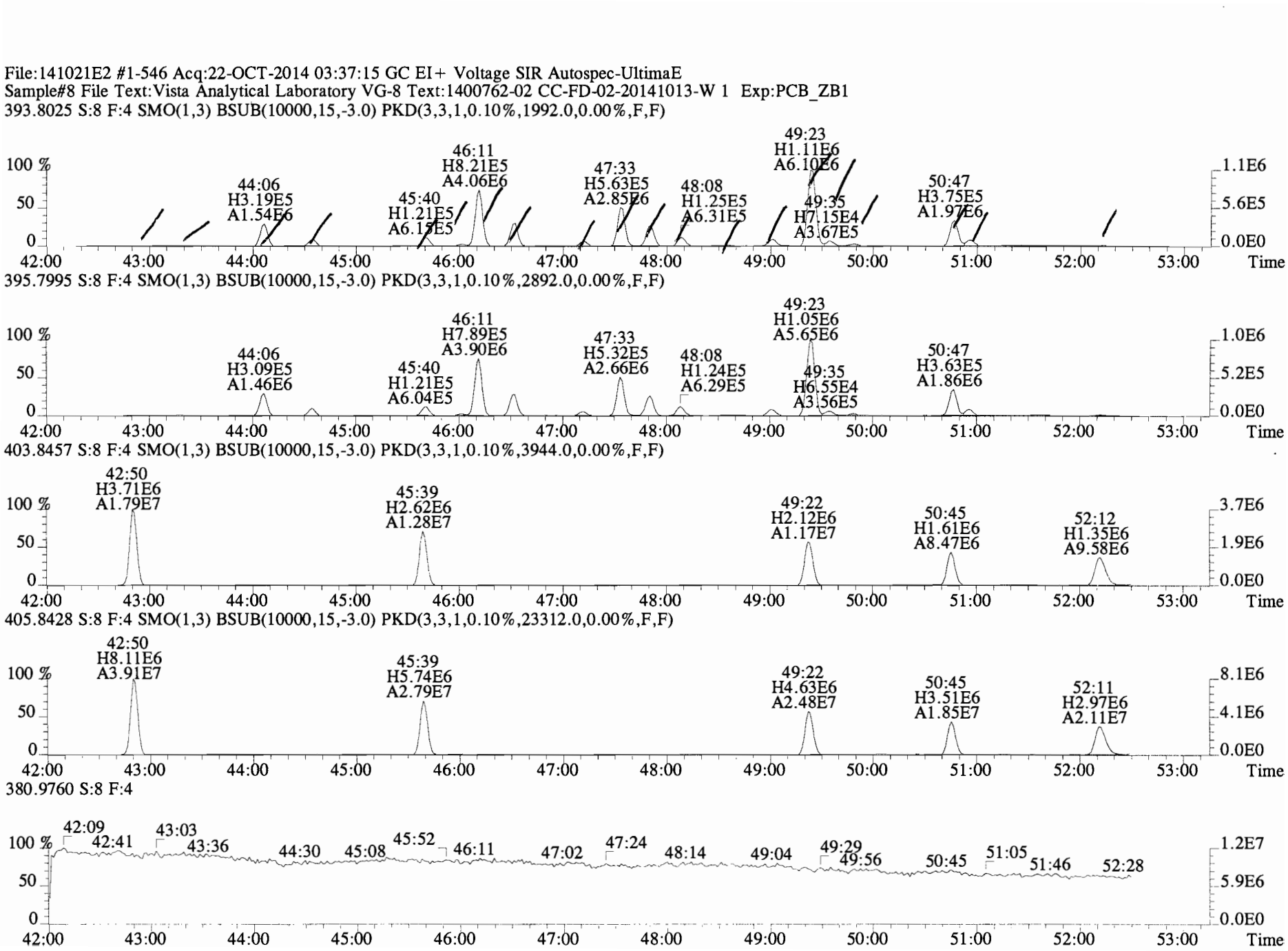


File:141021E2 #1-546 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17736.0,0.00%,F,F)

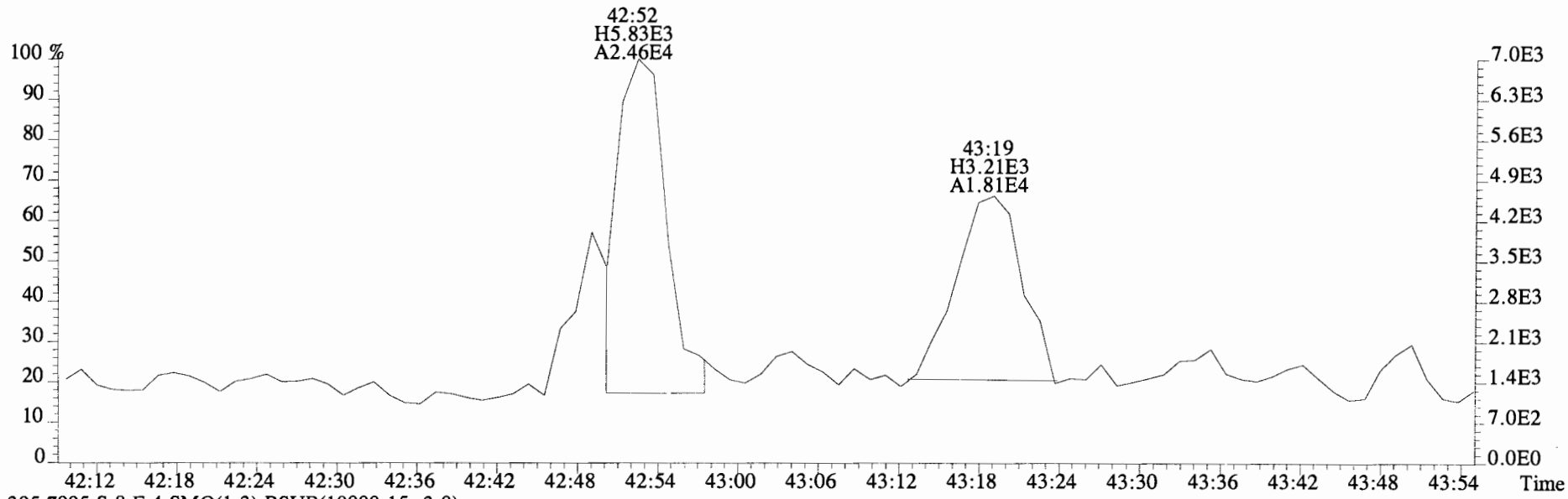


373.8788 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16164.0,0.00%,F,F)

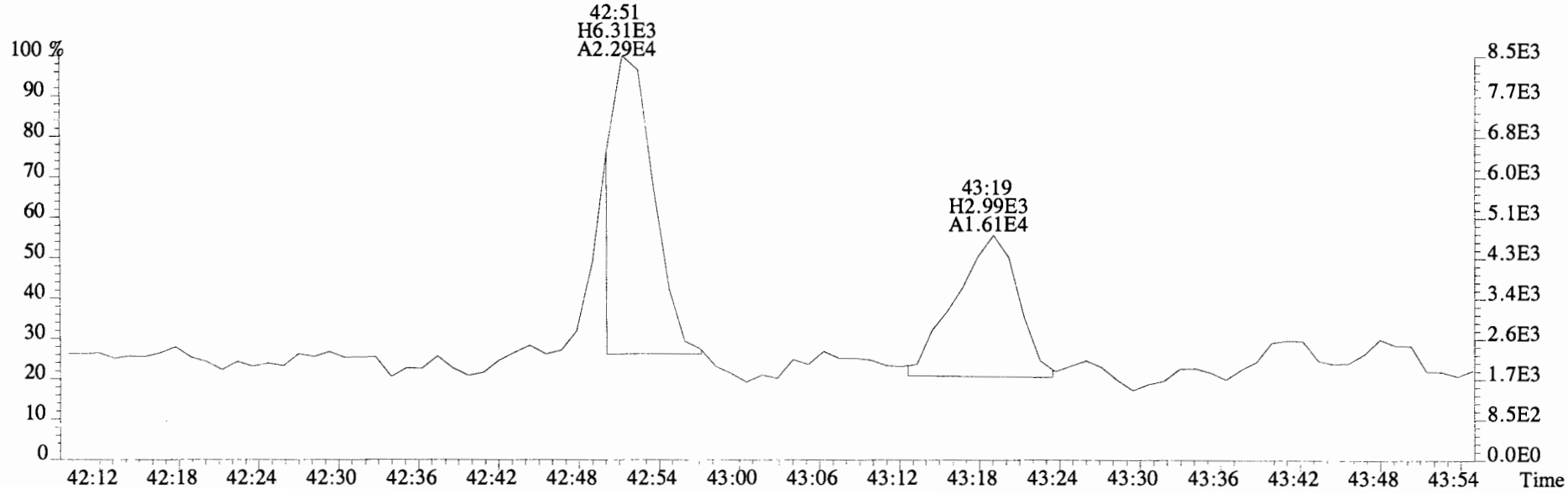



File:141021E2 #1-546 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1992.0,0.00%,F,F)
44:06 H3.19E5 A1.54E6
45:40 H1.21E5 A6.15E5
46:11 H8.21E5 A4.06E6
47:33 H5.63E5 A2.85E6
48:08 H1.25E5 A6.31E5
49:23 H1.11E6 A6.10E6
49:35 H7.15E4 A3.67E5
50:47 H3.75E5 A1.97E6
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2892.0,0.00%,F,F)
44:06 H3.09E5 A1.46E6
45:40 H1.21E5 A6.04E5
46:11 H7.89E5 A3.90E6
47:33 H5.32E5 A2.66E6
48:08 H1.24E5 A6.29E5
49:23 H1.05E6 A5.65E6
49:35 H6.55E4 A3.56E5
50:47 H3.63E5 A1.86E6
403.8457 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3944.0,0.00%,F,F)
42:50 H3.71E6 A1.79E7
45:39 H2.62E6 A1.28E7
49:22 H2.12E6 A1.17E7
50:45 H1.61E6 A8.47E6
52:12 H1.35E6 A9.58E6
405.8428 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,23312.0,0.00%,F,F)
42:50 H8.11E6 A3.91E7
45:39 H5.74E6 A2.79E7
49:22 H4.63E6 A2.48E7
50:45 H3.51E6 A1.85E7
52:11 H2.97E6 A2.11E7
380.9760 S:8 F:4
42:09 42:41 43:03 43:36 44:30 45:08 45:52 46:11 47:02 47:24 48:14 49:04 49:29 49:56 50:45 51:05 51:46 52:28
100 %
50
0
42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 51:00 52:00 53:00 Time
1.1E6 5.6E5 0.0E0
1.0E6 5.2E5 0.0E0
3.7E6 1.9E6 0.0E0
8.1E6 4.1E6 0.0E0
1.2E7 5.9E6 0.0E0

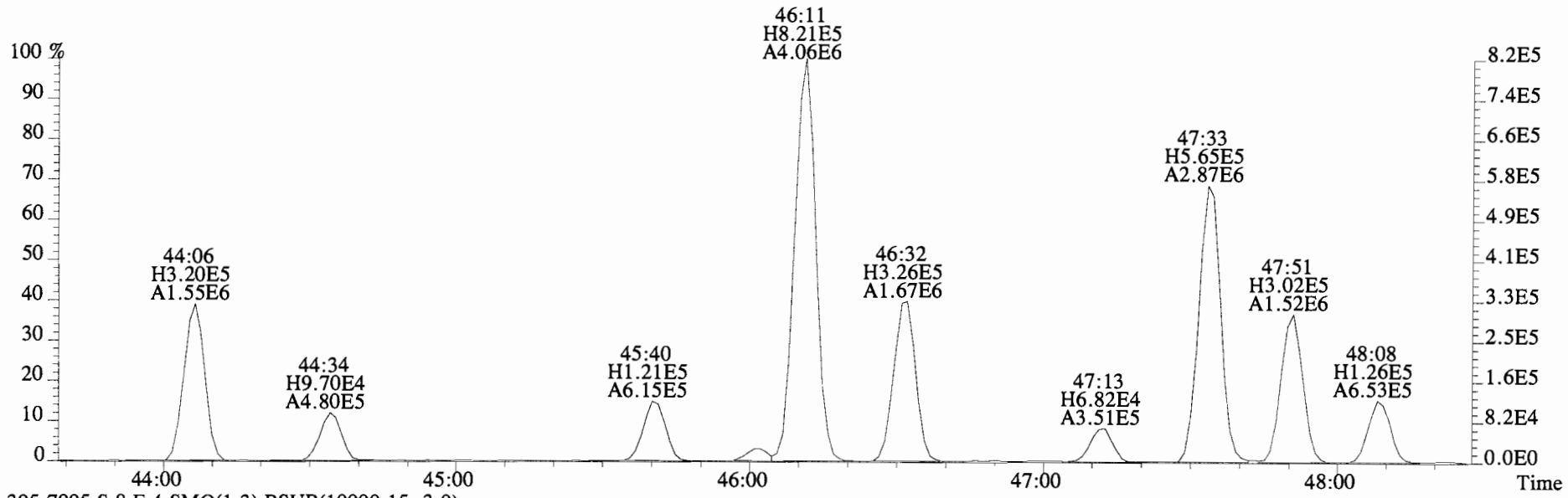
File:141021E2 #1-546 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



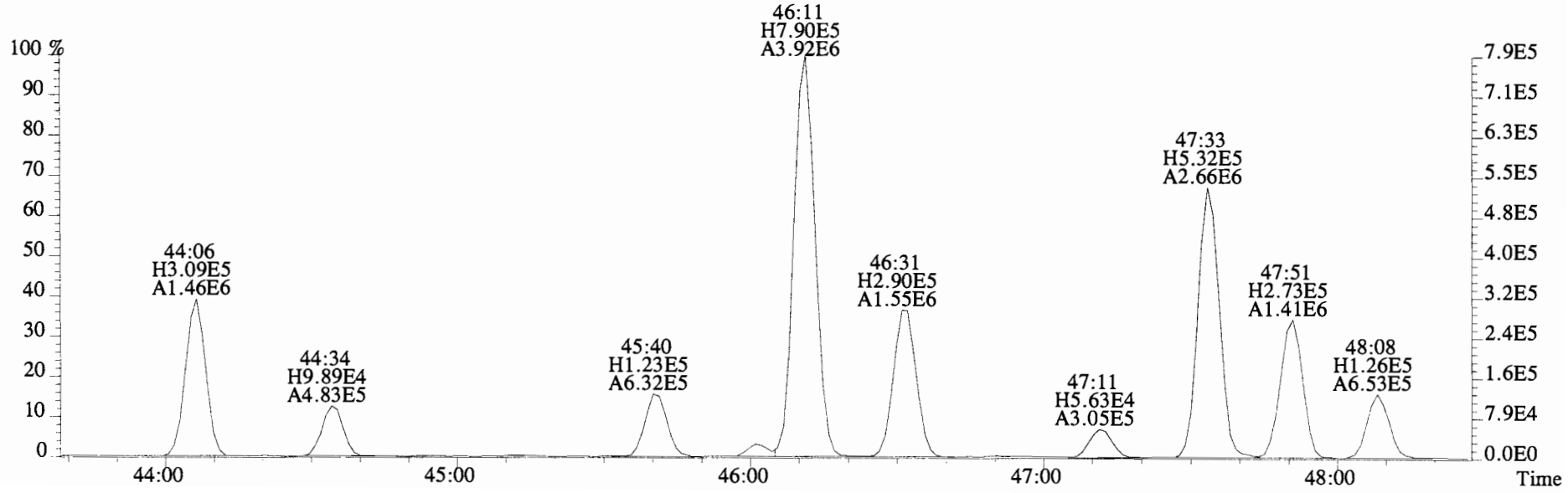
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



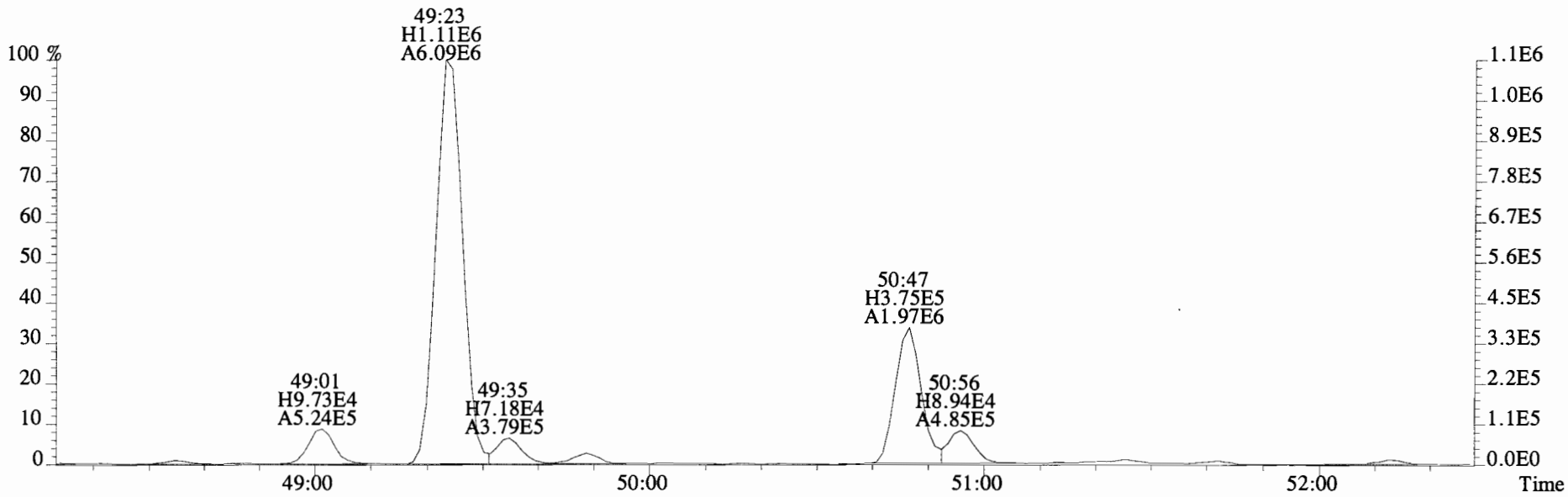
File:141021E2 #1-546 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



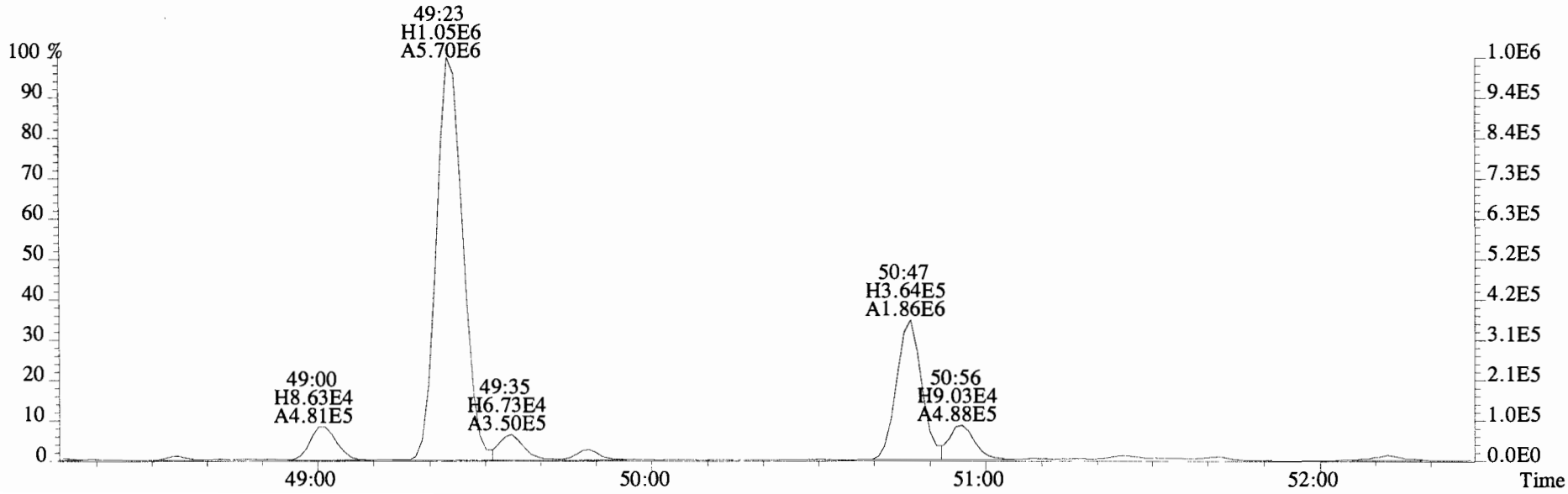
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



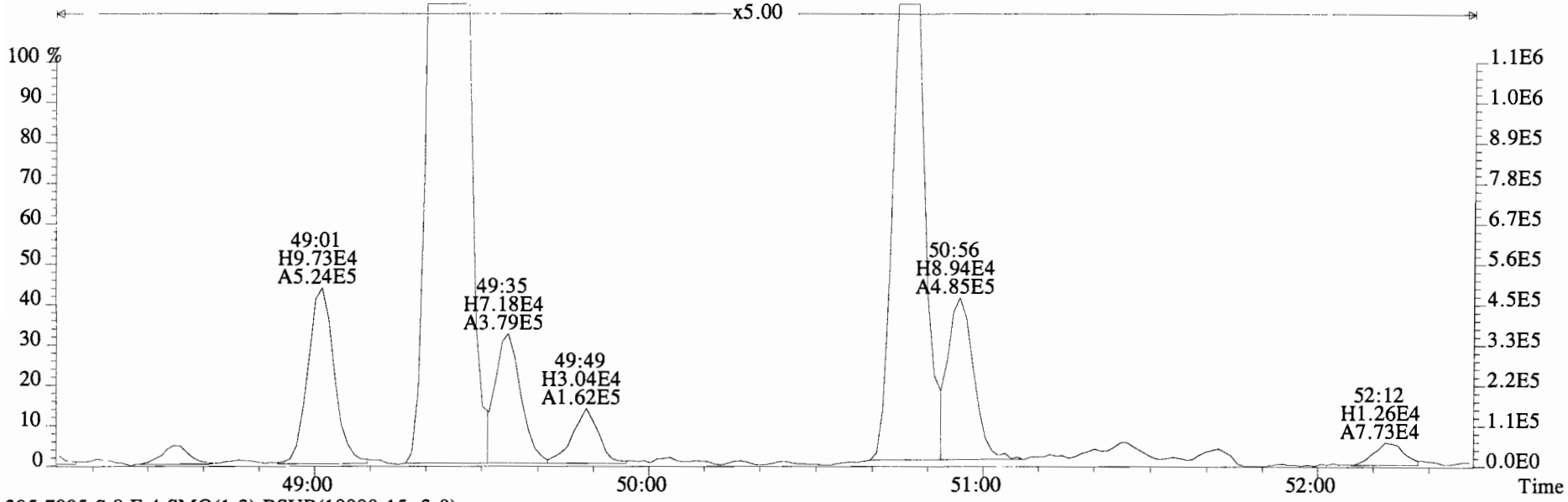
File:141021E2 #1-546 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



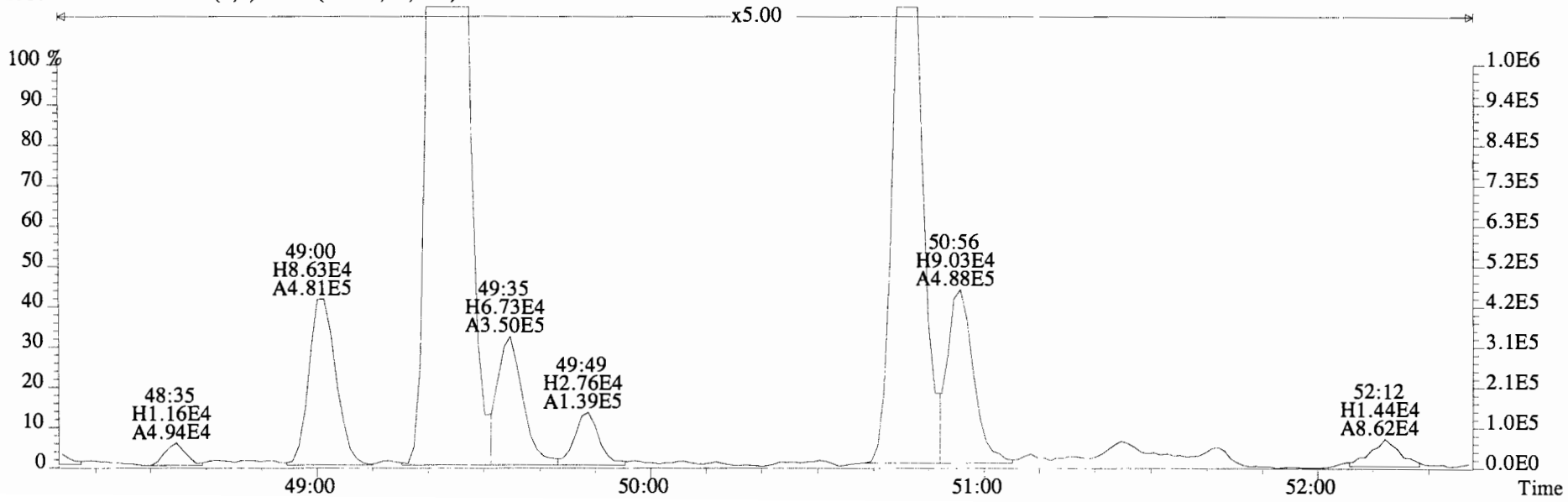
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)

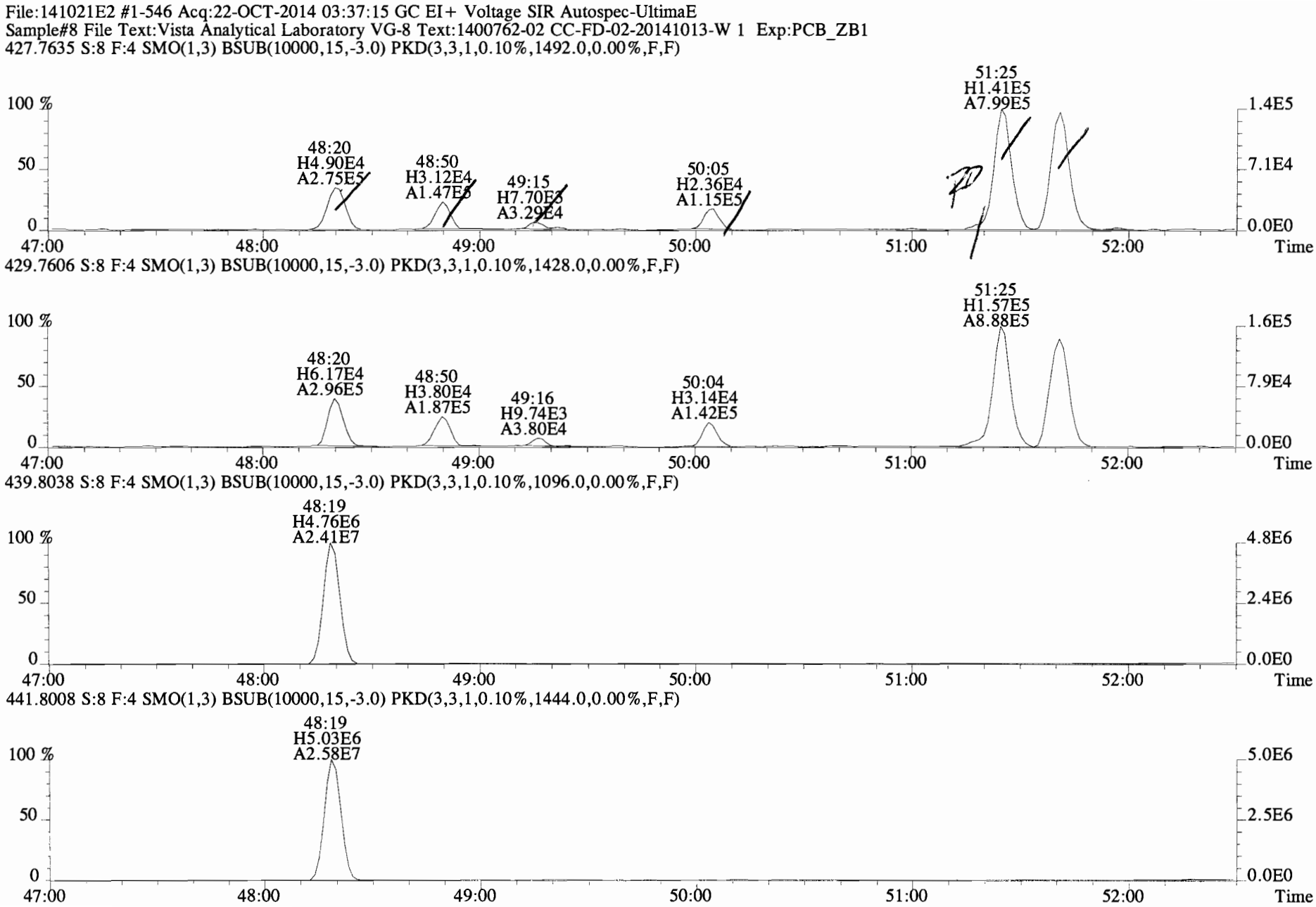


File:141021E2 #1-546 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)

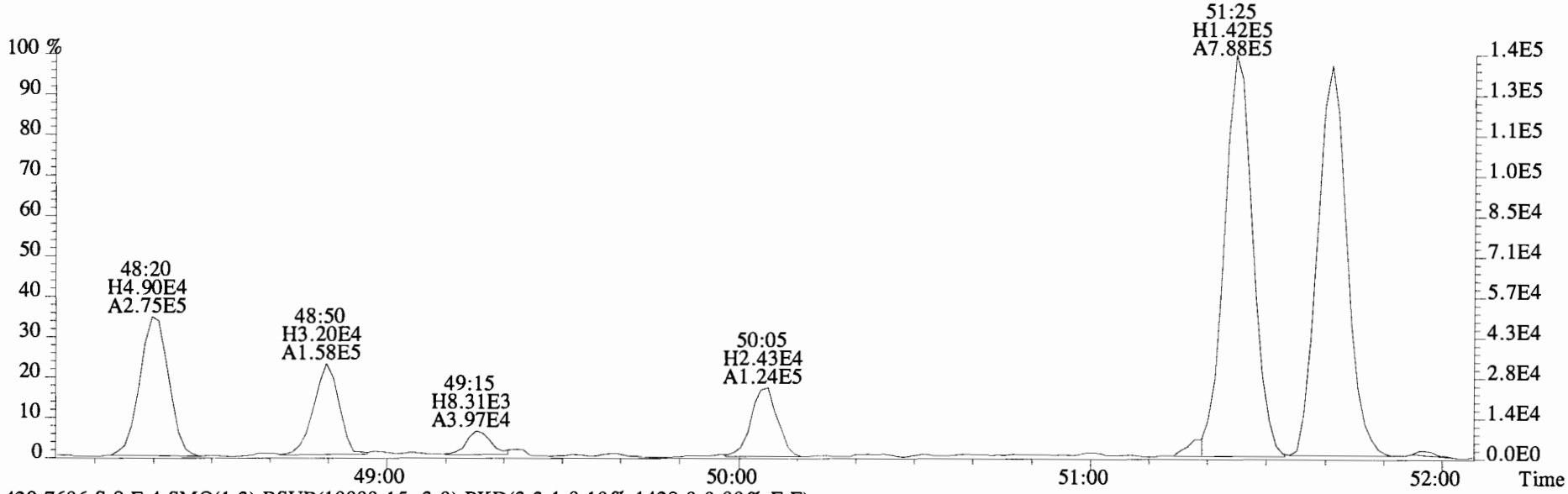


395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)

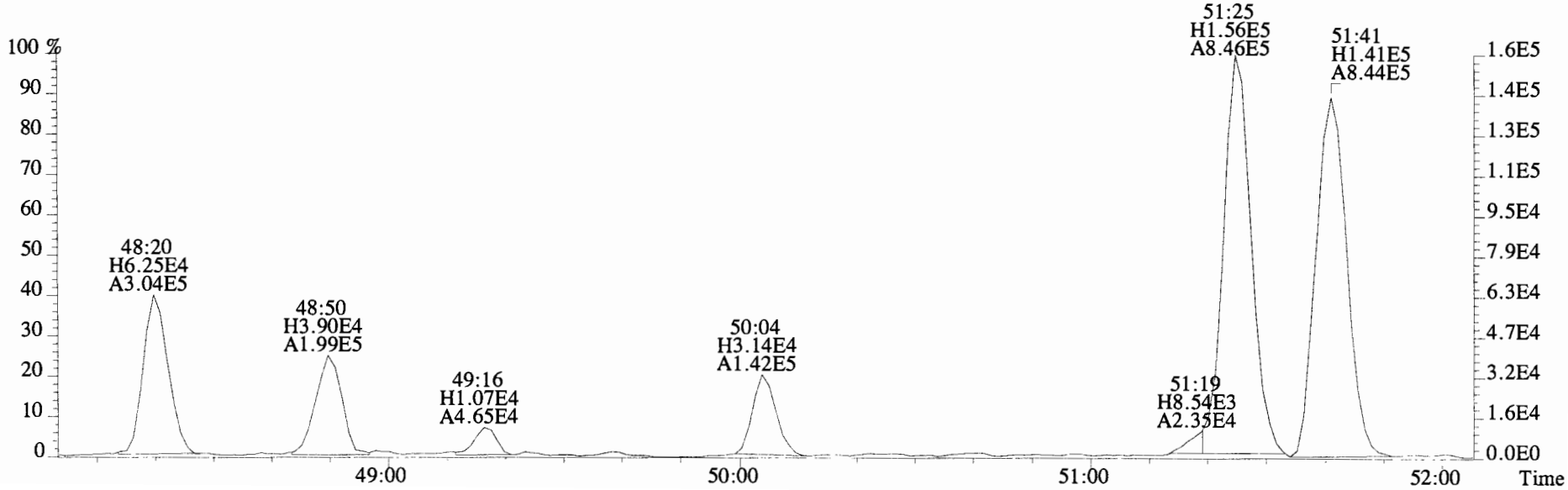



File:141021E2 #1-546 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
427.7635 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1492.0,0.00%,F,F)
48:20 H4.90E4 A2.75E5
48:50 H3.12E4 A1.47E5
49:15 H7.70E3 A3.29E4
50:05 H2.36E4 A1.15E5
51:25 H1.41E5 A7.99E5
429.7606 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1428.0,0.00%,F,F)
48:20 H6.17E4 A2.96E5
48:50 H3.80E4 A1.87E5
49:16 H9.74E3 A3.80E4
50:04 H3.14E4 A1.42E5
51:25 H1.57E5 A8.88E5
439.8038 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1096.0,0.00%,F,F)
48:19 H4.76E6 A2.41E7
441.8008 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1444.0,0.00%,F,F)
48:19 H5.03E6 A2.58E7
100 %
50
0
47:00
48:00
49:00
50:00
51:00
52:00
Time
1.4E5
7.1E4
0.0E0
1.6E5
7.9E4
4.8E6
2.4E6
5.0E6
2.5E6

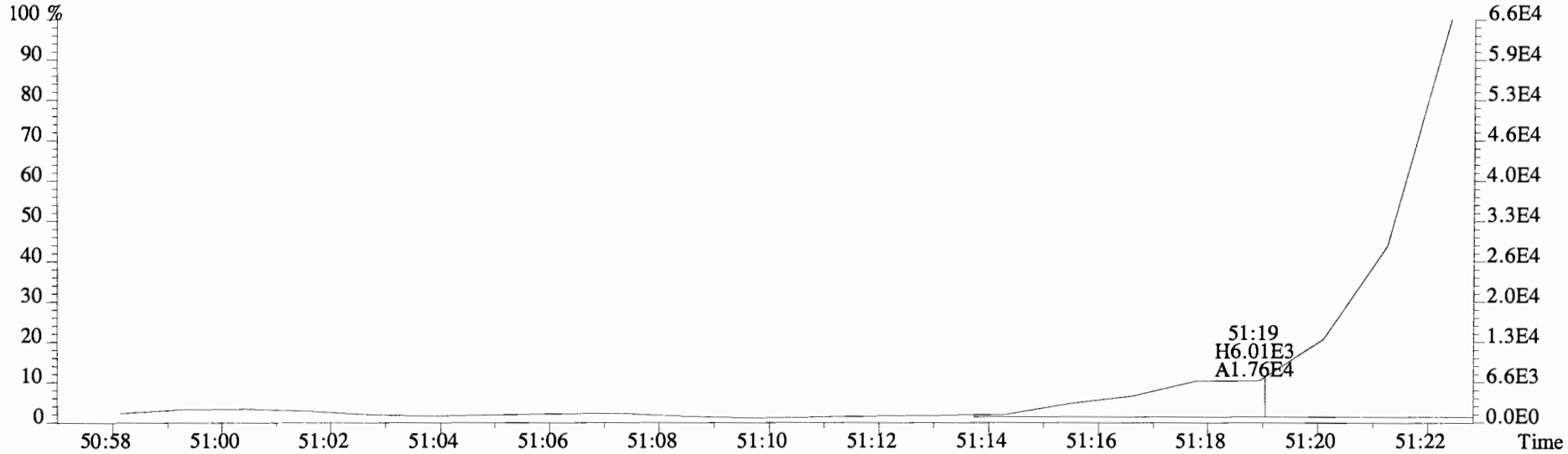
File:141021E2 #1-546 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
427.7635 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1492.0,0.00%,F,F)



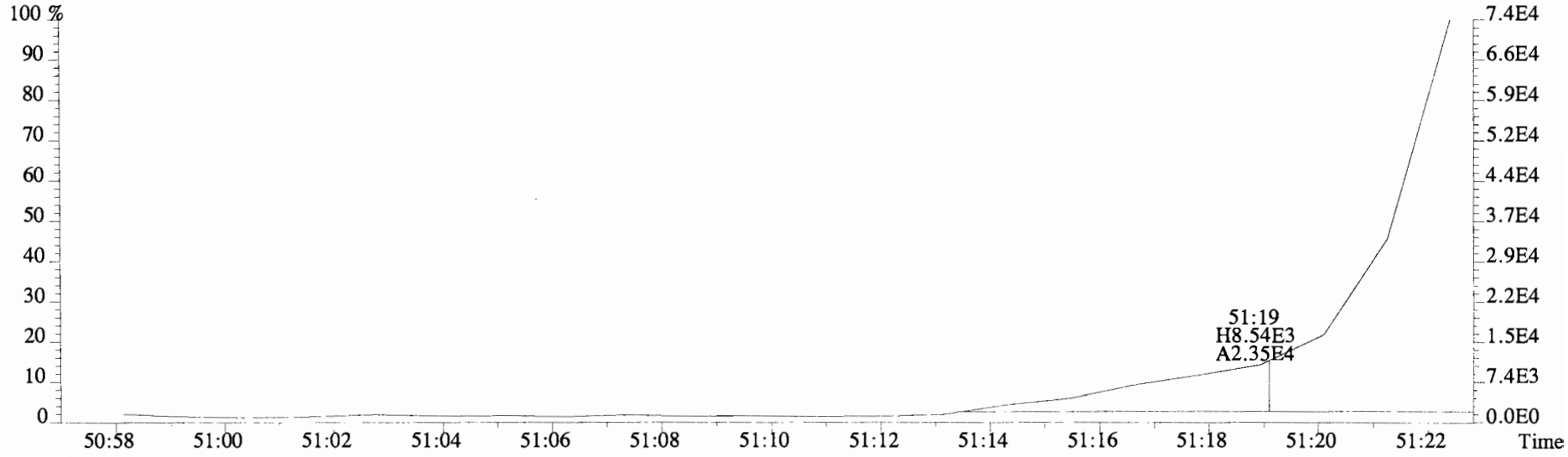
429.7606 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1428.0,0.00%,F,F)



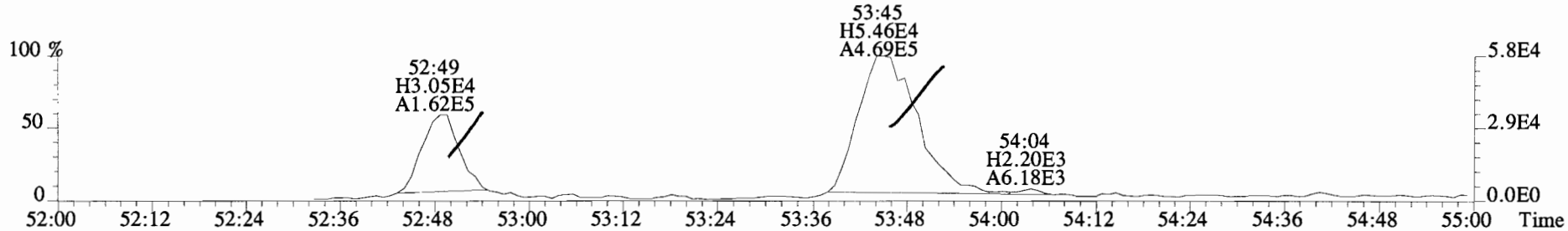
File:141021E2 #1-546 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
427.7635 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1492.0,0.00%,F,F)



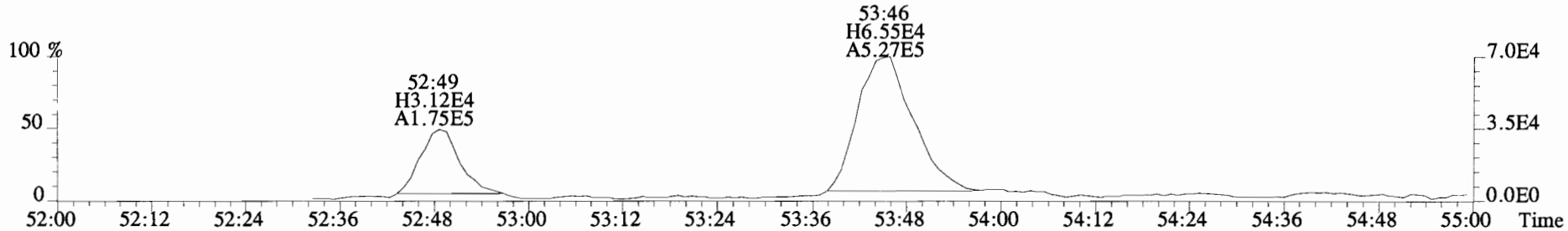
429.7606 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1428.0,0.00%,F,F)



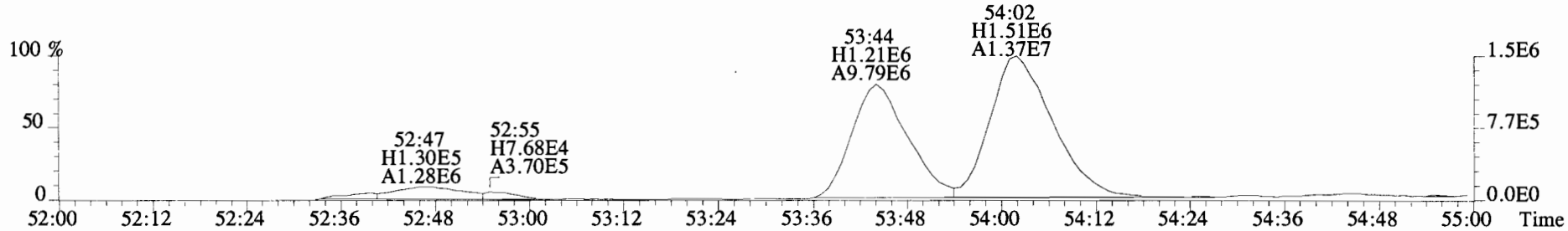
File:141021E2 #1-435 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
427.7635 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2220.0,0.00%,F,F)



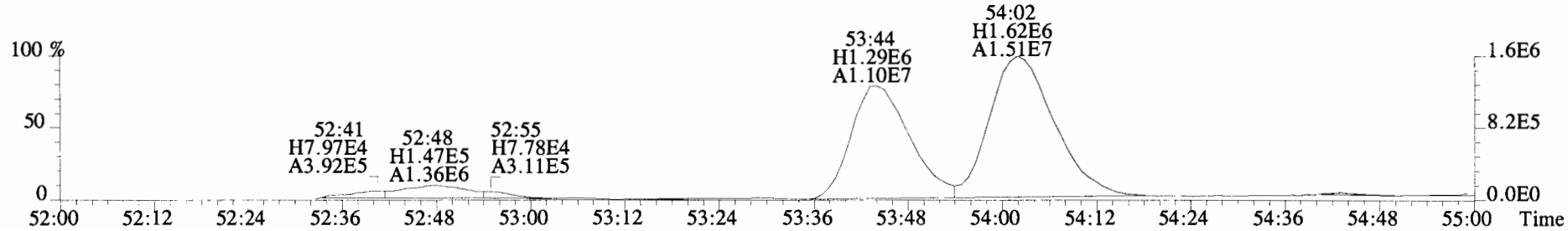
429.7606 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2832.0,0.00%,F,F)



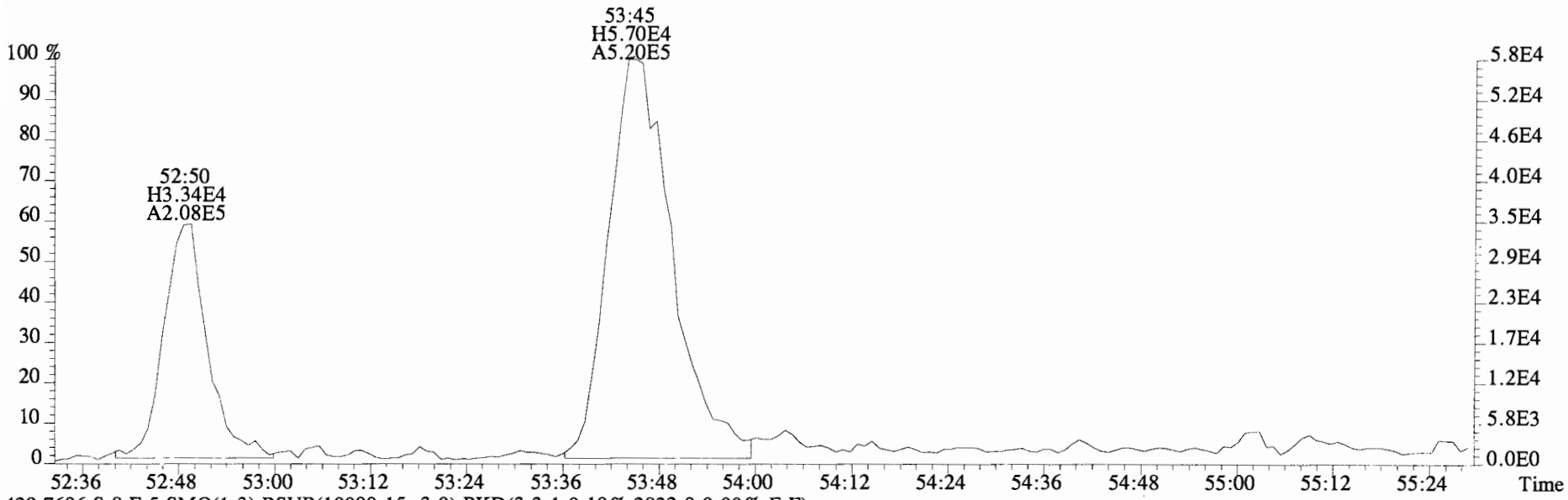
439.8038 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11044.0,0.00%,F,F)



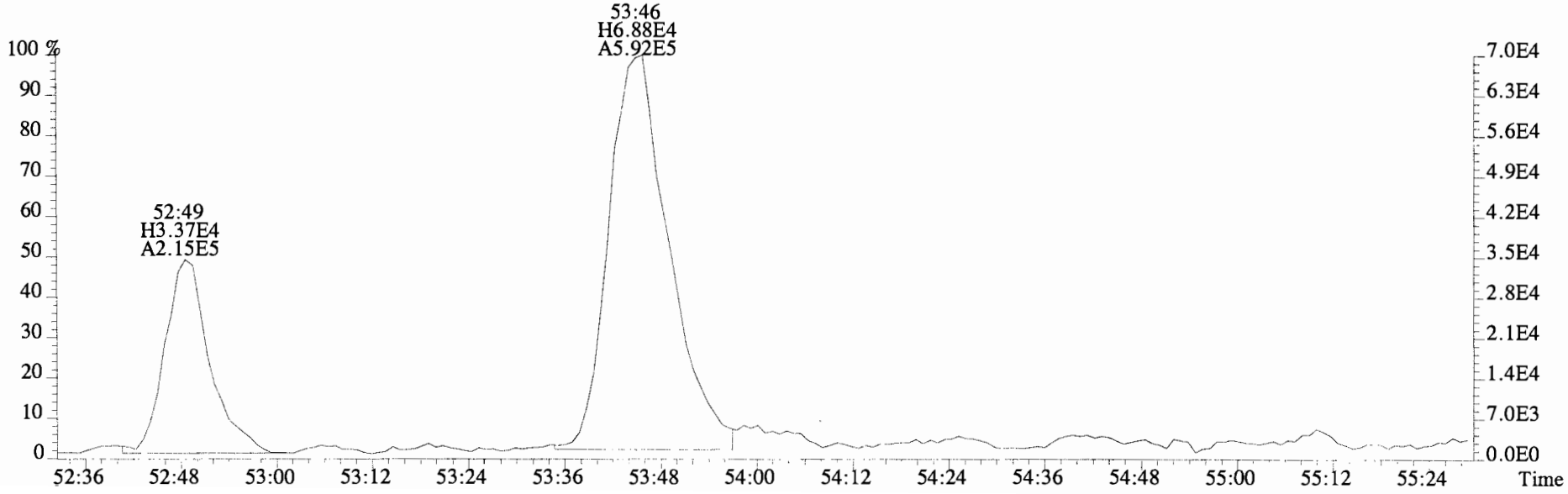
441.8008 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6784.0,0.00%,F,F)



File:141021E2 #1-435 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
427.7635 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2220.0,0.00%,F,F)

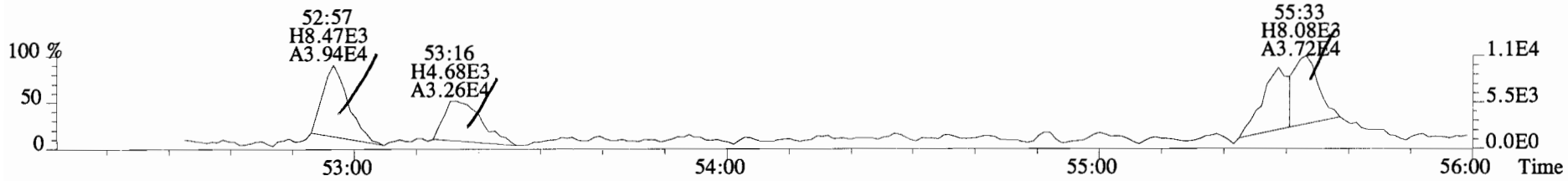


429.7696 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2832.0,0.00%,F,F)

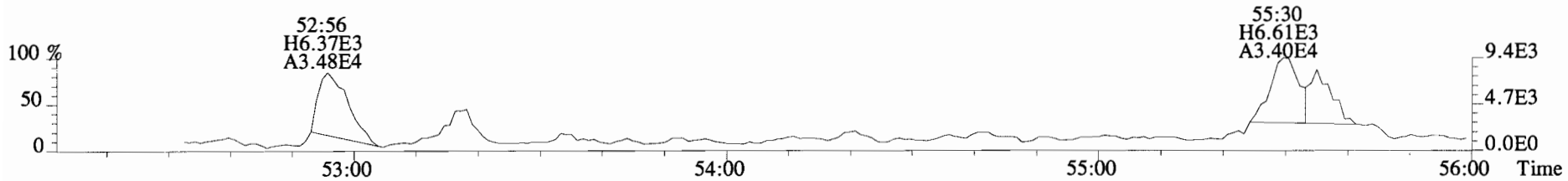


File:141021E2 #1-435 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1

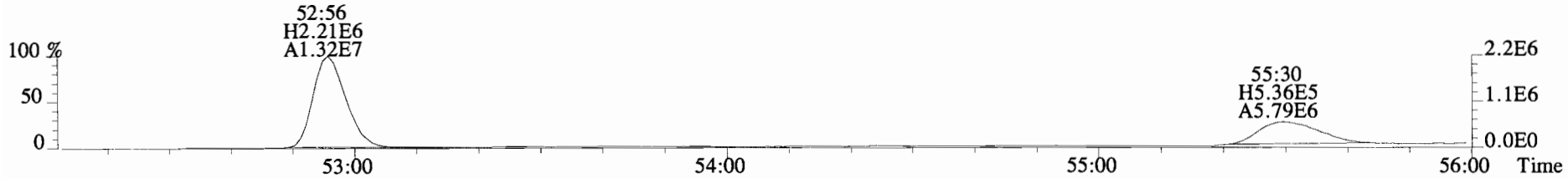
463.7216 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1428.0,0.00%,F,F)



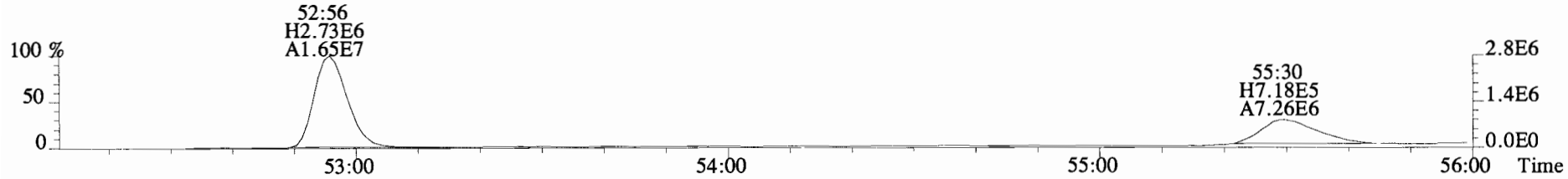
465.7186 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1492.0,0.00%,F,F)



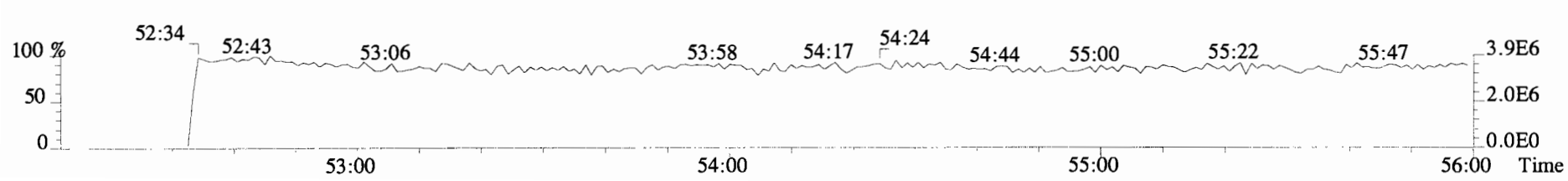
473.7648 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,28524.0,0.00%,F,F)



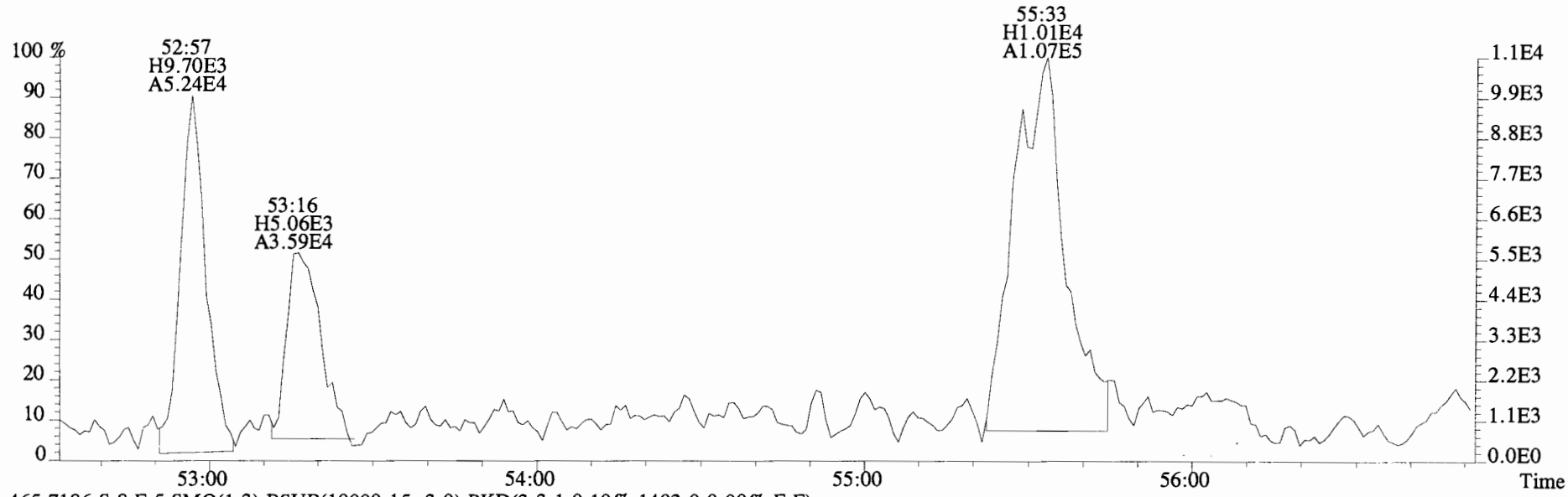
475.7619 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,36524.0,0.00%,F,F)



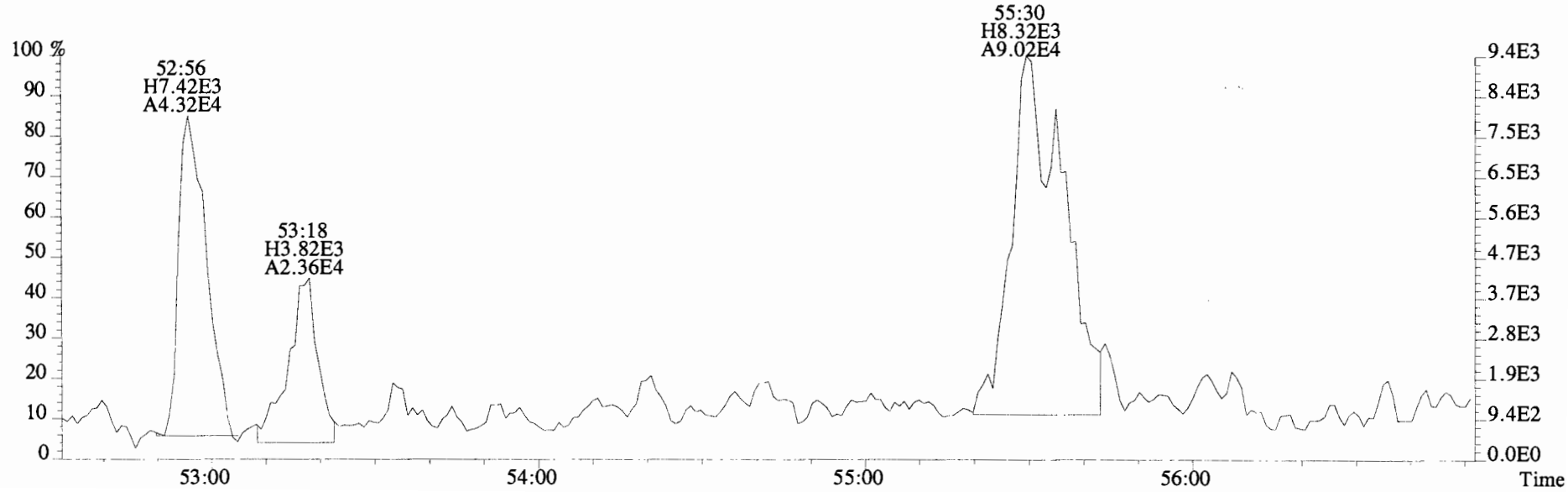
492.9697 S:8 F:5



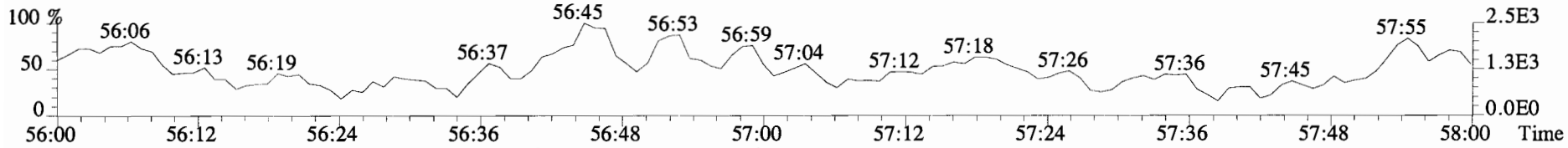
File:141021E2 #1-435 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
463.7216 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1428.0,0.00%,F,F)



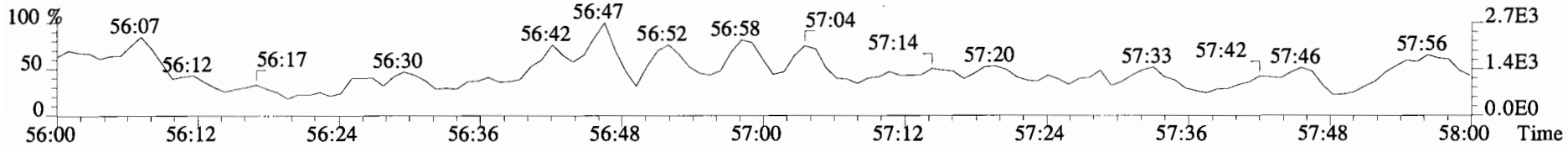
465.7186 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1492.0,0.00%,F,F)



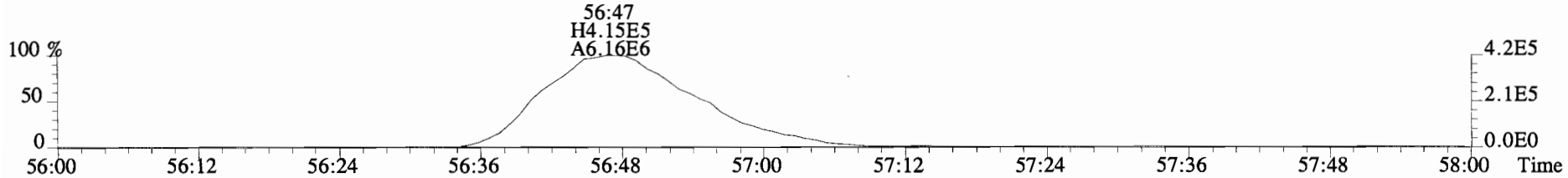
File:141021E2 #1-435 Acq:22-OCT-2014 03:37:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-02 CC-FD-02-20141013-W 1 Exp:PCB_ZB1
497.6826 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1368.0,0.00%,F,F)



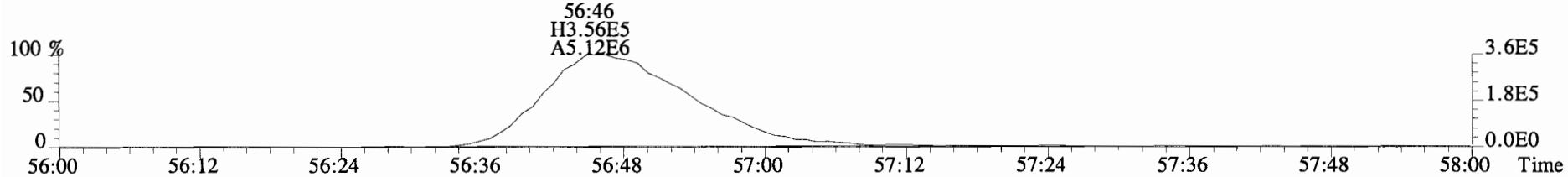
499.6797 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1500.0,0.00%,F,F)



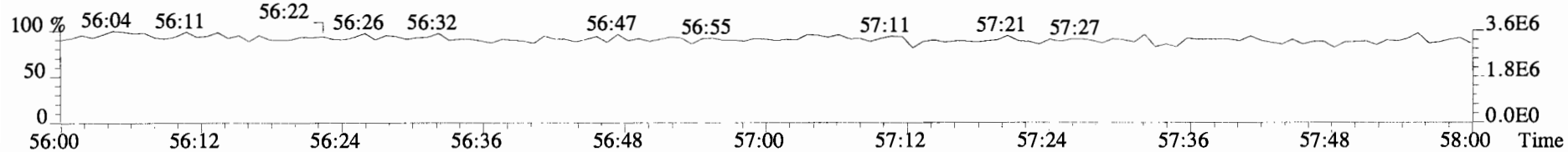
509.7229 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1576.0,0.00%,F,F)



511.7199 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1532.0,0.00%,F,F)



492.9697 S:8 F:5



Client ID: Method Blank Filename: 141024E2 S:5 Acq:25-OCT-14 06:24:56 ConCal: ST141024E2-1
Lab ID: B4J0119-BLK1 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 10.000 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	*	*	n	NotF	1.19	*		5450	2.5	1.03	*	0.996	1.006
Mono	PCB-2	*	*	n	NotF	1.18	*		5450	2.5	1.03	*	0.984	0.994
Mono	PCB-3	*	*	n	NotF	1.43	*		5450	2.5	0.857	*	0.996	1.006
Di	PCB-4/10	*	*	n	NotF	1.57	*		26700	2.5	5.38	*	0.997	1.007
Di	PCB-7/9	*	*	n	NotF	1.21	*		26700	2.5	4.44	*	0.866	0.874
Di	PCB-6	*	*	n	NotF	1.30	*		26700	2.5	4.12	*	0.890	0.899
Di	PCB-5/8	*	*	n	NotF	1.15	*		26700	2.5	4.68	*	0.907	0.917
Di	PCB-14	*	*	n	NotF	1.11	*		26700	2.5	4.47	*	0.949	0.959
Di	PCB-11	*	*	n	NotF	1.09	*		26700	2.5	4.56	*	0.995	1.005
Di	PCB-12/13	*	*	n	NotF	1.19	*		26700	2.5	4.15	*	1.011	1.021
Di	PCB-15	*	*	n	NotF	1.28	*		26700	2.5	3.87	*	1.023	1.033
Tri	PCB-19	*	*	n	NotF	1.04	*		2260	2.5	0.464	*	0.996	1.006
Tri	PCB-30	*	*	n	NotF	1.71	*		2260	2.5	0.283	*	1.032	1.042
Tri	PCB-18	*	*	n	NotF	0.78	*		2260	2.5	0.398	*	0.949	0.959
Tri	PCB-17	*	*	n	NotF	0.92	*		2260	2.5	0.338	*	0.956	0.966
Tri	PCB-24/27	*	*	n	NotF	1.19	*		2260	2.5	0.262	*	0.977	0.987
Tri	PCB-16/32	*	*	n	NotF	0.94	*		2260	2.5	0.331	*	0.995	1.005
Tri	PCB-34	*	*	n	NotF	1.14	*		2190	2.5	0.347	*	0.955	0.965
Tri	PCB-23	*	*	n	NotF	1.28	*		2190	2.5	0.309	*	0.959	0.969
Tri	PCB-29	*	*	n	NotF	1.08	*		2190	2.5	0.365	*	0.967	0.977
Tri	PCB-26	*	*	n	NotF	1.21	*		2190	2.5	0.327	*	0.974	0.984
Tri	PCB-25	*	*	n	NotF	1.26	*		2190	2.5	0.313	*	0.979	0.989
Tri	PCB-31	7.34e+04	1.10	y	28:56	1.28	0.487		*	2.5	*	0.997	0.992	1.002
Tri	PCB-28	9.24e+04	0.95	y	29:03	1.71	0.460		*	2.5	*	1.001	0.995	1.005
Tri	PCB-20/21/33	*	*	n	NotF	1.08	*		2190	2.5	0.365	*	1.017	1.027
Tri	PCB-22	*	*	n	NotF	1.21	*		2190	2.5	0.327	*	1.032	1.042
Tri	PCB-36	*	*	n	NotF	1.14	*		2190	2.5	0.400	*	0.928	0.938
Tri	PCB-39	*	*	n	NotF	1.12	*		2190	2.5	0.409	*	0.943	0.953
Tri	PCB-38	*	*	n	NotF	1.20	*		2190	2.5	0.380	*	0.966	0.976
Tri	PCB-35	*	*	n	NotF	1.23	*		2190	2.5	0.370	*	0.982	0.992
Tri	PCB-37	*	*	n	NotF	1.23	*		2190	2.5	0.371	*	0.995	1.005
Tetra	PCB-54	*	*	n	NotF	1.10	*		2020	2.5	0.298	*	0.996	1.006
Tetra	PCB-50	*	*	n	NotF	0.88	*		2020	2.5	0.373	*	1.037	1.047
Tetra	PCB-53	*	*	n	NotF	1.06	*		2020	2.5	0.357	*	0.942	0.952
Tetra	PCB-51	*	*	n	NotF	0.99	*		2020	2.5	0.383	*	0.952	0.962
Tetra	PCB-45	*	*	n	NotF	0.86	*		2020	2.5	0.439	*	0.966	0.976
Tetra	PCB-46	*	*	n	NotF	0.85	*		2020	2.5	0.449	*	0.981	0.991

Integrations by:

Analyst: DMS

Date: 10/28/14

Reviewed by: [signature] Date: 10/30/14

Client ID: Method Blank Filename: 141024E2 S:5 Acq:25-OCT-14 06:24:56 ConCal: ST141024E2-1
Lab ID: B4J0119-BLK1 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:10.000 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	*	*	n	NotF	1.28	*		2020	2.5	0.296	*	0.996	1.006
Tetra	PCB-73	*	*	n	NotF	1.35	*		2020	2.5	0.280	*	1.000	1.010
Tetra	PCB-43/49	*	*	n	NotF	0.99	*		2020	2.5	0.381	*	1.005	1.015
Tetra	PCB-47	*	*	n	NotF	1.06	*		2020	2.5	0.338	*	0.996	1.006
Tetra	PCB-48/75	*	*	n	NotF	1.23	*		2020	2.5	0.291	*	0.999	1.009
Tetra	PCB-65	*	*	n	NotF	1.22	*		2020	2.5	0.292	*	1.008	1.018
Tetra	PCB-62	*	*	n	NotF	1.22	*		2020	2.5	0.293	*	1.011	1.021
Tetra	PCB-44	*	*	n	NotF	0.86	*		2020	2.5	0.416	*	1.021	1.031
Tetra	PCB-42/59	*	*	n	NotF	1.14	*		2020	2.5	0.314	*	1.028	1.038
Tetra	PCB-41/64/71/72	*	*	n	NotF	1.21	*		2020	2.5	0.296	*	1.046	1.056
Tetra	PCB-68	*	*	n	NotF	1.35	*		2020	2.5	0.265	*	1.054	1.064
Tetra	PCB-40	*	*	n	NotF	0.70	*		2020	2.5	0.510	*	1.061	1.071
Tetra	PCB-57	*	*	n	NotF	0.98	*		2020	2.5	0.271	*	0.965	0.975
Tetra	PCB-67	*	*	n	NotF	1.11	*		2020	2.5	0.240	*	0.974	0.984
Tetra	PCB-58	*	*	n	NotF	0.93	*		2020	2.5	0.287	*	0.977	0.987
Tetra	PCB-63	*	*	n	NotF	0.95	*		2020	2.5	0.279	*	0.982	0.992
Tetra	PCB-74	*	*	n	NotF	1.24	*		2020	2.5	0.214	*	0.990	1.000
Tetra	PCB-61/70	*	*	n	NotF	0.95	*		2020	2.5	0.279	*	0.995	1.005
Tetra	PCB-76/66	1.23e+05	0.82	y	35:40	1.04	0.762		*	2.5	*	1.007	1.001	1.011
Tetra	PCB-80	*	*	n	NotF	1.19	*		2020	2.5	0.218	*	0.996	1.006
Tetra	PCB-55	*	*	n	NotF	1.04	*		2020	2.5	0.249	*	1.005	1.015
Tetra	PCB-56/60	9.73e+04	0.74	y	36:40	1.01	0.582		*	2.5	*	1.024	1.019	1.029
Tetra	PCB-79	*	*	n	NotF	1.08	*		2020	2.5	0.241	*	1.048	1.058
Tetra	PCB-78	*	*	n	NotF	1.27	*		2020	2.5	0.232	*	0.982	0.992
Tetra	PCB-81	*	*	n	NotF	1.33	*		2020	2.5	0.222	*	0.995	1.005
Tetra	PCB-77	*	*	n	NotF	1.10	*		2020	2.5	0.258	*	0.995	1.005
Penta	PCB-104	*	*	n	NotF	1.18	*		2860	2.5	0.628	*	0.996	1.006
Penta	PCB-96	*	*	n	NotF	1.14	*		2860	2.5	0.653	*	1.034	1.044
Penta	PCB-103	*	*	n	NotF	0.96	*		2860	2.5	0.777	*	1.050	1.060
Penta	PCB-100	*	*	n	NotF	0.94	*		2860	2.5	0.793	*	1.061	1.071
Penta	PCB-94	*	*	n	NotF	1.06	*		2860	2.5	0.905	*	0.980	0.990
Penta	PCB-95/98/102	2.02e+05	1.37	y	35:44	1.22	1.86		*	2.5	*	1.000	0.995	1.005
Penta	PCB-93	*	*	n	NotF	0.84	*		2860	2.5	1.13	*	0.997	1.007
Penta	PCB-88/91	*	*	n	NotF	1.12	*		2860	2.5	0.857	*	1.005	1.015
Penta	PCB-121	*	*	n	NotF	1.62	*		2860	2.5	0.592	*	1.009	1.019
Penta	PCB-84/92	*	*	n	NotF	1.05	*		2860	2.5	0.852	*	0.985	0.995
Penta	PCB-89	*	*	n	NotF	1.13	*		2860	2.5	0.789	*	0.991	1.001

Analyst: DMS

Date: 10/28/14

Client ID: Method Blank Filename: 141024E2 S:5 Acq:25-OCT-14 06:24:56 ConCal: ST141024E2-1
Lab ID: B4J0119-BLK1 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:10.000 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	1.39e+05	1.61	y	37:24	1.10	1.28		*	2.5	*	1.000	0.995	1.005
Penta	PCB-113	*	*	n	NotF	1.41	*		2860	2.5	0.632	*	1.002	1.012
Penta	PCB-99	*	*	n	NotF	1.34	*		2860	2.5	0.667	*	1.004	1.014
Penta	PCB-119	*	*	n	NotF	1.53	*		2860	2.5	0.615	*	0.982	0.992
Penta	PCB-108/112	*	*	n	NotF	1.28	*		2860	2.5	0.736	*	0.986	0.996
Penta	PCB-83	*	*	n	NotF	1.52	*		2860	2.5	0.621	*	0.990	1.000
Penta	PCB-97	*	*	n	NotF	1.18	*		2860	2.5	0.797	*	0.995	1.005
Penta	PCB-86	*	*	n	NotF	0.84	*		2860	2.5	1.12	*	0.999	1.009
Penta	PCB-87/117/125	*	*	n	NotF	1.55	*		2860	2.5	0.608	*	1.002	1.012
Penta	PCB-111/115	*	*	n	NotF	1.63	*		2860	2.5	0.577	*	1.006	1.016
Penta	PCB-85/116	*	*	n	NotF	1.30	*		2860	2.5	0.724	*	1.010	1.020
Penta	PCB-120	*	*	n	NotF	1.68	*		2860	2.5	0.562	*	1.016	1.026
Penta	PCB-110	1.24e+05	1.45	y	39:40	1.56	0.874		*	2.5	*	1.025	1.020	1.030
Penta	PCB-82	*	*	n	NotF	0.76	*		2860	2.5	0.933	*	0.971	0.981
Penta	PCB-124	*	*	n	NotF	1.47	*		2860	2.5	0.482	*	0.988	0.998
Penta	PCB-107/109	*	*	n	NotF	1.32	*		2860	2.5	0.536	*	0.991	1.001
Penta	PCB-123	*	*	n	NotF	1.17	*		2860	2.5	0.606	*	0.996	1.006
Penta	PCB-106/118	*	*	n	NotF	1.17	*		2860	2.5	0.594	*	0.996	1.006
Penta	PCB-114	*	*	n	NotF	1.30	*		2820	2.5	0.595	*	0.995	1.005
Penta	PCB-122	*	*	n	NotF	1.12	*		2820	2.5	0.688	*	0.999	1.009
Penta	PCB-105	7.42e+04	1.46	y	43:00	1.30	0.499		*	2.5	*	1.000	0.995	1.005
Penta	PCB-127	*	*	n	NotF	1.33	*		2820	2.5	0.561	*	0.996	1.006
Penta	PCB-126	*	*	n	NotF	1.18	*		2820	2.5	0.724	*	0.995	1.005
Hexa	PCB-155	*	*	n	NotF	1.11	*		1770	2.5	0.356	*	0.966	1.006
Hexa	PCB-150	*	*	n	NotF	1.00	*		1770	2.5	0.397	*	1.030	1.040
Hexa	PCB-152	*	*	n	NotF	1.12	*		1770	2.5	0.355	*	1.043	1.053
Hexa	PCB-145	*	*	n	NotF	1.20	*		1770	2.5	0.330	*	1.055	1.065
Hexa	PCB-136	8.61e+04	1.32	y	39:29	1.18	0.627		*	2.5	*	1.069	1.064	1.074
Hexa	PCB-148	*	*	n	NotF	0.74	*		1770	2.5	0.532	*	1.066	1.076
Hexa	PCB-154	*	*	n	NotF	0.86	*		1770	2.5	0.462	*	1.080	1.090
Hexa	PCB-151	7.06e+04	1.65	n	40:42	0.75	0.811	R	*	2.5	*	1.102	1.097	1.107
Hexa	PCB-135	*	*	n	NotF	0.79	*		1770	2.5	0.500	*	1.103	1.113
Hexa	PCB-144	*	*	n	NotF	0.76	*		1770	2.5	0.520	*	1.105	1.117
Hexa	PCB-147	*	*	n	NotF	0.82	*		1770	2.5	0.483	*	1.109	1.121
Hexa	PCB-139/149	2.16e+05	1.13	y	41:25	0.76	2.43		*	2.5	*	1.121	1.116	1.128
Hexa	PCB-140	*	*	n	NotF	0.72	*		1770	2.5	0.548	*	1.121	1.133
Hexa	PCB-134/143	*	*	n	NotF	0.92	*		1810	2.5	0.458	*	0.970	0.980

Analyst: DMJ

Date: 10/28/14

Client ID: Method Blank Filename: 141024E2 S:5 Acq:25-OCT-14 06:24:56 ConCal: ST141024E2-1
Lab ID: B4J0119-BLK1 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:10.000 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	*	*	n	NotF	0.82	*		1810	2.5	0.513	*	0.977	0.987
Hexa	PCB-131	*	*	n	NotF	0.91	*		1810	2.5	0.463	*	0.981	0.991
Hexa	PCB-146/165	*	*	n	NotF	1.25	*		1810	2.5	0.337	*	0.986	0.996
Hexa	PCB-132/161	7.73e+04	1.00	n	43:00	1.10	0.612	R	*	2.5	*	0.997	0.992	1.002
Hexa	PCB-153	2.46e+05	1.42	y	43:07	1.25	1.72		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-168	*	*	n	NotF	1.45	*		1810	2.5	0.290	*	1.001	1.011
Hexa	PCB-141	*	*	n	NotF	1.09	*		1810	2.5	0.417	*	0.995	1.005
Hexa	PCB-137	*	*	n	NotF	1.06	*		1810	2.5	0.426	*	1.004	1.014
Hexa	PCB-130	*	*	n	NotF	0.96	*		1810	2.5	0.469	*	1.006	1.016
Hexa	PCB-138/163/164	2.10e+05	1.00	n	44:45	1.29	1.47	R	*	2.5	*	1.001	0.996	1.006
Hexa	PCB-158/160	*	*	n	NotF	1.34	*		1810	2.5	0.322	*	1.001	1.011
Hexa	PCB-129	*	*	n	NotF	0.85	*		1810	2.5	0.507	*	1.007	1.017
Hexa	PCB-166	*	*	n	NotF	1.19	*		1810	2.5	0.337	*	0.988	0.998
Hexa	PCB-159	*	*	n	NotF	1.11	*		1810	2.5	0.359	*	0.996	1.006
Hexa	PCB-128/162	*	*	n	NotF	1.05	*		1810	2.5	0.381	*	1.002	1.012
Hexa	PCB-167	*	*	n	NotF	1.20	*		1810	2.5	0.310	*	0.995	1.005
Hexa	PCB-156	*	*	n	NotF	1.14	*		1810	2.5	0.349	*	0.996	1.006
Hexa	PCB-157	*	*	n	NotF	1.16	*		1810	2.5	0.331	*	0.995	1.005
Hexa	PCB-169	*	*	n	NotF	1.12	*		1810	2.5	0.352	*	0.995	1.005
Hepta	PCB-188	*	*	n	NotF	1.58	*		1610	2.5	0.168	*	0.996	1.006
Hepta	PCB-184	*	*	n	NotF	1.63	*		1610	2.5	0.163	*	1.006	1.016
Hepta	PCB-179	8.27e+04	1.21	y	44:01	1.30	0.617		*	2.5	*	1.029	1.024	1.034
Hepta	PCB-176	*	*	n	NotF	1.48	*		1610	2.5	0.180	*	1.035	1.045
Hepta	PCB-186	*	*	n	NotF	1.45	*		1610	2.5	0.183	*	1.050	1.060
Hepta	PCB-178	*	*	n	NotF	1.03	*		1610	2.5	0.257	*	1.061	1.071
Hepta	PCB-175	*	*	n	NotF	1.01	*		1610	2.5	0.263	*	1.069	1.079
Hepta	PCB-182/187	7.45e+04	1.20	y	46:05	1.25	0.579		*	2.5	*	1.078	1.073	1.083
Hepta	PCB-183	6.75e+04	1.18	y	46:25	1.21	0.543		*	2.5	*	1.086	1.081	1.091
Hepta	PCB-185	*	*	n	NotF	1.80	*		1610	2.5	0.195	*	0.951	0.961
Hepta	PCB-174	4.01e+04	0.78	n	47:28	1.38	0.362	R	*	2.5	*	0.963	0.958	0.968
Hepta	PCB-181	*	*	n	NotF	1.38	*		1610	2.5	0.254	*	0.960	0.970
Hepta	PCB-177	*	*	n	NotF	1.26	*		1610	2.5	0.280	*	0.963	0.973
Hepta	PCB-171	*	*	n	NotF	1.58	*		1610	2.5	0.222	*	0.970	0.980
Hepta	PCB-173	*	*	n	NotF	1.11	*		1610	2.5	0.316	*	0.978	0.988
Hepta	PCB-172	*	*	n	NotF	1.63	*		1610	2.5	0.215	*	0.987	0.997
Hepta	PCB-192	*	*	n	NotF	1.74	*		1610	2.5	0.202	*	0.991	1.001
Hepta	PCB-180	*	*	n	NotF	1.34	*		1610	2.5	0.261	*	0.995	1.005

Analyst: DMS

Date: 10/28/14

Client ID: Method Blank Filename: 141024E2 S:5 Acq:25-OCT-14 06:24:56 ConCal: ST141024E2-1
Lab ID: B4J0119-BLK1 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:10.000 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	*	*	n NotF	1.72	*		1610	2.5	0.205	*	0.999	1.009
Hepta	PCB-191	*	*	n NotF	1.69	*		1610	2.5	0.207	*	1.004	1.014
Hepta	PCB-170	*	*	n NotF	1.60	*		1610	2.5	0.259	*	0.995	1.005
Hepta	PCB-190	*	*	n NotF	2.21	*		1610	2.5	0.187	*	0.998	1.008
Hepta	PCB-189	*	*	n NotF	1.55	*		1610	2.5	0.230	*	0.995	1.005
Octa	PCB-202	*	*	n NotF	1.08	*		1740	2.5	0.342	*	0.995	1.005
Octa	PCB-201	*	*	n NotF	1.15	*		1740	2.5	0.322	*	1.005	1.015
Octa	PCB-204	*	*	n NotF	1.14	*		1740	2.5	0.325	*	1.008	1.018
Octa	PCB-197	*	*	n NotF	1.07	*		1740	2.5	0.344	*	1.015	1.025
Octa	PCB-200	*	*	n NotF	1.06	*		1740	2.5	0.348	*	1.032	1.044
Octa	PCB-198	*	*	n NotF	0.76	*		1740	2.5	0.490	*	1.059	1.069
Octa	PCB-199	*	*	n NotF	0.80	*		1740	2.5	0.464	*	1.061	1.071
Octa	PCB-196/203	*	*	n NotF	0.80	*		1740	2.5	0.462	*	1.066	1.076
Octa	PCB-195	*	*	n NotF	1.23	*		2610	2.5	0.859	*	0.979	0.989
Octa	PCB-194	*	*	n NotF	1.21	*		2610	2.5	0.869	*	0.995	1.005
Octa	PCB-205	*	*	n NotF	1.54	*		2610	2.5	0.683	*	1.001	1.011
Nona	PCB-208	*	*	n NotF	0.93	*		1380	2.5	0.307	*	0.995	1.005
Nona	PCB-207	*	*	n NotF	1.08	*		1380	2.5	0.264	*	1.001	1.011
Nona	PCB-206	*	*	n NotF	1.02	*		1380	2.5	0.828	*	0.995	1.005
Deca	PCB-209	*	*	n NotF	1.17	*		1130	2.5	0.872	*	0.995	1.005

Analyst: DMS

Date: 10/28/14

Client ID: Method Blank Filename: 141024E2 S:5 Acq:25-OCT-14 06:24:56 ConCal: ST141024E2-1
Lab ID: B4J0119-BLK1 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 10.0000 EndCAL: NA

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	*	*	n	NotFnd	1.27	*	
Total Di-PCB	*	*	n	NotFnd	1.21	*	
Total Tri-PCB	*	*	n	NotFnd	1.10	*	
Total Tri-PCB	1.66e+05	1.10	y	28:56	1.21	0.947261	Sum:0.947261
Total Tetra-PCB	2.20e+05	0.82	y	35:40	1.09	1.34382	
Total Penta-PCB	4.65e+05	1.37	y	35:44	1.18	4.01613	
Total Penta-PCB	7.42e+04	1.46	y	43:00	1.25	0.499227	Sum:4.51536
Total Hexa-PCB	3.02e+05	1.32	y	39:29	0.90	3.05652	
Total Hexa-PCB	2.46e+05	1.42	y	43:07	1.11	1.72211	Sum:4.77864
Total Hepta-PCB	2.25e+05	1.21	y	44:01	1.42	1.73871	
Total Octa-PCB	*	*	n	NotFnd	0.96	*	
Total Octa-PCB	*	*	n	NotFnd	1.33	*	Sum:0.00000
Total Nona-PCB	*	*	n	NotFnd	1.01	*	
Total Deca-PCB	*	*	n	NotFnd	1.17	*	

Total PCB Conc:16.5012560000
13,3

Integrations by Analyst: DMS
Date: 10/28/14

Client ID: Method Blank Filename: 141024E2 S:5 Acq:25-OCT-14 06:24:56 ConCal: ST141024E2-1
Lab ID: B4J0119-BLK1 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:10.00 EndCAL: NA

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.61e+08	3.24	y	0.87	16:26	0.633	0.629	0.635	948	94.8
13C-PCB-3	1.70e+08	3.27	y	0.91	18:56	0.730	0.725	0.733	959	95.9
13C-PCB-4	7.88e+07	1.59	y	0.59	20:14	0.780	0.775	0.783	691	69.1
13C-PCB-9	1.23e+08	1.59	y	0.90	21:57	0.846	0.842	0.850	708	70.8
13C-PCB-11	1.36e+08	1.56	y	0.94	25:14	0.973	0.968	0.978	746	74.6
13C-PCB-19	9.37e+07	1.10	y	0.53	24:16	0.935	0.930	0.940	907	90.7
13C-PCB-28	1.17e+08	0.91	y	0.93	29:02	1.003	0.999	1.009	791	79.1
13C-PCB-32	1.47e+08	1.10	y	0.80	27:07	1.045	1.040	1.050	952	95.2
13C-PCB-37	1.16e+08	1.08	y	0.84	32:53	1.136	1.131	1.143	869	86.9
13C-PCB-47	1.13e+08	0.76	y	0.81	31:56	0.871	0.866	0.874	787	78.7
13C-PCB-52	1.04e+08	0.76	y	0.77	31:25	0.857	0.853	0.861	761	76.1
13C-PCB-54	1.22e+08	0.79	y	0.97	27:57	0.762	0.758	0.766	705	70.5
13C-PCB-70	1.54e+08	0.79	y	1.00	35:25	0.966	0.961	0.971	871	87.1
13C-PCB-77	1.49e+08	0.79	y	0.94	39:33	1.079	1.073	1.083	893	89.3
13C-PCB-80	1.66e+08	0.79	y	1.03	35:49	0.977	0.972	0.982	904	90.4
13C-PCB-81	1.47e+08	0.78	y	0.92	38:57	1.062	1.057	1.067	897	89.7
13C-PCB-95	8.86e+07	1.60	y	0.74	35:43	0.913	0.908	0.918	828	82.8
13C-PCB-97	9.14e+07	1.62	y	0.70	38:42	0.990	0.984	0.994	899	89.9
13C-PCB-101	9.83e+07	1.61	y	0.78	37:24	0.956	0.951	0.961	869	86.9
13C-PCB-104	1.13e+08	1.59	y	1.00	32:35	0.833	0.828	0.836	781	78.1
13C-PCB-105	1.15e+08	1.59	y	1.37	42:59	0.928	0.924	0.934	742	74.2
13C-PCB-114	1.13e+08	1.60	y	1.36	42:07	0.910	0.905	0.915	735	73.5
13C-PCB-118	1.28e+08	1.62	y	0.96	41:27	1.060	1.054	1.064	925	92.5
13C-PCB-123	1.21e+08	1.59	y	0.89	41:16	1.055	1.050	1.060	938	93.8
13C-PCB-126	1.06e+08	1.58	y	1.31	45:13	0.977	0.972	0.982	717	71.7
13C-PCB-127	1.18e+08	1.58	y	1.47	43:18	0.935	0.931	0.941	707	70.7
13C-PCB-138	1.10e+08	1.27	y	1.10	44:43	0.966	0.961	0.971	887	88.7
13C-PCB-141	1.06e+08	1.26	y	1.07	43:52	0.948	0.943	0.953	877	87.7
13C-PCB-153	1.14e+08	1.28	y	1.15	43:07	0.931	0.927	0.937	883	88.3
13C-PCB-155	1.17e+08	1.25	y	0.84	36:56	0.944	0.939	0.949	961	96.1
13C-PCB-156	1.31e+08	1.28	y	1.30	47:60	1.037	1.032	1.042	898	89.8
13C-PCB-157	1.39e+08	1.29	y	1.36	48:17	1.043	1.038	1.048	909	90.9
13C-PCB-159	1.26e+08	1.27	y	1.25	45:60	0.993	0.989	0.999	893	89.3
13C-PCB-167	1.36e+08	1.28	y	1.35	46:41	1.008	1.004	1.014	894	89.4
13C-PCB-169	1.30e+08	1.26	y	1.29	50:19	1.087	1.083	1.093	897	89.7
13C-PCB-170	6.48e+07	0.46	y	0.54	50:40	1.094	1.089	1.101	1060	106
13C-PCB-180	8.05e+07	0.47	y	0.68	49:16	1.064	1.060	1.070	1040	104
13C-PCB-188	1.03e+08	0.46	y	0.92	42:45	0.924	0.919	0.929	992	99.2
13C-PCB-189	8.49e+07	0.46	y	0.72	52:05	1.125	1.120	1.132	1050	105
13C-PCB-194	6.84e+07	0.93	y	0.80	53:37	0.994	0.990	1.000	956	95.6
13C-PCB-202	1.09e+08	0.92	y	0.84	48:13	1.041	1.036	1.046	1150	115
13C-PCB-206	5.00e+07	0.79	y	0.65	55:20	1.026	1.021	1.031	857	85.7
13C-PCB-208	9.33e+07	0.77	y	1.08	52:50	0.980	0.976	0.986	963	96.3
13C-PCB-209	4.98e+07	1.18	y	0.61	56:36	1.050	1.045	1.055	909	90.9

CRS vs. RS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.57e+08	0.78	y	1.02	37:42	1.028	1.023	1.034	868	86.8
13C-PCB-178	6.87e+07	0.45	y	0.61	45:33	0.984	0.979	0.990	992	99.2

PS vs. IS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.57e+08	0.78	y	1.10	37:42	0.968	0.964	0.974	967	96.7
13C-PCB-178	6.87e+07	0.45	y	0.90	45:33	0.925	0.920	0.930	951	95.1

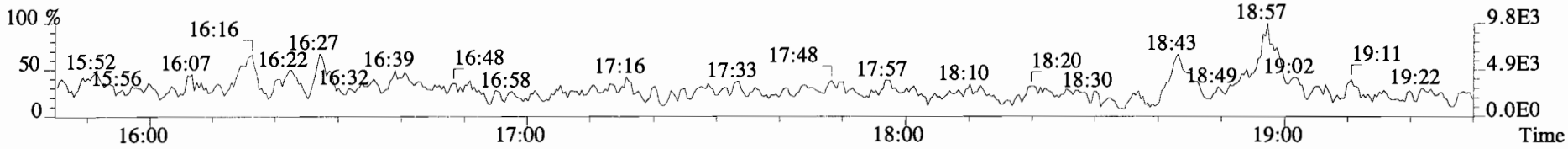
RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	1.94e+08	1.57	y	1.00	25:56	1000
13C-PCB-31	1.59e+08	1.15	y	1.00	28:56	1000
13C-PCB-60	1.78e+08	0.77	y	1.00	36:40	1000
13C-PCB-111	1.44e+08	1.62	y	1.00	39:07	1000
13C-PCB-128	1.13e+08	1.28	y	1.00	46:18	1000
13C-PCB-205	8.97e+07	0.90	y	1.00	53:55	1000

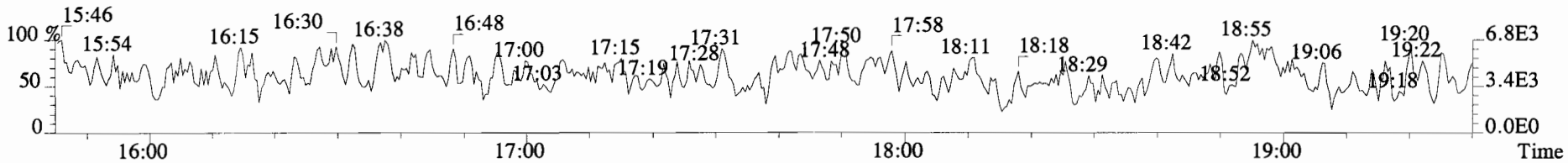
Analyst: DMS

Date: 10/28/14

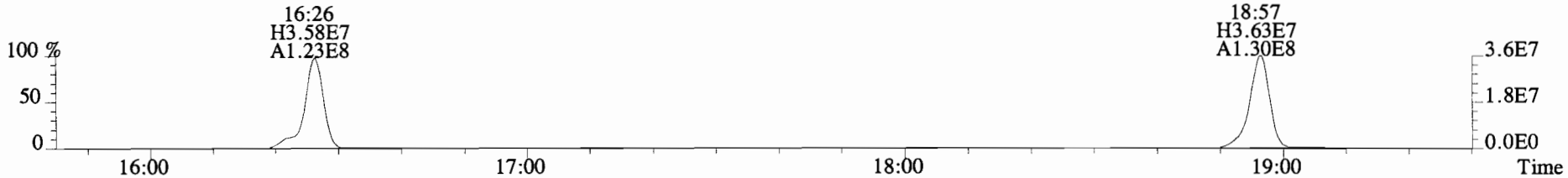
File:141024E2 #1-729 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
188.0393 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3356.0,0.00%,F,F)



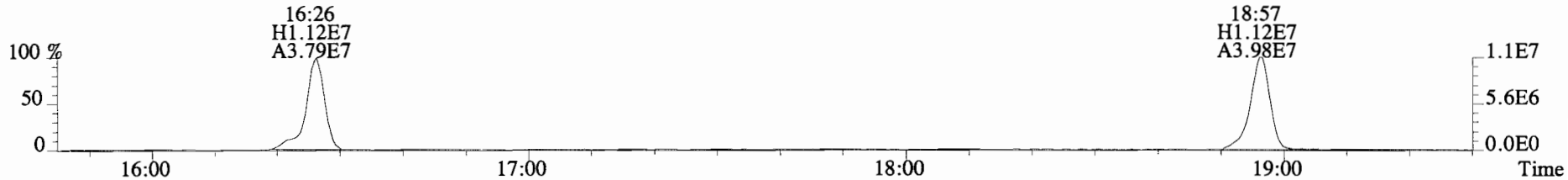
190.0363 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5452.0,0.00%,F,F)



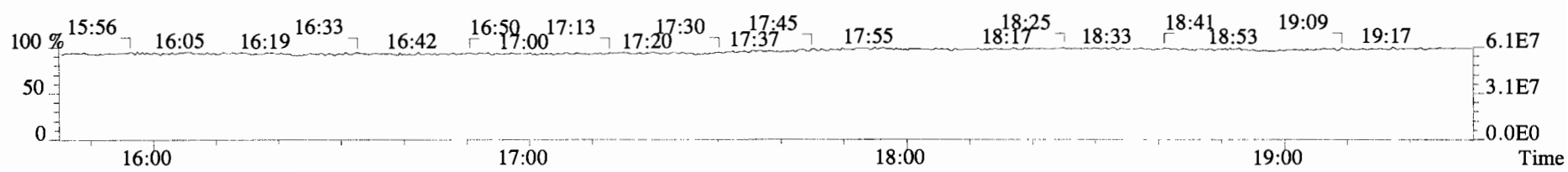
200.0795 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7236.0,0.00%,F,F)



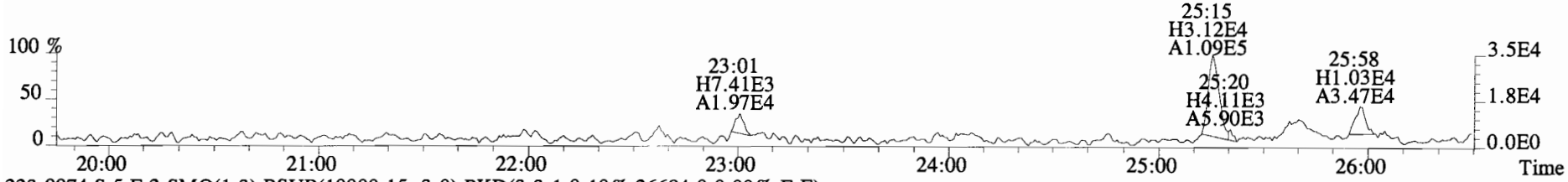
202.0766 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,54900.0,0.00%,F,F)



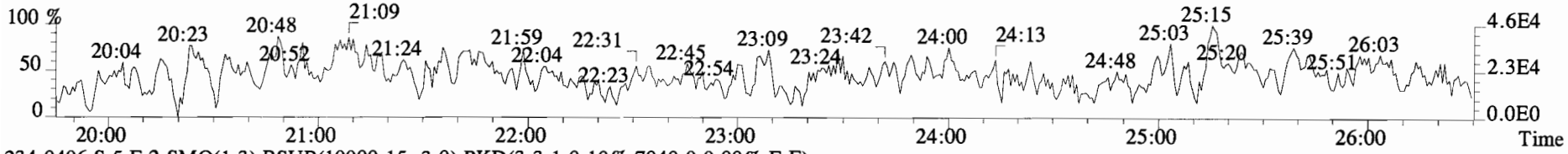
180.9880 S:5



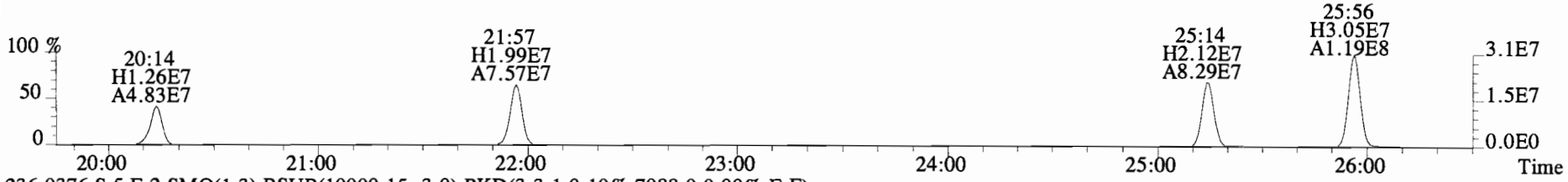
File:141024E2 #1-757 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
222.0003 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3688.0,0.00%,F,F)



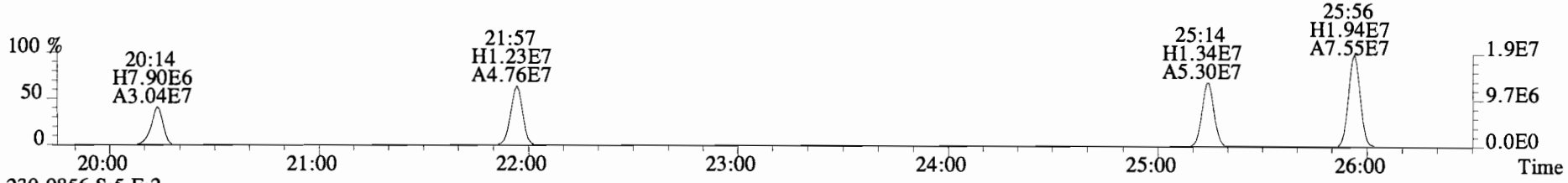
223.9974 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26684.0,0.00%,F,F)



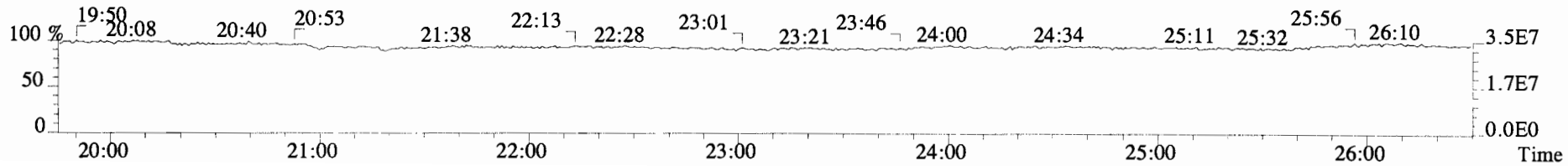
234.0406 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7040.0,0.00%,F,F)



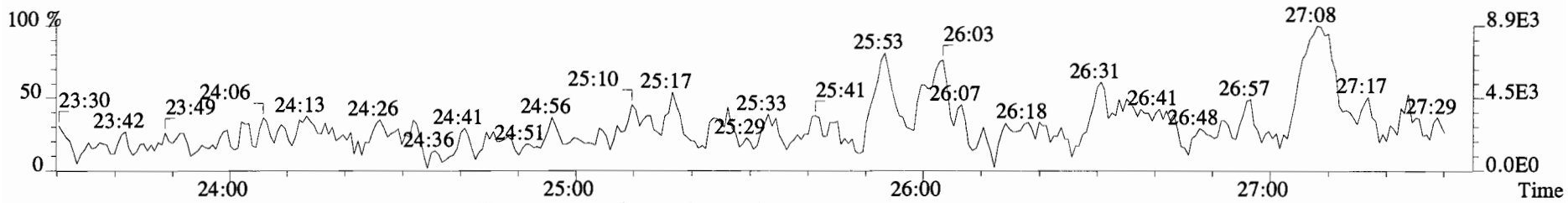
236.0376 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7088.0,0.00%,F,F)



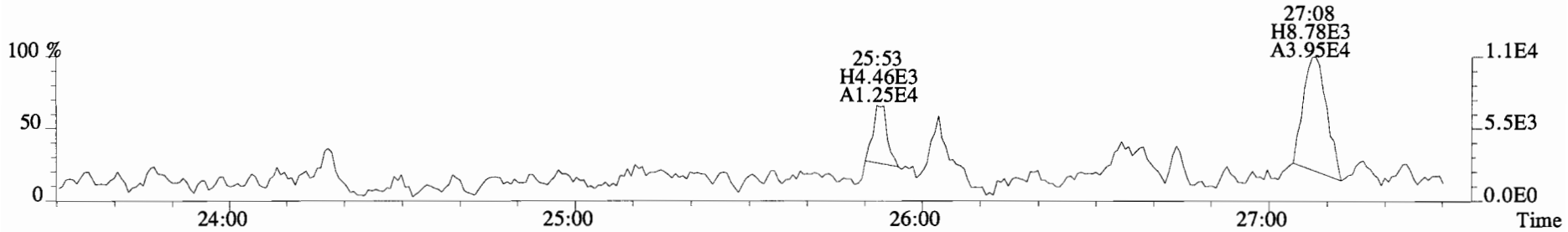
230.9856 S:5 F:2



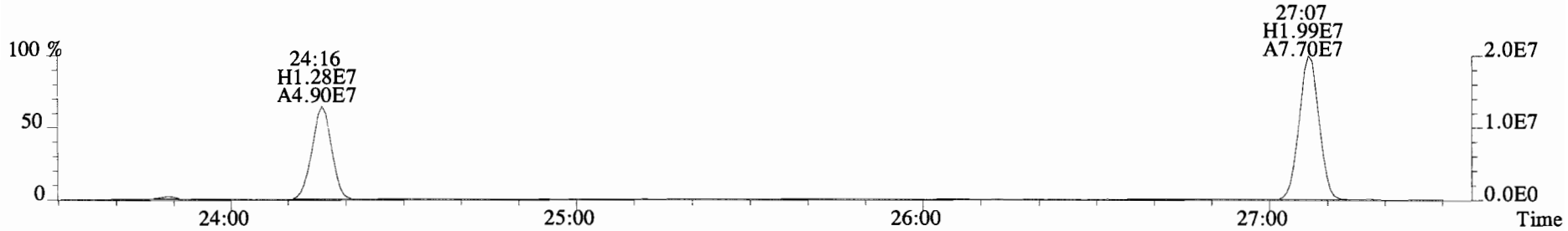
File:141024E2 #1-757 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
255.9613 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2996.0,0.00%,F,F)



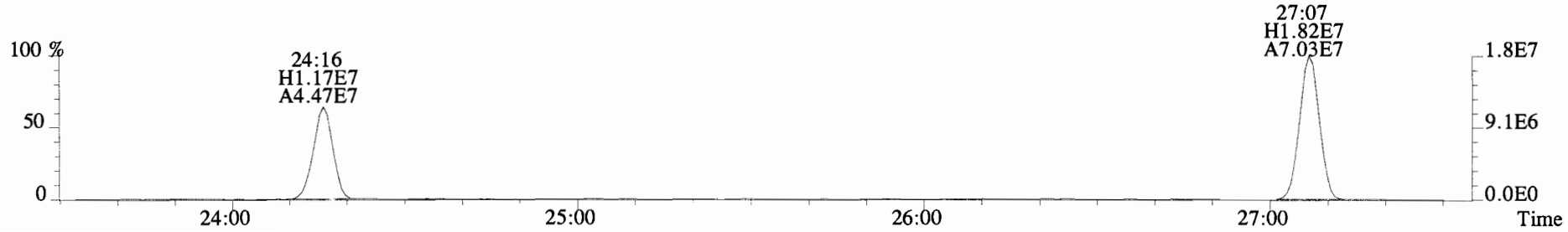
257.9584 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2260.0,0.00%,F,F)

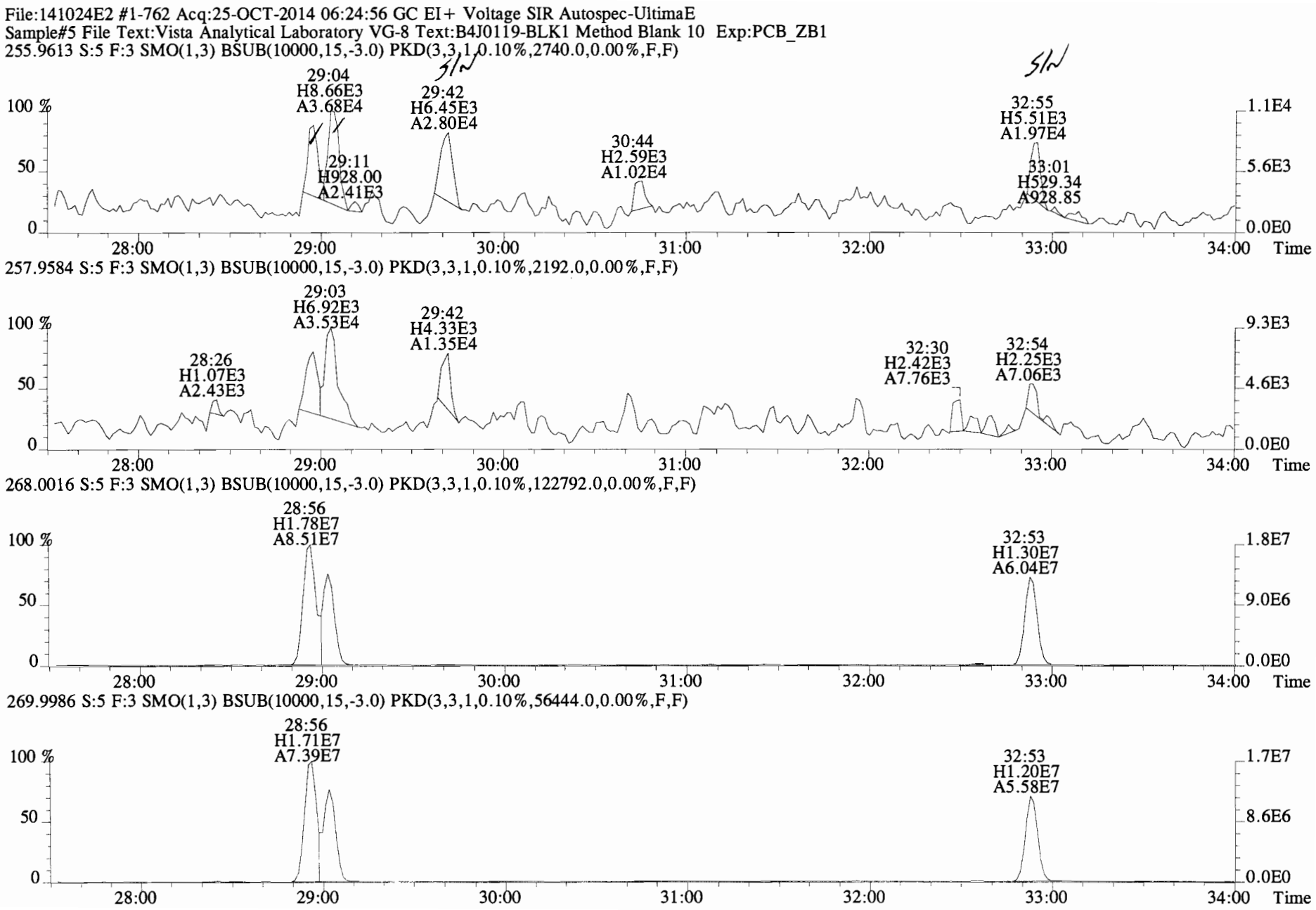


268.0016 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,85252.0,0.00%,F,F)

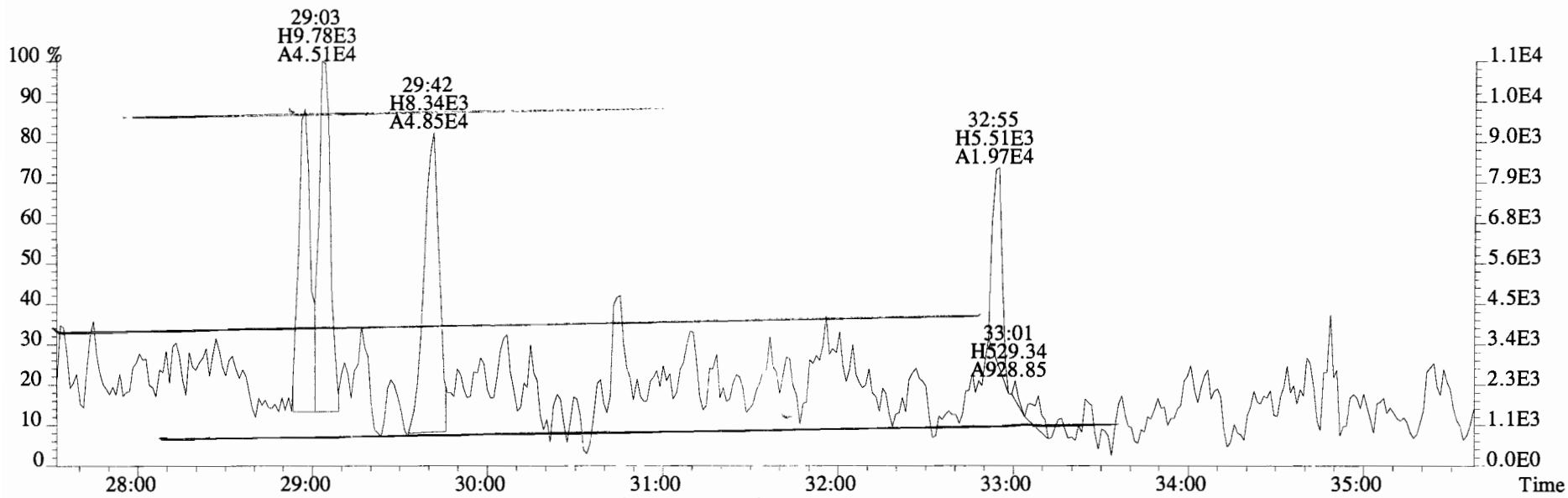


269.9986 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,40568.0,0.00%,F,F)

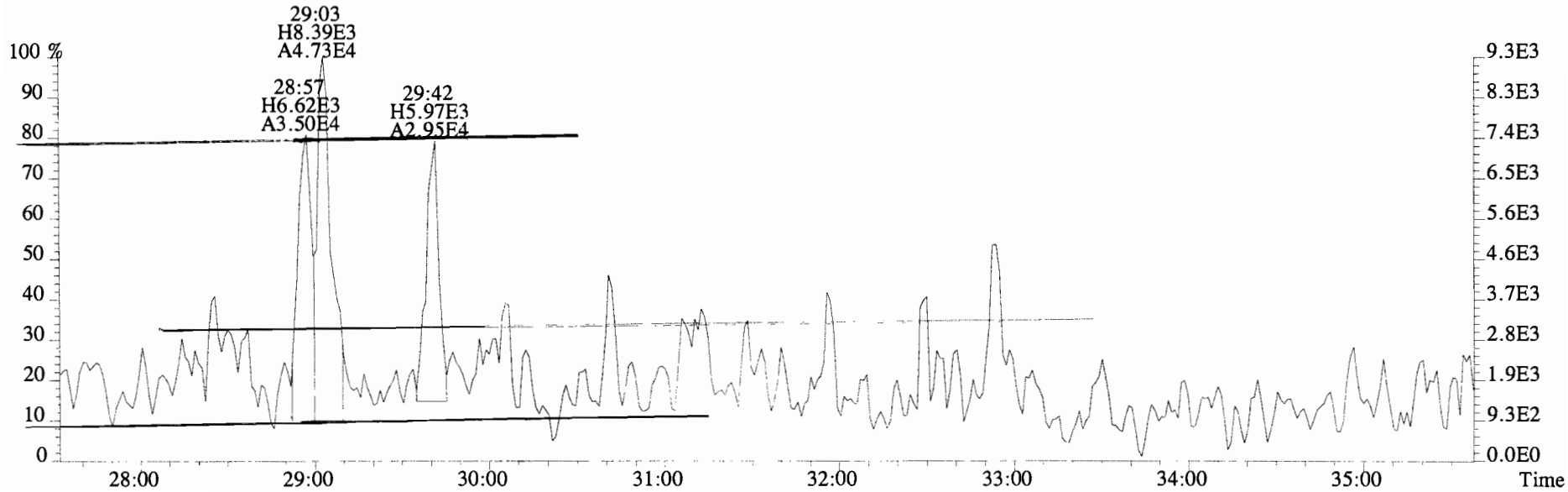



File:141024E2 #1-762 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
255.9613 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2740.0,0.00%,F,F)
29:04 H8.66E3 A3.68E4
29:11 H928.00 A2.41E3
29:42 H6.45E3 A2.80E4
30:44 H2.59E3 A1.02E4
32:55 H5.51E3 A1.97E4
33:01 H529.34 A928.85
S/N
S/N
100 %
50
0
1.1E4
5.6E3
0.0E0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
Time
257.9584 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2192.0,0.00%,F,F)
28:26 H1.07E3 A2.43E3
29:03 H6.92E3 A3.53E4
29:42 H4.33E3 A1.35E4
32:30 H2.42E3 A7.76E3
32:54 H2.25E3 A7.06E3
100 %
50
0
9.3E3
4.6E3
0.0E0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
Time
268.0016 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,122792.0,0.00%,F,F)
28:56 H1.78E7 A8.51E7
32:53 H1.30E7 A6.04E7
100 %
50
0
1.8E7
9.0E6
0.0E0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
Time
269.9986 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,56444.0,0.00%,F,F)
28:56 H1.71E7 A7.39E7
32:53 H1.20E7 A5.58E7
100 %
50
0
1.7E7
8.6E6
0.0E0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
Time

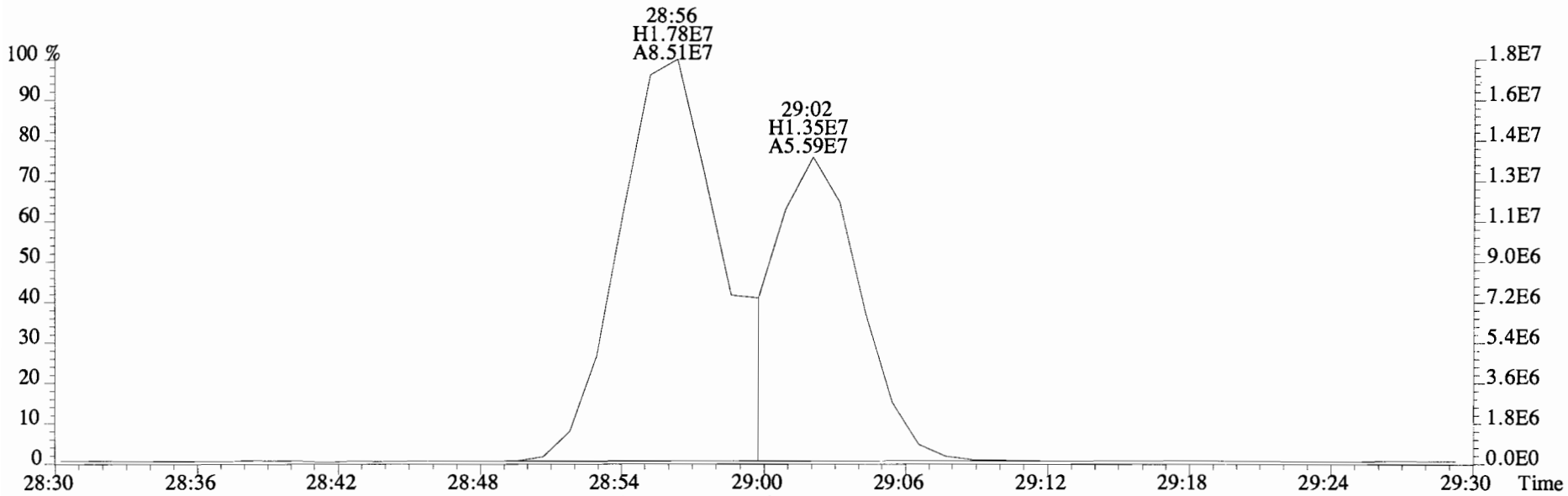
File:141024E2 #1-762 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
255.9613 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2740.0,0.00%,F,F)



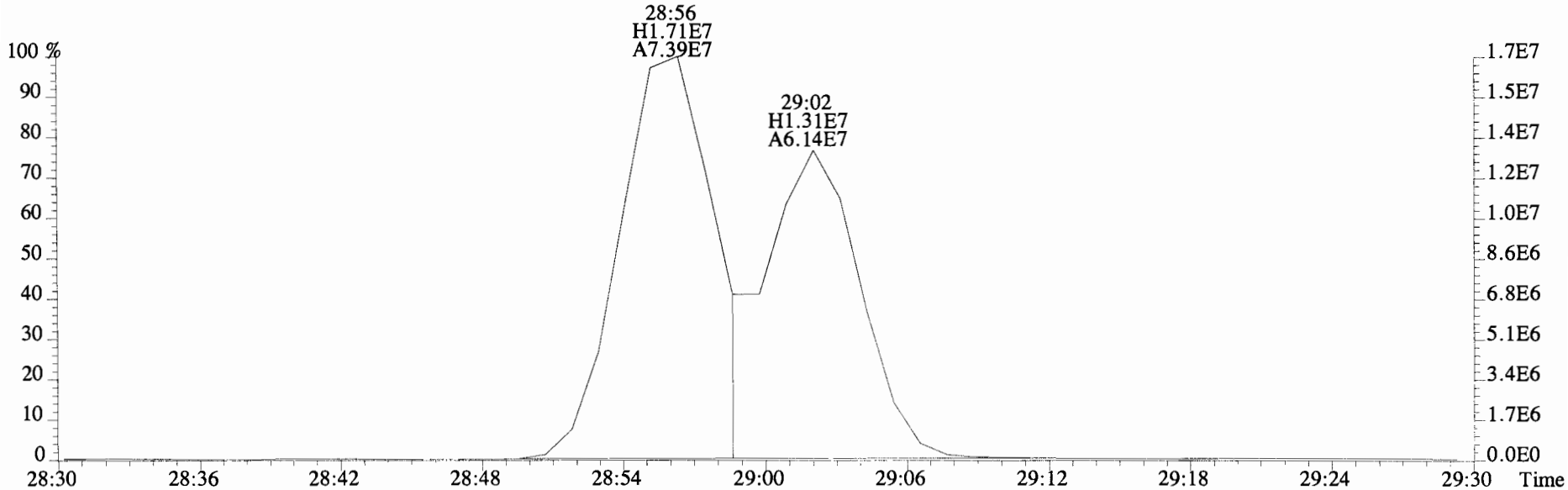
257.9584 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2192.0,0.00%,F,F)



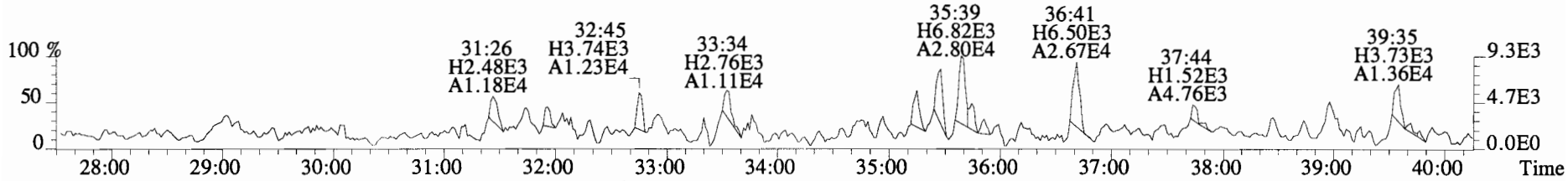
File:141024E2 #1-762 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
268.0016 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,122792.0,0.00%,F,F)



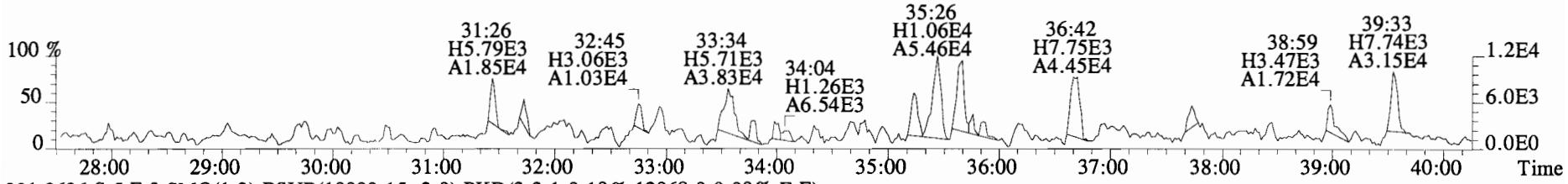
269.9986 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,56444.0,0.00%,F,F)



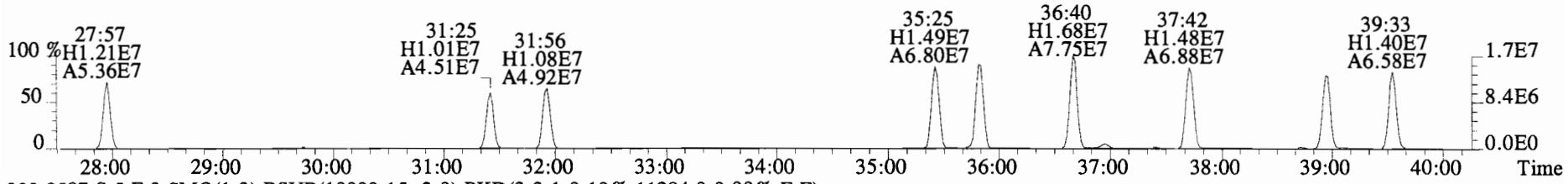
File:141024E2 #1-762 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2008.0,0.00%,F,F)



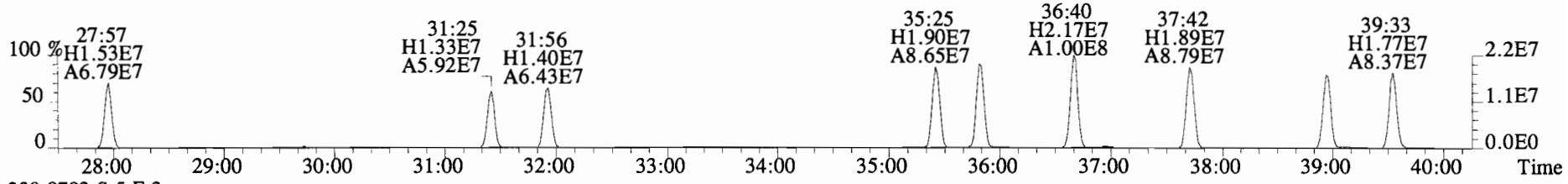
291.9194 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)



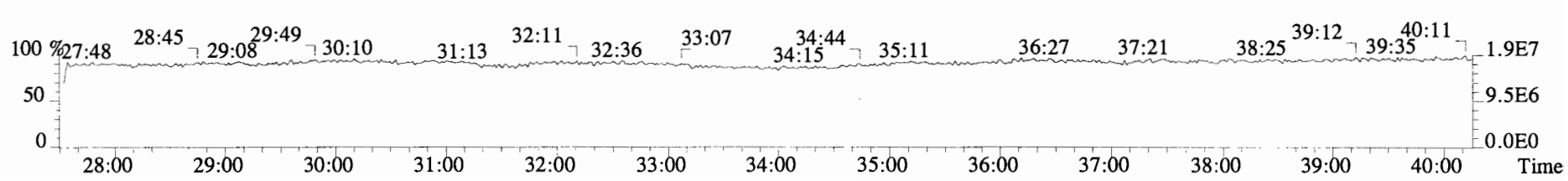
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12068.0,0.00%,F,F)



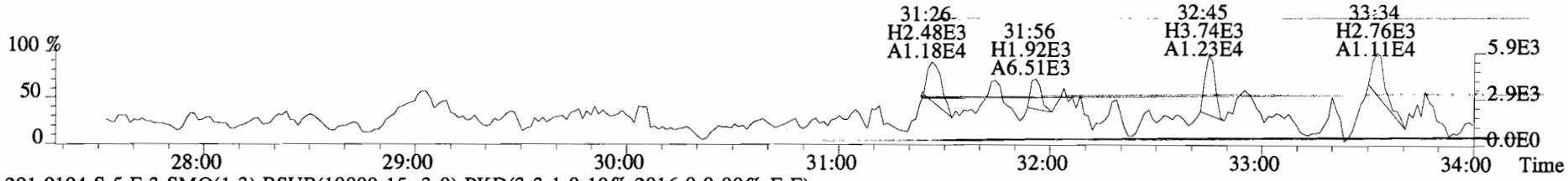
303.9597 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11284.0,0.00%,F,F)



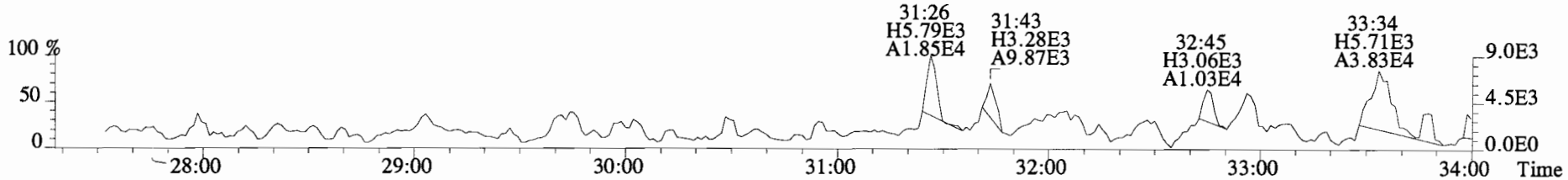
330.9792 S:5 F:3



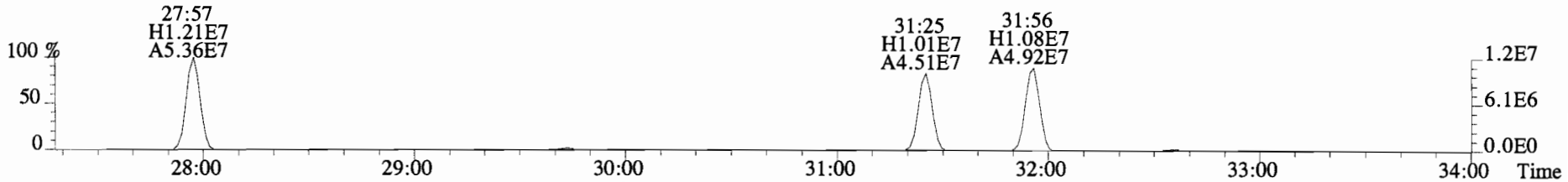
File:141024E2 #1-762 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2008.0,0.00%,F,F)



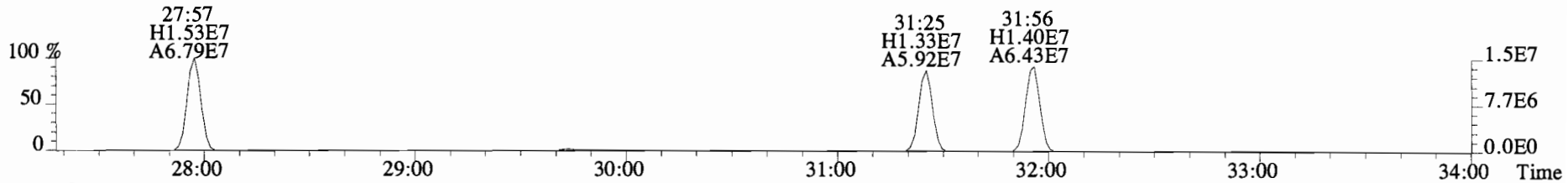
291.9194 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)



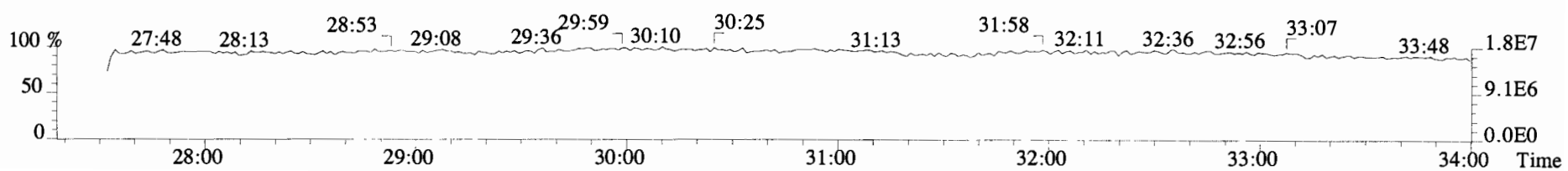
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12068.0,0.00%,F,F)

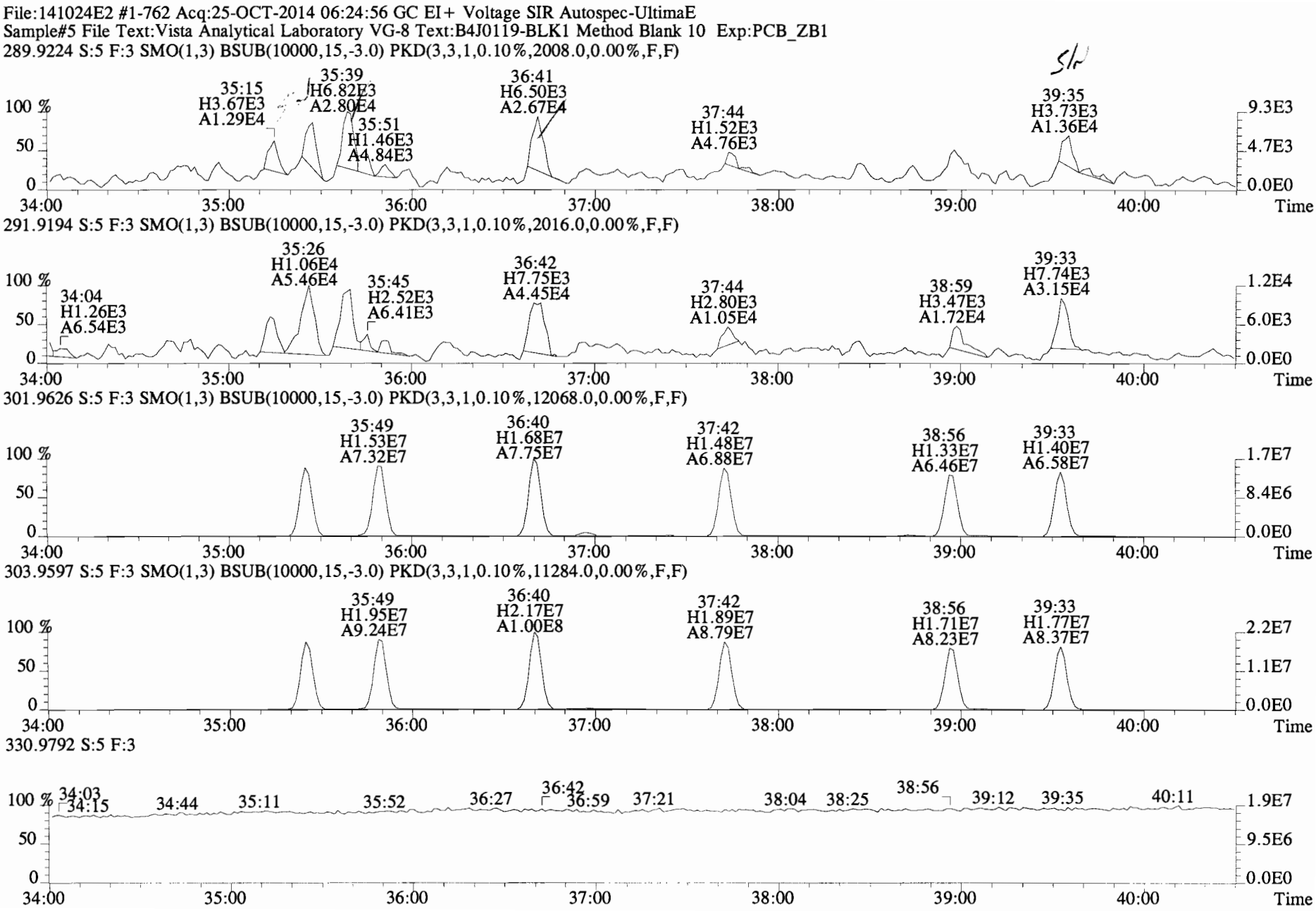


303.9597 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11284.0,0.00%,F,F)

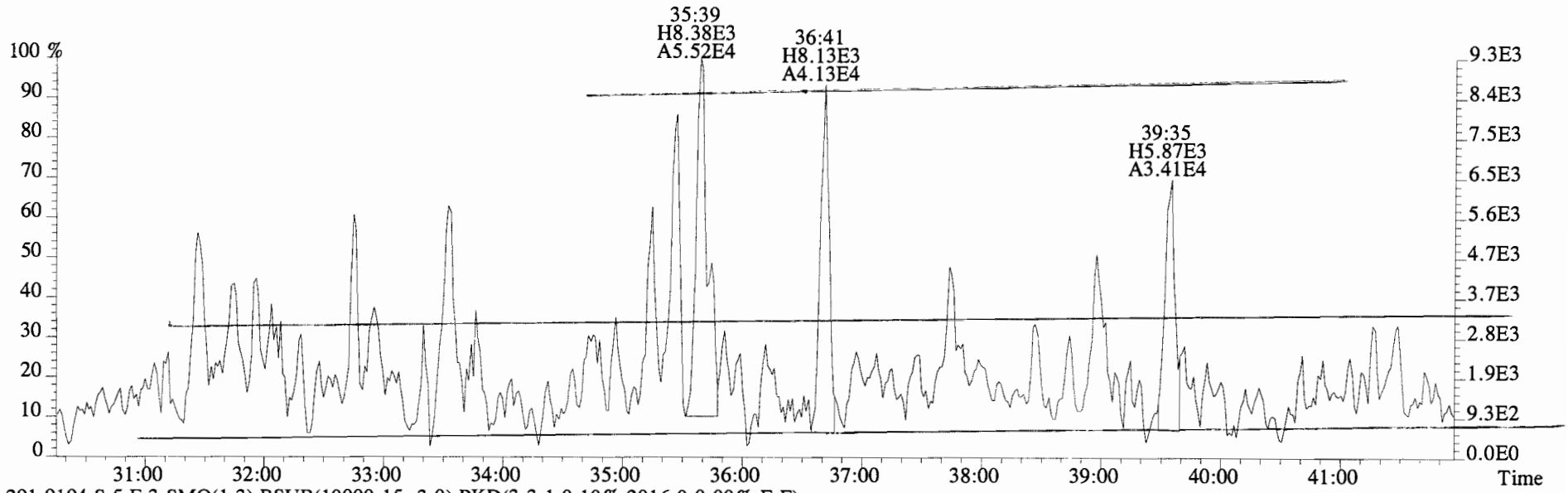


330.9792 S:5 F:3

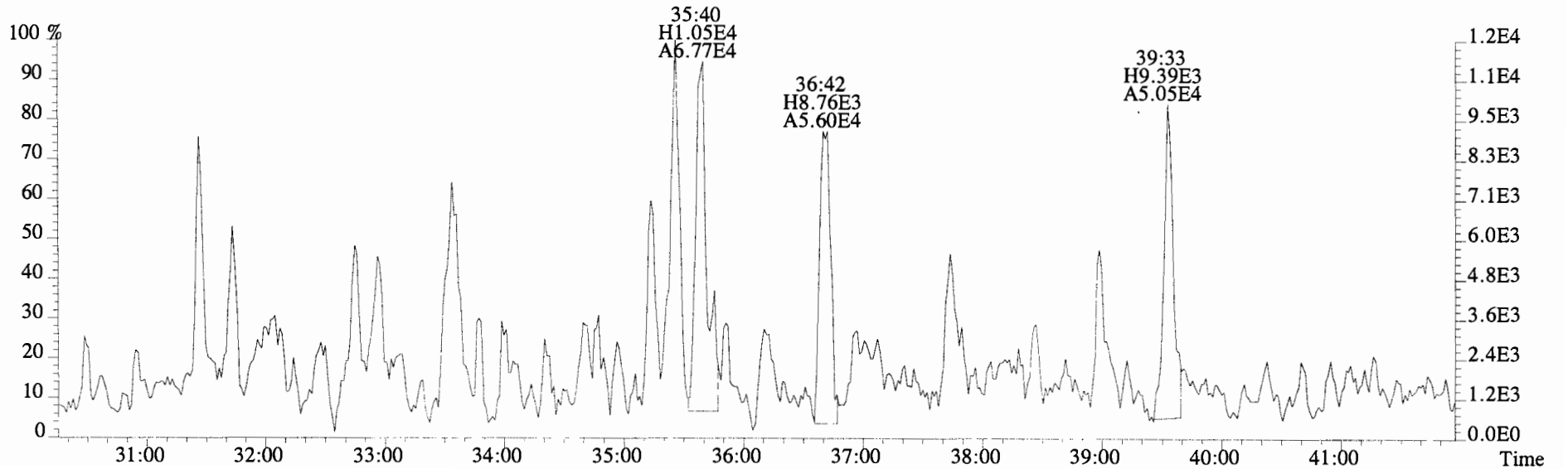


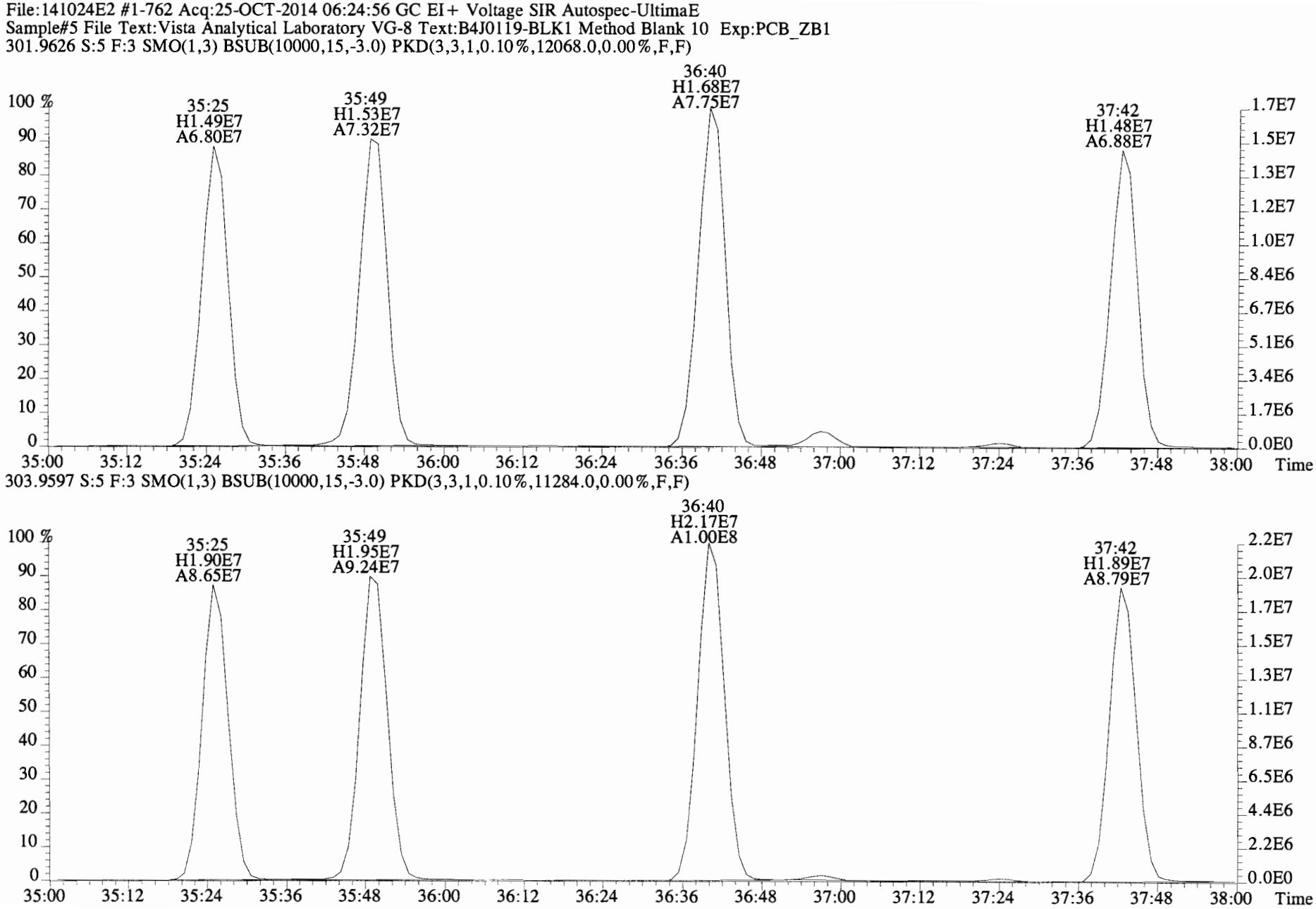

File:141024E2 #1-762 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2008.0,0.00%,F,F)
35:15 H3.67E3 A1.29E4
35:39 H6.82E3 A2.80E4
35:51 H1.46E3 A4.84E3
36:41 H6.50E3 A2.67E4
37:44 H1.52E3 A4.76E3
39:35 H3.73E3 A1.36E4
291.9194 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)
34:04 H1.26E3 A6.54E3
35:26 H1.06E4 A5.46E4
35:45 H2.52E3 A6.41E3
36:42 H7.75E3 A4.45E4
37:44 H2.80E3 A1.05E4
38:59 H3.47E3 A1.72E4
39:33 H7.74E3 A3.15E4
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12068.0,0.00%,F,F)
35:49 H1.53E7 A7.32E7
36:40 H1.68E7 A7.75E7
37:42 H1.48E7 A6.88E7
38:56 H1.33E7 A6.46E7
39:33 H1.40E7 A6.58E7
303.9597 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11284.0,0.00%,F,F)
35:49 H1.95E7 A9.24E7
36:40 H2.17E7 A1.00E8
37:42 H1.89E7 A8.79E7
38:56 H1.71E7 A8.23E7
39:33 H1.77E7 A8.37E7
330.9792 S:5 F:3
34:03
34:15
34:44
35:11
35:52
36:27
36:42
36:59
37:21
38:04
38:25
38:56
39:12
39:35
40:11
100 %
50
0
34:00
35:00
36:00
37:00
38:00
39:00
40:00
Time
9.3E3
4.7E3
0.0E0
1.2E4
6.0E3
1.7E7
8.4E6
2.2E7
1.1E7
1.9E7
9.5E6

File:141024E2 #1-762 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2008.0,0.00%,F,F)

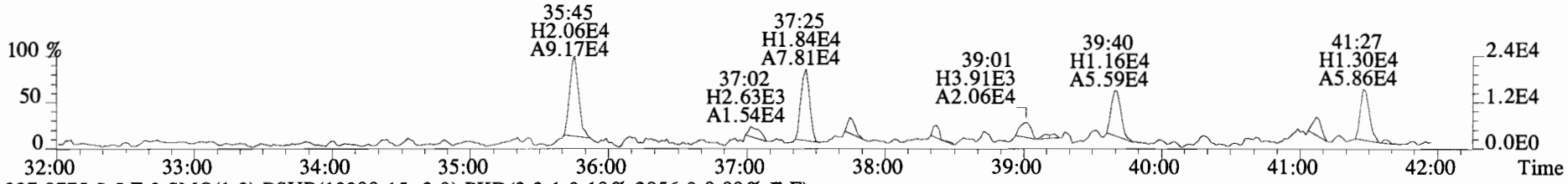


291.9194 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)

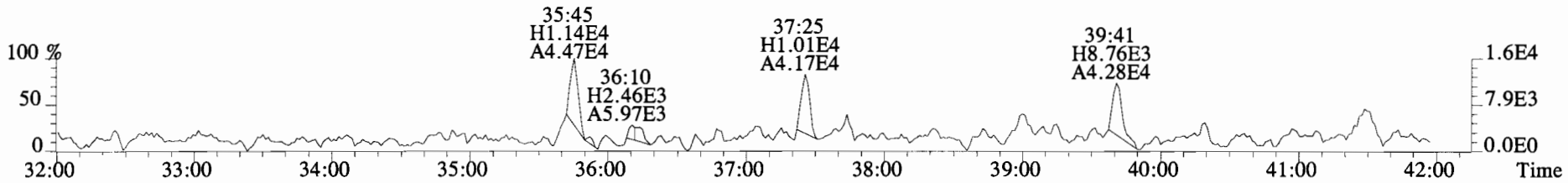



File:141024E2 #1-762 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12068.0,0.00%,F,F)
35:25 H1.49E7 A6.80E7
35:49 H1.53E7 A7.32E7
36:40 H1.68E7 A7.75E7
37:42 H1.48E7 A6.88E7
303.9597 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11284.0,0.00%,F,F)
35:25 H1.90E7 A8.65E7
35:49 H1.95E7 A9.24E7
36:40 H2.17E7 A1.00E8
37:42 H1.89E7 A8.79E7
100 %
90
80
70
60
50
40
30
20
10
0
1.7E7
1.5E7
1.3E7
1.2E7
1.0E7
8.4E6
6.7E6
5.1E6
3.4E6
1.7E6
0.0E0
2.2E7
2.0E7
1.7E7
1.5E7
1.3E7
1.1E7
8.7E6
6.5E6
4.4E6
2.2E6
0.0E0
35:00
35:12
35:24
35:36
35:48
36:00
36:12
36:24
36:36
36:48
37:00
37:12
37:24
37:36
37:48
38:00
Time

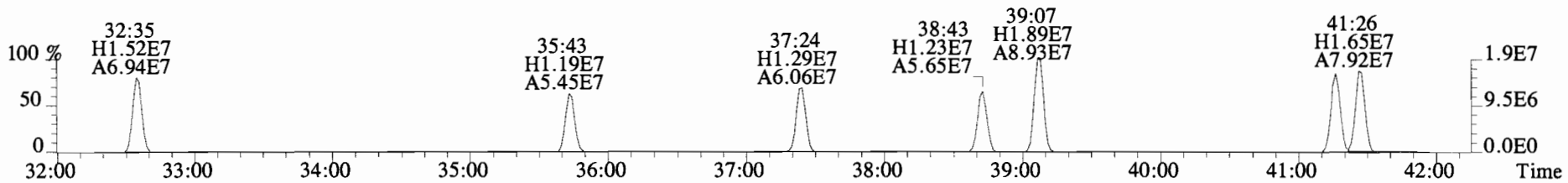
File:141024E2 #1-762 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2132.0,0.00%,F,F)



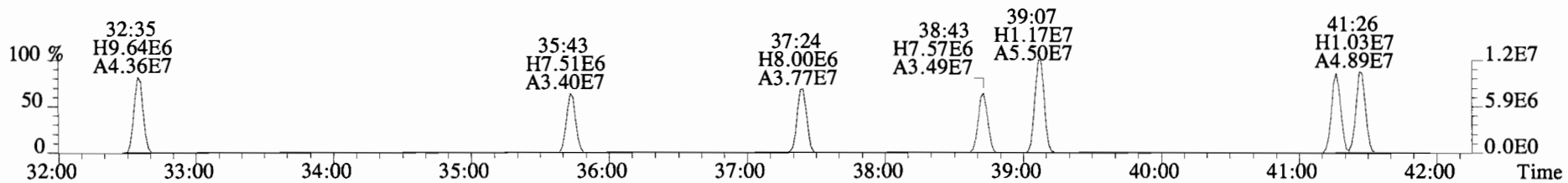
327.8775 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2856.0,0.00%,F,F)



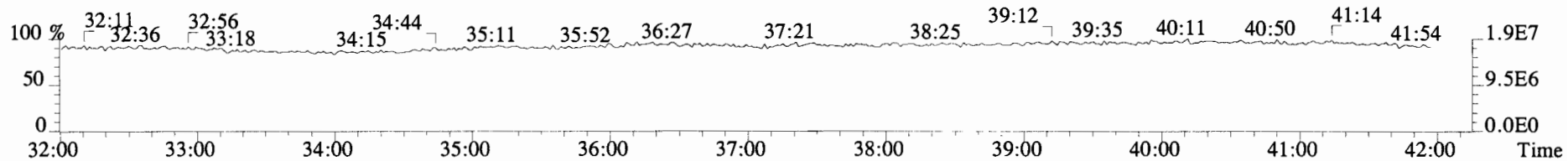
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1964.0,0.00%,F,F)



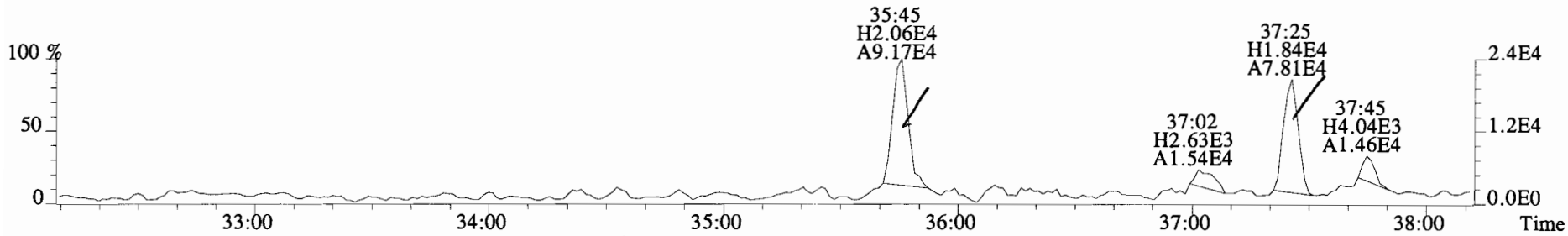
339.9177 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2544.0,0.00%,F,F)



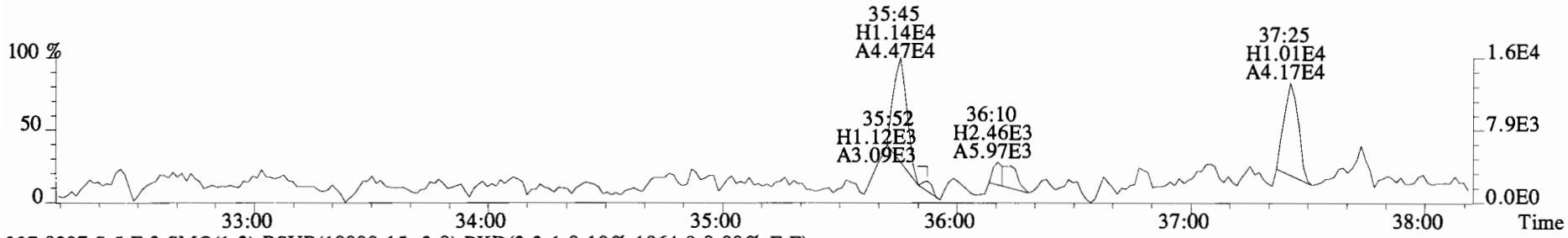
330.9792 S:5 F:3



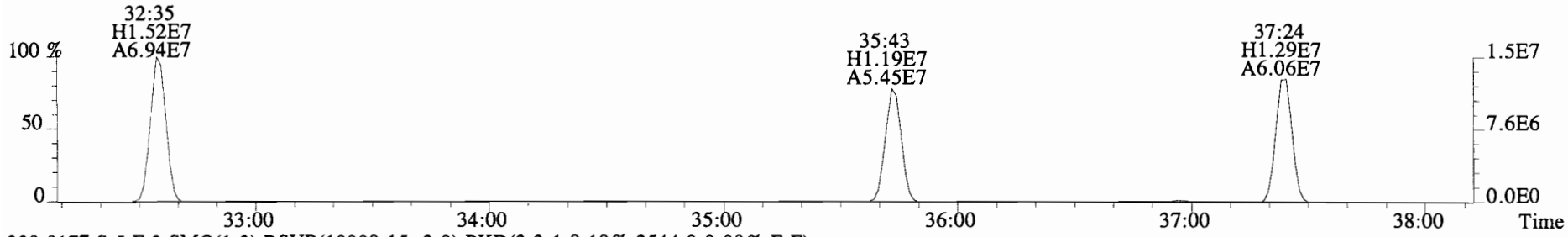
File:141024E2 #1-762 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2132.0,0.00%,F,F)



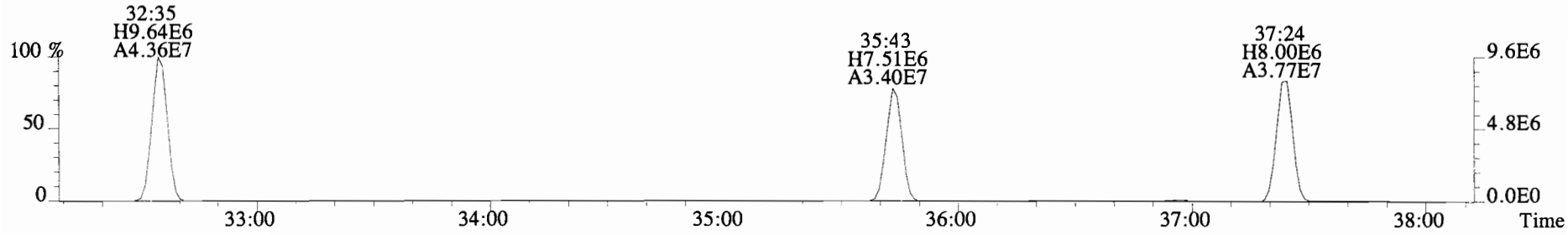
327.8775 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2856.0,0.00%,F,F)

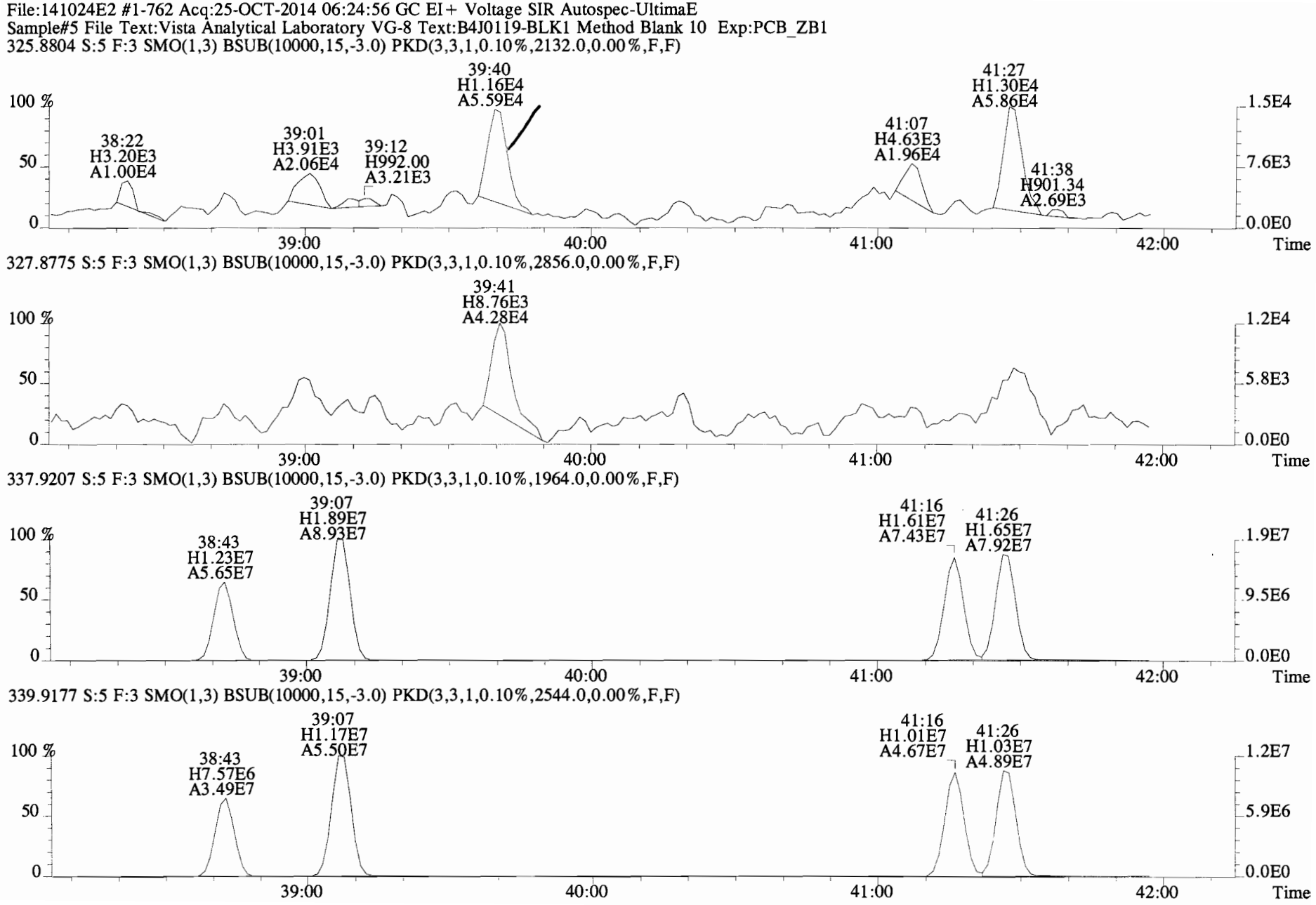


337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1964.0,0.00%,F,F)

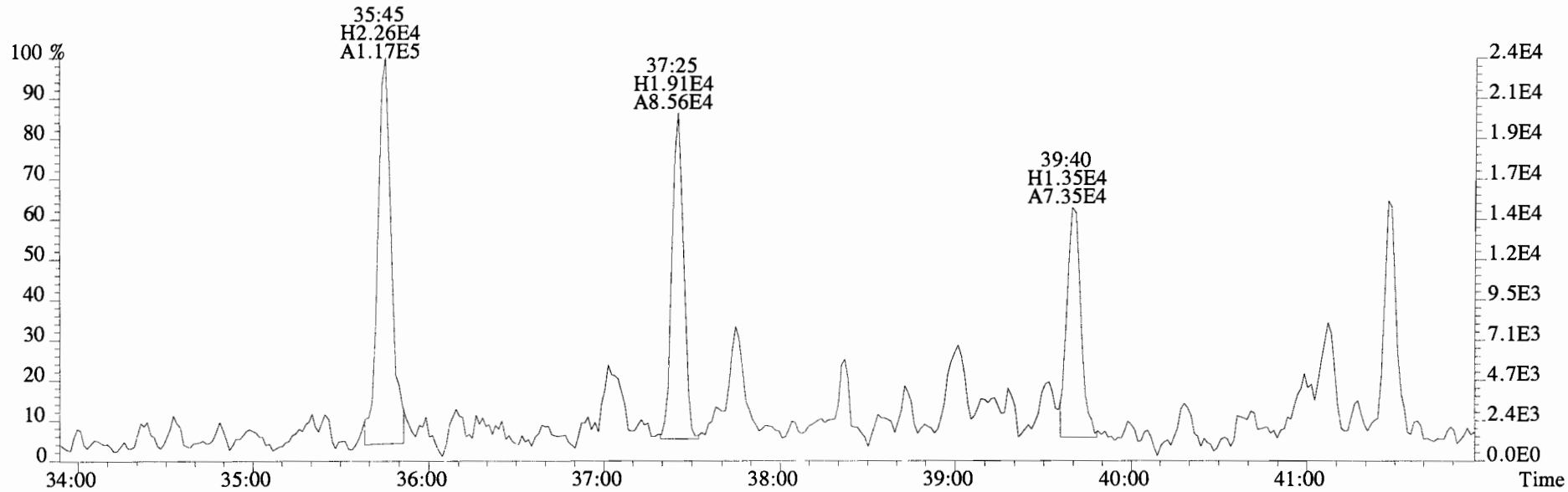


339.9177 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2544.0,0.00%,F,F)

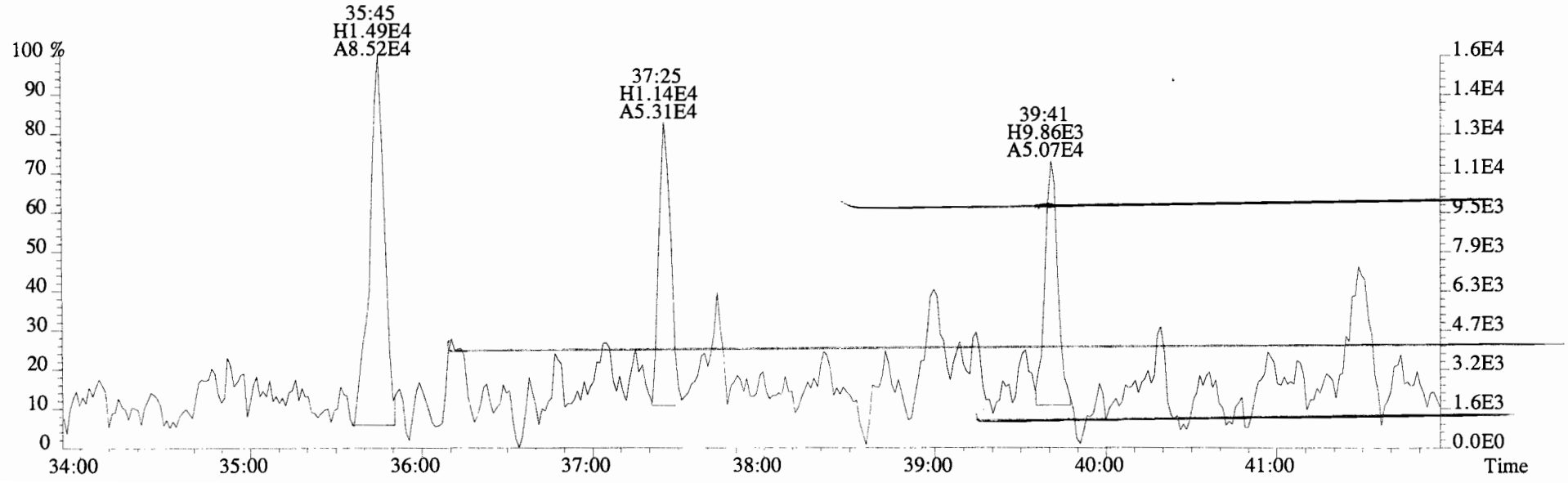



File:141024E2 #1-762 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2132.0,0.00%,F,F)
38:22 H3.20E3 A1.00E4
39:01 H3.91E3 A2.06E4
39:12 H992.00 A3.21E3
39:40 H1.16E4 A5.59E4
41:07 H4.63E3 A1.96E4
41:27 H1.30E4 A5.86E4
41:38 H901.34 A2.69E3
100 %
50
0
1.5E4
7.6E3
0.0E0
39:00
40:00
41:00
42:00
Time
327.8775 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2856.0,0.00%,F,F)
39:41 H8.76E3 A4.28E4
1.2E4
5.8E3
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1964.0,0.00%,F,F)
38:43 H1.23E7 A5.65E7
39:07 H1.89E7 A8.93E7
41:16 H1.61E7 A7.43E7
41:26 H1.65E7 A7.92E7
1.9E7
9.5E6
339.9177 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2544.0,0.00%,F,F)
38:43 H7.57E6 A3.49E7
39:07 H1.17E7 A5.50E7
41:16 H1.01E7 A4.67E7
41:26 H1.03E7 A4.89E7
1.2E7
5.9E6

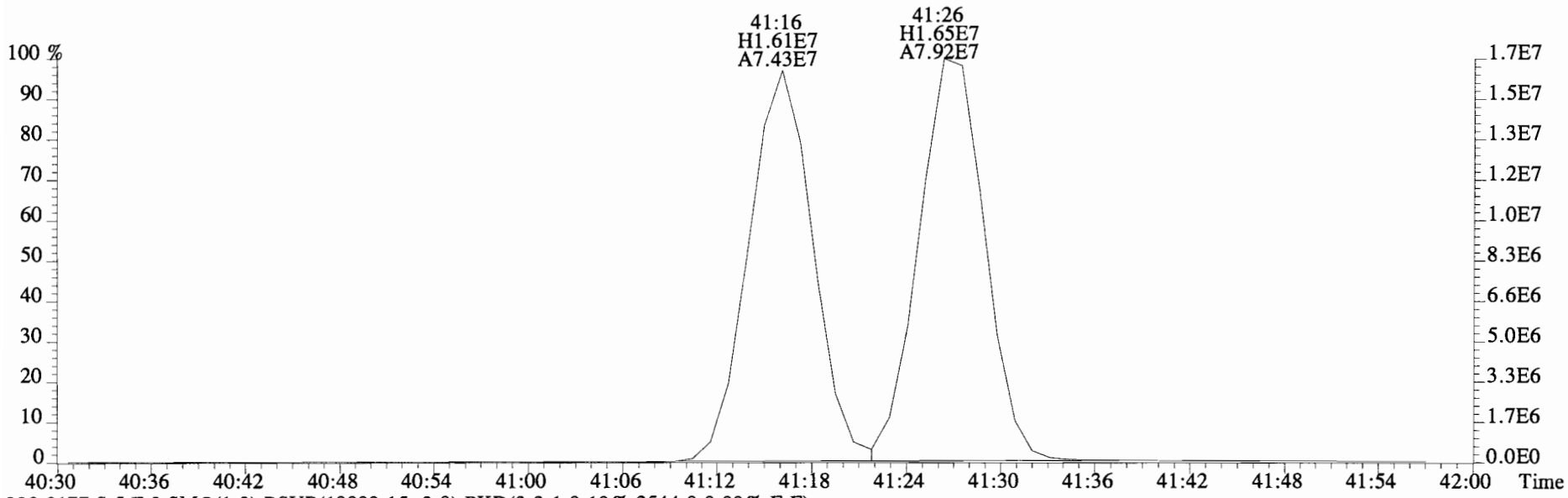
File:141024E2 #1-762 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2132.0,0.00%,F,F)



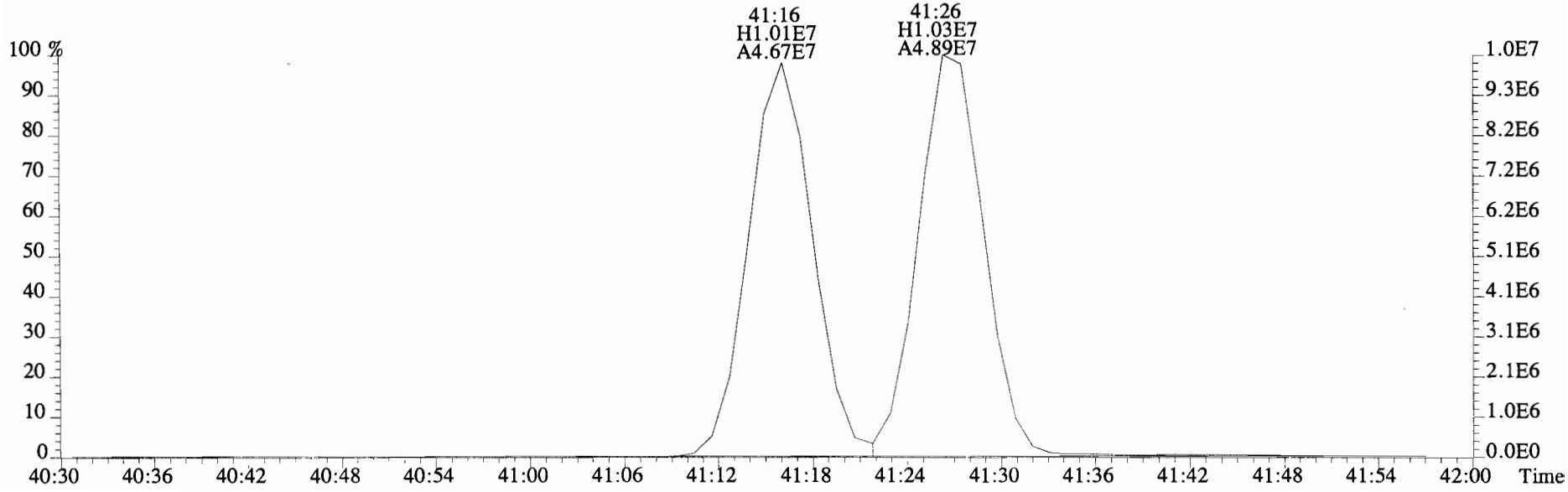
327.8775 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2856.0,0.00%,F,F)

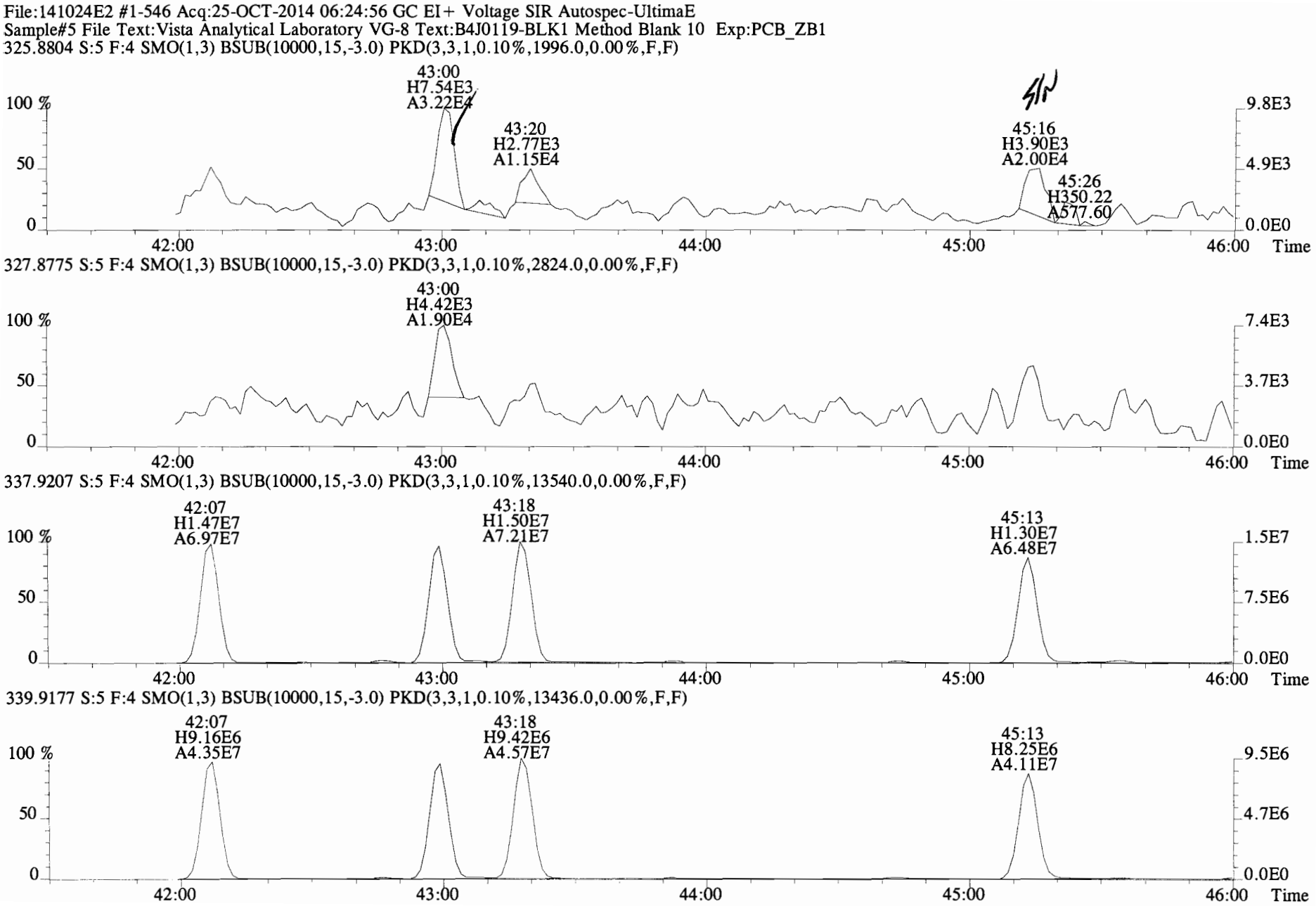


File:141024E2 #1-762 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1964.0,0.00%,F,F)

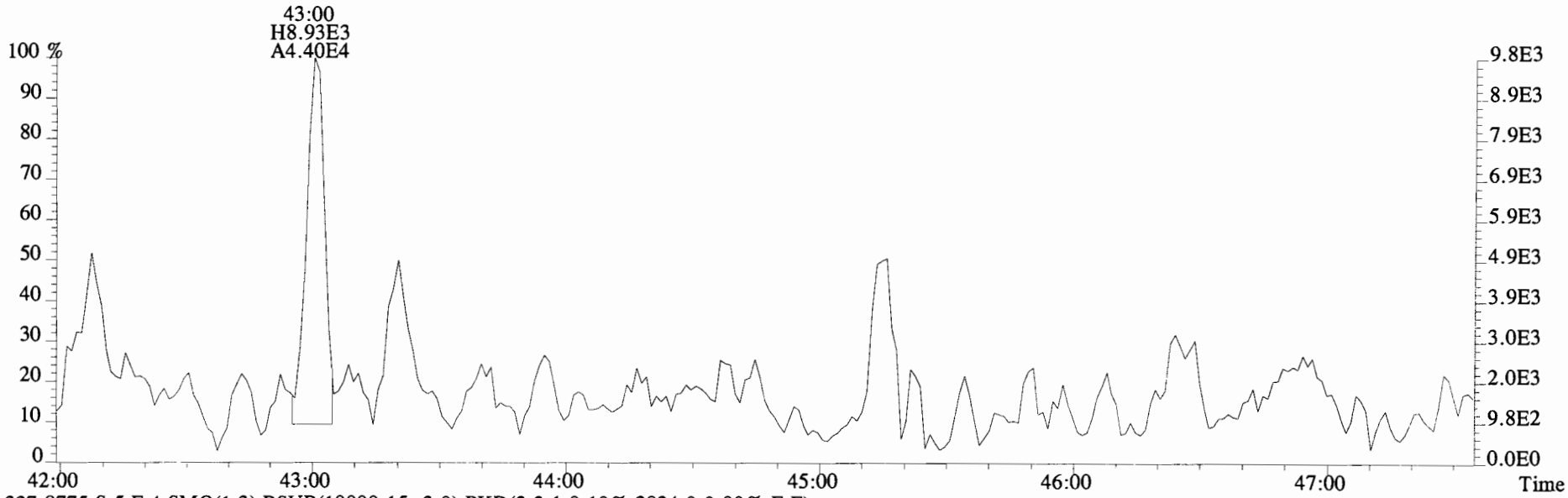


339.9177 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2544.0,0.00%,F,F)

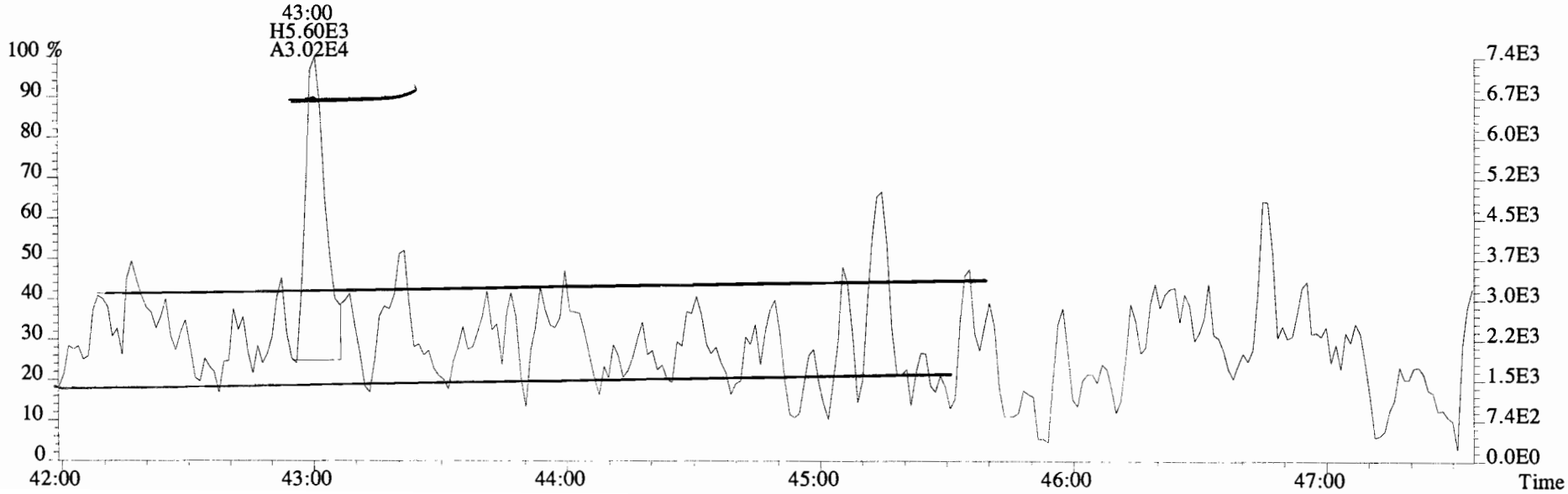



File:141024E2 #1-546 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
325.8804 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1996.0,0.00%,F,F)
43:00
H7.54E3
A3.22E4
43:20
H2.77E3
A1.15E4
45:16
H3.90E3
A2.00E4
45:26
H350.22
A577.60
100 %
50
0
9.8E3
4.9E3
0.0E0
42:00
43:00
44:00
45:00
46:00
Time
327.8775 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2824.0,0.00%,F,F)
43:00
H4.42E3
A1.90E4
100 %
50
0
7.4E3
3.7E3
0.0E0
42:00
43:00
44:00
45:00
46:00
Time
337.9207 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13540.0,0.00%,F,F)
42:07
H1.47E7
A6.97E7
43:18
H1.50E7
A7.21E7
45:13
H1.30E7
A6.48E7
100 %
50
0
1.5E7
7.5E6
0.0E0
42:00
43:00
44:00
45:00
46:00
Time
339.9177 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13436.0,0.00%,F,F)
42:07
H9.16E6
A4.35E7
43:18
H9.42E6
A4.57E7
45:13
H8.25E6
A4.11E7
100 %
50
0
9.5E6
4.7E6
0.0E0
42:00
43:00
44:00
45:00
46:00
Time

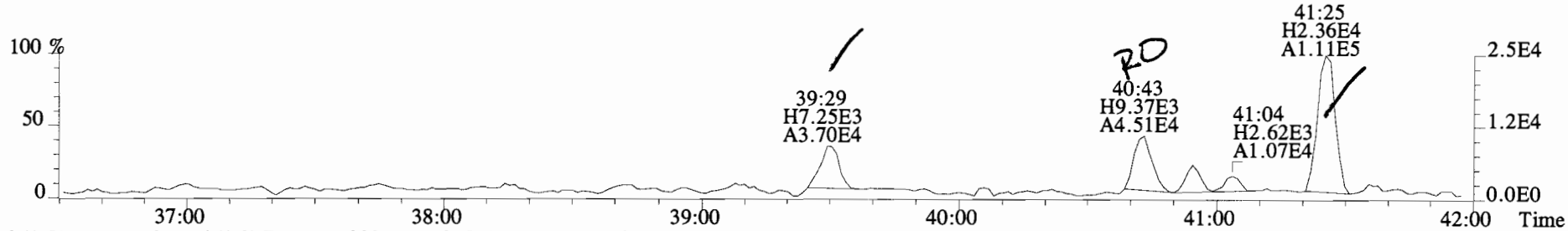
File:141024E2 #1-546 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
325.8804 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1996.0,0.00%,F,F)



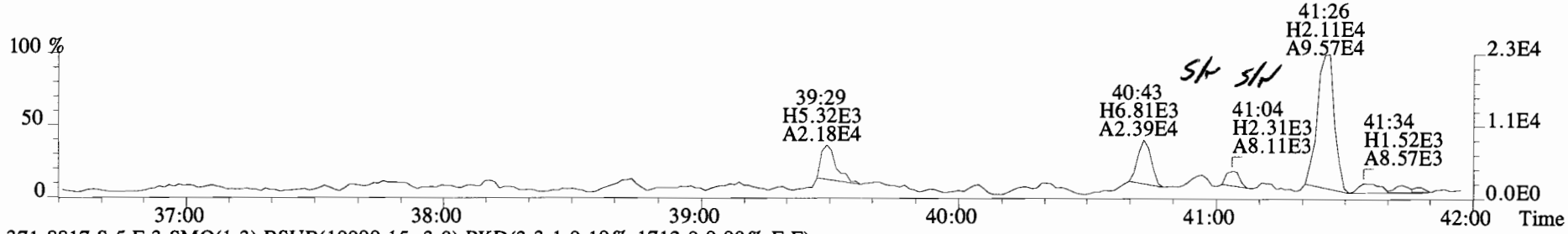
327.8775 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2824.0,0.00%,F,F)



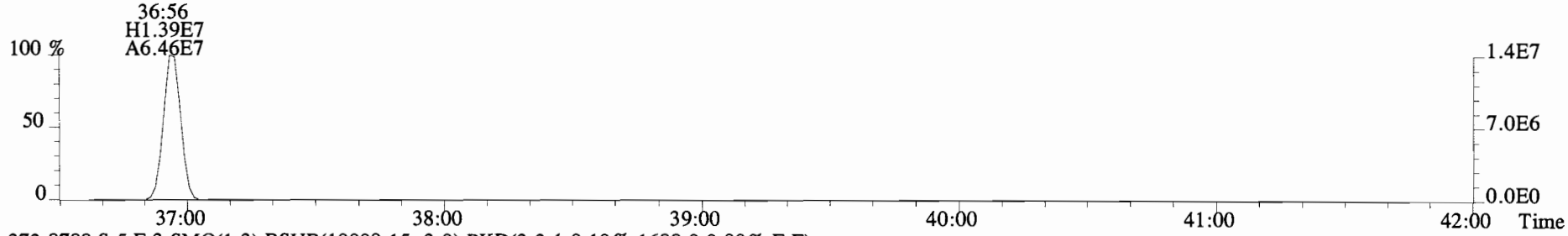
File:141024E2 #1-762 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1728.0,0.00%,F,F)



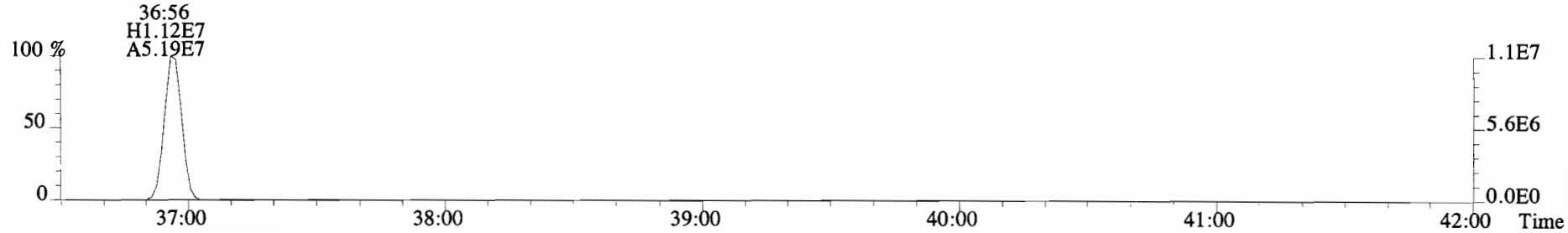
361.8385 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1772.0,0.00%,F,F)



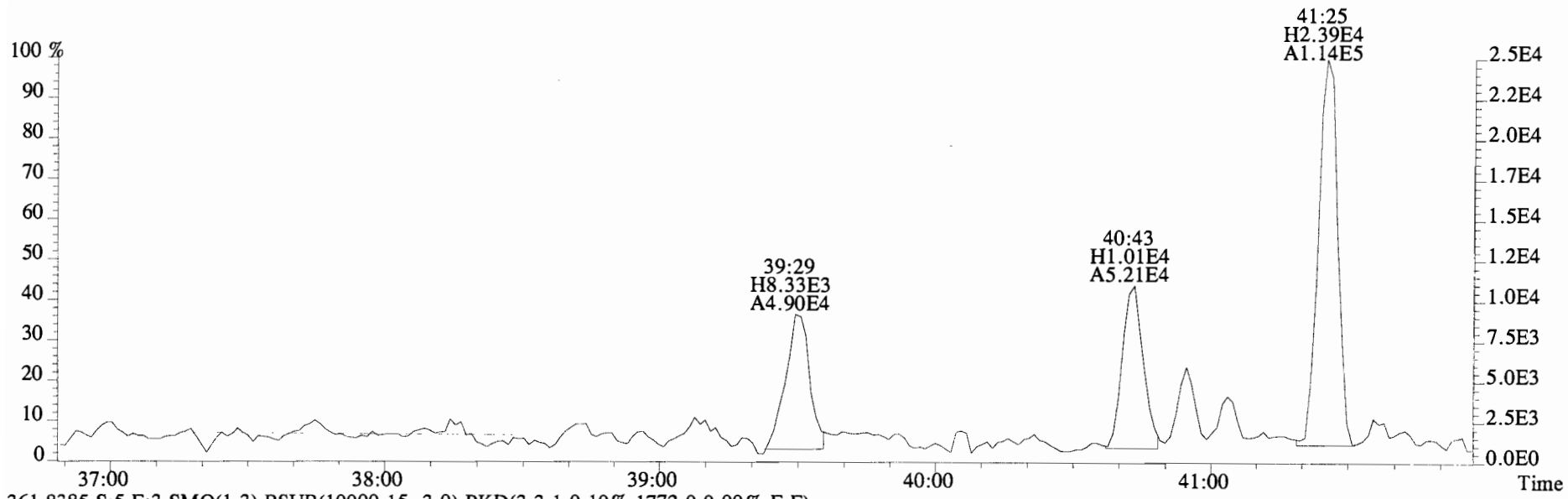
371.8817 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1712.0,0.00%,F,F)



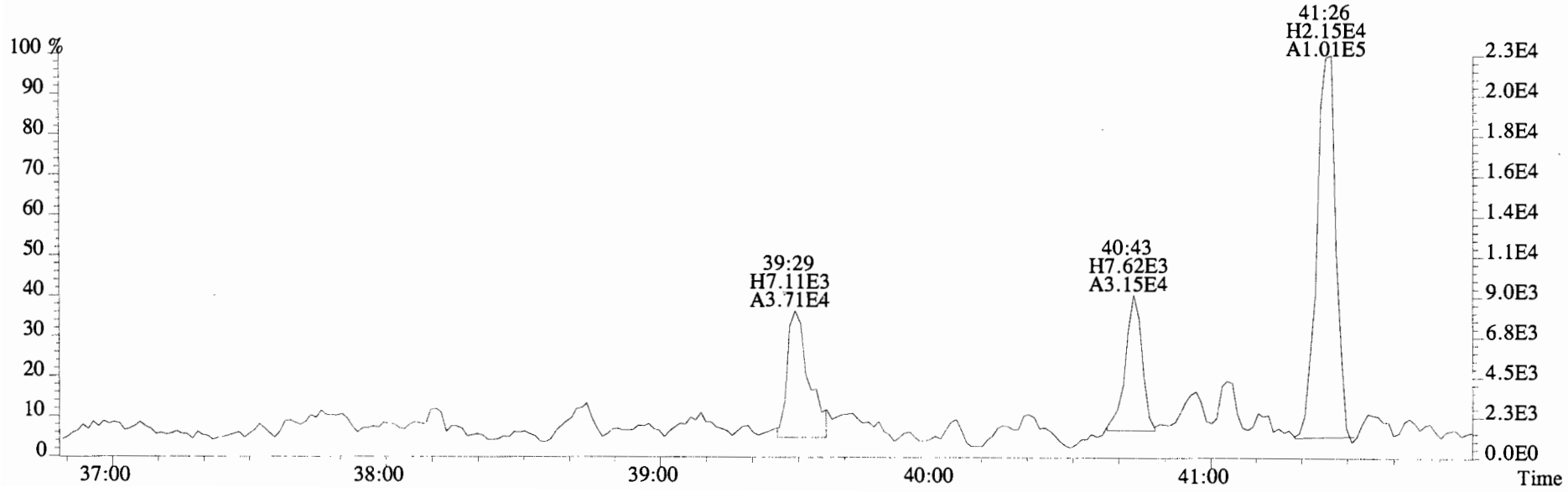
373.8788 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1688.0,0.00%,F,F)

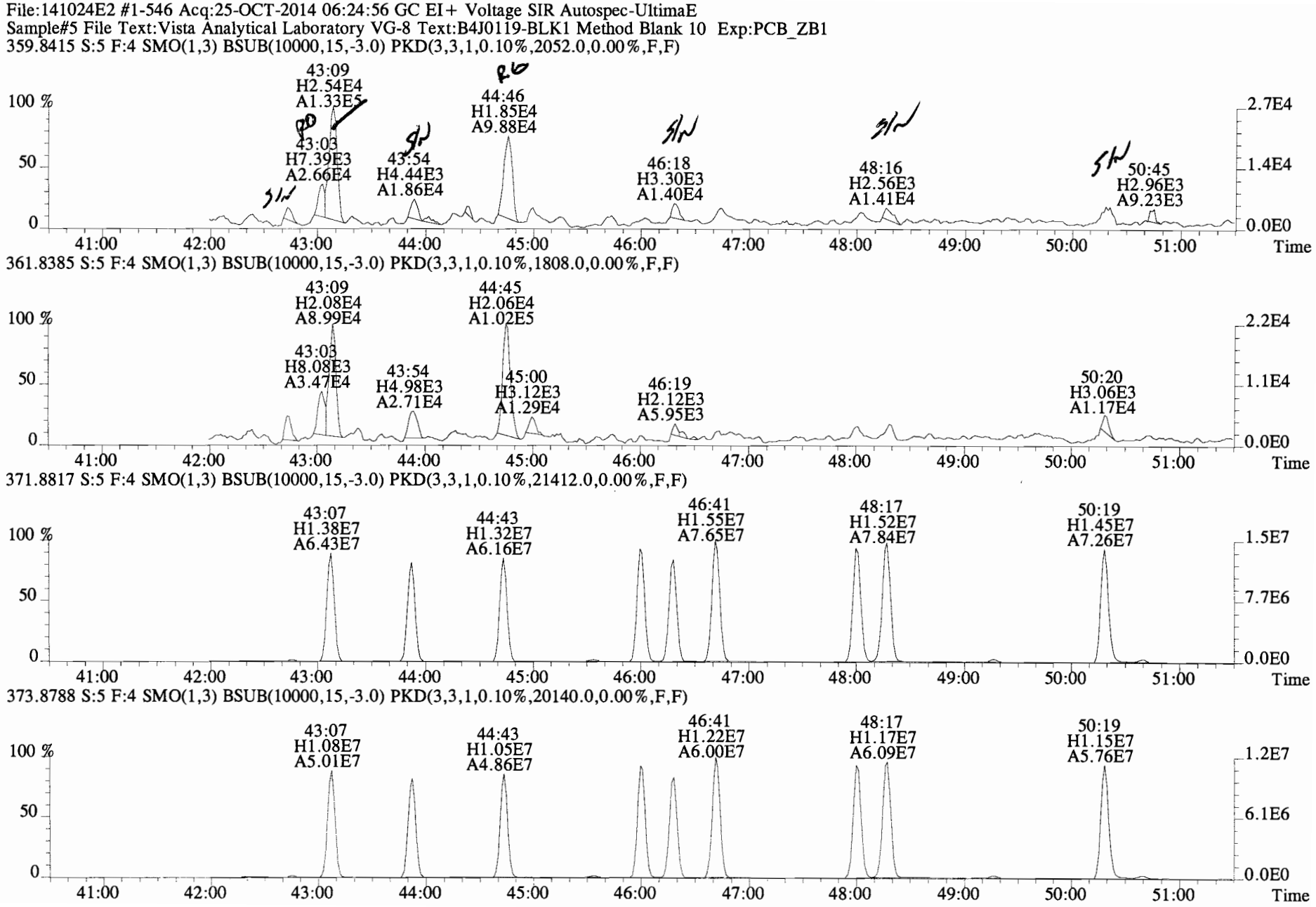


File:141024E2 #1-762 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1728.0,0.00%,F,F)

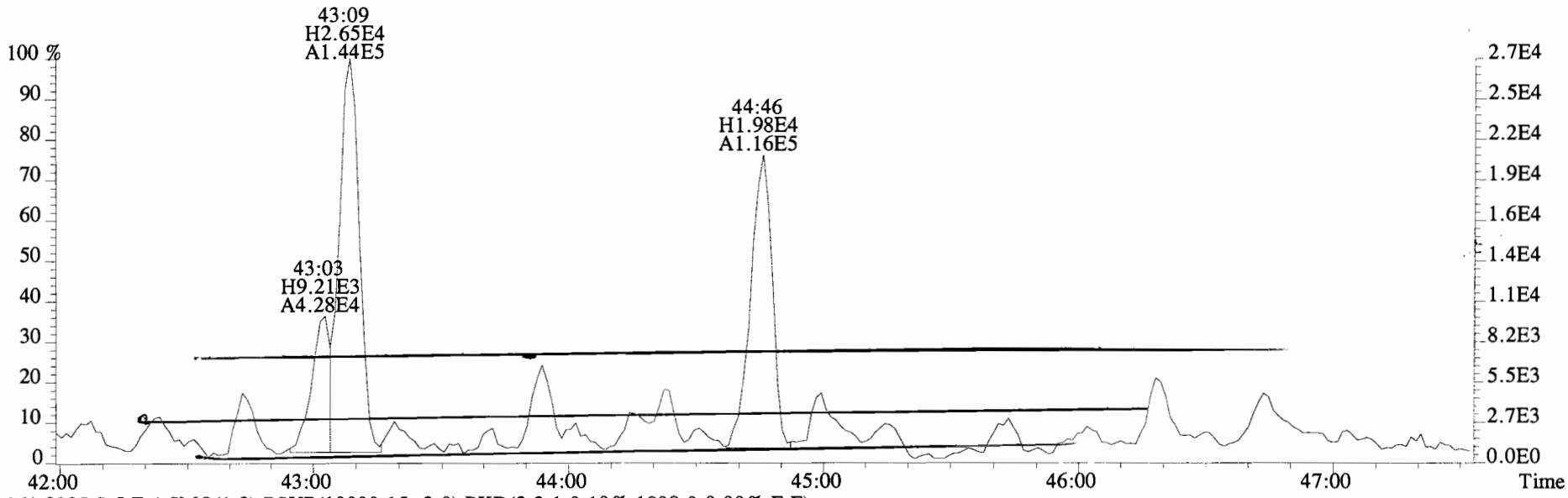


361.8385 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1772.0,0.00%,F,F)

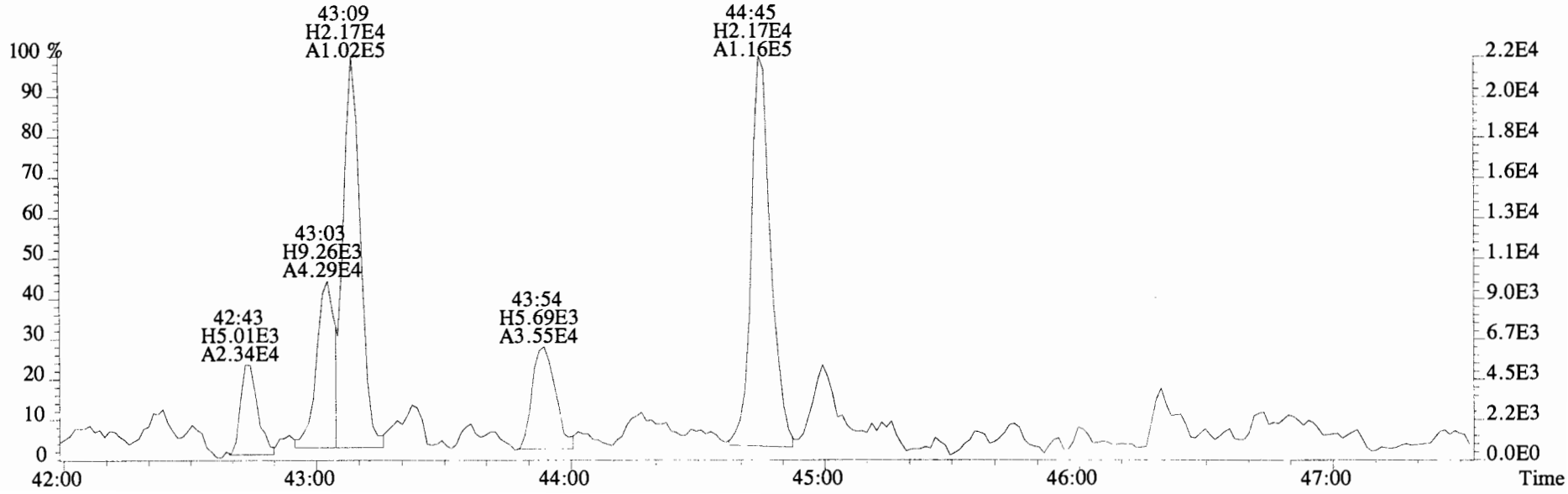



File:141024E2 #1-546 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2052.0,0.00%,F,F)
43:09 H2.54E4 A1.33E5
43:03 H7.39E3 A2.66E4
43:54 H4.44E3 A1.86E4
44:46 H1.85E4 A9.88E4
46:18 H3.30E3 A1.40E4
48:16 H2.56E3 A1.41E4
50:45 H2.96E3 A9.23E3
361.8385 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1808.0,0.00%,F,F)
43:09 H2.08E4 A8.99E4
43:03 H8.08E3 A3.47E4
43:54 H4.98E3 A2.71E4
44:45 H2.06E4 A1.02E5
45:00 H3.12E3 A1.29E4
46:19 H2.12E3 A5.95E3
50:20 H3.06E3 A1.17E4
371.8817 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21412.0,0.00%,F,F)
43:07 H1.38E7 A6.43E7
44:43 H1.32E7 A6.16E7
46:41 H1.55E7 A7.65E7
48:17 H1.52E7 A7.84E7
50:19 H1.45E7 A7.26E7
373.8788 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20140.0,0.00%,F,F)
43:07 H1.08E7 A5.01E7
44:43 H1.05E7 A4.86E7
46:41 H1.22E7 A6.00E7
48:17 H1.17E7 A6.09E7
50:19 H1.15E7 A5.76E7
100 %
50
0
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
51:00
Time
2.7E4
1.4E4
0.0E0
2.2E4
1.1E4
1.5E7
7.7E6
1.2E7
6.1E6

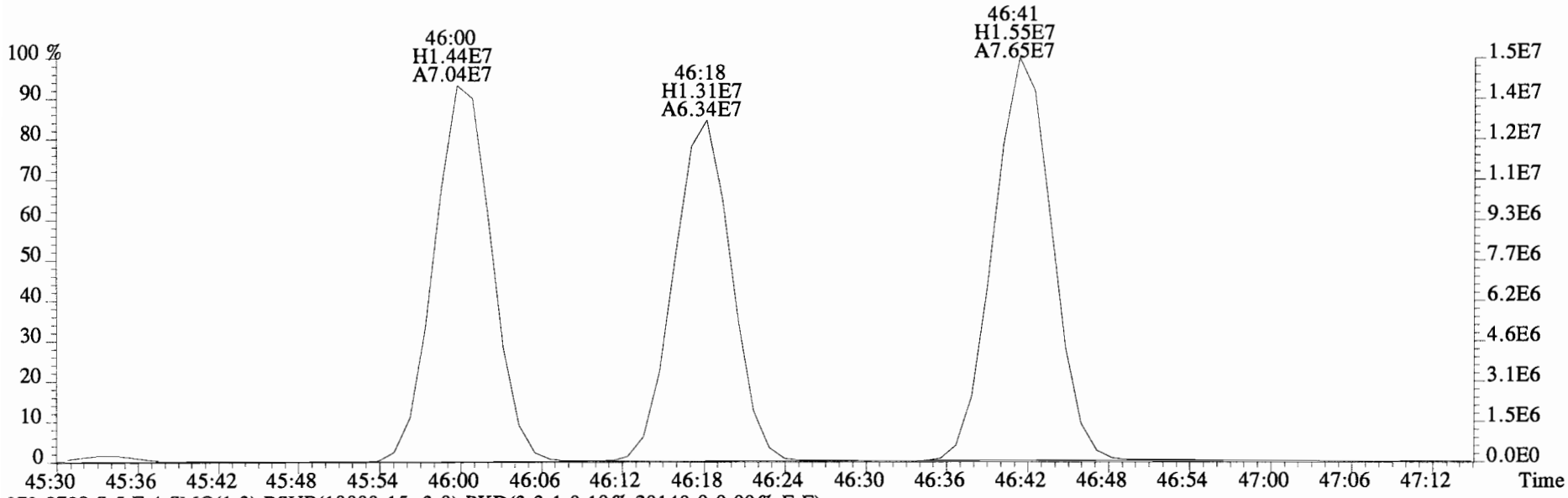
File:141024E2 #1-546 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2052.0,0.00%,F,F)



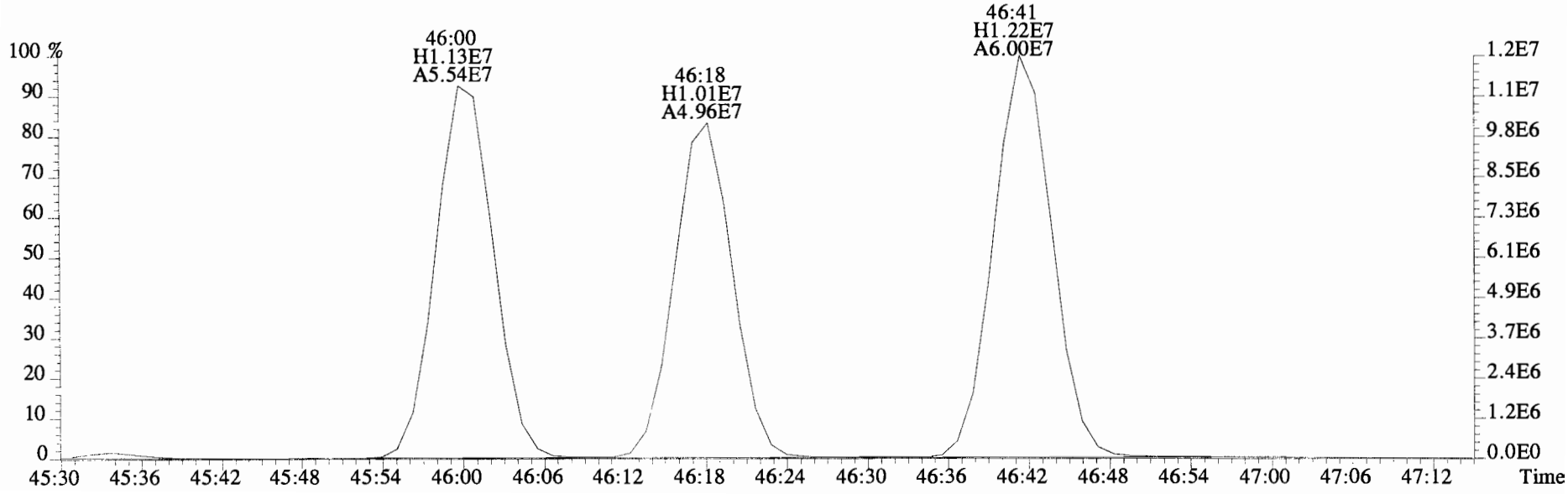
361.8385 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1808.0,0.00%,F,F)



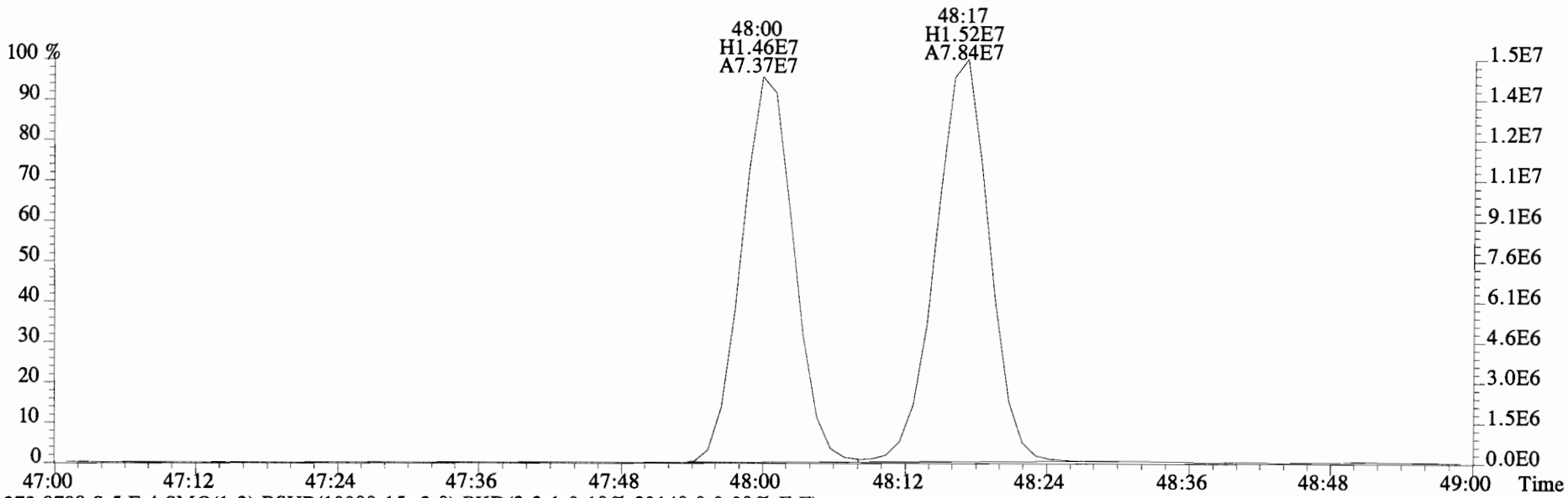
File:141024E2 #1-546 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
371.8817 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21412.0,0.00%,F,F)



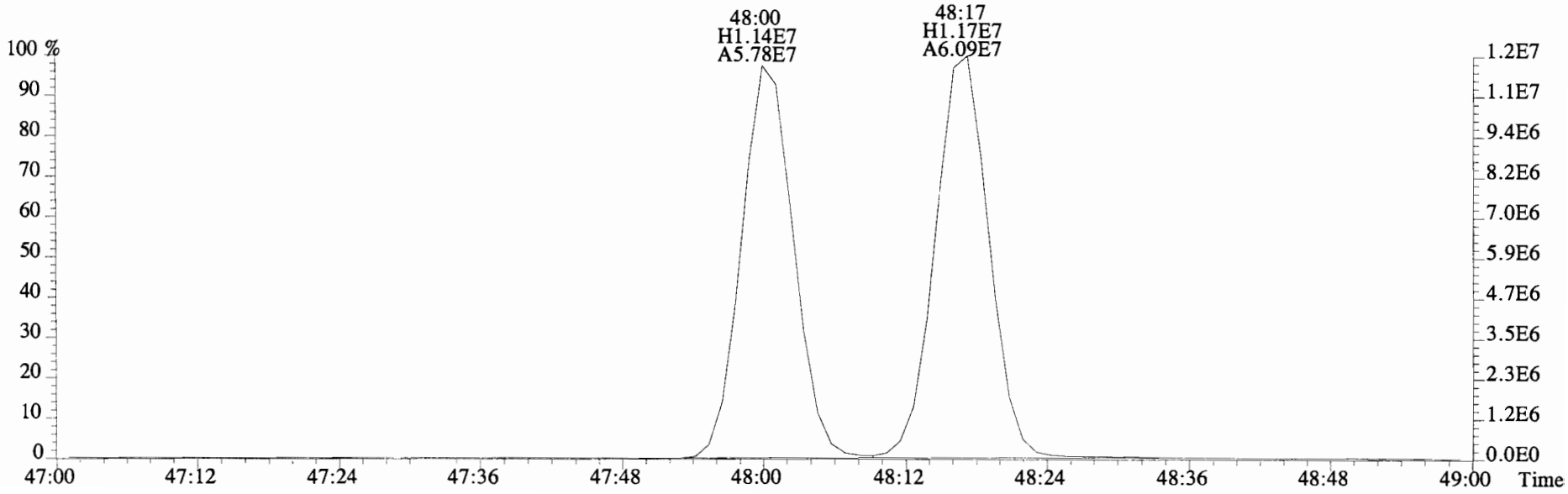
373.8788 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20140.0,0.00%,F,F)

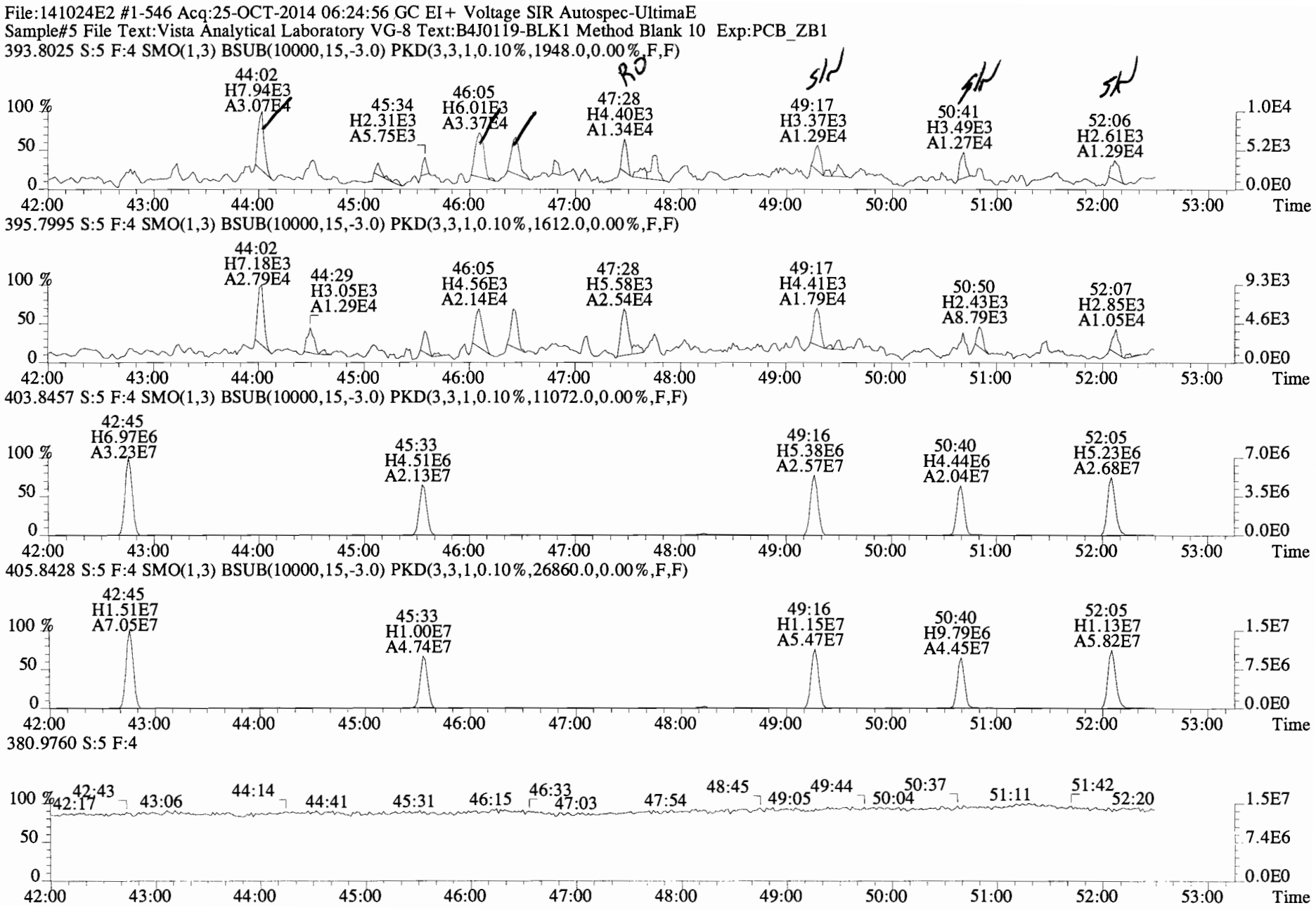


File:141024E2 #1-546 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
371.8817 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21412.0,0.00%,F,F)

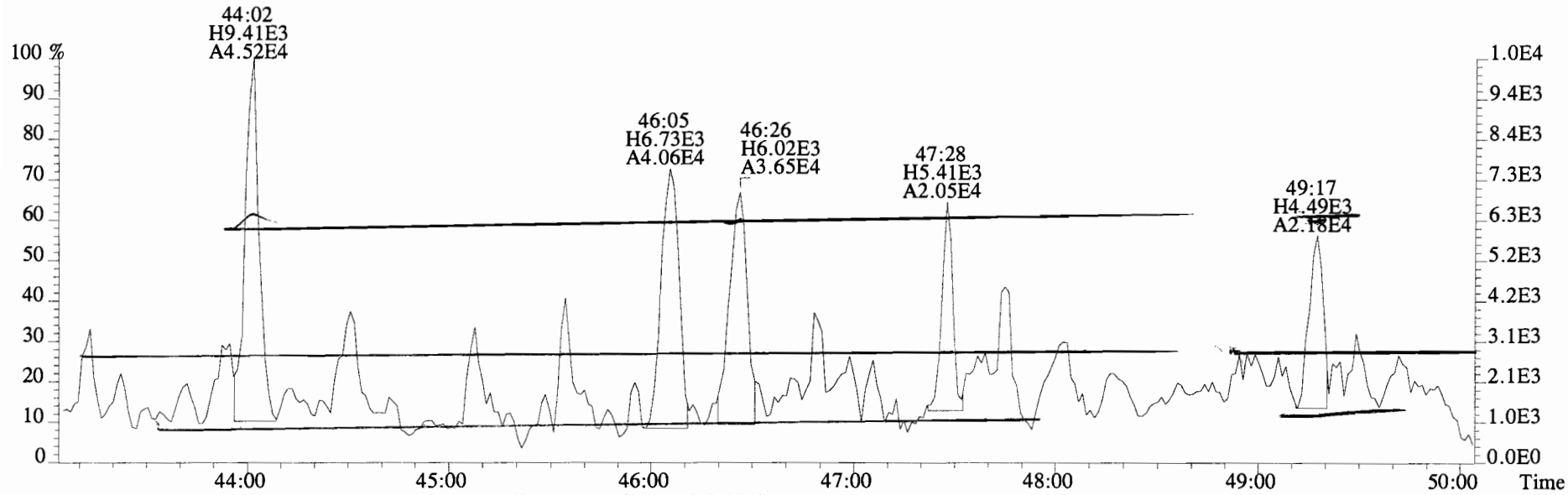


373.8788 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20140.0,0.00%,F,F)

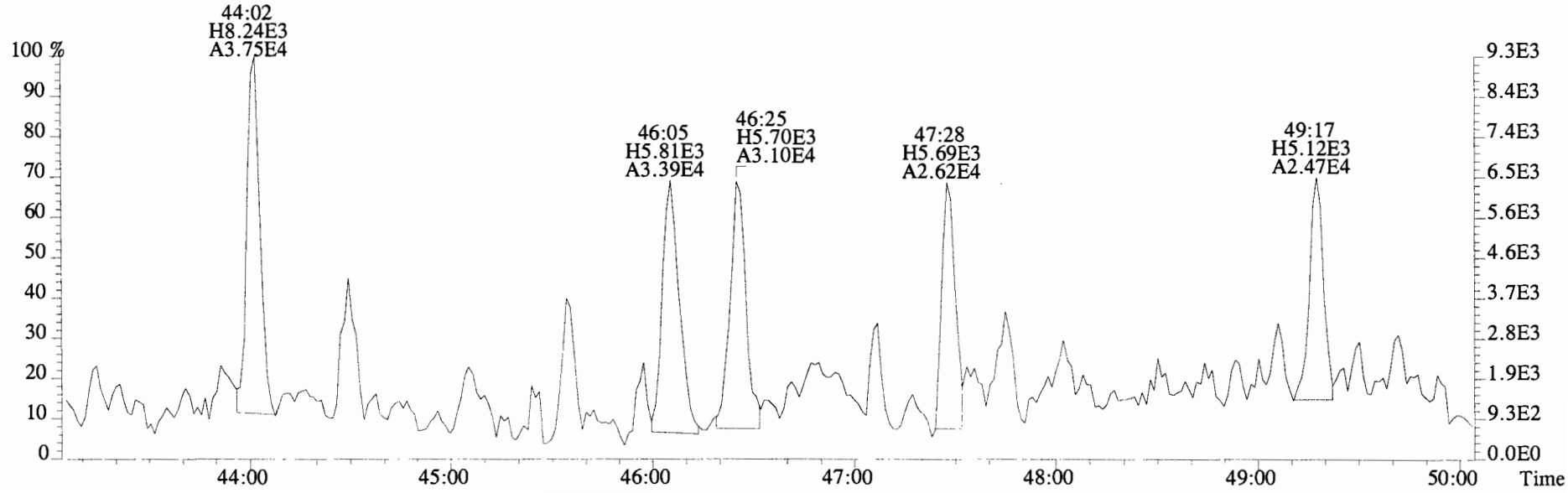



File:141024E2 #1-546 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1948.0,0.00%,F,F)
44:02 H7.94E3 A3.07E4
45:34 H2.31E3 A5.75E3
46:05 H6.01E3 A3.37E4
47:28 H4.40E3 A1.34E4
49:17 H3.37E3 A1.29E4
50:41 H3.49E3 A1.27E4
52:06 H2.61E3 A1.29E4
395.7995 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1612.0,0.00%,F,F)
44:02 H7.18E3 A2.79E4
44:29 H3.05E3 A1.29E4
46:05 H4.56E3 A2.14E4
47:28 H5.58E3 A2.54E4
49:17 H4.41E3 A1.79E4
50:50 H2.43E3 A8.79E3
52:07 H2.85E3 A1.05E4
403.8457 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11072.0,0.00%,F,F)
42:45 H6.97E6 A3.23E7
45:33 H4.51E6 A2.13E7
49:16 H5.38E6 A2.57E7
50:40 H4.44E6 A2.04E7
52:05 H5.23E6 A2.68E7
405.8428 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26860.0,0.00%,F,F)
42:45 H1.51E7 A7.05E7
45:33 H1.00E7 A4.74E7
49:16 H1.15E7 A5.47E7
50:40 H9.79E6 A4.45E7
52:05 H1.13E7 A5.82E7
380.9760 S:5 F:4
42:17 42:43 43:06 44:14 44:41 45:31 46:15 46:33 47:03 47:54 48:45 49:05 49:44 50:04 50:37 51:11 51:42 52:20
100 %
50
0
42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 51:00 52:00 53:00 Time
1.0E4 5.2E3 0.0E0
9.3E3 4.6E3 0.0E0
7.0E6 3.5E6 0.0E0
1.5E7 7.5E6 0.0E0
1.5E7 7.4E6 0.0E0

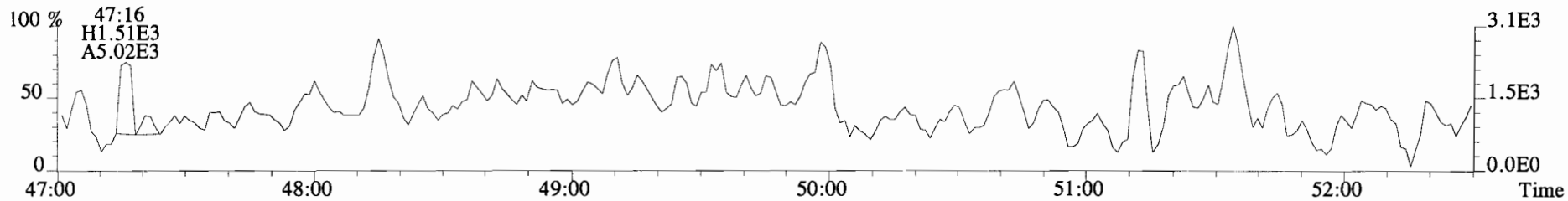
File:141024E2 #1-546 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1948.0,0.00%,F,F)



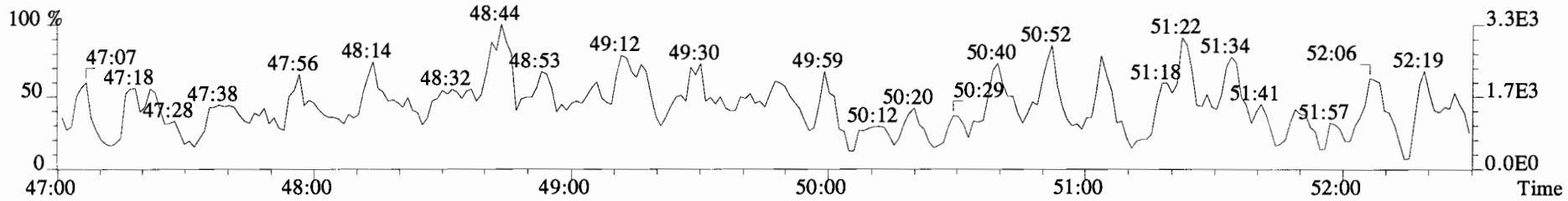
395.7995 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1612.0,0.00%,F,F)



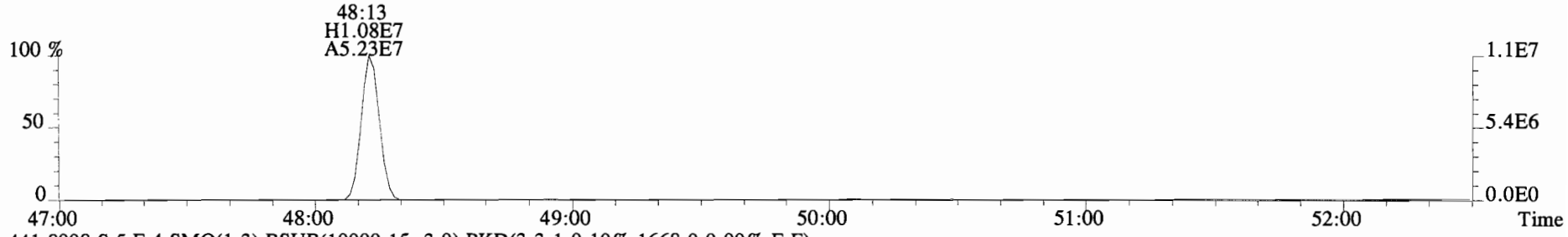
File:141024E2 #1-546 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
427.7635 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1640.0,0.00%,F,F)



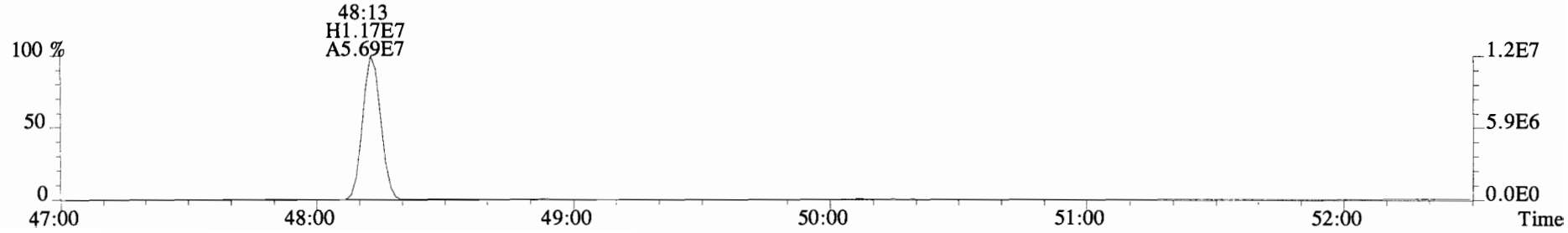
429.7606 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1736.0,0.00%,F,F)



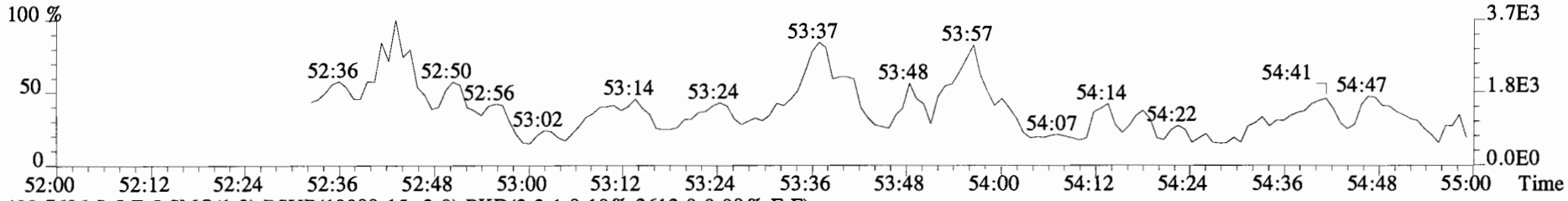
439.8038 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1332.0,0.00%,F,F)



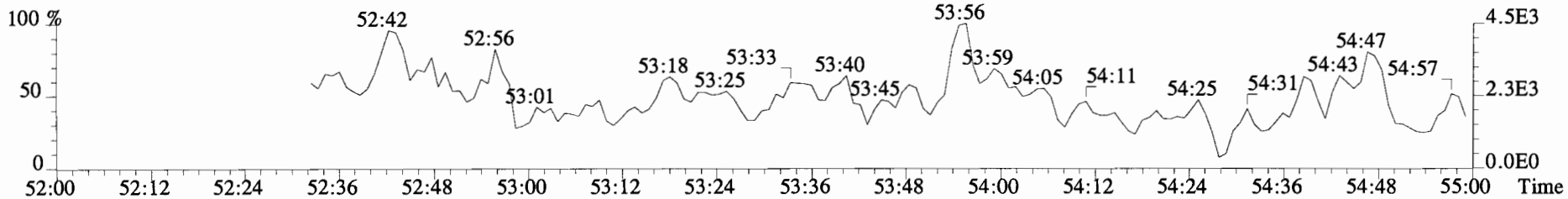
441.8008 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1668.0,0.00%,F,F)



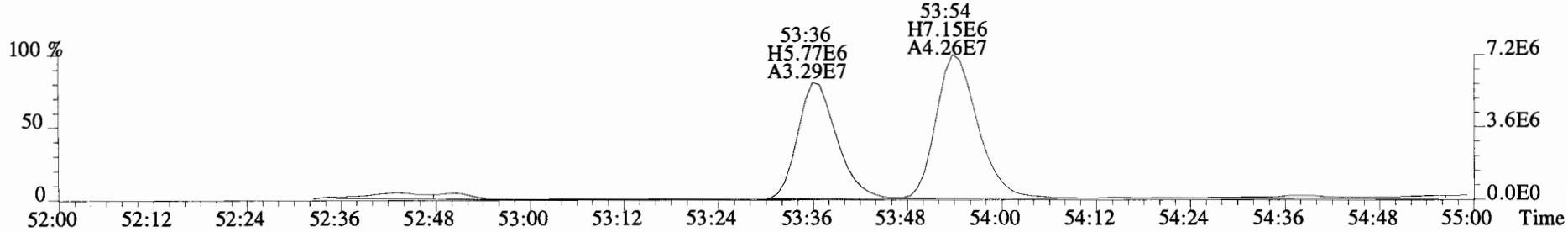
File:141024E2 #1-435 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
427.7635 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1428.0,0.00%,F,F)



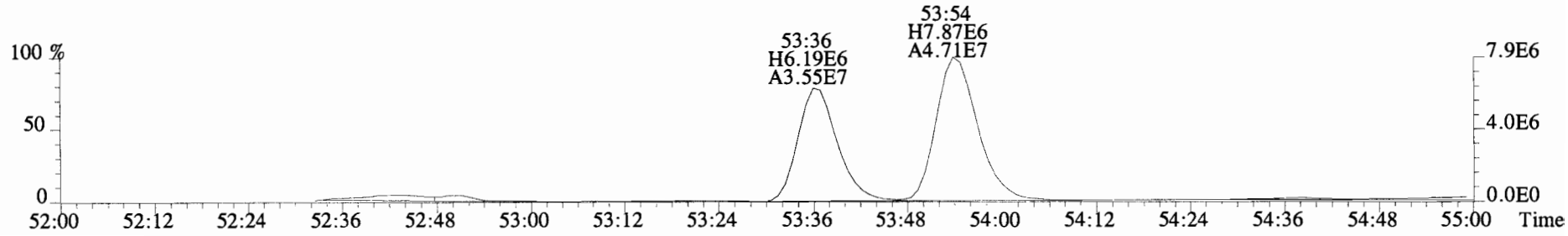
429.7606 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2612.0,0.00%,F,F)



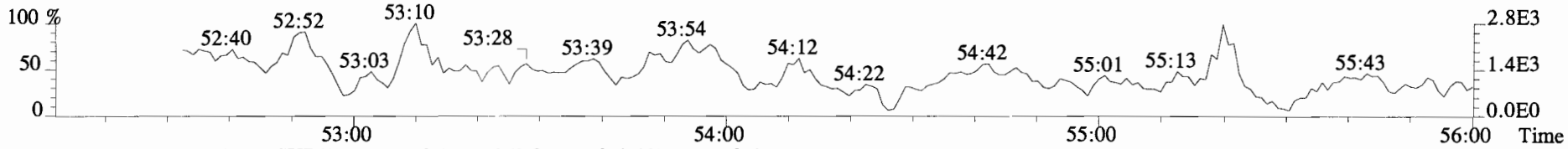
439.8038 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5556.0,0.00%,F,F)



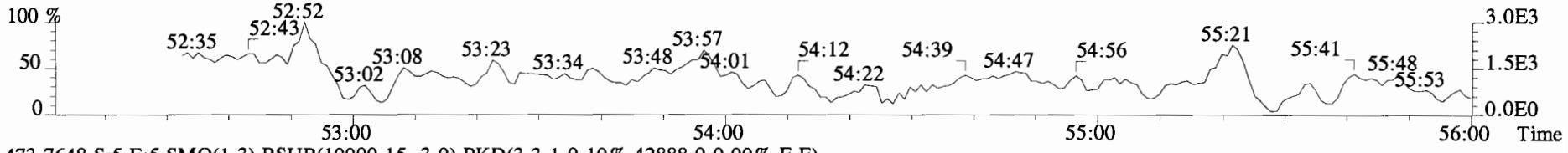
441.8008 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9112.0,0.00%,F,F)



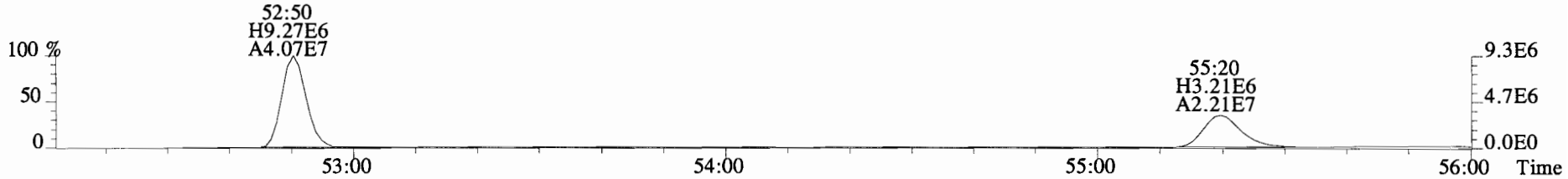
File:141024E2 #1-435 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
463.7216 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1664.0,0.00%,F,F)



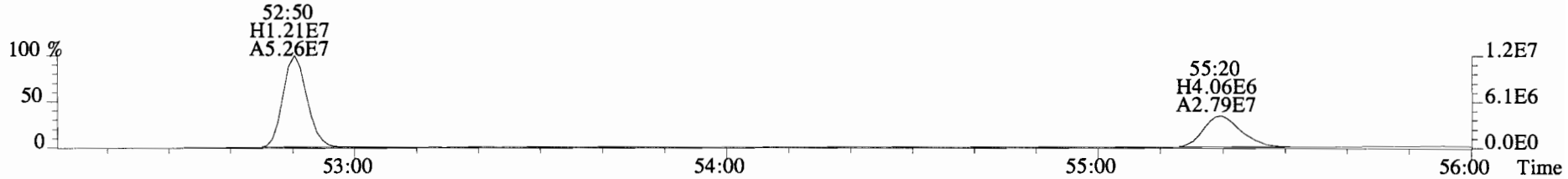
465.7186 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1376.0,0.00%,F,F)



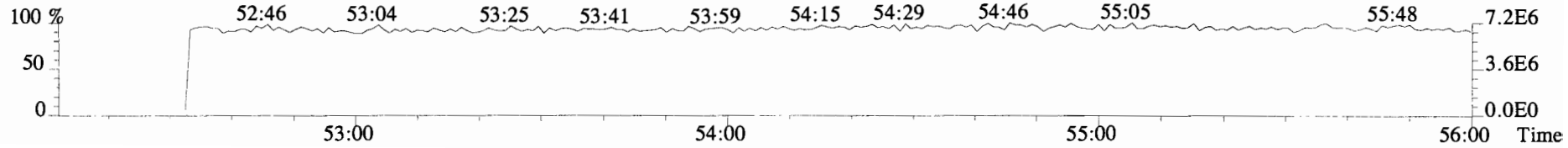
473.7648 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,42888.0,0.00%,F,F)



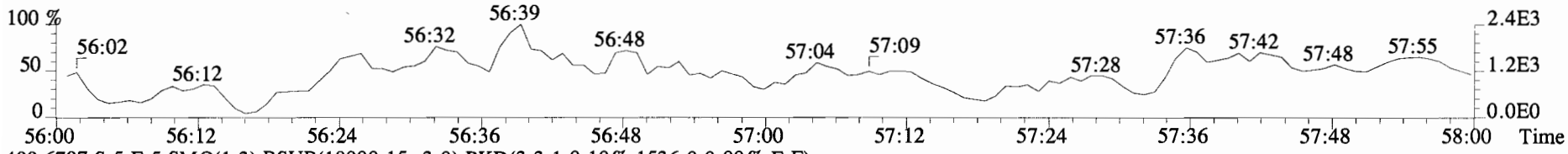
475.7619 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,54868.0,0.00%,F,F)



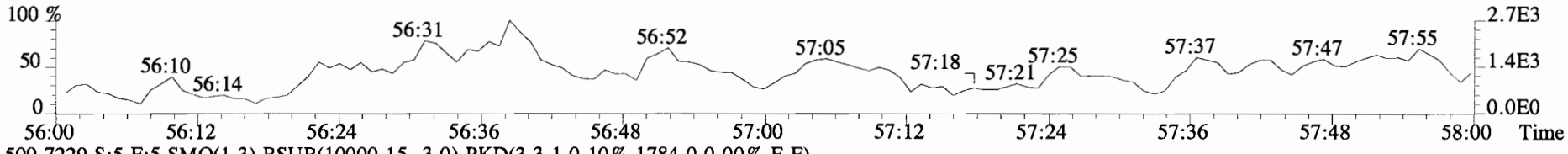
492.9697 S:5 F:5



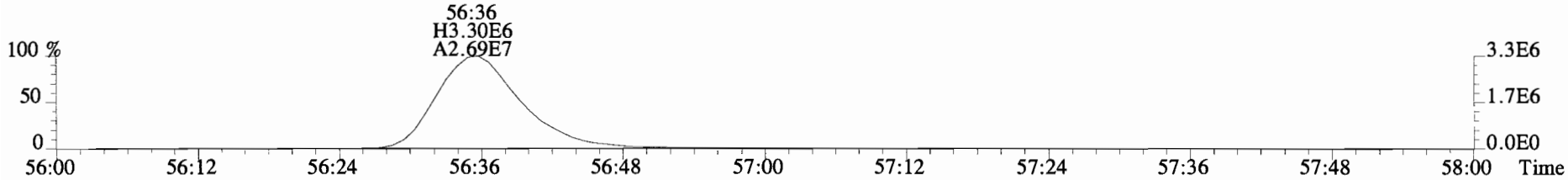
File:141024E2 #1-435 Acq:25-OCT-2014 06:24:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BLK1 Method Blank 10 Exp:PCB_ZB1
497.6826 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1476.0,0.00%,F,F)



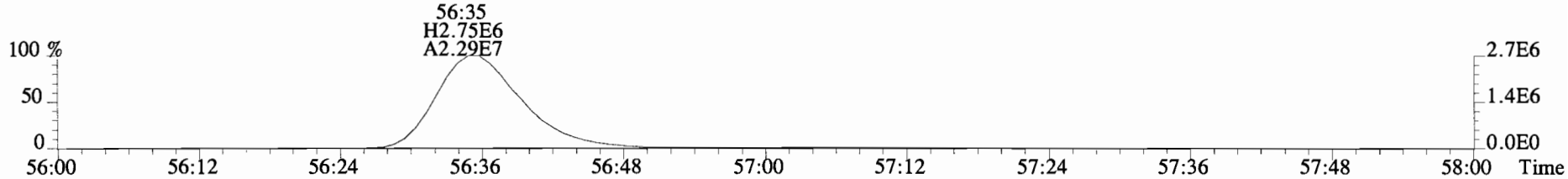
499.6797 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1536.0,0.00%,F,F)



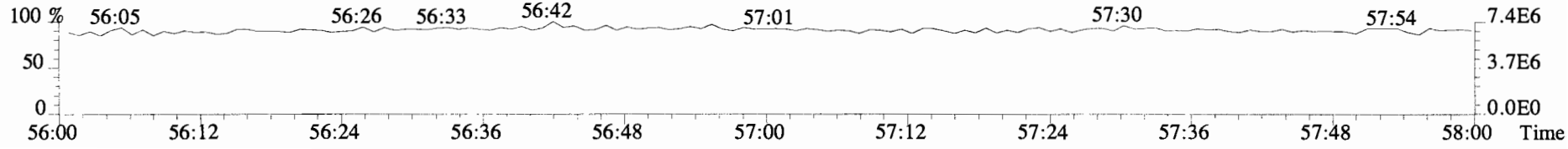
509.7229 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1784.0,0.00%,F,F)



511.7199 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1660.0,0.00%,F,F)



492.9697 S:5 F:5



EPA METHOD 1668C PCB ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory OPR Data Filename: B4J0119-BS1

Matrix : SOLID Ext. Date: 10-22-14 Analysis Date: 25-OCT-14 Time: 03:14:20

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

NATIVE ANALYTES	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	LABELED COMPOUNDS	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	CLEAN UP STANDARD	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)
PCB-1	50	36.2	30.0-67.5	13C-PCB-1	100	102.0	15-145	13C-PCB-79	100	88.3	40-145
PCB-3	50	36.1	30.0-67.5	13C-PCB-3	100	106.2	15-145	13C-PCB-178	100	100.7	40-145
PCB-4/10	200	195.1	120-270	13C-PCB-4	100	75.9	15-145				
PCB-15	100	93.0	60.0-135	13C-PCB-11	100	84.7	15-145				
PCB-19	50	46.0	30.0-67.5	13C-PCB-19	100	101.3	15-145				
PCB-37	50	50.3	30.0-67.5	13C-PCB-37	100	85.9	15-145				
PCB-54	50	44.7	30.0-67.5	13C-PCB-54	100	77.6	15-145				
PCB-81	50	43.3	30.0-67.5	13C-PCB-81	100	92.1	40-145				
PCB-77	50	44.9	30.0-67.5	13C-PCB-77	100	90.7	40-145				
PCB-104	50	48.1	30.0-67.5	13C-PCB-104	100	83.0	40-145				
PCB-123	50	46.4	30.0-67.5	13C-PCB-123	100	97.5	40-145				
PCB-106/118	100	93.8	60.0-135	13C-PCB-118	100	96.1	40-145				
PCB-114	50	49.1	30.0-67.5	13C-PCB-114	100	77.0	40-145				
PCB-105	50	49.6	30.0-67.5	13C-PCB-105	100	76.2	40-145				
PCB-126	50	50.5	30.0-67.5	13C-PCB-126	100	75.5	40-145				
PCB-155	50	46.1	30.0-67.5	13C-PCB-155	100	100.8	40-145				
PCB-167	50	43.5	30.0-67.5	13C-PCB-167	100	92.6	40-145				
PCB-156	50	44.7	30.0-67.5	13C-PCB-156	100	94.6	40-145				
PCB-157	50	42.4	30.0-67.5	13C-PCB-157	100	96.0	40-145				
PCB-169	50	41.8	30.0-67.5	13C-PCB-169	100	93.9	40-145				
PCB-188	50	45.3	30.0-67.5	13C-PCB-188	100	103.0	40-145				
PCB-189	50	45.3	30.0-67.5	13C-PCB-189	100	107.6	40-145				
PCB-202	50	45.1	30.0-67.5	13C-PCB-202	100	121.6	40-145				
PCB-205	50	44.7	30.0-67.5	13C-PCB-194	100	99.3	40-145				
PCB-208	50	47.5	30.0-67.5	13C-PCB-208	100	99.7	40-145				
PCB-206	50	46.7	30.0-67.5	13C-PCB-206	100	91.3	40-145				
PCB-209	50	46.4	30.0-67.5	13C-PCB-209	100	96.6	40-145				

Analyst: DMS

Date: 10/28/14

Client ID: OPR Filename: 141024E2 S:2 Acq:25-OCT-14 03:14:20 ConCal: ST141024E2-1
Lab ID: B4J0119-BS1 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
PCB-1	7.09e+07	2.94	y	1.19	16:27	1.001	0.996	1.006	36.2313
PCB-2	7.67e+07	2.94	y	1.18	18:44	0.989	0.984	0.994	36.2637
PCB-3	9.20e+07	2.93	y	1.43	18:58	1.001	0.996	1.006	36.1423
PCB-4/10	2.51e+08	1.62	y	1.57	20:17	1.002	0.997	1.007	195.052
PCB-7/9	3.02e+08	1.62	y	1.21	22:00	0.871	0.866	0.874	191.942
PCB-6	1.62e+08	1.64	y	1.30	22:38	0.897	0.890	0.899	95.7471
PCB-5/8	2.96e+08	1.62	y	1.15	23:03	0.913	0.907	0.917	198.438
PCB-14	1.53e+08	1.63	y	1.11	24:06	0.955	0.949	0.959	94.0812
PCB-11	1.51e+08	1.66	y	1.09	25:16	1.001	0.995	1.005	95.0111
PCB-12/13	3.33e+08	1.63	y	1.19	25:39	1.016	1.011	1.021	190.554
PCB-15	1.74e+08	1.65	y	1.28	25:58	1.029	1.023	1.033	92.9919
PCB-19	4.76e+07	1.04	y	1.04	24:18	1.001	0.996	1.006	45.9667
PCB-30	7.97e+07	1.05	y	1.71	25:09	1.036	1.032	1.042	46.9501
PCB-18	5.58e+07	1.04	y	0.78	25:53	0.954	0.949	0.959	45.9249
PCB-17	6.50e+07	1.06	y	0.92	26:03	0.961	0.956	0.966	45.4034
PCB-24/27	1.69e+08	1.05	y	1.19	26:38	0.982	0.977	0.987	91.4968
- PCB-16/32	1.33e+08	1.05	y	0.94	27:08	1.000	0.995	1.005	91.1739
- PCB-34	7.29e+07	1.04	y	1.14	27:54	0.960	0.955	0.965	50.2362
PCB-23	8.09e+07	1.05	y	1.28	28:00	0.964	0.959	0.969	49.5102
PCB-29	7.08e+07	1.05	y	1.08	28:14	0.972	0.967	0.977	51.2916
PCB-26	7.92e+07	1.04	y	1.21	28:27	0.979	0.974	0.984	51.3870
PCB-25	8.34e+07	1.06	y	1.26	28:36	0.985	0.979	0.989	51.7337
PCB-31	8.11e+07	1.04	y	1.28	28:57	0.997	0.992	1.002	49.4066
PCB-28	1.10e+08	1.06	y	1.71	29:03	1.000	0.995	1.005	50.2451
PCB-20/21/33	2.02e+08	1.05	y	1.08	29:41	1.022	1.017	1.027	145.938
PCB-22	7.05e+07	1.05	y	1.21	30:07	1.037	1.032	1.042	45.6328
PCB-36	6.46e+07	1.05	y	1.14	30:42	0.933	0.928	0.938	50.0325
PCB-39	6.57e+07	1.04	y	1.12	31:10	0.947	0.943	0.953	52.1282
PCB-38	6.91e+07	1.05	y	1.20	31:57	0.971	0.966	0.976	50.9674
PCB-35	7.76e+07	1.09	y	1.23	32:28	0.987	0.982	0.992	55.7211
PCB-37	7.00e+07	1.05	y	1.23	32:55	1.001	0.995	1.005	50.3186
PCB-54	6.33e+07	0.75	y	1.10	27:59	1.001	0.996	1.006	44.6519
PCB-50	5.24e+07	0.75	y	0.88	29:07	1.041	1.037	1.047	46.2584
PCB-53	4.96e+07	0.74	y	1.06	29:45	0.947	0.942	0.952	42.3148
PCB-51	4.50e+07	0.73	y	0.99	30:06	0.958	0.952	0.962	41.2188
PCB-45	4.06e+07	0.74	y	0.86	30:32	0.972	0.966	0.976	42.5751
PCB-46	4.06e+07	0.72	y	0.85	31:01	0.987	0.981	0.991	43.5895

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
PCB-52/69	1.25e+08	0.73	y	1.28	31:28	1.002	0.996	1.006	88.3955
PCB-73	6.62e+07	0.75	y	1.35	31:35	1.005	1.000	1.010	44.3647
PCB-43/49	9.71e+07	0.74	y	0.99	31:45	1.010	1.005	1.015	88.5100
PCB-47	5.72e+07	0.73	y	1.06	31:57	1.001	0.996	1.006	45.4865
PCB-48/75	1.28e+08	0.75	y	1.23	32:04	1.004	0.999	1.009	87.9070
PCB-65	6.47e+07	0.84	y	1.22	32:21	1.013	1.008	1.018	44.5330
PCB-62	6.47e+07	0.67	y	1.22	32:27	1.016	1.011	1.021	44.6174
PCB-44	4.38e+07	0.74	y	0.86	32:45	1.026	1.021	1.031	42.9330
PCB-42/59	1.18e+08	0.74	y	1.14	32:58	1.033	1.028	1.038	87.0822
PCB-41/64/71/72	2.49e+08	0.74	y	1.21	33:33	1.051	1.046	1.056	173.908
PCB-68	7.17e+07	0.73	y	1.35	33:48	1.059	1.054	1.064	44.7997
PCB-40	3.85e+07	0.75	y	0.70	34:02	1.066	1.061	1.071	46.1870
PCB-57	6.67e+07	0.73	y	0.98	34:22	0.970	0.965	0.975	44.8296
PCB-67	7.06e+07	0.73	y	1.11	34:41	0.979	0.974	0.984	41.9955
PCB-58	6.79e+07	0.76	y	0.93	34:47	0.982	0.977	0.987	48.2300
PCB-63	6.36e+07	0.73	y	0.95	34:57	0.987	0.982	0.992	44.0091
PCB-74	8.39e+07	0.74	y	1.24	35:15	0.995	0.990	1.000	44.4197
PCB-61/70	1.31e+08	0.75	y	0.95	35:25	1.000	0.995	1.005	90.3434
PCB-76/66	1.40e+08	0.74	y	1.04	35:38	1.006	1.001	1.011	88.5507
PCB-80	8.69e+07	0.75	y	1.19	35:51	1.001	0.996	1.006	45.3749
PCB-55	7.60e+07	0.74	y	1.04	36:12	1.010	1.005	1.015	45.4651
PCB-56/60	1.43e+08	0.73	y	1.01	36:41	1.024	1.019	1.029	88.5126
PCB-79	7.71e+07	0.76	y	1.08	37:45	1.053	1.048	1.058	44.5059
PCB-78	8.19e+07	0.76	y	1.27	38:27	0.987	0.982	0.992	44.4593
PCB-81	8.35e+07	0.75	y	1.33	38:59	1.000	0.995	1.005	43.2956
PCB-77	7.20e+07	0.78	y	1.10	39:34	1.000	0.995	1.005	44.8904
PCB-104	6.44e+07	1.55	y	1.18	32:37	1.001	0.996	1.006	48.1408
PCB-96	6.22e+07	1.57	y	1.14	33:52	1.039	1.034	1.044	48.3458
PCB-103	5.30e+07	1.58	y	0.96	34:22	1.054	1.050	1.060	49.0053
PCB-100	5.34e+07	1.57	y	0.94	34:44	1.066	1.061	1.071	50.4202
PCB-94	4.33e+07	1.60	y	1.06	35:12	0.985	0.980	0.990	46.2681
PCB-95/98/102	1.56e+08	1.57	y	1.22	35:42	0.999	0.995	1.005	144.049
PCB-93	3.63e+07	1.62	y	0.84	35:50	1.003	0.997	1.007	48.5761
PCB-88/91	9.88e+07	1.52	y	1.12	36:07	1.011	1.005	1.015	99.8270
PCB-121	7.06e+07	1.71	y	1.62	36:13	1.013	1.009	1.019	49.2930
PCB-84/92	9.58e+07	1.57	y	1.05	37:03	0.991	0.985	0.995	93.4677
PCB-89	5.26e+07	1.57	y	1.13	37:15	0.996	0.991	1.001	47.4708

RL: MONO, TRI - DECA: ~~———~~

RL: DI : _____

Integrations by Analyst: DMS Date: 10/28/14

Reviewed by Analyst: [illegible] Date: 10/30/14

Client ID: OPR Filename: 141024E2 S:2 Acq:25-OCT-14 03:14:20 ConCal: ST141024E2-1
Lab ID: B4J0119-BS1 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-90/101	1.02e+08	1.56	y	1.10	37:24	1.000	0.995	1.005	94.6786
	PCB-113	6.46e+07	1.58	y	1.41	37:39	1.007	1.002	1.012	46.7350
	PCB-99	6.44e+07	1.58	y	1.34	37:45	1.009	1.004	1.014	49.2024
	PCB-119	6.62e+07	1.57	y	1.53	38:12	0.987	0.982	0.992	48.5211
	PCB-108/112	1.08e+08	1.55	y	1.28	38:22	0.991	0.986	0.996	94.7973
	PCB-83	6.33e+07	1.58	y	1.52	38:32	0.995	0.990	1.000	46.7826
	PCB-97	4.98e+07	1.63	y	1.18	38:44	1.001	0.995	1.005	47.3082
	PCB-86	3.53e+07	1.43	y	0.84	38:53	1.004	0.999	1.009	47.0903
	B-87/117/125	1.99e+08	1.57	y	1.55	39:00	1.007	1.002	1.012	144.231
	PCB-111/115	1.34e+08	1.55	y	1.63	39:09	1.011	1.006	1.016	92.2057
	PCB-85/116	1.15e+08	1.57	y	1.30	39:18	1.015	1.010	1.020	99.3926
	PCB-120	7.19e+07	1.58	y	1.68	39:30	1.020	1.016	1.026	48.1693
	PCB-110	6.61e+07	1.57	y	1.56	39:41	1.025	1.020	1.030	47.6508
	PCB-82	4.28e+07	1.57	y	0.76	40:18	0.977	0.971	0.981	47.6045
	PCB-124	8.33e+07	1.56	y	1.47	40:58	0.993	0.988	0.998	47.8477
	PCB-107/109	1.48e+08	1.57	y	1.32	41:07	0.996	0.991	1.001	94.3170
	PCB-123	6.41e+07	1.55	y	1.17	41:17	1.000	0.996	1.006	46.3534
-	PCB-106/118	1.38e+08	1.55	y	1.17	41:30	1.001	0.996	1.006	93.7813
-	PCB-114	7.13e+07	1.63	y	1.30	42:08	1.000	0.995	1.005	49.1067
	PCB-122	6.17e+07	1.66	y	1.12	42:17	1.004	0.999	1.009	49.2123
	PCB-105	7.14e+07	1.61	y	1.30	43:00	1.000	0.995	1.005	49.5612
	PCB-127	7.76e+07	1.64	y	1.33	43:19	1.000	0.996	1.006	48.9527
	PCB-126	6.28e+07	1.63	y	1.18	45:15	1.000	0.995	1.005	50.4753
	PCB-155	5.91e+07	1.27	y	1.11	36:58	1.000	0.966	1.006	46.1198
	PCB-150	5.46e+07	1.26	y	1.00	38:14	1.035	1.030	1.040	47.5449
	PCB-152	5.98e+07	1.25	y	1.12	38:43	1.048	1.043	1.053	46.6333
	PCB-145	6.42e+07	1.24	y	1.20	39:10	1.060	1.055	1.065	46.4359
	PCB-136	6.74e+07	1.26	y	1.18	39:29	1.069	1.064	1.074	49.7445
	PCB-148	3.79e+07	1.26	y	0.74	39:35	1.071	1.066	1.076	44.2631
	PCB-154	4.84e+07	1.23	y	0.86	40:03	1.084	1.080	1.090	49.0995
	PCB-151	4.14e+07	1.25	y	0.75	40:42	1.102	1.097	1.107	48.1849
	PCB-135	4.27e+07	1.25	y	0.79	40:56	1.108	1.103	1.113	46.8313
	PCB-144	4.66e+07	1.26	y	0.76	41:02	1.111	1.105	1.117	53.1563
	PCB-147	4.64e+07	1.28	y	0.82	41:10	1.114	1.109	1.121	49.2207
	PCB-139/149	8.68e+07	1.26	y	0.76	41:26	1.121	1.116	1.128	99.0528
-	PCB-140	4.22e+07	1.25	y	0.72	41:38	1.127	1.121	1.133	50.8509
-	PCB-134/143	8.91e+07	1.23	y	0.92	42:04	0.975	0.970	0.980	87.1968

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-133/142	8.00e+07	1.23	y	0.82	42:21	0.982	0.977	0.987	87.6906
	PCB-131	4.32e+07	1.23	y	0.91	42:32	0.986	0.981	0.991	42.6626
	PCB-146/165	1.20e+08	1.22	y	1.25	42:43	0.991	0.986	0.996	86.4077
	PCB-132/161	1.05e+08	1.23	y	1.10	42:59	0.997	0.992	1.002	85.4104
	PCB-153	6.21e+07	1.19	y	1.25	43:09	1.001	0.995	1.005	44.5826
	PCB-168	7.14e+07	1.22	y	1.45	43:21	1.005	1.001	1.011	44.2350
	PCB-141	4.81e+07	1.21	y	1.09	43:54	1.001	0.995	1.005	42.9101
	PCB-137	4.80e+07	1.21	y	1.06	44:17	1.009	1.004	1.014	43.6952
	PCB-130	4.60e+07	1.23	y	0.96	44:24	1.012	1.006	1.016	46.0904
	PCB-138/163/164	1.79e+08	1.22	y	1.29	44:46	1.001	0.996	1.006	128.208
	PCB-158/160	1.28e+08	1.21	y	1.34	45:01	1.007	1.001	1.011	88.4664
	PCB-129	4.05e+07	1.22	y	0.85	45:15	1.012	1.007	1.017	43.9994
	PCB-166	6.34e+07	1.22	y	1.19	45:42	0.993	0.988	0.998	42.9434
	PCB-159	6.68e+07	1.22	y	1.11	46:02	1.000	0.996	1.006	48.2068
	PCB-128/162	1.14e+08	1.23	y	1.05	46:19	1.007	1.002	1.012	87.2608
	PCB-167	6.97e+07	1.21	y	1.20	46:42	1.000	0.995	1.005	43.5410
	PCB-156	6.65e+07	1.23	y	1.14	48:01	1.000	0.996	1.006	44.7407
	PCB-157	6.85e+07	1.25	y	1.16	48:18	1.000	0.995	1.005	42.4081
	PCB-169	6.02e+07	1.25	y	1.12	50:20	1.000	0.995	1.005	41.8320
	PCB-188	7.22e+07	1.06	y	1.58	42:47	1.001	0.996	1.006	45.3051
	PCB-184	7.59e+07	1.05	y	1.63	43:14	1.011	1.006	1.016	46.1708
	PCB-179	6.00e+07	1.06	y	1.30	44:02	1.029	1.024	1.034	45.6220
	PCB-176	6.80e+07	1.06	y	1.48	44:29	1.040	1.035	1.045	45.6645
	PCB-186	6.77e+07	1.05	y	1.45	45:07	1.055	1.050	1.060	46.1701
	PCB-178	4.87e+07	1.07	y	1.03	45:35	1.066	1.061	1.071	46.6696
	PCB-175	4.80e+07	1.05	y	1.01	45:56	1.074	1.069	1.079	46.9908
	PCB-182/187	1.19e+08	1.06	y	1.25	46:07	1.078	1.073	1.083	94.4000
	PCB-183	5.64e+07	1.04	y	1.21	46:26	1.086	1.081	1.091	46.3108
	PCB-185	6.33e+07	1.05	y	1.80	47:06	0.956	0.951	0.961	43.7340
	PCB-174	4.75e+07	1.04	y	1.38	47:28	0.963	0.958	0.968	42.9731
	PCB-181	5.43e+07	1.07	y	1.38	47:35	0.966	0.960	0.970	48.9885
	PCB-177	4.62e+07	1.05	y	1.26	47:45	0.969	0.963	0.973	45.8266
	PCB-171	5.77e+07	1.05	y	1.58	48:02	0.975	0.970	0.980	45.4389
	PCB-173	4.15e+07	1.06	y	1.11	48:29	0.984	0.978	0.988	46.6258
	PCB-172	6.10e+07	1.04	y	1.63	48:54	0.993	0.987	0.997	46.4496
	PCB-192	6.63e+07	1.06	y	1.74	49:06	0.996	0.991	1.001	47.4202
	PCB-180	4.93e+07	1.04	y	1.34	49:17	1.000	0.995	1.005	45.6990

RL: MONO, TRI - DECA: ~~~~

Integrations by Analyst: DMS

Date: 10/28/14

Client ID: OPR Filename: 141024E2 S:2 Acq:25-OCT-14 03:14:20 ConCal: ST141024E2-1
Lab ID: B4J0119-BS1 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-193	6.24e+07	1.04	y	1.72	49:29	1.004	0.999	1.009	45.3032
	PCB-191	6.22e+07	1.04	y	1.69	49:43	1.009	1.004	1.014	45.7387
	PCB-170	4.63e+07	1.04	y	1.60	50:41	1.000	0.995	1.005	45.7807
	PCB-190	6.34e+07	1.06	y	2.21	50:50	1.003	0.998	1.008	45.3243
	PCB-189	5.77e+07	1.05	y	1.55	52:07	1.000	0.995	1.005	45.3230
	PCB-202	5.31e+07	0.90	y	1.08	48:15	1.000	0.995	1.005	45.1449
	PCB-201	5.78e+07	0.89	y	1.15	48:44	1.011	1.005	1.015	46.2634
	PCB-204	5.67e+07	0.90	y	1.14	48:53	1.014	1.008	1.018	45.8306
	PCB-197	5.35e+07	0.90	y	1.07	49:10	1.020	1.015	1.025	45.8454
	PCB-200	5.33e+07	0.91	y	1.06	49:60	1.037	1.032	1.044	46.0845
	PCB-198	3.33e+07	0.88	y	0.76	51:14	1.062	1.059	1.069	40.5217
	PCB-199	4.28e+07	0.88	y	0.80	51:20	1.064	1.061	1.071	49.3583
-	PCB-196/203	7.87e+07	0.89	y	0.80	51:36	1.070	1.066	1.076	90.2906
-	PCB-195	3.94e+07	0.91	y	1.23	52:44	0.983	0.979	0.989	48.4666
	PCB-194	3.67e+07	0.90	y	1.21	53:38	1.000	0.995	1.005	45.6716
	PCB-205	4.56e+07	0.91	y	1.54	53:56	1.006	1.001	1.011	44.6745
	PCB-208	3.98e+07	1.33	y	0.93	52:52	1.000	0.995	1.005	47.4791
	PCB-207	4.57e+07	1.34	y	1.08	53:11	1.006	1.001	1.011	46.8800
	PCB-206	2.37e+07	1.33	y	1.02	55:22	1.000	0.995	1.005	46.7389
	PCB-209	2.68e+07	1.17	y	1.17	56:37	1.000	0.995	1.005	46.4206

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	2.40e+08	2.94	y	16:27	1.27	108.637	
Total Di-PCB	1.82e+09	1.62	y	20:17	1.21	1153.82	
Total Tri-PCB	5.50e+08	1.04	y	24:18	1.10	366.916	
Total Tri-PCB	1.21e+09	1.04	y	27:54	1.21	814.660	Sum:1181.58
Total Tetra-PCB	2.68e+09	0.75	y	27:59	1.09	1871.43	
Total Penta-PCB	2.41e+09	1.55	y	32:37	1.18	1965.91	
Total Penta-PCB	3.68e+08	1.63	y	42:08	1.25	263.711	Sum:2229.62
Total Hexa-PCB	6.97e+08	1.27	y	36:58	0.90	677.138	
Total Hexa-PCB	1.59e+09	1.23	y	42:04	1.11	1242.19	Sum:1919.33
Total Hepta-PCB	1.40e+09	1.06	y	42:47	1.42	1109.13	
Total Octa-PCB	4.29e+08	0.90	y	48:15	0.96	409.339	
Total Octa-PCB	1.24e+08	0.91	y	52:44	1.33	141.149	Sum:550.488
Total Nona-PCB	1.11e+08	1.33	y	52:52	1.01	143.539	
Total Deca-PCB	2.68e+07	1.17	y	56:37	1.17	46.4206	

Total PCB Conc:10240.1994880

RL: MONO, TRI - DECA: —

Integrations by Analyst: DMS

Date: 10/28/14

Client ID: OPR Filename: 141024E2 S:2 Acq:25-OCT-14 03:14:20 ConCal: ST141024E2-1
Lab ID: B4J0119-BS1 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:1.0000 EndCAL: NA

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.64e+08	3.24	y	0.87	16:26	0.633	0.629	0.635	102	102
13C-PCB-3	1.79e+08	3.25	y	0.91	18:57	0.730	0.725	0.733	106	106
13C-PCB-4	8.21e+07	1.58	y	0.59	20:14	0.780	0.775	0.783	75.9	75.9
13C-PCB-9	1.30e+08	1.58	y	0.90	21:57	0.846	0.842	0.850	78.6	78.6
13C-PCB-11	1.46e+08	1.58	y	0.94	25:15	0.973	0.968	0.978	84.7	84.7
13C-PCB-19	9.92e+07	1.08	y	0.53	24:16	0.935	0.930	0.940	101	101
13C-PCB-28	1.28e+08	1.03	y	0.93	29:03	1.004	0.999	1.009	87.5	87.5
13C-PCB-32	1.55e+08	1.10	y	0.80	27:07	1.045	1.040	1.050	106	106
13C-PCB-37	1.13e+08	1.04	y	0.84	32:54	1.137	1.131	1.143	85.9	85.9
13C-PCB-47	1.19e+08	0.77	y	0.81	31:56	0.870	0.866	0.874	85.6	85.6
13C-PCB-52	1.10e+08	0.79	y	0.77	31:25	0.857	0.853	0.861	83.8	83.8
13C-PCB-54	1.29e+08	0.79	y	0.97	27:57	0.762	0.758	0.766	77.6	77.6
13C-PCB-70	1.52e+08	0.78	y	1.00	35:26	0.966	0.961	0.971	89.1	89.1
13C-PCB-77	1.46e+08	0.78	y	0.94	39:33	1.078	1.073	1.083	90.7	90.7
13C-PCB-80	1.60e+08	0.77	y	1.03	35:50	0.977	0.972	0.982	91.2	91.2
13C-PCB-81	1.45e+08	0.78	y	0.92	38:57	1.062	1.057	1.067	92.1	92.1
13C-PCB-95	8.86e+07	1.59	y	0.74	35:44	0.913	0.908	0.918	88.0	88.0
13C-PCB-97	8.91e+07	1.60	y	0.70	38:43	0.989	0.984	0.994	93.0	93.0
13C-PCB-101	9.81e+07	1.60	y	0.78	37:24	0.956	0.951	0.961	92.1	92.1
13C-PCB-104	1.13e+08	1.61	y	1.00	32:36	0.833	0.828	0.836	83.0	83.0
13C-PCB-105	1.11e+08	1.59	y	1.37	42:59	0.928	0.924	0.934	76.2	76.2
13C-PCB-114	1.12e+08	1.59	y	1.36	42:07	0.910	0.905	0.915	77.0	77.0
13C-PCB-118	1.25e+08	1.62	y	0.96	41:27	1.060	1.054	1.064	96.1	96.1
13C-PCB-123	1.18e+08	1.58	y	0.89	41:16	1.055	1.050	1.060	97.5	97.5
13C-PCB-126	1.05e+08	1.55	y	1.31	45:14	0.977	0.972	0.982	75.5	75.5
13C-PCB-127	1.19e+08	1.58	y	1.47	43:19	0.935	0.931	0.941	75.7	75.7
13C-PCB-138	1.08e+08	1.27	y	1.10	44:43	0.966	0.961	0.971	92.0	92.0
13C-PCB-141	1.03e+08	1.28	y	1.07	43:52	0.948	0.943	0.953	90.2	90.2
13C-PCB-153	1.11e+08	1.27	y	1.15	43:07	0.931	0.927	0.937	91.2	91.2
13C-PCB-155	1.15e+08	1.29	y	0.84	36:57	0.944	0.939	0.949	101	101
13C-PCB-156	1.31e+08	1.27	y	1.30	48:01	1.037	1.032	1.042	94.6	94.6
13C-PCB-157	1.39e+08	1.30	y	1.36	48:17	1.043	1.038	1.048	96.0	96.0
13C-PCB-159	1.25e+08	1.27	y	1.25	46:01	0.994	0.989	0.999	93.6	93.6
13C-PCB-167	1.33e+08	1.26	y	1.35	46:42	1.009	1.004	1.014	92.6	92.6
13C-PCB-169	1.29e+08	1.29	y	1.29	50:19	1.087	1.083	1.093	93.9	93.9
13C-PCB-170	6.33e+07	0.46	y	0.54	50:40	1.094	1.089	1.101	110	110
13C-PCB-180	8.03e+07	0.47	y	0.68	49:16	1.064	1.060	1.070	110	110
13C-PCB-188	1.01e+08	0.45	y	0.92	42:46	0.924	0.919	0.929	103	103
13C-PCB-189	8.22e+07	0.46	y	0.72	52:06	1.125	1.120	1.132	108	108
13C-PCB-194	6.63e+07	0.92	y	0.80	53:37	0.995	0.990	1.000	99.3	99.3
13C-PCB-202	1.09e+08	0.91	y	0.84	48:13	1.041	1.036	1.046	122	122
13C-PCB-206	4.96e+07	0.79	y	0.65	55:21	1.027	1.021	1.031	91.3	91.3
13C-PCB-208	9.01e+07	0.77	y	1.08	52:51	0.980	0.976	0.986	99.7	99.7
13C-PCB-209	4.93e+07	1.18	y	0.61	56:37	1.050	1.045	1.055	96.6	96.6

CRS vs. RS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.53e+08	0.78	y	1.02	37:43	1.028	1.023	1.034	88.3	88.3
13C-PCB-178	6.59e+07	0.45	y	0.61	45:34	0.984	0.979	0.990	101	101

PS vs. IS

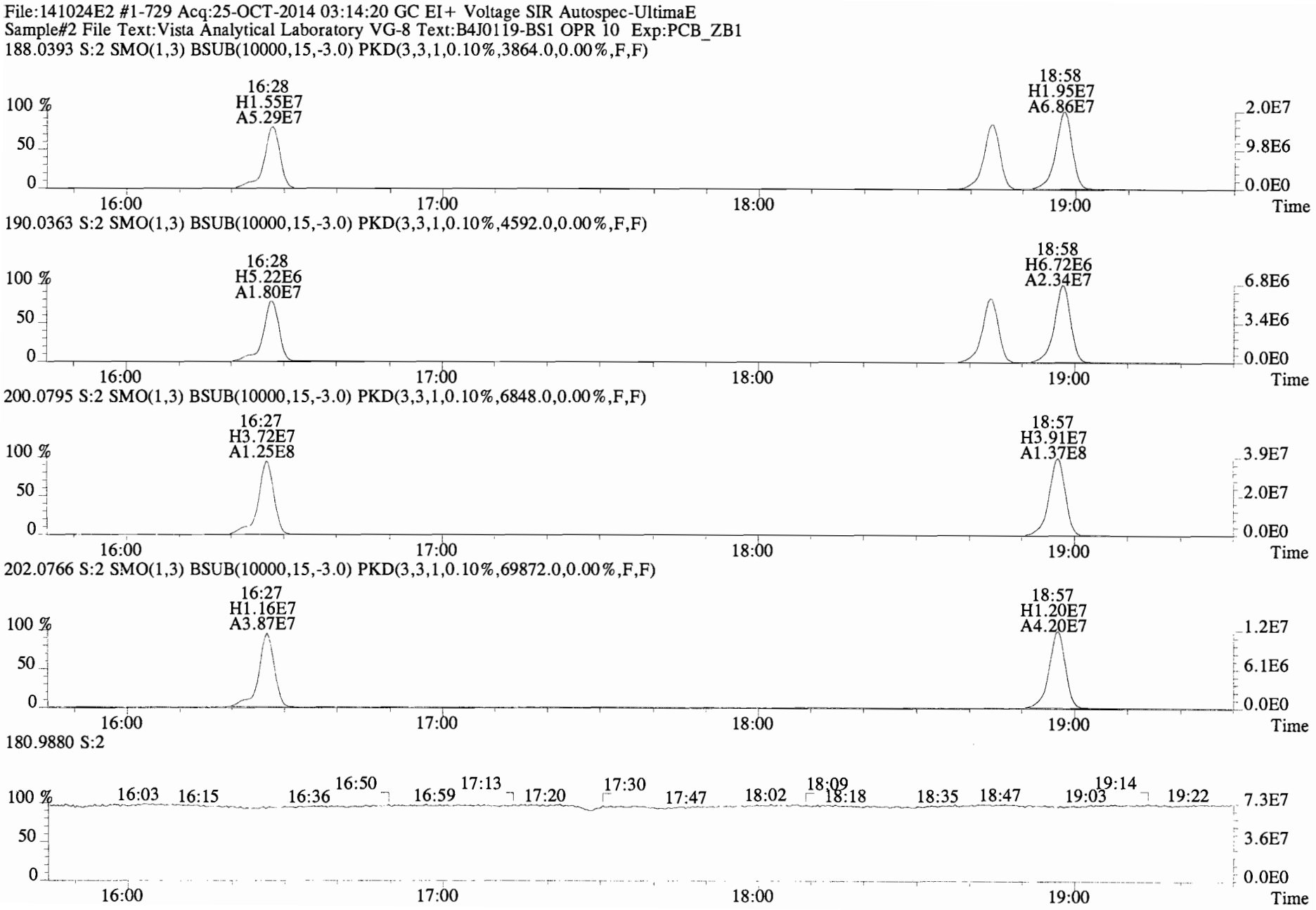
Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.53e+08	0.78	y	1.10	37:43	0.968	0.964	0.974	95.7	95.7
13C-PCB-178	6.59e+07	0.45	y	0.90	45:34	0.925	0.920	0.930	91.4	91.4

RS

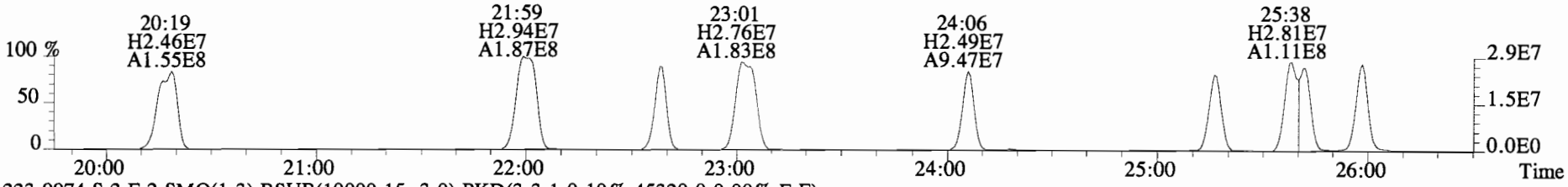
Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	1.84e+08	1.58	y	1.00	25:57	100
13C-PCB-31	1.57e+08	1.04	y	1.00	28:56	100
13C-PCB-60	1.71e+08	0.78	y	1.00	36:41	100
13C-PCB-111	1.36e+08	1.62	y	1.00	39:08	100
13C-PCB-128	1.07e+08	1.25	y	1.00	46:18	100
13C-PCB-205	8.36e+07	0.92	y	1.00	53:55	100

Analyst DMS

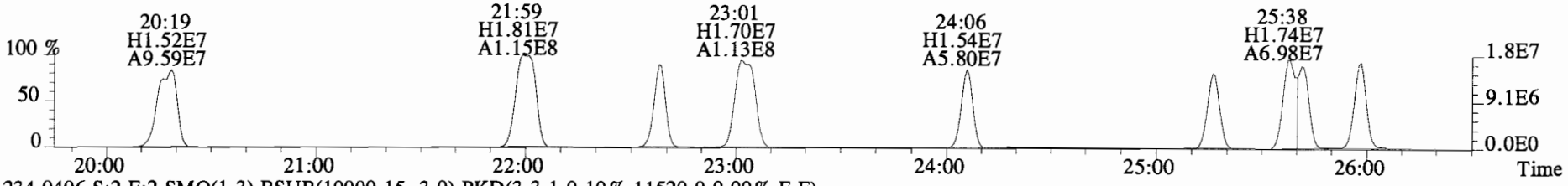
Date: 12/28/14


File:141024E2 #1-729 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
188.0393 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3864.0,0.00%,F,F)
16:28
H1.55E7
A5.29E7
18:58
H1.95E7
A6.86E7
100 %
50
0
2.0E7
9.8E6
0.0E0
16:00
17:00
18:00
19:00
Time
190.0363 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4592.0,0.00%,F,F)
16:28
H5.22E6
A1.80E7
18:58
H6.72E6
A2.34E7
6.8E6
3.4E6
0.0E0
200.0795 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6848.0,0.00%,F,F)
16:27
H3.72E7
A1.25E8
18:57
H3.91E7
A1.37E8
3.9E7
2.0E7
0.0E0
202.0766 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,69872.0,0.00%,F,F)
16:27
H1.16E7
A3.87E7
18:57
H1.20E7
A4.20E7
1.2E7
6.1E6
0.0E0
180.9880 S:2
16:03
16:15
16:36
16:50
16:59
17:13
17:20
17:30
17:47
18:02
18:09
18:18
18:35
18:47
19:03
19:14
19:22
7.3E7
3.6E7
0.0E0

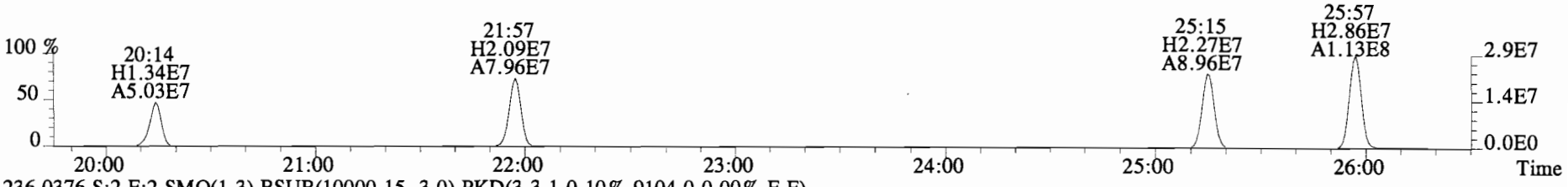
File:141024E2 #1-757 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17968.0,0.00%,F,F)



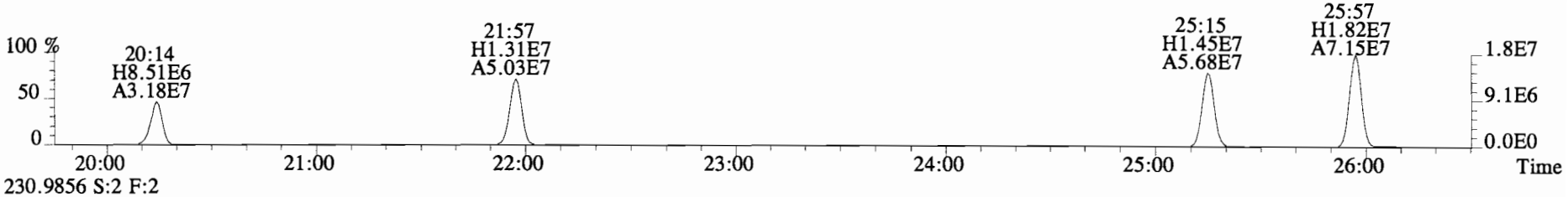
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45320.0,0.00%,F,F)



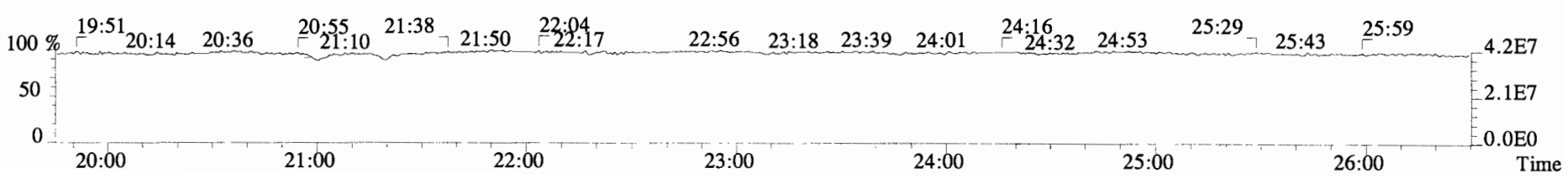
234.0406 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11520.0,0.00%,F,F)



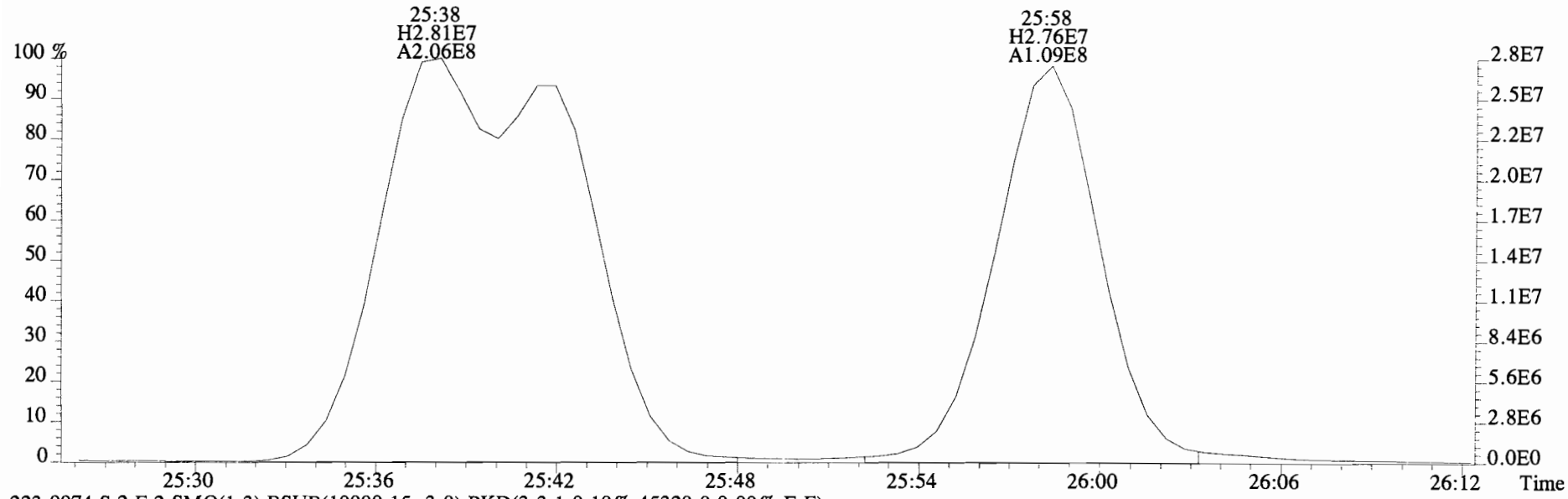
236.0376 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9104.0,0.00%,F,F)



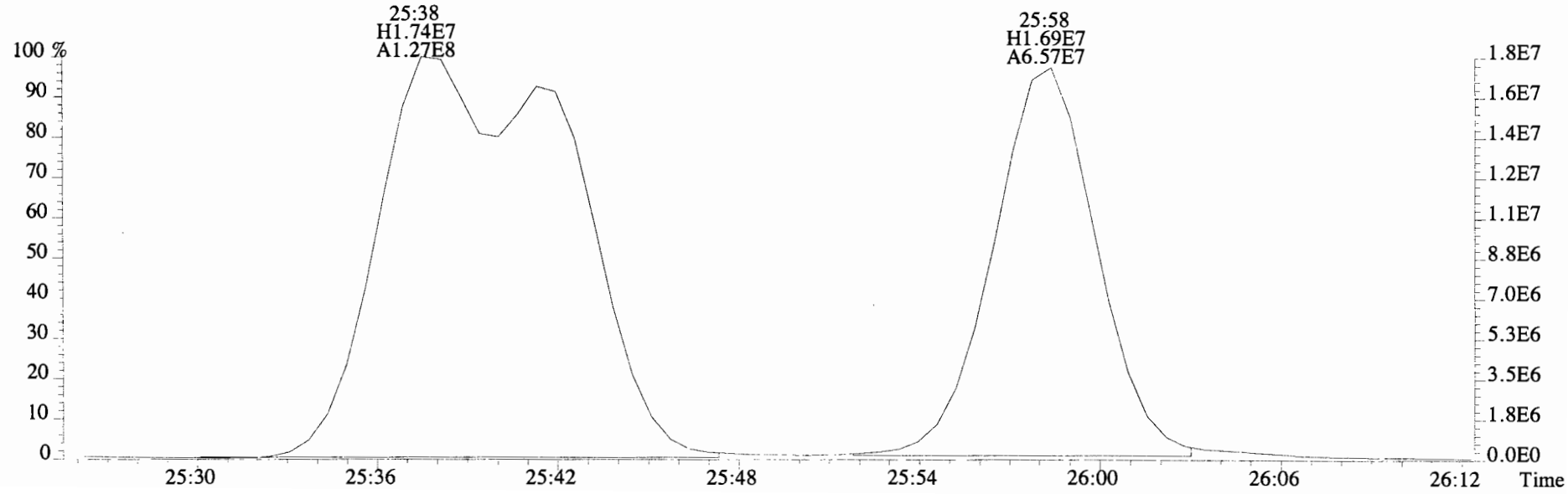
230.9856 S:2 F:2



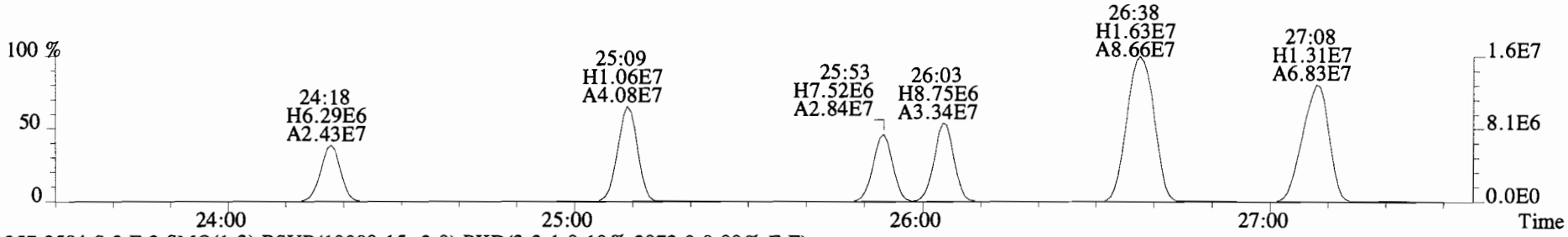
File:141024E2 #1-757 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17968.0,0.00%,F,F)



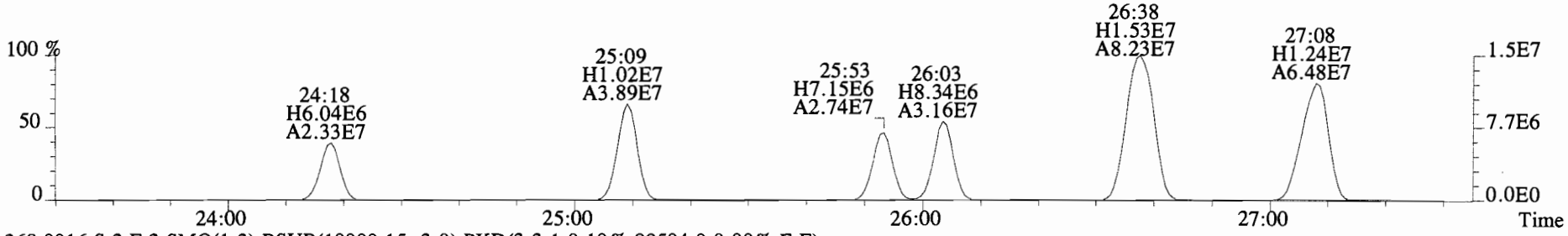
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45320.0,0.00%,F,F)



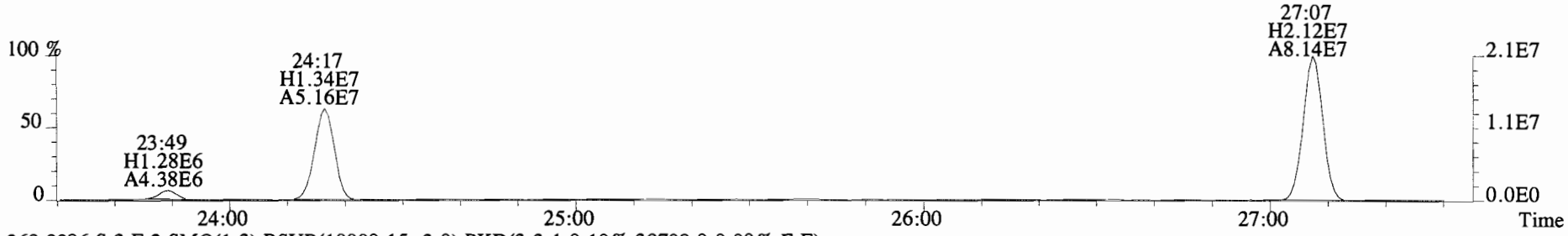
File:141024E2 #1-757 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
255.9613 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4412.0,0.00%,F,F)



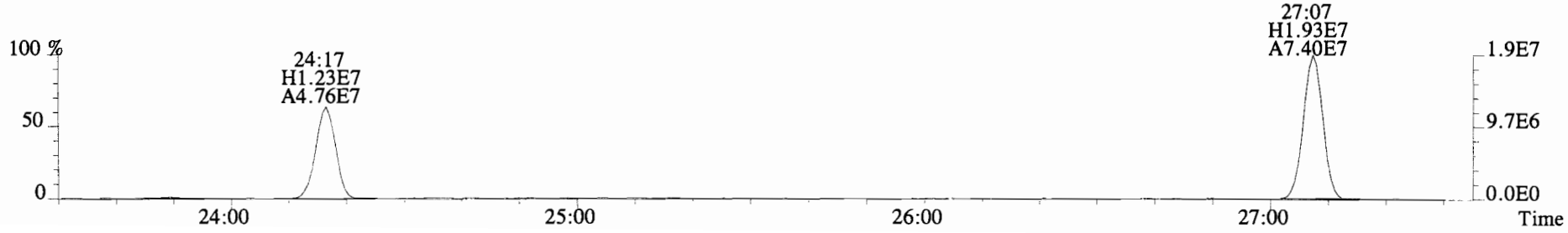
257.9584 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2072.0,0.00%,F,F)

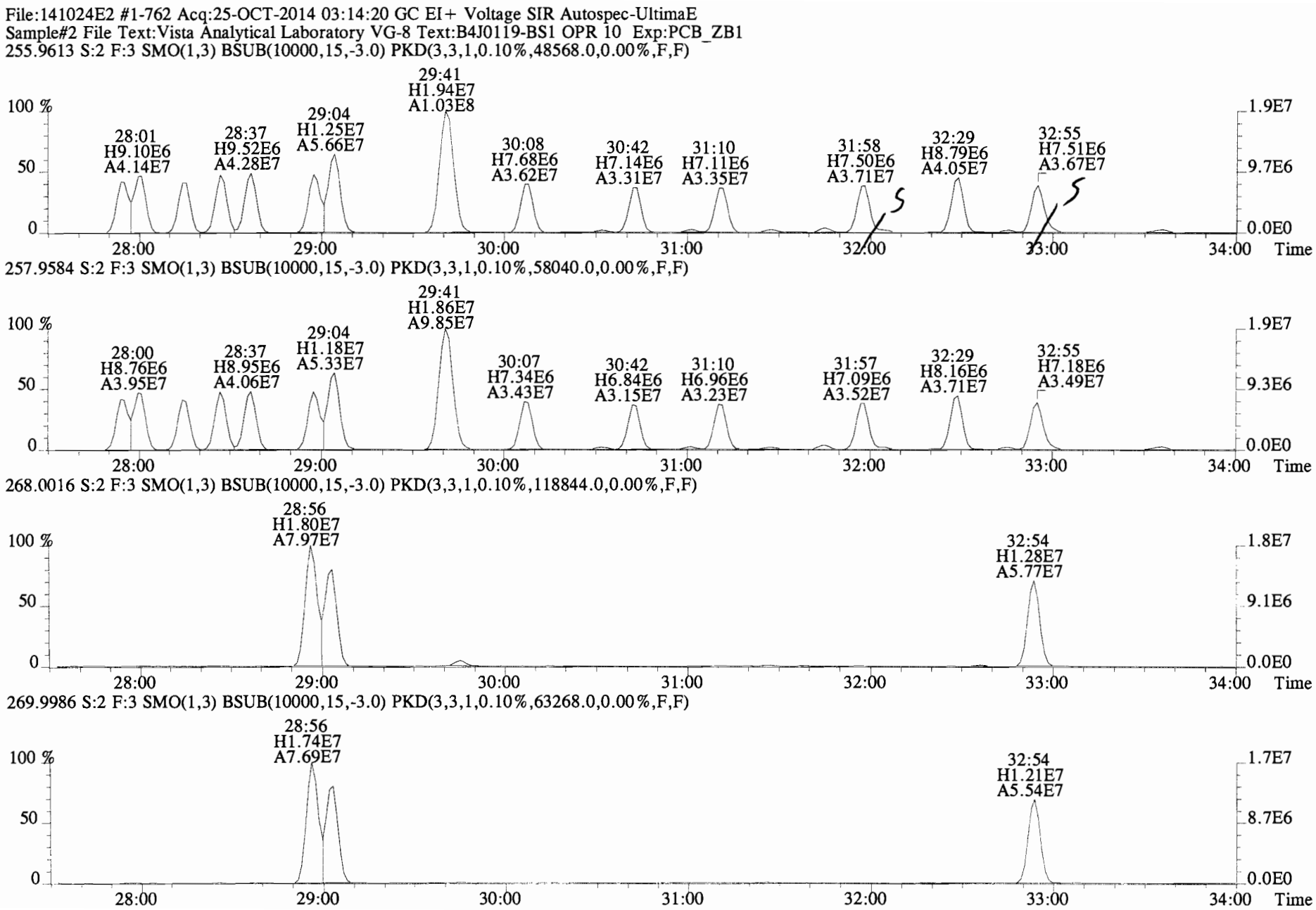


268.0016 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,89504.0,0.00%,F,F)

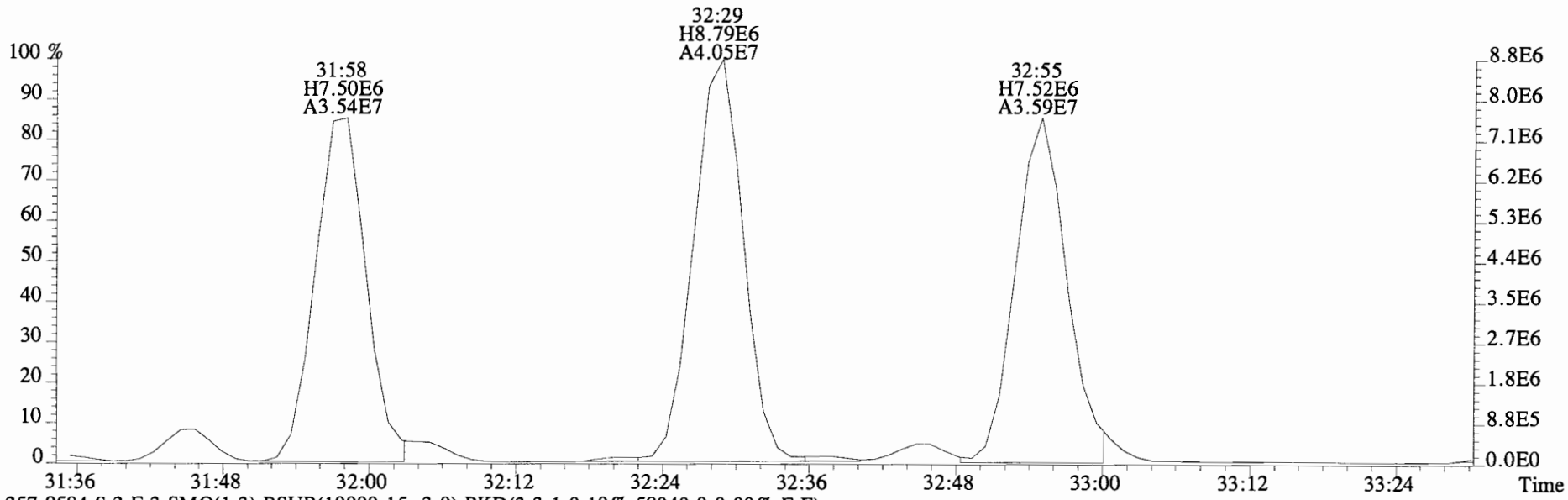


269.9986 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,39708.0,0.00%,F,F)

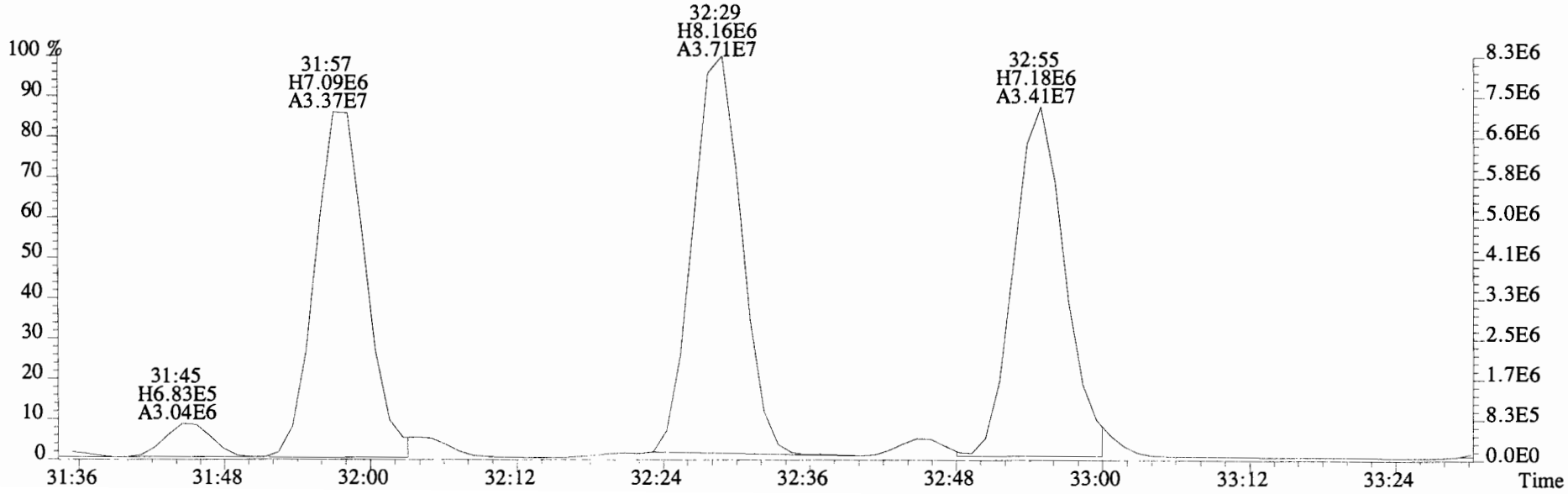



File:141024E2 #1-762 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,48568.0,0.00%,F,F)
29:41 H1.94E7 A1.03E8
28:01 H9.10E6 A4.14E7
28:37 H9.52E6 A4.28E7
29:04 H1.25E7 A5.66E7
30:08 H7.68E6 A3.62E7
30:42 H7.14E6 A3.31E7
31:10 H7.11E6 A3.35E7
31:58 H7.50E6 A3.71E7
32:29 H8.79E6 A4.05E7
32:55 H7.51E6 A3.67E7
257.9584 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,58040.0,0.00%,F,F)
29:41 H1.86E7 A9.85E7
28:00 H8.76E6 A3.95E7
28:37 H8.95E6 A4.06E7
29:04 H1.18E7 A5.33E7
30:07 H7.34E6 A3.43E7
30:42 H6.84E6 A3.15E7
31:10 H6.96E6 A3.23E7
31:57 H7.09E6 A3.52E7
32:29 H8.16E6 A3.71E7
32:55 H7.18E6 A3.49E7
268.0016 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,118844.0,0.00%,F,F)
28:56 H1.80E7 A7.97E7
32:54 H1.28E7 A5.77E7
269.9986 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,63268.0,0.00%,F,F)
28:56 H1.74E7 A7.69E7
32:54 H1.21E7 A5.54E7
100 %
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
Time
1.9E7
9.7E6
0.0E0
9.3E6
1.8E7
9.1E6
1.7E7
8.7E6

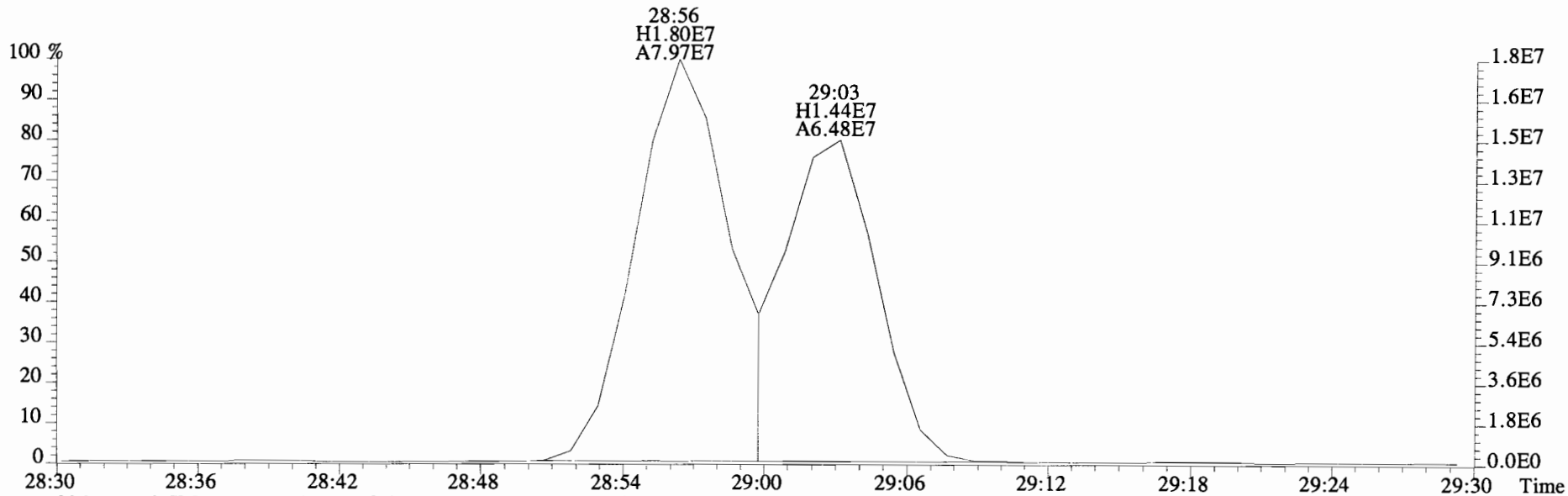
File:141024E2 #1-762 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,48568.0,0.00%,F,F)



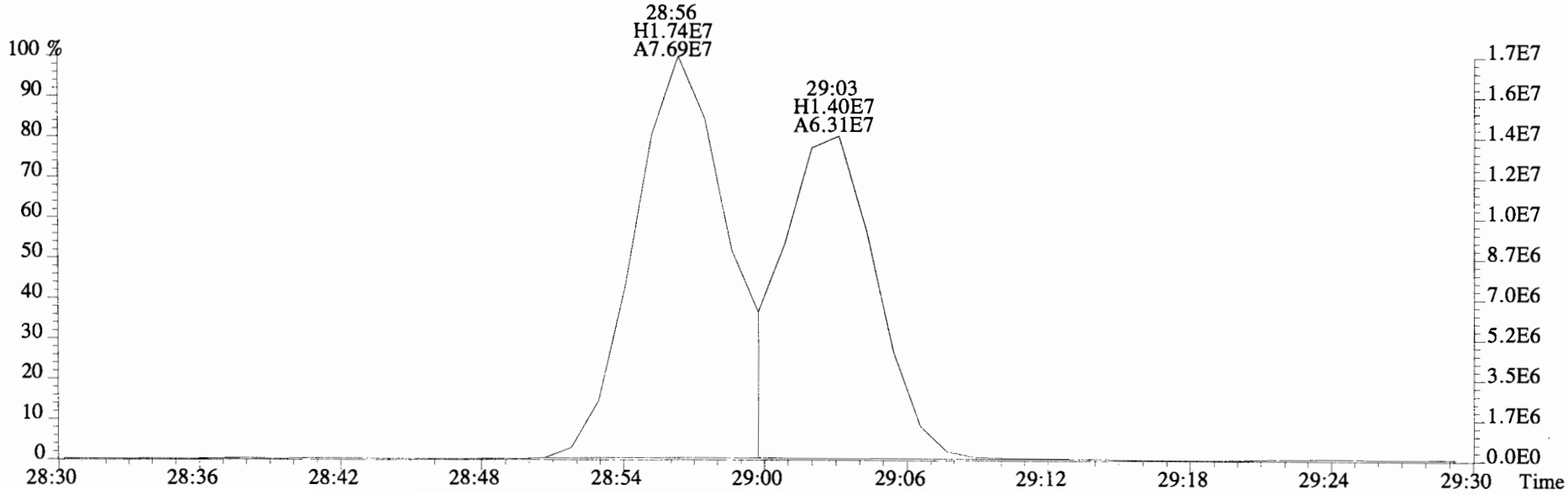
257.9584 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,58040.0,0.00%,F,F)



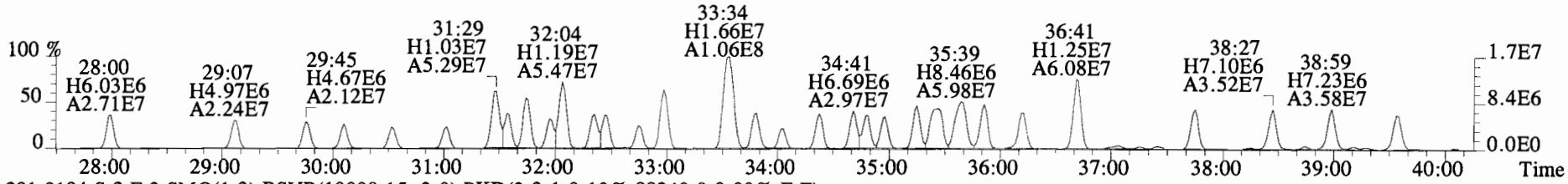
File:141024E2 #1-762 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
268.0016 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,118844.0,0.00%,F,F)



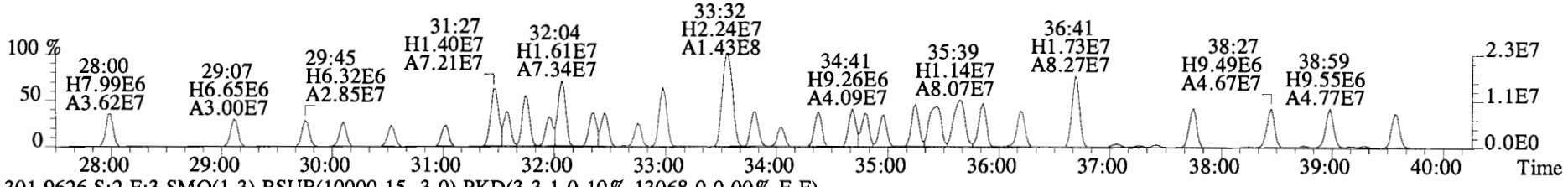
269.9986 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,63268.0,0.00%,F,F)



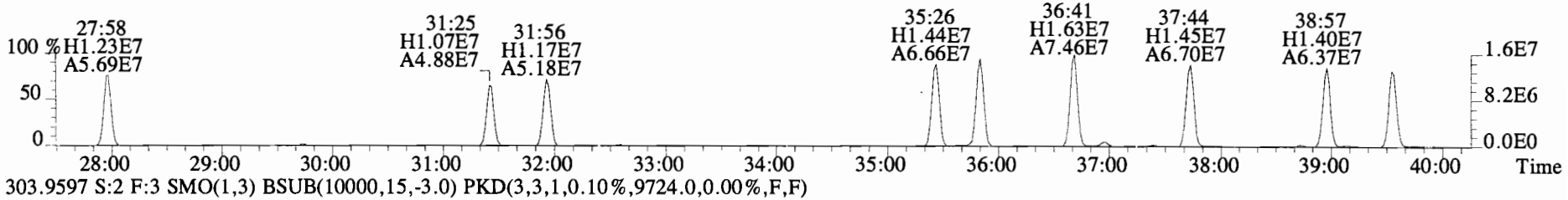
File:141024E2 #1-762 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,50064.0,0.00%,F,F)



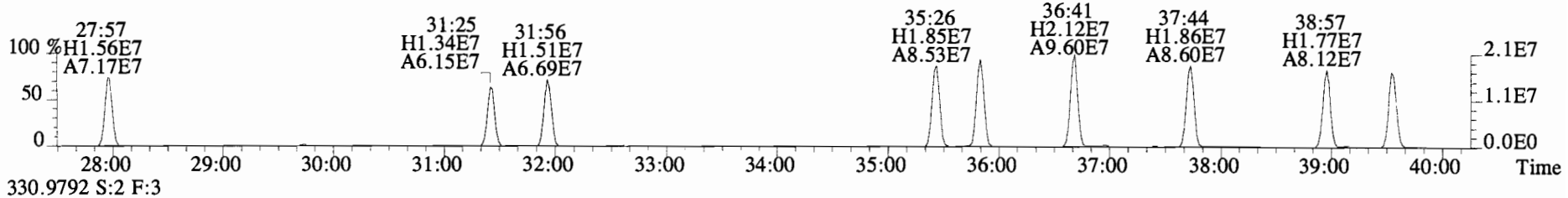
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,88240.0,0.00%,F,F)



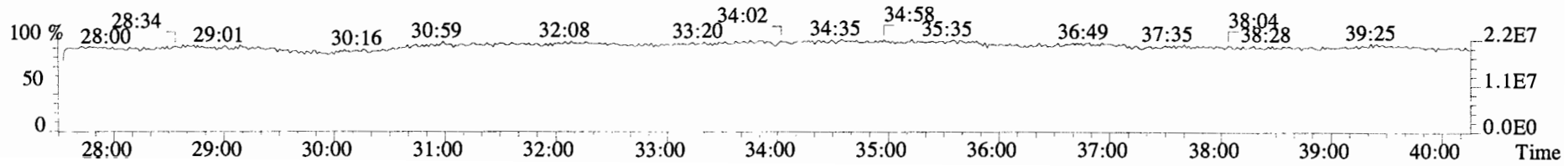
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13068.0,0.00%,F,F)



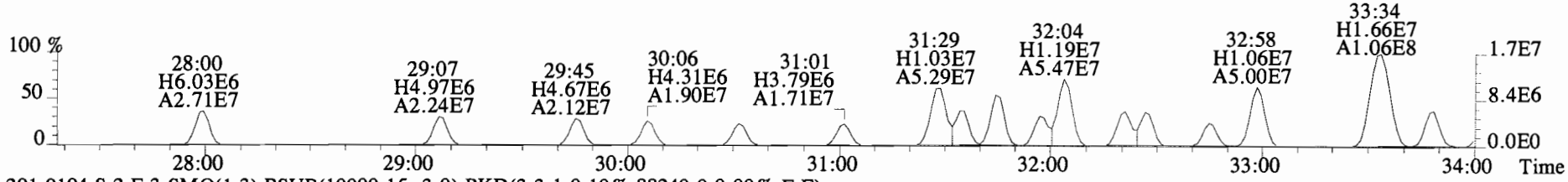
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9724.0,0.00%,F,F)



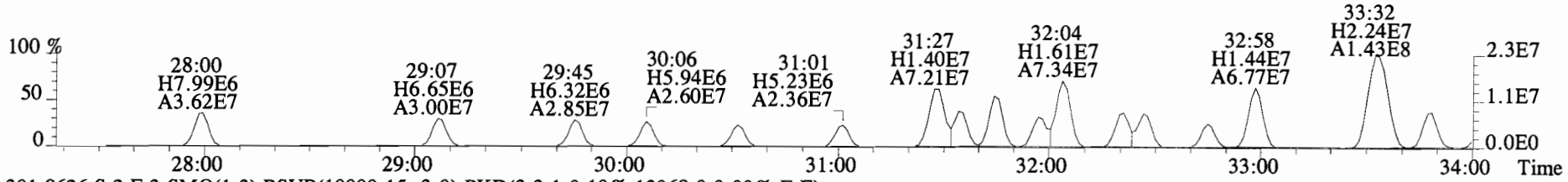
330.9792 S:2 F:3



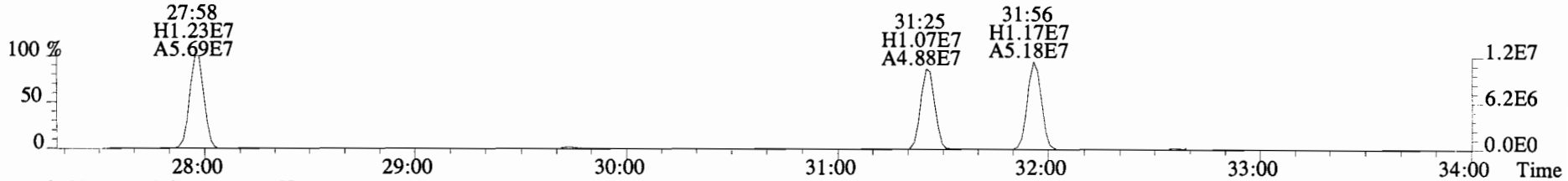
File:141024E2 #1-762 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,50064.0,0.00%,F,F)



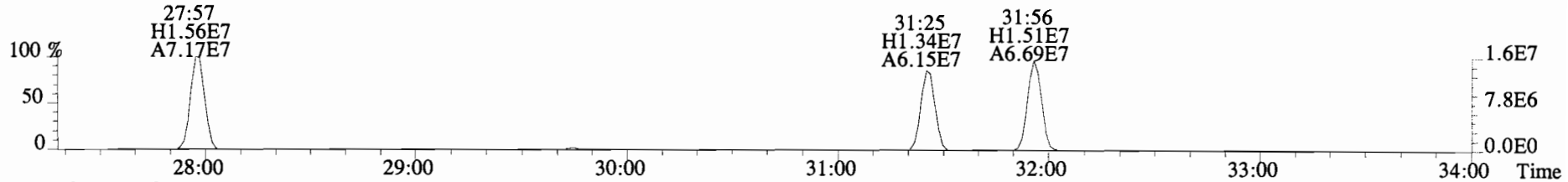
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,88240.0,0.00%,F,F)



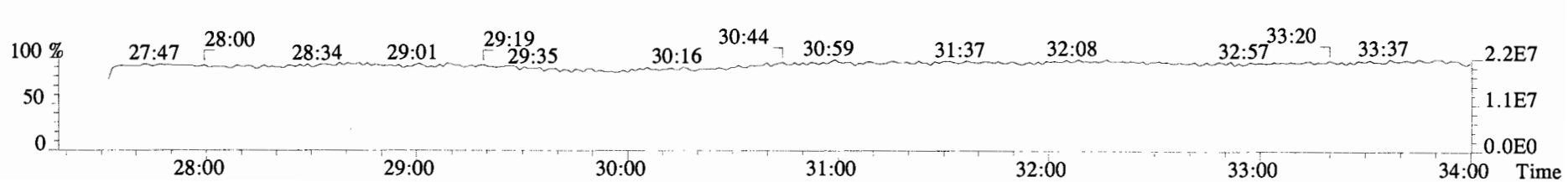
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13068.0,0.00%,F,F)

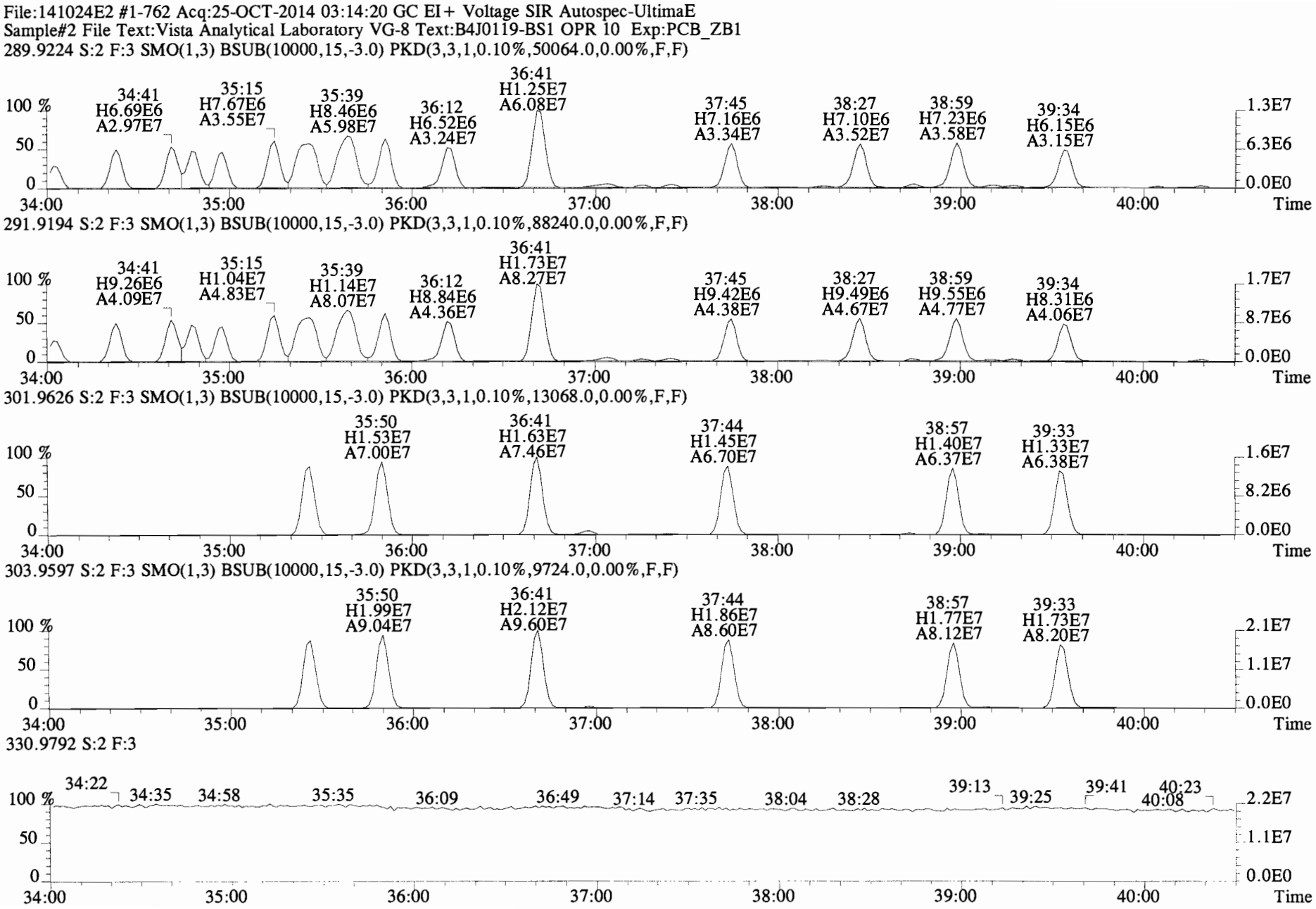


303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9724.0,0.00%,F,F)

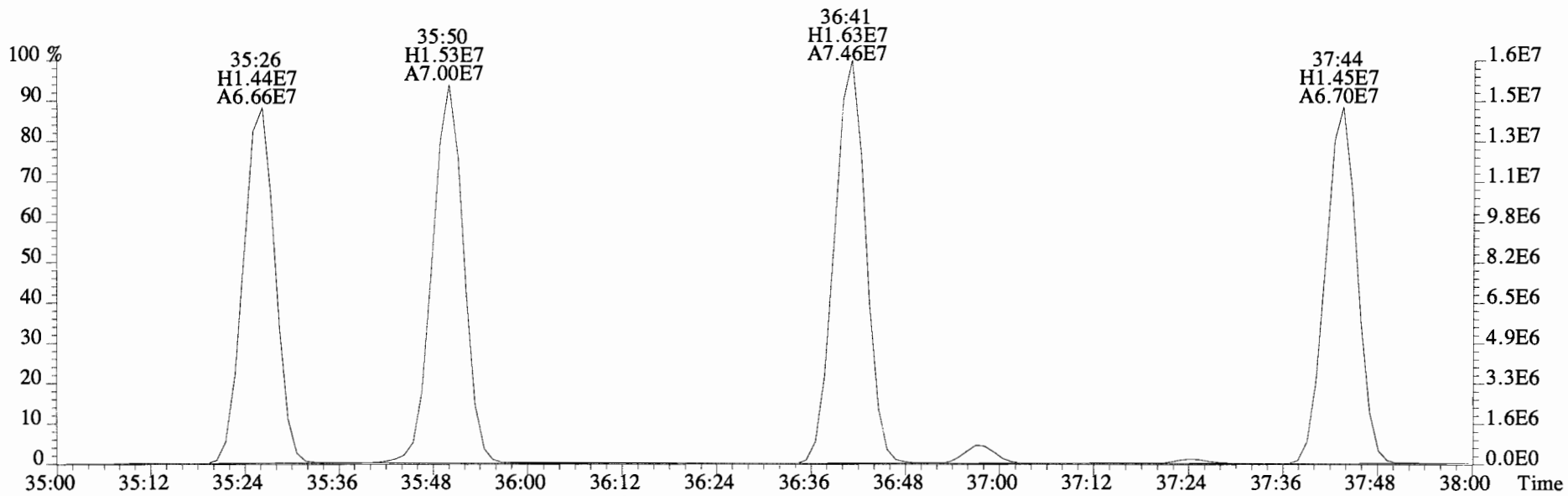


330.9792 S:2 F:3

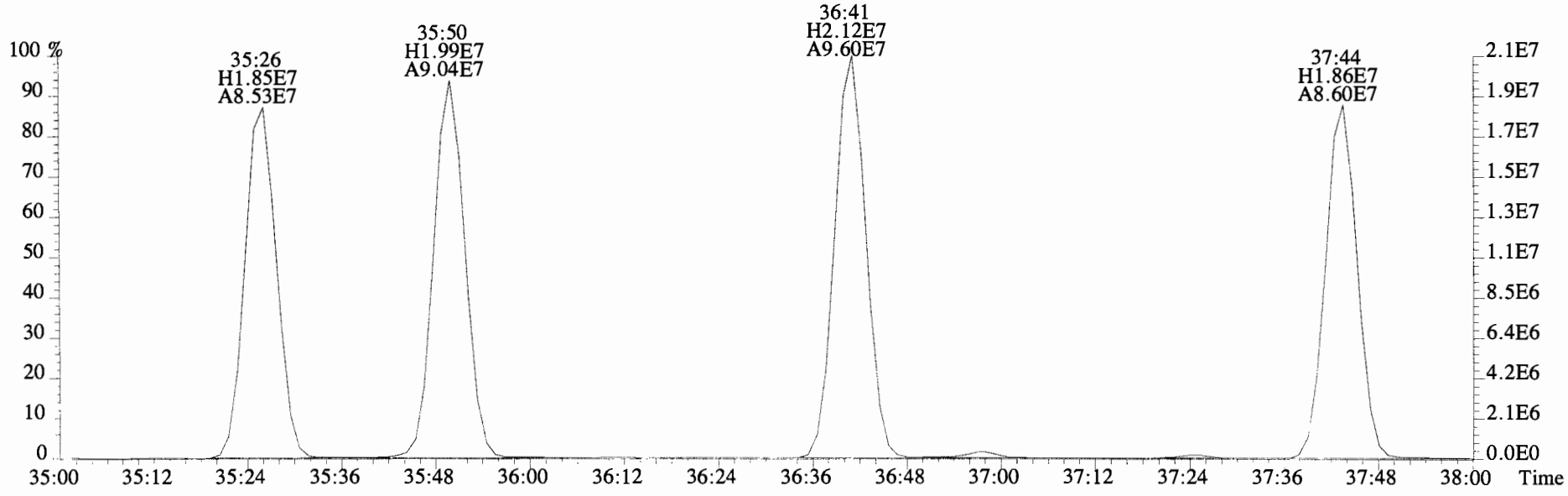


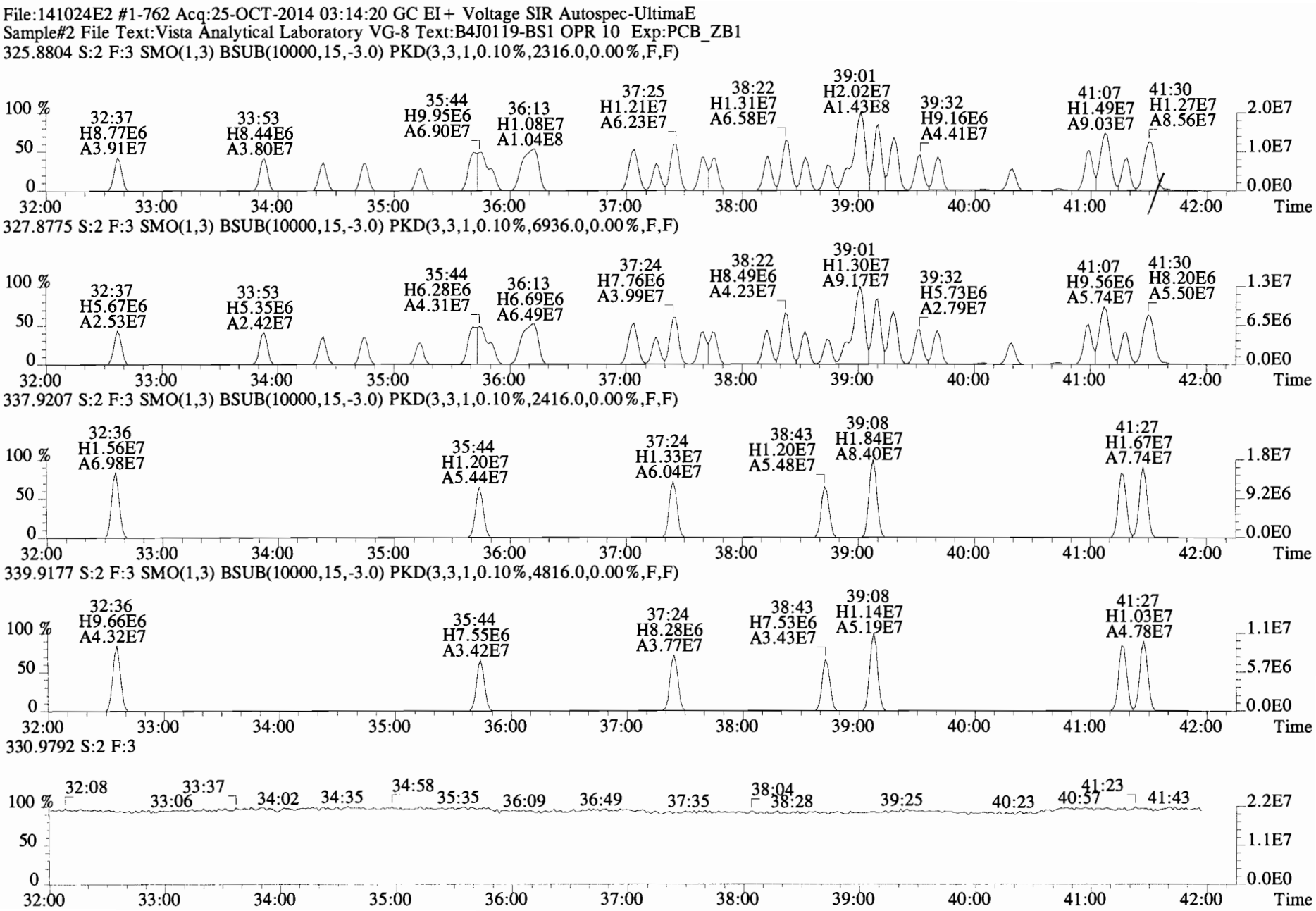

File:141024E2 #1-762 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,50064.0,0.00%,F,F)
34:41 H6.69E6 A2.97E7
35:15 H7.67E6 A3.55E7
35:39 H8.46E6 A5.98E7
36:12 H6.52E6 A3.24E7
36:41 H1.25E7 A6.08E7
37:45 H7.16E6 A3.34E7
38:27 H7.10E6 A3.52E7
38:59 H7.23E6 A3.58E7
39:34 H6.15E6 A3.15E7
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,88240.0,0.00%,F,F)
34:41 H9.26E6 A4.09E7
35:15 H1.04E7 A4.83E7
35:39 H1.14E7 A8.07E7
36:12 H8.84E6 A4.36E7
36:41 H1.73E7 A8.27E7
37:45 H9.42E6 A4.38E7
38:27 H9.49E6 A4.67E7
38:59 H9.55E6 A4.77E7
39:34 H8.31E6 A4.06E7
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13068.0,0.00%,F,F)
35:50 H1.53E7 A7.00E7
36:41 H1.63E7 A7.46E7
37:44 H1.45E7 A6.70E7
38:57 H1.40E7 A6.37E7
39:33 H1.33E7 A6.38E7
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9724.0,0.00%,F,F)
35:50 H1.99E7 A9.04E7
36:41 H2.12E7 A9.60E7
37:44 H1.86E7 A8.60E7
38:57 H1.77E7 A8.12E7
39:33 H1.73E7 A8.20E7
330.9792 S:2 F:3
34:22
34:35
34:58
35:35
36:09
36:49
37:14
37:35
38:04
38:28
39:13
39:25
39:41
40:23
40:08
100 %
50
0
34:00
35:00
36:00
37:00
38:00
39:00
40:00
Time
1.3E7
6.3E6
0.0E0
1.7E7
8.7E6
1.6E7
8.2E6
2.1E7
1.1E7
2.2E7

File:141024E2 #1-762 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13068.0,0.00%,F,F)

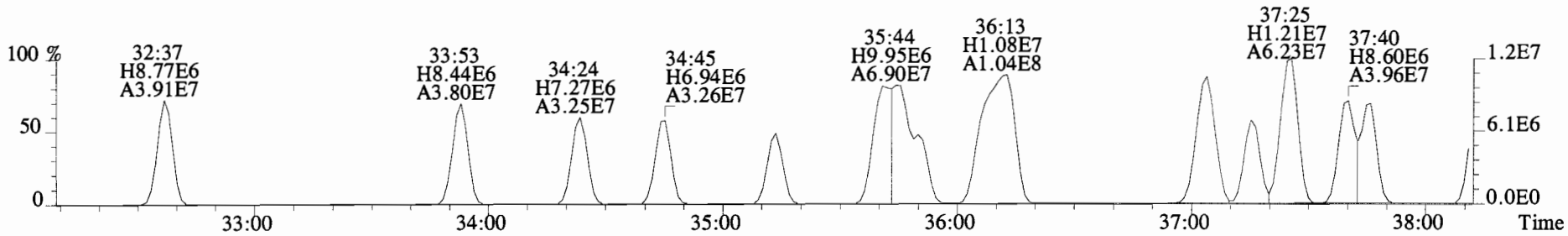


303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9724.0,0.00%,F,F)

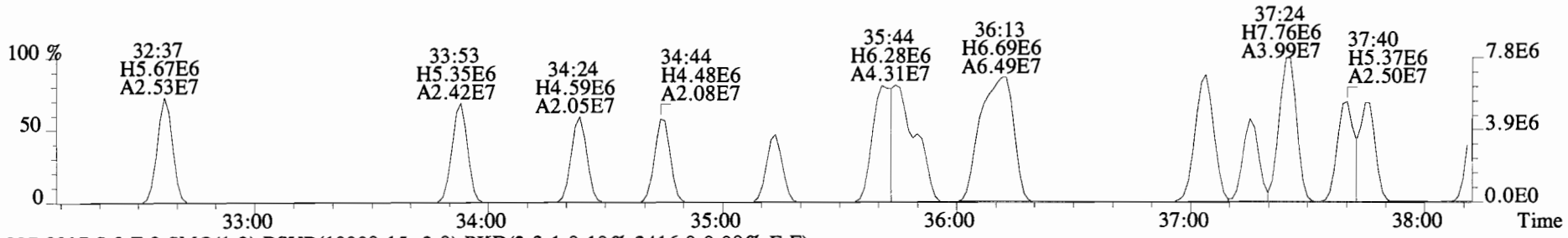



File:141024E2 #1-762 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2316.0,0.00%,F,F)
32:37 H8.77E6 A3.91E7
33:53 H8.44E6 A3.80E7
35:44 H9.95E6 A6.90E7
36:13 H1.08E7 A1.04E8
37:25 H1.21E7 A6.23E7
38:22 H1.31E7 A6.58E7
39:01 H2.02E7 A1.43E8
39:32 H9.16E6 A4.41E7
41:07 H1.49E7 A9.03E7
41:30 H1.27E7 A8.56E7
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6936.0,0.00%,F,F)
32:37 H5.67E6 A2.53E7
33:53 H5.35E6 A2.42E7
35:44 H6.28E6 A4.31E7
36:13 H6.69E6 A6.49E7
37:24 H7.76E6 A3.99E7
38:22 H8.49E6 A4.23E7
39:01 H1.30E7 A9.17E7
39:32 H5.73E6 A2.79E7
41:07 H9.56E6 A5.74E7
41:30 H8.20E6 A5.50E7
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2416.0,0.00%,F,F)
32:36 H1.56E7 A6.98E7
35:44 H1.20E7 A5.44E7
37:24 H1.33E7 A6.04E7
38:43 H1.20E7 A5.48E7
39:08 H1.84E7 A8.40E7
41:27 H1.67E7 A7.74E7
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4816.0,0.00%,F,F)
32:36 H9.66E6 A4.32E7
35:44 H7.55E6 A3.42E7
37:24 H8.28E6 A3.77E7
38:43 H7.53E6 A3.43E7
39:08 H1.14E7 A5.19E7
41:27 H1.03E7 A4.78E7
330.9792 S:2 F:3
32:08
33:06
33:37
34:02
34:35
34:58
35:35
36:09
36:49
37:35
38:04
38:28
39:25
40:23
40:57
41:23
41:43
100 %
50
0
32:00
33:00
34:00
35:00
36:00
37:00
38:00
39:00
40:00
41:00
42:00
Time
2.0E7
1.0E7
0.0E0
1.3E7
6.5E6
1.8E7
9.2E6
1.1E7
5.7E6
2.2E7
1.1E7

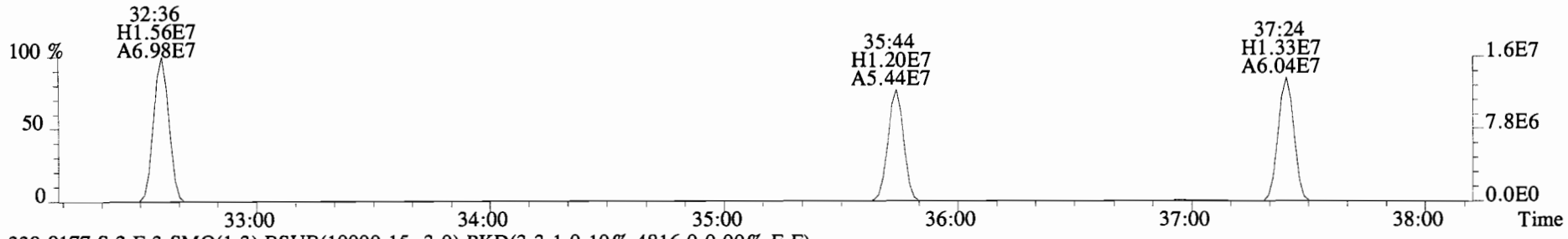
File:141024E2 #1-762 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2316.0,0.00%,F,F)



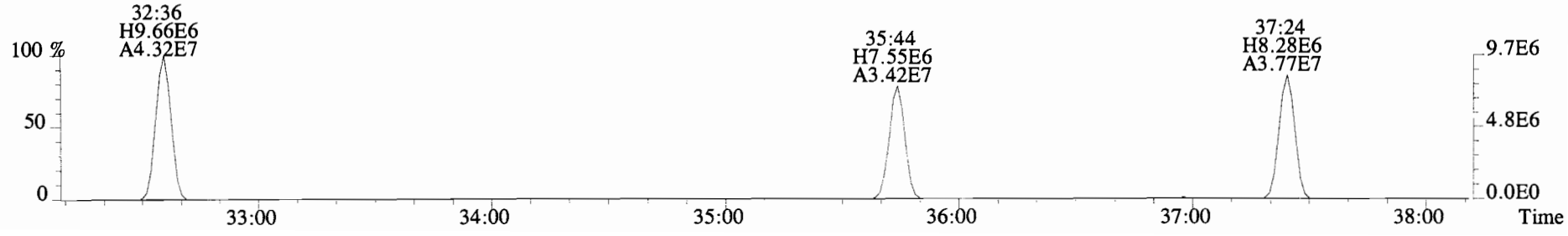
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6936.0,0.00%,F,F)



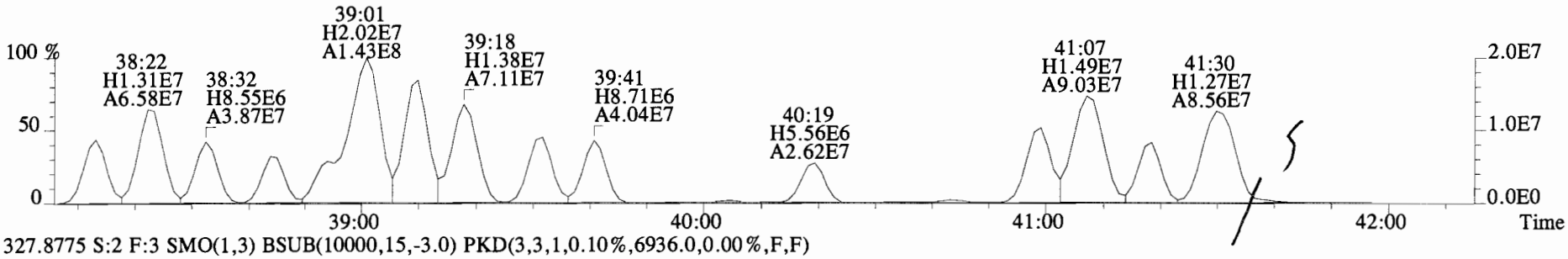
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2416.0,0.00%,F,F)



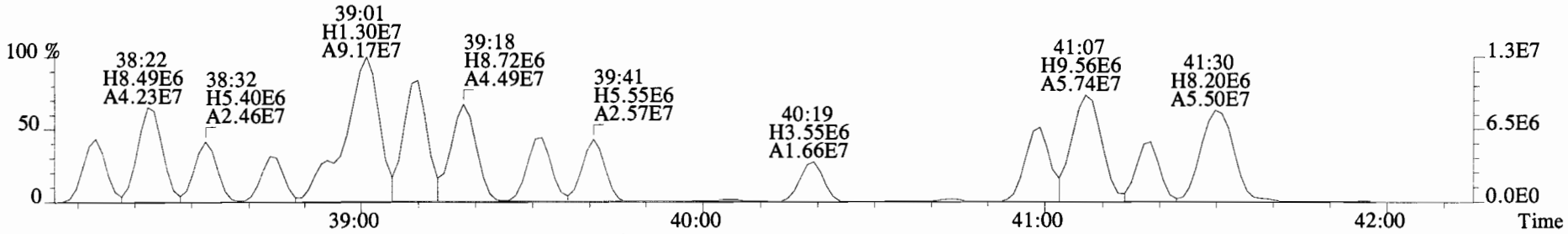
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4816.0,0.00%,F,F)



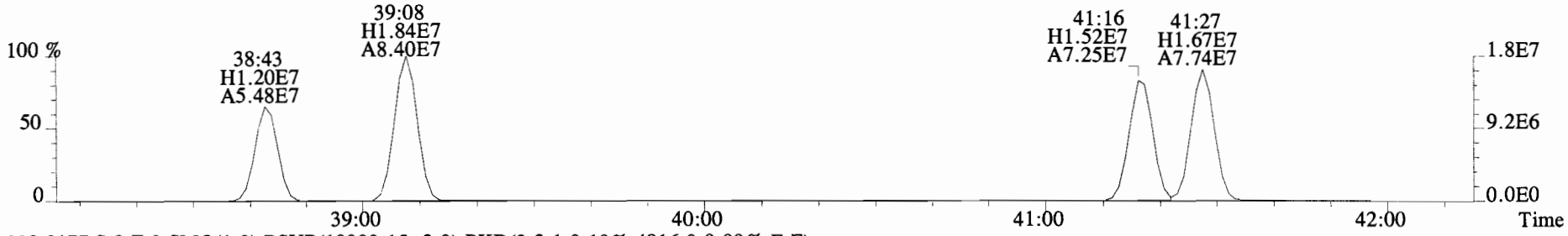
File:141024E2 #1-762 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2316.0,0.00%,F,F)



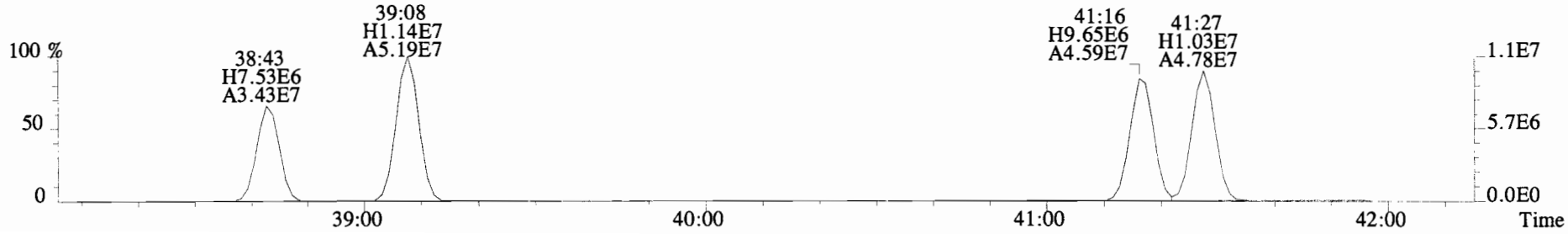
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6936.0,0.00%,F,F)



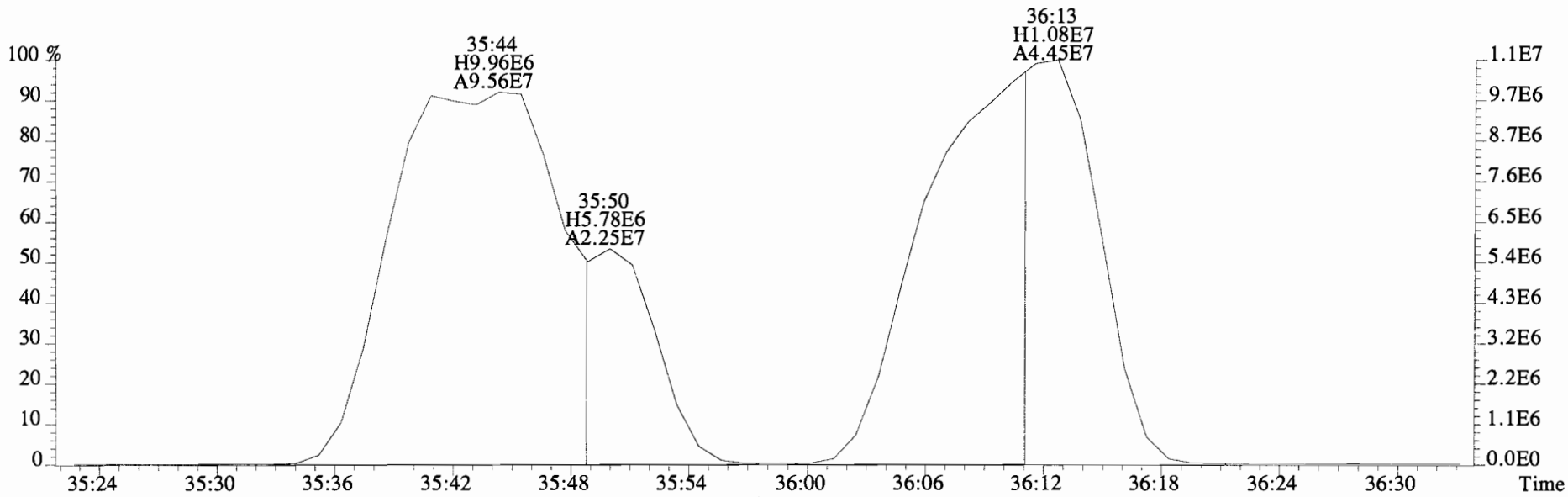
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2416.0,0.00%,F,F)



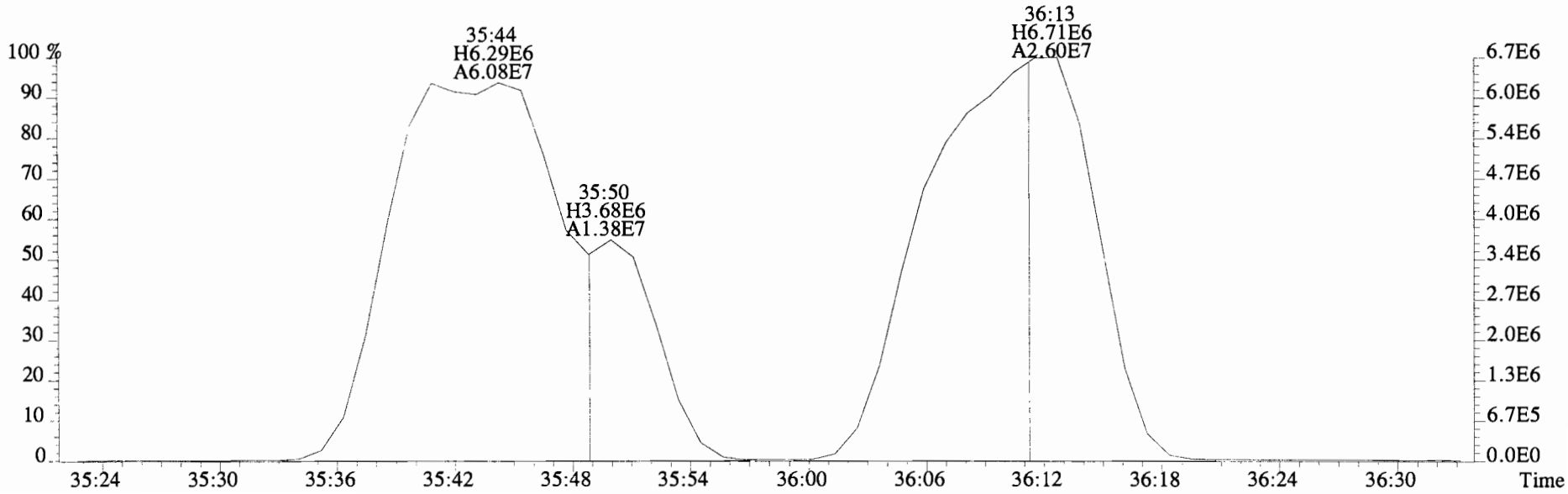
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4816.0,0.00%,F,F)



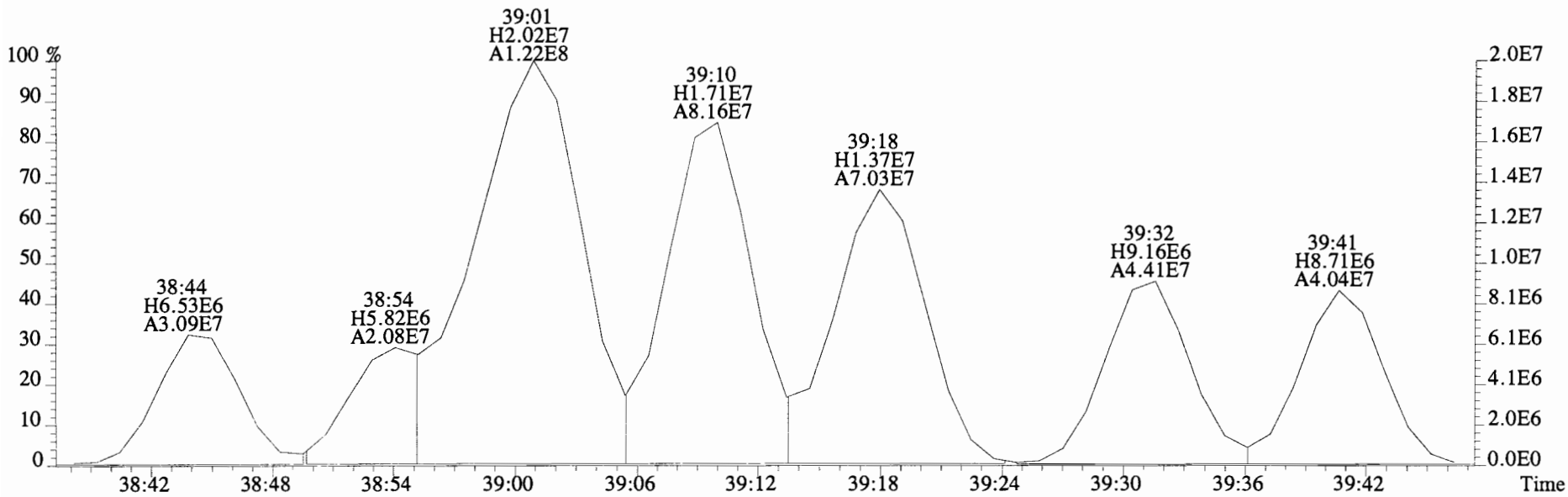
File:141024E2 #1-762 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2316.0,0.00%,F,F)



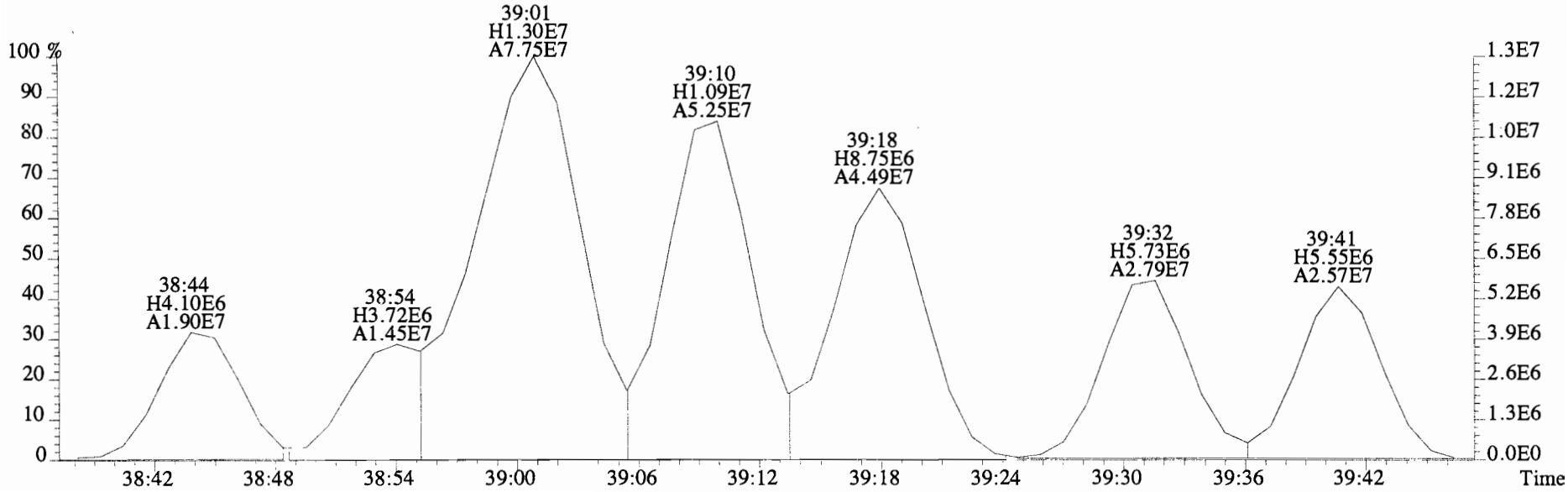
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6936.0,0.00%,F,F)



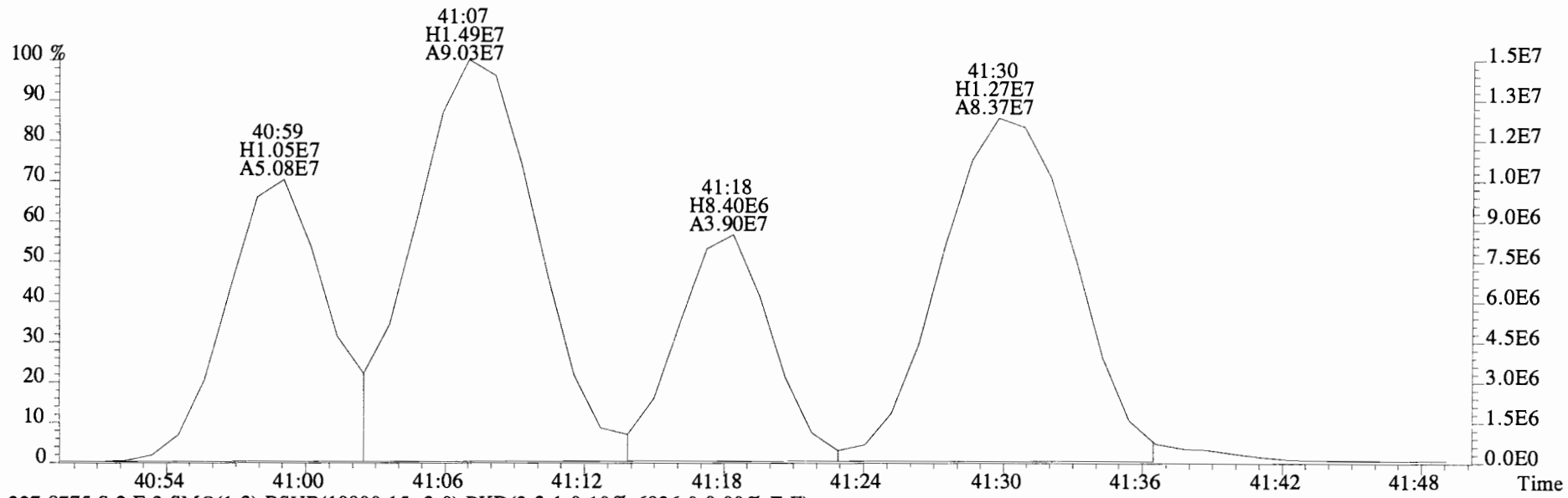
File:141024E2 #1-762 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2316.0,0.00%,F,F)



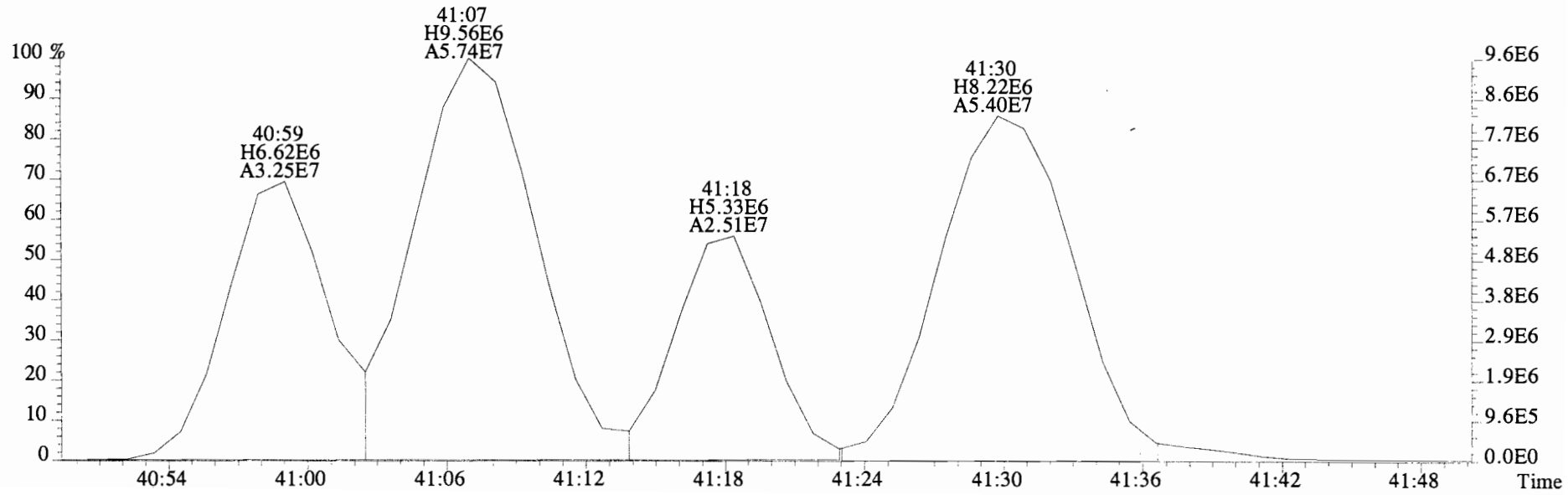
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6936.0,0.00%,F,F)



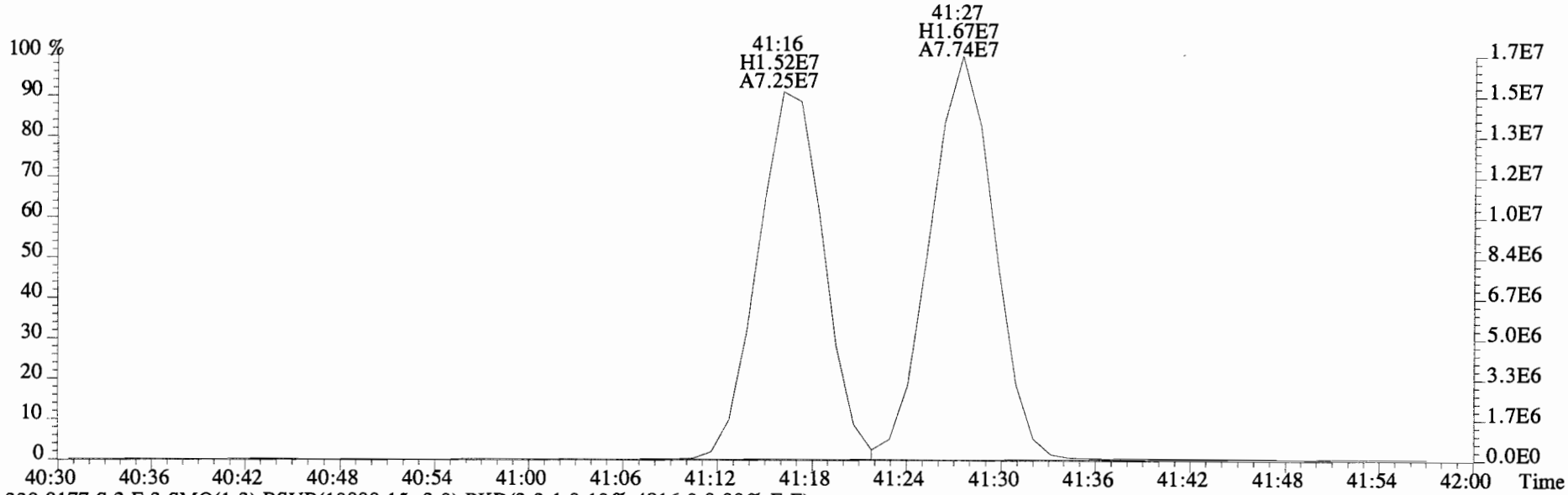
File:141024E2 #1-762 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2316.0,0.00%,F,F)



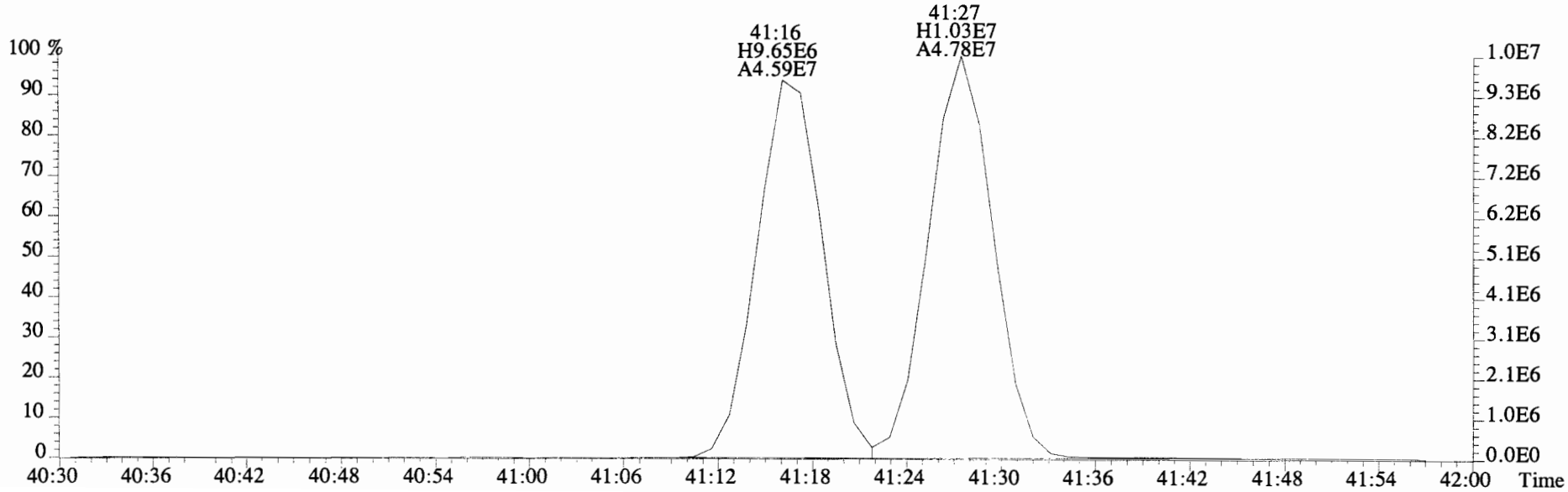
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6936.0,0.00%,F,F)



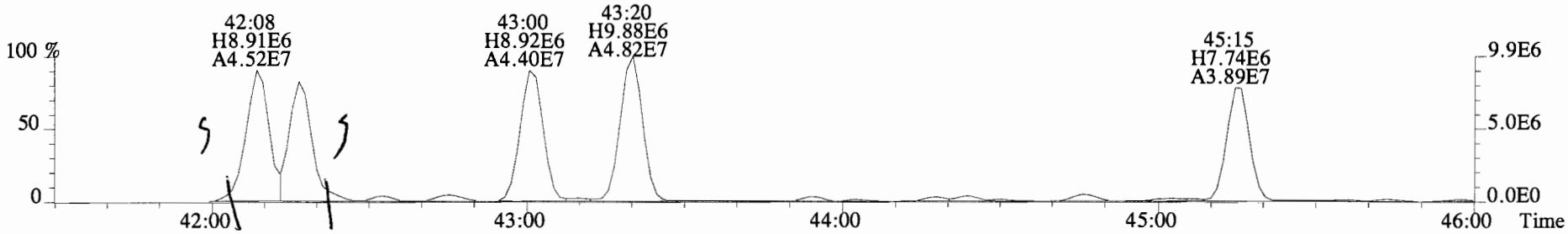
File:141024E2 #1-762 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2416.0,0.00%,F,F)



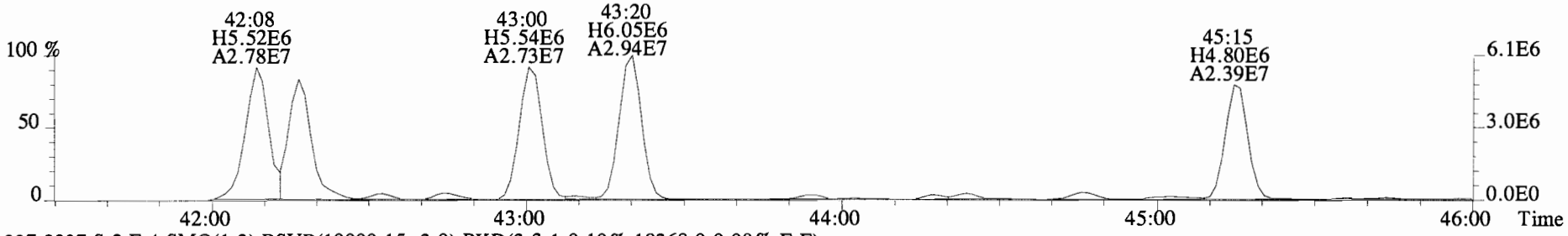
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4816.0,0.00%,F,F)



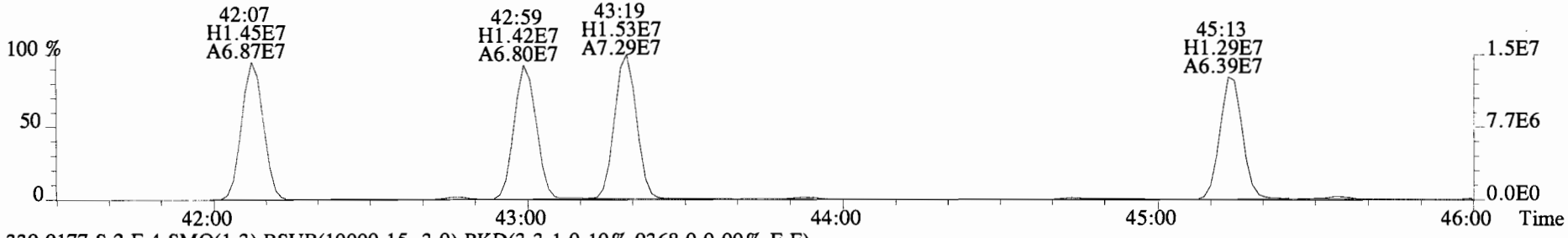
File:141024E2 #1-546 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21916.0,0.00%,F,F)



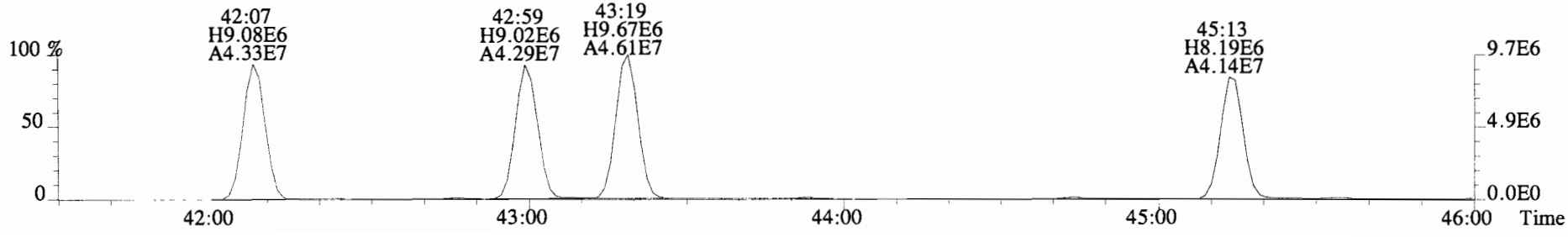
327.8775 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16380.0,0.00%,F,F)



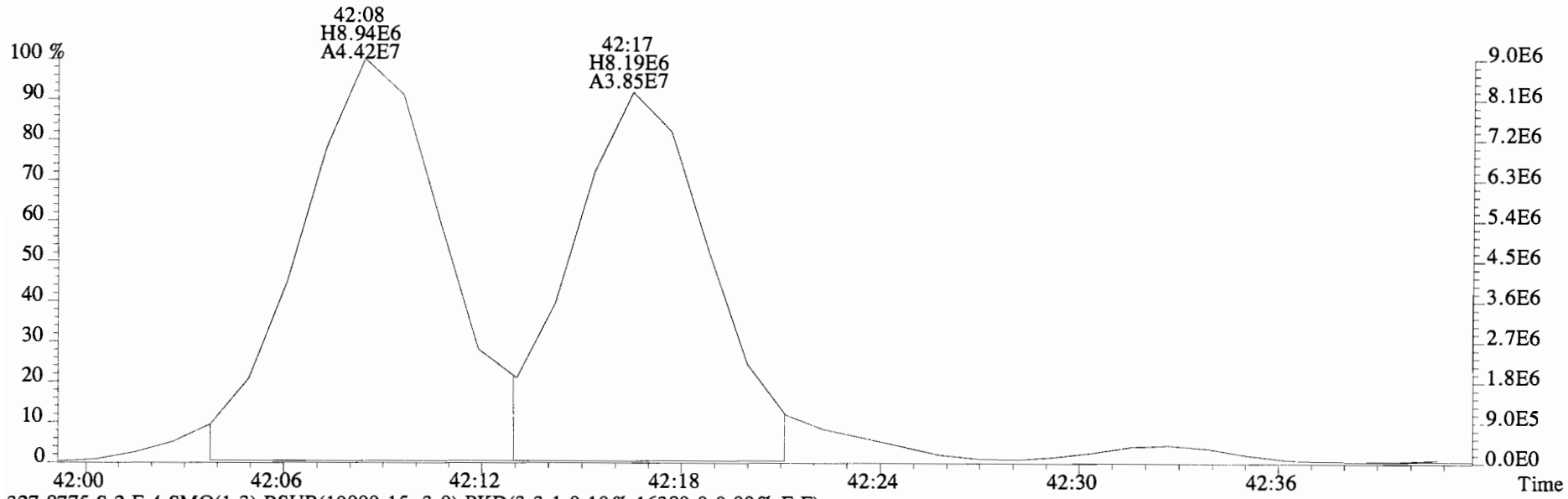
337.9207 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,18368.0,0.00%,F,F)



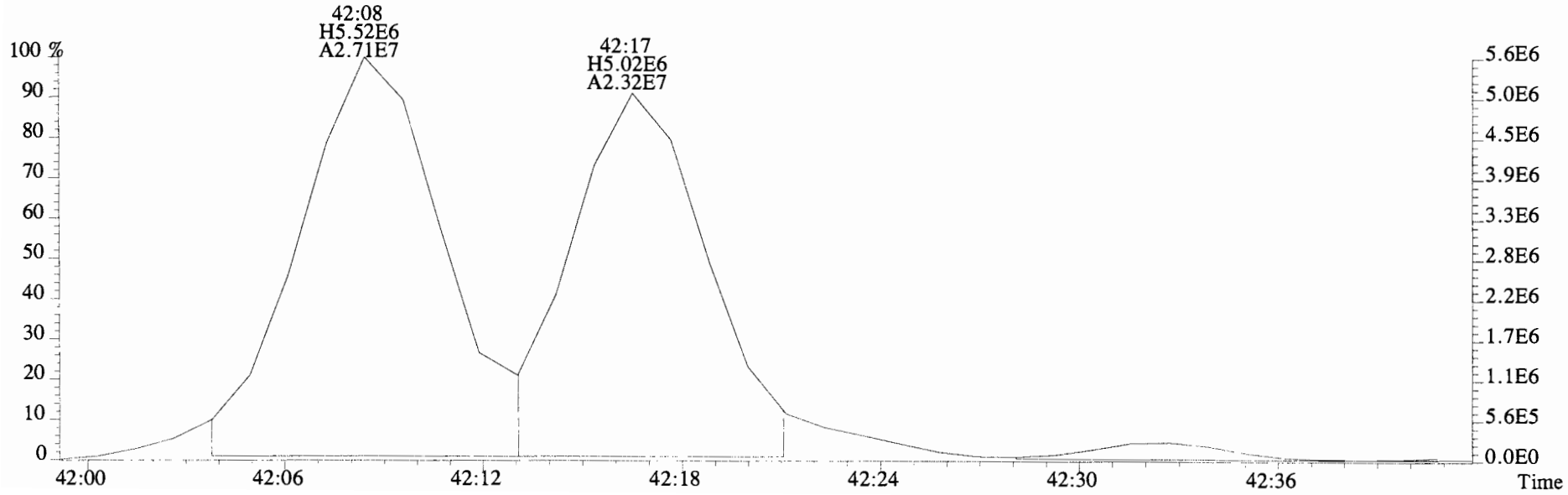
339.9177 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9368.0,0.00%,F,F)



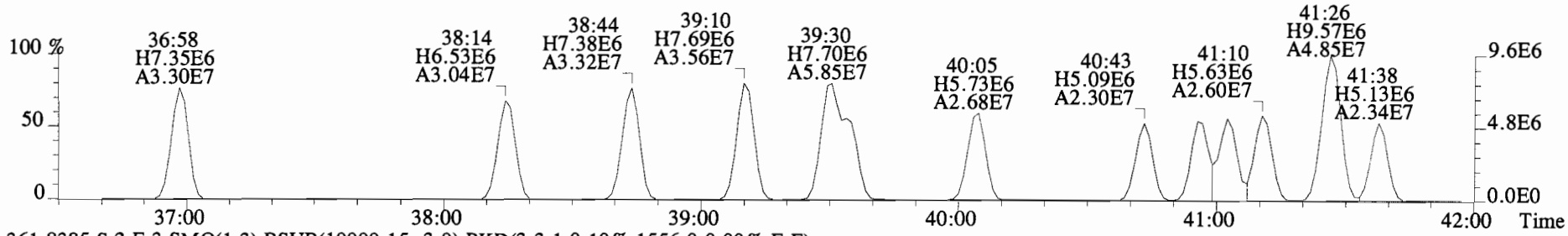
File:141024E2 #1-546 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21916.0,0.00%,F,F)



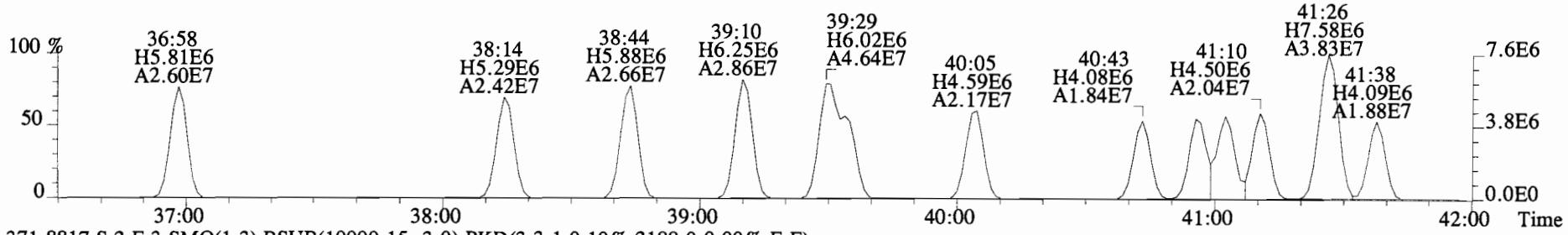
327.8775 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16380.0,0.00%,F,F)



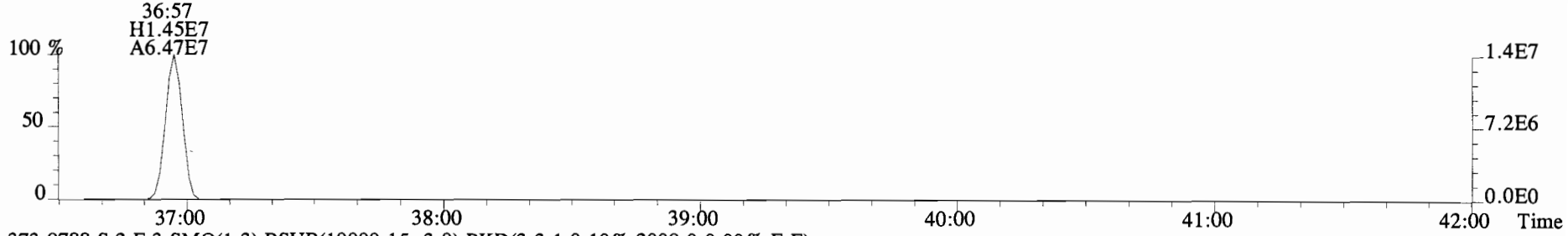
File:141024E2 #1-762 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1572.0,0.00%,F,F)



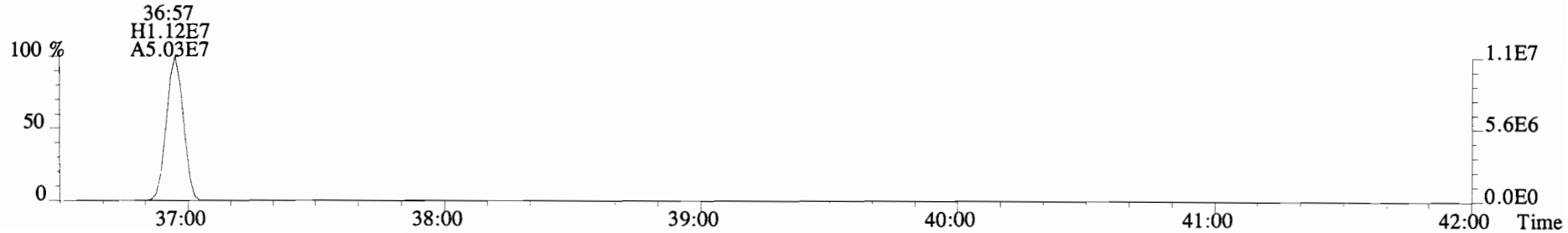
361.8385 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1556.0,0.00%,F,F)



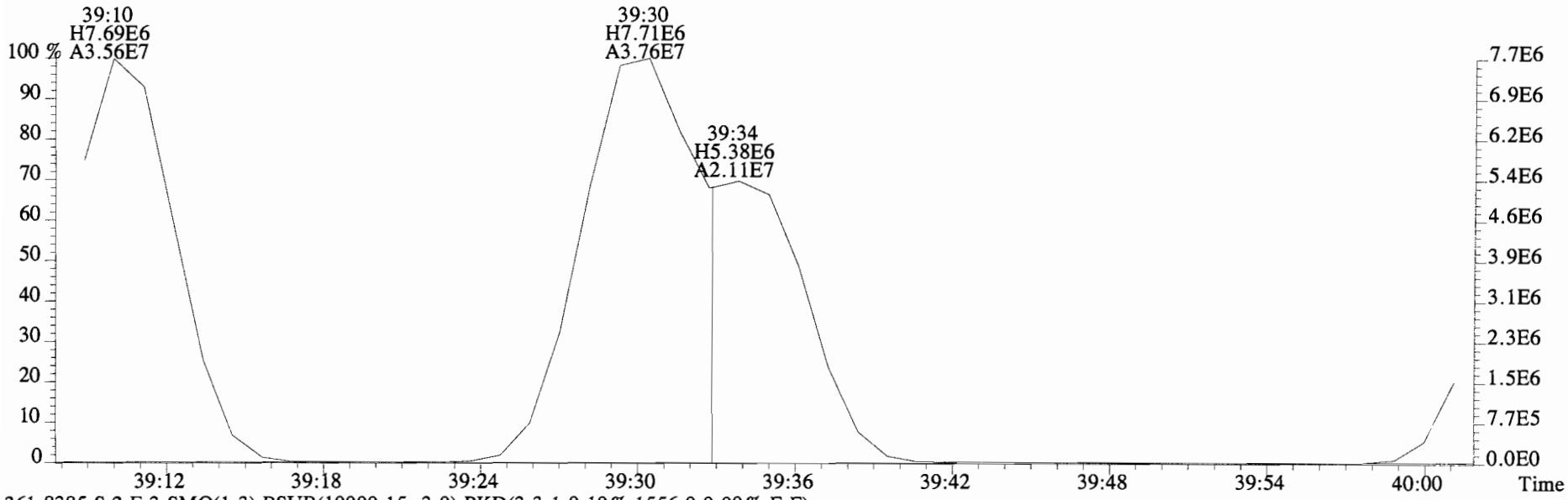
371.8817 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2188.0,0.00%,F,F)



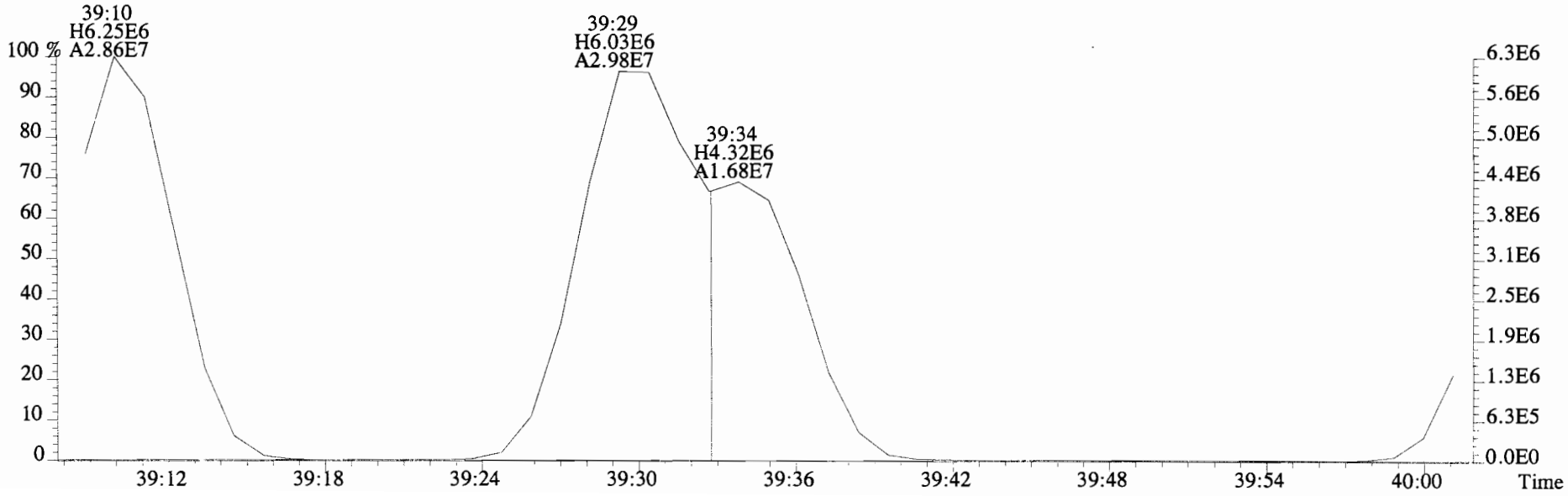
373.8788 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2008.0,0.00%,F,F)

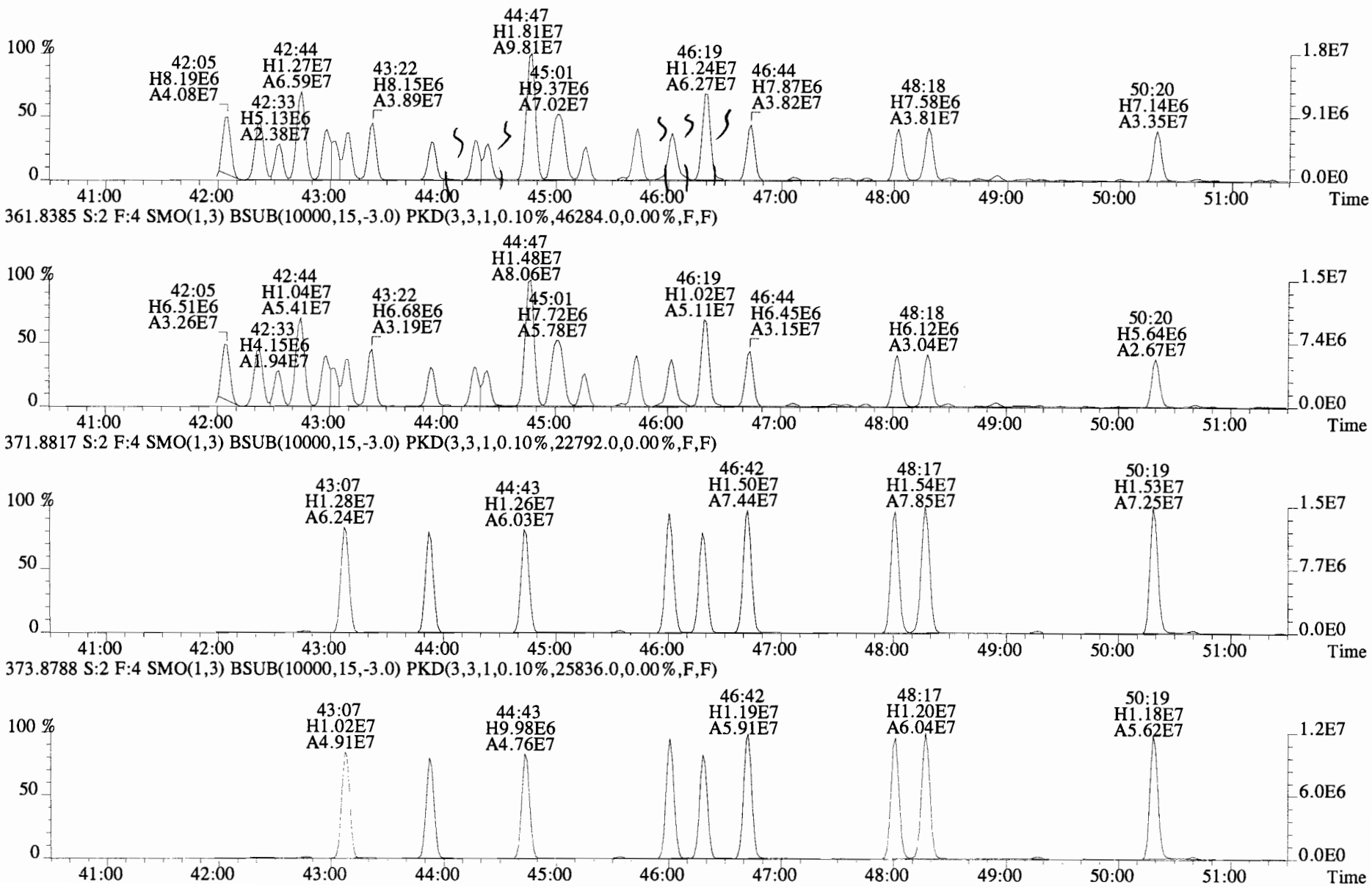


File:141024E2 #1-762 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1572.0,0.00%,F,F)

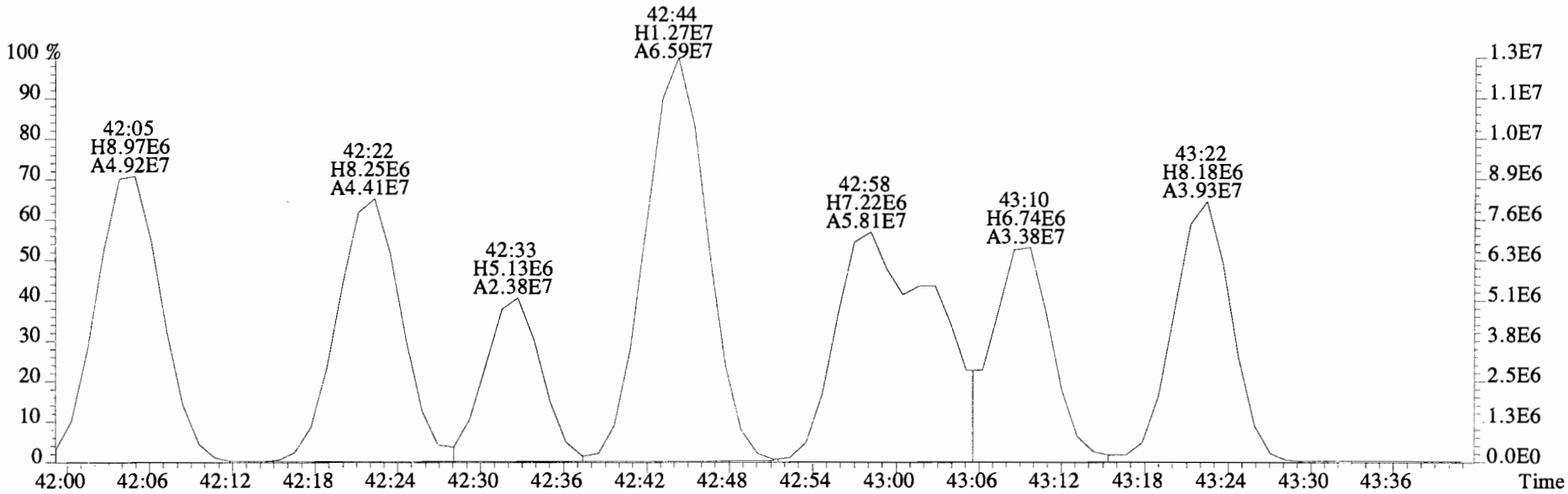


361.8385 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1556.0,0.00%,F,F)

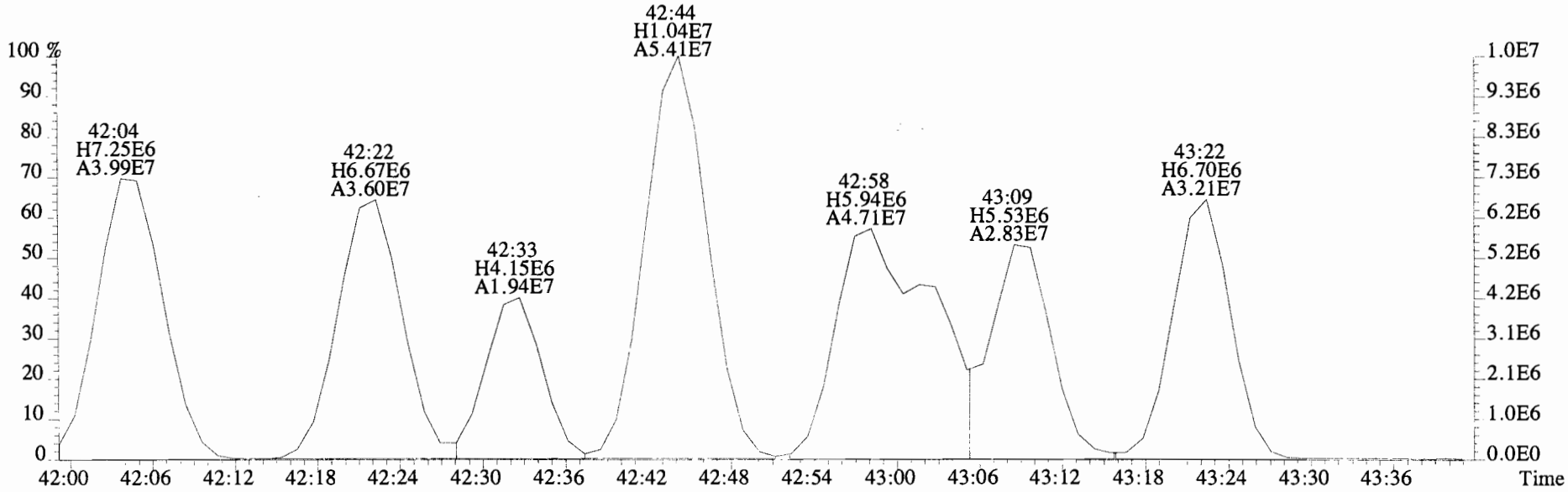



File:141024E2 #1-546 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,58540.0,0.00%,F,F)
42:05 H8.19E6 A4.08E7
42:33 H5.13E6 A2.38E7
42:44 H1.27E7 A6.59E7
43:22 H8.15E6 A3.89E7
44:47 H1.81E7 A9.81E7
45:01 H9.37E6 A7.02E7
46:19 H1.24E7 A6.27E7
46:44 H7.87E6 A3.82E7
48:18 H7.58E6 A3.81E7
50:20 H7.14E6 A3.35E7
361.8385 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,46284.0,0.00%,F,F)
42:05 H6.51E6 A3.26E7
42:33 H4.15E6 A1.94E7
42:44 H1.04E7 A5.41E7
43:22 H6.68E6 A3.19E7
44:47 H1.48E7 A8.06E7
45:01 H7.72E6 A5.78E7
46:19 H1.02E7 A5.11E7
46:44 H6.45E6 A3.15E7
48:18 H6.12E6 A3.04E7
50:20 H5.64E6 A2.67E7
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,22792.0,0.00%,F,F)
43:07 H1.28E7 A6.24E7
44:43 H1.26E7 A6.03E7
46:42 H1.50E7 A7.44E7
48:17 H1.54E7 A7.85E7
50:19 H1.53E7 A7.25E7
373.8788 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25836.0,0.00%,F,F)
43:07 H1.02E7 A4.91E7
44:43 H9.98E6 A4.76E7
46:42 H1.19E7 A5.91E7
48:17 H1.20E7 A6.04E7
50:19 H1.18E7 A5.62E7
100 %
50
0
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
51:00
Time
1.8E7
9.1E6
0.0E0
1.5E7
7.4E6
1.5E7
7.7E6
1.2E7
6.0E6

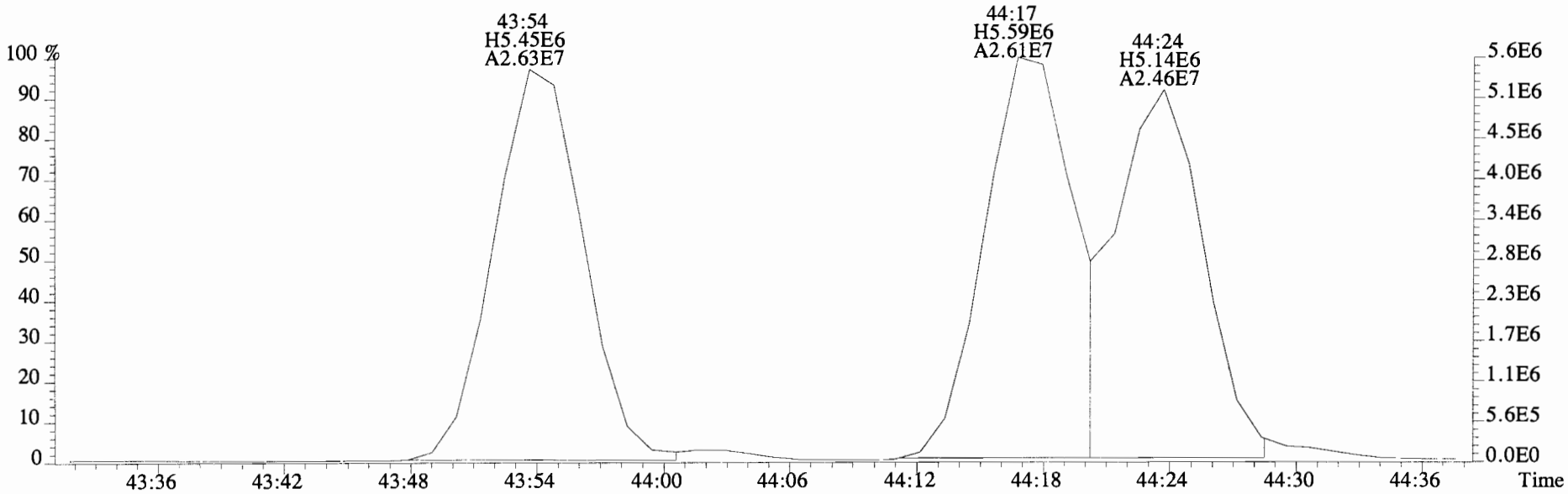
File:141024E2 #1-546 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,58540.0,0.00%,F,F)



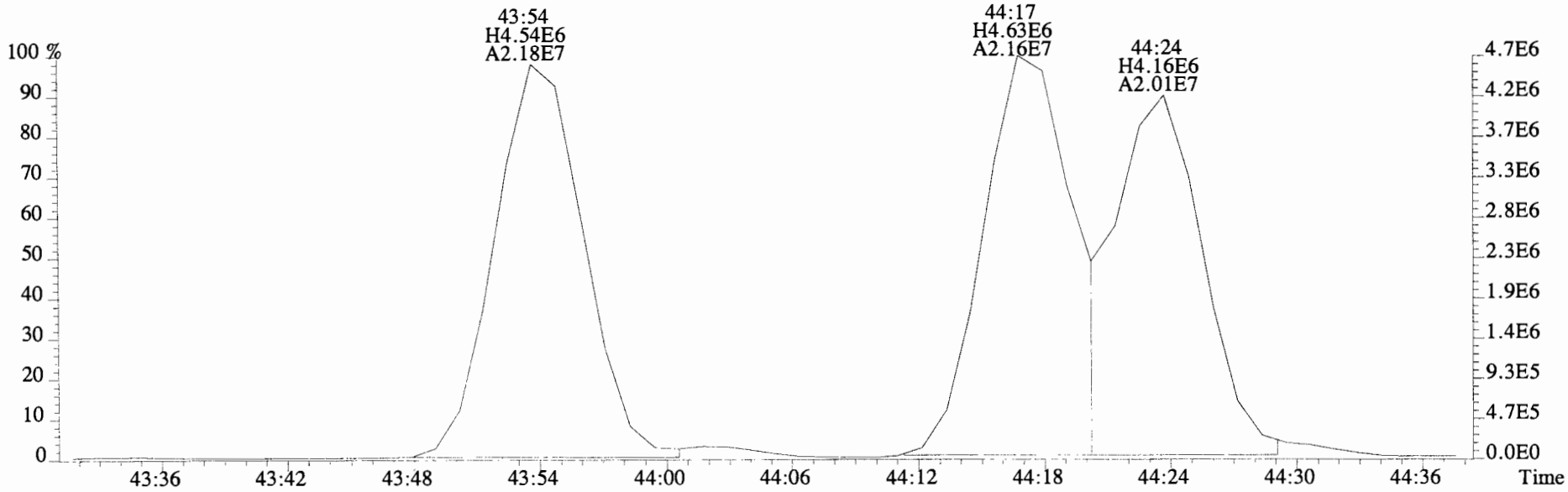
361.8385 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,46284.0,0.00%,F,F)



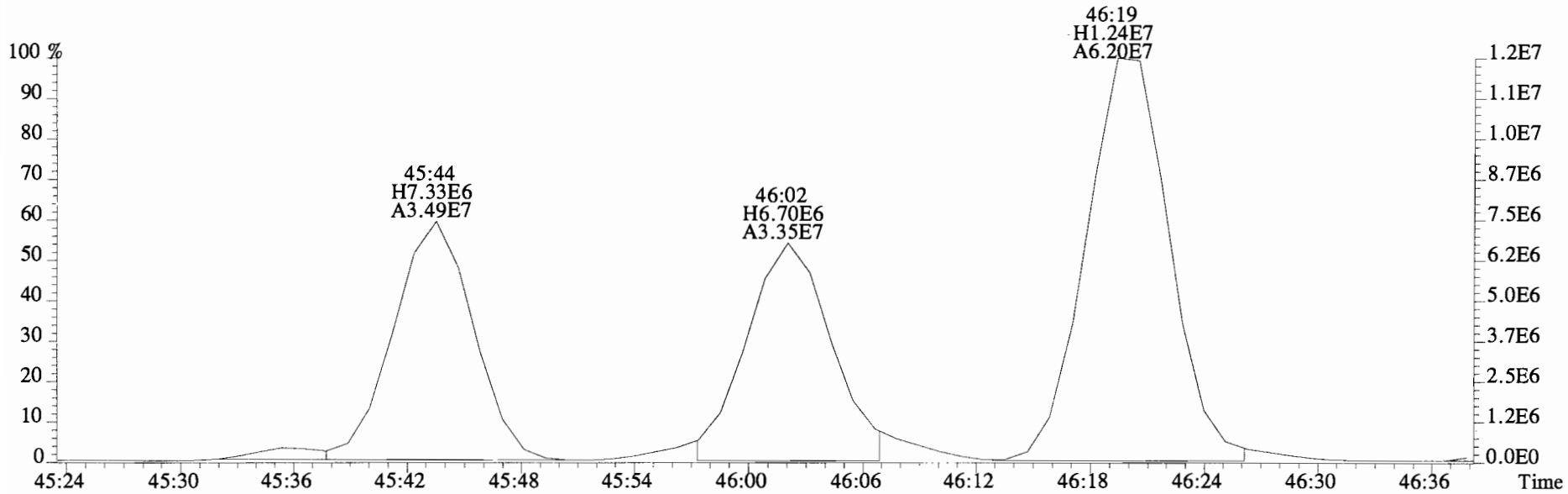
File:141024E2 #1-546 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,58540.0,0.00%,F,F)



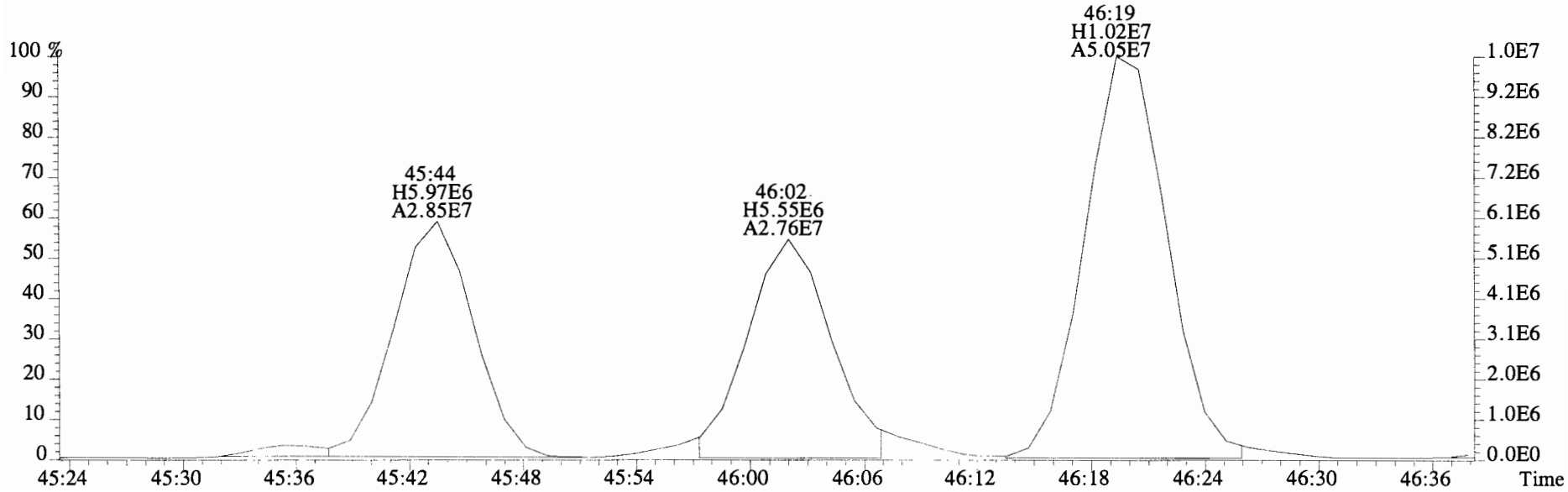
361.8385 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,46284.0,0.00%,F,F)



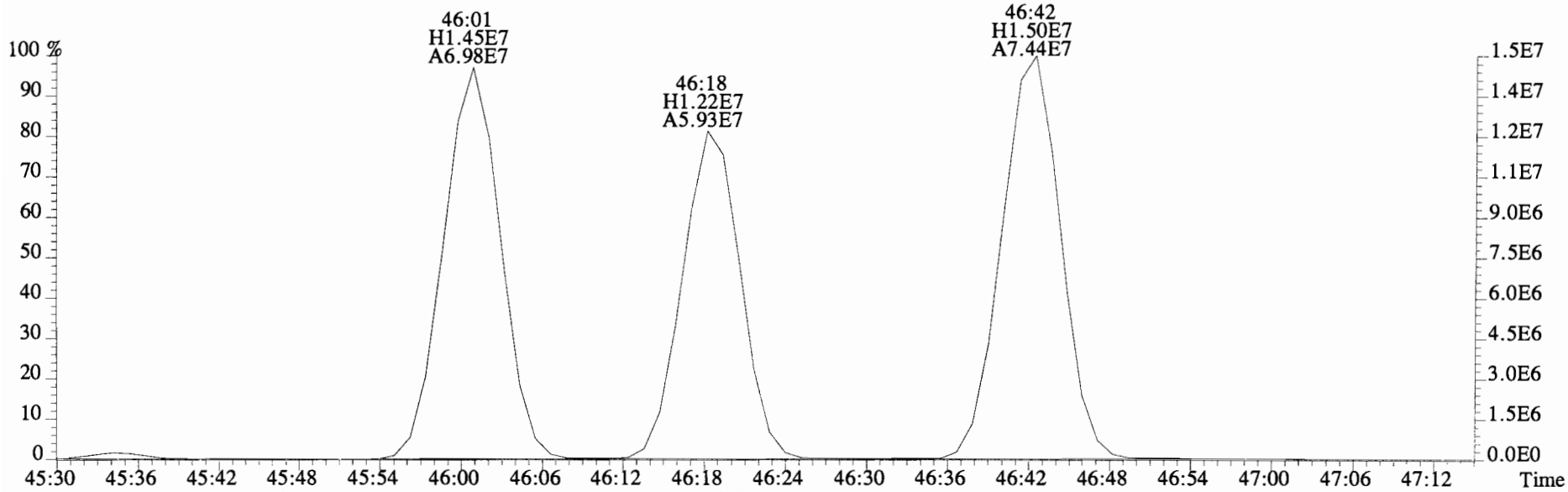
File:141024E2 #1-546 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,58540.0,0.00%,F,F)



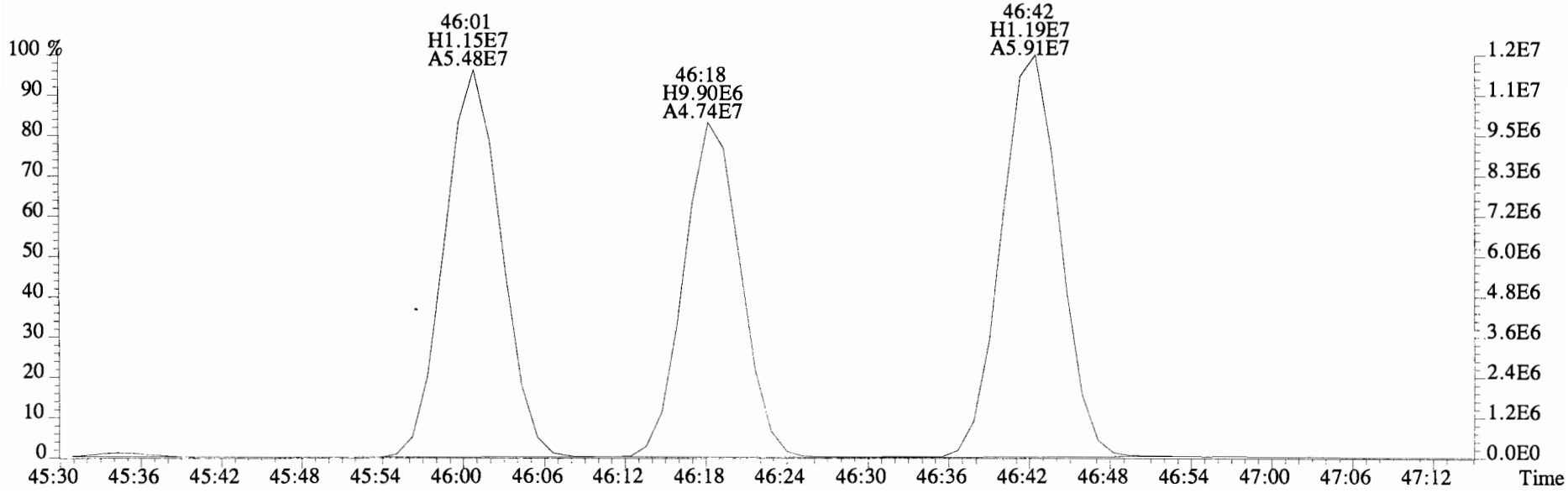
361.8385 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,46284.0,0.00%,F,F)



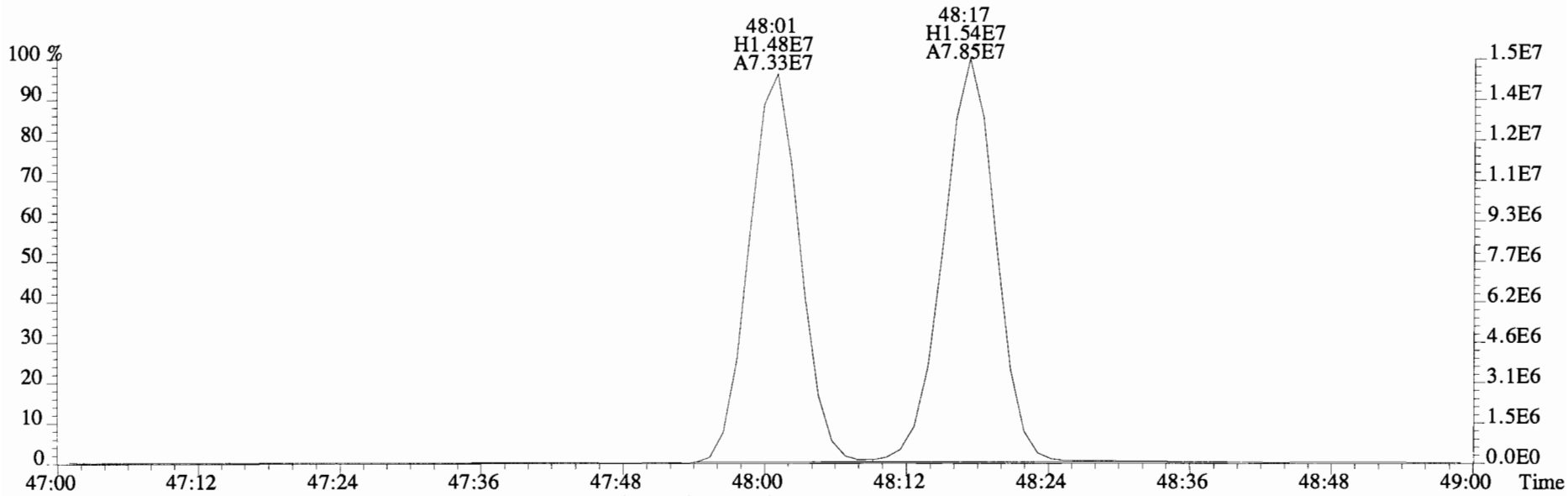
File:141024E2 #1-546 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,22792.0,0.00%,F,F)



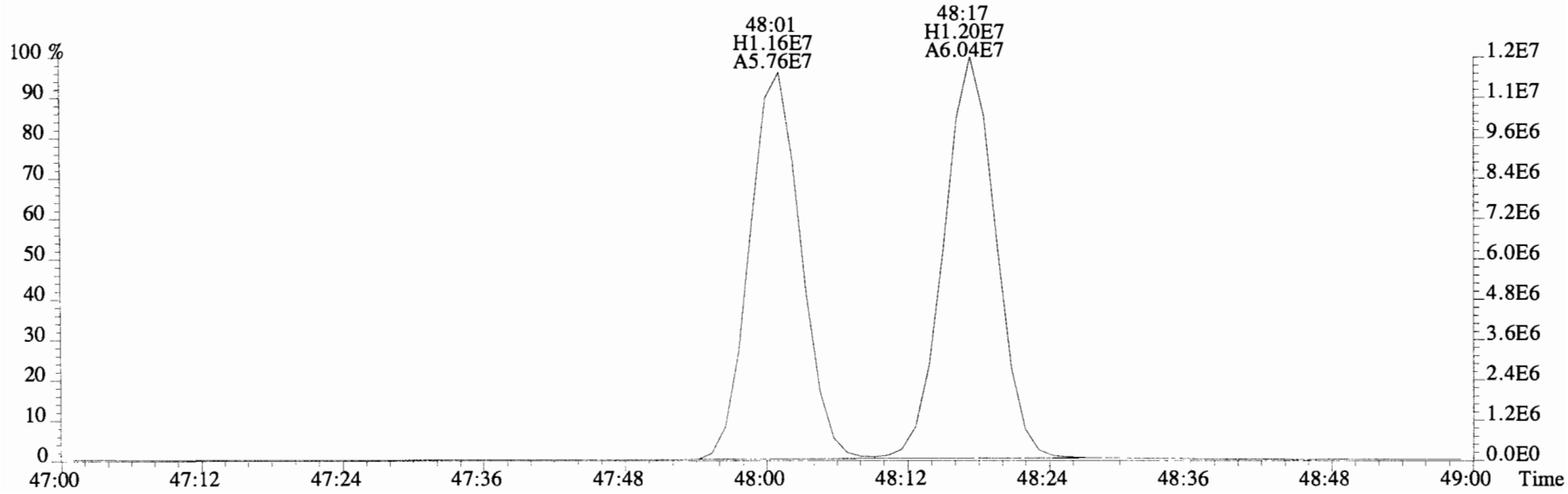
373.8788 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25836.0,0.00%,F,F)

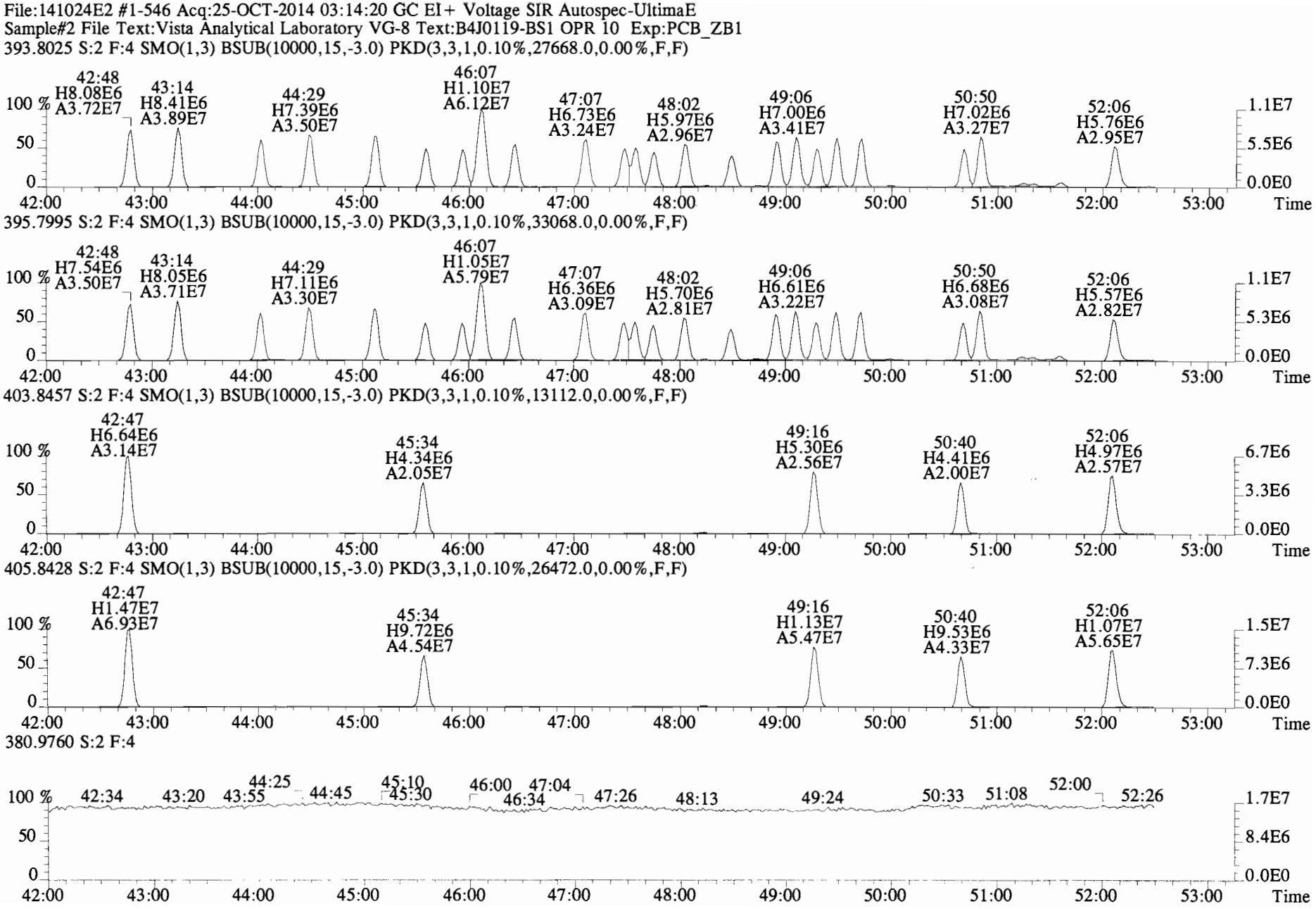


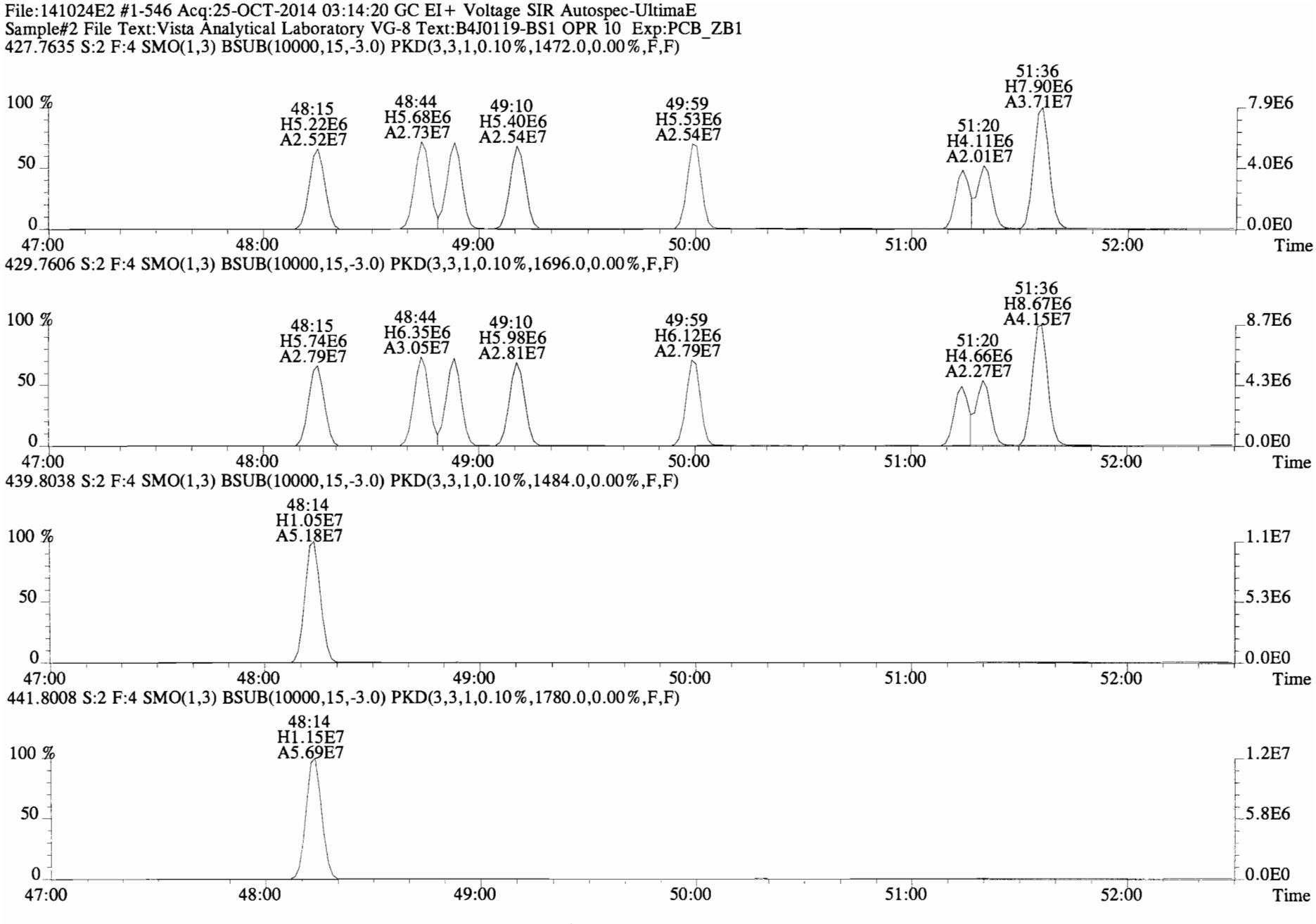
File:141024E2 #1-546 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,22792.0,0.00%,F,F)



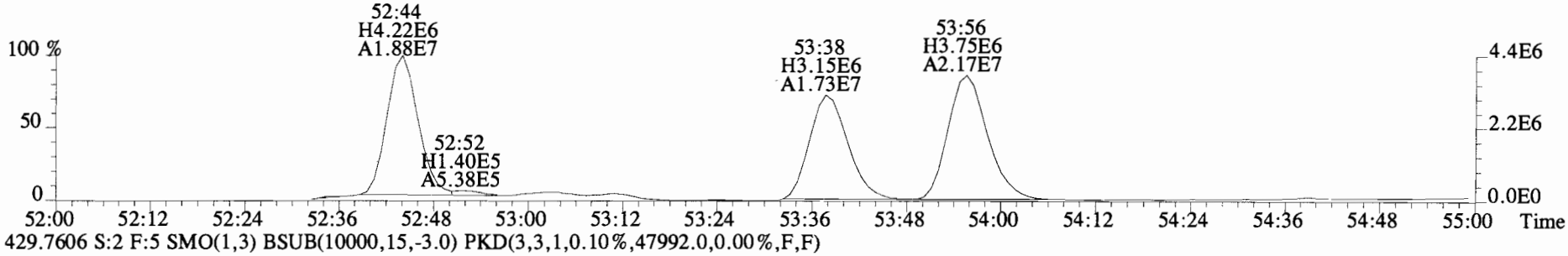
373.8788 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25836.0,0.00%,F,F)



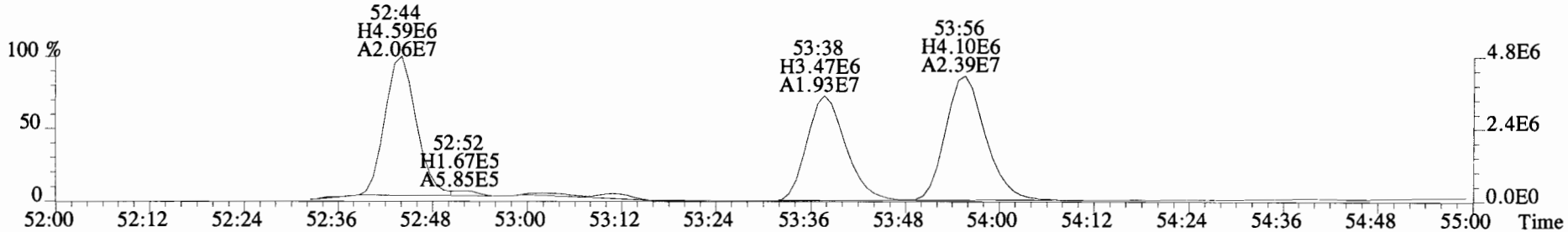

File:141024E2 #1-546 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,27668.0,0.00%,F,F)
42:48 H8.08E6 A3.72E7
43:14 H8.41E6 A3.89E7
44:29 H7.39E6 A3.50E7
46:07 H1.10E7 A6.12E7
47:07 H6.73E6 A3.24E7
48:02 H5.97E6 A2.96E7
49:06 H7.00E6 A3.41E7
50:50 H7.02E6 A3.27E7
52:06 H5.76E6 A2.95E7
395.7995 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,33068.0,0.00%,F,F)
42:48 H7.54E6 A3.50E7
43:14 H8.05E6 A3.71E7
44:29 H7.11E6 A3.30E7
46:07 H1.05E7 A5.79E7
47:07 H6.36E6 A3.09E7
48:02 H5.70E6 A2.81E7
49:06 H6.61E6 A3.22E7
50:50 H6.68E6 A3.08E7
52:06 H5.57E6 A2.82E7
403.8457 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13112.0,0.00%,F,F)
42:47 H6.64E6 A3.14E7
45:34 H4.34E6 A2.05E7
49:16 H5.30E6 A2.56E7
50:40 H4.41E6 A2.00E7
52:06 H4.97E6 A2.57E7
405.8428 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26472.0,0.00%,F,F)
42:47 H1.47E7 A6.93E7
45:34 H9.72E6 A4.54E7
49:16 H1.13E7 A5.47E7
50:40 H9.53E6 A4.33E7
52:06 H1.07E7 A5.65E7
380.9760 S:2 F:4
42:34
43:20
43:55
44:25
44:45
45:10
45:30
46:00
46:34
47:04
47:26
48:13
49:24
50:33
51:08
52:00
52:26
100 %
50
0
1.1E7
5.5E6
0.0E0
1.1E7
5.3E6
0.0E0
6.7E6
3.3E6
0.0E0
1.5E7
7.3E6
0.0E0
1.7E7
8.4E6
0.0E0
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
51:00
52:00
53:00
Time


File:141024E2 #1-546 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
427.7635 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1472.0,0.00%,F,F)
48:15 H5.22E6 A2.52E7
48:44 H5.68E6 A2.73E7
49:10 H5.40E6 A2.54E7
49:59 H5.53E6 A2.54E7
51:20 H4.11E6 A2.01E7
51:36 H7.90E6 A3.71E7
429.7606 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1696.0,0.00%,F,F)
48:15 H5.74E6 A2.79E7
48:44 H6.35E6 A3.05E7
49:10 H5.98E6 A2.81E7
49:59 H6.12E6 A2.79E7
51:20 H4.66E6 A2.27E7
51:36 H8.67E6 A4.15E7
439.8038 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1484.0,0.00%,F,F)
48:14 H1.05E7 A5.18E7
441.8008 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1780.0,0.00%,F,F)
48:14 H1.15E7 A5.69E7
100 %
50
0
47:00
48:00
49:00
50:00
51:00
52:00
Time
7.9E6
4.0E6
0.0E0
8.7E6
4.3E6
0.0E0
1.1E7
5.3E6
0.0E0
1.2E7
5.8E6
0.0E0

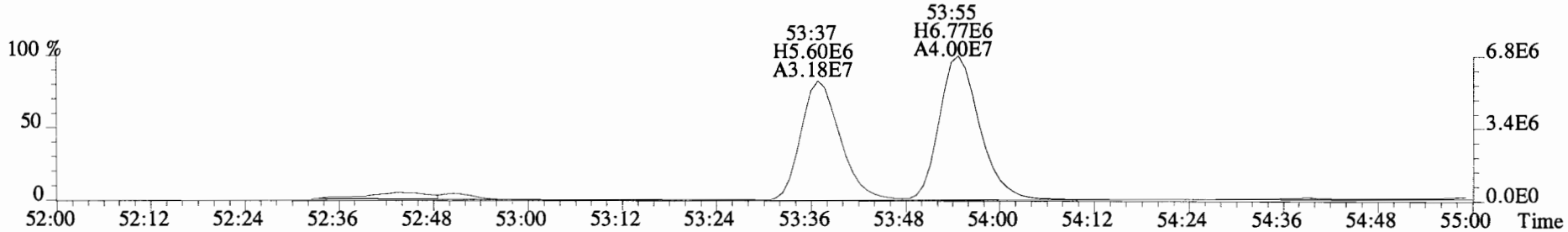
File:141024E2 #1-435 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
427.7635 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,46784.0,0.00%,F,F)



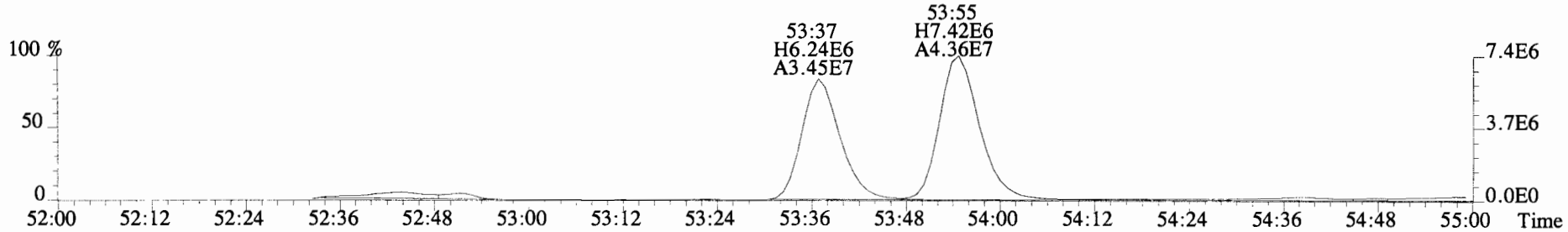
429.7606 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,47992.0,0.00%,F,F)



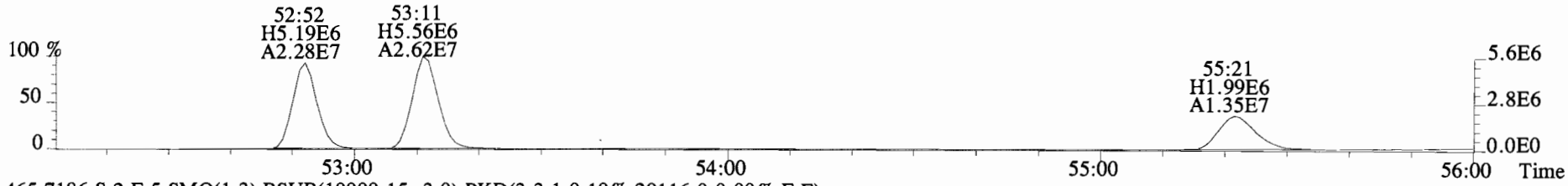
439.8038 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5812.0,0.00%,F,F)



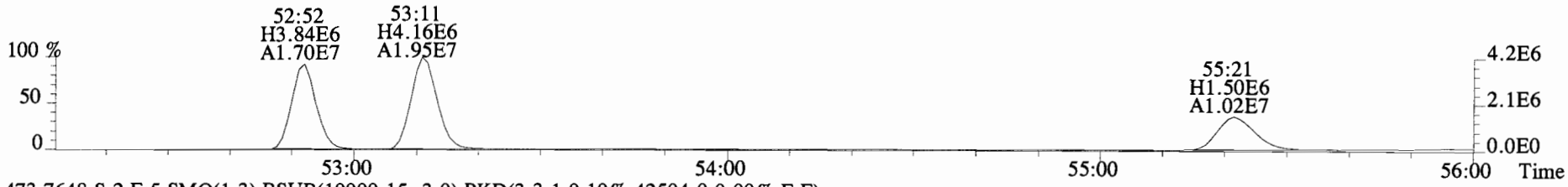
441.8008 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10700.0,0.00%,F,F)



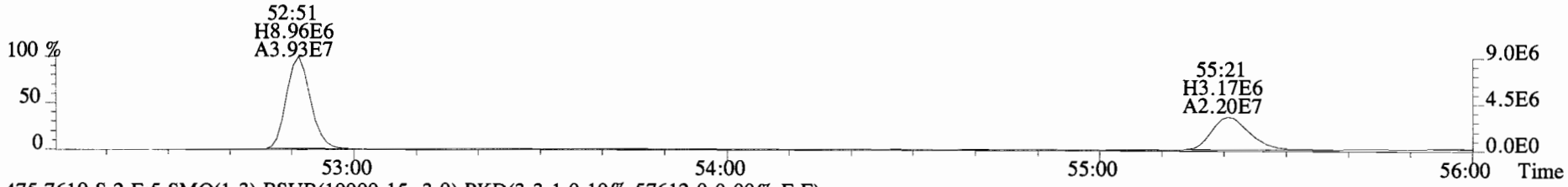
File:141024E2 #1-435 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
463.7216 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,37372.0,0.00%,F,F)



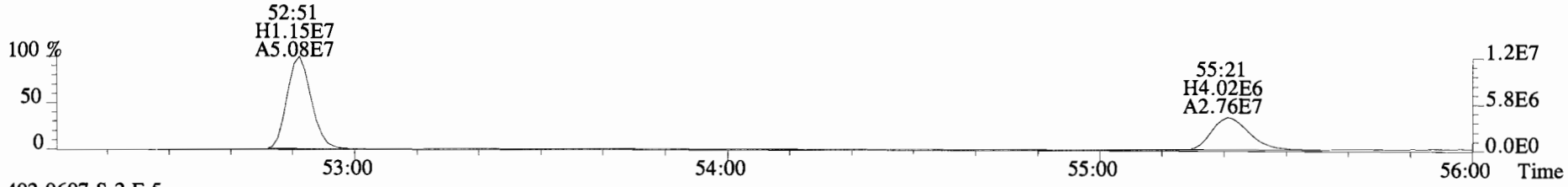
465.7186 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,29116.0,0.00%,F,F)



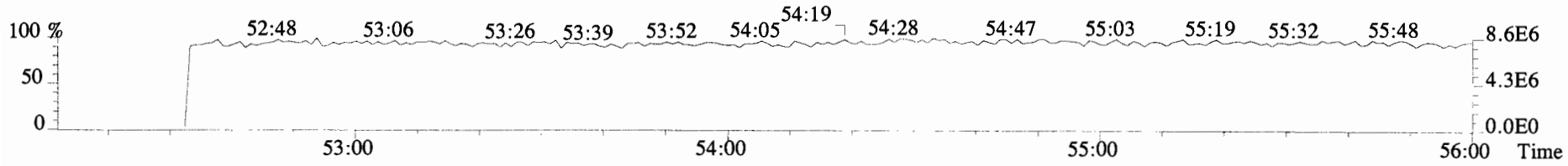
473.7648 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,42504.0,0.00%,F,F)



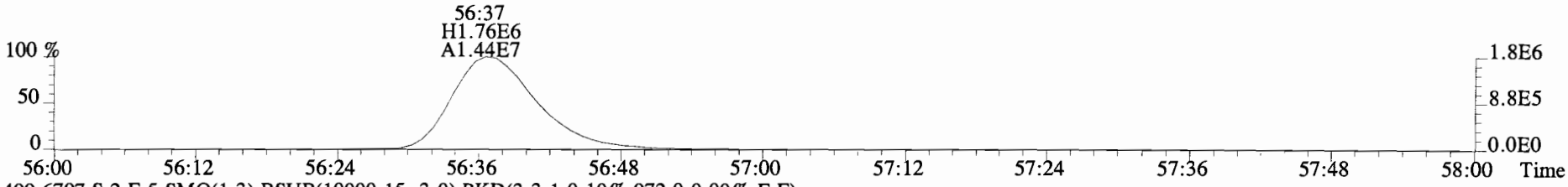
475.7619 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,57612.0,0.00%,F,F)



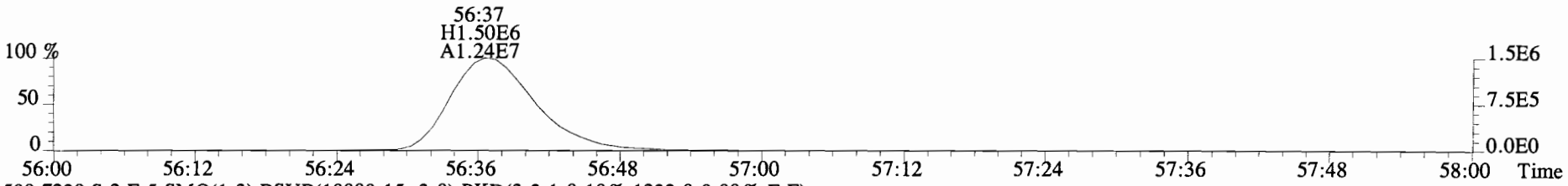
492.9697 S:2 F:5



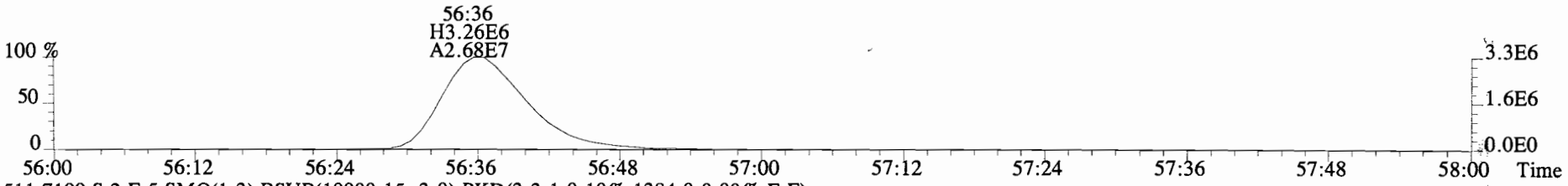
File:141024E2 #1-435 Acq:25-OCT-2014 03:14:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4J0119-BS1 OPR 10 Exp:PCB_ZB1
497.6826 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1296.0,0.00%,F,F)



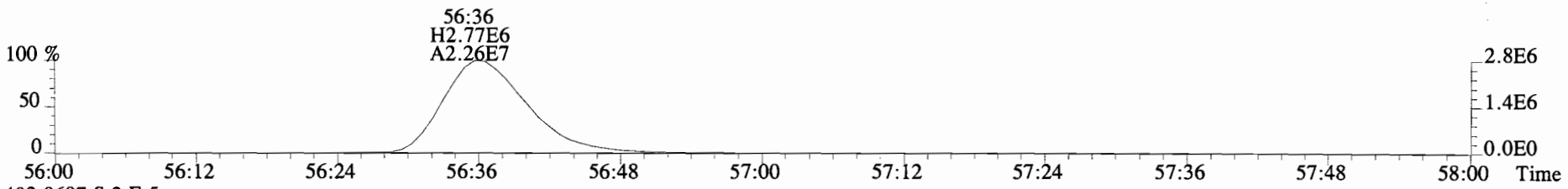
499.6797 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,972.0,0.00%,F,F)



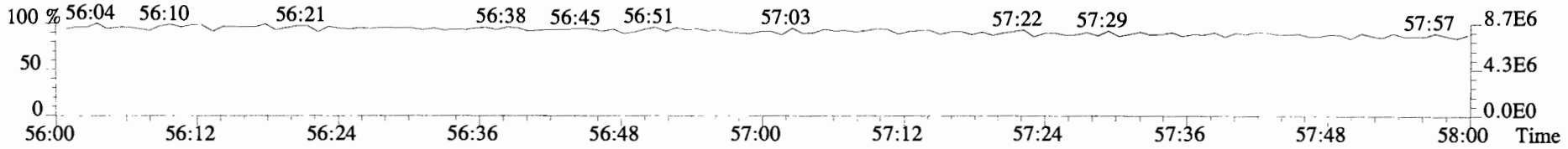
509.7229 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1232.0,0.00%,F,F)



511.7199 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1384.0,0.00%,F,F)



492.9697 S:2 F:5



Client ID: CC-A-01-20141013-S Filename: 141024E2 S:7 Acq:25-OCT-14 08:31:59 ConCal: ST141024E2-1
Lab ID: 1400762-03@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 10.010 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Mono	PCB-1	5.23e+05	2.87	y 16:27	1.19	83.1		*	2.5	*	1.001	0.996-1.006
Mono	PCB-2	1.64e+05	2.79	y 18:44	1.18	29.1		*	2.5	*	0.989	0.984-0.994
Mono	PCB-3	4.20e+05	2.40	n 18:58	1.43	62.0	R	*	2.5	*	1.002	0.996-1.006
Di	PCB-4/10	4.87e+05	1.24	n 20:15	1.57	124	R	*	2.5	*	1.001	0.997-1.007
Di	PCB-7/9	*	*	n NotFnd	1.21	*		17500	2.5	85.0	*	0.866-0.874
Di	PCB-6	3.69e+05	1.28	n 22:38	1.30	70.2	R	*	2.5	*	0.895	0.890-0.899
Di	PCB-5/8	1.63e+06	1.54	y 23:02	1.15	351		*	2.5	*	0.911	0.907-0.917
Di	PCB-14	*	*	n NotFnd	1.11	*		12100	2.5	85.8	*	0.949-0.959
Di	PCB-11	4.75e+06	1.78	y 25:18	1.09	1210		*	2.5	*	1.001	0.995-1.005
Di	PCB-12/13	*	*	n NotFnd	1.19	*		12100	2.5	79.6	*	1.011-1.021
Di	PCB-15	1.58e+06	1.62	y 26:00	1.28	341		*	2.5	*	1.028	1.023-1.033
Tri	PCB-19	2.08e+05	1.19	y 24:18	1.04	75.6		*	2.5	*	1.001	0.996-1.006
Tri	PCB-30	*	*	n NotFnd	1.71	*		2210	2.5	8.77	*	1.032-1.042
Tri	PCB-18	2.18e+06	1.01	y 25:54	0.78	639		*	2.5	*	0.955	0.949-0.959
Tri	PCB-17	6.35e+05	1.05	y 26:05	0.92	157		*	2.5	*	0.961	0.956-0.966
Tri	PCB-24/27	2.72e+05	1.14	y 26:38	1.19	52.4		*	2.5	*	0.982	0.977-0.987
Tri	PCB-16/32	1.75e+06	1.06	y 27:08	0.94	426		*	2.5	*	1.000	0.995-1.005
Tri	PCB-34	*	*	n NotFnd	1.14	*		3010	2.5	18.4	*	0.955-0.965
Tri	PCB-23	*	*	n NotFnd	1.28	*		3010	2.5	16.4	*	0.959-0.969
Tri	PCB-29	*	*	n NotFnd	1.08	*		3010	2.5	19.4	*	0.967-0.977
Tri	PCB-26	5.70e+05	1.01	y 28:28	1.21	125		*	2.5	*	0.979	0.974-0.984
Tri	PCB-25	2.92e+05	0.96	y 28:38	1.26	61.3		*	2.5	*	0.985	0.979-0.989
Tri	PCB-31	3.90e+06	0.99	y 28:59	1.28	803		*	2.5	*	0.997	0.992-1.002
Tri	PCB-28	3.46e+06	1.00	y 29:05	1.71	536		*	2.5	*	1.001	0.995-1.005
Tri	PCB-20/21/33	1.96e+06	1.09	y 29:44	1.08	479		*	2.5	*	1.023	1.017-1.027
Tri	PCB-22	1.25e+06	1.08	y 30:09	1.21	275		*	2.5	*	1.037	1.032-1.042
Tri	PCB-36	*	*	n NotFnd	1.14	*		3010	2.5	18.3	*	0.928-0.938
Tri	PCB-39	*	*	n NotFnd	1.12	*		3010	2.5	18.7	*	0.943-0.953
Tri	PCB-38	9.92e+04	1.18	y 32:00	1.20	23.7		*	2.5	*	0.971	0.966-0.976
Tri	PCB-35	3.66e+05	1.09	y 32:32	1.23	85.0		*	2.5	*	0.987	0.982-0.992
Tri	PCB-37	2.06e+06	1.05	y 32:59	1.23	479		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-54	*	*	n NotFnd	1.10	*		3740	2.5	21.0	*	0.996-1.006
Tetra	PCB-50	*	*	n NotFnd	0.88	*		3740	2.5	26.3	*	1.037-1.047
Tetra	PCB-53	1.24e+06	0.77	y 29:46	1.06	399		*	2.5	*	0.946	0.942-0.952
Tetra	PCB-51	2.61e+05	0.76	y 30:07	0.99	89.7		*	2.5	*	0.958	0.952-0.962
Tetra	PCB-45	6.03e+05	0.83	y 30:33	0.86	238		*	2.5	*	0.971	0.966-0.976
Tetra	PCB-46	2.27e+05	0.78	y 31:01	0.85	91.7		*	2.5	*	0.986	0.981-0.991

Integrations by:

Analyst: DMS

Date: 10/30/14

Reviewed by: MK

Date: 10/30/14

Client ID: CC-A-01-20141013-S Filename: 141024E2 S:7 Acq:25-OCT-14 08:31:59 ConCal: ST141024E2-1
Lab ID: 1400762-03@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:10.010 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Tetra	PCB-52/69	6.67e+07	0.74	y 31:28	1.28	17700		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-73	*	*	n NotF╗	1.35	*		3740	2.5	20.2	*	1.000-1.010
Tetra	PCB-43/49	1.22e+07	0.73	y 31:47	0.99	4170		*	2.5	*	1.011	1.005-1.015
Tetra	PCB-47	1.63e+06	0.66	y 31:59	1.06	552		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-48/75	1.17e+06	0.71	y 32:06	1.23	342		*	2.5	*	1.004	0.999-1.009
Tetra	PCB-65	*	*	n NotF╗	1.22	*		3740	2.5	23.7	*	1.008-1.018
Tetra	PCB-62	*	*	n NotF╗	1.22	*		3740	2.5	23.8	*	1.011-1.021
Tetra	PCB-44	2.32e+07	0.74	y 32:49	0.86	9710		*	2.5	*	1.027	1.021-1.031
Tetra	PCB-42/59	2.27e+06	0.71	y 33:03	1.14	717		*	2.5	*	1.034	1.028-1.038
Tetra	PCB-41/64/71/72	1.27e+07	0.74	y 33:36	1.21	3780		*	2.5	*	1.051	1.046-1.056
Tetra	PCB-68	9.28e+04	0.77	y 33:49	1.35	24.8		*	2.5	*	1.058	1.054-1.064
Tetra	PCB-40	1.22e+06	0.76	y 34:03	0.70	624		*	2.5	*	1.065	1.061-1.071
Tetra	PCB-57	5.74e+04	1.00	n 34:25	0.98	15.6	R	*	2.5	*	0.970	0.965-0.975
Tetra	PCB-67	2.96e+05	0.80	y 34:43	1.11	71.0		*	2.5	*	0.979	0.974-0.984
Tetra	PCB-58	*	*	n NotF╗	0.93	*		3740	2.5	23.9	*	0.977-0.987
Tetra	PCB-63	6.38e+05	0.75	y 34:59	0.95	178		*	2.5	*	0.986	0.982-0.992
Tetra	PCB-74	1.20e+07	0.74	y 35:16	1.24	2560		*	2.5	*	0.994	0.990-1.000
Tetra	PCB-61/70	5.69e+07	0.73	y 35:28	0.95	15900		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-76/66	1.57e+07	0.74	y 35:42	1.04	3980		*	2.5	*	1.007	1.001-1.011
Tetra	PCB-80	*	*	n NotF╗	1.19	*		3740	2.5	18.6	*	0.996-1.006
Tetra	PCB-55	1.11e+06	0.81	y 36:11	1.04	283		*	2.5	*	1.008	1.005-1.015
Tetra	PCB-56/60	9.00e+06	0.74	y 36:43	1.01	2360		*	2.5	*	1.023	1.019-1.029
Tetra	PCB-79	2.13e+06	0.77	y 37:48	1.08	523		*	2.5	*	1.053	1.048-1.058
Tetra	PCB-78	*	*	n NotF╗	1.27	*		3740	2.5	21.2	*	0.982-0.992
Tetra	PCB-81	1.44e+06	0.74	y 39:01	1.33	352		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-77	5.65e+06	0.73	y 39:37	1.10	1690		*	2.5	*	1.000	0.995-1.005
Penta	PCB-104	*	*	n NotF╗	1.18	*		1460	2.5	14.8	*	0.996-1.006
Penta	PCB-96	*	*	n NotF╗	1.14	*		1460	2.5	15.4	*	1.034-1.044
Penta	PCB-103	6.11e+05	1.69	y 34:25	0.96	237		*	2.5	*	1.054	1.050-1.060
Penta	PCB-100	2.29e+05	1.62	y 34:46	0.94	91.0		*	2.5	*	1.065	1.061-1.071
Penta	PCB-94	3.87e+05	1.66	y 35:15	1.06	166		*	2.5	*	0.986	0.980-0.990
Penta	PCB-95/98/102	1.29e+08	1.58	y 35:46	1.22	47900		*	2.5	*	1.000	0.995-1.005
Penta	PCB-93	*	*	n NotF╗	0.84	*		1460	2.5	25.0	*	0.997-1.007
Penta	PCB-88/91	1.53e+07	1.58	y 36:10	1.12	6210		*	2.5	*	1.012	1.005-1.015
Penta	PCB-121	*	*	n NotF╗	1.62	*		1460	2.5	13.0	*	1.009-1.019
Penta	PCB-84/92	5.97e+07	1.57	y 37:05	1.05	24400		*	2.5	*	0.991	0.985-0.995
Penta	PCB-89	6.47e+05	1.75	y 37:16	1.13	245		*	2.5	*	0.996	0.991-1.001

Analyst: DMS

Date: 10/30/14

Client ID: CC-A-01-20141013-S Filename: 141024E2 S:7 Acq:25-OCT-14 08:31:59 ConCal: ST141024E2-1
Lab ID: 1400762-03@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:10.010 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	1.70e+08	1.57	y 37:28	1.10	66100		*	2.5	*	1.001	0.995	1.005
Penta	PCB-113	*	*	n NotF┐	1.41	*		1460	2.5	14.5	*	1.002	1.012
Penta	PCB-99	5.11e+07	1.59	y 37:47	1.34	16400		*	2.5	*	1.009	1.004	1.014
Penta	PCB-119	2.03e+06	1.49	y 38:15	1.53	704		*	2.5	*	0.987	0.982	0.992
Penta	PCB-108/112	6.42e+06	1.60	y 38:26	1.28	2670		*	2.5	*	0.991	0.986	0.996
Penta	PCB-83	*	*	n NotF┐	1.52	*		1460	2.5	14.6	*	0.990	1.000
Penta	PCB-97	3.87e+07	1.56	y 38:46	1.18	17400		*	2.5	*	1.000	0.995	1.005
Penta	PCB-86	*	*	n NotF┐	0.84	*		1460	2.5	26.4	*	0.999	1.009
Penta	PCB-87/117/125	6.67e+07	1.56	y 39:03	1.55	22900		*	2.5	*	1.007	1.002	1.012
Penta	PCB-111/115	2.63e+06	1.35	y 39:12	1.63	855		*	2.5	*	1.011	1.006	1.016
Penta	PCB-85/116	1.85e+07	1.59	y 39:19	1.30	7540		*	2.5	*	1.014	1.010	1.020
Penta	PCB-120	6.00e+05	1.59	y 39:31	1.68	190		*	2.5	*	1.019	1.016	1.026
Penta	PCB-110	2.05e+08	1.57	y 39:43	1.56	70100		*	2.5	*	1.025	1.020	1.030
Penta	PCB-82	1.20e+07	1.53	y 40:21	0.76	6600		*	2.5	*	0.976	0.971	0.981
Penta	PCB-124	8.73e+06	1.67	y 41:01	1.47	2470		*	2.5	*	0.992	0.988	0.998
Penta	PCB-107/109	1.07e+07	1.55	y 41:11	1.32	3360		*	2.5	*	0.996	0.991	1.001
Penta	PCB-123	1.93e+06	1.68	y 41:21	1.17	689		*	2.5	*	1.000	0.996	1.006
Penta	PCB-106/118	1.53e+08	1.58	y 41:32	1.17	51800		*	2.5	*	1.000	0.996	1.006
Penta	PCB-114	4.59e+06	1.59	y 42:12	1.30	1410		*	2.5	*	1.000	0.995	1.005
Penta	PCB-122	1.77e+06	1.66	y 42:20	1.12	630		*	2.5	*	1.004	0.999	1.009
Penta	PCB-105	6.82e+07	1.62	y 43:04	1.30	20600		*	2.5	*	1.000	0.995	1.005
Penta	PCB-127	*	*	n NotF┐	1.33	*		9490	2.5	97.5	*	0.996	1.006
Penta	PCB-126	1.84e+06	1.55	y 45:20	1.18	726		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-155	*	*	n NotF┐	1.11	*		1500	2.5	14.8	*	0.966	1.006
Hexa	PCB-150	2.64e+05	1.15	y 38:16	1.00	102		*	2.5	*	1.035	1.030	1.040
Hexa	PCB-152	2.03e+05	1.27	y 38:45	1.12	70.4		*	2.5	*	1.048	1.043	1.053
Hexa	PCB-145	7.13e+04	1.11	y 39:12	1.20	23.0		*	2.5	*	1.060	1.055	1.065
Hexa	PCB-136	3.08e+07	1.26	y 39:31	1.18	10100		*	2.5	*	1.068	1.064	1.074
Hexa	PCB-148	*	*	n NotF┐	0.74	*		1500	2.5	22.1	*	1.066	1.076
Hexa	PCB-154	1.12e+06	1.33	y 40:07	0.86	503		*	2.5	*	1.085	1.080	1.090
Hexa	PCB-151	3.92e+07	1.25	y 40:45	0.75	20300		*	2.5	*	1.102	1.097	1.107
Hexa	PCB-135	2.20e+07	1.23	y 40:59	0.79	10700		*	2.5	*	1.108	1.103	1.113
Hexa	PCB-144	8.16e+06	1.27	y 41:06	0.76	4150		*	2.5	*	1.111	1.105	1.117
Hexa	PCB-147	2.93e+06	1.24	y 41:14	0.82	1380		*	2.5	*	1.115	1.109	1.121
Hexa	PCB-139/149	1.39e+08	1.25	y 41:28	0.76	70500		*	2.5	*	1.121	1.116	1.128
Hexa	PCB-140	6.92e+05	1.24	y 41:40	0.72	371		*	2.5	*	1.127	1.121	1.133
Hexa	PCB-134/143	1.15e+07	1.21	y 42:08	0.92	5110		*	2.5	*	0.975	0.970	0.980

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Date: 10/30/14

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	5.86e+06	1.21	y 42:24	0.82	2910		*	2.5	*	0.981	0.977	0.987
Hexa	PCB-131	*	*	n NotFnd	0.91	*		4190	2.5	57.1	*	0.981	0.991
Hexa	PCB-146/165	3.22e+07	1.24	y 42:49	1.25	10500		*	2.5	*	0.991	0.986	0.996
Hexa	PCB-132/161	7.10e+07	1.28	y 43:05	1.10	26100		*	2.5	*	0.997	0.992	1.002
Hexa	PCB-153	2.32e+08	1.22	y 43:13	1.25	75500		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-168	2.07e+05	1.49	n 43:26	1.45	58.1	R	*	2.5	*	1.005	1.001	1.011
Hexa	PCB-141	5.09e+07	1.21	y 43:58	1.09	21500		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-137	1.15e+07	1.23	y 44:21	1.06	4940		*	2.5	*	1.009	1.004	1.014
Hexa	PCB-130	1.21e+07	1.28	y 44:27	0.96	5720		*	2.5	*	1.011	1.006	1.016
Hexa	PCB-138/163/164	2.60e+08	1.22	y 44:49	1.29	95200		*	2.5	*	1.000	0.996	1.006
Hexa	PCB-158/160	3.34e+07	1.21	y 45:03	1.34	11800		*	2.5	*	1.006	1.001	1.011
Hexa	PCB-129	9.83e+06	1.21	y 45:19	0.85	5460		*	2.5	*	1.012	1.007	1.017
Hexa	PCB-166	1.18e+06	1.22	y 45:48	1.19	371		*	2.5	*	0.993	0.988	0.998
Hexa	PCB-159	*	*	n NotFnd	1.11	*		4190	2.5	46.1	*	0.996	1.006
Hexa	PCB-128/162	3.65e+07	1.24	y 46:24	1.05	13000		*	2.5	*	1.006	1.002	1.012
Hexa	PCB-167	1.13e+07	1.19	y 46:49	1.20	3480		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-156	2.72e+07	1.25	y 48:08	1.14	9300		*	2.5	*	1.000	0.996	1.006
Hexa	PCB-157	5.81e+06	1.32	y 48:24	1.16	1820		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-169	*	*	n NotFnd	1.12	*		7190	2.5	76.4	*	0.995	1.005
Hepta	PCB-188	1.28e+05	1.01	y 42:50	1.58	38.9		*	2.5	*	1.000	0.996	1.006
Hepta	PCB-184	9.19e+04	0.98	y 43:17	1.63	27.1		*	2.5	*	1.011	1.006	1.016
Hepta	PCB-179	3.38e+07	1.06	y 44:04	1.30	12500		*	2.5	*	1.029	1.024	1.034
Hepta	PCB-176	1.03e+07	1.04	y 44:33	1.48	3350		*	2.5	*	1.040	1.035	1.045
Hepta	PCB-186	*	*	n NotFnd	1.45	*		1570	2.5	9.50	*	1.050	1.060
Hepta	PCB-178	1.16e+07	1.04	y 45:39	1.03	5400		*	2.5	*	1.066	1.061	1.071
Hepta	PCB-175	2.11e+06	1.04	y 46:00	1.01	1000		*	2.5	*	1.074	1.069	1.079
Hepta	PCB-182/187	7.84e+07	1.06	y 46:10	1.25	30100		*	2.5	*	1.078	1.073	1.083
Hepta	PCB-183	3.47e+07	1.04	y 46:31	1.21	13800		*	2.5	*	1.086	1.081	1.091
Hepta	PCB-185	7.27e+06	1.05	y 47:10	1.80	2700		*	2.5	*	0.955	0.951	0.961
Hepta	PCB-174	5.96e+07	1.04	y 47:32	1.38	29000		*	2.5	*	0.963	0.958	0.968
Hepta	PCB-181	*	*	n NotFnd	1.38	*		5070	2.5	53.1	*	0.960	0.970
Hepta	PCB-177	2.94e+07	1.06	y 47:49	1.26	15700		*	2.5	*	0.969	0.963	0.973
Hepta	PCB-171	1.45e+07	1.07	y 48:07	1.58	6140		*	2.5	*	0.975	0.970	0.980
Hepta	PCB-173	1.14e+06	1.11	y 48:33	1.11	686		*	2.5	*	0.983	0.978	0.988
Hepta	PCB-172	9.16e+06	1.08	y 49:00	1.63	3750		*	2.5	*	0.993	0.987	0.997
Hepta	PCB-192	*	*	n NotFnd	1.74	*		1570	2.5	13.1	*	0.991	1.001
Hepta	PCB-180	1.33e+08	1.04	y 49:23	1.34	66000		*	2.5	*	1.000	0.995	1.005

Analyst: DMS

Date: 10/30/14

Client ID: CC-A-01-20141013-S Filename: 141024E2 S:7 Acq:25-OCT-14 08:31:59 ConCal: ST141024E2-1
Lab ID: 1400762-03@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:10.010 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	7.44e+06	1.04	y 49:33	1.72	2910		*	2.5	*	1.004	0.999	1.009
Hepta	PCB-191	2.67e+06	1.09	y 49:47	1.69	1060		*	2.5	*	1.008	1.004	1.014
Hepta	PCB-170	4.46e+07	1.06	y 50:45	1.60	25400		*	2.5	*	1.000	0.995	1.005
Hepta	PCB-190	1.19e+07	1.06	y 50:54	2.21	4910		*	2.5	*	1.003	0.998	1.008
Hepta	PCB-189	1.97e+06	1.00	y 52:12	1.55	826		*	2.5	*	1.000	0.995	1.005
Octa	PCB-202	5.91e+06	0.90	y 48:18	1.08	3060		*	2.5	*	1.000	0.995	1.005
Octa	PCB-201	4.14e+06	0.89	y 48:48	1.15	2020		*	2.5	*	1.011	1.005	1.015
Octa	PCB-204	*	*	n NotF┐	1.14	*		1800	2.5	24.0	*	1.008	1.018
Octa	PCB-197	1.18e+06	0.91	y 49:15	1.07	618		*	2.5	*	1.020	1.015	1.025
Octa	PCB-200	3.78e+06	0.88	y 50:02	1.06	2000		*	2.5	*	1.036	1.032	1.044
Octa	PCB-198	1.09e+06	0.91	y 51:18	0.76	807		*	2.5	*	1.062	1.059	1.069
Octa	PCB-199	2.11e+07	0.89	y 51:23	0.80	14900		*	2.5	*	1.064	1.061	1.071
Octa	PCB-196/203	2.42e+07	0.89	y 51:40	0.80	17000		*	2.5	*	1.070	1.066	1.076
Octa	PCB-195	9.46e+06	0.89	y 52:47	1.23	5490		*	2.5	*	0.983	0.979	0.989
Octa	PCB-194	2.39e+07	0.91	y 53:44	1.21	14000		*	2.5	*	1.000	0.995	1.005
Octa	PCB-205	1.36e+06	0.99	y 54:02	1.54	626		*	2.5	*	1.006	1.001	1.011
Nona	PCB-208	1.42e+06	1.36	y 52:56	0.93	906		*	2.5	*	1.000	0.995	1.005
Nona	PCB-207	8.96e+05	1.38	y 53:15	1.08	491		*	2.5	*	1.006	1.001	1.011
Nona	PCB-206	4.25e+06	1.33	y 55:28	1.02	3890		*	2.5	*	1.000	0.995	1.005
Deca	PCB-209	3.62e+05	1.11	y 56:44	1.17	306		*	2.5	*	1.000	0.995	1.005

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Date: 10/30/14

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	6.87e+05	2.87	y	16:27	1.27	112.173	
Total Di-PCB	7.95e+06	1.54	y	23:02	1.21	1900.98	
Total Tri-PCB	5.05e+06	1.19	y	24:18	1.10	1349.63	
Total Tri-PCB	1.40e+07	1.01	y	28:28	1.21	2866.83	Sum:4216.46
Total Tetra-PCB	2.28e+08	0.77	y	29:46	1.09	66350.2	
Total Penta-PCB	9.54e+08	1.69	y	34:25	1.18	348958	
Total Penta-PCB	7.63e+07	1.59	y	42:12	1.25	23390.9	Sum:372349
Total Hexa-PCB	2.44e+08	1.15	y	38:16	0.90	118258	
Total Hexa-PCB	8.12e+08	1.21	y	42:08	1.11	292733	Sum:410991
Total Hepta-PCB	4.93e+08	1.01	y	42:50	1.42	225263	
Total Octa-PCB	6.14e+07	0.90	y	48:18	0.96	40312.9	
Total Octa-PCB	3.47e+07	0.89	y	52:47	1.33	20141.6	Sum:60454.5
Total Nona-PCB	6.57e+06	1.36	y	52:56	1.01	5290.55	
Total Deca-PCB	3.62e+05	1.11	y	56:44	1.17	305.605	

Total PCB Conc:1147562.99184

Integrations
by
Analyst: DMS

Date: 10/30/14

Client ID: CC-A-01-20141013-S Filename: 141024E2 S:7 Acq:25-OCT-14 08:31:59 ConCal: ST141024E2-1
Lab ID: 1400762-03@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:10.01¶ EndCAL: NA

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	5.27e+06	3.11	y	0.87	16:26	0.632	0.629	0.635	1190	119
13C-PCB-3	4.75e+06	3.14	y	0.91	18:56	0.729	0.725	0.733	1020	102
13C-PCB-4	2.50e+06	1.59	y	0.59	20:14	0.779	0.775	0.783	837	83.8
13C-PCB-9	4.03e+06	1.56	y	0.90	21:58	0.845	0.842	0.850	882	88.3
13C-PCB-11	3.61e+06	1.63	y	0.94	25:17	0.973	0.968	0.978	757	75.7
13C-PCB-19	2.64e+06	0.91	y	0.53	24:16	0.934	0.930	0.940	975	97.6
13C-PCB-28	3.77e+06	1.18	y	0.93	29:04	1.003	0.999	1.009	953	95.4
13C-PCB-32	4.37e+06	1.11	y	0.80	27:08	1.044	1.040	1.050	1080	108
13C-PCB-37	3.49e+06	1.03	y	0.84	32:58	1.137	1.131	1.143	978	97.9
13C-PCB-47	2.78e+06	0.76	y	0.81	31:58	0.871	0.866	0.874	835	83.5
13C-PCB-52	2.93e+06	0.81	y	0.77	31:27	0.857	0.853	0.861	925	92.6
13C-PCB-54	3.40e+06	0.83	y	0.97	27:58	0.762	0.758	0.766	855	85.6
13C-PCB-70	3.76e+06	0.79	y	1.00	35:28	0.966	0.961	0.971	919	92.0
13C-PCB-77	3.03e+06	0.72	y	0.94	39:36	1.079	1.073	1.083	784	78.5
13C-PCB-80	3.77e+06	0.75	y	1.03	35:53	0.977	0.972	0.982	890	89.1
13C-PCB-81	3.07e+06	0.71	y	0.92	39:01	1.063	1.057	1.067	812	81.3
13C-PCB-95	2.20e+06	1.75	y	0.74	35:45	0.912	0.908	0.918	1030	103
13C-PCB-97	1.88e+06	1.32	y	0.70	38:46	0.989	0.984	0.994	924	92.5
13C-PCB-101	2.34e+06	1.74	y	0.78	37:26	0.955	0.951	0.961	1030	103
13C-PCB-104	2.69e+06	1.51	y	1.00	32:39	0.833	0.828	0.836	929	93.0
13C-PCB-105	2.54e+06	1.72	y	1.37	43:03	0.928	0.924	0.934	826	82.7
13C-PCB-114	2.51e+06	1.56	y	1.36	42:11	0.909	0.905	0.915	816	81.6
13C-PCB-118	2.51e+06	1.59	y	0.96	41:31	1.060	1.054	1.064	906	90.7
13C-PCB-123	2.40e+06	1.60	y	0.89	41:20	1.055	1.050	1.060	930	93.1
13C-PCB-126	2.14e+06	1.67	y	1.31	45:19	0.977	0.972	0.982	726	72.7
13C-PCB-127	2.72e+06	1.51	y	1.47	43:23	0.935	0.931	0.941	818	81.9
13C-PCB-138	2.11e+06	1.25	y	1.10	44:48	0.966	0.961	0.971	851	85.1
13C-PCB-141	2.18e+06	1.35	y	1.07	43:57	0.948	0.943	0.953	901	90.2
13C-PCB-153	2.46e+06	1.27	y	1.15	43:12	0.931	0.927	0.937	951	95.2
13C-PCB-155	2.58e+06	1.26	y	0.84	36:59	0.944	0.939	0.949	1070	107
13C-PCB-156	2.57e+06	1.16	y	1.30	48:07	1.037	1.032	1.042	880	88.1
13C-PCB-157	2.74e+06	1.23	y	1.36	48:23	1.043	1.038	1.048	896	89.7
13C-PCB-159	2.68e+06	1.28	y	1.25	46:07	0.994	0.989	0.999	952	95.3
13C-PCB-167	2.70e+06	1.27	y	1.35	46:48	1.009	1.004	1.014	887	88.8
13C-PCB-169	2.33e+06	1.11	y	1.29	50:25	1.087	1.083	1.093	803	80.4
13C-PCB-170	1.10e+06	0.41	y	0.54	50:44	1.094	1.089	1.101	898	89.9
13C-PCB-180	1.49e+06	0.51	y	0.68	49:22	1.064	1.060	1.070	968	96.9
13C-PCB-188	2.08e+06	0.44	y	0.92	42:49	0.923	0.919	0.929	1000	101
13C-PCB-189	1.53e+06	0.49	y	0.72	52:11	1.125	1.120	1.132	950	95.1
13C-PCB-194	1.41e+06	0.93	y	0.80	53:43	0.994	0.990	1.000	989	99.0
13C-PCB-202	1.78e+06	1.01	y	0.84	48:17	1.041	1.036	1.046	942	94.3
13C-PCB-206	1.07e+06	0.82	y	0.65	55:27	1.027	1.021	1.031	921	92.2
13C-PCB-208	1.68e+06	0.73	y	1.08	52:55	0.980	0.976	0.986	875	87.6
13C-PCB-209	1.01e+06	1.12	y	0.61	56:43	1.050	1.045	1.055	929	93.0

CRS vs. RS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	3.45e+06	0.84	y	1.02	37:46	1.029	1.023	1.034	827	82.8
13C-PCB-178	1.24e+06	0.49	y	0.61	45:38	0.984	0.979	0.990	898	89.9

PS vs. IS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	3.45e+06	0.84	y	1.10	37:46	0.968	0.964	0.974	1020	102
13C-PCB-178	1.24e+06	0.49	y	0.90	45:38	0.924	0.920	0.930	927	92.8

RS

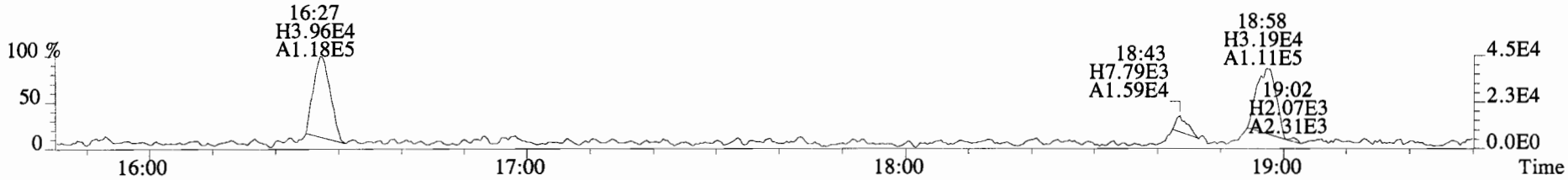
Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	5.08e+06	1.66	y	1.00	25:59	999
13C-PCB-31	4.24e+06	1.09	y	1.00	28:59	999
13C-PCB-60	4.10e+06	0.77	y	1.00	36:43	999
13C-PCB-111	2.88e+06	1.75	y	1.00	39:11	999
13C-PCB-128	2.25e+06	1.15	y	1.00	46:23	999
13C-PCB-205	1.78e+06	0.96	y	1.00	54:01	999

Analyst: DMS

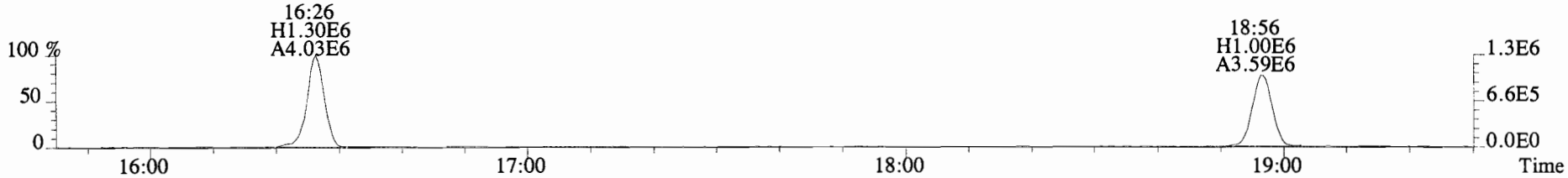
Date: 10/30/14

File:141024E2 #1-728 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
188.0393 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3028.0,0.00%,F,F)

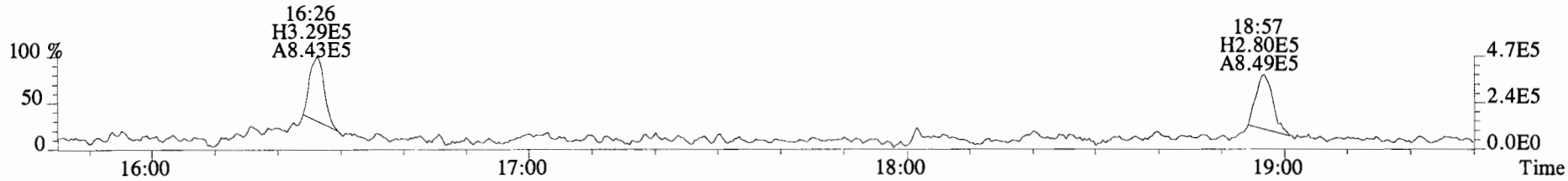
190.0363 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3884.0,0.00%,F,F)



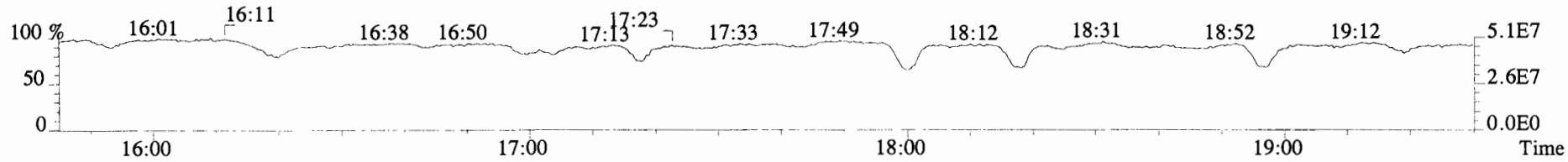
200.0795 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4888.0,0.00%,F,F)



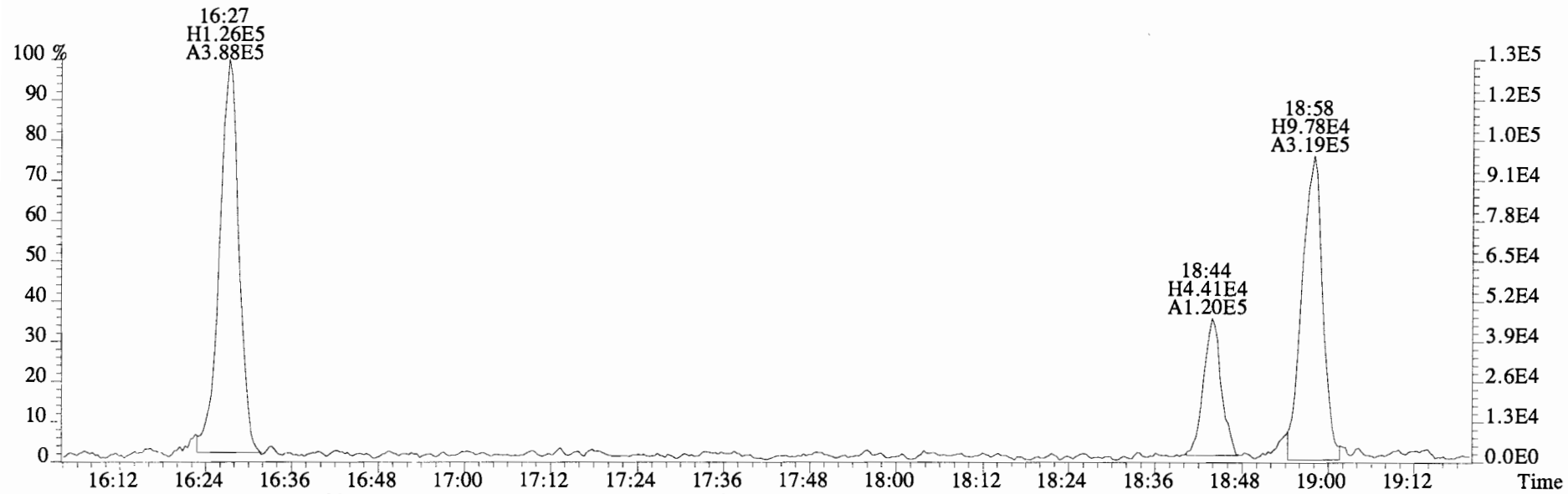
202.0766 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,67516.0,0.00%,F,F)



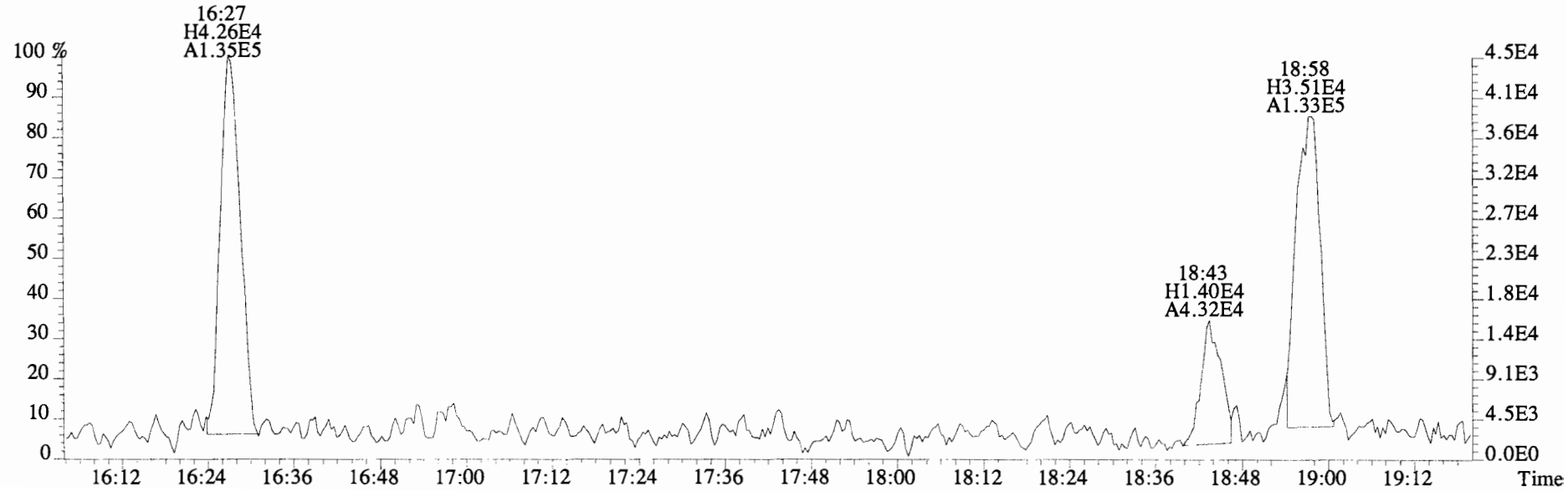
180.9880 S:7



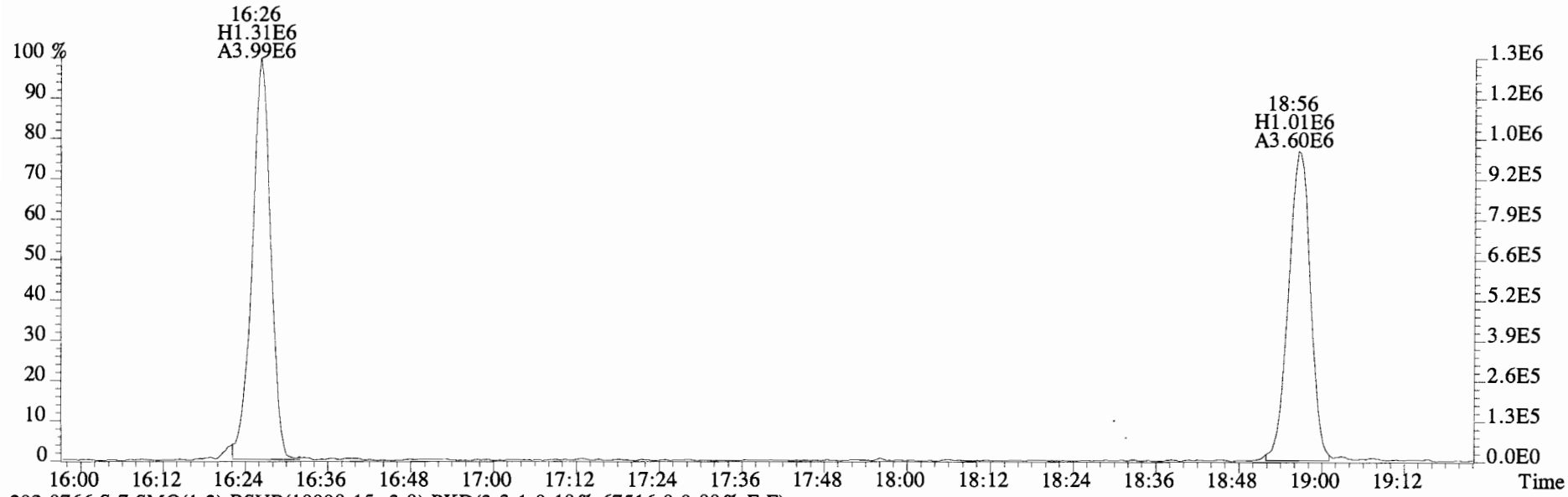
File:141024E2 #1-728 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
188.0393 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3028.0,0.00%,F,F)



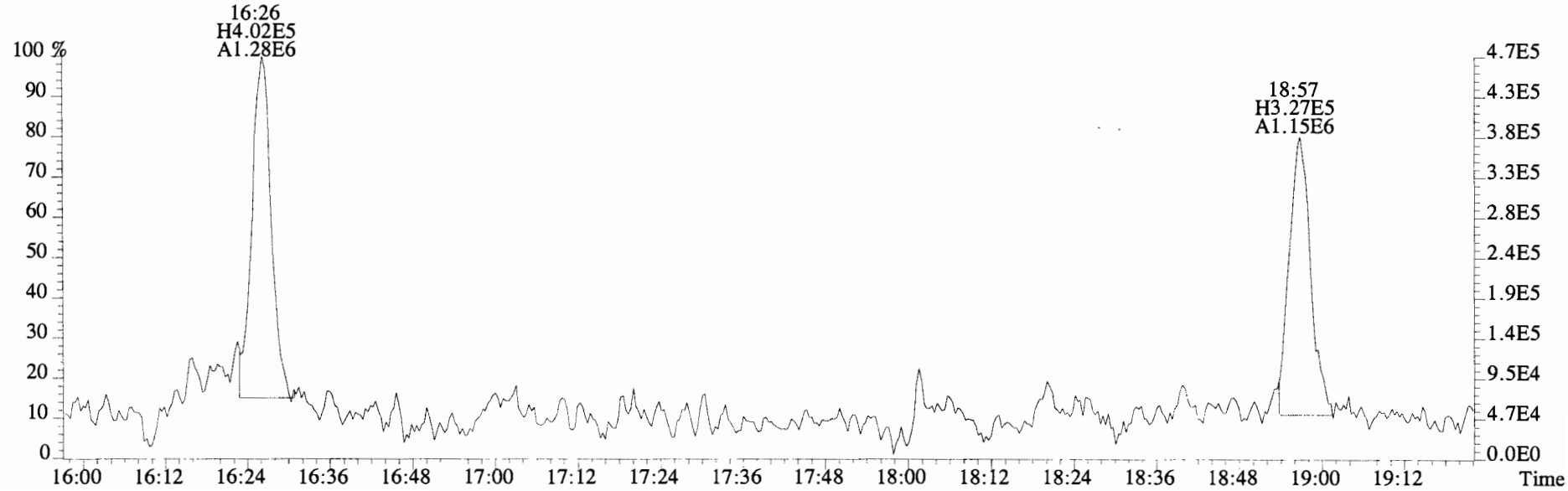
190.0363 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3884.0,0.00%,F,F)



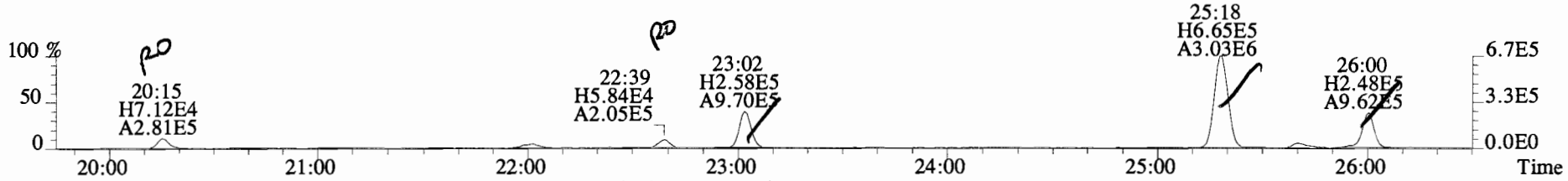
File:141024E2 #1-728 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
200.0795 S:7 SMO(1,3) BSUB(10000,15,-3.0)



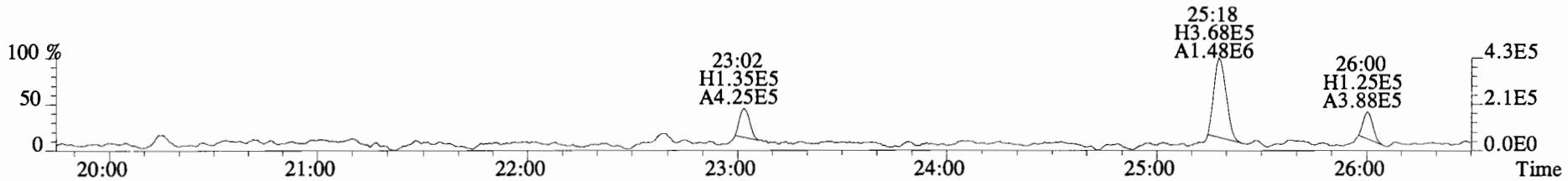
202.0766 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,67516.0,0.00%,F,F)



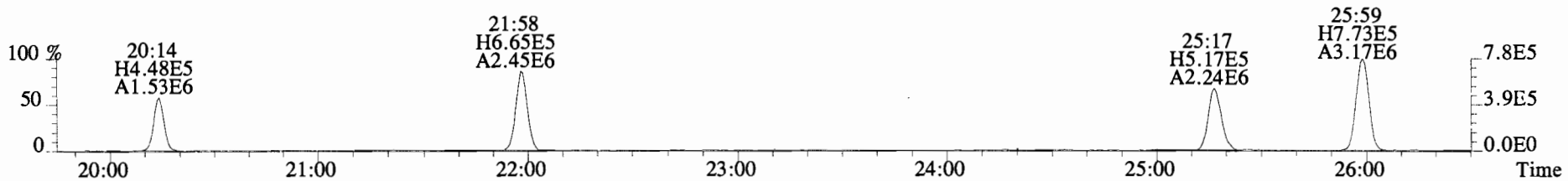
File:141024E2 #1-757 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
222.0003 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3804.0,0.00%,F,F)



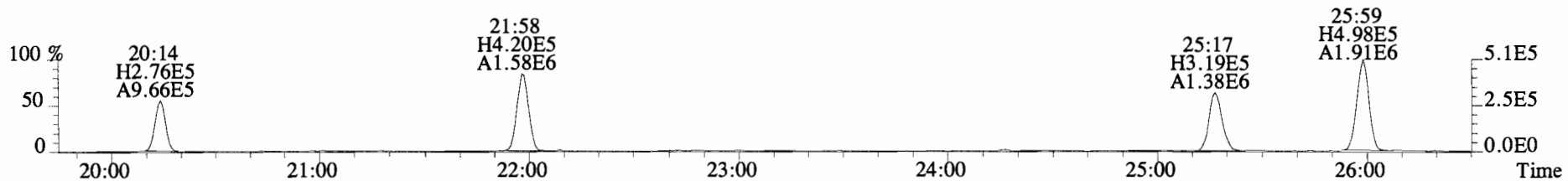
223.9974 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41560.0,0.00%,F,F)



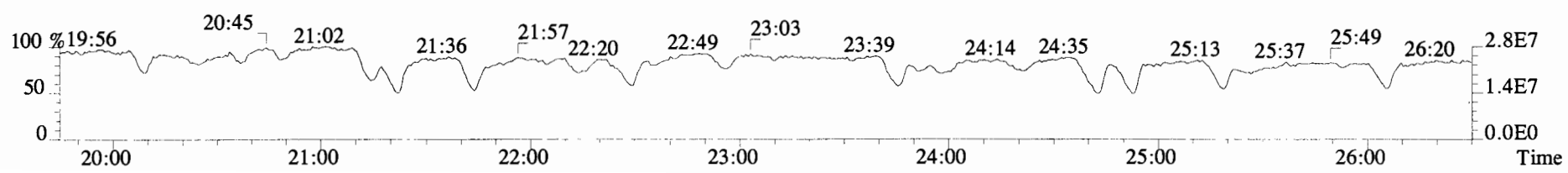
234.0406 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4468.0,0.00%,F,F)



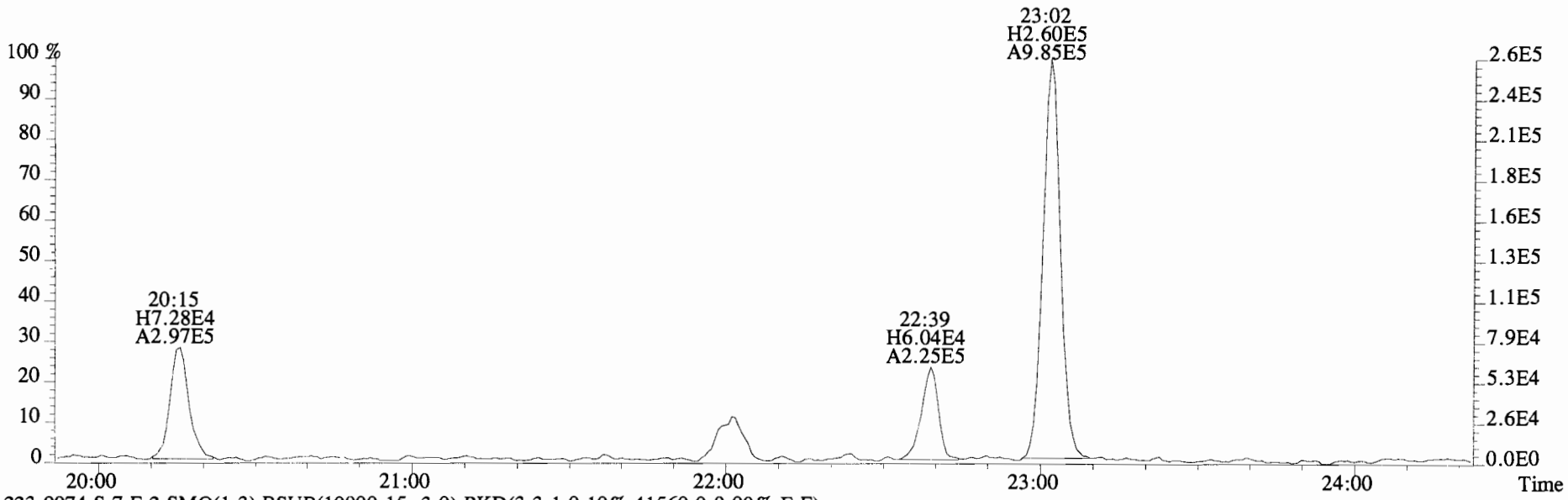
236.0376 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4172.0,0.00%,F,F)



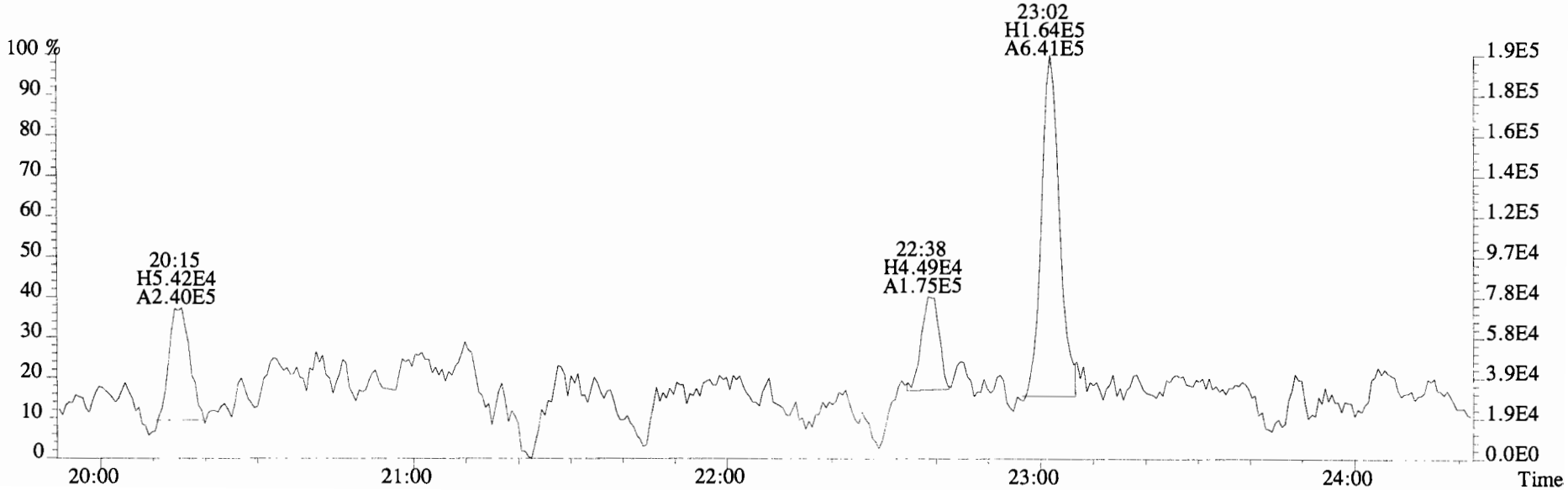
230.9856 S:7 F:2



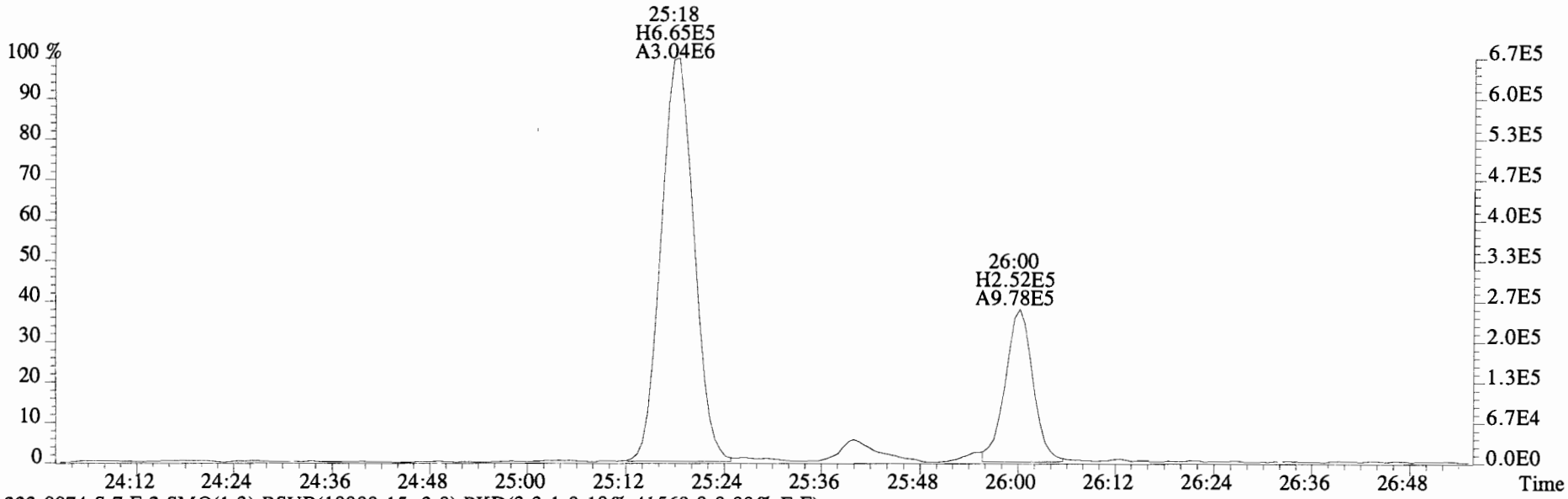
File:141024E2 #1-757 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
222.0003 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3804.0,0.00%,F,F)



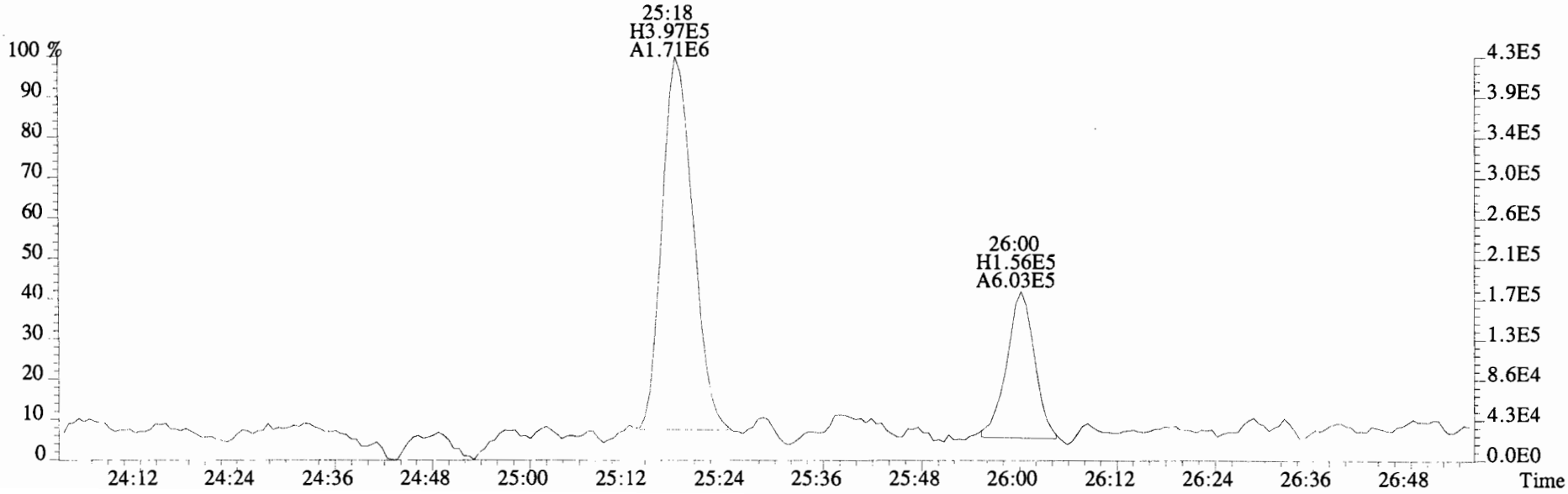
223.9974 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41560.0,0.00%,F,F)



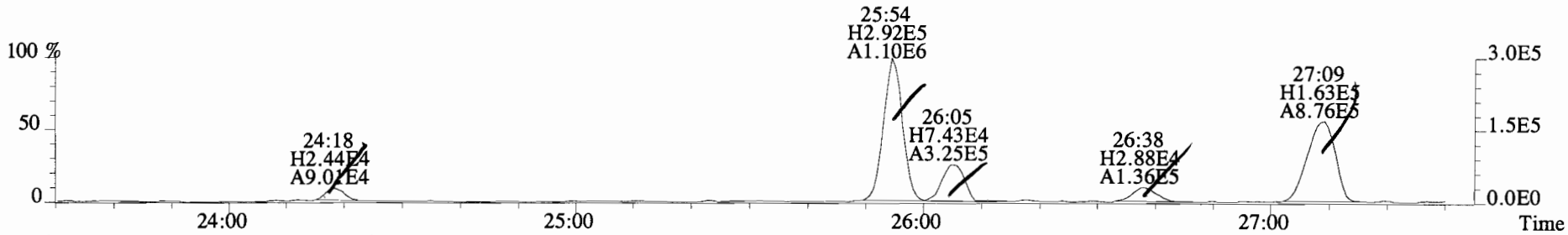
File:141024E2 #1-757 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
222.0003 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3804.0,0.00%,F,F)



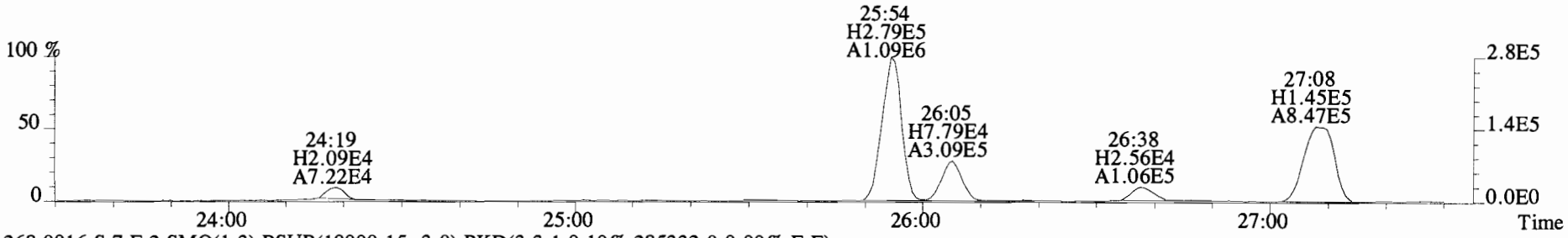
223.9974 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41560.0,0.00%,F,F)



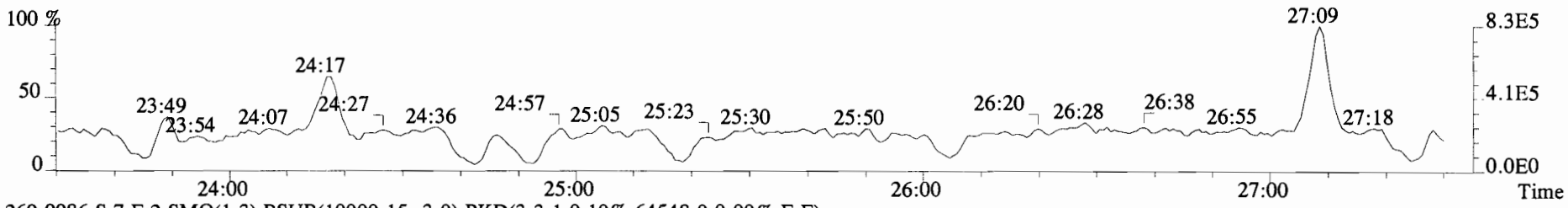
File:141024E2 #1-757 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
255.9613 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3764.0,0.00%,F,F)



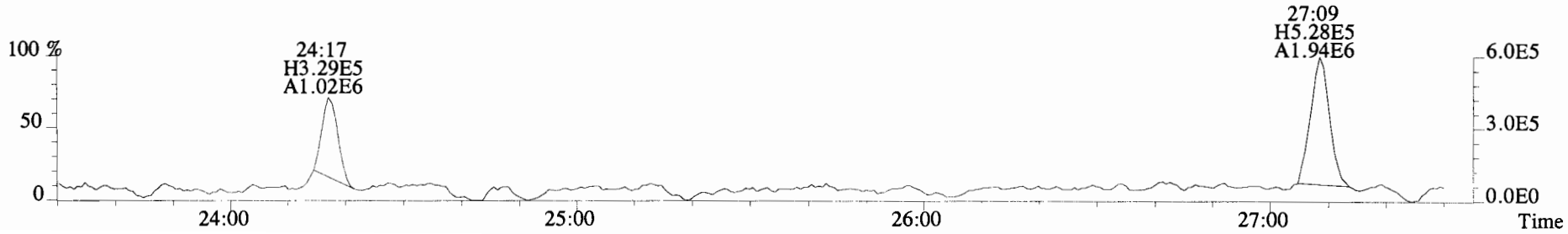
257.9584 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2208.0,0.00%,F,F)



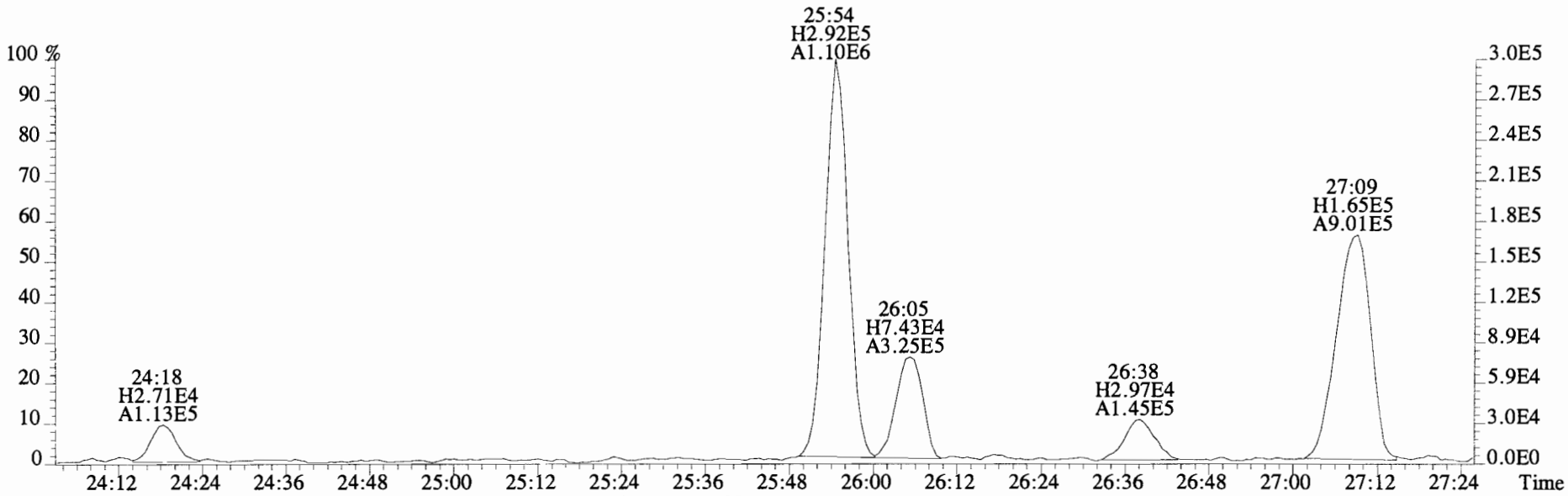
268.0016 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,285332.0,0.00%,F,F)



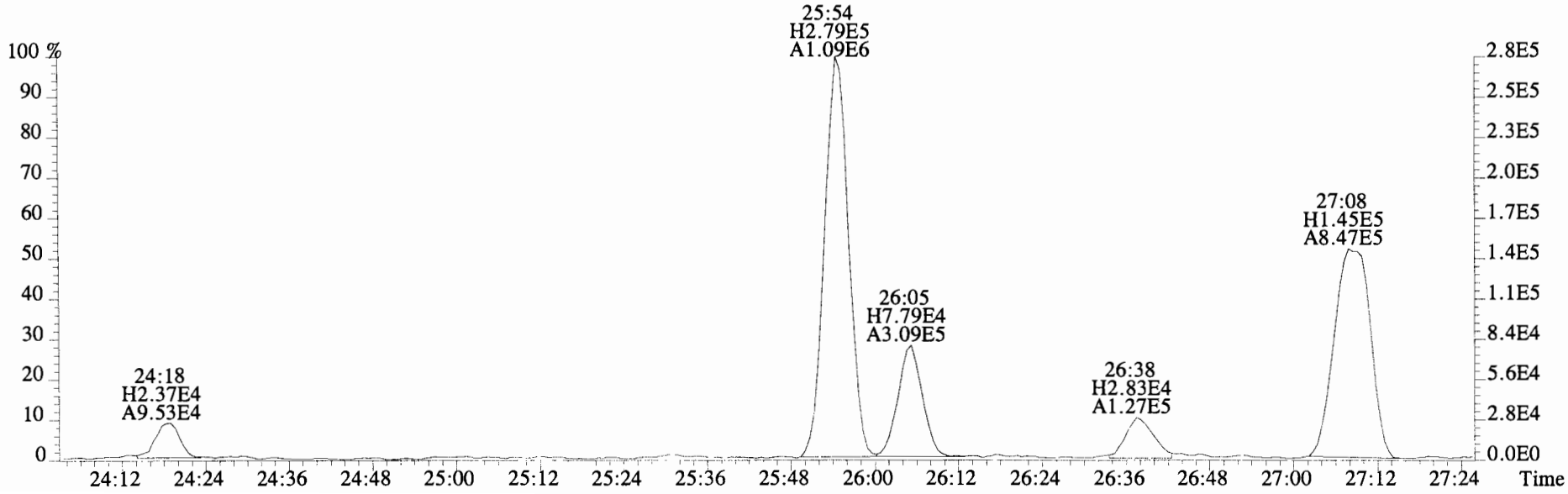
269.9986 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,64548.0,0.00%,F,F)



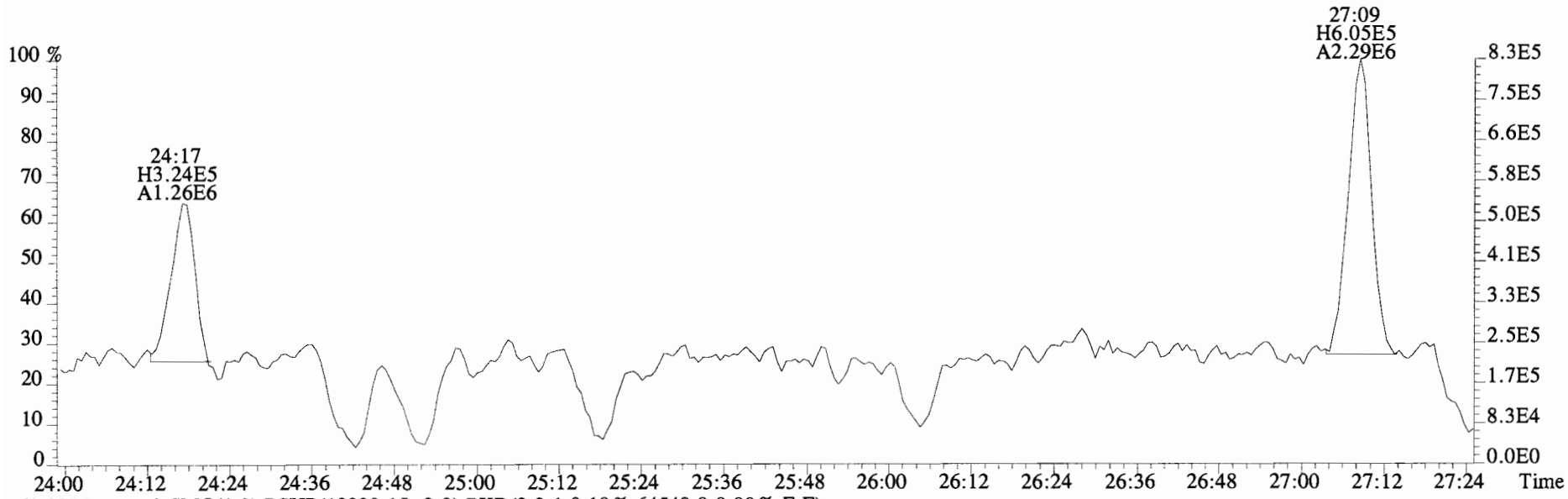
File:141024E2 #1-757 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
255.9613 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3764.0,0.00%,F,F)



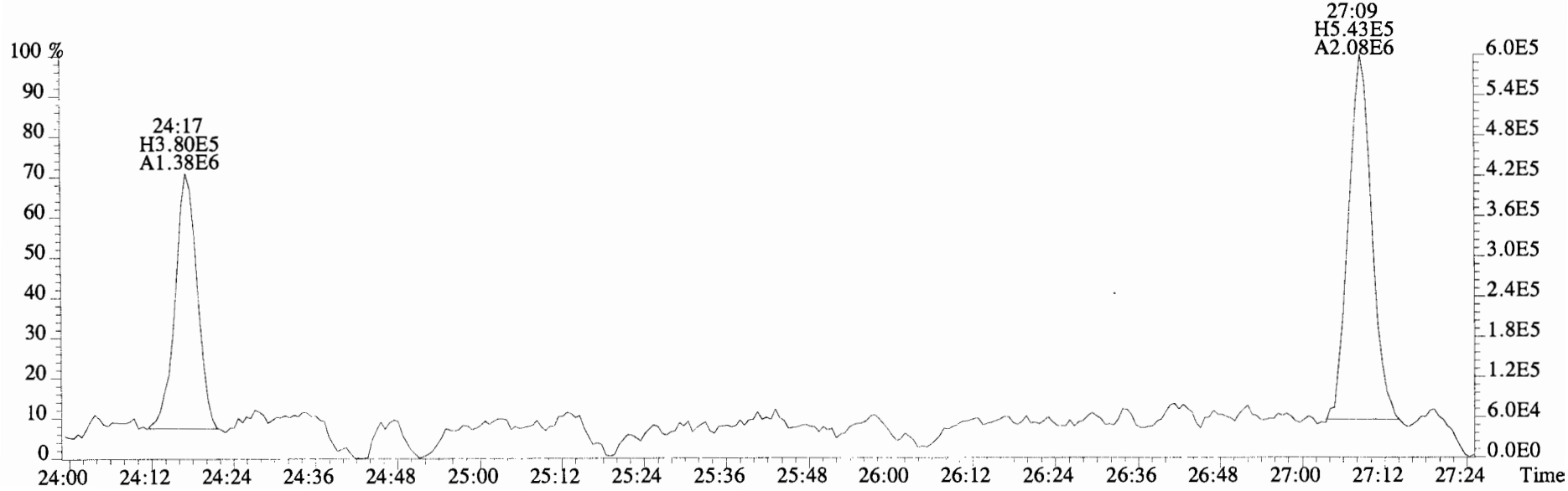
257.9584 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2208.0,0.00%,F,F)

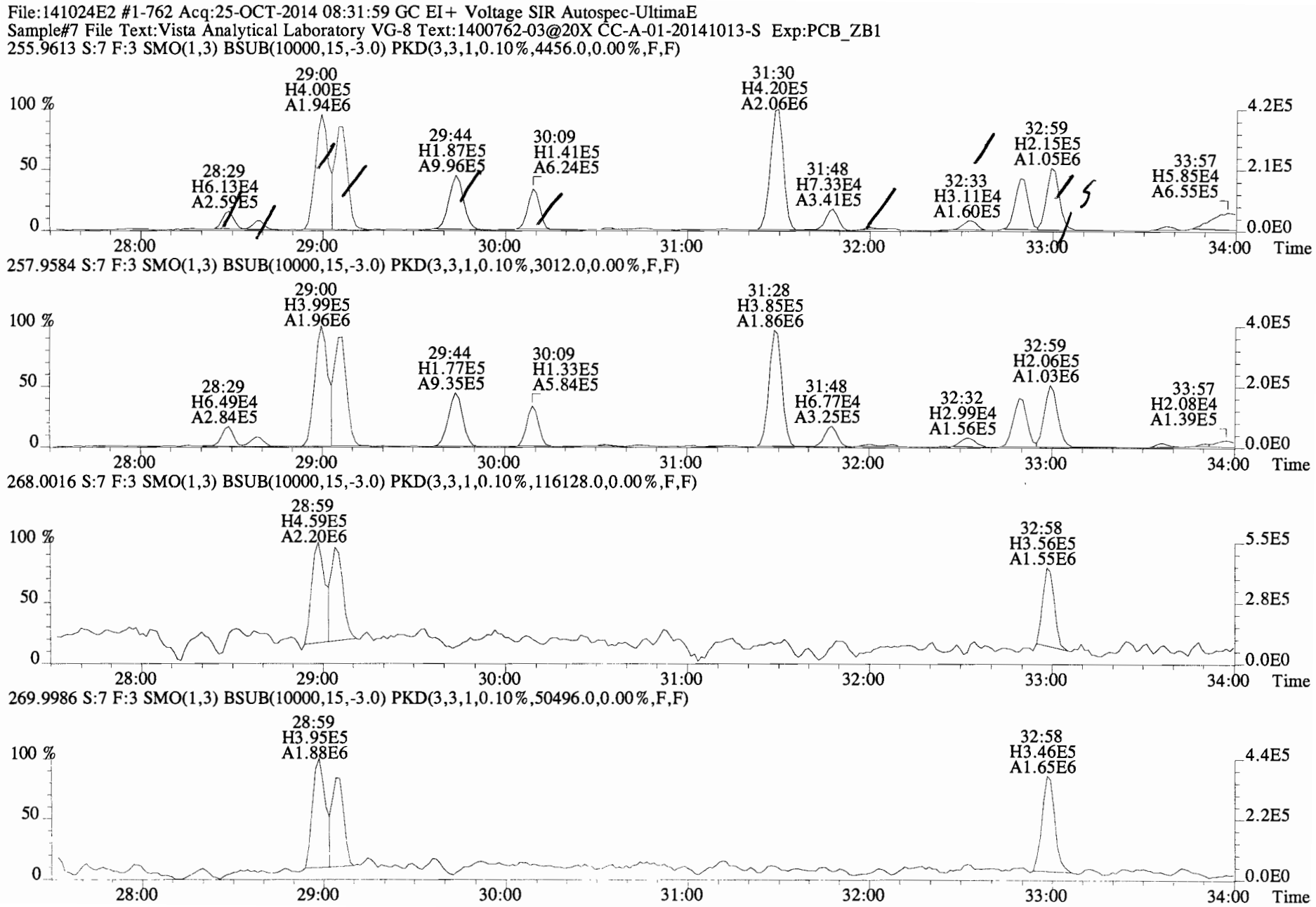


File:141024E2 #1-757 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
268.0016 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,285332.0,0.00%,F,F)

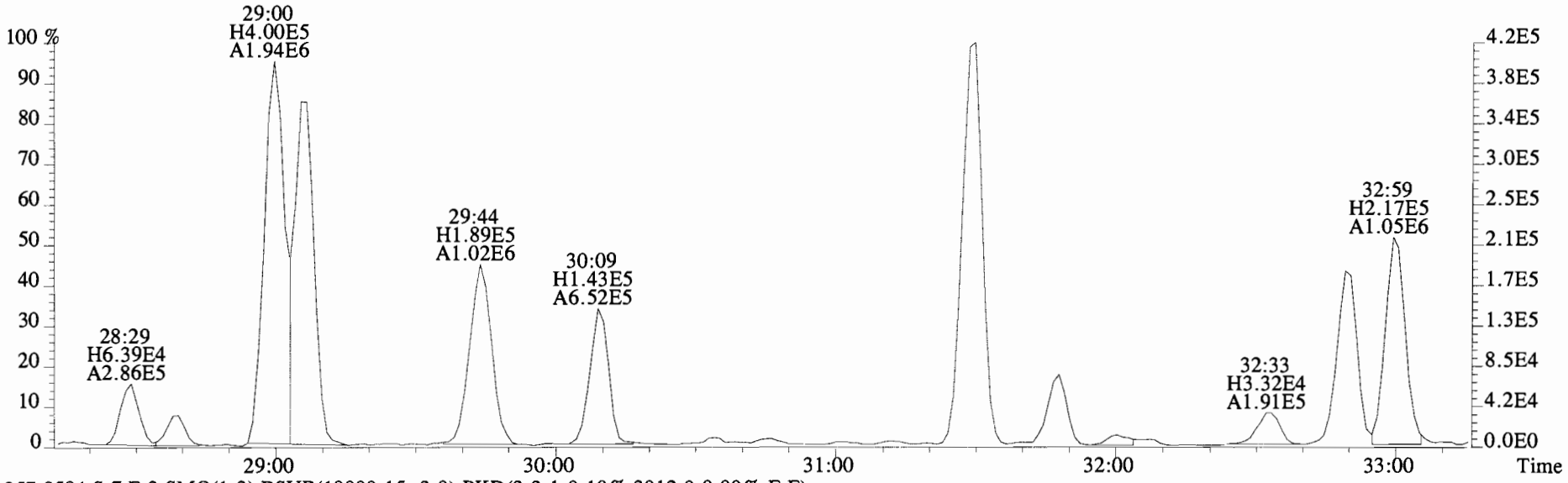


269.9986 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,64548.0,0.00%,F,F)

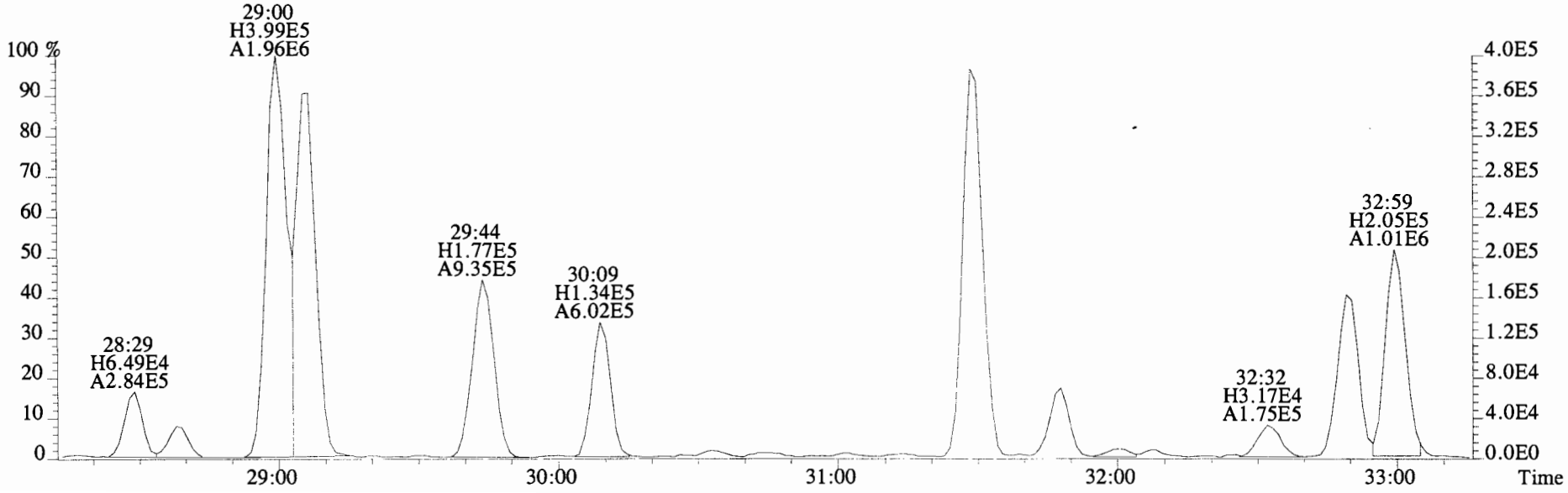



File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
255.9613 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4456.0,0.00%,F,F)
29:00 H4.00E5 A1.94E6
31:30 H4.20E5 A2.06E6
29:44 H1.87E5 A9.96E5
30:09 H1.41E5 A6.24E5
28:29 H6.13E4 A2.59E5
31:48 H7.33E4 A3.41E5
32:33 H3.11E4 A1.60E5
32:59 H2.15E5 A1.05E6
33:57 H5.85E4 A6.55E5
257.9584 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3012.0,0.00%,F,F)
29:00 H3.99E5 A1.96E6
31:28 H3.85E5 A1.86E6
29:44 H1.77E5 A9.35E5
30:09 H1.33E5 A5.84E5
28:29 H6.49E4 A2.84E5
31:48 H6.77E4 A3.25E5
32:32 H2.99E4 A1.56E5
32:59 H2.06E5 A1.03E6
33:57 H2.08E4 A1.39E5
268.0016 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,116128.0,0.00%,F,F)
28:59 H4.59E5 A2.20E6
32:58 H3.56E5 A1.55E6
269.9986 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,50496.0,0.00%,F,F)
28:59 H3.95E5 A1.88E6
32:58 H3.46E5 A1.65E6
100 %
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
Time
4.2E5
2.1E5
0.0E0
4.0E5
2.0E5
5.5E5
2.8E5
4.4E5
2.2E5

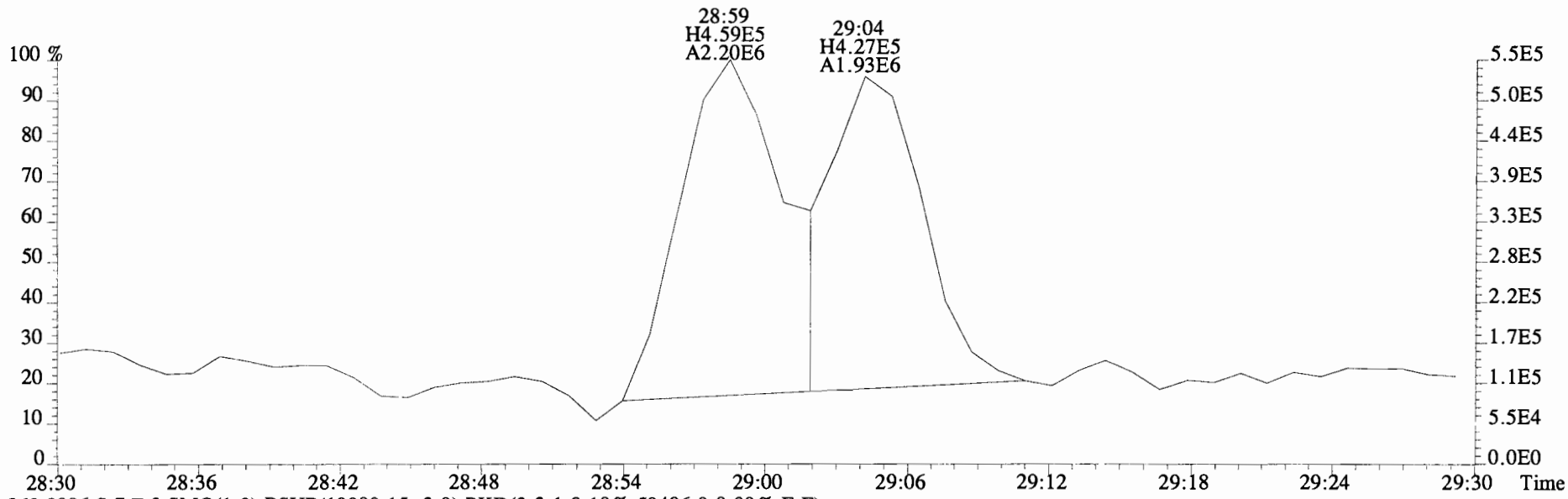
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
255.9613 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4456.0,0.00%,F,F)



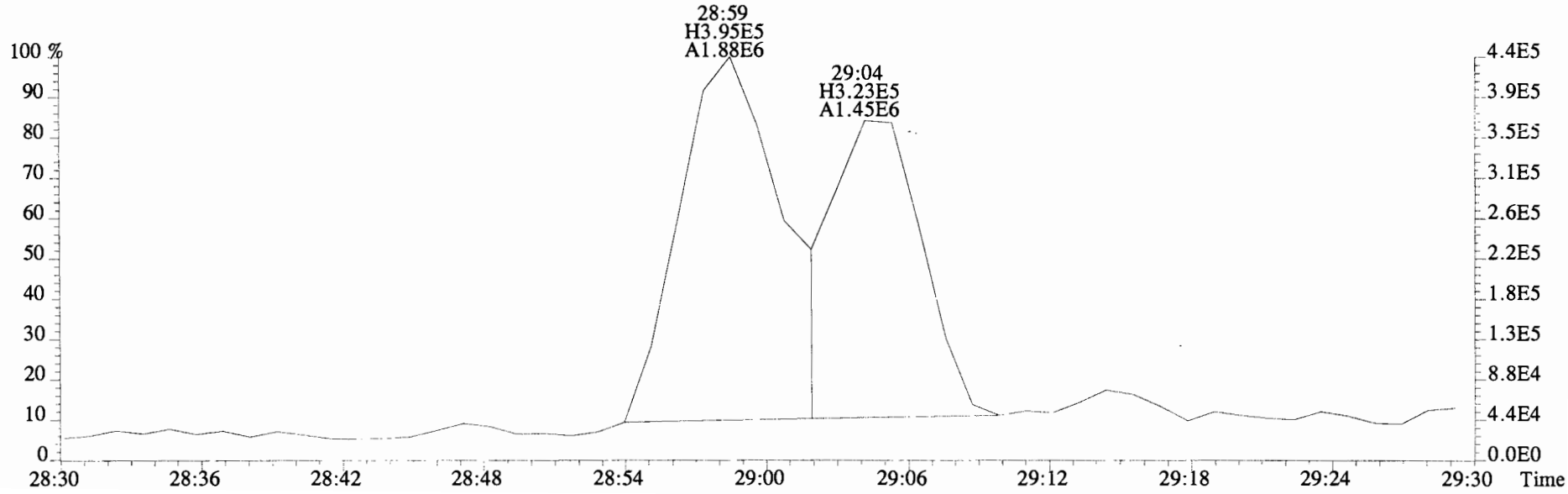
257.9584 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3012.0,0.00%,F,F)



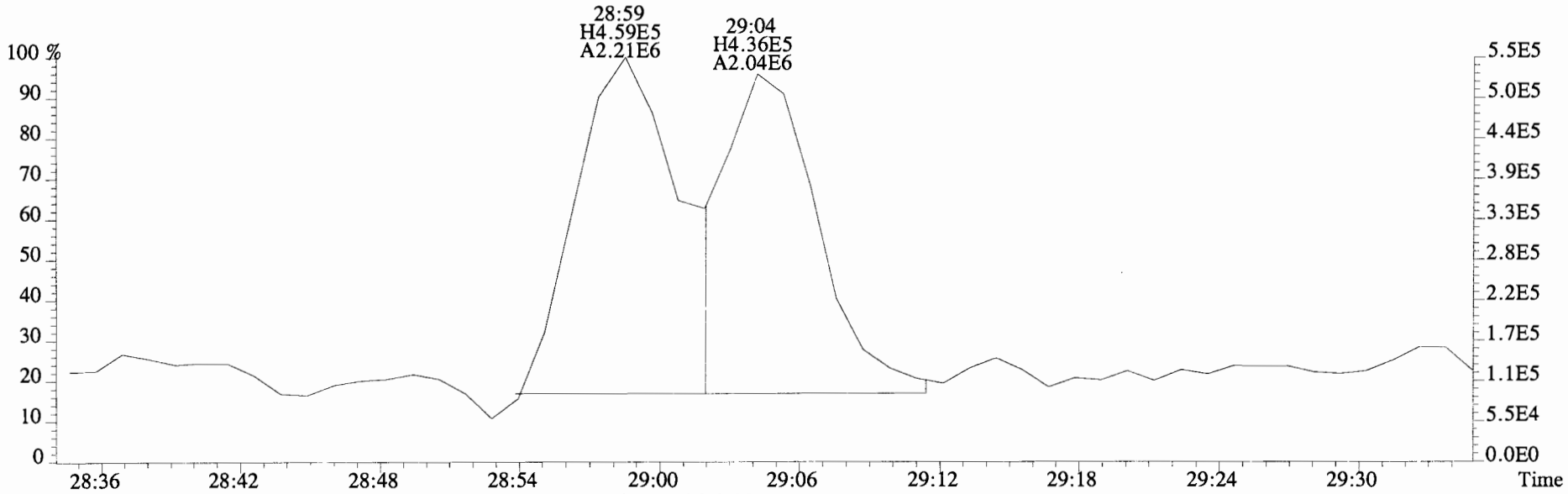
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
268.0016 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,116128.0,0.00%,F,F)



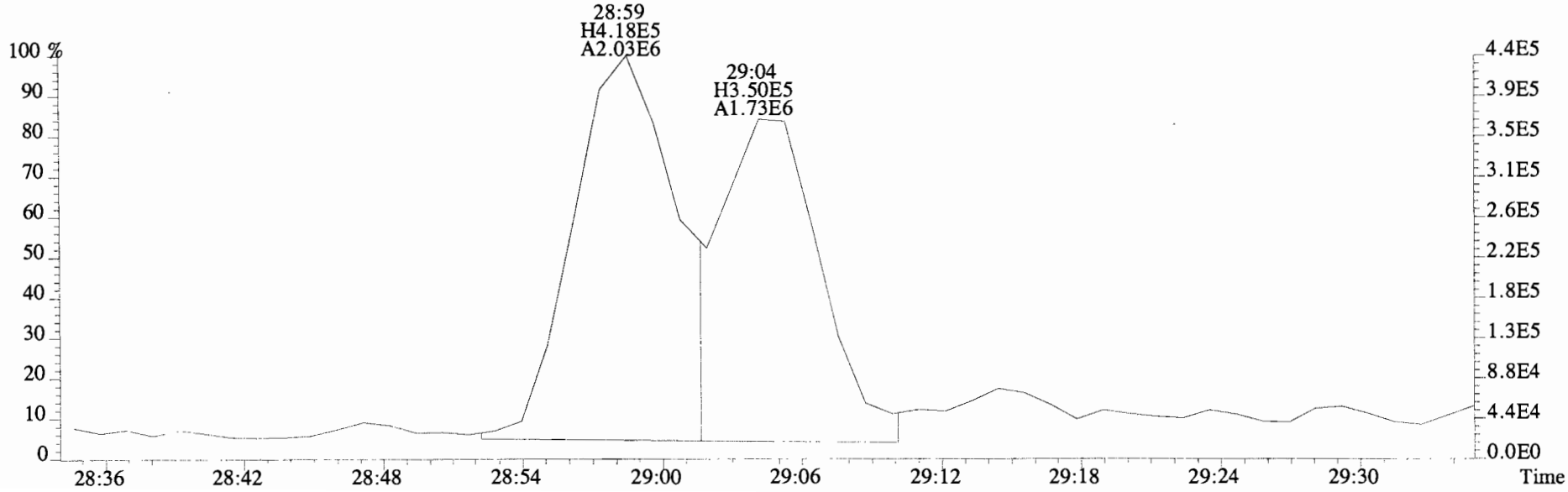
269.9986 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,50496.0,0.00%,F,F)



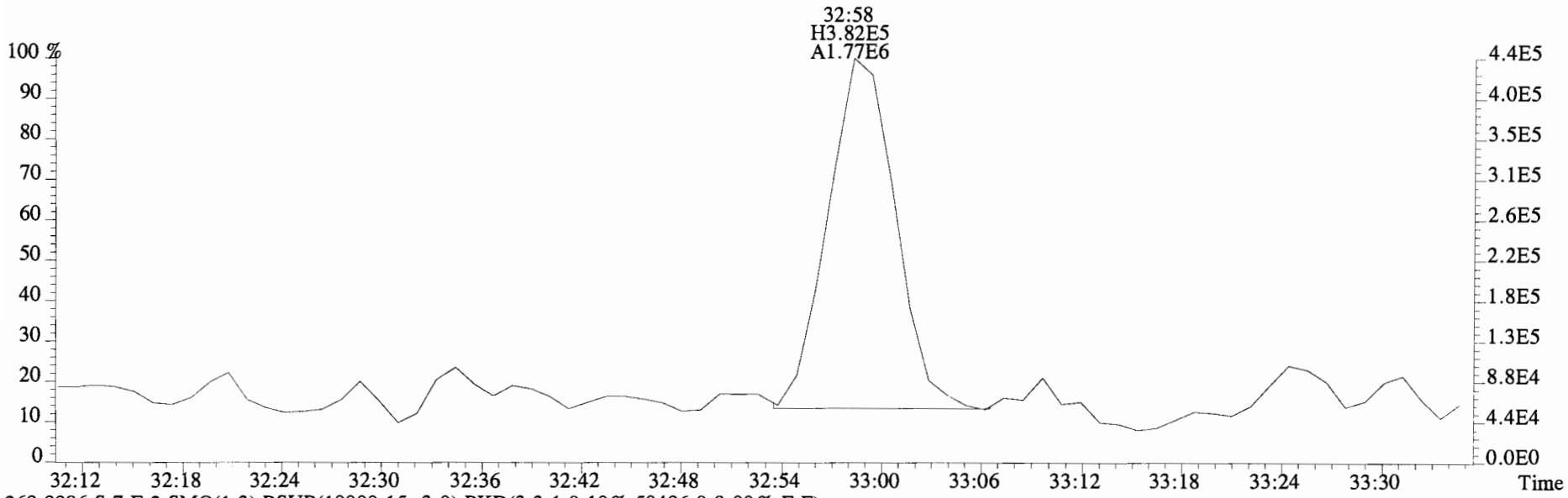
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
268.0016 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,116128.0,0.00%,F,F)



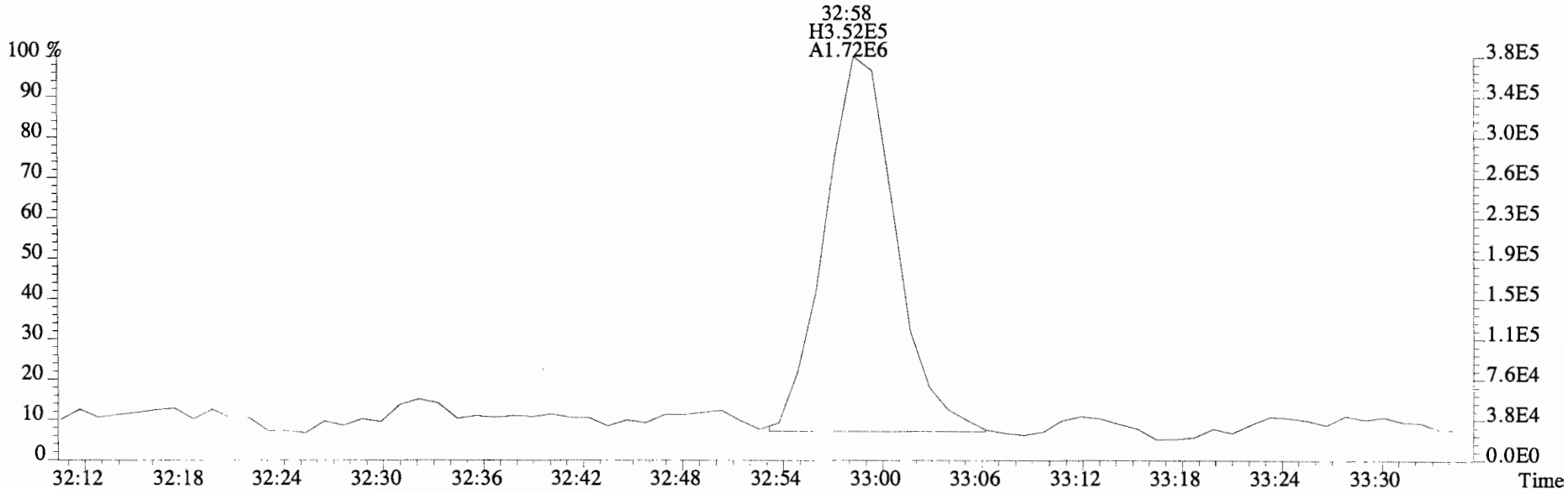
269.9986 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,50496.0,0.00%,F,F)

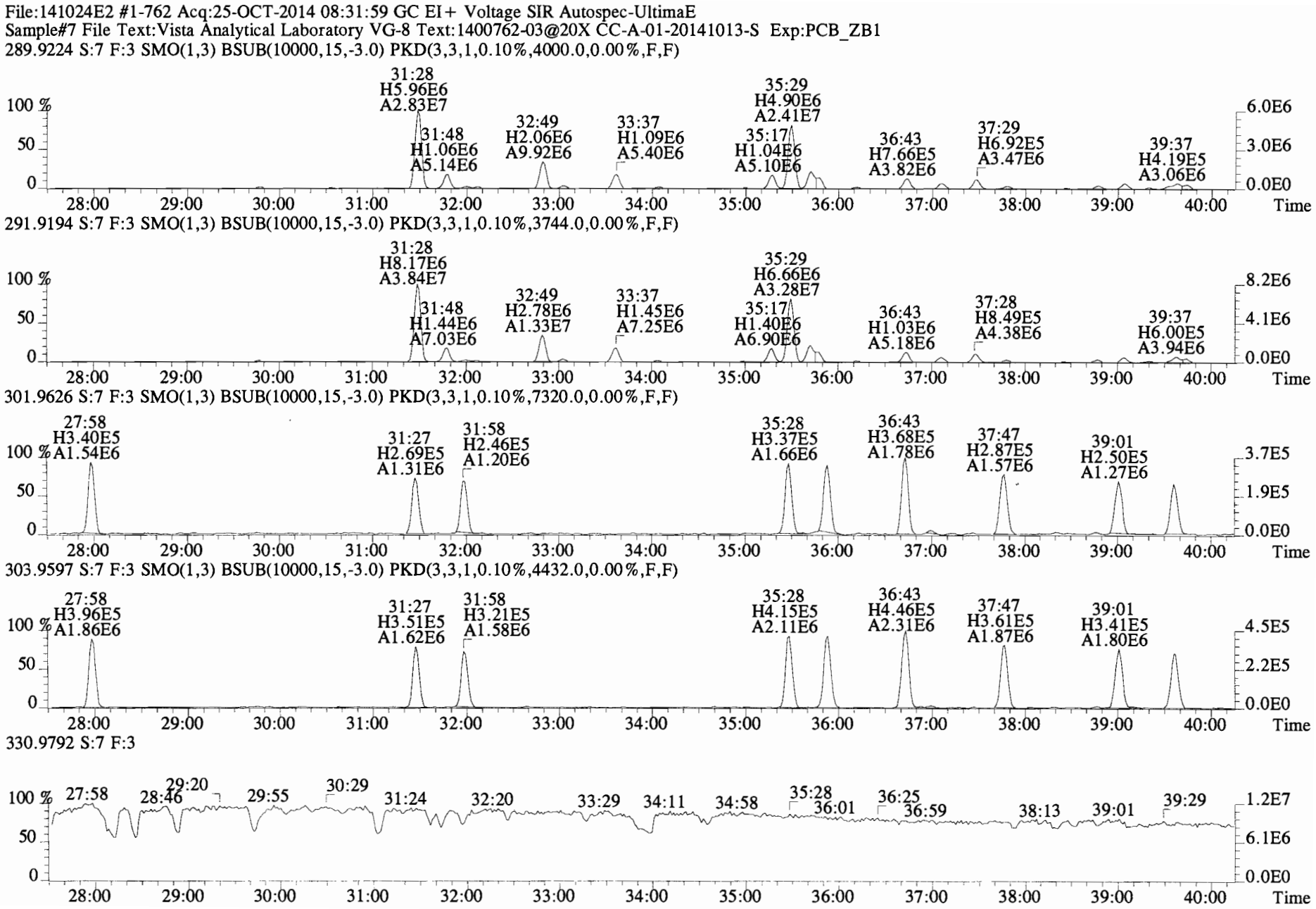


File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
268.0016 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,116128.0,0.00%,F,F)

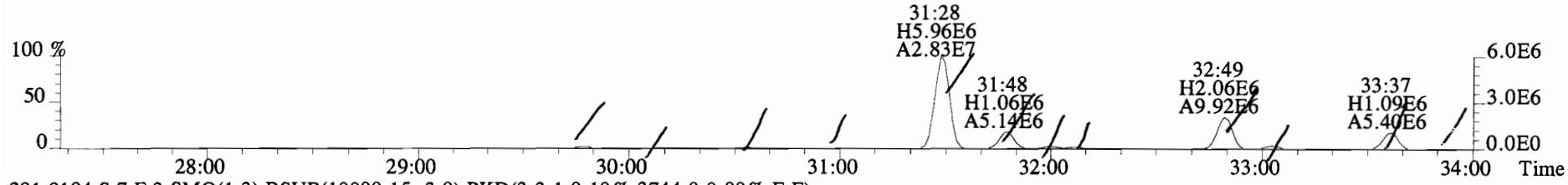


269.9986 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,50496.0,0.00%,F,F)

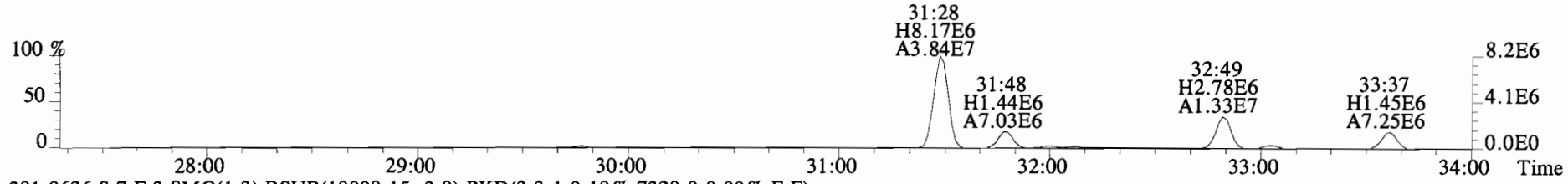



File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4000.0,0.00%,F,F)
31:28 H5.96E6 A2.83E7
31:48 H1.06E6 A5.14E6
32:49 H2.06E6 A9.92E6
33:37 H1.09E6 A5.40E6
35:29 H4.90E6 A2.41E7
35:17 H1.04E6 A5.10E6
36:43 H7.66E5 A3.82E6
37:29 H6.92E5 A3.47E6
39:37 H4.19E5 A3.06E6
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3744.0,0.00%,F,F)
31:28 H8.17E6 A3.84E7
31:48 H1.44E6 A7.03E6
32:49 H2.78E6 A1.33E7
33:37 H1.45E6 A7.25E6
35:29 H6.66E6 A3.28E7
35:17 H1.40E6 A6.90E6
36:43 H1.03E6 A5.18E6
37:28 H8.49E5 A4.38E6
39:37 H6.00E5 A3.94E6
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7320.0,0.00%,F,F)
27:58 H3.40E5 A1.54E6
31:27 H2.69E5 A1.31E6
31:58 H2.46E5 A1.20E6
35:28 H3.37E5 A1.66E6
36:43 H3.68E5 A1.78E6
37:47 H2.87E5 A1.57E6
39:01 H2.50E5 A1.27E6
303.9597 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4432.0,0.00%,F,F)
27:58 H3.96E5 A1.86E6
31:27 H3.51E5 A1.62E6
31:58 H3.21E5 A1.58E6
35:28 H4.15E5 A2.11E6
36:43 H4.46E5 A2.31E6
37:47 H3.61E5 A1.87E6
39:01 H3.41E5 A1.80E6
330.9792 S:7 F:3
27:58
28:46
29:20
29:55
30:29
31:24
32:20
33:29
34:11
34:58
35:28
36:01
36:25
36:59
38:13
39:01
39:29
100 %
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
37:00
38:00
39:00
40:00
Time
6.0E6
3.0E6
0.0E0
8.2E6
4.1E6
3.7E5
1.9E5
4.5E5
2.2E5
1.2E7
6.1E6

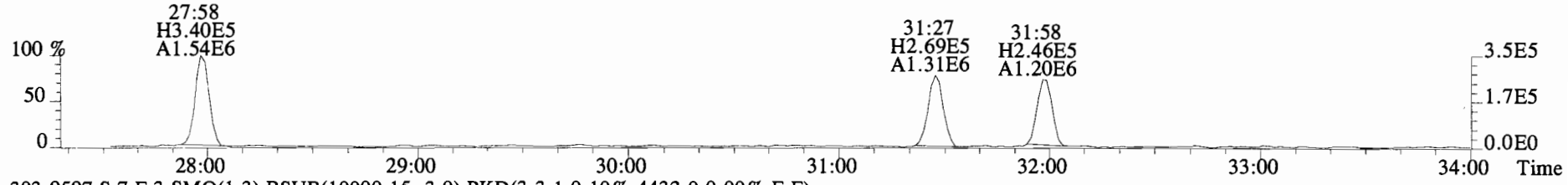
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4000.0,0.00%,F,F)



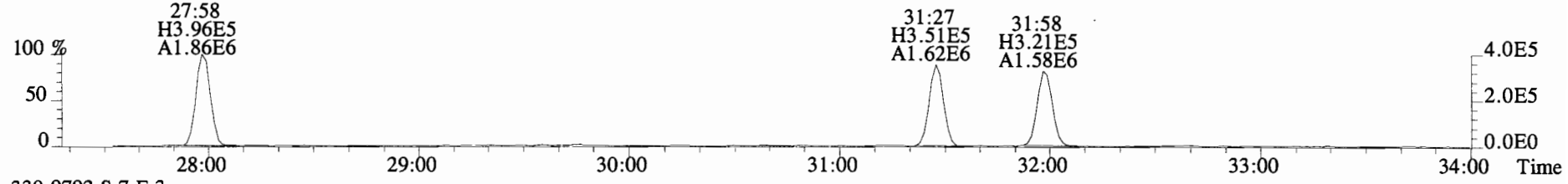
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3744.0,0.00%,F,F)



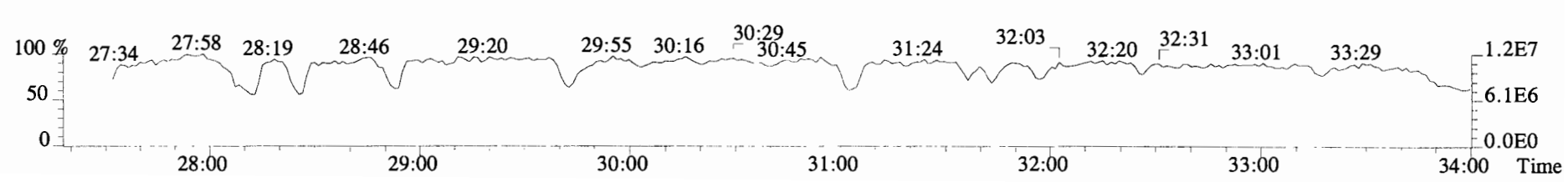
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7320.0,0.00%,F,F)

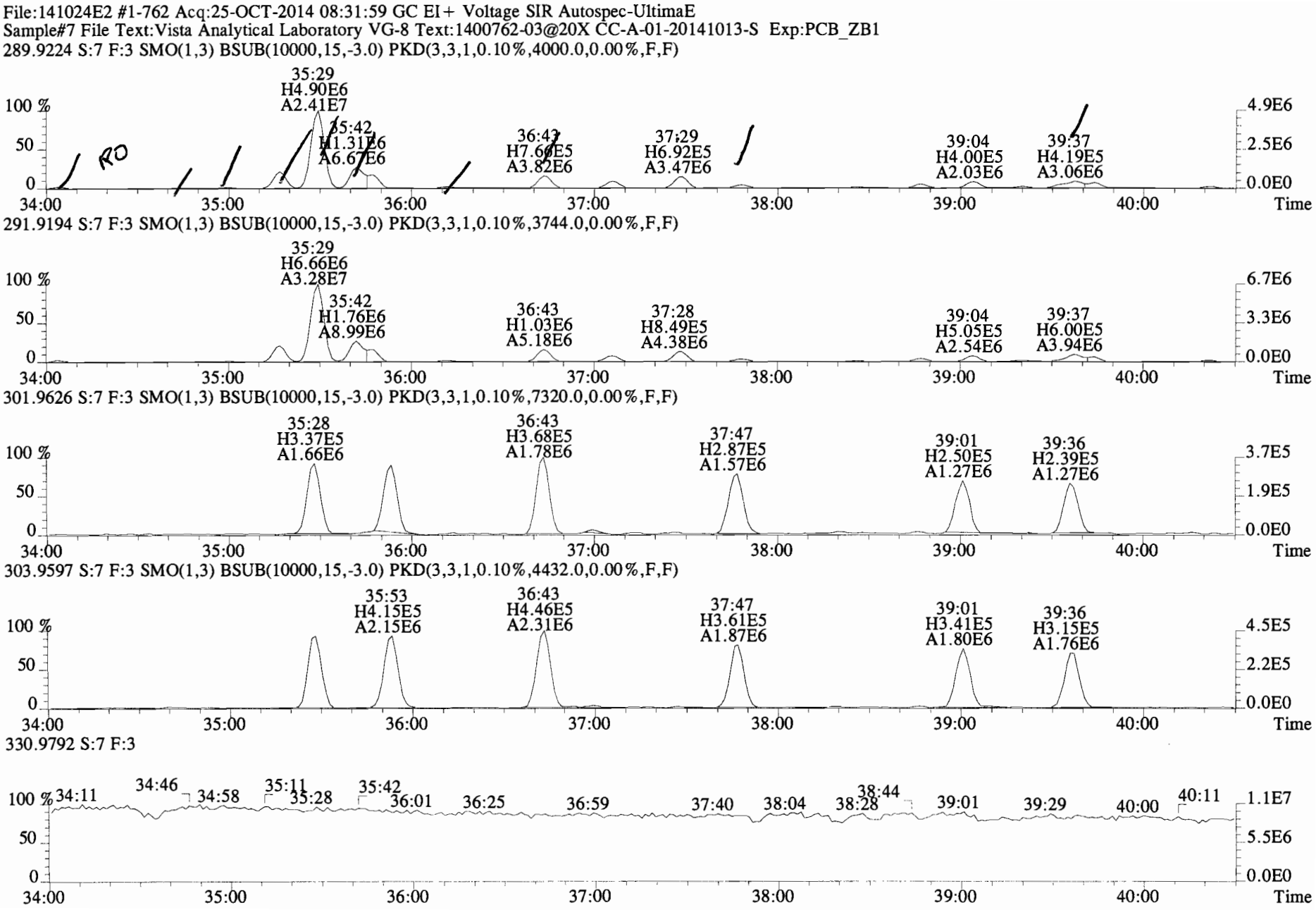


303.9597 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4432.0,0.00%,F,F)

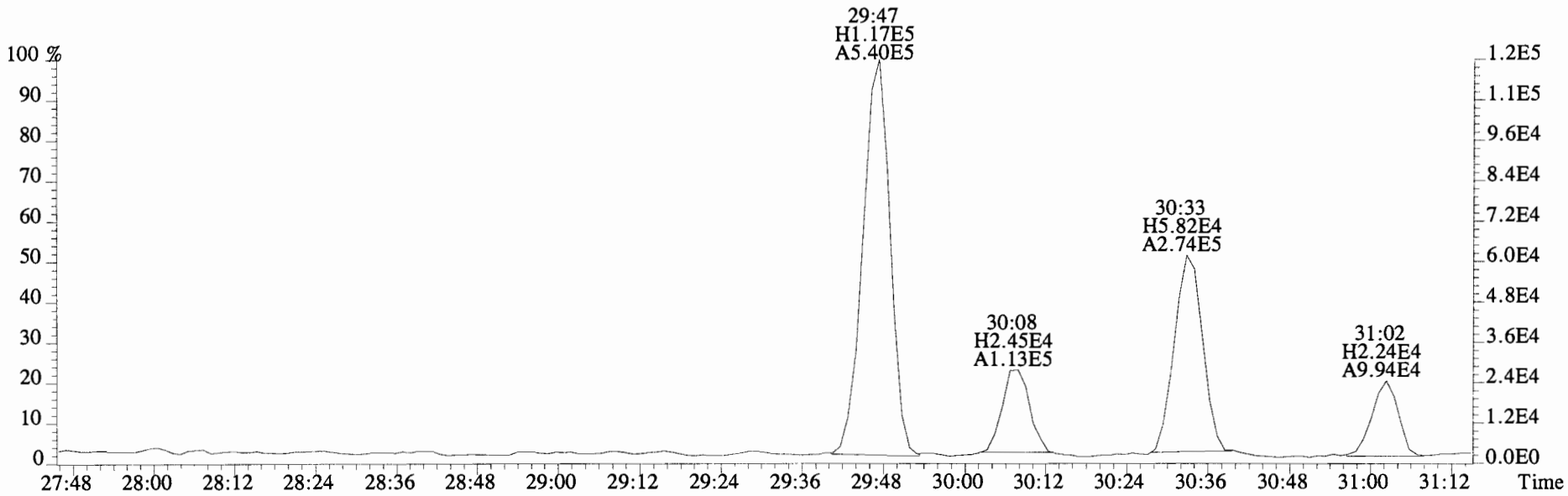


330.9792 S:7 F:3

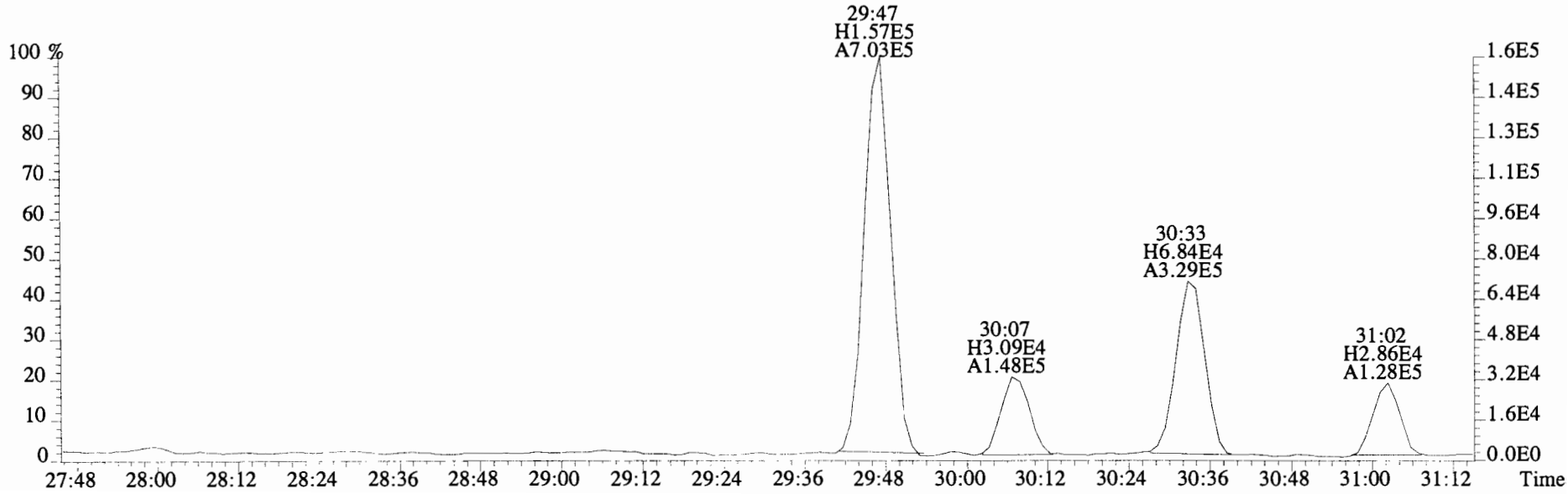



File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4000.0,0.00%,F,F)
35:29 H4.90E6 A2.41E7
35:42 H1.31E6 A6.67E6
36:43 H7.60E5 A3.82E6
37:29 H6.92E5 A3.47E6
39:04 H4.00E5 A2.03E6
39:37 H4.19E5 A3.06E6
RO
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3744.0,0.00%,F,F)
35:29 H6.66E6 A3.28E7
35:42 H1.76E6 A8.99E6
36:43 H1.03E6 A5.18E6
37:28 H8.49E5 A4.38E6
39:04 H5.05E5 A2.54E6
39:37 H6.00E5 A3.94E6
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7320.0,0.00%,F,F)
35:28 H3.37E5 A1.66E6
36:43 H3.68E5 A1.78E6
37:47 H2.87E5 A1.57E6
39:01 H2.50E5 A1.27E6
39:36 H2.39E5 A1.27E6
303.9597 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4432.0,0.00%,F,F)
35:53 H4.15E5 A2.15E6
36:43 H4.46E5 A2.31E6
37:47 H3.61E5 A1.87E6
39:01 H3.41E5 A1.80E6
39:36 H3.15E5 A1.76E6
330.9792 S:7 F:3
34:11 34:46 34:58 35:11 35:28 35:42 36:01 36:25 36:59 37:40 38:04 38:28 38:44 39:01 39:29 40:00 40:11
100 %
50
0
34:00 35:00 36:00 37:00 38:00 39:00 40:00 Time
4.9E6 2.5E6 0.0E0
6.7E6 3.3E6 0.0E0
3.7E5 1.9E5 0.0E0
4.5E5 2.2E5 0.0E0
1.1E7 5.5E6 0.0E0

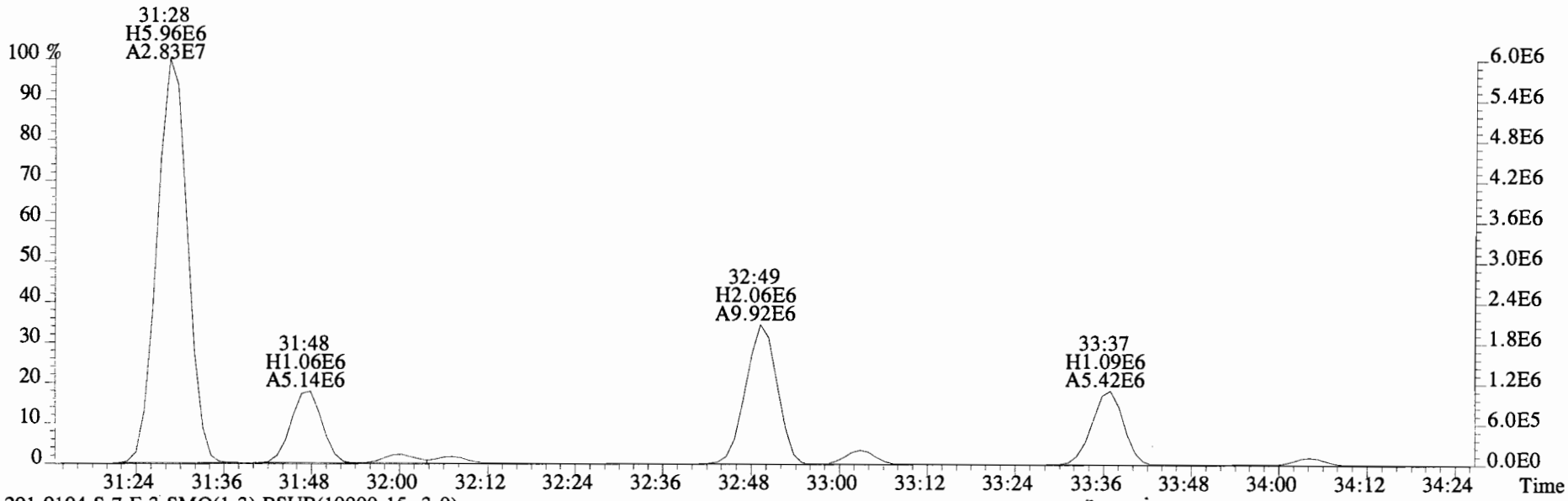
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



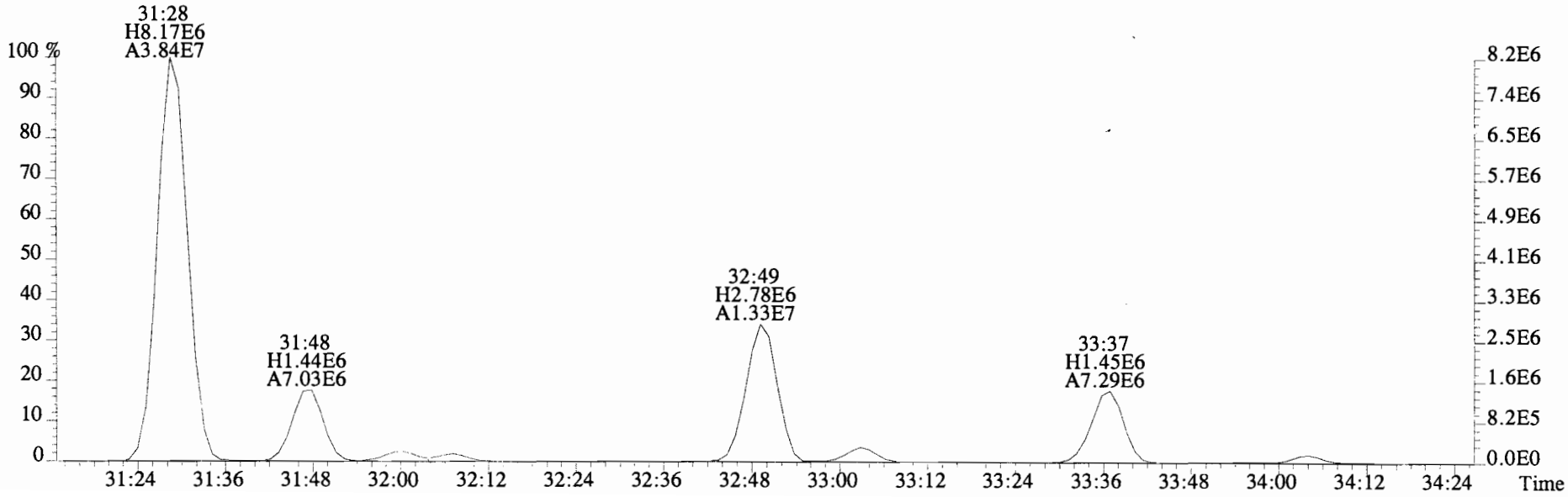
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



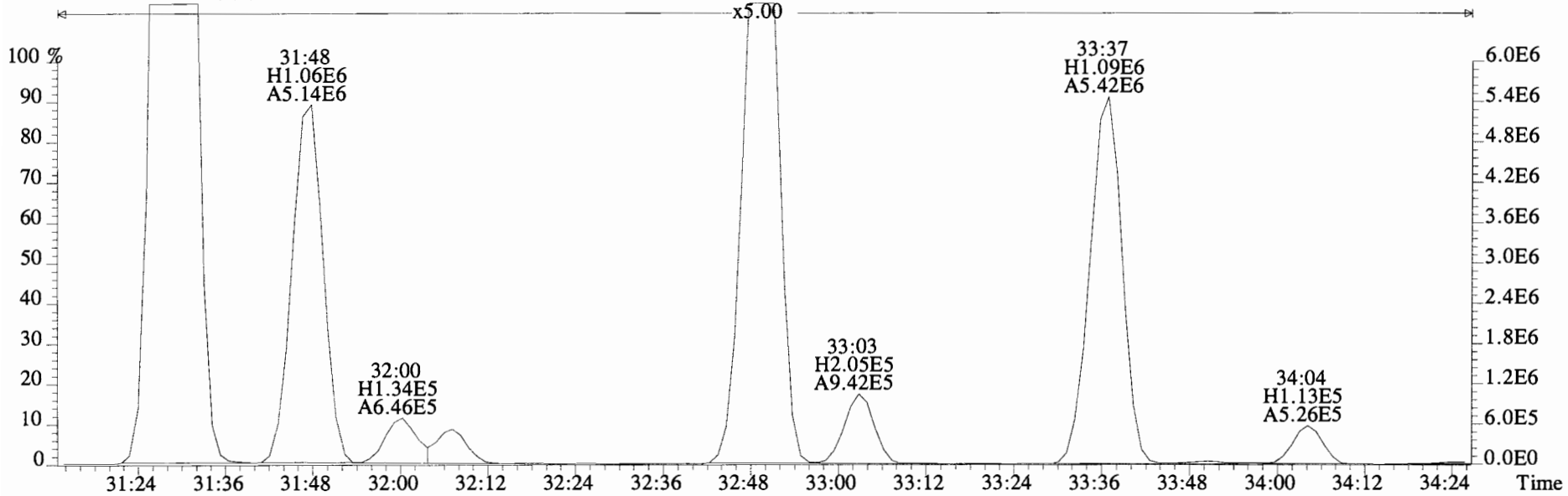
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



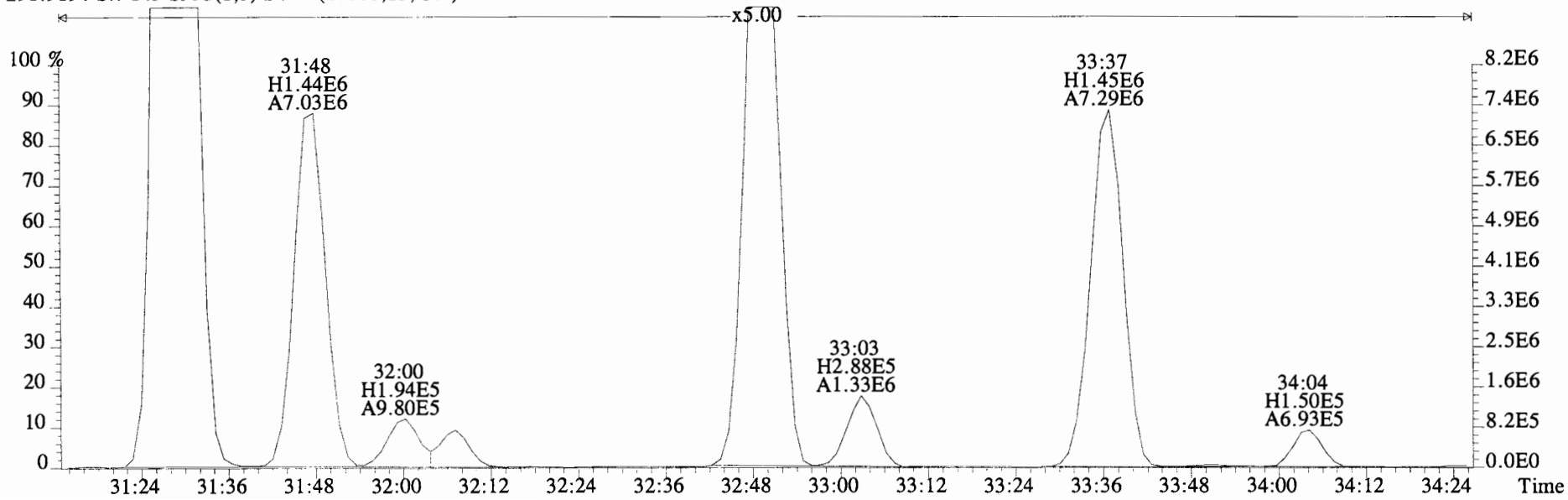
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



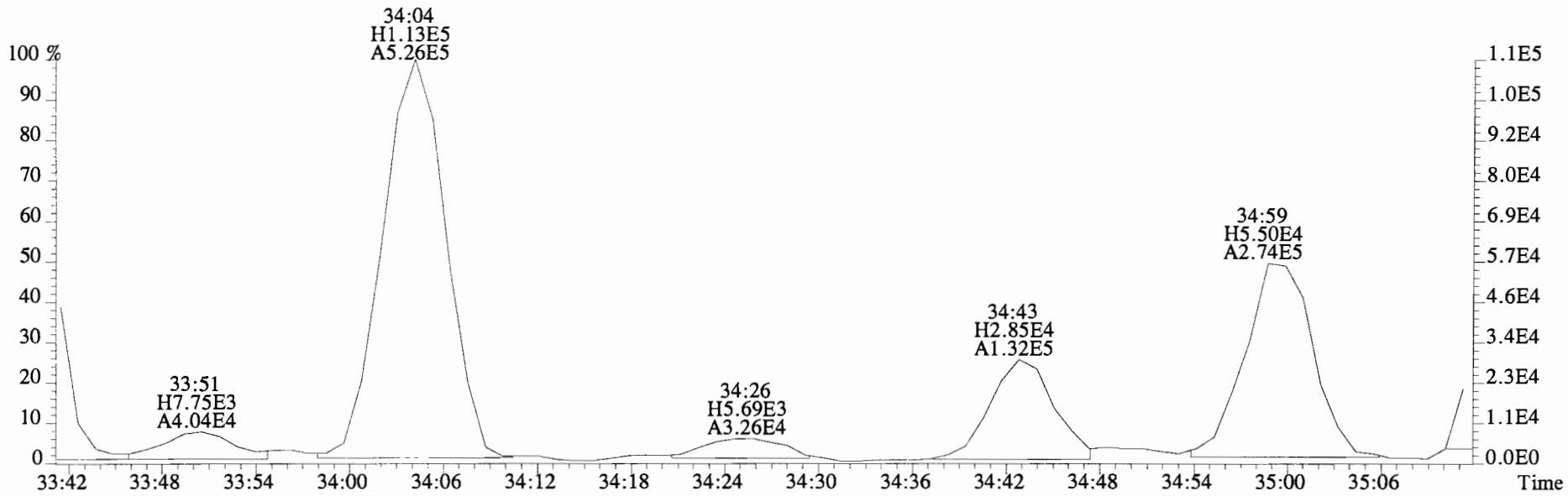
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



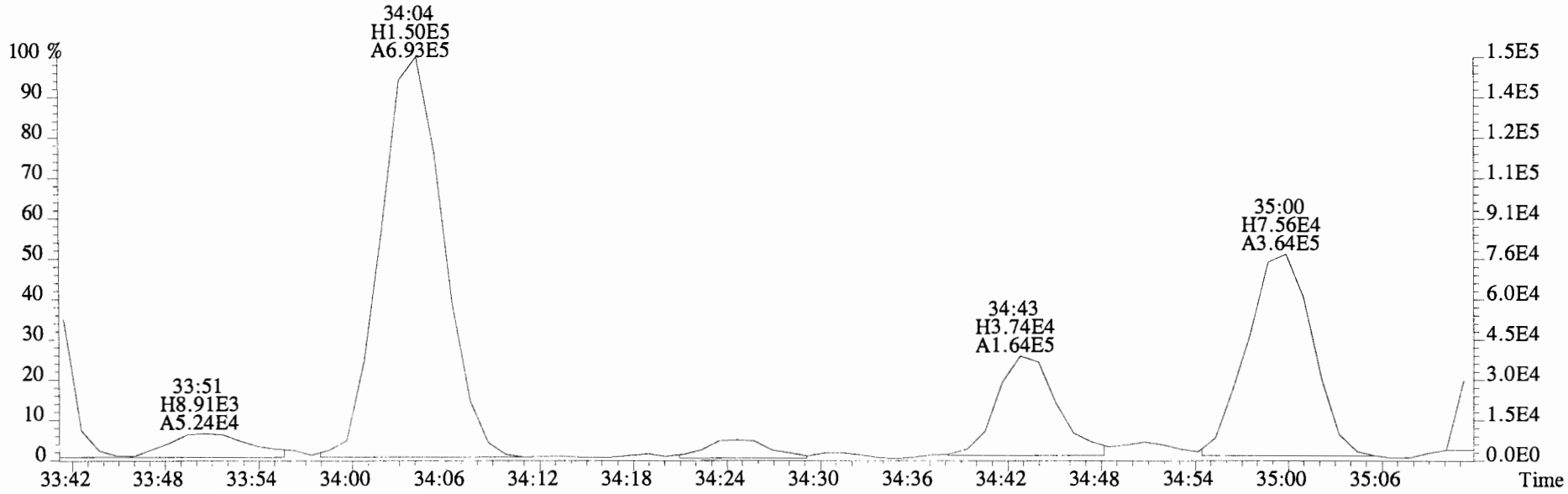
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



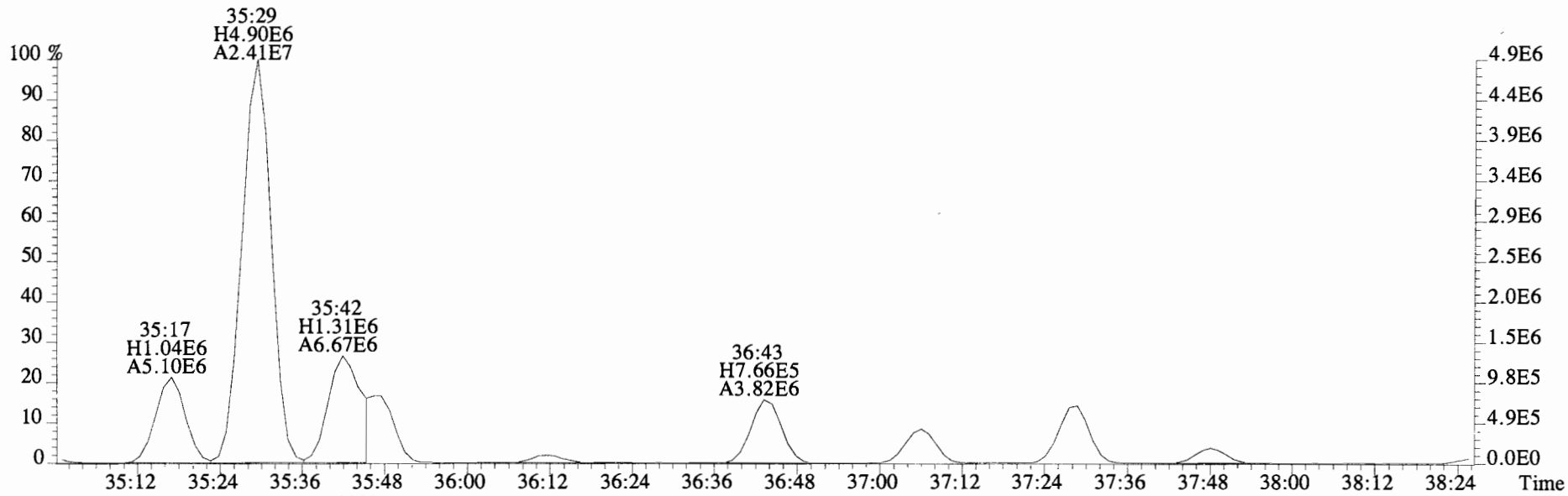
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



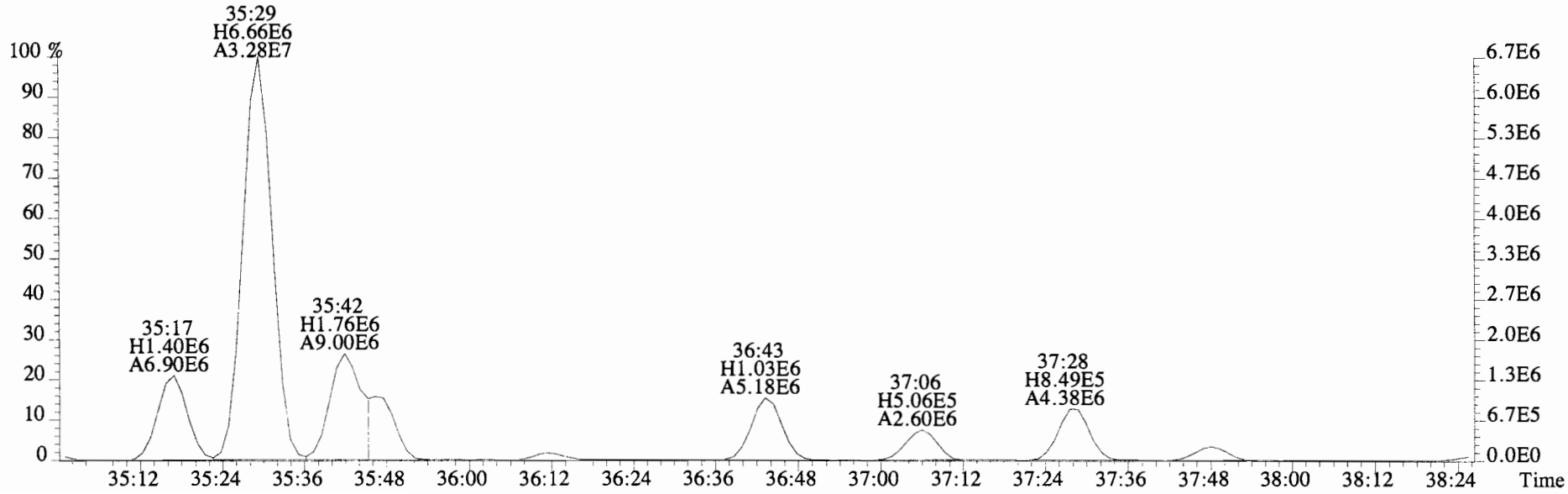
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



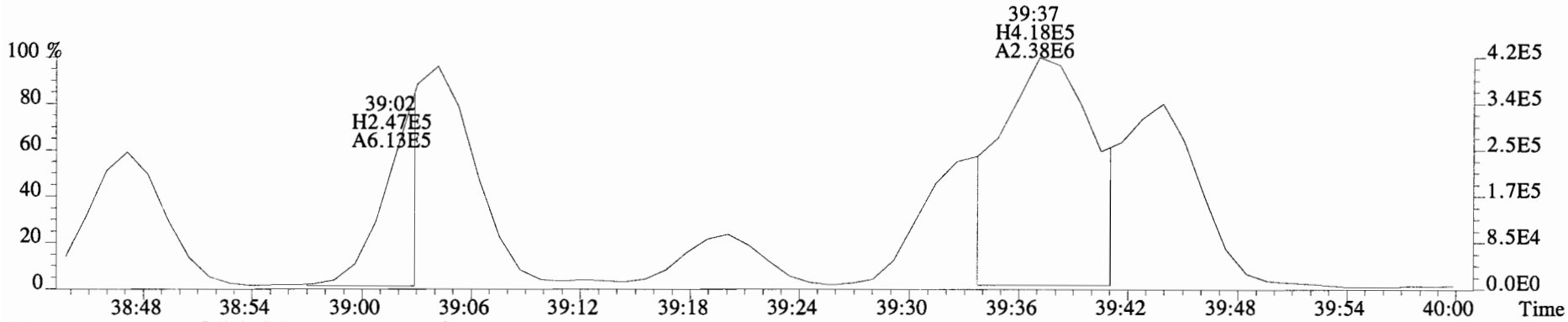
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



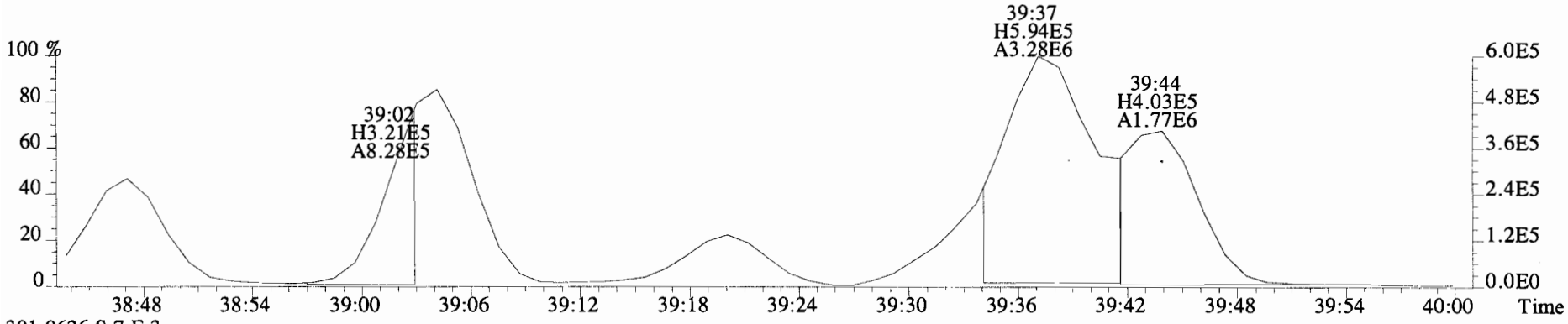
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



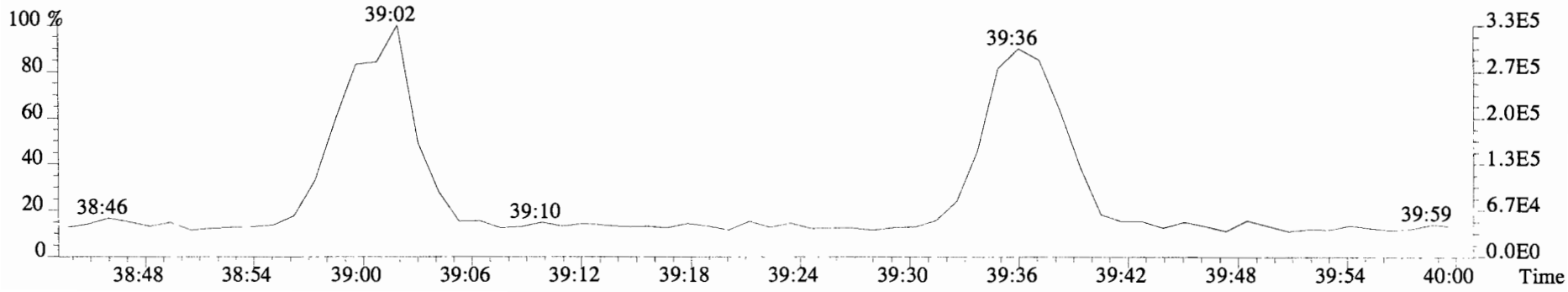
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



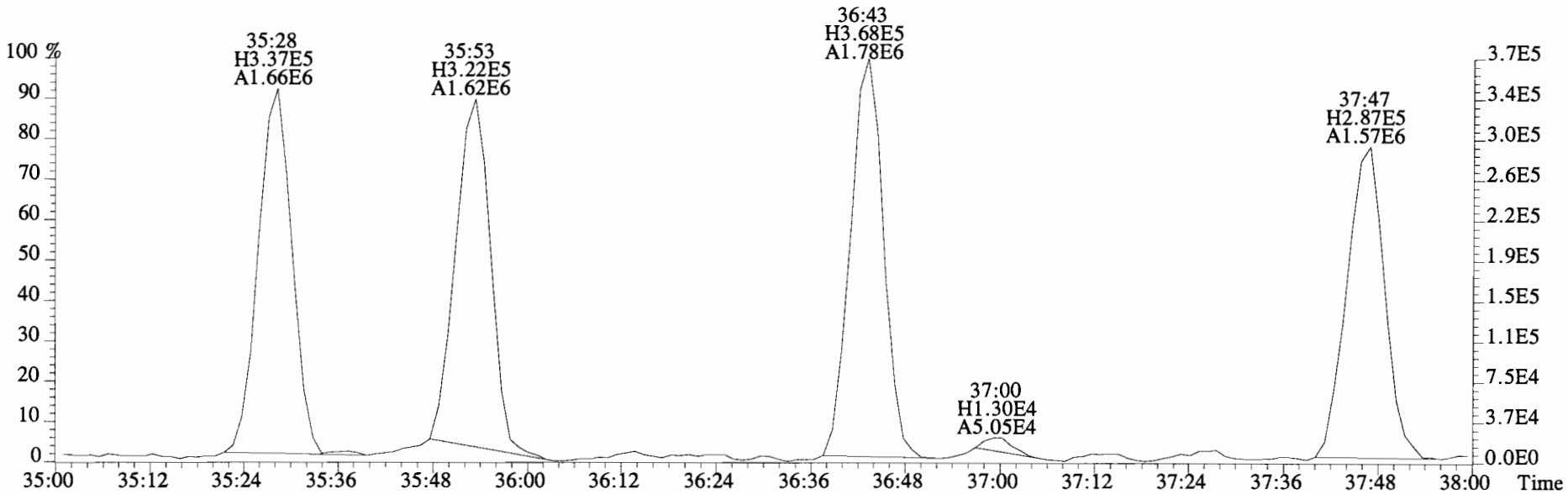
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



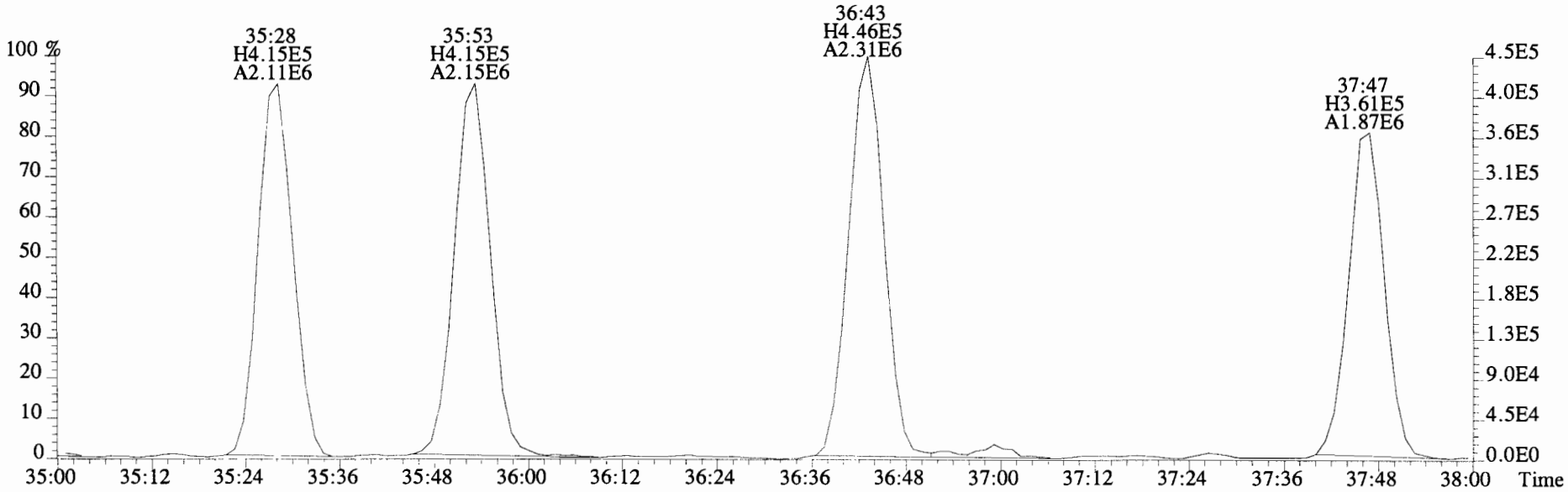
301.9626 S:7 F:3



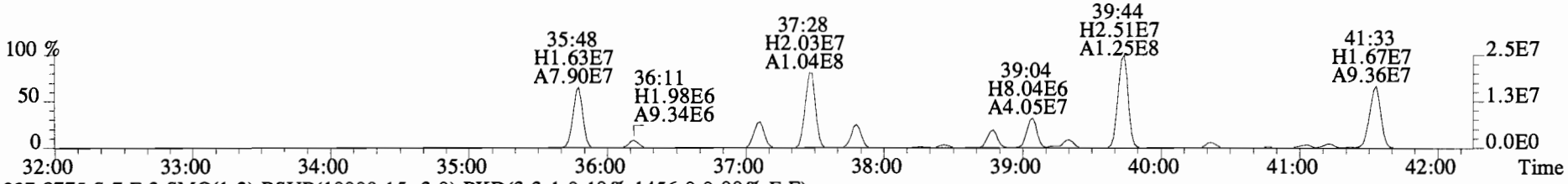
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7320.0,0.00%,F,F)



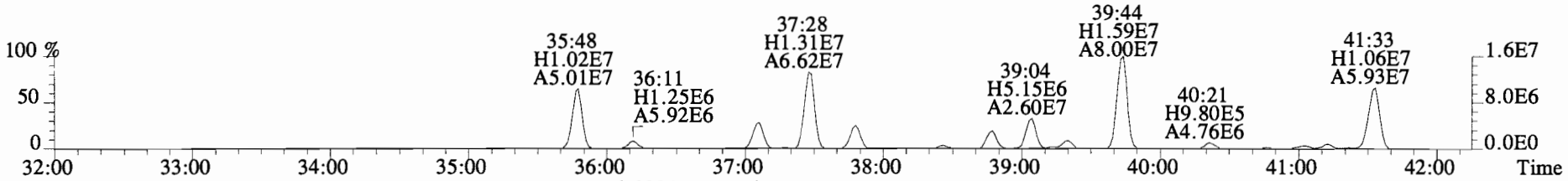
303.9597 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4432.0,0.00%,F,F)



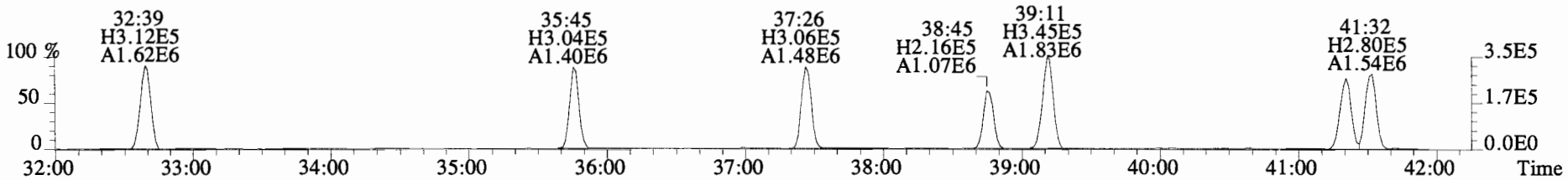
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1428.0,0.00%,F,F)



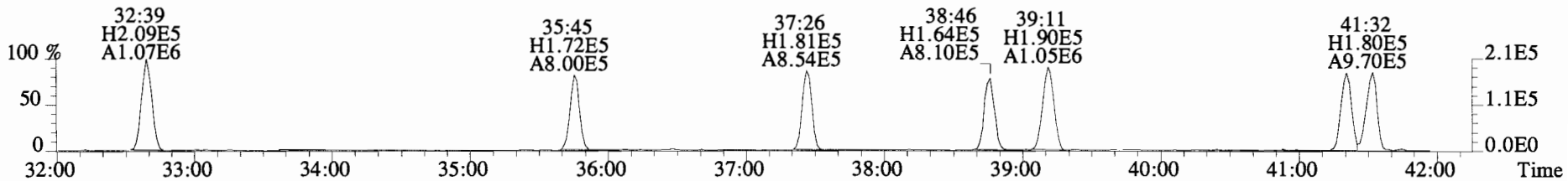
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1456.0,0.00%,F,F)



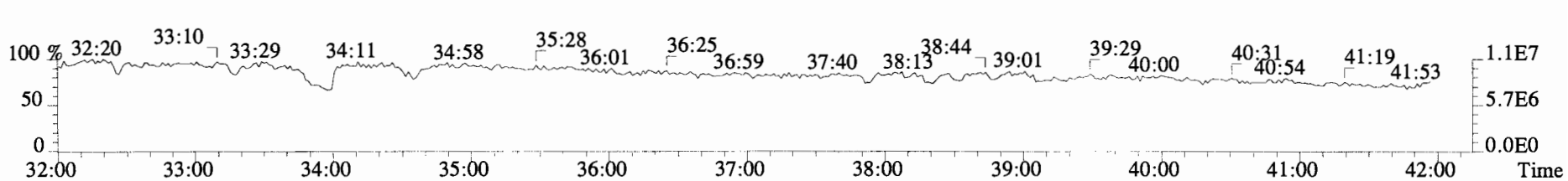
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2084.0,0.00%,F,F)



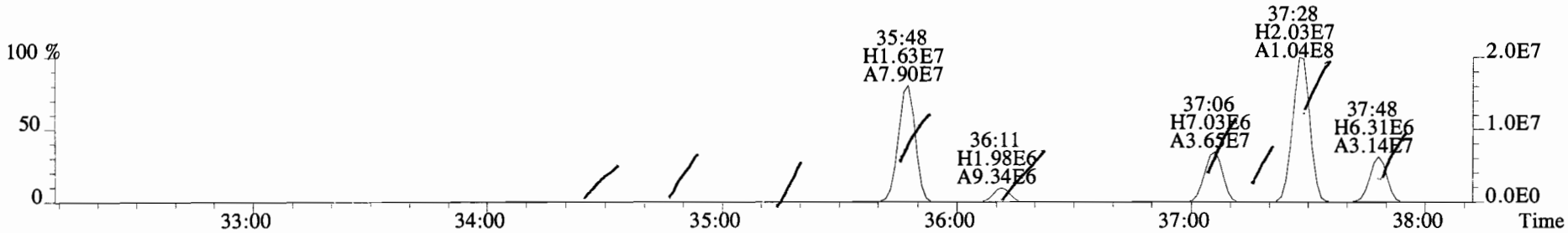
339.9177 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1992.0,0.00%,F,F)



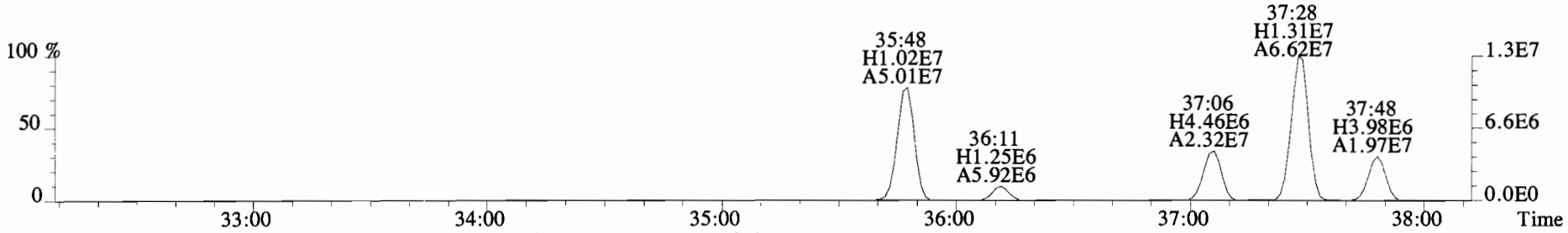
330.9792 S:7 F:3



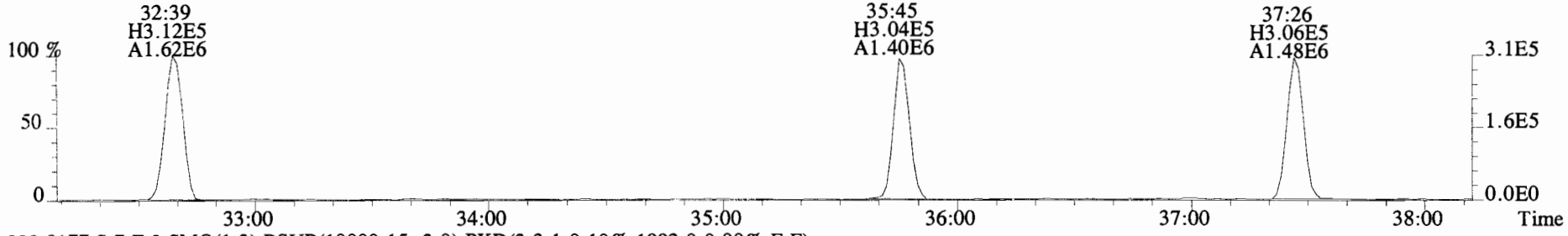
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1428.0,0.00%,F,F)



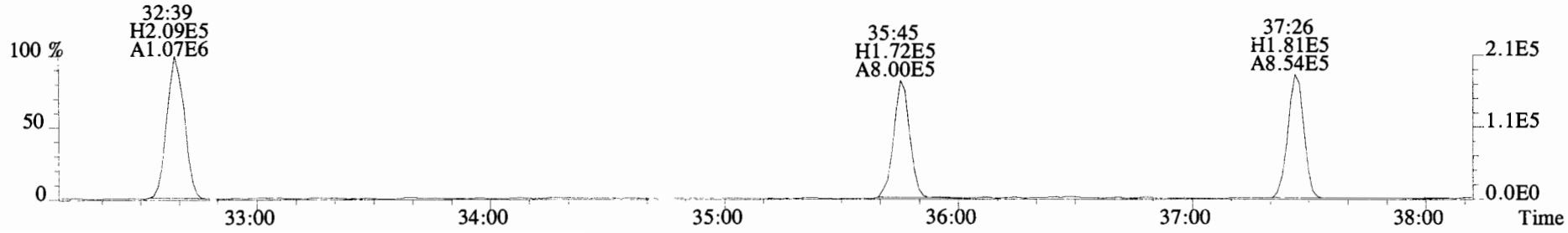
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1456.0,0.00%,F,F)



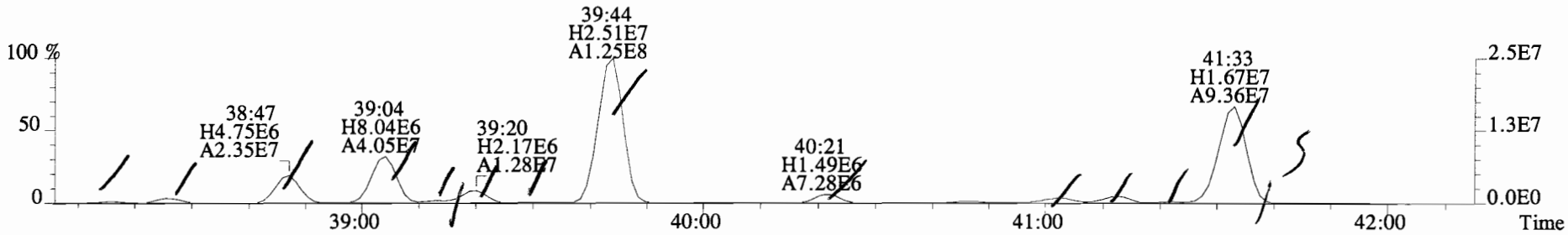
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2084.0,0.00%,F,F)



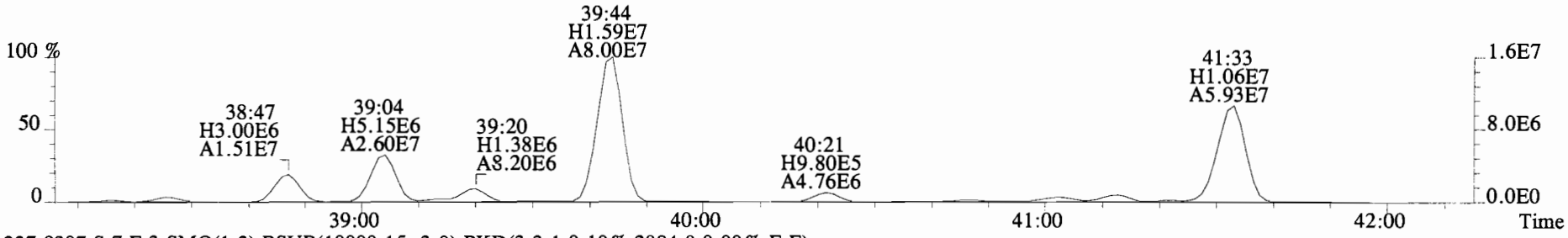
339.9177 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1992.0,0.00%,F,F)



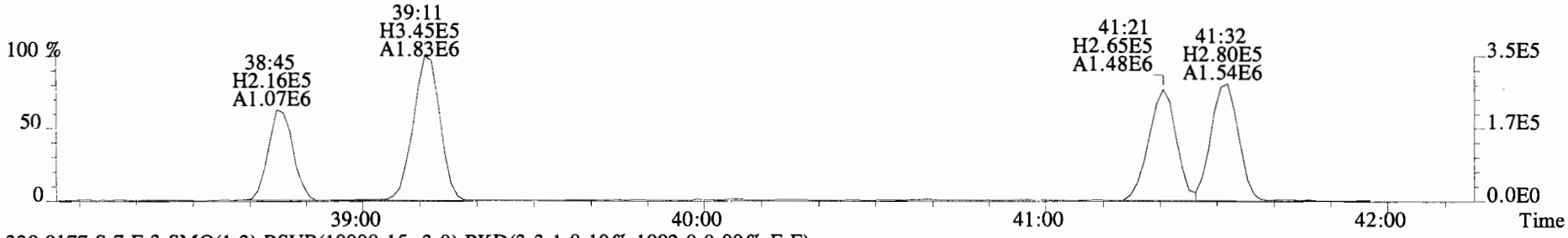
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1428.0,0.00%,F,F)



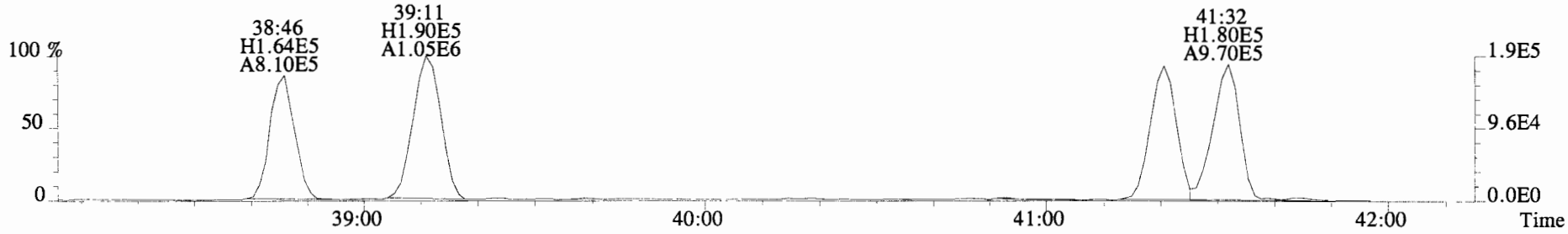
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1456.0,0.00%,F,F)



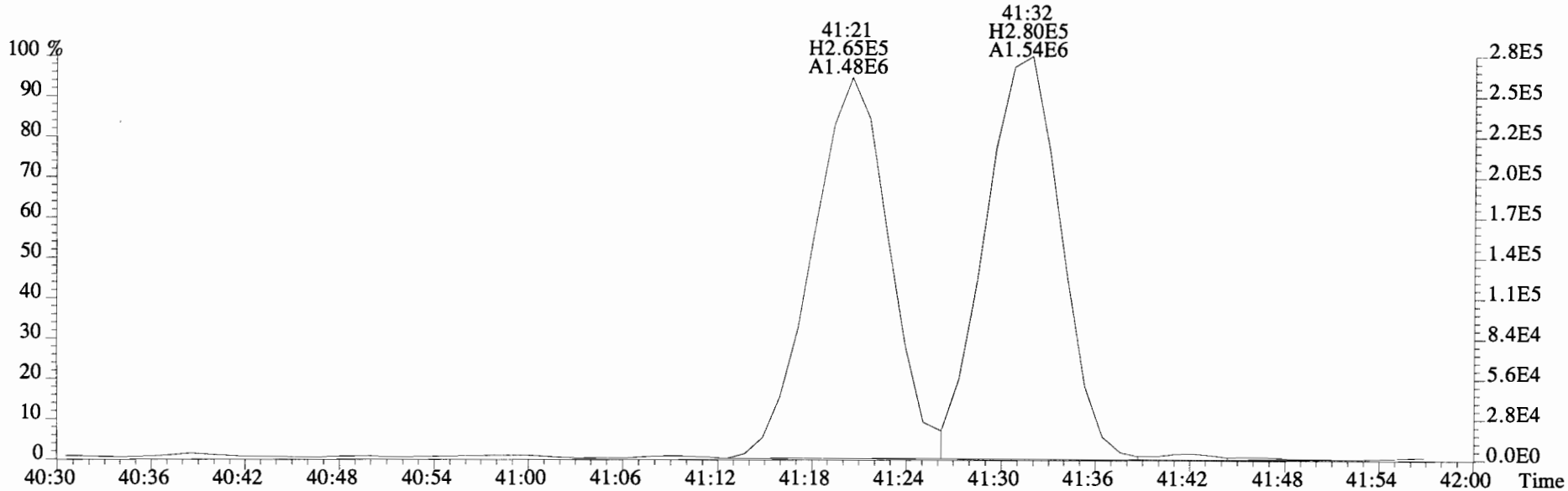
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2084.0,0.00%,F,F)



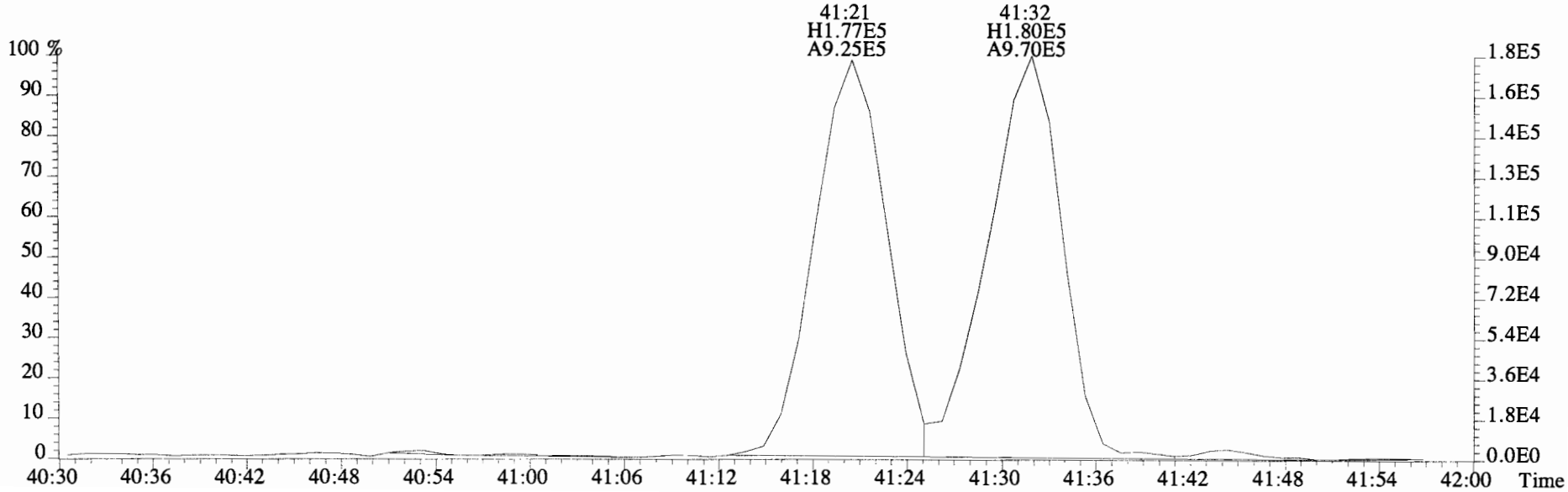
339.9177 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1992.0,0.00%,F,F)



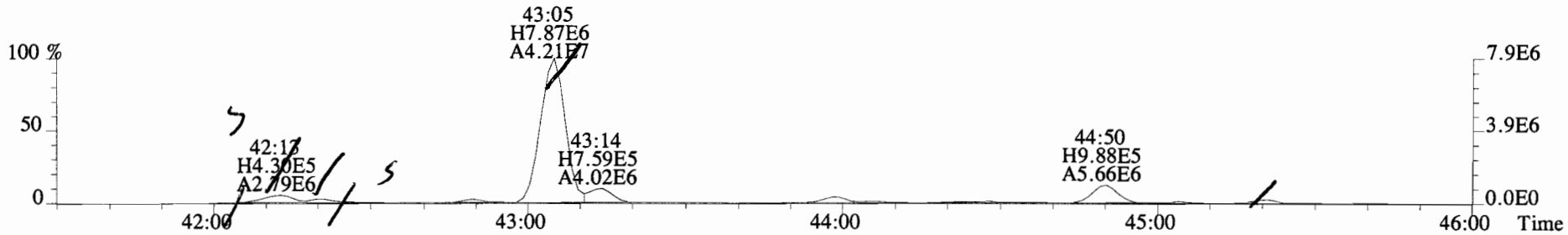
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2084.0,0.00%,F,F)



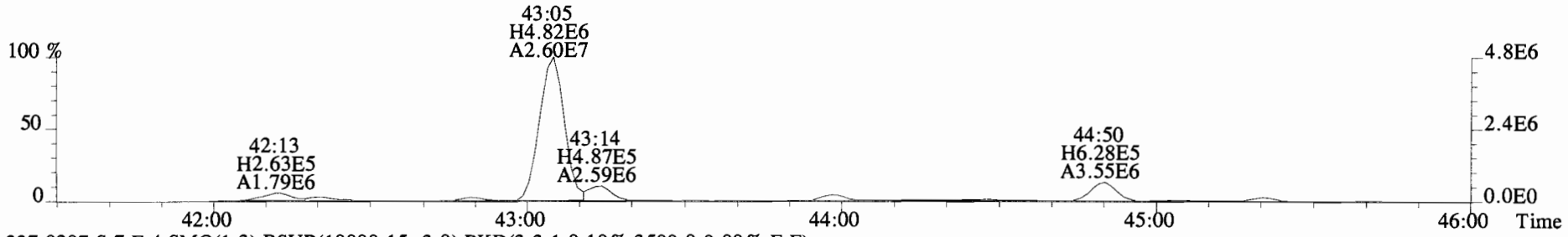
339.9177 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1992.0,0.00%,F,F)



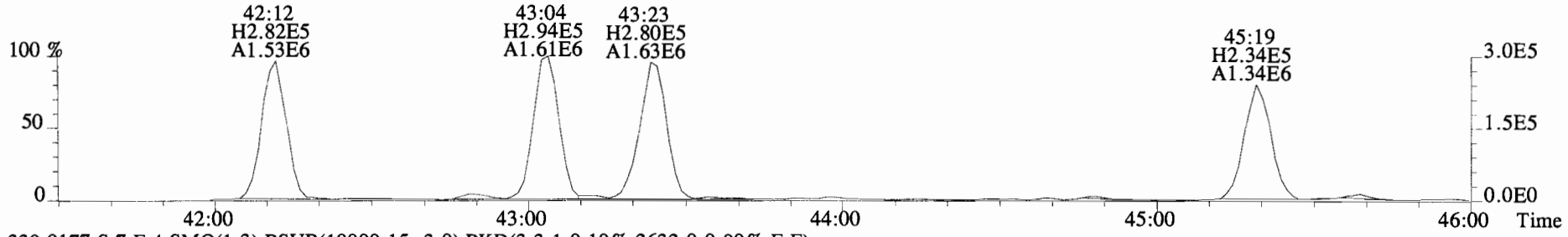
File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
325.8804 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17040.0,0.00%,F,F)



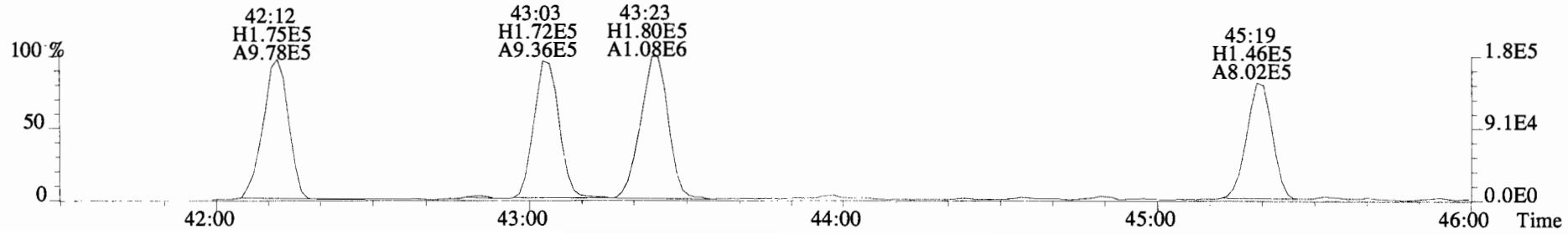
327.8775 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9488.0,0.00%,F,F)



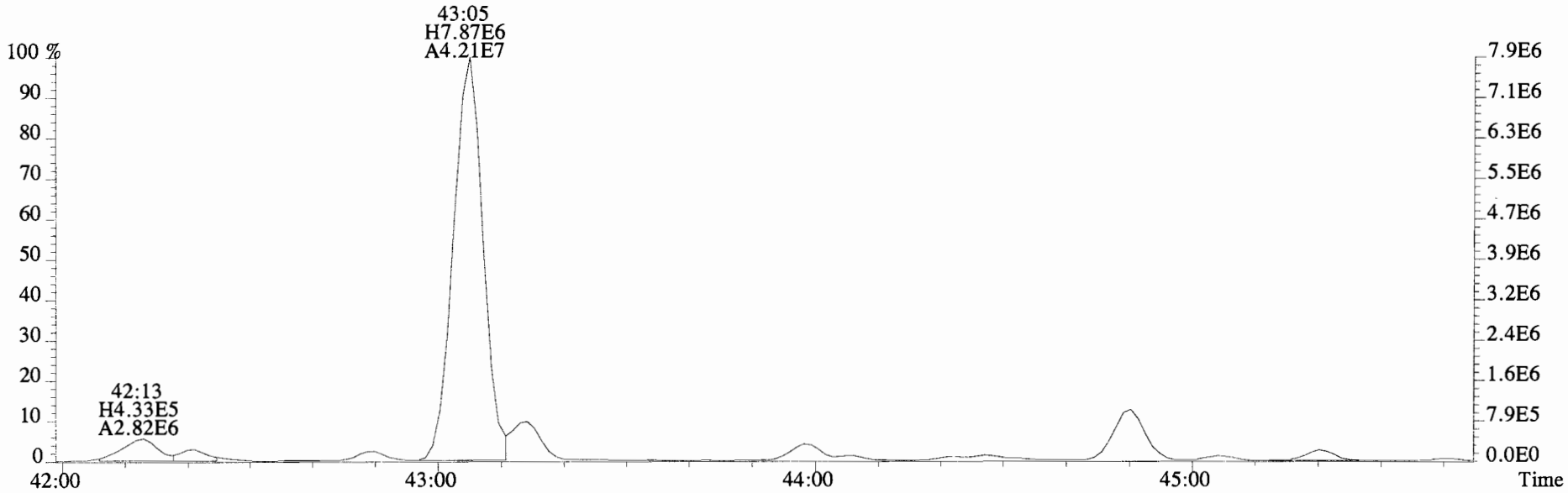
337.9207 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3500.0,0.00%,F,F)



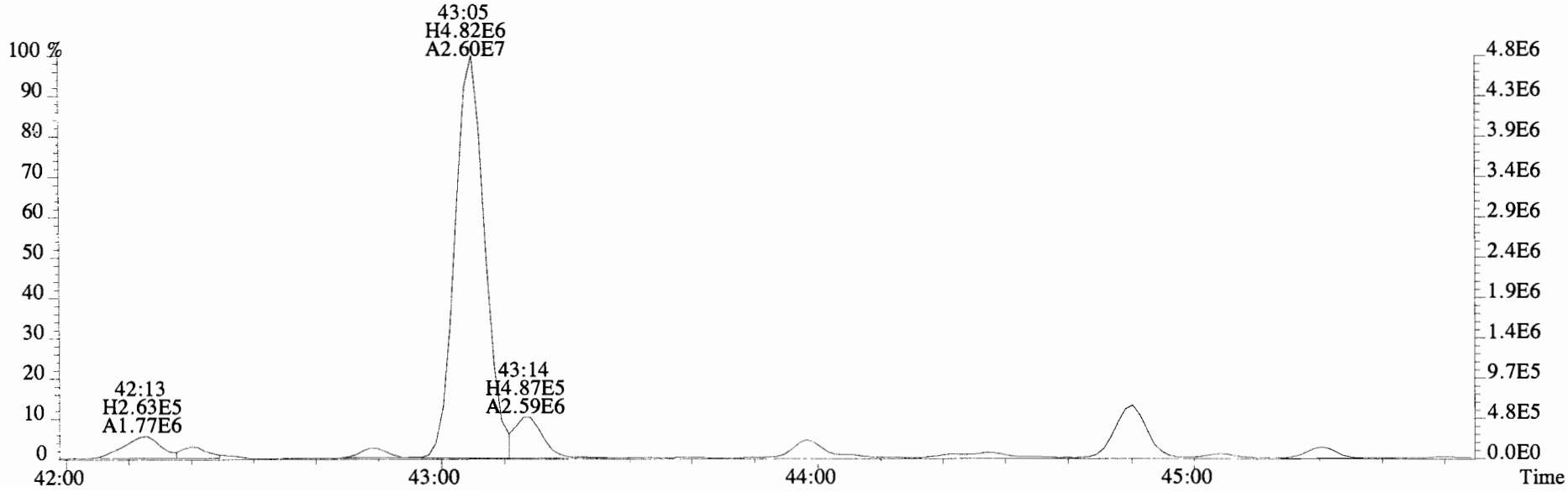
339.9177 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2632.0,0.00%,F,F)



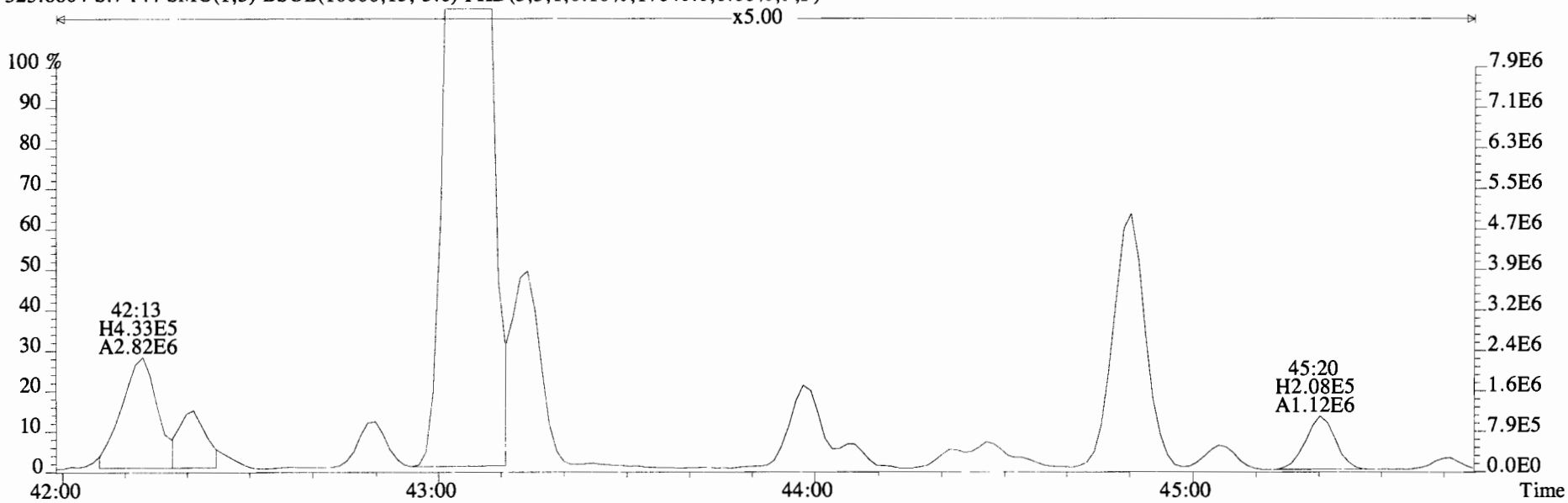
File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
325.8804 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17040.0,0.00%,F,F)



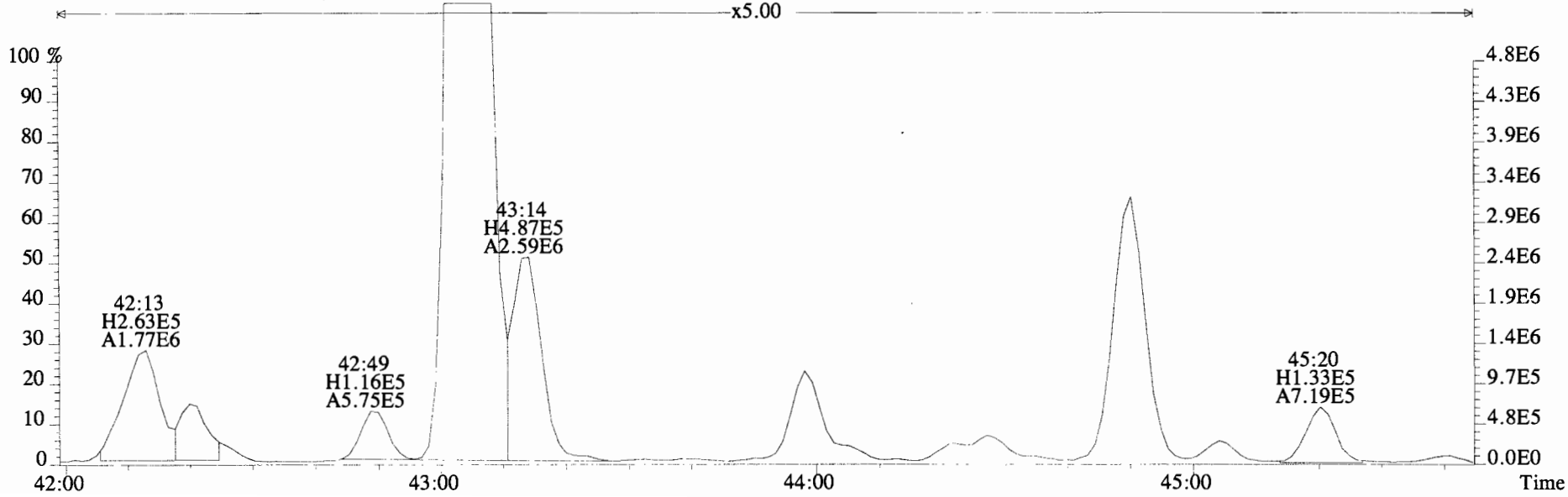
327.8775 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9488.0,0.00%,F,F)



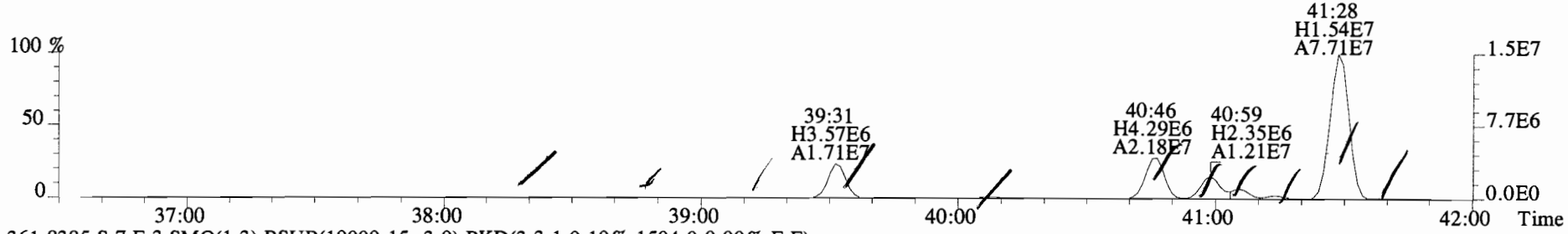
File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
325.8804 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17040.0,0.00%,F,F)



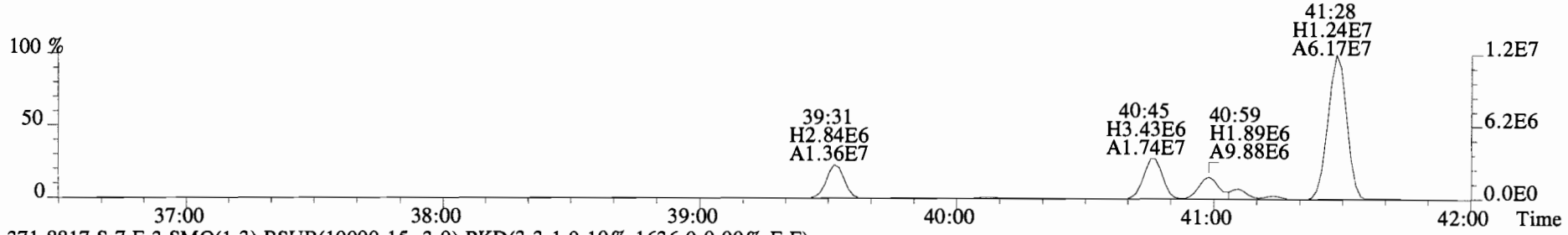
327.8775 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9488.0,0.00%,F,F)



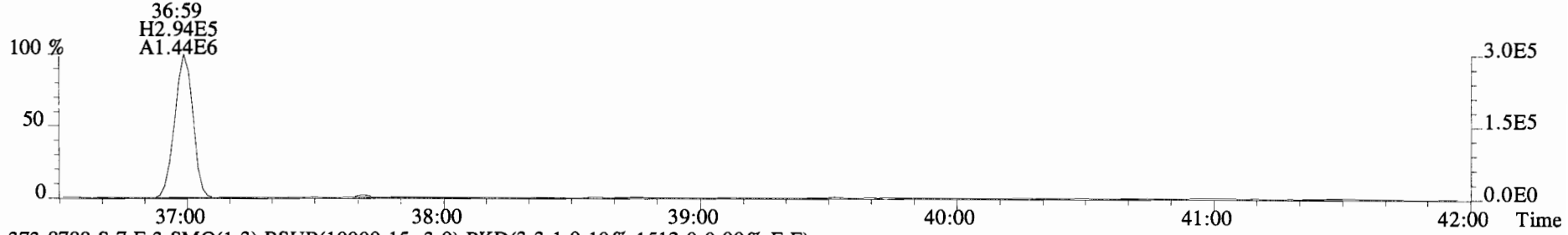
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1496.0,0.00%,F,F)



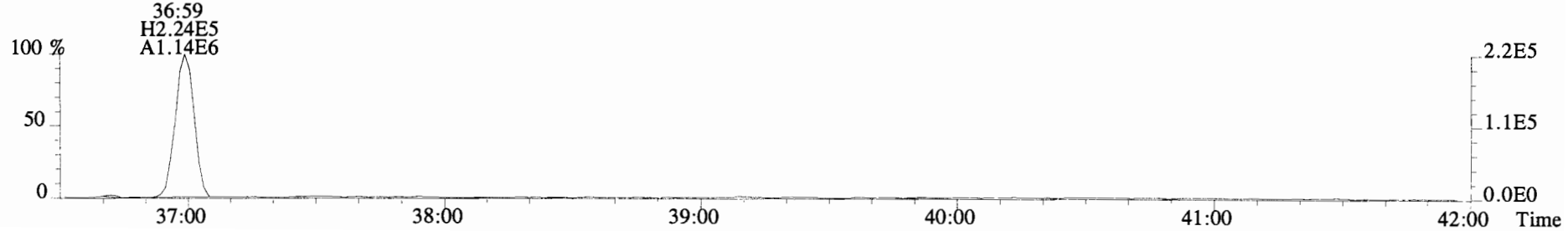
361.8385 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1504.0,0.00%,F,F)



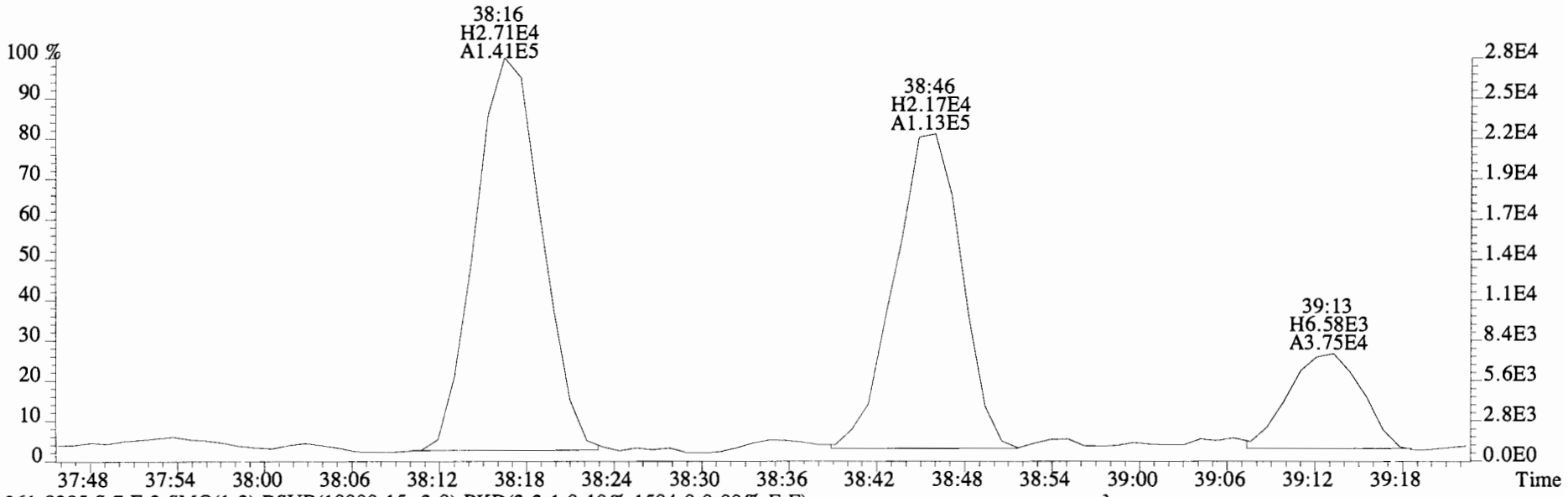
371.8817 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1636.0,0.00%,F,F)



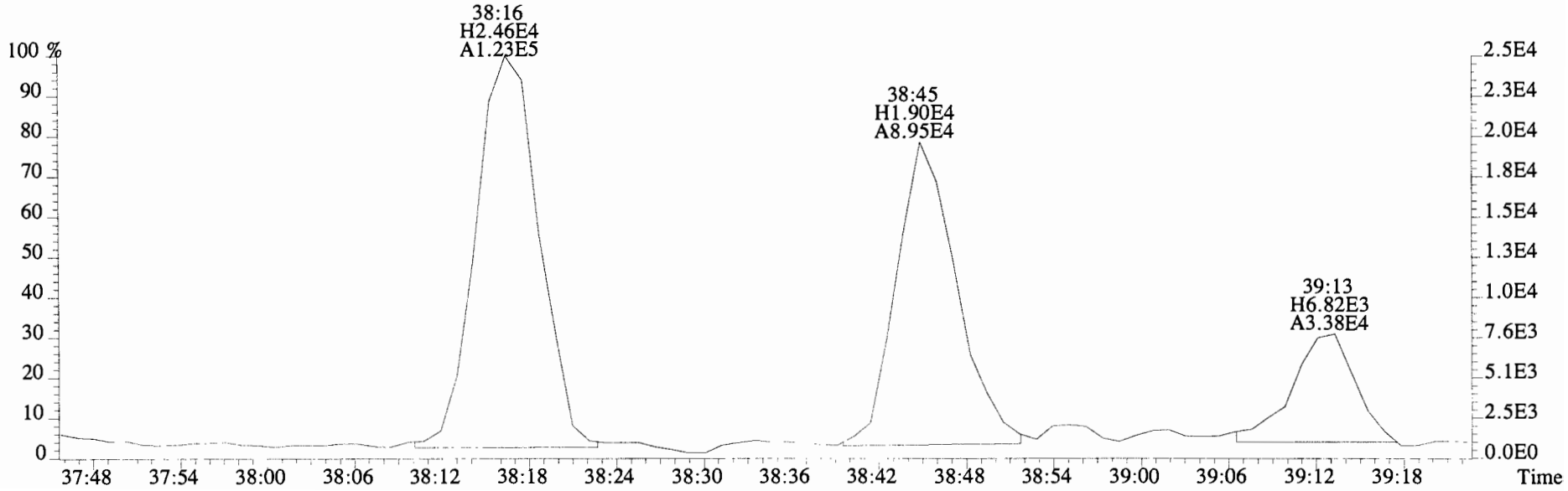
373.8788 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1512.0,0.00%,F,F)



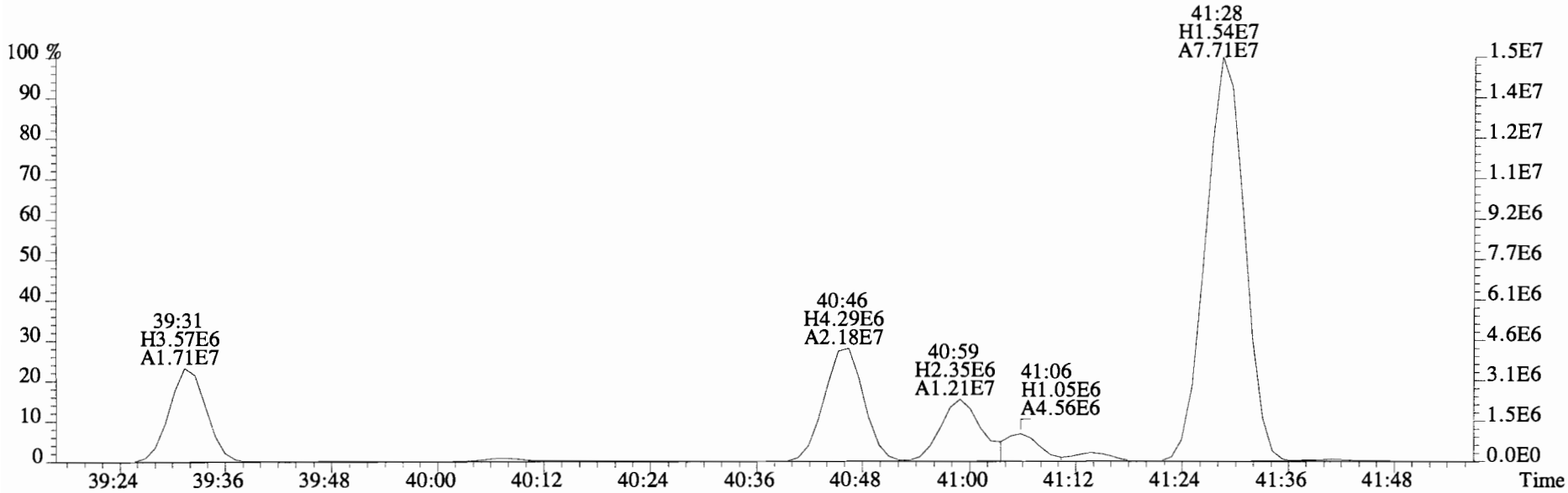
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1496.0,0.00%,F,F)



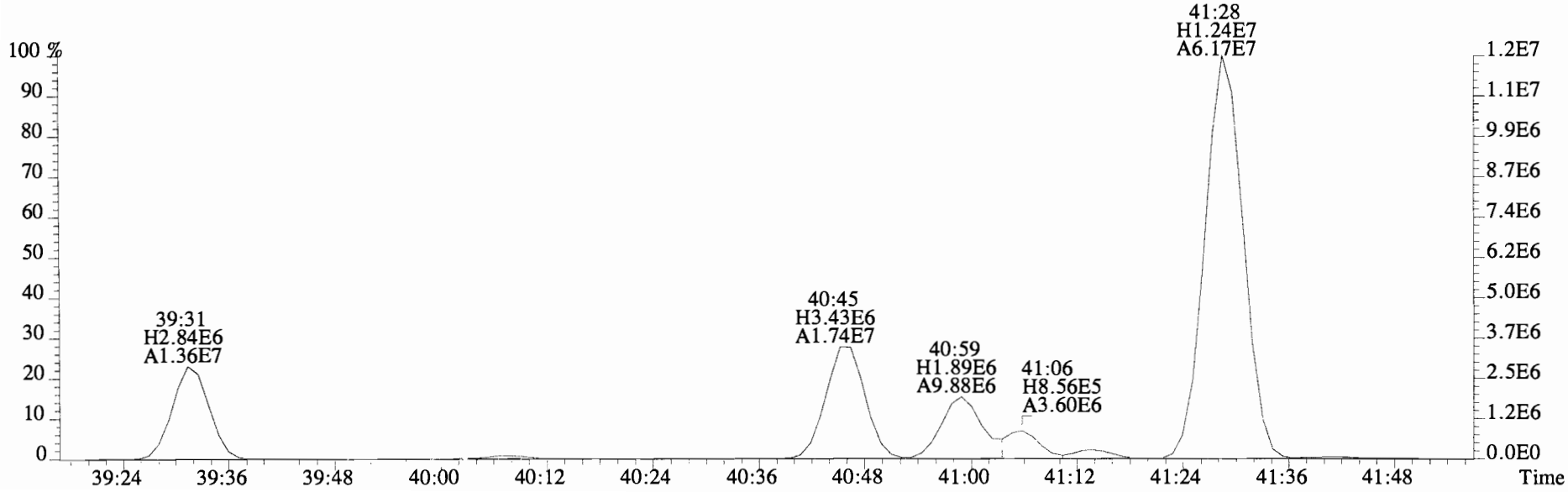
361.8385 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1504.0,0.00%,F,F)



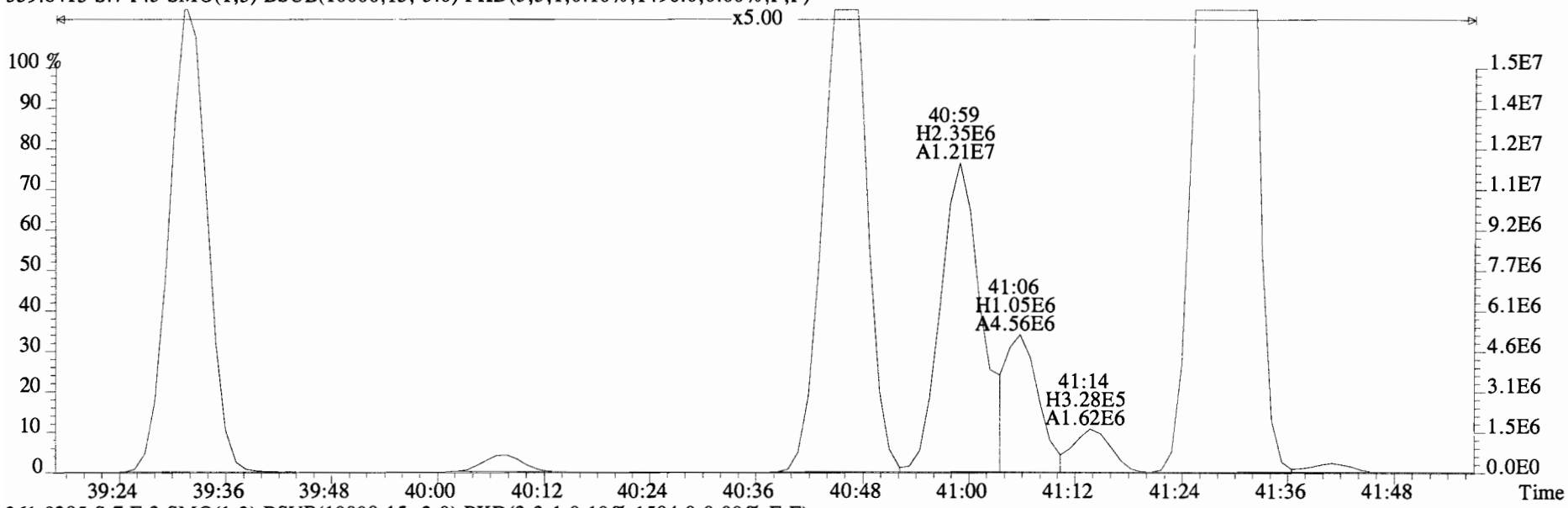
File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1496.0,0.00%,F,F)



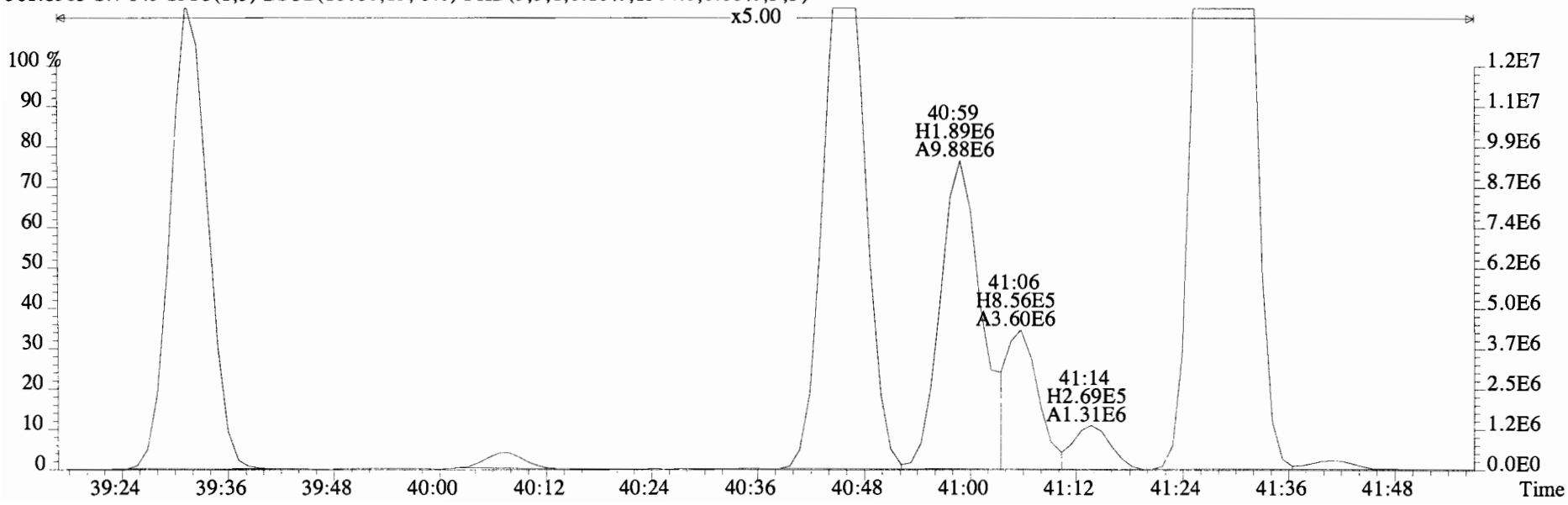
361.8385 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1504.0,0.00%,F,F)

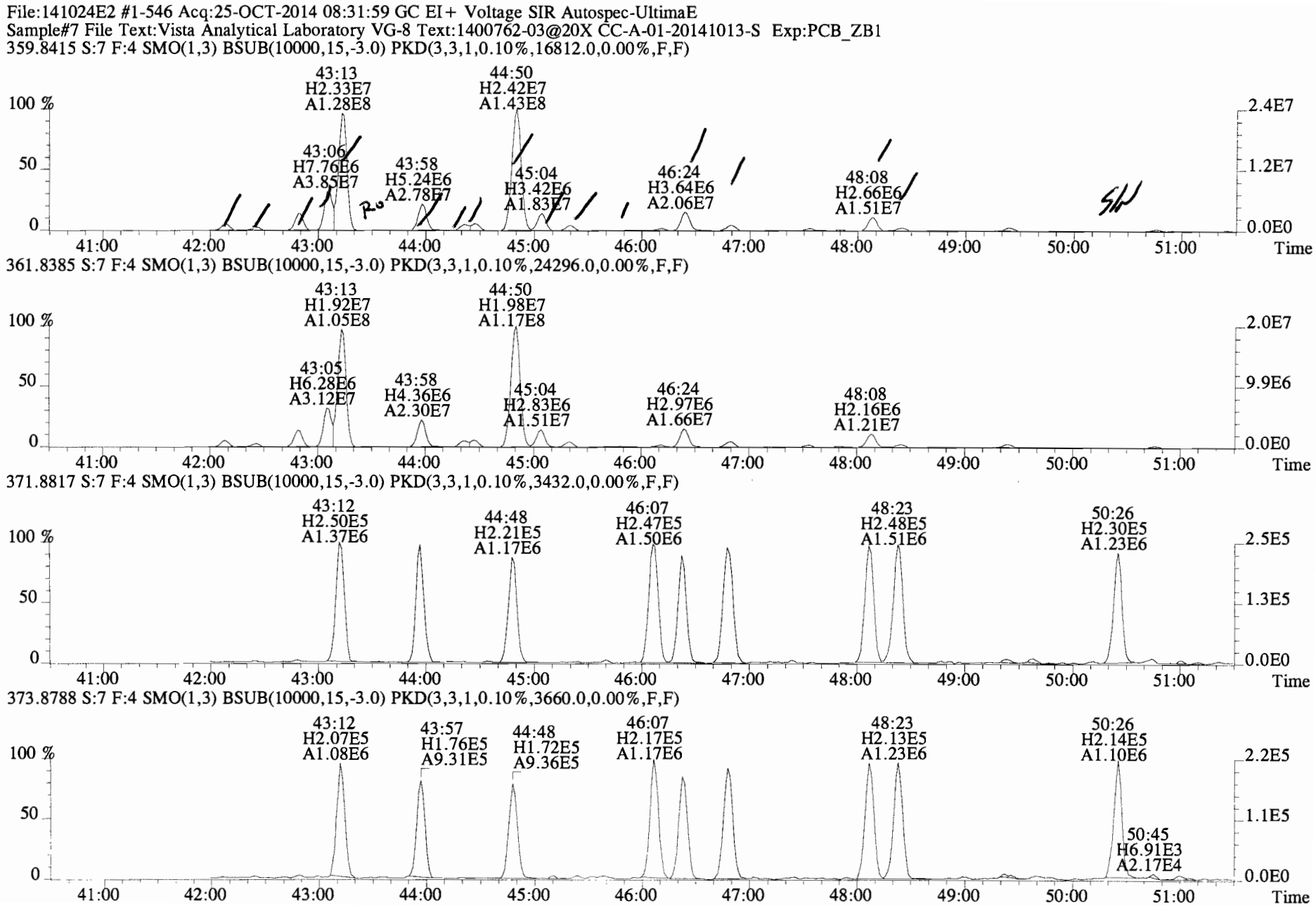


File:141024E2 #1-762 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1496.0,0.00%,F,F)

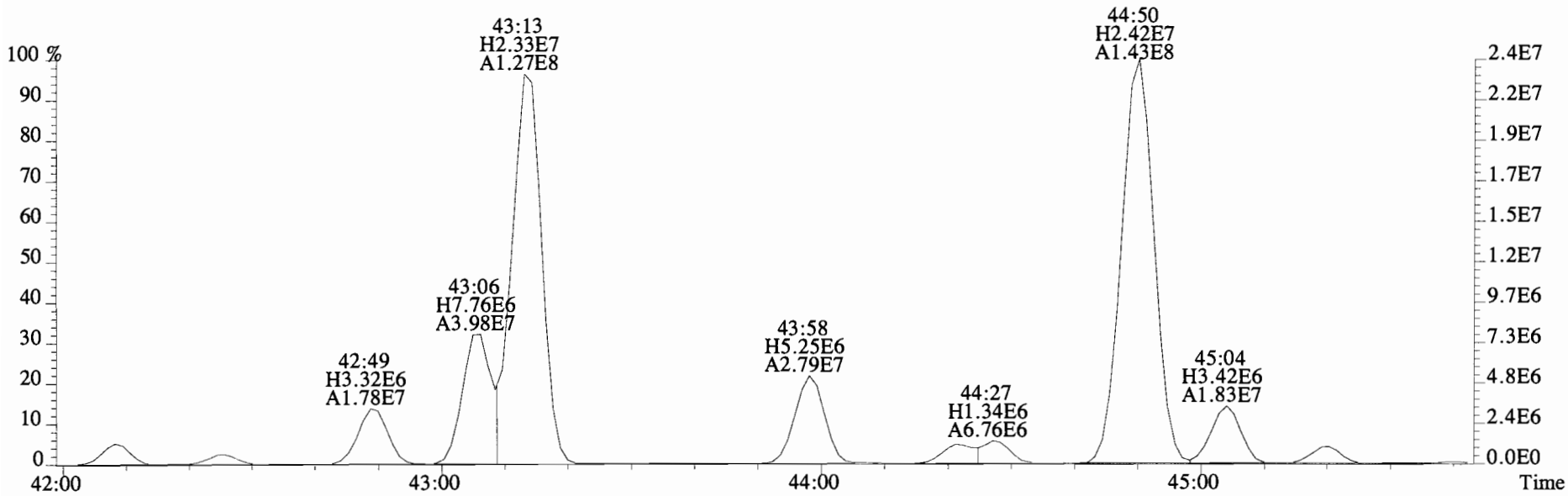


361.8385 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1504.0,0.00%,F,F)

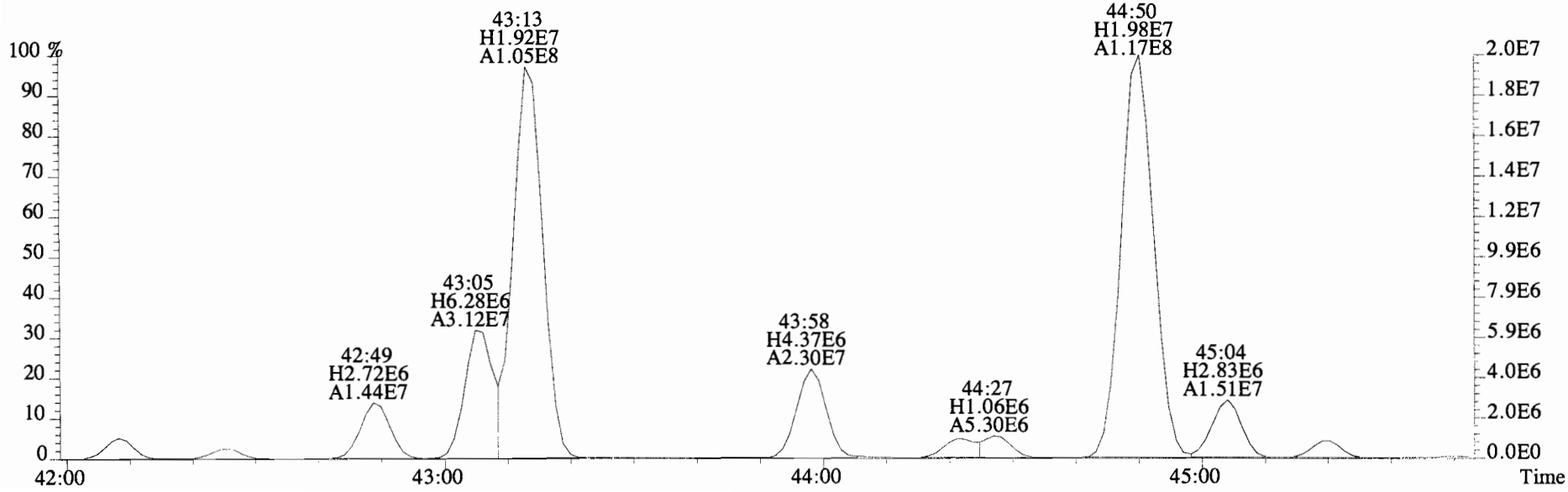


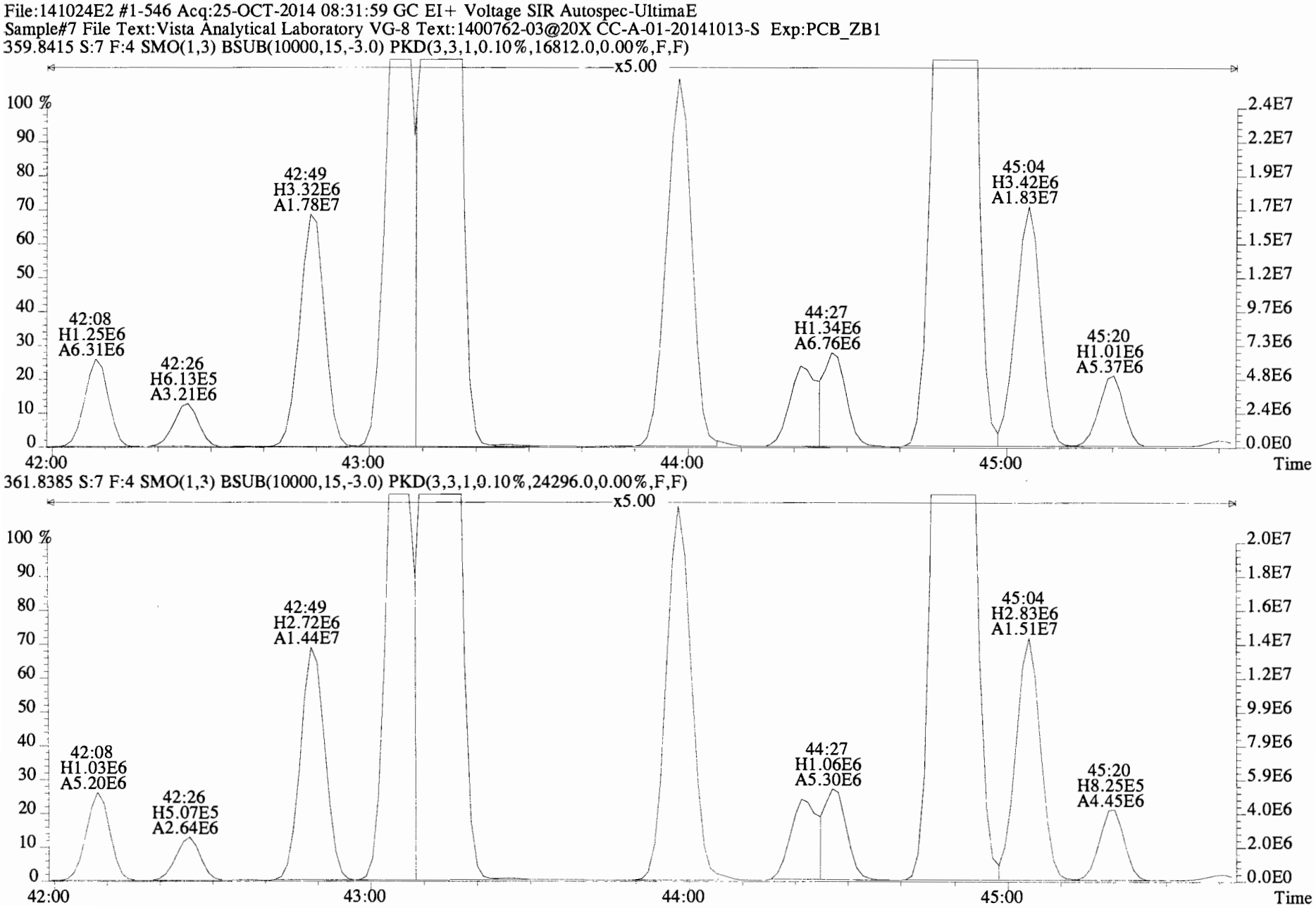

File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16812.0,0.00%,F,F)
43:13 H2.33E7 A1.28E8
44:50 H2.42E7 A1.43E8
43:06 H7.76E6 A3.85E7
43:58 H5.24E6 A2.78E7
45:04 H3.42E6 A1.83E7
46:24 H3.64E6 A2.06E7
48:08 H2.66E6 A1.51E7
361.8385 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24296.0,0.00%,F,F)
43:13 H1.92E7 A1.05E8
44:50 H1.98E7 A1.17E8
43:05 H6.28E6 A3.12E7
43:58 H4.36E6 A2.30E7
45:04 H2.83E6 A1.51E7
46:24 H2.97E6 A1.66E7
48:08 H2.16E6 A1.21E7
371.8817 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3432.0,0.00%,F,F)
43:12 H2.50E5 A1.37E6
44:48 H2.21E5 A1.17E6
46:07 H2.47E5 A1.50E6
48:23 H2.48E5 A1.51E6
50:26 H2.30E5 A1.23E6
373.8788 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3660.0,0.00%,F,F)
43:12 H2.07E5 A1.08E6
43:57 H1.76E5 A9.31E5
44:48 H1.72E5 A9.36E5
46:07 H2.17E5 A1.17E6
48:23 H2.13E5 A1.23E6
50:26 H2.14E5 A1.10E6
50:45 H6.91E3 A2.17E4
100 %
50
0
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
51:00
Time
2.4E7
1.2E7
0.0E0
2.0E7
9.9E6
2.5E5
1.3E5
2.2E5
1.1E5

File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16812.0,0.00%,F,F)

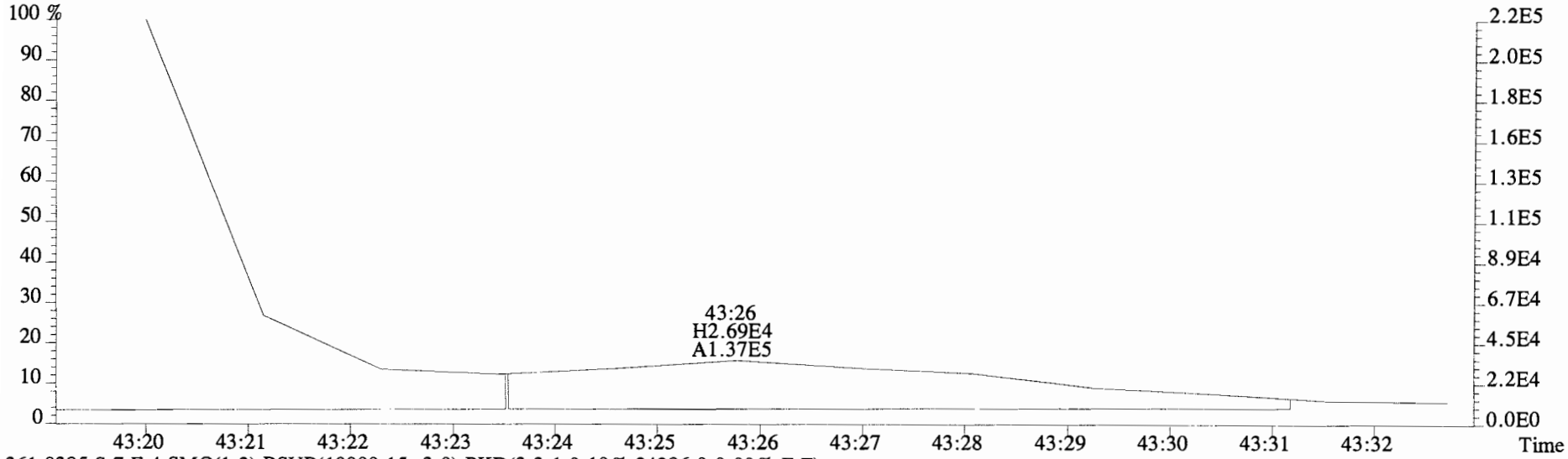


361.8385 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24296.0,0.00%,F,F)

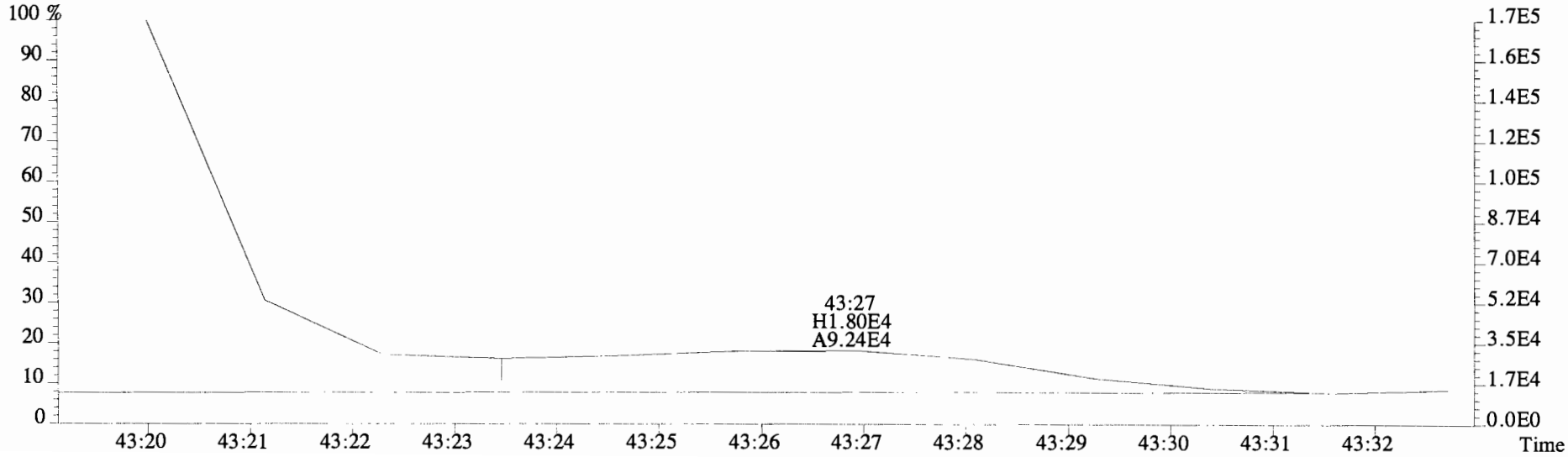



File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16812.0,0.00%,F,F)
x5.00
100 %
90
80
70
60
50
40
30
20
10
0
2.4E7
2.2E7
1.9E7
1.7E7
1.5E7
1.2E7
9.7E6
7.3E6
4.8E6
2.4E6
0.0E0
42:08
H1.25E6
A6.31E6
42:26
H6.13E5
A3.21E6
42:49
H3.32E6
A1.78E7
44:27
H1.34E6
A6.76E6
45:04
H3.42E6
A1.83E7
45:20
H1.01E6
A5.37E6
42:00
43:00
44:00
45:00
Time
361.8385 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24296.0,0.00%,F,F)
x5.00
100 %
90
80
70
60
50
40
30
20
10
0
2.0E7
1.8E7
1.6E7
1.4E7
1.2E7
9.9E6
7.9E6
5.9E6
4.0E6
2.0E6
0.0E0
42:08
H1.03E6
A5.20E6
42:26
H5.07E5
A2.64E6
42:49
H2.72E6
A1.44E7
44:27
H1.06E6
A5.30E6
45:04
H2.83E6
A1.51E7
45:20
H8.25E5
A4.45E6
42:00
43:00
44:00
45:00
Time

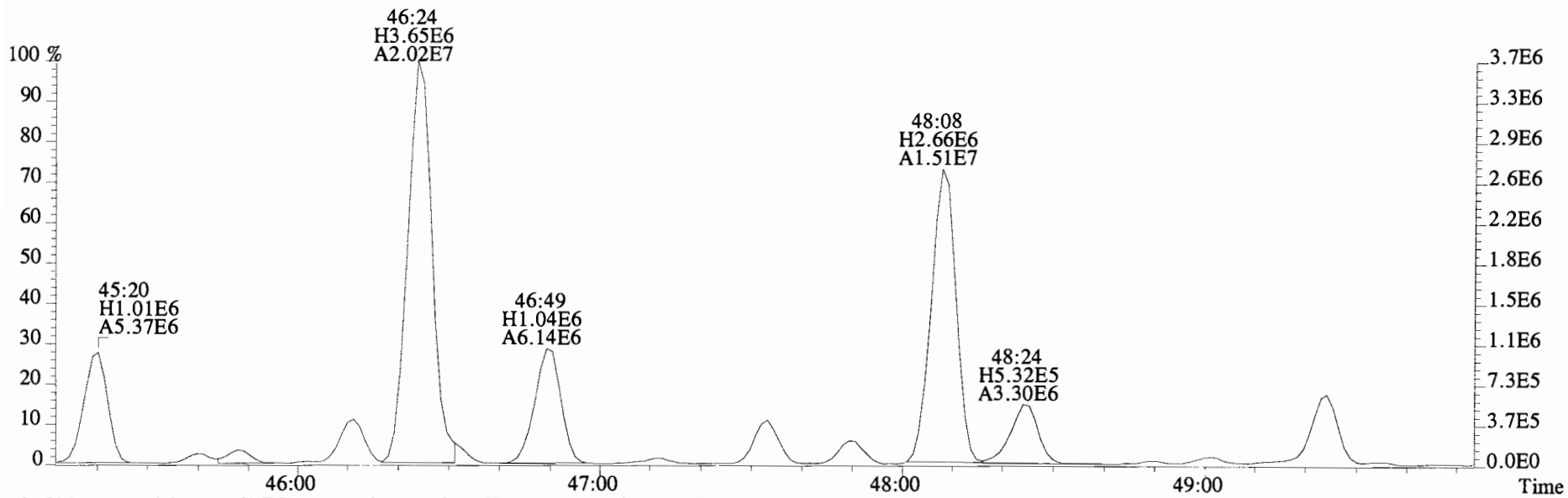
File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16812.0,0.00%,F,F)



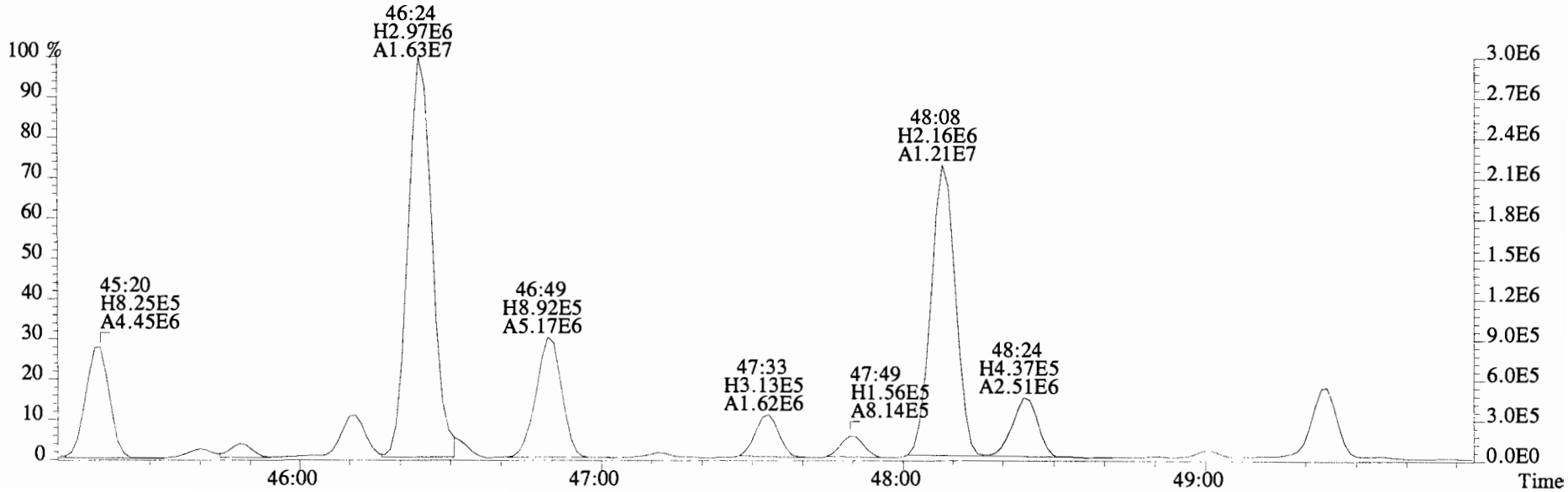
361.8385 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24296.0,0.00%,F,F)



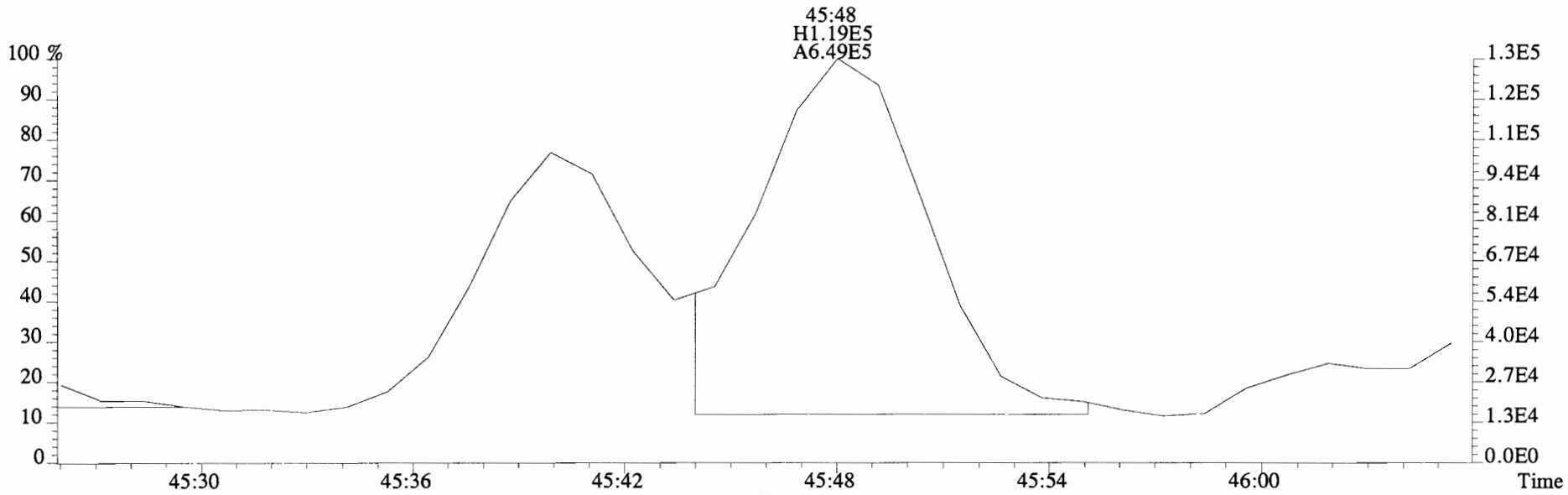
File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16812.0,0.00%,F,F)



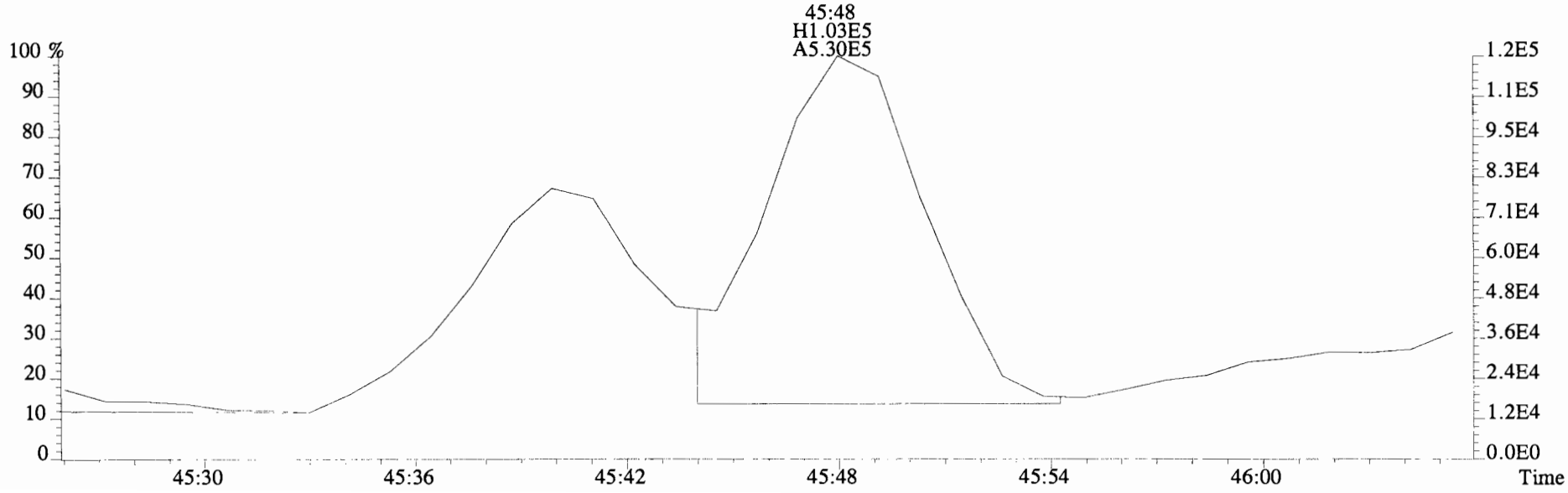
361.8385 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24296.0,0.00%,F,F)



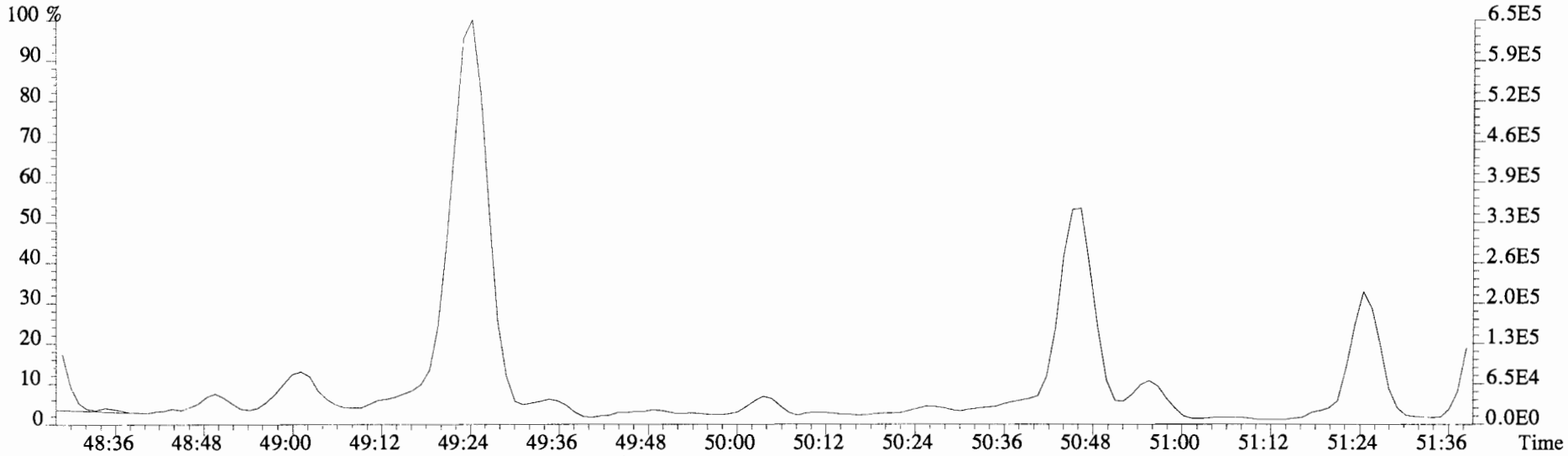
File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16812.0,0.00%,F,F)



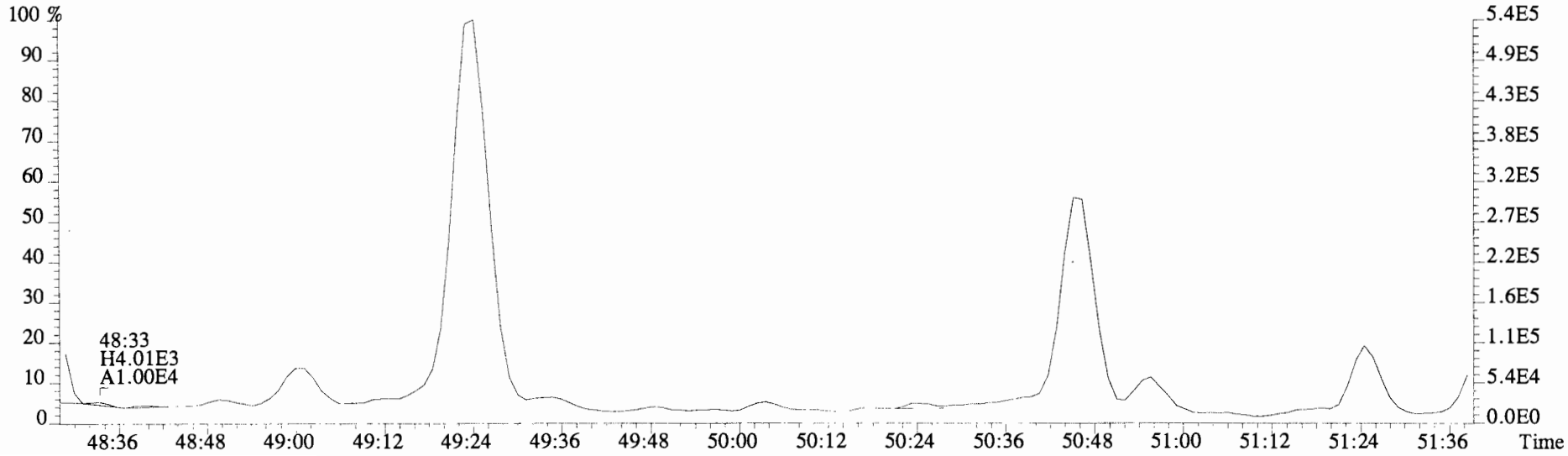
361.8385 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24296.0,0.00%,F,F)



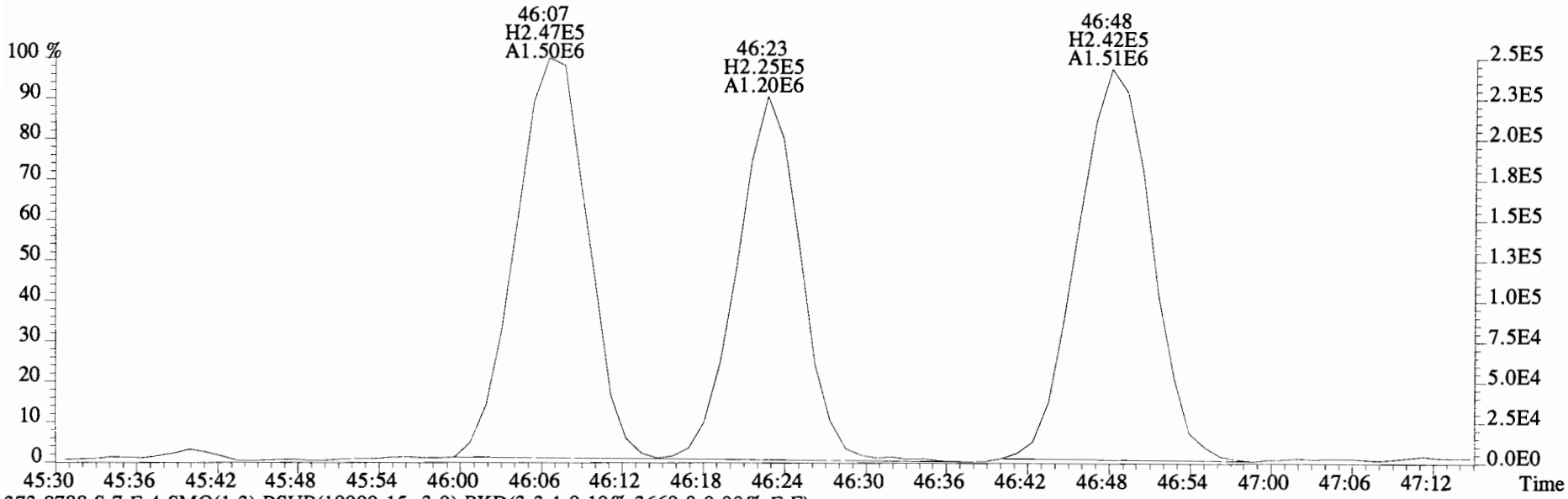
File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16812.0,0.00%,F,F)



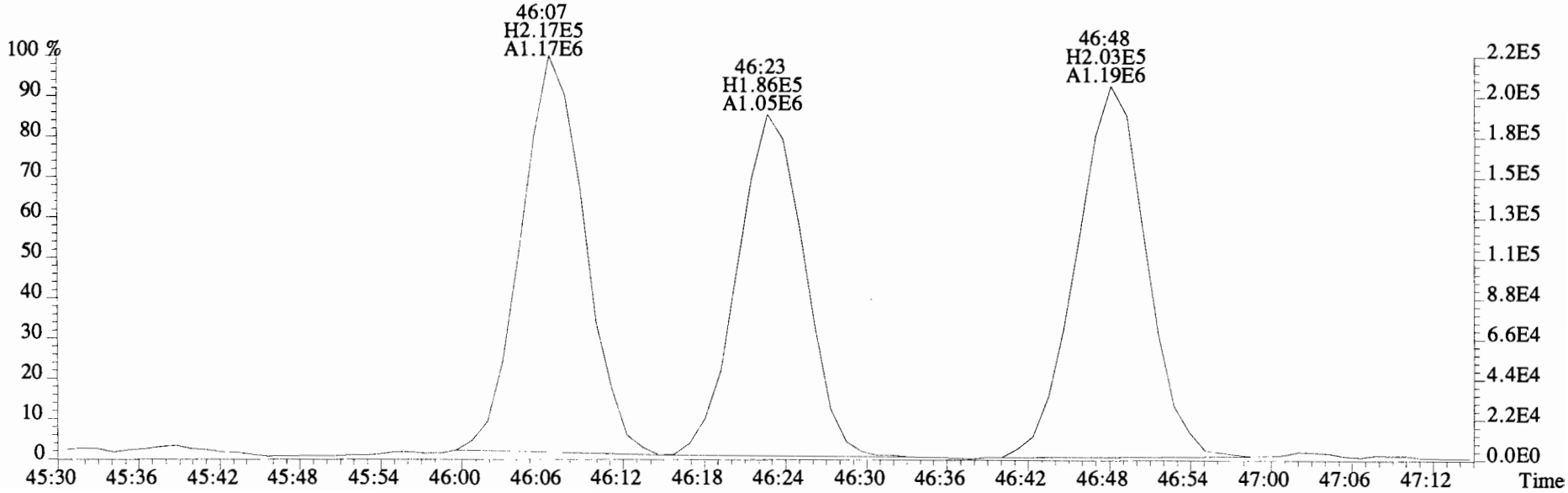
361.8385 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24296.0,0.00%,F,F)



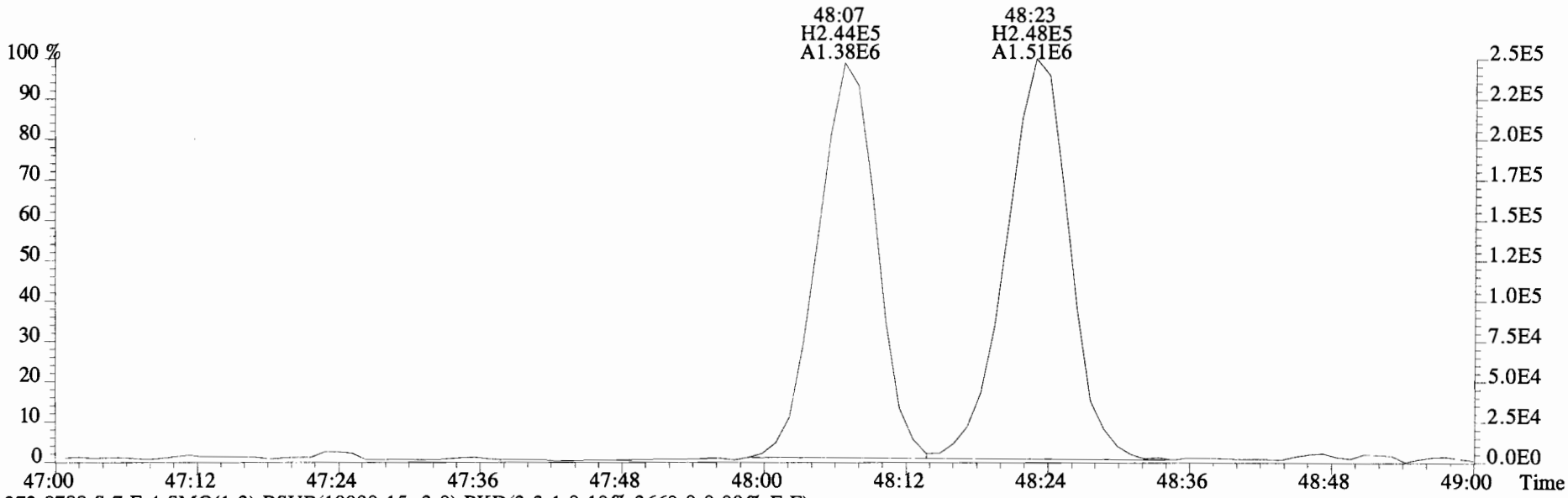
File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
371.8817 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3432.0,0.00%,F,F)



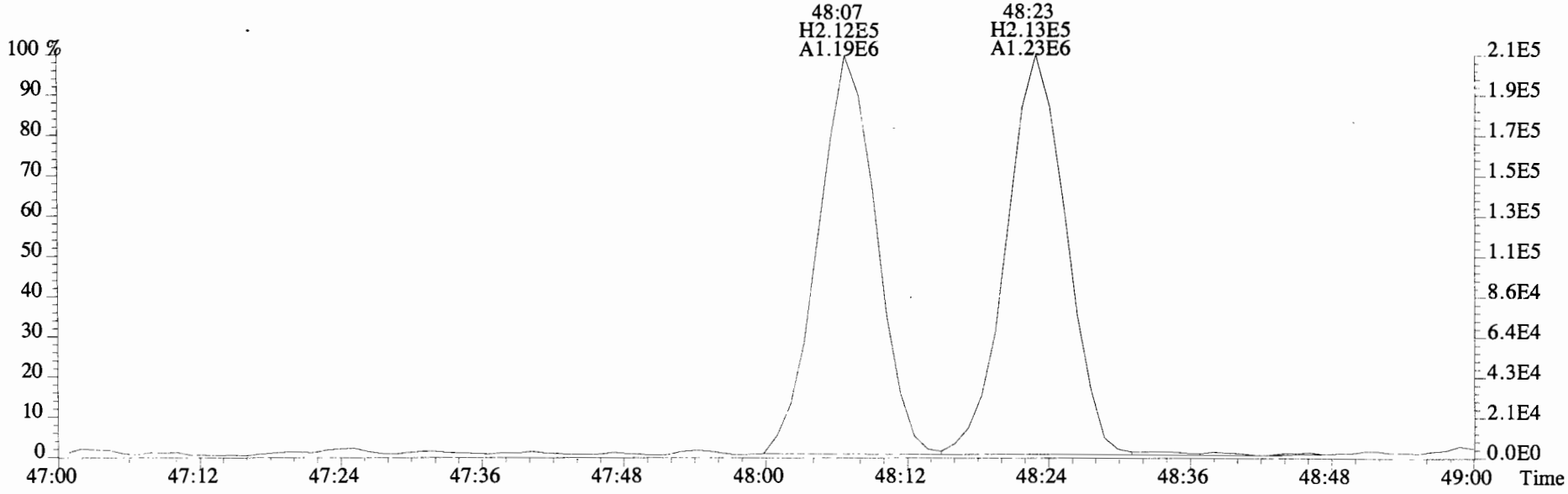
373.8788 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3660.0,0.00%,F,F)

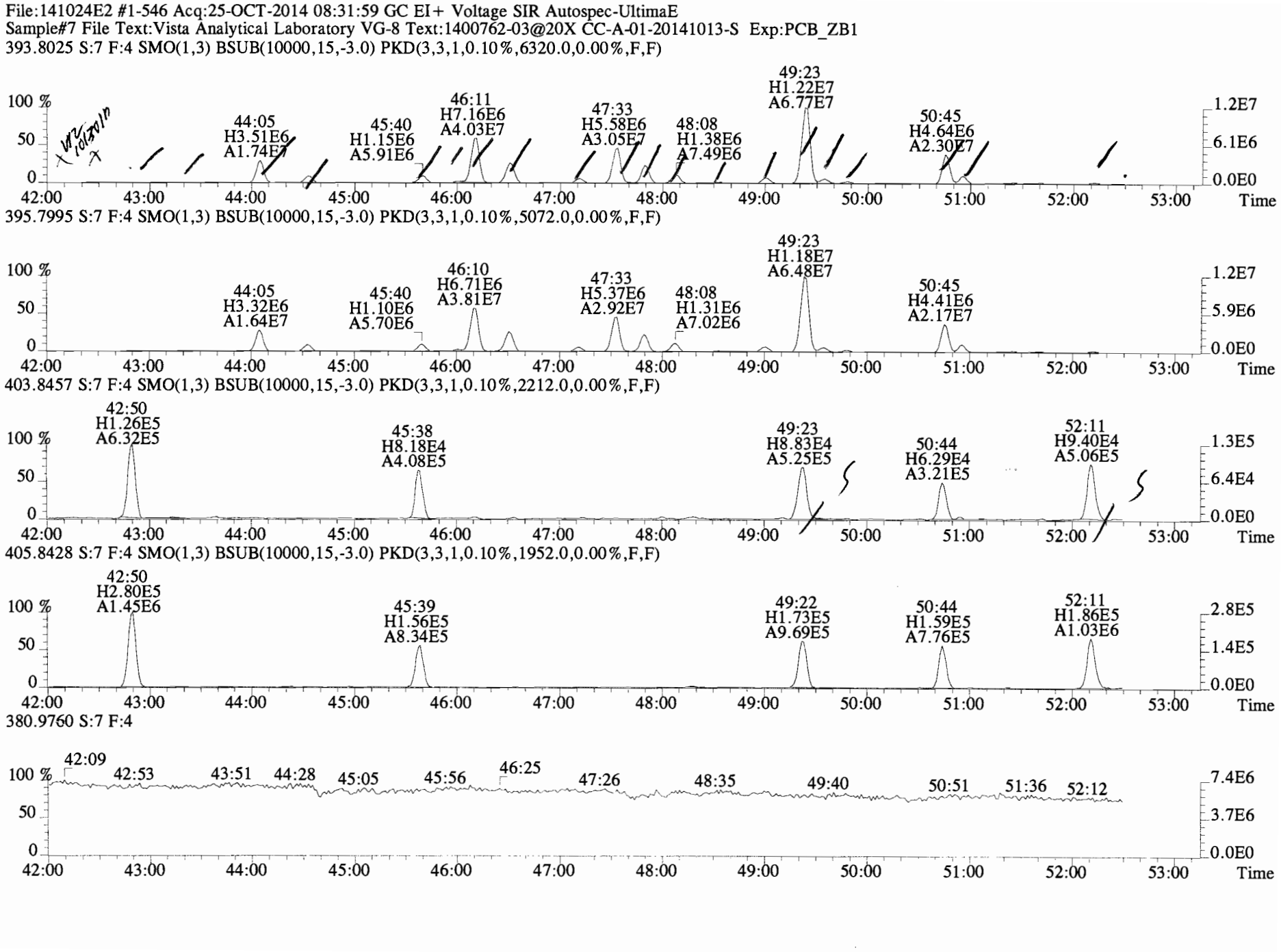


File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
371.8817 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3432.0,0.00%,F,F)

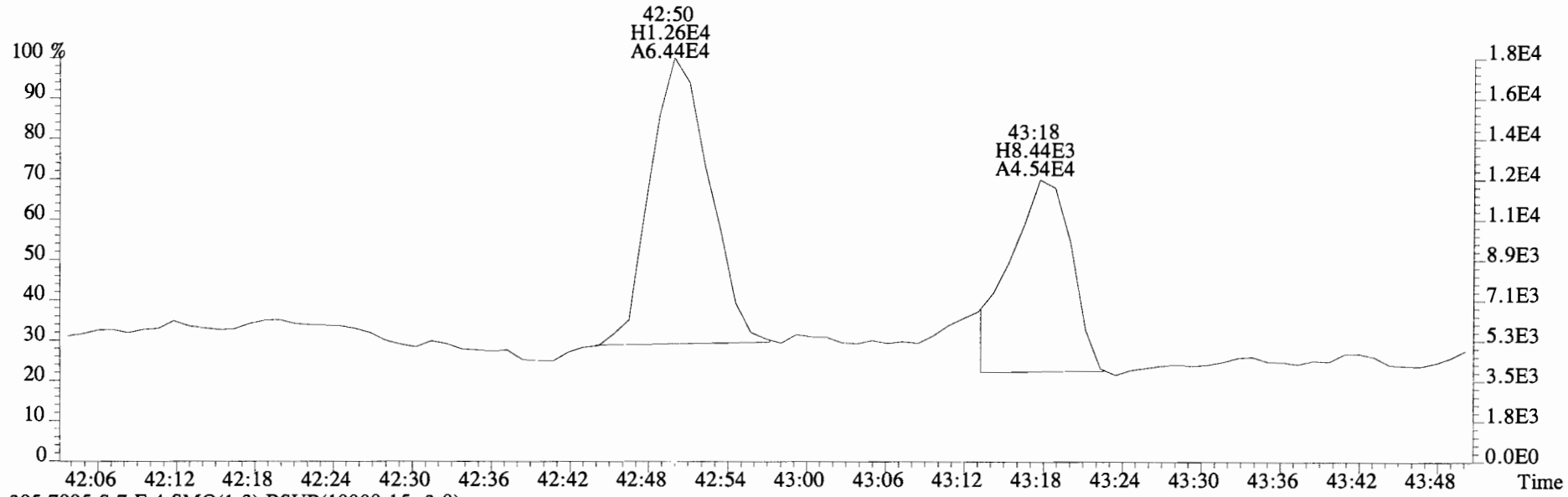


373.8788 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3660.0,0.00%,F,F)

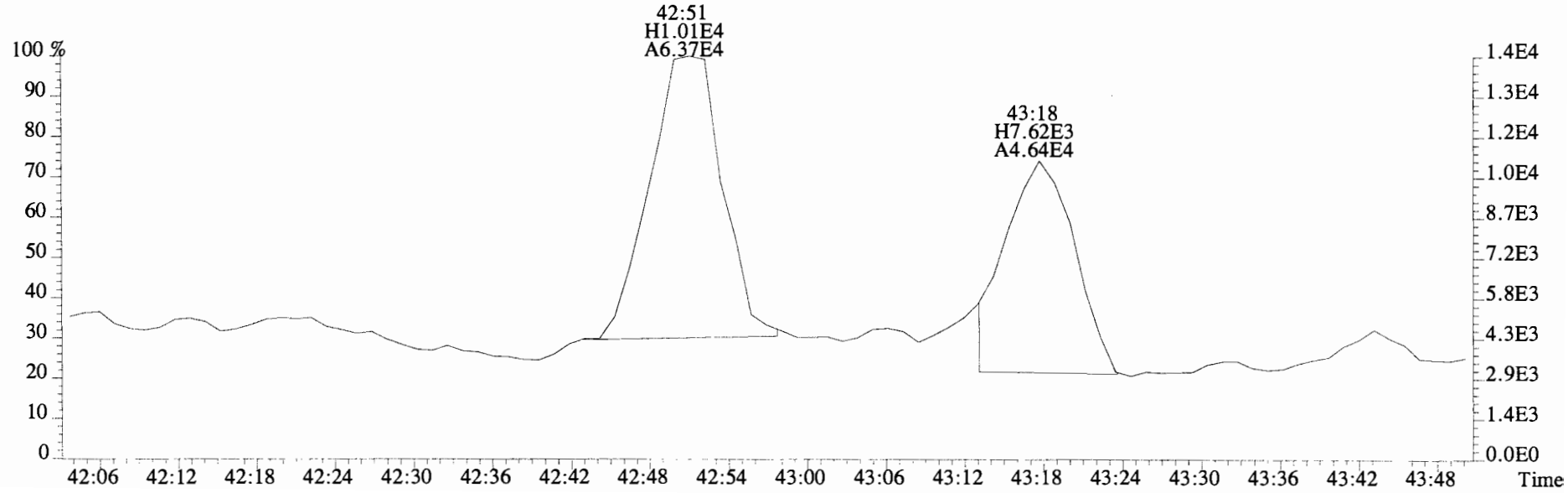



File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6320.0,0.00%,F,F)
44:05 H3.51E6 A1.74E7
45:40 H1.15E6 A5.91E6
46:11 H7.16E6 A4.03E7
47:33 H5.58E6 A3.05E7
48:08 H1.38E6 A7.49E6
49:23 H1.22E7 A6.77E7
50:45 H4.64E6 A2.30E7
395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5072.0,0.00%,F,F)
44:05 H3.32E6 A1.64E7
45:40 H1.10E6 A5.70E6
46:10 H6.71E6 A3.81E7
47:33 H5.37E6 A2.92E7
48:08 H1.31E6 A7.02E6
49:23 H1.18E7 A6.48E7
50:45 H4.41E6 A2.17E7
403.8457 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2212.0,0.00%,F,F)
42:50 H1.26E5 A6.32E5
45:38 H8.18E4 A4.08E5
49:23 H8.83E4 A5.25E5
50:44 H6.29E4 A3.21E5
52:11 H9.40E4 A5.06E5
405.8428 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1952.0,0.00%,F,F)
42:50 H2.80E5 A1.45E6
45:39 H1.56E5 A8.34E5
49:22 H1.73E5 A9.69E5
50:44 H1.59E5 A7.76E5
52:11 H1.86E5 A1.03E6
380.9760 S:7 F:4
42:09
42:53
43:51
44:28
45:05
45:56
46:25
47:26
48:35
49:40
50:51
51:36
52:12
100 %
50
0
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
51:00
52:00
53:00
Time
1.2E7
6.1E6
0.0E0
5.9E6
1.3E5
6.4E4
2.8E5
1.4E5
7.4E6
3.7E6

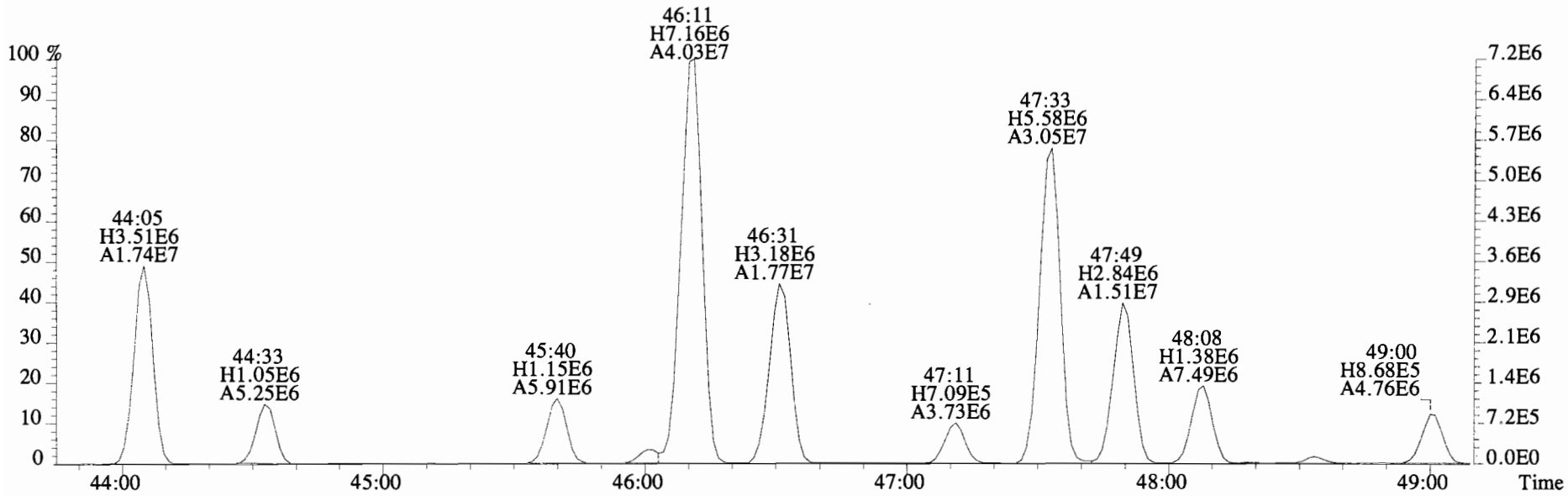
File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



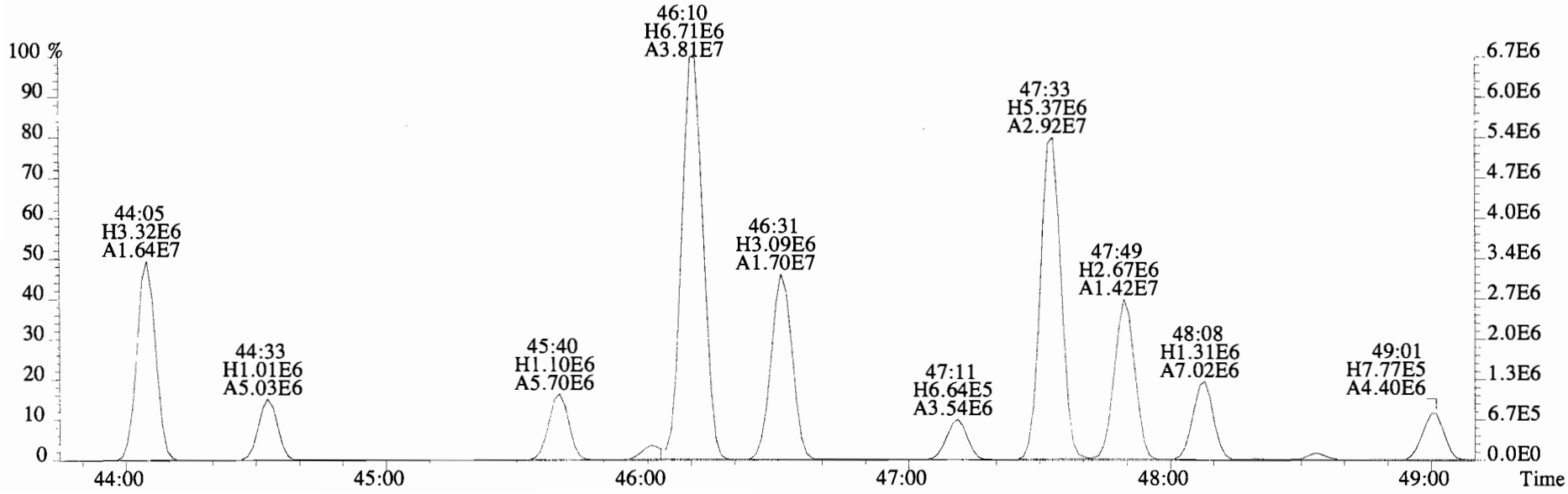
395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



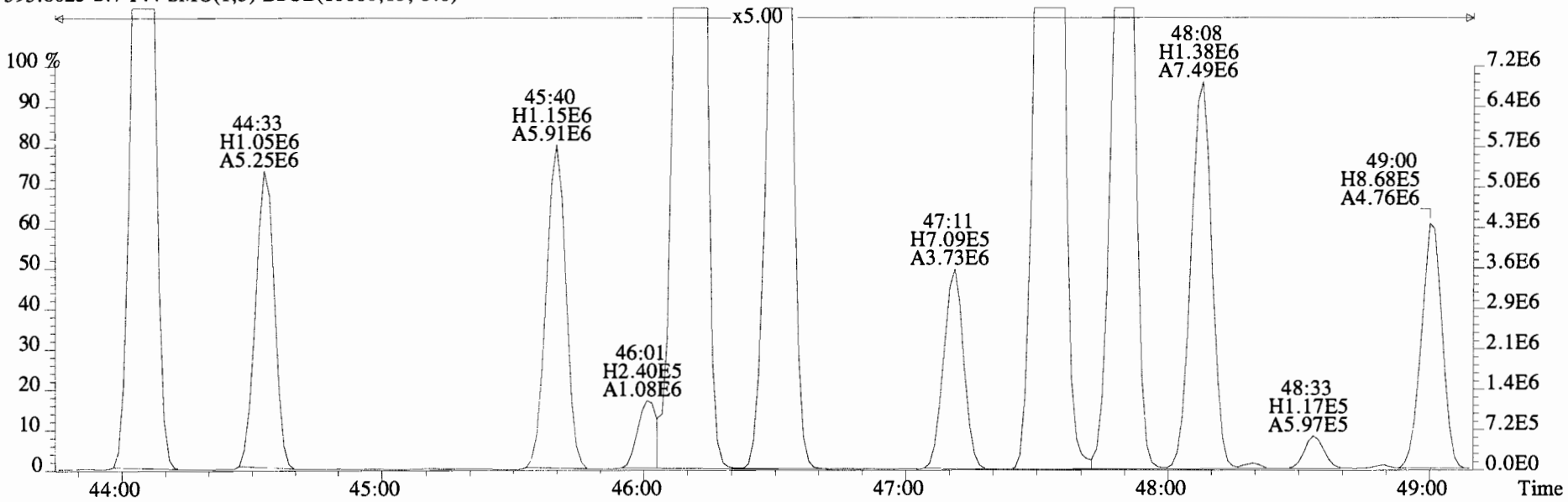
File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



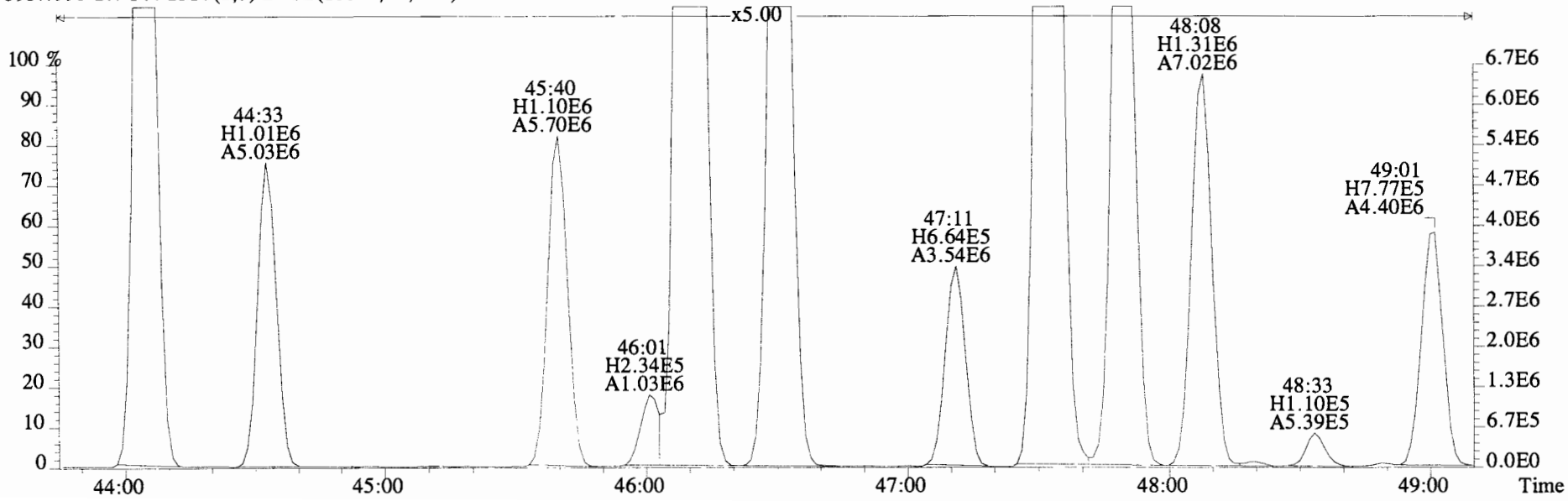
395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



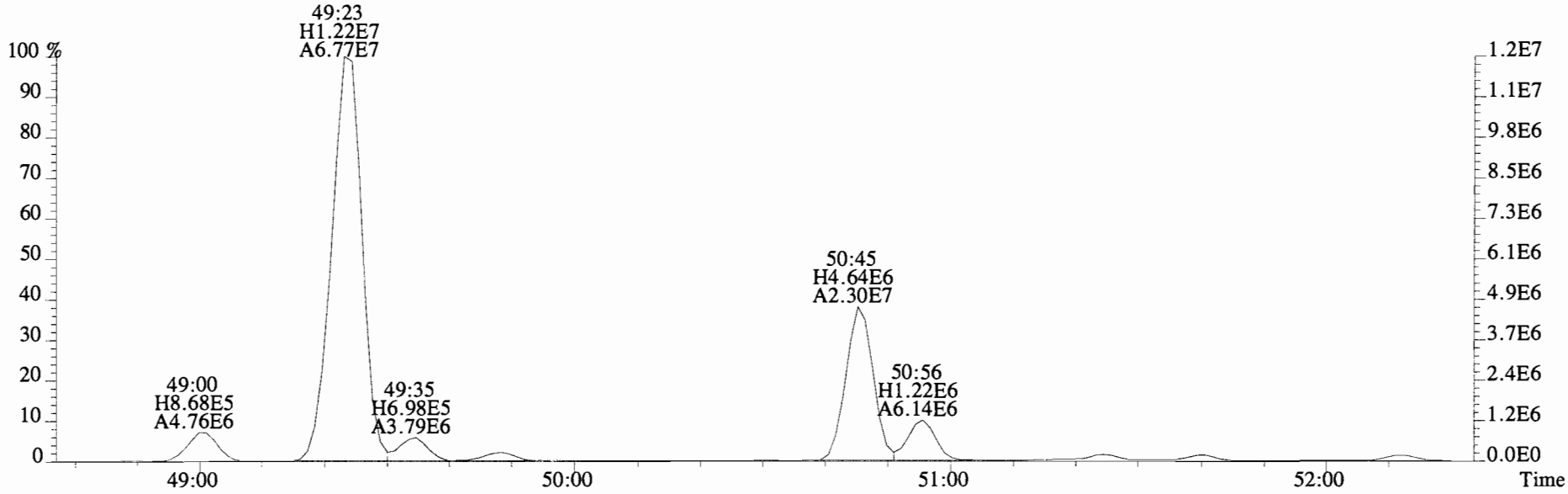
File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



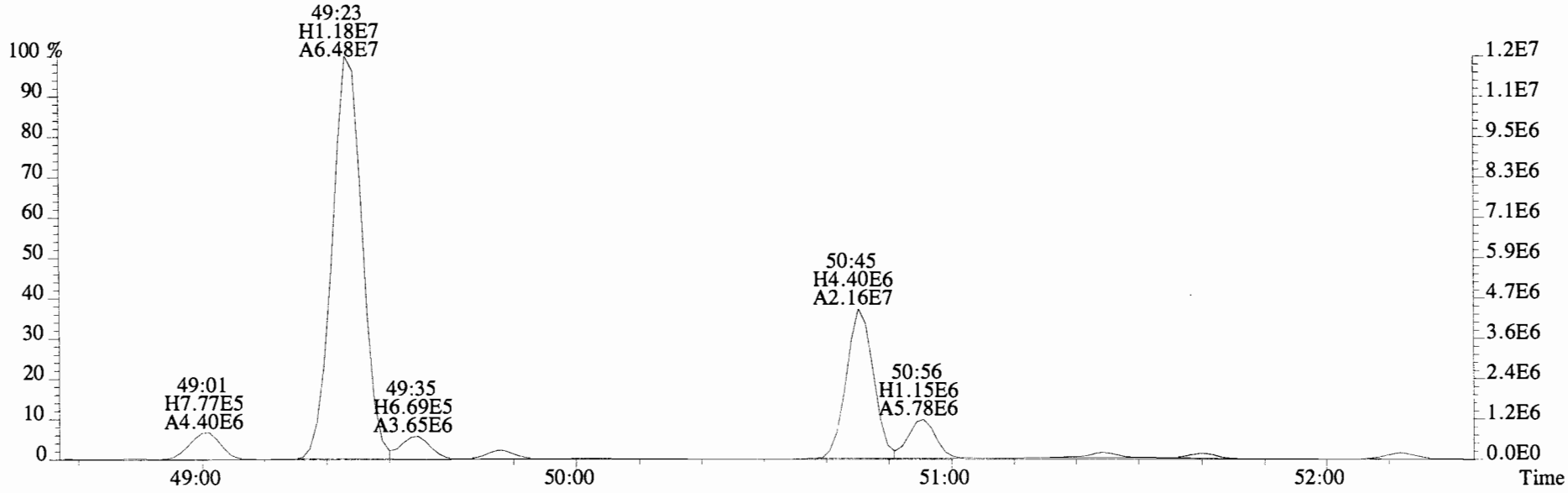
395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



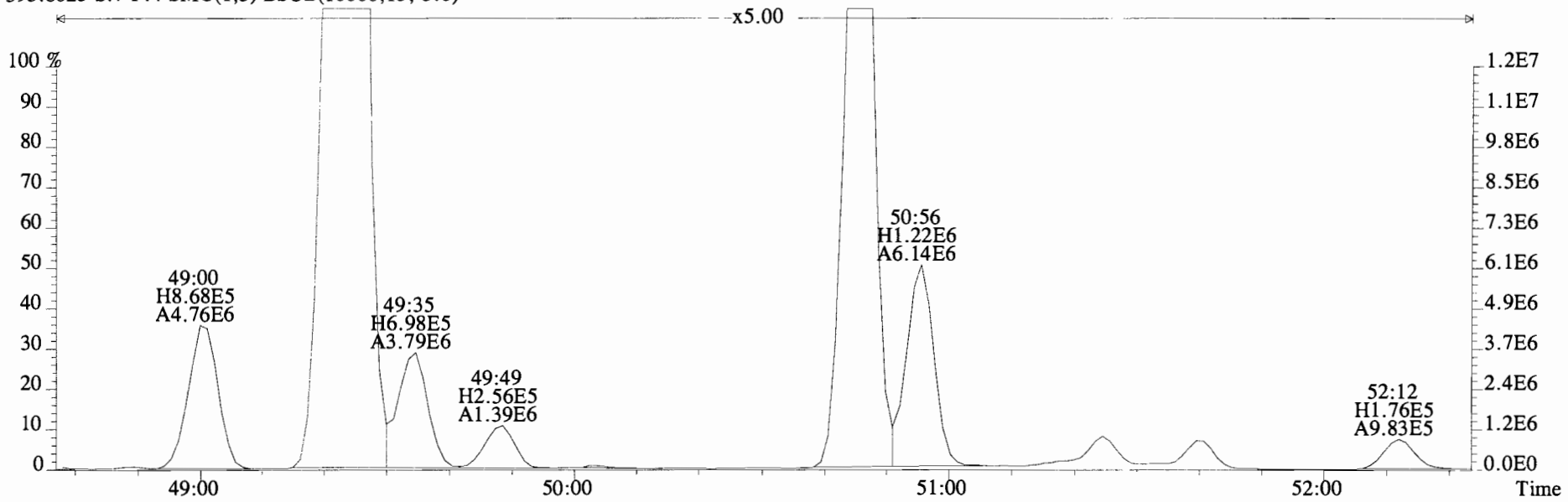
File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



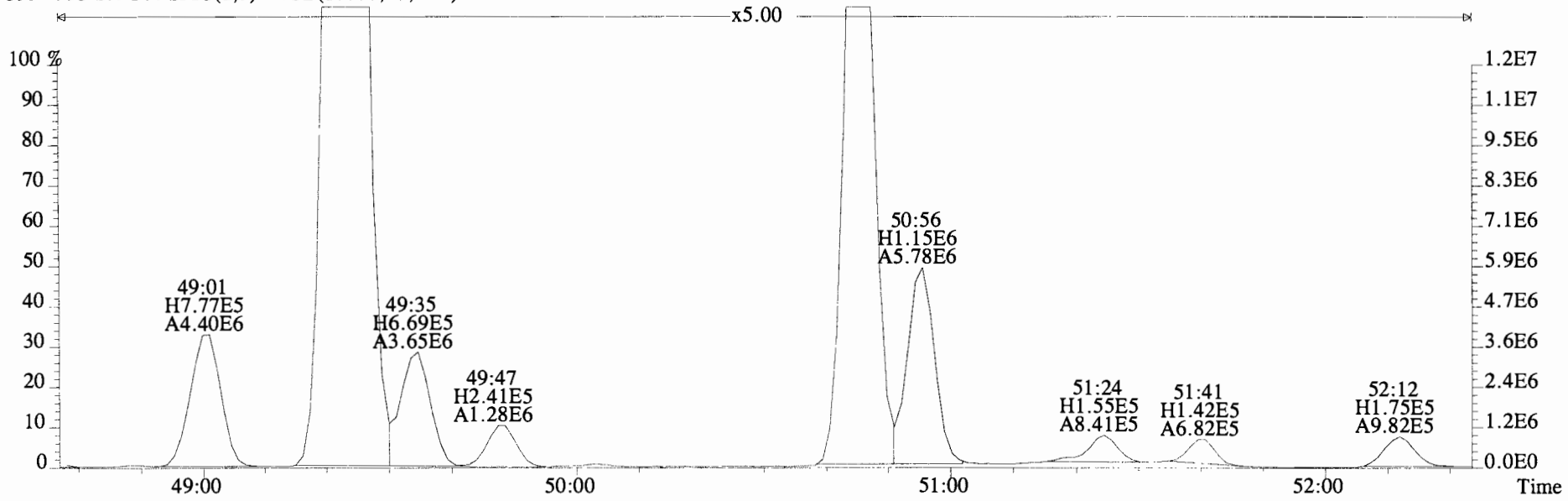
395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



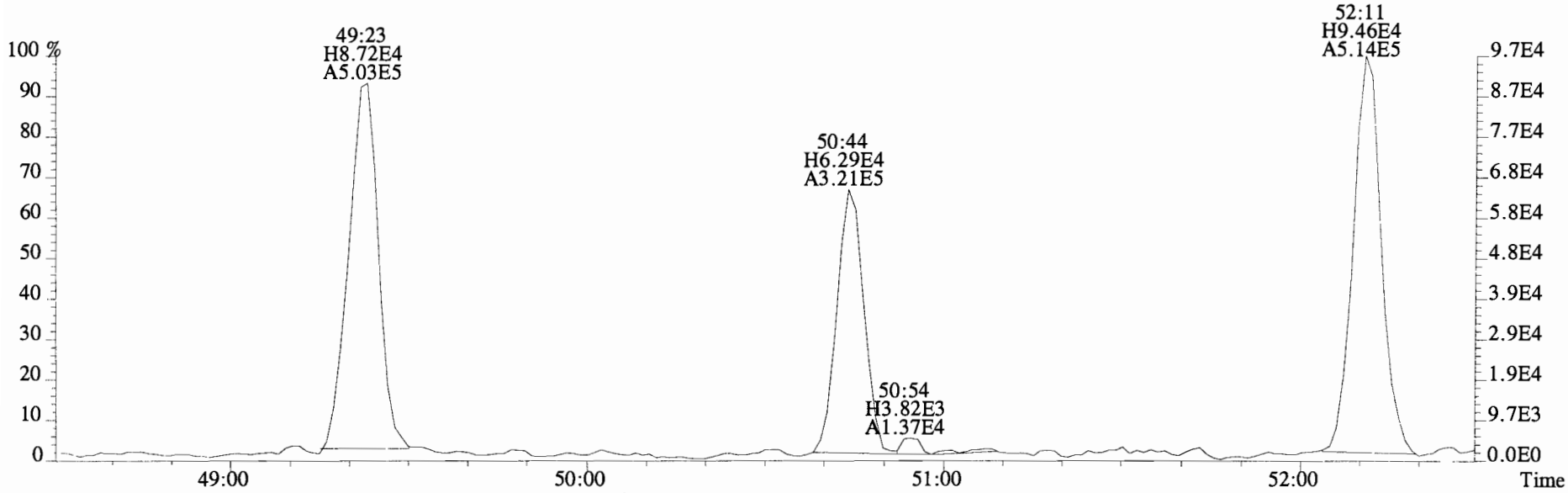
File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



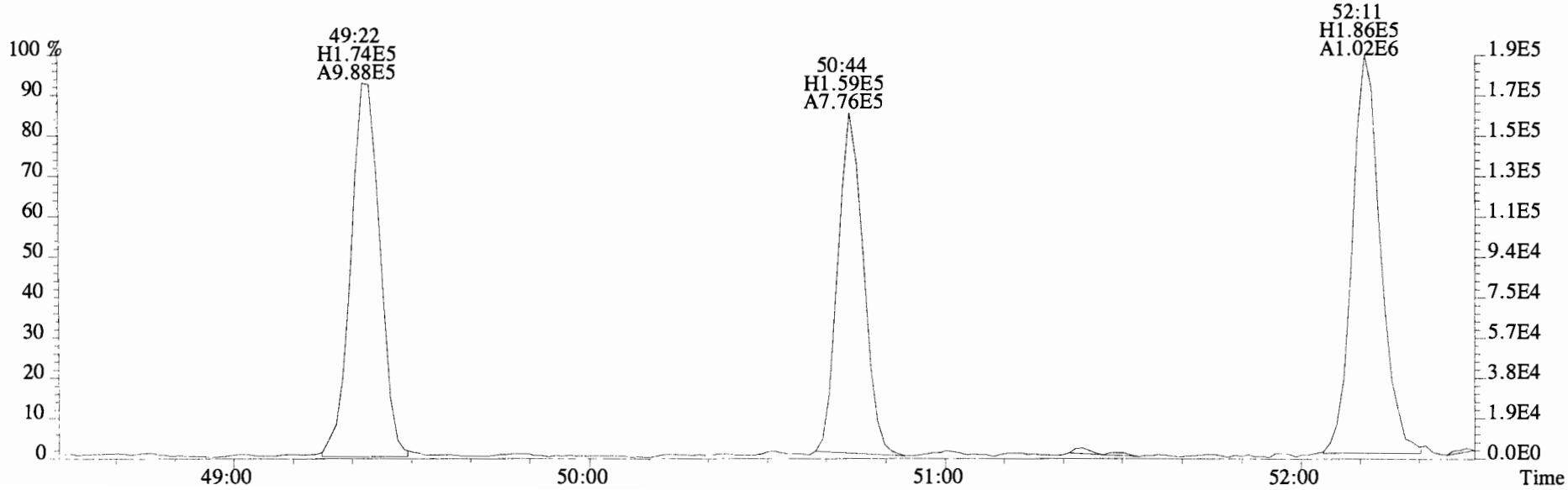
395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



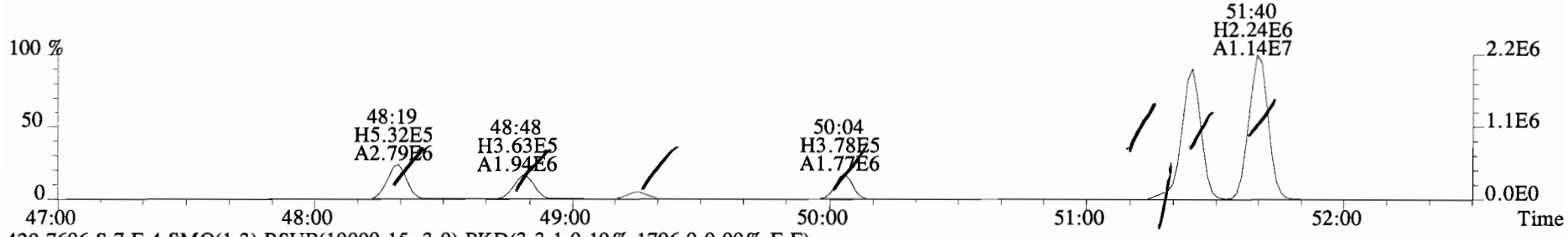
File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
403.8457 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2212.0,0.00%,F,F)



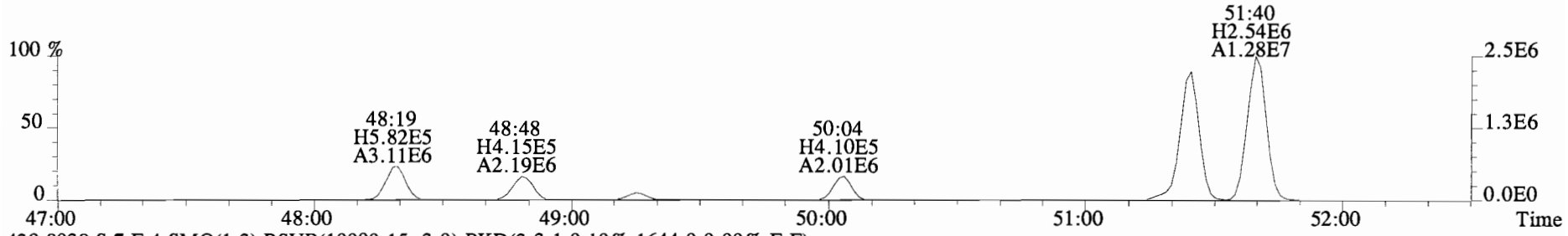
405.8428 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1952.0,0.00%,F,F)



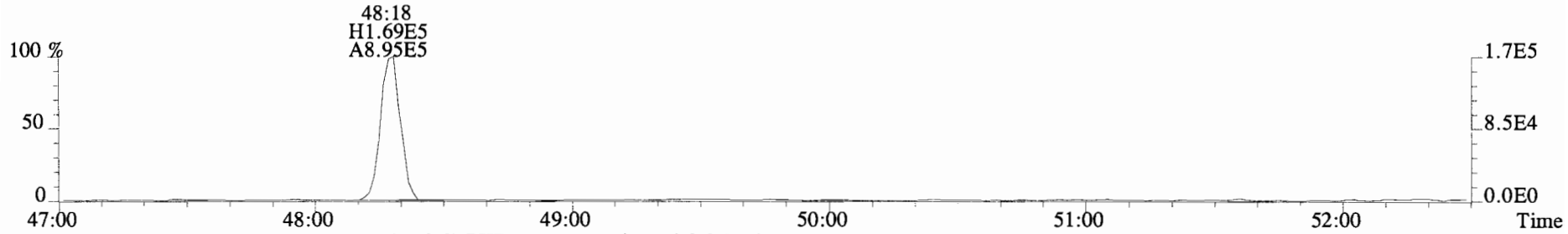
File:141024E2 #1-546 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
427.7635 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1708.0,0.00%,F,F)



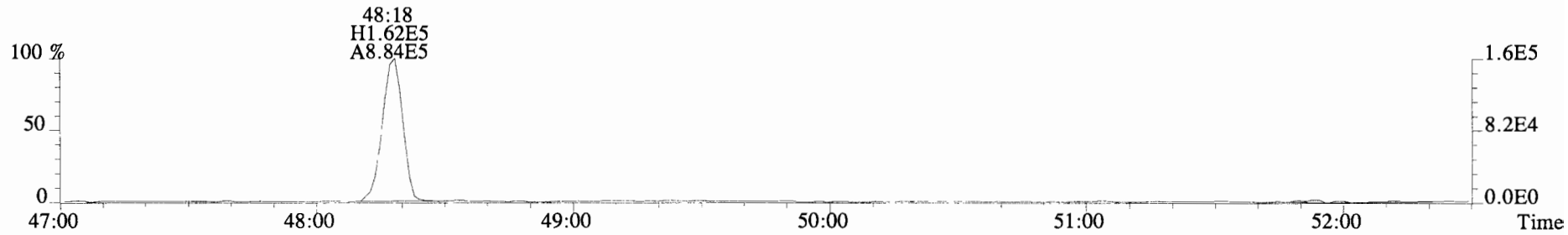
429.7606 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1796.0,0.00%,F,F)



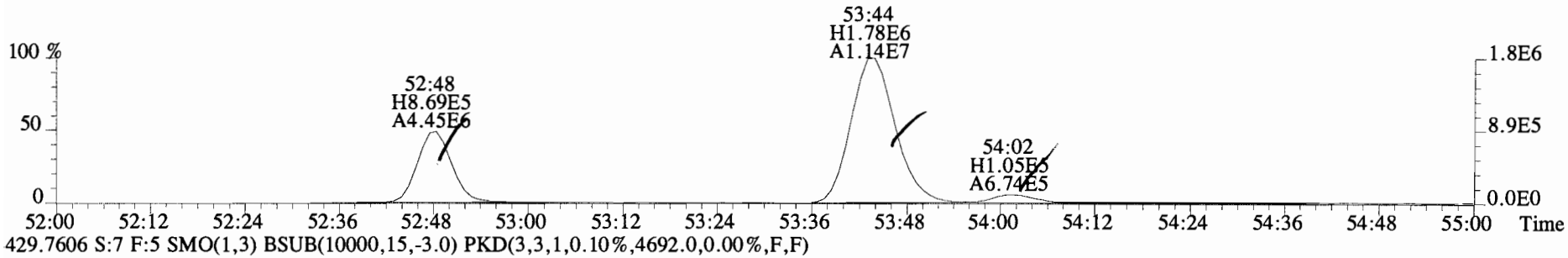
439.8038 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1644.0,0.00%,F,F)



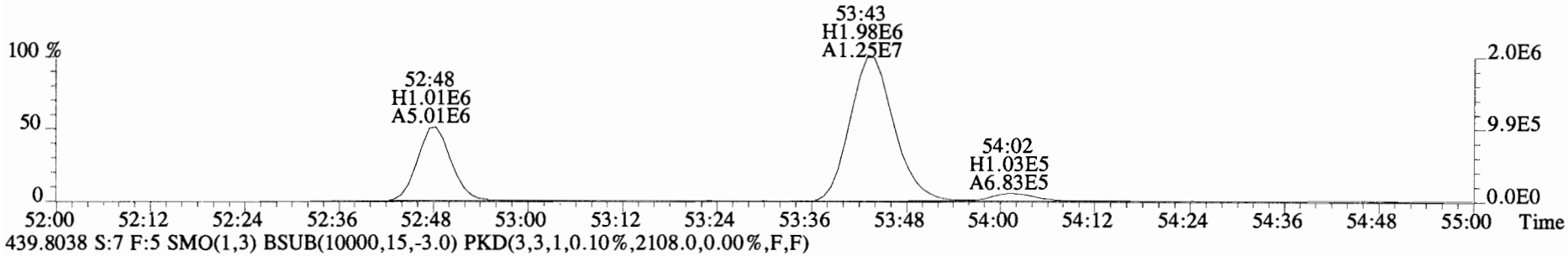
441.8008 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1544.0,0.00%,F,F)



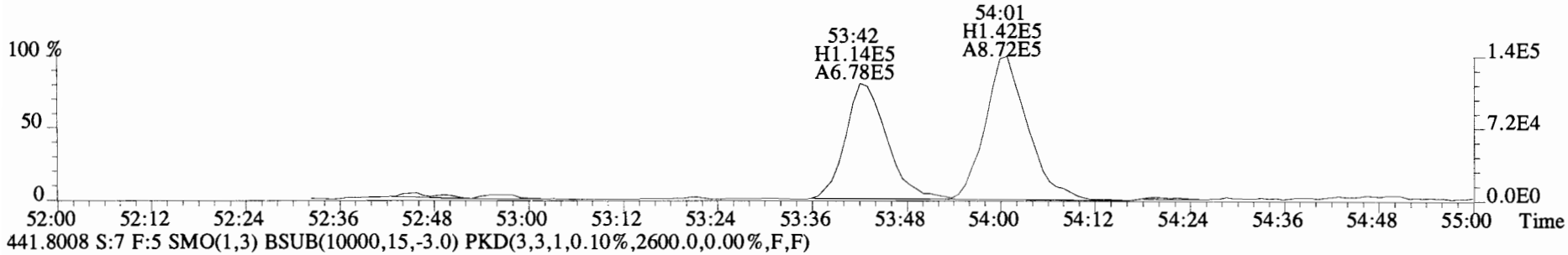
File:141024E2 #1-435 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
427.7635 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3708.0,0.00%,F,F)



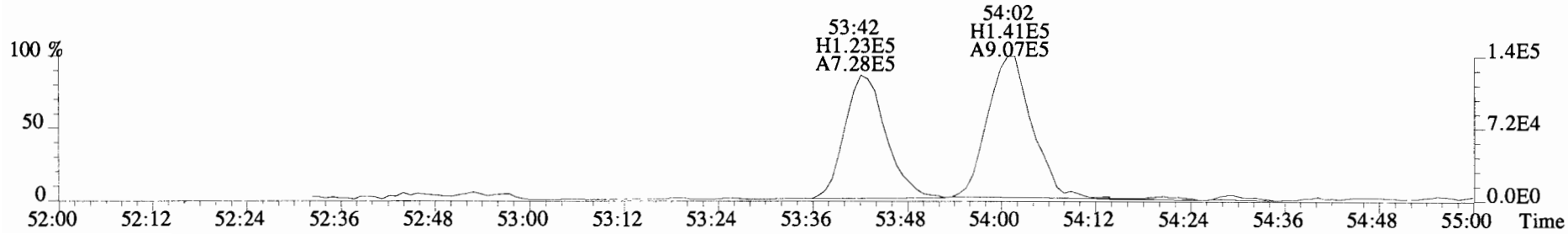
429.7606 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4692.0,0.00%,F,F)



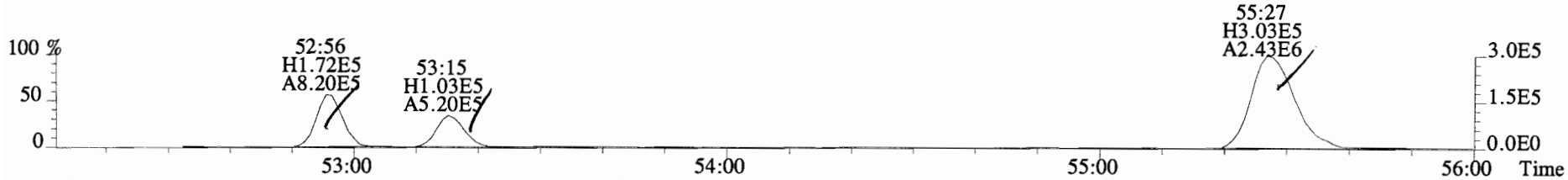
439.8038 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2108.0,0.00%,F,F)



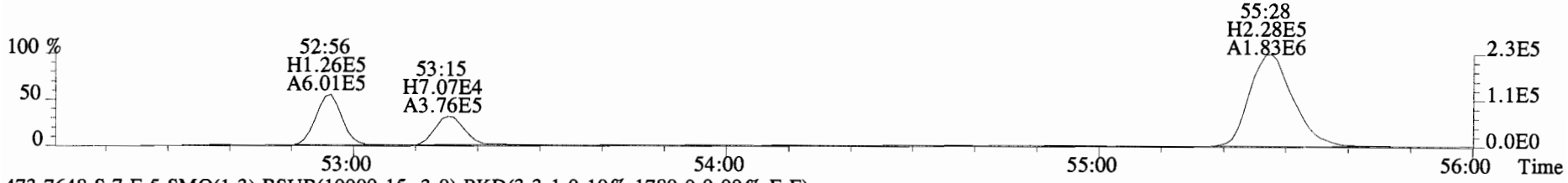
441.8008 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)



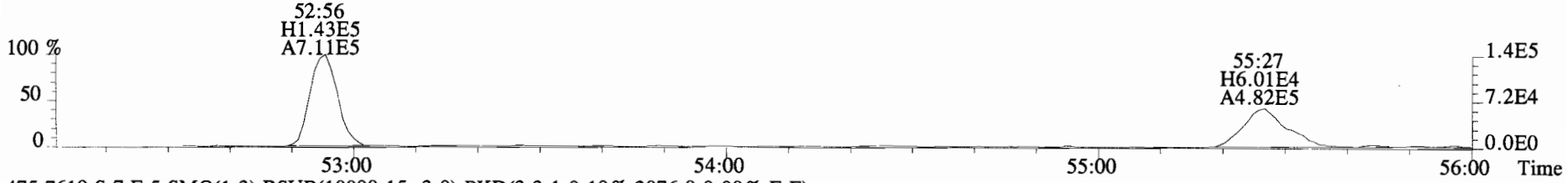
File:141024E2 #1-435 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
463.7216 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1300.0,0.00%,F,F)



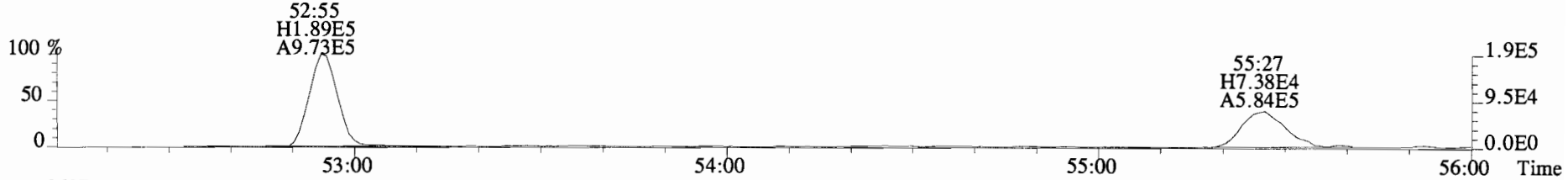
465.7186 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1480.0,0.00%,F,F)



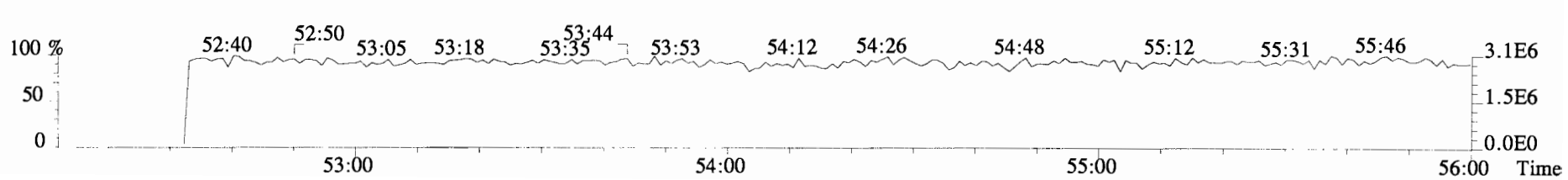
473.7648 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1780.0,0.00%,F,F)



475.7619 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2076.0,0.00%,F,F)

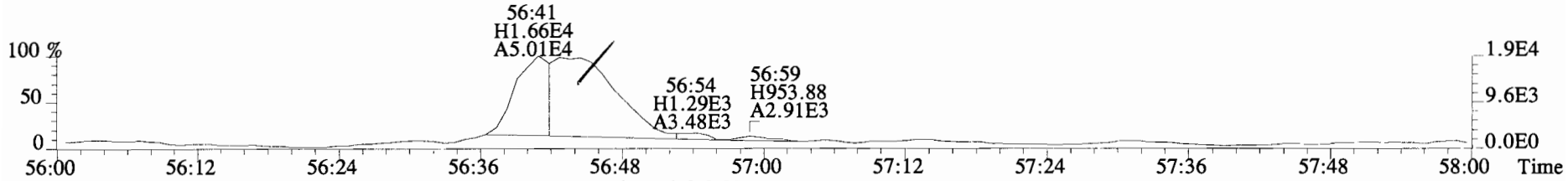


492.9697 S:7 F:5

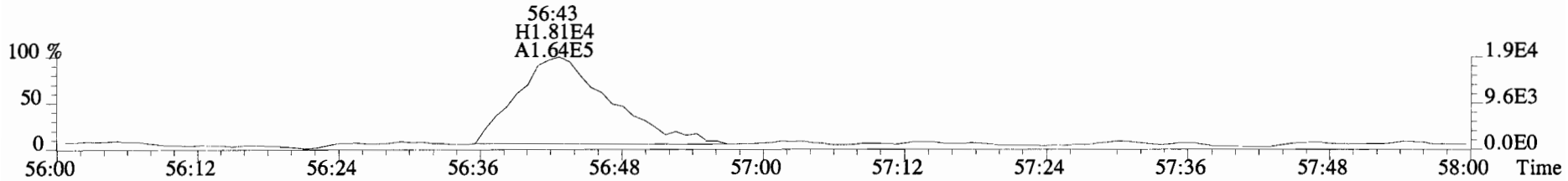


File:141024E2 #1-435 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1

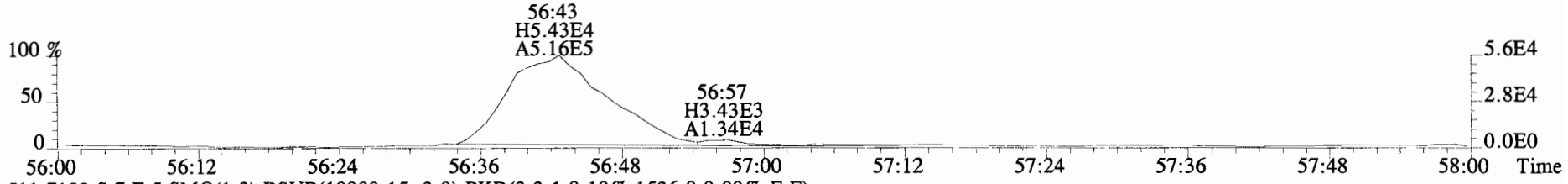
497.6826 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1532.0,0.00%,F,F)



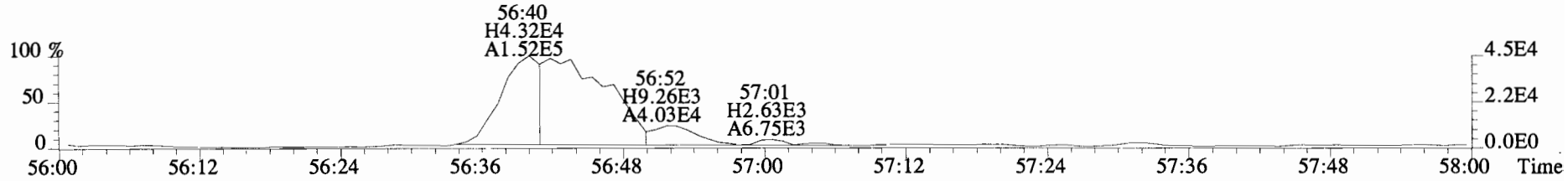
499.6797 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1488.0,0.00%,F,F)



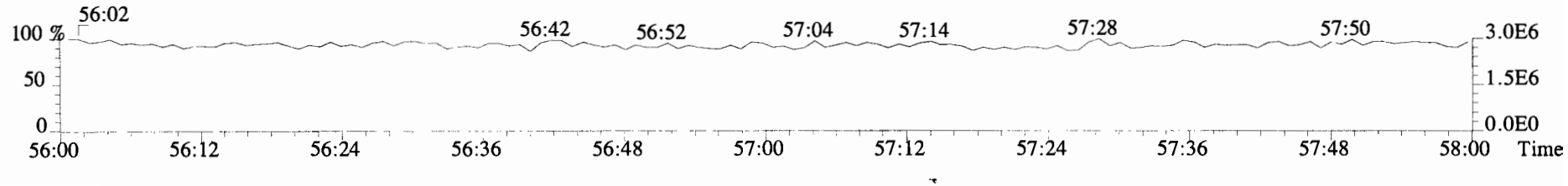
509.7229 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1644.0,0.00%,F,F)



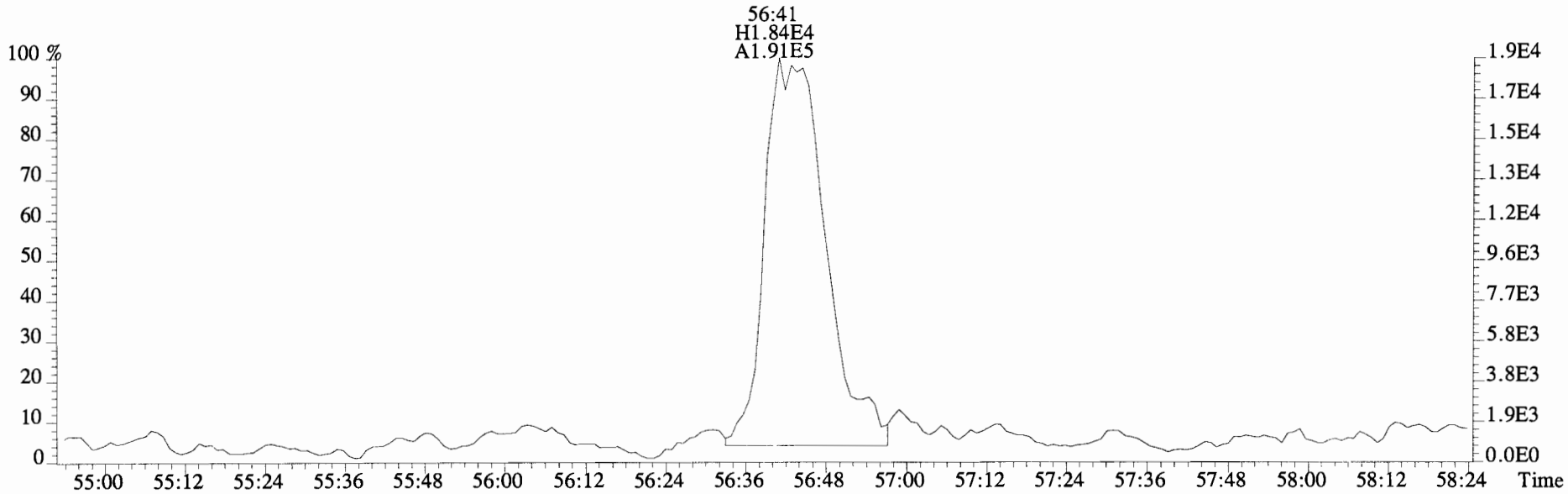
511.7199 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1536.0,0.00%,F,F)



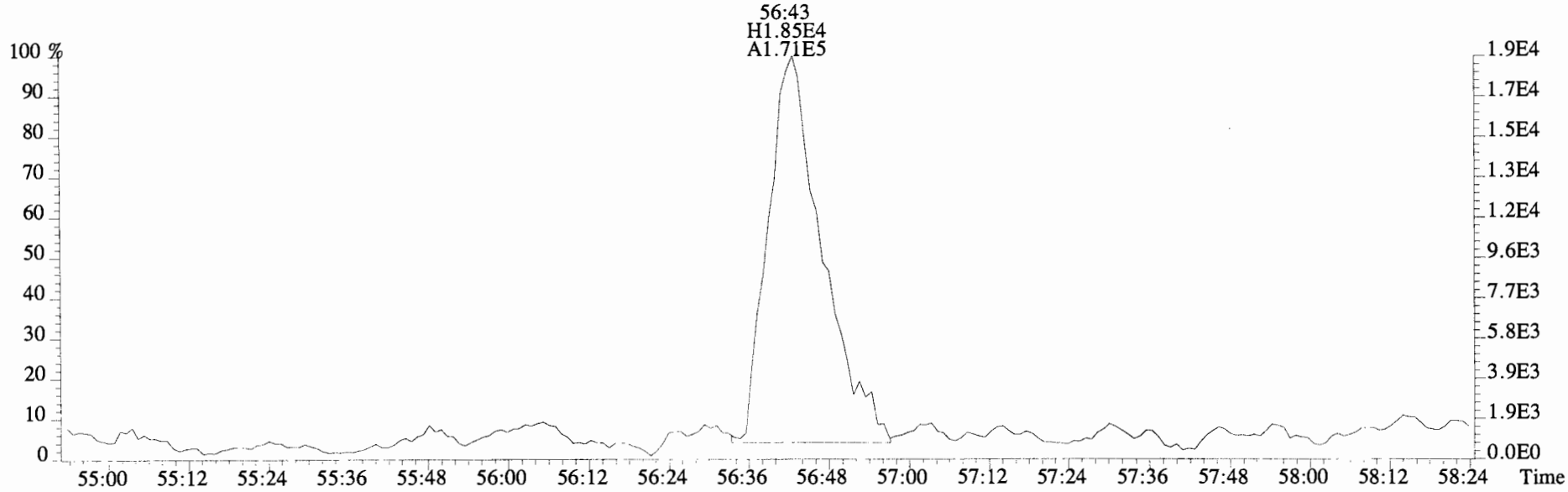
492.9697 S:7 F:5



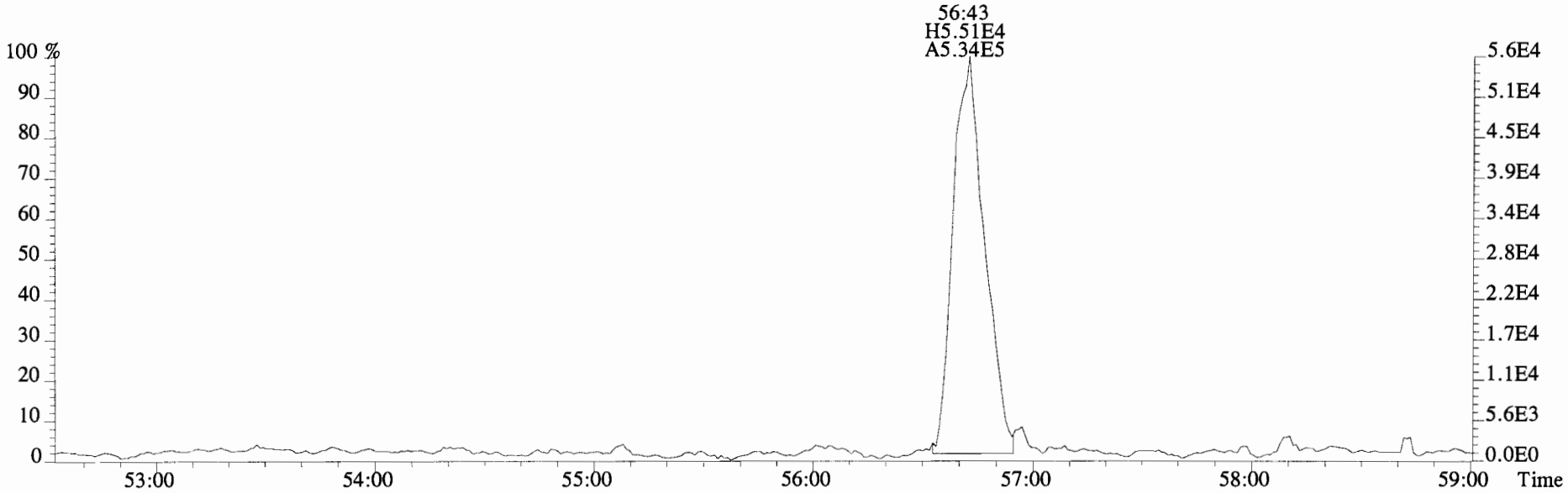
File:141024E2 #1-435 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
497.6826 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1532.0,0.00%,F,F)



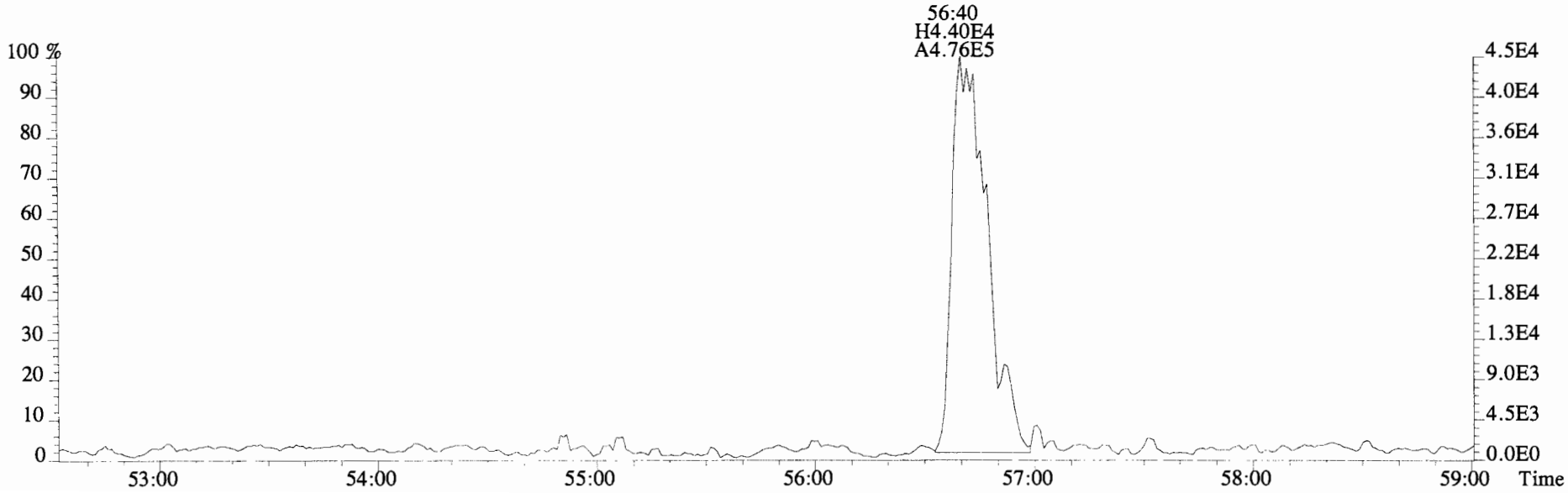
499.6797 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1488.0,0.00%,F,F)



File:141024E2 #1-435 Acq:25-OCT-2014 08:31:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-03@20X CC-A-01-20141013-S Exp:PCB_ZB1
509.7229 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1644.0,0.00%,F,F)



511.7199 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1536.0,0.00%,F,F)



Client ID: CC-CB-04-20141013-S Filename: 141024E2 S:8 Acq:25-OCT-14 09:35:32 ConCal: ST141024E2-1
Lab ID: 1400762-04@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 10.006 / EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Mono	PCB-1	5.28e+05	3.05	y 16:28	1.19	84.1		*	2.5	*	1.001	0.996-1.006
Mono	PCB-2	2.50e+05	2.80	y 18:44	1.18	42.0		*	2.5	*	0.989	0.984-0.994
Mono	PCB-3	6.19e+05	2.95	y 18:58	1.43	86.3		*	2.5	*	1.001	0.996-1.006
Di	PCB-4/10	6.01e+05	1.71	y 20:15	1.57	149		*	2.5	*	1.000	0.997-1.007
Di	PCB-7/9	*	*	n NotFnd	1.21	*		14400	2.5	71.1	*	0.866-0.874
Di	PCB-6	4.99e+05	1.94	n 22:38	1.30	93.4	R	*	2.5	*	0.896	0.890-0.899
Di	PCB-5/8	2.53e+06	1.65	y 23:01	1.15	538		*	2.5	*	0.911	0.907-0.917
Di	PCB-14	*	*	n NotFnd	1.11	*		14400	2.5	74.6	*	0.949-0.959
Di	PCB-11	1.09e+07	1.61	y 25:17	1.09	2360		*	2.5	*	1.001	0.995-1.005
Di	PCB-12/13	*	*	n NotFnd	1.19	*		14400	2.5	69.3	*	1.011-1.021
Di	PCB-15	2.44e+06	1.53	y 25:59	1.28	448		*	2.5	*	1.028	1.023-1.033
Tri	PCB-19	2.10e+05	1.16	y 24:18	1.04	65.1		*	2.5	*	1.001	0.996-1.006
Tri	PCB-30	*	*	n NotFnd	1.71	*		2140	2.5	8.70	*	1.032-1.042
Tri	PCB-18	2.38e+06	1.02	y 25:54	0.78	699		*	2.5	*	0.955	0.949-0.959
Tri	PCB-17	9.59e+05	1.02	y 26:04	0.92	239		*	2.5	*	0.961	0.956-0.966
Tri	PCB-24/27	2.77e+05	1.14	y 26:37	1.19	53.5		*	2.5	*	0.981	0.977-0.987
Tri	PCB-16/32	1.87e+06	1.10	y 27:08	0.94	457		*	2.5	*	1.000	0.995-1.005
Tri	PCB-34	*	*	n NotFnd	1.14	*		3090	2.5	17.9	*	0.955-0.965
Tri	PCB-23	*	*	n NotFnd	1.28	*		3090	2.5	15.9	*	0.959-0.969
Tri	PCB-29	8.28e+04	1.12	y 28:16	1.08	24.3		*	2.5	*	0.972	0.967-0.977
Tri	PCB-26	7.79e+05	1.11	y 28:27	1.21	205		*	2.5	*	0.979	0.974-0.984
Tri	PCB-25	3.77e+05	1.15	y 28:36	1.26	94.8		*	2.5	*	0.984	0.979-0.989
Tri	PCB-31	4.22e+06	1.05	y 28:58	1.28	1040		*	2.5	*	0.997	0.992-1.002
Tri	PCB-28	4.09e+06	1.00	y 29:04	1.71	757		*	2.5	*	1.000	0.995-1.005
Tri	PCB-20/21/33	2.41e+06	0.99	y 29:42	1.08	707		*	2.5	*	1.022	1.017-1.027
Tri	PCB-22	1.48e+06	1.11	y 30:07	1.21	389		*	2.5	*	1.036	1.032-1.042
Tri	PCB-36	*	*	n NotFnd	1.14	*		3090	2.5	25.4	*	0.928-0.938
Tri	PCB-39	*	*	n NotFnd	1.12	*		3090	2.5	26.0	*	0.943-0.953
Tri	PCB-38	8.82e+04	0.71	n 31:59	1.20	24.3	R	*	2.5	*	0.970	0.966-0.976
Tri	PCB-35	4.66e+05	1.10	y 32:32	1.23	125		*	2.5	*	0.986	0.982-0.992
Tri	PCB-37	2.42e+06	1.12	y 33:00	1.23	651		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-54	*	*	n NotFnd	1.10	*		5240	2.5	27.3	*	0.996-1.006
Tetra	PCB-50	*	*	n NotFnd	0.88	*		5240	2.5	34.2	*	1.037-1.047
Tetra	PCB-53	1.73e+06	0.72	y 29:46	1.06	607		*	2.5	*	0.946	0.942-0.952
Tetra	PCB-51	2.91e+05	0.79	y 30:06	0.99	110		*	2.5	*	0.957	0.952-0.962
Tetra	PCB-45	6.79e+05	0.67	y 30:32	0.86	293		*	2.5	*	0.971	0.966-0.976
Tetra	PCB-46	3.24e+05	0.76	y 31:01	0.85	143		*	2.5	*	0.986	0.981-0.991

Integrations by:

Analyst: DMS

Date: 10/30/14

Reviewed by: [signature] Date: 10/30/14

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Tetra	PCB-52/69	9.99e+07	0.74	y 31:28	1.28	29000		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-73	*	*	n NotFnd	1.35	*		5240	2.5	30.6	*	1.000-1.010
Tetra	PCB-43/49	1.83e+07	0.71	y 31:46	0.99	6870		*	2.5	*	1.010	1.005-1.015
Tetra	PCB-47	2.39e+06	0.71	y 31:59	1.06	773		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-48/75	1.64e+06	0.71	y 32:05	1.23	457		*	2.5	*	1.004	0.999-1.009
Tetra	PCB-65	*	*	n NotFnd	1.22	*		5240	2.5	30.2	*	1.008-1.018
Tetra	PCB-62	*	*	n NotFnd	1.22	*		5240	2.5	30.3	*	1.011-1.021
Tetra	PCB-44	3.37e+07	0.74	y 32:49	0.86	13400		*	2.5	*	1.027	1.021-1.031
Tetra	PCB-42/59	2.98e+06	0.72	y 33:04	1.14	897		*	2.5	*	1.035	1.028-1.038
Tetra	PCB-41/64/71/72	1.81e+07	0.73	y 33:36	1.21	5130		*	2.5	*	1.052	1.046-1.056
Tetra	PCB-68	1.23e+05	0.77	y 33:51	1.35	31.3		*	2.5	*	1.059	1.054-1.064
Tetra	PCB-40	1.44e+06	0.70	y 34:04	0.70	704		*	2.5	*	1.066	1.061-1.071
Tetra	PCB-57	1.25e+05	0.85	y 34:24	0.98	34.4		*	2.5	*	0.970	0.965-0.975
Tetra	PCB-67	4.66e+05	0.73	y 34:42	1.11	113		*	2.5	*	0.978	0.974-0.984
Tetra	PCB-58	5.57e+04	0.88	y 34:50	0.93	16.2		*	2.5	*	0.982	0.977-0.987
Tetra	PCB-63	1.04e+06	0.74	y 34:58	0.95	293		*	2.5	*	0.986	0.982-0.992
Tetra	PCB-74	2.14e+07	0.75	y 35:15	1.24	4630		*	2.5	*	0.994	0.990-1.000
Tetra	PCB-61/70	9.98e+07	0.74	y 35:28	0.95	28200		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-76/66	2.50e+07	0.73	y 35:41	1.04	6430		*	2.5	*	1.006	1.001-1.011
Tetra	PCB-80	*	*	n NotFnd	1.19	*		5240	2.5	24.4	*	0.996-1.006
Tetra	PCB-55	1.60e+06	0.80	y 36:11	1.04	413		*	2.5	*	1.009	1.005-1.015
Tetra	PCB-56/60	1.42e+07	0.72	y 36:43	1.01	3780		*	2.5	*	1.024	1.019-1.029
Tetra	PCB-79	3.34e+06	0.80	y 37:46	1.08	834		*	2.5	*	1.053	1.048-1.058
Tetra	PCB-78	*	*	n NotFnd	1.27	*		5240	2.5	31.0	*	0.982-0.992
Tetra	PCB-81	1.12e+06	0.66	y 38:59	1.33	276		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-77	6.95e+06	0.77	y 39:35	1.10	2040		*	2.5	*	1.000	0.995-1.005
Penta	PCB-104	*	*	n NotFnd	1.18	*		1970	2.5	19.5	*	0.996-1.006
Penta	PCB-96	*	*	n NotFnd	1.14	*		1970	2.5	20.3	*	1.034-1.044
Penta	PCB-103	8.74e+05	1.49	y 34:24	0.96	355		*	2.5	*	1.054	1.050-1.060
Penta	PCB-100	2.30e+05	1.92	n 34:46	0.94	95.2	R	*	2.5	*	1.065	1.061-1.071
Penta	PCB-94	5.39e+05	1.62	y 35:14	1.06	240		*	2.5	*	0.986	0.980-0.990
Penta	PCB-95/98/102	1.70e+08	1.55	y 35:46	1.22	65200		*	2.5	*	1.000	0.995-1.005
Penta	PCB-93	*	*	n NotFnd	0.84	*		1970	2.5	33.5	*	0.997-1.007
Penta	PCB-88/91	2.19e+07	1.53	y 36:11	1.12	9260		*	2.5	*	1.012	1.005-1.015
Penta	PCB-121	*	*	n NotFnd	1.62	*		1970	2.5	17.5	*	1.009-1.019
Penta	PCB-84/92	8.20e+07	1.57	y 37:04	1.05	35200		*	2.5	*	0.990	0.985-0.995
Penta	PCB-89	9.10e+05	1.33	y 37:16	1.13	362		*	2.5	*	0.996	0.991-1.001

Analyst: DMS

Date: 10/30/14

Client ID: CC-CB-04-20141013-S Filename: 141024E2 S:8 Acq:25-OCT-14 09:35:32 ConCal: ST141024E2-1
Lab ID: 1400762-04@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:10.006 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Penta	PCB-90/101	2.43e+08	1.55	y 37:27	1.10	98900		*	2.5	*	1.000	0.995-1.005
Penta	PCB-113	*	*	n NotF	1.41	*		1970	2.5	20.0	*	1.002-1.012
Penta	PCB-99	8.11e+07	1.56	y 37:46	1.34	27200		*	2.5	*	1.009	1.004-1.014
Penta	PCB-119	3.46e+06	1.58	y 38:15	1.53	1220		*	2.5	*	0.988	0.982-0.992
Penta	PCB-108/112	9.36e+06	1.52	y 38:25	1.28	3940		*	2.5	*	0.992	0.986-0.996
Penta	PCB-83	*	*	n NotF	1.52	*		1970	2.5	22.7	*	0.990-1.000
Penta	PCB-97	6.11e+07	1.57	y 38:45	1.18	27900		*	2.5	*	1.000	0.995-1.005
Penta	PCB-86	2.68e+05	1.39	y 38:54	0.84	171		*	2.5	*	1.004	0.999-1.009
Penta	PCB-87/117/125	1.05e+08	1.57	y 39:02	1.55	36500		*	2.5	*	1.008	1.002-1.012
Penta	PCB-111/115	4.39e+06	1.49	y 39:12	1.63	1450		*	2.5	*	1.012	1.006-1.016
Penta	PCB-85/116	3.02e+07	1.55	y 39:18	1.30	12500		*	2.5	*	1.015	1.010-1.020
Penta	PCB-120	6.85e+05	1.50	y 39:31	1.68	220		*	2.5	*	1.020	1.016-1.026
Penta	PCB-110	2.97e+08	1.54	y 39:42	1.56	103000		*	2.5	*	1.025	1.020-1.030
Penta	PCB-82	1.92e+07	1.59	y 40:20	0.76	9840		*	2.5	*	0.976	0.971-0.981
Penta	PCB-124	1.29e+07	1.55	y 41:01	1.47	3420		*	2.5	*	0.993	0.988-0.998
Penta	PCB-107/109	1.63e+07	1.54	y 41:11	1.32	4810		*	2.5	*	0.997	0.991-1.001
Penta	PCB-123	3.13e+06	1.59	y 41:20	1.17	1050		*	2.5	*	1.000	0.996-1.006
Penta	PCB-106/118	2.51e+08	1.57	y 41:30	1.17	84400		*	2.5	*	1.000	0.996-1.006
Penta	PCB-114	6.58e+06	1.61	y 42:10	1.30	1970		*	2.5	*	1.000	0.995-1.005
Penta	PCB-122	2.68e+06	1.72	y 42:18	1.12	926		*	2.5	*	1.003	0.999-1.009
Penta	PCB-105	9.92e+07	1.63	y 43:03	1.30	31000		*	2.5	*	1.000	0.995-1.005
Penta	PCB-127	*	*	n NotF	1.33	*		8740	2.5	84.9	*	0.996-1.006
Penta	PCB-126	2.33e+06	1.59	y 45:19	1.18	895		*	2.5	*	1.001	0.995-1.005
Hexa	PCB-155	*	*	n NotF	1.11	*		1680	2.5	14.7	*	0.966-1.006
Hexa	PCB-150	2.96e+05	1.18	y 38:16	1.00	115		*	2.5	*	1.035	1.030-1.040
Hexa	PCB-152	2.58e+05	1.10	y 38:44	1.12	89.9		*	2.5	*	1.047	1.043-1.053
Hexa	PCB-145	1.25e+05	1.16	y 39:12	1.20	40.4		*	2.5	*	1.060	1.055-1.065
Hexa	PCB-136	3.25e+07	1.28	y 39:31	1.18	10700		*	2.5	*	1.068	1.064-1.074
Hexa	PCB-148	*	*	n NotF	0.74	*		1680	2.5	21.9	*	1.066-1.076
Hexa	PCB-154	1.63e+06	1.26	y 40:06	0.86	738		*	2.5	*	1.084	1.080-1.090
Hexa	PCB-151	3.89e+07	1.23	y 40:45	0.75	20200		*	2.5	*	1.102	1.097-1.107
Hexa	PCB-135	2.30e+07	1.26	y 40:57	0.79	11300		*	2.5	*	1.107	1.103-1.113
Hexa	PCB-144	1.02e+07	1.24	y 41:04	0.76	5170		*	2.5	*	1.110	1.105-1.117
Hexa	PCB-147	3.79e+06	1.24	y 41:12	0.82	1800		*	2.5	*	1.114	1.109-1.121
Hexa	PCB-139/149	1.54e+08	1.26	y 41:27	0.76	78300		*	2.5	*	1.121	1.116-1.128
Hexa	PCB-140	8.79e+05	1.27	y 41:39	0.72	473		*	2.5	*	1.126	1.121-1.133
Hexa	PCB-134/143	1.32e+07	1.21	y 42:07	0.92	6160		*	2.5	*	0.976	0.970-0.980

Analyst: DMS

Date: 10/30/14

Client ID: CC-CB-04-20141013-S Filename: 141024E2 S:8 Acq:25-OCT-14 09:35:32 ConCal: ST141024E2-1
Lab ID: 1400762-04@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:10.006 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	6.69e+06	1.23	y	42:24	0.82	3490		*	2.5	*	0.982	0.977	0.987
Hexa	PCB-131	5.25e+04	1.90	n	42:33	0.91	24.7	R	*	2.5	*	0.986	0.981	0.991
Hexa	PCB-146/165	3.36e+07	1.23	y	42:47	1.25	11500		*	2.5	*	0.991	0.986	0.996
Hexa	PCB-132/161	8.12e+07	1.21	y	43:04	1.10	31400		*	2.5	*	0.998	0.992	1.002
Hexa	PCB-153	2.30e+08	1.22	y	43:11	1.25	78600		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-168	3.28e+05	1.20	y	43:24	1.45	96.8		*	2.5	*	1.005	1.001	1.011
Hexa	PCB-141	4.83e+07	1.22	y	43:56	1.09	20400		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-137	1.41e+07	1.23	y	44:20	1.06	6070		*	2.5	*	1.009	1.004	1.014
Hexa	PCB-130	1.46e+07	1.24	y	44:25	0.96	6950		*	2.5	*	1.011	1.006	1.016
Hexa	PCB-138/163/164	2.83e+08	1.23	y	44:48	1.29	99700		*	2.5	*	1.001	0.996	1.006
Hexa	PCB-158/160	3.82e+07	1.21	y	45:02	1.34	12900		*	2.5	*	1.006	1.001	1.011
Hexa	PCB-129	1.21e+07	1.25	y	45:17	0.85	6470		*	2.5	*	1.012	1.007	1.017
Hexa	PCB-166	1.45e+06	1.27	y	45:46	1.19	488		*	2.5	*	0.993	0.988	0.998
Hexa	PCB-159	*	*	n	NotF	1.11	*		19400	2.5	195	*	0.996	1.006
Hexa	PCB-128/162	4.40e+07	1.21	y	46:22	1.05	16800		*	2.5	*	1.007	1.002	1.012
Hexa	PCB-167	1.33e+07	1.26	y	46:46	1.20	4050		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-156	3.32e+07	1.23	y	48:05	1.14	11100		*	2.5	*	1.000	0.996	1.006
Hexa	PCB-157	7.34e+06	1.29	y	48:21	1.16	2280		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-169	*	*	n	NotF	1.12	*		19400	2.5	216	*	0.995	1.005
Hepta	PCB-188	1.66e+05	1.16	y	42:49	1.58	50.5		*	2.5	*	1.000	0.996	1.006
Hepta	PCB-184	7.07e+04	0.92	y	43:16	1.63	20.8		*	2.5	*	1.011	1.006	1.016
Hepta	PCB-179	2.77e+07	1.04	y	44:03	1.30	10200		*	2.5	*	1.029	1.024	1.034
Hepta	PCB-176	8.24e+06	1.08	y	44:31	1.48	2680		*	2.5	*	1.040	1.035	1.045
Hepta	PCB-186	*	*	n	NotF	1.45	*		3040	2.5	17.0	*	1.050	1.060
Hepta	PCB-178	9.13e+06	1.03	y	45:38	1.03	4240		*	2.5	*	1.066	1.061	1.071
Hepta	PCB-175	1.92e+06	1.09	y	45:59	1.01	908		*	2.5	*	1.074	1.069	1.079
Hepta	PCB-182/187	6.29e+07	1.06	y	46:08	1.25	24100		*	2.5	*	1.078	1.073	1.083
Hepta	PCB-183	2.76e+07	1.05	y	46:29	1.21	11000		*	2.5	*	1.086	1.081	1.091
Hepta	PCB-185	5.96e+06	1.05	y	47:08	1.80	2410		*	2.5	*	0.955	0.951	0.961
Hepta	PCB-174	4.58e+07	1.06	y	47:30	1.38	24200		*	2.5	*	0.963	0.958	0.968
Hepta	PCB-181	*	*	n	NotF	1.38	*		3040	2.5	28.3	*	0.960	0.970
Hepta	PCB-177	2.38e+07	1.07	y	47:48	1.26	13800		*	2.5	*	0.969	0.963	0.973
Hepta	PCB-171	1.13e+07	1.04	y	48:05	1.58	5200	R	*	2.5	*	0.975	0.970	0.980
Hepta	PCB-173	8.40e+05	1.19	y	48:32	1.11	551		*	2.5	*	0.984	0.978	0.988
Hepta	PCB-172	7.14e+06	1.04	y	48:58	1.63	3180		*	2.5	*	0.993	0.987	0.997
Hepta	PCB-192	*	*	n	NotF	1.74	*		3040	2.5	22.4	*	0.991	1.001
Hepta	PCB-180	1.04e+08	1.05	y	49:21	1.34	56000	R	*	2.5	*	1.000	0.995	1.005

Analyst: DMS

Date: 10/30/14

Client ID: CC-CB-04-20141013-S Filename: 141024E2 S:8 Acq:25-OCT-14 09:35:32 ConCal: ST141024E2-1
Lab ID: 1400762-04@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:10.006 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	5.63e+06	1.06	y 49:32	1.72	2390		*	2.5	*	1.004	0.999	1.009
Hepta	PCB-191	2.09e+06	1.04	y 49:46	1.69	900		*	2.5	*	1.009	1.004	1.014
Hepta	PCB-170	3.69e+07	1.06	y 50:43	1.60	19900		*	2.5	*	1.000	0.995	1.005
Hepta	PCB-190	9.79e+06	1.08	y 50:53	2.21	3820		*	2.5	*	1.003	0.998	1.008
Hepta	PCB-189	1.76e+06	1.05	y 52:10	1.55	822		*	2.5	*	1.000	0.995	1.005
Octa	PCB-202	6.56e+06	0.89	y 48:17	1.08	2820		*	2.5	*	1.001	0.995	1.005
Octa	PCB-201	3.97e+06	0.86	y 48:47	1.15	1610		*	2.5	*	1.011	1.005	1.015
Octa	PCB-204	*	*	n NotFnd	1.14	*		2640	2.5	26.9	*	1.008	1.018
Octa	PCB-197	9.09e+05	0.90	y 49:13	1.07	394		*	2.5	*	1.020	1.015	1.025
Octa	PCB-200	3.49e+06	0.89	y 50:02	1.06	1530		*	2.5	*	1.037	1.032	1.044
Octa	PCB-198	6.67e+05	0.88	y 51:15	0.76	411		*	2.5	*	1.062	1.059	1.069
Octa	PCB-199	2.04e+07	0.92	y 51:22	0.80	11900		*	2.5	*	1.065	1.061	1.071
Octa	PCB-196/203	2.21e+07	0.91	y 51:38	0.80	12800		*	2.5	*	1.070	1.066	1.076
Octa	PCB-195	7.16e+06	0.91	y 52:46	1.23	4310		*	2.5	*	0.983	0.979	0.989
Octa	PCB-194	1.93e+07	0.91	y 53:42	1.21	11800		*	2.5	*	1.000	0.995	1.005
Octa	PCB-205	9.49e+05	0.92	y 54:01	1.54	455		*	2.5	*	1.006	1.001	1.011
Nona	PCB-208	2.24e+06	1.35	y 52:54	0.93	1370		*	2.5	*	1.000	0.995	1.005
Nona	PCB-207	1.24e+06	1.41	y 53:14	1.08	652		*	2.5	*	1.007	1.001	1.011
Nona	PCB-206	5.20e+06	1.36	y 55:29	1.02	4330		*	2.5	*	1.001	0.995	1.005
Deca	PCB-209	5.08e+05	1.31	y 56:46	1.17	381		*	2.5	*	1.000	0.995	1.005

Analyst: DMS

Date: 10/30/14

Client ID: CC-CB-04-20141013-S Filename: 141024E2 S:8 Acq:25-OCT-14 09:35:32 ConCal: ST141024E2-1
Lab ID: 1400762-04@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 10.0056 EndCAL: NA

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	1.40e+06	3.05	y	16:28	1.27	212.388	
Total Di-PCB	1.65e+07	1.71	y	20:15	1.21	3493.99	
Total Tri-PCB	5.69e+06	1.16	y	24:18	1.10	1513.38	
Total Tri-PCB	1.63e+07	1.12	y	28:16	1.21	3993.19	Sum:5506.57
Total Tetra-PCB	3.57e+08	0.72	y	29:46	1.09	105513	
Total Penta-PCB	1.41e+09	1.49	y	34:24	1.18	527089	
Total Penta-PCB	1.11e+08	1.61	y	42:10	1.25	34739.9	Sum:561829
Total Hexa-PCB	2.65e+08	1.18	y	38:16	0.90	128958	
Total Hexa-PCB	8.74e+08	1.21	y	42:07	1.11	318495	Sum:447453
Total Hepta-PCB	3.92e+08	1.16	y	42:49	1.42	186420	
Total Octa-PCB	5.80e+07	0.89	y	48:17	0.96	31432.4	
Total Octa-PCB	2.74e+07	0.91	y	52:46	1.33	16547.9	Sum:47980.3
Total Nona-PCB	8.68e+06	1.35	y	52:54	1.01	6356.85	
Total Deca-PCB	5.08e+05	1.31	y	56:46	1.17	380.760	

Total PCB Conc:1365383.71999

Integrations by Analyst: DMJ

Date: 10/30/14

Client ID: CC-CB-04-20141013-S Filename: 141024E2 S:8 Acq:25-OCT-14 09:35:32 ConCal: ST141024E2-1
Lab ID: 1400762-04@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:10.00 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	5.25e+06	2.74 y	0.87	16:27	0.634	0.629	0.635	1210	121
13C-PCB-3	5.03e+06	3.17 y	0.91	18:57	0.730	0.725	0.733	1110	111
13C-PCB-4	2.57e+06	1.70 y	0.59	20:15	0.780	0.775	0.783	879	88.0
13C-PCB-9	4.09e+06	1.65 y	0.90	21:58	0.846	0.842	0.850	916	91.6
13C-PCB-11	4.25e+06	1.62 y	0.94	25:16	0.973	0.968	0.978	908	90.9
13C-PCB-19	3.10e+06	1.12 y	0.53	24:16	0.935	0.930	0.940	1170	117
13C-PCB-28	3.16e+06	0.93 y	0.93	29:04	1.004	0.999	1.009	777	77.8
13C-PCB-32	4.35e+06	1.06 y	0.80	27:08	1.045	1.040	1.050	1100	110
13C-PCB-37	3.02e+06	1.05 y	0.84	32:59	1.139	1.131	1.143	826	82.7
13C-PCB-47	2.92e+06	0.71 y	0.81	31:57	0.870	0.866	0.874	892	89.2
13C-PCB-52	2.68e+06	0.85 y	0.77	31:27	0.857	0.853	0.861	864	86.4
13C-PCB-54	3.43e+06	0.73 y	0.97	27:58	0.762	0.758	0.766	879	88.0
13C-PCB-70	3.72e+06	0.78 y	1.00	35:28	0.966	0.961	0.971	925	92.5
13C-PCB-77	3.09e+06	0.75 y	0.94	39:35	1.078	1.073	1.083	814	81.5
13C-PCB-80	3.71e+06	0.70 y	1.03	35:52	0.977	0.972	0.982	893	89.4
13C-PCB-81	3.05e+06	0.82 y	0.92	38:59	1.062	1.057	1.067	822	82.2
13C-PCB-95	2.12e+06	1.64 y	0.74	35:45	0.913	0.908	0.918	884	88.4
13C-PCB-97	1.86e+06	1.69 y	0.70	38:44	0.989	0.984	0.994	813	81.4
13C-PCB-101	2.23e+06	1.60 y	0.78	37:26	0.956	0.951	0.961	878	87.8
13C-PCB-104	2.57e+06	1.49 y	1.00	32:38	0.833	0.828	0.836	793	79.4
13C-PCB-105	2.47e+06	1.57 y	1.37	43:02	0.928	0.924	0.934	755	75.6
13C-PCB-114	2.58e+06	1.65 y	1.36	42:10	0.910	0.905	0.915	791	79.1
13C-PCB-118	2.54e+06	1.51 y	0.96	41:30	1.060	1.054	1.064	817	81.7
13C-PCB-123	2.56e+06	1.64 y	0.89	41:19	1.055	1.050	1.060	885	88.6
13C-PCB-126	2.20e+06	1.60 y	1.31	45:17	0.977	0.972	0.982	705	70.5
13C-PCB-127	2.39e+06	1.41 y	1.47	43:22	0.936	0.931	0.941	679	67.9
13C-PCB-138	2.20e+06	1.37 y	1.10	44:46	0.966	0.961	0.971	836	83.6
13C-PCB-141	2.18e+06	1.40 y	1.07	43:55	0.948	0.943	0.953	849	84.9
13C-PCB-153	2.34e+06	1.33 y	1.15	43:10	0.931	0.927	0.937	853	85.3
13C-PCB-155	2.57e+06	1.18 y	0.84	36:59	0.944	0.939	0.949	947	94.7
13C-PCB-156	2.63e+06	1.29 y	1.30	48:04	1.037	1.032	1.042	847	84.7
13C-PCB-157	2.77e+06	1.24 y	1.36	48:20	1.043	1.038	1.048	853	85.3
13C-PCB-159	2.50e+06	1.13 y	1.25	46:04	0.994	0.989	0.999	839	84.0
13C-PCB-167	2.73e+06	1.33 y	1.35	46:45	1.009	1.004	1.014	844	84.4
13C-PCB-169	2.46e+06	1.30 y	1.29	50:23	1.087	1.083	1.093	801	80.2
13C-PCB-170	1.16e+06	0.49 y	0.54	50:43	1.094	1.089	1.101	893	89.4
13C-PCB-180	1.37e+06	0.44 y	0.68	49:20	1.064	1.060	1.070	840	84.0
13C-PCB-188	2.08e+06	0.40 y	0.92	42:48	0.923	0.919	0.929	949	95.0
13C-PCB-189	1.38e+06	0.45 y	0.72	52:09	1.125	1.120	1.132	806	80.7
13C-PCB-194	1.35e+06	1.00 y	0.80	53:42	0.994	0.990	1.000	824	82.4
13C-PCB-202	2.15e+06	0.90 y	0.84	48:15	1.041	1.036	1.046	1070	107
13C-PCB-206	1.17e+06	0.67 y	0.65	55:27	1.027	1.021	1.031	875	87.6
13C-PCB-208	1.75e+06	0.78 y	1.08	52:53	0.979	0.976	0.986	787	78.7
13C-PCB-209	1.14e+06	1.33 y	0.61	56:45	1.051	1.045	1.055	905	90.6

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	3.53e+06	0.77 y	1.02	37:45	1.028	1.023	1.034	863	86.4
13C-PCB-178	1.30e+06	0.42 y	0.61	45:37	0.984	0.979	0.990	883	88.4

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	3.53e+06	0.77 y	1.10	37:45	0.968	0.964	0.974	1050	105
13C-PCB-178	1.30e+06	0.42 y	0.90	45:37	0.925	0.920	0.930	1050	105

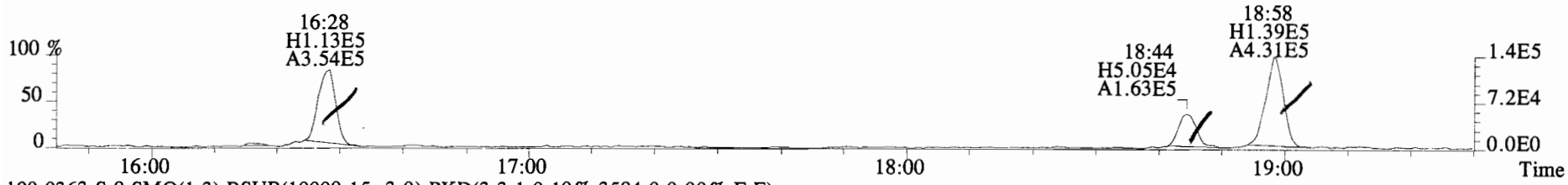
RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	4.98e+06	1.66	y	1.00	25:58	999
13C-PCB-31	4.35e+06	1.14	y	1.00	28:57	999
13C-PCB-60	4.02e+06	0.82	y	1.00	36:43	999
13C-PCB-111	3.24e+06	1.73	y	1.00	39:10	999
13C-PCB-128	2.39e+06	1.23	y	1.00	46:21	999
13C-PCB-205	2.06e+06	0.95	y	1.00	54:00	999

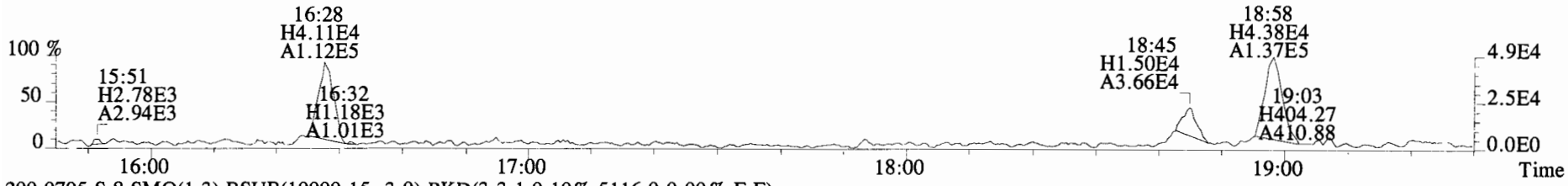
Analyst: DMS

Date: 10/30/14

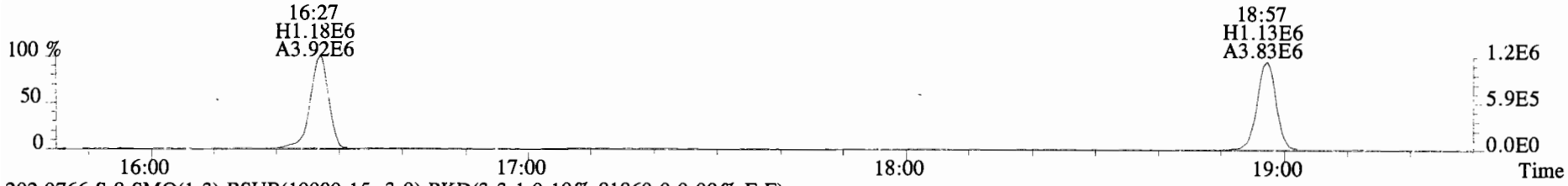
File:141024E2 #1-728 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
188.0393 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2920.0,0.00%,F,F)



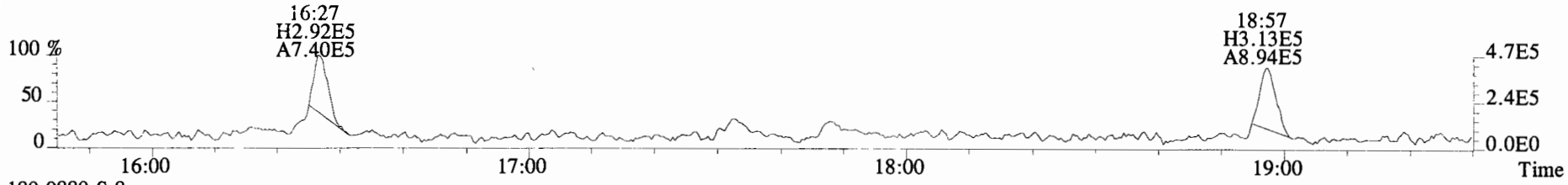
190.0363 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3584.0,0.00%,F,F)



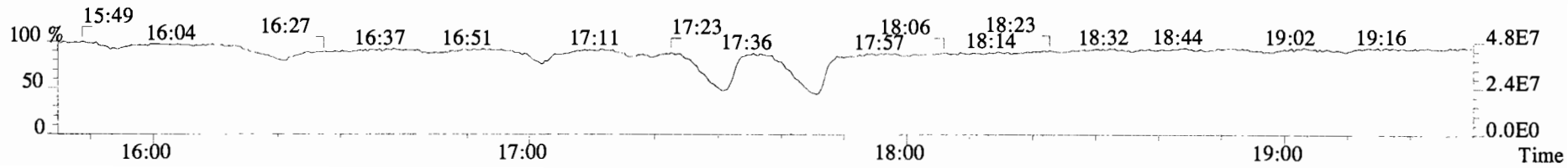
200.0795 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5116.0,0.00%,F,F)



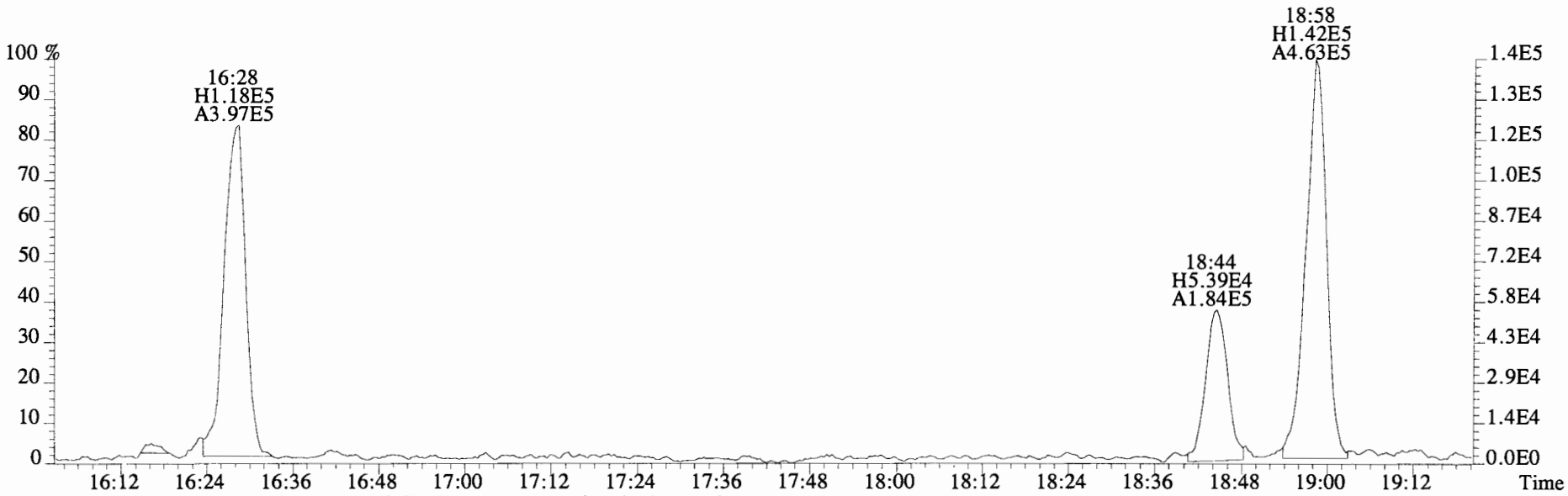
202.0766 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,81860.0,0.00%,F,F)



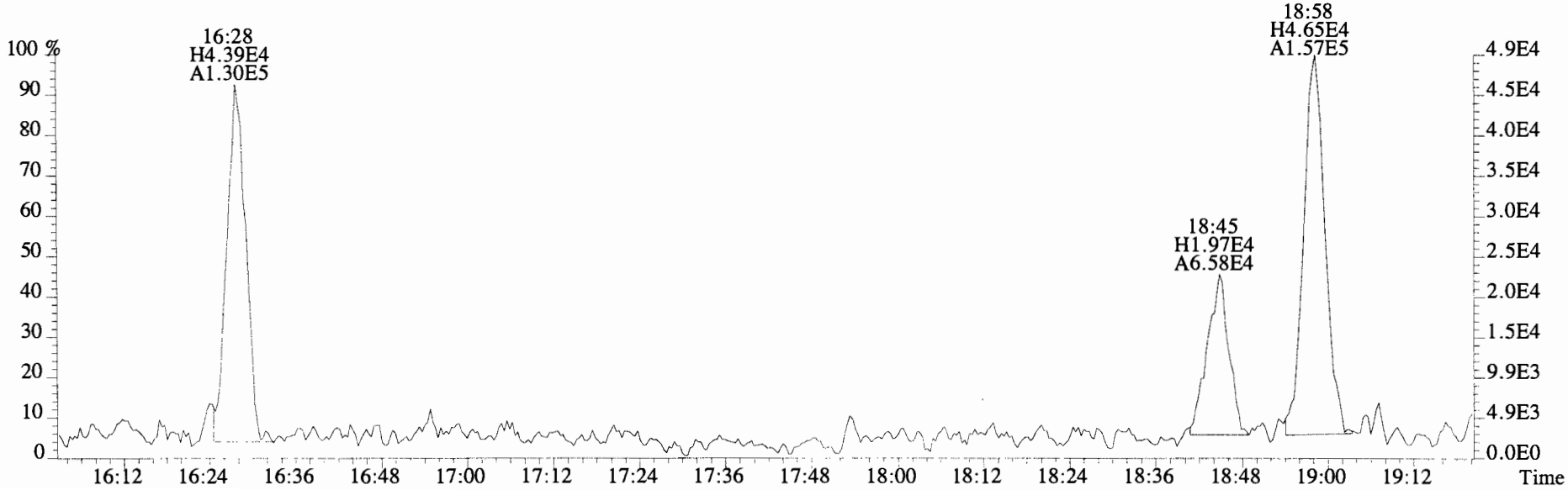
180.9880 S:8



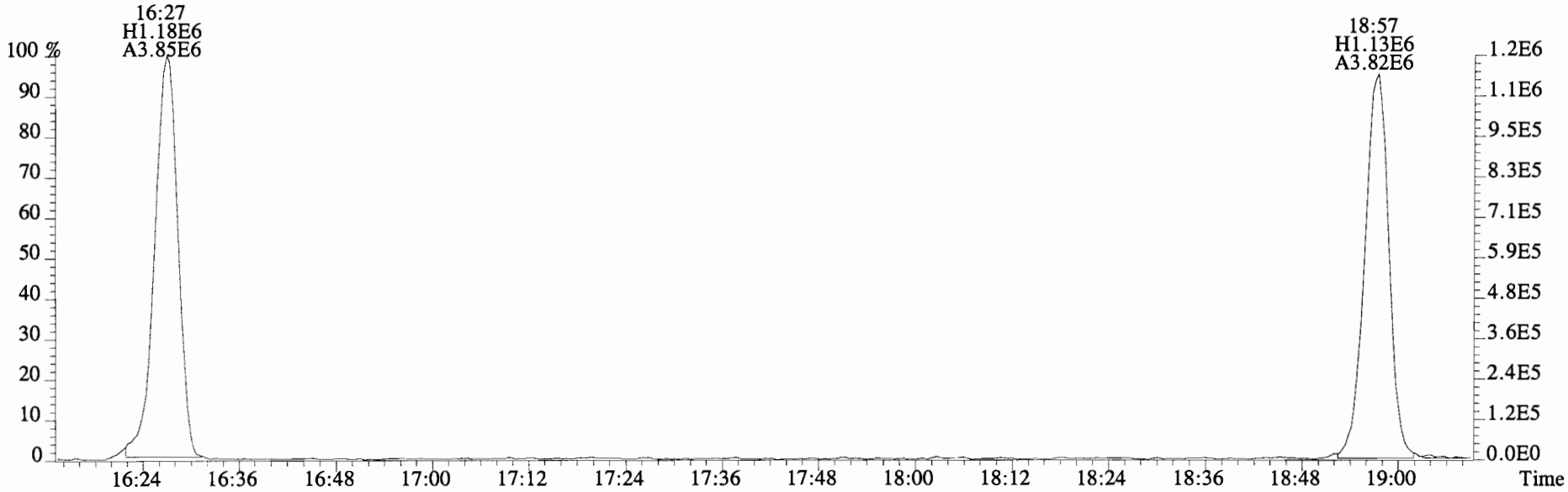
File:141024E2 #1-728 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
188.0393 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2920.0,0.00%,F,F)



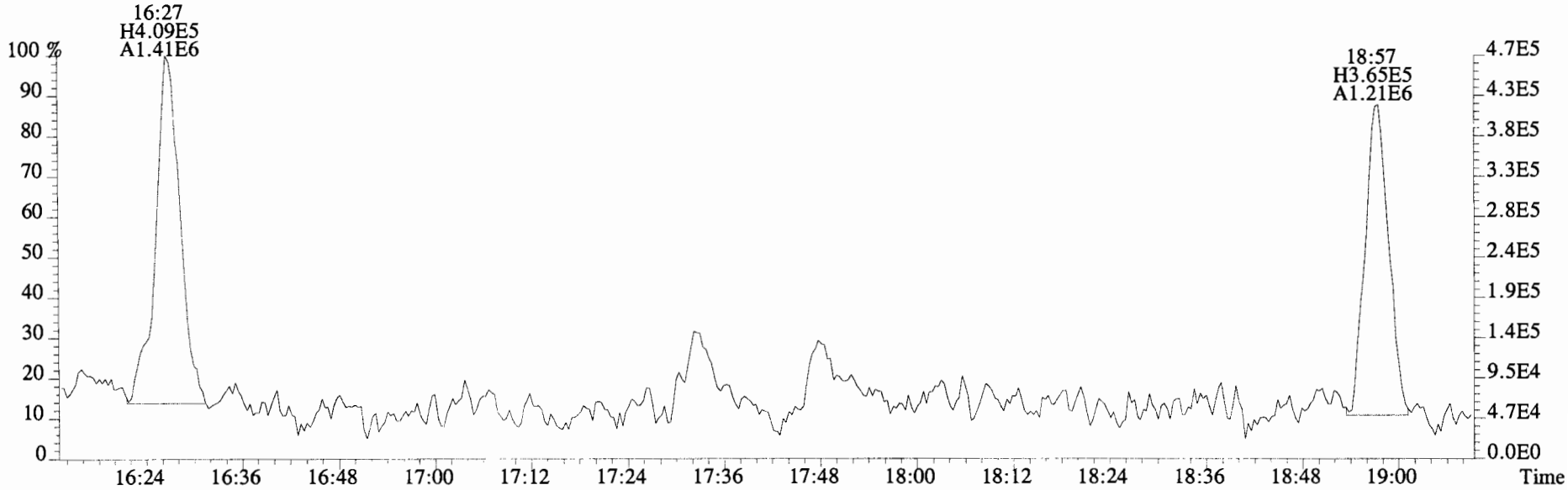
190.0363 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3584.0,0.00%,F,F)



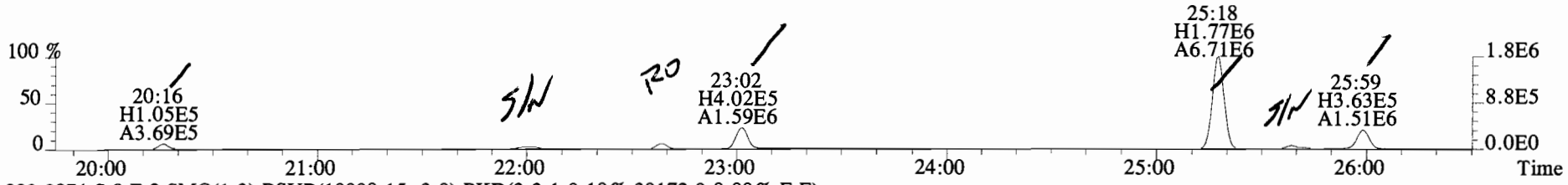
File:141024E2 #1-728 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
200.0795 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5116.0,0.00%,F,F)



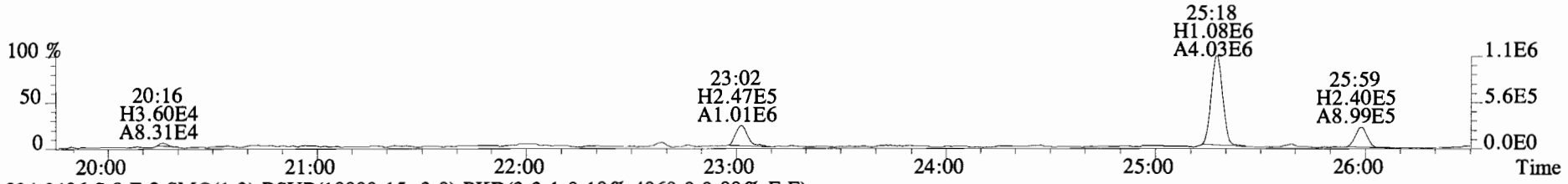
202.0766 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,81860.0,0.00%,F,F)



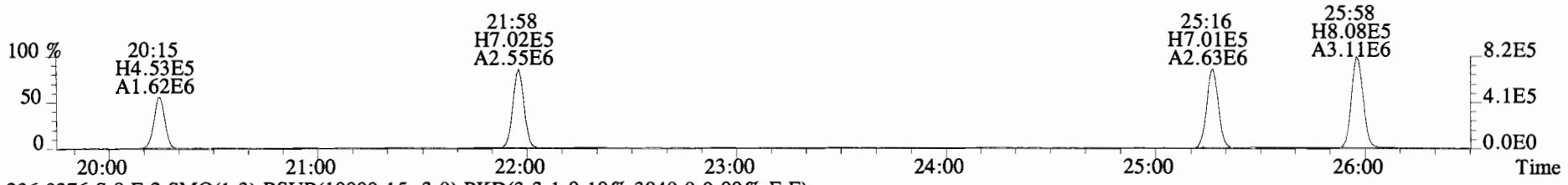
File:141024E2 #1-758 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2832.0,0.00%,F,F)



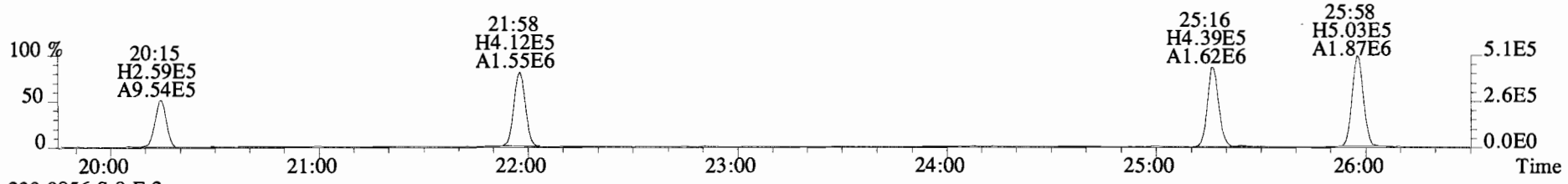
223.9974 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30172.0,0.00%,F,F)



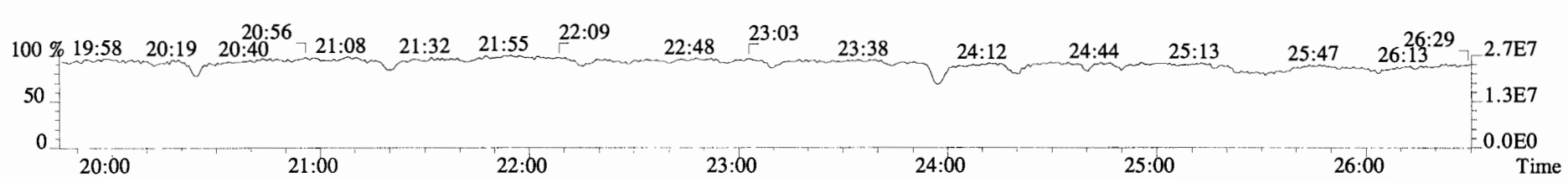
234.0406 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4060.0,0.00%,F,F)



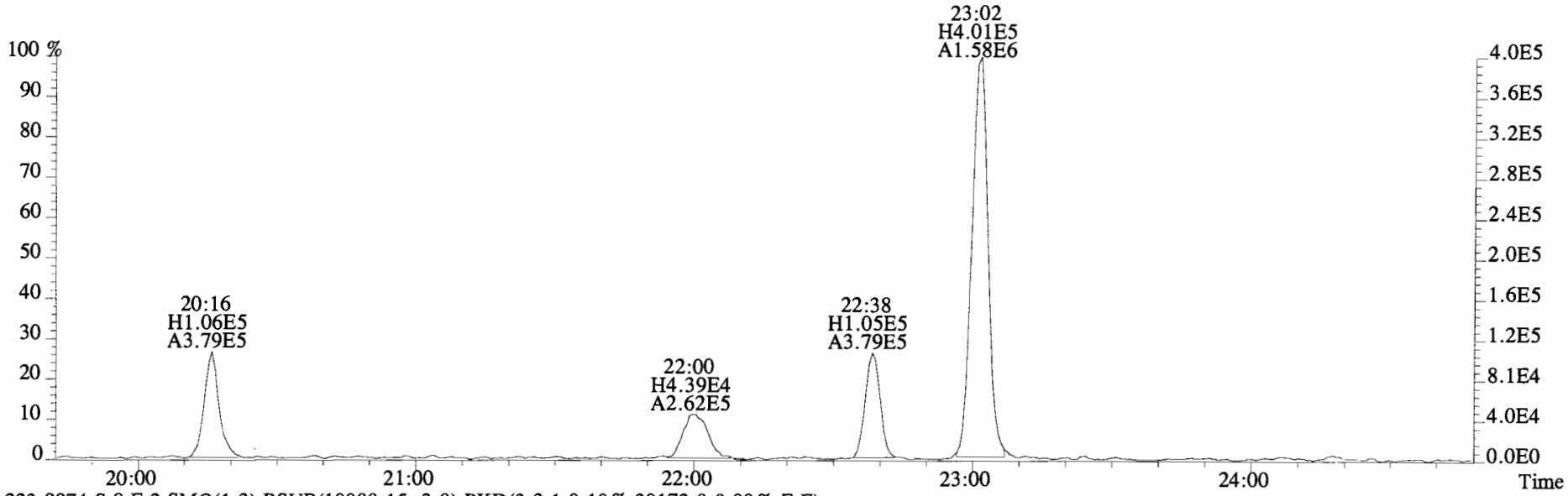
236.0376 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3940.0,0.00%,F,F)



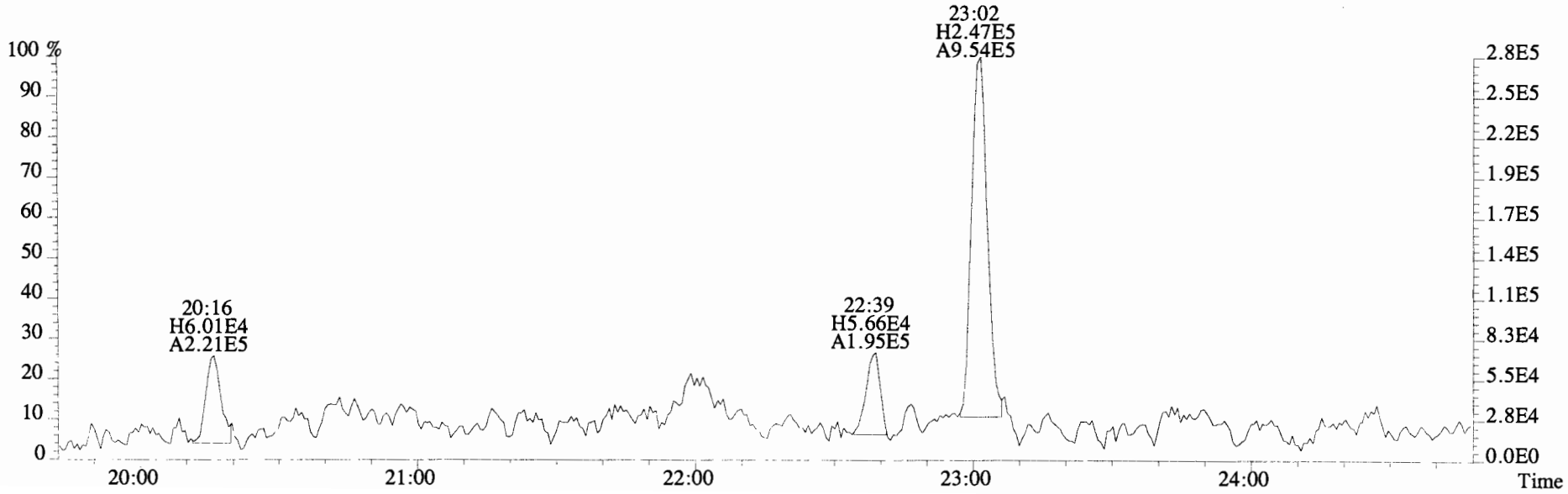
230.9856 S:8 F:2



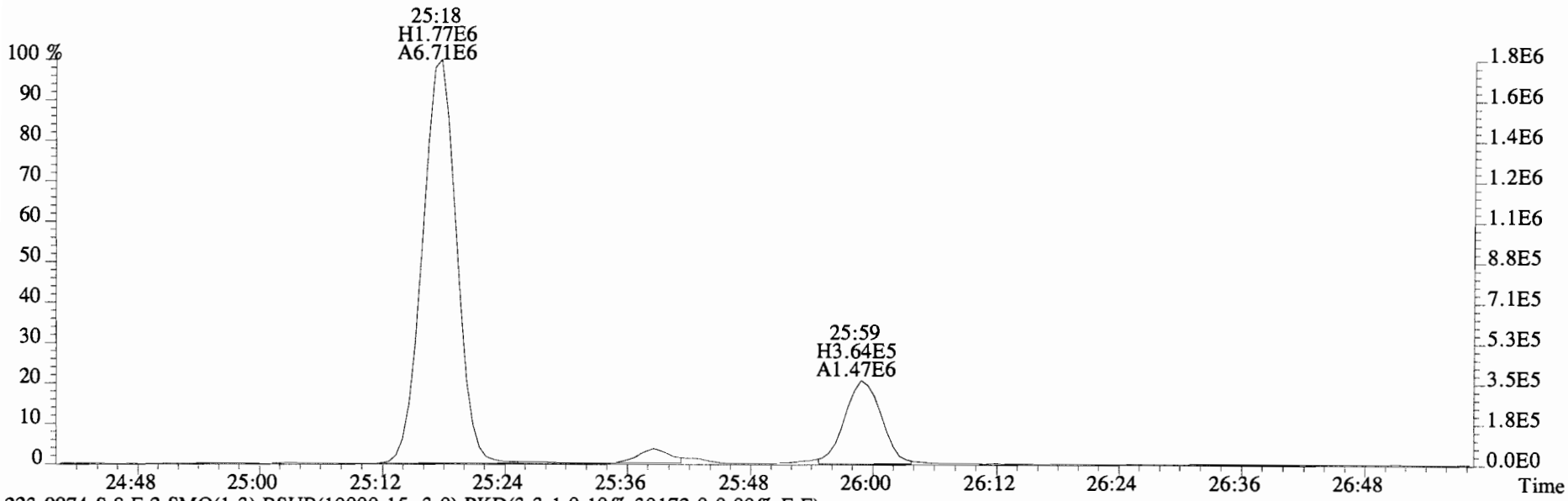
File:141024E2 #1-758 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2832.0,0.00%,F,F)



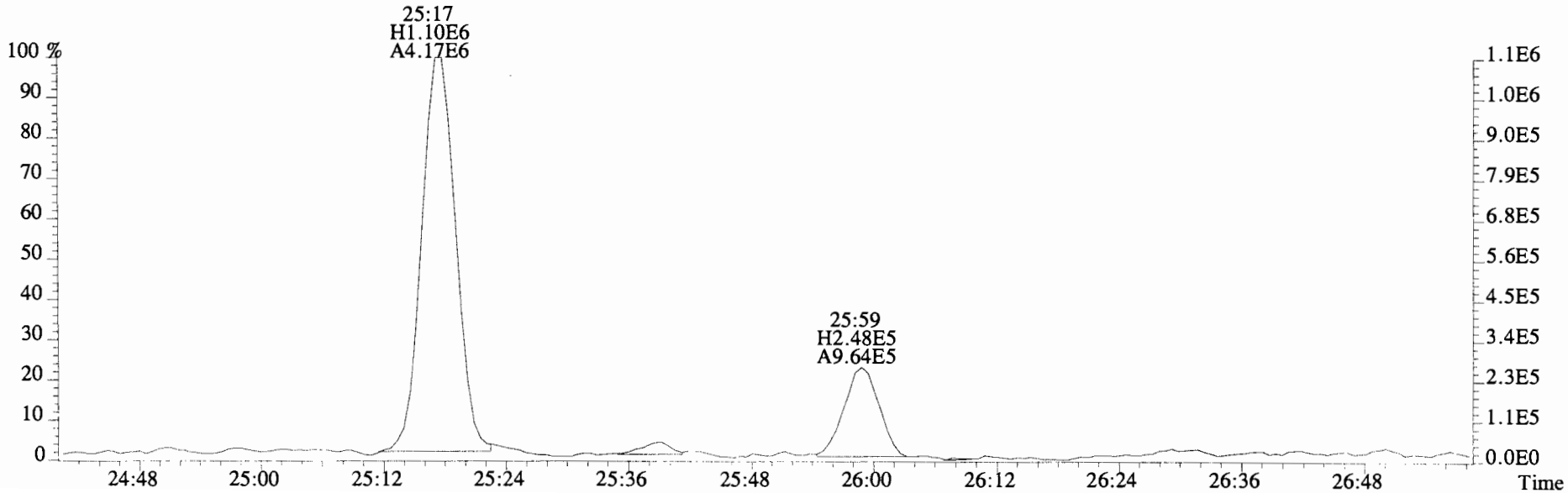
223.9974 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30172.0,0.00%,F,F)



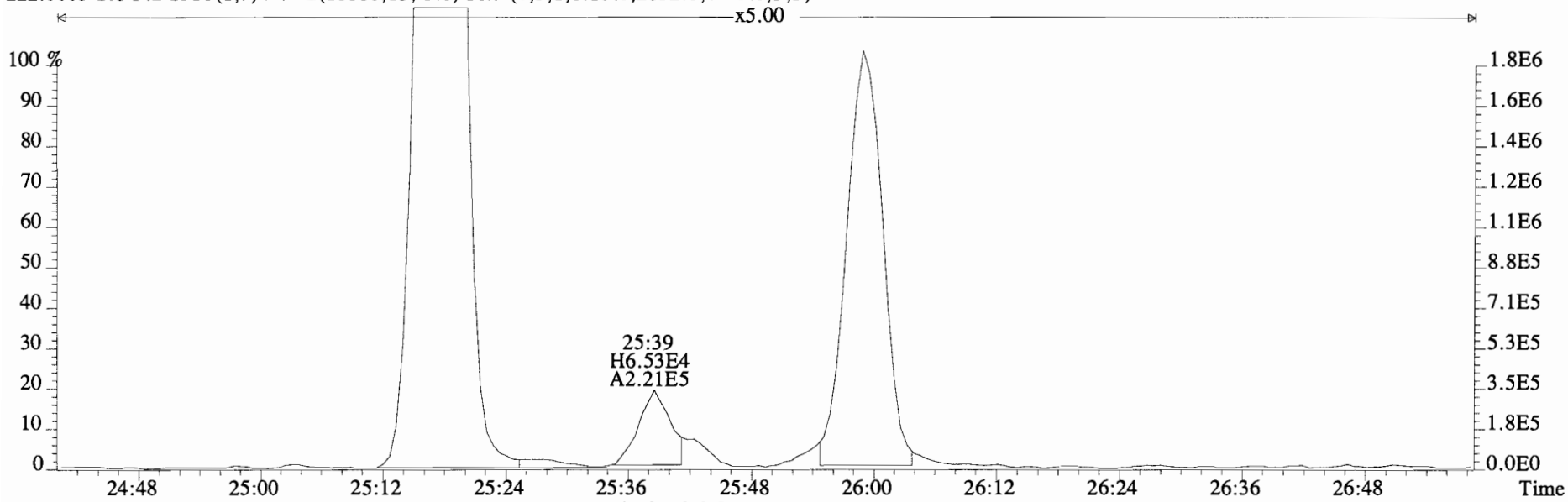
File:141024E2 #1-758 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2832.0,0.00%,F,F)



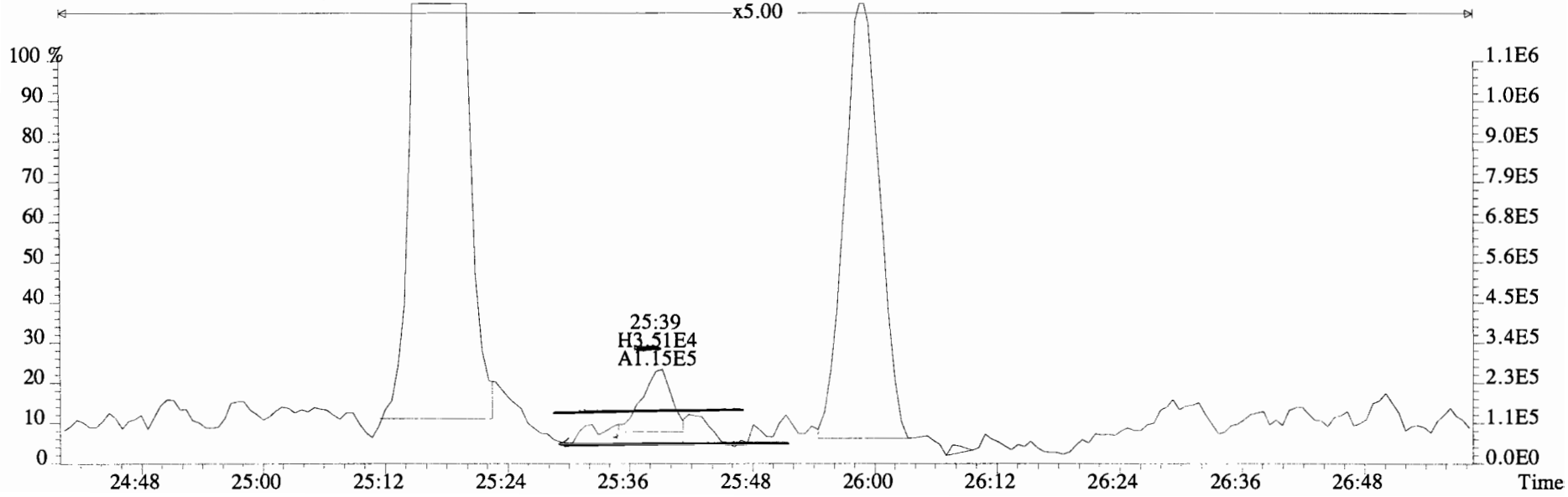
223.9974 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30172.0,0.00%,F,F)



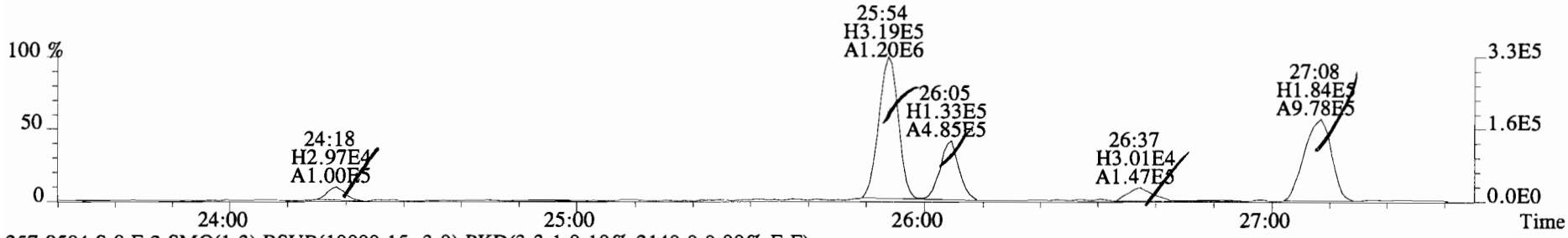
File:141024E2 #1-758 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2832.0,0.00%,F,F)



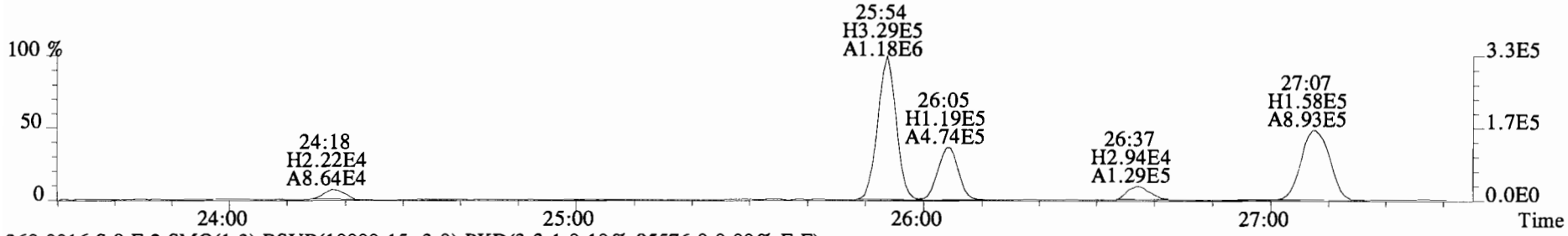
223.9974 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30172.0,0.00%,F,F)



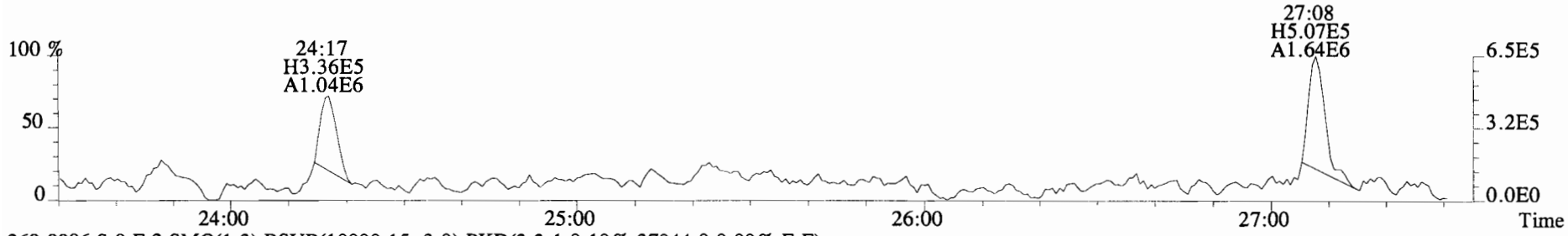
File:141024E2 #1-758 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
255.9613 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3580.0,0.00%,F,F)



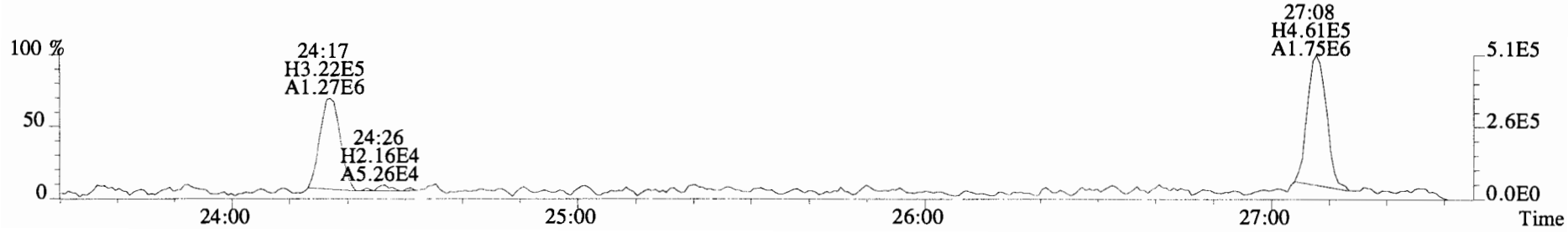
257.9584 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2140.0,0.00%,F,F)



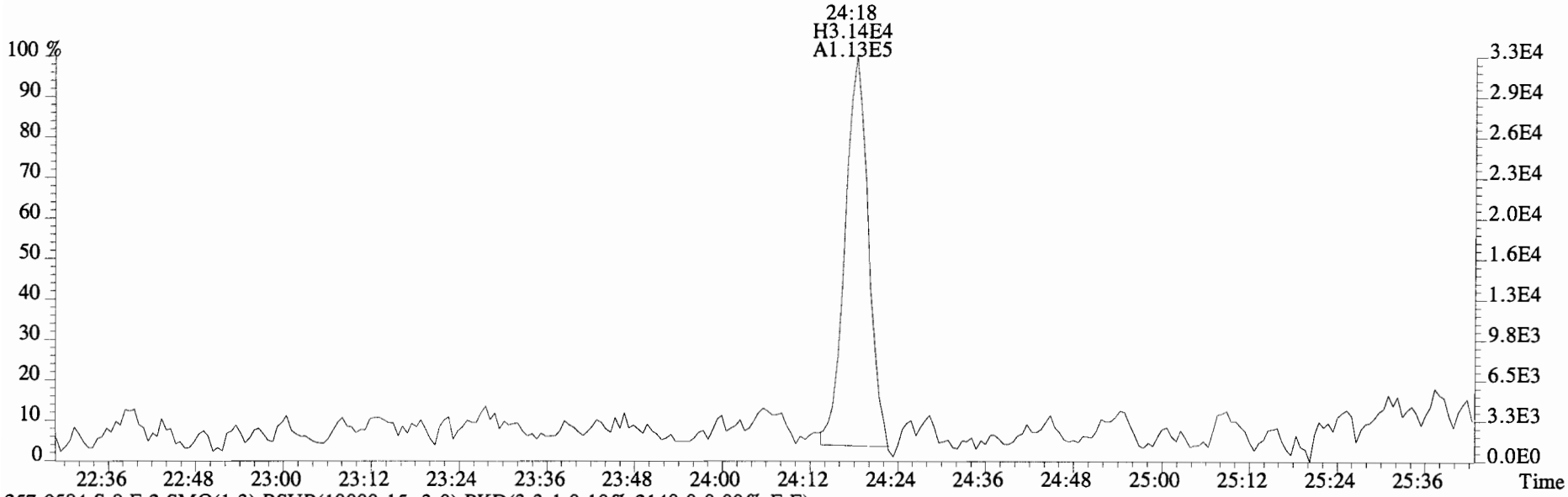
268.0016 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,95576.0,0.00%,F,F)



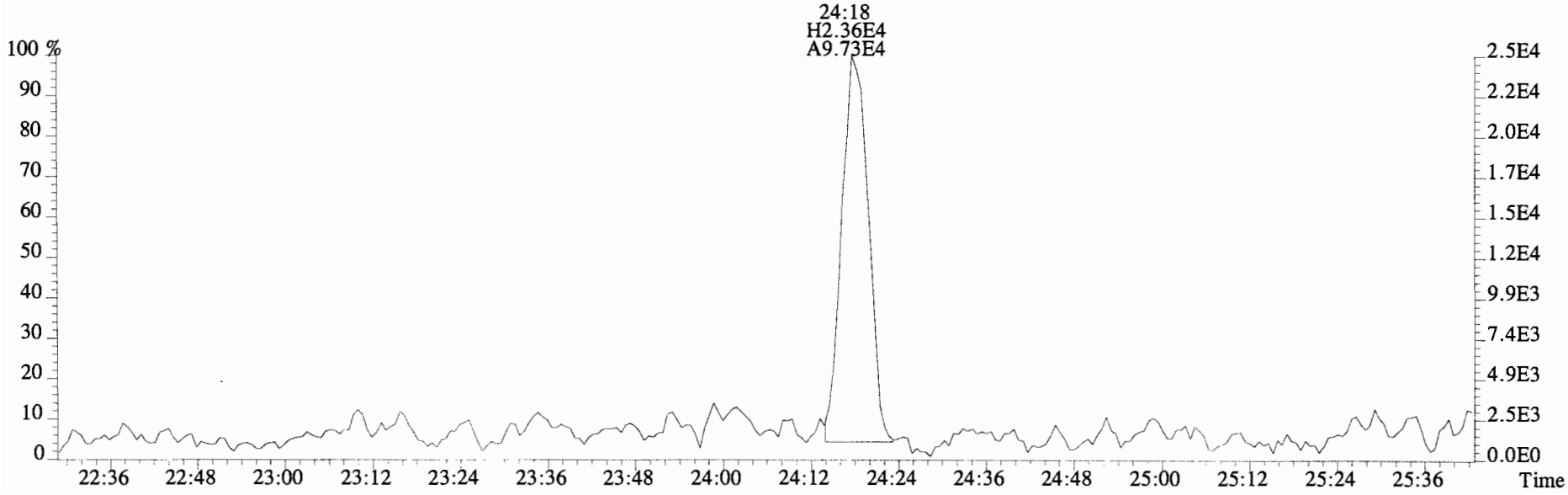
269.9986 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,37044.0,0.00%,F,F)



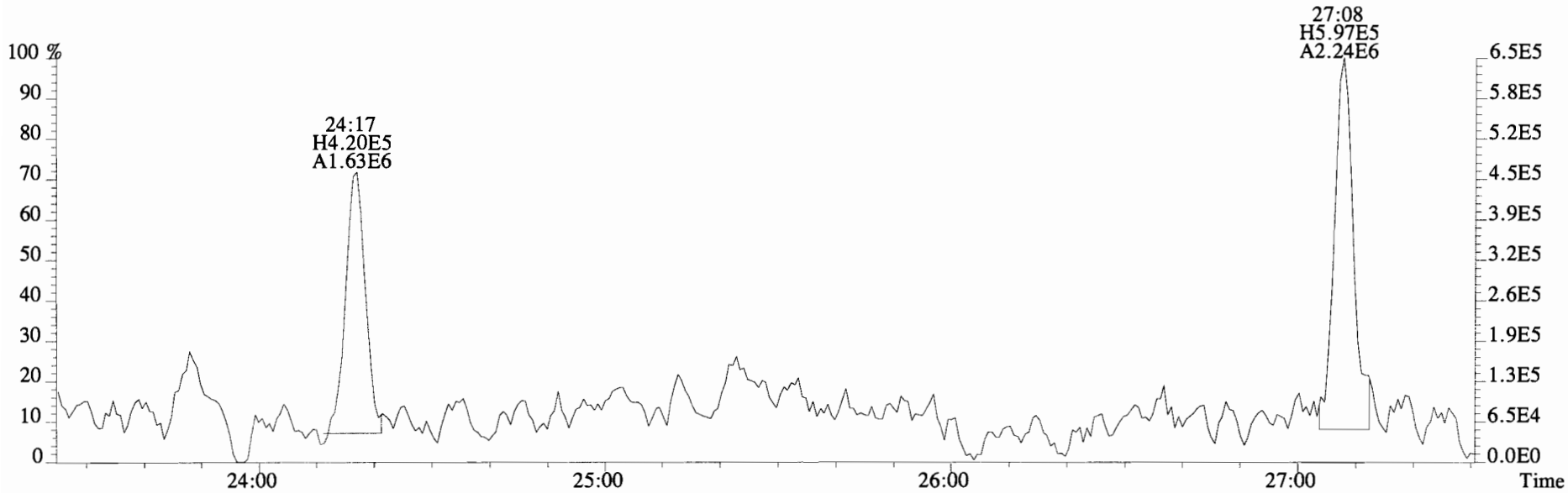
File:141024E2 #1-758 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
255.9613 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3580.0,0.00%,F,F)



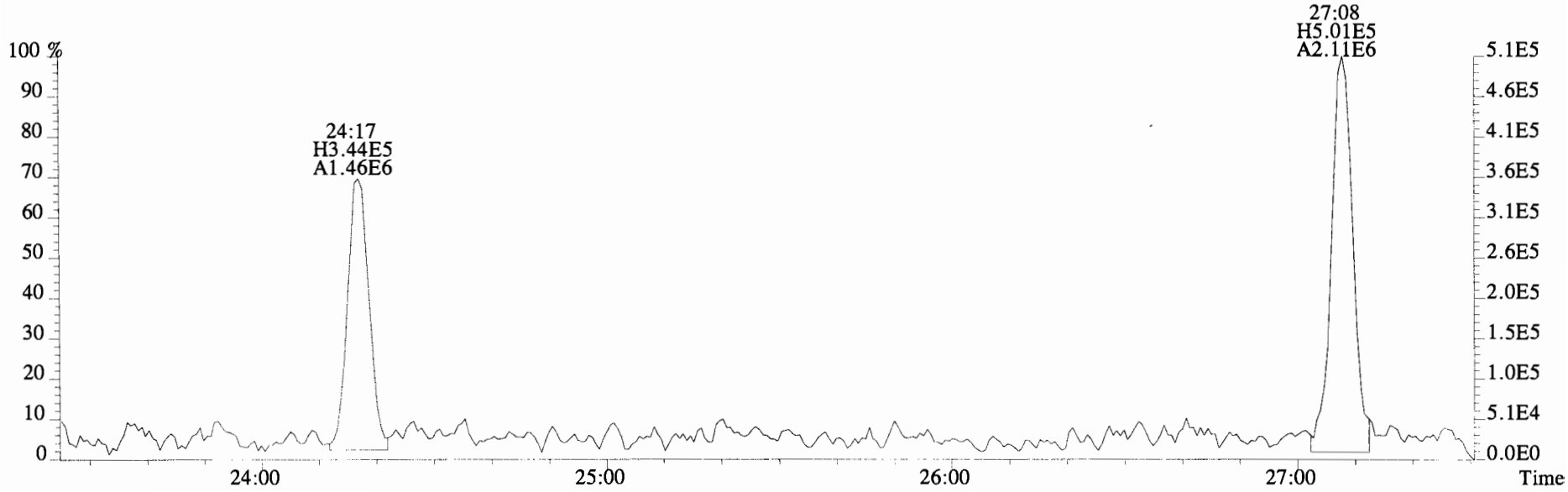
257.9584 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2140.0,0.00%,F,F)



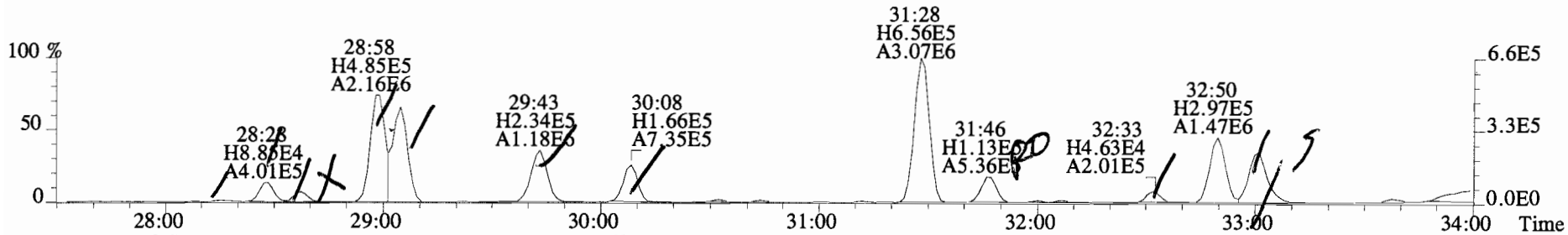
File:141024E2 #1-758 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
268.0016 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,95576.0,0.00%,F,F)



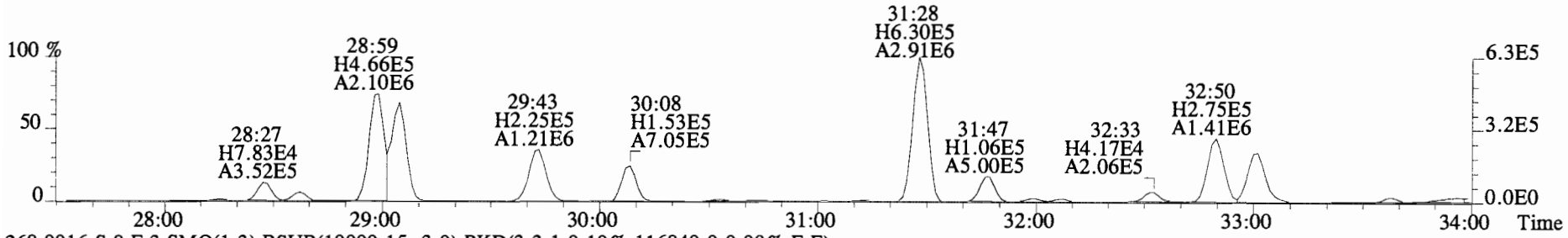
269.9986 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,37044.0,0.00%,F,F)



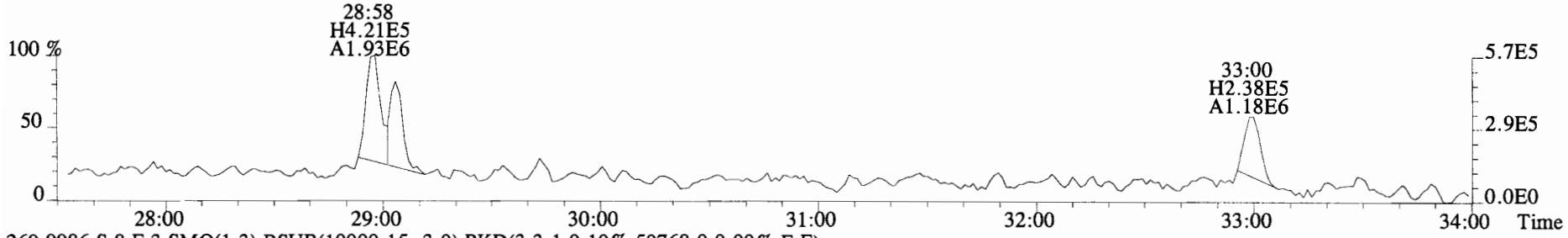
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
255.9613 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5520.0,0.00%,F,F)



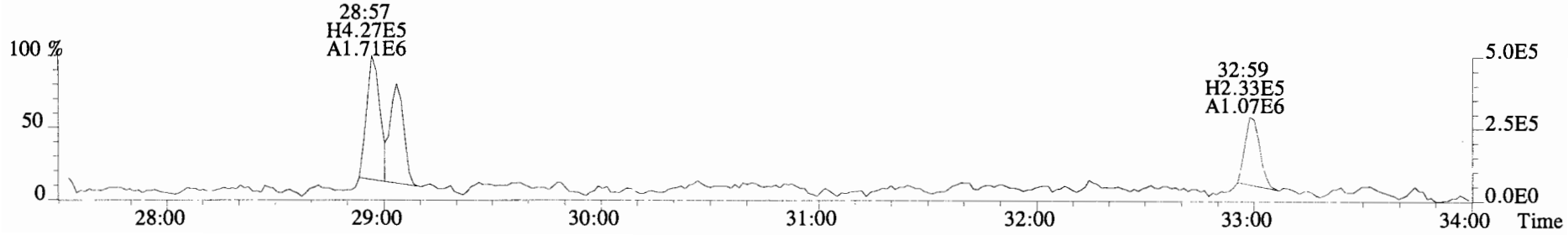
257.9584 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3092.0,0.00%,F,F)



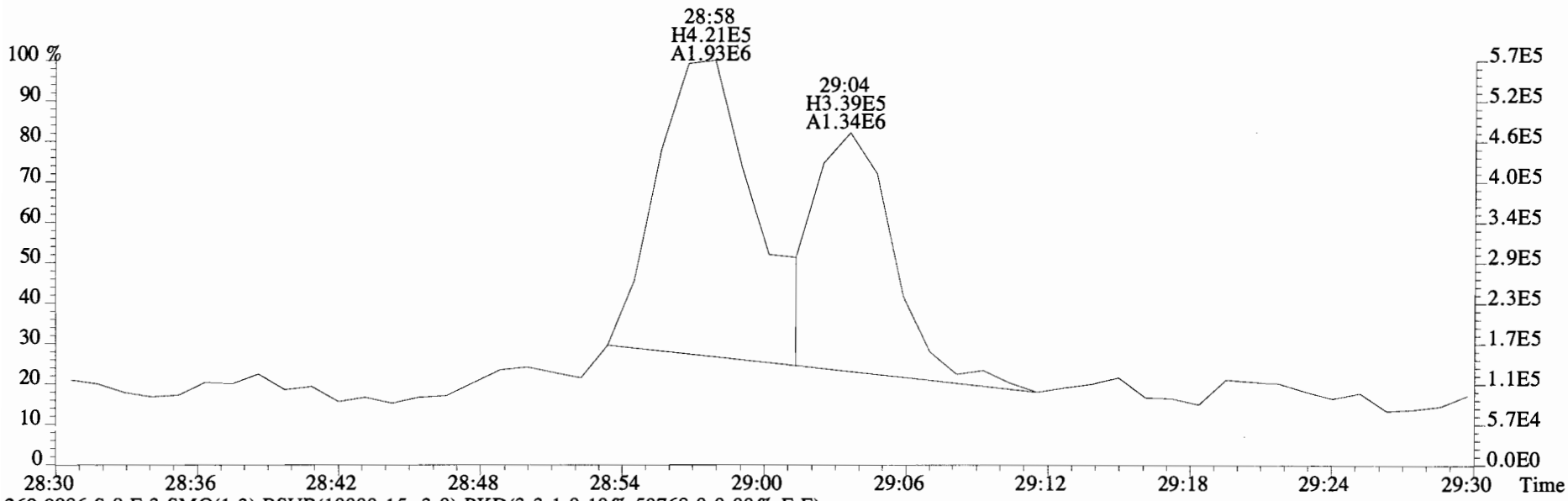
268.0016 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,116840.0,0.00%,F,F)



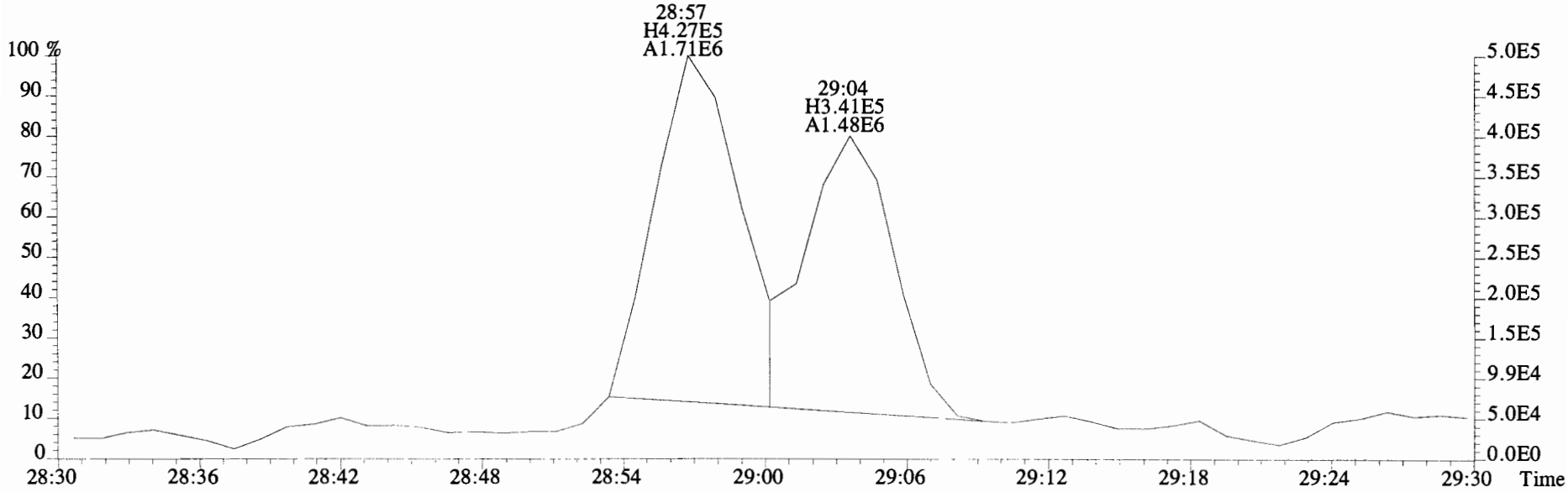
269.9986 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,50768.0,0.00%,F,F)



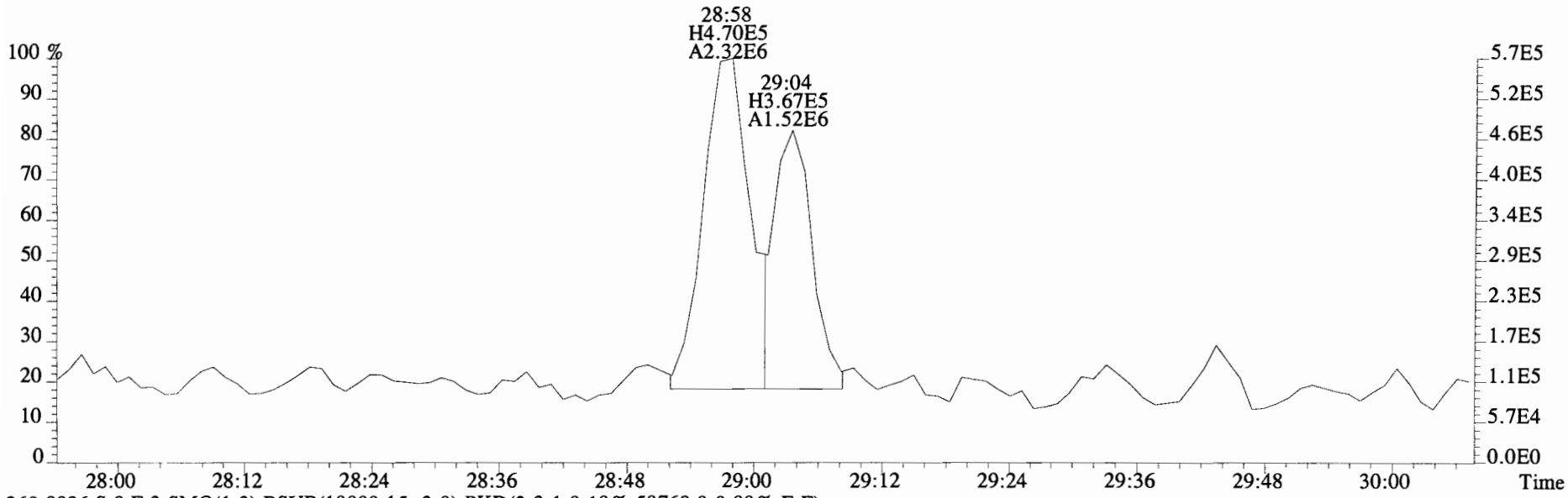
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
268.0016 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,116840.0,0.00%,F,F)



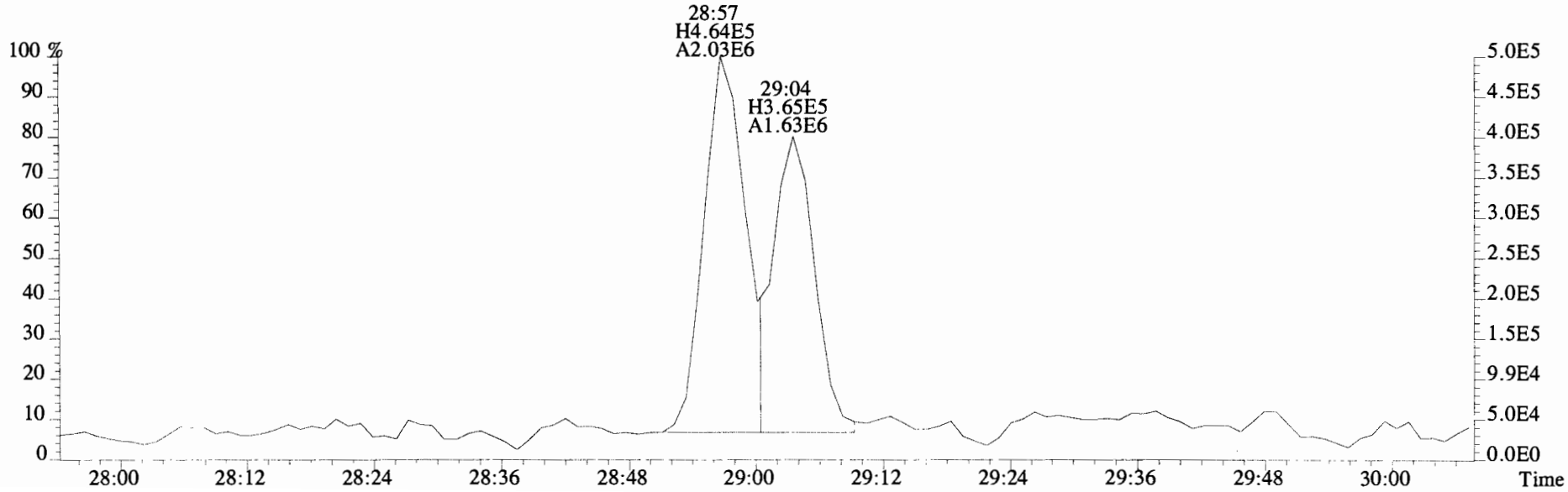
269.9986 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,50768.0,0.00%,F,F)



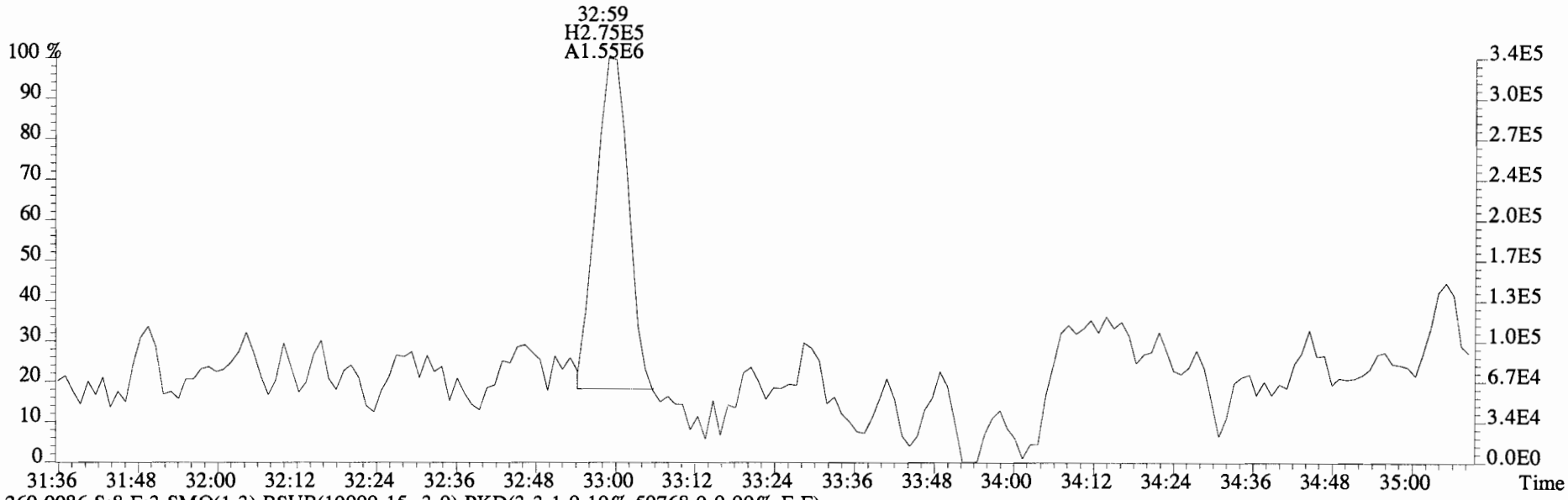
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
268.0016 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,116840.0,0.00%,F,F)



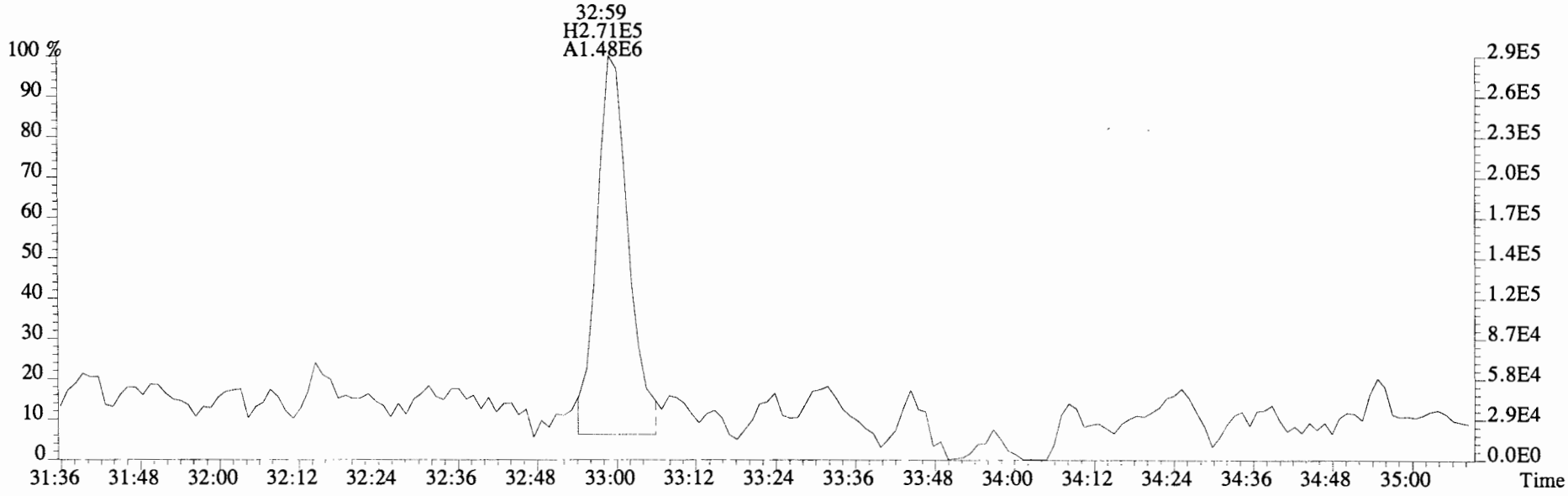
269.9986 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,50768.0,0.00%,F,F)

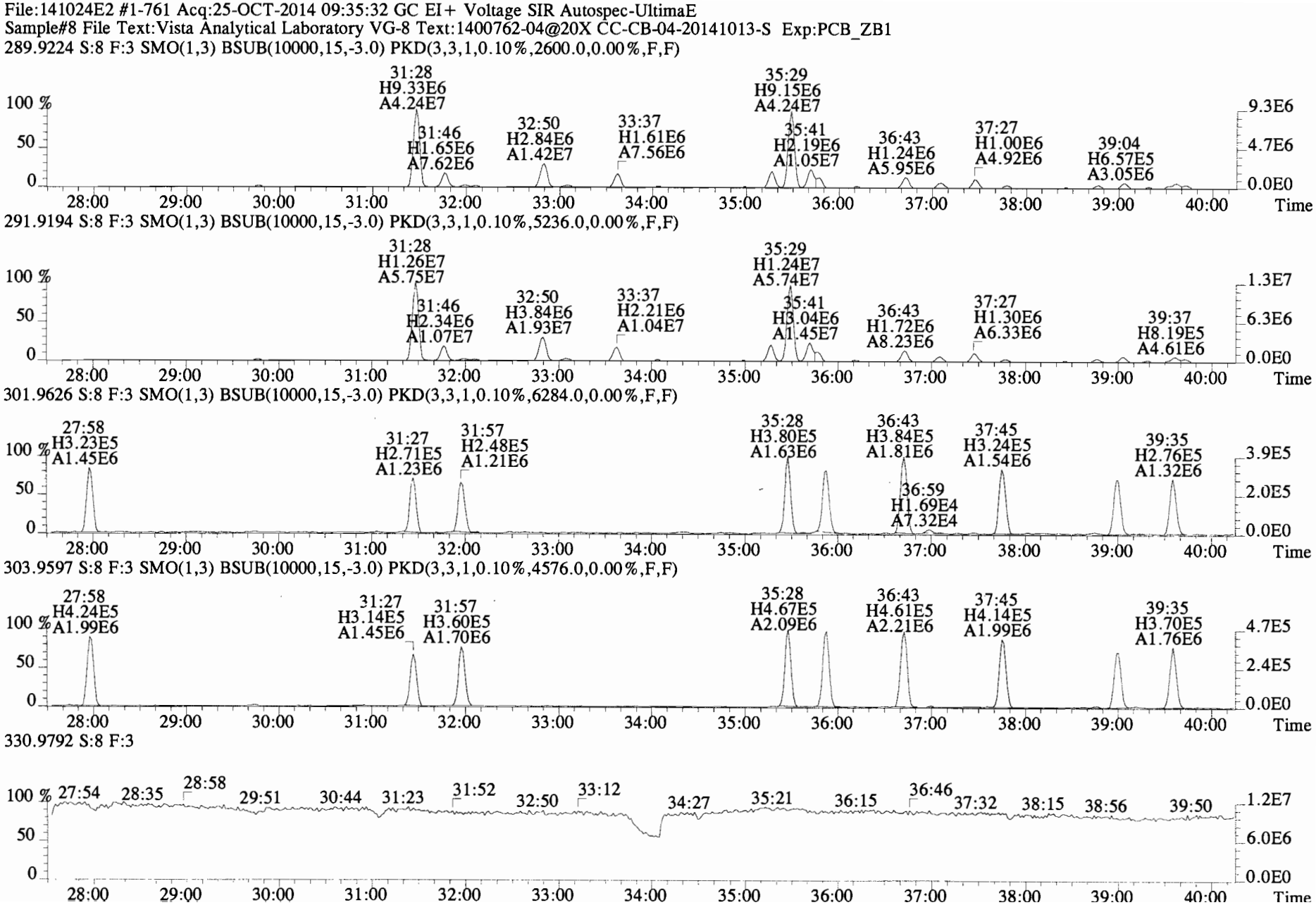


File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
268.0016 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,116840.0,0.00%,F,F)

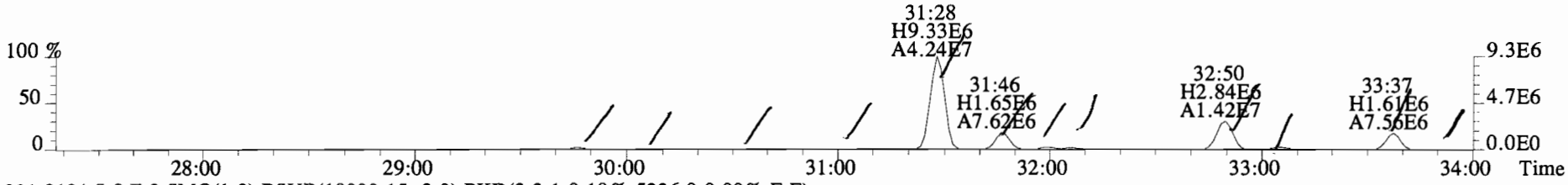


269.9986 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,50768.0,0.00%,F,F)

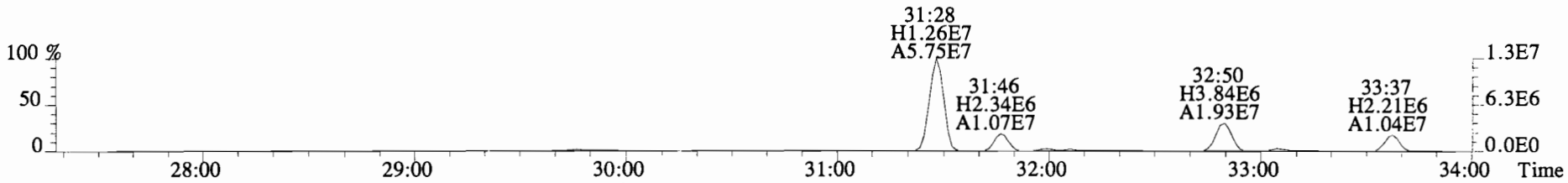



File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)
31:28 H9.33E6 A4.24E7
31:46 H1.65E6 A7.62E6
32:50 H2.84E6 A1.42E7
33:37 H1.61E6 A7.56E6
35:29 H9.15E6 A4.24E7
35:41 H2.19E6 A1.05E7
36:43 H1.24E6 A5.95E6
37:27 H1.00E6 A4.92E6
39:04 H6.57E5 A3.05E6
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5236.0,0.00%,F,F)
31:28 H1.26E7 A5.75E7
31:46 H2.34E6 A1.07E7
32:50 H3.84E6 A1.93E7
33:37 H2.21E6 A1.04E7
35:29 H1.24E7 A5.74E7
35:41 H3.04E6 A1.45E7
36:43 H1.72E6 A8.23E6
37:27 H1.30E6 A6.33E6
39:37 H8.19E5 A4.61E6
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6284.0,0.00%,F,F)
27:58 H3.23E5 A1.45E6
31:27 H2.71E5 A1.23E6
31:57 H2.48E5 A1.21E6
35:28 H3.80E5 A1.63E6
36:43 H3.84E5 A1.81E6
36:59 H1.69E4 A7.32E4
37:45 H3.24E5 A1.54E6
39:35 H2.76E5 A1.32E6
303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4576.0,0.00%,F,F)
27:58 H4.24E5 A1.99E6
31:27 H3.14E5 A1.45E6
31:57 H3.60E5 A1.70E6
35:28 H4.67E5 A2.09E6
36:43 H4.61E5 A2.21E6
37:45 H4.14E5 A1.99E6
39:35 H3.70E5 A1.76E6
330.9792 S:8 F:3
27:54 28:35 28:58 29:51 30:44 31:23 31:52 32:50 33:12 34:27 35:21 36:15 36:46 37:32 38:15 38:56 39:50
100 %
50
0
28:00 29:00 30:00 31:00 32:00 33:00 34:00 35:00 36:00 37:00 38:00 39:00 40:00
Time
9.3E6 4.7E6 0.0E0
1.3E7 6.3E6 0.0E0
3.9E5 2.0E5 0.0E0
4.7E5 2.4E5 0.0E0
1.2E7 6.0E6 0.0E0

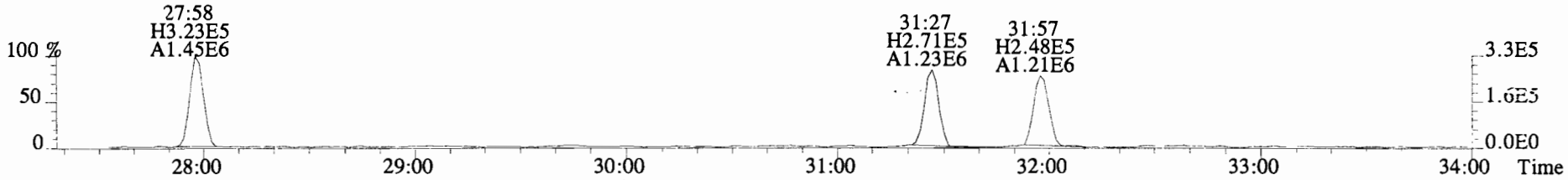
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)



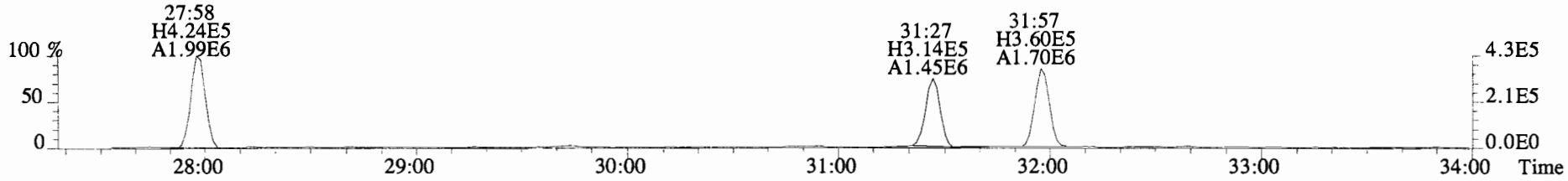
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5236.0,0.00%,F,F)



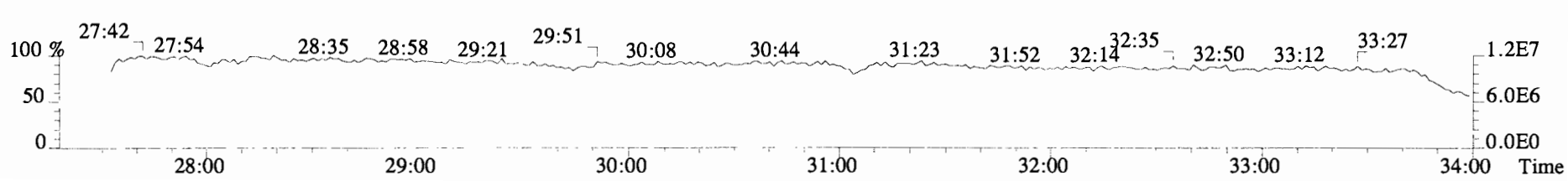
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6284.0,0.00%,F,F)



303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4576.0,0.00%,F,F)

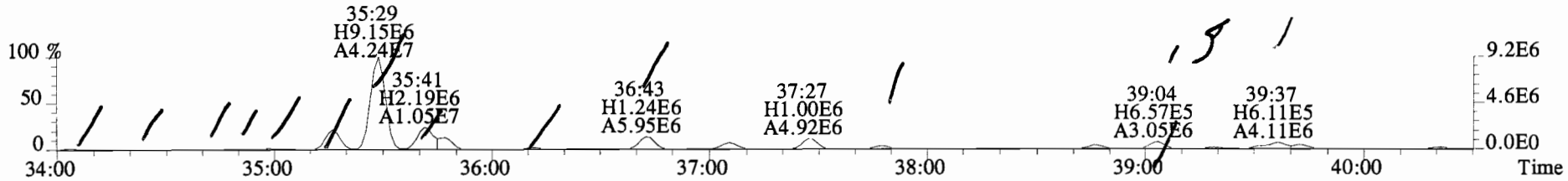


330.9792 S:8 F:3

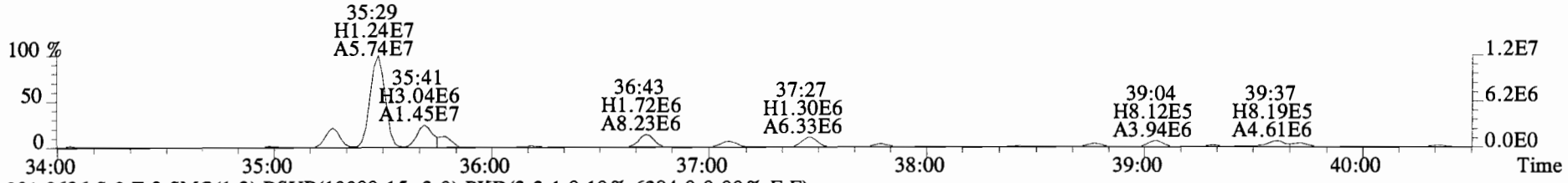


File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1

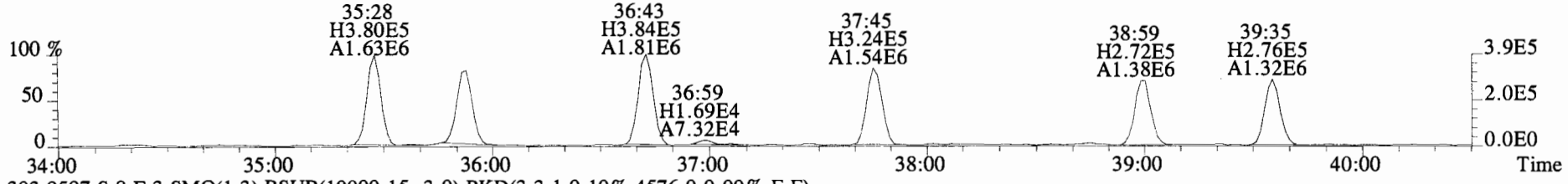
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)



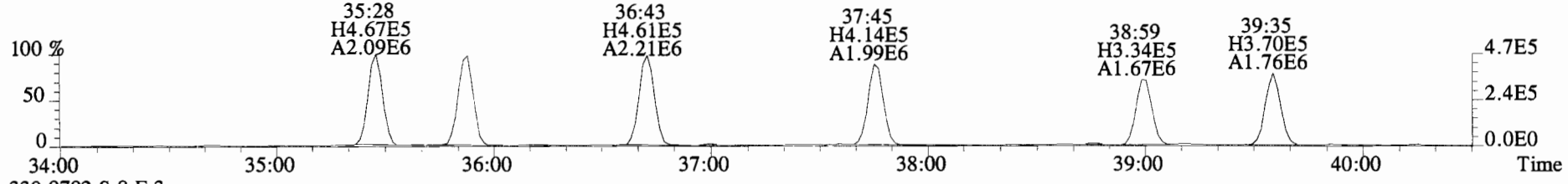
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5236.0,0.00%,F,F)



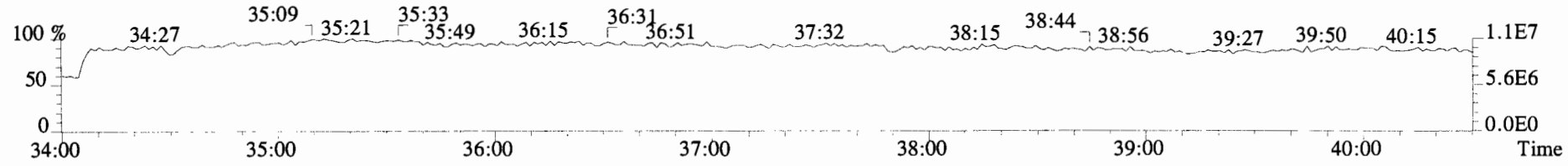
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6284.0,0.00%,F,F)



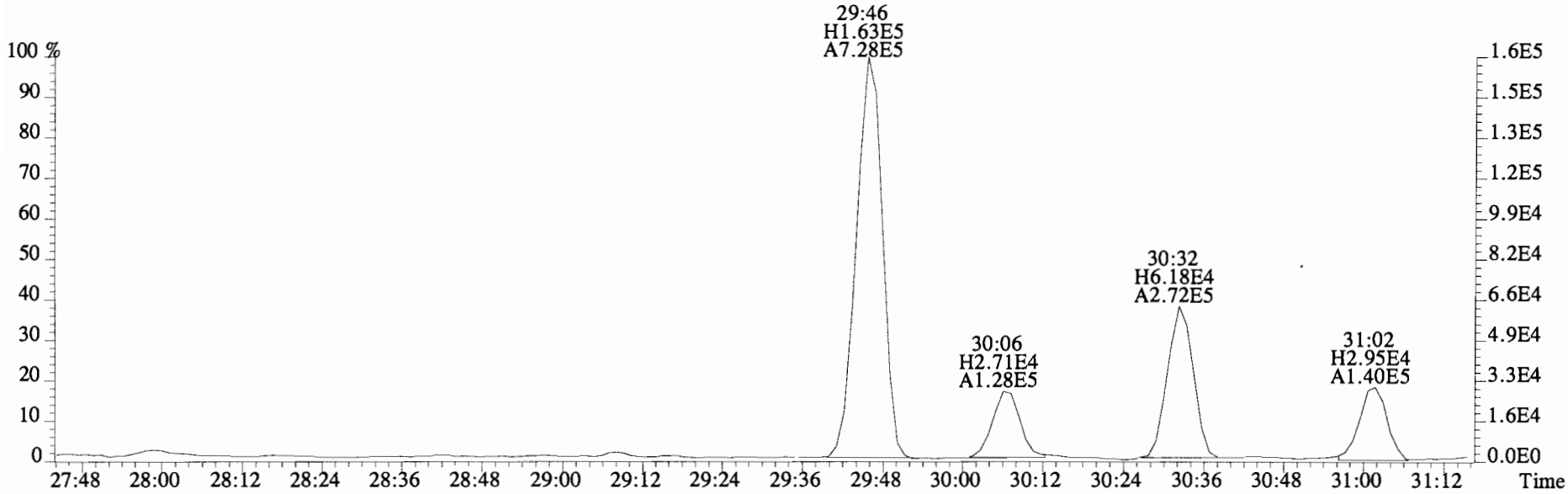
303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4576.0,0.00%,F,F)



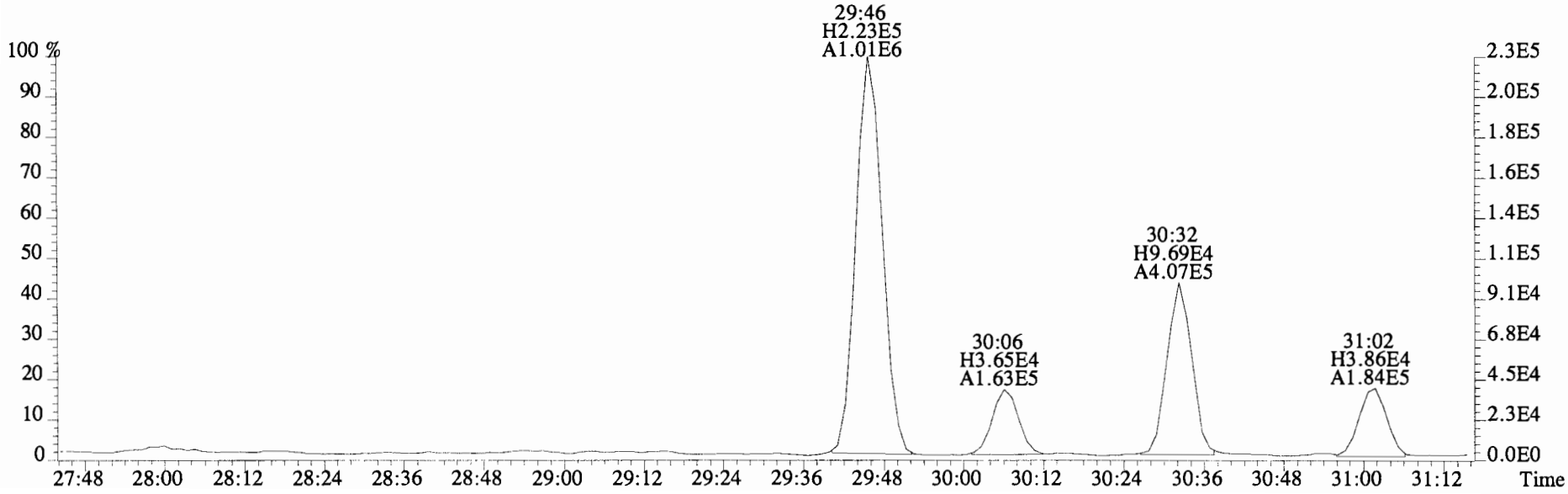
330.9792 S:8 F:3



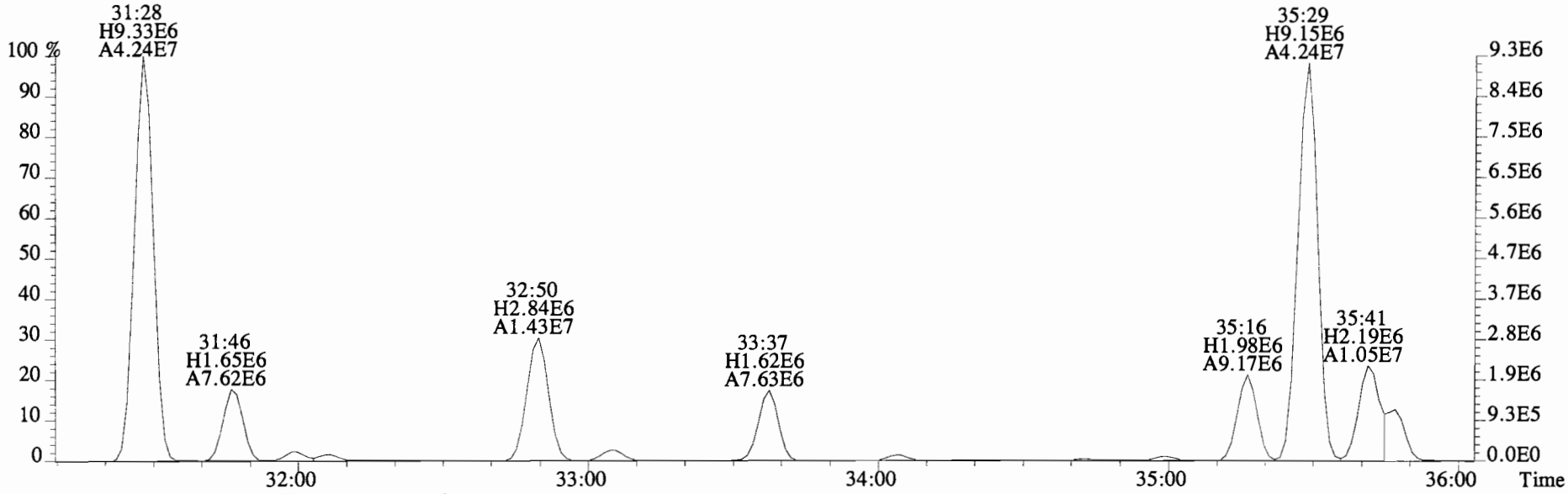
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



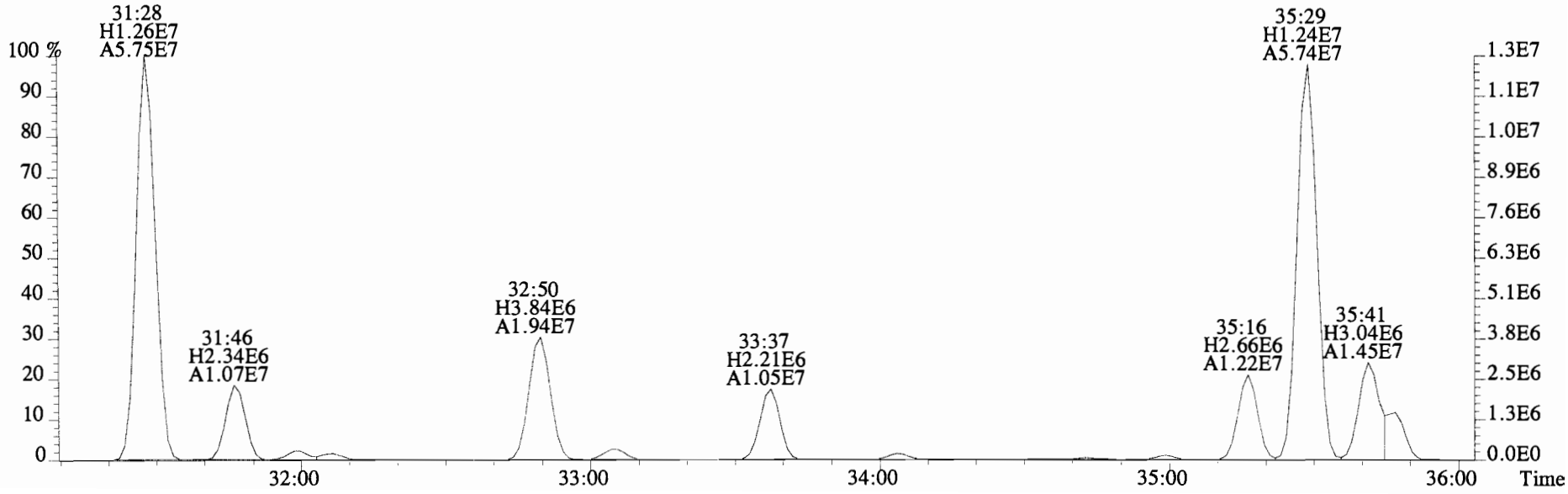
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



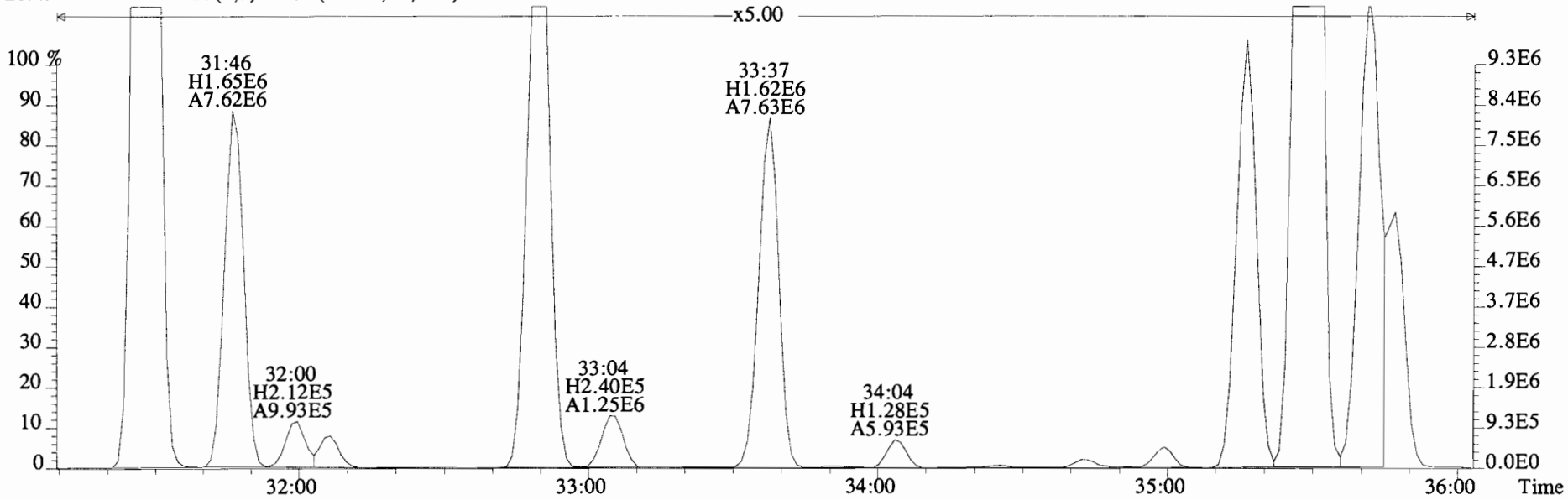
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



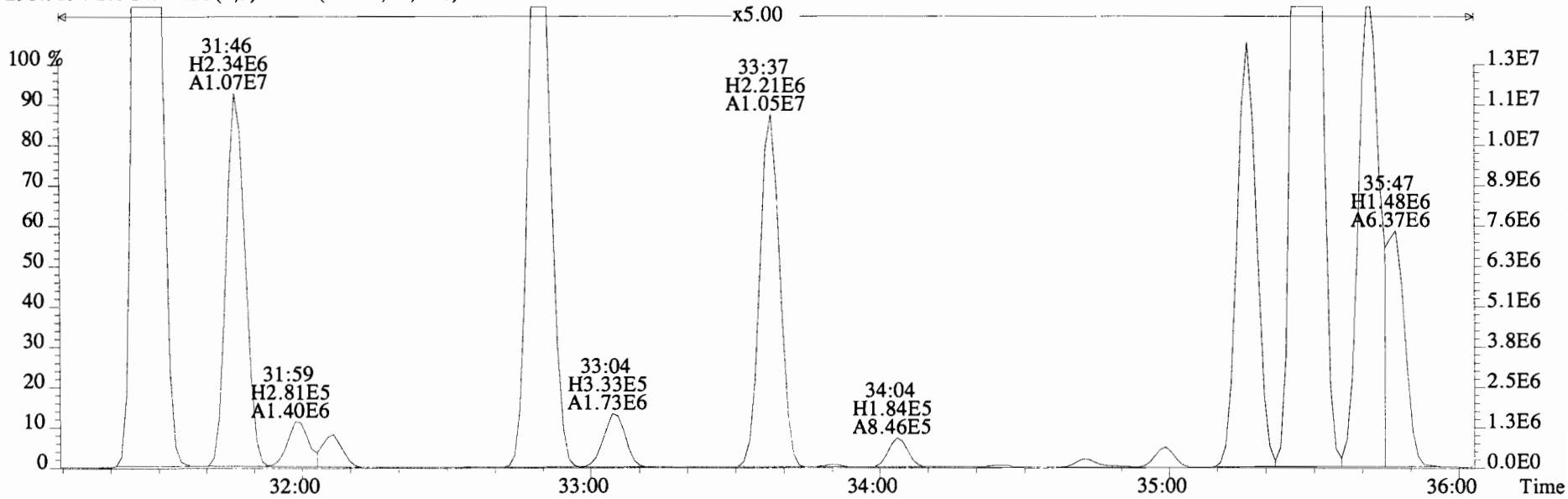
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



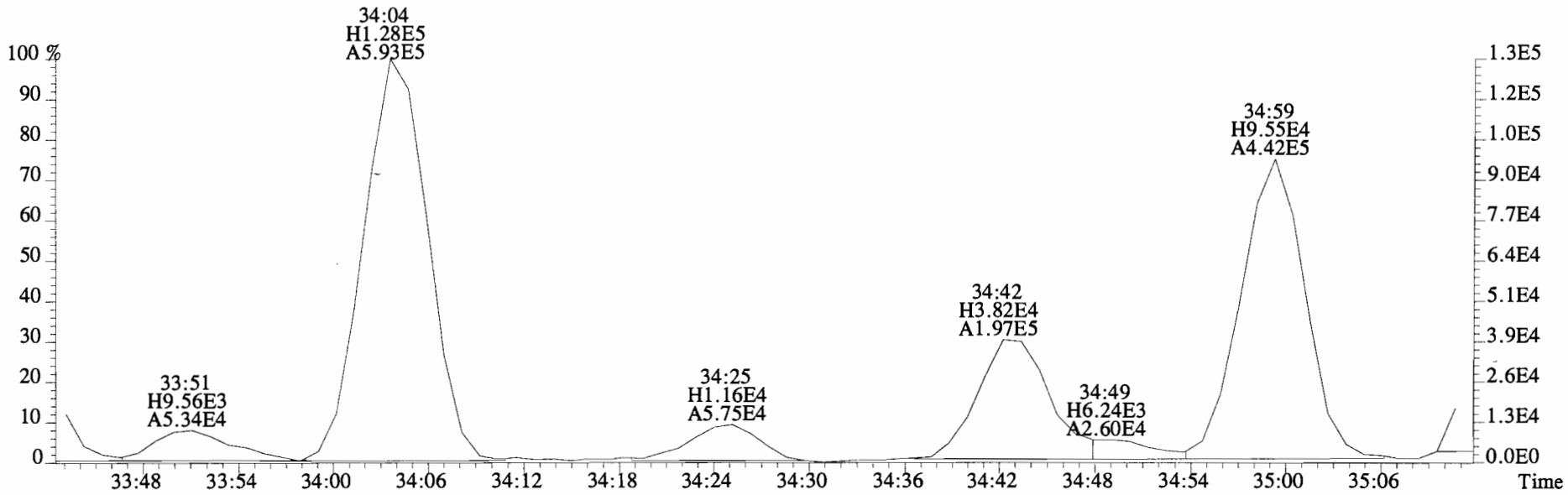
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



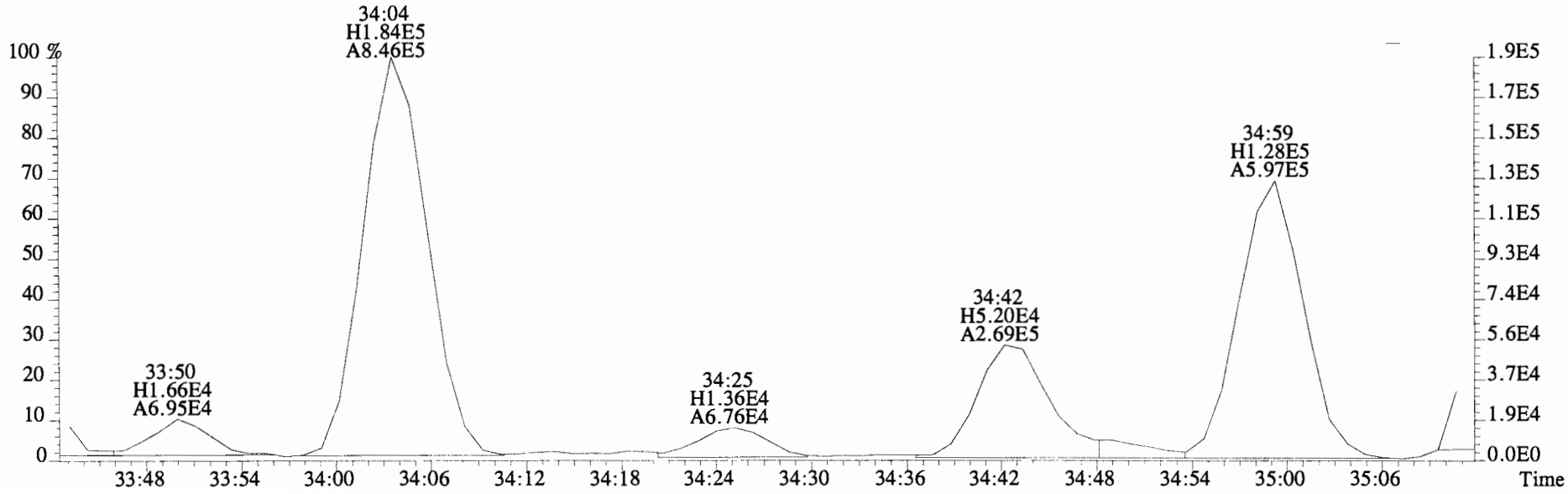
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



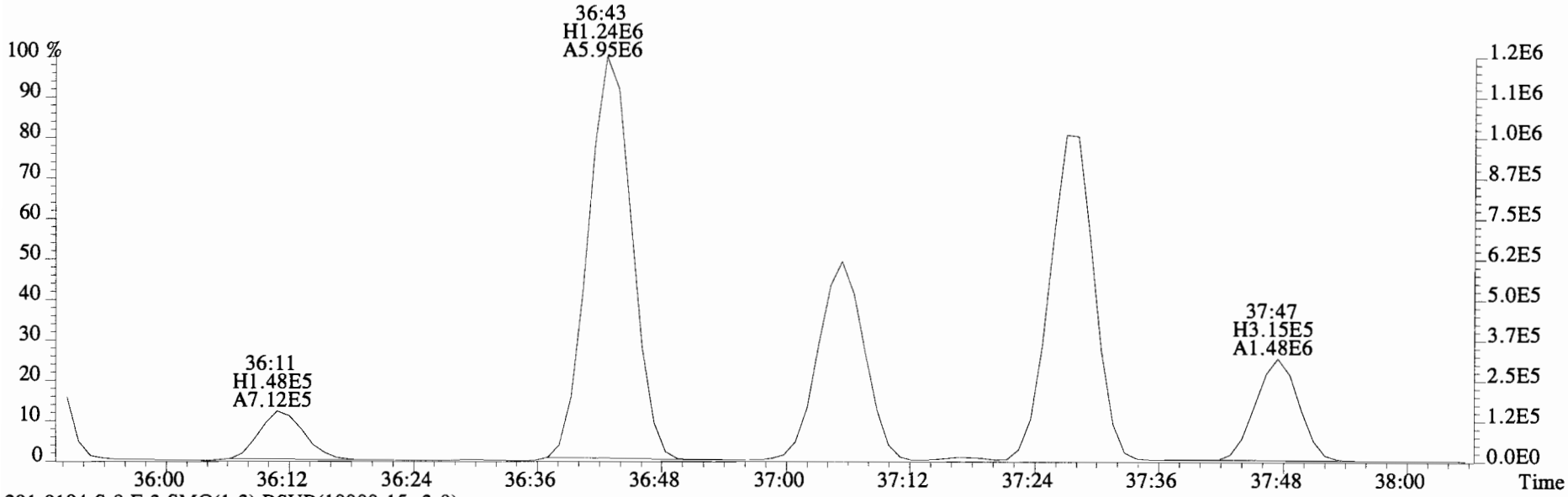
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



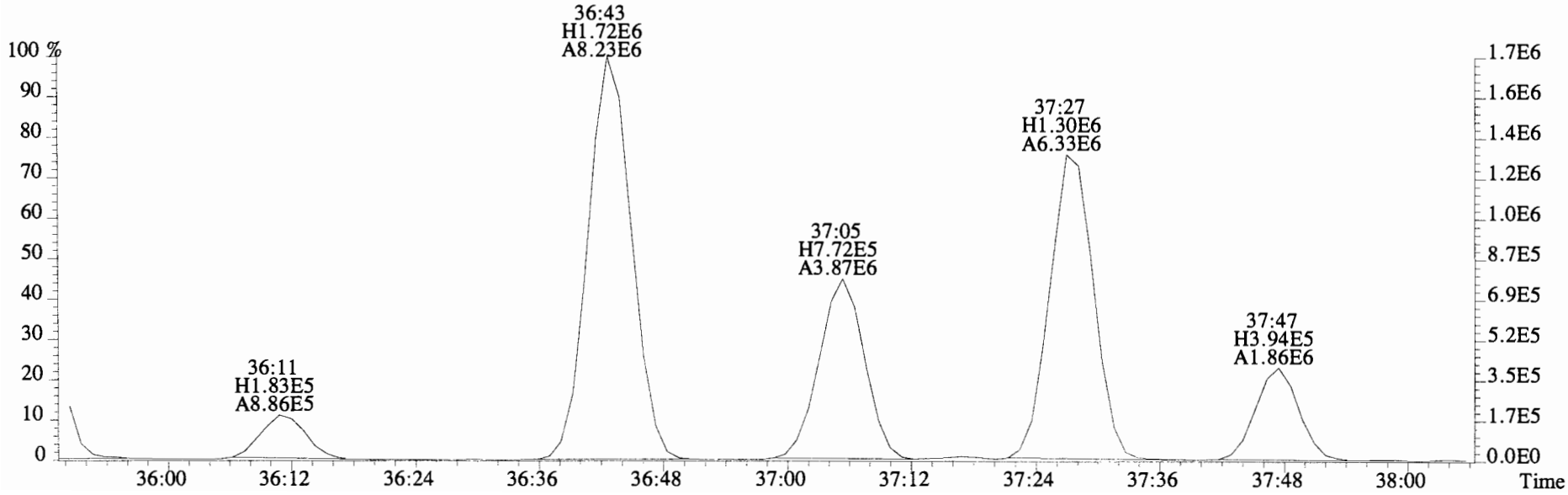
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



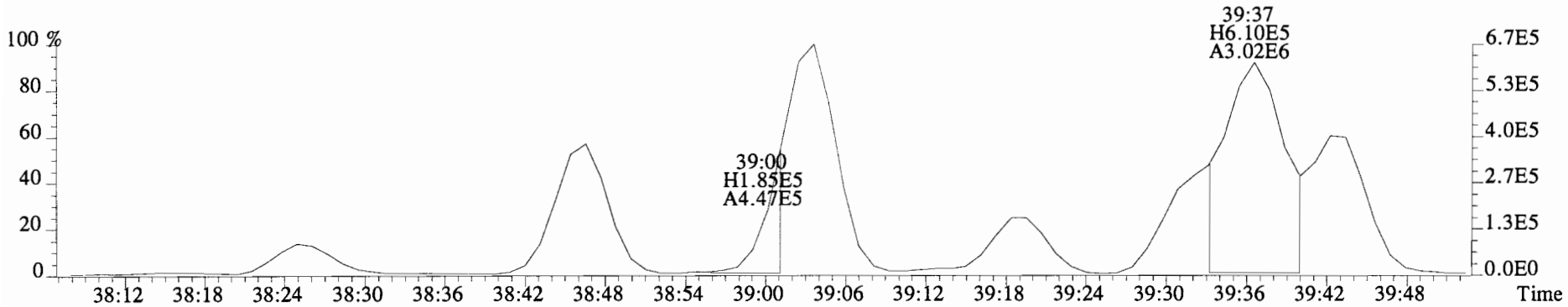
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



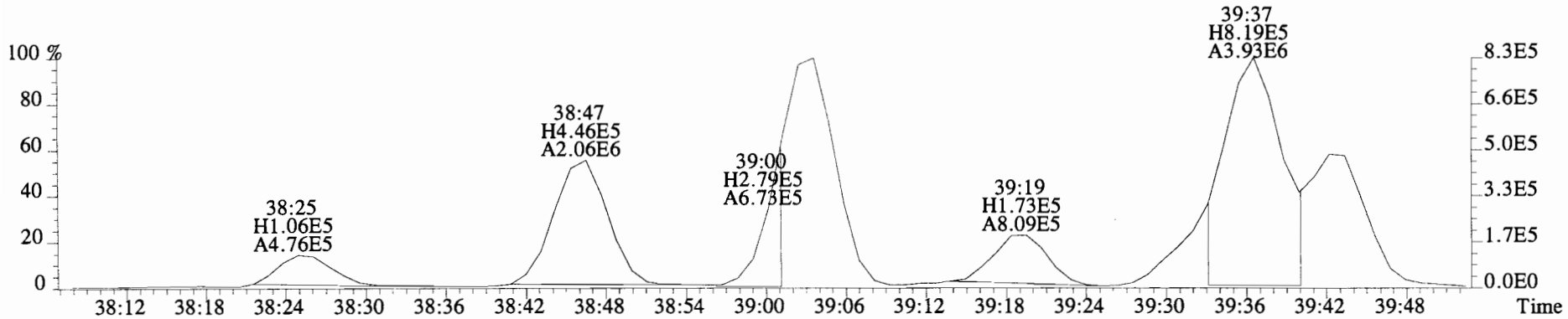
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



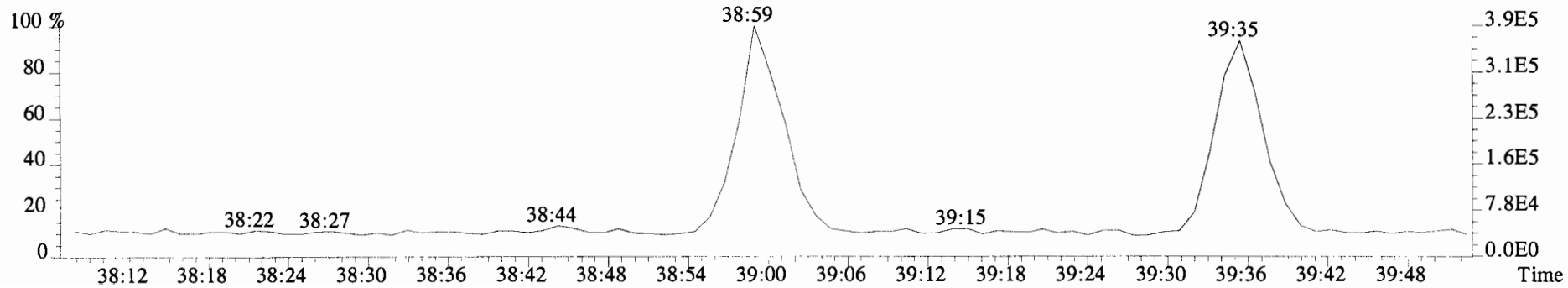
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



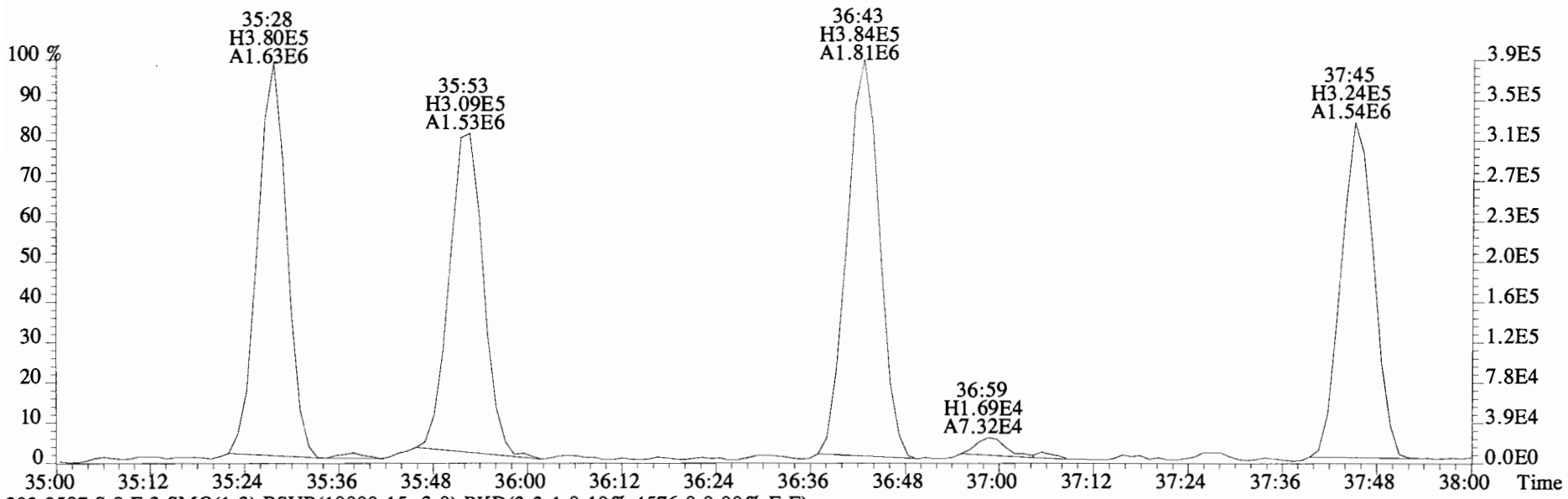
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



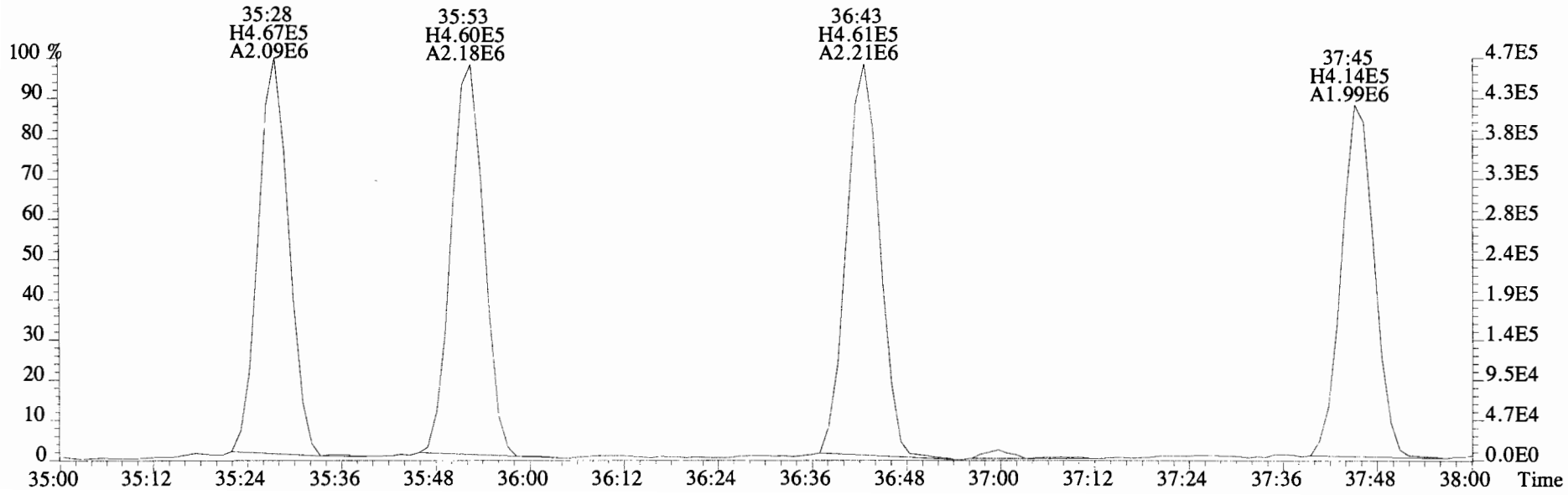
301.9626 S:8 F:3

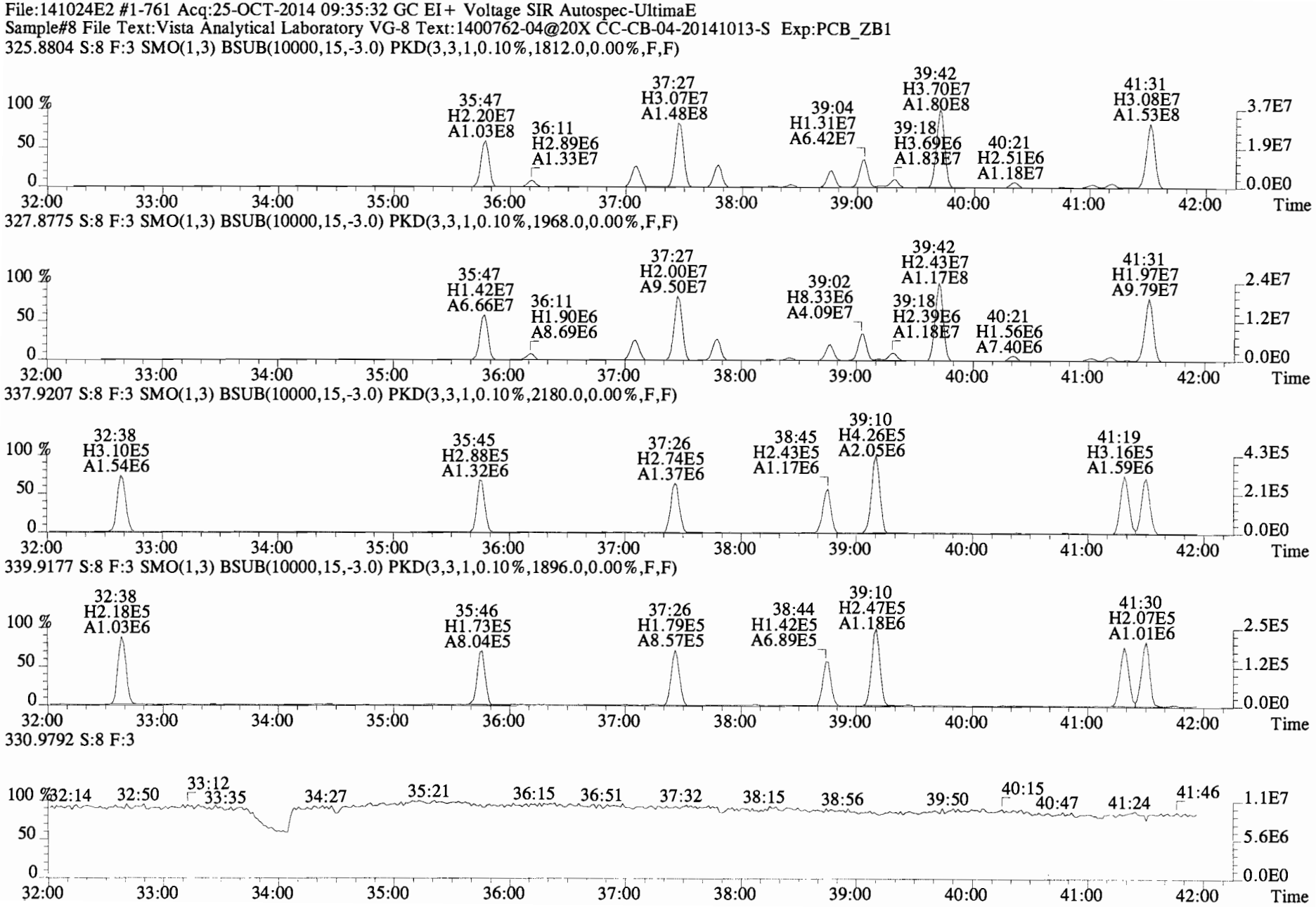


File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6284.0,0.00%,F,F)

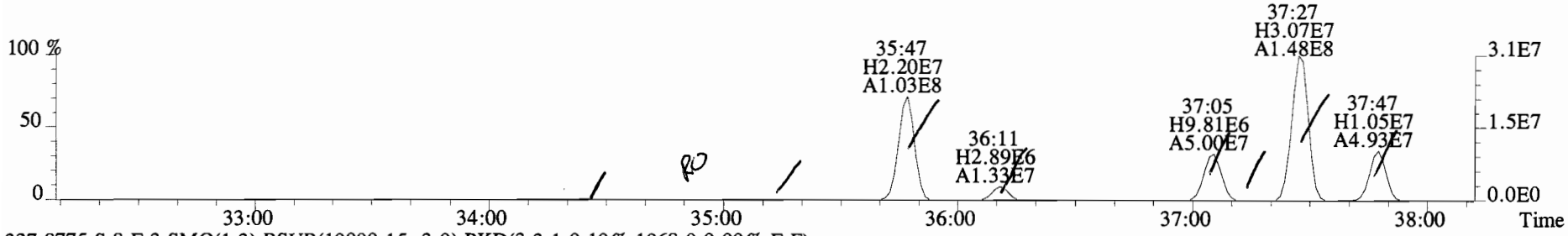


303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4576.0,0.00%,F,F)

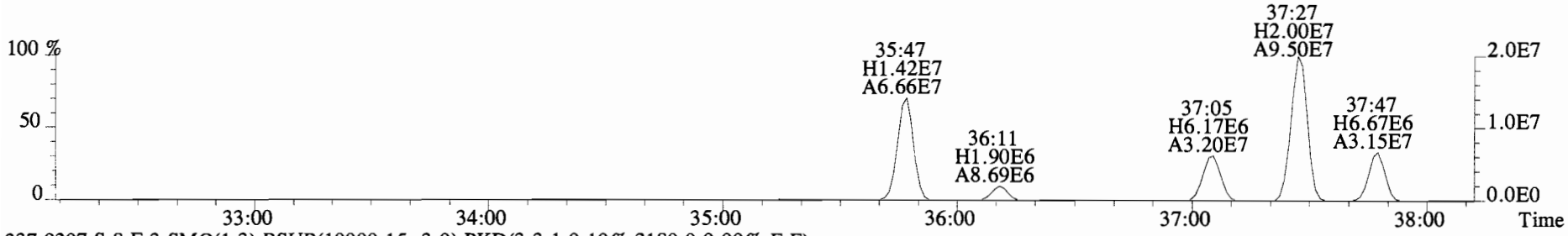



File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1812.0,0.00%,F,F)
35:47 H2.20E7 A1.03E8
36:11 H2.89E6 A1.33E7
37:27 H3.07E7 A1.48E8
39:04 H1.31E7 A6.42E7
39:18 H3.69E6 A1.83E7
39:42 H3.70E7 A1.80E8
40:21 H2.51E6 A1.18E7
41:31 H3.08E7 A1.53E8
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1968.0,0.00%,F,F)
35:47 H1.42E7 A6.66E7
36:11 H1.90E6 A8.69E6
37:27 H2.00E7 A9.50E7
39:02 H8.33E6 A4.09E7
39:18 H2.39E6 A1.18E7
39:42 H2.43E7 A1.17E8
40:21 H1.56E6 A7.40E6
41:31 H1.97E7 A9.79E7
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2180.0,0.00%,F,F)
32:38 H3.10E5 A1.54E6
35:45 H2.88E5 A1.32E6
37:26 H2.74E5 A1.37E6
38:45 H2.43E5 A1.17E6
39:10 H4.26E5 A2.05E6
41:19 H3.16E5 A1.59E6
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1896.0,0.00%,F,F)
32:38 H2.18E5 A1.03E6
35:46 H1.73E5 A8.04E5
37:26 H1.79E5 A8.57E5
38:44 H1.42E5 A6.89E5
39:10 H2.47E5 A1.18E6
41:30 H2.07E5 A1.01E6
330.9792 S:8 F:3
32:14 32:50 33:12 33:35 34:27 35:21 36:15 36:51 37:32 38:15 38:56 39:50 40:15 40:47 41:24 41:46
100 %
50
0
32:00 33:00 34:00 35:00 36:00 37:00 38:00 39:00 40:00 41:00 42:00 Time
3.7E7 1.9E7 0.0E0
2.4E7 1.2E7 0.0E0
4.3E5 2.1E5 0.0E0
2.5E5 1.2E5 0.0E0
1.1E7 5.6E6 0.0E0

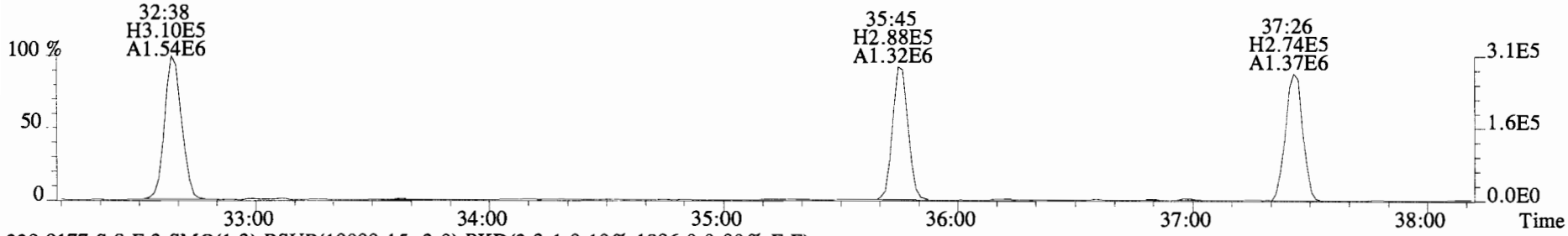
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1812.0,0.00%,F,F)



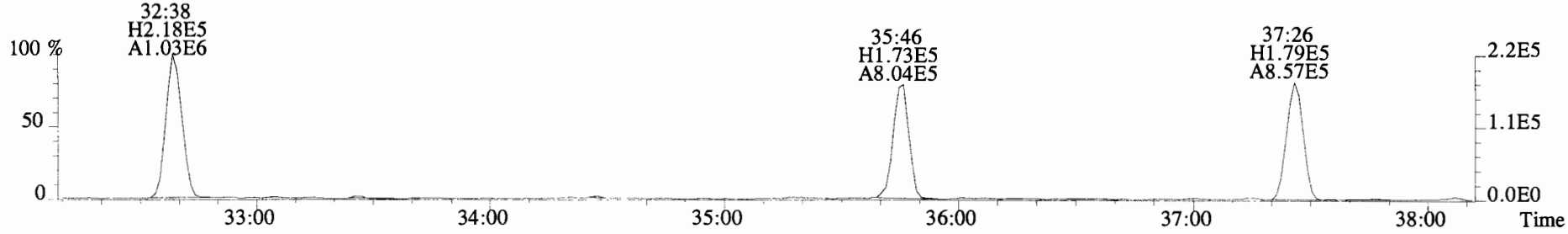
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1968.0,0.00%,F,F)



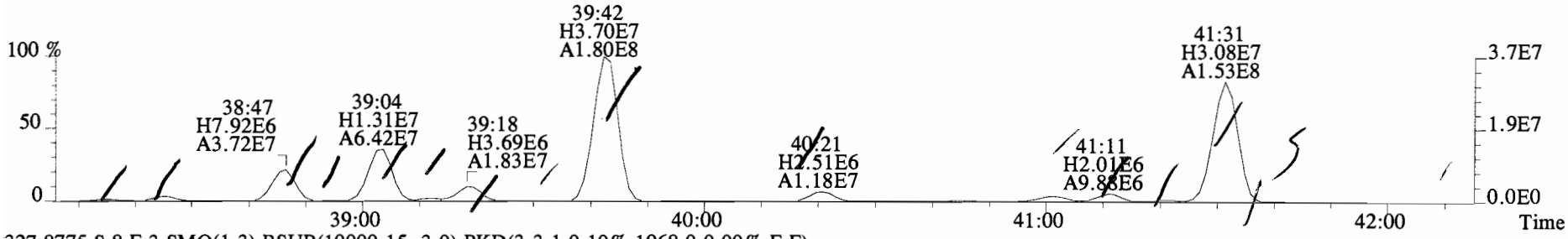
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2180.0,0.00%,F,F)



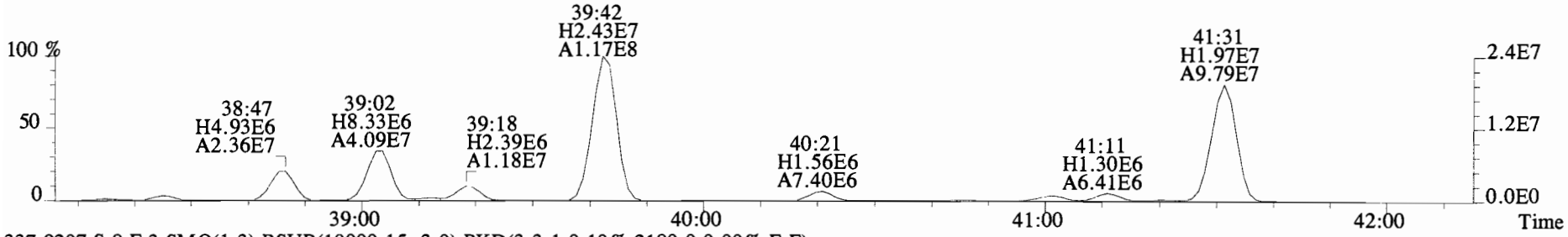
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1896.0,0.00%,F,F)



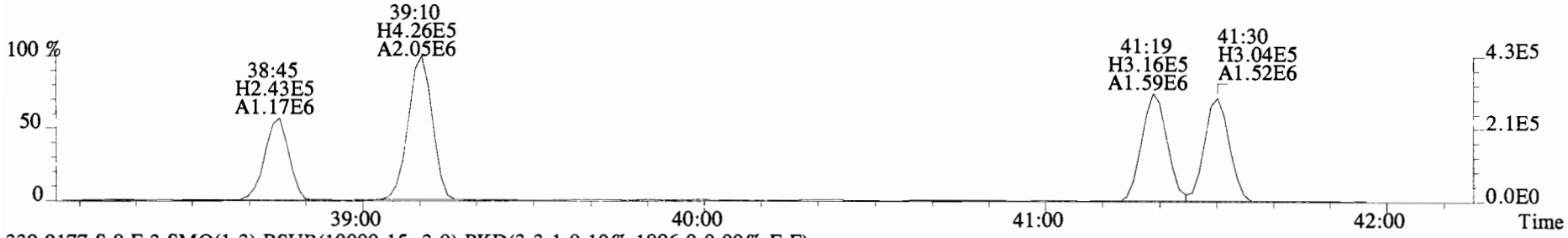
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1812.0,0.00%,F,F)



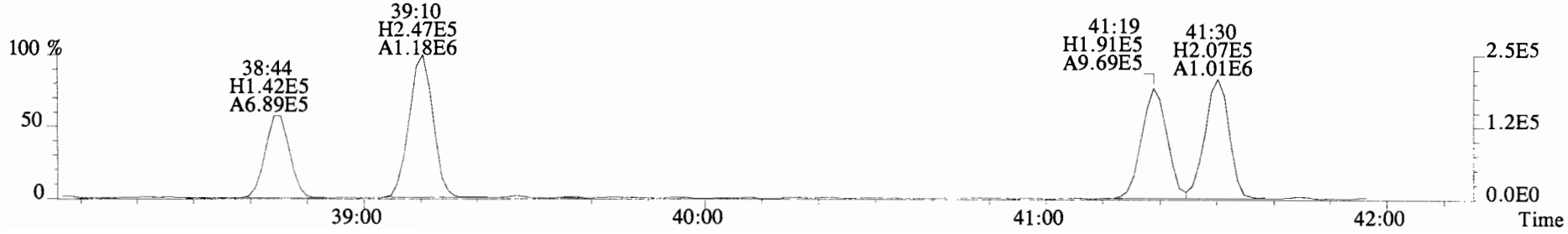
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1968.0,0.00%,F,F)



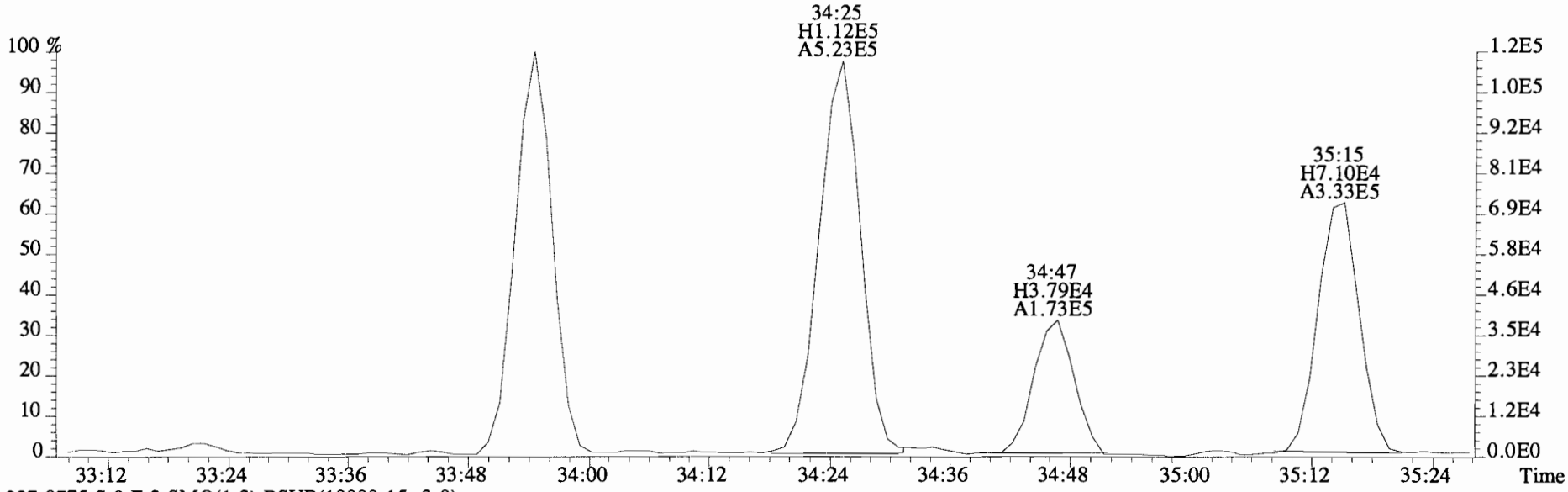
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2180.0,0.00%,F,F)



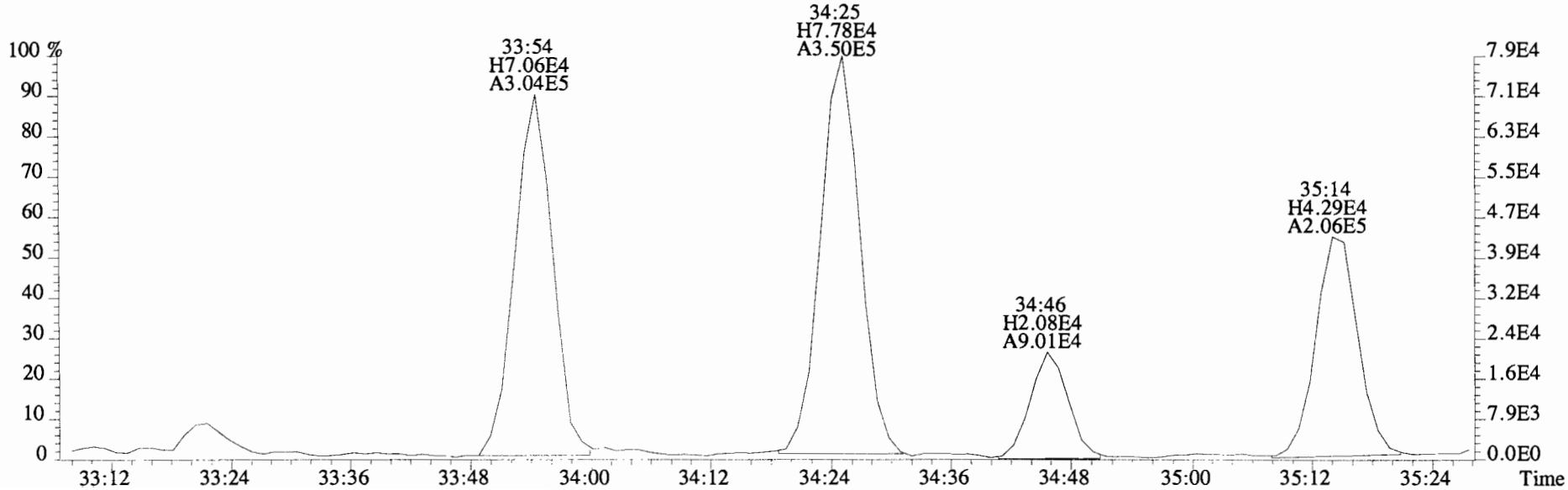
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1896.0,0.00%,F,F)



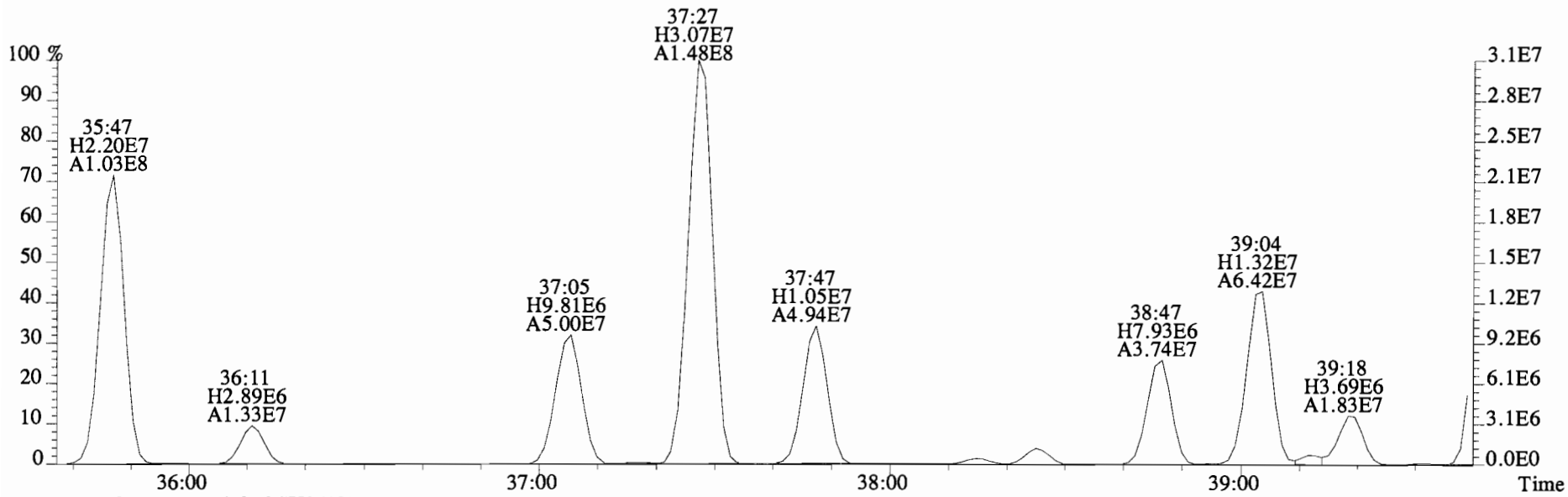
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



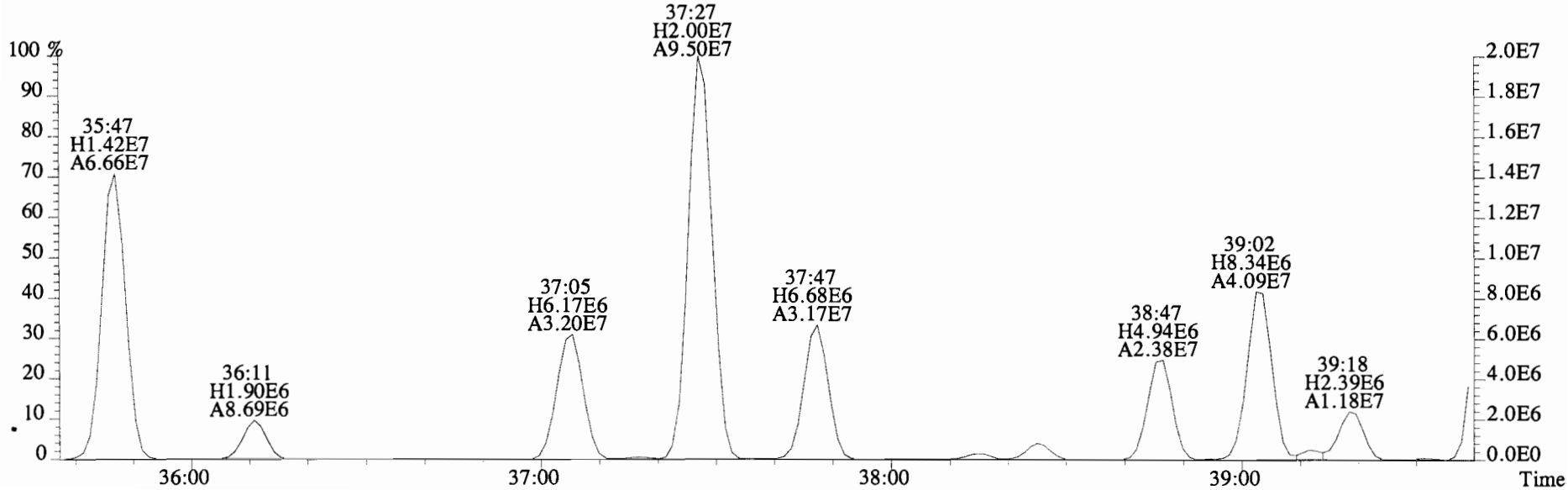
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



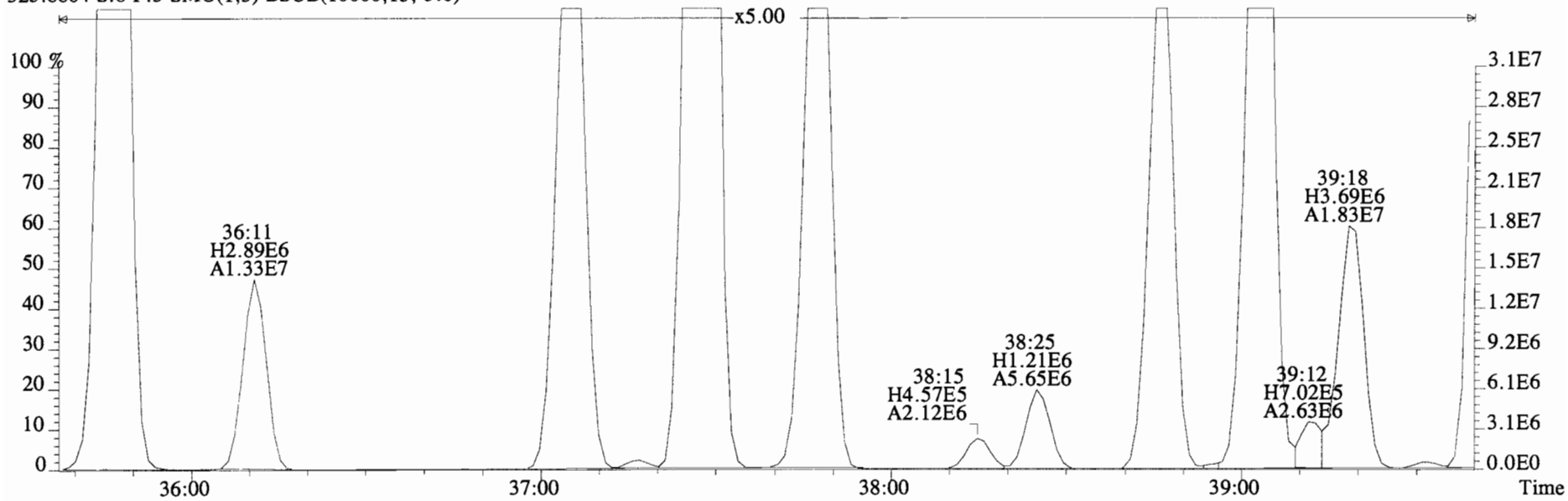
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



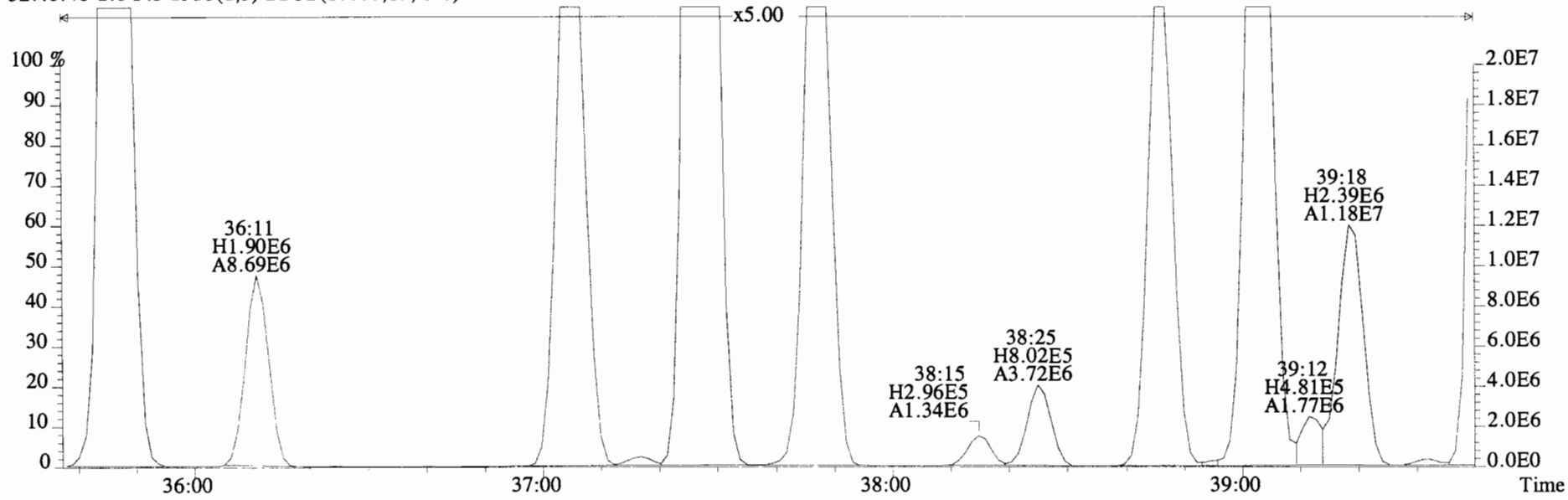
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



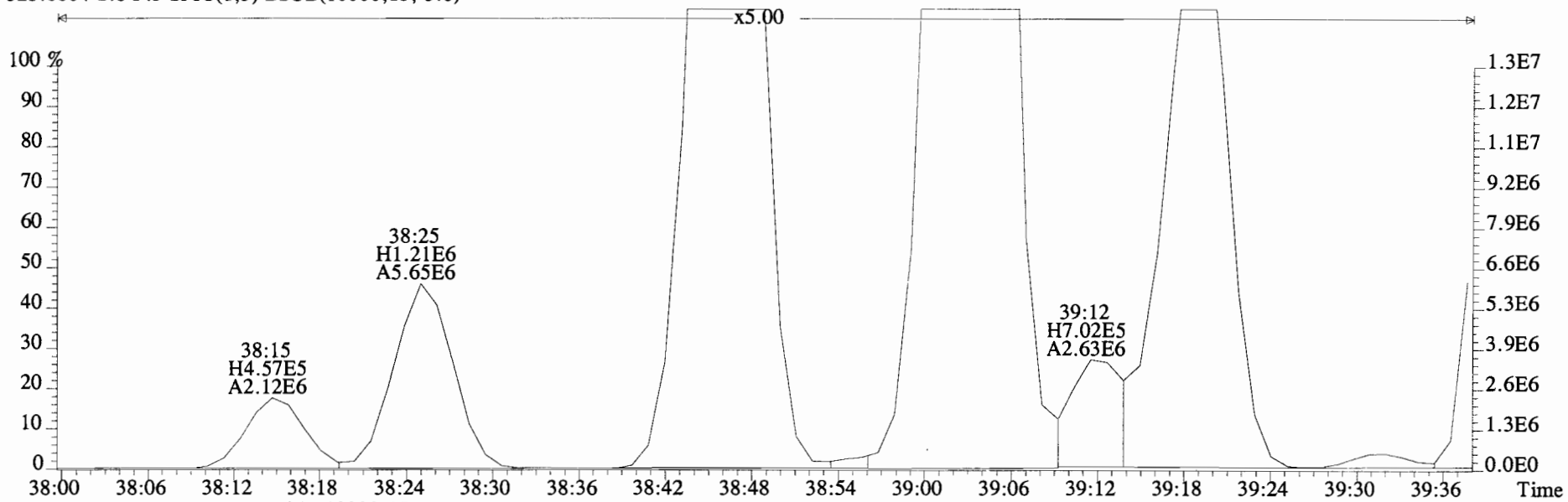
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



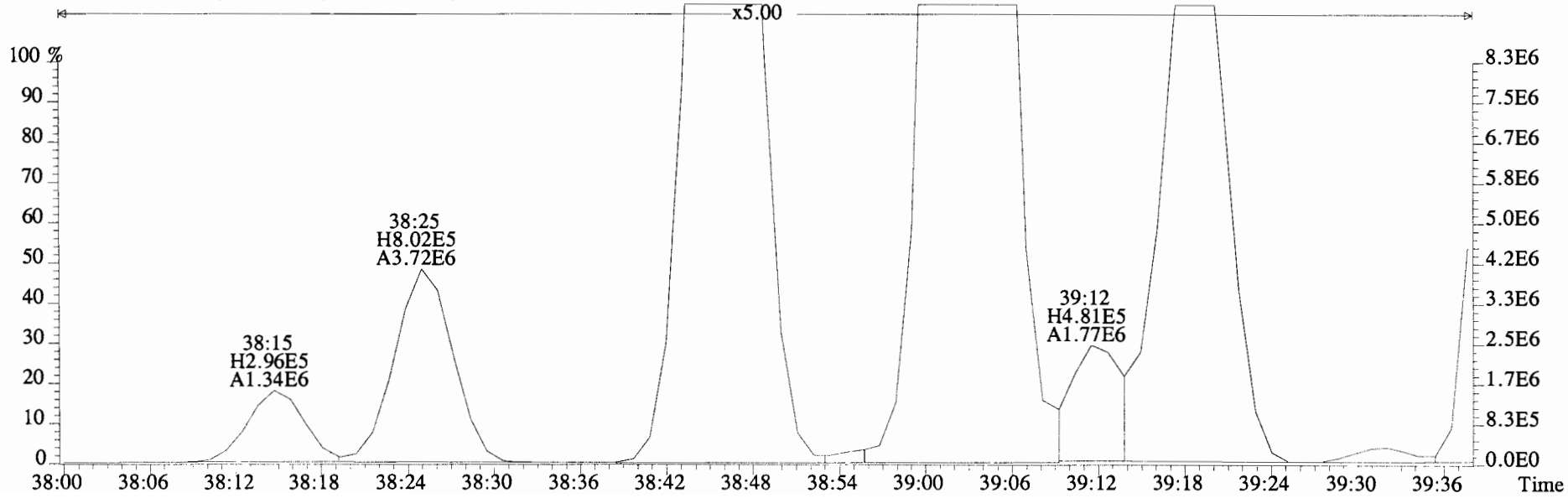
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



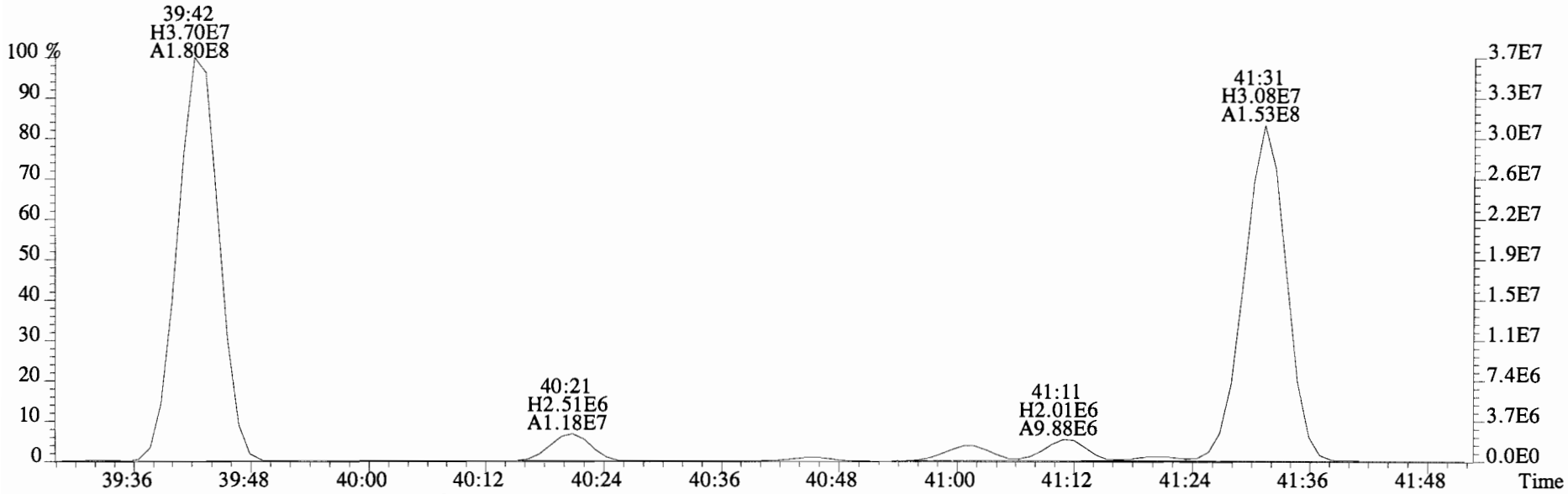
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



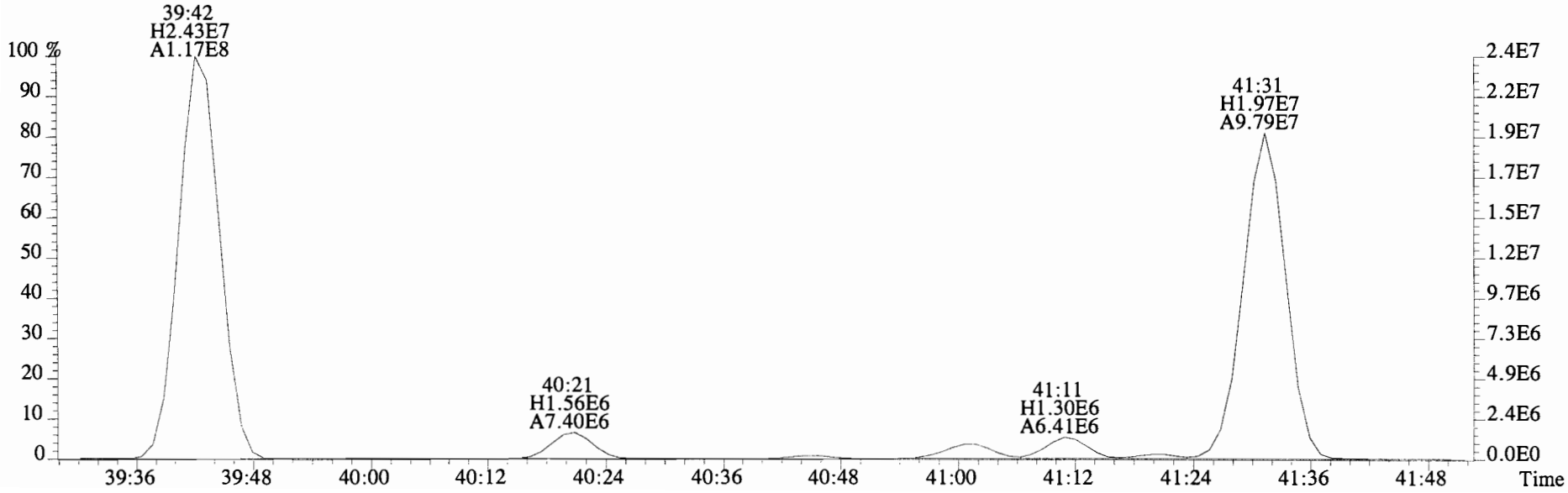
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



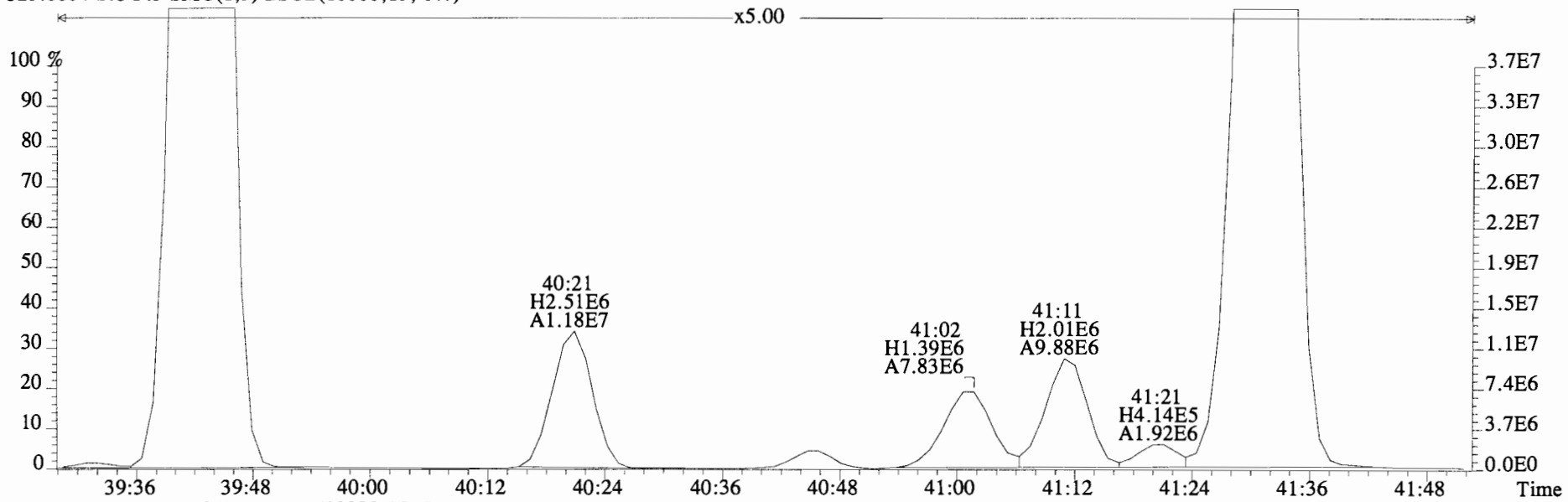
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



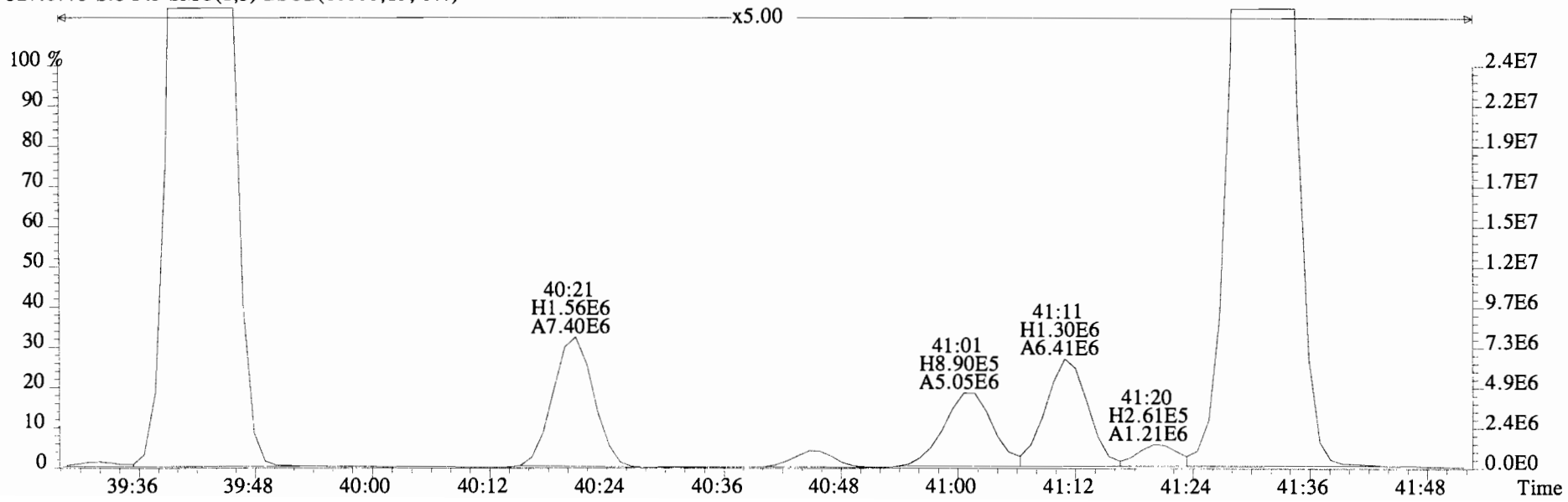
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



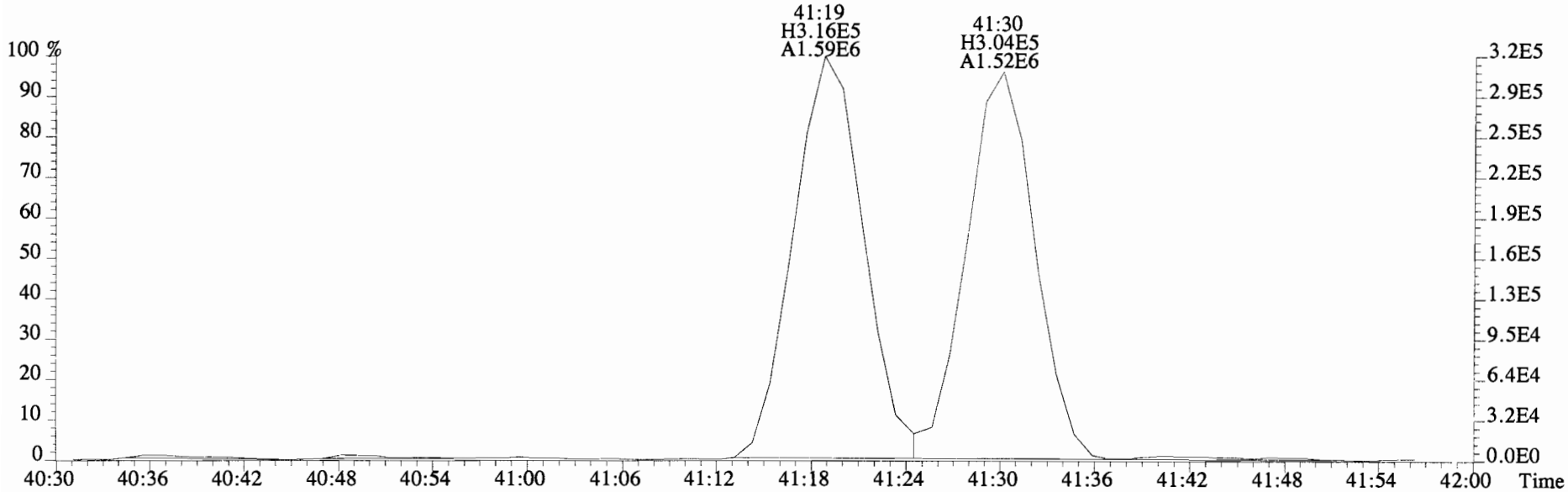
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



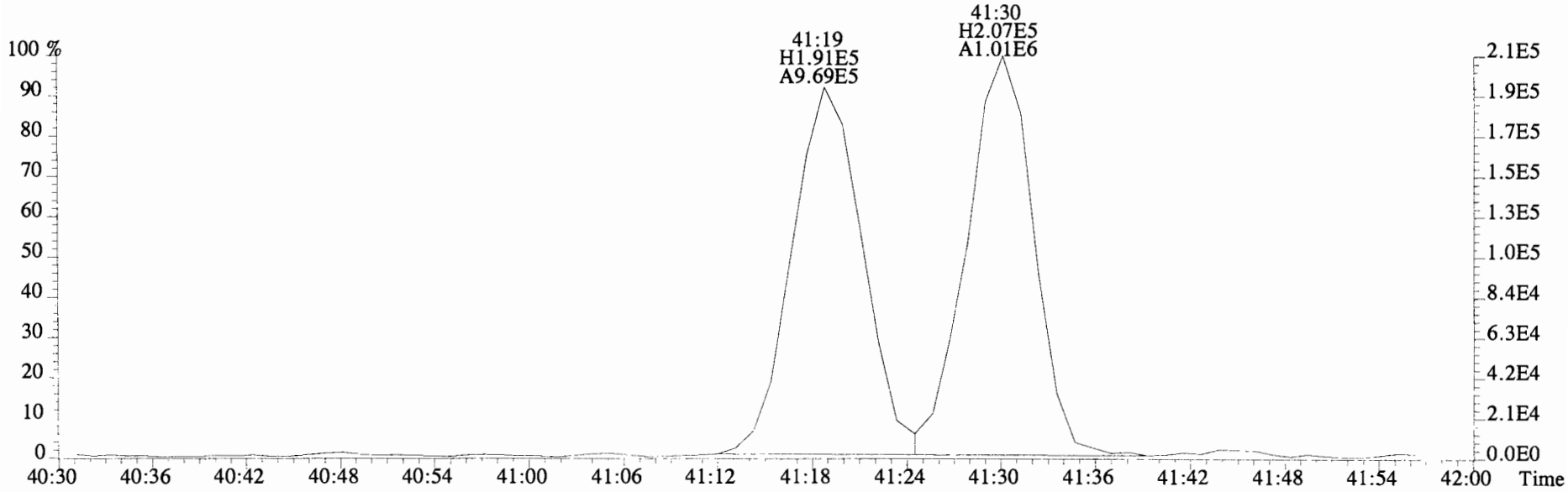
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



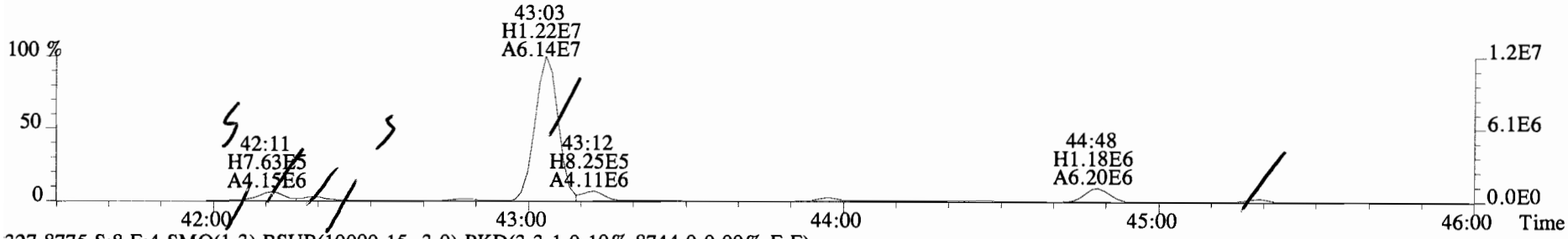
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2180.0,0.00%,F,F)



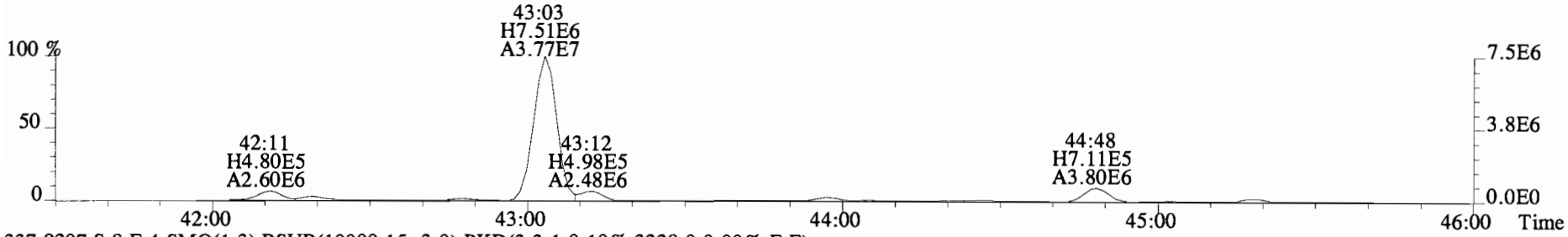
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1896.0,0.00%,F,F)



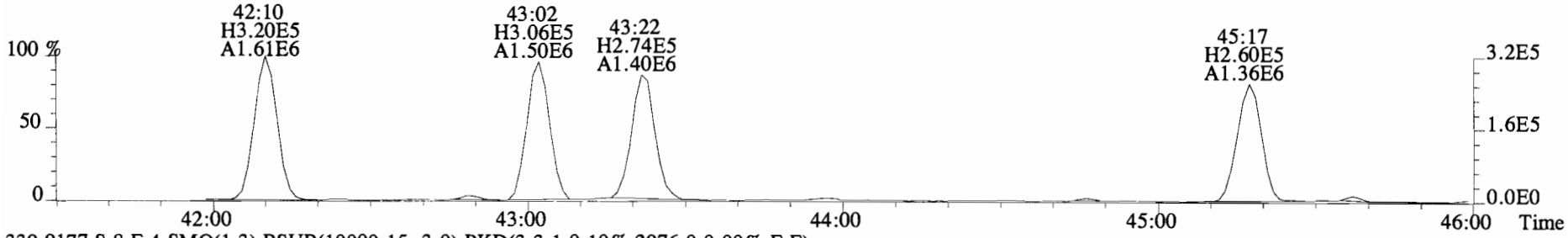
File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13392.0,0.00%,F,F)



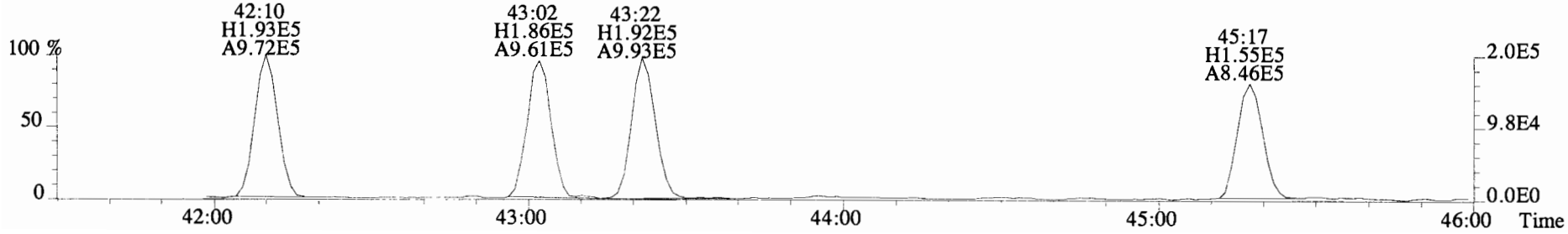
327.8775 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8744.0,0.00%,F,F)



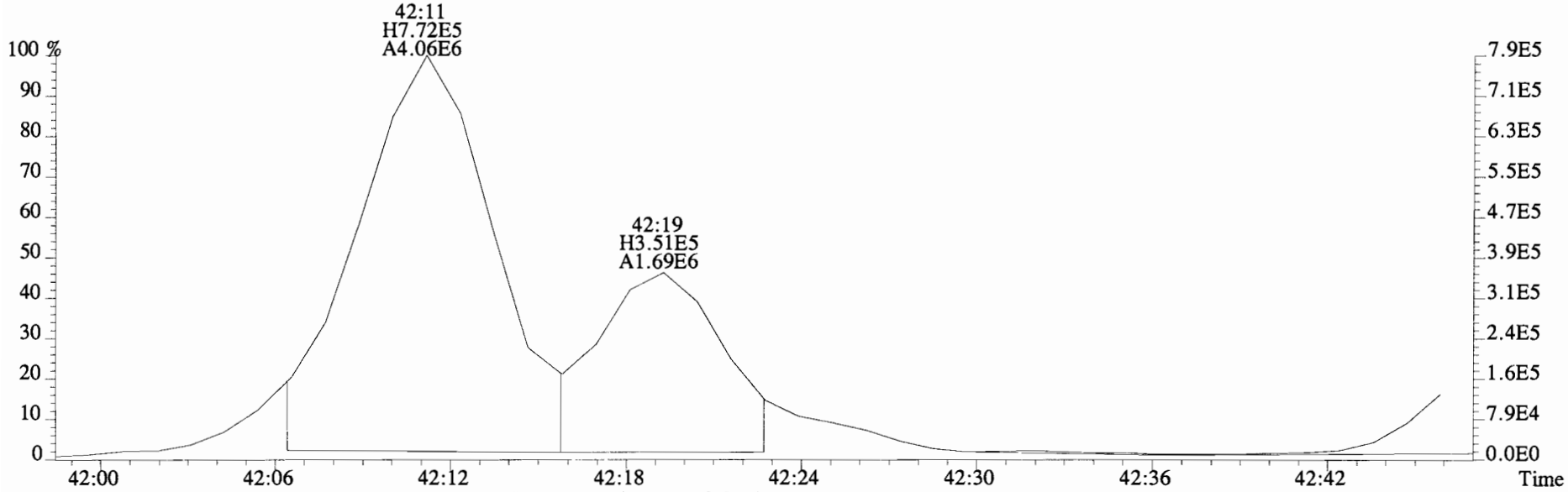
337.9207 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3228.0,0.00%,F,F)



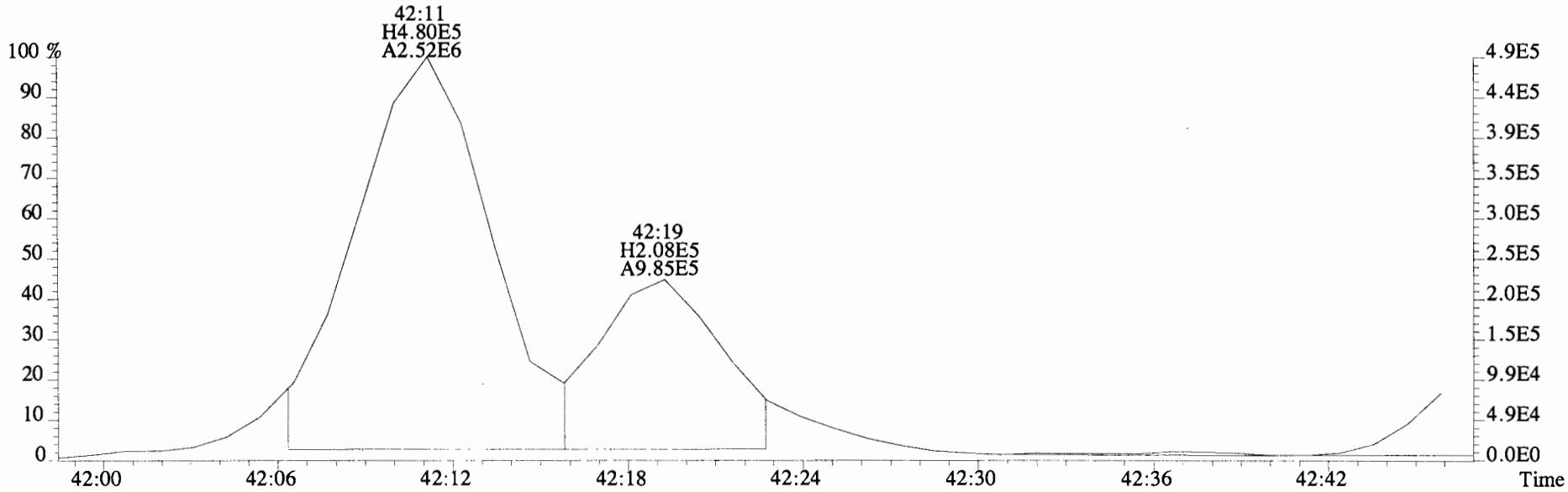
339.9177 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2976.0,0.00%,F,F)



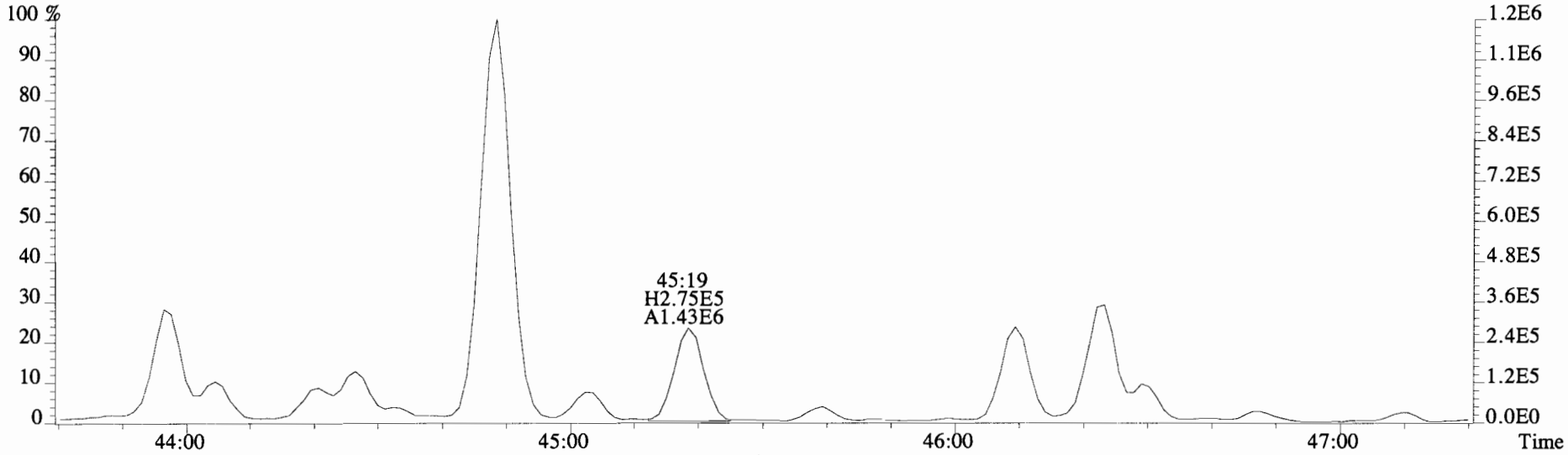
File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13392.0,0.00%,F,F)



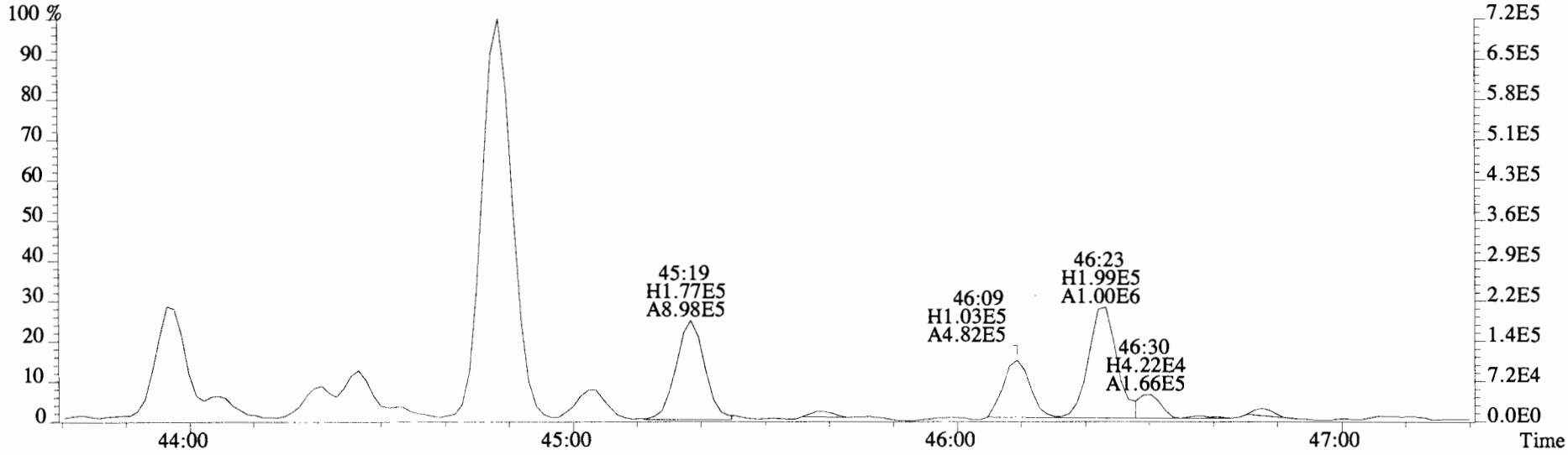
327.8775 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8744.0,0.00%,F,F)



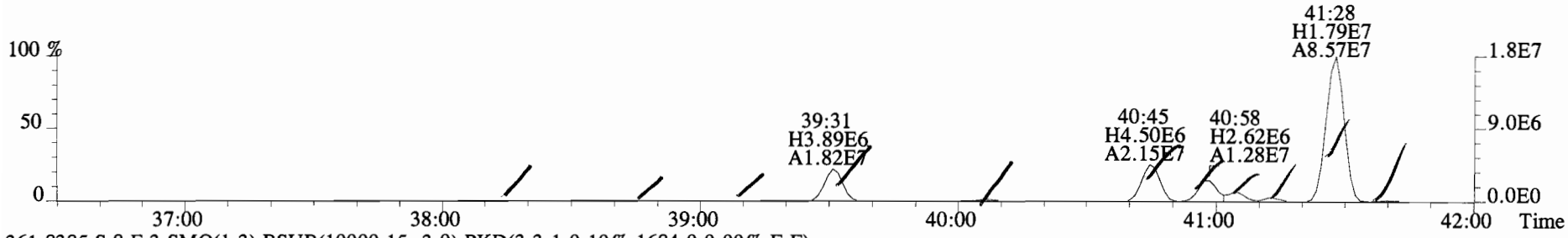
File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13392.0,0.00%,F,F)



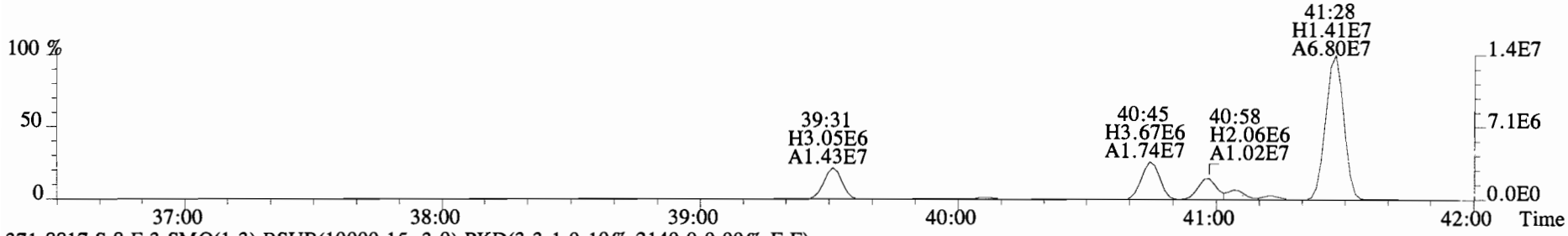
327.8775 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8744.0,0.00%,F,F)



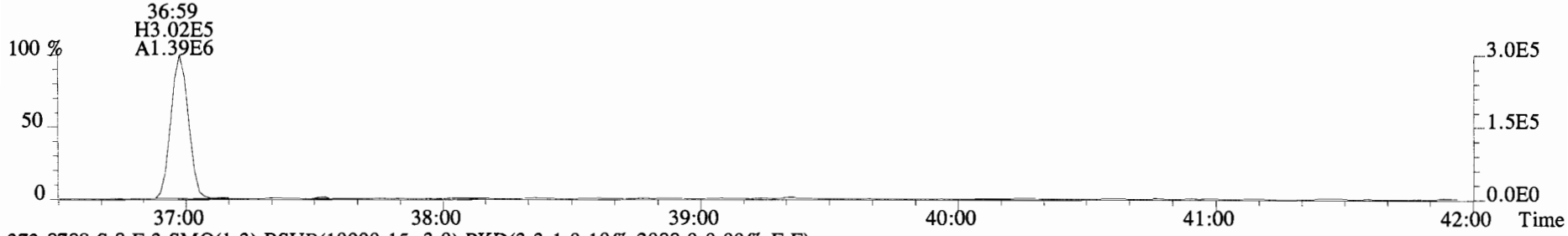
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1772.0,0.00%,F,F)



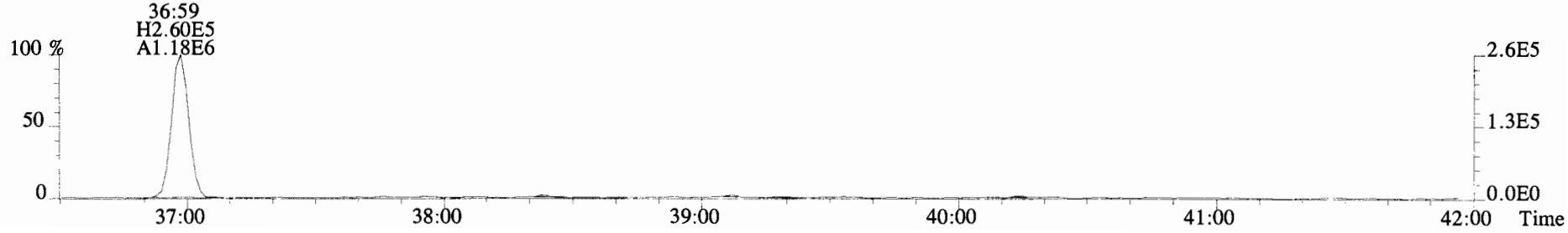
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1684.0,0.00%,F,F)



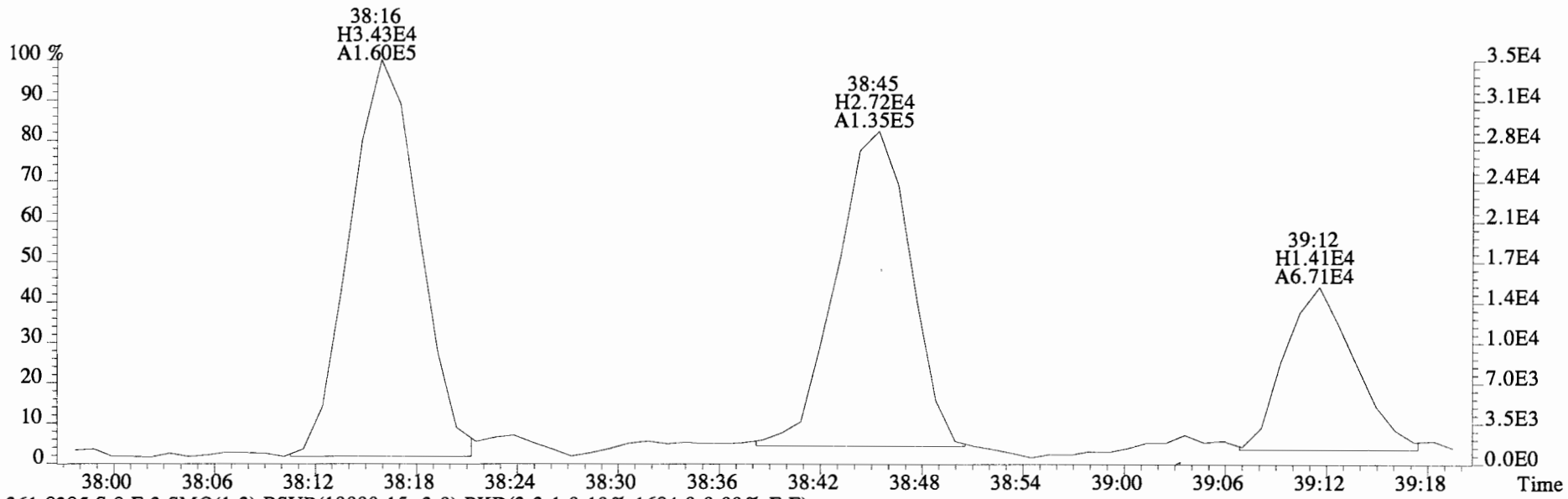
371.8817 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2140.0,0.00%,F,F)



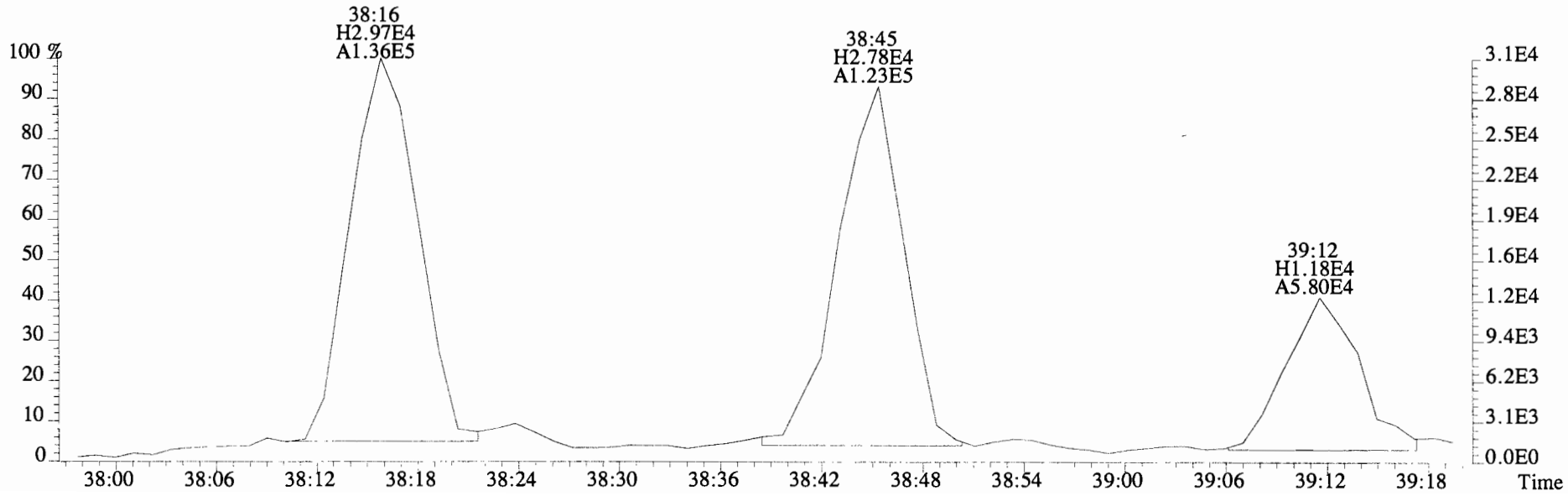
373.8788 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2088.0,0.00%,F,F)



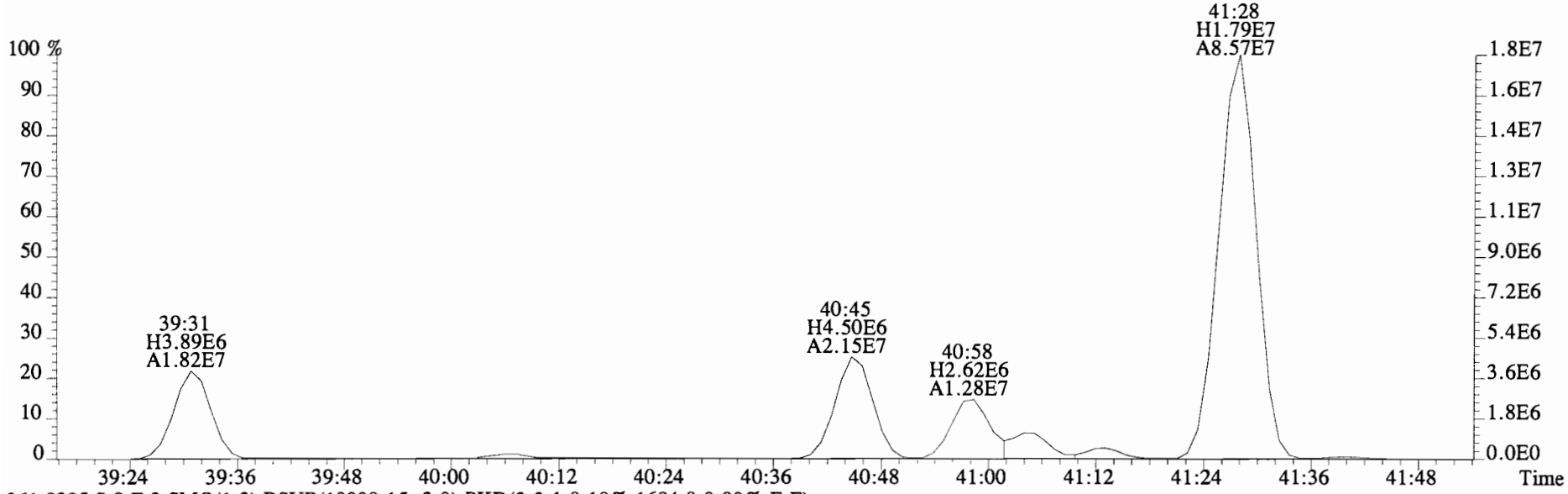
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1772.0,0.00%,F,F)



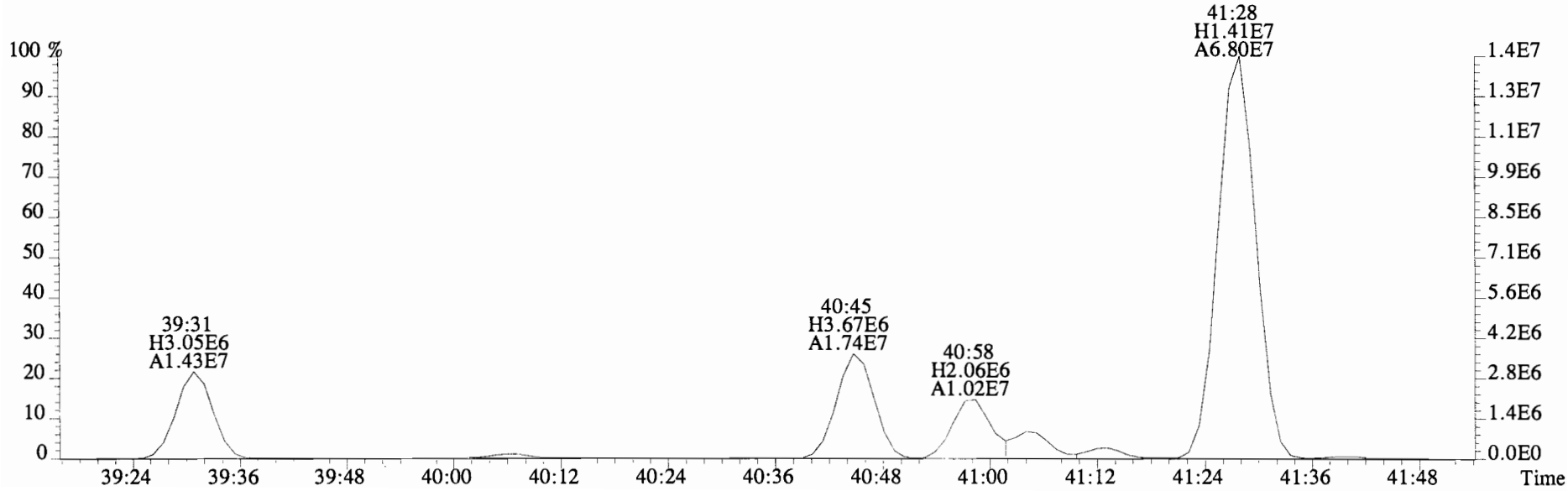
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1684.0,0.00%,F,F)



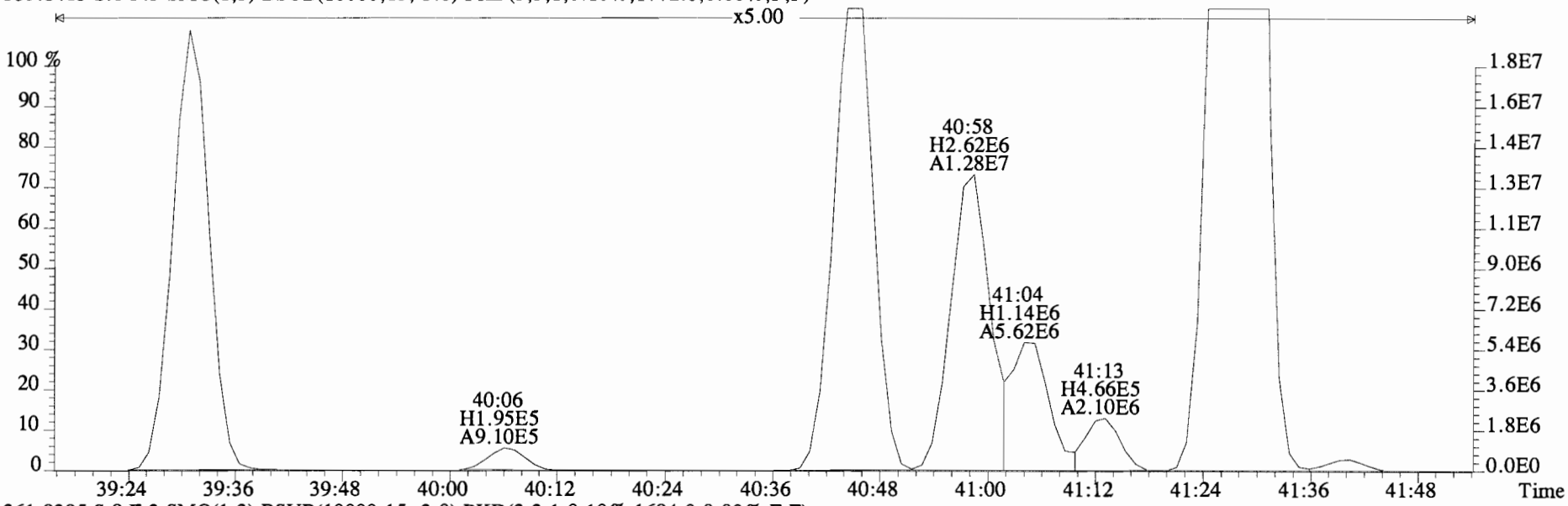
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1772.0,0.00%,F,F)



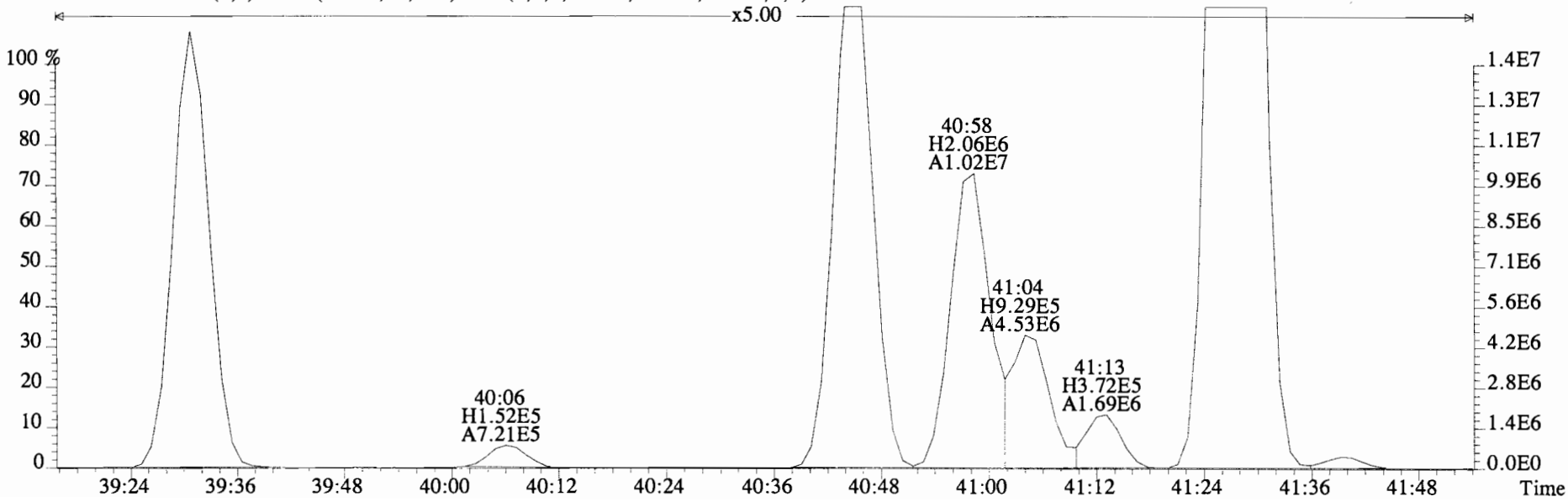
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1684.0,0.00%,F,F)



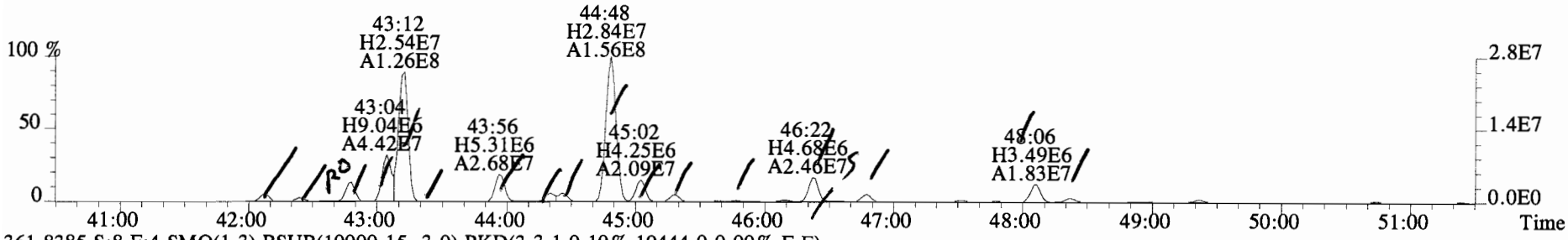
File:141024E2 #1-761 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1772.0,0.00%,F,F)



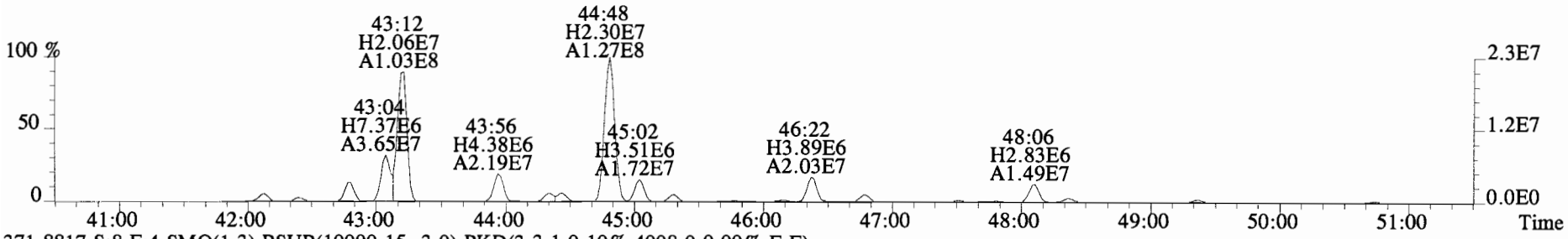
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1684.0,0.00%,F,F)



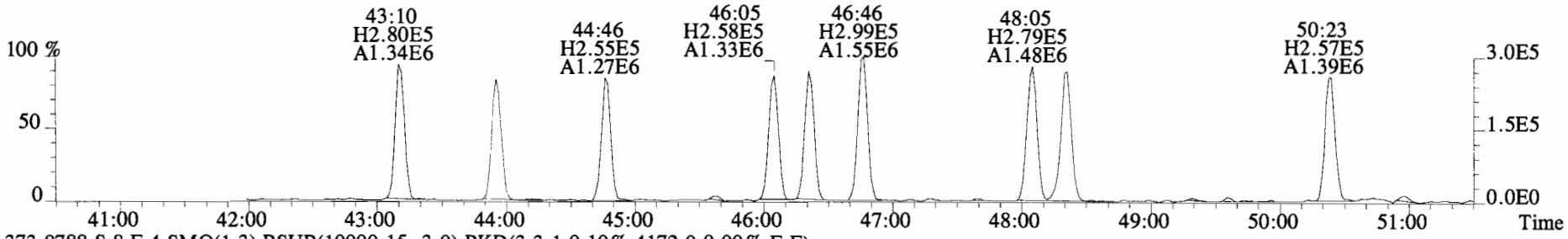
File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20644.0,0.00%,F,F)



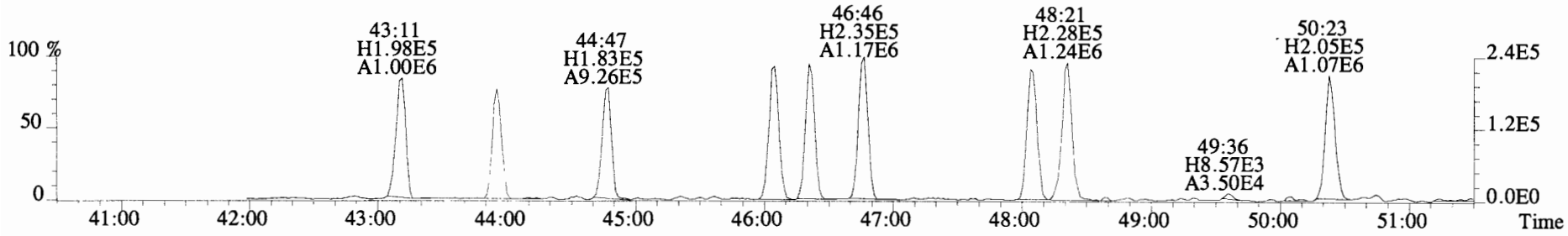
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19444.0,0.00%,F,F)



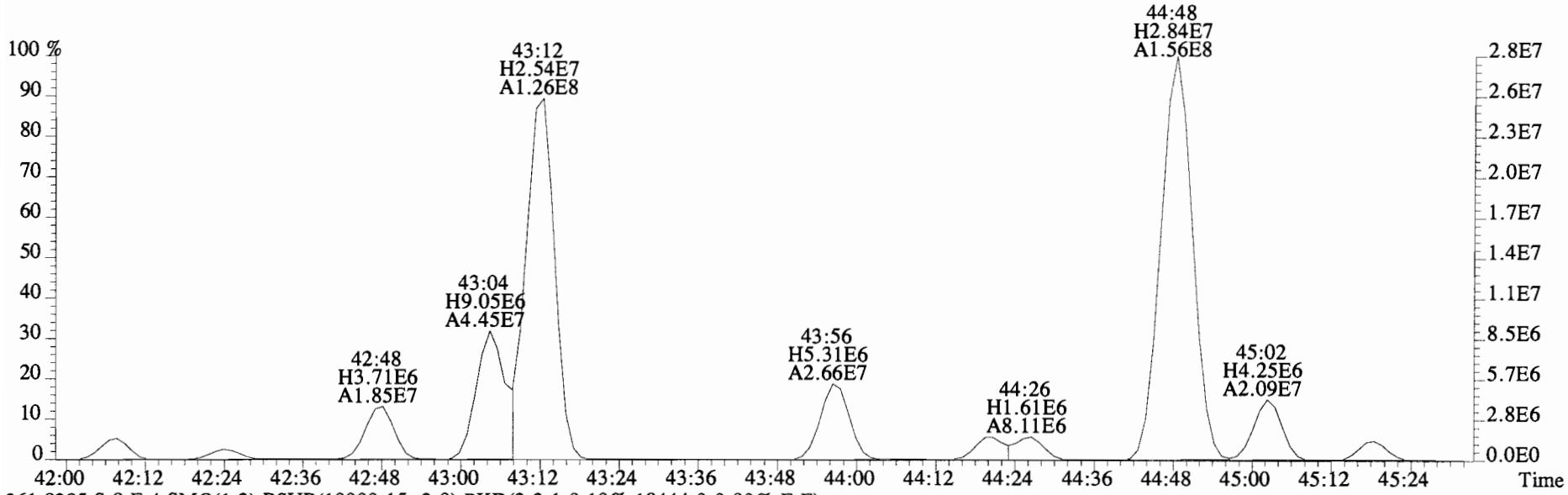
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4008.0,0.00%,F,F)



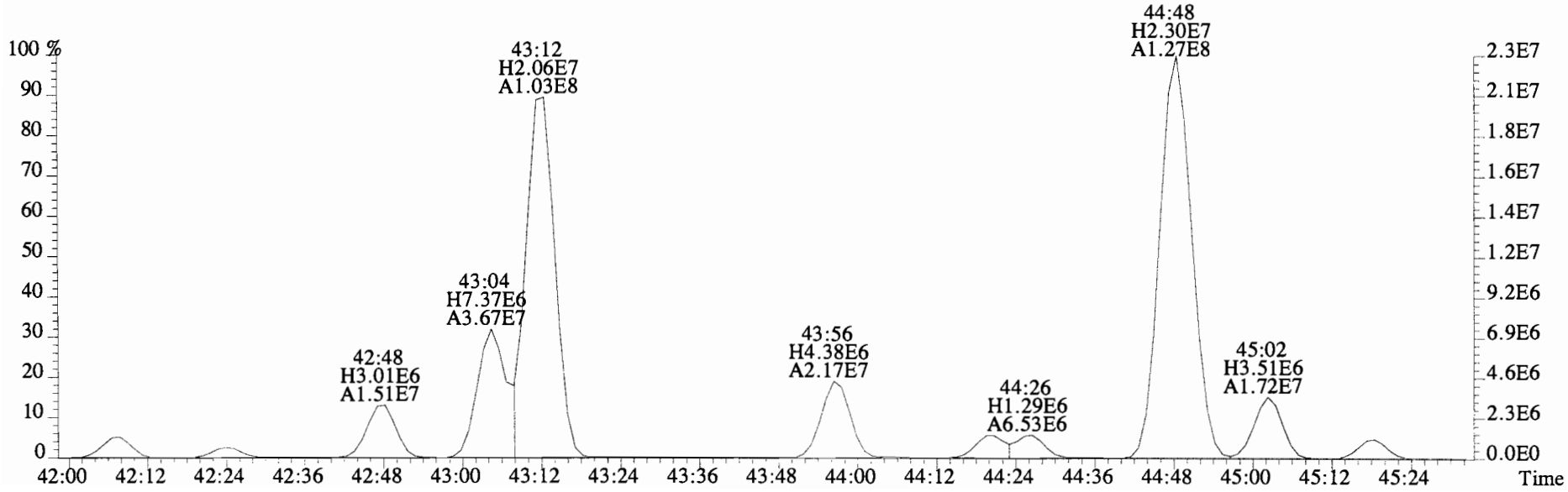
373.8788 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4172.0,0.00%,F,F)

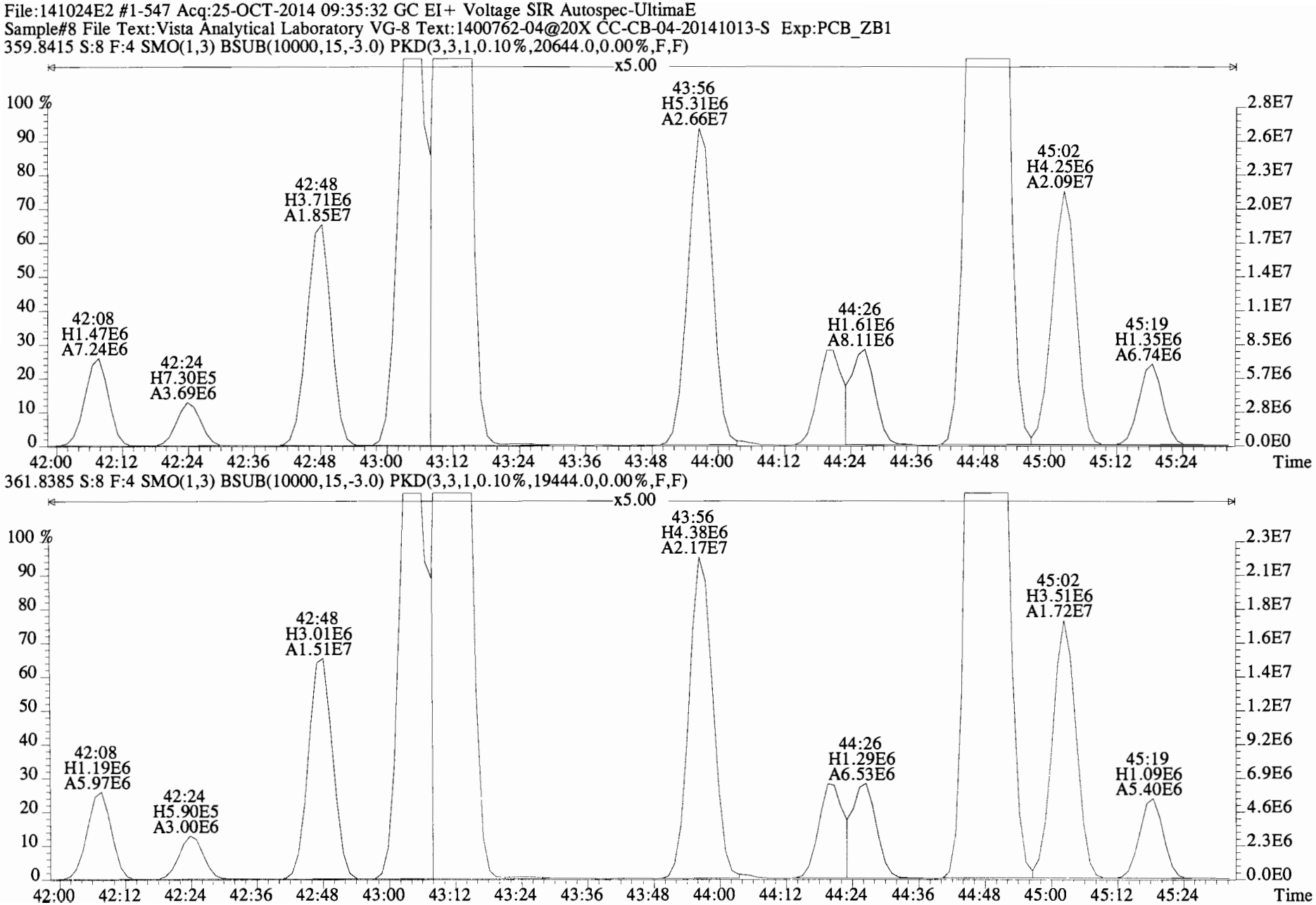


File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20644.0,0.00%,F,F)

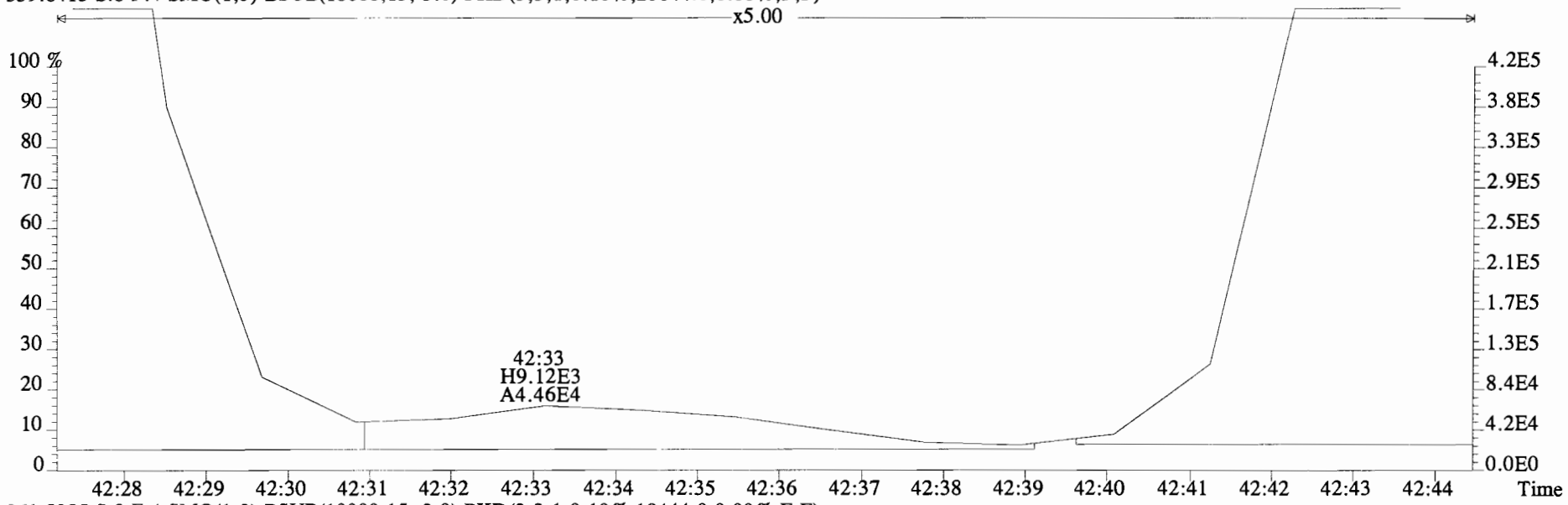


361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19444.0,0.00%,F,F)

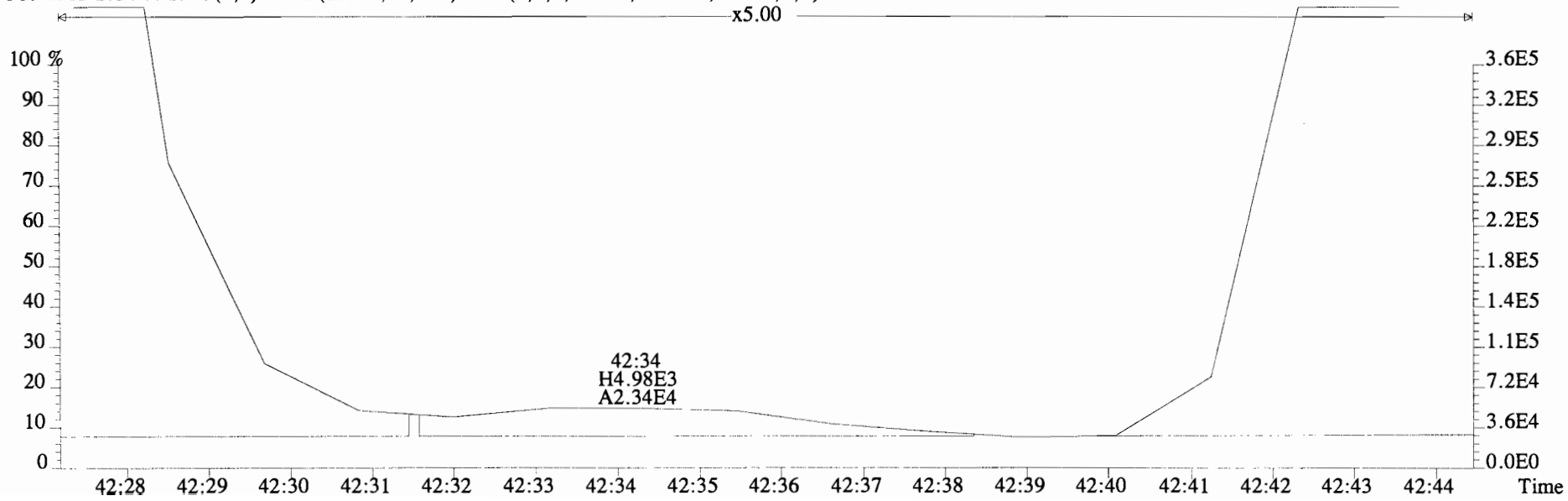



File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20644.0,0.00%,F,F)
x5.00
42:08 H1.47E6 A7.24E6
42:24 H7.30E5 A3.69E6
42:48 H3.71E6 A1.85E7
43:56 H5.31E6 A2.66E7
44:26 H1.61E6 A8.11E6
45:02 H4.25E6 A2.09E7
45:19 H1.35E6 A6.74E6
Time
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19444.0,0.00%,F,F)
x5.00
42:08 H1.19E6 A5.97E6
42:24 H5.90E5 A3.00E6
42:48 H3.01E6 A1.51E7
43:56 H4.38E6 A2.17E7
44:26 H1.29E6 A6.53E6
45:02 H3.51E6 A1.72E7
45:19 H1.09E6 A5.40E6
Time

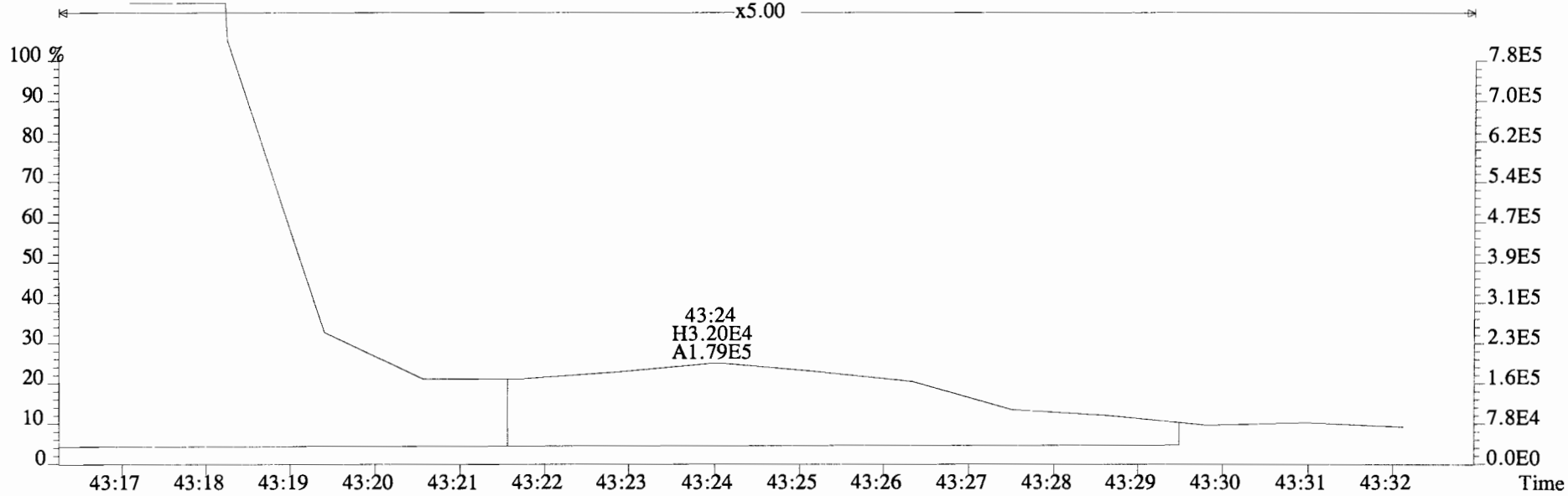
File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20644.0,0.00%,F,F)



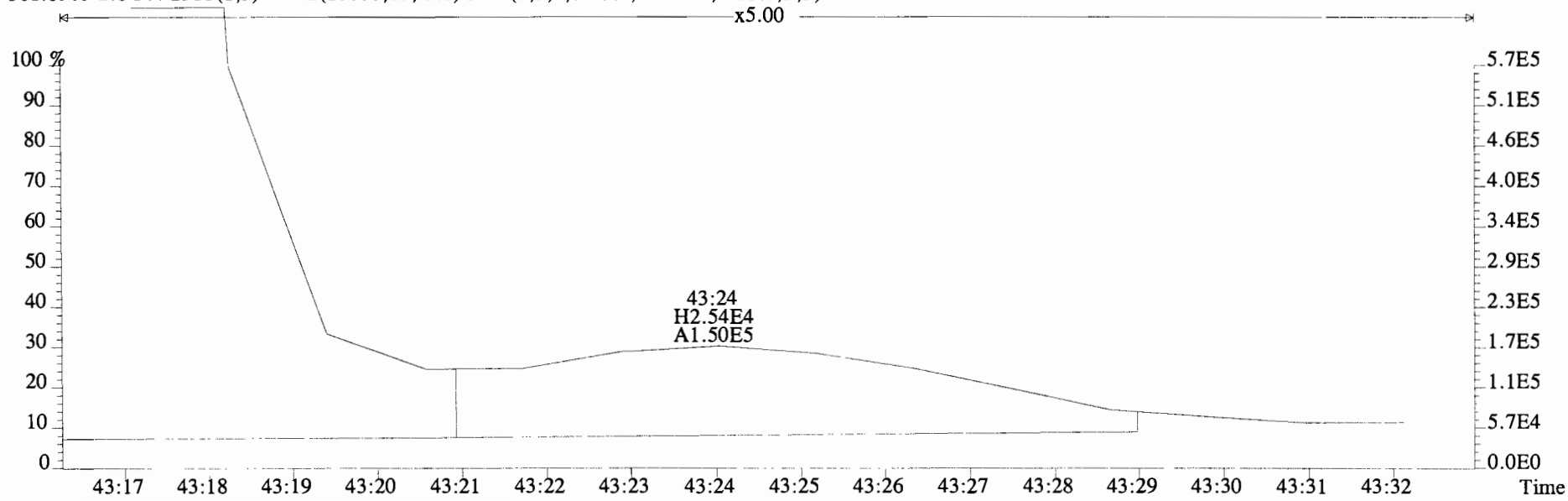
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19444.0,0.00%,F,F)



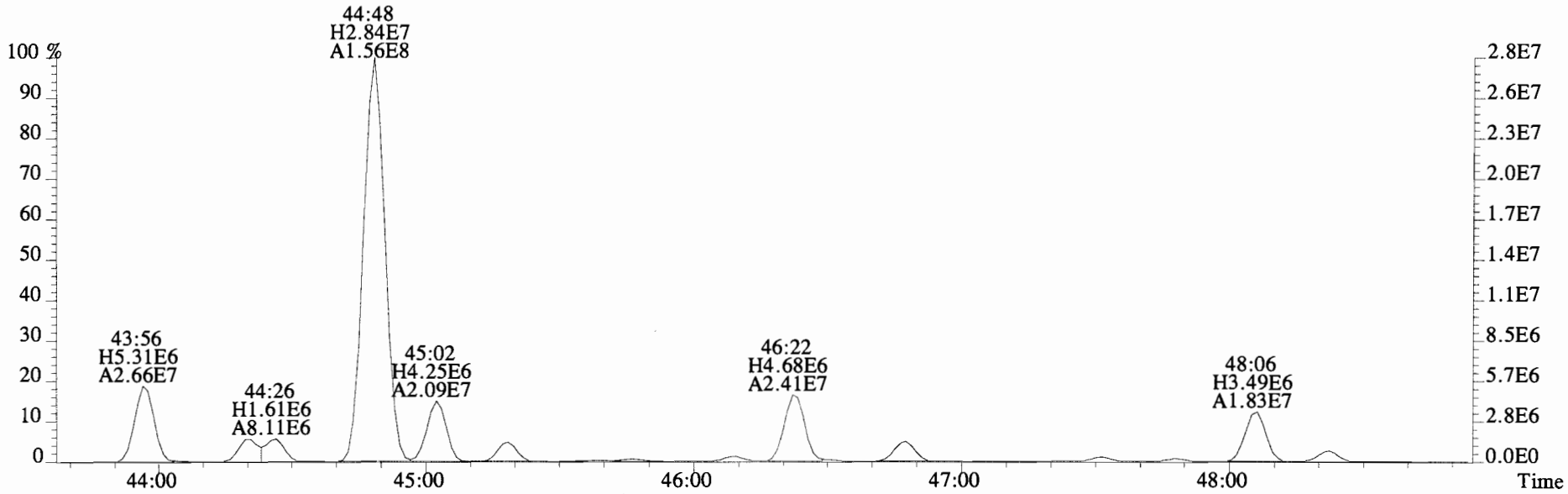
File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20644.0,0.00%,F,F)



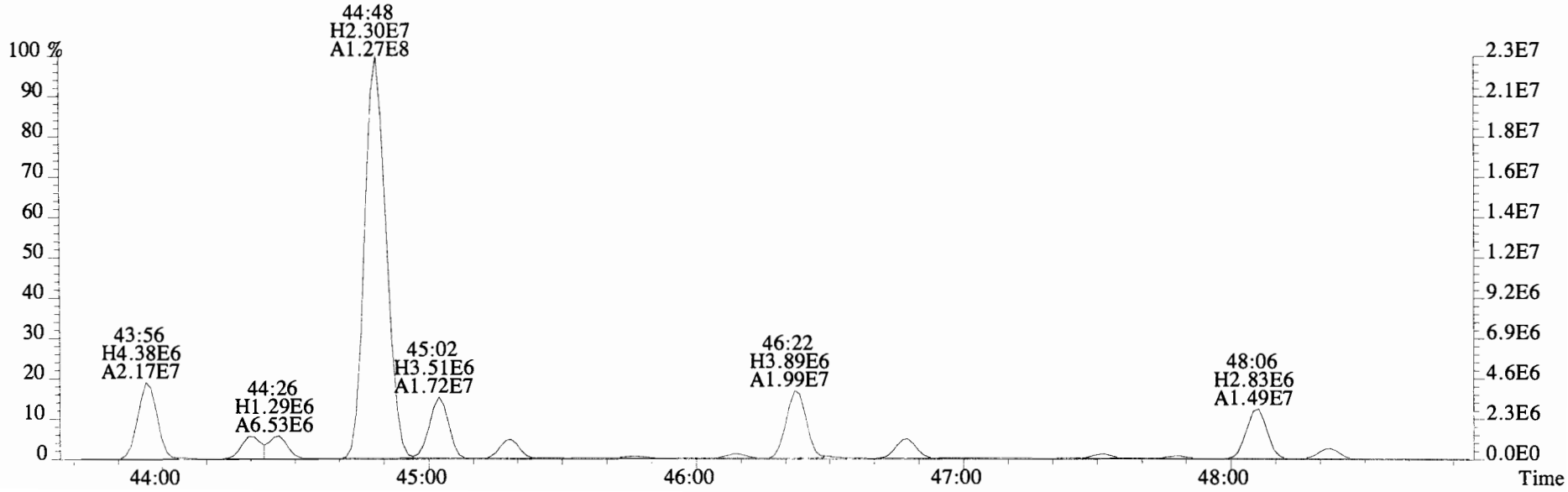
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19444.0,0.00%,F,F)



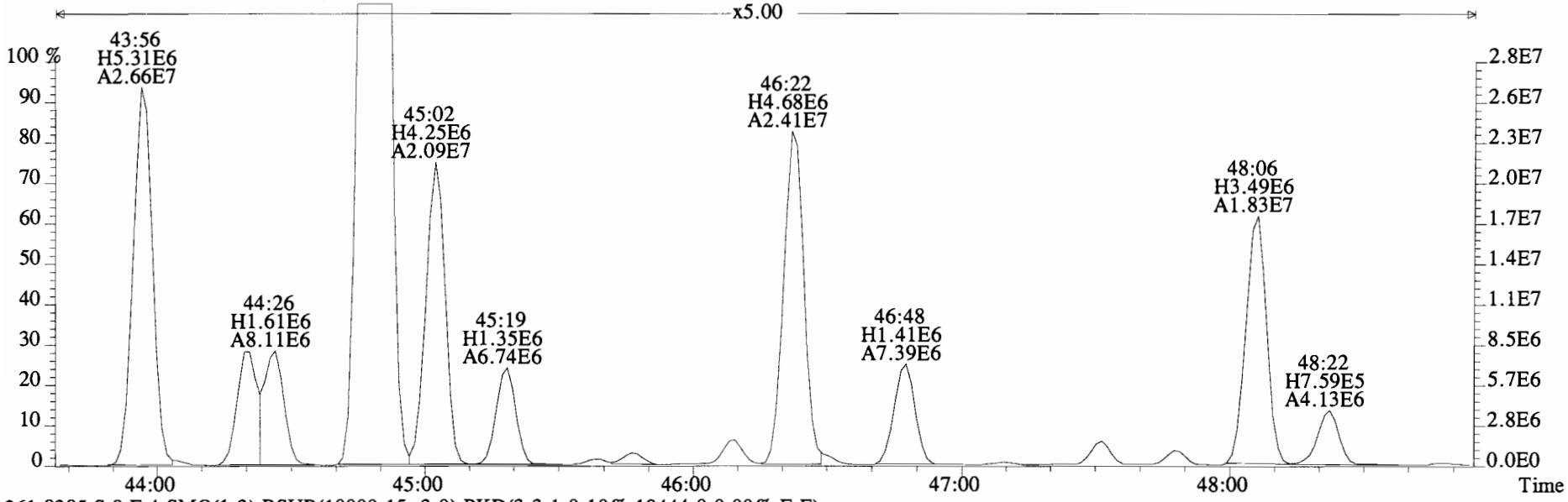
File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20644.0,0.00%,F,F)



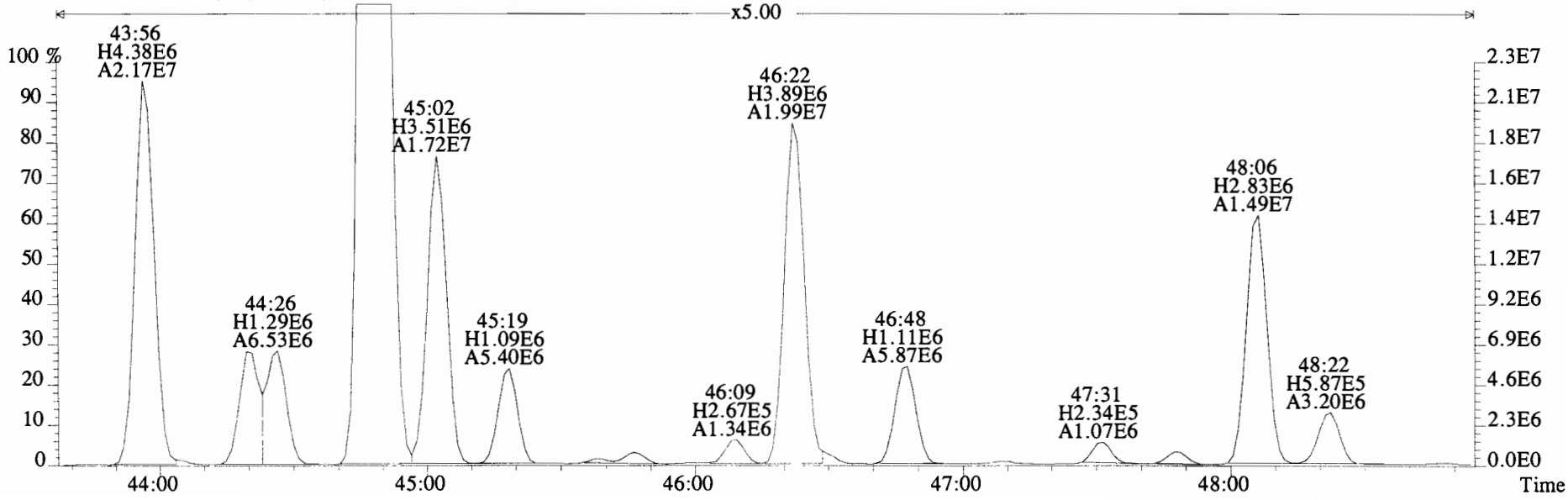
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19444.0,0.00%,F,F)



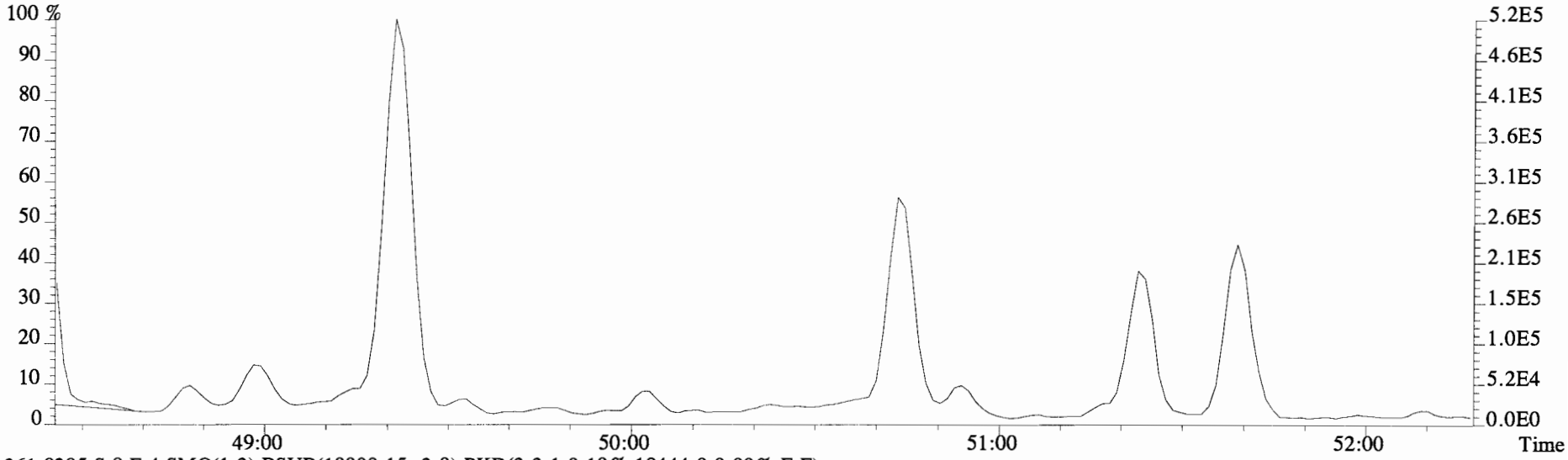
File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20644.0,0.00%,F,F)



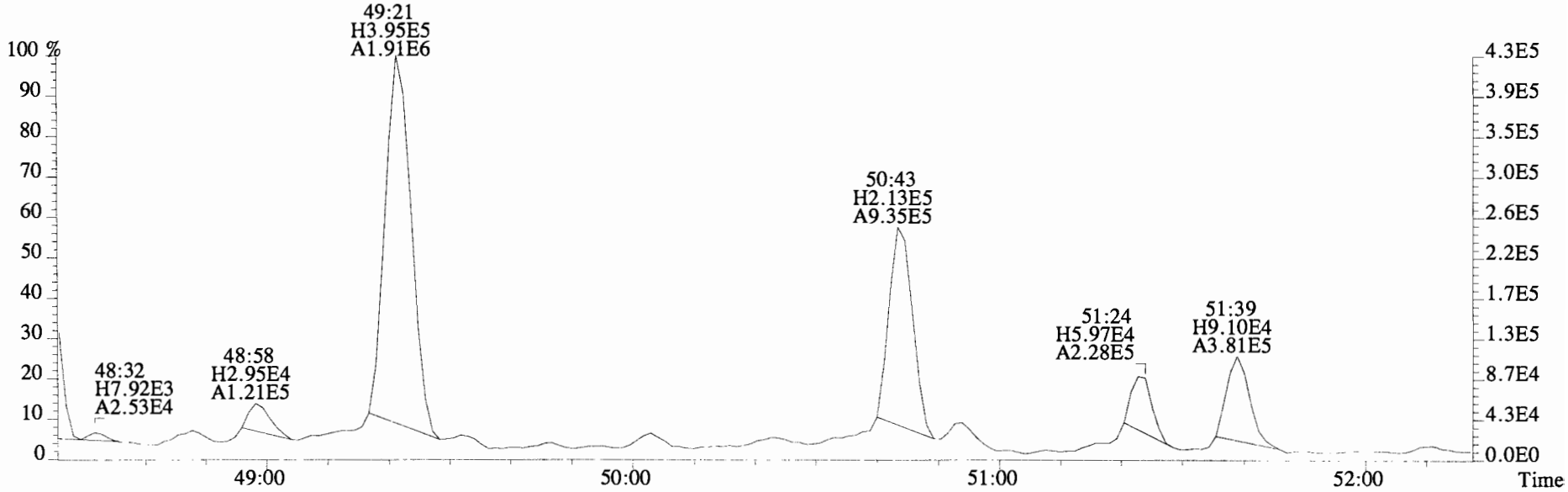
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19444.0,0.00%,F,F)



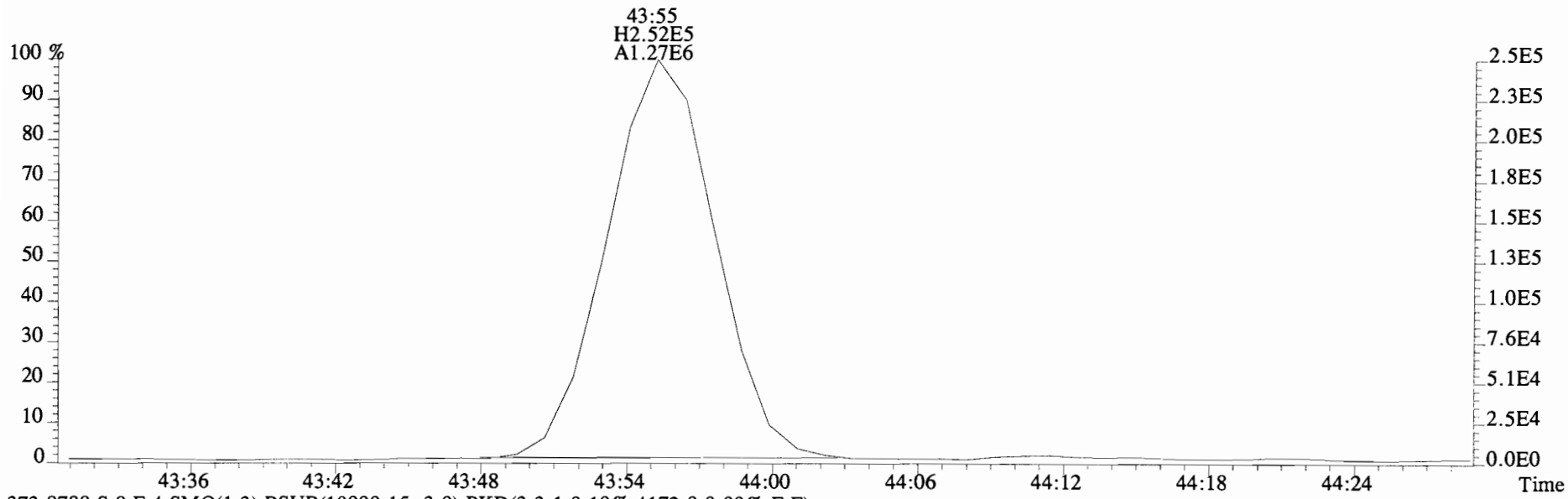
File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20644.0,0.00%,F,F)



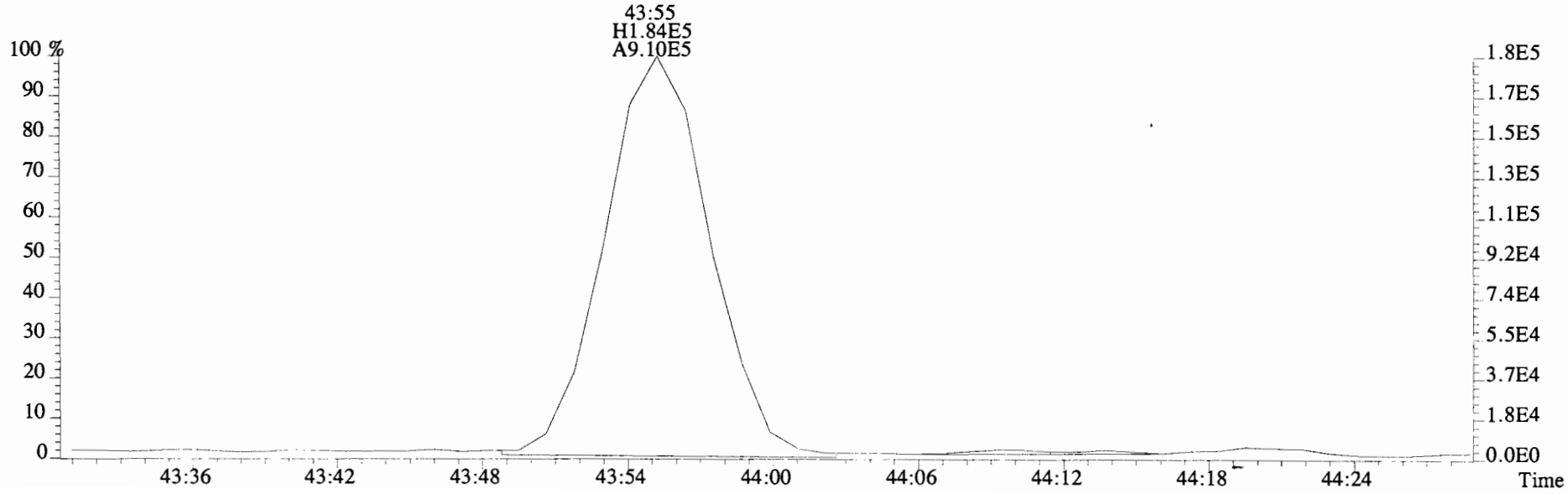
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19444.0,0.00%,F,F)



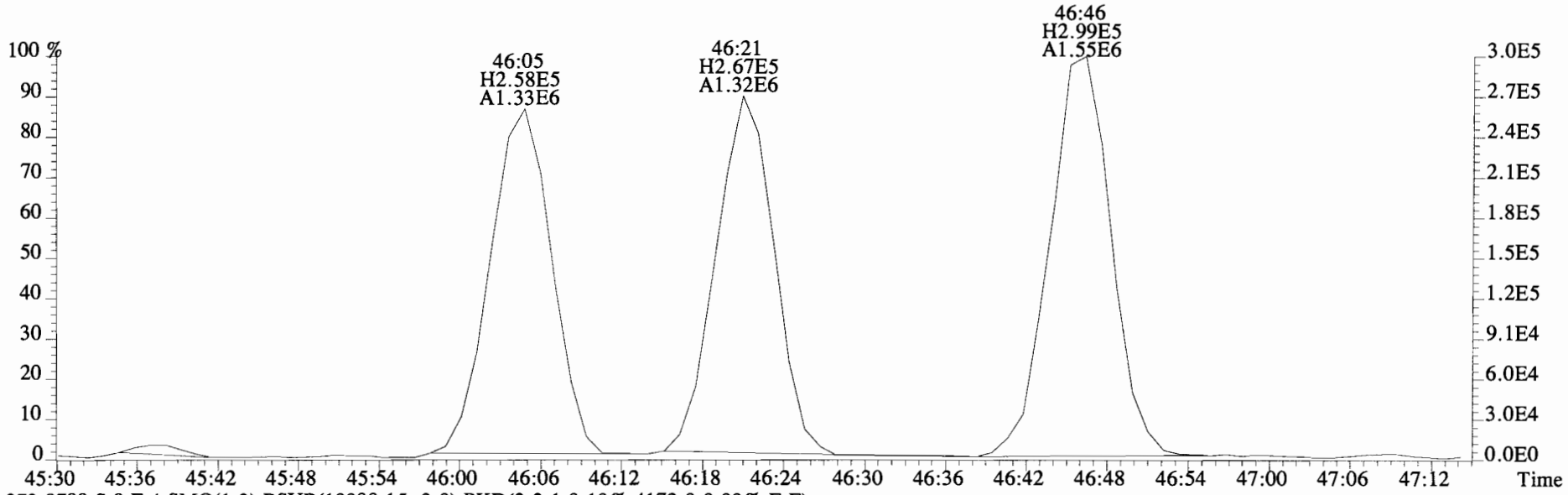
File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4008.0,0.00%,F,F)



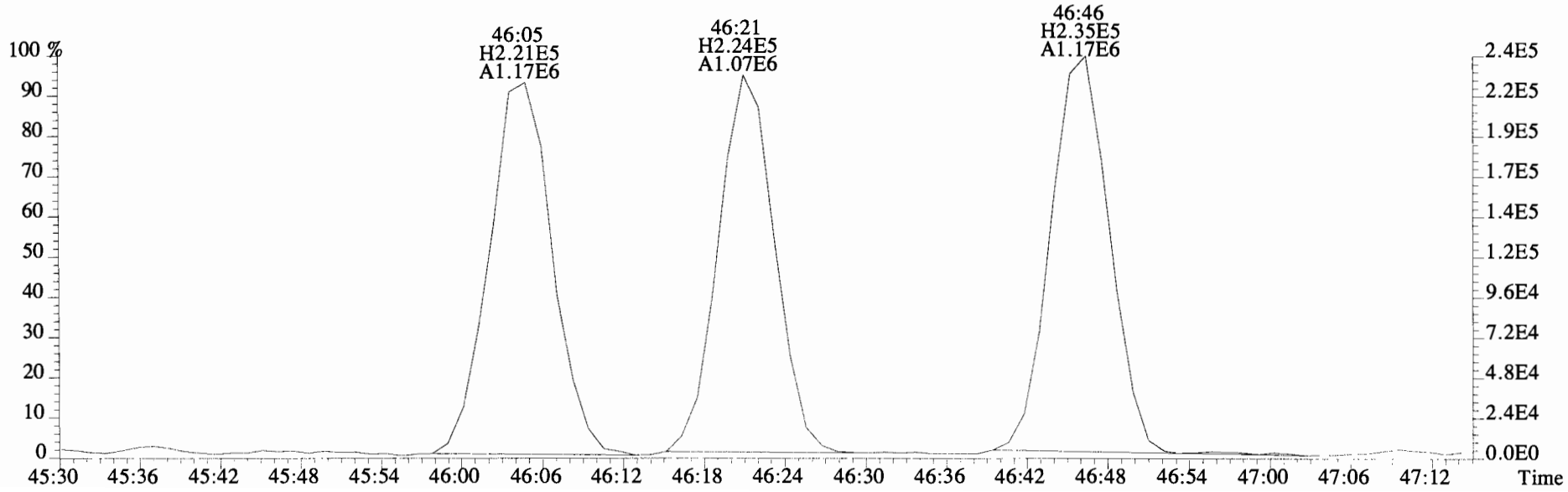
373.8788 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4172.0,0.00%,F,F)



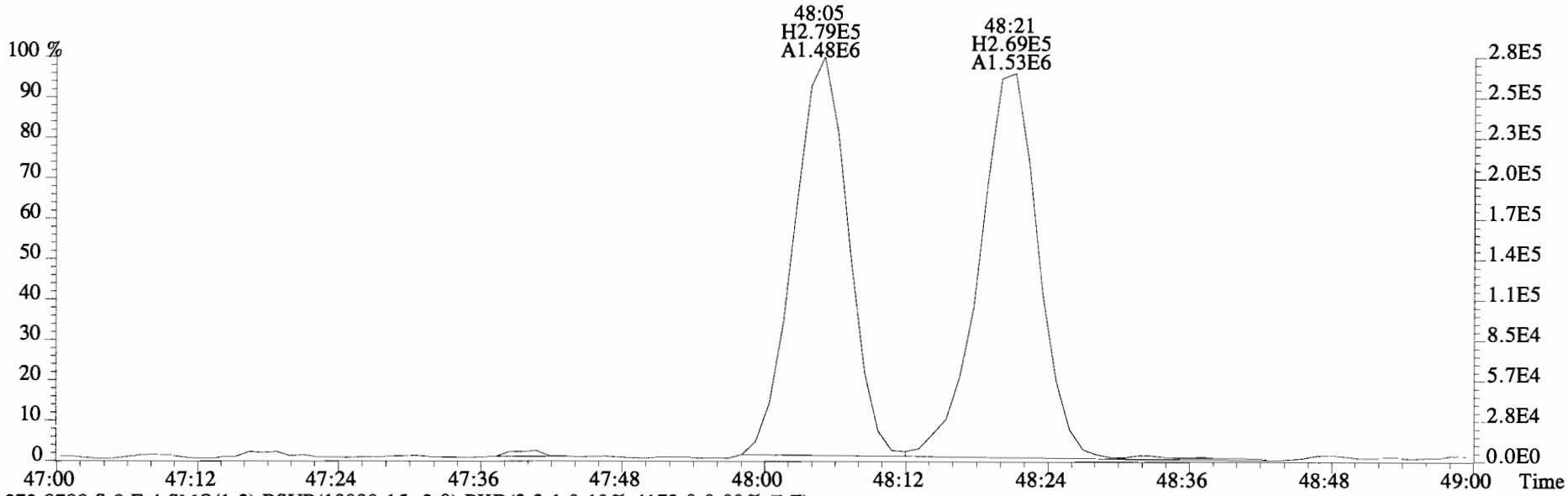
File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4008.0,0.00%,F,F)



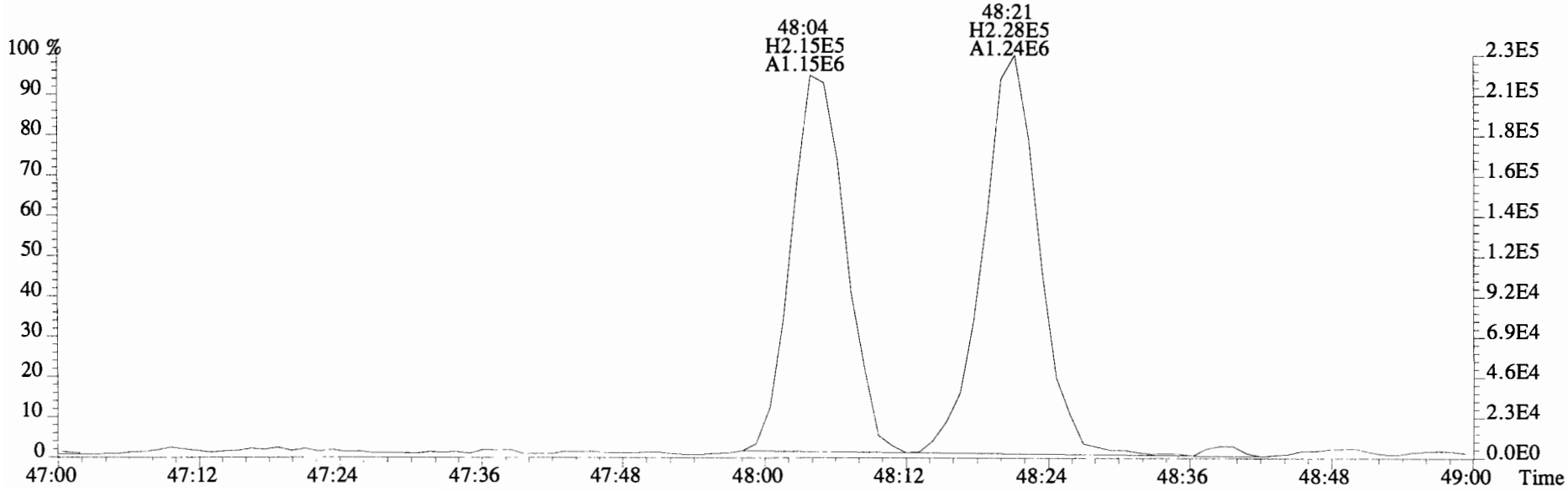
373.8788 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4172.0,0.00%,F,F)

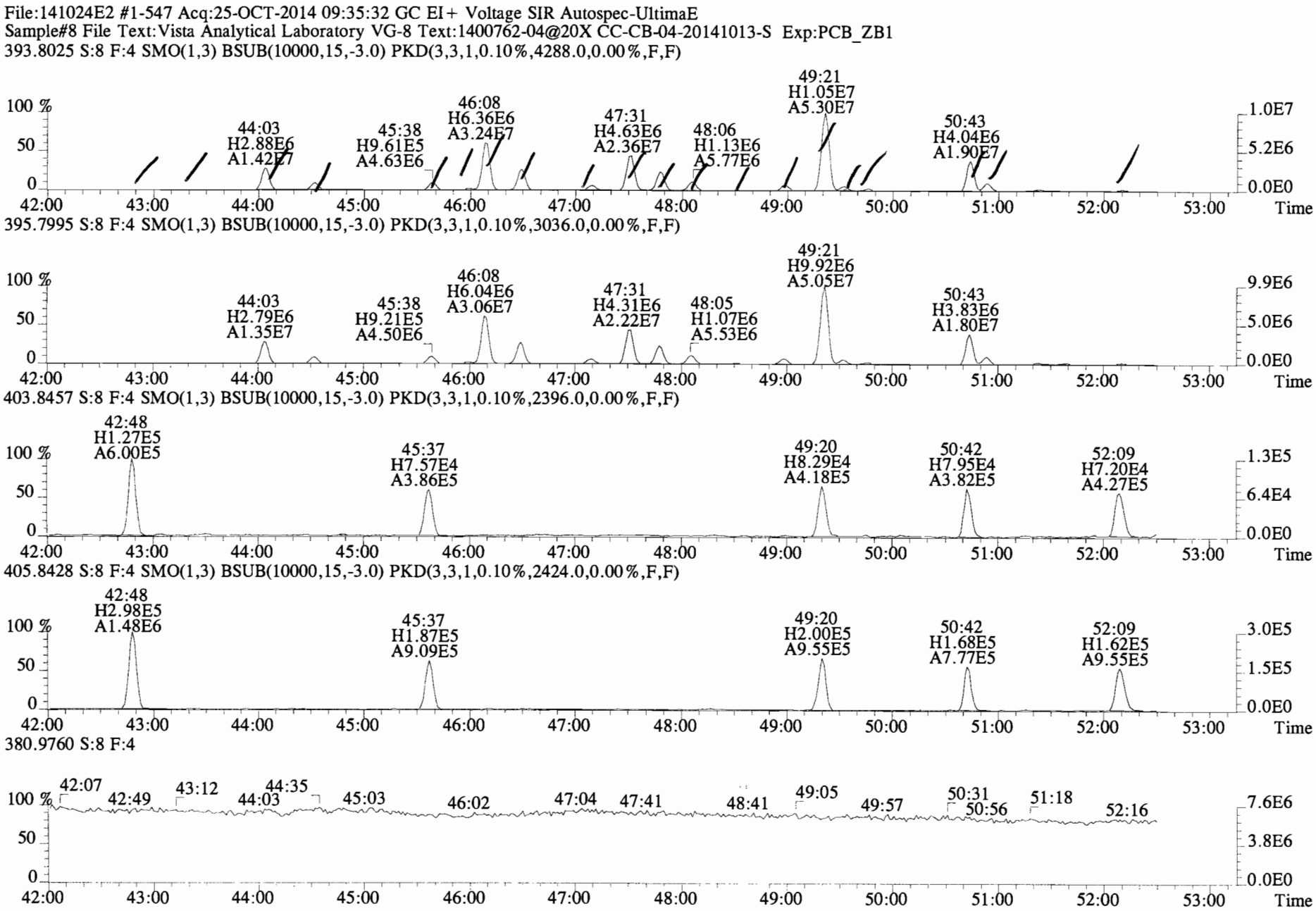


File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4008.0,0.00%,F,F)

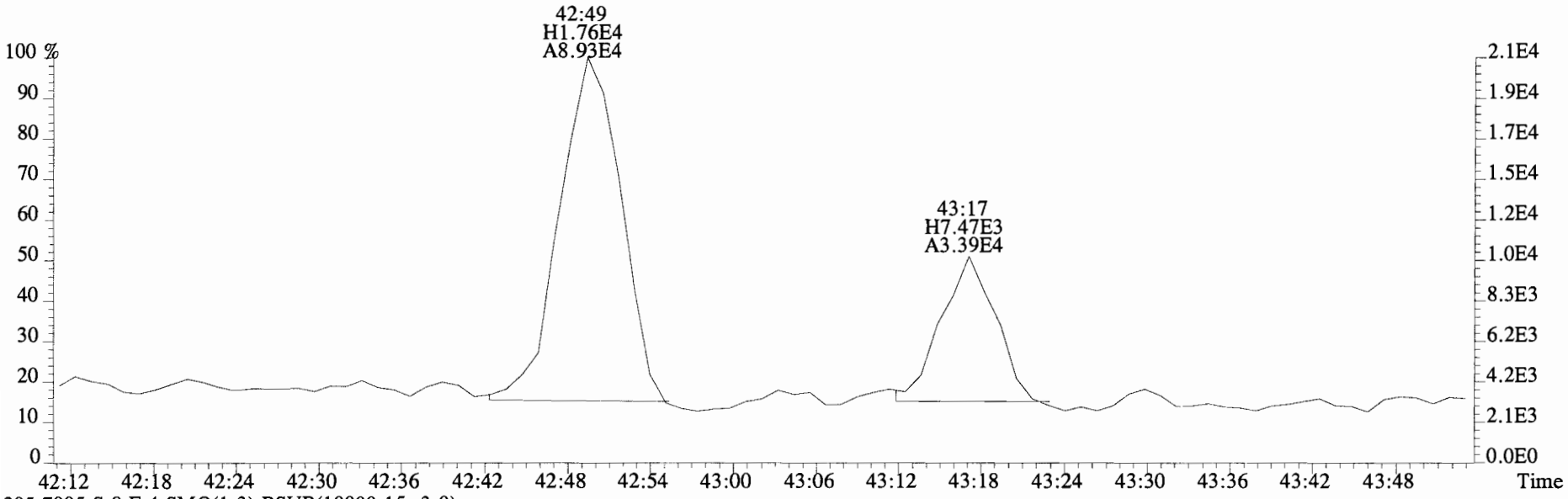


373.8788 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4172.0,0.00%,F,F)

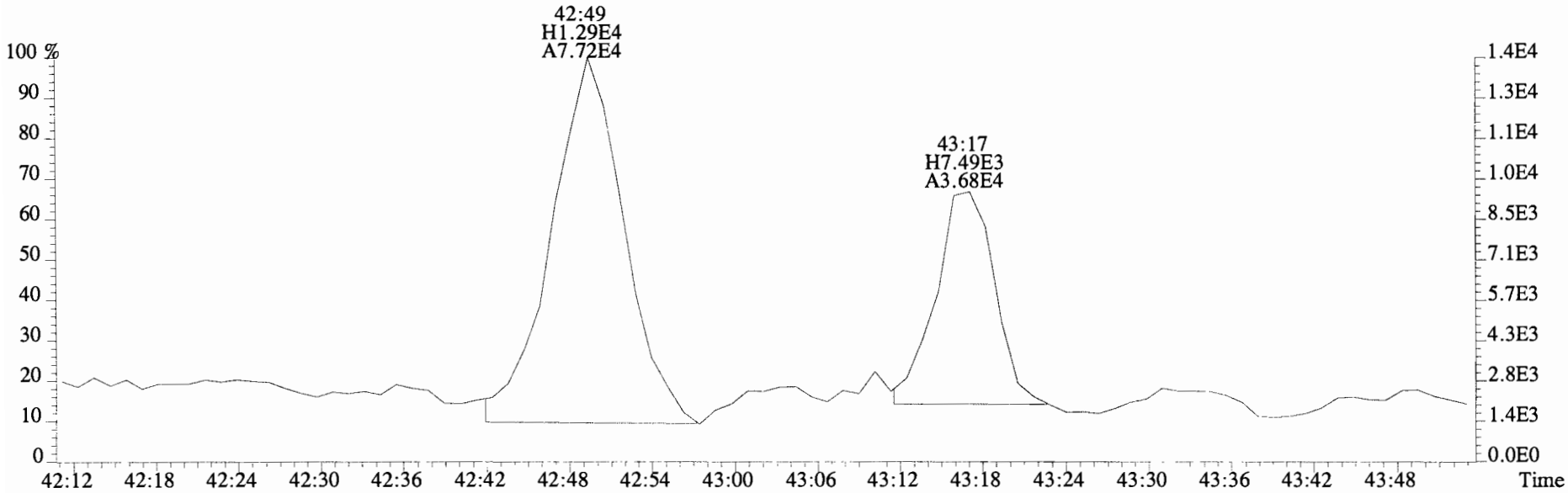



File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4288.0,0.00%,F,F)
44:03 H2.88E6 A1.42E7
45:38 H9.61E5 A4.63E6
46:08 H6.36E6 A3.24E7
47:31 H4.63E6 A2.36E7
48:06 H1.13E6 A5.77E6
49:21 H1.05E7 A5.30E7
50:43 H4.04E6 A1.90E7
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3036.0,0.00%,F,F)
44:03 H2.79E6 A1.35E7
45:38 H9.21E5 A4.50E6
46:08 H6.04E6 A3.06E7
47:31 H4.31E6 A2.22E7
48:05 H1.07E6 A5.53E6
49:21 H9.92E6 A5.05E7
50:43 H3.83E6 A1.80E7
403.8457 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2396.0,0.00%,F,F)
42:48 H1.27E5 A6.00E5
45:37 H7.57E4 A3.86E5
49:20 H8.29E4 A4.18E5
50:42 H7.95E4 A3.82E5
52:09 H7.20E4 A4.27E5
405.8428 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2424.0,0.00%,F,F)
42:48 H2.98E5 A1.48E6
45:37 H1.87E5 A9.09E5
49:20 H2.00E5 A9.55E5
50:42 H1.68E5 A7.77E5
52:09 H1.62E5 A9.55E5
380.9760 S:8 F:4
42:07
42:49
43:12
44:03
44:35
45:03
46:02
47:04
47:41
48:41
49:05
49:57
50:31
50:56
51:18
52:16
100 %
50
0
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
51:00
52:00
53:00
Time
1.0E7
5.2E6
0.0E0
9.9E6
5.0E6
1.3E5
6.4E4
3.0E5
1.5E5
7.6E6
3.8E6

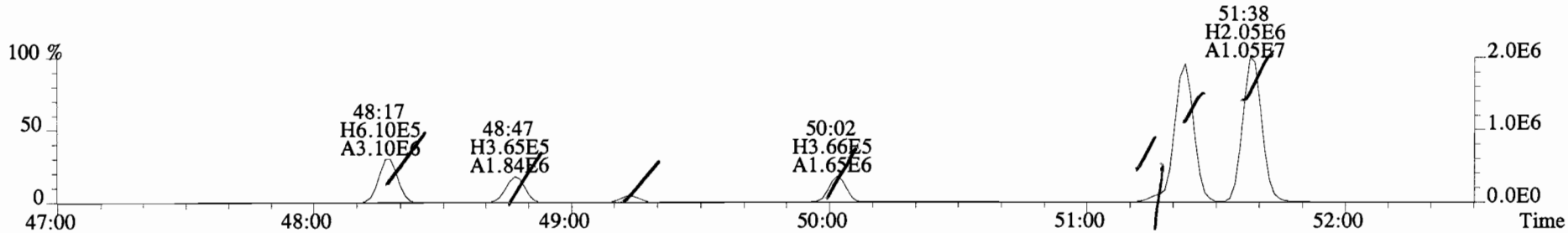
File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



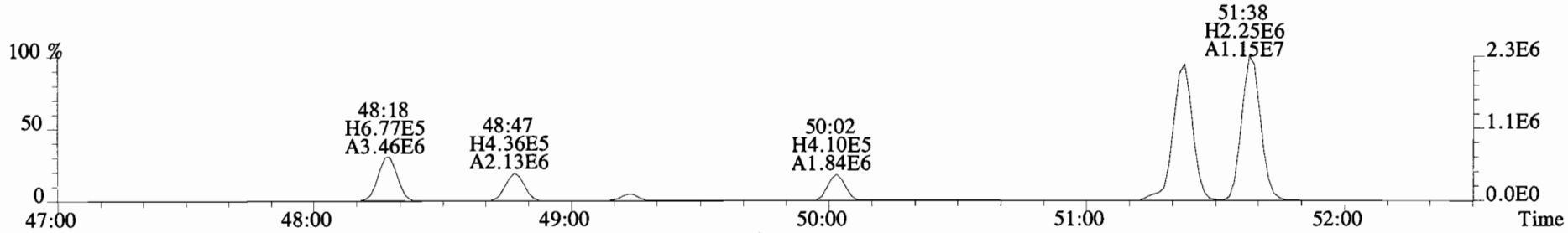
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



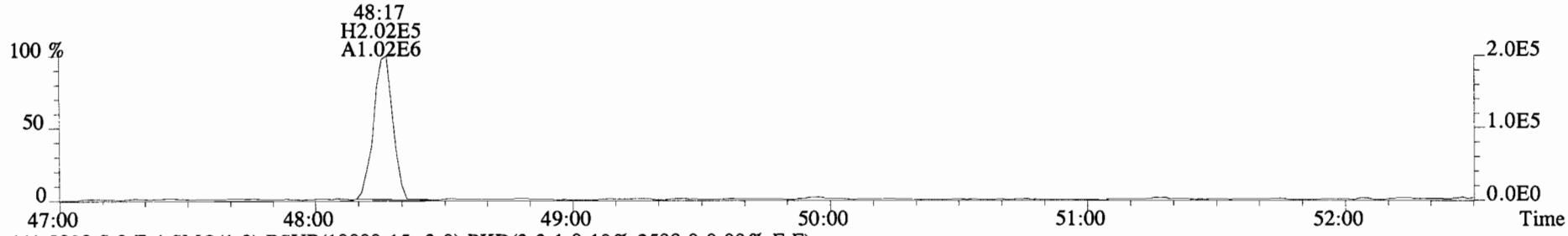
File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
427.7635 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2108.0,0.00%,F,F)



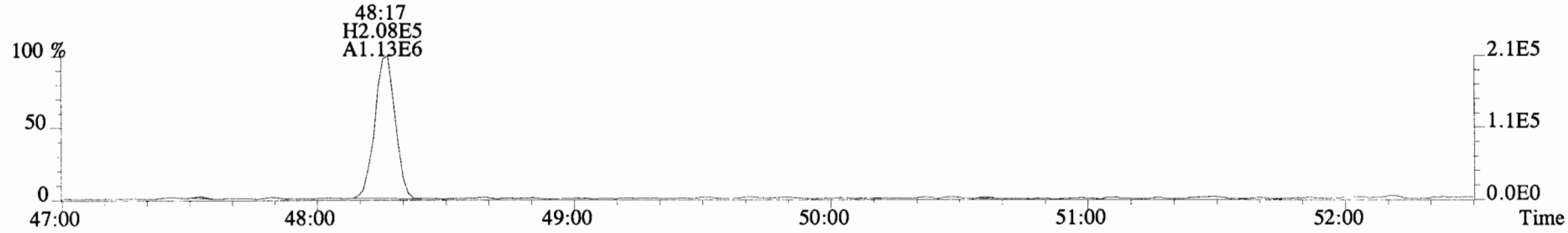
429.7606 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2636.0,0.00%,F,F)



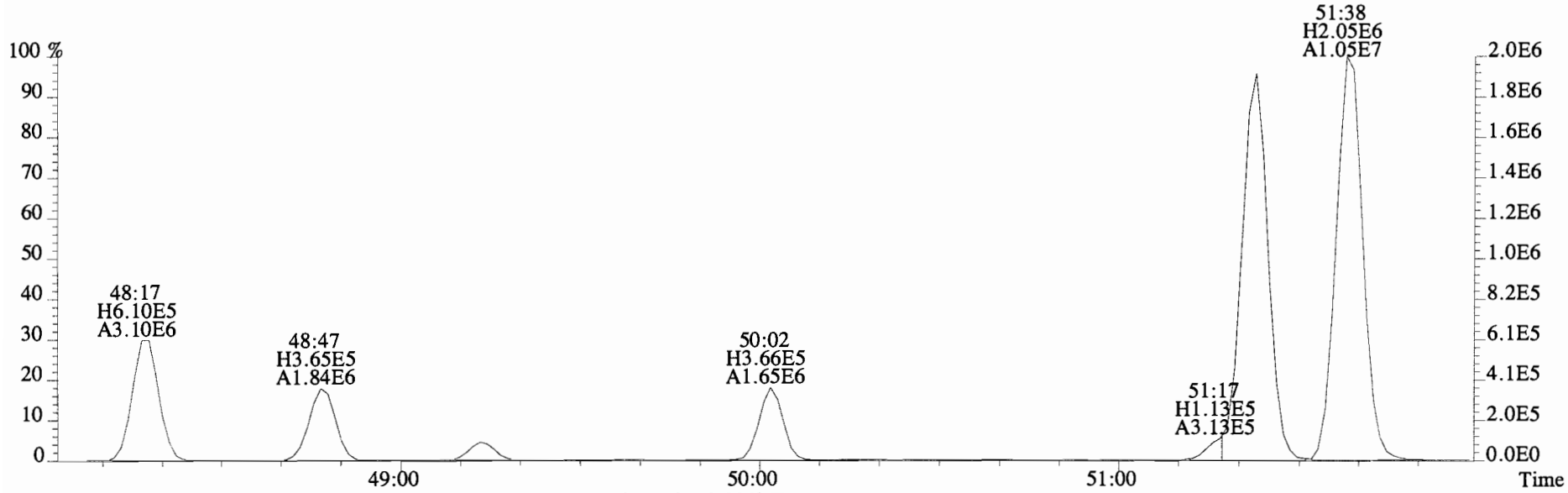
439.8038 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2108.0,0.00%,F,F)



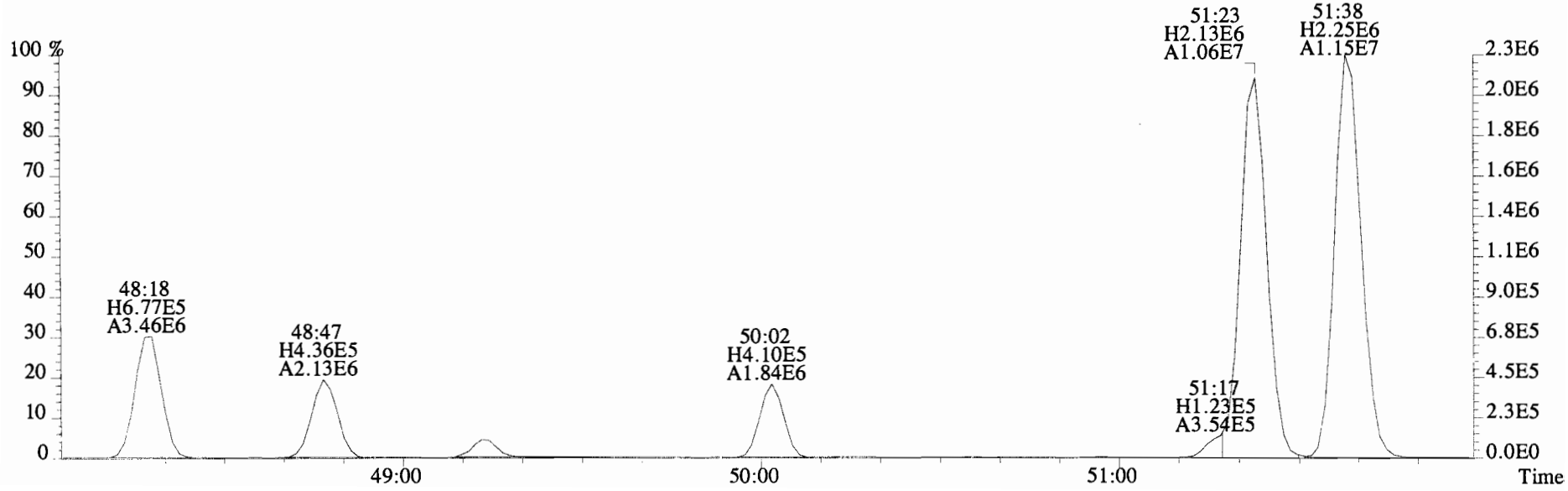
441.8008 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2508.0,0.00%,F,F)



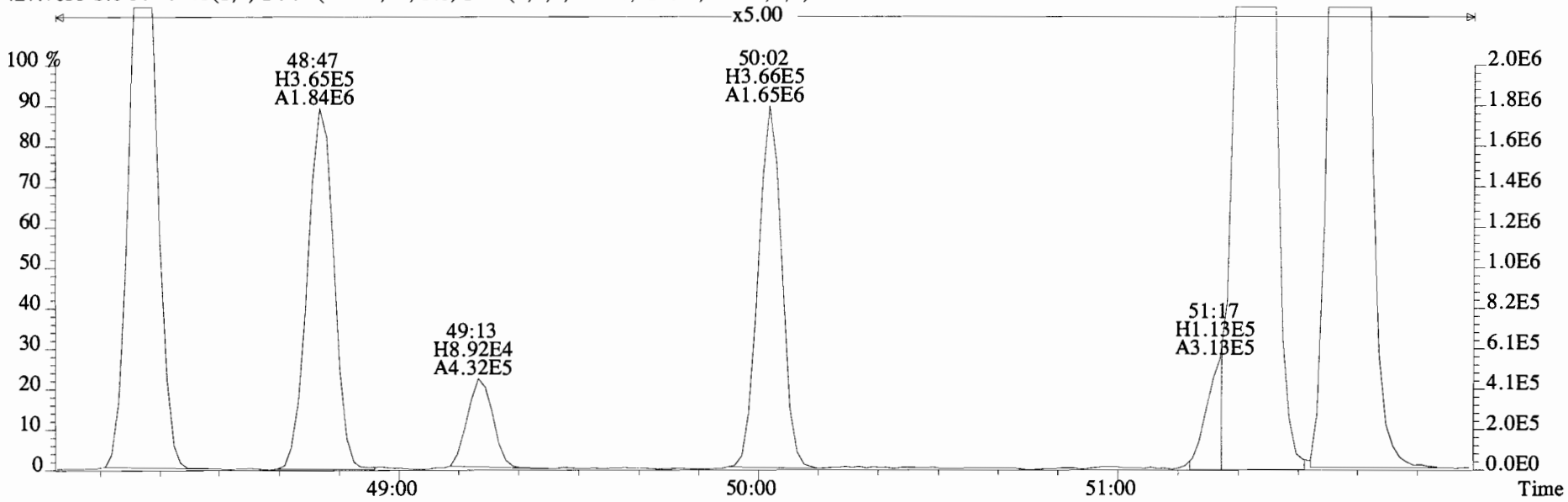
File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
427.7635 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2108.0,0.00%,F,F)



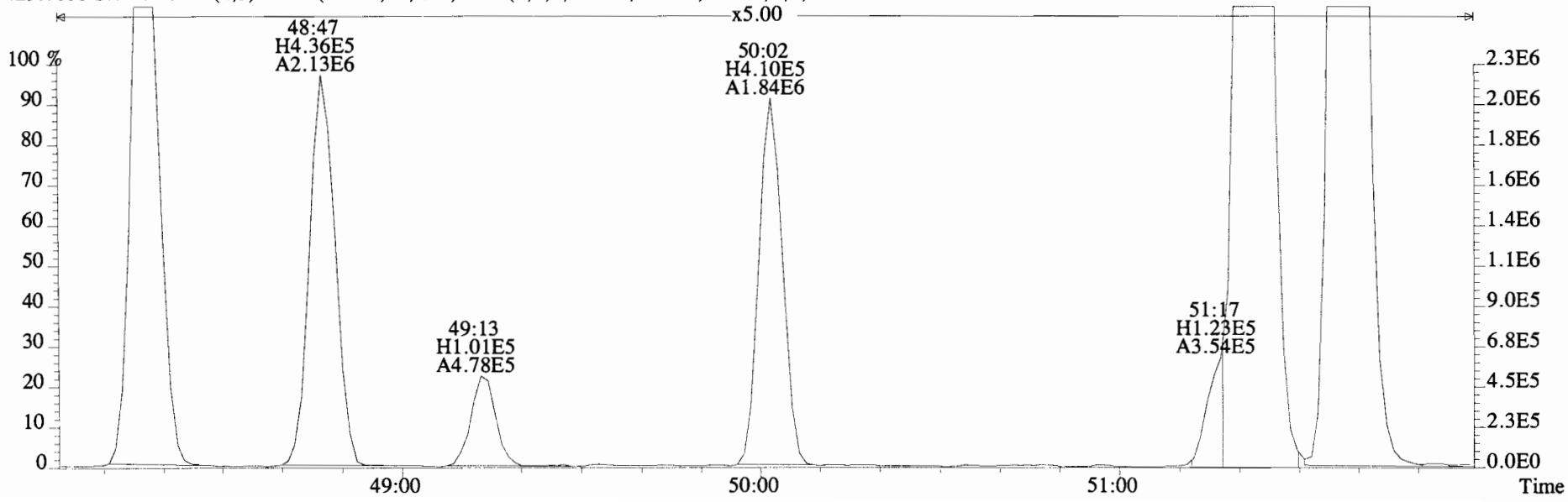
429.7606 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2636.0,0.00%,F,F)



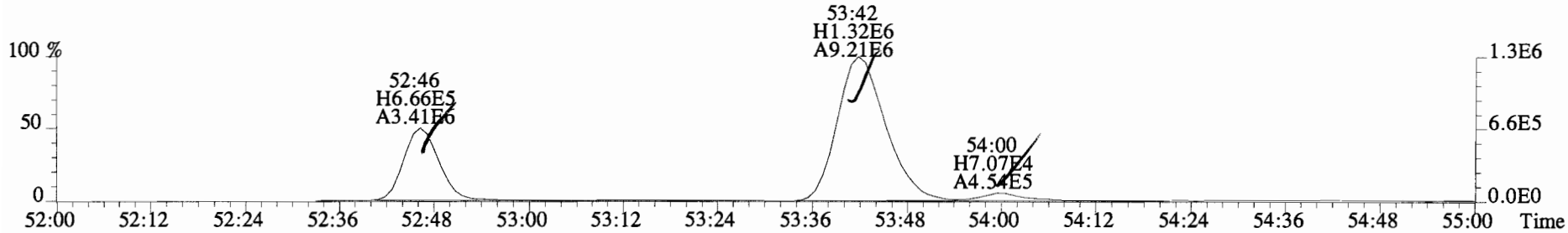
File:141024E2 #1-547 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
427.7635 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2108.0,0.00%,F,F)



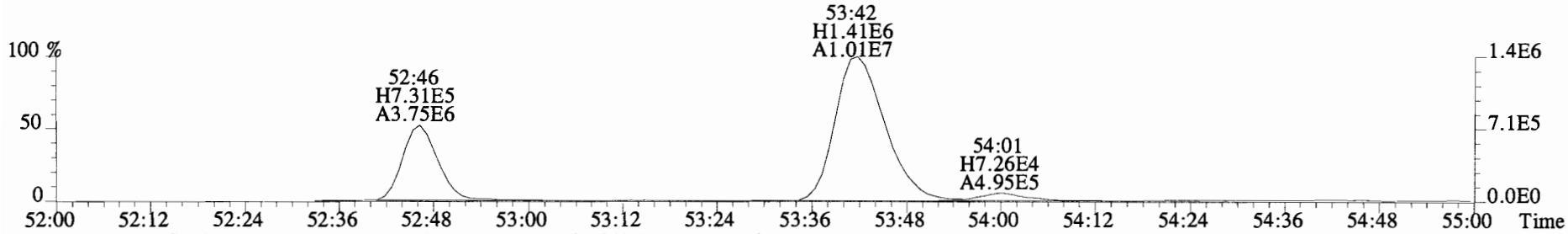
429.7606 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2636.0,0.00%,F,F)



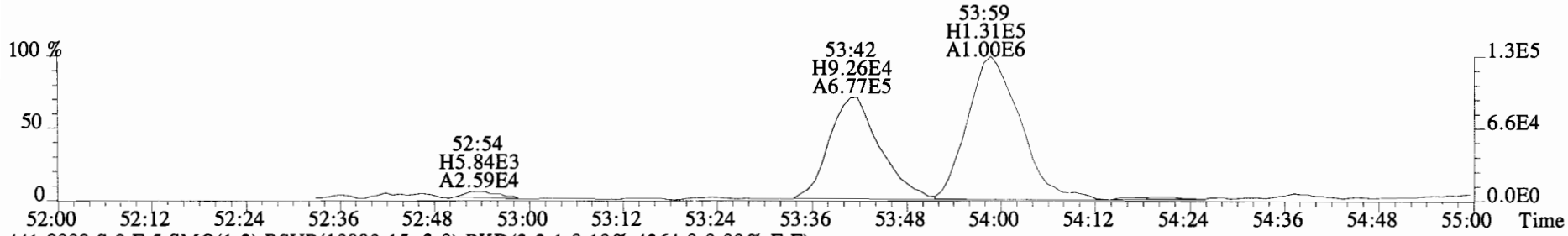
File:141024E2 #1-434 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
427.7635 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4160.0,0.00%,F,F)



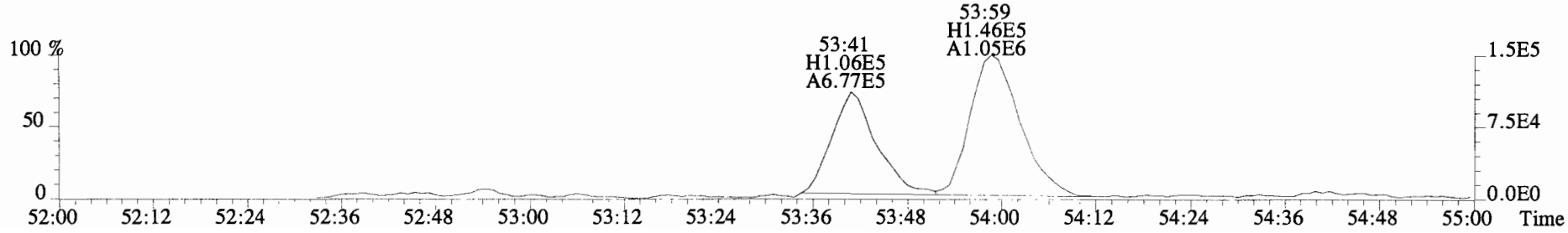
429.7606 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3500.0,0.00%,F,F)



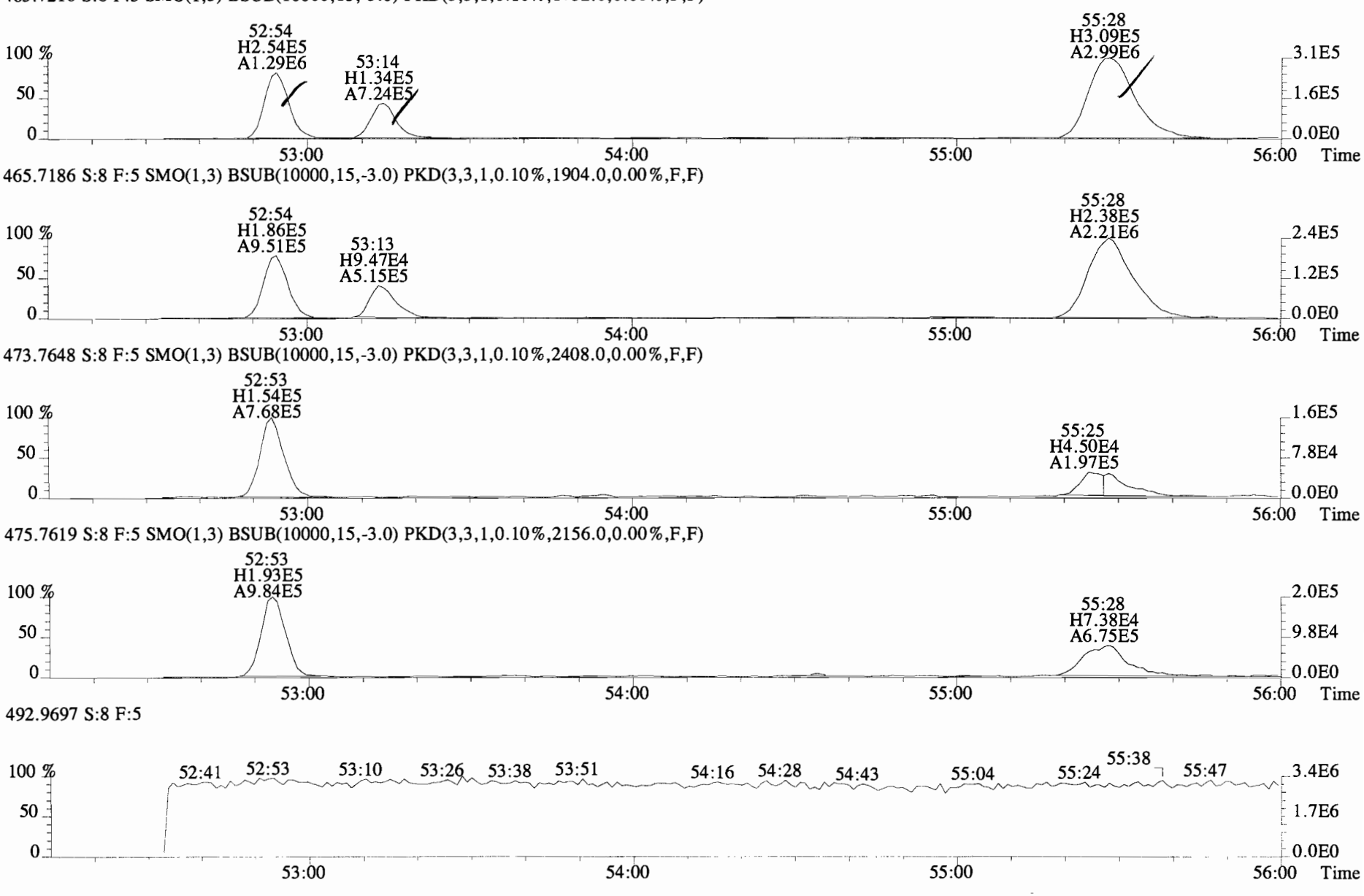
439.8038 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3276.0,0.00%,F,F)



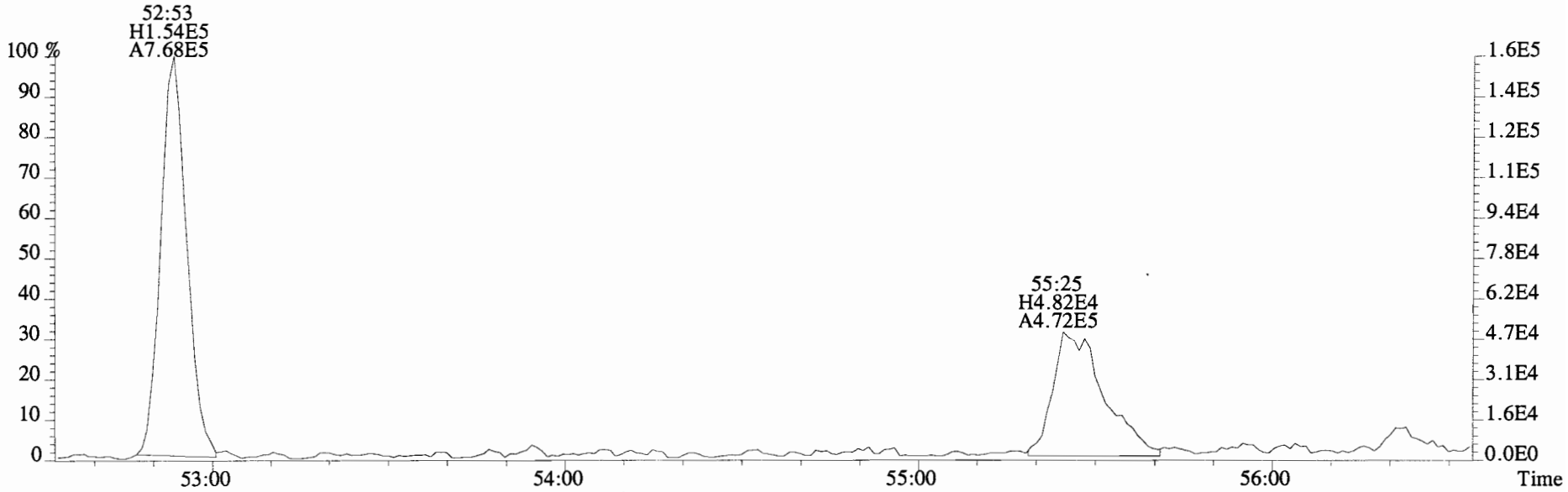
441.8008 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4364.0,0.00%,F,F)



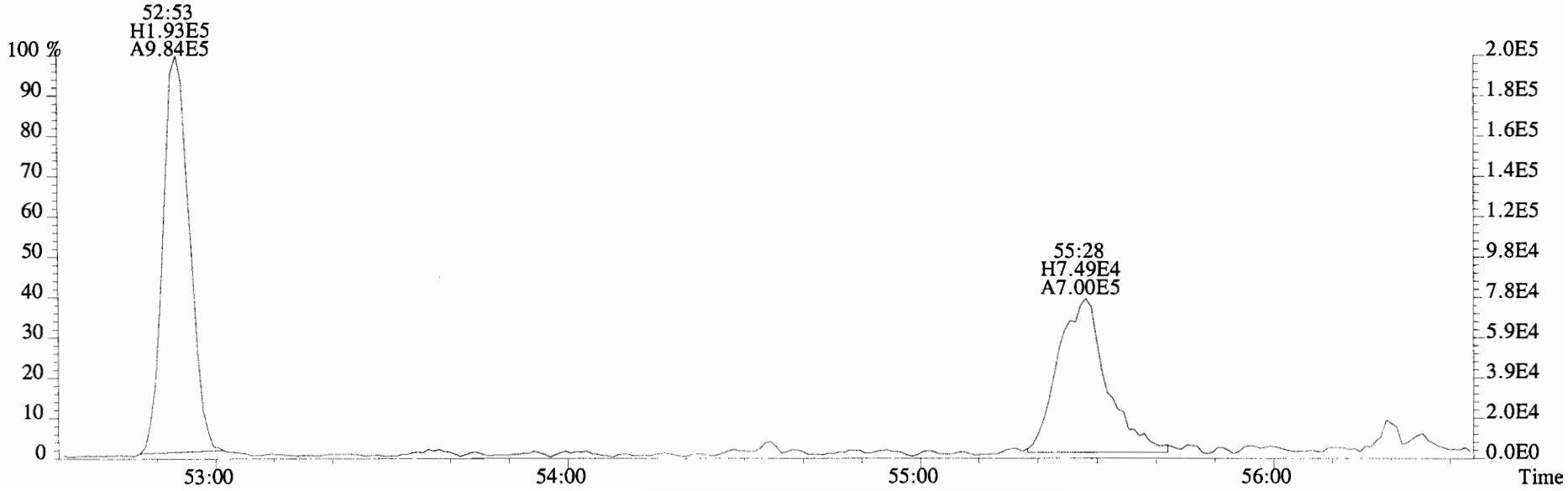
File:141024E2 #1-434 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1



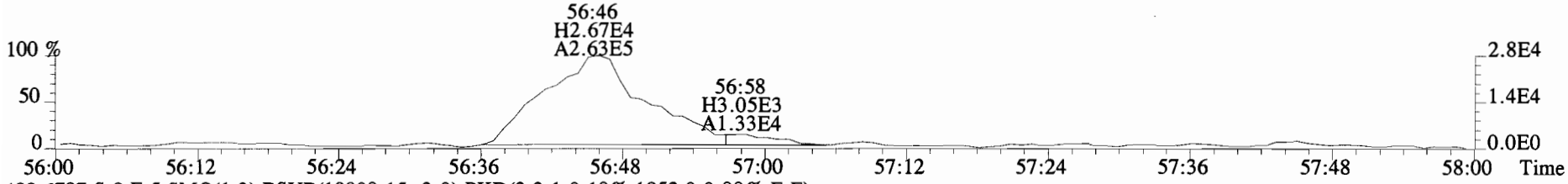
File:141024E2 #1-434 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
473.7648 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2408.0,0.00%,F,F)



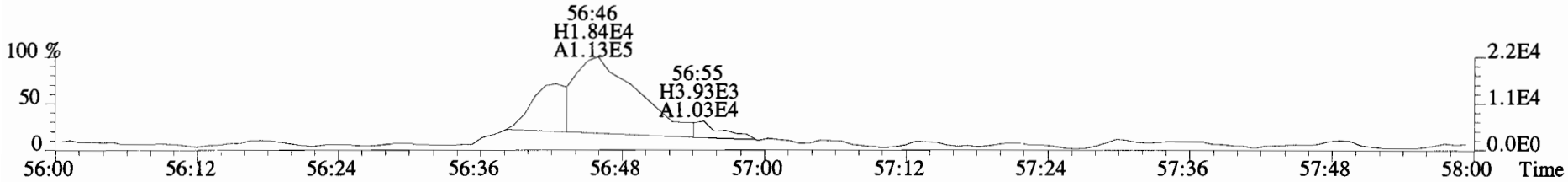
475.7619 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2156.0,0.00%,F,F)



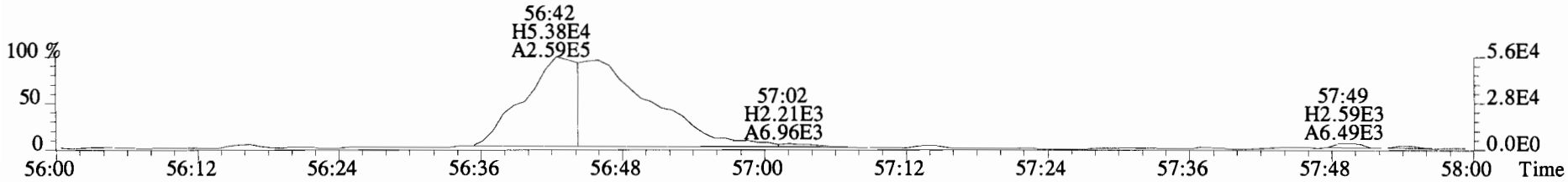
File:141024E2 #1-434 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
497.6826 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1380.0,0.00%,F,F)



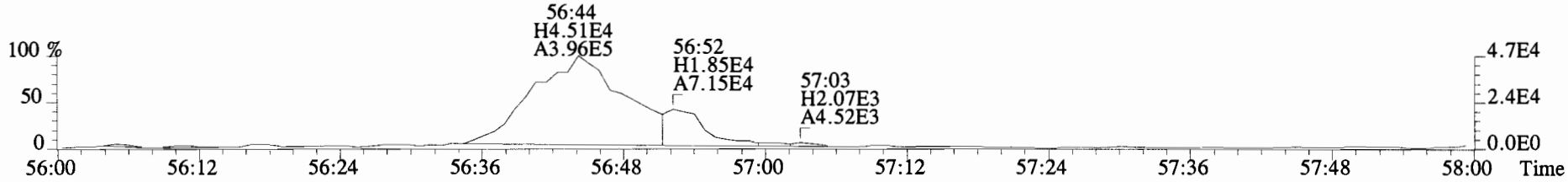
499.6797 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1952.0,0.00%,F,F)



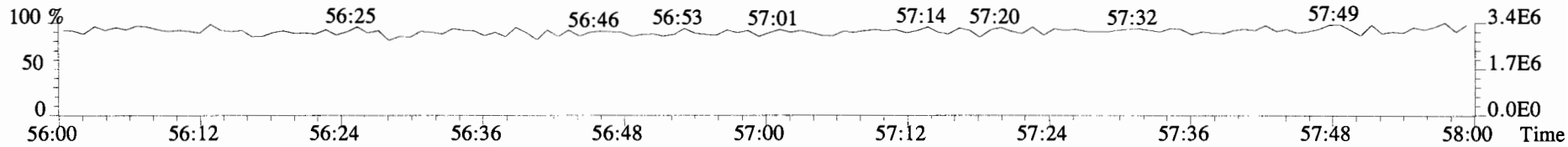
509.7229 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1608.0,0.00%,F,F)



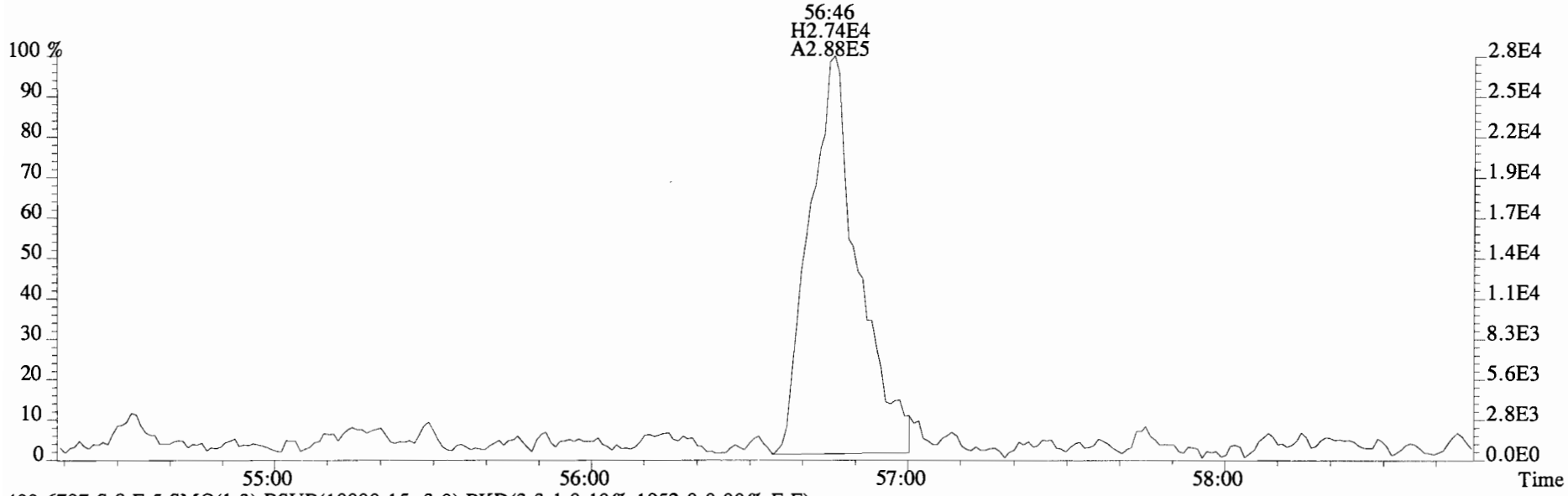
511.7199 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1316.0,0.00%,F,F)



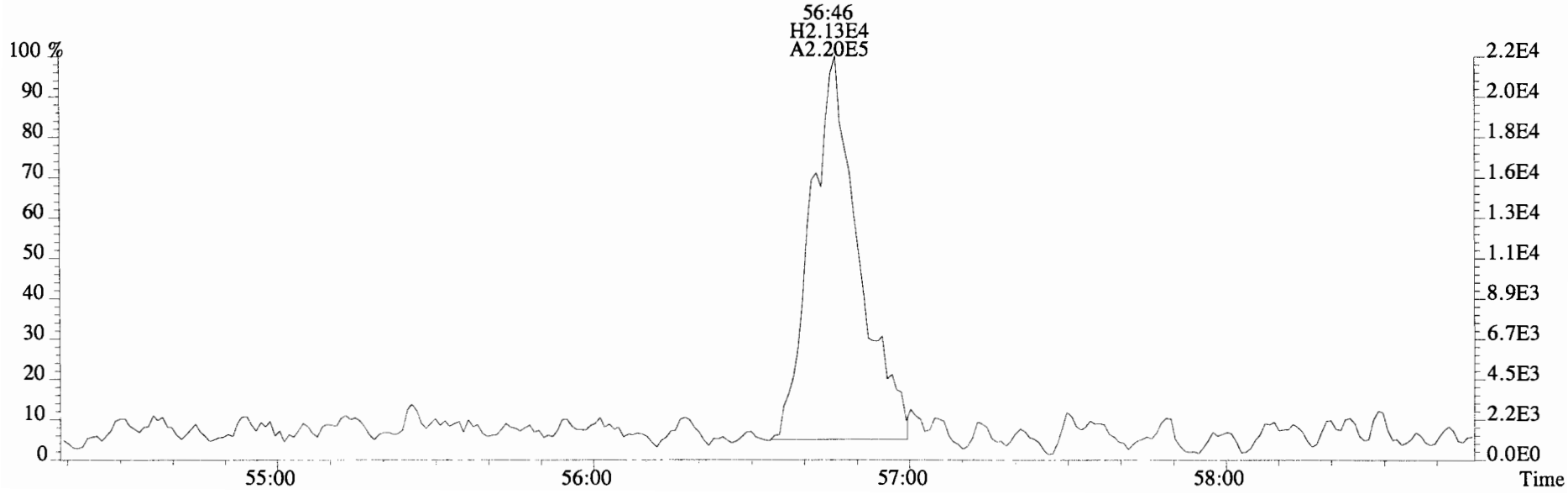
492.9697 S:8 F:5



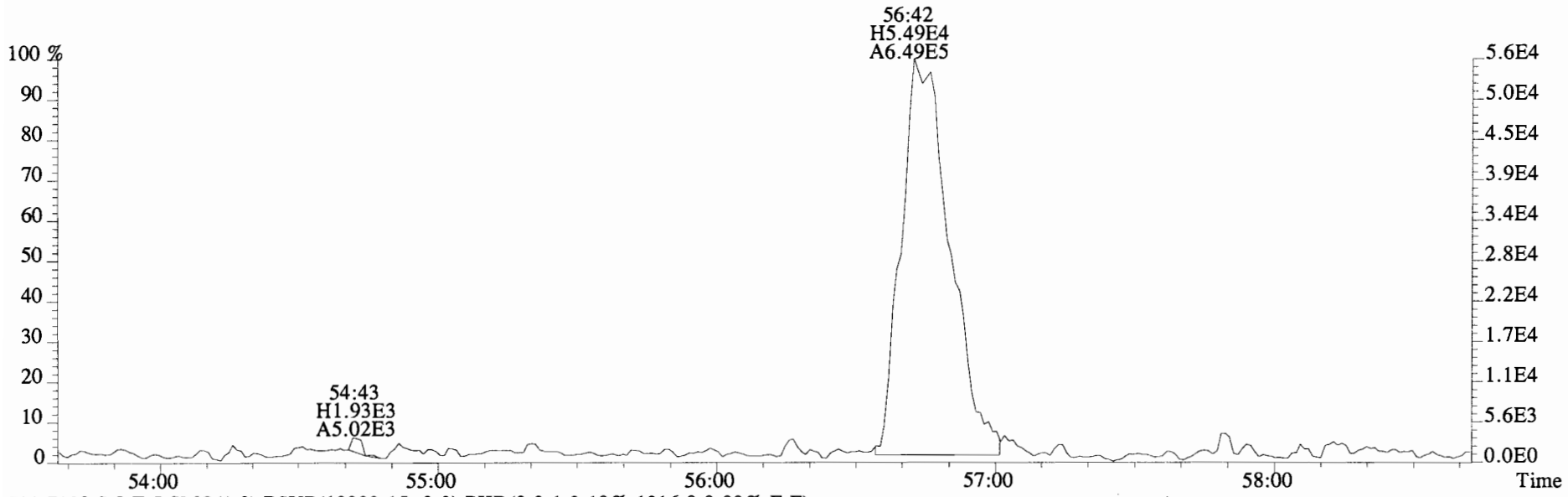
File:141024E2 #1-434 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
497.6826 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1380.0,0.00%,F,F)



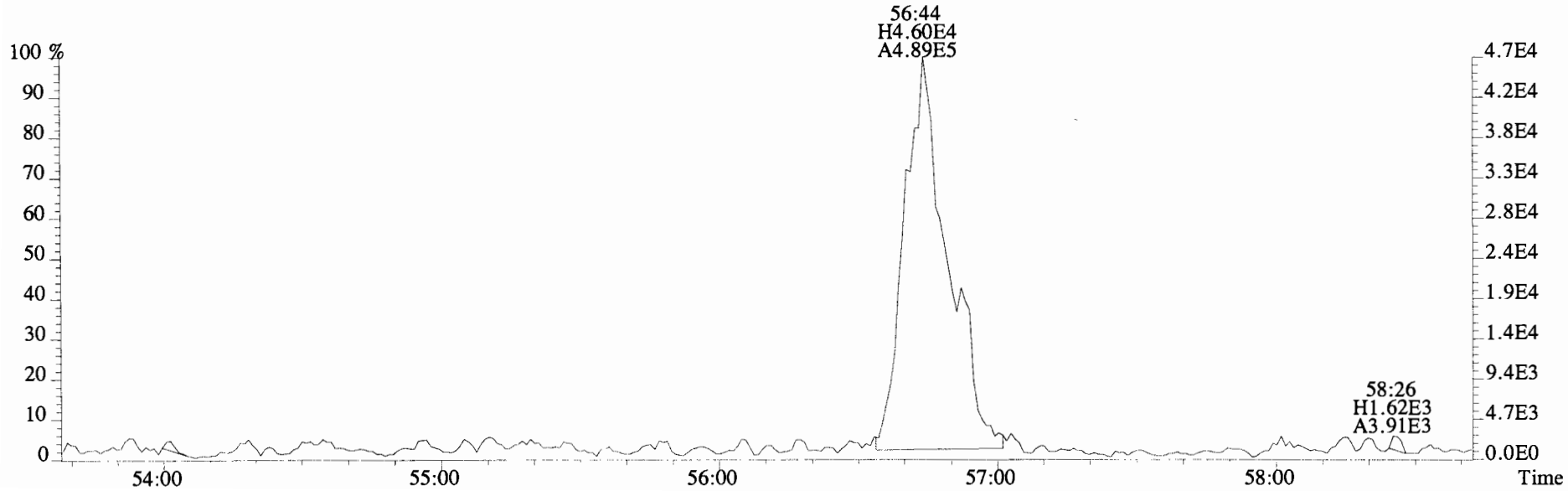
499.6797 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1952.0,0.00%,F,F)



File:141024E2 #1-434 Acq:25-OCT-2014 09:35:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400762-04@20X CC-CB-04-20141013-S Exp:PCB_ZB1
509.7229 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1608.0,0.00%,F,F)



511.7199 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1316.0,0.00%,F,F)



Client ID: CC-CB-22-20141013-S Filename: 141024E2 S:9 Acq:25-OCT-14 10:39:00 ConCal: ST141024E2-1
Lab ID: 1400762-05@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 9.990 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Mono	PCB-1	6.93e+05	2.91	y 16:29	1.19	79.0		*	2.5	*	1.001	0.996-1.006
Mono	PCB-2	5.10e+05	3.10	y 18:46	1.18	54.9		*	2.5	*	0.989	0.984-0.994
Mono	PCB-3	1.06e+06	2.92	y 18:59	1.43	94.4		*	2.5	*	1.001	0.996-1.006
Di	PCB-4/10	7.70e+05	1.44	y 20:17	1.57	135		*	2.5	*	1.002	0.997-1.007
Di	PCB-7/9	3.68e-05	1.28	n 22:02	1.21	49.6	R	*	2.5	*	0.871	0.866-0.874
Di	PCB-6	6.42e+05	1.45	y 22:40	1.30	80.2		*	2.5	*	0.897	0.890-0.899
Di	PCB-5/8	2.62e+06	1.61	y 23:02	1.15	371		*	2.5	*	0.911	0.907-0.917
Di	PCB-14	*	*	n NotF╗	1.11	*		25600	2.5	93.5	*	0.949-0.959
Di	PCB-11	1.90e+07	1.65	y 25:18	1.09	2760		*	2.5	*	1.001	0.995-1.005
Di	PCB-12/13	5.07e+05	1.60	y 25:39	1.19	67.2		*	2.5	*	1.015	1.011-1.021
Di	PCB-15	4.43e+06	1.64	y 26:00	1.28	546		*	2.5	*	1.028	1.023-1.033
Tri	PCB-19	4.40e+05	1.12	y 24:19	1.04	104		*	2.5	*	1.001	0.996-1.006
Tri	PCB-30	*	*	n NotF╗	1.71	*		2220	2.5	6.64	*	1.032-1.042
Tri	PCB-18	3.34e+06	1.04	y 25:55	0.78	674		*	2.5	*	0.955	0.949-0.959
Tri	PCB-17	1.13e+06	1.04	y 26:05	0.92	193		*	2.5	*	0.961	0.956-0.966
Tri	PCB-24/27	4.72e+05	1.14	y 26:38	1.19	62.5		*	2.5	*	0.981	0.977-0.987
Tri	PCB-16/32	2.52e+06	1.10	y 27:09	0.94	422		*	2.5	*	1.000	0.995-1.005
Tri	PCB-34	*	*	n NotF╗	1.14	*		6140	2.5	26.6	*	0.955-0.965
Tri	PCB-23	*	*	n NotF╗	1.28	*		6140	2.5	23.7	*	0.959-0.969
Tri	PCB-29	5.18e+04	1.09	y 28:16	1.08	10.2		*	2.5	*	0.972	0.967-0.977
Tri	PCB-26	9.44e+05	0.89	y 28:28	1.21	166		*	2.5	*	0.979	0.974-0.984
Tri	PCB-25	3.27e+05	1.04	y 28:38	1.26	55.0		*	2.5	*	0.985	0.979-0.989
Tri	PCB-31	4.57e+06	1.04	y 28:59	1.28	755		*	2.5	*	0.997	0.992-1.002
Tri	PCB-28	3.96e+06	1.10	y 29:05	1.71	491		*	2.5	*	1.001	0.995-1.005
Tri	PCB-20/21/33	2.44e+06	1.05	y 29:44	1.08	478		*	2.5	*	1.023	1.017-1.027
Tri	PCB-22	1.61e+06	1.12	y 30:09	1.21	284		*	2.5	*	1.037	1.032-1.042
Tri	PCB-36	2.78e+05	1.03	y 30:44	1.14	58.7		*	2.5	*	0.933	0.928-0.938
Tri	PCB-39	*	*	n NotF╗	1.12	*		6140	2.5	32.3	*	0.943-0.953
Tri	PCB-38	1.88e+05	0.88	y 31:59	1.20	37.7		*	2.5	*	0.971	0.966-0.976
Tri	PCB-35	8.69e+05	0.97	y 32:30	1.23	170		*	2.5	*	0.987	0.982-0.992
Tri	PCB-37	3.68e+06	1.04	y 32:57	1.23	721		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-54	4.01e+04	0.68	y 28:01	1.10	7.35		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-50	2.77e+04	0.71	y 29:09	0.88	6.35		*	2.5	*	1.042	1.037-1.047
Tetra	PCB-53	4.65e+06	0.72	y 29:46	1.06	1040		*	2.5	*	0.946	0.942-0.952
Tetra	PCB-51	6.10e+05	0.79	y 30:07	0.99	147		*	2.5	*	0.958	0.952-0.962
Tetra	PCB-45	1.60e+06	0.80	y 30:33	0.86	443		*	2.5	*	0.971	0.966-0.976
Tetra	PCB-46	7.91e+05	0.77	y 31:02	0.85	224		*	2.5	*	0.987	0.981-0.991

Integrations by:
Analyst: DMS
Date: 10/30/14

Reviewed by: [illegible] Date: 10/30/14

Client ID: CC-CB-22-20141013-S Filename: 141024E2 S:9 Acq:25-OCT-14 10:39:00 ConCal: ST141024E2-1
Lab ID: 1400762-05@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 9.990 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	1.94e+08	0.74	y	31:29	1.28	36200		*	2.5	*	1.001	0.996	1.006
Tetra	PCB-73	*	*	n	NotF╗	1.35	*		10400	2.5	38.6	*	1.000	1.010
Tetra	PCB-43/49	3.06e+07	0.73	y	31:47	0.99	7360		*	2.5	*	1.011	1.005	1.015
Tetra	PCB-47	3.89e+06	0.73	y	31:59	1.06	864		*	2.5	*	1.001	0.996	1.006
Tetra	PCB-48/75	2.30e+06	0.76	y	32:06	1.23	440		*	2.5	*	1.004	0.999	1.009
Tetra	PCB-65	*	*	n	NotF╗	1.22	*		10400	2.5	40.6	*	1.008	1.018
Tetra	PCB-62	*	*	n	NotF╗	1.22	*		10400	2.5	40.7	*	1.011	1.021
Tetra	PCB-44	5.73e+07	0.73	y	32:47	0.86	15600		*	2.5	*	1.026	1.021	1.031
Tetra	PCB-42/59	4.94e+06	0.72	y	33:01	1.14	1020		*	2.5	*	1.033	1.028	1.038
Tetra	PCB-41/64/71/72	3.01e+07	0.74	y	33:36	1.21	5870		*	2.5	*	1.051	1.046	1.056
Tetra	PCB-68	*	*	n	NotF╗	1.35	*		10400	2.5	36.9	*	1.054	1.064
Tetra	PCB-40	3.00e+06	0.76	y	34:04	0.70	1010		*	2.5	*	1.066	1.061	1.071
Tetra	PCB-57	*	*	n	NotF╗	0.98	*		10400	2.5	38.4	*	0.965	0.975
Tetra	PCB-67	6.90e+05	0.70	y	34:43	1.11	112		*	2.5	*	0.979	0.974	0.984
Tetra	PCB-58	*	*	n	NotF╗	0.93	*		10400	2.5	40.6	*	0.977	0.987
Tetra	PCB-63	1.26e+06	0.77	y	35:00	0.95	237		*	2.5	*	0.987	0.982	0.992
Tetra	PCB-74	2.50e+07	0.72	y	35:17	1.24	3600		*	2.5	*	0.995	0.990	1.000
Tetra	PCB-61/70	1.17e+08	0.73	y	35:29	0.95	22000		*	2.5	*	1.000	0.995	1.005
Tetra	PCB-76/66	3.23e+07	0.72	y	35:42	1.04	5540		*	2.5	*	1.007	1.001	1.011
Tetra	PCB-80	*	*	n	NotF╗	1.19	*		10400	2.5	31.6	*	0.996	1.006
Tetra	PCB-55	4.17e+06	0.78	y	36:11	1.04	718		*	2.5	*	1.008	1.005	1.015
Tetra	PCB-56/60	1.84e+07	0.73	y	36:43	1.01	3280		*	2.5	*	1.023	1.019	1.029
Tetra	PCB-79	8.49e+06	0.77	y	37:48	1.08	1410		*	2.5	*	1.053	1.048	1.058
Tetra	PCB-78	*	*	n	NotF╗	1.27	*		10400	2.5	37.2	*	0.982	0.992
Tetra	PCB-81	3.48e+06	0.84	y	39:01	1.33	583		*	2.5	*	1.000	0.995	1.005
Tetra	PCB-77	2.54e+07	0.77	y	39:37	1.10	4990		*	2.5	*	1.000	0.995	1.005
Penta	PCB-104	*	*	n	NotF╗	1.18	*		1860	2.5	10.7	*	0.996	1.006
Penta	PCB-96	3.20e+06	1.50	y	33:54	1.14	672		*	2.5	*	1.039	1.034	1.044
Penta	PCB-103	2.34e+06	1.53	y	34:26	0.96	586		*	2.5	*	1.055	1.050	1.060
Penta	PCB-100	8.24e+05	1.57	y	34:46	0.94	210		*	2.5	*	1.065	1.061	1.071
Penta	PCB-94	1.55e+06	1.60	y	35:15	1.06	478		*	2.5	*	0.986	0.980	0.990
Penta	PCB-95/98/102	4.96e+08	1.56	y	35:48	1.22	132000		*	2.5	*	1.001	0.995	1.005
Penta	PCB-93	*	*	n	NotF╗	0.84	*		1860	2.5	20.9	*	0.997	1.007
Penta	PCB-88/91	6.16e+07	1.56	y	36:11	1.12	18000		*	2.5	*	1.012	1.005	1.015
Penta	PCB-121	*	*	n	NotF╗	1.62	*		1860	2.5	10.9	*	1.009	1.019
Penta	PCB-84/92	2.32e+08	1.56	y	37:06	1.05	65800		*	2.5	*	0.991	0.985	0.995
Penta	PCB-89	2.36e+06	1.59	y	37:17	1.13	619		*	2.5	*	0.996	0.991	1.001

Analyst: DMS

Date: 10/30/14

Client ID: CC-CB-22-20141013-S Filename: 141024E2 S:9 Acq:25-OCT-14 10:39:00 ConCal: ST141024E2-1
Lab ID: 1400762-05@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 9.990 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	5.97e+08	1.57	y	37:28	1.10	161000		*	2.5	*	1.000	0.995	1.005
Penta	PCB-113	*	*	n	NotF	1.41	*		1860	2.5	12.1	*	1.002	1.012
Penta	PCB-99	1.89e+08	1.57	y	37:48	1.34	42100		*	2.5	*	1.009	1.004	1.014
Penta	PCB-119	8.63e+06	1.58	y	38:15	1.53	1860		*	2.5	*	0.987	0.982	0.992
Penta	PCB-108/112	2.58e+07	1.54	y	38:26	1.28	6680		*	2.5	*	0.991	0.986	0.996
Penta	PCB-83	*	*	n	NotF	1.52	*		1860	2.5	11.7	*	0.990	1.000
Penta	PCB-97	1.50e+08	1.56	y	38:46	1.18	42000		*	2.5	*	1.000	0.995	1.005
Penta	PCB-86	*	*	n	NotF	0.84	*		1860	2.5	21.1	*	0.999	1.009
Penta	PCB-87/117/125	2.43e+08	1.56	y	39:03	1.55	51800		*	2.5	*	1.007	1.002	1.012
Penta	PCB-111/115	1.16e+07	1.44	y	39:12	1.63	2350		*	2.5	*	1.011	1.006	1.016
Penta	PCB-85/116	6.90e+07	1.59	y	39:19	1.30	17500		*	2.5	*	1.014	1.010	1.020
Penta	PCB-120	2.90e+06	1.62	y	39:33	1.68	571		*	2.5	*	1.020	1.016	1.026
Penta	PCB-110	7.97e+08	1.56	y	39:43	1.56	169000		*	2.5	*	1.025	1.020	1.030
Penta	PCB-82	4.61e+07	1.60	y	40:21	0.76	15700		*	2.5	*	0.976	0.971	0.981
Penta	PCB-124	3.09e+07	1.54	y	41:01	1.47	5430		*	2.5	*	0.992	0.988	0.998
Penta	PCB-107/109	3.74e+07	1.52	y	41:11	1.32	7290		*	2.5	*	0.996	0.991	1.001
Penta	PCB-123	6.64e+06	1.48	y	41:21	1.17	1470		*	2.5	*	1.000	0.996	1.006
Penta	PCB-106/118	4.98e+08	1.56	y	41:32	1.17	107000		*	2.5	*	1.000	0.996	1.006
Penta	PCB-114	1.34e+07	1.68	y	42:11	1.30	2680		*	2.5	*	1.000	0.995	1.005
Penta	PCB-122	6.36e+06	1.65	y	42:20	1.12	1470		*	2.5	*	1.004	0.999	1.009
Penta	PCB-105	2.00e+08	1.63	y	43:04	1.30	40900		*	2.5	*	1.000	0.995	1.005
Penta	PCB-127	*	*	n	NotF	1.33	*		15100	2.5	93.5	*	0.996	1.006
Penta	PCB-126	8.45e+06	1.63	y	45:19	1.18	2240		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-155	*	*	n	NotF	1.11	*		1560	2.5	9.74	*	0.966	1.006
Hexa	PCB-150	1.06e+06	1.30	y	38:16	1.00	290		*	2.5	*	1.035	1.030	1.040
Hexa	PCB-152	8.59e+05	1.26	y	38:46	1.12	211		*	2.5	*	1.048	1.043	1.053
Hexa	PCB-145	3.53e+05	1.32	y	39:12	1.20	80.4		*	2.5	*	1.060	1.055	1.065
Hexa	PCB-136	1.30e+08	1.25	y	39:31	1.18	30200		*	2.5	*	1.068	1.064	1.074
Hexa	PCB-148	*	*	n	NotF	0.74	*		1560	2.5	14.6	*	1.066	1.076
Hexa	PCB-154	5.50e+06	1.20	y	40:07	0.86	1750		*	2.5	*	1.085	1.080	1.090
Hexa	PCB-151	1.52e+08	1.25	y	40:45	0.75	55800		*	2.5	*	1.102	1.097	1.107
Hexa	PCB-135	8.79e+07	1.32	y	40:59	0.79	30300		*	2.5	*	1.108	1.103	1.113
Hexa	PCB-144	3.55e+07	1.08	y	41:06	0.76	12700		*	2.5	*	1.111	1.105	1.117
Hexa	PCB-147	1.31e+07	1.31	y	41:14	0.82	4370		*	2.5	*	1.115	1.109	1.121
Hexa	PCB-139/149	5.54e+08	1.26	y	41:29	0.76	199000		*	2.5	*	1.122	1.116	1.128
Hexa	PCB-140	3.04e+06	1.30	y	41:40	0.72	1150		*	2.5	*	1.127	1.121	1.133
Hexa	PCB-134/143	4.55e+07	1.22	y	42:08	0.92	13200		*	2.5	*	0.975	0.970	0.980

Analyst: DMS

Date: 10/30/14

Client ID: CC-CB-22-20141013-S Filename: 141024E2 S:9 Acq:25-OCT-14 10:39:00 ConCal: ST141024E2-1
Lab ID: 1400762-05@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 9.990 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hexa	PCB-133/142	2.30e+07	1.24	y 42:25	0.82	7480		*	2.5	*	0.982	0.977-0.987
Hexa	PCB-131	*	*	n NotF┐	0.91	*		23600	2.5	190	*	0.981-0.991
Hexa	PCB-146/165	1.18e+08	1.21	y 42:48	1.25	25200		*	2.5	*	0.991	0.986-0.996
Hexa	PCB-132/161	2.56e+08	1.18	y 43:05	1.10	61600		*	2.5	*	0.997	0.992-1.002
Hexa	PCB-153	7.99e+08	1.24	y 43:12	1.25	170000		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-168	1.15e+06	1.34	y 43:26	1.45	211		*	2.5	*	1.005	1.001-1.011
Hexa	PCB-141	1.72e+08	1.24	y 43:57	1.09	47400		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-137	3.98e+07	1.20	y 44:20	1.06	11200		*	2.5	*	1.009	1.004-1.014
Hexa	PCB-130	5.21e+07	1.24	y 44:27	0.96	16100		*	2.5	*	1.011	1.006-1.016
Hexa	PCB-138/163/164	9.44e+08	1.23	y 44:49	1.29	216000		*	2.5	*	1.000	0.996-1.006
Hexa	PCB-158/160	1.22e+08	1.23	y 45:03	1.34	27000		*	2.5	*	1.006	1.001-1.011
Hexa	PCB-129	3.76e+07	1.20	y 45:19	0.85	13000		*	2.5	*	1.012	1.007-1.017
Hexa	PCB-166	4.36e+06	1.24	y 45:47	1.19	944		*	2.5	*	0.993	0.988-0.998
Hexa	PCB-159	*	*	n NotF┐	1.11	*		46600	2.5	316	*	0.996-1.006
Hexa	PCB-128/162	1.40e+08	1.22	y 46:23	1.05	34200		*	2.5	*	1.007	1.002-1.012
Hexa	PCB-167	4.24e+07	1.21	y 46:47	1.20	8580		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-156	9.41e+07	1.22	y 48:07	1.14	19500		*	2.5	*	1.000	0.996-1.006
Hexa	PCB-157	2.28e+07	1.28	y 48:22	1.16	4620		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-169	5.09e+05	1.30	y 50:24	1.12	125		*	2.5	*	1.000	0.995-1.005
Hepta	PCB-188	3.95e+05	0.96	y 42:50	1.58	77.4		*	2.5	*	1.000	0.996-1.006
Hepta	PCB-184	2.16e+05	0.93	y 43:17	1.63	41.0		*	2.5	*	1.011	1.006-1.016
Hepta	PCB-179	1.34e+06	1.05	y 44:04	1 30	31900		*	2.5	*	1.029	1.024-1.034
Hepta	PCB-176	3.95e+07	1.05	y 44:33	1.48	8300		*	2.5	*	1.040	1.035-1.045
Hepta	PCB-186	*	*	n NotF┐	1.45	*		10800	2.5	38.7	*	1.050-1.060
Hepta	PCB-178	4.60e+07	1.05	y 45:39	1.03	13800		*	2.5	*	1.066	1.061-1.071
Hepta	PCB-175	9.20e+06	1.04	y 46:00	1.01	2820		*	2.5	*	1.074	1.069-1.079
Hepta	PCB-182/187	2.88e+08	1.05	y 46:09	1.25	71400		*	2.5	*	1.078	1.073-1.083
Hepta	PCB-183	1.30e+08	1.05	y 46:30	1.21	33400		*	2.5	*	1.086	1.081-1.091
Hepta	PCB-185	*	*	n NotF┐	1.80	*		*	2.5	*	*	0.951-0.961
Hepta	PCB-174	*	*	n NotF┐	1.38	*		*	2.5	*	*	0.958-0.968
Hepta	PCB-181	*	*	n NotF┐	1.38	*		*	2.5	*	*	0.960-0.970
Hepta	PCB-177	*	*	n NotF┐	1.26	*		*	2.5	*	*	0.963-0.973
Hepta	PCB-171	*	*	n NotF┐	1.58	*		*	2.5	*	*	0.970-0.980
Hepta	PCB-173	*	*	n NotF┐	1.11	*		*	2.5	*	*	0.978-0.988
Hepta	PCB-172	*	*	n NotF┐	1.63	*		*	2.5	*	*	0.987-0.997
Hepta	PCB-192	*	*	n NotF┐	1.74	*		*	2.5	*	*	0.991-1.001
Hepta	PCB-180	*	*	n NotF┐	1.34	*		*	2.5	*	*	0.995-1.005

X = See Reinjection

Analyst: DMS

Date: 10/30/14

Client ID: CC-CB-22-20141013-S Filename: 141024E2 S:9 Acq:25-OCT-14 10:39:00 ConCal: ST141024E2-1
Lab ID: 1400762-05@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 9.990 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	*	*	n	NotFnd	1.72	*	* see Reinject	*	2.5	*	*	0.999	1.009
Hepta	PCB-191	*	*	n	NotFnd	1.69	*		*	2.5	*	*	1.004	1.014
Hepta	PCB-170	1.68e+08	1.06	y	50:44	1.60	53600		*	2.5	*	1.000	0.995	1.005
Hepta	PCB-190	4.72e+07	1.06	y	50:54	2.21	10900		*	2.5	*	1.004	0.998	1.008
Hepta	PCB-189	7.72e+06	1.06	y	52:11	1.55	2250		*	2.5	*	1.000	0.995	1.005
Octa	PCB-202	2.09e+07	0.90	y	48:18	1.08	6130		*	2.5	*	1.000	0.995	1.005
Octa	PCB-201	1.57e+07	0.87	y	48:47	1.15	4340		*	2.5	*	1.010	1.005	1.015
Octa	PCB-204	*	*	n	NotFnd	1.14	*		2060	2.5	13.1	*	1.008	1.018
Octa	PCB-197	4.53e+06	0.91	y	49:14	1.07	1340		*	2.5	*	1.020	1.015	1.025
Octa	PCB-200	1.41e+07	0.91	y	50:02	1.06	4210		*	2.5	*	1.036	1.032	1.044
Octa	PCB-198	3.12e+06	0.93	y	51:16	0.76	1310		*	2.5	*	1.062	1.059	1.069
Octa	PCB-199	8.20e+07	0.90	y	51:23	0.80	32600		*	2.5	*	1.064	1.061	1.071
Octa	PCB-196/203	8.99e+07	0.91	y	51:40	0.80	35600		*	2.5	*	1.070	1.066	1.076
Octa	PCB-195	3.67e+07	0.91	y	52:48	1.23	14600		*	2.5	*	0.983	0.979	0.989
Octa	PCB-194	9.01e+07	0.91	y	53:43	1.21	36200		*	2.5	*	1.000	0.995	1.005
Octa	PCB-205	5.41e+06	0.93	y	54:02	1.54	1710		*	2.5	*	1.006	1.001	1.011
Nona	PCB-208	3.91e+06	1.37	y	52:56	0.93	1510		*	2.5	*	1.000	0.995	1.005
Nona	PCB-207	2.91e+06	1.33	y	53:15	1.08	963		*	2.5	*	1.006	1.001	1.011
Nona	PCB-206	1.26e+07	1.33	y	55:31	1.02	6990		*	2.5	*	1.001	0.995	1.005
Deca	PCB-209	6.23e+05	1.19	y	56:48	1.17	370		*	2.5	*	1.000	0.995	1.005

Analyst: DMS

Date: 10/30/14

Client ID: CC-CB-22-20141013-S Filename: 141024E2 S:9 Acq:25-OCT-14 10:39:00 ConCal: ST141024E2-1
Lab ID: 1400762-05@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 9.9901 EndCAL: NA

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	2.26e+06	2.91	y	16:29	1.27	228.421	
Total Di-PCB	2.80e+07	1.44	y	20:17	1.21	3964.44	
Total Tri-PCB	7.91e+06	1.12	y	24:19	1.10	1455.19	
Total Tri-PCB	1.89e+07	1.09	y	28:16	1.21	3226.40	Sum:4681.59
Total Tetra-PCB	5.70e+08	0.68	y	28:01	1.09	112711	
Total Penta-PCB	3.51e+09	1.50	y	33:54	1.18	850704	
Total Penta-PCB	2.28e+08	1.68	y	42:11	1.25	47326.4	Sum:898030
Total Hexa-PCB	9.83e+08	1.30	y	38:16	0.90	335692	
Total Hexa-PCB	2.91e+09	1.22	y	42:08	1.11	676740	Sum:1012430
Total Hepta-PCB	8.71e+08	0.96	y	42:50	1.42	228395	
Total Octa-PCB	2.30e+08	0.90	y	48:18	0.96	85558.9	
Total Octa-PCB	1.32e+08	0.91	y	52:48	1.33	52431.8	Sum:137991
Total Nona-PCB	1.94e+07	1.37	y	52:56	1.01	9462.13	
Total Deca-PCB	*	*	n	NotFnd	1.17	570*	

* See Reinjection

+ 278915 = 507310

Total PCB Conc:2408314.74448 + 278915 = 2687229

Integrations by Analyst: DMS

Date: 10/30/14

Client ID: CC-CB-22-20141013-S Filename: 141024E2 S:9 Acq:25-OCT-14 10:39:00 ConCal: ST141024E2-1
Lab ID: 1400762-05@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:9.9901 EndCAL: NA

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	7.36e+06	2.96	y	0.87	16:28	0.634	0.629	0.635	1200	120
13C-PCB-3	7.85e+06	2.99	y	0.91	18:58	0.730	0.725	0.733	1220	122
13C-PCB-4	3.65e+06	1.59	y	0.59	20:15	0.779	0.775	0.783	882	88.1
13C-PCB-9	6.14e+06	1.64	y	0.90	21:59	0.846	0.842	0.850	972	97.1
13C-PCB-11	6.33e+06	1.60	y	0.94	25:17	0.973	0.968	0.978	958	95.7
13C-PCB-19	4.07e+06	1.13	y	0.53	24:18	0.935	0.930	0.940	1090	108
13C-PCB-28	4.72e+06	1.03	y	0.93	29:04	1.004	0.999	1.009	918	91.7
13C-PCB-32	6.36e+06	1.08	y	0.80	27:09	1.045	1.040	1.050	1130	113
13C-PCB-37	4.16e+06	0.99	y	0.84	32:56	1.138	1.131	1.143	898	89.7
13C-PCB-47	4.26e+06	0.81	y	0.81	31:58	0.871	0.866	0.874	963	96.2
13C-PCB-52	4.19e+06	0.87	y	0.77	31:27	0.857	0.853	0.861	997	99.6
13C-PCB-54	4.95e+06	0.78	y	0.97	27:59	0.762	0.758	0.766	938	93.7
13C-PCB-70	5.58e+06	0.77	y	1.00	35:28	0.966	0.961	0.971	1030	103
13C-PCB-77	4.64e+06	0.76	y	0.94	39:37	1.079	1.073	1.083	904	90.4
13C-PCB-80	5.57e+06	0.73	y	1.03	35:53	0.977	0.972	0.982	992	99.1
13C-PCB-81	4.49e+06	0.74	y	0.92	39:01	1.063	1.057	1.067	895	89.4
13C-PCB-95	3.07e+06	1.55	y	0.74	35:46	0.913	0.908	0.918	922	92.1
13C-PCB-97	3.03e+06	1.55	y	0.70	38:46	0.989	0.984	0.994	954	95.3
13C-PCB-101	3.37e+06	1.58	y	0.78	37:27	0.956	0.951	0.961	956	95.5
13C-PCB-104	4.18e+06	1.55	y	1.00	32:38	0.833	0.828	0.836	928	92.8
13C-PCB-105	3.76e+06	1.71	y	1.37	43:03	0.928	0.924	0.934	770	76.9
13C-PCB-114	3.86e+06	1.60	y	1.36	42:11	0.910	0.905	0.915	791	79.1
13C-PCB-118	3.98e+06	1.49	y	0.96	41:31	1.060	1.054	1.064	922	92.1
13C-PCB-123	3.88e+06	1.55	y	0.89	41:20	1.055	1.050	1.060	965	96.4
13C-PCB-126	3.20e+06	1.57	y	1.31	45:19	0.977	0.972	0.982	685	68.4
13C-PCB-127	3.96e+06	1.65	y	1.47	43:23	0.936	0.931	0.941	752	75.1
13C-PCB-138	3.38e+06	1.27	y	1.10	44:48	0.966	0.961	0.971	860	85.9
13C-PCB-141	3.35e+06	1.21	y	1.07	43:57	0.948	0.943	0.953	873	87.2
13C-PCB-153	3.76e+06	1.25	y	1.15	43:12	0.932	0.927	0.937	918	91.7
13C-PCB-155	3.66e+06	1.18	y	0.84	36:59	0.944	0.939	0.949	969	96.8
13C-PCB-156	4.25e+06	1.24	y	1.30	48:06	1.037	1.032	1.042	916	91.5
13C-PCB-157	4.25e+06	1.29	y	1.36	48:22	1.043	1.038	1.048	875	87.4
13C-PCB-159	3.90e+06	1.38	y	1.25	46:05	0.994	0.989	0.999	875	87.4
13C-PCB-167	4.12e+06	1.27	y	1.35	46:47	1.009	1.004	1.014	853	85.2
13C-PCB-169	3.64e+06	1.39	y	1.29	50:24	1.087	1.083	1.093	791	79.0
13C-PCB-170	1.97e+06	0.45	y	0.54	50:43	1.094	1.089	1.101	1010	101
13C-PCB-180	2.29e+06	0.56	n	0.68	49:21	1.064	1.060	1.070	937	~~93.6~~ 122 *
13C-PCB-188	3.23e+06	0.44	y	0.92	42:49	0.923	0.919	0.929	985	98.4
13C-PCB-189	2.21e+06	0.45	y	0.72	52:11	1.125	1.120	1.132	864	86.3
13C-PCB-194	2.06e+06	0.93	y	0.80	53:43	0.994	0.990	1.000	1040	104
13C-PCB-202	3.15e+06	0.88	y	0.84	48:17	1.041	1.036	1.046	1050	105
13C-PCB-206	1.76e+06	0.83	y	0.65	55:29	1.027	1.021	1.031	1090	109
13C-PCB-208	2.79e+06	0.74	y	1.08	52:55	0.980	0.976	0.986	1040	104
13C-PCB-209	1.44e+06	1.07	y	0.61	56:47	1.051	1.045	1.055	947	94.6

see Reinjection

CRS vs. RS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	4.84e+06	0.76	y	1.02	37:47	1.029	1.023	1.034	875	87.4
13C-PCB-178	1.95e+06	0.44	y	0.61	45:38	0.984	0.979	0.990	887	88.7

PS vs. IS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	4.84e+06	0.76	y	1.10	37:47	0.968	0.964	0.974	978	97.7
13C-PCB-178	1.95e+06	0.44	y	0.90	45:38	0.925	0.920	0.930	947	94.6

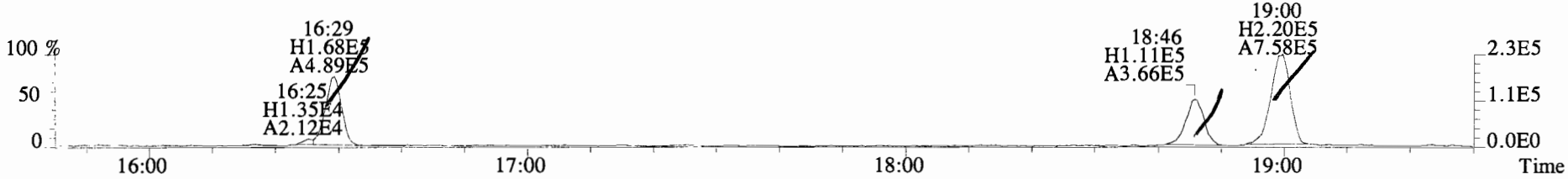
RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	7.05e+06	1.54	y	1.00	25:59	1000
13C-PCB-31	5.51e+06	0.98	y	1.00	28:57	1000
13C-PCB-60	5.45e+06	0.77	y	1.00	36:43	1000
13C-PCB-111	4.50e+06	1.55	y	1.00	39:11	1000
13C-PCB-128	3.58e+06	1.28	y	1.00	46:22	1000
13C-PCB-205	2.49e+06	0.81	y	1.00	54:01	1000

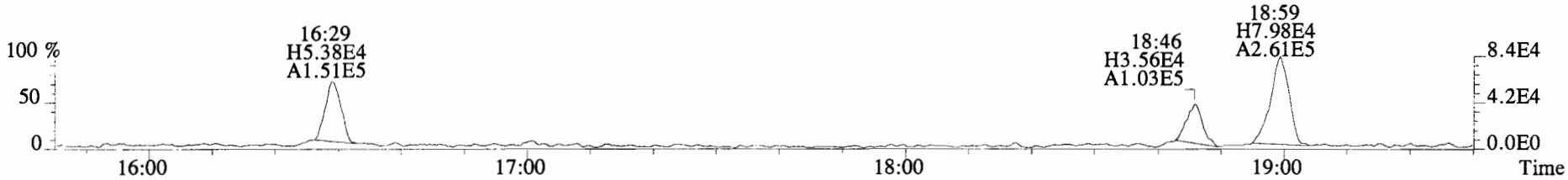
Analyst: DMS

Date: 10/30/14

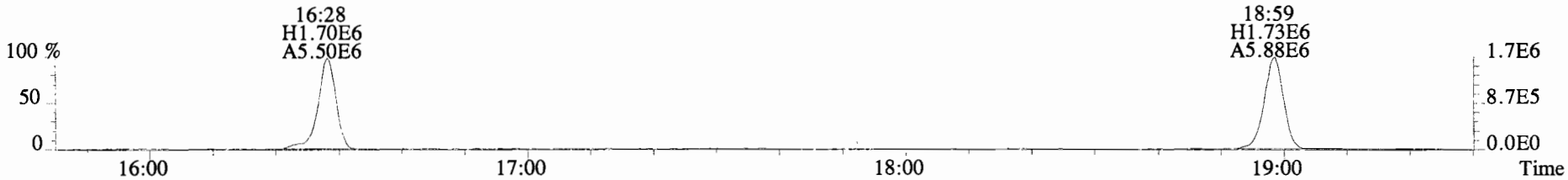
File:141024E2 #1-728 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
188.0393 S:9 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3696.0,0.00%,F,F)



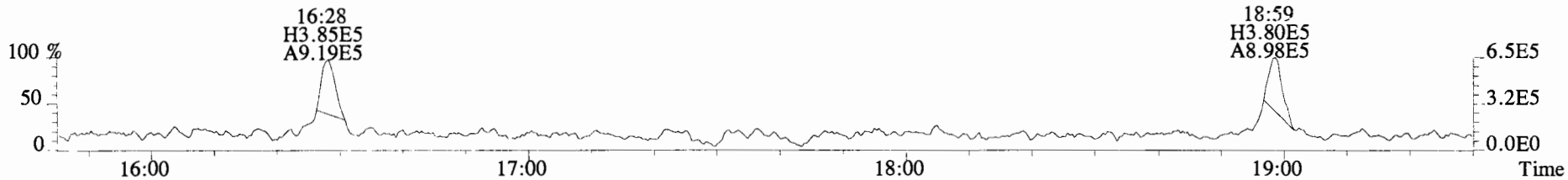
190.0363 S:9 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3724.0,0.00%,F,F)



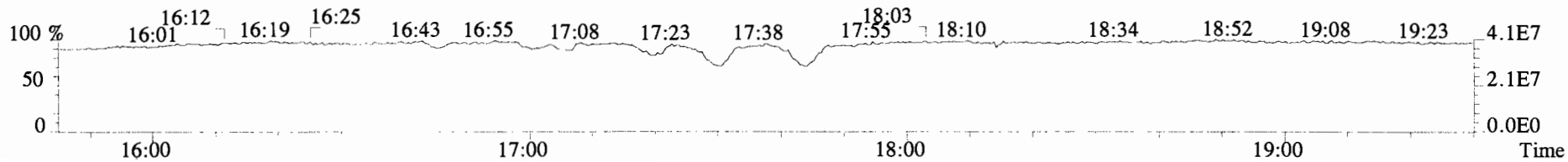
200.0795 S:9 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6220.0,0.00%,F,F)



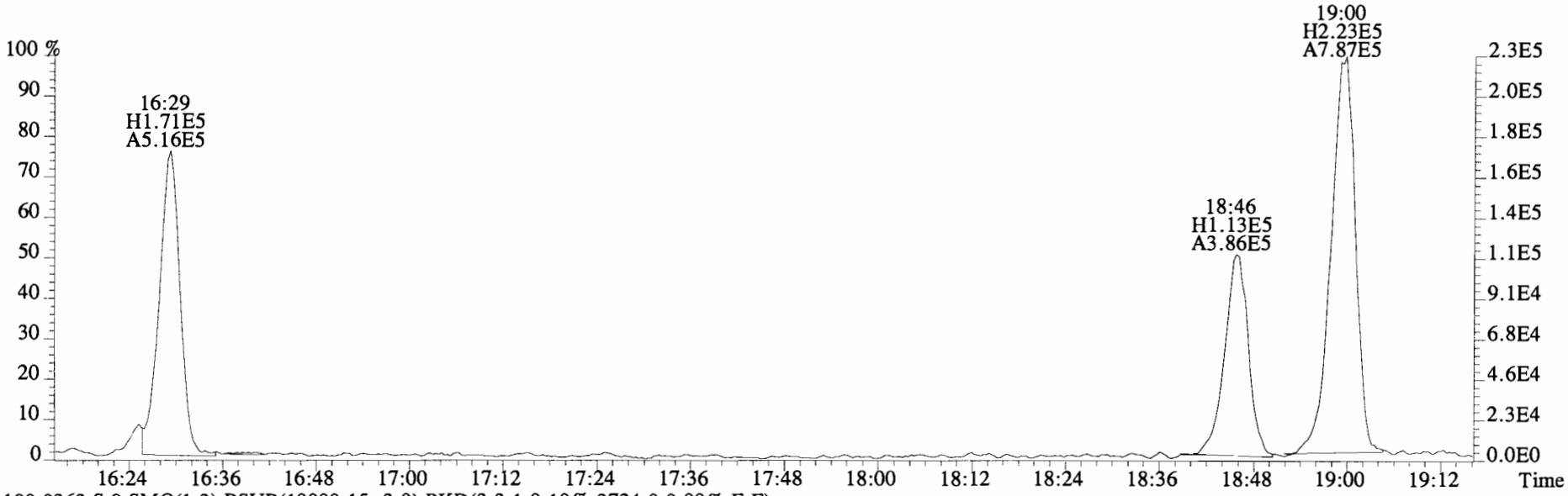
202.0766 S:9 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,141608.0,0.00%,F,F)



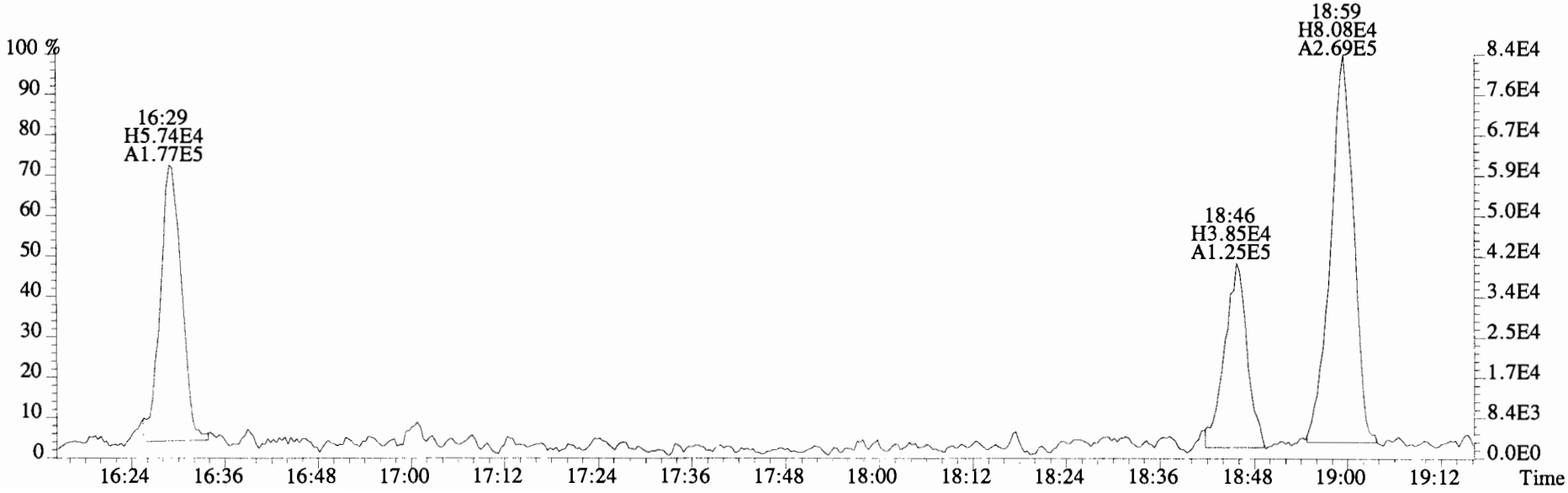
180.9880 S:9



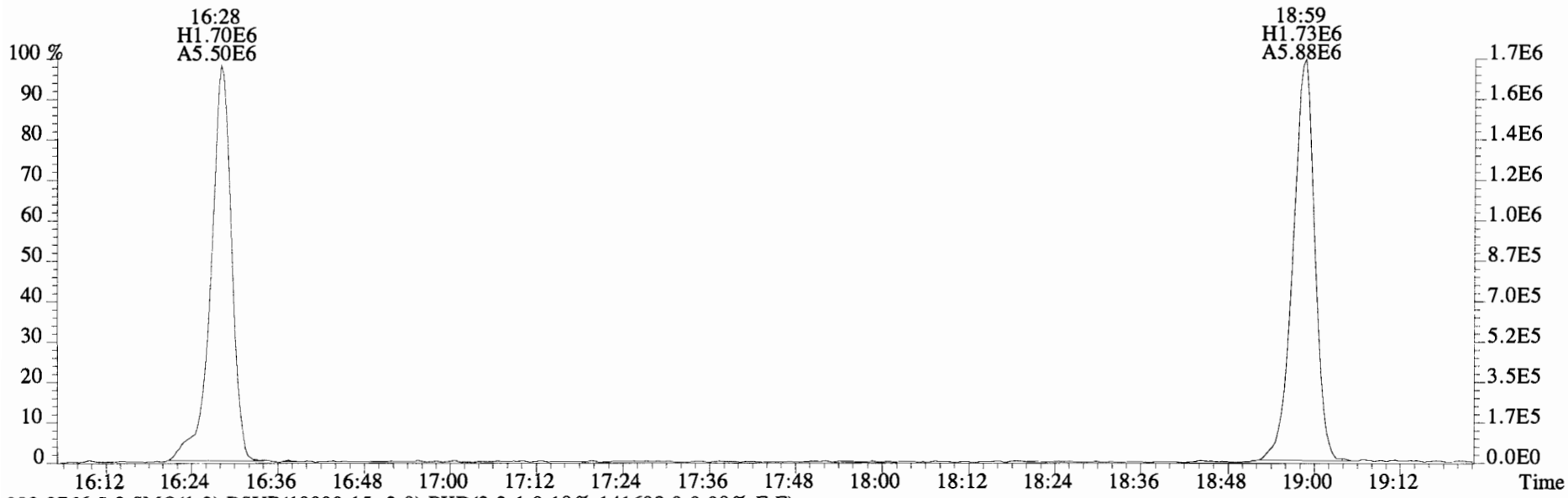
File:141024E2 #1-728 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
188.0393 S:9 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3696.0,0.00%,F,F)



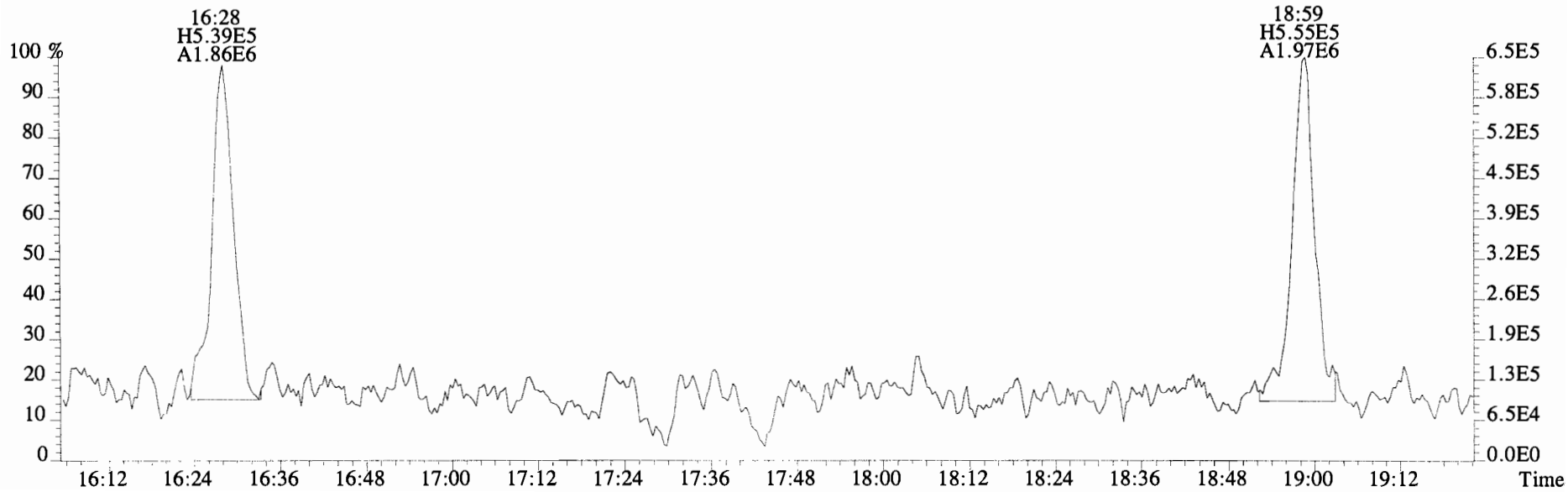
190.0363 S:9 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3724.0,0.00%,F,F)



File:141024E2 #1-728 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
200.0795 S:9 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6220.0,0.00%,F,F)

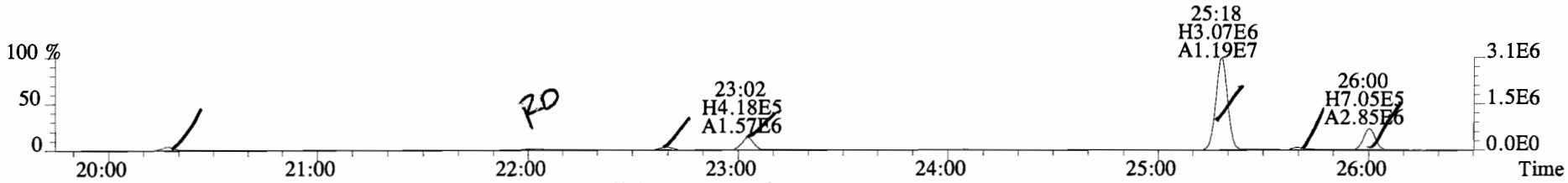


202.0766 S:9 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,141608.0,0.00%,F,F)

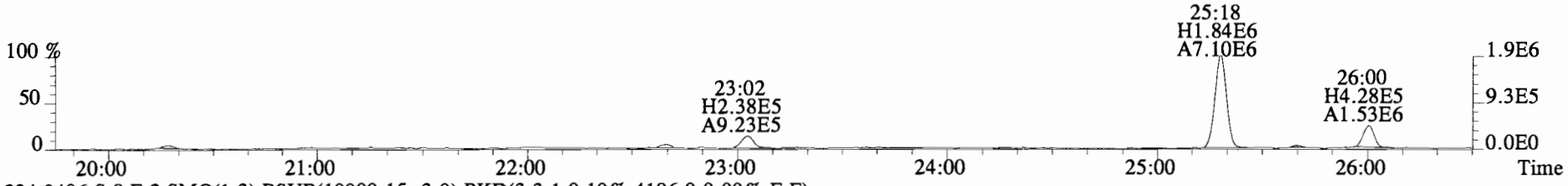


File:141024E2 #1-757 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1

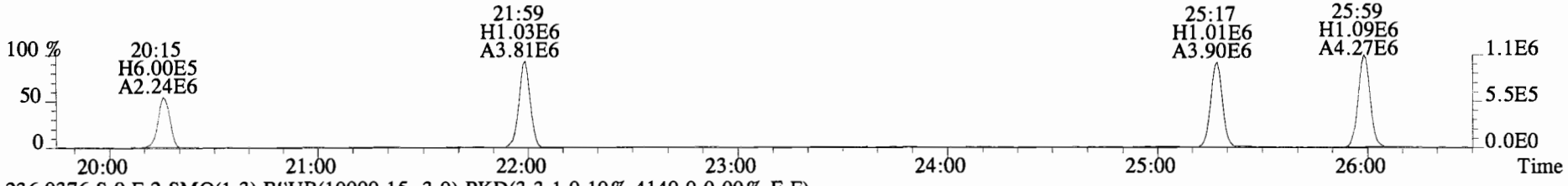
222.0003 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5740.0,0.00%,F,F)



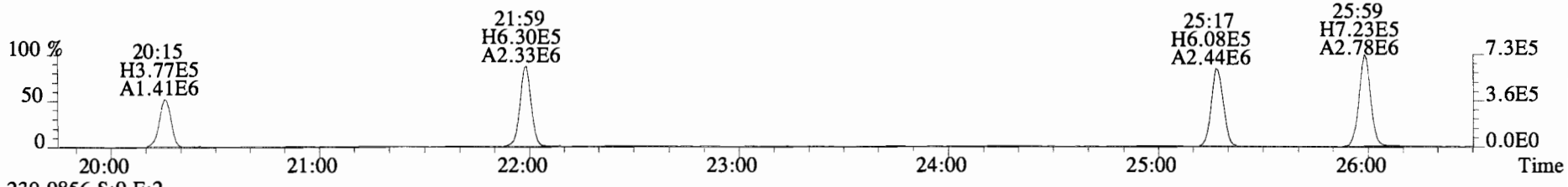
223.9974 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25640.0,0.00%,F,F)



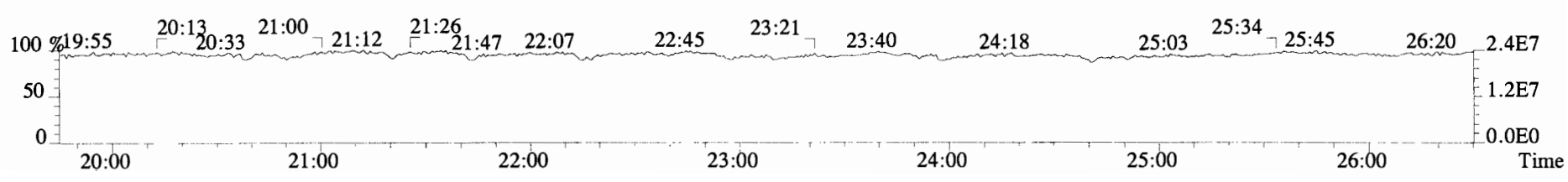
234.0406 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4196.0,0.00%,F,F)



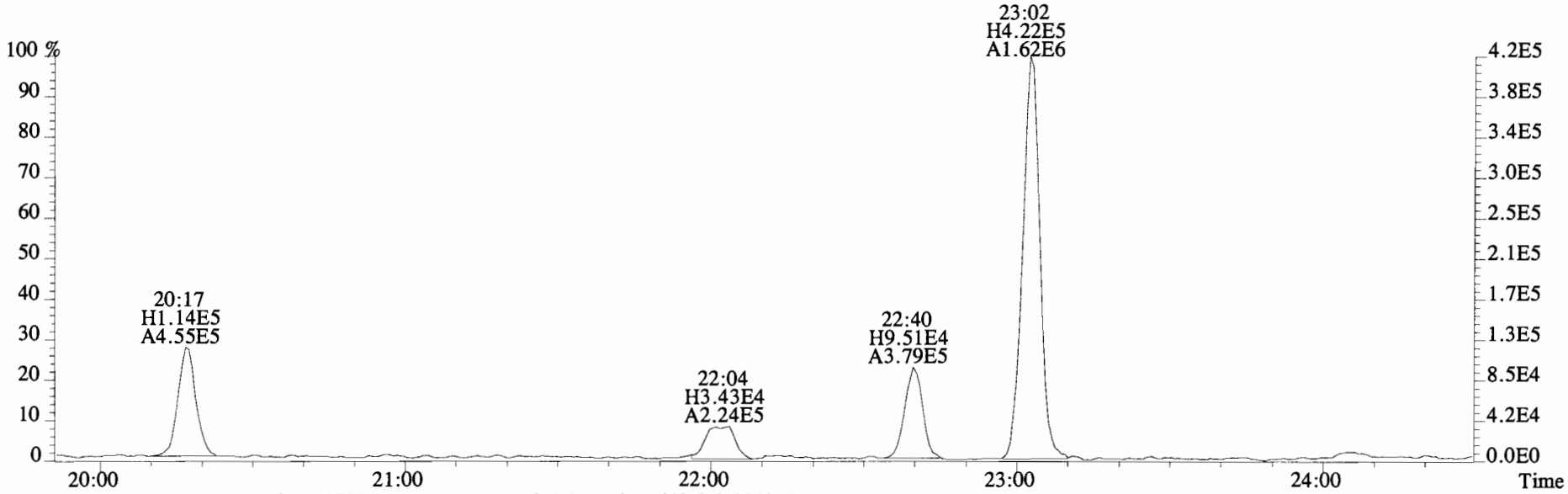
236.0376 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4140.0,0.00%,F,F)



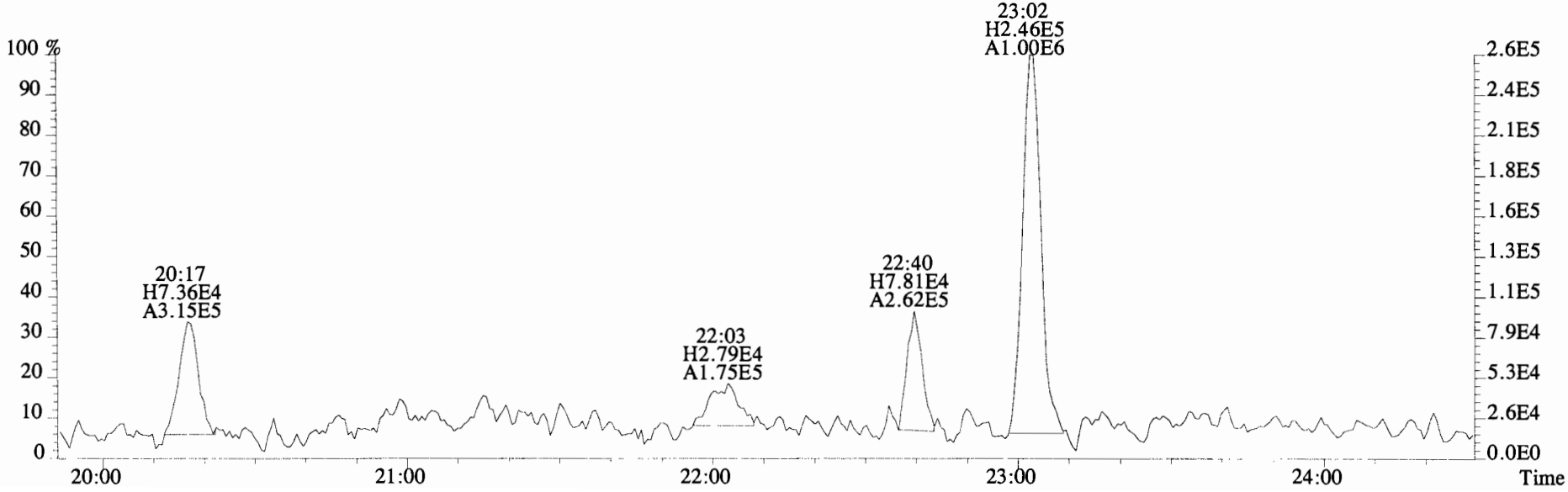
230.9856 S:9 F:2



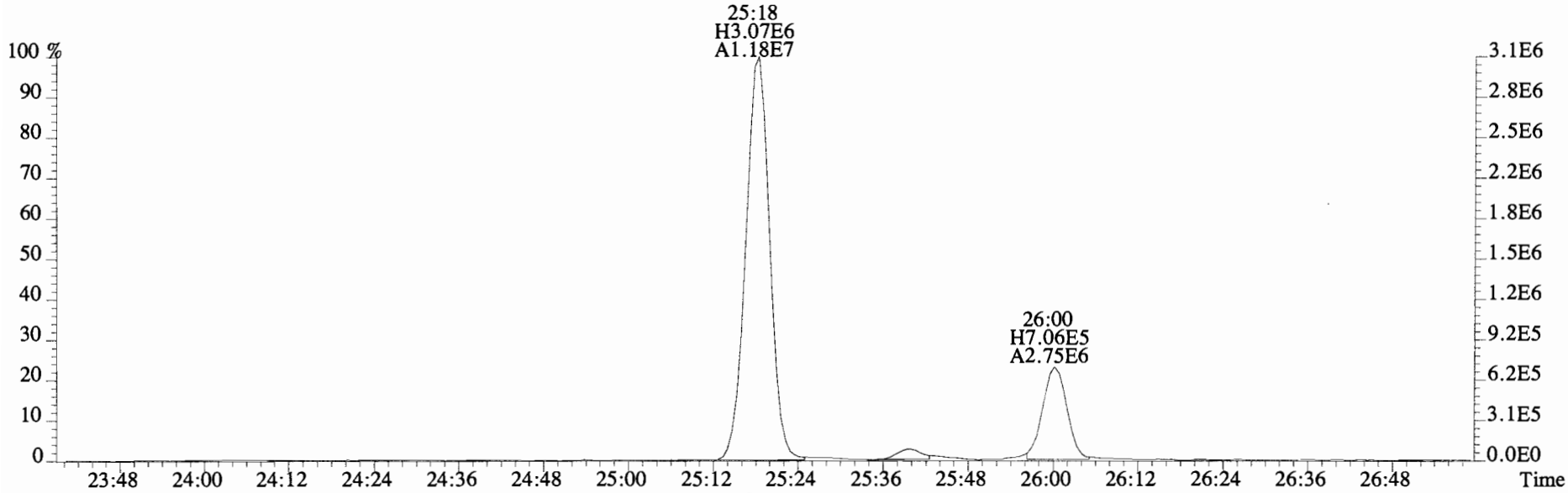
File:141024E2 #1-757 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
222.0003 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5740.0,0.00%,F,F)



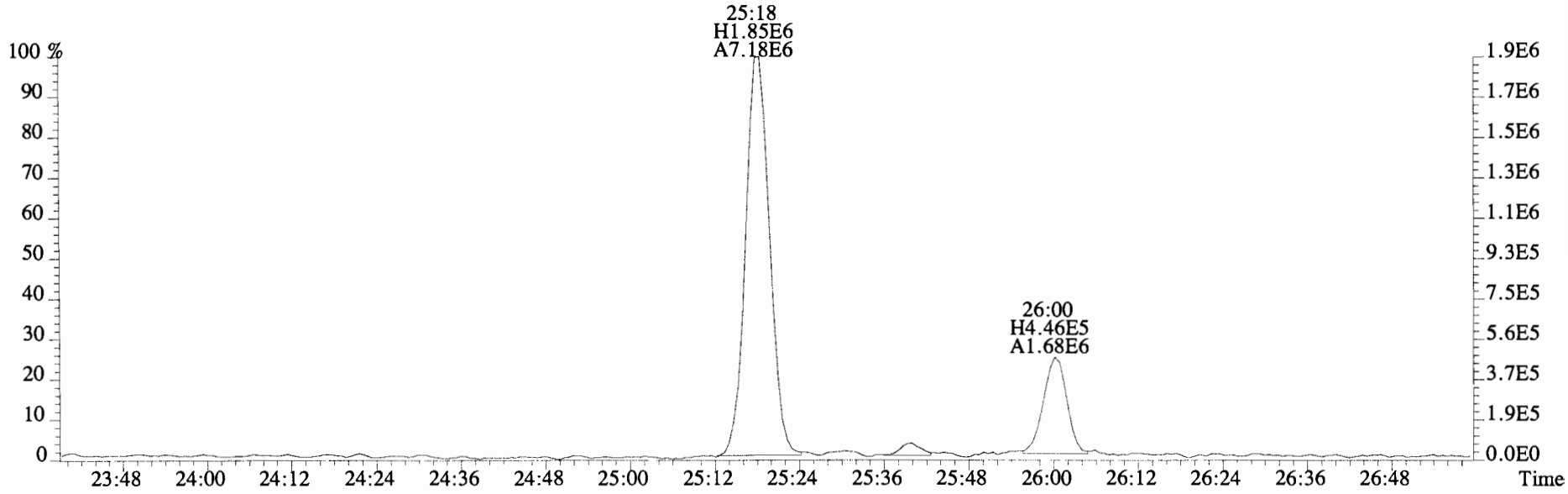
223.9974 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25640.0,0.00%,F,F)

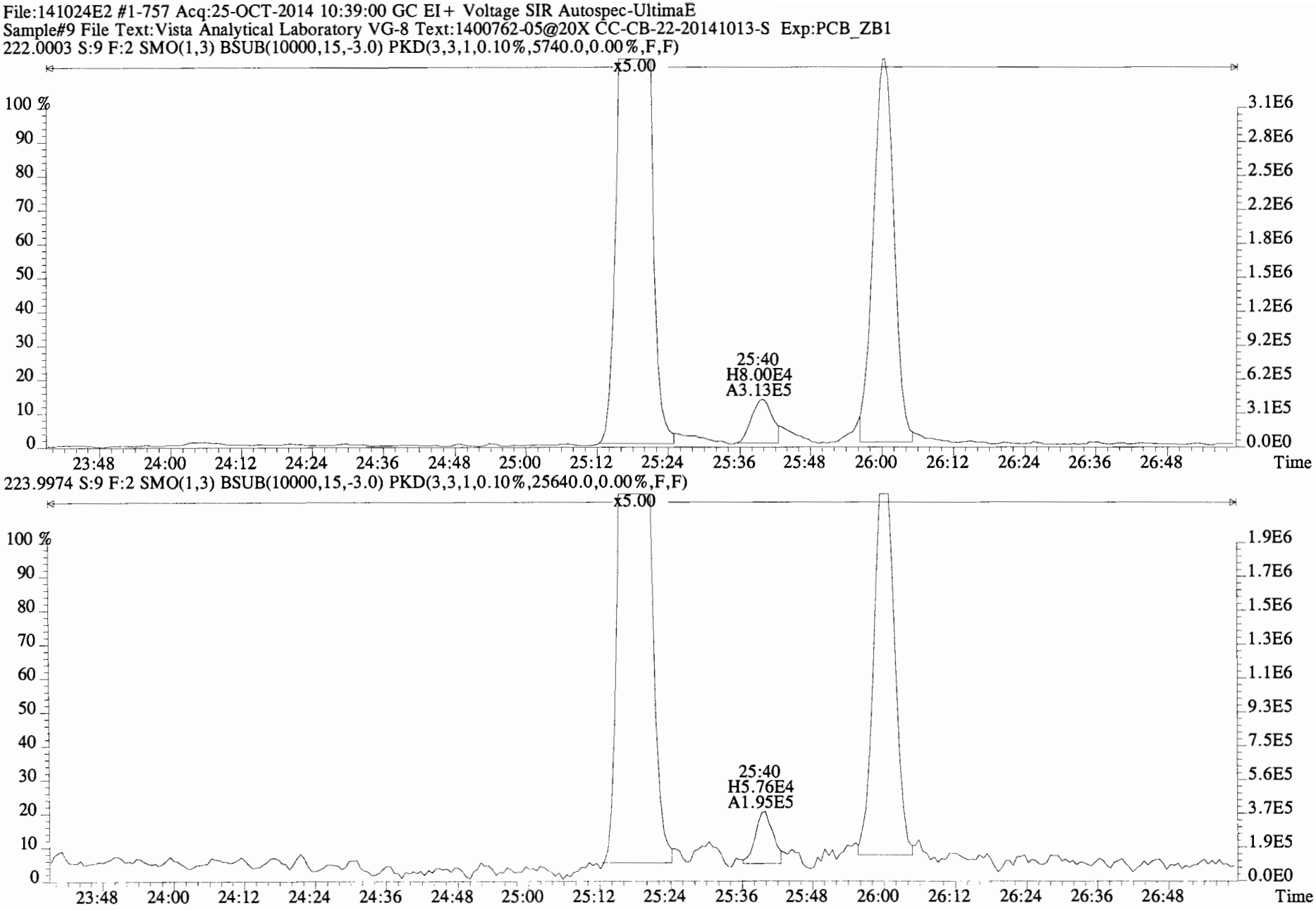


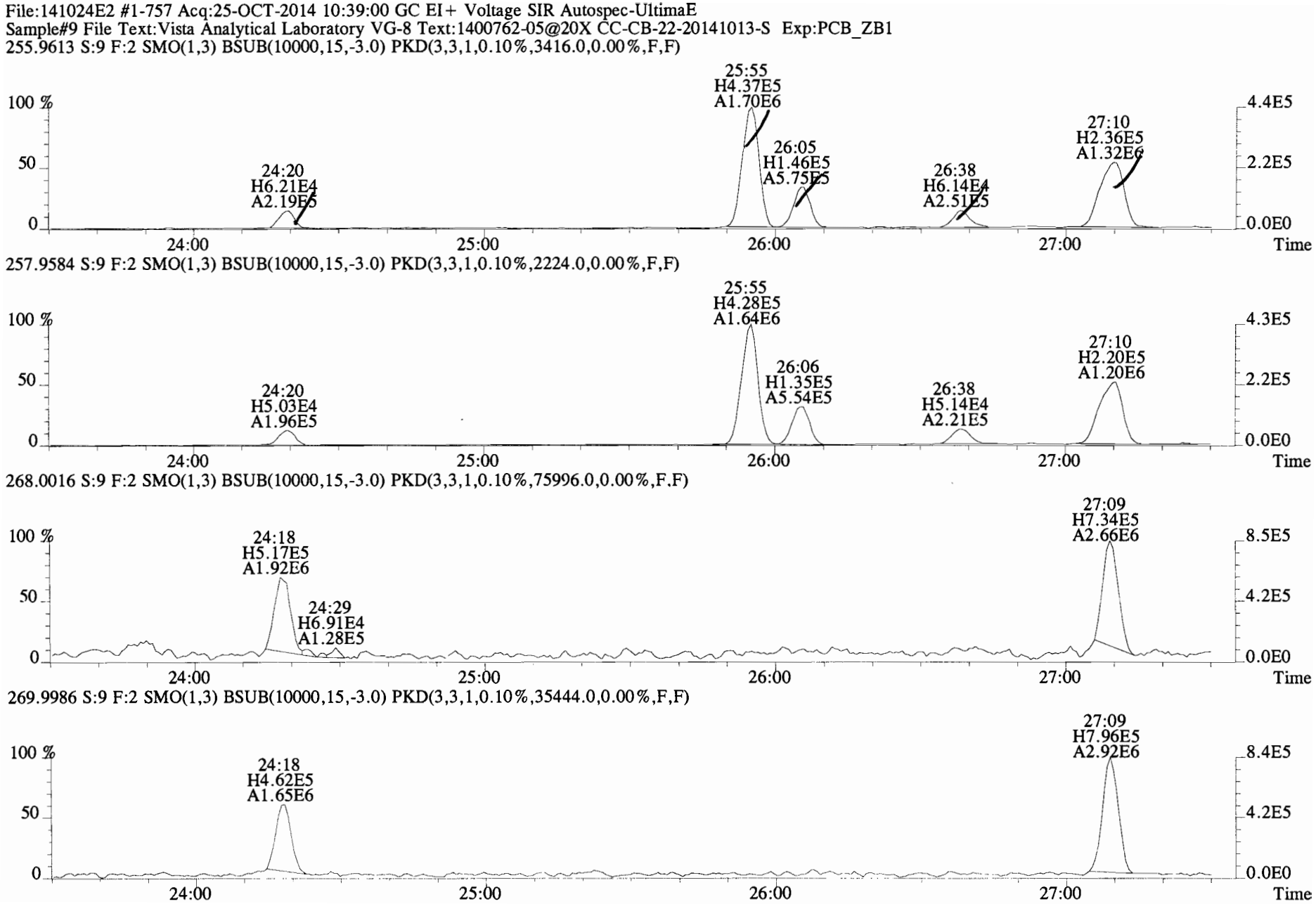
File:141024E2 #1-757 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
222.0003 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5740.0,0.00%,F,F)



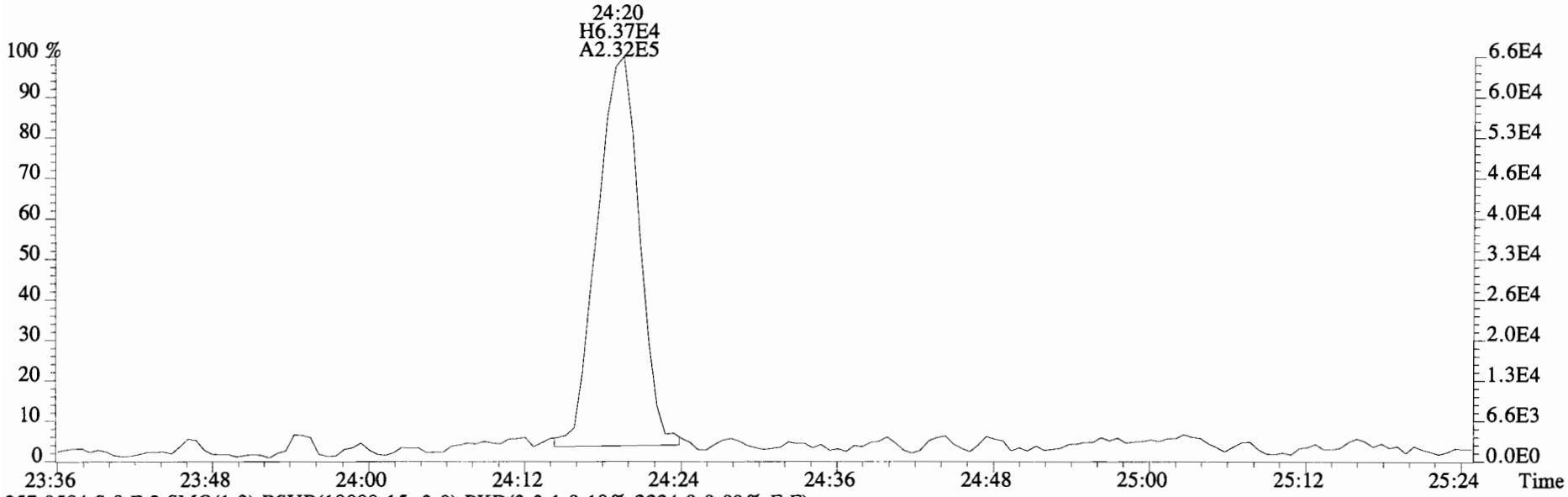
223.9974 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25640.0,0.00%,F,F)



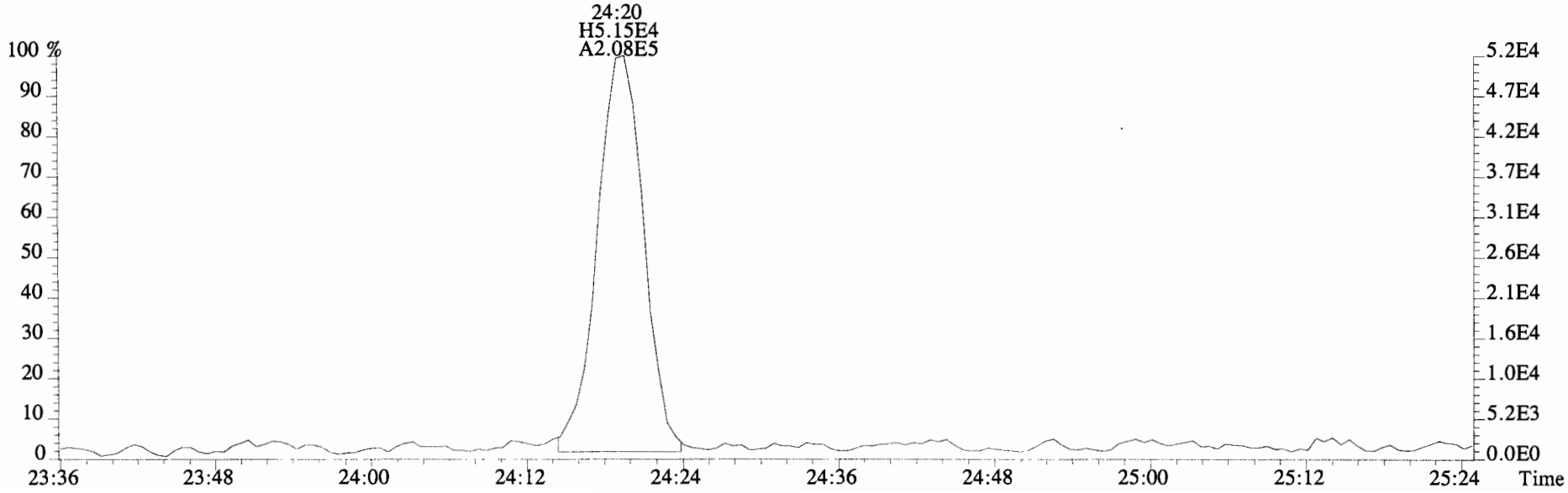

File:141024E2 #1-757 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
222.0003 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5740.0,0.00%,F,F)
x5.00
25:40
H8.00E4
A3.13E5
223.9974 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25640.0,0.00%,F,F)
x5.00
25:40
H5.76E4
A1.95E5
Time


File:141024E2 #1-757 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
255.9613 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3416.0,0.00%,F,F)
25:55 H4.37E5 A1.70E6
24:20 H6.21E4 A2.19E5
26:05 H1.46E5 A5.75E5
26:38 H6.14E4 A2.51E5
27:10 H2.36E5 A1.32E6
257.9584 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2224.0,0.00%,F,F)
25:55 H4.28E5 A1.64E6
24:20 H5.03E4 A1.96E5
26:06 H1.35E5 A5.54E5
26:38 H5.14E4 A2.21E5
27:10 H2.20E5 A1.20E6
268.0016 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,75996.0,0.00%,F,F)
27:09 H7.34E5 A2.66E6
24:18 H5.17E5 A1.92E6
24:29 H6.91E4 A1.28E5
269.9986 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,35444.0,0.00%,F,F)
27:09 H7.96E5 A2.92E6
24:18 H4.62E5 A1.65E6
100 %
50
0
24:00
25:00
26:00
27:00
Time
4.4E5
2.2E5
0.0E0
4.3E5
8.5E5
4.2E5
8.4E5

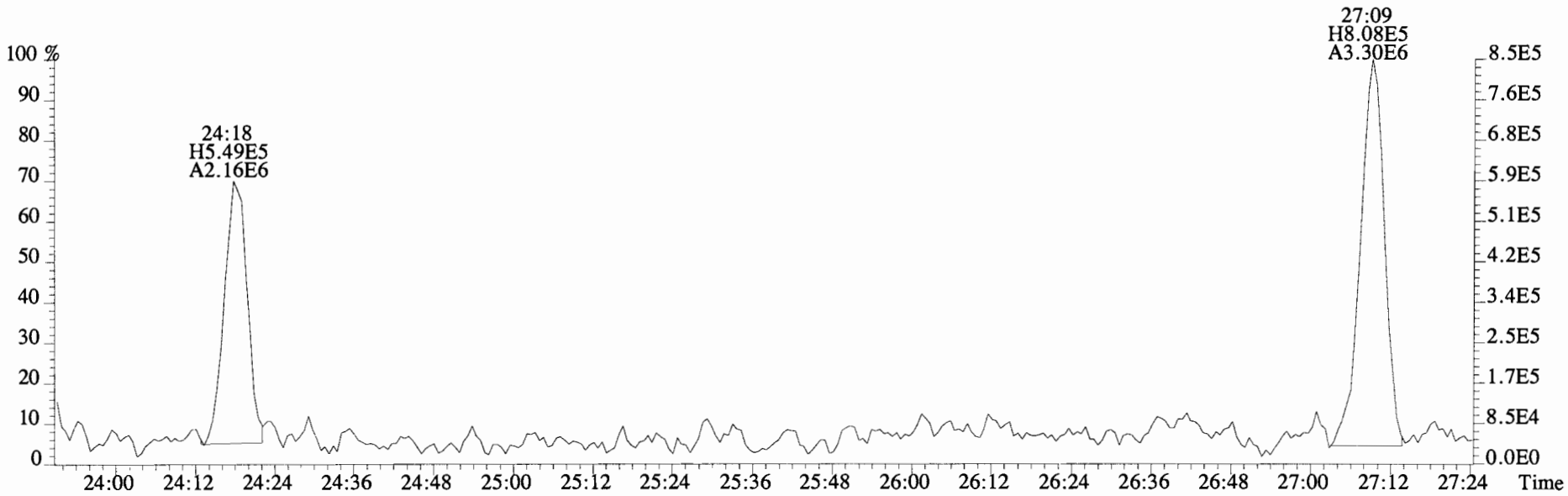
File:141024E2 #1-757 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
255.9613 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3416.0,0.00%,F,F)



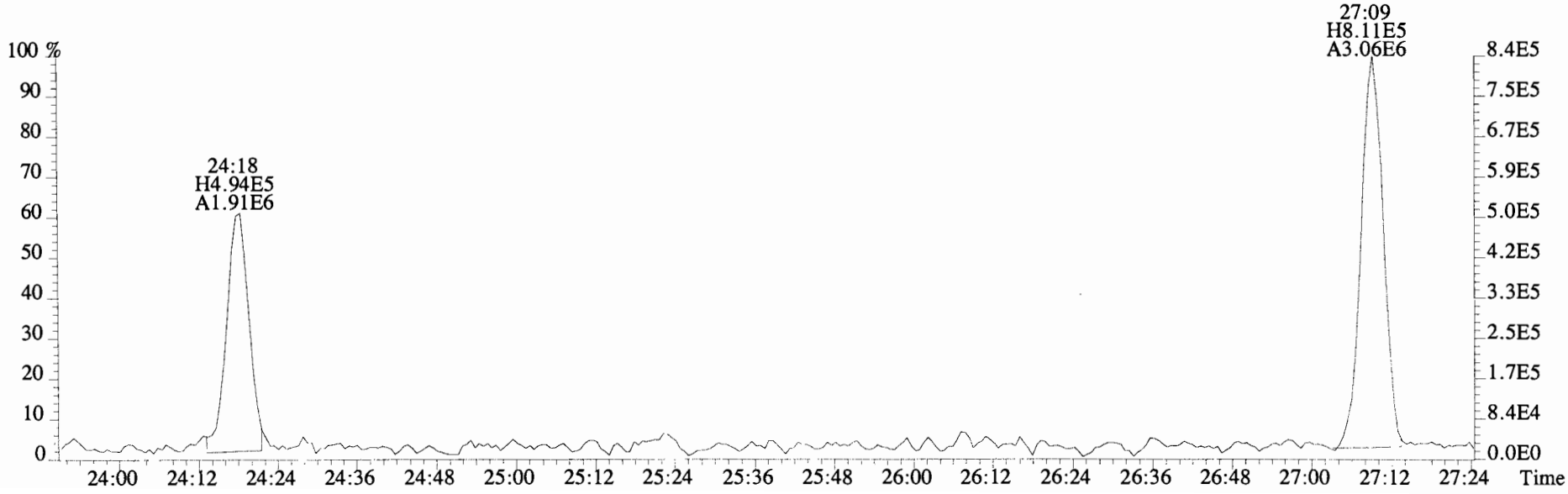
257.9584 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2224.0,0.00%,F,F)



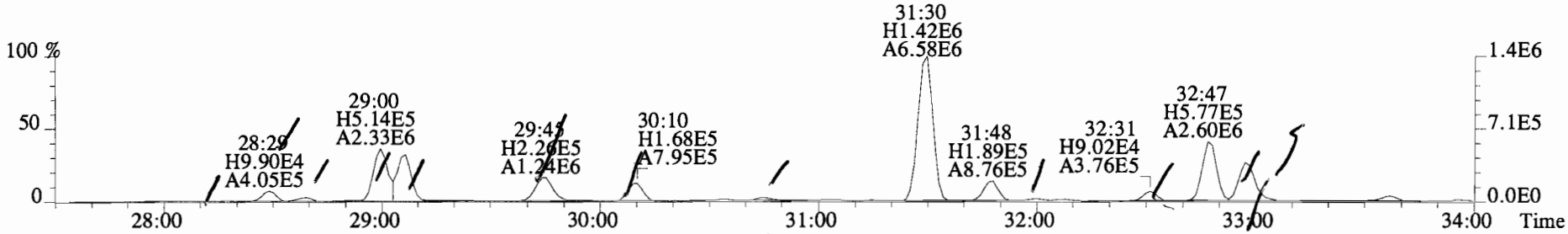
File:141024E2 #1-757 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
268.0016 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0)



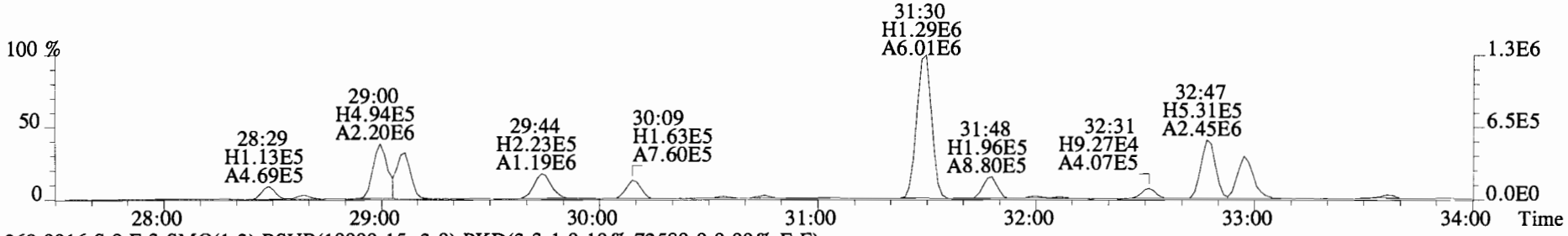
269.9986 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,35444.0,0.00%,F,F)



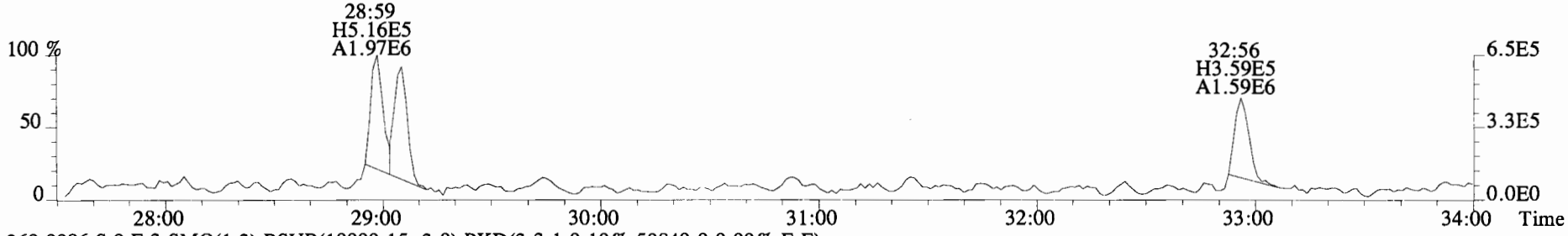
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
255.9613 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9408.0,0.00%,F,F)



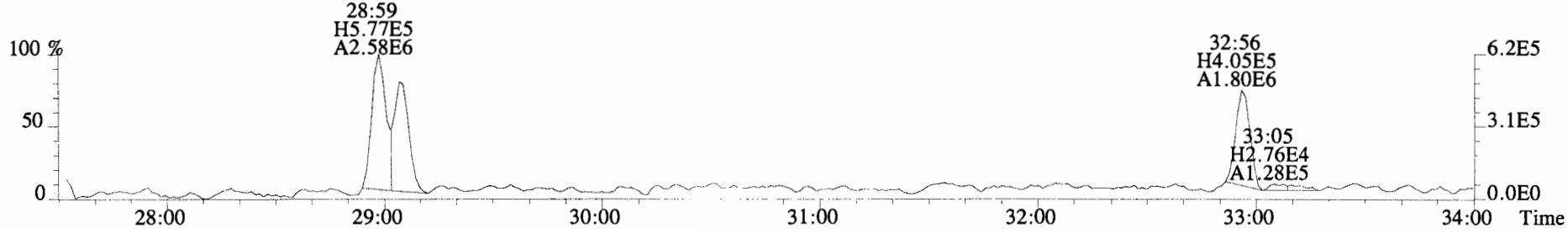
257.9584 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10552.0,0.00%,F,F)



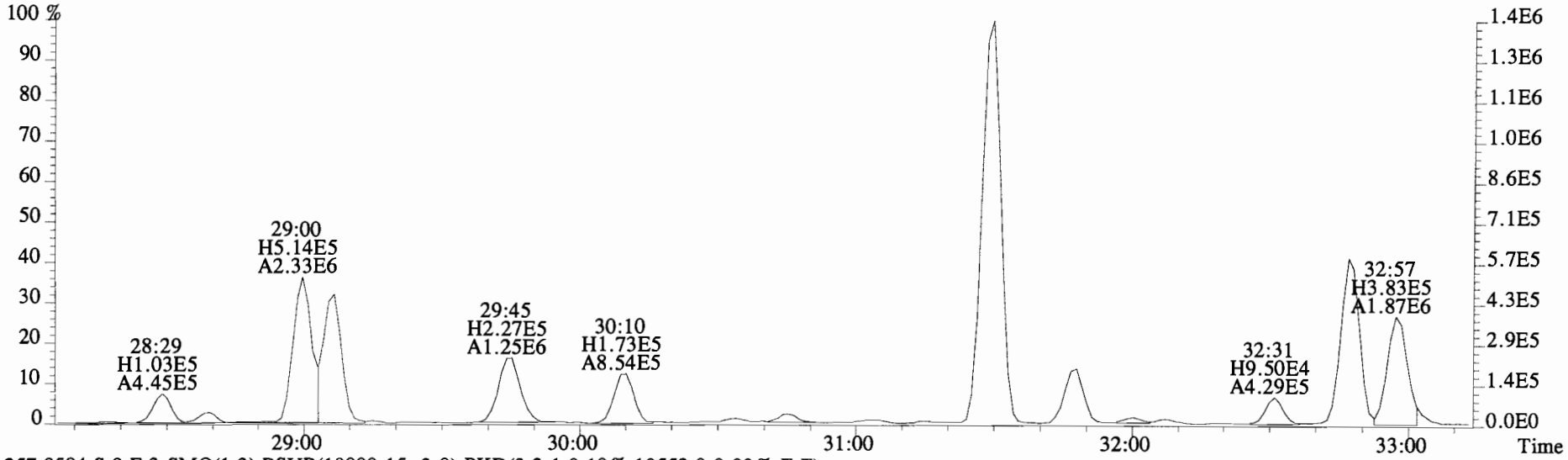
268.0016 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,72580.0,0.00%,F,F)



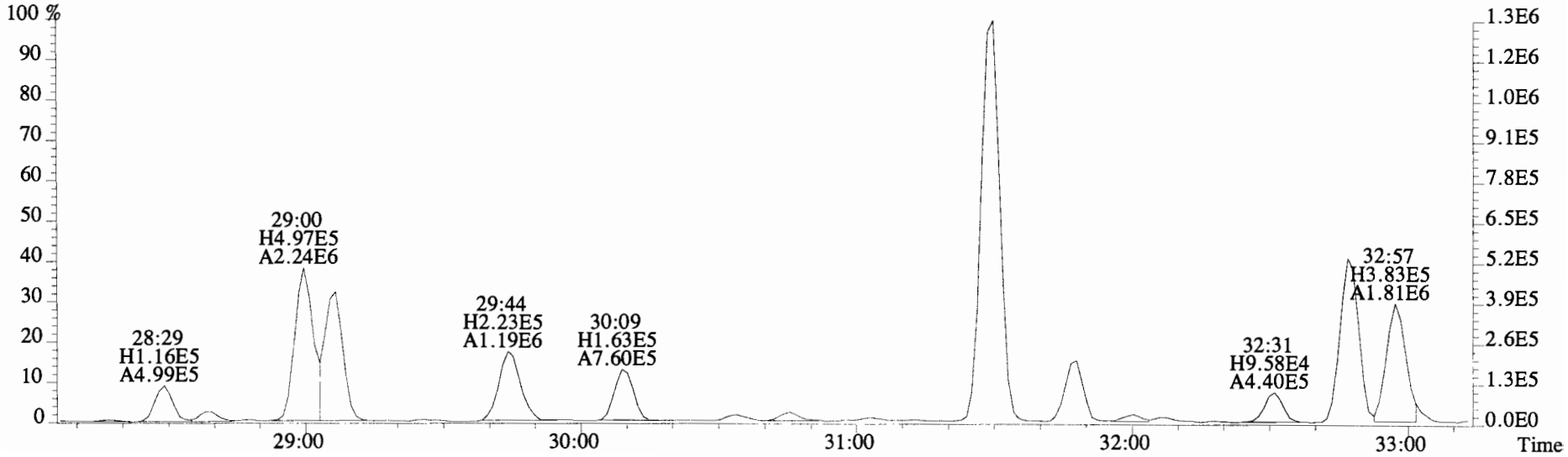
269.9986 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,50840.0,0.00%,F,F)



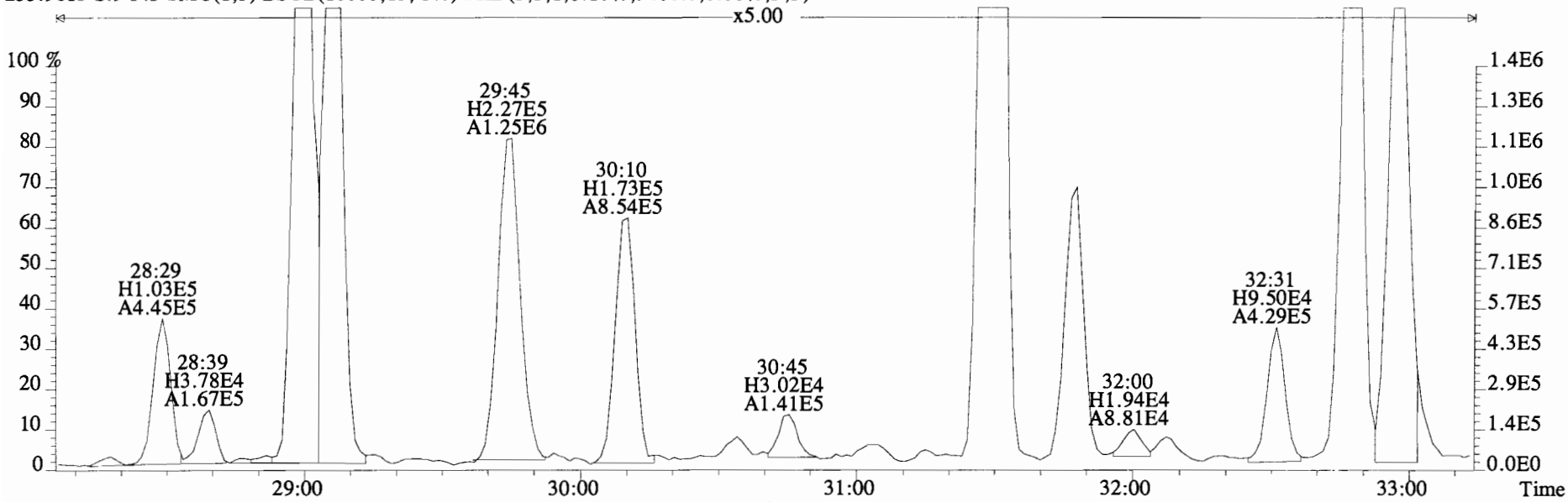
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
255.9613 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9408.0,0.00%,F,F)



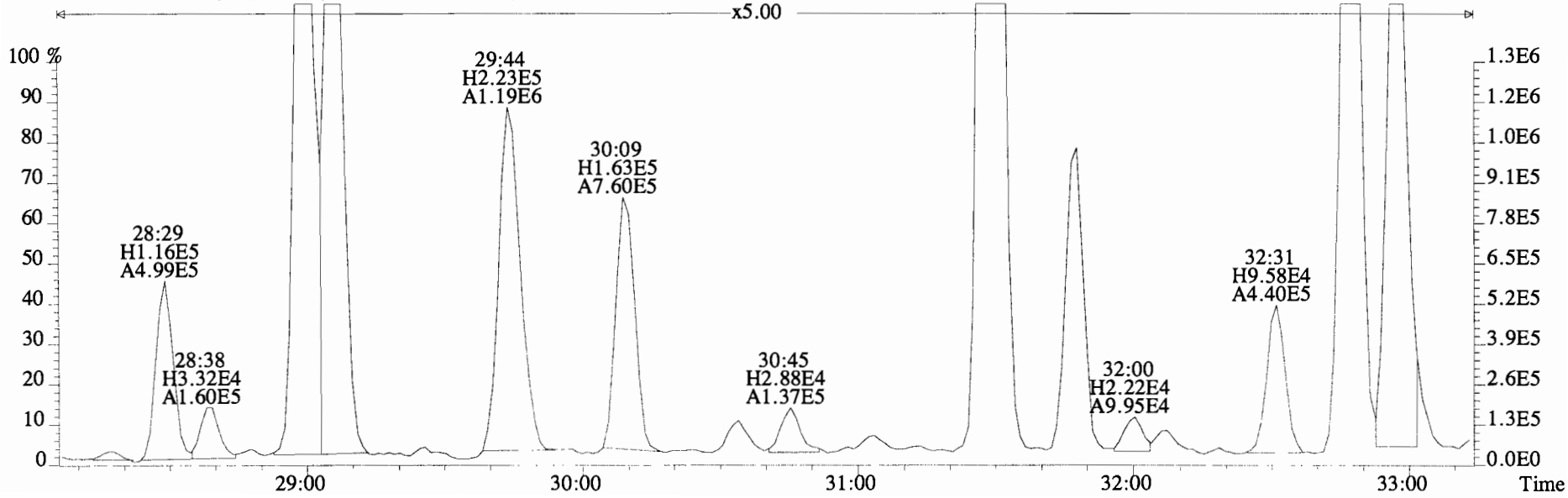
257.9584 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10552.0,0.00%,F,F)



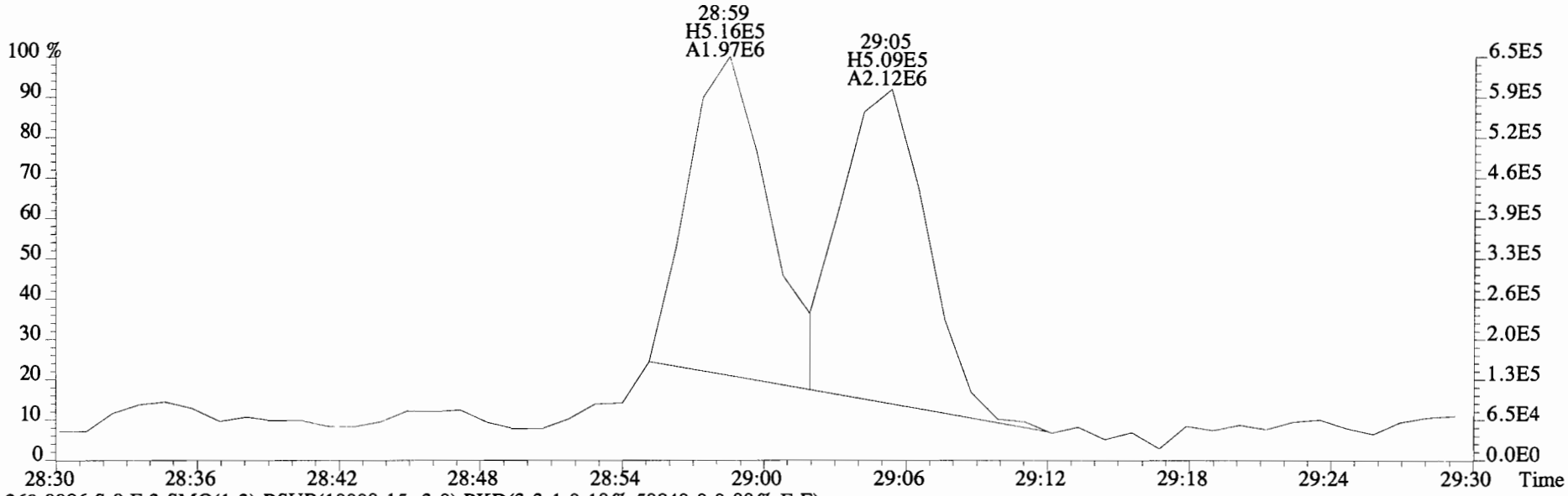
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
255.9613 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9408.0,0.00%,F,F)



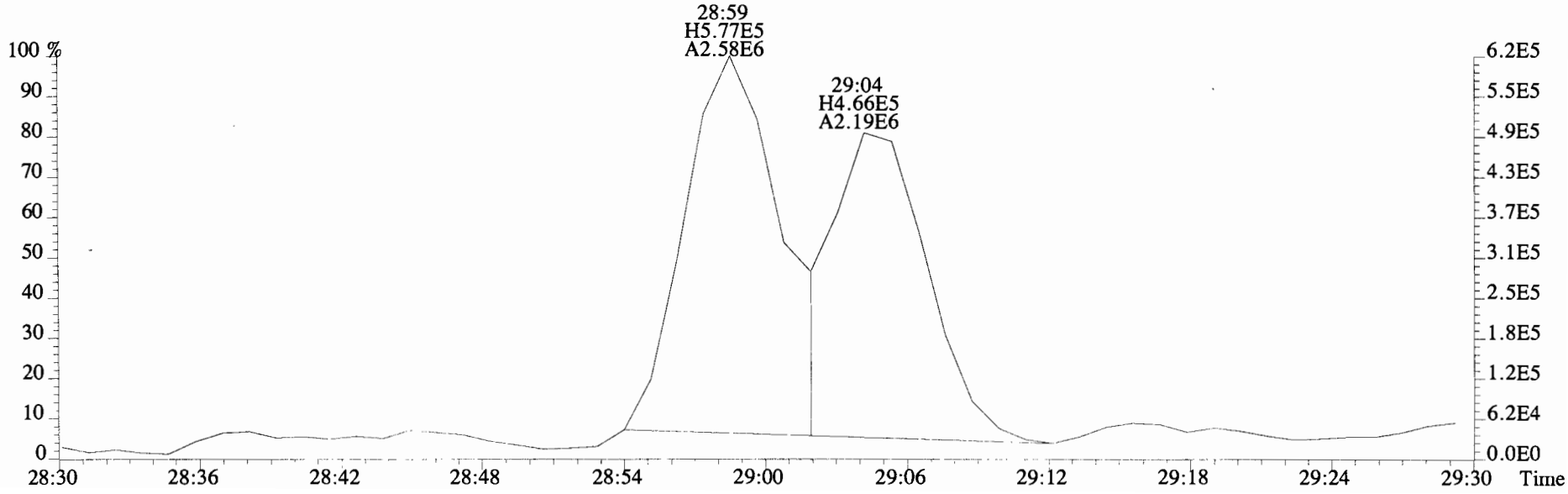
257.9584 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10552.0,0.00%,F,F)



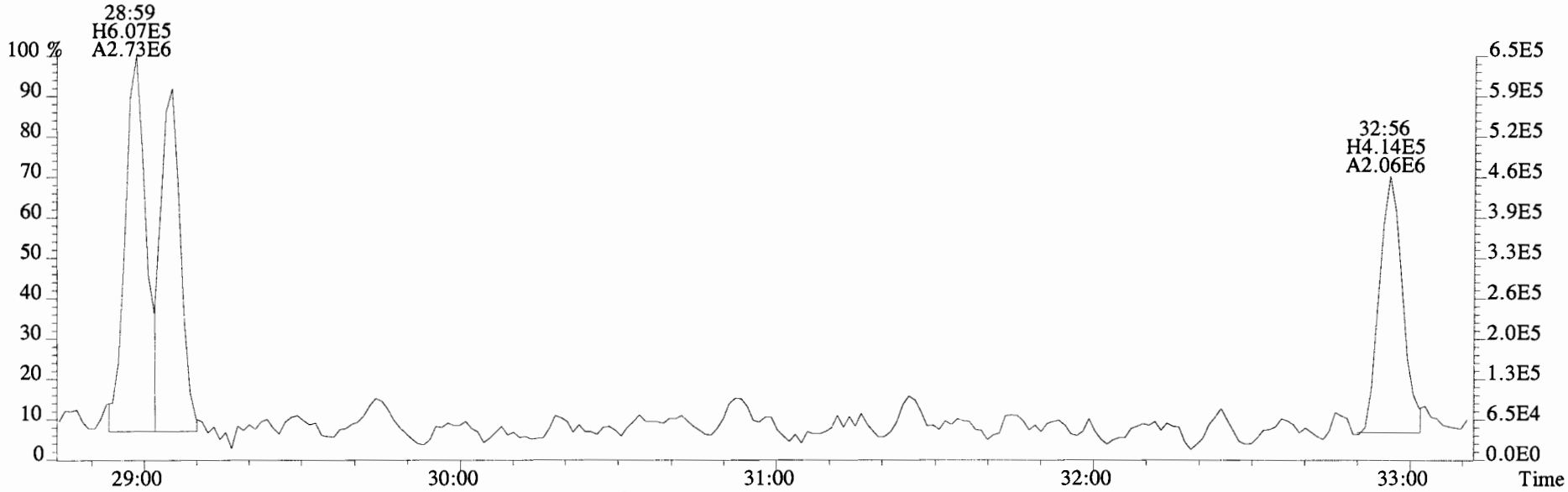
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
268.0016 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,72580.0,0.00%,F,F)



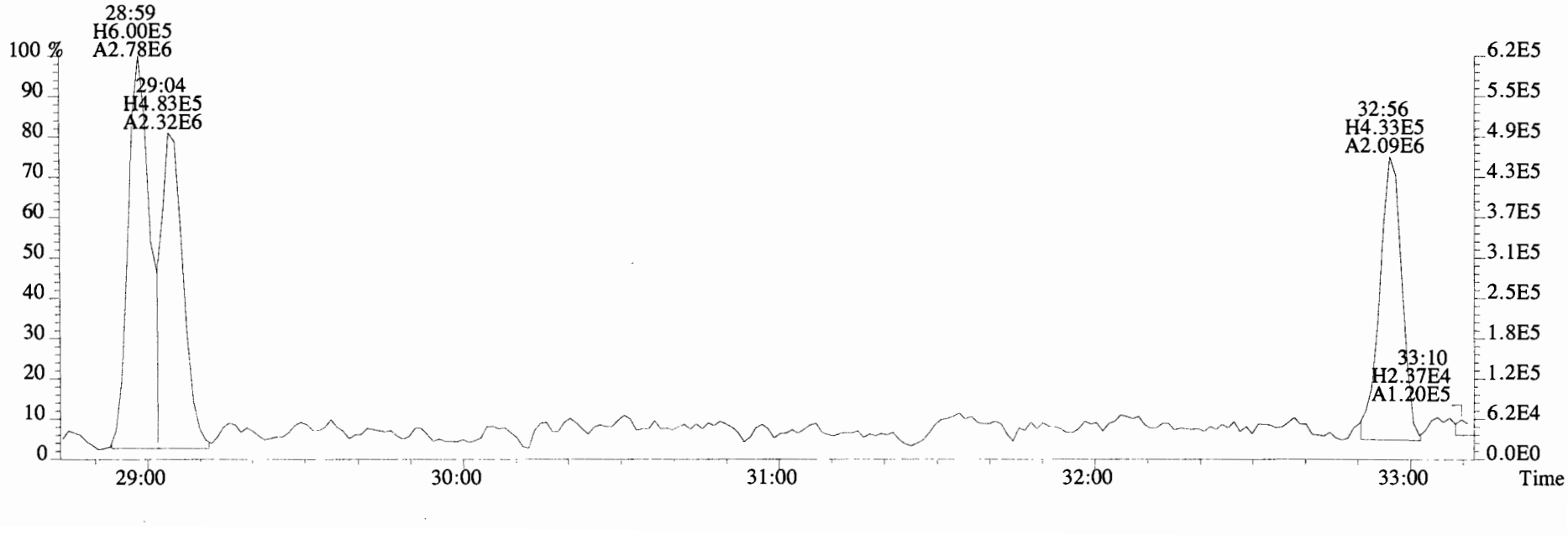
269.9986 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,50840.0,0.00%,F,F)

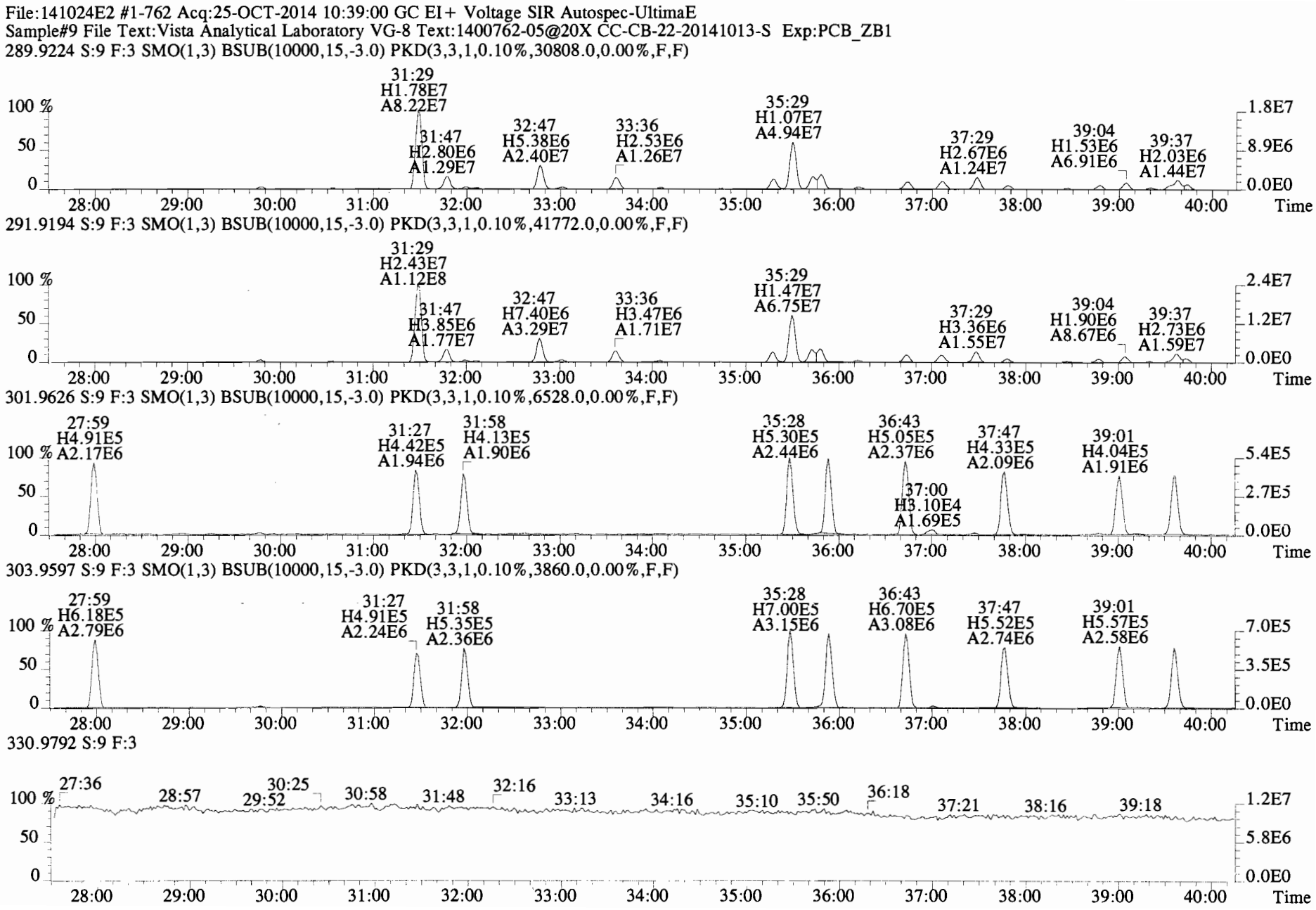


File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
268.0016 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,72580.0,0.00%,F,F)

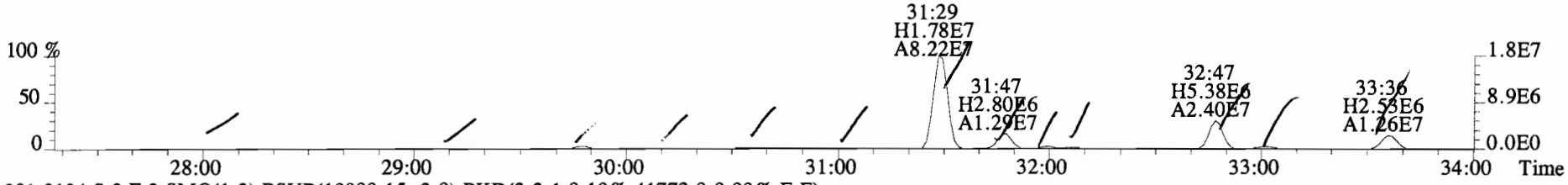


269.9986 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,50840.0,0.00%,F,F)

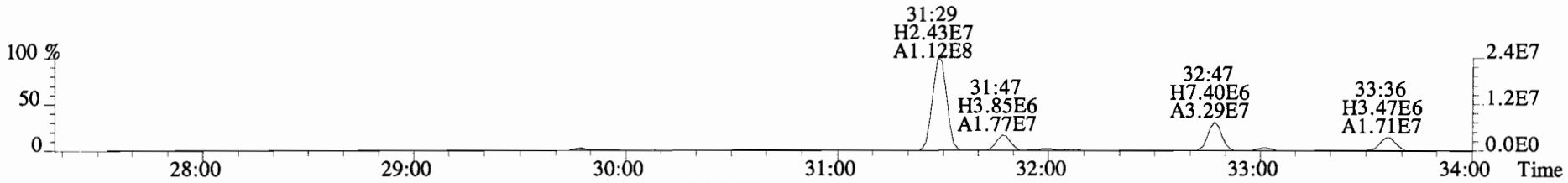



File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30808.0,0.00%,F,F)
31:29 H1.78E7 A8.22E7
31:47 H2.80E6 A1.29E7
32:47 H5.38E6 A2.40E7
33:36 H2.53E6 A1.26E7
35:29 H1.07E7 A4.94E7
37:29 H2.67E6 A1.24E7
39:04 H1.53E6 A6.91E6
39:37 H2.03E6 A1.44E7
291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41772.0,0.00%,F,F)
31:29 H2.43E7 A1.12E8
31:47 H3.85E6 A1.77E7
32:47 H7.40E6 A3.29E7
33:36 H3.47E6 A1.71E7
35:29 H1.47E7 A6.75E7
37:29 H3.36E6 A1.55E7
39:04 H1.90E6 A8.67E6
39:37 H2.73E6 A1.59E7
301.9626 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6528.0,0.00%,F,F)
27:59 H4.91E5 A2.17E6
31:27 H4.42E5 A1.94E6
31:58 H4.13E5 A1.90E6
35:28 H5.30E5 A2.44E6
36:43 H5.05E5 A2.37E6
37:00 H3.10E4 A1.69E5
37:47 H4.33E5 A2.09E6
39:01 H4.04E5 A1.91E6
303.9597 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3860.0,0.00%,F,F)
27:59 H6.18E5 A2.79E6
31:27 H4.91E5 A2.24E6
31:58 H5.35E5 A2.36E6
35:28 H7.00E5 A3.15E6
36:43 H6.70E5 A3.08E6
37:47 H5.52E5 A2.74E6
39:01 H5.57E5 A2.58E6
330.9792 S:9 F:3
27:36
28:57
29:52
30:25
30:58
31:48
32:16
33:13
34:16
35:10
35:50
36:18
37:21
38:16
39:18
100 %
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
37:00
38:00
39:00
40:00
Time
1.8E7
8.9E6
0.0E0
2.4E7
1.2E7
5.4E5
2.7E5
7.0E5
3.5E5
1.2E7
5.8E6

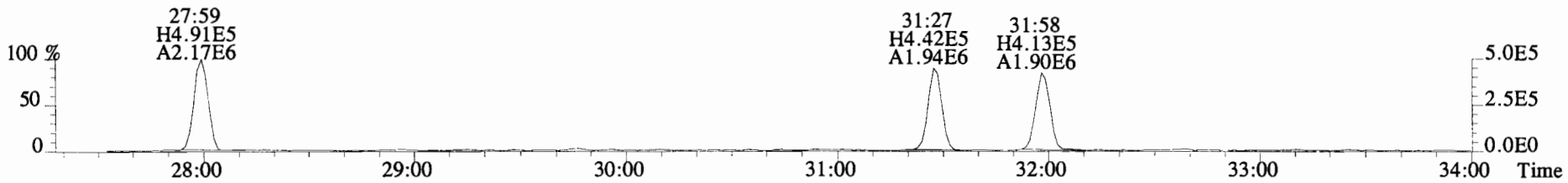
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30808.0,0.00%,F,F)



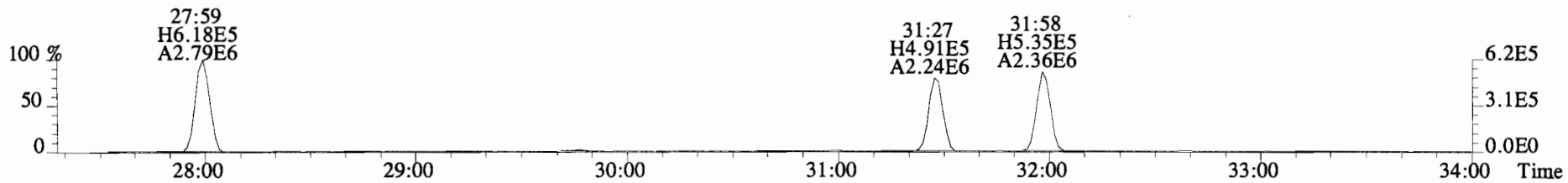
291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41772.0,0.00%,F,F)



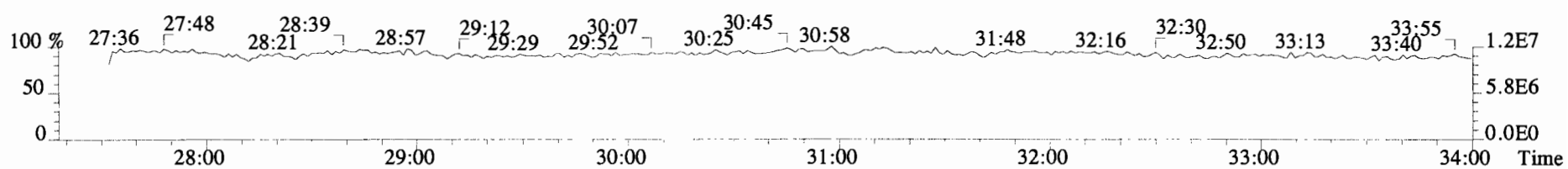
301.9626 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6528.0,0.00%,F,F)



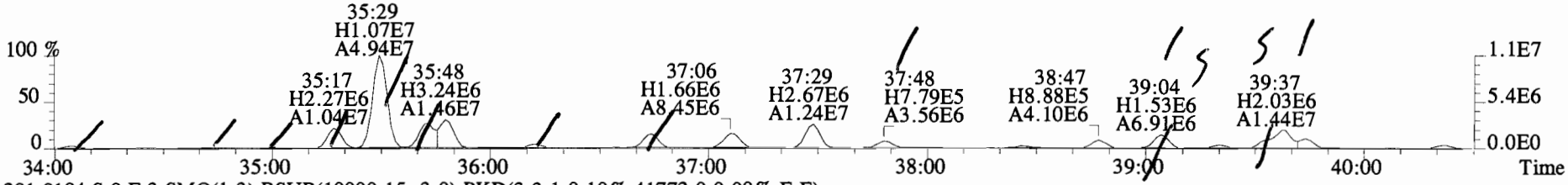
303.9597 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3860.0,0.00%,F,F)



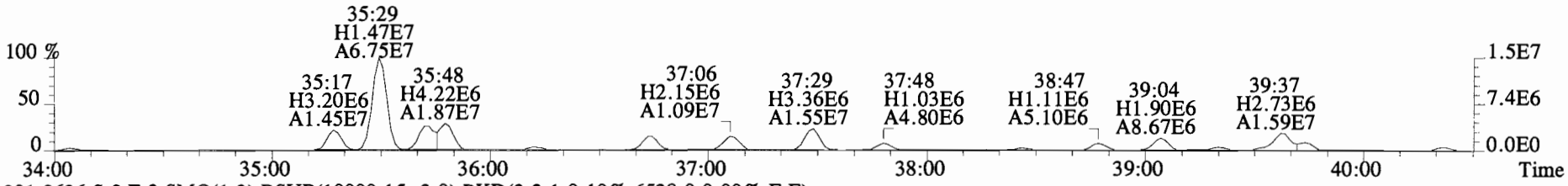
330.9792 S:9 F:3



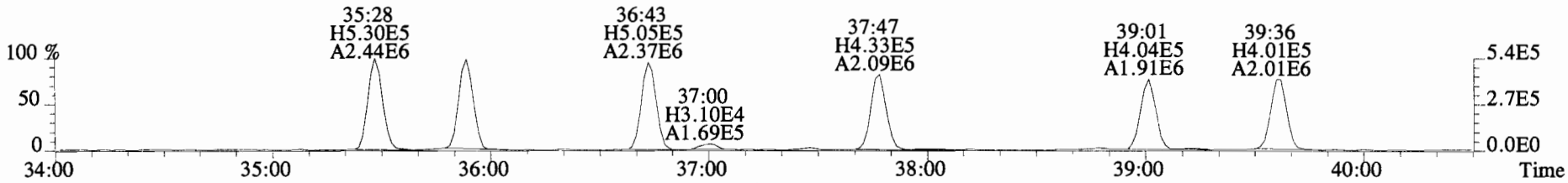
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30808.0,0.00%,F,F)



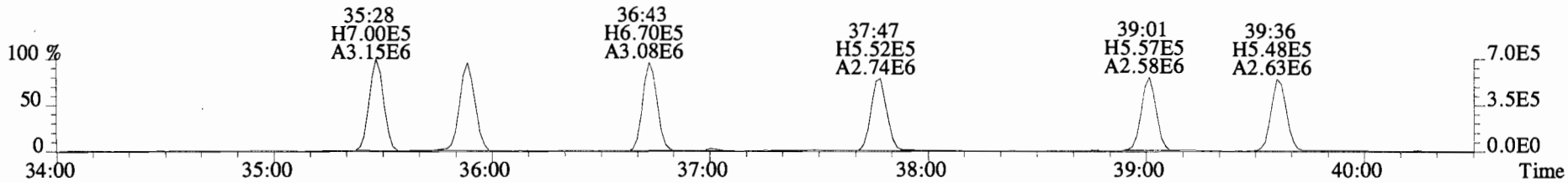
291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41772.0,0.00%,F,F)



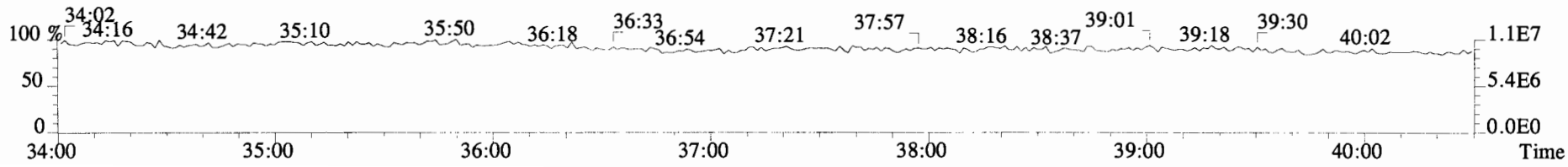
301.9626 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6528.0,0.00%,F,F)



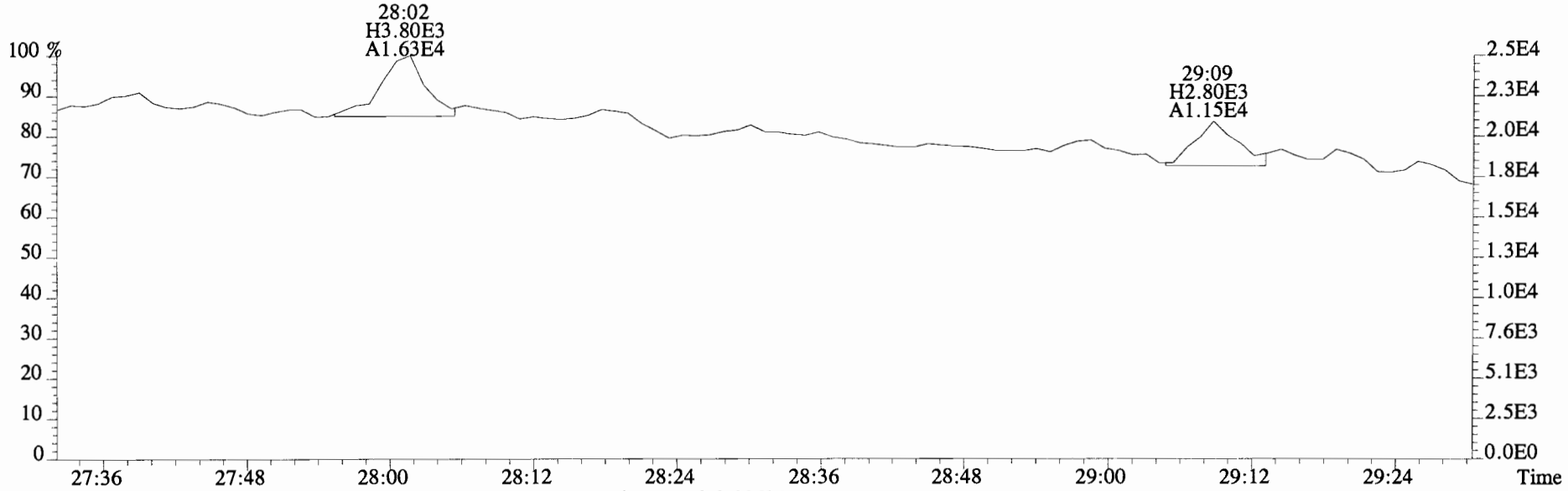
303.9597 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3860.0,0.00%,F,F)



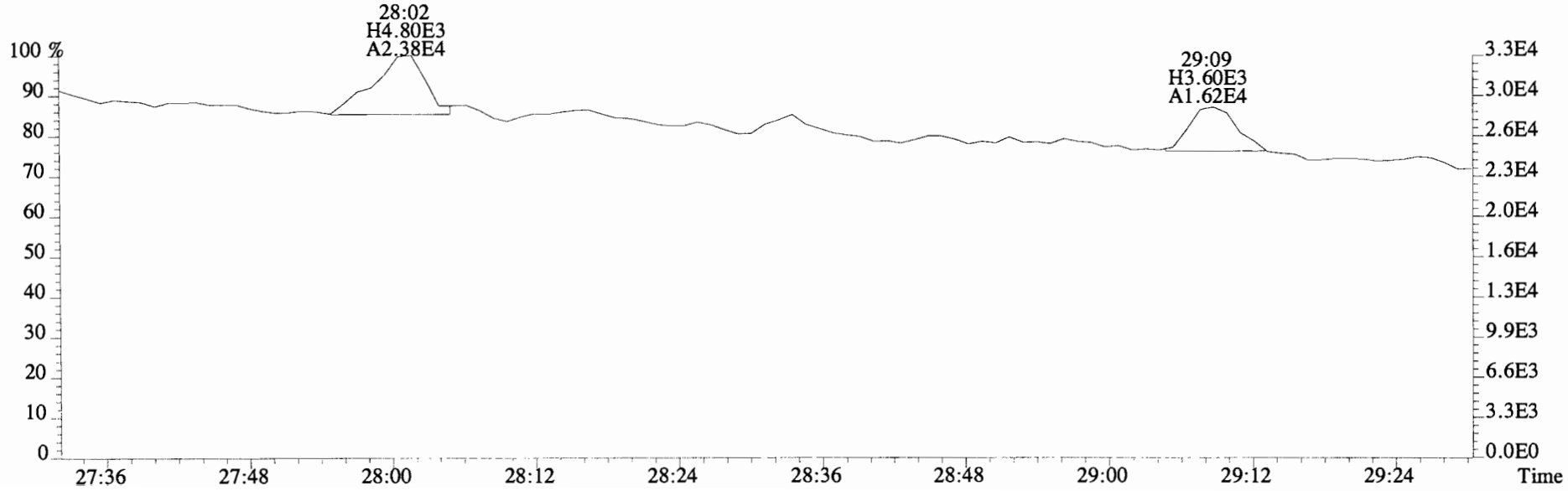
330.9792 S:9 F:3



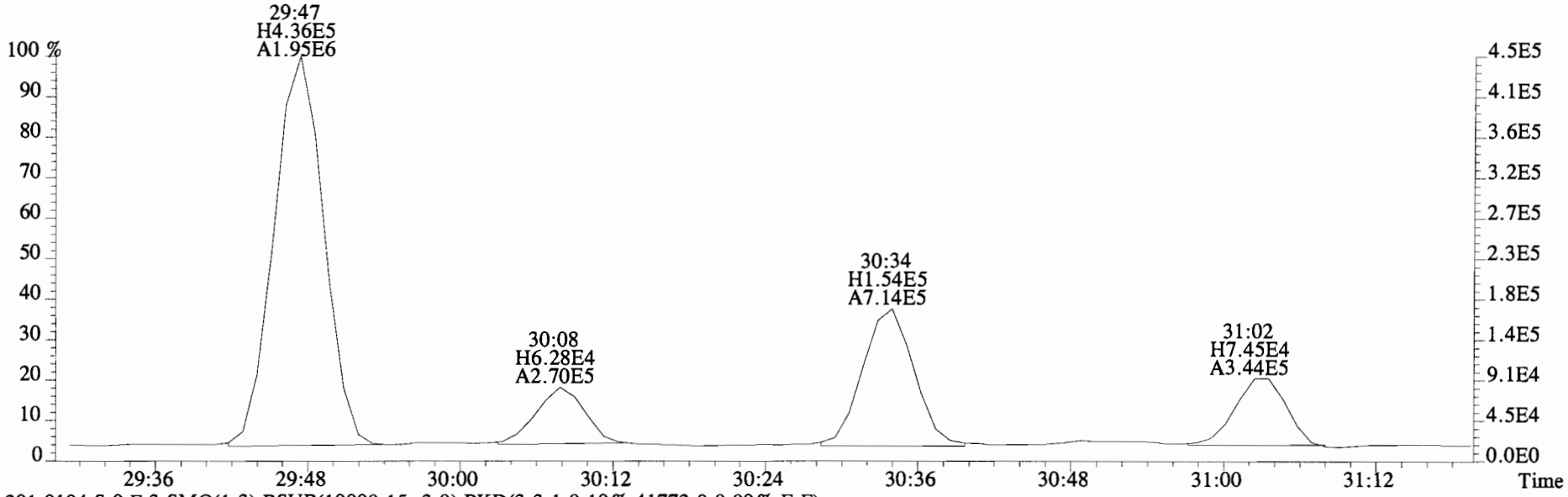
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30808.0,0.00%,F,F)



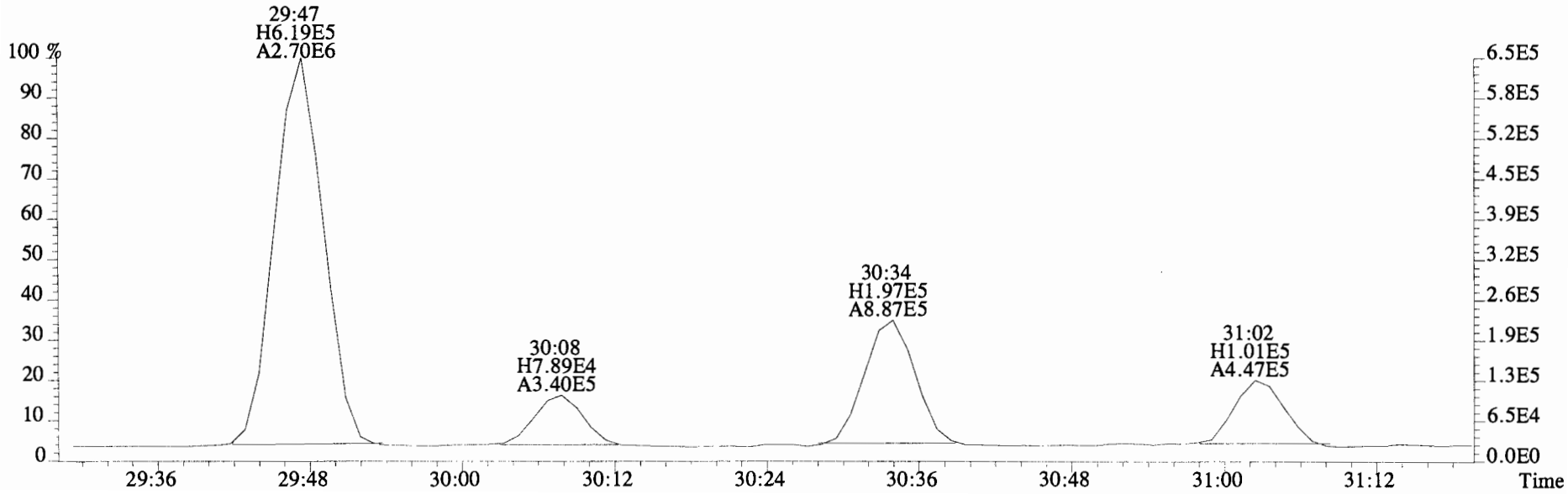
291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41772.0,0.00%,F,F)



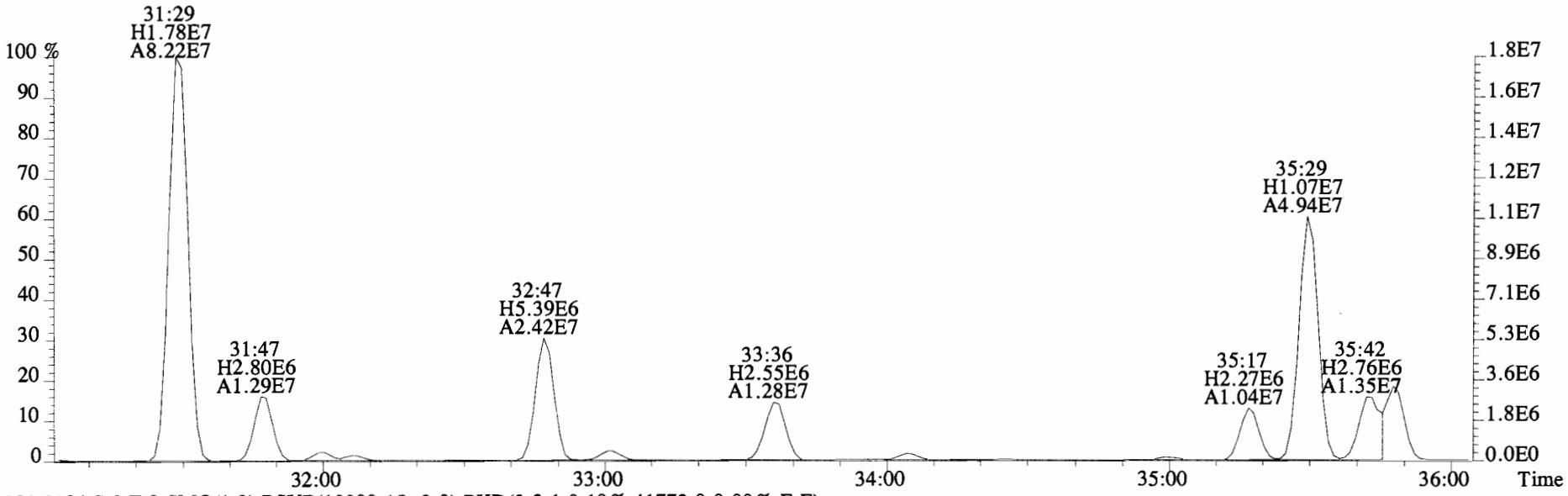
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30808.0,0.00%,F,F)



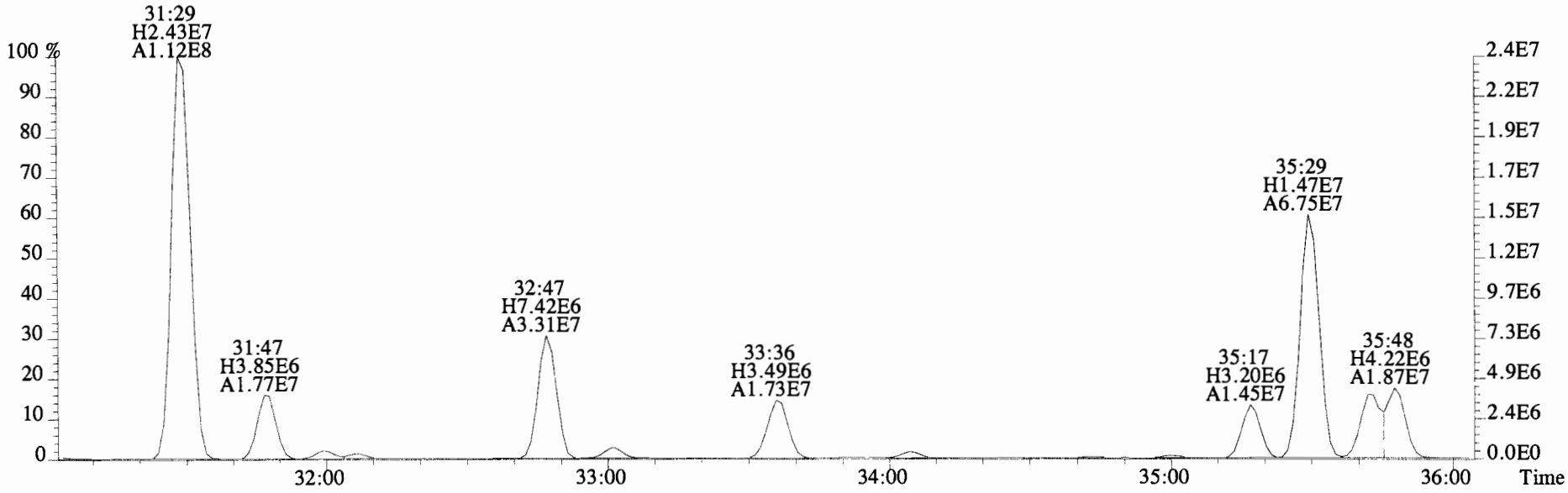
291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41772.0,0.00%,F,F)

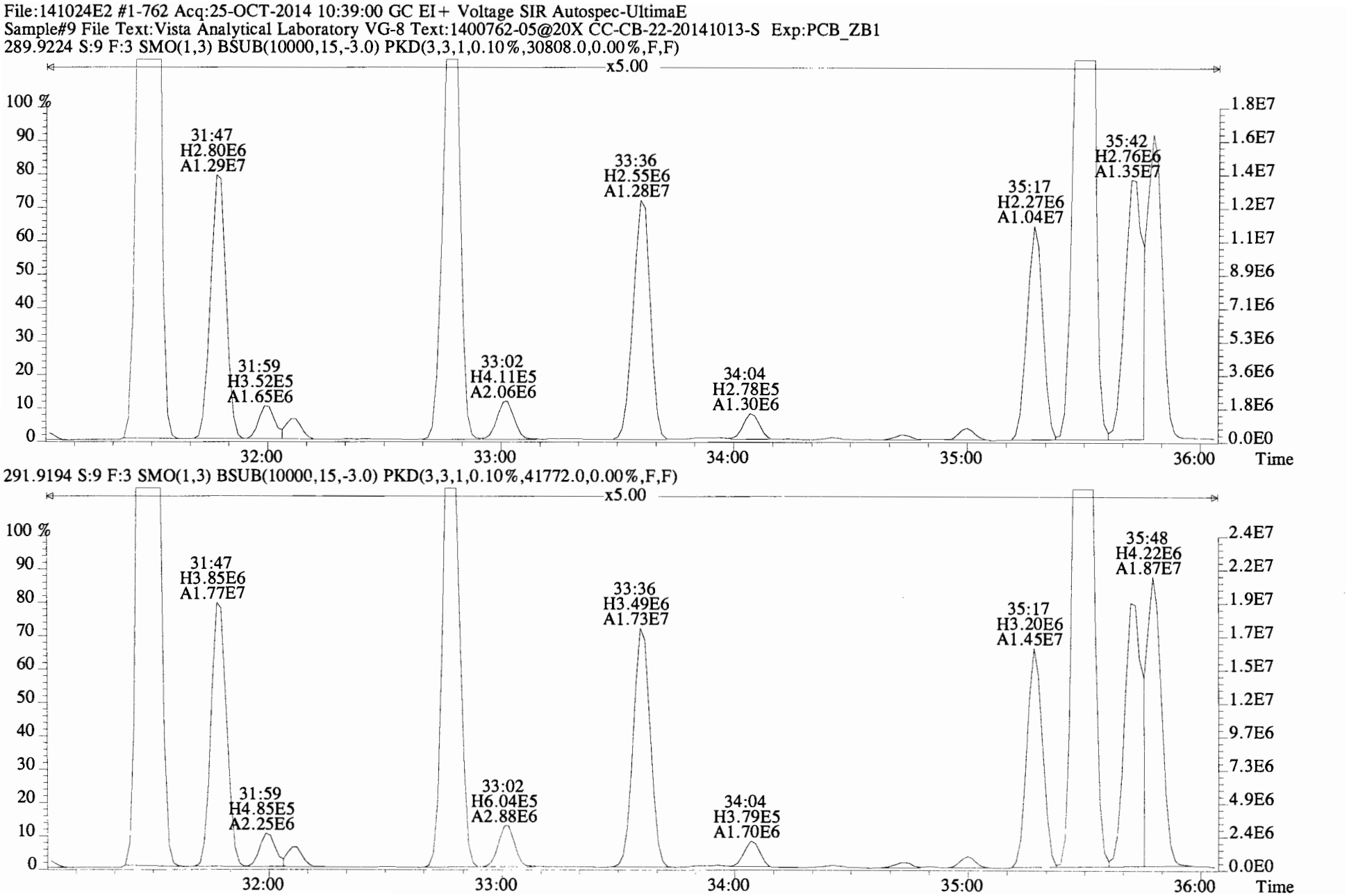


File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30808.0,0.00%,F,F)

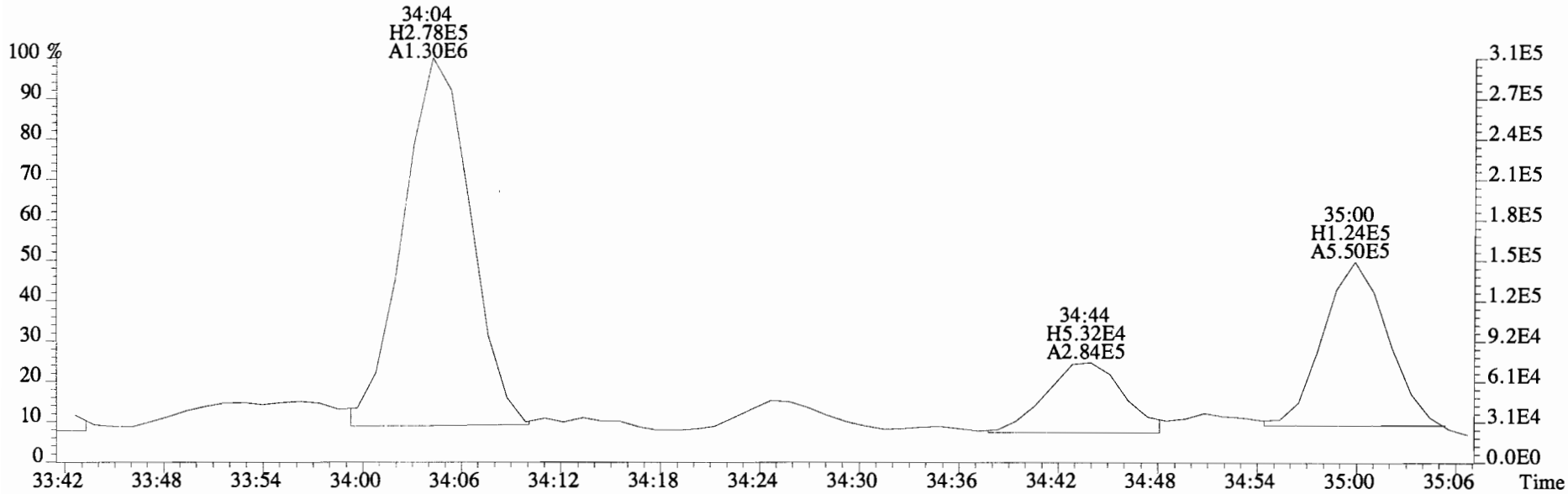


291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41772.0,0.00%,F,F)

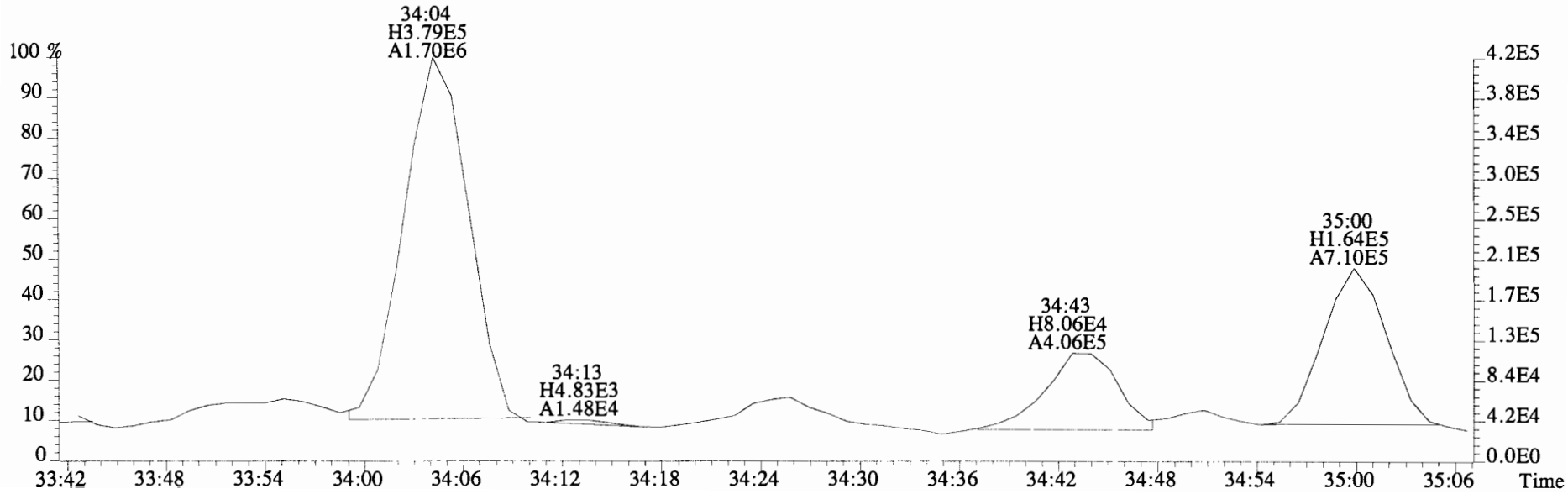



File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30808.0,0.00%,F,F)
x5.00
31:47
H2.80E6
A1.29E7
31:59
H3.52E5
A1.65E6
33:02
H4.11E5
A2.06E6
33:36
H2.55E6
A1.28E7
34:04
H2.78E5
A1.30E6
35:17
H2.27E6
A1.04E7
35:42
H2.76E6
A1.35E7
Time
291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41772.0,0.00%,F,F)
x5.00
31:47
H3.85E6
A1.77E7
31:59
H4.85E5
A2.25E6
33:02
H6.04E5
A2.88E6
33:36
H3.49E6
A1.73E7
34:04
H3.79E5
A1.70E6
35:17
H3.20E6
A1.45E7
35:48
H4.22E6
A1.87E7
Time

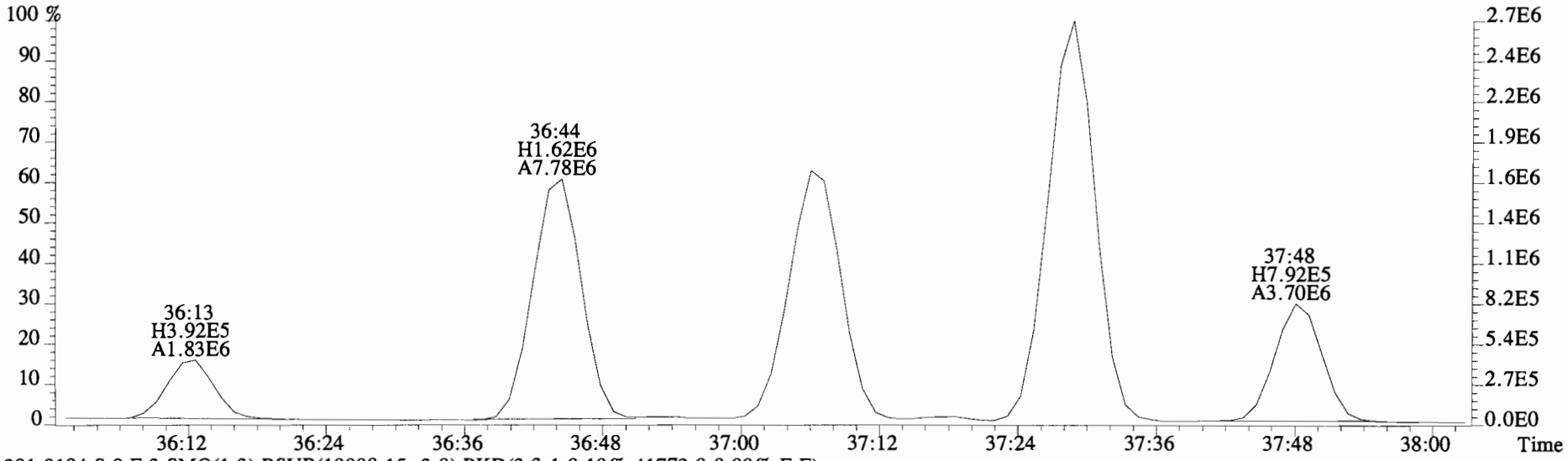
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30808.0,0.00%,F,F)



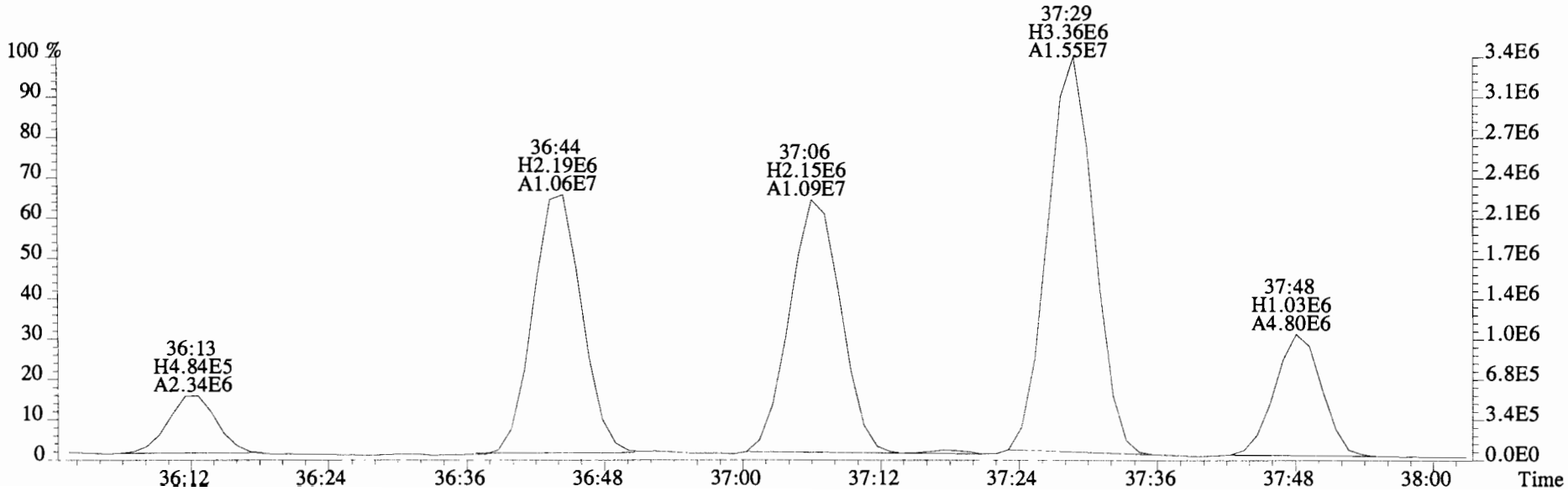
291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41772.0,0.00%,F,F)



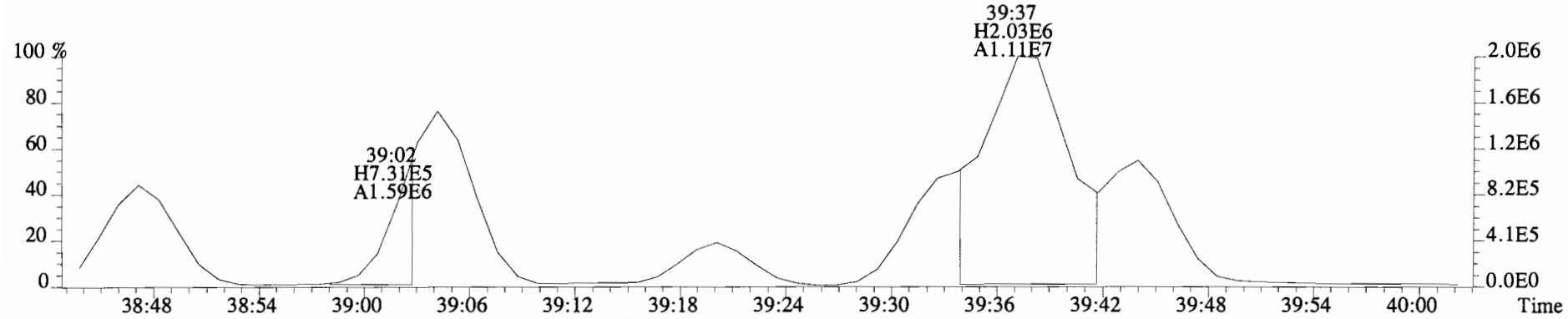
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30808.0,0.00%,F,F)



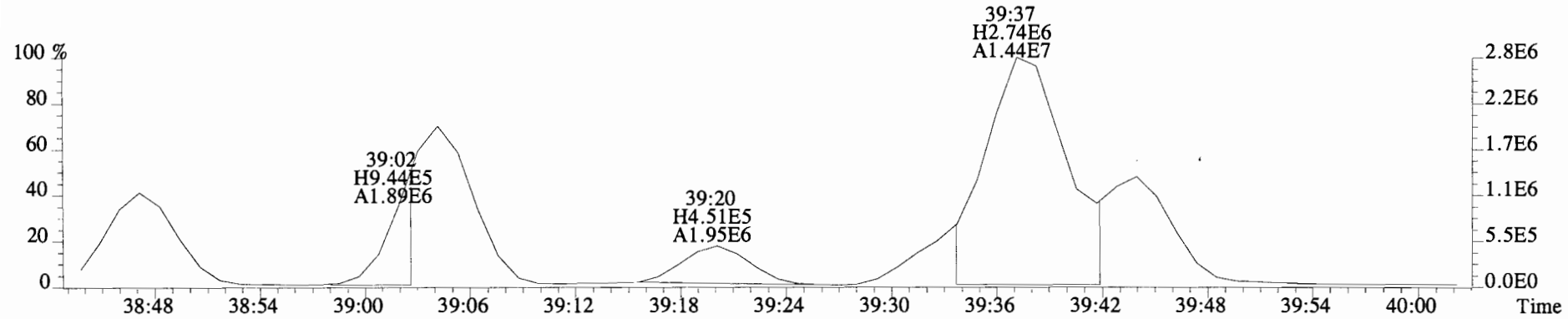
291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41772.0,0.00%,F,F)



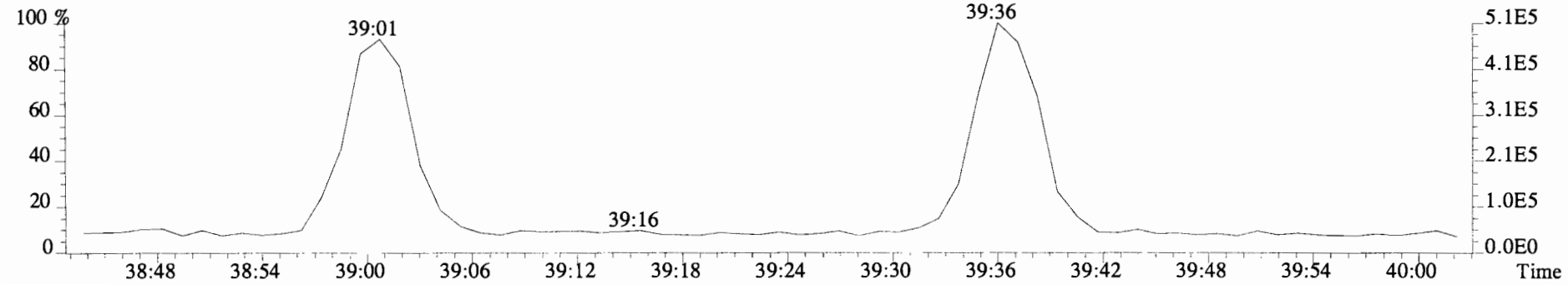
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30808.0,0.00%,F,F)



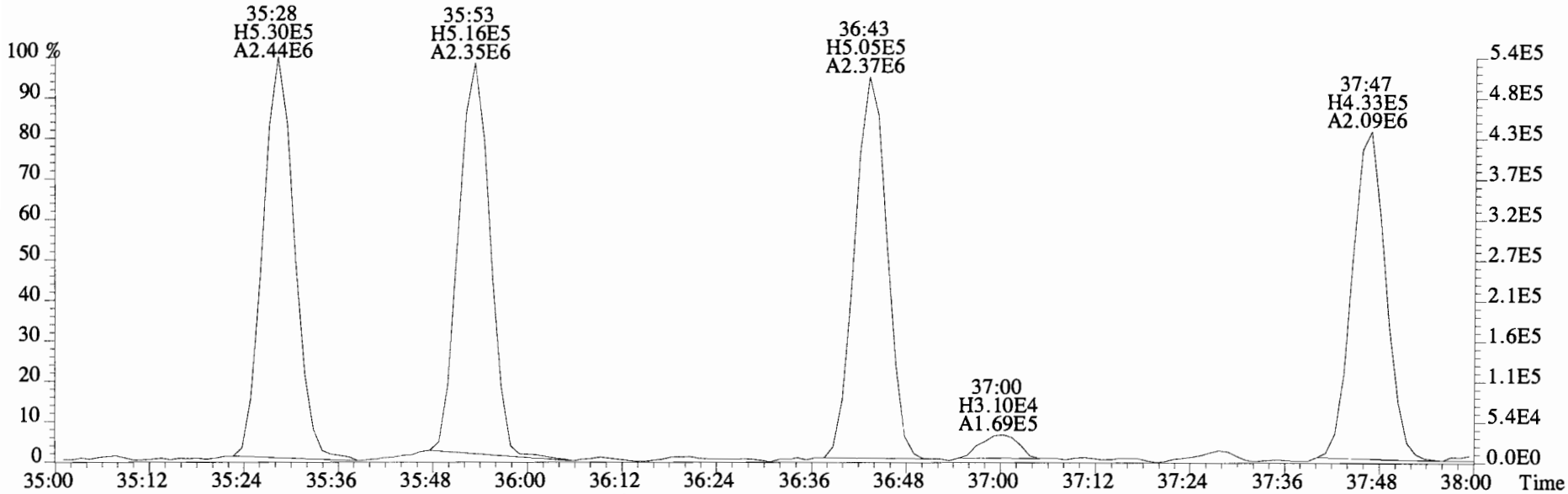
291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41772.0,0.00%,F,F)



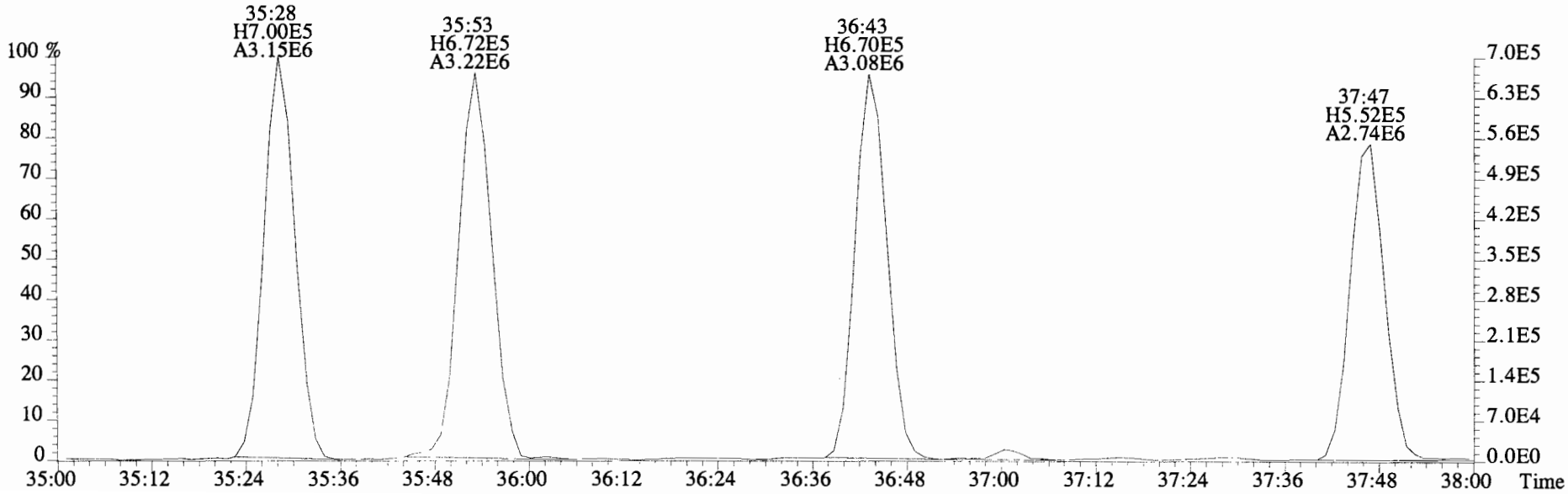
301.9626 S:9 F:3



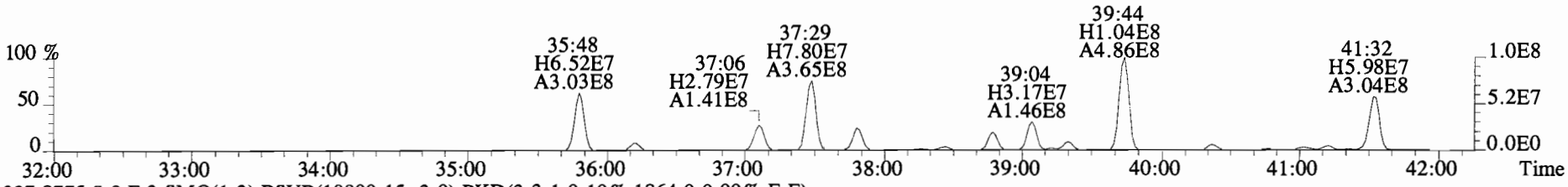
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
301.9626 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6528.0,0.00%,F,F)



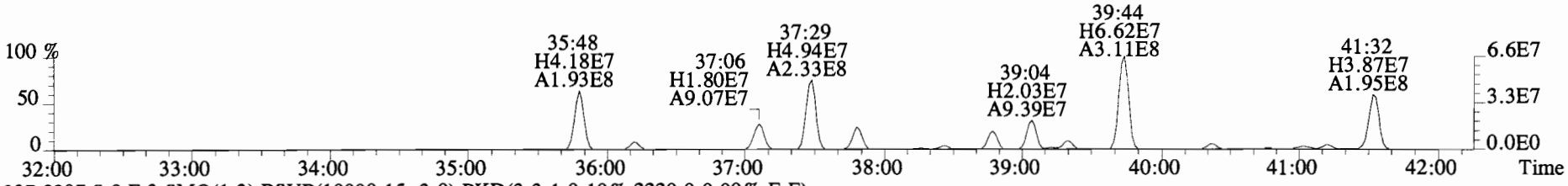
303.9597 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3860.0,0.00%,F,F)



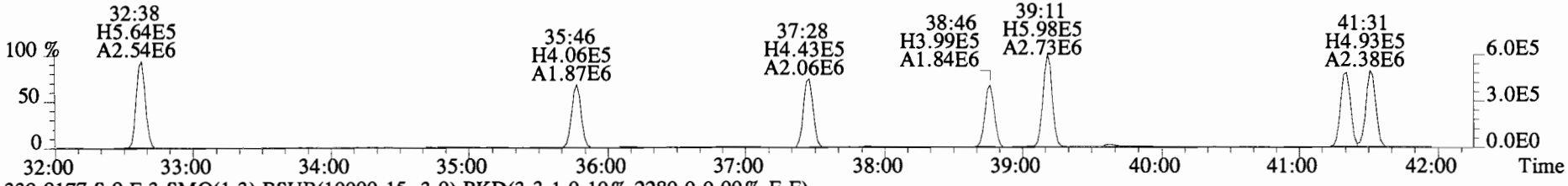
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
325.8804 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2172.0,0.00%,F,F)



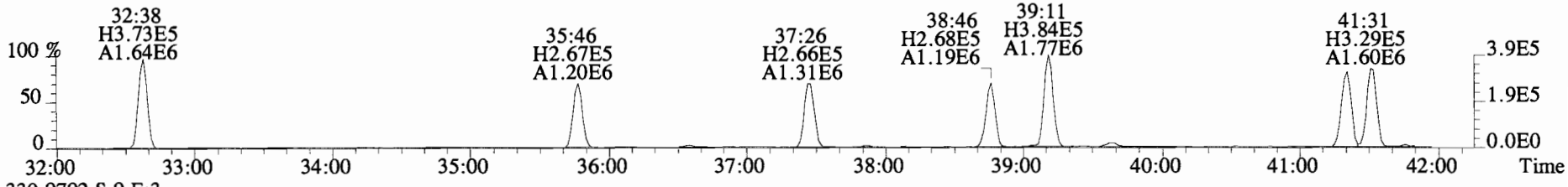
327.8775 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1864.0,0.00%,F,F)



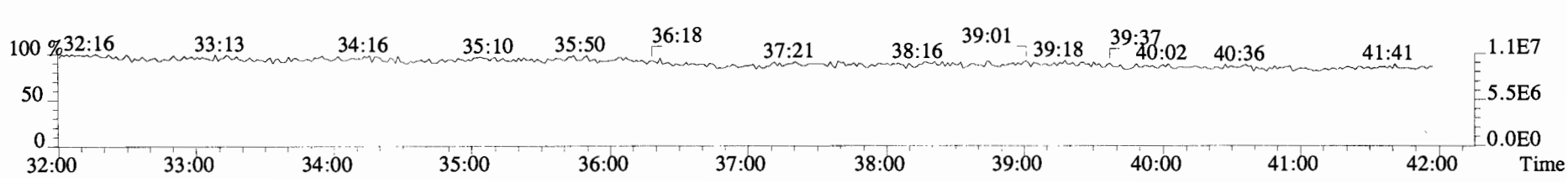
337.9207 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2220.0,0.00%,F,F)



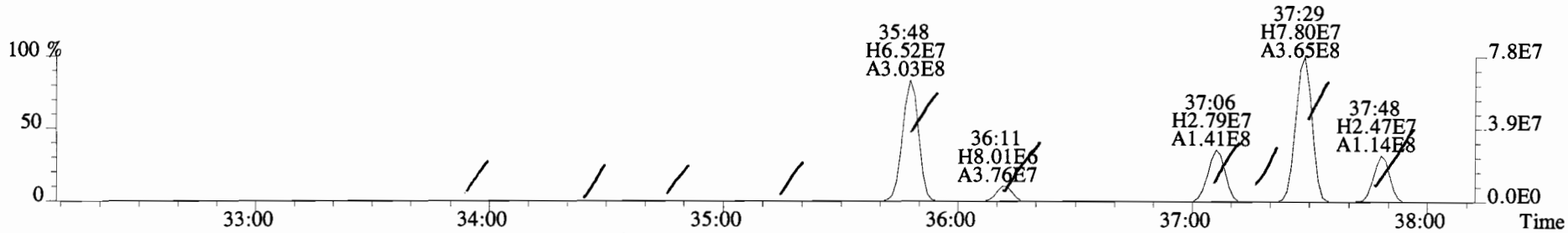
339.9177 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2280.0,0.00%,F,F)



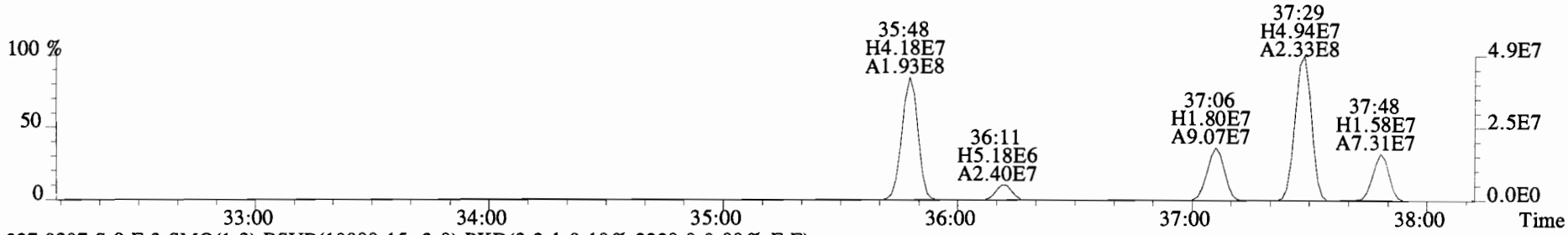
330.9792 S:9 F:3



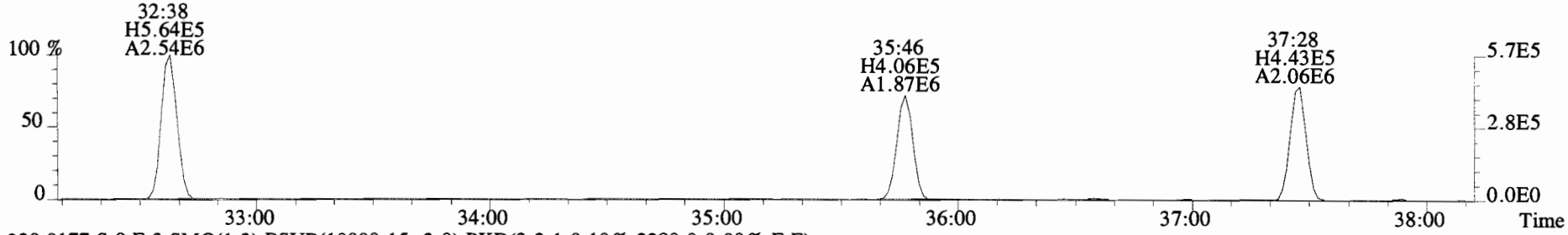
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
325.8804 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2172.0,0.00%,F,F)



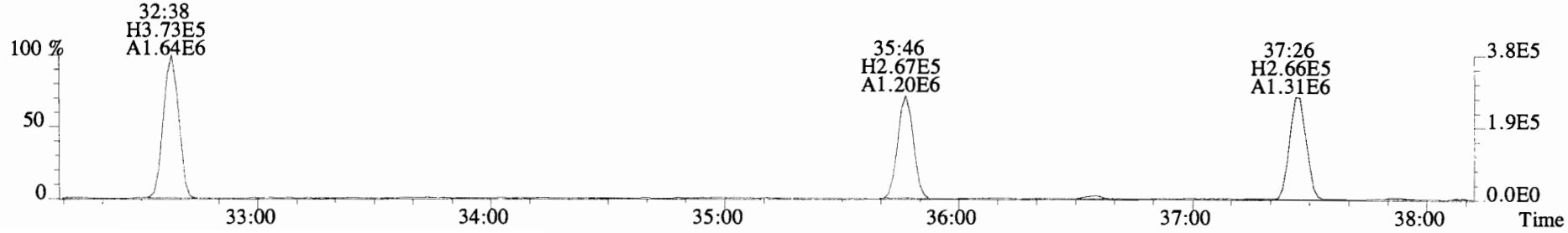
327.8775 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1864.0,0.00%,F,F)



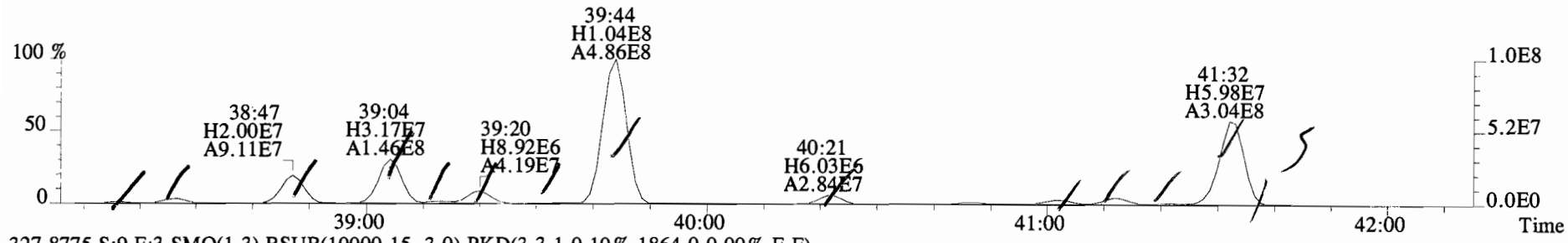
337.9207 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2220.0,0.00%,F,F)



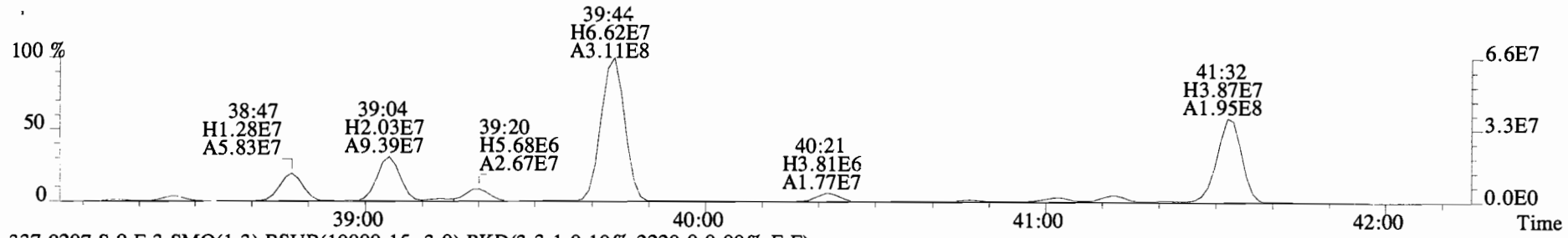
339.9177 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2280.0,0.00%,F,F)



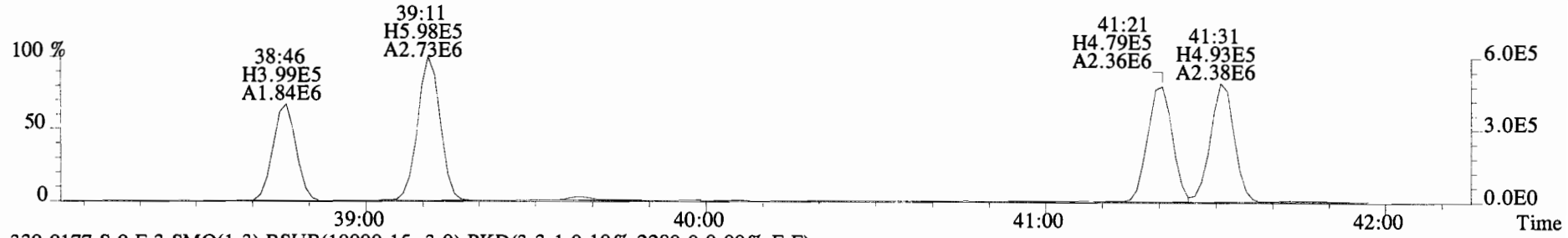
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
325.8804 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2172.0,0.00%,F,F)



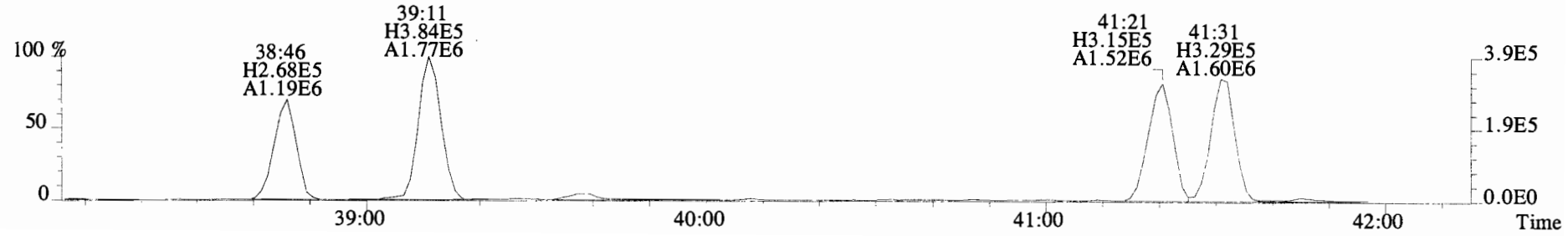
327.8775 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1864.0,0.00%,F,F)



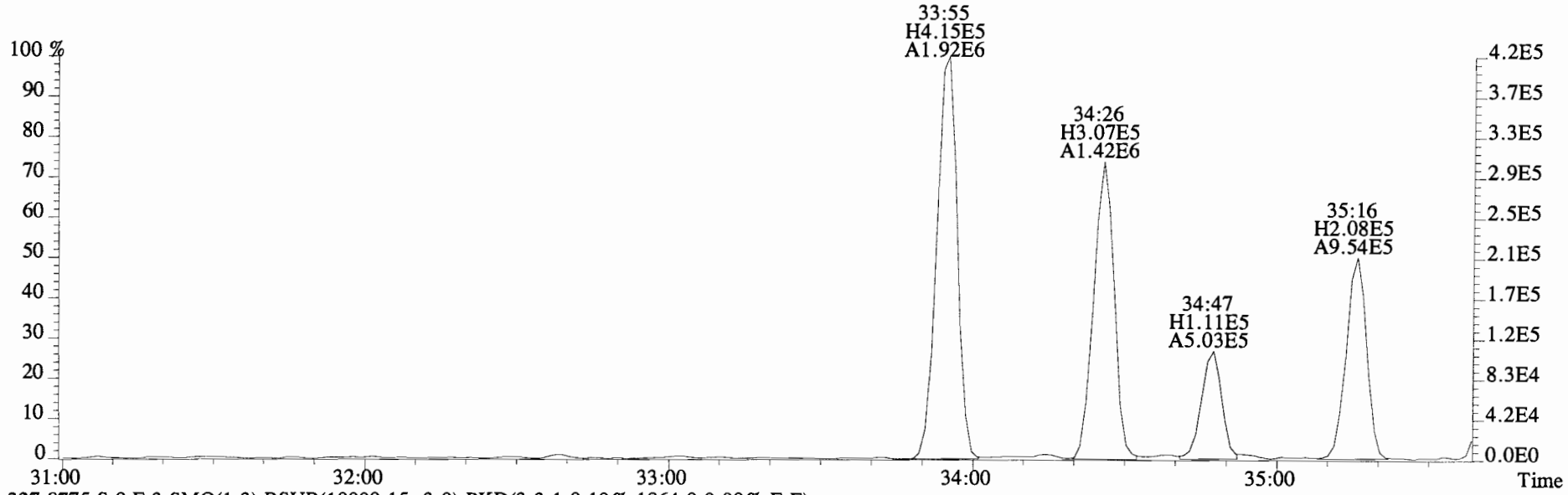
337.9207 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2220.0,0.00%,F,F)



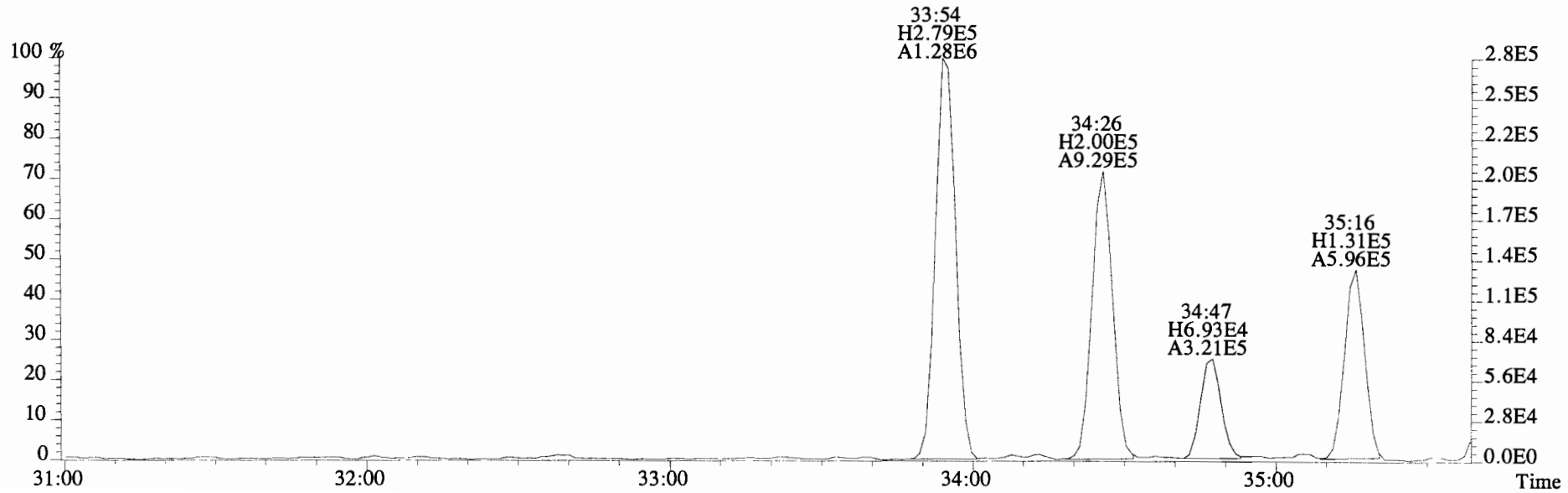
339.9177 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2280.0,0.00%,F,F)



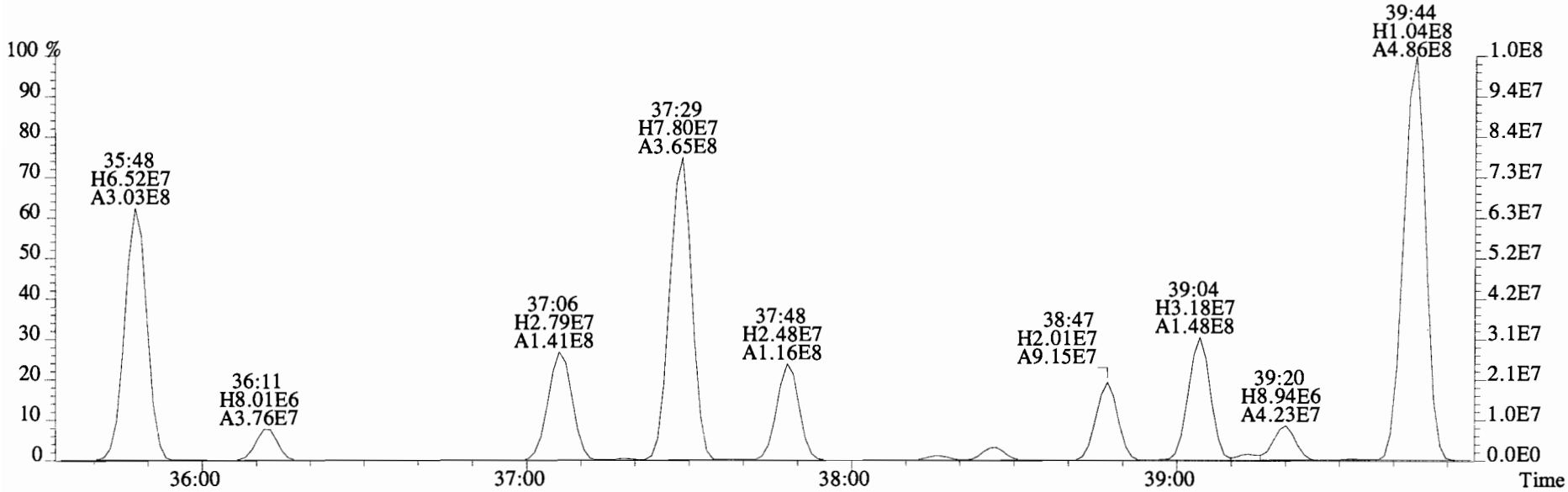
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
325.8804 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2172.0,0.00%,F,F)



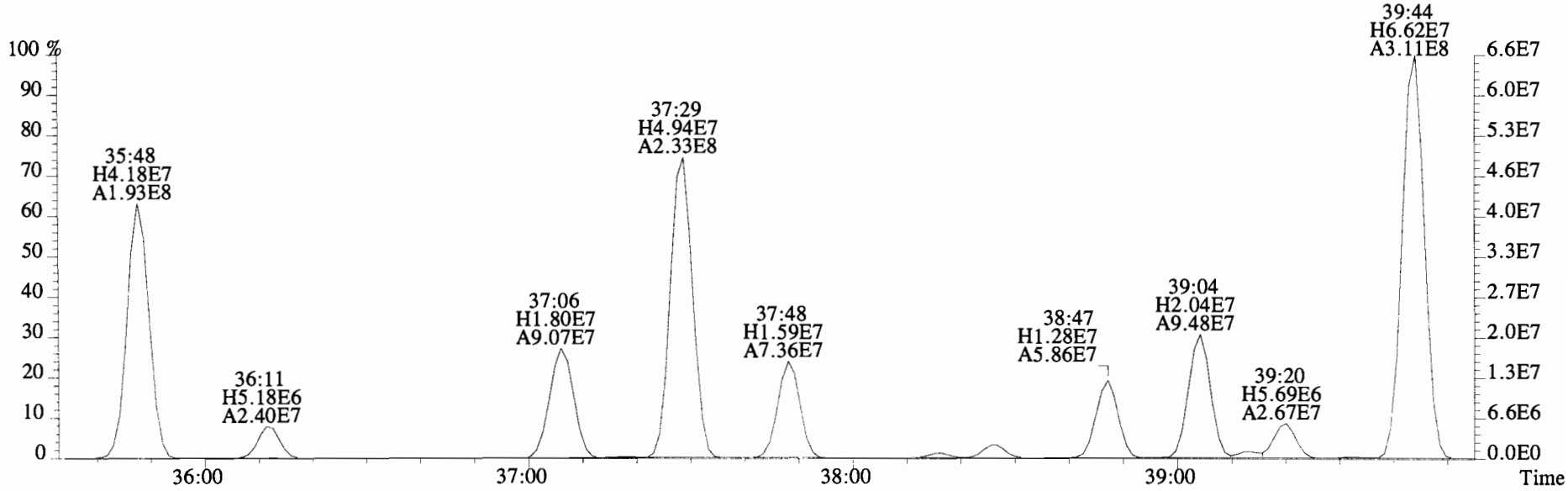
327.8775 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1864.0,0.00%,F,F)



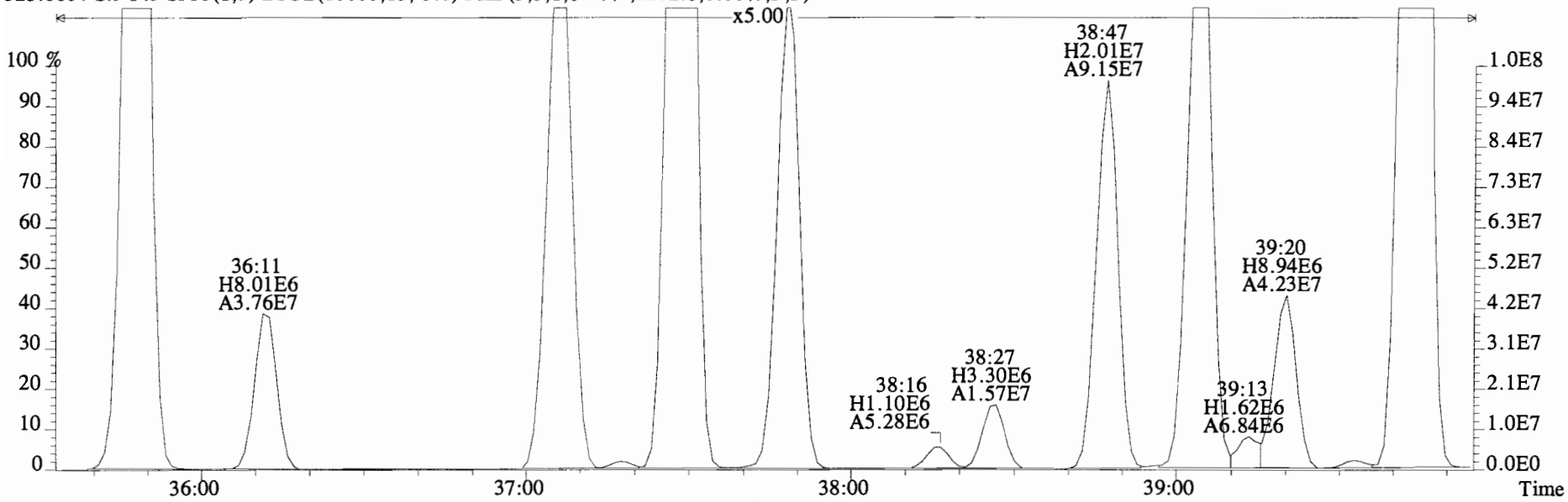
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
325.8804 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2172.0,0.00%,F,F)



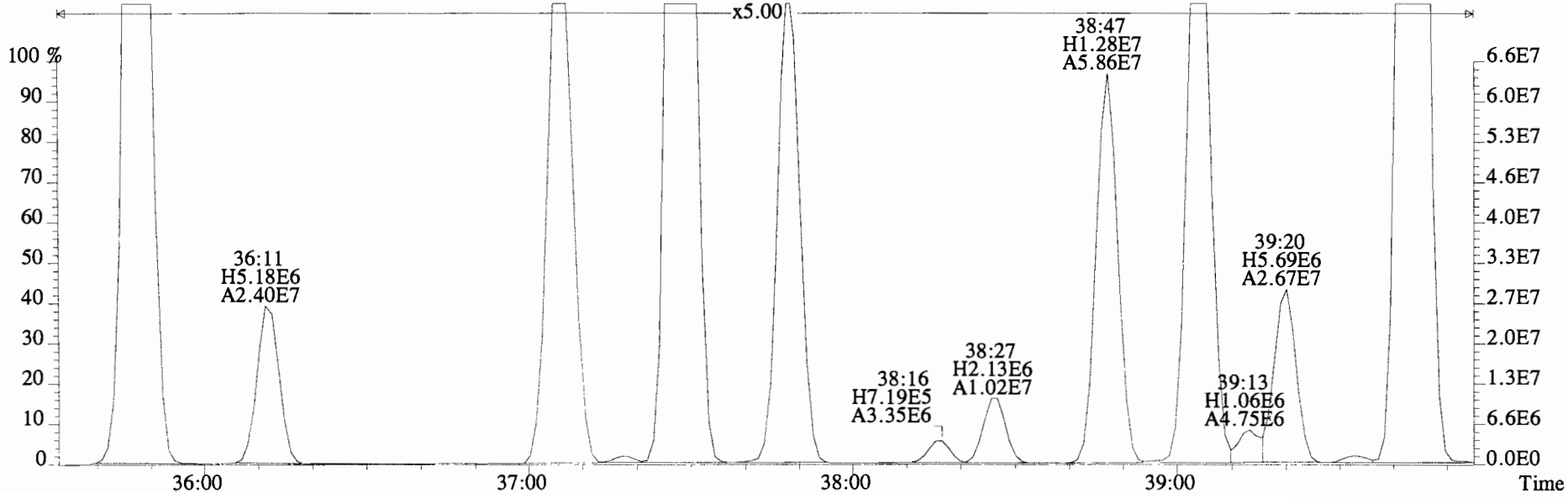
327.8775 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1864.0,0.00%,F,F)



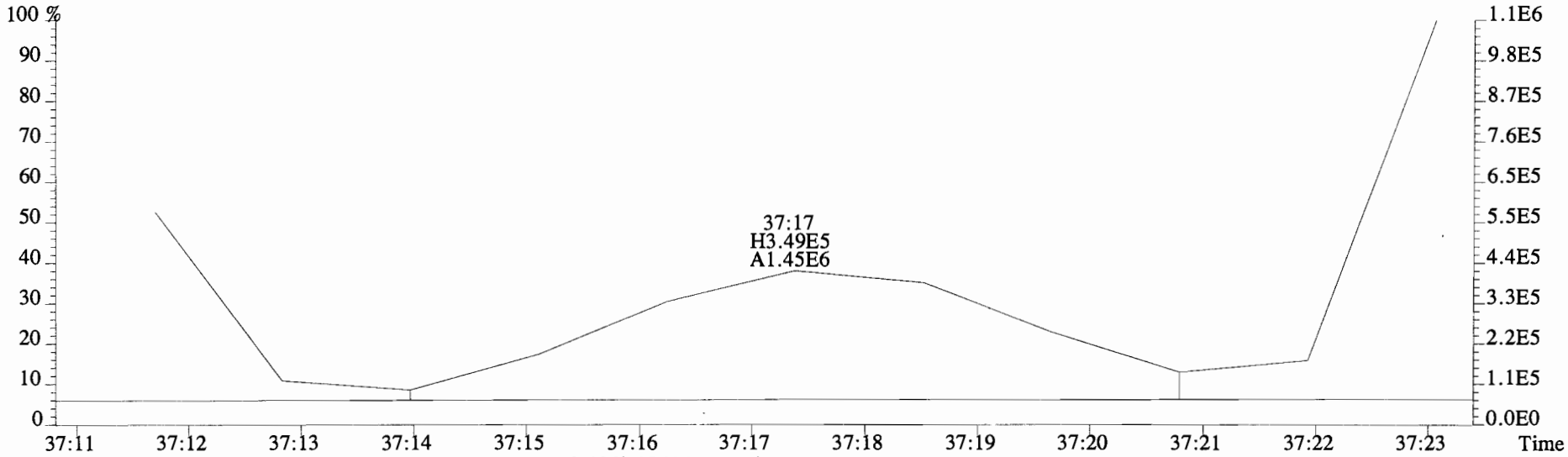
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
325.8804 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2172.0,0.00%,F,F)



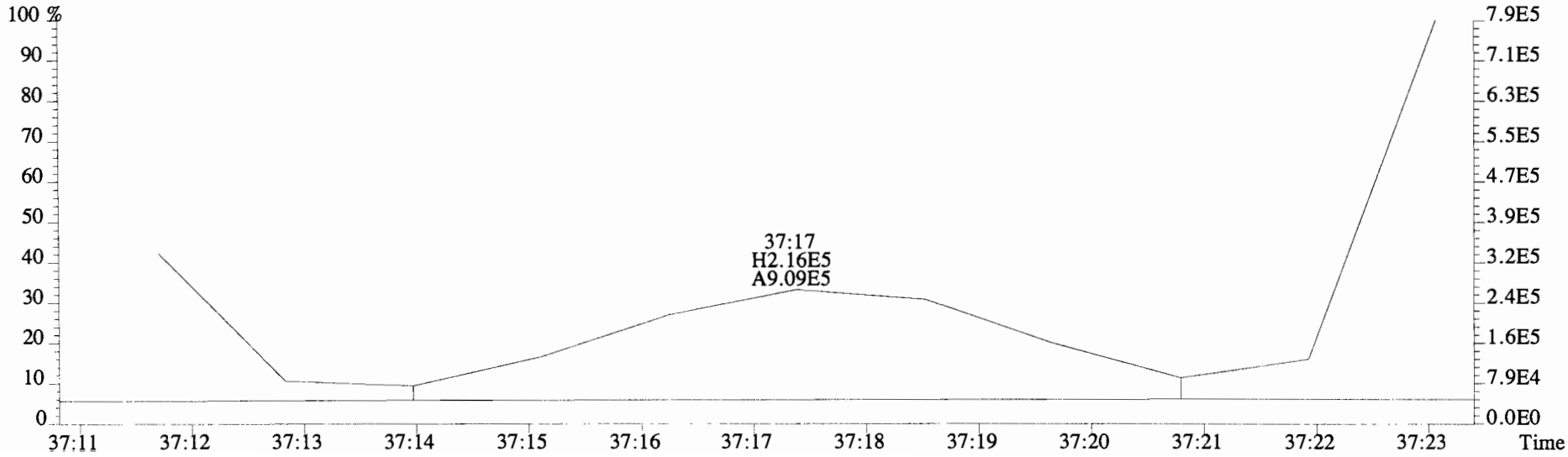
327.8775 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1864.0,0.00%,F,F)

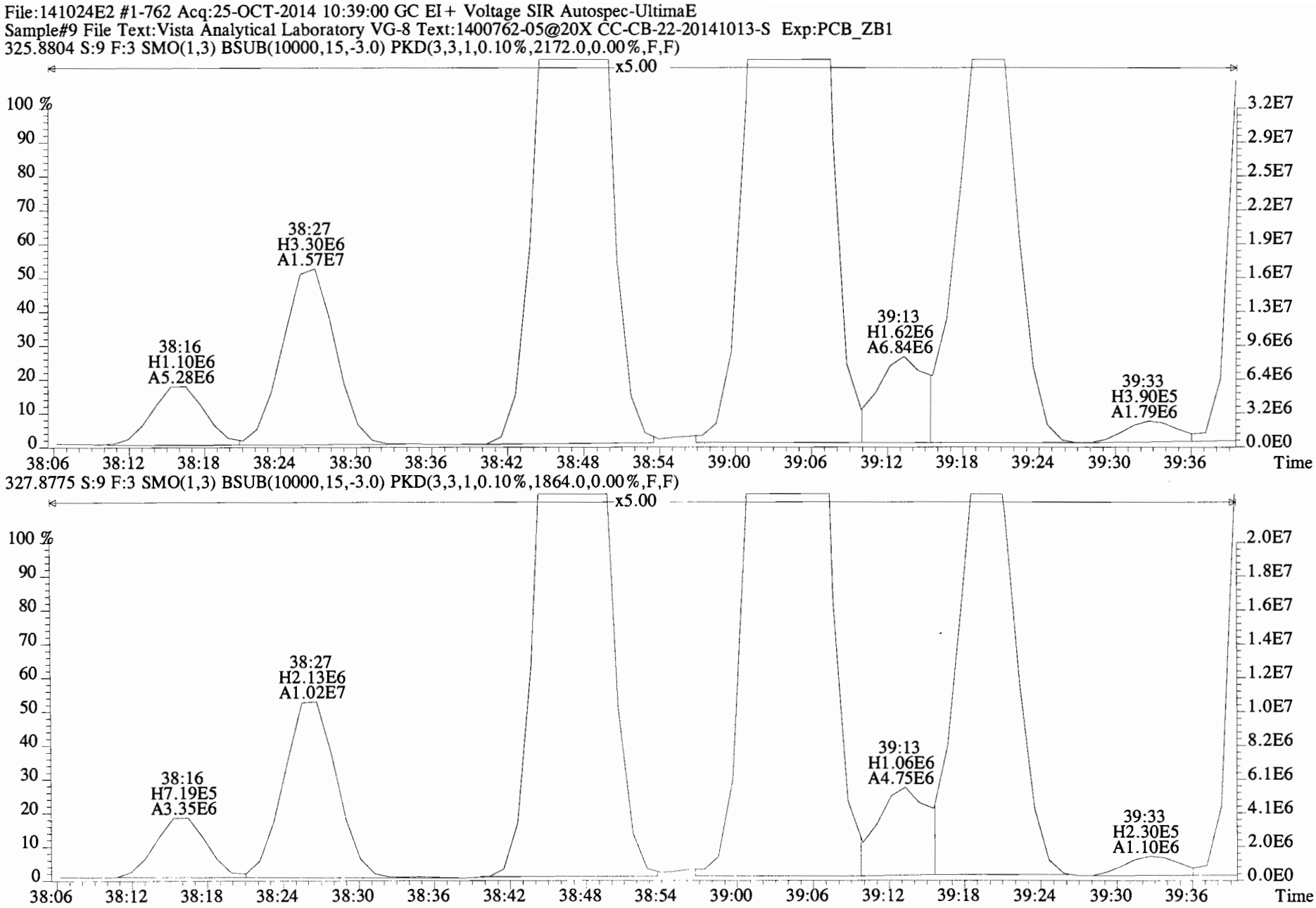


File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
325.8804 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2172.0,0.00%,F,F)

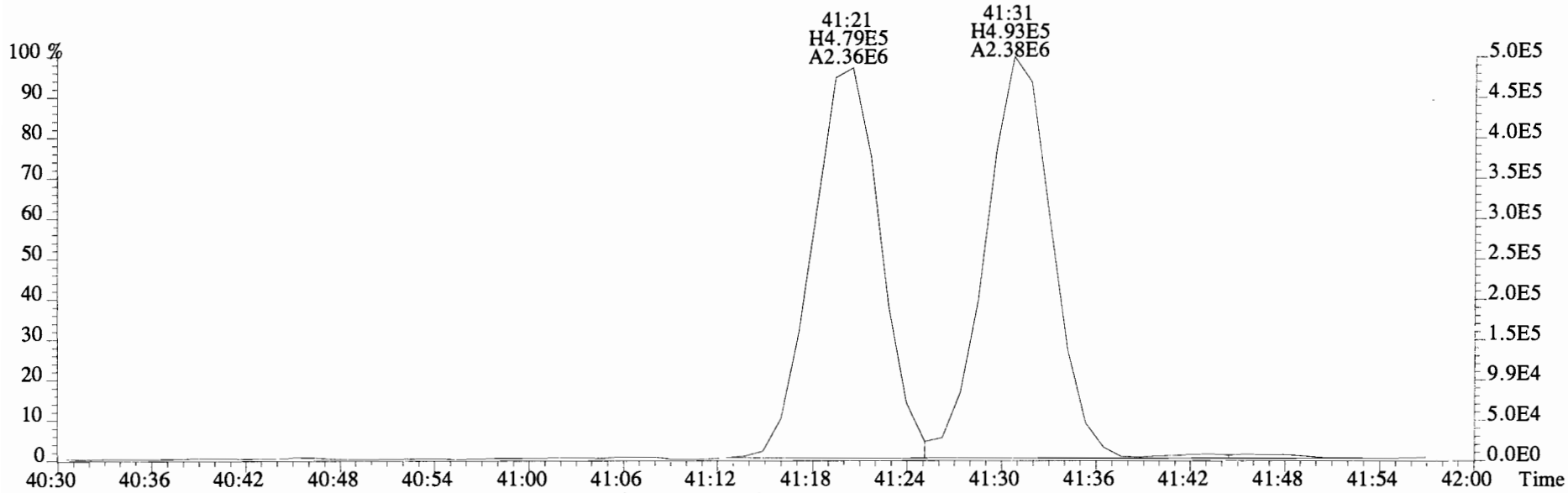


327.8775 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1864.0,0.00%,F,F)

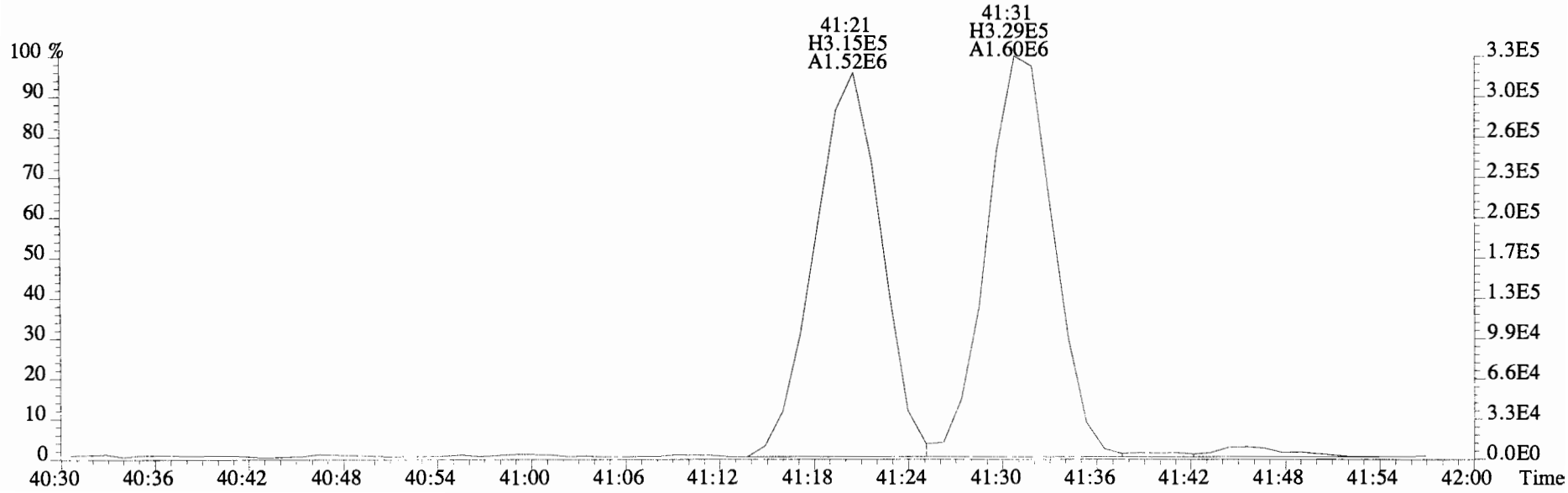



File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
325.8804 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2172.0,0.00%,F,F)
x5.00
38:16
H1.10E6
A5.28E6
38:27
H3.30E6
A1.57E7
39:13
H1.62E6
A6.84E6
39:33
H3.90E5
A1.79E6
Time
327.8775 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1864.0,0.00%,F,F)
x5.00
38:16
H7.19E5
A3.35E6
38:27
H2.13E6
A1.02E7
39:13
H1.06E6
A4.75E6
39:33
H2.30E5
A1.10E6
Time

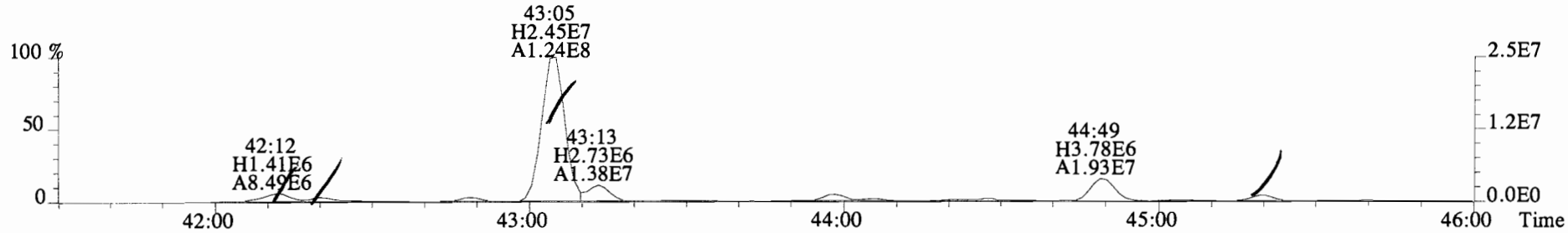
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
337.9207 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2220.0,0.00%,F,F)



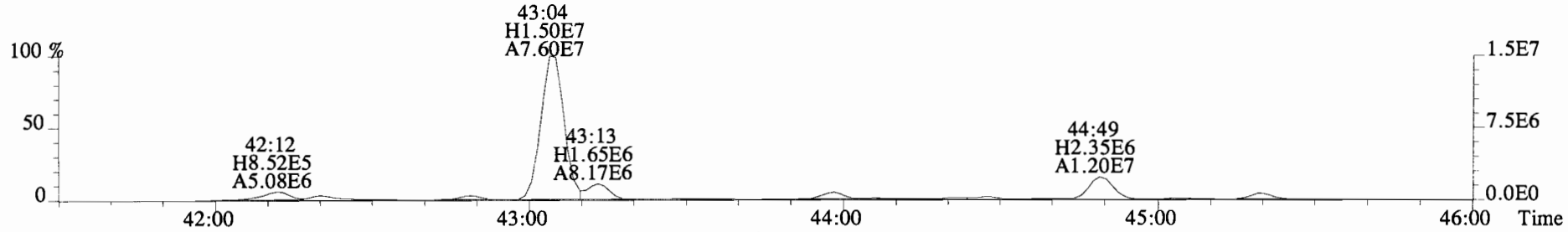
339.9177 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2280.0,0.00%,F,F)



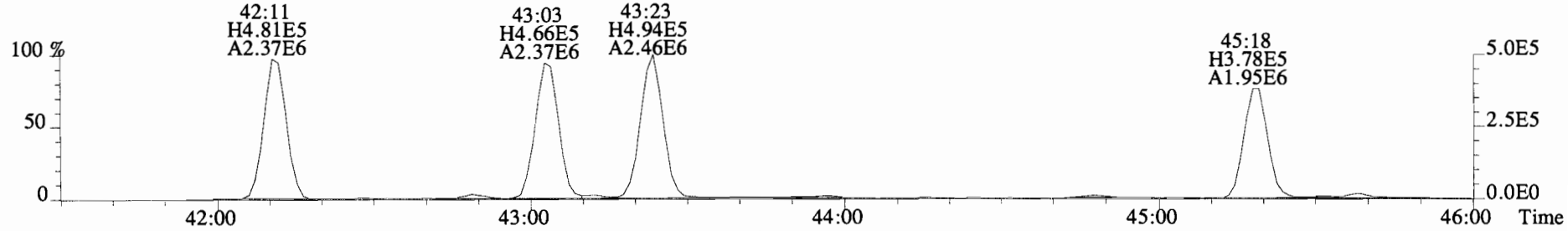
File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
325.8804 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41000.0,0.00%,F,F)



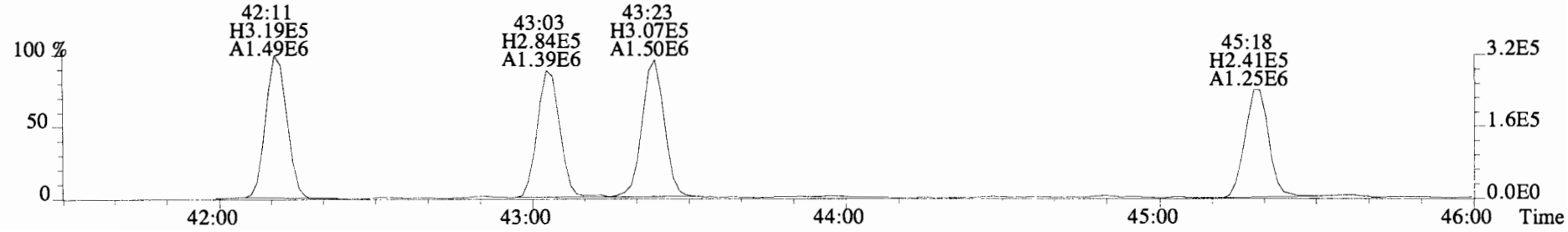
327.8775 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25916.0,0.00%,F,F)



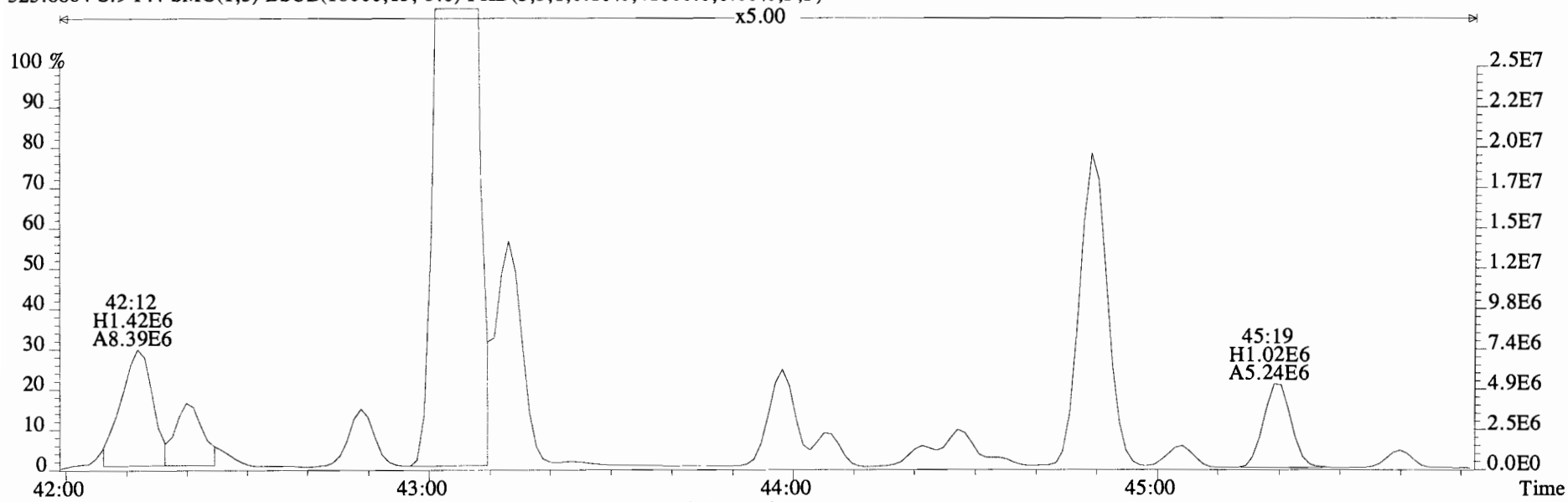
337.9207 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2956.0,0.00%,F,F)



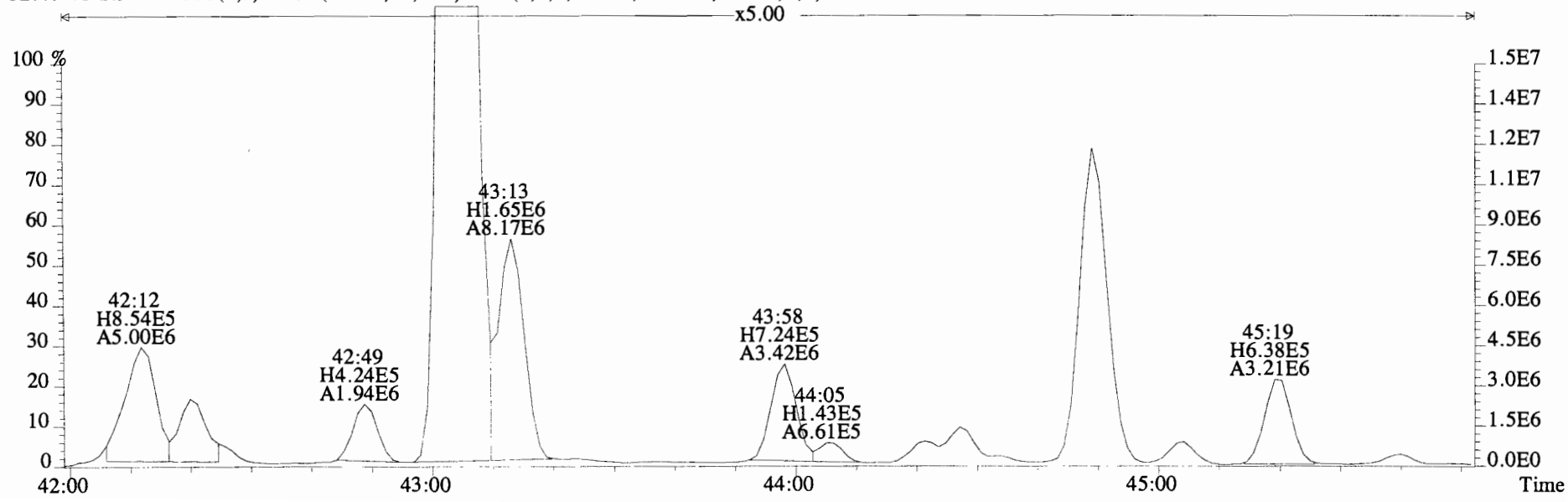
339.9177 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3332.0,0.00%,F,F)



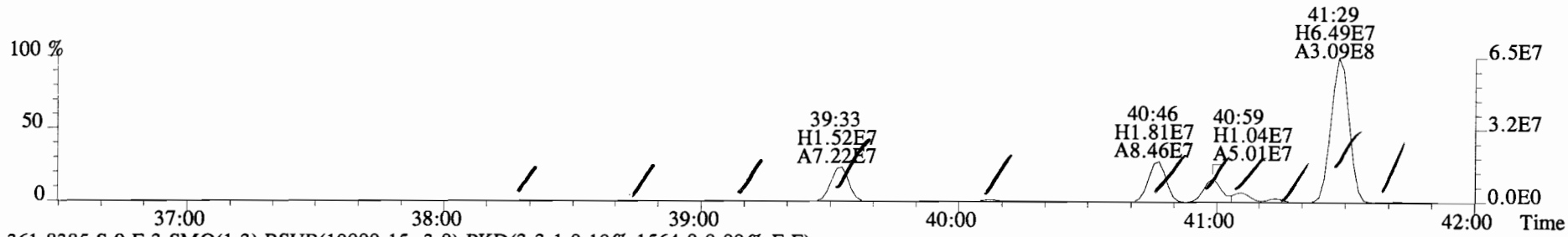
File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
325.8804 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41000.0,0.00%,F,F)



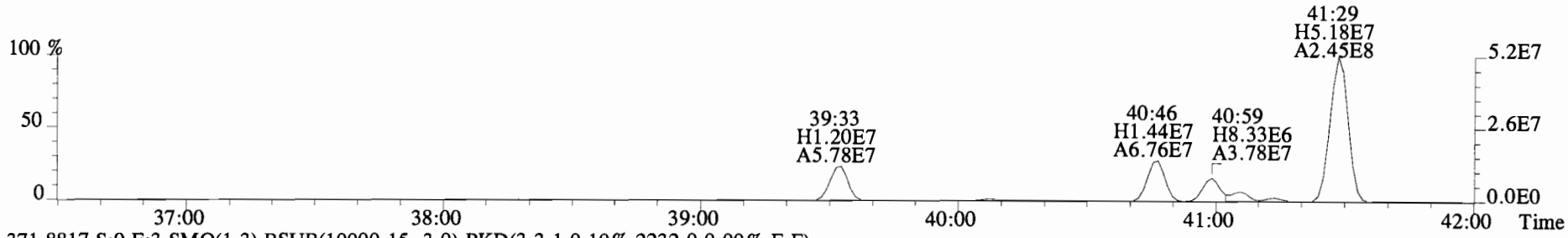
327.8775 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25916.0,0.00%,F,F)



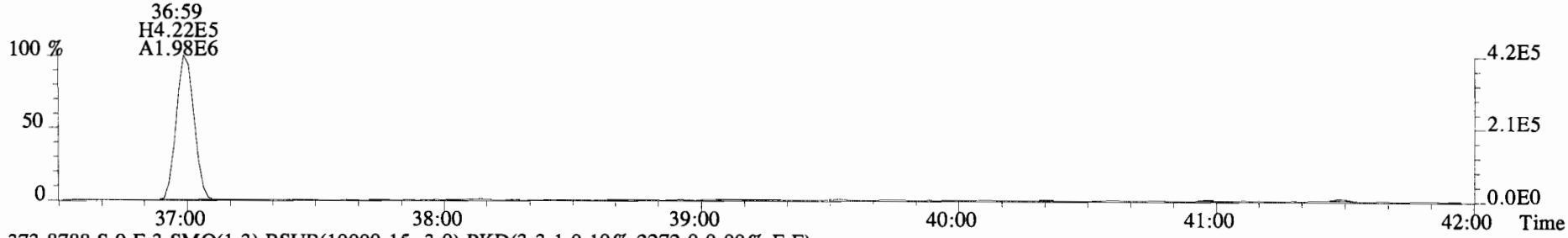
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
359.8415 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1592.0,0.00%,F,F)



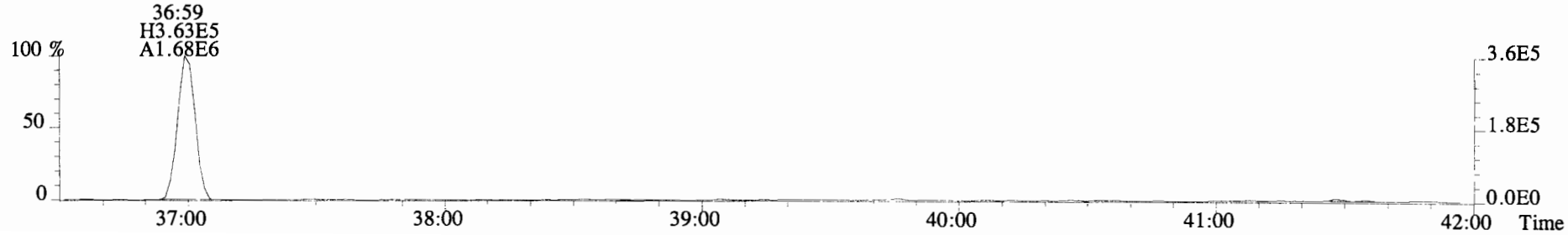
361.8385 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1564.0,0.00%,F,F)

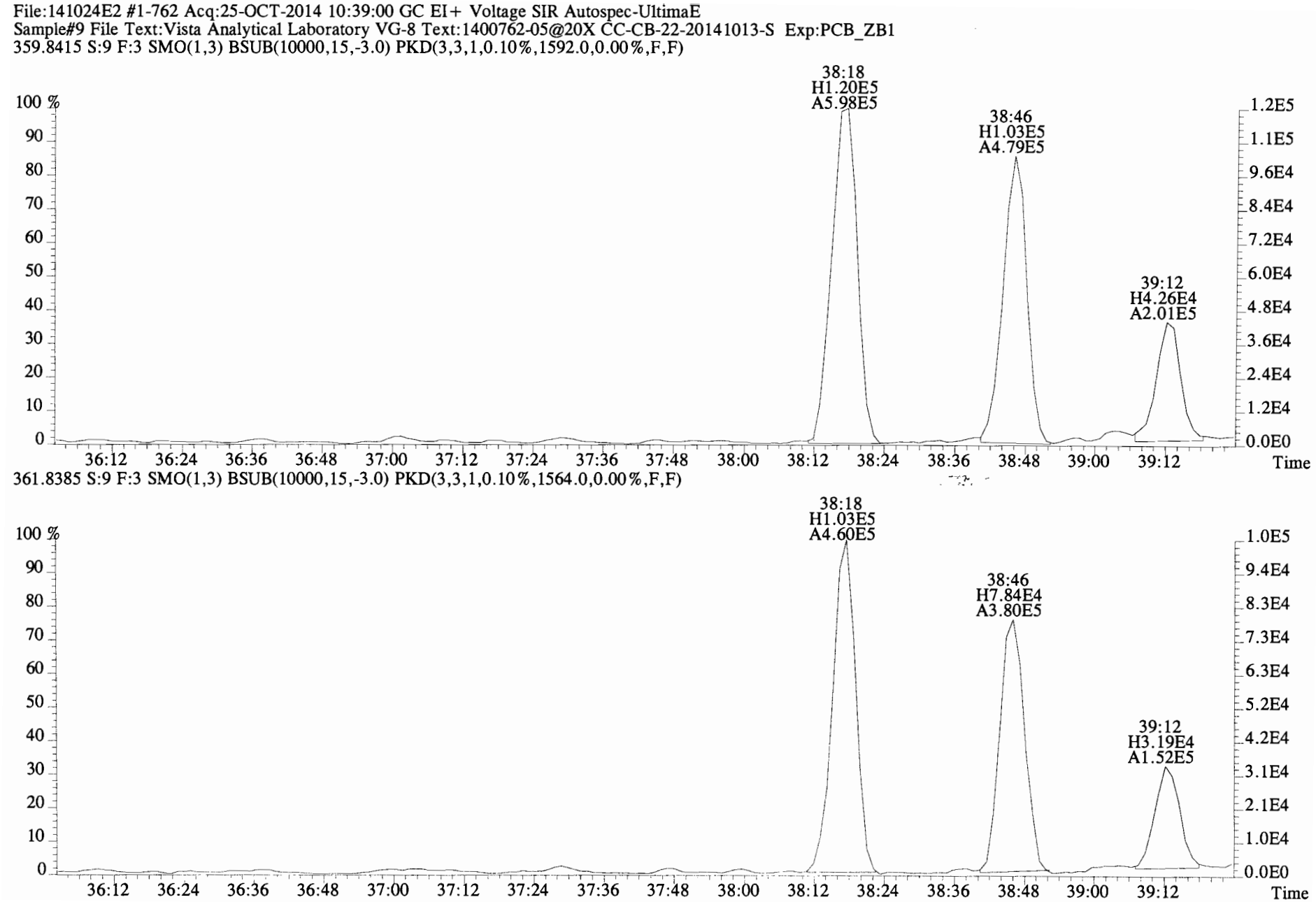


371.8817 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2232.0,0.00%,F,F)

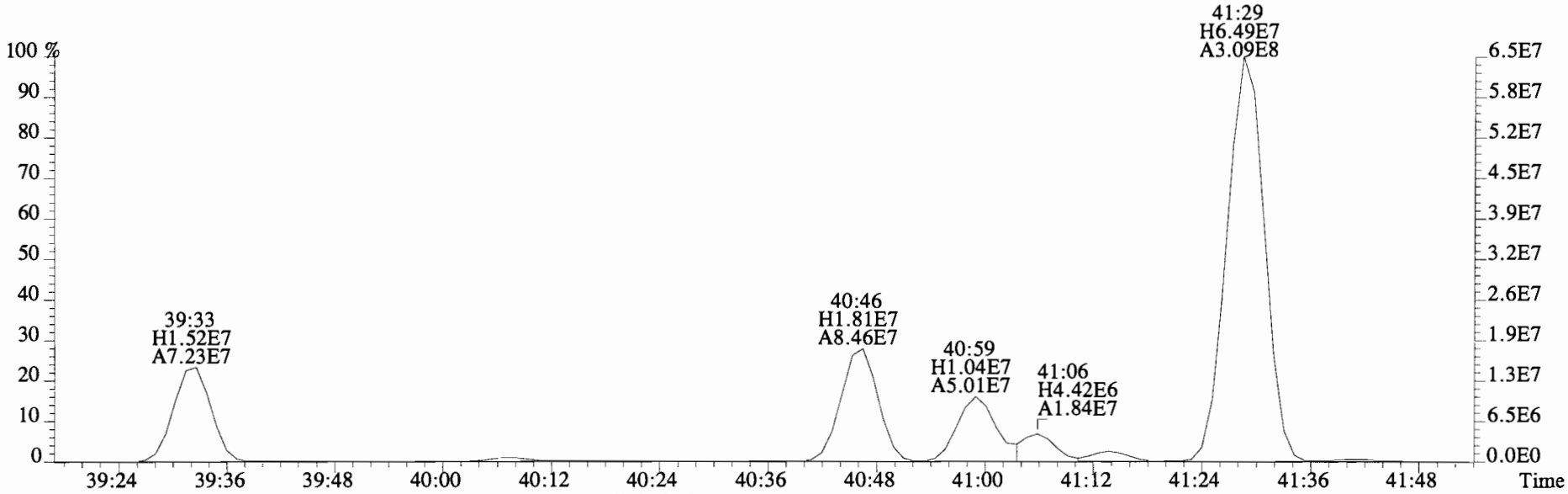


373.8788 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2272.0,0.00%,F,F)

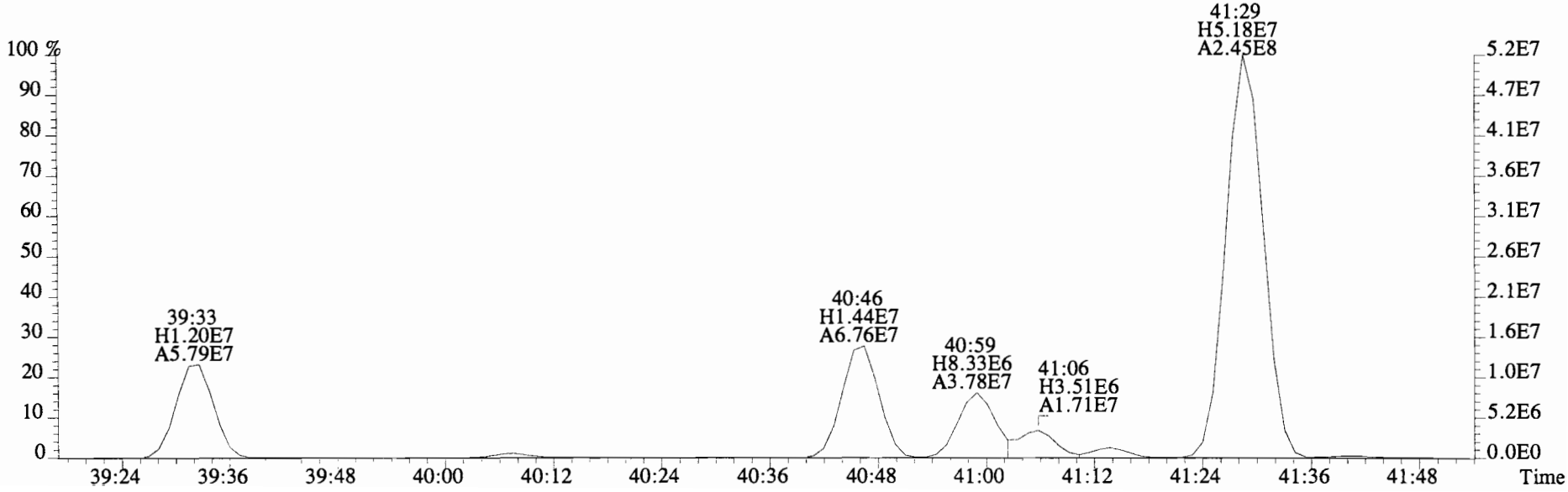



File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
359.8415 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1592.0,0.00%,F,F)
38:18
H1.20E5
A5.98E5
38:46
H1.03E5
A4.79E5
39:12
H4.26E4
A2.01E5
100 %
90
80
70
60
50
40
30
20
10
0
1.2E5
1.1E5
9.6E4
8.4E4
7.2E4
6.0E4
4.8E4
3.6E4
2.4E4
1.2E4
0.0E0
36:12
36:24
36:36
36:48
37:00
37:12
37:24
37:36
37:48
38:00
38:12
38:24
38:36
38:48
39:00
39:12
Time
361.8385 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1564.0,0.00%,F,F)
38:18
H1.03E5
A4.60E5
38:46
H7.84E4
A3.80E5
39:12
H3.19E4
A1.52E5
100 %
90
80
70
60
50
40
30
20
10
0
1.0E5
9.4E4
8.3E4
7.3E4
6.3E4
5.2E4
4.2E4
3.1E4
2.1E4
1.0E4
0.0E0
36:12
36:24
36:36
36:48
37:00
37:12
37:24
37:36
37:48
38:00
38:12
38:24
38:36
38:48
39:00
39:12
Time

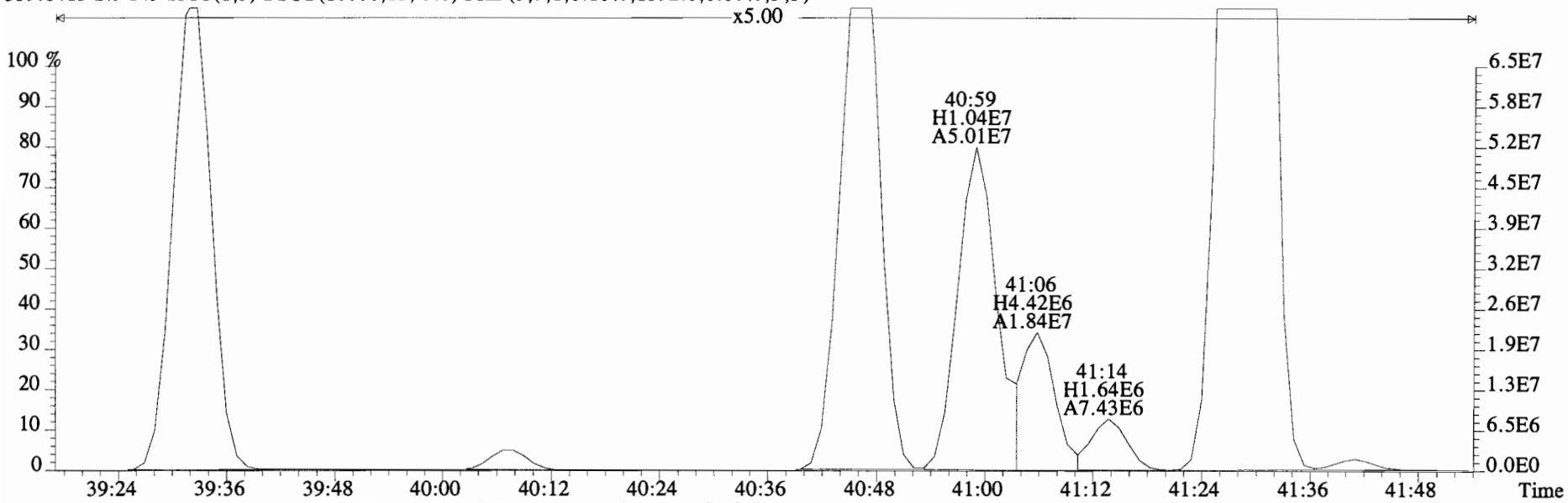
File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
359.8415 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1592.0,0.00%,F,F)



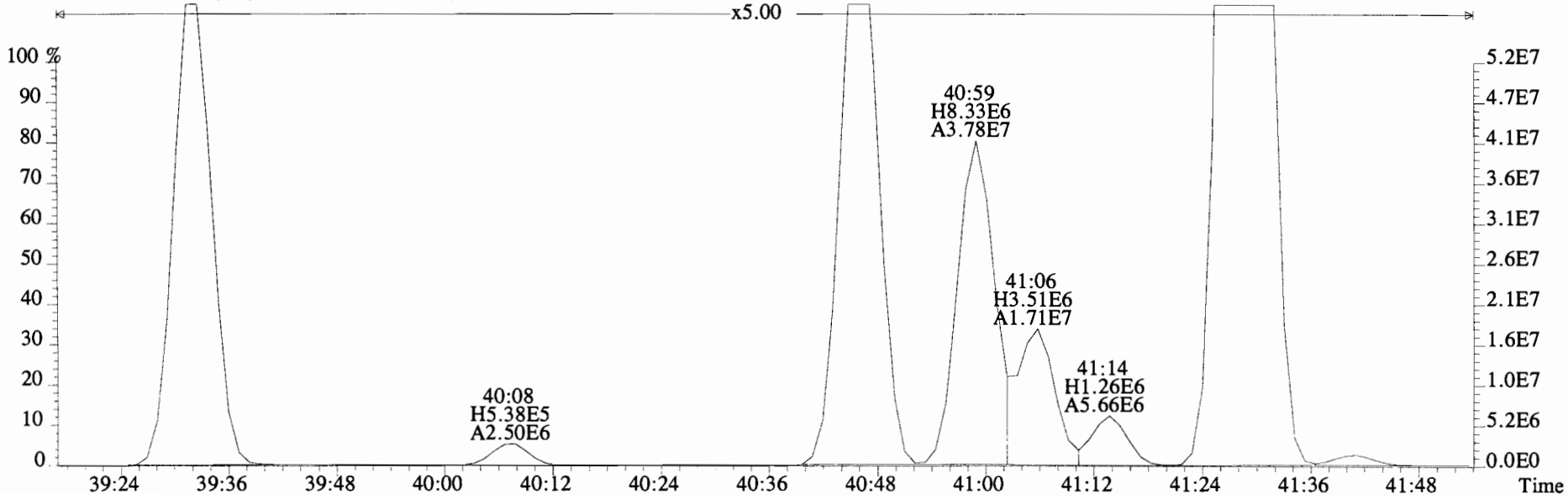
361.8385 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1564.0,0.00%,F,F)

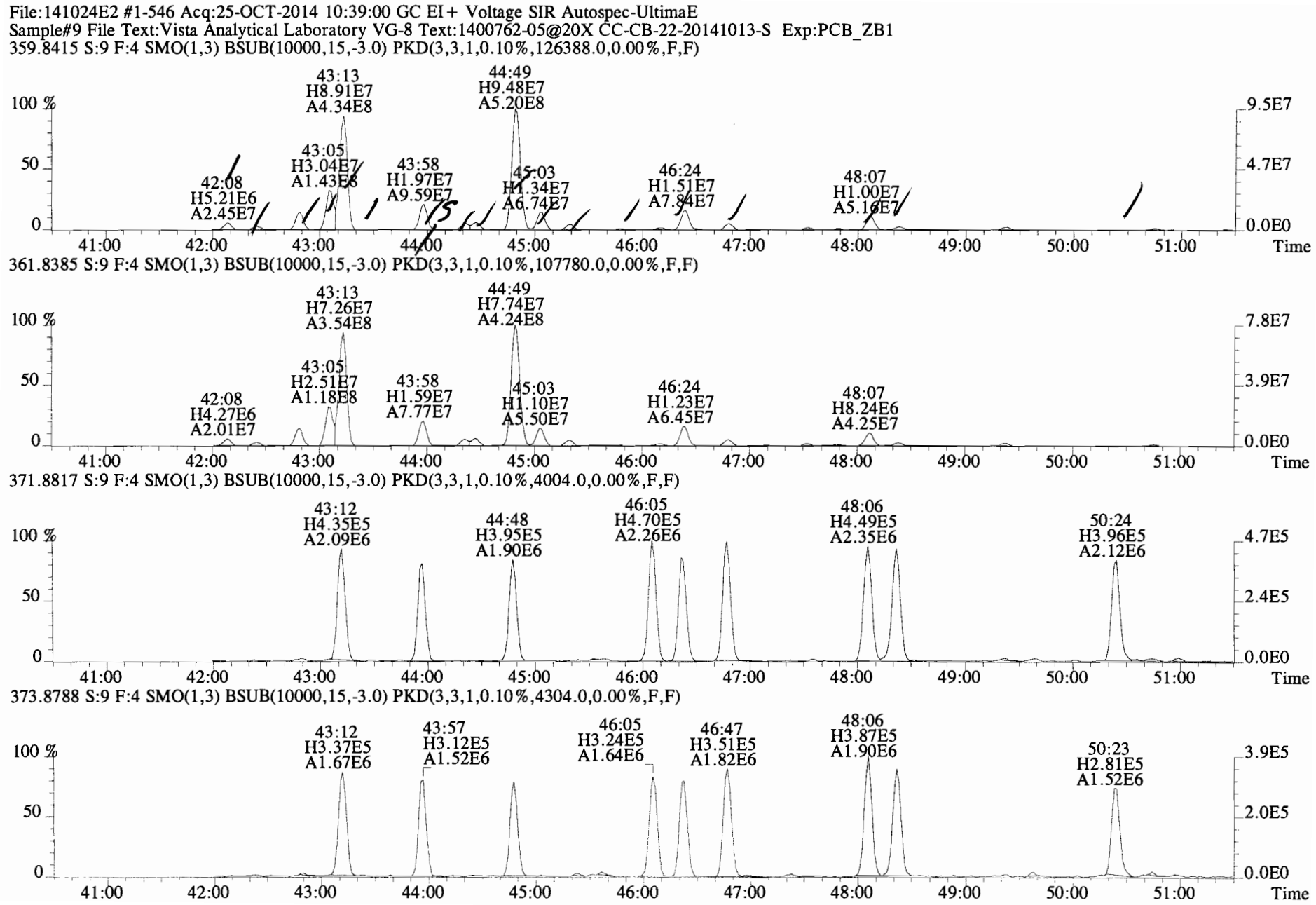


File:141024E2 #1-762 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
359.8415 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1592.0,0.00%,F,F)

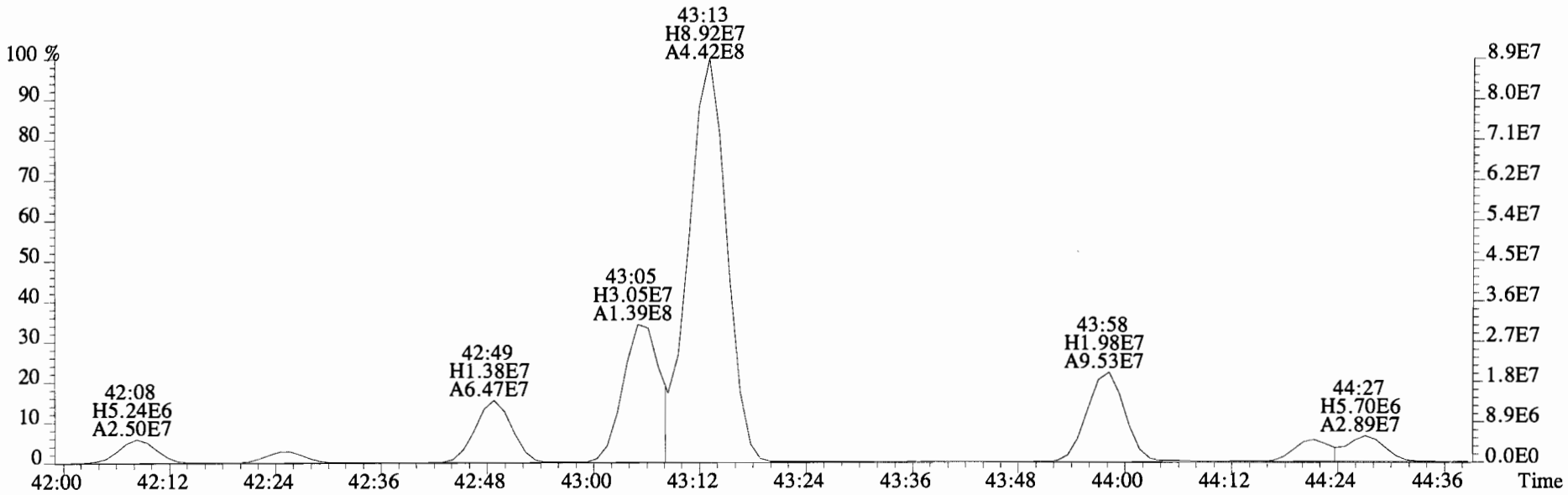


361.8385 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1564.0,0.00%,F,F)

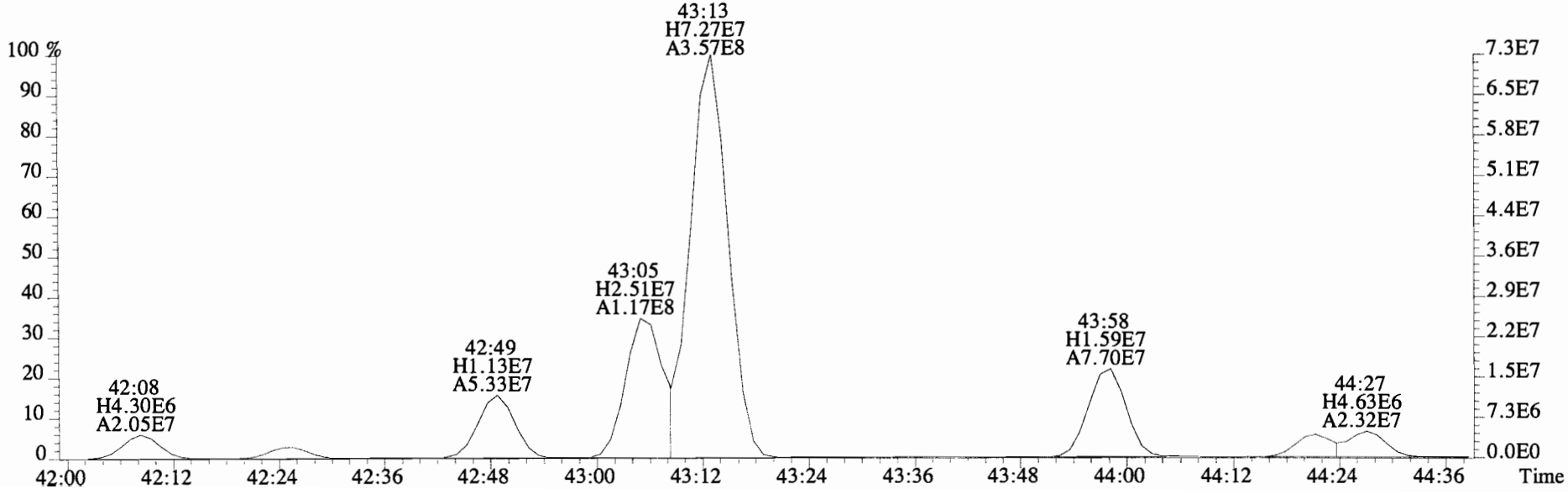



File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
359.8415 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,126388.0,0.00%,F,F)
43:13 H8.91E7 A4.34E8
44:49 H9.48E7 A5.20E8
43:05 H3.04E7 A1.43E8
43:58 H1.97E7 A9.59E7
45:03 H1.34E7 A6.74E7
46:24 H1.51E7 A7.84E7
48:07 H1.00E7 A5.16E7
42:08 H5.21E6 A2.45E7
361.8385 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,107780.0,0.00%,F,F)
43:13 H7.26E7 A3.54E8
44:49 H7.74E7 A4.24E8
43:05 H2.51E7 A1.18E8
43:58 H1.59E7 A7.77E7
45:03 H1.10E7 A5.50E7
46:24 H1.23E7 A6.45E7
48:07 H8.24E6 A4.25E7
42:08 H4.27E6 A2.01E7
371.8817 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4004.0,0.00%,F,F)
43:12 H4.35E5 A2.09E6
44:48 H3.95E5 A1.90E6
46:05 H4.70E5 A2.26E6
48:06 H4.49E5 A2.35E6
50:24 H3.96E5 A2.12E6
373.8788 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4304.0,0.00%,F,F)
43:12 H3.37E5 A1.67E6
43:57 H3.12E5 A1.52E6
46:05 H3.24E5 A1.64E6
46:47 H3.51E5 A1.82E6
48:06 H3.87E5 A1.90E6
50:23 H2.81E5 A1.52E6
100 %
50
0
9.5E7
4.7E7
0.0E0
7.8E7
3.9E7
4.7E5
2.4E5
3.9E5
2.0E5
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
51:00
Time

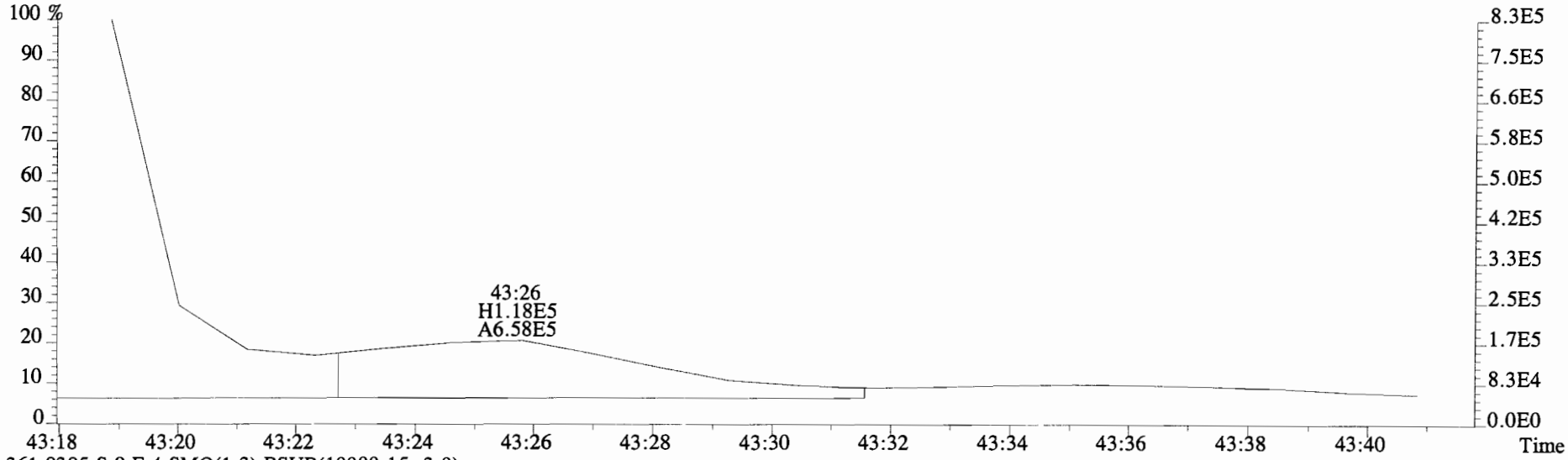
File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
359.8415 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0)



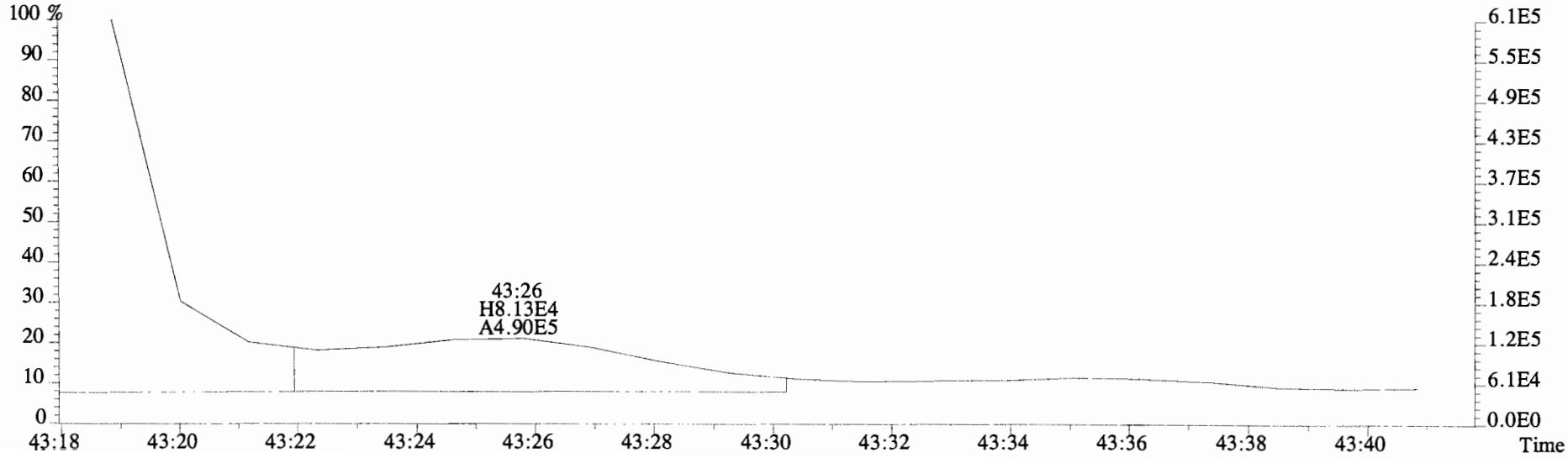
361.8385 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0)



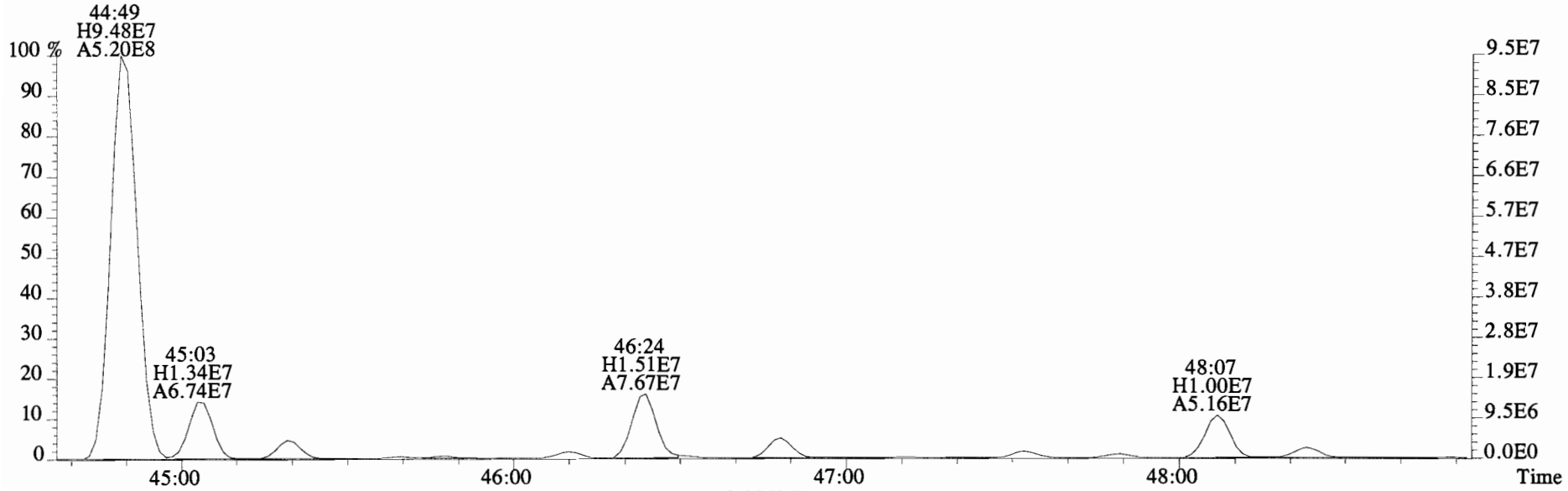
File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
359.8415 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0)



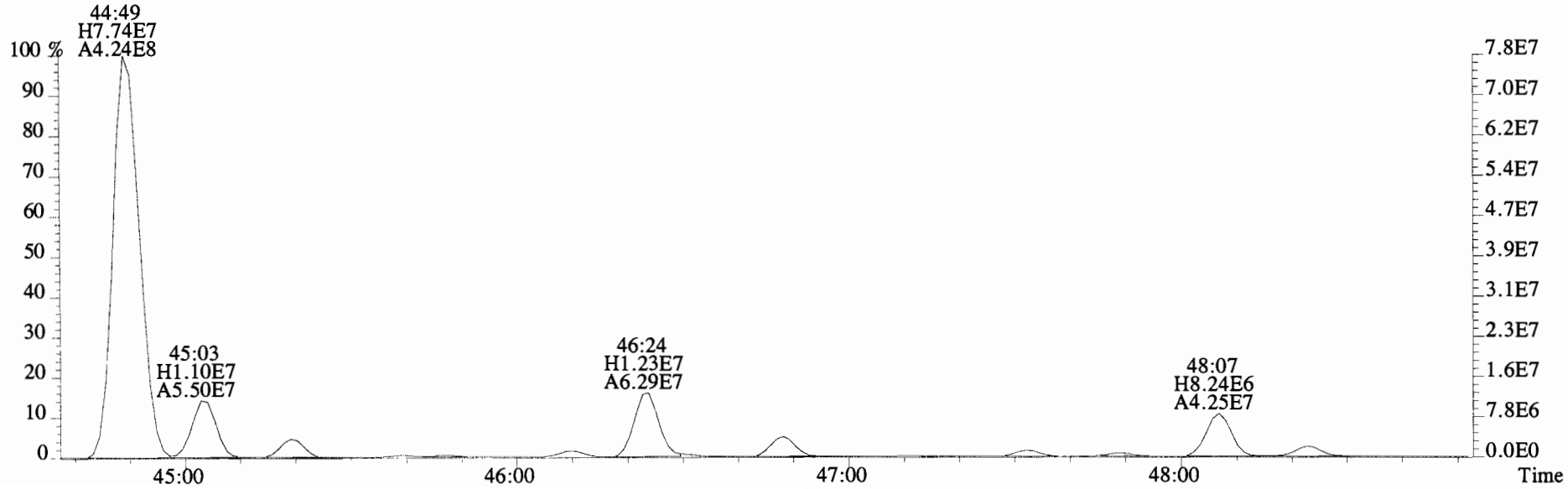
361.8385 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0)



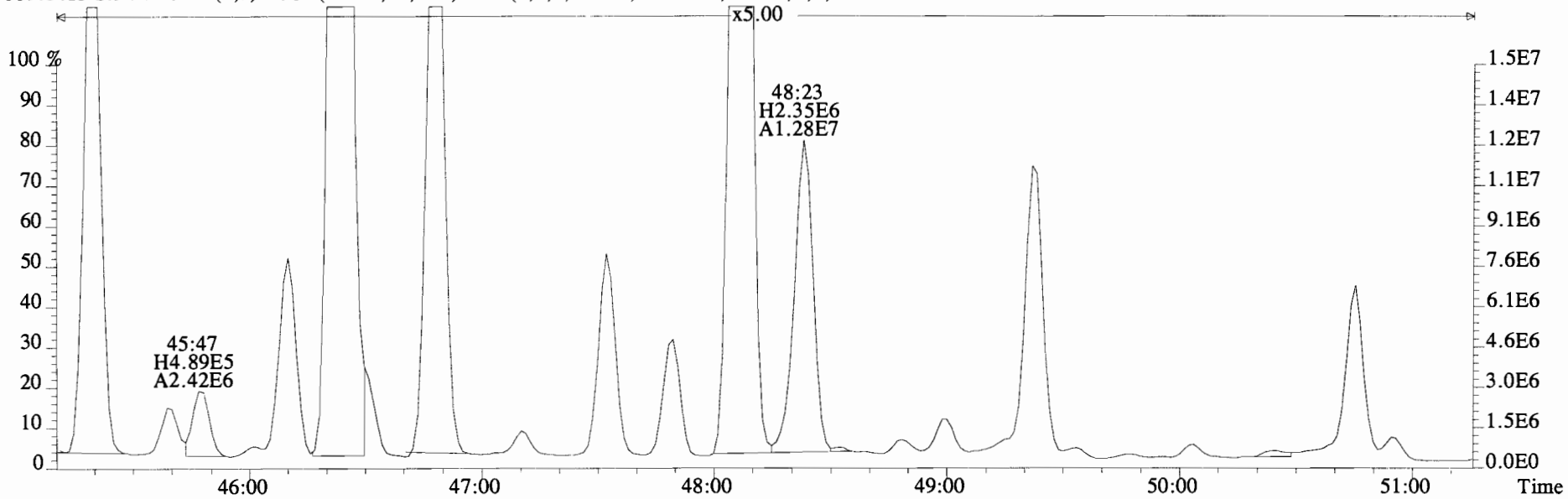
File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
359.8415 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,126388.0,0.00%,F,F)



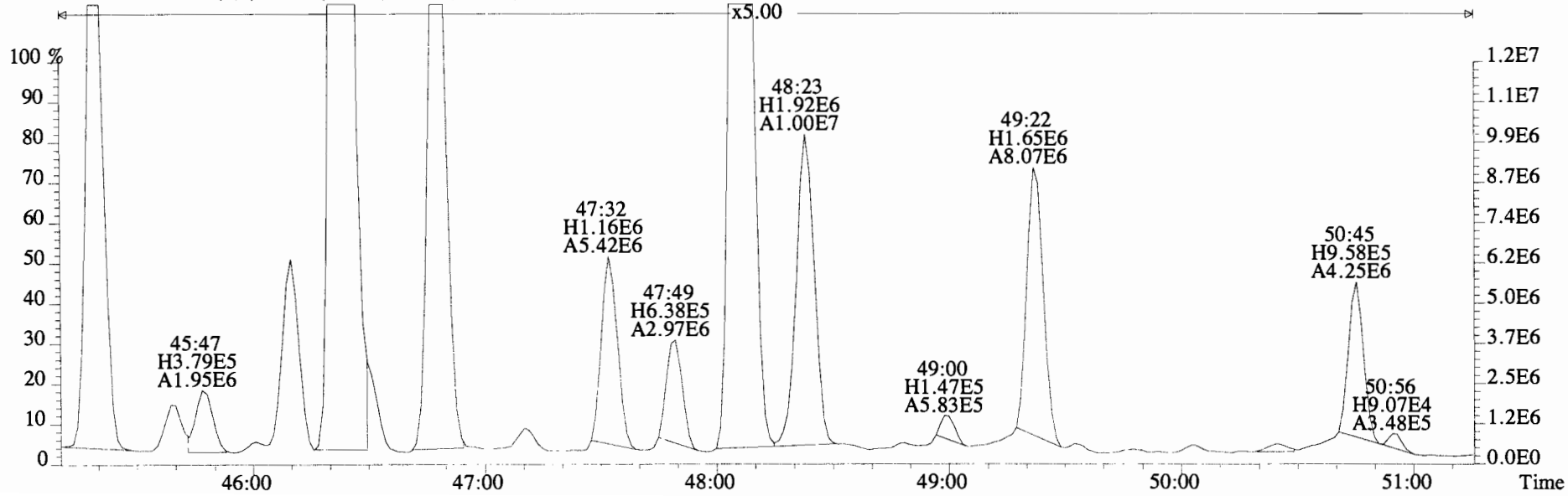
361.8385 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,107780.0,0.00%,F,F)



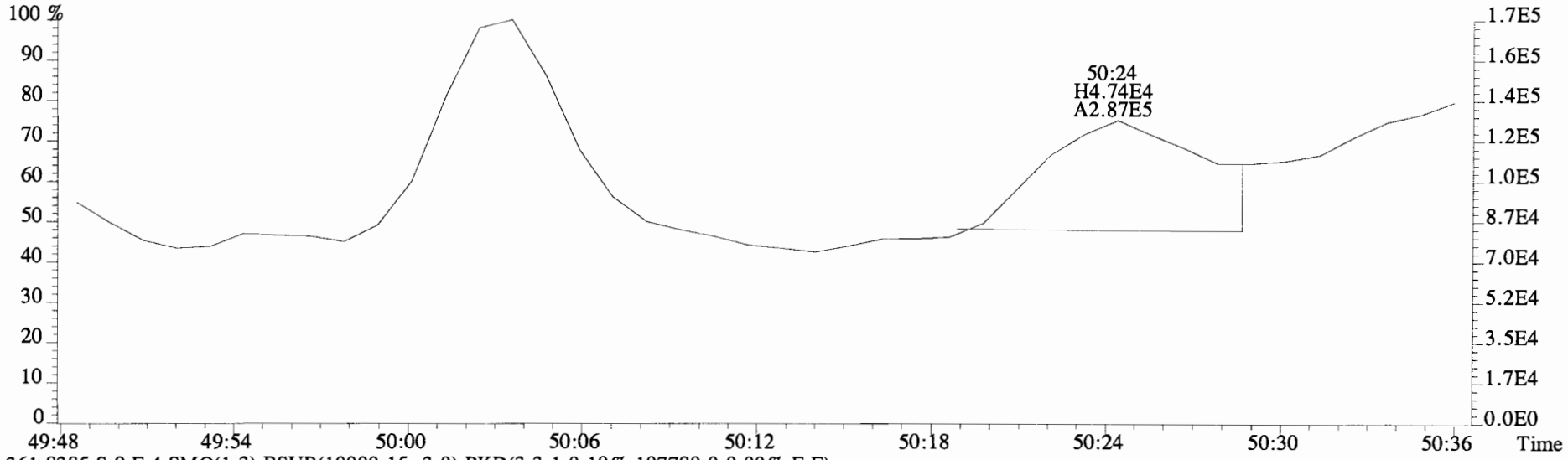
File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
359.8415 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,126388.0,0.00%,F,F)



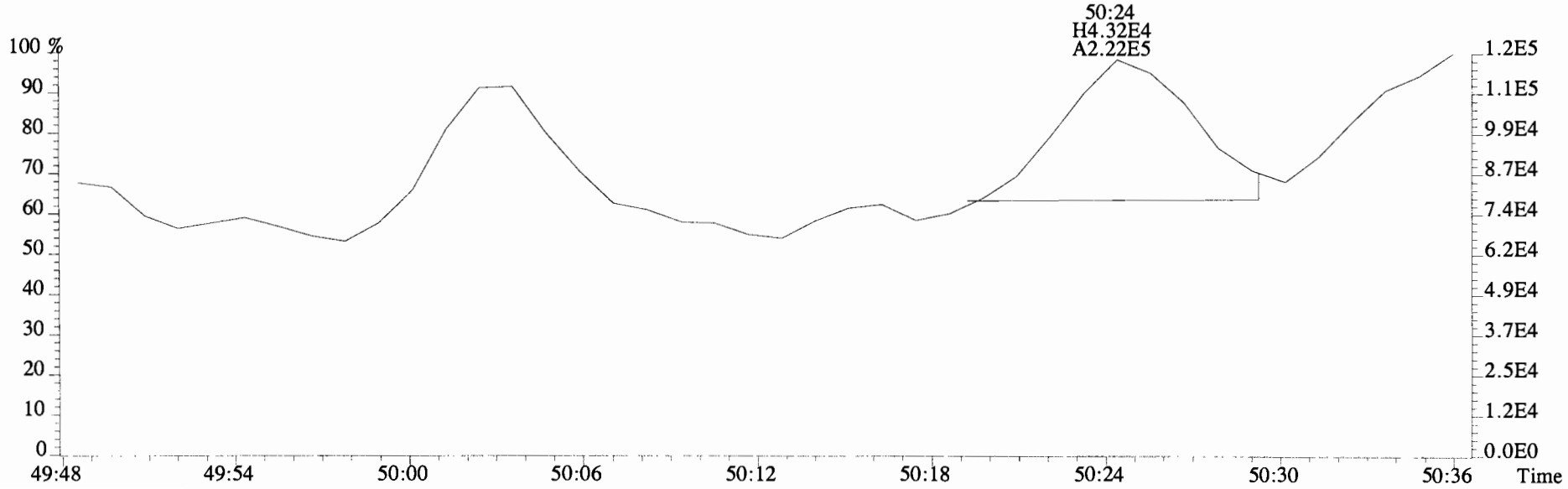
361.8385 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,107780.0,0.00%,F,F)



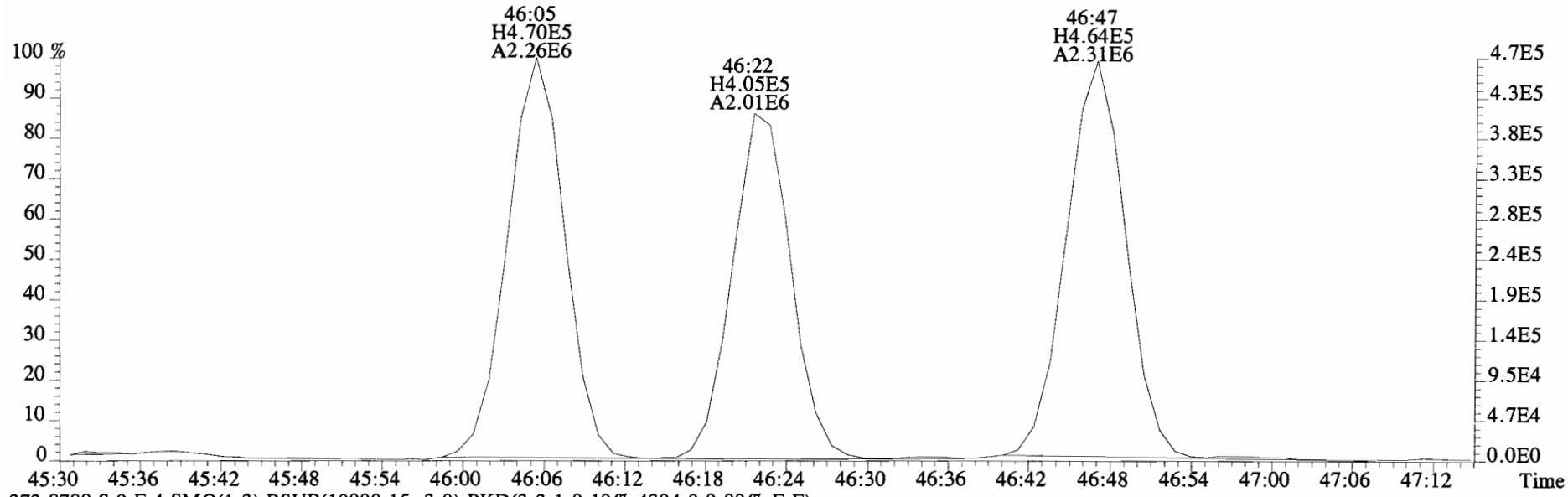
File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
359.8415 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,126388.0,0.00%,F,F)



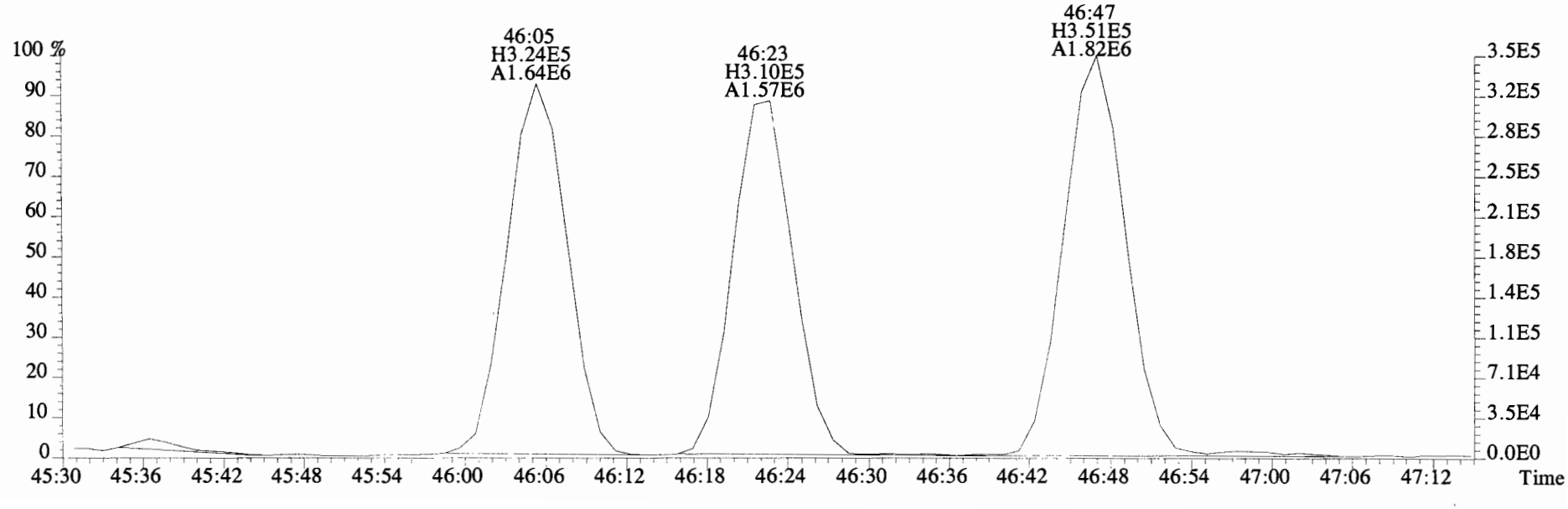
361.8385 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,107780.0,0.00%,F,F)



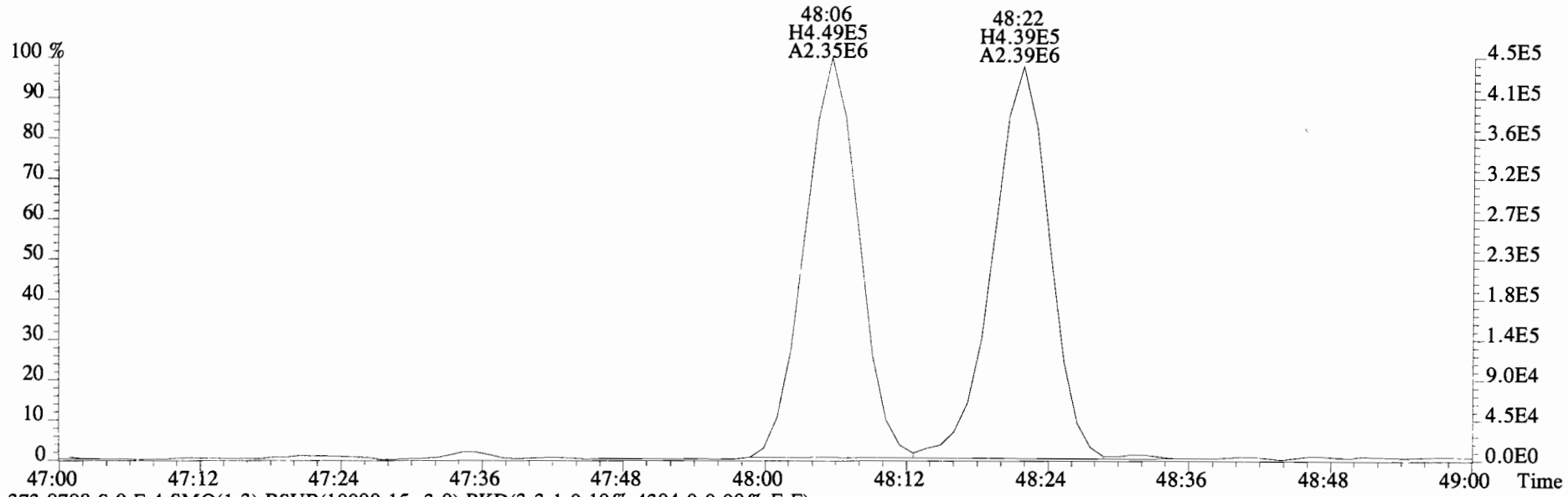
File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
371.8817 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4004.0,0.00%,F,F)



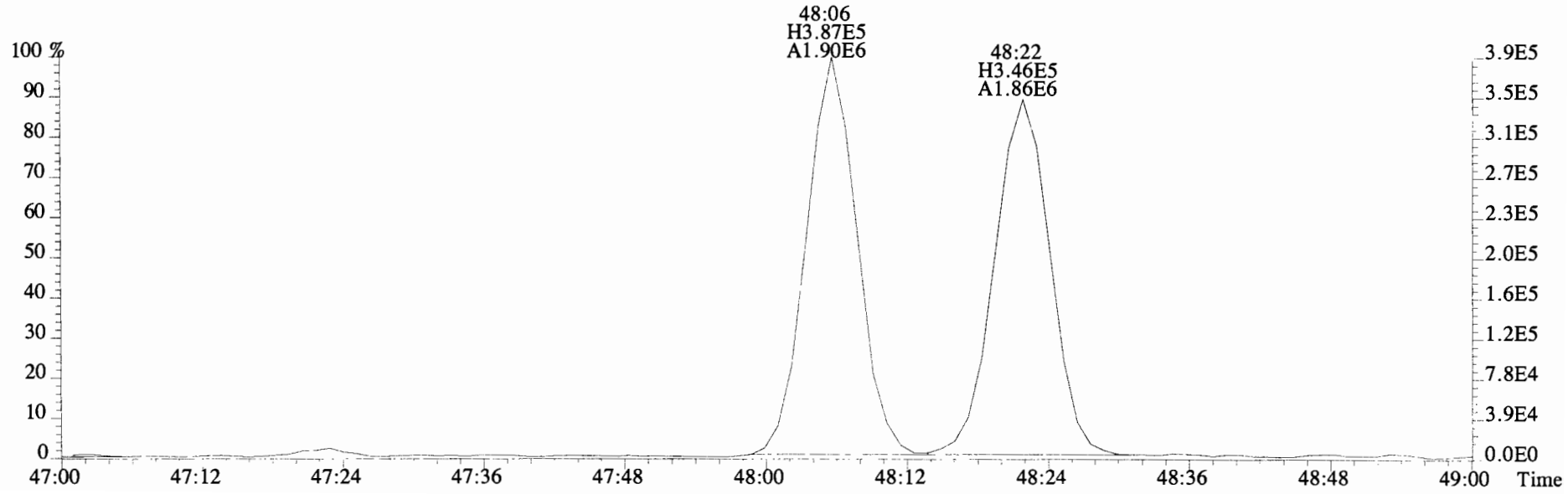
373.8788 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4304.0,0.00%,F,F)

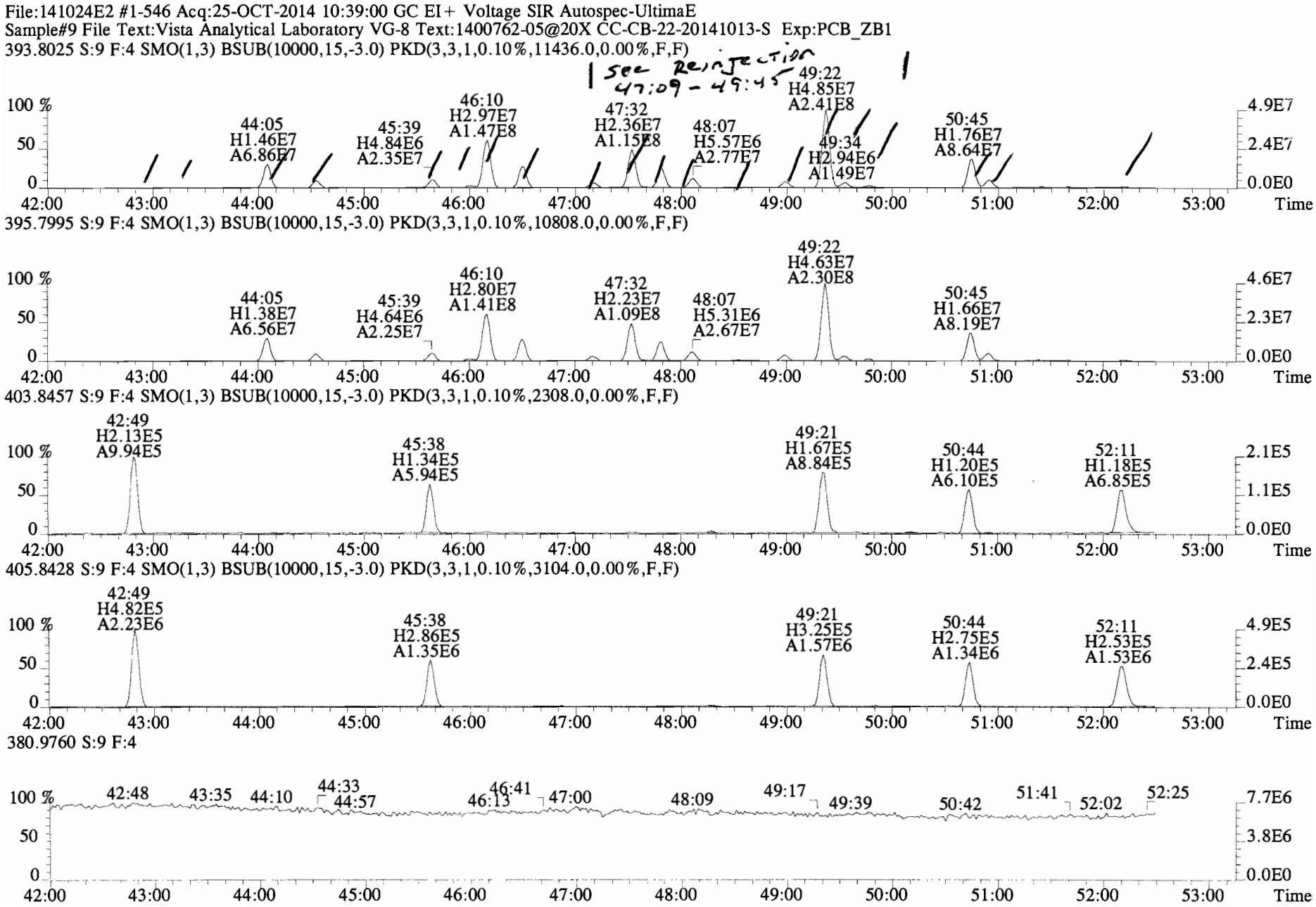


File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
371.8817 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4004.0,0.00%,F,F)

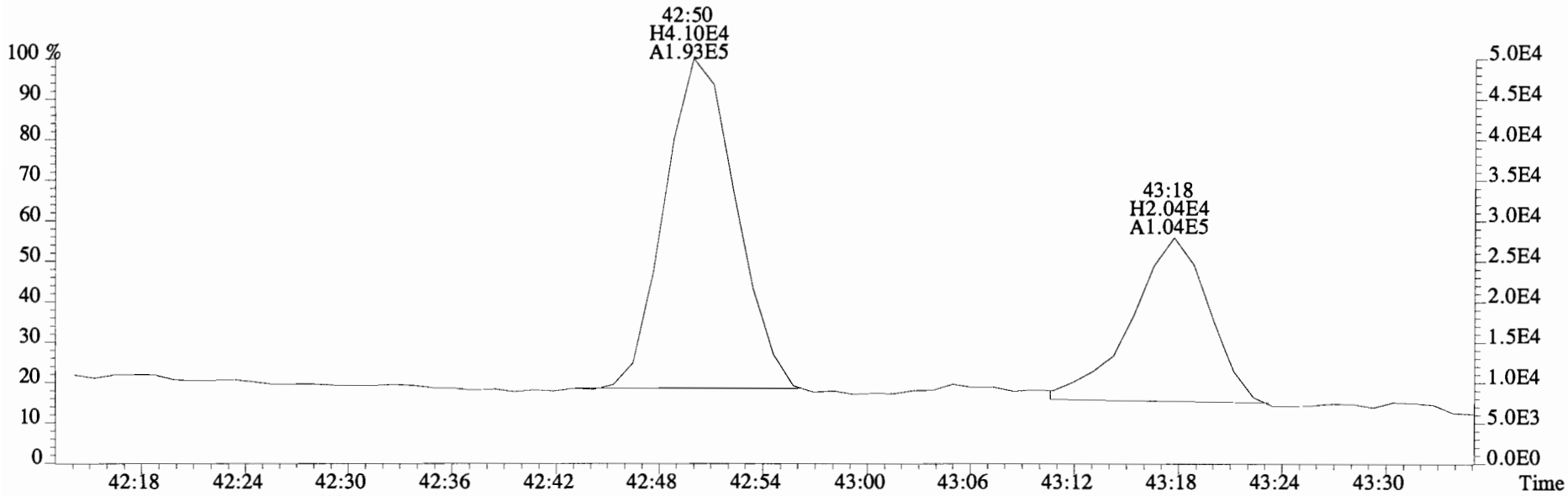


373.8788 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4304.0,0.00%,F,F)

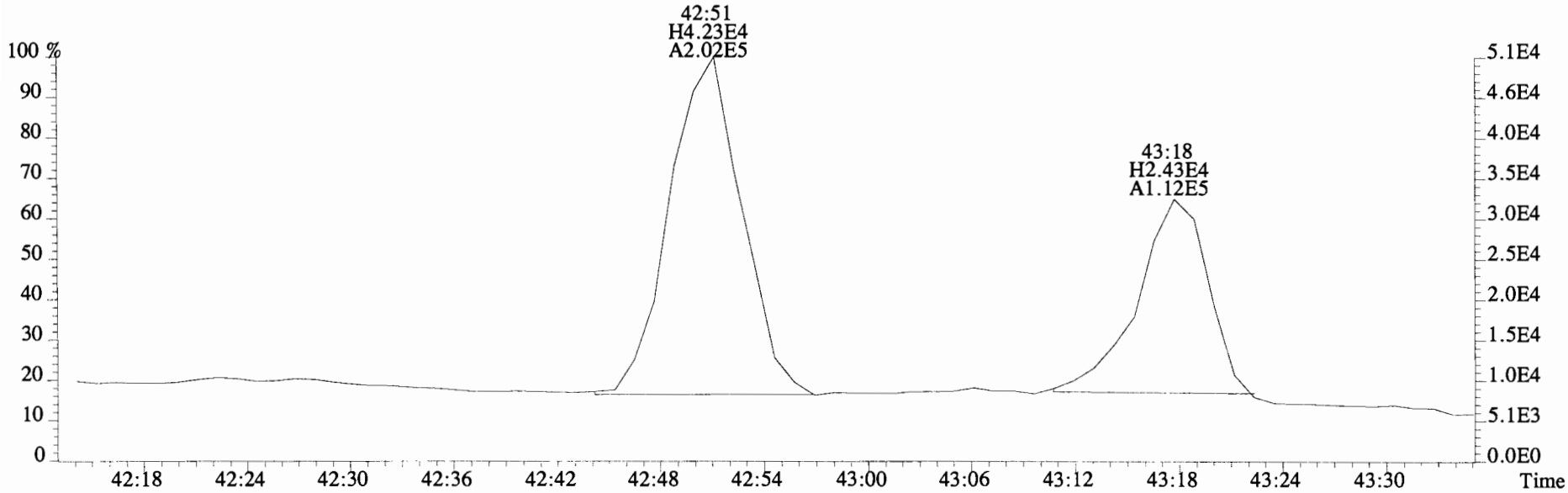



File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
393.8025 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11436.0,0.00%,F,F)
See Reinjection 47:09 - 49:45
44:05 H1.46E7 A6.86E7
45:39 H4.84E6 A2.35E7
46:10 H2.97E7 A1.47E8
47:32 H2.36E7 A1.15E8
48:07 H5.57E6 A2.77E7
49:22 H4.85E7 A2.41E8
49:34 H2.94E6 A1.49E7
50:45 H1.76E7 A8.64E7
395.7995 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10808.0,0.00%,F,F)
44:05 H1.38E7 A6.56E7
45:39 H4.64E6 A2.25E7
46:10 H2.80E7 A1.41E8
47:32 H2.23E7 A1.09E8
48:07 H5.31E6 A2.67E7
49:22 H4.63E7 A2.30E8
50:45 H1.66E7 A8.19E7
403.8457 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2308.0,0.00%,F,F)
42:49 H2.13E5 A9.94E5
45:38 H1.34E5 A5.94E5
49:21 H1.67E5 A8.84E5
50:44 H1.20E5 A6.10E5
52:11 H1.18E5 A6.85E5
405.8428 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3104.0,0.00%,F,F)
42:49 H4.82E5 A2.23E6
45:38 H2.86E5 A1.35E6
49:21 H3.25E5 A1.57E6
50:44 H2.75E5 A1.34E6
52:11 H2.53E5 A1.53E6
380.9760 S:9 F:4
42:48 43:35 44:10 44:33 44:57 46:13 46:41 47:00 48:09 49:17 49:39 50:42 51:41 52:02 52:25
100 %
50
0
42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 51:00 52:00 53:00 Time
4.9E7
2.4E7
0.0E0
4.6E7
2.3E7
2.1E5
1.1E5
4.9E5
2.4E5
7.7E6
3.8E6

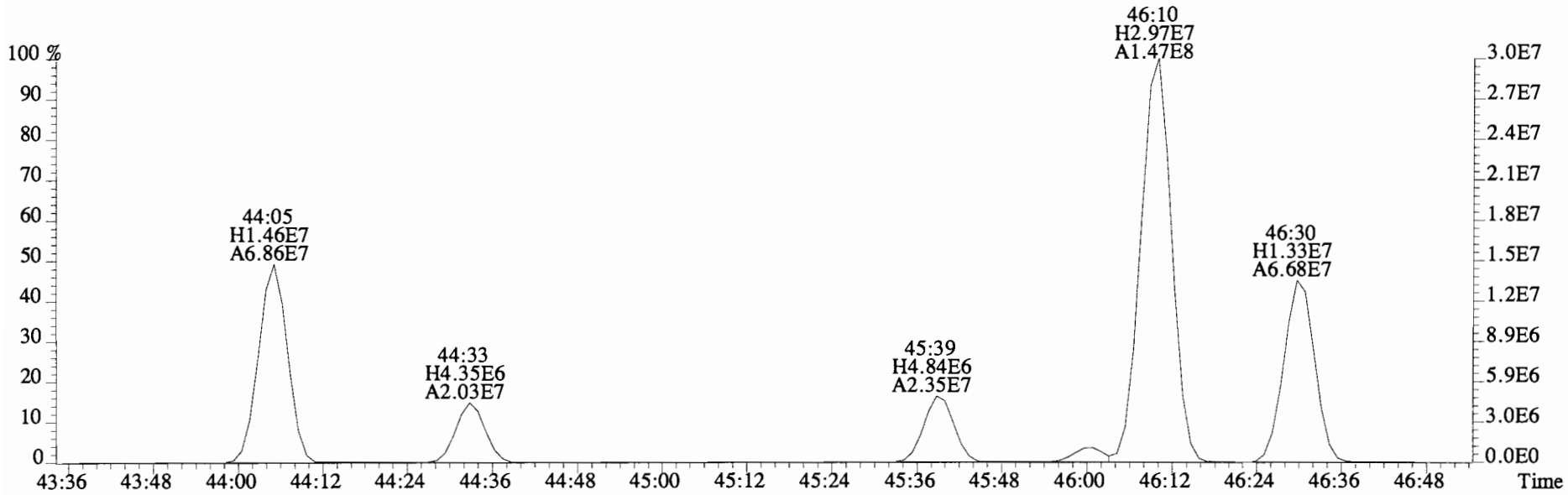
File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
393.8025 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0)



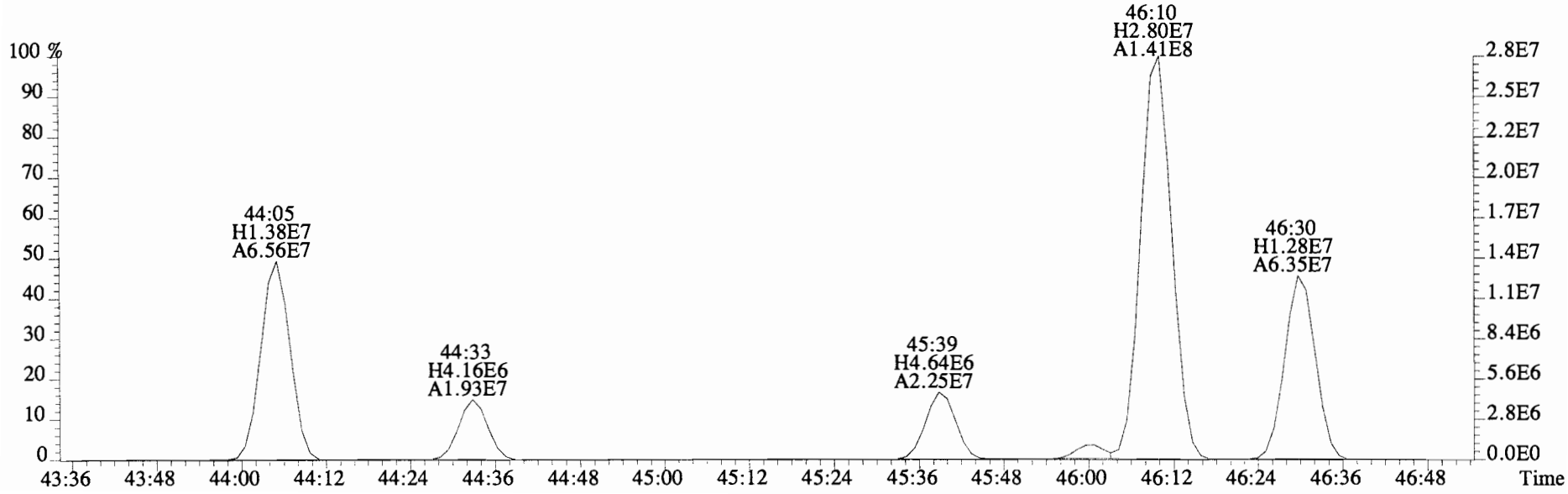
395.7995 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0)



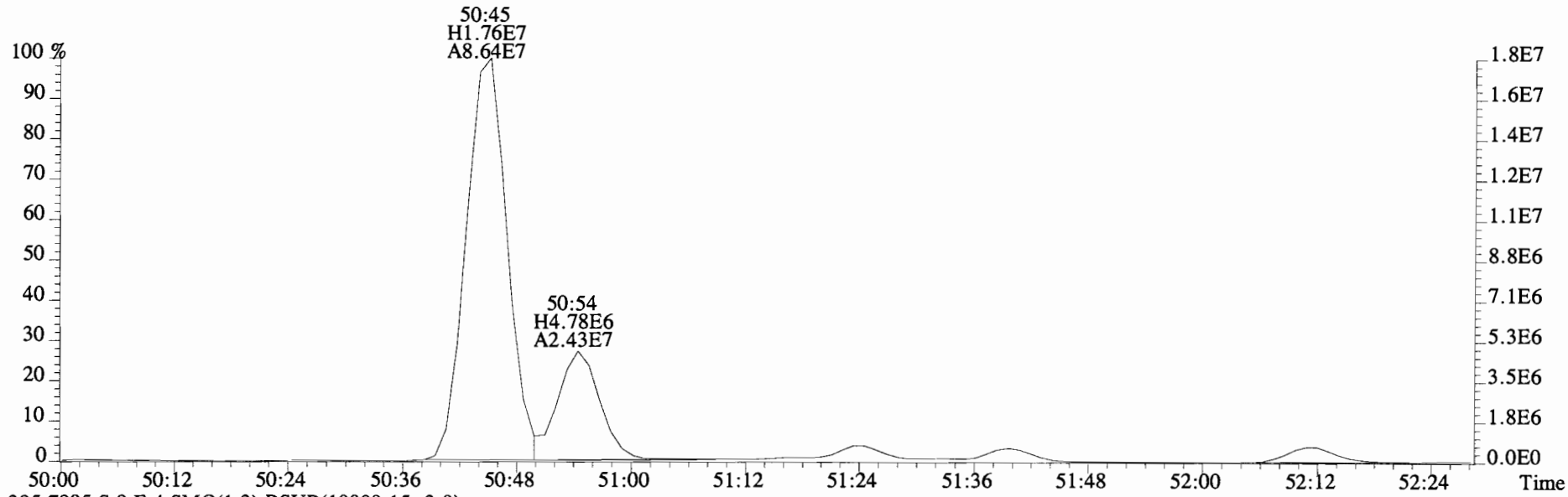
File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
393.8025 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0)



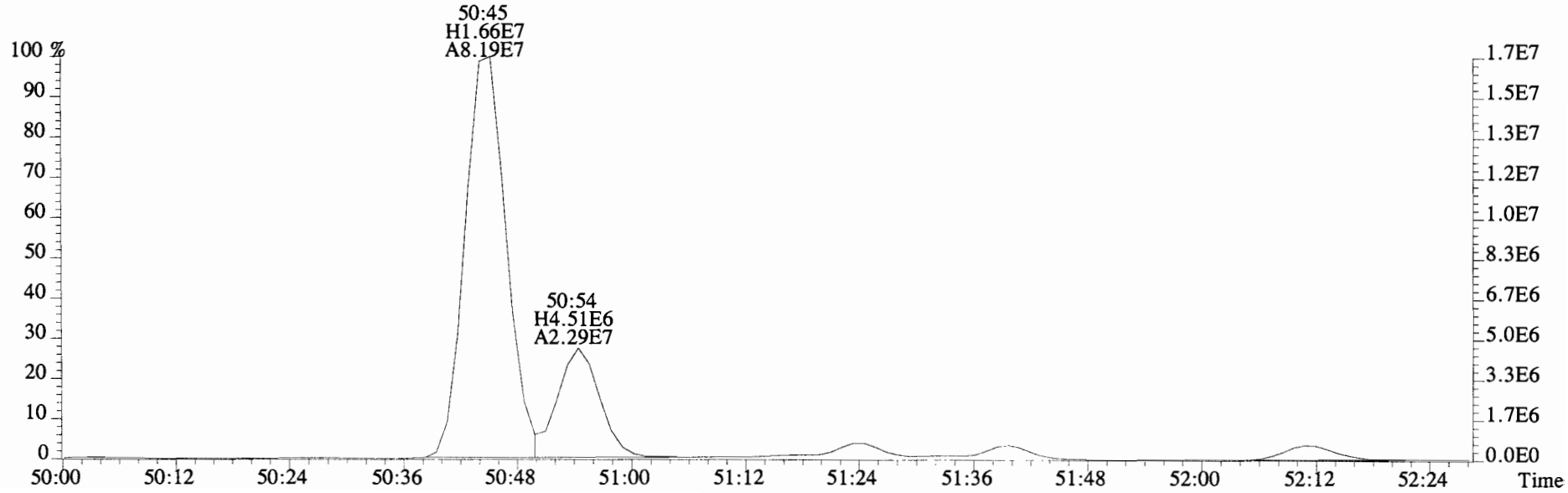
395.7995 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0)



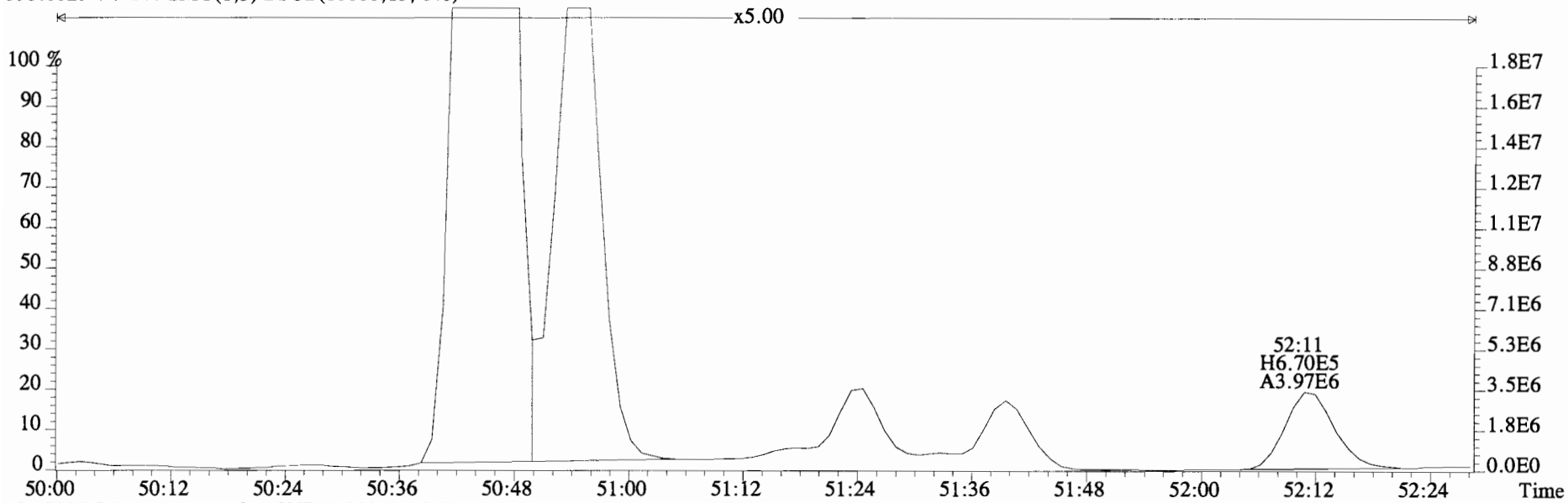
File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
393.8025 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0)



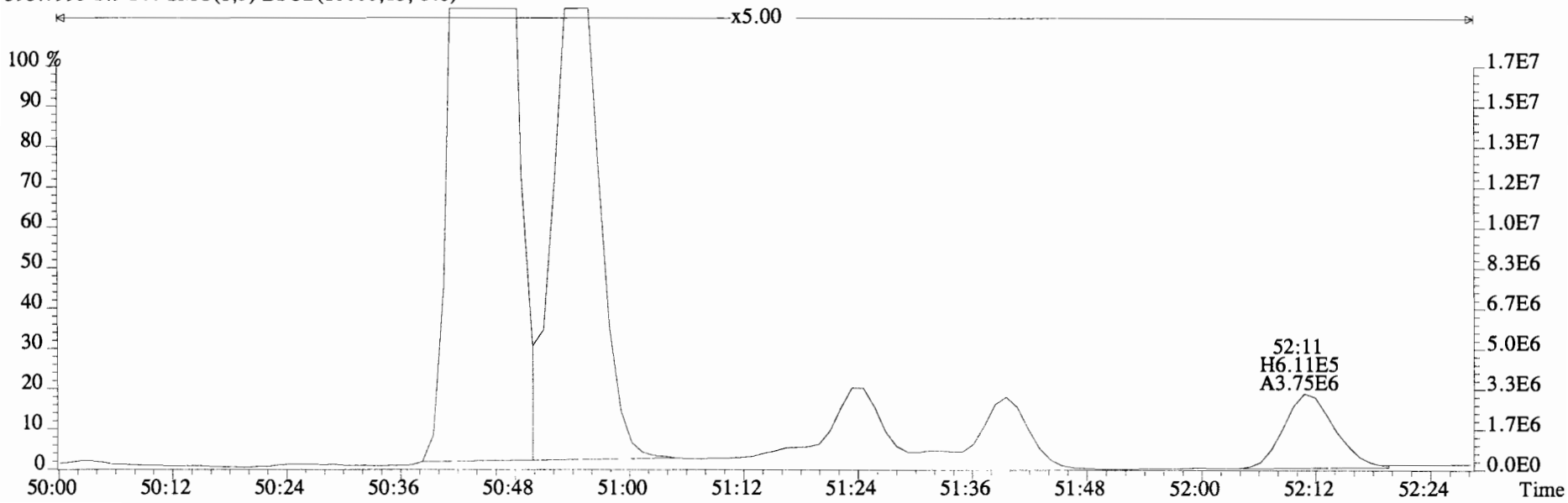
395.7995 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0)



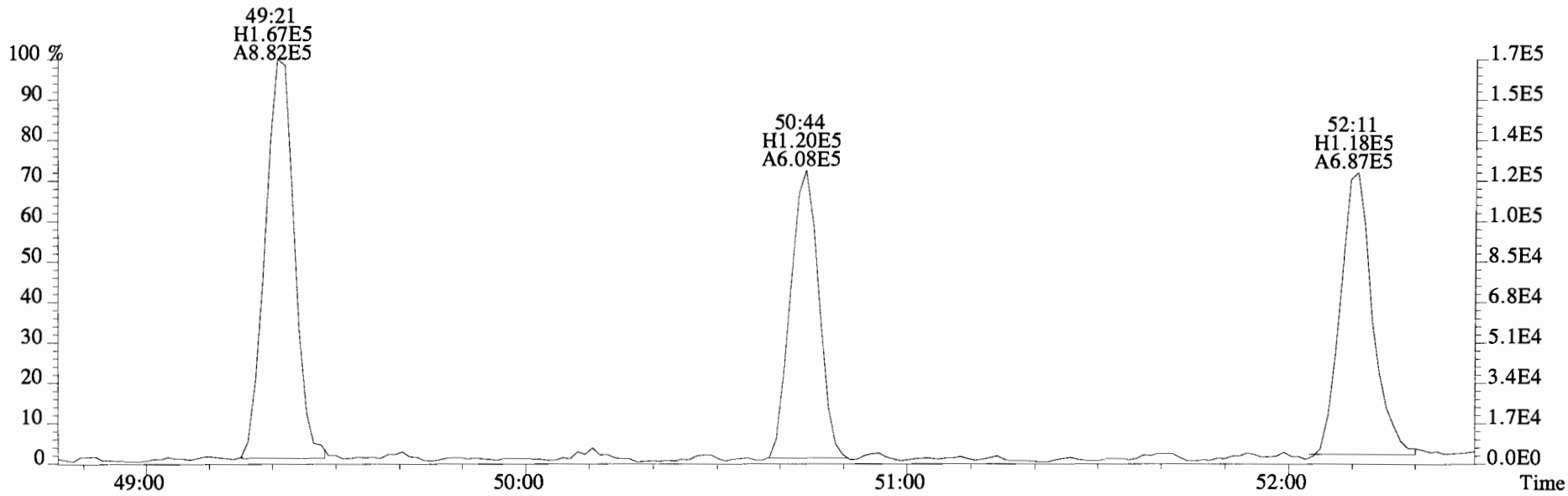
File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
393.8025 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0)



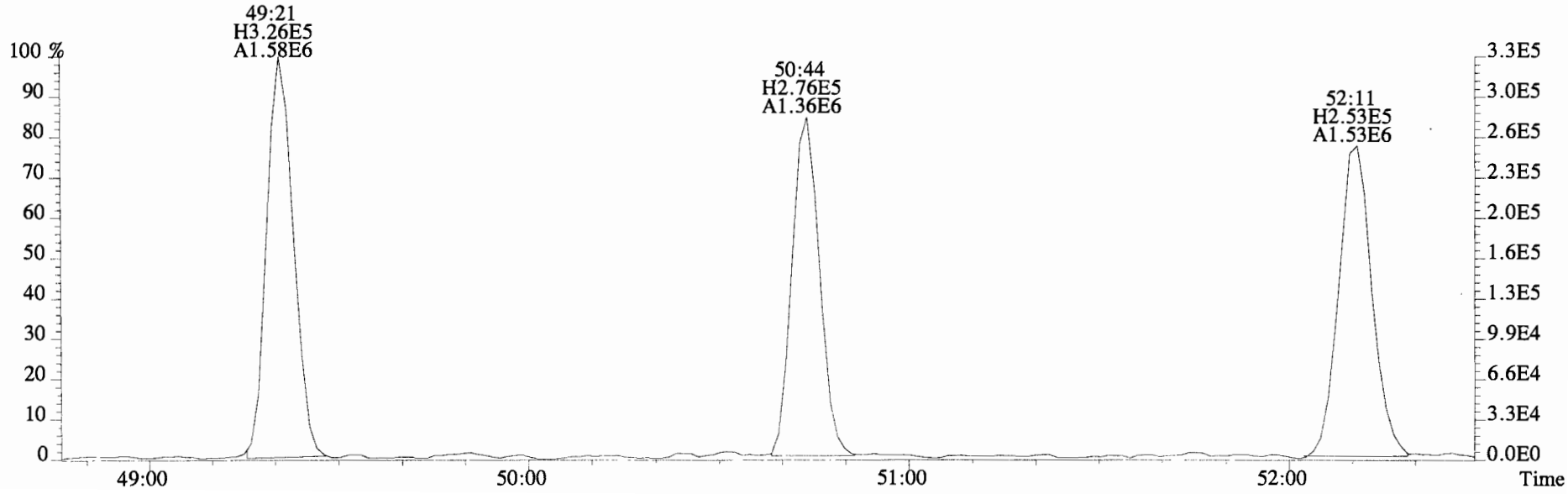
395.7995 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0)



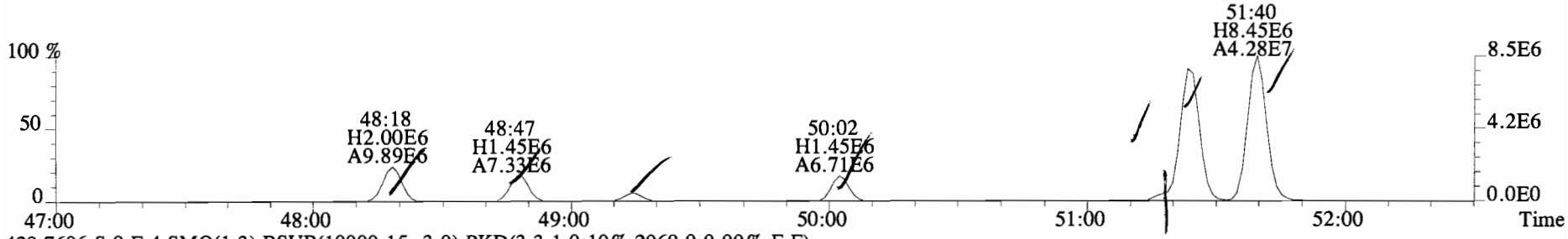
File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
403.8457 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0)



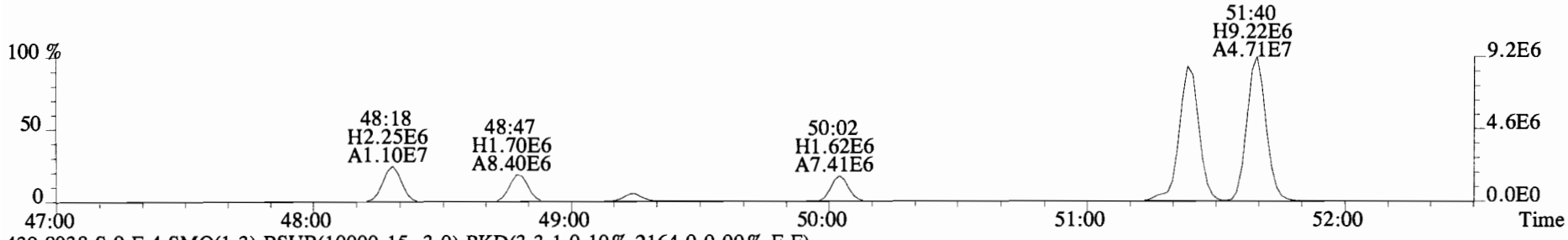
405.8428 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0)



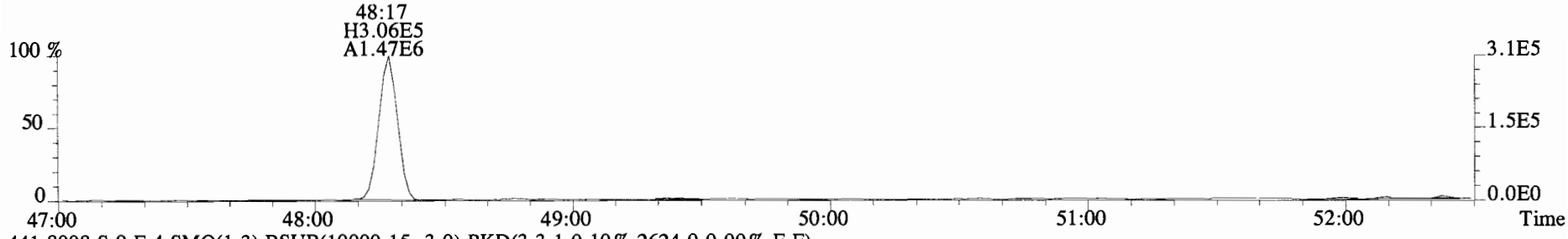
File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
427.7635 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2364.0,0.00%,F,F)



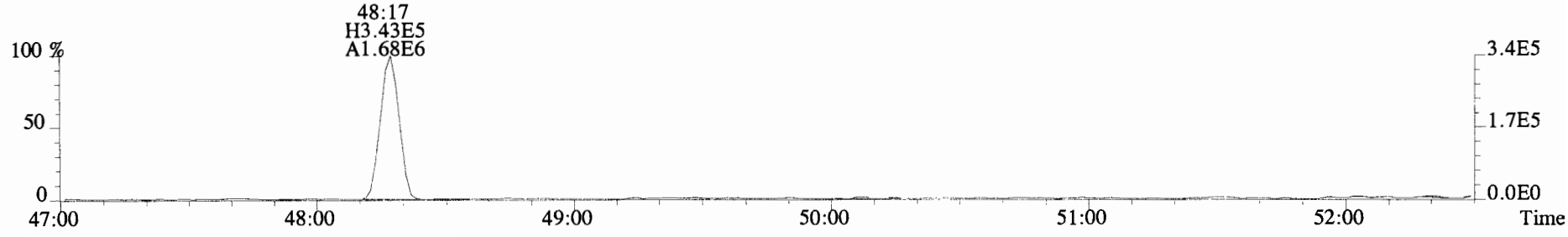
429.7606 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2060.0,0.00%,F,F)



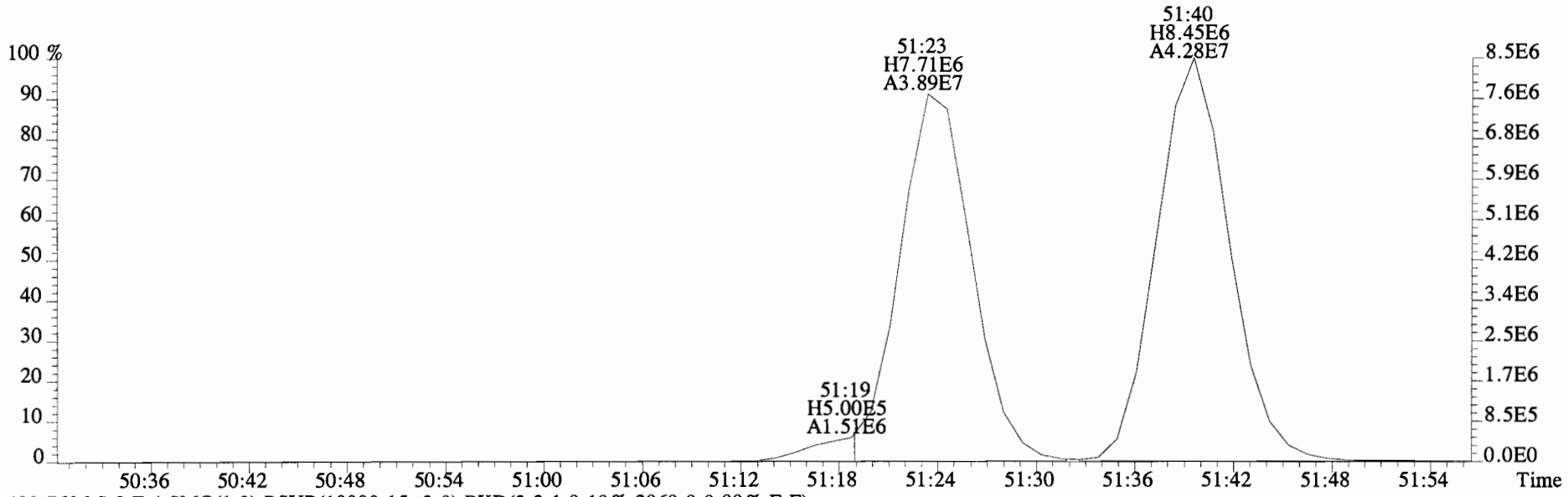
439.8038 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2164.0,0.00%,F,F)



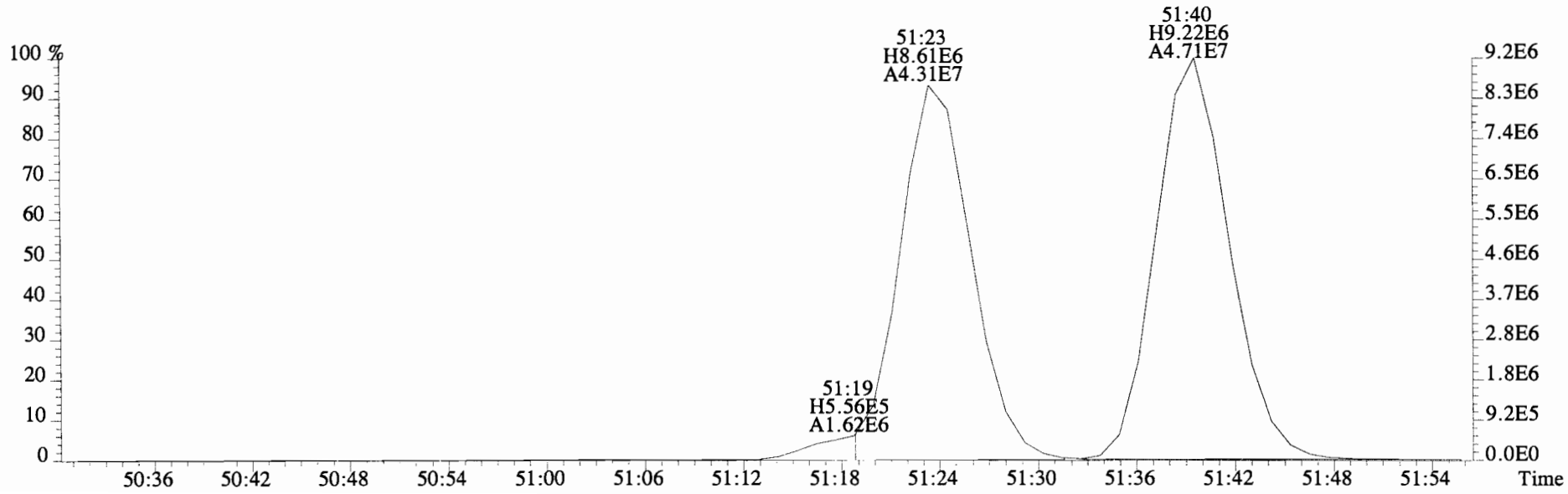
441.8008 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2624.0,0.00%,F,F)



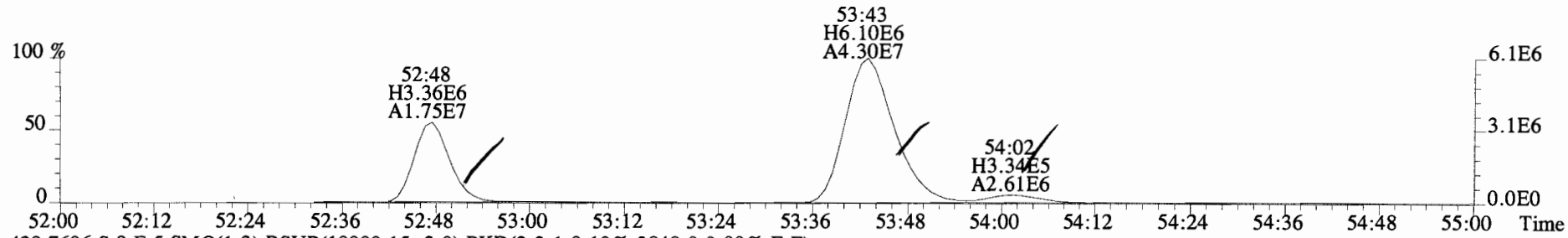
File:141024E2 #1-546 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
427.7635 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2364.0,0.00%,F,F)



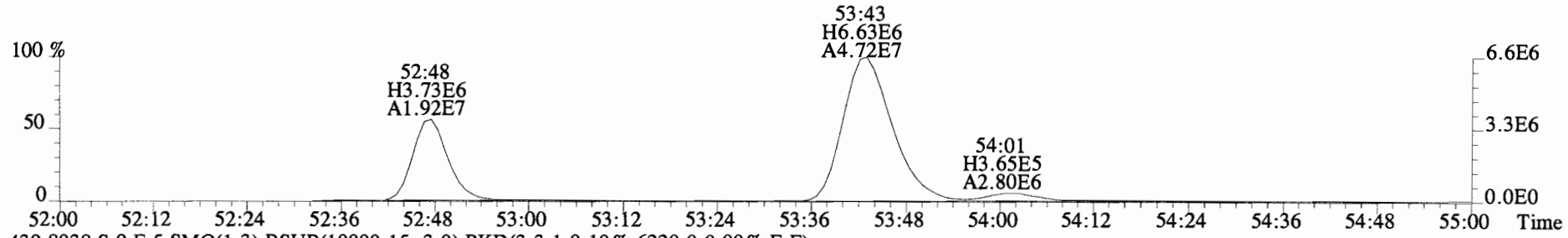
429.7606 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2060.0,0.00%,F,F)



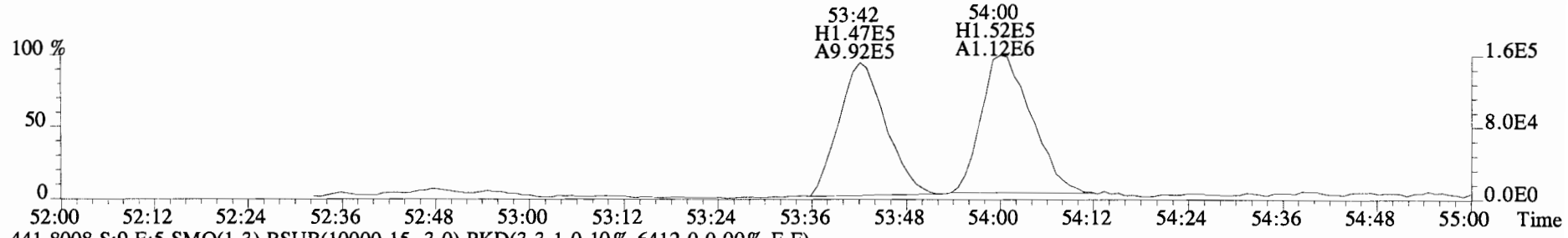
File:141024E2 #1-435 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
427.7635 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3092.0,0.00%,F,F)



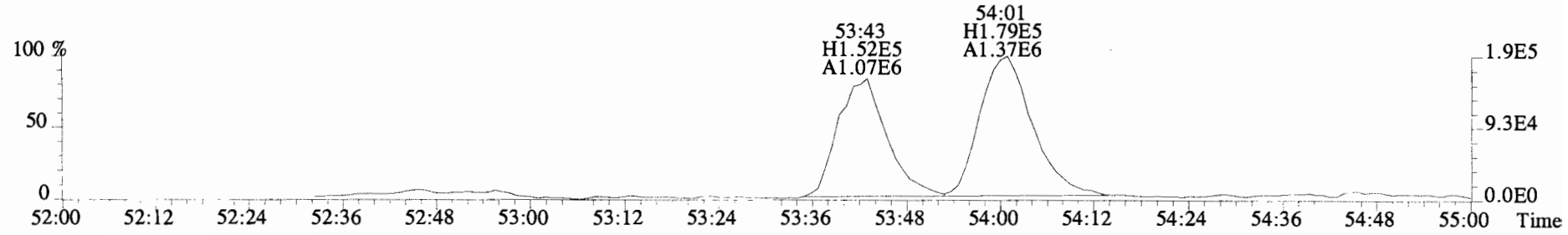
429.7606 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3848.0,0.00%,F,F)



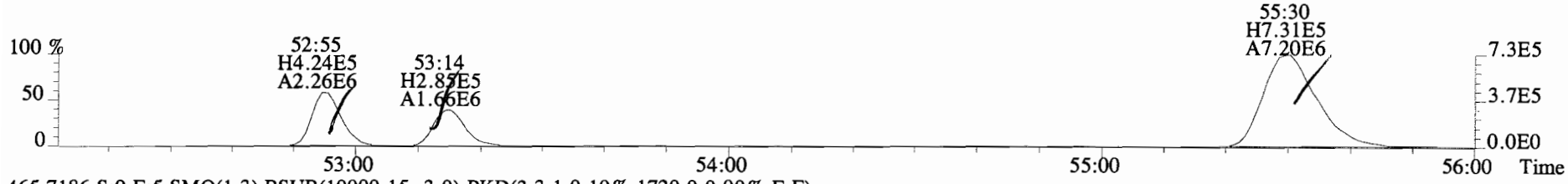
439.8038 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6220.0,0.00%,F,F)



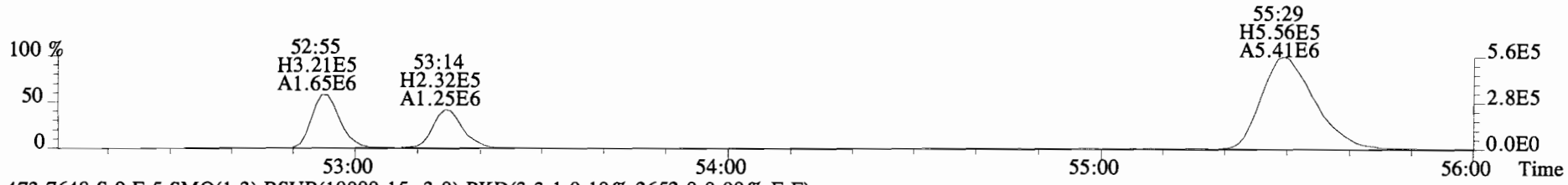
441.8008 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6412.0,0.00%,F,F)



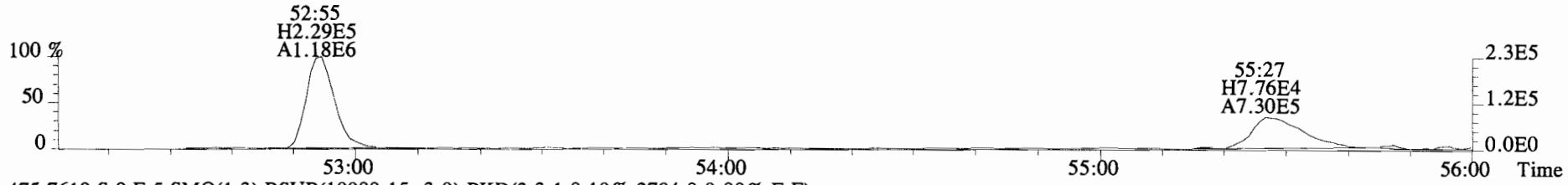
File:141024E2 #1-435 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
463.7216 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2132.0,0.00%,F,F)



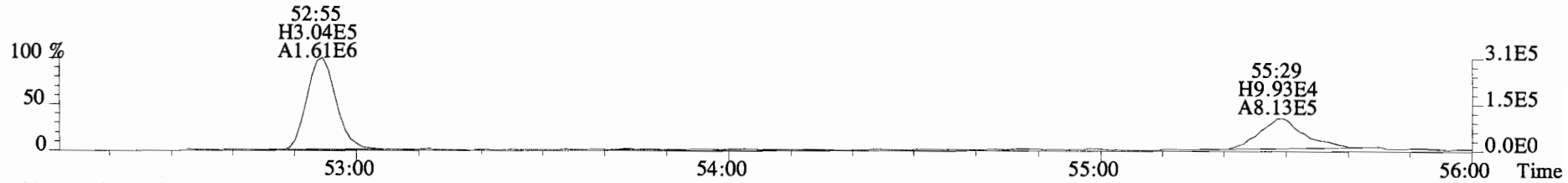
465.7186 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1720.0,0.00%,F,F)



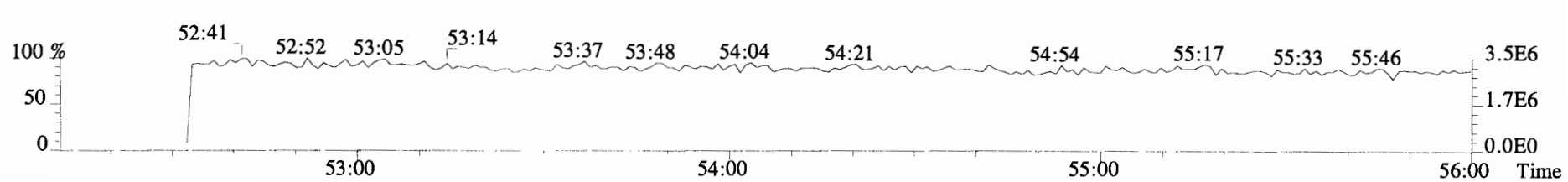
473.7648 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2652.0,0.00%,F,F)



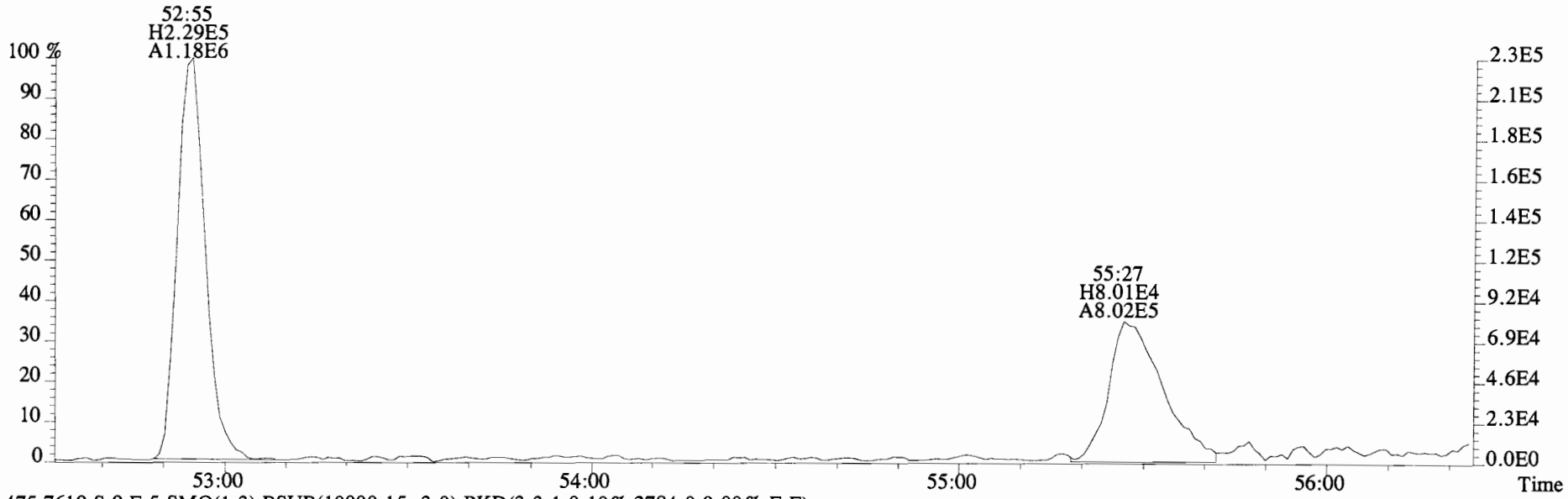
475.7619 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2784.0,0.00%,F,F)



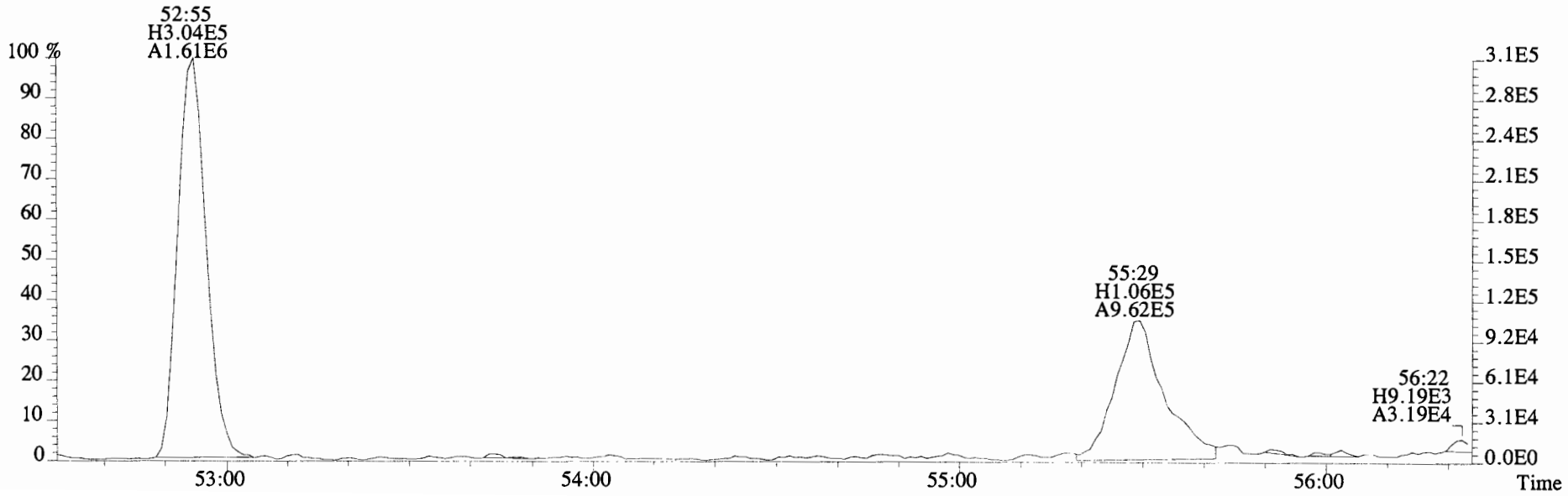
492.9697 S:9 F:5



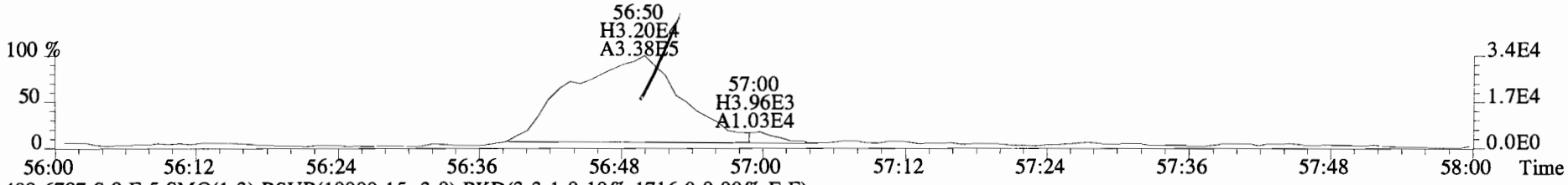
File:141024E2 #1-435 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
473.7648 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2652.0,0.00%,F,F)



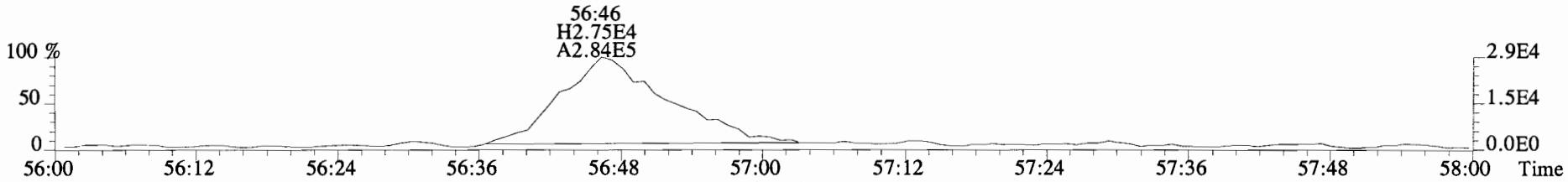
475.7619 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2784.0,0.00%,F,F)



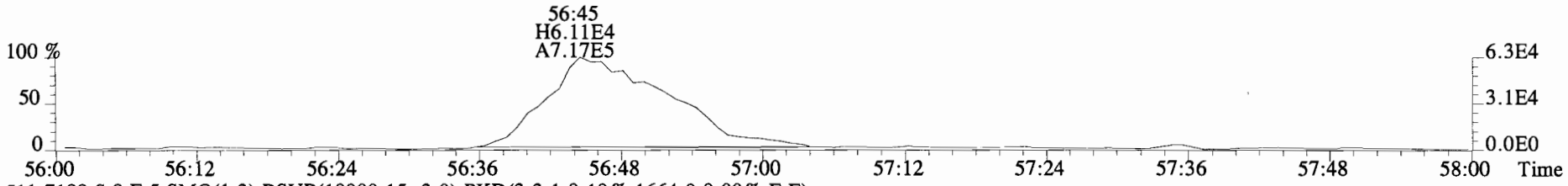
File:141024E2 #1-435 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
497.6826 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1664.0,0.00%,F,F)



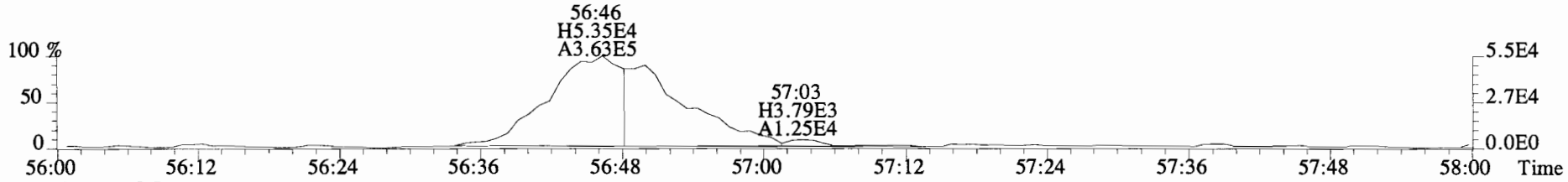
499.6797 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1716.0,0.00%,F,F)



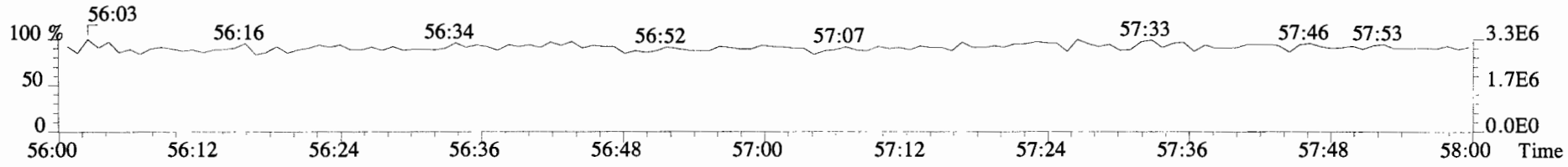
509.7229 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1620.0,0.00%,F,F)



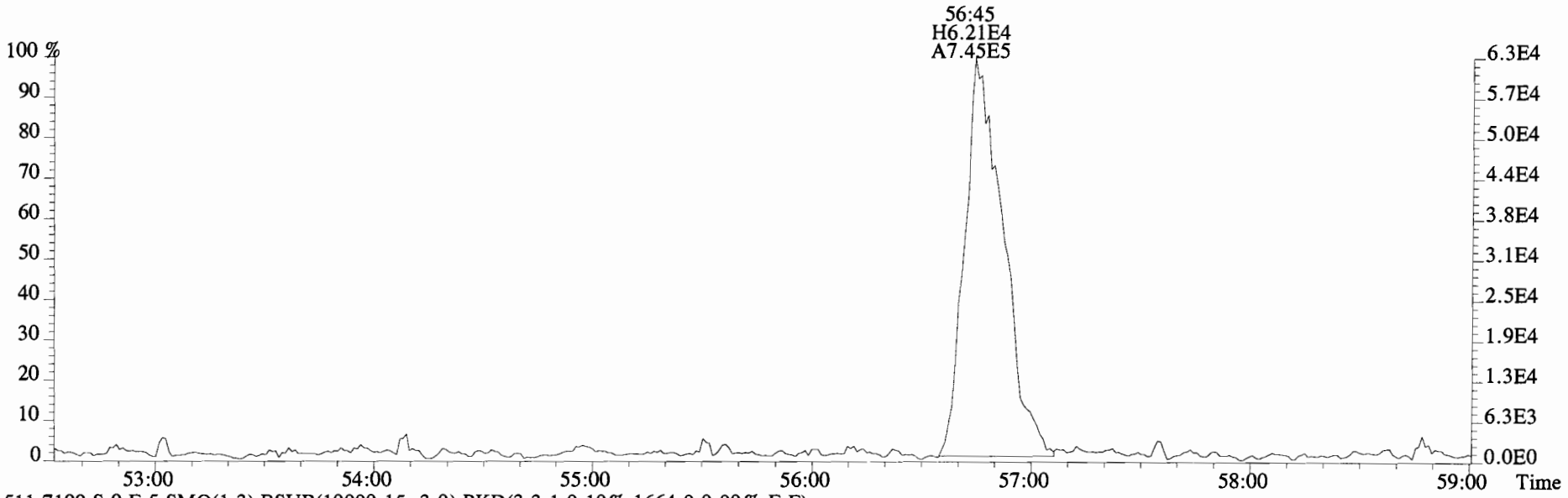
511.7199 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1664.0,0.00%,F,F)



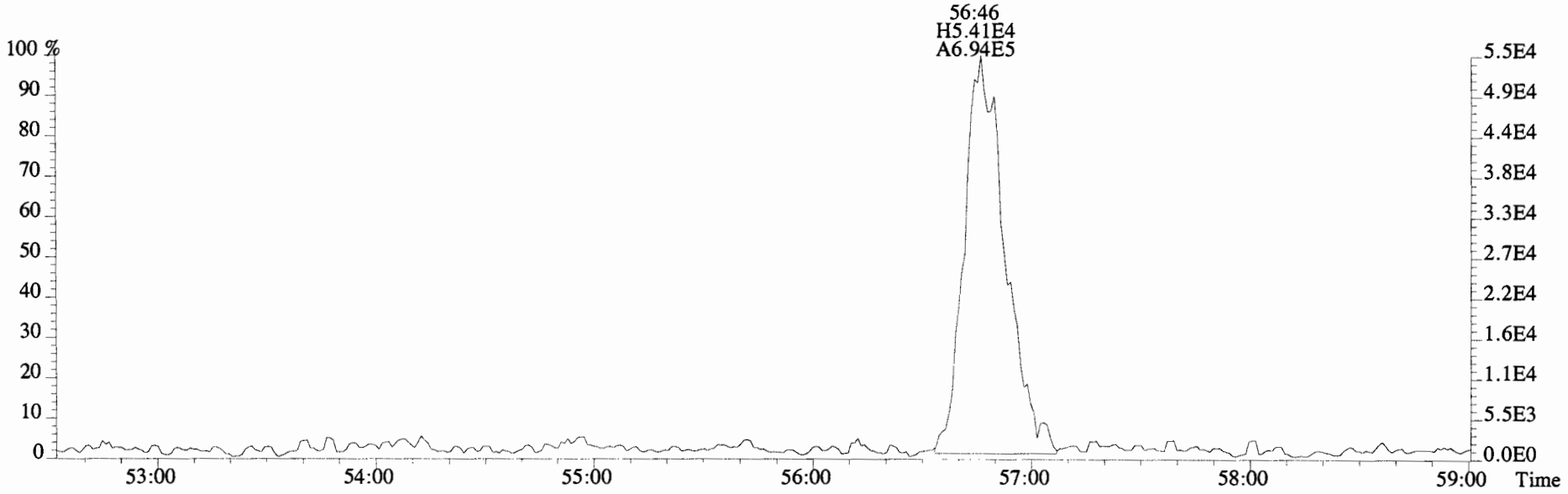
492.9697 S:9 F:5



File:141024E2 #1-435 Acq:25-OCT-2014 10:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
509.7229 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1620.0,0.00%,F,F)



511.7199 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1664.0,0.00%,F,F)



Client ID: CC-CB-22-20141013-S Filename: 141027E1 S:7 Acq:27-OCT-14 16:54:17 ConCal: ST141027E1-1
Lab ID: 1400762-05@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 9.990 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hexa	PCB-133/142	*	*	n NotFnd	0.82	*		*	2.5	*	*	0.977-0.987
Hexa	PCB-131	*	*	n NotFnd	0.91	*		*	2.5	*	*	0.981-0.991
Hexa	PCB-146/165	*	*	n NotFnd	1.25	*		*	2.5	*	*	0.986-0.996
Hexa	PCB-132/161	*	*	n NotFnd	1.10	*		*	2.5	*	*	0.992-1.002
Hexa	PCB-153	*	*	n NotFnd	1.25	*		*	2.5	*	*	0.995-1.005
Hexa	PCB-168	*	*	n NotFnd	1.45	*		*	2.5	*	*	1.001-1.011
Hexa	PCB-141	*	*	n NotFnd	1.09	*		*	2.5	*	*	0.995-1.005
Hexa	PCB-137	*	*	n NotFnd	1.06	*		*	2.5	*	*	1.004-1.014
Hexa	PCB-130	*	*	n NotFnd	0.96	*		*	2.5	*	*	1.006-1.016
Hexa	PCB-138/163/164	*	*	n NotFnd	1.29	*		*	2.5	*	*	0.996-1.006
Hexa	PCB-158/160	*	*	n NotFnd	1.34	*		*	2.5	*	*	1.001-1.011
Hexa	PCB-129	*	*	n NotFnd	0.85	*		*	2.5	*	*	1.007-1.017
Hexa	PCB-166	*	*	n NotFnd	1.19	*		*	2.5	*	*	0.988-0.998
Hexa	PCB-159	*	*	n NotFnd	1.11	*		*	2.5	*	*	0.996-1.006
Hexa	PCB-128/162	*	*	n NotFnd	1.05	*		*	2.5	*	*	1.002-1.012
Hexa	PCB-167	*	*	n NotFnd	1.20	*		*	2.5	*	*	0.995-1.005
Hexa	PCB-156	*	*	n NotFnd	1.14	*		*	2.5	*	*	0.996-1.006
Hexa	PCB-157	*	*	n NotFnd	1.16	*		*	2.5	*	*	0.995-1.005
Hexa	PCB-169	*	*	n NotFnd	1.12	*		*	2.5	*	*	0.995-1.005
Hepta	PCB-188	*	*	n NotFnd	1.58	*		*	2.5	*	*	0.996-1.006
Hepta	PCB-184	*	*	n NotFnd	1.63	*		*	2.5	*	*	1.006-1.016
Hepta	PCB-179	*	*	n NotFnd	1.30	*		*	2.5	*	*	1.024-1.034
Hepta	PCB-176	*	*	n NotFnd	1.48	*		*	2.5	*	*	1.035-1.045
Hepta	PCB-186	*	*	n NotFnd	1.45	*		*	2.5	*	*	1.050-1.060
Hepta	PCB-178	*	*	n NotFnd	1.03	*		*	2.5	*	*	1.061-1.071
Hepta	PCB-175	*	*	n NotFnd	1.01	*		*	2.5	*	*	1.069-1.079
Hepta	PCB-182/187	*	*	n NotFnd	1.25	*		*	2.5	*	*	1.073-1.083
Hepta	PCB-183	*	*	n NotFnd	1.21	*		*	2.5	*	*	1.081-1.091
Hepta	PCB-185	1.08e+07	1.05	y 47:10	1.80	5760		*	2.5	*	0.956	0.951-0.961
Hepta	PCB-174	9.40e+07	1.03	y 47:30	1.38	65300		*	2.5	*	0.962	0.958-0.968
Hepta	PCB-181	*	*	n NotFnd	1.38	*		5520	2.5	73.4	*	0.960-0.970
Hepta	PCB-177	4.92e+07	1.02	y 47:48	1.26	37500		*	2.5	*	0.968	0.963-0.973
Hepta	PCB-171	2.26e+07	1.04	y 48:05	1.58	13700		*	2.5	*	0.974	0.970-0.980
Hepta	PCB-173	1.80e+06	1.05	y 48:32	1.11	1550		*	2.5	*	0.983	0.978-0.988
Hepta	PCB-172	1.50e+07	1.04	y 48:58	1.63	8760		*	2.5	*	0.992	0.987-0.997
Hepta	PCB-192	*	*	n NotFnd	1.74	*		5520	2.5	58.2	*	0.991-1.001
Hepta	PCB-180	1.93e+08	1.03	y 49:21	1.34	138000		*	2.5	*	1.000	0.995-1.005

Analyst: DMS 10/30/14

Date: 10/30/14

Client ID: CC-CB-22-20141013-S Filename: 141027E1 S:7 Acq:27-OCT-14 16:54:17 ConCal: ST141027E1-1
Lab ID: 1400762-05@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 9.990 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	1.15e+07	1.03	y 49:33	1.72	6400		5520	2.5	59.0	1.004	0.999	1.009
Hepta	PCB-191	4.06e+06	0.98	y 49:47	1.69	2300		5520	2.5	59.8	1.009	1.004	1.014
Hepta	PCB-170	*	*	n NotF	1.60	*		*	2.5	*	*	0.995	1.005
Hepta	PCB-190	*	*	n NotF	2.21	*		*	2.5	*	*	0.998	1.008
Hepta	PCB-189	*	*	n NotF	1.55	*		*	2.5	*	*	0.995	1.005
Octa	PCB-202	*	*	n NotF	1.08	*		*	2.5	*	*	0.995	1.005
Octa	PCB-201	*	*	n NotF	1.15	*		*	2.5	*	*	1.005	1.015
Octa	PCB-204	*	*	n NotF	1.14	*		*	2.5	*	*	1.008	1.018
Octa	PCB-197	*	*	n NotF	1.07	*		*	2.5	*	*	1.015	1.025
Octa	PCB-200	*	*	n NotF	1.06	*		*	2.5	*	*	1.032	1.044
Octa	PCB-198	*	*	n NotF	0.76	*		*	2.5	*	*	1.059	1.069
Octa	PCB-199	*	*	n NotF	0.80	*		*	2.5	*	*	1.061	1.071
Octa	PCB-196/203	*	*	n NotF	0.80	*		*	2.5	*	*	1.066	1.076
Octa	PCB-195	*	*	n NotF	1.23	*		*	2.5	*	*	0.979	0.989
Octa	PCB-194	*	*	n NotF	1.21	*		*	2.5	*	*	0.995	1.005
Octa	PCB-205	*	*	n NotF	1.54	*		*	2.5	*	*	1.001	1.011
Nona	PCB-208	*	*	n NotF	0.93	*		*	2.5	*	*	0.995	1.005
Nona	PCB-207	*	*	n NotF	1.08	*		*	2.5	*	*	1.001	1.011
Nona	PCB-206	*	*	n NotF	1.02	*		*	2.5	*	*	0.995	1.005
Deca	PCB-209	*	*	n NotF	1.17	*		*	2.5	*	*	0.995	1.005

Analyst: DMS

Date: 10/31/14

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	*	*	n	NotFnd	1.27	*	
Total Di-PCB	*	*	n	NotFnd	1.21	*	
Total Tri-PCB	*	*	n	NotFnd	1.10	*	
Total Tri-PCB	*	*	n	NotFnd	1.21	*	Sum:0.00000
Total Tetra-PCB	*	*	n	NotFnd	1.09	*	
Total Penta-PCB	*	*	n	NotFnd	1.18	*	
Total Penta-PCB	*	*	n	NotFnd	1.25	*	Sum:0.00000
Total Hexa-PCB	*	*	n	NotFnd	0.90	*	
Total Hexa-PCB	*	*	n	NotFnd	1.11	*	Sum:0.00000
Total Hepta-PCB	4.02e+08	1.05	y	47:10	1.42	278915	
Total Octa-PCB	*	*	n	NotFnd	0.96	*	
Total Octa-PCB	*	*	n	NotFnd	1.33	*	Sum:0.00000
Total Nona-PCB	*	*	n	NotFnd	1.01	*	
Total Deca-PCB	*	*	n	NotFnd	1.17	*	

Total PCB Conc:278914.535912

Integrations
by
Analyst: DMS

Date: 10/31/14

Client ID: CC-CB-22-20141013-S Filename: 141027E1 S:7 Acq:27-OCT-14 16:54:17 ConCal: ST141027E1-1
Lab ID: 1400762-05@20X GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:9.9901 EndCAL: NA

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	*	*	n	0.87	NotFnd	*	0.629	0.635	*	*
13C-PCB-3	7.63e+05	10.23	n	0.91	18:57	0.730	0.725	0.733	254	25.4
13C-PCB-4	1.70e+06	1.63	y	0.59	20:14	0.779	0.775	0.783	880	87.9
13C-PCB-9	2.76e+06	1.61	y	0.90	21:57	0.846	0.842	0.850	935	93.4
13C-PCB-11	2.87e+06	1.61	y	0.94	25:16	0.973	0.968	0.978	931	93.0
13C-PCB-19	1.10e+06	0.99	y	0.53	24:17	0.935	0.930	0.940	628	62.7
13C-PCB-28	*	*	n	0.93	NotFnd	*	0.999	1.009	*	*
13C-PCB-32	1.71e+06	1.04	y	0.80	27:08	1.045	1.040	1.050	650	65.0
13C-PCB-37	*	*	n	0.84	NotFnd	*	1.131	1.143	*	*
13C-PCB-47	1.55e+06	0.72	y	0.81	31:57	0.871	0.866	0.874	974	97.3
13C-PCB-52	1.44e+06	0.70	y	0.77	31:27	0.857	0.853	0.861	956	95.5
13C-PCB-54	1.78e+06	0.72	y	0.97	27:58	0.762	0.758	0.766	936	93.6
13C-PCB-70	1.96e+06	0.75	y	1.00	35:27	0.966	0.961	0.971	1000	100
13C-PCB-77	1.84e+06	0.75	y	0.94	39:35	1.079	1.073	1.083	998	99.7
13C-PCB-80	1.97e+06	0.82	y	1.03	35:52	0.977	0.972	0.982	977	97.6
13C-PCB-81	1.64e+06	0.83	y	0.92	38:60	1.062	1.057	1.067	909	90.8
13C-PCB-95	1.45e+06	1.60	y	0.74	35:45	0.913	0.908	0.918	1010	101
13C-PCB-97	1.29e+06	1.74	y	0.70	38:44	0.989	0.984	0.994	949	94.8
13C-PCB-101	1.34e+06	1.53	y	0.78	37:26	0.955	0.951	0.961	885	88.4
13C-PCB-104	1.96e+06	1.60	y	1.00	32:36	0.832	0.828	0.836	1020	101
13C-PCB-105	1.08e+06	1.35	y	1.37	43:02	0.928	0.924	0.934	629	62.8
13C-PCB-114	1.06e+06	1.53	y	1.36	42:10	0.910	0.905	0.915	623	62.3
13C-PCB-118	1.89e+06	1.63	y	0.96	41:30	1.059	1.054	1.064	1020	102
13C-PCB-123	1.75e+06	1.49	y	0.89	41:19	1.055	1.050	1.060	1010	101
13C-PCB-126	8.70e+05	1.44	y	1.31	45:17	0.977	0.972	0.982	531	53.0
13C-PCB-127	1.10e+06	1.49	y	1.47	43:23	0.936	0.931	0.941	596	59.6
13C-PCB-138	1.27e+06	1.23	y	1.10	44:46	0.966	0.961	0.971	919	91.8
13C-PCB-141	1.26e+06	1.28	y	1.07	43:55	0.948	0.943	0.953	935	93.4
13C-PCB-153	1.49e+06	1.20	y	1.15	43:11	0.932	0.927	0.937	1040	104
13C-PCB-155	1.63e+06	1.42	y	0.84	36:58	0.944	0.939	0.949	1000	100
13C-PCB-156	1.51e+06	1.28	y	1.30	48:05	1.037	1.032	1.042	928	92.7
13C-PCB-157	1.61e+06	1.45	n	1.36	48:21	1.043	1.038	1.048	944	94.3
13C-PCB-159	1.43e+06	1.42	y	1.25	46:05	0.994	0.989	0.999	912	91.1
13C-PCB-167	1.62e+06	1.39	y	1.35	46:46	1.009	1.004	1.014	954	95.3
13C-PCB-169	1.41e+06	1.11	y	1.29	50:25	1.088	1.083	1.093	874	87.3
13C-PCB-170	6.76e+05	0.55	n	0.54	50:44	1.095	1.089	1.101	995	99.4
13C-PCB-180	1.04e+06	0.44	y	0.68	49:21	1.065	1.060	1.070	1220	122
13C-PCB-188	1.39e+06	0.42	y	0.92	42:48	0.923	0.919	0.929	1210	121
13C-PCB-189	8.58e+05	0.47	y	0.72	52:13	1.126	1.120	1.132	956	95.5
13C-PCB-194	*	*	n	0.80	NotFnd	*	0.990	1.000	*	*
13C-PCB-202	1.45e+06	0.94	y	0.84	48:16	1.041	1.036	1.046	1380	138
13C-PCB-206	*	*	n	0.65	NotFnd	*	1.021	1.031	*	*
13C-PCB-208	*	*	n	1.08	NotFnd	*	0.976	0.986	*	*
13C-PCB-209	*	*	n	0.61	NotFnd	*	1.045	1.055	*	*

CRS vs. RS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.64e+06	0.69	y	1.02	37:45	1.029	1.023	1.034	827	82.7
13C-PCB-178	8.89e+05	0.44	y	0.61	45:37	0.984	0.979	0.990	1160	115

PS vs. IS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.64e+06	0.69	y	1.10	37:45	0.968	0.964	0.974	911	91.0
13C-PCB-178	8.89e+05	0.44	y	0.90	45:37	0.924	0.920	0.930	948	94.7

RS

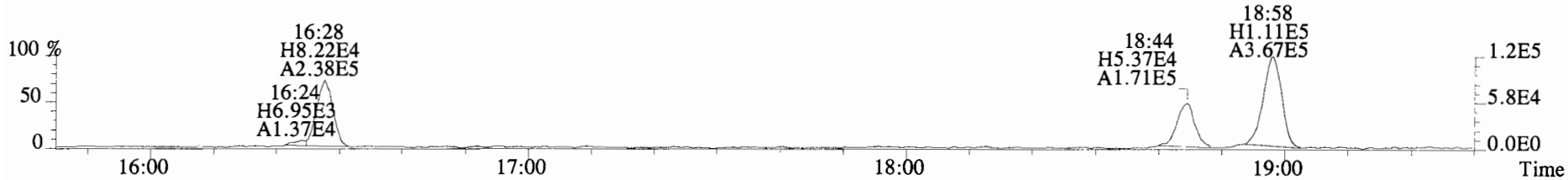
Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	3.29e+06	1.60	y	1.00	25:58	1000
13C-PCB-31	*	*	n	1.00	NotFnd	*
13C-PCB-60	1.96e+06	0.75	y	1.00	36:42	1000
13C-PCB-111	1.93e+06	1.54	y	1.00	39:10	1000
13C-PCB-128	1.25e+06	1.30	y	1.00	46:21	1000
13C-PCB-205	6.14e+05	0.95	y	1.00	53:45	1000

* used only

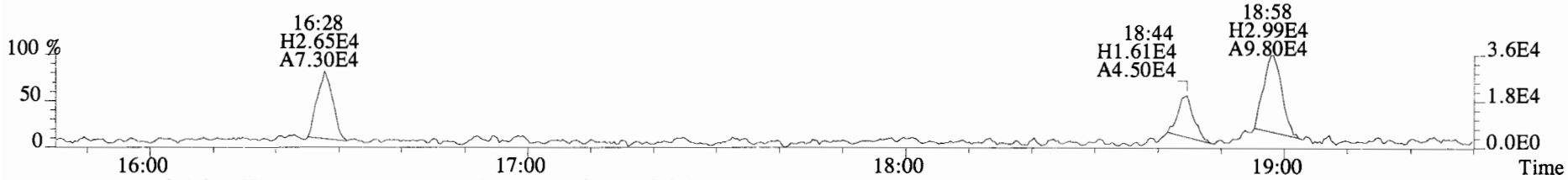
Analyst: DMS

Date: 10/30/14

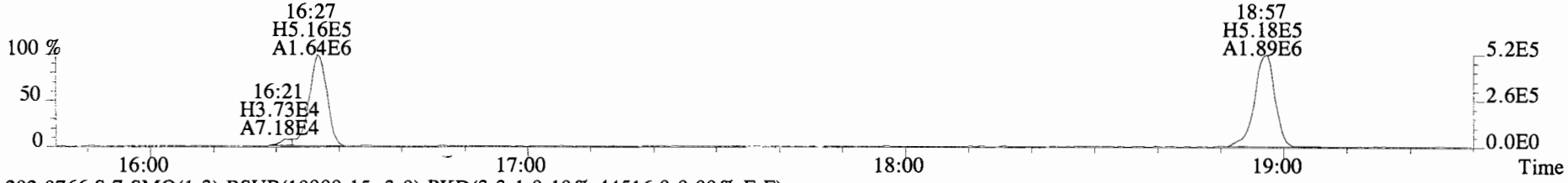
File:141027E1 #1-728 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
188.0393 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2504.0,0.00%,F,F)



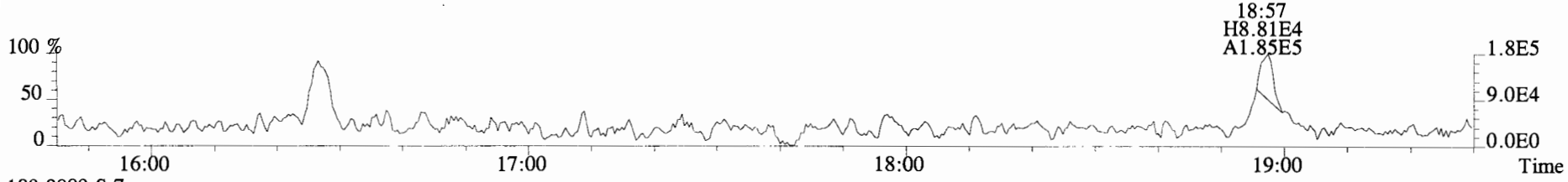
190.0363 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3088.0,0.00%,F,F)



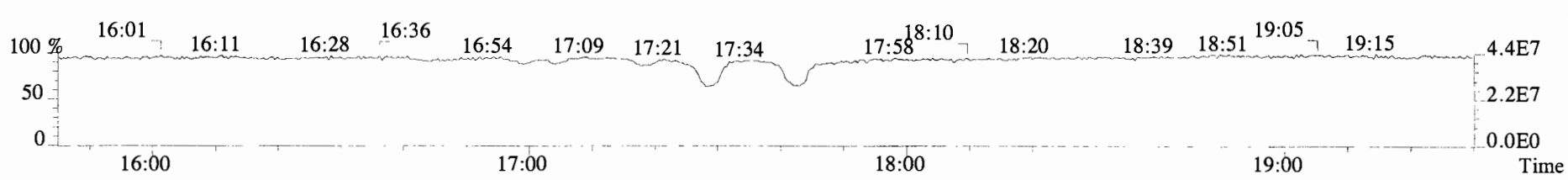
200.0795 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3692.0,0.00%,F,F)



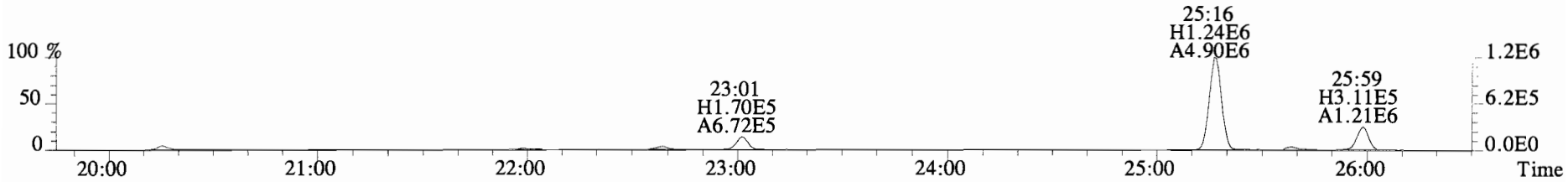
202.0766 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,44516.0,0.00%,F,F)



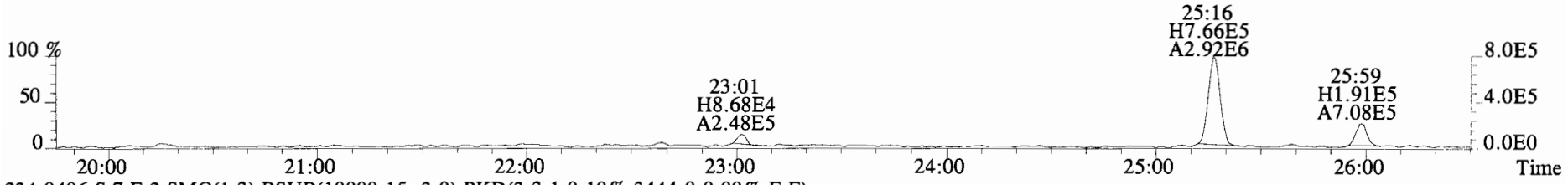
180.9880 S:7



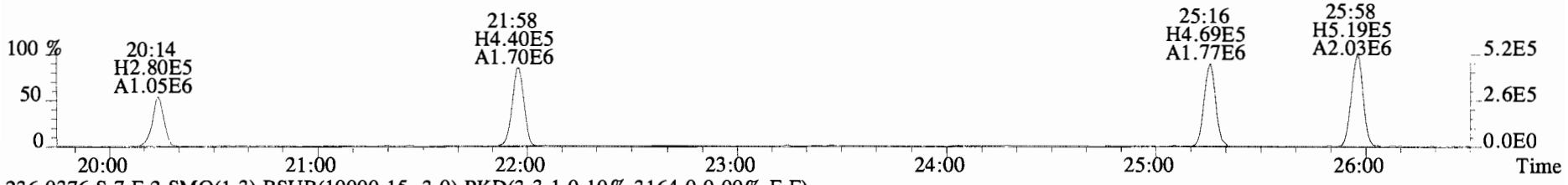
File:141027E1 #1-758 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
222.0003 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2660.0,0.00%,F,F)



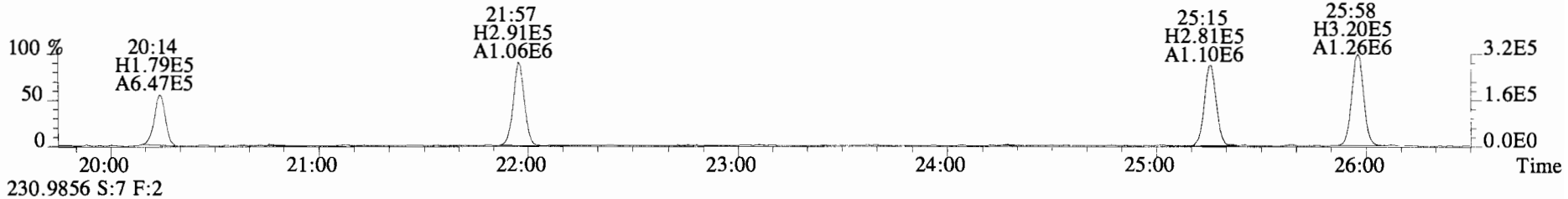
223.9974 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21428.0,0.00%,F,F)



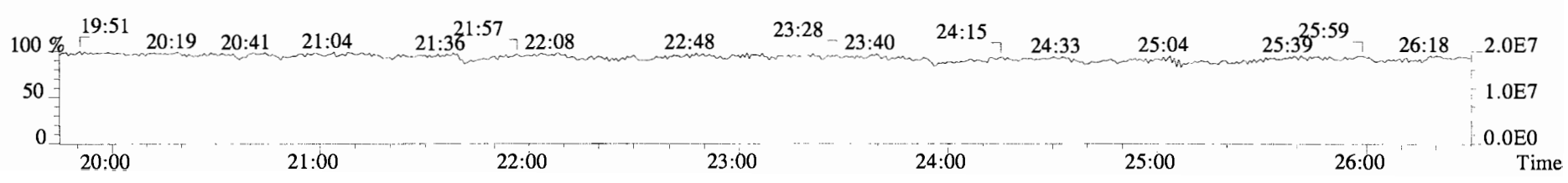
234.0406 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3444.0,0.00%,F,F)

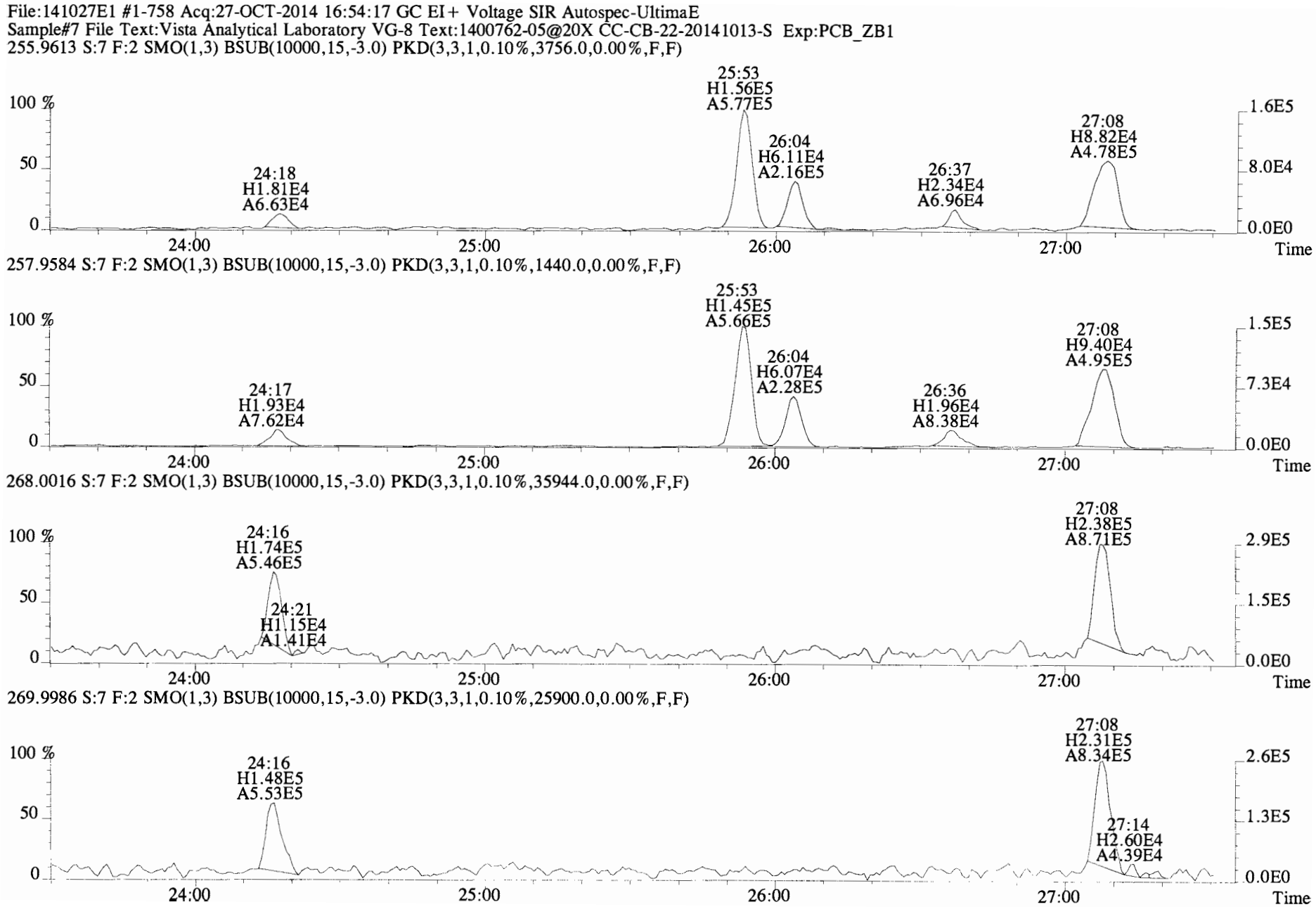


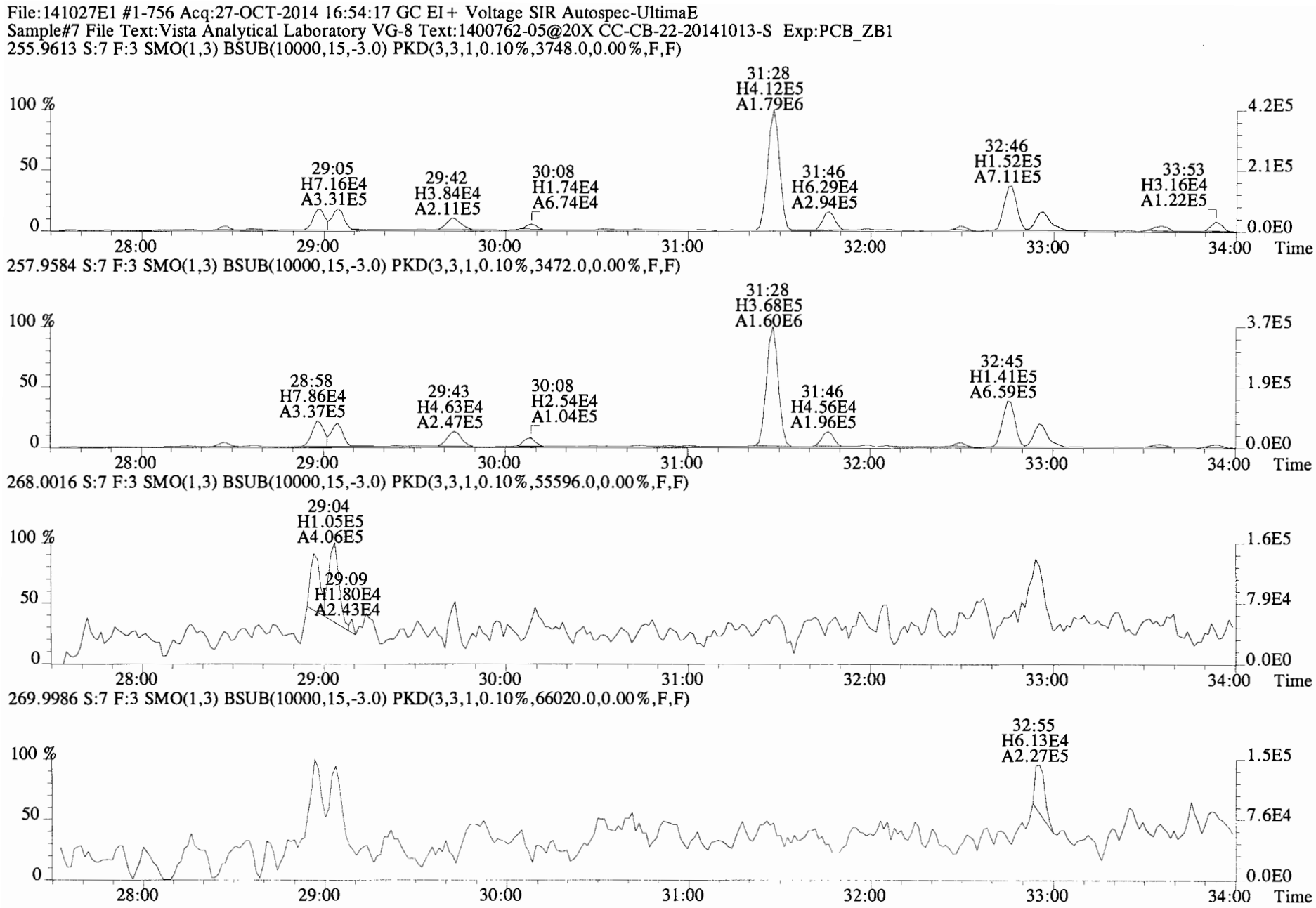
236.0376 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3164.0,0.00%,F,F)



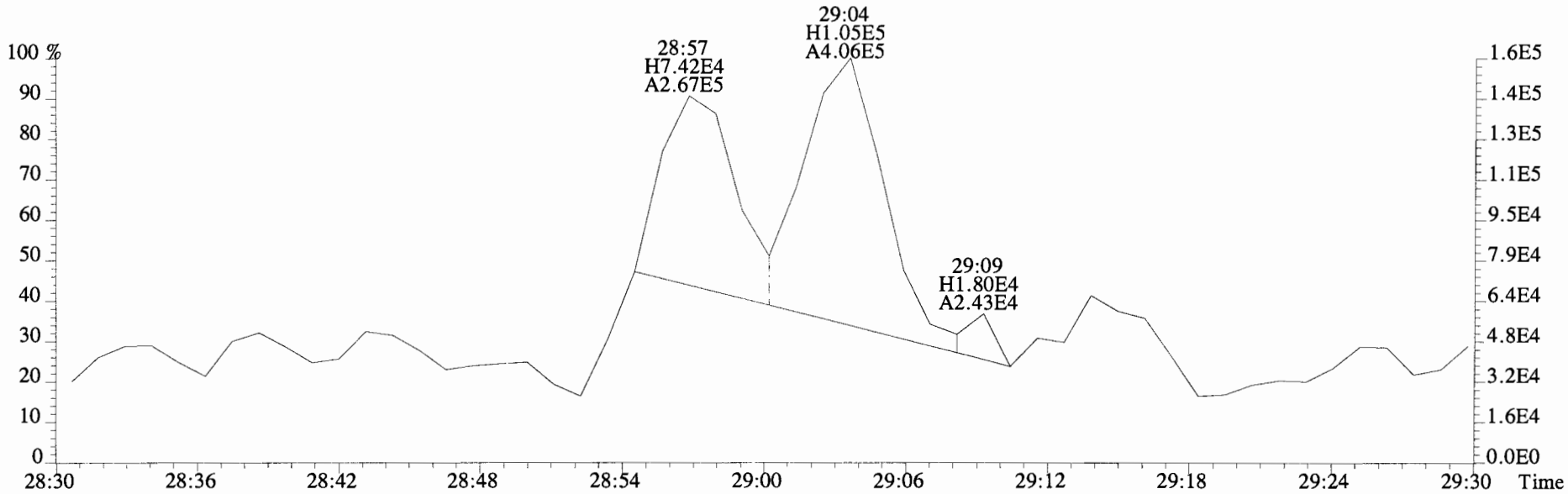
230.9856 S:7 F:2



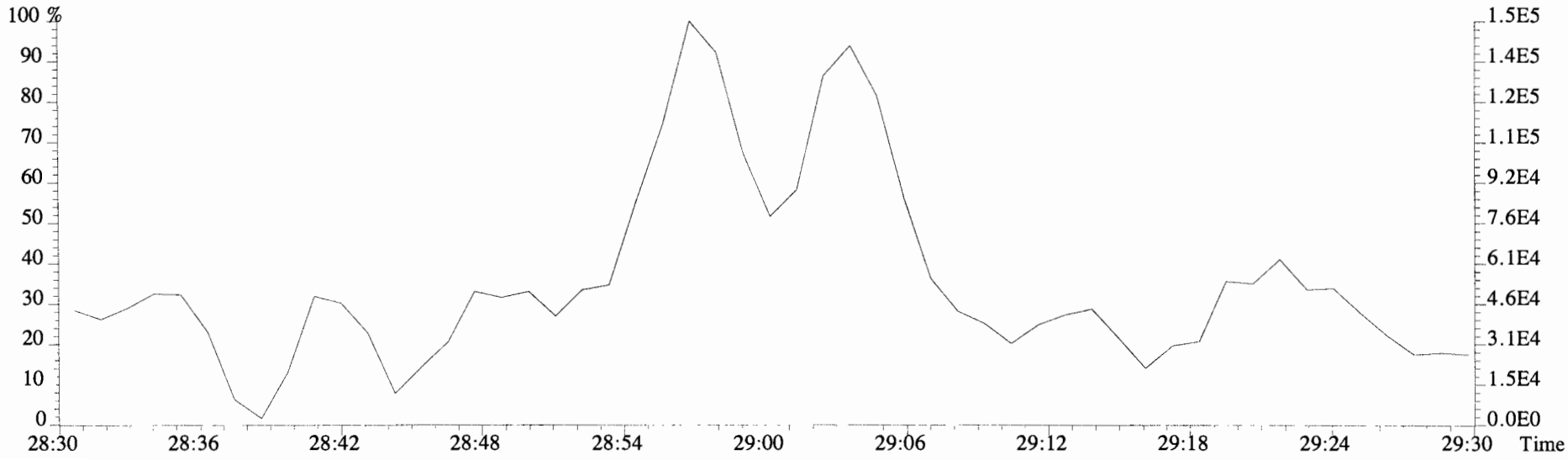

File:141027E1 #1-758 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
255.9613 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3756.0,0.00%,F,F)
25:53 H1.56E5 A5.77E5
26:04 H6.11E4 A2.16E5
24:18 H1.81E4 A6.63E4
26:37 H2.34E4 A6.96E4
27:08 H8.82E4 A4.78E5
257.9584 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1440.0,0.00%,F,F)
25:53 H1.45E5 A5.66E5
26:04 H6.07E4 A2.28E5
24:17 H1.93E4 A7.62E4
26:36 H1.96E4 A8.38E4
27:08 H9.40E4 A4.95E5
268.0016 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,35944.0,0.00%,F,F)
24:16 H1.74E5 A5.46E5
24:21 H1.15E4 A1.41E4
27:08 H2.38E5 A8.71E5
269.9986 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25900.0,0.00%,F,F)
24:16 H1.48E5 A5.53E5
27:08 H2.31E5 A8.34E5
27:14 H2.60E4 A4.39E4
100 %
50
0
24:00
25:00
26:00
27:00
Time
1.6E5
8.0E4
0.0E0
1.5E5
7.3E4
2.9E5
1.5E5
2.6E5
1.3E5

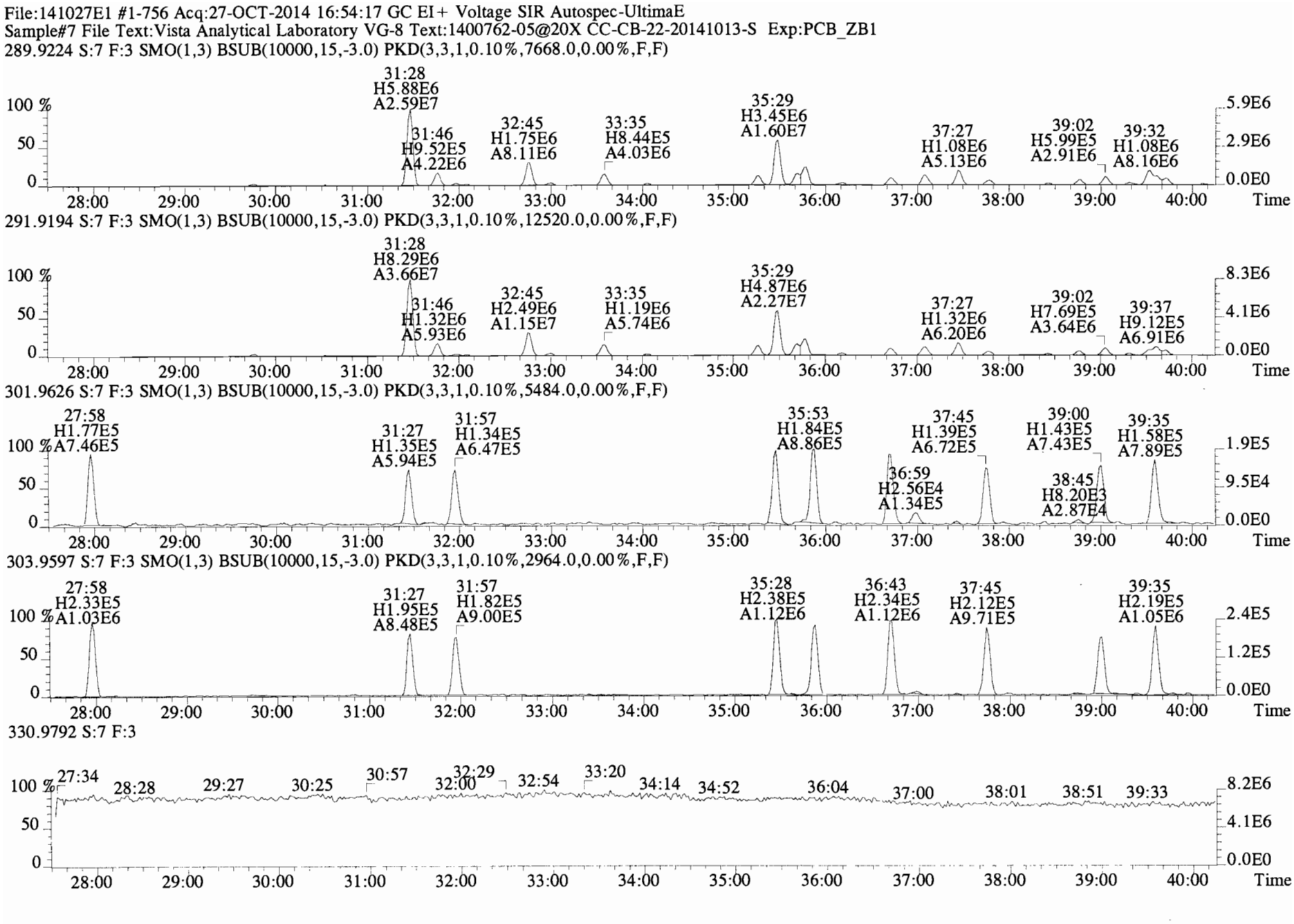

File:141027E1 #1-756 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
255.9613 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3748.0,0.00%,F,F)
29:05 H7.16E4 A3.31E5
29:42 H3.84E4 A2.11E5
30:08 H1.74E4 A6.74E4
31:28 H4.12E5 A1.79E6
31:46 H6.29E4 A2.94E5
32:46 H1.52E5 A7.11E5
33:53 H3.16E4 A1.22E5
257.9584 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3472.0,0.00%,F,F)
28:58 H7.86E4 A3.37E5
29:43 H4.63E4 A2.47E5
30:08 H2.54E4 A1.04E5
31:28 H3.68E5 A1.60E6
31:46 H4.56E4 A1.96E5
32:45 H1.41E5 A6.59E5
268.0016 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,55596.0,0.00%,F,F)
29:04 H1.05E5 A4.06E5
29:09 H1.80E4 A2.43E4
269.9986 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,66020.0,0.00%,F,F)
32:55 H6.13E4 A2.27E5
100 %
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
Time
4.2E5
2.1E5
0.0E0
3.7E5
1.9E5
1.6E5
7.9E4
1.5E5
7.6E4

File:141027E1 #1-756 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
268.0016 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,55596.0,0.00%,F,F)

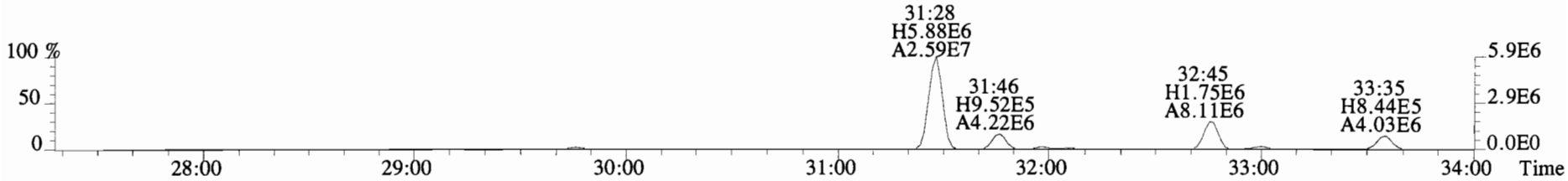


269.9986 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,66020.0,0.00%,F,F)

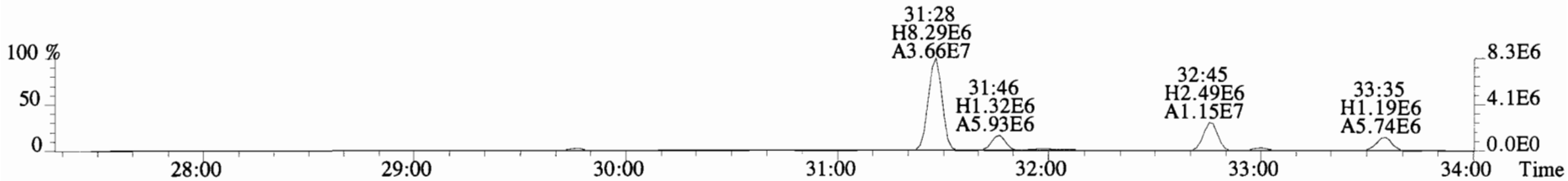



File:141027E1 #1-756 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7668.0,0.00%,F,F)
31:28 H5.88E6 A2.59E7
31:46 H9.52E5 A4.22E6
32:45 H1.75E6 A8.11E6
33:35 H8.44E5 A4.03E6
35:29 H3.45E6 A1.60E7
37:27 H1.08E6 A5.13E6
39:02 H5.99E5 A2.91E6
39:32 H1.08E6 A8.16E6
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12520.0,0.00%,F,F)
31:28 H8.29E6 A3.66E7
31:46 H1.32E6 A5.93E6
32:45 H2.49E6 A1.15E7
33:35 H1.19E6 A5.74E6
35:29 H4.87E6 A2.27E7
37:27 H1.32E6 A6.20E6
39:02 H7.69E5 A3.64E6
39:37 H9.12E5 A6.91E6
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5484.0,0.00%,F,F)
27:58 H1.77E5 A7.46E5
31:27 H1.35E5 A5.94E5
31:57 H1.34E5 A6.47E5
35:53 H1.84E5 A8.86E5
36:59 H2.56E4 A1.34E5
37:45 H1.39E5 A6.72E5
38:45 H8.20E3 A2.87E4
39:00 H1.43E5 A7.43E5
39:35 H1.58E5 A7.89E5
303.9597 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2964.0,0.00%,F,F)
27:58 H2.33E5 A1.03E6
31:27 H1.95E5 A8.48E5
31:57 H1.82E5 A9.00E5
35:28 H2.38E5 A1.12E6
36:43 H2.34E5 A1.12E6
37:45 H2.12E5 A9.71E5
39:35 H2.19E5 A1.05E6
330.9792 S:7 F:3
27:34
28:28
29:27
30:25
30:57
32:00
32:29
32:54
33:20
34:14
34:52
36:04
37:00
38:01
38:51
39:33
100 %
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
37:00
38:00
39:00
40:00
Time
5.9E6
2.9E6
0.0E0
8.3E6
4.1E6
1.9E5
9.5E4
2.4E5
1.2E5
8.2E6

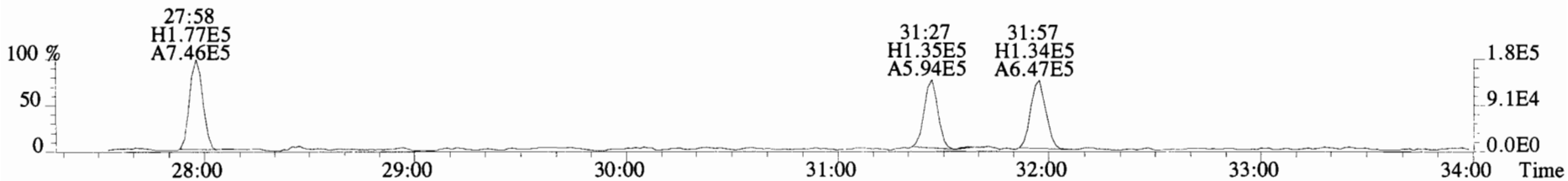
File:141027E1 #1-756 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7668.0,0.00%,F,F)



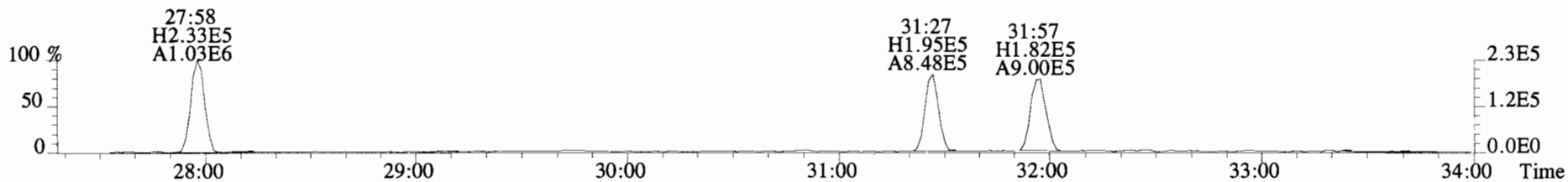
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12520.0,0.00%,F,F)



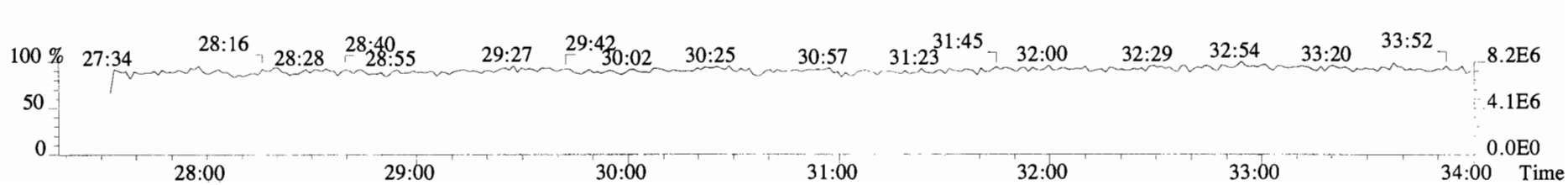
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5484.0,0.00%,F,F)

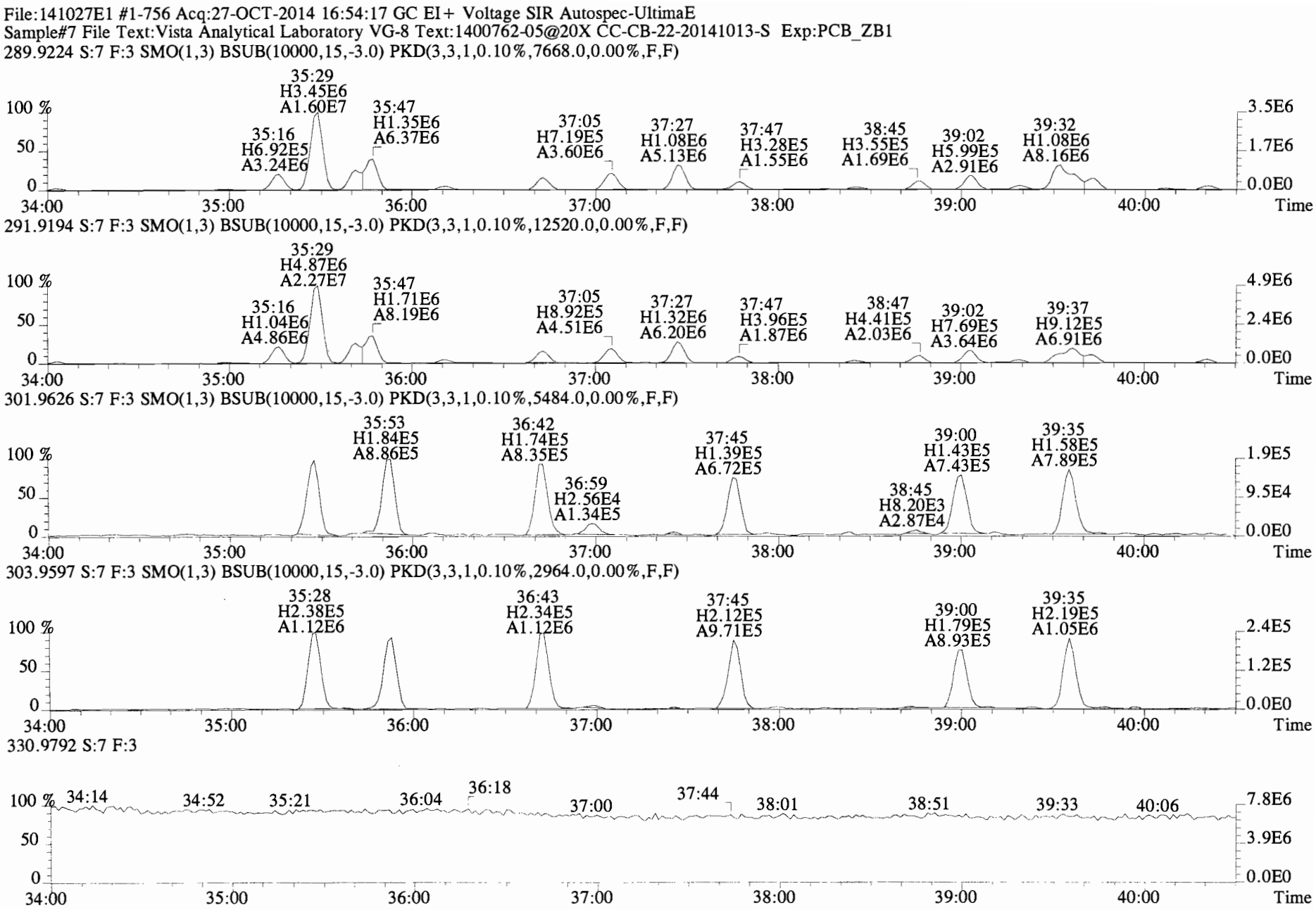


303.9597 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2964.0,0.00%,F,F)

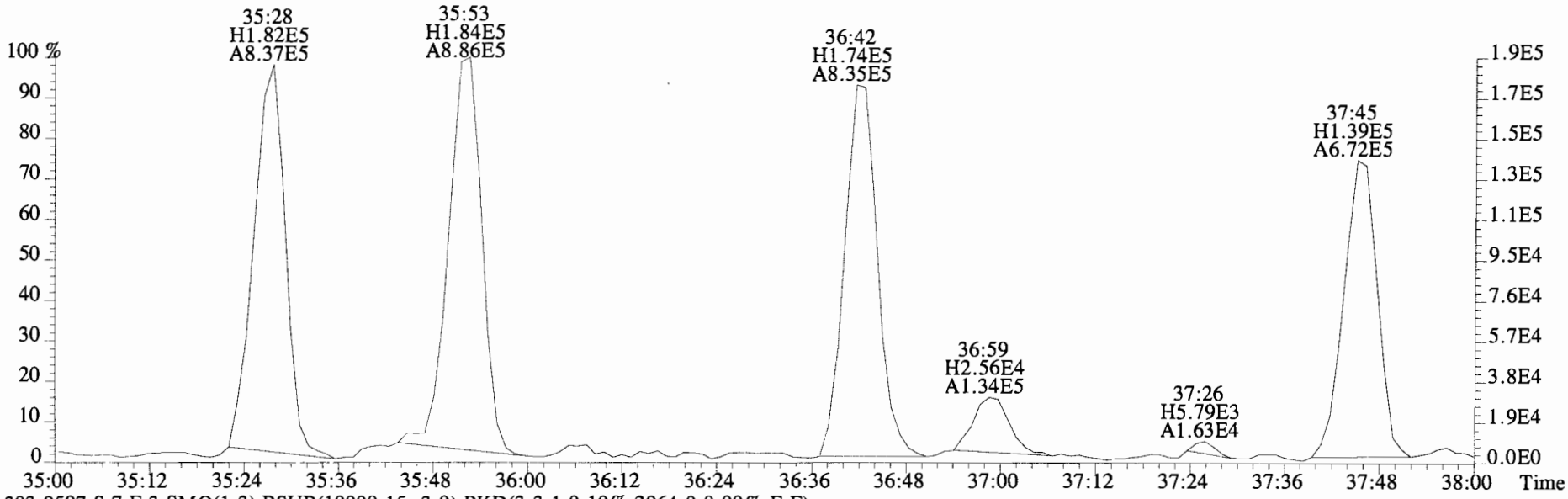


330.9792 S:7 F:3

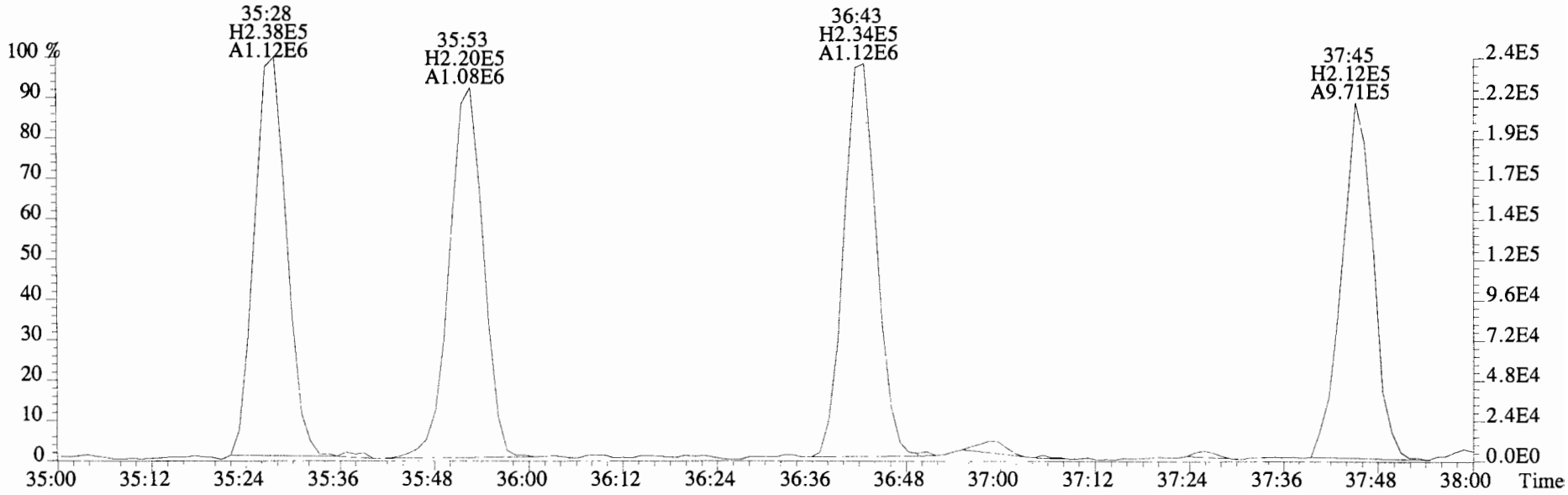



File:141027E1 #1-756 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7668.0,0.00%,F,F)
35:29 H3.45E6 A1.60E7
35:16 H6.92E5 A3.24E6
35:47 H1.35E6 A6.37E6
37:05 H7.19E5 A3.60E6
37:27 H1.08E6 A5.13E6
37:47 H3.28E5 A1.55E6
38:45 H3.55E5 A1.69E6
39:02 H5.99E5 A2.91E6
39:32 H1.08E6 A8.16E6
100 %
50
0
3.5E6
1.7E6
0.0E0
34:00
35:00
36:00
37:00
38:00
39:00
40:00
Time
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12520.0,0.00%,F,F)
35:29 H4.87E6 A2.27E7
35:16 H1.04E6 A4.86E6
35:47 H1.71E6 A8.19E6
37:05 H8.92E5 A4.51E6
37:27 H1.32E6 A6.20E6
37:47 H3.96E5 A1.87E6
38:47 H4.41E5 A2.03E6
39:02 H7.69E5 A3.64E6
39:37 H9.12E5 A6.91E6
100 %
50
0
4.9E6
2.4E6
0.0E0
34:00
35:00
36:00
37:00
38:00
39:00
40:00
Time
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5484.0,0.00%,F,F)
35:53 H1.84E5 A8.86E5
36:42 H1.74E5 A8.35E5
36:59 H2.56E4 A1.34E5
37:45 H1.39E5 A6.72E5
38:45 H8.20E3 A2.87E4
39:00 H1.43E5 A7.43E5
39:35 H1.58E5 A7.89E5
100 %
50
0
1.9E5
9.5E4
0.0E0
34:00
35:00
36:00
37:00
38:00
39:00
40:00
Time
303.9597 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2964.0,0.00%,F,F)
35:28 H2.38E5 A1.12E6
36:43 H2.34E5 A1.12E6
37:45 H2.12E5 A9.71E5
39:00 H1.79E5 A8.93E5
39:35 H2.19E5 A1.05E6
100 %
50
0
2.4E5
1.2E5
0.0E0
34:00
35:00
36:00
37:00
38:00
39:00
40:00
Time
330.9792 S:7 F:3
34:14
34:52
35:21
36:04
36:18
37:00
37:44
38:01
38:51
39:33
40:06
100 %
50
0
7.8E6
3.9E6
0.0E0
34:00
35:00
36:00
37:00
38:00
39:00
40:00
Time

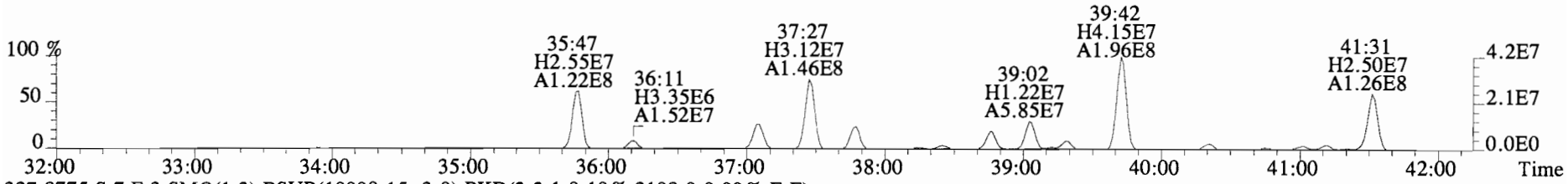
File:141027E1 #1-756 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5484.0,0.00%,F,F)



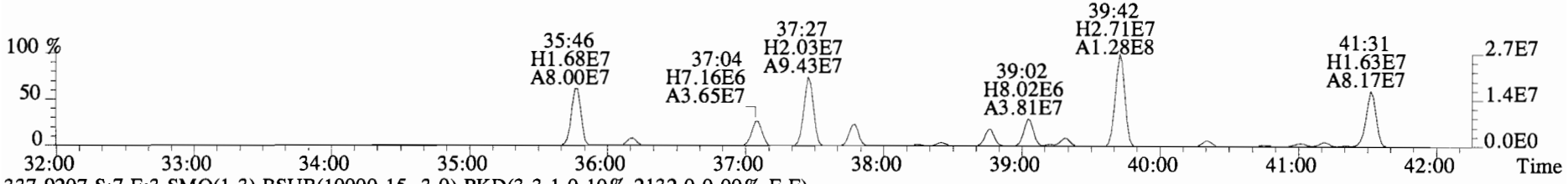
303.9597 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2964.0,0.00%,F,F)



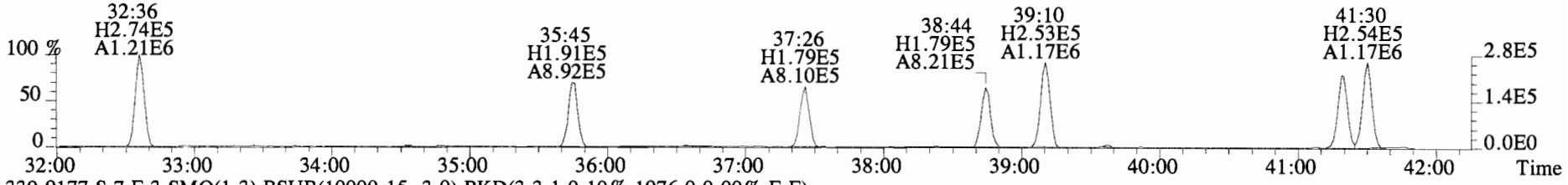
File:141027E1 #1-756 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2412.0,0.00%,F,F)



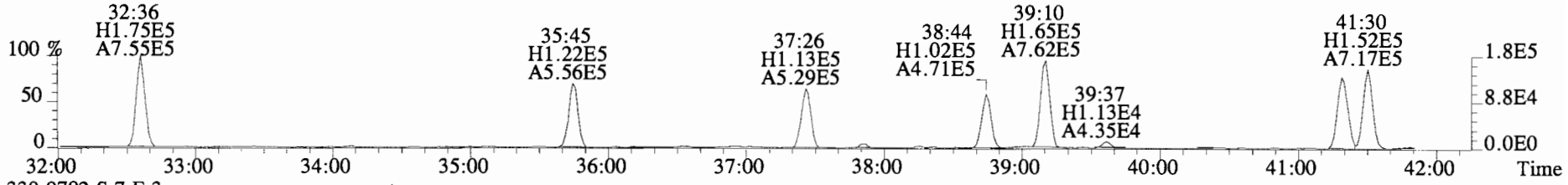
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2108.0,0.00%,F,F)



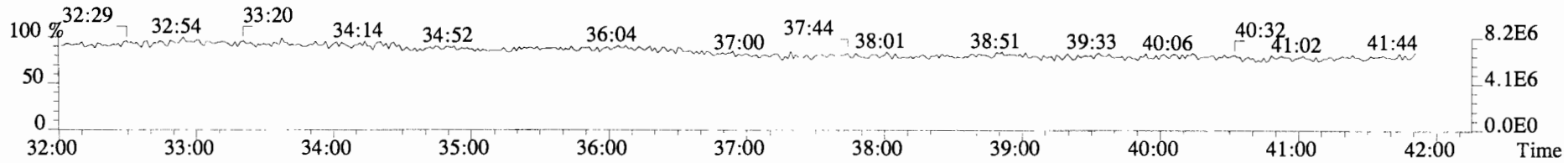
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2132.0,0.00%,F,F)



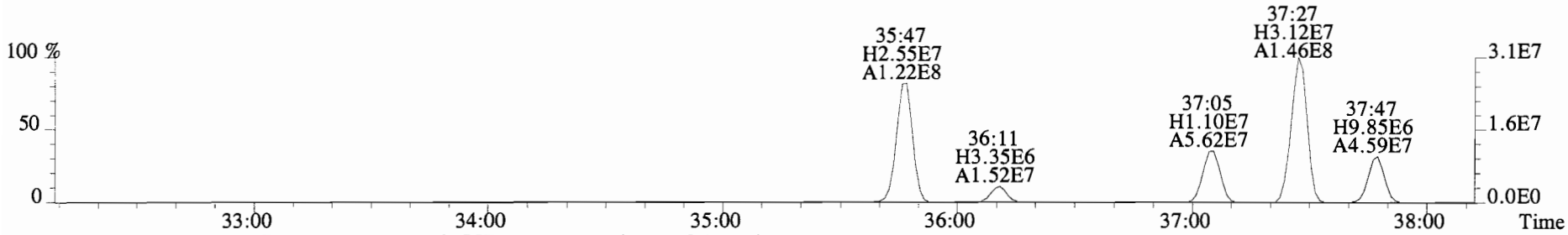
339.9177 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1976.0,0.00%,F,F)



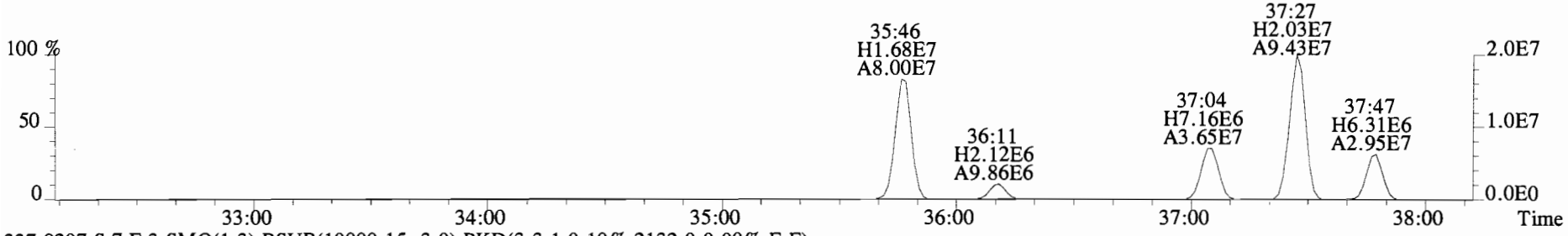
330.9792 S:7 F:3



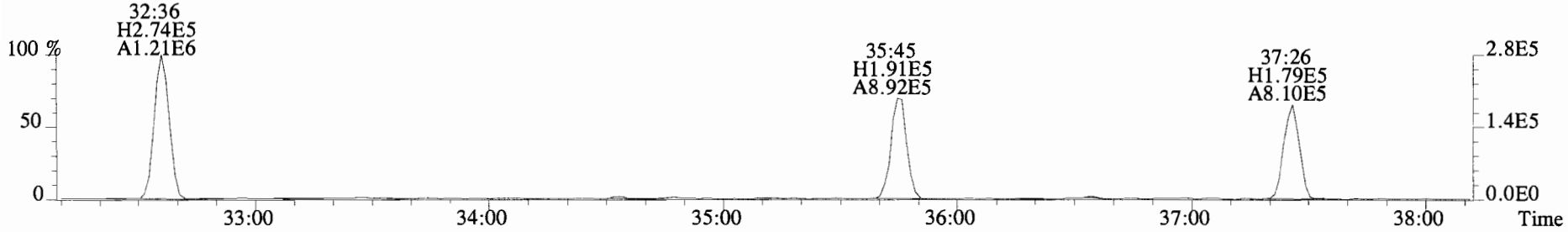
File:141027E1 #1-756 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2412.0,0.00%,F,F)



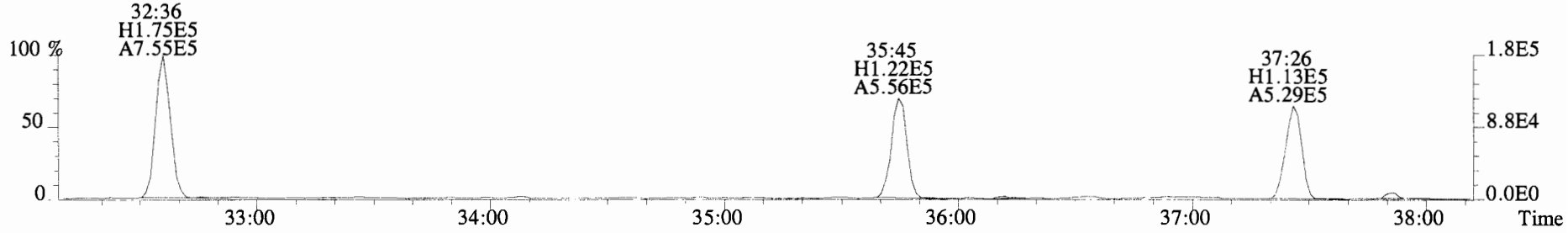
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2108.0,0.00%,F,F)



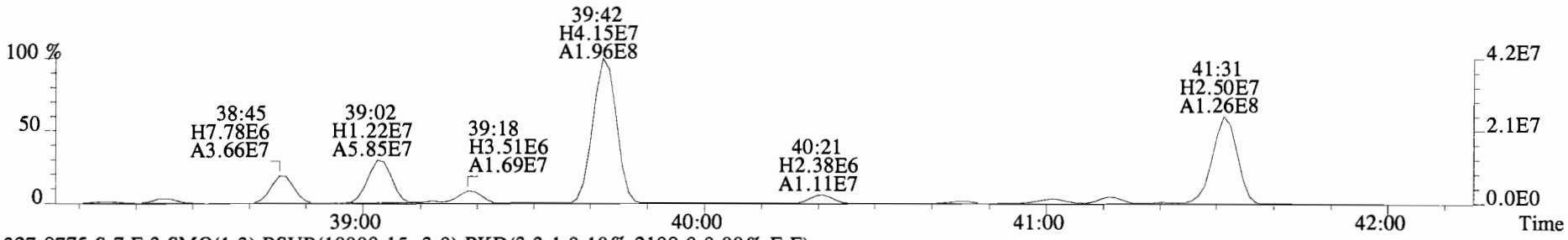
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2132.0,0.00%,F,F)



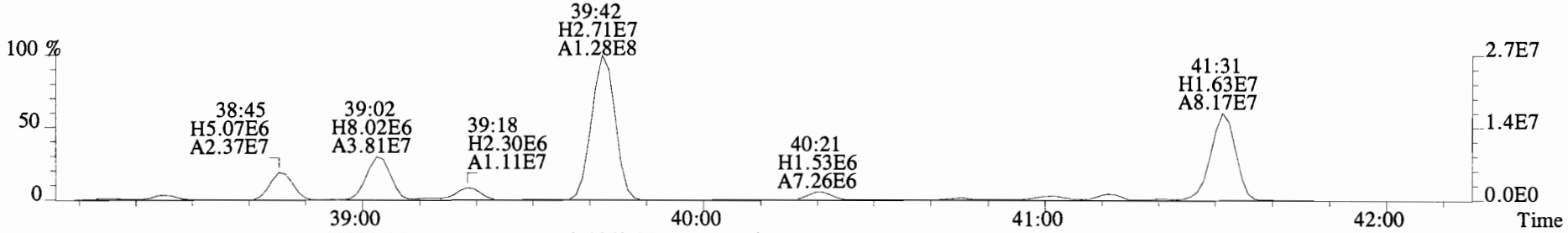
339.9177 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1976.0,0.00%,F,F)



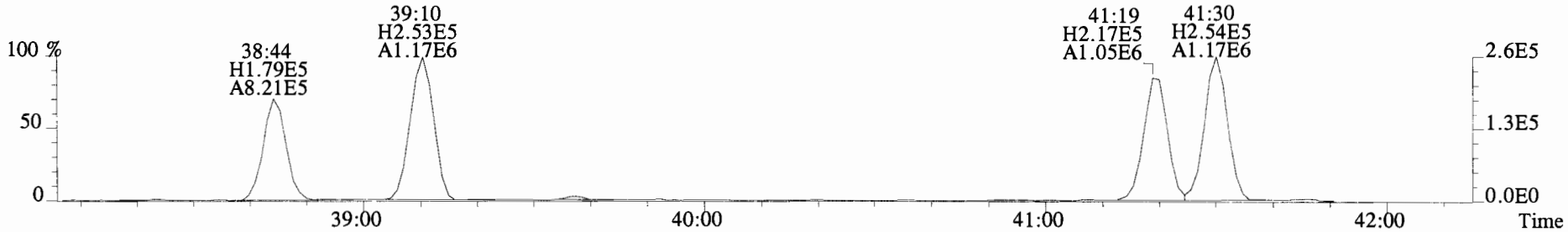
File:141027E1 #1-756 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2412.0,0.00%,F,F)



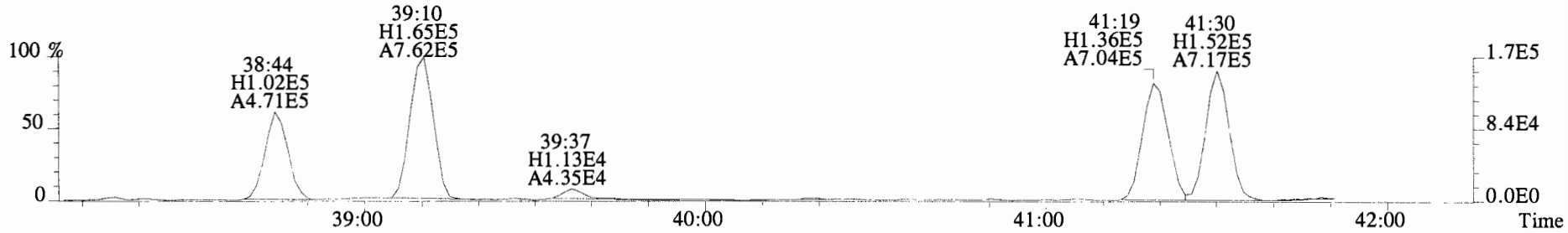
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2108.0,0.00%,F,F)



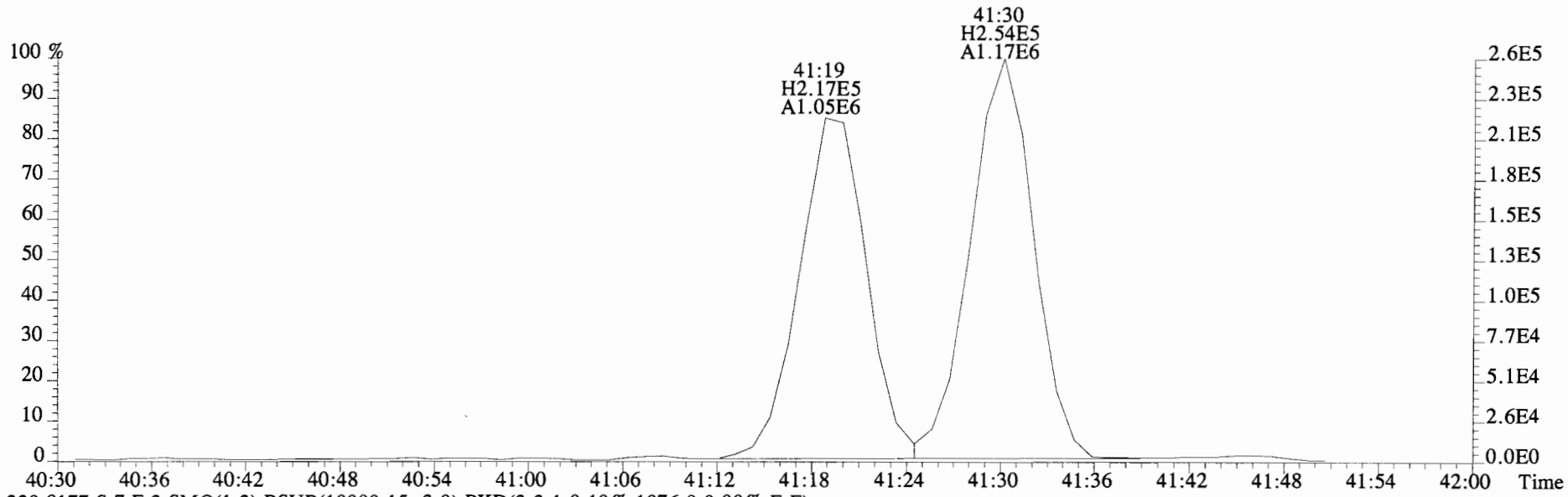
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2132.0,0.00%,F,F)



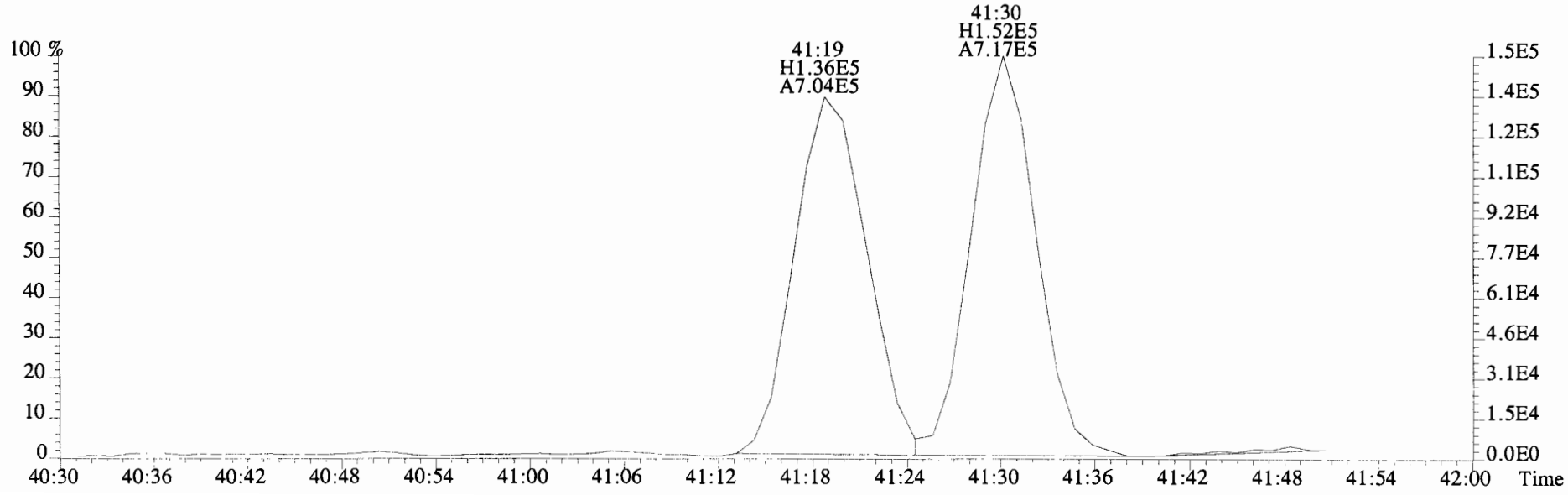
339.9177 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1976.0,0.00%,F,F)



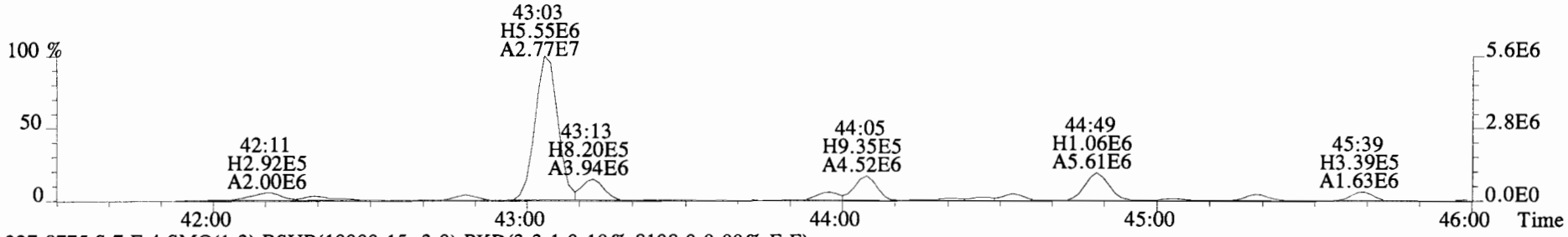
File:141027E1 #1-756 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2132.0,0.00%,F,F)



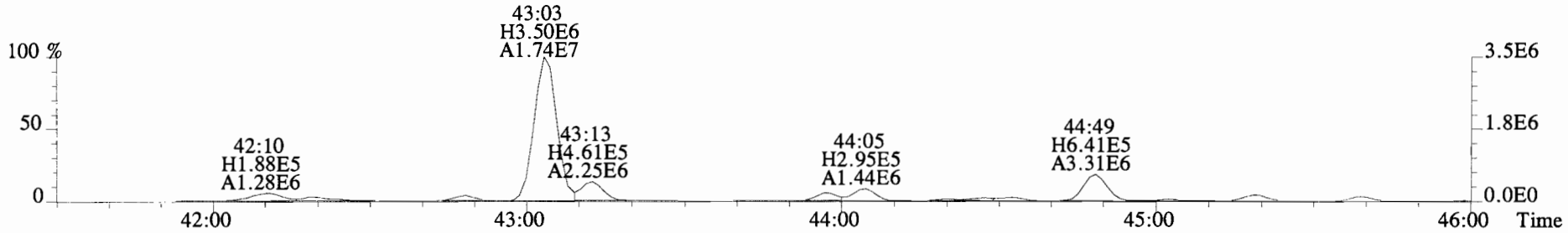
339.9177 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1976.0,0.00%,F,F)



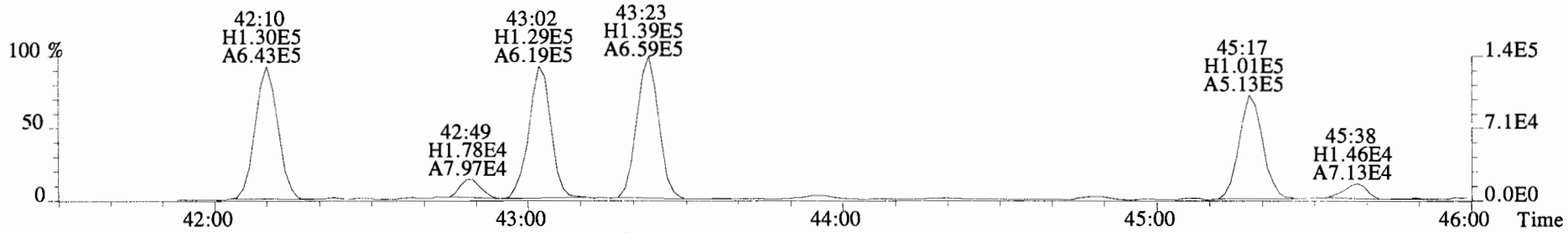
File:141027E1 #1-552 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
325.8804 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14200.0,0.00%,F,F)



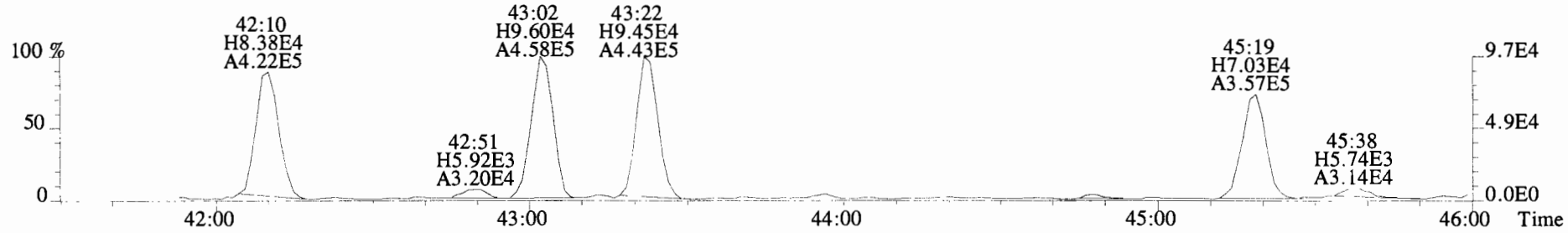
327.8775 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8108.0,0.00%,F,F)



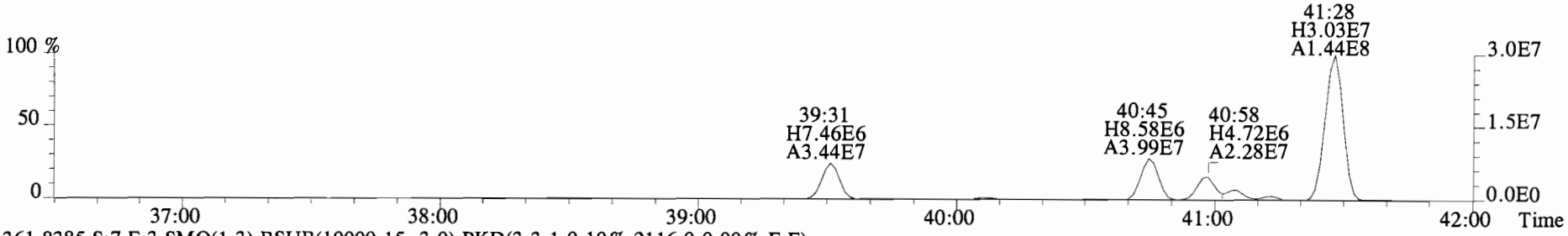
337.9207 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2152.0,0.00%,F,F)



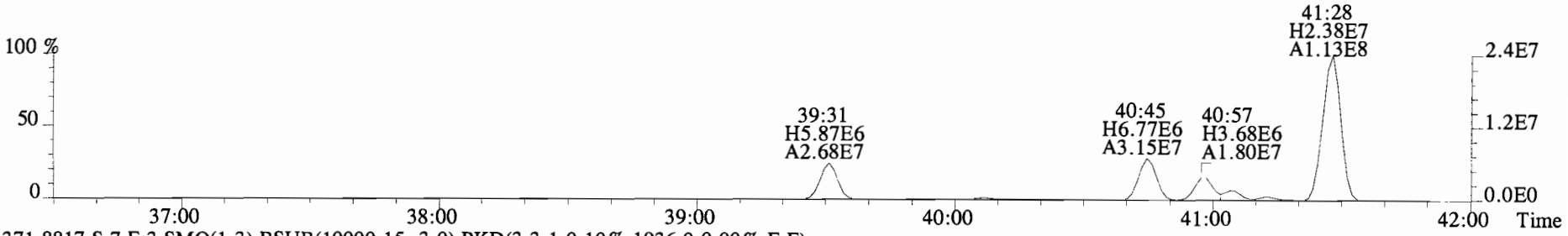
339.9177 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1980.0,0.00%,F,F)



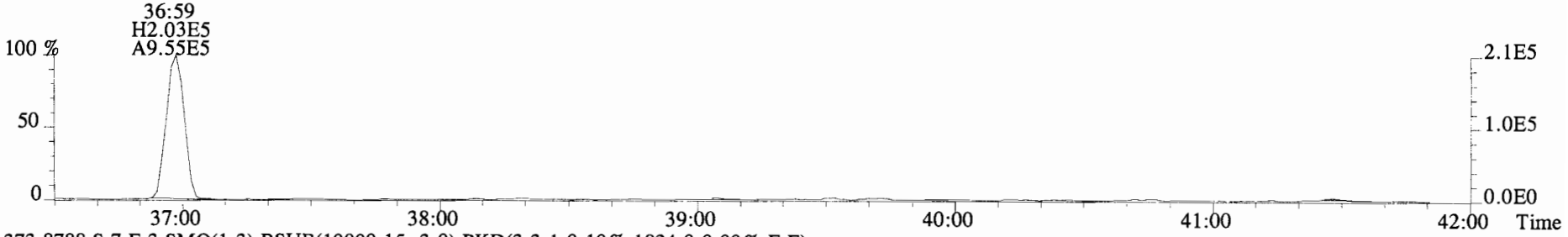
File:141027E1 #1-756 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1940.0,0.00%,F,F)



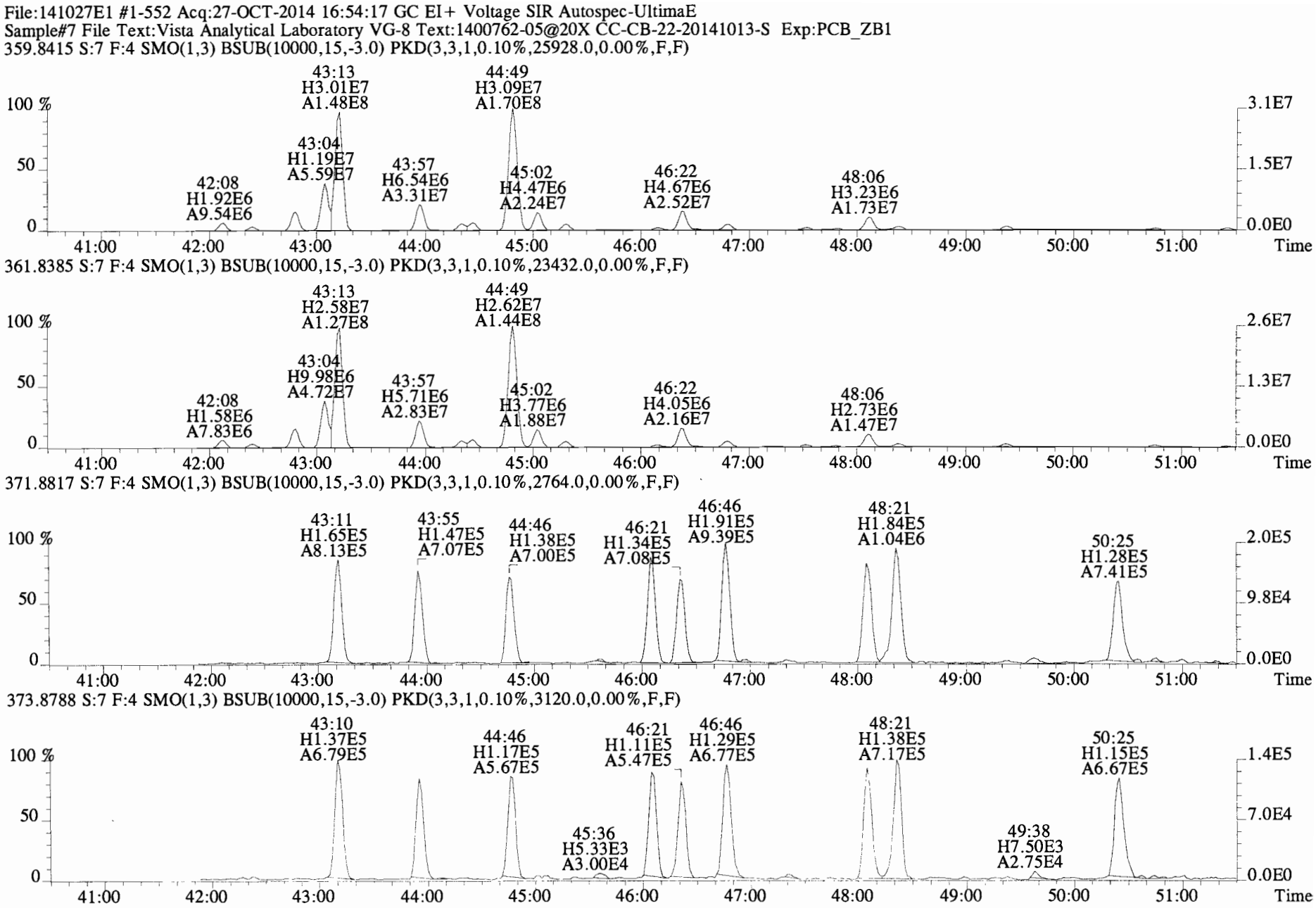
361.8385 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2116.0,0.00%,F,F)



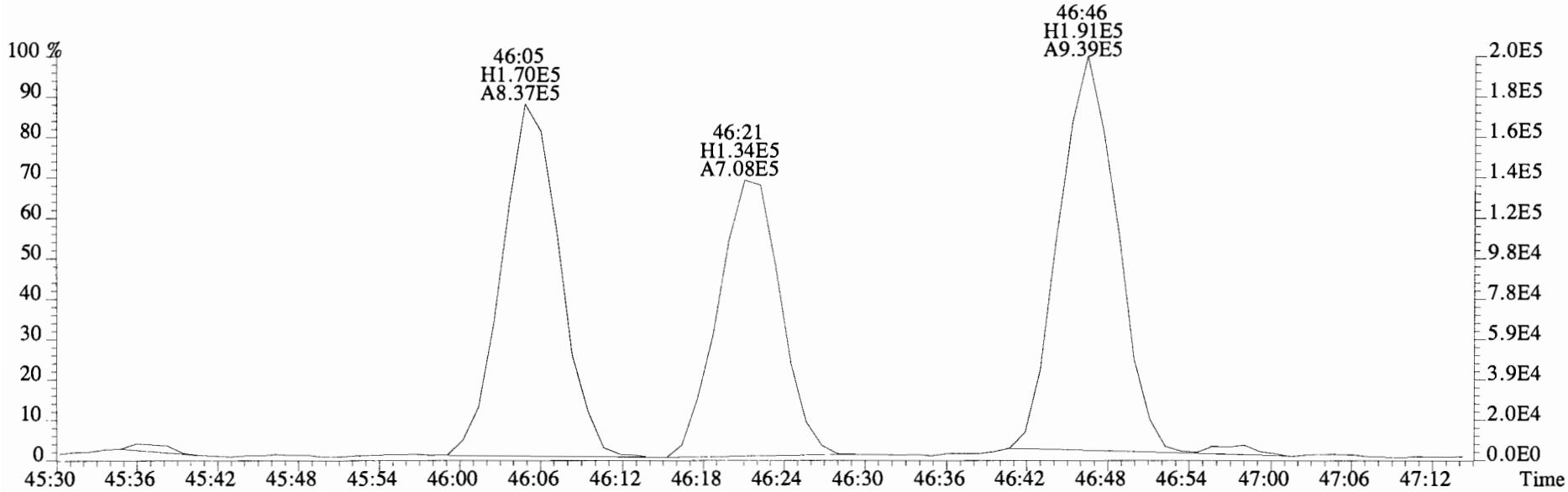
371.8817 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1936.0,0.00%,F,F)



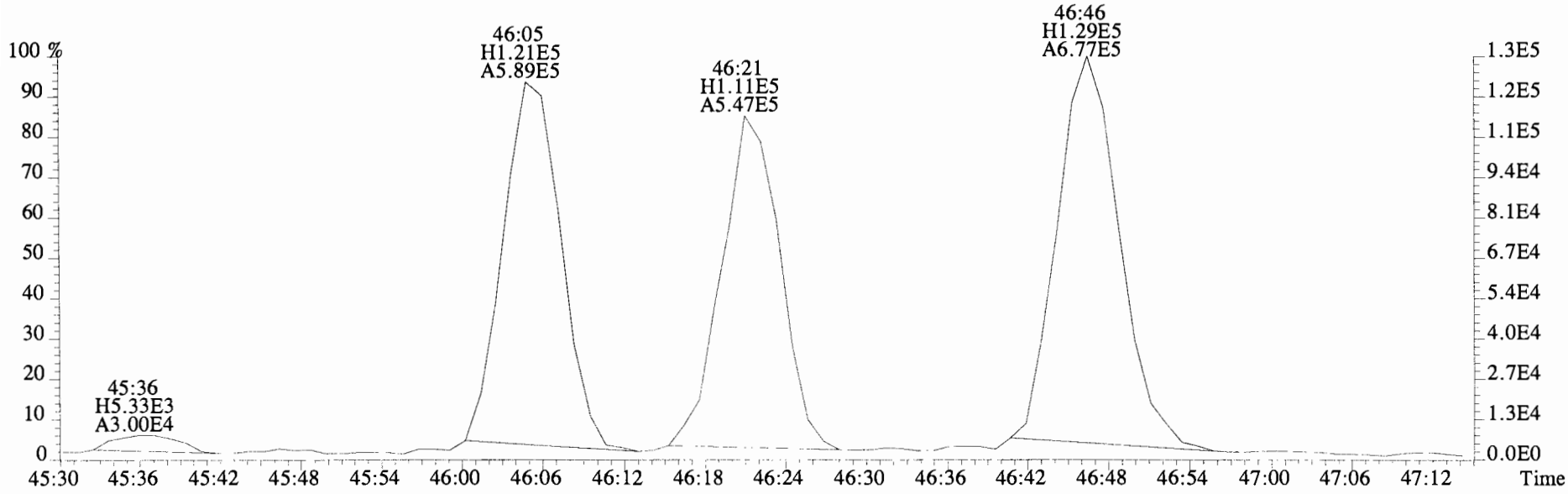
373.8788 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1824.0,0.00%,F,F)


File:141027E1 #1-552 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25928.0,0.00%,F,F)
43:13 H3.01E7 A1.48E8
44:49 H3.09E7 A1.70E8
43:04 H1.19E7 A5.59E7
43:57 H6.54E6 A3.31E7
42:08 H1.92E6 A9.54E6
45:02 H4.47E6 A2.24E7
46:22 H4.67E6 A2.52E7
48:06 H3.23E6 A1.73E7
100 %
50
0
3.1E7
1.5E7
0.0E0
41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 51:00 Time
361.8385 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,23432.0,0.00%,F,F)
43:13 H2.58E7 A1.27E8
44:49 H2.62E7 A1.44E8
43:04 H9.98E6 A4.72E7
43:57 H5.71E6 A2.83E7
42:08 H1.58E6 A7.83E6
45:02 H3.77E6 A1.88E7
46:22 H4.05E6 A2.16E7
48:06 H2.73E6 A1.47E7
100 %
50
0
2.6E7
1.3E7
0.0E0
41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 51:00 Time
371.8817 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2764.0,0.00%,F,F)
43:11 H1.65E5 A8.13E5
43:55 H1.47E5 A7.07E5
44:46 H1.38E5 A7.00E5
46:21 H1.34E5 A7.08E5
46:46 H1.91E5 A9.39E5
48:21 H1.84E5 A1.04E6
50:25 H1.28E5 A7.41E5
100 %
50
0
2.0E5
9.8E4
0.0E0
41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 51:00 Time
373.8788 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3120.0,0.00%,F,F)
43:10 H1.37E5 A6.79E5
44:46 H1.17E5 A5.67E5
46:21 H1.11E5 A5.47E5
46:46 H1.29E5 A6.77E5
48:21 H1.38E5 A7.17E5
50:25 H1.15E5 A6.67E5
45:36 H5.33E3 A3.00E4
49:38 H7.50E3 A2.75E4
100 %
50
0
1.4E5
7.0E4
0.0E0
41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 51:00 Time

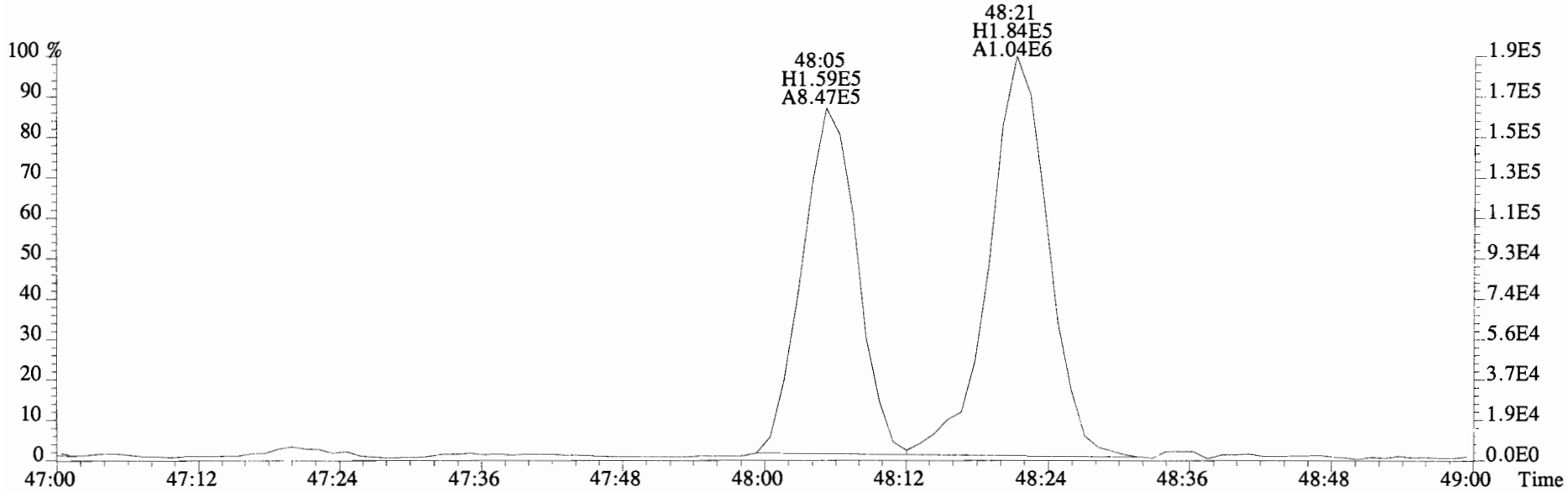
File:141027E1 #1-552 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
371.8817 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2764.0,0.00%,F,F)



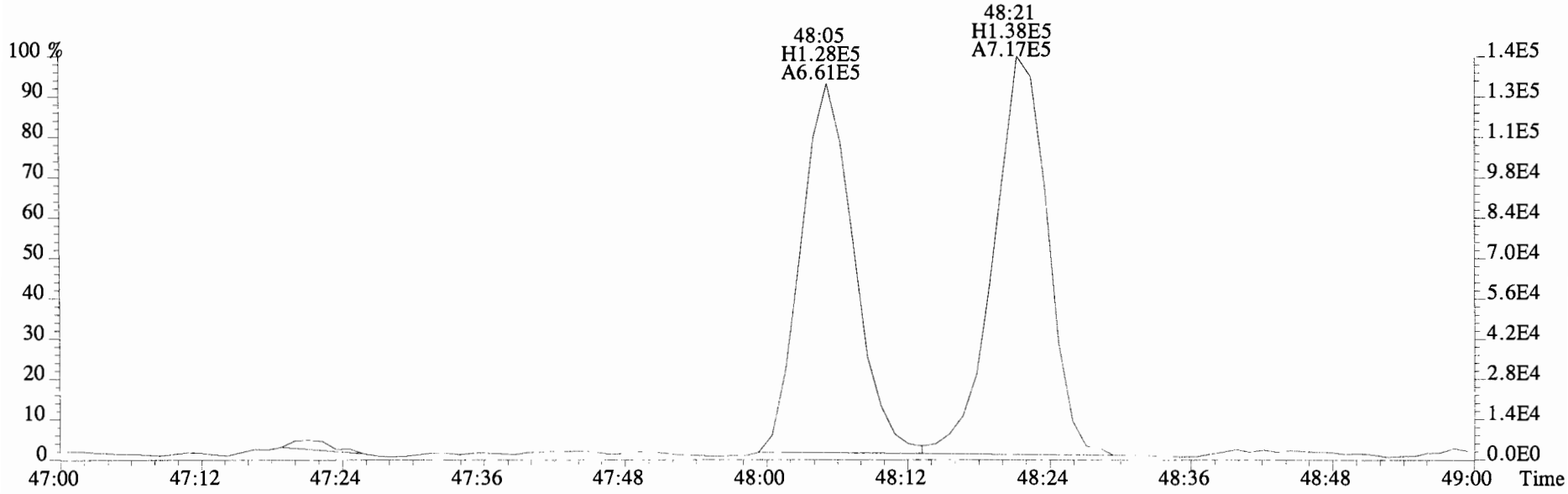
373.8788 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3120.0,0.00%,F,F)



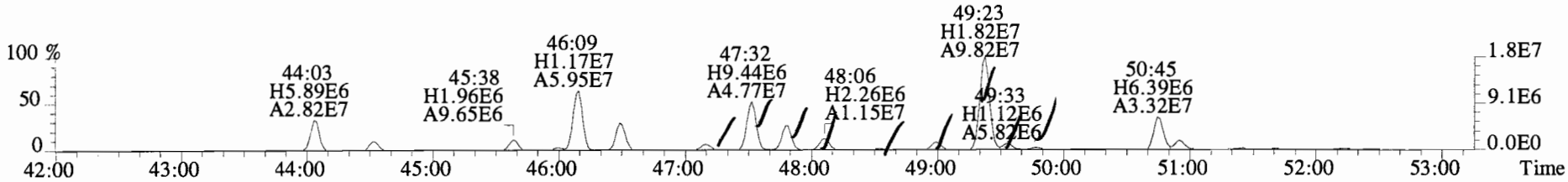
File:141027E1 #1-552 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
371.8817 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2764.0,0.00%,F,F)



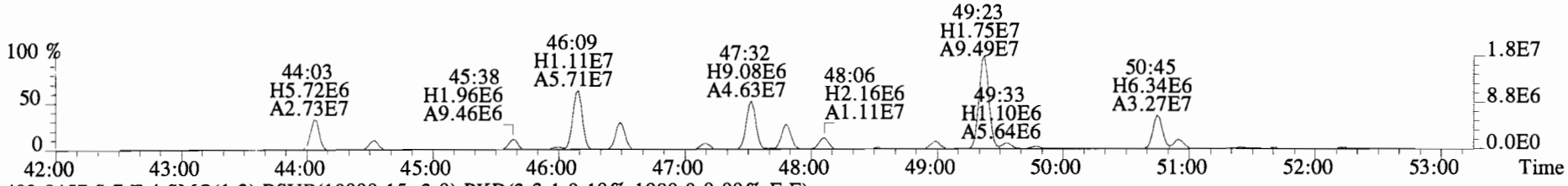
373.8788 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3120.0,0.00%,F,F)



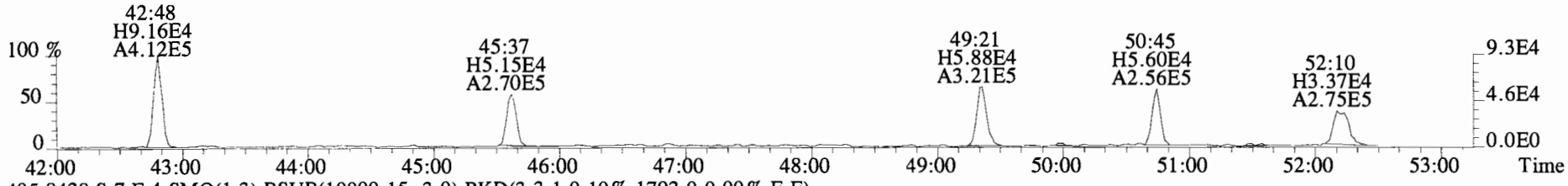
File:141027E1 #1-552 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4156.0,0.00%,F,F)



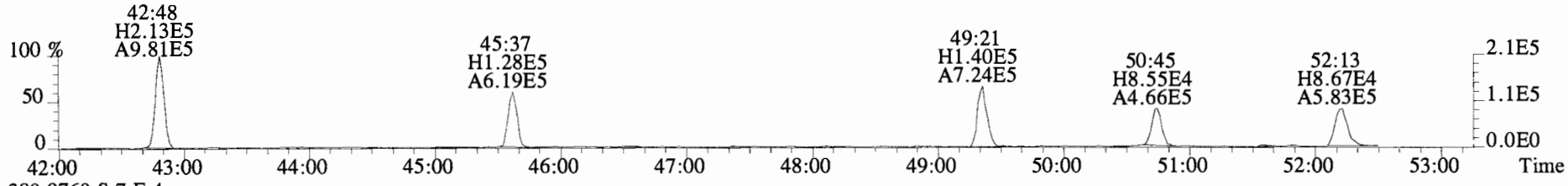
395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5524.0,0.00%,F,F)



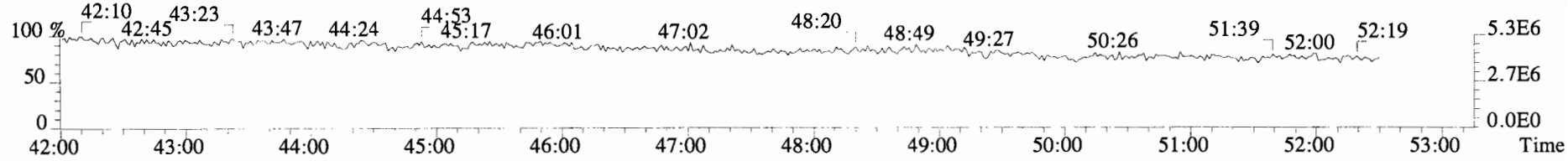
403.8457 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1980.0,0.00%,F,F)



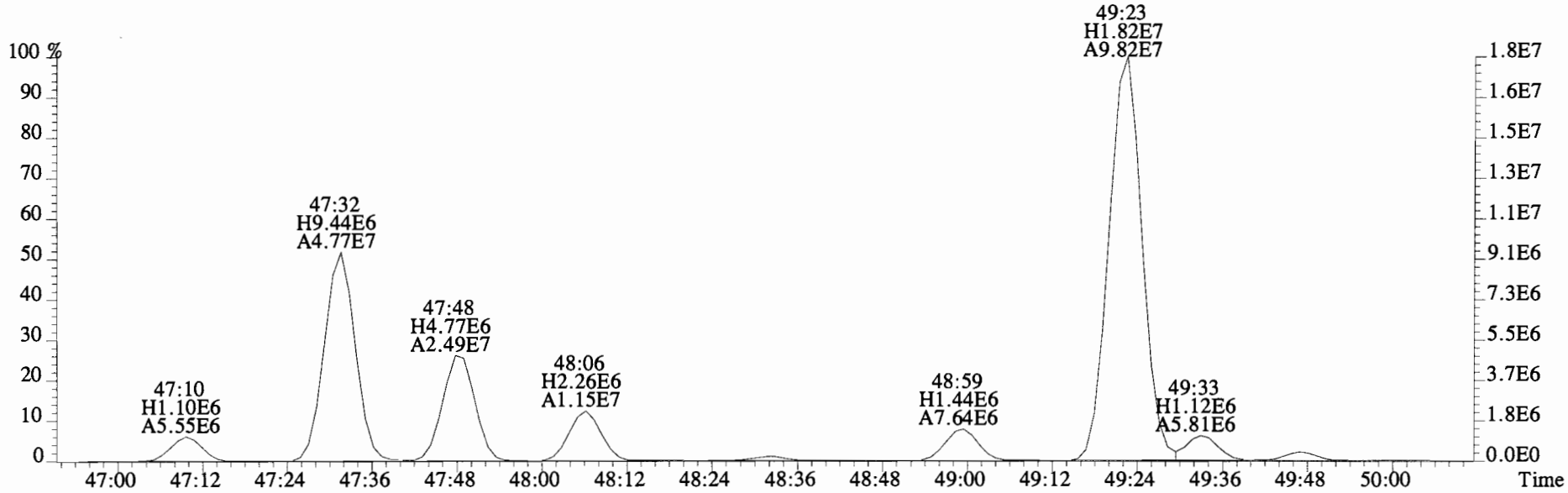
405.8428 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1792.0,0.00%,F,F)



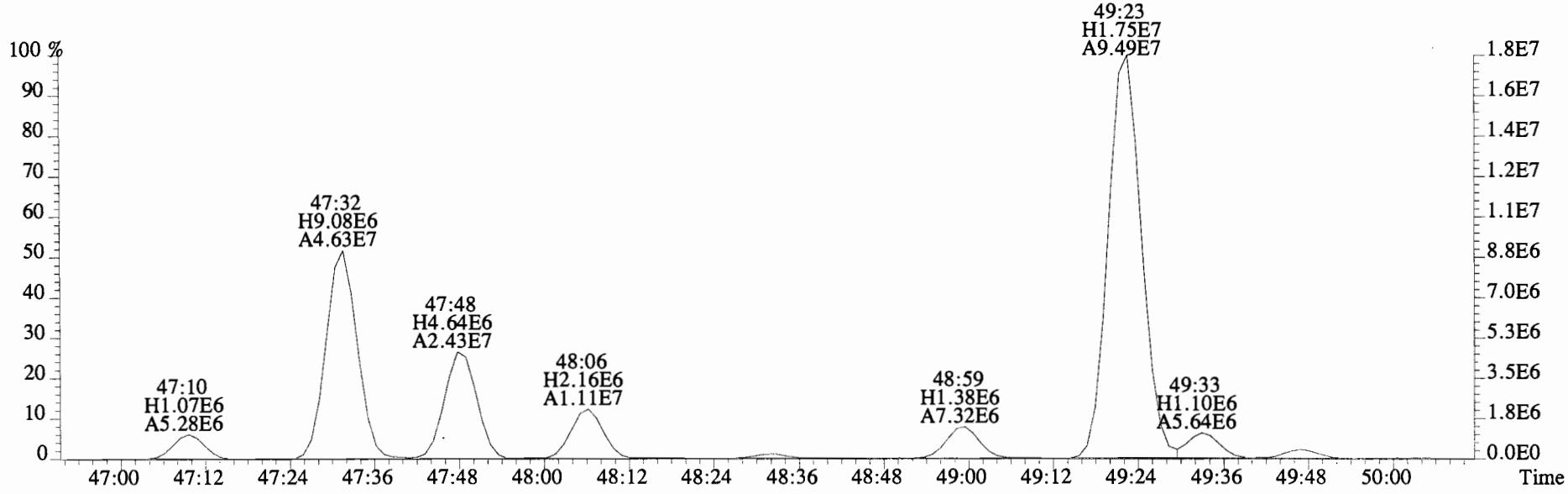
380.9760 S:7 F:4

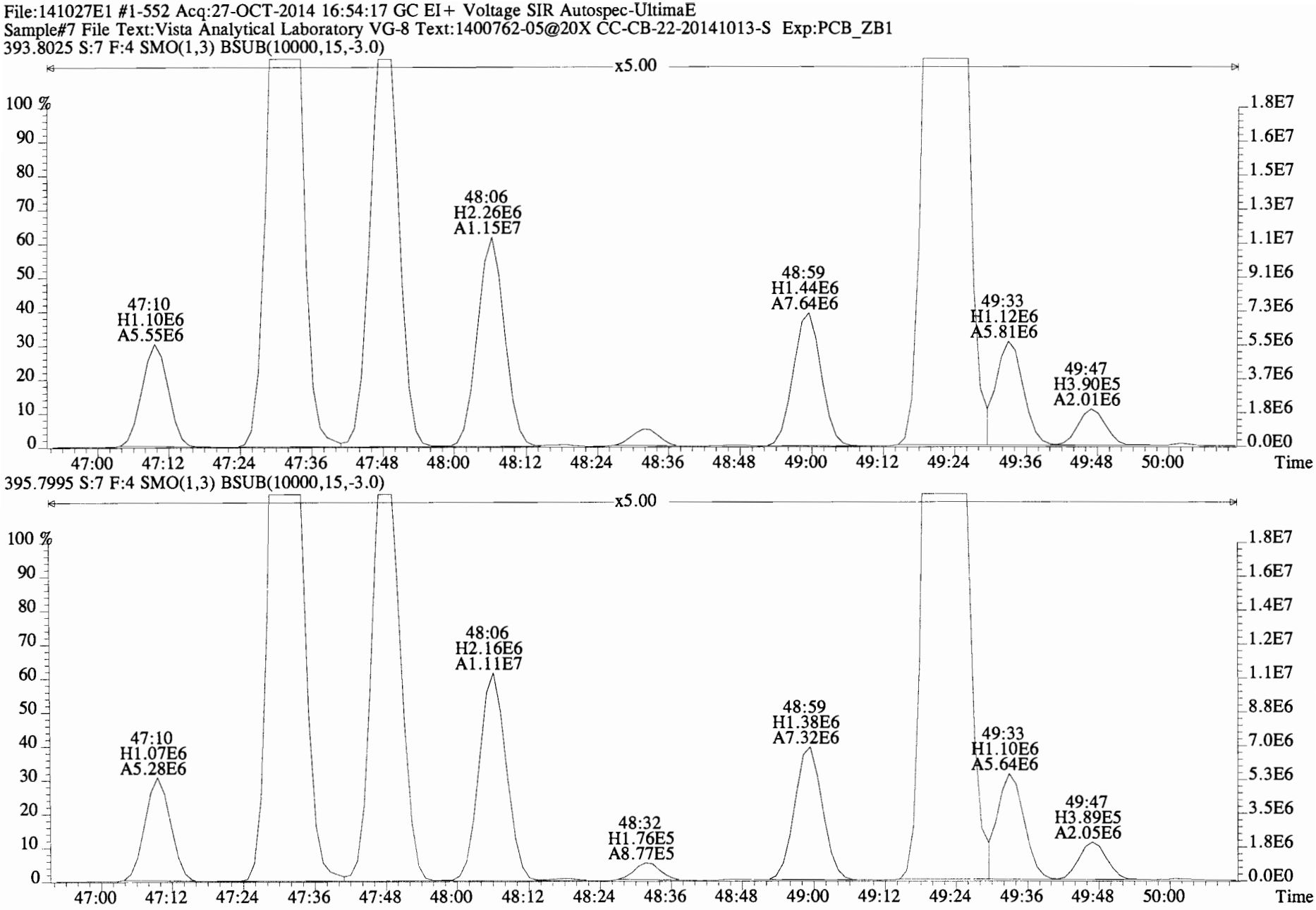


File:141027E1 #1-552 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)

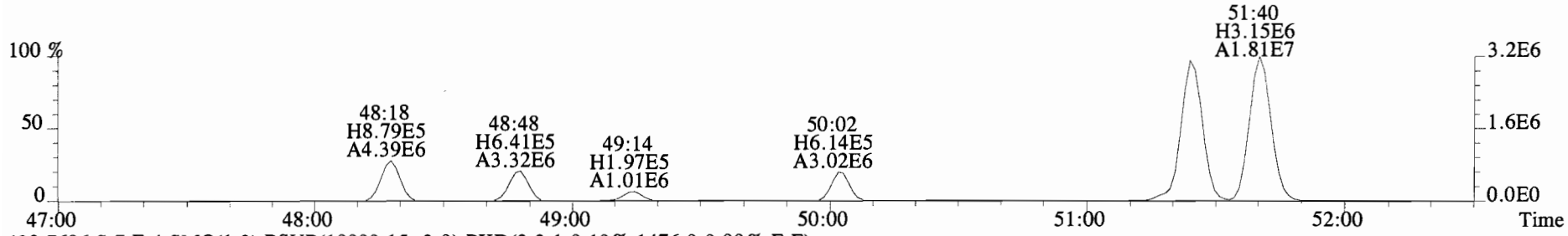


395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)

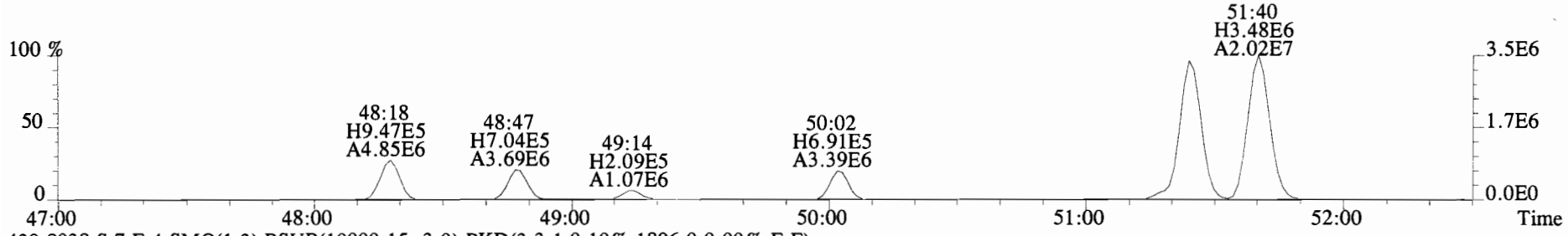



File:141027E1 #1-552 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)
x5.00
47:10
H1.10E6
A5.55E6
48:06
H2.26E6
A1.15E7
48:59
H1.44E6
A7.64E6
49:33
H1.12E6
A5.81E6
49:47
H3.90E5
A2.01E6
395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)
x5.00
47:10
H1.07E6
A5.28E6
48:06
H2.16E6
A1.11E7
48:32
H1.76E5
A8.77E5
48:59
H1.38E6
A7.32E6
49:33
H1.10E6
A5.64E6
49:47
H3.89E5
A2.05E6
100 %
Time

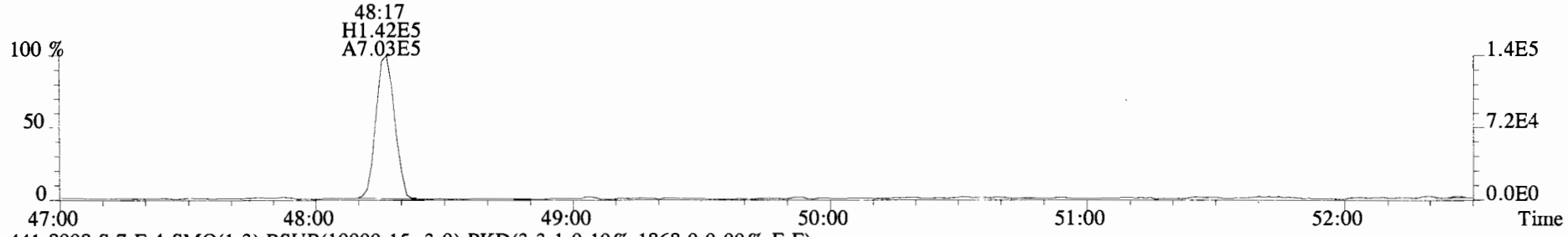
File:141027E1 #1-552 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
427.7635 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1620.0,0.00%,F,F)



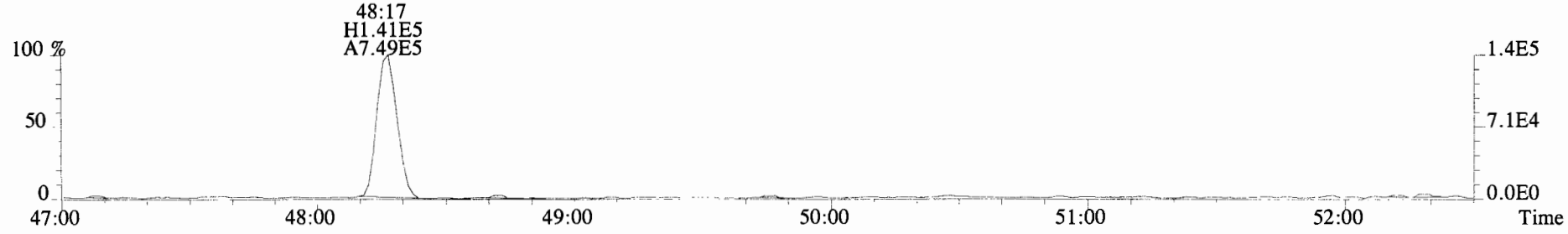
429.7606 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1476.0,0.00%,F,F)



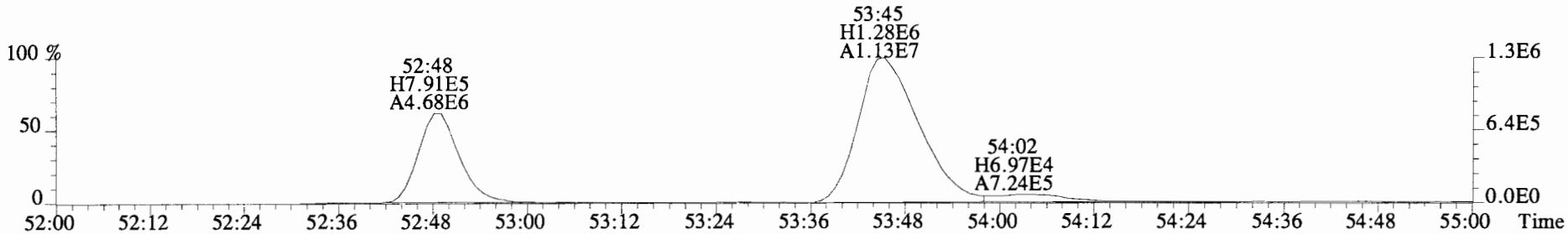
439.8038 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1896.0,0.00%,F,F)



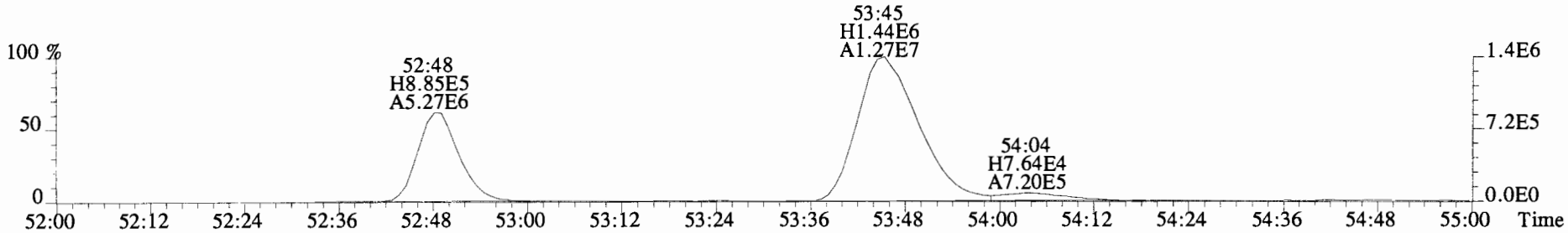
441.8008 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1868.0,0.00%,F,F)



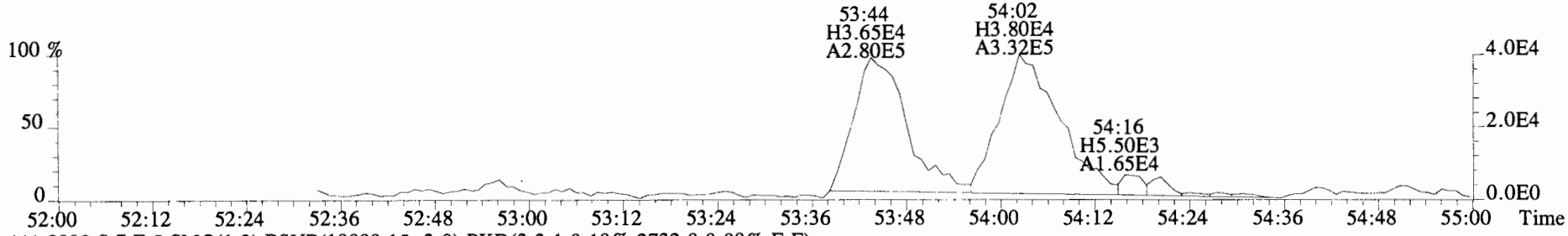
File:141027E1 #1-434 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
427.7635 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2900.0,0.00%,F,F)



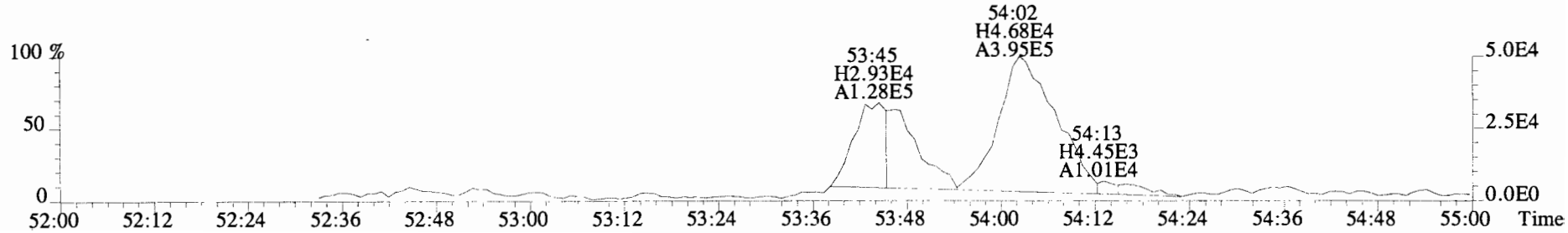
429.7606 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3188.0,0.00%,F,F)



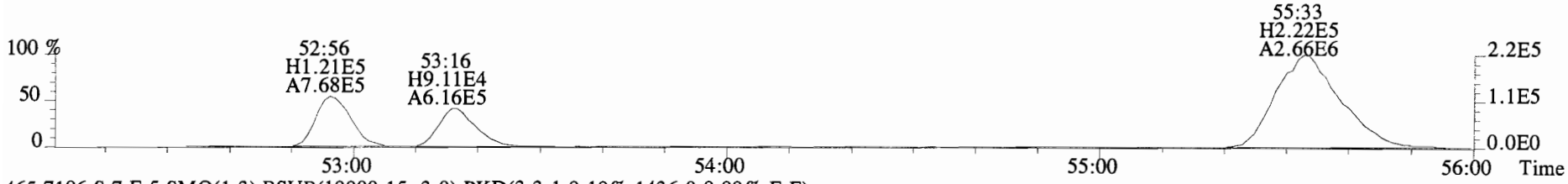
439.8038 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2112.0,0.00%,F,F)



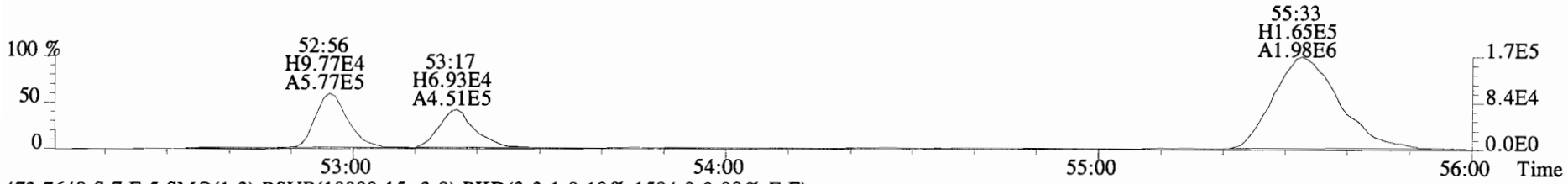
441.8008 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2732.0,0.00%,F,F)



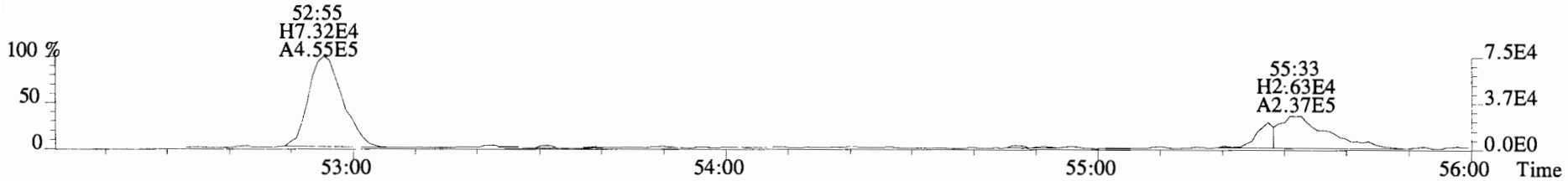
File:141027E1 #1-434 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
463.7216 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1452.0,0.00%,F,F)



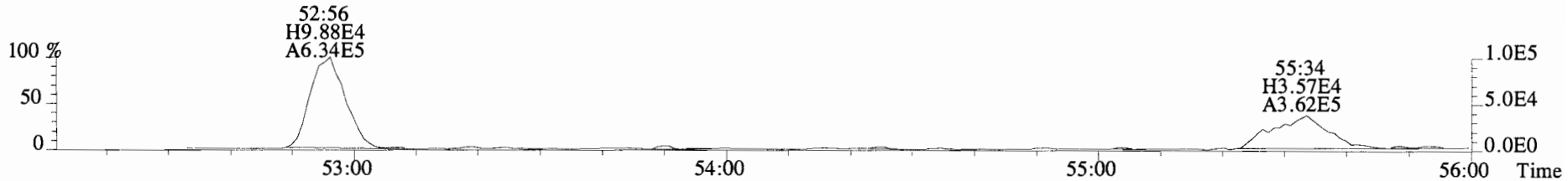
465.7186 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1436.0,0.00%,F,F)



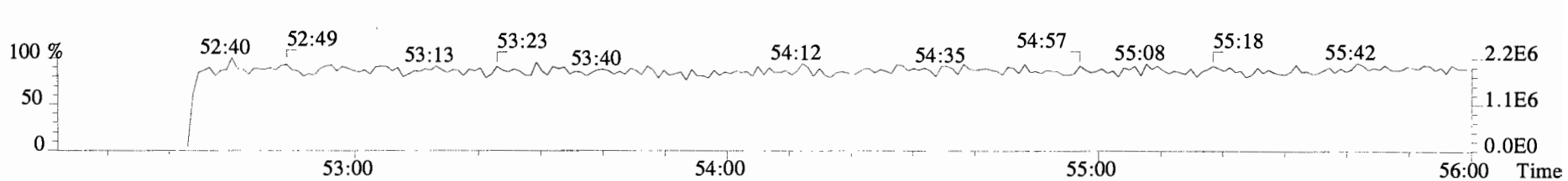
473.7648 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1504.0,0.00%,F,F)



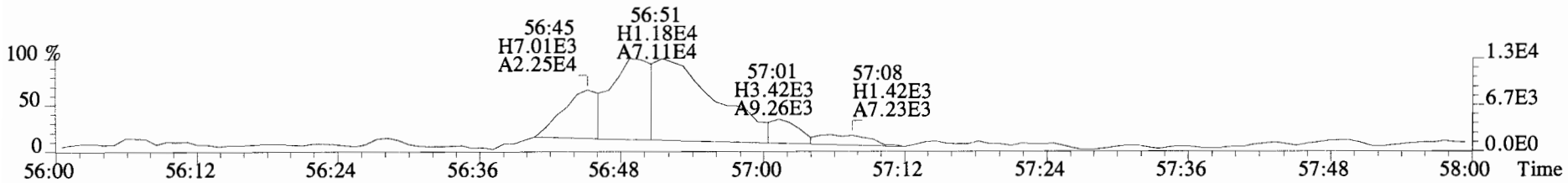
475.7619 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1540.0,0.00%,F,F)



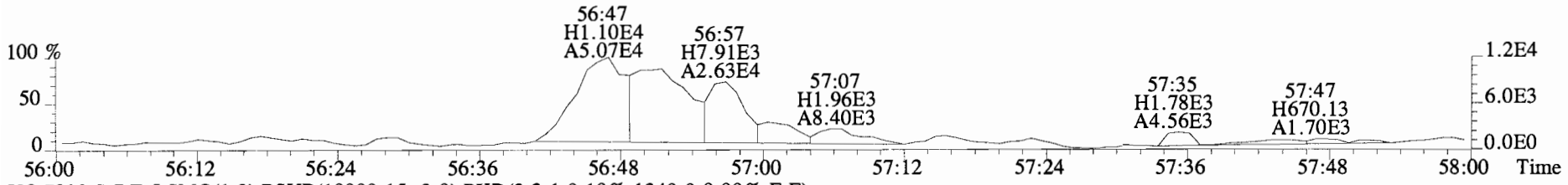
492.9697 S:7 F:5



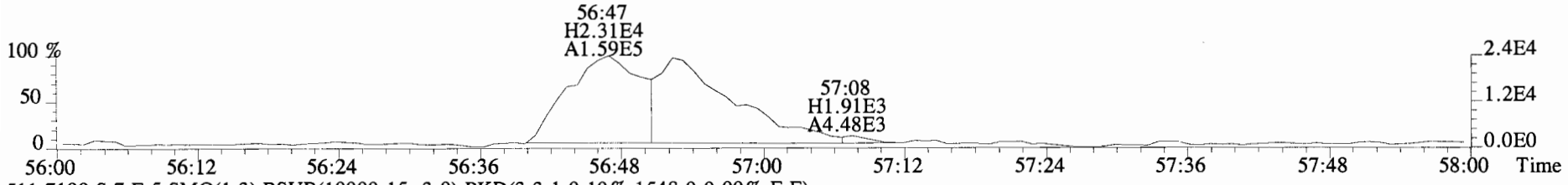
File:141027E1 #1-434 Acq:27-OCT-2014 16:54:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400762-05@20X CC-CB-22-20141013-S Exp:PCB_ZB1
497.6826 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1296.0,0.00%,F,F)



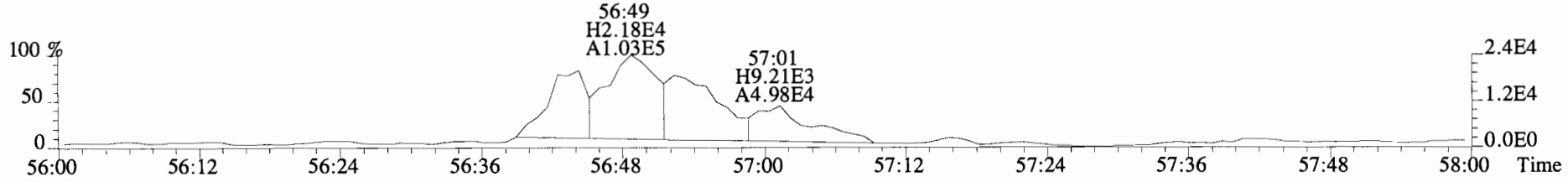
499.6797 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1216.0,0.00%,F,F)



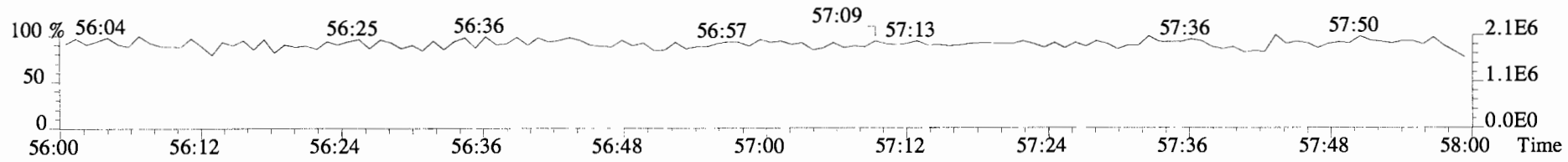
509.7229 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1340.0,0.00%,F,F)



511.7199 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1548.0,0.00%,F,F)



492.9697 S:7 F:5



CONFIRMATION

Name	Resp	RA	RT	RRF	Conc	Rec
13C-1,2,3,4-TCDF	3.57e+07	0.79 y	15:23	1.00	199.7	-
13C-2,3,7,8-TCDF	2.52e+07	0.77 y	17:42	0.89	158.1	79.2
2,3,7,8-TCDF	7.97e+05	0.73 y	17:43	0.92	6.877	

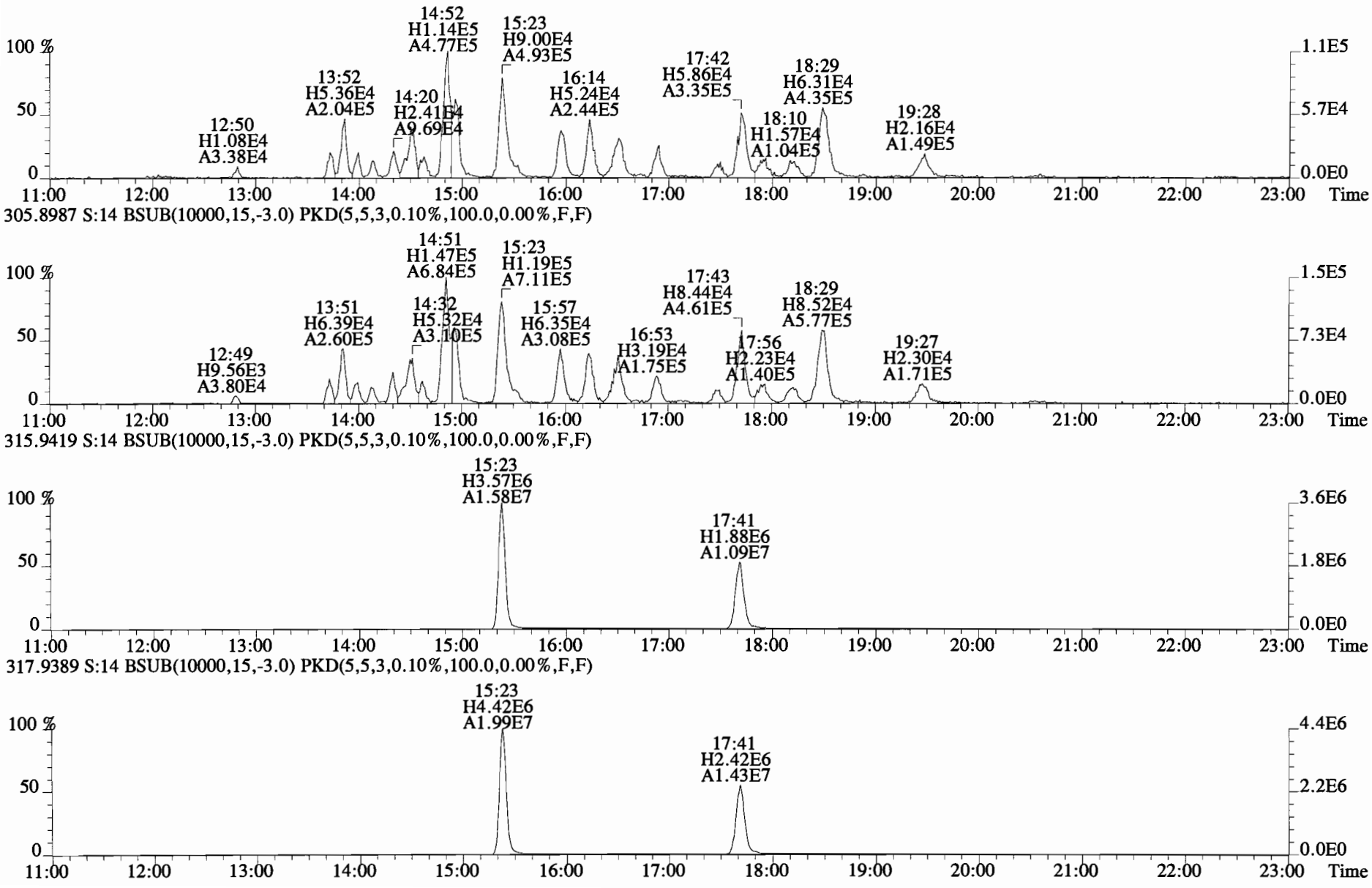
Integrations by Analyst: M1

Date: 10/29/14

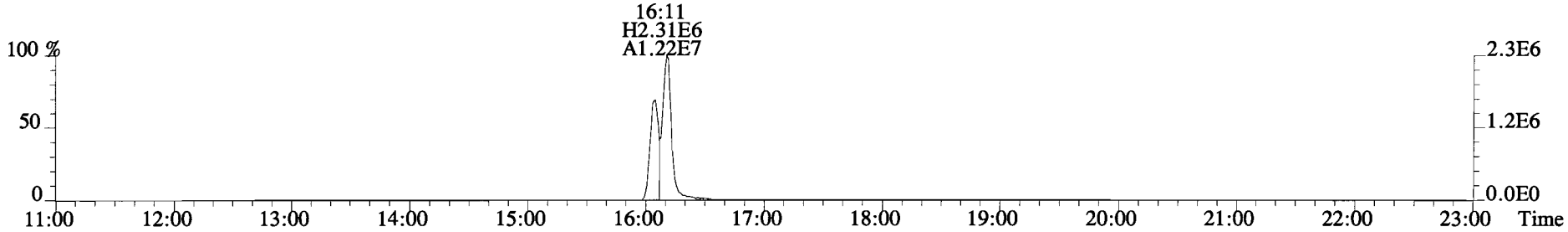
Reviewed by Analyst: [illegible]

Date: 10/29/14

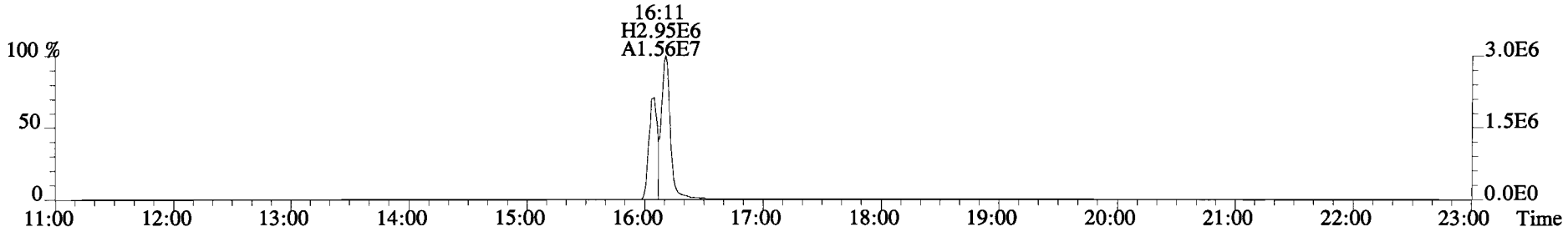
File:141028D1 #1-1684 Acq:28-OCT-2014 17:44:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03RE1 CC-A-01-20141013-S 17.04 Exp:TCDF_DB225



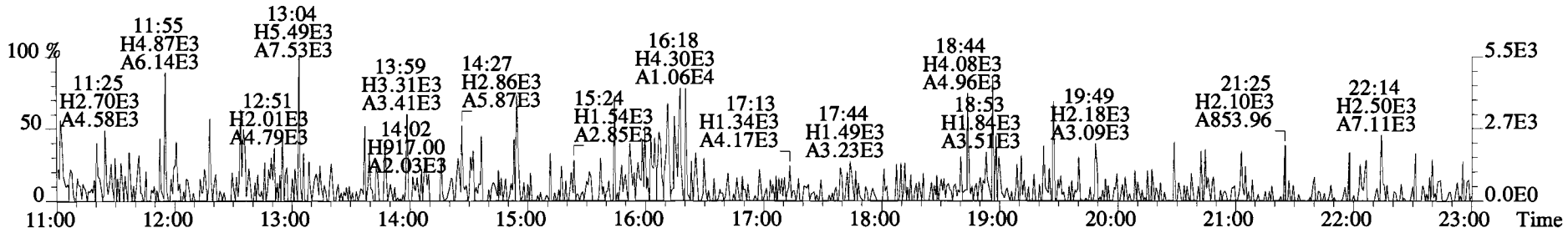
File:141028D1 #1-1684 Acq:28-OCT-2014 17:44:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Vista Analytical Laboratory VG-7 Text:1400762-03RE1 CC-A-01-20141013-S 17.04 Exp:TCDF_DB225
331.9368 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



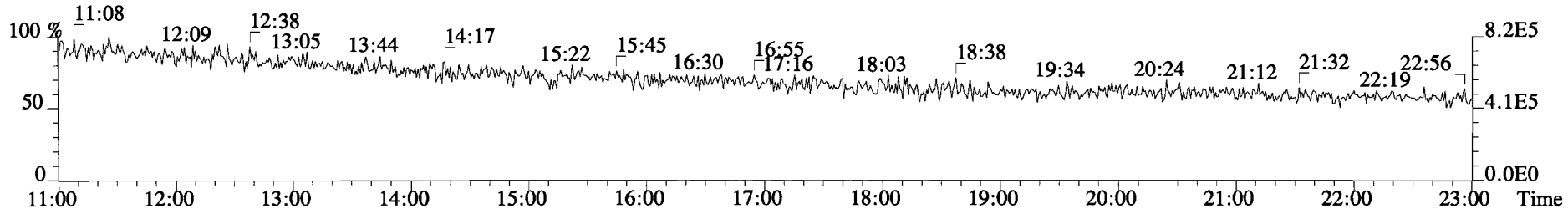
333.9339 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



375.8364 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



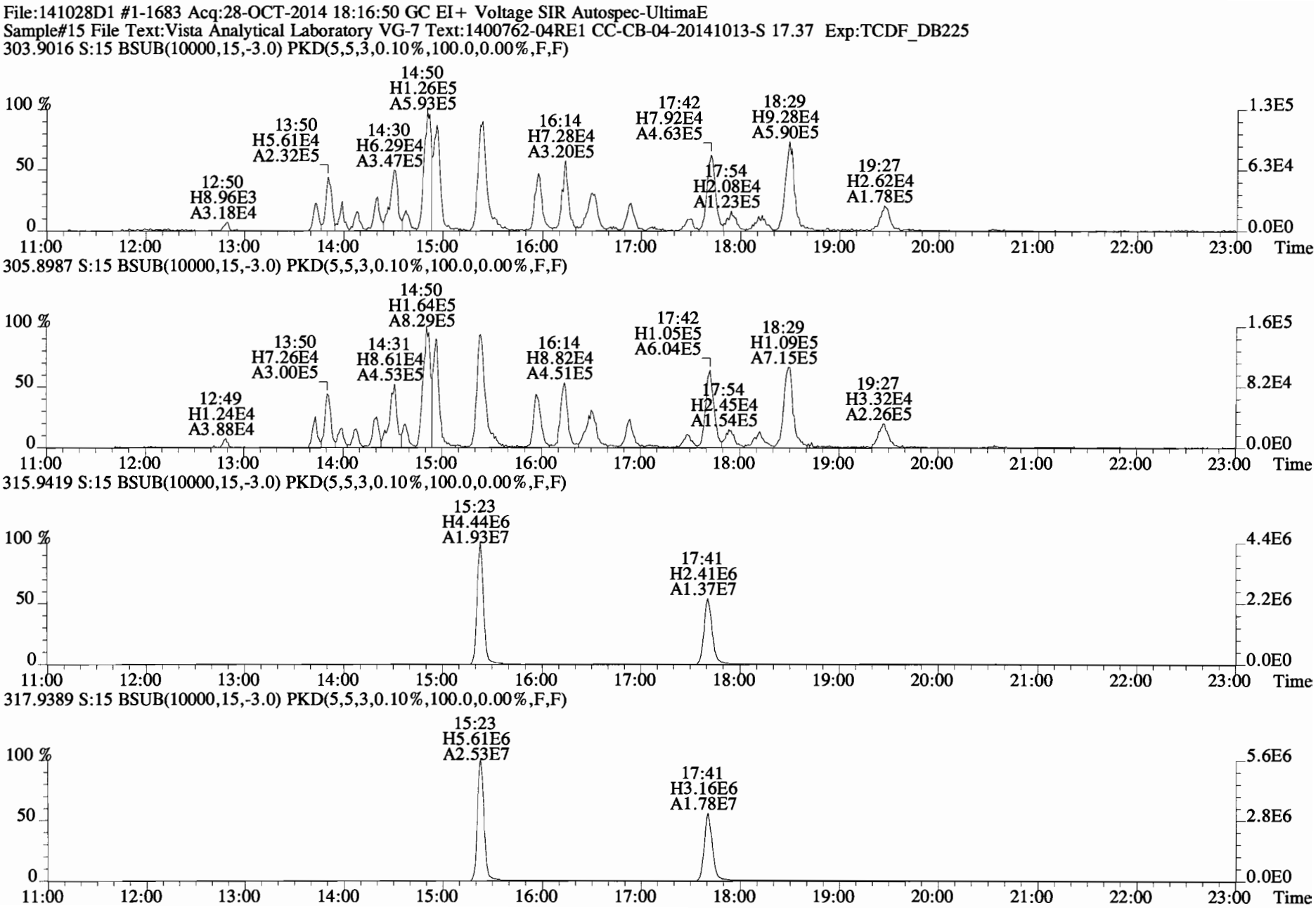
318.9792 S:14



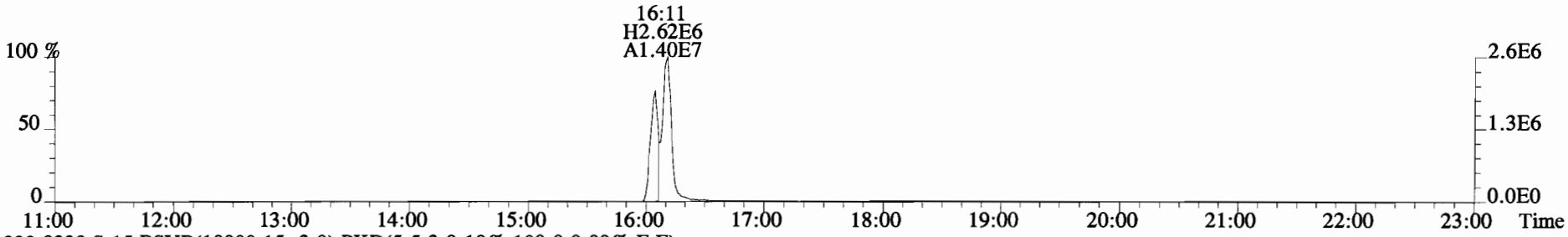
Name	Resp	RA	RT	RRF	Conc	Rec
13C-1,2,3,4-TCDF	4.46e+07	0.76 y	15:23	1.00	199.8	-
13C-2,3,7,8-TCDF	3.16e+07	0.77 y	17:41	0.89	158.6	79.4
2,3,7,8-TCDF	1.07e+06	0.77 y	17:42	0.92	7.356	

Integrations by Analyst: MJ Date: 10/29/14

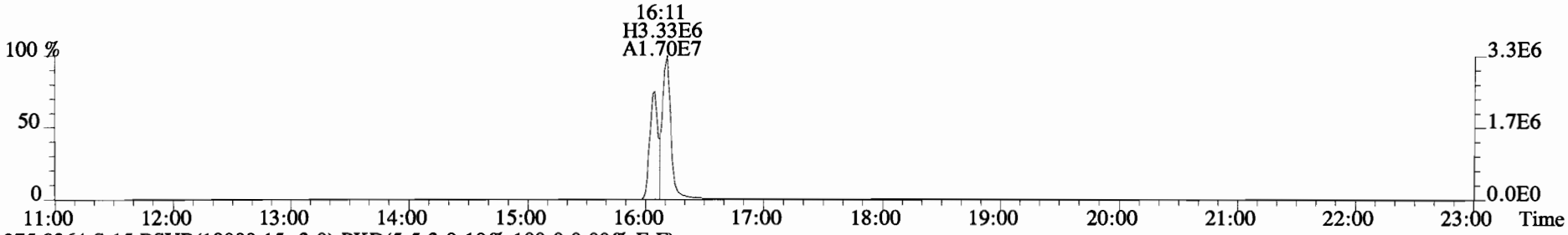
Reviewed by Analyst: Date: 10/29/14


File:141028D1 #1-1683 Acq:28-OCT-2014 18:16:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04RE1 CC-CB-04-20141013-S 17.37 Exp:TCDF_DB225
303.9016 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
12:50 H8.96E3 A3.18E4
13:50 H5.61E4 A2.32E5
14:30 H6.29E4 A3.47E5
14:50 H1.26E5 A5.93E5
16:14 H7.28E4 A3.20E5
17:42 H7.92E4 A4.63E5
17:54 H2.08E4 A1.23E5
18:29 H9.28E4 A5.90E5
19:27 H2.62E4 A1.78E5
305.8987 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
12:49 H1.24E4 A3.88E4
13:50 H7.26E4 A3.00E5
14:31 H8.61E4 A4.53E5
14:50 H1.64E5 A8.29E5
16:14 H8.82E4 A4.51E5
17:42 H1.05E5 A6.04E5
17:54 H2.45E4 A1.54E5
18:29 H1.09E5 A7.15E5
19:27 H3.32E4 A2.26E5
315.9419 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
15:23 H4.44E6 A1.93E7
17:41 H2.41E6 A1.37E7
317.9389 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
15:23 H5.61E6 A2.53E7
17:41 H3.16E6 A1.78E7
100 %
50
0
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time
1.3E5
6.3E4
0.0E0
1.6E5
8.2E4
4.4E6
2.2E6
5.6E6
2.8E6

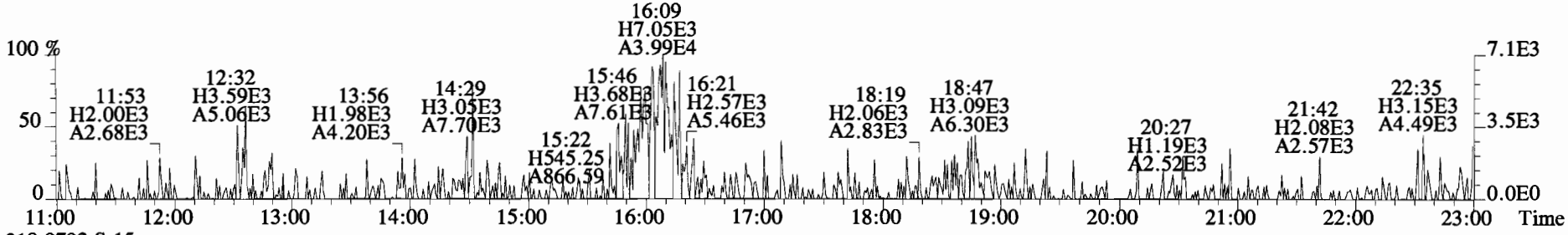
File:141028D1 #1-1683 Acq:28-OCT-2014 18:16:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 File Text:Vista Analytical Laboratory VG-7 Text:1400762-04RE1 CC-CB-04-20141013-S 17.37 Exp:TCDF_DB225
331.9368 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



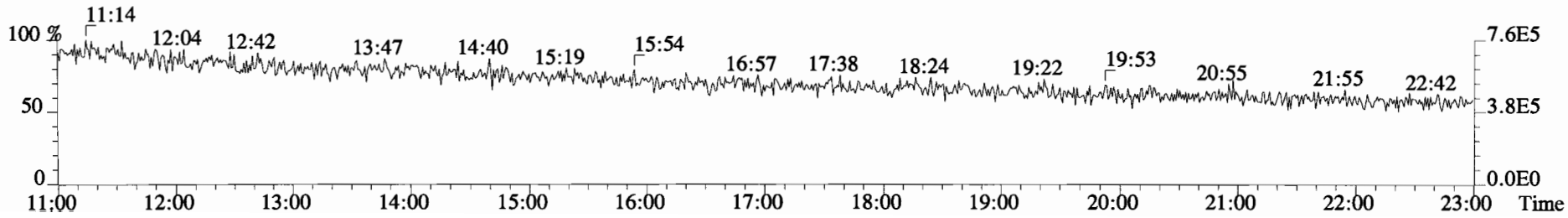
333.9339 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



375.8364 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



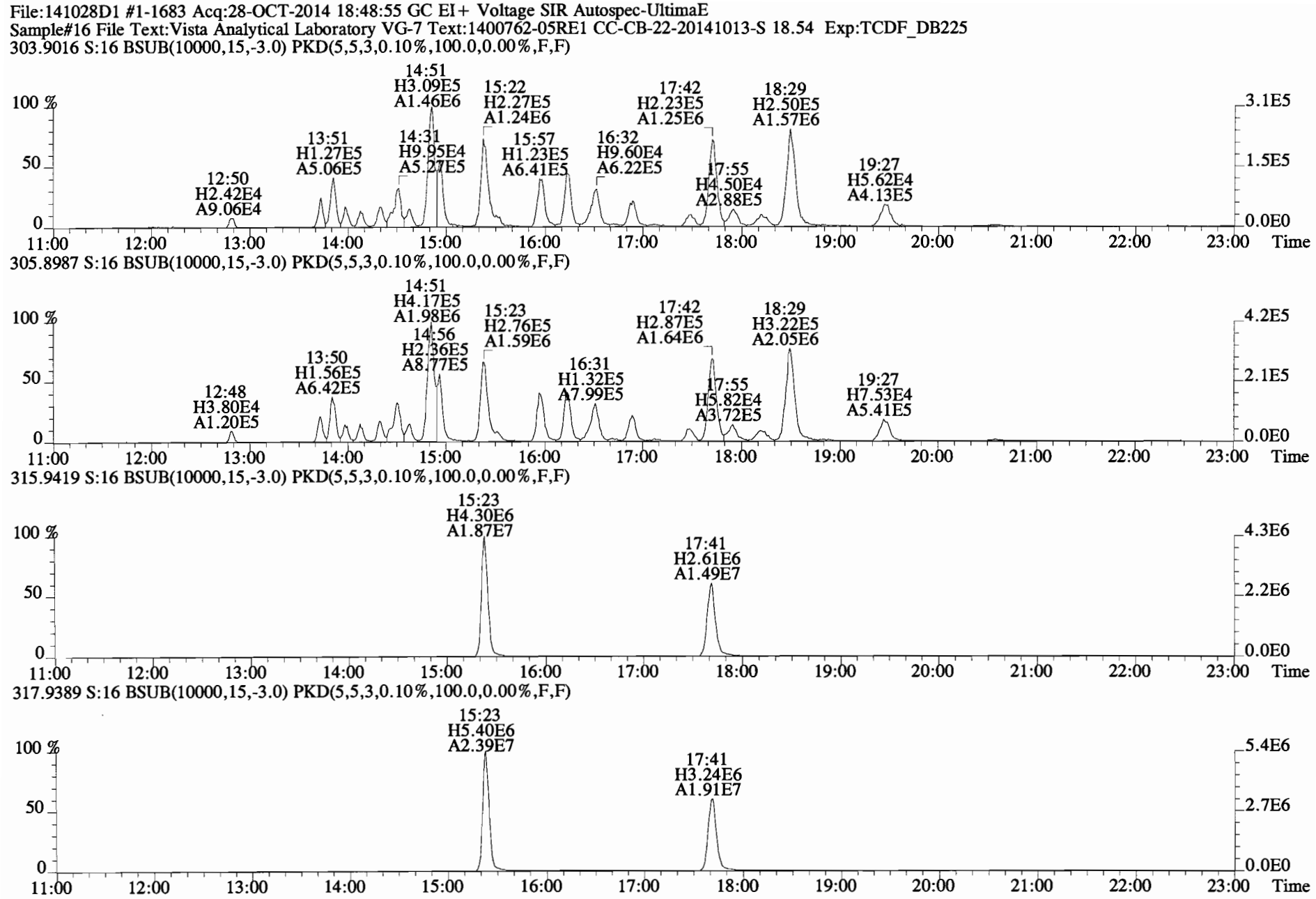
318.9792 S:15

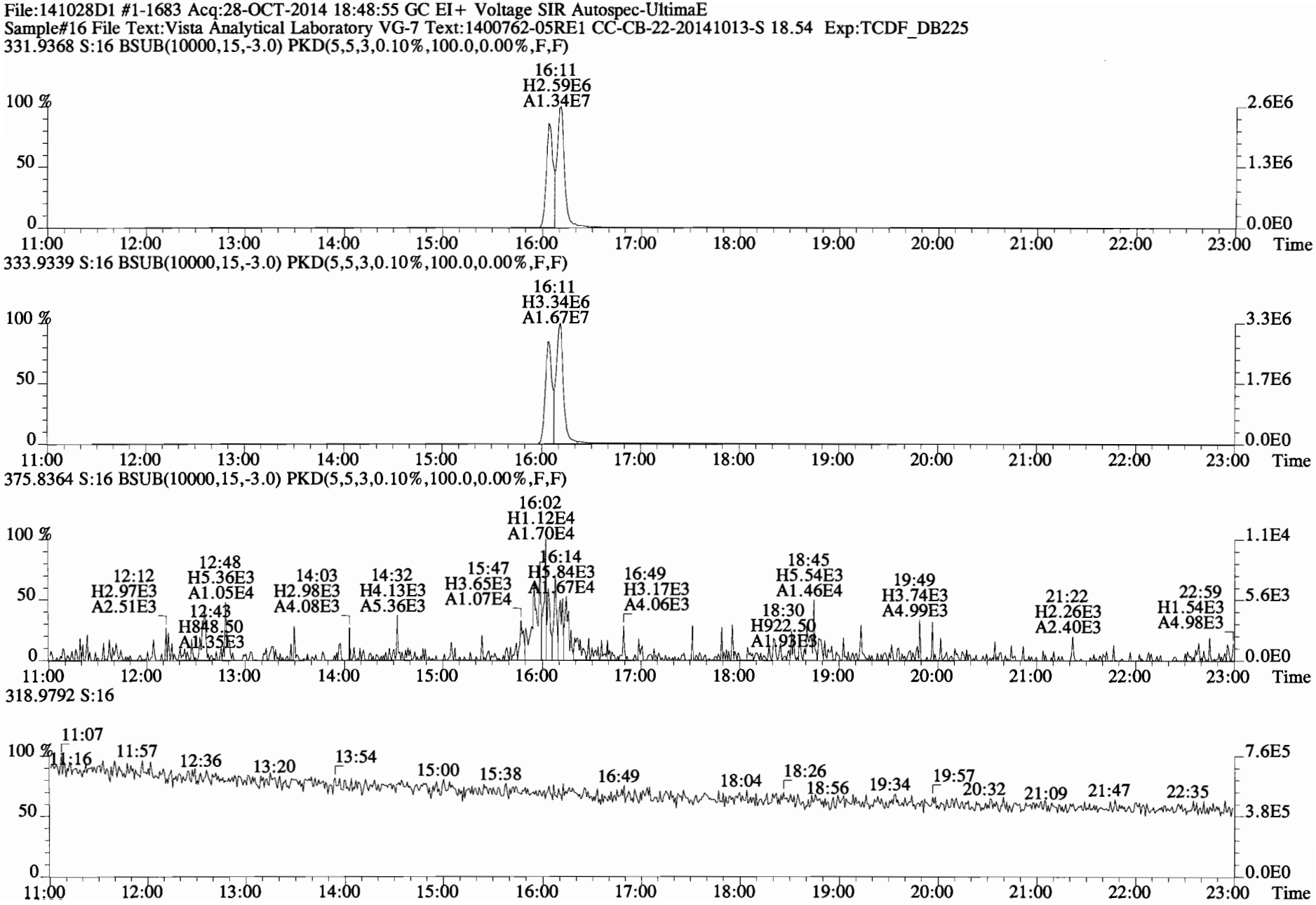


Name	Resp	RA	RT	RRF	Conc	Rec
13C-1,2,3,4-TCDF	4.27e+07	0.78 y	15:23	1.00	199.6	-
13C-2,3,7,8-TCDF	3.40e+07	0.78 y	17:42	0.89	178.2	89.3
2,3,7,8-TCDF	2.89e+06	0.76 y	17:43	0.92	18.51	

Integrations by Analyst: M1 Date: 10/29/14

Reviewed by Analyst: Date: 10/29/14


File:141028D1 #1-1683 Acq:28-OCT-2014 18:48:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05RE1 CC-CB-22-20141013-S 18.54 Exp:TCDF_DB225
303.9016 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
12:50 H2.42E4 A9.06E4
13:51 H1.27E5 A5.06E5
14:31 H9.95E4 A5.27E5
14:51 H3.09E5 A1.46E6
15:22 H2.27E5 A1.24E6
15:57 H1.23E5 A6.41E5
16:32 H9.60E4 A6.22E5
17:42 H2.23E5 A1.25E6
17:55 H4.50E4 A2.88E5
18:29 H2.50E5 A1.57E6
19:27 H5.62E4 A4.13E5
305.8987 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
12:48 H3.80E4 A1.20E5
13:50 H1.56E5 A6.42E5
14:56 H2.36E5 A8.77E5
14:51 H4.17E5 A1.98E6
15:23 H2.76E5 A1.59E6
16:31 H1.32E5 A7.99E5
17:42 H2.87E5 A1.64E6
17:55 H5.82E4 A3.72E5
18:29 H3.22E5 A2.05E6
19:27 H7.53E4 A5.41E5
315.9419 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
15:23 H4.30E6 A1.87E7
17:41 H2.61E6 A1.49E7
317.9389 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
15:23 H5.40E6 A2.39E7
17:41 H3.24E6 A1.91E7
100 %
50
0
3.1E5
1.5E5
0.0E0
4.2E5
2.1E5
4.3E6
2.2E6
5.4E6
2.7E6
11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 Time


File:141028D1 #1-1683 Acq:28-OCT-2014 18:48:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 File Text:Vista Analytical Laboratory VG-7 Text:1400762-05RE1 CC-CB-22-20141013-S 18.54 Exp:TCDF_DB225
331.9368 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
16:11
H2.59E6
A1.34E7
100 %
50
0
2.6E6
1.3E6
0.0E0
11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 Time
333.9339 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
16:11
H3.34E6
A1.67E7
100 %
50
0
3.3E6
1.7E6
0.0E0
11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 Time
375.8364 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
16:02
H1.12E4
A1.70E4
12:12
H2.97E3
A2.51E3
12:48
H5.36E3
A1.05E4
12:43
H848.50
A1.35E3
14:03
H2.98E3
A4.08E3
14:32
H4.13E3
A5.36E3
15:47
H3.65E3
A1.07E4
16:14
H5.84E3
A1.67E4
16:49
H3.17E3
A4.06E3
18:45
H5.54E3
A1.46E4
18:30
H922.50
A1.93E3
19:49
H3.74E3
A4.99E3
21:22
H2.26E3
A2.40E3
22:59
H1.54E3
A4.98E3
100 %
50
0
1.1E4
5.6E3
0.0E0
11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 Time
318.9792 S:16
11:07
11:16
11:57
12:36
13:20
13:54
15:00
15:38
16:49
18:04
18:26
18:56
19:34
19:57
20:32
21:09
21:47
22:35
100 %
50
0
7.6E5
3.8E5
0.0E0
11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 Time

CONTINUING CALIBRATION

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.: CCAL ID: ST141021D1-1

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141021D1 S#1 Analysis Date: 21-OCT-14 Time: 13:45:24

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	y	9.41	7.8 - 12.9 8.2 - 12.3 (4)
1,2,3,7,8-PeCDD	M/M+2	0.59	0.54-0.72	y	49.1	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	52.4	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	51.9	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.25	1.05-1.43	y	51.8	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	50.5	43.0 - 58.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	103	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.80	0.65-0.89	y	9.10	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	48.2	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.57	1.32-1.78	y	50.2	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.28	1.05-1.43	y	46.5	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	49.2	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	48.3	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.25	1.05-1.43	y	49.4	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.09	0.88-1.20	y	50.3	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.08	0.88-1.20	y	51.6	43.0 - 58.0
OCDF	M+2/M+4	0.92	0.76-1.02	y	100	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: [signature]

Date: 10/24/14

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141021D1 S#1 Analysis Date: 21-OCT-14 Time: 13:45:24

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	95.1	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.63	0.54-0.72	y	77.9	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	91.6	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	93.1	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.25	1.05-1.43	y	93.2	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	98.0	72.0 - 138.0
13C-OCDD	M/M+2	0.87	0.76-1.02	y	167	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.73	0.65-0.89	y	98.6	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	85.3	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	80.6	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	92.6	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	94.7	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.53	0.43-0.59	y	92.9	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	93.0	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.44	0.37-0.51	y	98.1	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.44	0.37-0.51	y	87.7	77.0 - 129.0
13C-OCDF	M+2/M+4	0.90	0.76-1.02	y	173	96.0 - 415.0
CLEANUP STANDARD (3)						
37Cl-2,3,7,8-TCDD					9.78	7.9 - 12.7

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified

(3) No ion abundance ratio; report concentration found.

Analyst: MJ

Date: 10/24/14

FORM 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-7 Initial Calibration Date: 10-16-14

RT Window Data Filename: 141021D1 S#1 Analysis Date: 21-OCT-14 Time: 13:45:24

ZB-5MS IS Data Filename: 141021D1 S#1 Analysis Date: 21-OCT-14 Time: 13:45:24

DB_225 IS Data Filename: Analysis Date: Time:

ZB-5MS RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	23:33	1,3,6,8-TCDF (F)	21:23
1,2,8,9-TCDD (L)	27:50	1,2,8,9-TCDF (L)	27:59
1,2,4,7,9-PeCDD (F)	29:26	1,3,4,6,8-PeCDF (F)	27:56
1,2,3,8,9-PeCDD (L)	31:51	1,2,3,8,9-PeCDF (L)	32:06
1,2,4,6,7,9-HxCDD (F)	33:16	1,2,3,4,6,8-HxCDF (F)	32:43
1,2,3,7,8,9-HxCDD (L)	35:14	1,2,3,7,8,9-HxCDF (L)	35:38
1,2,3,4,6,7,9-HpCDD (F)	37:51	1,2,3,4,6,7,8-HpCDF (F)	37:29
1,2,3,4,6,7,8-HpCDD (L)	38:42	1,2,3,4,7,8,9-HpCDF (L)	39:15

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

==========

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

COMPARED PEAKS (1)	% VALLEY HEIGHT BETWEEN
	<25%

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: [signature]

Date: 10/22/14

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141021D1 S#1 Analysis Date: 21-OCT-14 Time: 13:45:24

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.000	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002
LABELED COMPOUNDS			
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.021	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.193	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.992	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.148	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.182	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613. 10/94

Analyst: MJ

Date: 10/21/14

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141021D1 S#1 Analysis Date: 21-OCT-14 Time: 13:45:24

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.000	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.000	0.999-1.001
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.001	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.001	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.000	0.998-1.004
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001
OCDD	13C-OCDD	1.000	0.999-1.001
OCDF	13C-OCDF	1.000	0.999-1.001
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.988	0.975-1.001
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.991	0.979-1.005
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.009	1.001-1.020
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.038	1.002-1.072
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.014	1.002-1.026
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.017	1.007-1.029
13C-1,2,3,7,8,9-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.026	1.014-1.038
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.091	1.069-1.111
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.143	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.127	1.117-1.141
13C-OCDD	13C-1,2,3,4,6,9-HxCDF	1.224	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.230	1.091-1.371

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613. 10/94

Analyst: M

Date: 10/21/14

Client ID: 1613 CS3 14I1102 Filename: 141021D1 S:1 Acq:21-OCT-14 13:45:24 ConCal: ST141021D1-1

Lab ID: ST141021D1-1 GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 1.000 EndCAL: NA

	Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	2.47e+06	0.77 y	1.18	26:58	1.001	9.4141		*	2.5	*
	1,2,3,7,8-PeCDD	9.44e+06	0.59 y	0.92	31:30	1.001	49.134		*	2.5	*
	1,2,3,4,7,8-HxCDD	8.84e+06	1.24 y	1.09	34:50	1.001	52.449		*	2.5	*
	1,2,3,6,7,8-HxCDD	8.85e+06	1.26 y	1.07	34:57	1.001	51.880		*	2.5	*
	1,2,3,7,8,9-HxCDD	8.97e+06	1.25 y	0.93	35:14	1.000	51.788		*	2.5	*
	1,2,3,4,6,7,8-HpCDD	8.30e+06	1.04 y	1.12	38:42	1.000	50.542		*	2.5	*
	OCDD	1.50e+07	0.89 y	0.95	42:02	1.000	102.91		*	2.5	*
	2,3,7,8-TCDF	3.14e+06	0.80 y	1.08	26:12	1.001	9.0964		*	2.5	*
	1,2,3,7,8-PeCDF	1.50e+07	1.58 y	1.09	30:19	1.000	48.188		*	2.5	*
	2,3,4,7,8-PeCDF	1.44e+07	1.57 y	1.04	31:13	1.000	50.229		*	2.5	*
	1,2,3,4,7,8-HxCDF	1.38e+07	1.28 y	1.39	33:55	1.000	46.528		*	2.5	*
	1,2,3,6,7,8-HxCDF	1.51e+07	1.29 y	1.26	34:04	1.000	49.206		*	2.5	*
	2,3,4,6,7,8-HxCDF	1.40e+07	1.27 y	1.30	34:40	1.000	48.343		*	2.5	*
	1,2,3,7,8,9-HxCDF	1.10e+07	1.25 y	1.19	35:38	1.000	49.400		*	2.5	*
	1,2,3,4,6,7,8-HpCDF	1.33e+07	1.09 y	1.62	37:29	1.000	50.267		*	2.5	*
	1,2,3,4,7,8,9-HpCDF	1.14e+07	1.08 y	1.53	39:15	1.000	51.636		*	2.5	*
	OCDF	1.95e+07	0.92 y	1.10	42:15	1.000	100.43		*	2.5	*
IS	13C-2,3,7,8-TCDD	2.21e+07	0.79 y	1.07	26:57	1.021	95.075				
IS	13C-1,2,3,7,8-PeCDD	2.09e+07	0.63 y	1.24	31:29	1.193	77.858				
IS	13C-1,2,3,4,7,8-HxCDD	1.55e+07	1.28 y	0.72	34:49	1.014	91.632				
IS	13C-1,2,3,6,7,8-HxCDD	1.60e+07	1.28 y	0.74	34:55	1.017	93.055				
IS	13C-1,2,3,7,8,9-HxCDD	1.86e+07	1.25 y	0.86	35:13	1.026	93.179				
IS	13C-1,2,3,4,6,7,8-HpCDD	1.47e+07	1.07 y	0.64	38:41	1.127	97.957				
IS	13C-OCDD	3.06e+07	0.87 y	0.78	42:01	1.224	167.50				
IS	13C-2,3,7,8-TCDF	3.20e+07	0.73 y	0.92	26:11	0.992	98.618				
IS	13C-1,2,3,7,8-PeCDF	2.85e+07	1.59 y	0.95	30:18	1.148	85.319				
IS	13C-2,3,4,7,8-PeCDF	2.75e+07	1.61 y	0.97	31:12	1.182	80.621				
IS	13C-1,2,3,4,7,8-HxCDF	2.14e+07	0.51 y	0.99	33:55	0.988	92.574				
IS	13C-1,2,3,6,7,8-HxCDF	2.43e+07	0.52 y	1.10	34:03	0.991	94.710				
IS	13C-2,3,4,6,7,8-HxCDF	2.24e+07	0.53 y	1.03	34:39	1.009	92.900				
IS	13C-1,2,3,7,8,9-HxCDF	1.86e+07	0.52 y	0.86	35:37	1.038	93.004				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.63e+07	0.44 y	0.71	37:28	1.091	98.092				
IS	13C-1,2,3,4,7,8,9-HpCDF	1.45e+07	0.44 y	0.71	39:14	1.143	87.706				
IS	13C-OCDF	3.53e+07	0.90 y	0.87	42:15	1.230	172.88				
C/Up	37Cl-2,3,7,8-TCDD	2.57e+06		1.21	26:58	1.022	9.7791				
RS/RT	13C-1,2,3,4-TCDD	2.17e+07	0.79 y	1.00	26:23	*	100.00				
RS	13C-1,2,3,4-TCDF	3.51e+07	0.76 y	1.00	24:56	*	100.00				
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.33e+07	0.52 y	1.00	34:20	*	100.00				

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	54.4	54.7		*	*
Total Penta-Dioxins	156	156		*	*
Total Hexa-Dioxins	205	205		*	*
Total Hepta-Dioxins	125	126		*	*
Total Tetra-Furans	28.5	28.9		*	*
Total Penta-Furans	206.39	207.87		*	*
Total Hexa-Furans	240	242		*	*
Total Hepta-Furans	102	103		*	*

	Rec	Qual
IS	95.1	
IS	77.9	
IS	91.6	
IS	93.1	
IS	93.2	
IS	98.0	
IS	83.7	
IS	98.6	
IS	85.3	
IS	80.6	
IS	92.6	
IS	94.7	
IS	92.9	
IS	93.0	
IS	98.1	
IS	87.7	
IS	86.4	
C/Up	24.4	

Integrations by Analyst: [signature] Date: 10/21/14

Reviewed by Analyst: [signature] Date: 10/24/14

Vista Analytical Laboratory - Injection Log Run file: 141021D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
141021D1	1	ST141021D1-1	MAS	21-OCT-14	13:45:24	ST141021D1-1	NA
141021D1	2	ST141021D1-2	MAS	21-OCT-14	14:33:44	ST141021D1-2	NA
141021D1	3	SOLVENT BLANK	MAS	21-OCT-14	15:22:05	ST141021D1-1	NA
141021D1	4	SOLVENT BLANK	MAS	21-OCT-14	16:10:31	ST141021D1-1	NA
141021D1	5	B4J0104-BS1	MAS	21-OCT-14	16:58:57	ST141021D1-1	NA
141021D1	6	B4J0108-BS1	MAS	21-OCT-14	17:47:18	ST141021D1-1	NA
141021D1	7	SOLVENT BLANK	MAS	21-OCT-14	18:35:44	ST141021D1-1	NA
141021D1	8	B4J0104-BLK1	MAS	21-OCT-14	19:24:11	ST141021D1-1	NA
141021D1	9	B4J0108-BLK1	MAS	21-OCT-14	20:12:31	ST141021D1-1	NA
141021D1	10	1400766-01	MAS	21-OCT-14	21:00:57	ST141021D1-1	NA
141021D1	11	1400775-01	MAS	21-OCT-14	21:49:23	ST141021D1-1	NA
141021D1	12	1400759-01	MAS	21-OCT-14	22:37:49	ST141021D1-1	NA
141021D1	13	1400760-01	MAS	21-OCT-14	23:26:09	ST141021D1-1	NA
141021D1	14	1400761-01	MAS	22-OCT-14	00:14:33	ST141021D1-1	NA
141021D1	15	1400770-01	MAS	22-OCT-14	01:02:58	ST141021D1-1	NA
141021D1	16	1400673-06 1:40	MAS	22-OCT-14	01:51:18	ST141021D1-2	NA
141021D1	17	SOLVENT BLANK	MAS	22-OCT-14	02:39:38	ST141021D1-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST

Vista Analytical Laboratory

Beg. Calibration ID: ST14102101-1 End Calibration ID: NA

	Beg.	End
Ion abundance within QC limits?	✓	NA
Concentration within range?	✓	
First and last eluters present?	✓	
Retention Times within criteria?	✓	
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	✓	
Forms signed and dated?	✓	
Correct ICAL referenced?	✓	
Run Log:		
-Data file matches Conc Cal ID?	✓	✓
-Correct instrument listed?	✓	
-Samples within 12-hour clock?	y	n

	Beg.	End
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	✓	
TCDD/TCDF valleys < 25%?	✓	NA
Peaks integrated correctly?	✓	
Manual integrations included?	✓	
8280 CS1 Ending Standard		
-Ratios within limits		
-S/N > 2.5:1		
-CS1 within 12-hour clock		✓

Comments:

Reviewed by: _____ 4/10/2014
Initials & Date

* *Ending standard criteria applicable to 8290 only.*

Vista Analytical Laboratory
El Dorado Hills, CA 95762

Calib.Stds.Review 12/2009 rmh

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.: CCAL ID: ST141023D2-1

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141023D2 S#1 Analysis Date: 23-OCT-14 Time: 18:29:38

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	y	9.59	7.8 - 12.9 8.2 - 12.3 (4)
1,2,3,7,8-PeCDD	M/M+2	0.59	0.54-0.72	y	51.6	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	50.8	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	53.1	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05-1.43	y	51.6	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.01	0.88-1.20	y	49.1	43.0 - 58.0
OCDD	M+2/M+4	0.90	0.76-1.02	y	103	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	9.40	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	49.6	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	51.3	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.30	1.05-1.43	y	48.6	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	49.0	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	48.0	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.30	1.05-1.43	y	49.4	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.11	0.88-1.20	y	51.8	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.10	0.88-1.20	y	52.4	43.0 - 58.0
OCDF	M+2/M+4	0.91	0.76-1.02	y	102	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: JM

Date: 10/24/14

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141023D2 S#1 Analysis Date: 23-OCT-14 Time: 18:29:38

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	96.1	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.63	0.54-0.72	y	86.2	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	90.5	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	90.8	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05-1.43	y	91.2	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	97.3	72.0 - 138.0
13C-OCDD	M/M+2	0.88	0.76-1.02	y	171	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.77	0.65-0.89	y	94.1	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	88.0	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	86.3	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	96.3	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	96.4	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	93.9	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.54	0.43-0.59	y	95.0	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.44	0.37-0.51	y	91.2	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.42	0.37-0.51	y	84.5	77.0 - 129.0
13C-OCDF	M+2/M+4	0.88	0.76-1.02	y	174	96.0 - 415.0
CLEANUP STANDARD (3)						
37Cl-2,3,7,8-TCDD					10.4	7.9 - 12.7

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified

(3) No ion abundance ratio; report concentration found.

Analyst: M)

Date: 10/24/14

FORM 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-7 Initial Calibration Date: 10-16-14

RT Window Data Filename: 141023D2 S#1 Analysis Date: 23-OCT-14 Time: 18:29:38

ZB-5MS IS Data Filename: 141023D2 S#1 Analysis Date: 23-OCT-14 Time: 18:29:38

DB_225 IS Data Filename: Analysis Date: Time:

ZB-5MS RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	23:34	1,3,6,8-TCDF (F)	21:24
1,2,8,9-TCDD (L)	27:50	1,2,8,9-TCDF (L)	27:59
1,2,4,7,9-PeCDD (F)	29:26	1,3,4,6,8-PeCDF (F)	27:56
1,2,3,8,9-PeCDD (L)	31:51	1,2,3,8,9-PeCDF (L)	32:06
1,2,4,6,7,9-HxCDD (F)	33:16	1,2,3,4,6,8-HxCDF (F)	32:43
1,2,3,7,8,9-HxCDD (L)	35:14	1,2,3,7,8,9-HxCDF (L)	35:38
1,2,3,4,6,7,9-HpCDD (F)	37:51	1,2,3,4,6,7,8-HpCDF (F)	37:29
1,2,3,4,6,7,8-HpCDD (L)	38:42	1,2,3,4,7,8,9-HpCDF (L)	39:15

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

==========

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

COMPARED PEAKS (1)	% VALLEY HEIGHT BETWEEN
	<25%

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: MJ

Date: 10/24/14

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141023D2 S#1 Analysis Date: 23-OCT-14 Time: 18:29:38

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.001	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002
LABELED COMPOUNDS			
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.021	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.193	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.992	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.148	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.182	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613. 10/94

Analyst: MJ

Date: 10/24/14

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141023D2 S#1 Analysis Date: 23-OCT-14 Time: 18:29:38

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.001	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.001	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.000	0.999-1.001
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.000	0.998-1.004
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001
OCDD	13C-OCDD	1.000	0.999-1.001
OCDF	13C-OCDF	1.000	0.999-1.001
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.988	0.975-1.001
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.992	0.979-1.005
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.009	1.001-1.020
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.038	1.002-1.072
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.014	1.002-1.026
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.017	1.007-1.029
13C-1,2,3,7,8,9-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.026	1.014-1.038
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.091	1.069-1.111
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.143	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.127	1.117-1.141
13C-OCDD	13C-1,2,3,4,6,9-HxCDF	1.224	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.231	1.091-1.371

(1) Contract-required limits for
Relative Retention Times (RRT)
as specified in Table 2, Method 1613. 10/94

Analyst: MN

Date: 10/24/14

Client ID: 1613 CS3 14I1102 Filename: 141023D2 S:1 Acq:23-OCT-14 18:29:38 ConCal: ST141023D2-1

Lab ID: ST141023D2-1 GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 1.000 EndCAL: NA

	Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	1.88e+06	0.77 y	1.18	26:59	1.001	9.5879		*	2.5	*
	1,2,3,7,8-PeCDD	8.13e+06	0.59 y	0.92	31:29	1.001	51.595		*	2.5	*
	1,2,3,4,7,8-HxCDD	7.20e+06	1.25 y	1.09	34:49	1.000	50.833		*	2.5	*
	1,2,3,6,7,8-HxCDD	7.51e+06	1.27 y	1.07	34:56	1.000	53.067		*	2.5	*
	1,2,3,7,8,9-HxCDD	7.44e+06	1.27 y	0.93	35:14	1.000	51.613		*	2.5	*
	1,2,3,4,6,7,8-HpCDD	6.82e+06	1.01 y	1.12	38:42	1.000	49.143		*	2.5	*
	OCDD	1.30e+07	0.90 y	0.95	42:01	1.000	102.62		*	2.5	*
	2,3,7,8-TCDF	2.56e+06	0.77 y	1.08	26:12	1.001	9.3967		*	2.5	*
	1,2,3,7,8-PeCDF	1.31e+07	1.62 y	1.09	30:19	1.001	49.586		*	2.5	*
	2,3,4,7,8-PeCDF	1.30e+07	1.60 y	1.04	31:13	1.000	51.309		*	2.5	*
	1,2,3,4,7,8-HxCDF	1.28e+07	1.30 y	1.39	33:55	1.000	48.639		*	2.5	*
	1,2,3,6,7,8-HxCDF	1.30e+07	1.27 y	1.26	34:03	1.001	48.990		*	2.5	*
	2,3,4,6,7,8-HxCDF	1.20e+07	1.29 y	1.30	34:40	1.001	48.044		*	2.5	*
	1,2,3,7,8,9-HxCDF	9.52e+06	1.30 y	1.19	35:38	1.000	49.378		*	2.5	*
	1,2,3,4,6,7,8-HpCDF	1.08e+07	1.11 y	1.62	37:29	1.000	51.832		*	2.5	*
	1,2,3,4,7,8,9-HpCDF	9.50e+06	1.10 y	1.53	39:15	1.000	52.420		*	2.5	*
	OCDF	1.69e+07	0.91 y	1.10	42:15	1.000	101.54		*	2.5	*
IS	13C-2,3,7,8-TCDD	1.66e+07	0.79 y	1.07	26:57	1.021	96.087				
IS	13C-1,2,3,7,8-PeCDD	1.72e+07	0.63 y	1.24	31:28	1.193	86.228				
IS	13C-1,2,3,4,7,8-HxCDD	1.30e+07	1.29 y	0.72	34:49	1.014	90.522				
IS	13C-1,2,3,6,7,8-HxCDD	1.33e+07	1.31 y	0.74	34:55	1.017	90.795				
IS	13C-1,2,3,7,8,9-HxCDD	1.55e+07	1.26 y	0.86	35:13	1.026	91.163				
IS	13C-1,2,3,4,6,7,8-HpCDD	1.24e+07	1.05 y	0.64	38:41	1.127	97.254				
IS	13C-OCDD	2.66e+07	0.88 y	0.78	42:00	1.224	171.28				
IS	13C-2,3,7,8-TCDF	2.53e+07	0.77 y	0.92	26:11	0.992	94.068				
IS	13C-1,2,3,7,8-PeCDF	2.43e+07	1.59 y	0.95	30:18	1.148	88.029				
IS	13C-2,3,4,7,8-PeCDF	2.44e+07	1.61 y	0.97	31:12	1.182	86.324				
IS	13C-1,2,3,4,7,8-HxCDF	1.90e+07	0.52 y	0.99	33:54	0.988	96.320				
IS	13C-1,2,3,6,7,8-HxCDF	2.10e+07	0.52 y	1.10	34:02	0.992	96.394				
IS	13C-2,3,4,6,7,8-HxCDF	1.92e+07	0.52 y	1.03	34:38	1.009	93.881				
IS	13C-1,2,3,7,8,9-HxCDF	1.62e+07	0.54 y	0.86	35:37	1.038	94.978				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.29e+07	0.44 y	0.71	37:28	1.091	91.177				
IS	13C-1,2,3,4,7,8,9-HpCDF	1.19e+07	0.42 y	0.71	39:14	1.143	84.469				
IS	13C-OCDF	3.02e+07	0.88 y	0.87	42:14	1.231	173.73				
C/Up	37Cl-2,3,7,8-TCDD	2.02e+06		1.21	26:58	1.022	10.386				
RS/RT	13C-1,2,3,4-TCDD	1.61e+07	0.80 y	1.00	26:23	*	100.00				
RS	13C-1,2,3,4-TCDF	2.91e+07	0.77 y	1.00	24:57	*	100.00				
RS/RT	13C-1,2,3,4,6,9-HxCDF	1.99e+07	0.52 y	1.00	34:20	*	100.00				

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	55.2	55.5		*	*
Total Penta-Dioxins	160	160		*	*
Total Hexa-Dioxins	204	205		*	*
Total Hepta-Dioxins	120	121		*	*
Total Tetra-Furans	30.8	31.1		*	*
Total Penta-Furans	208.44	209.28		*	*
Total Hexa-Furans	243	245		*	*
Total Hepta-Furans	105	106		*	*

	Name	Rec	Qual
IS	13C-2,3,7,8-TCDD	96.1	
IS	13C-1,2,3,7,8-PeCDD	86.2	
IS	13C-1,2,3,4,7,8-HxCDD	90.5	
IS	13C-1,2,3,6,7,8-HxCDD	90.8	
IS	13C-1,2,3,7,8,9-HxCDD	91.2	
IS	13C-1,2,3,4,6,7,8-HpCDD	97.3	
IS	13C-OCDD	85.6	
IS	13C-2,3,7,8-TCDF	94.1	
IS	13C-1,2,3,7,8-PeCDF	88.0	
IS	13C-2,3,4,7,8-PeCDF	86.3	
IS	13C-1,2,3,4,7,8-HxCDF	96.3	
IS	13C-1,2,3,6,7,8-HxCDF	96.4	
IS	13C-2,3,4,6,7,8-HxCDF	93.9	
IS	13C-1,2,3,7,8,9-HxCDF	95.0	
IS	13C-1,2,3,4,6,7,8-HpCDF	91.2	
IS	13C-1,2,3,4,7,8,9-HpCDF	84.5	
IS	13C-OCDF	86.9	
C/Up	37Cl-2,3,7,8-TCDD	26.0	

Integrations by Analyst: MJ Date: 10/24/14

Reviewed by Analyst: [signature] Date: 10/24/14

Vista Analytical Laboratory - Injection Log Run file: 141023D2 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
141023D2	1	ST141023D2-1	MAS	23-OCT-14	18:29:38	ST141023D2-1	NA
141023D2	2	B4J0118-BS1	MAS	23-OCT-14	19:17:58	ST141023D2-1	NA
141023D2	3	B4J0121-BS1	MAS	23-OCT-14	20:06:19	ST141023D2-1	NA
141023D2	4	SOLVENT BLANK	MAS	23-OCT-14	20:54:39	ST141023D2-1	NA
141023D2	5	B4J0118-BLK1	MAS	23-OCT-14	21:43:05	ST141023D2-1	NA
141023D2	6	B4J0121-BLK1	MAS	23-OCT-14	22:31:25	ST141023D2-1	NA
141023D2	7	1400762-03 1:5	MAS	23-OCT-14	23:19:49	ST141023D2-1	NA
141023D2	8	1400762-04 1:5	MAS	24-OCT-14	00:08:09	ST141023D2-1	NA
141023D2	9	1400762-05 1:5	MAS	24-OCT-14	00:56:33	ST141023D2-1	NA
141023D2	10	1400763-01 1:10	MAS	24-OCT-14	01:44:58	ST141023D2-1	NA
141023D2	11	1400763-02 1:10	MAS	24-OCT-14	02:33:18	ST141023D2-1	NA
141023D2	12	1400763-03 1:10	MAS	24-OCT-14	03:21:41	ST141023D2-1	NA
141023D2	13	SOLVENT BLANK	MAS	24-OCT-14	04:10:09	ST141023D2-1	NA
141023D2	14	SOLVENT BLANK	MAS	24-OCT-14	04:58:33	ST141023D2-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST

Vista Analytical Laboratory

Beg. Calibration ID: ST141023D2-1

End Calibration ID: NA

	Beg.	End
Ion abundance within QC limits?	✓	NA
Concentration within range?	✓	
First and last eluters present?	✓	
Retention Times within criteria?	✓	
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	✓	
Forms signed and dated?	✓	
Correct ICAL referenced?	✓	
Run Log:		
-Data file matches Conc Cal ID?	✓	
-Correct instrument listed?	✓	✓
-Samples within 12-hour clock?	y	n

	Beg.	End
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	✓	✓
TCDD/TCDF valleys < 25%?	✓	NA
Peaks integrated correctly?	✓	
Manual integrations included?	✓	
8280 CS1 Ending Standard		
-Ratios within limits		
-S/N > 2.5:1		
-CS1 within 12-hour clock		✓

Comments:

Reviewed by: ✓ 10/24/14
Initials & Date

* *Ending standard criteria applicable to 8290 only.*

Vista Analytical Laboratory
El Dorado Hills, CA 95762

Calib.Stds.Review 12/2009 rmh

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.: CCAL ID: ST141027D1-1

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141027D1 S#1 Analysis Date: 27-OCT-14 Time: 14:31:19

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	y	9.47	7.8 - 12.9
						8.2 - 12.3 (4)
1,2,3,7,8-PeCDD	M/M+2	0.61	0.54-0.72	y	48.0	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	48.4	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	50.8	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05-1.43	y	49.8	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	50.6	43.0 - 58.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	99.0	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	8.74	8.4 - 12.0
						8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	47.8	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	49.3	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.28	1.05-1.43	y	47.1	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	49.5	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.31	1.05-1.43	y	47.0	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.30	1.05-1.43	y	48.0	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.08	0.88-1.20	y	47.8	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.11	0.88-1.20	y	48.5	43.0 - 58.0
OCDF	M+2/M+4	0.91	0.76-1.02	y	98.0	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: MJ

Date: 10/27/14

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141027D1 S#1 Analysis Date: 27-OCT-14 Time: 14:31:19

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	93.6	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.64	0.54-0.72	y	71.5	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	97.2	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	99.3	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	101	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	98.3	72.0 - 138.0
13C-OCDD	M/M+2	0.87	0.76-1.02	y	168	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.78	0.65-0.89	y	100	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	78.9	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.57	1.32-1.78	y	77.2	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	88.5	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	92.3	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	93.6	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	95.1	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.44	0.37-0.51	y	97.6	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.44	0.37-0.51	y	91.9	77.0 - 129.0
13C-OCDF	M+2/M+4	0.90	0.76-1.02	y	166	96.0 - 415.0
CLEANUP STANDARD (3)						
37Cl-2,3,7,8-TCDD					9.83	7.9 - 12.7

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified

(3) No ion abundance ratio; report concentration found.

Analyst: M1

Date: 10/27/14

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.: CCAL ID: ST141027D1-1

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141027D1 S#1 Analysis Date: 27-OCT-14 Time: 14:31:19

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	y	9.47	8.00 - 12.0
1,2,3,7,8-PeCDD	M/M+2	0.61	0.54-0.72	y	48.0	40.0 - 60.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	48.4	40.0 - 60.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	50.8	40.0 - 60.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05-1.43	y	49.8	40.0 - 60.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	50.6	40.0 - 60.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	99.0	80.0 - 120
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	8.74	8.00 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	47.8	40.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	49.3	40.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.28	1.05-1.43	y	47.1	40.0 - 60.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	49.5	40.0 - 60.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.31	1.05-1.43	y	47.0	40.0 - 60.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.30	1.05-1.43	y	48.0	40.0 - 60.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.08	0.88-1.20	y	47.8	40.0 - 60.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.11	0.88-1.20	y	48.5	40.0 - 60.0
OCDF	M+2/M+4	0.91	0.76-1.02	y	98.0	80.0 - 120

Analyst: M)

Date: 10/27/14

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141027D1 S#1 Analysis Date: 27-OCT-14 Time: 14:31:19

LABELED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	93.6	70.0 - 130
13C-1,2,3,7,8-PeCDD	M/M+2	0.64	0.54-0.72	y	71.5	70.0 - 130
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	97.2	70.0 - 130
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	99.3	70.0 - 130
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	101	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	98.3	70.0 - 130
13C-OCDD	M+2/M+4	0.87	0.76-1.02	y	168	140 - 260
13C-2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	y	100	70.0 - 130
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	78.9	70.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.57	1.32-1.78	y	77.2	70.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	88.5	70.0 - 130
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	92.3	70.0 - 130
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	93.6	70.0 - 130
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	95.1	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.44	0.37-0.51	y	97.6	70.0 - 130
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37-0.51	y	91.9	70.0 - 130
13C-OCDF	M+2/M+4	0.90	0.76-1.02	y	166	140 - 260
CLEANUP STANDARD						
37Cl-2,3,7,8-TCDD					9.83	7.00 - 13.0

Analyst: m)

Date: 10/27/14

FORM 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-7 Initial Calibration Date: 10-16-14

RT Window Data Filename: 141027D1 S#1 Analysis Date: 27-OCT-14 Time: 14:31:19

ZB-5MS IS Data Filename: 141027D1 S#1 Analysis Date: 27-OCT-14 Time: 14:31:19

DB_225 IS Data Filename: Analysis Date: Time:

ZB-5MS RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	23:37	1,3,6,8-TCDF (F)	21:26
1,2,8,9-TCDD (L)	27:54	1,2,8,9-TCDF (L)	28:03
1,2,4,7,9-PeCDD (F)	29:30	1,3,4,6,8-PeCDF (F)	27:60
1,2,3,8,9-PeCDD (L)	31:56	1,2,3,8,9-PeCDF (L)	32:11
1,2,4,6,7,9-HxCDD (F)	33:21	1,2,3,4,6,8-HxCDF (F)	32:48
1,2,3,7,8,9-HxCDD (L)	35:19	1,2,3,7,8,9-HxCDF (L)	35:43
1,2,3,4,6,7,9-HpCDD (F)	37:56	1,2,3,4,6,7,8-HpCDF (F)	37:33
1,2,3,4,6,7,8-HpCDD (L)	38:47	1,2,3,4,7,8,9-HpCDF (L)	39:20

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

==========

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

COMPARED PEAKS (1)	% VALLEY HEIGHT BETWEEN
	<25%

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: (M)

Date: 10/24/14

FORM 6A

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141027D1 S#1 Analysis Date: 27-OCT-14 Time: 14:31:19

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.000	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.000	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002
LABELED COMPOUNDS			
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.193	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.992	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.148	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.183	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613. 10/94

Analyst: MJ

Date: 10/27/14

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141027D1 S#1 Analysis Date: 27-OCT-14 Time: 14:31:19

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.001	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.001	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.000	0.998-1.004
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.001	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001
OCDD	13C-OCDD	1.000	0.999-1.001
OCDF	13C-OCDF	1.000	0.999-1.001
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.988	0.975-1.001
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.992	0.979-1.005
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.009	1.001-1.020
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.037	1.002-1.072
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.014	1.002-1.026
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.017	1.007-1.029
13C-1,2,3,7,8,9-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.026	1.014-1.038
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.091	1.069-1.111
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.143	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.127	1.117-1.141
13C-OCDD	13C-1,2,3,4,6,9-HxCDF	1.223	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.230	1.091-1.371

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613. 10/94

Analyst: VM

Date: 10/27/14

Client ID: 1613 CS3 14I1102 Filename: 141027D1 S:1 Acq:27-OCT-14 14:31:19 ConCal: ST141027D1-1

Lab ID: ST141027D1-1 GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 1.000 EndCAL: ST141027D1-2

	Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	2.24e+06	0.77 y	1.18	27:03	1.001	9.4703		*	2.5	*
	1,2,3,7,8-PeCDD	7.78e+06	0.61 y	0.92	31:34	1.000	48.006		*	2.5	*
	1,2,3,4,7,8-HxCDD	7.02e+06	1.25 y	1.09	34:54	1.000	48.419		*	2.5	*
	1,2,3,6,7,8-HxCDD	7.50e+06	1.27 y	1.07	35:01	1.000	50.777		*	2.5	*
	1,2,3,7,8,9-HxCDD	7.55e+06	1.27 y	0.93	35:19	1.000	49.781		*	2.5	*
	1,2,3,4,6,7,8-HpCDD	6.76e+06	1.04 y	1.12	38:47	1.001	50.608		*	2.5	*
	OCDD	1.17e+07	0.89 y	0.95	42:06	1.000	98.955		*	2.5	*
	2,3,7,8-TCDF	2.70e+06	0.76 y	1.08	26:15	1.001	8.7370		*	2.5	*
	1,2,3,7,8-PeCDF	1.21e+07	1.58 y	1.09	30:23	1.000	47.809		*	2.5	*
	2,3,4,7,8-PeCDF	1.19e+07	1.61 y	1.04	31:17	1.000	49.317		*	2.5	*
	1,2,3,4,7,8-HxCDF	1.09e+07	1.28 y	1.39	34:00	1.000	47.058		*	2.5	*
	1,2,3,6,7,8-HxCDF	1.20e+07	1.29 y	1.26	34:08	1.001	49.530		*	2.5	*
	2,3,4,6,7,8-HxCDF	1.12e+07	1.31 y	1.30	34:44	1.001	46.965		*	2.5	*
	1,2,3,7,8,9-HxCDF	8.84e+06	1.30 y	1.19	35:43	1.001	48.024		*	2.5	*
	1,2,3,4,6,7,8-HpCDF	1.02e+07	1.08 y	1.62	37:33	1.000	47.839		*	2.5	*
	1,2,3,4,7,8,9-HpCDF	9.12e+06	1.11 y	1.53	39:20	1.000	48.511		*	2.5	*
	OCDF	1.48e+07	0.91 y	1.10	42:20	1.000	98.037		*	2.5	*

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	56.7	57.2		*	*
Total Penta-Dioxins	158	158		*	*
Total Hexa-Dioxins	195	196		*	*
Total Hepta-Dioxins	124	125		*	*
Total Tetra-Furans	28.1	28.6		*	*
Total Penta-Furans	208.15	209.59		*	*
Total Hexa-Furans	240	241		*	*
Total Hepta-Furans	97.4	98.8		*	*

								Rec	Qual
IS	13C-2,3,7,8-TCDD	2.00e+07	0.79 y	1.07	27:01	1.022	93.556	93.6	
IS	13C-1,2,3,7,8-PeCDD	1.76e+07	0.64 y	1.24	31:33	1.193	71.549	71.5	
IS	13C-1,2,3,4,7,8-HxCDD	1.33e+07	1.26 y	0.72	34:53	1.014	97.223	97.2	
IS	13C-1,2,3,6,7,8-HxCDD	1.38e+07	1.23 y	0.74	35:00	1.017	99.332	99.3	
IS	13C-1,2,3,7,8,9-HxCDD	1.63e+07	1.24 y	0.86	35:18	1.026	100.65	101	
IS	13C-1,2,3,4,6,7,8-HpCDD	1.20e+07	1.05 y	0.64	38:46	1.127	98.283	98.3	
IS	13C-OCDD	2.49e+07	0.87 y	0.78	42:05	1.223	168.09	84.0	
IS	13C-2,3,7,8-TCDF	2.87e+07	0.78 y	0.92	26:14	0.992	100.29	100	
IS	13C-1,2,3,7,8-PeCDF	2.32e+07	1.62 y	0.95	30:22	1.148	78.935	78.9	
IS	13C-2,3,4,7,8-PeCDF	2.32e+07	1.57 y	0.97	31:17	1.183	77.209	77.2	
IS	13C-1,2,3,4,7,8-HxCDF	1.66e+07	0.51 y	0.99	33:59	0.988	88.520	88.5	
IS	13C-1,2,3,6,7,8-HxCDF	1.92e+07	0.52 y	1.10	34:07	0.992	92.287	92.3	
IS	13C-2,3,4,6,7,8-HxCDF	1.83e+07	0.51 y	1.03	34:43	1.009	93.619	93.6	
IS	13C-1,2,3,7,8,9-HxCDF	1.55e+07	0.52 y	0.86	35:42	1.037	95.100	95.1	
IS	13C-1,2,3,4,6,7,8-HpCDF	1.32e+07	0.44 y	0.71	37:32	1.091	97.634	97.6	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.23e+07	0.44 y	0.71	39:19	1.143	91.928	91.9	
IS	13C-OCDF	2.75e+07	0.90 y	0.87	42:19	1.230	166.00	83.0	
C/Up	37Cl-2,3,7,8-TCDD	2.37e+06		1.21	27:02	1.022	9.8276	24.6	
RS/RT	13C-1,2,3,4-TCDD	1.99e+07	0.80 y	1.00	26:27	*	100.00		
RS	13C-1,2,3,4-TCDF	3.10e+07	0.76 y	1.00	24:59	*	100.00		
RS/RT	13C-1,2,3,4,6,9-HxCDF	1.89e+07	0.52 y	1.00	34:24	*	100.00		

Integrations by Analyst: VM Date: 10/27/14

Reviewed by Analyst: [signature] Date: 10/27/14

Vista Analytical Laboratory - Injection Log Run file: 141027D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
141027D1	1	ST141027D1-1	MAS	27-OCT-14	14:31:19	ST141027D1-1	ST141027D1-2
141027D1	2	B4J0130-BS1	MAS	27-OCT-14	15:19:49	ST141027D1-1	NA
141027D1	3	B4J0127-BS1	MAS	27-OCT-14	16:08:20	ST141027D1-1	NA
141027D1	4	B4J0128-BS1	MAS	27-OCT-14	16:56:49	ST141027D1-1	ST141027D1-2
141027D1	5	SOLVENT BLANK	MAS	27-OCT-14	17:45:20	NA	NA
141027D1	6	B4J0130-BLK1	MAS	27-OCT-14	18:33:50	ST141027D1-1	NA
141027D1	7	B4J0127-BLK1	MAS	27-OCT-14	19:22:20	ST141027D1-1	NA
141027D1	8	B4J0128-BLK1	MAS	27-OCT-14	20:10:51	ST141027D1-1	ST141027D1-2
141027D1	9	1400777-24	MAS	27-OCT-14	20:59:20	ST141027D1-1	NA
141027D1	10	1400760-01RE1	MAS	27-OCT-14	21:47:50	ST141027D1-1	NA
141027D1	11	1400761-01RE1	MAS	27-OCT-14	22:36:18	ST141027D1-1	NA
141027D1	12	1400712-01RE2	MAS	27-OCT-14	23:24:45	ST141027D1-1	ST141027D1-2
141027D1	13	1400762-03	MAS	28-OCT-14	00:13:15	ST141027D1-1	NA
141027D1	14	1400762-04	MAS	28-OCT-14	01:01:43	ST141027D1-1	NA
141027D1	15	1400762-05	MAS	28-OCT-14	01:50:12	ST141027D1-1	NA
141027D1	16	SOLVENT BLANK	MAS	28-OCT-14	02:38:45	NA	NA
141027D1	17	SOLVENT BLANK	MAS	28-OCT-14	03:27:15	NA	NA
141027D1	18	ST141027D1-2	MAS	28-OCT-14	04:15:46	ST141027D1-1	ST141027D1-2

CALIBRATION STANDARDS REVIEW CHECKLIST

Vista Analytical Laboratory

Beg. Calibration ID: ST141027D1-1 End Calibration ID: ST141027D1-2

	Beg.	End
Ion abundance within QC limits?	✓	✓
Concentration within range?	✓	✓
First and last eluters present?	✓	✓
Retention Times within criteria?	✓	✓
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	✓	✓
Forms signed and dated?	✓	✓
Correct ICAL referenced?	✓	✓
Run Log:		
-Data file matches Conc Cal ID?	✓	✓
-Correct instrument listed?	✓	✓
-Samples within 12-hour clock?	y	n

	Beg.	End
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	✓	✓
TCDD/TCDF valleys < 25%?	✓	✓
Peaks integrated correctly?	✓	✓
Manual integrations included?	✓	✓
8280 CS1 Ending Standard		
-Ratios within limits	NA	
-S/N > 2.5:1		
-CS1 within 12-hour clock	✓	

Comments:

Reviewed by: ✓ 10/28/14
Initials & Date

* *Ending standard criteria applicable to 8290 only.*

Vista Analytical Laboratory
El Dorado Hills, CA 95762

Calib.Stds.Review 12/2009 rmh

FORM 4A/4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory CCAL ID: ST141028D1-4

Initial Calibration Date: 10-28-14

Instrument ID: VG-7 GC Column ID: DB-225

VER Data Filename: 141028D1 S#6 Analysis Date: 28-OCT-14 Time: 13:28:00

ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	CONC. FOUND	CONC. RANGE 1613 (ng/mL)	CONC. RANGE 8290 (ng/mL)
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	9.8	8.4 - 12.0 (3) 8.6 - 11.6 (4)	8.0 - 12.0
13C-2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	103.0	71.0 - 140.0 (3) 76.0 - 131.0 (4)	70.0 - 130.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6a, Method 1613, under VER.

(4) Contract required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: MN

Date: 10/29/14

Client ID: 1613 CS3 14I1102 Filename: 141028D1 S:6 Acq:28-OCT-14 13:28:00 ConCal: ST141028D1-4
Lab ID: ST141028D1-4 GC Column ID: DB-225 ICal: 1613TCDFVG7-10-28-14 wt/vol: 1.000 EndCAL: ST141028D1-7

Name	Resp	RA	RT	RRF	Conc	Rec
13C-1,2,3,4-TCDF	3.61e+07	0.79 y	15:24	1.00	100.0	-
13C-2,3,7,8-TCDF	3.32e+07	0.77 y	17:42	0.89	103.0	103.0
2,3,7,8-TCDF	3.00e+06	0.76 y	17:43	0.92	9.830	

Integrations by Analyst: MJ Date: 10/29/14

Reviewed by Analyst: [signature] Date: 10/29/14

Vista Analytical Laboratory - Injection Log Run file: 141028D1 Instrument ID: VG-7 GC Column ID: DB-225

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
141028D1	1	CP141028D1-1	MAS	28-OCT-14	10:47:37	ST141028D1-4	NA
141028D1	2	SOLVENT BLANK	MAS	28-OCT-14	11:19:38	NA	NA
141028D1	3	ST141028D1-1	MAS	28-OCT-14	11:51:43	ST141028D1-4	NA
141028D1	4	ST141028D1-2	MAS	28-OCT-14	12:23:49	ST141028D1-4	NA
141028D1	5	ST141028D1-3	MAS	28-OCT-14	12:55:55	ST141028D1-4	NA
141028D1	6	ST141028D1-4	MAS	28-OCT-14	13:28:00	ST141028D1-4	ST141028D1-7
141028D1	7	ST141028D1-5	MAS	28-OCT-14	14:00:05	ST141028D1-4	NA
141028D1	8	ST141028D1-6	MAS	28-OCT-14	14:32:11	ST141028D1-4	NA
141028D1	9	SOLVENT BLANK	MAS	28-OCT-14	15:04:18	NA	NA
141028D1	10	SOLVENT BLANK	MAS	28-OCT-14	15:36:25	NA	NA
141028D1	11	SS141028D1-1	MAS	28-OCT-14	16:08:31	ST141028D1-4	NA
141028D1	12	SOLVENT BLANK	MAS	28-OCT-14	16:40:40	NA	NA
141028D1	13	1400757-03RE1	MAS	28-OCT-14	17:12:41	ST141028D1-4	NA
141028D1	14	1400762-03RE1	MAS	28-OCT-14	17:44:46	ST141028D1-4	NA
141028D1	15	1400762-04RE1	MAS	28-OCT-14	18:16:50	ST141028D1-4	NA
141028D1	16	1400762-05RE1	MAS	28-OCT-14	18:48:55	ST141028D1-4	NA
141028D1	17	1400763-01RE1	MAS	28-OCT-14	19:20:59	ST141028D1-4	NA
141028D1	18	1400763-02RE1	MAS	28-OCT-14	19:53:07	ST141028D1-4	NA
141028D1	19	1400763-03RE1	MAS	28-OCT-14	20:25:15	ST141028D1-4	NA
141028D1	20	1400752-01RE1	MAS	28-OCT-14	20:57:24	ST141028D1-4	ST141028D1-7
141028D1	21	SOLVENT BLANK	MAS	28-OCT-14	21:29:31	NA	NA
141028D1	22	ST141028D1-7	MAS	28-OCT-14	22:01:36	ST141028D1-4	ST141028D1-7

CALIBRATION STANDARDS REVIEW CHECKLIST

Vista Analytical Laboratory

Beg. Calibration ID: ST141028D1-4 End Calibration ID: ST141028D1-7

	Beg.	End
Ion abundance within QC limits?	✓	✓
Concentration within range?	–	–
First and last eluters present?	NA	NA
Retention Times within criteria?	✓	–
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	✓	✓
Forms signed and dated?	✓	✓
Correct ICAL referenced?	✓	✓
Run Log:		
-Data file matches Conc Cal ID?	✓	✓
-Correct instrument listed?	✓	✓
-Samples within 12-hour clock?	y	n

	Beg.	End
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	✓	✓
TCDD/TCDF valleys < 25%?	✓	NA
Peaks integrated correctly?	✓	✓
Manual integrations included?	✓	–
8280 CS1 Ending Standard		
-Ratios within limits		NA
-S/N > 2.5:1		✓
-CS1 within 12-hour clock		✓

Comments:

Reviewed by: MZ 10/29/14
Initials & Date

* *Ending standard criteria applicable to 8290 only.*

Vista Analytical Laboratory
El Dorado Hills, CA 95762

Calib.Stds.Review 12/2009 rmh

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST141021E2-1 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 141021E2 S#1 Analysis Date: 21-OCT-14 Time: 20:12:38

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	2.94	2.66-3.60	y	42.5	37.5-62.5	PCB-52/69	0.74	0.65-0.89	y	96.1	75.0-125
PCB-2	2.99	2.66-3.60	y	43.7	37.5-62.5	PCB-73	0.76	0.65-0.89	y	51.6	37.5-62.5
PCB-3	2.95	2.66-3.60	y	43.0	37.5-62.5	PCB-43/49	0.76	0.65-0.89	y	96.5	75.0-125
PCB-4/10	1.62	1.33-1.79	y	201.9	150-250	PCB-47	0.74	0.65-0.89	y	47.2	37.5-62.5
PCB-7/9	1.62	1.33-1.79	y	198.0	150-250	PCB-48/75	0.76	0.65-0.89	y	99.5	75.0-125
PCB-6	1.62	1.33-1.79	y	94.9	75.0-125	PCB-65	0.75	0.65-0.89	y	47.3	37.5-62.5
PCB-5/8	1.61	1.33-1.79	y	199.6	150-250	PCB-62	0.76	0.65-0.89	y	47.1	37.5-62.5
PCB-14	1.62	1.33-1.79	y	99.0	75.0-125	PCB-44	0.74	0.65-0.89	y	46.2	37.5-62.5
PCB-11	1.63	1.33-1.79	y	99.3	75.0-125	PCB-42/59	0.75	0.65-0.89	y	94.0	75.0-125
PCB-12/13	1.60	1.33-1.79	y	200.5	150-250	PCB-41/64/71/72	0.76	0.65-0.89	y	193.3	150-250
PCB-15	1.60	1.33-1.79	y	97.3	75.0-125	PCB-68	0.76	0.65-0.89	y	49.9	37.5-62.5
PCB-19	1.06	0.88-1.20	y	48.3	37.5-62.5	PCB-40	0.75	0.65-0.89	y	47.7	37.5-62.5
PCB-30	1.05	0.88-1.20	y	51.3	37.5-62.5	PCB-57	0.76	0.65-0.89	y	50.8	37.5-62.5
PCB-18	1.04	0.88-1.20	y	48.4	37.5-62.5	PCB-67	0.74	0.65-0.89	y	48.7	37.5-62.5
PCB-17	1.05	0.88-1.20	y	48.9	37.5-62.5	PCB-58	0.76	0.65-0.89	y	46.2	37.5-62.5
PCB-24/27	1.05	0.88-1.20	y	100.5	75.0-125	PCB-63	0.75	0.65-0.89	y	48.2	37.5-62.5
PCB-16/32	1.05	0.88-1.20	y	97.1	75.0-125	PCB-74	0.75	0.65-0.89	y	47.8	37.5-62.5
PCB-34	1.04	0.88-1.20	y	48.4	37.5-62.5	PCB-61/70	0.75	0.65-0.89	y	96.6	75.0-125
PCB-23	1.04	0.88-1.20	y	47.1	37.5-62.5	PCB-76/66	0.76	0.65-0.89	y	98.2	75.0-125
PCB-29	1.04	0.88-1.20	y	47.2	37.5-62.5	PCB-80	0.76	0.65-0.89	y	47.9	37.5-62.5
PCB-26	1.04	0.88-1.20	y	47.4	37.5-62.5	PCB-55	0.76	0.65-0.89	y	49.2	37.5-62.5
PCB-25	1.05	0.88-1.20	y	48.1	37.5-62.5	PCB-56/60	0.75	0.65-0.89	y	94.8	75.0-125
PCB-31	1.01	0.88-1.20	y	43.8	37.5-62.5	PCB-79	0.76	0.65-0.89	y	48.8	37.5-62.5
PCB-28	1.05	0.88-1.20	y	47.5	37.5-62.5	PCB-78	0.75	0.65-0.89	y	48.9	37.5-62.5
PCB-20/21/33	1.03	0.88-1.20	y	133.7	112.5-225	PCB-81	0.76	0.65-0.89	y	48.4	37.5-62.5
PCB-22	1.04	0.88-1.20	y	46.9	37.5-62.5	PCB-77	0.76	0.65-0.89	y	47.9	37.5-62.5
PCB-36	1.04	0.88-1.20	y	48.4	37.5-62.5	PCB-104	1.56	1.32-1.78	y	48.1	37.5-62.5
PCB-39	1.03	0.88-1.20	y	46.0	37.5-62.5	PCB-96	1.58	1.32-1.78	y	50.0	37.5-62.5
PCB-38	1.04	0.88-1.20	y	48.5	37.5-62.5	PCB-103	1.58	1.32-1.78	y	52.5	37.5-62.5
PCB-35	1.03	0.88-1.20	y	45.5	37.5-62.5	PCB-100	1.57	1.32-1.78	y	50.0	37.5-62.5
PCB-37	1.02	0.88-1.20	y	46.8	37.5-62.5	PCB-94	1.56	1.32-1.78	y	49.6	37.5-62.5
PCB-54	0.75	0.65-0.89	y	48.9	37.5-62.5	PCB-95/98/102	1.56	1.32-1.78	y	151.3	112.5-225
PCB-50	0.76	0.65-0.89	y	46.7	37.5-62.5	PCB-93	1.59	1.32-1.78	y	48.2	37.5-62.5
PCB-53	0.75	0.65-0.89	y	46.7	37.5-62.5	PCB-88/91	1.54	1.32-1.78	y	107.8	75.0-125
PCB-51	0.75	0.65-0.89	y	48.6	37.5-62.5	PCB-121	1.63	1.32-1.78	y	47.4	37.5-62.5
PCB-45	0.76	0.65-0.89	y	48.8	37.5-62.5						
PCB-46	0.76	0.65-0.89	y	44.3	37.5-62.5						

Analyst: DMS

Date: 10/22/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST141021E2-1 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 141021E2 S#1 Analysis Date: 21-OCT-14 Time: 20:12:38

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-84/92	1.58	1.32-1.78	y	100.6	75.0-125	PCB-140	1.27	1.05-1.43	y	50.9	37.5-62.5
PCB-89	1.54	1.32-1.78	y	48.0	37.5-62.5	PCB-134/143	1.23	1.05-1.43	y	101.8	75.0-125
PCB-90/101	1.57	1.32-1.78	y	97.2	75.0-125	PCB-133/142	1.22	1.05-1.43	y	97.9	75.0-125
PCB-113	1.58	1.32-1.78	y	53.5	37.5-62.5	PCB-131	1.21	1.05-1.43	y	49.2	37.5-62.5
PCB-99	1.58	1.32-1.78	y	48.6	37.5-62.5	PCB-146/165	1.22	1.05-1.43	y	102.7	75.0-125
PCB-119	1.57	1.32-1.78	y	51.3	37.5-62.5	PCB-132/161	1.23	1.05-1.43	y	99.2	75.0-125
PCB-108/112	1.57	1.32-1.78	y	100.9	75.0-125	PCB-153	1.22	1.05-1.43	y	53.0	37.5-62.5
PCB-83	1.57	1.32-1.78	y	52.3	37.5-62.5	PCB-168	1.23	1.05-1.43	y	50.3	37.5-62.5
PCB-97	1.55	1.32-1.78	y	49.6	37.5-62.5	PCB-141	1.24	1.05-1.43	y	52.1	37.5-62.5
PCB-86	1.56	1.32-1.78	y	49.2	37.5-62.5	PCB-137	1.24	1.05-1.43	y	50.6	37.5-62.5
PCB-87/117/125	1.57	1.32-1.78	y	151.1	112.5-225	PCB-130	1.23	1.05-1.43	y	56.9	37.5-62.5
PCB-111/115	1.56	1.32-1.78	y	97.4	75.0-125	PCB-138/163/164	1.24	1.05-1.43	y	159.3	112.5-225
PCB-85/116	1.57	1.32-1.78	y	104.8	75.0-125	PCB-158/160	1.24	1.05-1.43	y	106.0	75.0-125
PCB-120	1.58	1.32-1.78	y	50.4	37.5-62.5	PCB-129	1.24	1.05-1.43	y	50.2	37.5-62.5
PCB-110	1.57	1.32-1.78	y	49.8	37.5-62.5	PCB-166	1.25	1.05-1.43	y	51.9	37.5-62.5
PCB-82	1.58	1.32-1.78	y	48.0	37.5-62.5	PCB-159	1.22	1.05-1.43	y	52.1	37.5-62.5
PCB-124	1.56	1.32-1.78	y	50.4	37.5-62.5	PCB-128/162	1.23	1.05-1.43	y	104.9	75.0-125
PCB-107/109	1.58	1.32-1.78	y	100.1	75.0-125	PCB-167	1.21	1.05-1.43	y	52.2	37.5-62.5
PCB-123	1.56	1.32-1.78	y	50.7	37.5-62.5	PCB-156	1.24	1.05-1.43	y	51.9	37.5-62.5
PCB-106/118	1.58	1.32-1.78	y	98.2	75.0-125	PCB-157	1.25	1.05-1.43	y	52.5	37.5-62.5
PCB-114	1.62	1.32-1.78	y	52.2	37.5-62.5	PCB-169	1.25	1.05-1.43	y	52.5	37.5-62.5
PCB-122	1.63	1.32-1.78	y	50.1	37.5-62.5	PCB-188	1.05	0.89-1.21	y	51.6	37.5-62.5
PCB-105	1.61	1.32-1.78	y	52.5	37.5-62.5	PCB-184	1.05	0.89-1.21	y	51.6	37.5-62.5
PCB-127	1.65	1.32-1.78	y	51.1	37.5-62.5	PCB-179	1.05	0.89-1.21	y	51.3	37.5-62.5
PCB-126	1.64	1.32-1.78	y	51.4	37.5-62.5	PCB-176	1.07	0.89-1.21	y	51.2	37.5-62.5
PCB-155	1.27	1.05-1.43	y	54.0	37.5-62.5	PCB-186	1.06	0.89-1.21	y	51.5	37.5-62.5
PCB-150	1.27	1.05-1.43	y	53.2	37.5-62.5	PCB-178	1.06	0.89-1.21	y	52.6	37.5-62.5
PCB-152	1.26	1.05-1.43	y	52.0	37.5-62.5	PCB-175	1.06	0.89-1.21	y	53.4	37.5-62.5
PCB-145	1.27	1.05-1.43	y	51.3	37.5-62.5	PCB-182/187	1.06	0.89-1.21	y	108.4	75.0-125
PCB-136	1.26	1.05-1.43	y	54.5	37.5-62.5	PCB-183	1.06	0.89-1.21	y	50.3	37.5-62.5
PCB-148	1.28	1.05-1.43	y	49.3	37.5-62.5	PCB-185	1.06	0.89-1.21	y	51.4	37.5-62.5
PCB-154	1.25	1.05-1.43	y	52.8	37.5-62.5	PCB-174	1.05	0.89-1.21	y	48.1	37.5-62.5
PCB-151	1.28	1.05-1.43	y	50.2	37.5-62.5	PCB-181	1.05	0.89-1.21	y	55.7	37.5-62.5
PCB-135	1.25	1.05-1.43	y	48.7	37.5-62.5	PCB-177	1.06	0.89-1.21	y	51.6	37.5-62.5
PCB-144	1.35	1.05-1.43	y	52.6	37.5-62.5	PCB-171	1.04	0.89-1.21	y	51.3	37.5-62.5
PCB-147	1.21	1.05-1.43	y	49.9	37.5-62.5	PCB-173	1.06	0.89-1.21	y	50.8	37.5-62.5
PCB-139/149	1.26	1.05-1.43	y	104.0	75.0-125	PCB-172	1.06	0.89-1.21	y	51.5	37.5-62.5

Analyst: DMS

Date: 10/22/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST141021E2-1 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 141021E2 S#1 Analysis Date: 21-OCT-14 Time: 20:12:38

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-192	1.06	0.89-1.21	y	54.4	37.5-62.5
PCB-180	1.05	0.89-1.21	y	50.6	37.5-62.5
PCB-193	1.05	0.89-1.21	y	52.6	37.5-62.5
PCB-191	1.05	0.89-1.21	y	55.8	37.5-62.5
PCB-170	1.05	0.89-1.21	y	51.7	37.5-62.5
PCB-190	1.06	0.89-1.21	y	54.2	37.5-62.5
PCB-189	1.06	0.89-1.21	y	53.6	37.5-62.5
PCB-202	0.91	0.76-1.02	y	49.4	37.5-62.5
PCB-201	0.91	0.76-1.02	y	49.2	37.5-62.5
PCB-204	0.91	0.76-1.02	y	51.2	37.5-62.5
PCB-197	0.90	0.76-1.02	y	49.9	37.5-62.5
PCB-200	0.91	0.76-1.02	y	51.6	37.5-62.5
PCB-198	0.89	0.76-1.02	y	45.6	37.5-62.5
PCB-199	0.90	0.76-1.02	y	53.4	37.5-62.5
PCB-196/203	0.90	0.76-1.02	y	101.0	75.0-125
PCB-195	0.91	0.76-1.02	y	54.6	37.5-62.5
PCB-194	0.86	0.76-1.02	y	49.6	37.5-62.5
PCB-205	0.89	0.76-1.02	y	50.6	37.5-62.5
PCB-208	1.32	1.14-1.54	y	49.4	37.5-62.5
PCB-207	1.32	1.14-1.54	y	50.7	37.5-62.5
PCB-206	1.33	1.14-1.54	y	50.1	37.5-62.5
PCB-209	1.16	0.99-1.33	y	51.2	37.5-62.5

Analyst: DMS

Date: 10/22/14

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST141021E2-1 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 141021E2 S#1 Analysis Date: 21-OCT-14 Time: 20:12:38

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-1	3.15	2.66-3.60	y	135.3	50.0-145
13C-PCB-3	3.20	2.66-3.60	y	132.8	50.0-145
13C-PCB-4	1.57	1.33-1.79	y	97.7	50.0-145
13C-PCB-9	1.56	1.33-1.79	y	100.8	50.0-145
13C-PCB-11	1.55	1.33-1.79	y	100.5	50.0-145
13C-PCB-19	1.07	0.88-1.20	y	115.3	50.0-145
13C-PCB-32	1.07	0.88-1.20	y	117.0	50.0-145
13C-PCB-28	1.04	0.88-1.20	y	99.3	50.0-145
13C-PCB-37	1.06	0.88-1.20	y	99.3	50.0-145
13C-PCB-54	0.79	0.65-0.89	y	94.7	50.0-145
13C-PCB-52	0.80	0.65-0.89	y	93.5	50.0-145
13C-PCB-47	0.79	0.65-0.89	y	94.3	50.0-145
13C-PCB-70	0.79	0.65-0.89	y	96.7	50.0-145
13C-PCB-80	0.79	0.65-0.89	y	99.2	50.0-145
13C-PCB-81	0.80	0.65-0.89	y	100.7	50.0-145
13C-PCB-77	0.79	0.65-0.89	y	100.1	50.0-145
13C-PCB-104	1.61	1.32-1.78	y	93.0	50.0-145
13C-PCB-95	1.61	1.32-1.78	y	93.4	50.0-145
13C-PCB-101	1.65	1.32-1.78	y	93.4	50.0-145
13C-PCB-97	1.63	1.32-1.78	y	97.0	50.0-145
13C-PCB-123	1.64	1.32-1.78	y	95.9	50.0-145
13C-PCB-118	1.62	1.32-1.78	y	98.4	50.0-145
13C-PCB-114	1.58	1.32-1.78	y	95.0	50.0-145
13C-PCB-105	1.58	1.32-1.78	y	93.8	50.0-145
13C-PCB-127	1.56	1.32-1.78	y	94.5	50.0-145
13C-PCB-126	1.56	1.32-1.78	y	97.4	50.0-145
13C-PCB-155	1.28	1.05-1.43	y	93.4	50.0-145
13C-PCB-153	1.29	1.05-1.43	y	97.4	50.0-145
13C-PCB-141	1.29	1.05-1.43	y	95.7	50.0-145
13C-PCB-138	1.26	1.05-1.43	y	98.6	50.0-145
13C-PCB-159	1.29	1.05-1.43	y	101.6	50.0-145
13C-PCB-167	1.27	1.05-1.43	y	101.2	50.0-145
13C-PCB-156	1.28	1.05-1.43	y	100.9	50.0-145
13C-PCB-157	1.27	1.05-1.43	y	98.8	50.0-145

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-169	1.28	1.05-1.43	y	99.7	50 - 145
13C-PCB-188	0.46	0.38-0.52	y	100.4	50 - 145
13C-PCB-180	0.46	0.38-0.52	y	101.0	50 - 145
13C-PCB-170	0.46	0.38-0.52	y	100.1	50 - 145
13C-PCB-189	0.46	0.38-0.52	y	103.9	50 - 145
13C-PCB-202	0.92	0.76-1.02	y	103.8	50 - 145
13C-PCB-194	0.91	0.76-1.02	y	100.4	50 - 145
13C-PCB-208	0.78	0.65-0.89	y	103.1	50 - 145
13C-PCB-206	0.79	0.65-0.89	y	98.0	50 - 145
13C-PCB-209	1.19	0.99-1.33	y	107.1	50 - 145

CRS vs. RS

13C-PCB-79	0.79	0.65-0.89	y	100.0	75 - 125
13C-PCB-178	0.46	0.38-0.52	y	102.1	75 - 125

Analyst: DMS

Date: 10/22/14

Client ID: PCB CS3 14I1807 Filename: 141021E2 S:1 Acq:21-OCT-14 20:12:38 ConCal: ST141021E2-1
Lab ID: ST141021E2-1 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-1	3.31e+08	2.94	y	1.25	16:28	1.001	0.996	1.006	42.4607
	PCB-2	3.28e+08	2.99	y	1.18	18:45	0.989	0.983	0.993	43.6640
	PCB-3	3.33e+08	2.95	y	1.22	18:59	1.001	0.996	1.006	43.0096
	PCB-4/10	8.66e+08	1.62	y	1.55	20:19	1.003	0.998	1.008	201.884
	PCB-7/9	1.08e+09	1.62	y	1.27	22:01	0.871	0.865	0.873	198.045
	PCB-6	5.14e+08	1.62	y	1.26	22:40	0.896	0.890	0.899	94.9039
	PCB-5/8	1.06e+09	1.61	y	1.23	23:04	0.912	0.906	0.916	199.609
	PCB-14	5.93e+08	1.62	y	1.23	24:08	0.954	0.949	0.959	99.0186
	PCB-11	5.60e+08	1.63	y	1.16	25:18	1.001	0.996	1.006	99.3230
	PCB-12/13	1.07e+09	1.60	y	1.10	25:42	1.016	1.010	1.020	200.508
	PCB-15	5.72e+08	1.60	y	1.21	26:00	1.028	1.024	1.034	97.3232
	PCB-19	1.98e+08	1.06	y	1.30	24:20	1.001	0.996	1.006	48.2974
	PCB-30	2.98e+08	1.05	y	1.83	25:11	1.036	1.032	1.042	51.3436
	PCB-18	2.04e+08	1.04	y	0.86	25:55	0.954	0.949	0.959	48.3895
	PCB-17	2.16e+08	1.05	y	0.90	26:06	0.961	0.955	0.965	48.8558
	PCB-24/27	5.81e+08	1.05	y	1.18	26:40	0.982	0.976	0.986	100.501
-	PCB-16/32	4.92e+08	1.05	y	1.03	27:10	1.000	0.995	1.005	97.1358
-	PCB-34	2.48e+08	1.04	y	1.26	27:56	0.960	0.956	0.966	48.3664
	PCB-23	2.51e+08	1.04	y	1.31	28:02	0.964	0.959	0.969	47.0895
	PCB-29	2.55e+08	1.04	y	1.33	28:17	0.972	0.967	0.977	47.2233
	PCB-26	2.48e+08	1.04	y	1.29	28:29	0.979	0.974	0.984	47.3626
	PCB-25	2.62e+08	1.05	y	1.34	28:38	0.984	0.980	0.990	48.0637
	PCB-31	2.52e+08	1.01	y	1.42	29:00	0.997	0.992	1.002	43.7588
	PCB-28	2.66e+08	1.05	y	1.38	29:07	1.001	0.996	1.006	47.5185
	PCB-20/21/33	7.12e+08	1.03	y	1.31	29:43	1.022	1.017	1.027	133.742
	PCB-22	2.52e+08	1.04	y	1.32	30:09	1.036	1.032	1.042	46.9323
	PCB-36	2.53e+08	1.04	y	1.38	30:44	0.933	0.929	0.939	48.3897
	PCB-39	2.48e+08	1.03	y	1.42	31:13	0.948	0.943	0.953	46.0284
	PCB-38	2.49e+08	1.04	y	1.35	32:01	0.972	0.967	0.976	48.4606
	PCB-35	2.38e+08	1.03	y	1.38	32:31	0.987	0.982	0.992	45.5127
	PCB-37	2.48e+08	1.02	y	1.39	32:57	1.000	0.996	1.006	46.8426
	PCB-54	2.18e+08	0.75	y	1.20	28:02	1.001	0.996	1.006	48.8608
	PCB-50	1.69e+08	0.76	y	0.97	29:10	1.041	1.037	1.047	46.7477
	PCB-53	1.70e+08	0.75	y	1.19	29:48	0.947	0.941	0.951	46.6705
	PCB-51	1.72e+08	0.75	y	1.15	30:08	0.957	0.952	0.962	48.6145
	PCB-45	1.45e+08	0.76	y	0.97	30:34	0.971	0.966	0.976	48.8222
	PCB-46	1.29e+08	0.76	y	0.95	31:04	0.987	0.982	0.992	44.2677

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
PCB-52/69	3.77e+08	0.74	y	1.28	31:31	1.001	0.996	1.006	96.0882
PCB-73	2.18e+08	0.76	y	1.37	31:38	1.005	1.000	1.010	51.6348
PCB-43/49	3.30e+08	0.76	y	1.11	31:48	1.010	1.005	1.015	96.4755
PCB-47	1.74e+08	0.74	y	1.13	31:60	1.001	0.996	1.006	47.1872
PCB-48/75	4.22e+08	0.76	y	1.30	32:06	1.004	0.999	1.009	99.4967
PCB-65	2.05e+08	0.75	y	1.33	32:23	1.013	1.007	1.017	47.2892
PCB-62	1.98e+08	0.76	y	1.29	32:30	1.016	1.011	1.021	47.0768
PCB-44	1.41e+08	0.74	y	0.94	32:48	1.026	1.020	1.030	46.2236
PCB-42/59	3.72e+08	0.75	y	1.22	33:01	1.033	1.028	1.038	94.0443
PCB-41/64/71/72	8.25e+08	0.76	y	1.31	33:36	1.051	1.046	1.056	193.314
PCB-68	2.41e+08	0.76	y	1.49	33:51	1.058	1.054	1.064	49.9301
PCB-40	1.27e+08	0.75	y	0.82	34:05	1.066	1.061	1.071	47.7463
PCB-57	2.40e+08	0.76	y	1.11	34:26	0.970	0.965	0.975	50.7989
PCB-67	2.21e+08	0.74	y	1.07	34:44	0.979	0.974	0.984	48.6663
PCB-58	2.16e+08	0.76	y	1.10	34:51	0.982	0.977	0.987	46.2291
PCB-63	2.28e+08	0.75	y	1.12	35:00	0.987	0.982	0.992	48.1602
PCB-74	2.43e+08	0.75	y	1.20	35:17	0.995	0.990	1.000	47.7662
PCB-61/70	4.42e+08	0.75	y	1.08	35:28	1.000	0.994	1.004	96.6167
PCB-76/66	4.73e+08	0.76	y	1.14	35:41	1.006	1.001	1.011	98.2215
PCB-80	2.71e+08	0.76	y	1.28	35:54	1.001	0.996	1.006	47.9398
PCB-55	2.42e+08	0.76	y	1.11	36:15	1.010	1.005	1.015	49.2174
PCB-56/60	4.56e+08	0.75	y	1.09	36:45	1.024	1.018	1.028	94.7709
PCB-79	2.43e+08	0.76	y	1.12	37:48	1.053	1.048	1.058	48.8263
PCB-78	2.37e+08	0.75	y	1.24	38:30	0.987	0.982	0.992	48.8564
PCB-81	2.62e+08	0.76	y	1.38	39:02	1.000	0.995	1.005	48.3858
PCB-77	2.40e+08	0.76	y	1.21	39:37	1.000	0.995	1.005	47.9399
PCB-104	1.70e+08	1.56	y	1.26	32:39	1.001	0.996	1.006	48.0706
PCB-96	1.54e+08	1.58	y	1.09	33:55	1.039	1.034	1.044	50.0305
PCB-103	1.38e+08	1.58	y	0.93	34:26	1.055	1.050	1.060	52.5487
PCB-100	1.41e+08	1.57	y	1.00	34:48	1.066	1.061	1.071	50.0250
PCB-94	1.16e+08	1.56	y	1.11	35:16	0.986	0.981	0.991	49.5983
PCB-95/98/102	3.89e+08	1.56	y	1.21	35:44	0.999	0.994	1.004	151.261
PCB-93	1.15e+08	1.59	y	1.13	35:53	1.003	0.998	1.008	48.2150
PCB-88/91	2.33e+08	1.54	y	1.02	36:11	1.011	1.006	1.016	107.846
PCB-121	1.91e+08	1.63	y	1.90	36:16	1.014	1.009	1.019	47.4225
PCB-84/92	2.37e+08	1.58	y	1.05	37:06	0.990	0.986	0.996	100.570
PCB-89	1.09e+08	1.54	y	1.02	37:18	0.996	0.991	1.001	48.0250

RL: MONO, TRI - DECA: —

RL: DI : —

Integrations by Analyst: DMS Date: 10/22/14

Reviewed by Analyst: CJ Date: 10/22/14

Client ID: PCB CS3 14I1807 Filename: 141021E2 S:1 Acq:21-OCT-14 20:12:38 ConCal: ST141021E2-1

Lab ID: ST141021E2-1 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-90/101	2.59e+08	1.57	y	1.19	37:28	1.000	0.996	1.006	97.1691
	PCB-113	1.62e+08	1.58	y	1.35	37:43	1.007	1.002	1.012	53.4601
	PCB-99	1.40e+08	1.58	y	1.29	37:48	1.009	1.005	1.015	48.6401
	PCB-119	1.80e+08	1.57	y	1.72	38:16	0.987	0.982	0.992	51.3380
	PCB-108/112	2.65e+08	1.57	y	1.29	38:26	0.991	0.986	0.996	100.902
	PCB-83	1.62e+08	1.57	y	1.52	38:35	0.995	0.991	1.001	52.2933
	PCB-97	1.26e+08	1.55	y	1.25	38:47	1.000	0.996	1.006	49.6117
	PCB-86	1.03e+08	1.56	y	1.02	38:55	1.004	1.000	1.010	49.2146
	B-87/117/125	4.80e+08	1.57	y	1.56	39:03	1.007	1.002	1.012	151.150
	PCB-111/115	3.48e+08	1.56	y	1.75	39:12	1.011	1.007	1.017	97.3616
	PCB-85/116	2.78e+08	1.57	y	1.30	39:20	1.015	1.010	1.020	104.817
	PCB-120	1.83e+08	1.58	y	1.78	39:34	1.021	1.016	1.026	50.4275
	PCB-110	1.71e+08	1.57	y	1.68	39:43	1.024	1.020	1.030	49.7759
	PCB-82	9.84e+07	1.58	y	0.74	40:22	0.977	0.972	0.982	48.0095
	PCB-124	1.85e+08	1.56	y	1.32	41:01	0.992	0.988	0.998	50.4367
	PCB-107/109	3.40e+08	1.58	y	1.22	41:11	0.997	0.991	1.001	100.133
	PCB-123	1.71e+08	1.56	y	1.22	41:21	1.001	0.995	1.005	50.6683
-	PCB-106/118	3.56e+08	1.58	y	1.22	41:33	1.001	0.996	1.006	98.1925
-	PCB-114	1.95e+08	1.62	y	1.36	42:12	1.000	0.995	1.005	52.2108
	PCB-122	1.71e+08	1.63	y	1.24	42:20	1.004	0.999	1.009	50.1086
	PCB-105	1.88e+08	1.61	y	1.28	43:04	1.000	0.995	1.005	52.5430
	PCB-127	1.78e+08	1.65	y	1.14	43:23	1.000	0.995	1.005	51.1329
	PCB-126	1.80e+08	1.64	y	1.28	45:18	1.000	0.995	1.005	51.4461
	PCB-155	1.45e+08	1.27	y	1.14	37:01	1.001	0.966	1.006	53.9789
	PCB-150	1.34e+08	1.27	y	1.06	38:18	1.035	1.030	1.040	53.1600
	PCB-152	1.35e+08	1.26	y	1.10	38:47	1.048	1.043	1.053	51.9798
	PCB-145	1.33e+08	1.27	y	1.09	39:13	1.060	1.055	1.065	51.3004
	PCB-136	1.40e+08	1.26	y	1.08	39:33	1.069	1.064	1.074	54.4642
	PCB-148	8.66e+07	1.28	y	0.74	39:38	1.071	1.066	1.076	49.2965
	PCB-154	1.11e+08	1.25	y	0.88	40:08	1.084	1.079	1.089	52.7737
	PCB-151	9.63e+07	1.28	y	0.81	40:46	1.102	1.097	1.107	50.2444
	PCB-135	8.99e+07	1.25	y	0.78	40:59	1.108	1.101	1.113	48.6668
	PCB-144	1.02e+08	1.35	y	0.82	41:06	1.111	1.105	1.116	52.5762
	PCB-147	9.81e+07	1.21	y	0.83	41:14	1.114	1.011	1.120	49.9281
	PCB-139/149	2.08e+08	1.26	y	0.84	41:30	1.121	1.115	1.127	103.961
-	PCB-140	9.48e+07	1.27	y	0.79	41:41	1.127	1.120	1.132	50.9391
-	PCB-134/143	2.46e+08	1.23	y	0.93	42:07	0.975	0.970	0.980	101.771

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-133/142	2.41e+08	1.22	y	0.95	42:25	0.982	0.977	0.987	97.9216
	PCB-131	1.17e+08	1.21	y	0.91	42:35	0.986	0.981	0.991	49.1727
	PCB-146/165	3.09e+08	1.22	y	1.16	42:47	0.991	0.986	0.996	102.746
	PCB-132/161	2.88e+08	1.23	y	1.11	43:03	0.997	0.992	1.002	99.1912
	PCB-153	1.63e+08	1.22	y	1.18	43:12	1.000	0.995	1.005	53.0164
	PCB-168	1.80e+08	1.23	y	1.37	43:25	1.005	1.000	1.010	50.3460
	PCB-141	1.25e+08	1.24	y	0.97	43:57	1.000	0.996	1.005	52.1452
	PCB-137	1.34e+08	1.24	y	1.07	44:20	1.009	1.004	1.014	50.6287
	PCB-130	1.19e+08	1.23	y	0.85	44:26	1.011	1.007	1.017	56.8665
	PCB-138/163/164	4.82e+08	1.24	y	1.23	44:49	1.001	0.996	1.006	159.275
	PCB-158/160	3.38e+08	1.24	y	1.29	45:04	1.006	1.001	1.011	105.999
	PCB-129	1.15e+08	1.24	y	0.92	45:18	1.012	1.007	1.017	50.1557
	PCB-166	1.70e+08	1.25	y	1.12	45:46	0.993	0.988	0.998	51.9307
	PCB-159	1.78e+08	1.22	y	1.16	46:06	1.001	0.995	1.005	52.1329
	PCB-128/162	3.13e+08	1.23	y	1.02	46:23	1.007	1.002	1.012	104.875
	PCB-167	1.78e+08	1.21	y	1.06	46:46	1.000	0.995	1.005	52.2020
	PCB-156	1.85e+08	1.24	y	1.18	48:06	1.000	0.995	1.005	51.8554
	PCB-157	1.77e+08	1.25	y	1.08	48:22	1.000	0.995	1.005	52.5369
	PCB-169	1.69e+08	1.25	y	1.11	50:23	1.000	0.995	1.005	52.5054
	PCB-188	1.64e+08	1.05	y	1.40	42:51	1.001	0.995	1.005	51.6471
	PCB-184	1.44e+08	1.05	y	1.24	43:18	1.011	1.006	1.016	51.5854
	PCB-179	1.51e+08	1.05	y	1.30	44:05	1.030	1.024	1.034	51.3421
	PCB-176	1.57e+08	1.07	y	1.36	44:33	1.041	1.035	1.045	51.1744
	PCB-186	1.48e+08	1.06	y	1.28	45:10	1.055	1.049	1.059	51.5006
	PCB-178	1.11e+08	1.06	y	0.94	45:39	1.066	1.061	1.071	52.5769
	PCB-175	1.17e+08	1.06	y	0.97	45:60	1.074	1.069	1.079	53.4330
	PCB-182/187	2.48e+08	1.06	y	1.01	46:10	1.078	1.073	1.083	108.352
	PCB-183	1.23e+08	1.06	y	1.08	46:30	1.086	1.080	1.090	50.2699
	PCB-185	1.13e+08	1.06	y	1.34	47:10	0.956	0.951	0.961	51.4059
	PCB-174	1.05e+08	1.05	y	1.34	47:31	0.963	0.958	0.968	48.1276
	PCB-181	1.24e+08	1.05	y	1.36	47:38	0.966	0.961	0.971	55.6936
	PCB-177	1.05e+08	1.06	y	1.24	47:48	0.969	0.964	0.974	51.6270
	PCB-171	1.10e+08	1.04	y	1.31	48:06	0.975	0.970	0.980	51.2813
	PCB-173	9.63e+07	1.06	y	1.16	48:32	0.984	0.979	0.989	50.7714
	PCB-172	1.03e+08	1.06	y	1.22	48:59	0.993	0.988	0.998	51.5233
	PCB-192	1.36e+08	1.06	y	1.53	49:09	0.996	0.991	1.001	54.3754
	PCB-180	1.18e+08	1.05	y	1.43	49:21	1.000	0.995	1.005	50.6390

RL: MONO, TRI - DECA: ———

Integrations by Analyst: DMS

Date: 10/22/14

Client ID: PCB CS3 14I1807 Filename: 141021E2 S:1 Acq:21-OCT-14 20:12:38 ConCal: ST141021E2-1

Lab ID: ST141021E2-1 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-193	1.42e+08	1.05	y	1.65	49:32	1.004	0.999	1.009	52.6017
	PCB-191	1.53e+08	1.05	y	1.67	49:46	1.009	1.004	1.014	55.7771
	PCB-170	9.99e+07	1.05	y	1.50	50:44	1.000	0.995	1.005	51.7338
	PCB-190	1.41e+08	1.06	y	2.02	50:54	1.003	0.998	1.008	54.1520
	PCB-189	1.48e+08	1.06	y	1.54	52:10	1.000	0.995	1.005	53.6227
	PCB-202	1.07e+08	0.91	y	1.04	48:18	1.000	0.995	1.005	49.4278
	PCB-201	1.13e+08	0.91	y	1.10	48:47	1.010	1.006	1.016	49.2105
	PCB-204	1.06e+08	0.91	y	0.99	48:57	1.014	1.009	1.019	51.2407
	PCB-197	1.11e+08	0.90	y	1.07	49:14	1.020	1.015	1.025	49.9352
	PCB-200	1.09e+08	0.91	y	1.02	50:03	1.036	1.032	1.044	51.5656
	PCB-198	7.05e+07	0.89	y	0.74	51:17	1.062	1.058	1.068	45.6435
	PCB-199	8.08e+07	0.90	y	0.73	51:23	1.064	1.060	1.070	53.4057
-	PCB-196/203	1.62e+08	0.90	y	0.77	51:39	1.070	1.066	1.076	100.976
-	PCB-195	9.45e+07	0.91	y	1.20	52:47	0.983	0.979	0.989	54.6449
	PCB-194	8.91e+07	0.86	y	1.25	53:41	1.000	0.995	1.005	49.5738
	PCB-205	1.03e+08	0.89	y	1.41	53:59	1.006	1.001	1.011	50.6102
	PCB-208	9.76e+07	1.32	y	0.96	52:55	1.000	0.995	1.005	49.3726
	PCB-207	9.55e+07	1.32	y	0.92	53:14	1.006	1.001	1.011	50.7399
	PCB-206	5.89e+07	1.33	y	1.03	55:26	1.000	0.995	1.005	50.1278
	PCB-209	7.01e+07	1.16	y	1.18	56:43	1.000	0.995	1.005	51.1935

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	9.92e+08	2.94	y	16:28	1.22	129.134	
Total Di-PCB	6.33e+09	1.62	y	20:19	1.21	1194.09	
Total Tri-PCB	1.99e+09	1.06	y	24:20	1.16	394.523	
Total Tri-PCB	4.04e+09	1.04	y	27:56	1.35	756.036	Sum:1150.56
Total Tetra-PCB	8.73e+09	0.75	y	28:02	1.17	2042.98	
Total Penta-PCB	6.02e+09	1.56	y	32:39	1.21	2062.29	
Total Penta-PCB	9.78e+08	1.62	y	42:12	1.26	276.273	Sum:2338.57
Total Hexa-PCB	1.57e+09	1.27	y	37:01	0.92	723.269	
Total Hexa-PCB	4.29e+09	1.23	y	42:07	1.08	1467.76	Sum:2191.03
Total Hepta-PCB	3.09e+09	1.05	y	42:51	1.27	1268.42	
Total Octa-PCB	8.59e+08	0.91	y	48:18	0.92	451.405	
Total Octa-PCB	2.87e+08	0.91	y	52:47	1.29	154.829	Sum:606.234
Total Nona-PCB	2.55e+08	1.32	y	52:55	0.96	152.150	
Total Deca-PCB	7.01e+07	1.16	y	56:43	1.18	51.1935	

Total PCB Conc:11030.5253640

RL: MONO, TRI - DECA: —

Integrations by Analyst: DMS

Date: 10/22/14

Client ID: PCB CS3 14I1807 Filename: 141021E2 S:1 Acq:21-OCT-14 20:12:38 ConCal: ST141021E2-1
Lab ID: ST141021E2-1 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	6.21e+08	3.15 y	0.89	16:27	0.633	0.622	0.628 *	135	135
13C-PCB-3	6.35e+08	3.20 y	0.93	18:58	0.730	0.721	0.729 ↓	133	133
13C-PCB-4	2.76e+08	1.57 y	0.55	20:16	0.780	0.772	0.780	97.7	97.7
13C-PCB-9	4.30e+08	1.56 y	0.83	21:59	0.846	0.840	0.848	101	101
13C-PCB-11	4.86e+08	1.55 y	0.94	25:17	0.973	0.968	0.978	101	101
13C-PCB-19	3.17e+08	1.07 y	0.53	24:18	0.935	0.929	0.939	115	115
13C-PCB-28	4.06e+08	1.04 y	0.89	29:05	1.004	0.999	1.009	99.3	99.3
13C-PCB-32	4.92e+08	1.07 y	0.81	27:10	1.045	1.041	1.051	117	117
13C-PCB-37	3.80e+08	1.06 y	0.83	32:56	1.137	1.131	1.143	99.3	99.3
13C-PCB-47	3.25e+08	0.79 y	0.74	31:59	0.871	0.867	0.875	94.3	94.3
13C-PCB-52	3.07e+08	0.80 y	0.71	31:28	0.857	0.853	0.861	93.5	93.5
13C-PCB-54	3.73e+08	0.79 y	0.85	28:00	0.763	0.758	0.766	94.7	94.7
13C-PCB-70	4.23e+08	0.79 y	0.94	35:28	0.966	0.961	0.971	96.7	96.7
13C-PCB-77	4.15e+08	0.79 y	0.89	39:36	1.078	1.073	1.083	100	100
13C-PCB-80	4.43e+08	0.79 y	0.96	35:53	0.977	0.972	0.982	99.2	99.2
13C-PCB-81	3.92e+08	0.80 y	0.84	39:01	1.062	1.057	1.067	101	101
13C-PCB-95	2.12e+08	1.61 y	0.74	35:47	0.913	0.908	0.918	93.4	93.4
13C-PCB-97	2.04e+08	1.63 y	0.69	38:46	0.989	0.984	0.994	97.0	97.0
13C-PCB-101	2.24e+08	1.65 y	0.79	37:27	0.956	0.951	0.961	93.4	93.4
13C-PCB-104	2.82e+08	1.61 y	1.00	32:38	0.833	0.829	0.837	93.0	93.0
13C-PCB-105	2.79e+08	1.58 y	1.24	43:03	0.928	0.924	0.934	93.8	93.8
13C-PCB-114	2.75e+08	1.58 y	1.21	42:11	0.910	0.905	0.915	95.0	95.0
13C-PCB-118	2.96e+08	1.62 y	0.98	41:31	1.059	1.054	1.064	98.4	98.4
13C-PCB-123	2.78e+08	1.64 y	0.95	41:20	1.055	1.049	1.059	95.9	95.9
13C-PCB-126	2.72e+08	1.56 y	1.16	45:18	0.977	0.972	0.982	97.4	97.4
13C-PCB-127	3.05e+08	1.56 y	1.34	43:22	0.935	0.931	0.941	94.5	94.5
13C-PCB-138	2.47e+08	1.26 y	1.04	44:47	0.966	0.961	0.971	98.6	98.6
13C-PCB-141	2.46e+08	1.29 y	1.07	43:56	0.948	0.943	0.953	95.7	95.7
13C-PCB-153	2.61e+08	1.29 y	1.11	43:11	0.931	0.927	0.937	97.4	97.4
13C-PCB-155	2.37e+08	1.28 y	0.83	37:00	0.944	0.939	0.949	93.4	93.4
13C-PCB-156	3.02e+08	1.28 y	1.24	48:05	1.037	1.032	1.042	101	101
13C-PCB-157	3.11e+08	1.27 y	1.31	48:21	1.043	1.037	1.047	98.8	98.8
13C-PCB-159	2.93e+08	1.29 y	1.20	46:04	0.994	0.989	0.999	102	102
13C-PCB-167	3.21e+08	1.27 y	1.32	46:46	1.009	1.004	1.014	101	101
13C-PCB-169	2.91e+08	1.28 y	1.22	50:23	1.087	1.082	1.092	99.7	99.7
13C-PCB-170	1.29e+08	0.46 y	0.54	50:43	1.094	1.089	1.101	100	100
13C-PCB-180	1.64e+08	0.46 y	0.67	49:20	1.064	1.059	1.069	101	101
13C-PCB-188	2.26e+08	0.46 y	0.94	42:49	0.924	0.919	0.929	100	100
13C-PCB-189	1.79e+08	0.46 y	0.72	52:09	1.125	1.120	1.132	104	104
13C-PCB-194	1.44e+08	0.91 y	0.81	53:41	0.994	0.990	1.000	100	100
13C-PCB-202	2.08e+08	0.92 y	0.83	48:17	1.041	1.036	1.046	104	104
13C-PCB-206	1.14e+08	0.79 y	0.66	55:26	1.027	1.021	1.031	98.0	98.0
13C-PCB-208	2.05e+08	0.78 y	1.12	52:54	0.980	0.976	0.986	103	103
13C-PCB-209	1.16e+08	1.19 y	0.61	56:42	1.051	1.044	1.054	107	107

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	4.66e+08	0.79 y	1.01	37:47	1.029	1.023	1.033	100	100
13C-PCB-178	1.55e+08	0.46 y	0.63	45:38	0.984	0.979	0.989	102	102

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	4.66e+08	0.79 y	1.20	37:47	0.968	0.963	0.973	99.3	99.3
13C-PCB-178	1.55e+08	0.46 y	0.94	45:38	0.925	0.920	0.930	101	101

RS

Name	Resp	RA	RRF	RT	Conc
13C-PCB-15	5.17e+08	1.56 y	1.00	25:59	100
13C-PCB-31	4.60e+08	1.05 y	1.00	28:59	100
13C-PCB-60	4.64e+08	0.80 y	1.00	36:43	100
13C-PCB-111	3.05e+08	1.61 y	1.00	39:11	100
13C-PCB-128	2.40e+08	1.28 y	1.00	46:22	100
13C-PCB-205	1.77e+08	0.90 y	1.00	53:58	100

* = RRT limits used for DATA processing only. RRT within METHOD 1668A & E limits. DMS 10/22/14

Analyst: DMS

Date: 10/22/14

Vista Analytical Laboratory - Injection Log Run file: 141021E2 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
141021E2	1	ST141021E2-1	DMS	21-OCT-14	20:12:38	ST141021E2-1	NA
141021E2	2	B4J0110-BS3	DMS	21-OCT-14	21:16:06	ST141021E2-1	NA
141021E2	3	B4J0110-BS2	DMS	21-OCT-14	22:19:35	ST141021E2-1	NA
141021E2	4	B4J0110-BS1	DMS	21-OCT-14	23:23:06	ST141021E2-1	NA
141021E2	5	SOLVENT BLANK	DMS	22-OCT-14	00:26:40	ST141021E2-1	NA
141021E2	6	B4J0110-BLK1	DMS	22-OCT-14	01:30:11	ST141021E2-1	NA
141021E2	7	1400762-01	DMS	22-OCT-14	02:33:44	ST141021E2-1	NA
141021E2	8	1400762-02	DMS	22-OCT-14	03:37:15	ST141021E2-1	NA
141021E2	9	1400774-01	DMS	22-OCT-14	04:40:43	ST141021E2-1	NA
141021E2	10	SOLVENT BLANK	DMS	22-OCT-14	05:44:13	ST141021E2-1	NA
141021E2	11	SOLVENT BLANK	DMS	22-OCT-14	06:47:46	ST141021E2-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST

Vista Analytical Laboratory

Beg. Calibration ID: ST14102IE2-1

End Calibration ID: NA

	Beg.	End
Ion abundance within QC limits?	✓	NA
Concentration within range?	✓	
First and last eluters present?	NA ✓ 10/22/14	
Retention Times within criteria?	✓ 10/22/14	
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	✓	
Forms signed and dated?	✓	
Correct ICAL referenced?	✓	
Run Log:		
-Data file matches Conc Cal ID?	✓	✓
-Correct instrument listed?	✓	
-Samples within 12-hour clock?	(y)	n

	Beg.	End
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	✓	✓
TCDD/TCDF valleys < 25%?	NA	NA
Peaks integrated correctly?	✓	
Manual integrations included?	✓	
8280 CS1 Ending Standard		
-Ratios within limits		
-S/N > 2.5:1		
-CS1 within 12-hour clock		

Comments:

Reviewed by: CJS 10/22/14
Initials & Date

* *Ending standard criteria applicable to 8290 only.*

Vista Analytical Laboratory
El Dorado Hills, CA 95762

Calib.Stds.Review 12/2009 rmh

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST141024E2-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 141024E2 S#1 Analysis Date: 25-OCT-14 Time: 02:10:53

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	2.91	2.66-3.60	y	37.6	37.5-62.5
PCB-2	2.94	2.66-3.60	y	38.1	37.5-62.5
PCB-3	2.92	2.66-3.60	y	38.1	37.5-62.5
PCB-4/10	1.61	1.33-1.79	y	195.5	150-250
PCB-7/9	1.63	1.33-1.79	y	193.7	150-250
PCB-6	1.64	1.33-1.79	y	93.6	75.0-125
PCB-5/8	1.63	1.33-1.79	y	195.7	150-250
PCB-14	1.62	1.33-1.79	y	98.6	75.0-125
PCB-11	1.63	1.33-1.79	y	97.0	75.0-125
PCB-12/13	1.63	1.33-1.79	y	192.7	150-250
PCB-15	1.65	1.33-1.79	y	97.7	75.0-125
PCB-19	1.05	0.88-1.20	y	46.5	37.5-62.5
PCB-30	1.05	0.88-1.20	y	47.2	37.5-62.5
PCB-18	1.05	0.88-1.20	y	47.4	37.5-62.5
PCB-17	1.05	0.88-1.20	y	46.9	37.5-62.5
PCB-24/27	1.06	0.88-1.20	y	94.3	75.0-125
PCB-16/32	1.04	0.88-1.20	y	92.4	75.0-125
PCB-34	1.04	0.88-1.20	y	46.8	37.5-62.5
PCB-23	1.06	0.88-1.20	y	52.3	37.5-62.5
PCB-29	1.05	0.88-1.20	y	51.0	37.5-62.5
PCB-26	1.05	0.88-1.20	y	51.1	37.5-62.5
PCB-25	1.04	0.88-1.20	y	49.7	37.5-62.5
PCB-31	1.03	0.88-1.20	y	45.6	37.5-62.5
PCB-28	1.04	0.88-1.20	y	50.6	37.5-62.5
PCB-20/21/33	1.06	0.88-1.20	y	154.8	112.5-225
PCB-22	1.05	0.88-1.20	y	48.3	37.5-62.5
PCB-36	1.05	0.88-1.20	y	52.6	37.5-62.5
PCB-39	1.06	0.88-1.20	y	53.0	37.5-62.5
PCB-38	1.05	0.88-1.20	y	52.8	37.5-62.5
PCB-35	1.05	0.88-1.20	y	57.9	37.5-62.5
PCB-37	1.08	0.88-1.20	y	51.8	37.5-62.5
PCB-54	0.75	0.65-0.89	y	45.6	37.5-62.5
PCB-50	0.74	0.65-0.89	y	45.7	37.5-62.5
PCB-53	0.75	0.65-0.89	y	46.0	37.5-62.5
PCB-51	0.74	0.65-0.89	y	44.6	37.5-62.5
PCB-45	0.74	0.65-0.89	y	46.3	37.5-62.5
PCB-46	0.73	0.65-0.89	y	45.6	37.5-62.5
PCB-52/69	0.73	0.65-0.89	y	96.0	75.0-125
PCB-73	0.75	0.65-0.89	y	43.6	37.5-62.5
PCB-43/49	0.74	0.65-0.89	y	92.1	75.0-125
PCB-47	0.73	0.65-0.89	y	42.9	37.5-62.5
PCB-48/75	0.74	0.65-0.89	y	94.1	75.0-125
PCB-65	0.73	0.65-0.89	y	46.2	37.5-62.5
PCB-62	0.75	0.65-0.89	y	47.1	37.5-62.5
PCB-44	0.73	0.65-0.89	y	45.6	37.5-62.5
PCB-42/59	0.74	0.65-0.89	y	89.3	75.0-125
PCB-41/64/71/72	0.74	0.65-0.89	y	180.0	150-250
PCB-68	0.73	0.65-0.89	y	46.6	37.5-62.5
PCB-40	0.73	0.65-0.89	y	47.1	37.5-62.5
PCB-57	0.73	0.65-0.89	y	46.7	37.5-62.5
PCB-67	0.73	0.65-0.89	y	44.0	37.5-62.5
PCB-58	0.74	0.65-0.89	y	47.4	37.5-62.5
PCB-63	0.75	0.65-0.89	y	45.6	37.5-62.5
PCB-74	0.74	0.65-0.89	y	44.8	37.5-62.5
PCB-61/70	0.74	0.65-0.89	y	94.5	75.0-125
PCB-76/66	0.74	0.65-0.89	y	91.8	75.0-125
PCB-80	0.75	0.65-0.89	y	46.9	37.5-62.5
PCB-55	0.74	0.65-0.89	y	45.9	37.5-62.5
PCB-56/60	0.73	0.65-0.89	y	91.1	75.0-125
PCB-79	0.75	0.65-0.89	y	45.1	37.5-62.5
PCB-78	0.73	0.65-0.89	y	44.1	37.5-62.5
PCB-81	0.75	0.65-0.89	y	44.5	37.5-62.5
PCB-77	0.76	0.65-0.89	y	46.0	37.5-62.5
PCB-104	1.60	1.32-1.78	y	50.4	37.5-62.5
PCB-96	1.57	1.32-1.78	y	49.3	37.5-62.5
PCB-103	1.57	1.32-1.78	y	49.7	37.5-62.5
PCB-100	1.57	1.32-1.78	y	50.6	37.5-62.5
PCB-94	1.57	1.32-1.78	y	47.4	37.5-62.5
PCB-95/98/102	1.57	1.32-1.78	y	153.1	112.5-225
PCB-93	1.61	1.32-1.78	y	45.0	37.5-62.5
PCB-88/91	1.56	1.32-1.78	y	109.4	75.0-125
PCB-121	1.61	1.32-1.78	y	45.5	37.5-62.5

Analyst: DMS

Date: 10/28/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST141024E2-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 141024E2 S#1 Analysis Date: 25-OCT-14 Time: 02:10:53

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-84/92	1.56	1.32-1.78	y	97.3	75.0-125	PCB-140	1.24	1.05-1.43	y	52.3	37.5-62.5
PCB-89	1.55	1.32-1.78	y	48.7	37.5-62.5	PCB-134/143	1.23	1.05-1.43	y	89.0	75.0-125
PCB-90/101	1.57	1.32-1.78	y	97.9	75.0-125	PCB-133/142	1.23	1.05-1.43	y	88.9	75.0-125
PCB-113	1.54	1.32-1.78	y	49.6	37.5-62.5	PCB-131	1.23	1.05-1.43	y	44.7	37.5-62.5
PCB-99	1.57	1.32-1.78	y	49.3	37.5-62.5	PCB-146/165	1.23	1.05-1.43	y	88.6	75.0-125
PCB-119	1.57	1.32-1.78	y	49.7	37.5-62.5	PCB-132/161	1.22	1.05-1.43	y	87.3	75.0-125
PCB-108/112	1.56	1.32-1.78	y	96.4	75.0-125	PCB-153	1.26	1.05-1.43	y	46.1	37.5-62.5
PCB-83	1.62	1.32-1.78	y	47.5	37.5-62.5	PCB-168	1.22	1.05-1.43	y	45.2	37.5-62.5
PCB-97	1.55	1.32-1.78	y	48.4	37.5-62.5	PCB-141	1.23	1.05-1.43	y	45.0	37.5-62.5
PCB-86	1.55	1.32-1.78	y	53.6	37.5-62.5	PCB-137	1.21	1.05-1.43	y	45.7	37.5-62.5
PCB-87/117/125	1.57	1.32-1.78	y	148.0	112.5-225	PCB-130	1.23	1.05-1.43	y	46.2	37.5-62.5
PCB-111/115	1.57	1.32-1.78	y	94.7	75.0-125	PCB-138/163/164	1.23	1.05-1.43	y	134.0	112.5-225
PCB-85/116	1.56	1.32-1.78	y	102.6	75.0-125	PCB-158/160	1.21	1.05-1.43	y	92.1	75.0-125
PCB-120	1.60	1.32-1.78	y	50.4	37.5-62.5	PCB-129	1.21	1.05-1.43	y	45.5	37.5-62.5
PCB-110	1.60	1.32-1.78	y	48.7	37.5-62.5	PCB-166	1.21	1.05-1.43	y	44.6	37.5-62.5
PCB-82	1.55	1.32-1.78	y	49.0	37.5-62.5	PCB-159	1.24	1.05-1.43	y	46.0	37.5-62.5
PCB-124	1.57	1.32-1.78	y	49.5	37.5-62.5	PCB-128/162	1.21	1.05-1.43	y	89.4	75.0-125
PCB-107/109	1.56	1.32-1.78	y	94.5	75.0-125	PCB-167	1.21	1.05-1.43	y	45.7	37.5-62.5
PCB-123	1.55	1.32-1.78	y	49.0	37.5-62.5	PCB-156	1.22	1.05-1.43	y	46.1	37.5-62.5
PCB-106/118	1.58	1.32-1.78	y	97.6	75.0-125	PCB-157	1.24	1.05-1.43	y	44.2	37.5-62.5
PCB-114	1.61	1.32-1.78	y	51.0	37.5-62.5	PCB-169	1.21	1.05-1.43	y	43.2	37.5-62.5
PCB-122	1.63	1.32-1.78	y	52.6	37.5-62.5	PCB-188	1.05	0.89-1.21	y	47.4	37.5-62.5
PCB-105	1.60	1.32-1.78	y	50.7	37.5-62.5	PCB-184	1.05	0.89-1.21	y	47.6	37.5-62.5
PCB-127	1.64	1.32-1.78	y	50.6	37.5-62.5	PCB-179	1.05	0.89-1.21	y	47.5	37.5-62.5
PCB-126	1.63	1.32-1.78	y	51.4	37.5-62.5	PCB-176	1.05	0.89-1.21	y	47.2	37.5-62.5
PCB-155	1.25	1.05-1.43	y	48.3	37.5-62.5	PCB-186	1.06	0.89-1.21	y	48.3	37.5-62.5
PCB-150	1.25	1.05-1.43	y	49.0	37.5-62.5	PCB-178	1.04	0.89-1.21	y	48.3	37.5-62.5
PCB-152	1.25	1.05-1.43	y	48.4	37.5-62.5	PCB-175	1.05	0.89-1.21	y	49.4	37.5-62.5
PCB-145	1.25	1.05-1.43	y	48.4	37.5-62.5	PCB-182/187	1.04	0.89-1.21	y	97.3	75.0-125
PCB-136	1.27	1.05-1.43	y	52.6	37.5-62.5	PCB-183	1.05	0.89-1.21	y	48.1	37.5-62.5
PCB-148	1.24	1.05-1.43	y	44.1	37.5-62.5	PCB-185	1.04	0.89-1.21	y	46.3	37.5-62.5
PCB-154	1.25	1.05-1.43	y	51.0	37.5-62.5	PCB-174	1.05	0.89-1.21	y	46.3	37.5-62.5
PCB-151	1.25	1.05-1.43	y	50.1	37.5-62.5	PCB-181	1.07	0.89-1.21	y	49.9	37.5-62.5
PCB-135	1.24	1.05-1.43	y	49.2	37.5-62.5	PCB-177	1.02	0.89-1.21	y	48.0	37.5-62.5
PCB-144	1.26	1.05-1.43	y	50.7	37.5-62.5	PCB-171	1.06	0.89-1.21	y	47.9	37.5-62.5
PCB-147	1.25	1.05-1.43	y	53.4	37.5-62.5	PCB-173	1.05	0.89-1.21	y	48.7	37.5-62.5
PCB-139/149	1.25	1.05-1.43	y	102.6	75.0-125	PCB-172	1.05	0.89-1.21	y	49.0	37.5-62.5

Analyst: DMS

Date: 10/28/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST141024E2-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 141024E2 S#1 Analysis Date: 25-OCT-14 Time: 02:10:53

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-192	1.06	0.89-1.21	y	49.6	37.5-62.5
PCB-180	1.06	0.89-1.21	y	48.3	37.5-62.5
PCB-193	1.04	0.89-1.21	y	47.5	37.5-62.5
PCB-191	1.04	0.89-1.21	y	48.1	37.5-62.5
PCB-170	1.02	0.89-1.21	y	48.0	37.5-62.5
PCB-190	1.04	0.89-1.21	y	47.8	37.5-62.5
PCB-189	1.05	0.89-1.21	y	47.4	37.5-62.5
PCB-202	0.91	0.76-1.02	y	47.4	37.5-62.5
PCB-201	0.89	0.76-1.02	y	47.9	37.5-62.5
PCB-204	0.91	0.76-1.02	y	47.0	37.5-62.5
PCB-197	0.91	0.76-1.02	y	47.2	37.5-62.5
PCB-200	0.90	0.76-1.02	y	47.4	37.5-62.5
PCB-198	0.90	0.76-1.02	y	46.2	37.5-62.5
PCB-199	0.91	0.76-1.02	y	48.8	37.5-62.5
PCB-196/203	0.91	0.76-1.02	y	96.4	75.0-125
PCB-195	0.91	0.76-1.02	y	52.5	37.5-62.5
PCB-194	0.90	0.76-1.02	y	47.8	37.5-62.5
PCB-205	0.90	0.76-1.02	y	46.4	37.5-62.5
PCB-208	1.34	1.14-1.54	y	49.5	37.5-62.5
PCB-207	1.34	1.14-1.54	y	49.3	37.5-62.5
PCB-206	1.32	1.14-1.54	y	49.0	37.5-62.5
PCB-209	1.16	0.99-1.33	y	48.9	37.5-62.5

Analyst: DmS

Date: 10/28/14

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST141024E2-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 141024E2 S#1 Analysis Date: 25-OCT-14 Time: 02:10:53

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-1	3.21	2.66-3.60	y	141.7	50.0-145
13C-PCB-3	3.18	2.66-3.60	y	139.2	50.0-145
13C-PCB-4	1.58	1.33-1.79	y	97.8	50.0-145
13C-PCB-9	1.59	1.33-1.79	y	98.8	50.0-145
13C-PCB-11	1.55	1.33-1.79	y	99.5	50.0-145
13C-PCB-19	1.09	0.88-1.20	y	123.4	50.0-145
13C-PCB-32	1.10	0.88-1.20	y	124.6	50.0-145
13C-PCB-28	1.05	0.88-1.20	y	110.9	50.0-145
13C-PCB-37	1.07	0.88-1.20	y	104.4	50.0-145
13C-PCB-54	0.80	0.65-0.89	y	88.7	50.0-145
13C-PCB-52	0.78	0.65-0.89	y	92.5	50.0-145
13C-PCB-47	0.77	0.65-0.89	y	95.5	50.0-145
13C-PCB-70	0.79	0.65-0.89	y	98.0	50.0-145
13C-PCB-80	0.78	0.65-0.89	y	99.9	50.0-145
13C-PCB-81	0.77	0.65-0.89	y	100.2	50.0-145
13C-PCB-77	0.80	0.65-0.89	y	97.2	50.0-145
13C-PCB-104	1.61	1.32-1.78	y	91.3	50.0-145
13C-PCB-95	1.61	1.32-1.78	y	94.6	50.0-145
13C-PCB-101	1.60	1.32-1.78	y	96.6	50.0-145
13C-PCB-97	1.61	1.32-1.78	y	98.4	50.0-145
13C-PCB-123	1.61	1.32-1.78	y	103.1	50.0-145
13C-PCB-118	1.63	1.32-1.78	y	100.7	50.0-145
13C-PCB-114	1.61	1.32-1.78	y	79.0	50.0-145
13C-PCB-105	1.58	1.32-1.78	y	79.5	50.0-145
13C-PCB-127	1.57	1.32-1.78	y	78.3	50.0-145
13C-PCB-126	1.55	1.32-1.78	y	79.8	50.0-145
13C-PCB-155	1.27	1.05-1.43	y	104.9	50.0-145
13C-PCB-153	1.29	1.05-1.43	y	94.1	50.0-145
13C-PCB-141	1.28	1.05-1.43	y	91.8	50.0-145
13C-PCB-138	1.28	1.05-1.43	y	94.3	50.0-145
13C-PCB-159	1.29	1.05-1.43	y	96.3	50.0-145
13C-PCB-167	1.27	1.05-1.43	y	96.5	50.0-145
13C-PCB-156	1.28	1.05-1.43	y	97.7	50.0-145
13C-PCB-157	1.28	1.05-1.43	y	98.5	50.0-145

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-169	1.27	1.05-1.43	y	98.3	50 - 145
13C-PCB-188	0.46	0.38-0.52	y	105.8	50 - 145
13C-PCB-180	0.46	0.38-0.52	y	111.1	50 - 145
13C-PCB-170	0.46	0.38-0.52	y	111.0	50 - 145
13C-PCB-189	0.46	0.38-0.52	y	111.0	50 - 145
13C-PCB-202	0.91	0.76-1.02	y	122.4	50 - 145
13C-PCB-194	0.92	0.76-1.02	y	101.1	50 - 145
13C-PCB-208	0.78	0.65-0.89	y	100.8	50 - 145
13C-PCB-206	0.78	0.65-0.89	y	94.1	50 - 145
13C-PCB-209	1.19	0.99-1.33	y	101.3	50 - 145

CRS vs. RS

13C-PCB-79	0.77	0.65-0.89	y	98.5	75 - 125
13C-PCB-178	0.46	0.38-0.52	y	106.5	75 - 125

Analyst: DMS

Date: 10/28/14

Client ID: PCB CS3 14F1302 Filename: 141024E2 S:1 Acq:25-OCT-14 02:10:53 ConCal: ST141024E2-1

Lab ID: ST141024E2-1 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-1	1.27e+08	2.91	y	1.19	16:26	1.002	0.996	1.006	37.5560
	PCB-2	1.31e+08	2.94	y	1.18	18:42	0.989	0.984	0.994	38.0598
	PCB-3	1.57e+08	2.92	y	1.43	18:56	1.001	0.996	1.006	38.1125
	PCB-4/10	4.02e+08	1.61	y	1.57	20:15	1.002	0.997	1.007	195.541
	PCB-7/9	4.74e+08	1.63	y	1.21	21:59	0.871	0.866	0.874	193.676
	PCB-6	2.47e+08	1.64	y	1.30	22:36	0.896	0.890	0.899	93.5801
	PCB-5/8	4.54e+08	1.63	y	1.15	23:01	0.912	0.907	0.917	195.650
	PCB-14	2.33e+08	1.62	y	1.11	24:04	0.954	0.949	0.959	98.5813
	PCB-11	2.25e+08	1.63	y	1.09	25:15	1.001	0.995	1.005	97.0310
	PCB-12/13	4.90e+08	1.63	y	1.19	25:38	1.016	1.011	1.021	192.732
	PCB-15	2.67e+08	1.65	y	1.28	25:57	1.029	1.023	1.033	97.6890
	PCB-19	7.26e+07	1.05	y	1.04	24:16	1.001	0.996	1.006	46.4946
	PCB-30	1.21e+08	1.05	y	1.71	25:08	1.036	1.032	1.042	47.2276
	PCB-18	8.40e+07	1.05	y	0.78	25:52	0.954	0.949	0.959	47.4498
	PCB-17	9.80e+07	1.05	y	0.92	26:02	0.961	0.956	0.966	46.8943
	PCB-24/27	2.54e+08	1.06	y	1.19	26:36	0.982	0.977	0.987	94.3006
-	PCB-16/32	1.97e+08	1.04	y	0.94	27:07	1.000	0.995	1.005	92.3643
-	PCB-34	1.03e+08	1.04	y	1.14	27:52	0.960	0.955	0.965	46.8330
	PCB-23	1.29e+08	1.06	y	1.28	27:58	0.964	0.959	0.969	52.3140
	PCB-29	1.06e+08	1.05	y	1.08	28:14	0.973	0.967	0.977	50.9693
	PCB-26	1.19e+08	1.05	y	1.21	28:25	0.979	0.974	0.984	51.1001
	PCB-25	1.21e+08	1.04	y	1.26	28:35	0.985	0.979	0.989	49.6884
	PCB-31	1.13e+08	1.03	y	1.28	28:56	0.997	0.992	1.002	45.6092
	PCB-28	1.68e+08	1.04	y	1.71	29:03	1.001	0.995	1.005	50.6097
	PCB-20/21/33	3.24e+08	1.06	y	1.08	29:39	1.022	1.017	1.027	154.804
	PCB-22	1.13e+08	1.05	y	1.21	30:06	1.037	1.032	1.042	48.2518
	PCB-36	9.85e+07	1.05	y	1.14	30:41	0.933	0.928	0.938	52.6085
	PCB-39	9.70e+07	1.06	y	1.12	31:10	0.948	0.943	0.953	53.0287
	PCB-38	1.04e+08	1.05	y	1.20	31:56	0.971	0.966	0.976	52.8141
	PCB-35	1.17e+08	1.05	y	1.23	32:27	0.987	0.982	0.992	57.9125
	PCB-37	1.04e+08	1.08	y	1.23	32:53	1.000	0.995	1.005	51.8061
	PCB-54	9.27e+07	0.75	y	1.10	27:58	1.001	0.996	1.006	45.5906
	PCB-50	7.43e+07	0.74	y	0.88	29:06	1.041	1.037	1.047	45.7152
	PCB-53	7.49e+07	0.75	y	1.06	29:44	0.947	0.942	0.952	46.0396
	PCB-51	6.75e+07	0.74	y	0.99	30:05	0.958	0.952	0.962	44.5653
	PCB-45	6.11e+07	0.74	y	0.86	30:31	0.971	0.966	0.976	46.2643
	PCB-46	5.90e+07	0.73	y	0.85	30:60	0.987	0.981	0.991	45.6174

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
PCB-52/69	1.88e+08	0.73	y	1.28	31:27	1.001	0.996	1.006	96.0310
PCB-73	9.02e+07	0.75	y	1.35	31:34	1.005	1.000	1.010	43.5716
PCB-43/49	1.40e+08	0.74	y	0.99	31:44	1.010	1.005	1.015	92.1284
PCB-47	7.54e+07	0.73	y	1.06	31:56	1.001	0.996	1.006	42.8971
PCB-48/75	1.92e+08	0.74	y	1.23	32:03	1.004	0.999	1.009	94.0968
PCB-65	9.40e+07	0.73	y	1.22	32:19	1.013	1.008	1.018	46.2025
PCB-62	9.55e+07	0.75	y	1.22	32:26	1.016	1.011	1.021	47.0642
PCB-44	6.52e+07	0.73	y	0.86	32:44	1.026	1.021	1.031	45.6073
PCB-42/59	1.69e+08	0.74	y	1.14	32:58	1.033	1.028	1.038	89.2991
PCB-41/64/71/72	3.61e+08	0.74	y	1.21	33:32	1.051	1.046	1.056	180.018
PCB-68	1.04e+08	0.73	y	1.35	33:47	1.058	1.054	1.064	46.5657
PCB-40	5.49e+07	0.73	y	0.70	34:01	1.066	1.061	1.071	47.1008
PCB-57	9.58e+07	0.73	y	0.98	34:22	0.970	0.965	0.975	46.6720
PCB-67	1.02e+08	0.73	y	1.11	34:40	0.979	0.974	0.984	44.0257
PCB-58	9.21e+07	0.74	y	0.93	34:47	0.982	0.977	0.987	47.4042
PCB-63	9.10e+07	0.75	y	0.95	34:56	0.987	0.982	0.992	45.5721
PCB-74	1.17e+08	0.74	y	1.24	35:13	0.995	0.990	1.000	44.7942
PCB-61/70	1.89e+08	0.74	y	0.95	35:24	1.000	0.995	1.005	94.4738
PCB-76/66	2.01e+08	0.74	y	1.04	35:37	1.006	1.001	1.011	91.8108
PCB-80	1.24e+08	0.75	y	1.19	35:50	1.001	0.996	1.006	46.9276
PCB-55	1.06e+08	0.74	y	1.04	36:11	1.010	1.005	1.015	45.8525
PCB-56/60	2.03e+08	0.73	y	1.01	36:40	1.024	1.019	1.029	91.1220
PCB-79	1.08e+08	0.75	y	1.08	37:44	1.053	1.048	1.058	45.1118
PCB-78	1.11e+08	0.73	y	1.27	38:26	0.987	0.982	0.992	44.0655
PCB-81	1.17e+08	0.75	y	1.33	38:58	1.000	0.995	1.005	44.5309
PCB-77	9.93e+07	0.76	y	1.10	39:33	1.000	0.995	1.005	45.9516
PCB-104	9.33e+07	1.60	y	1.18	32:35	1.000	0.996	1.006	50.4236
PCB-96	8.77e+07	1.57	y	1.14	33:51	1.039	1.034	1.044	49.2925
PCB-103	7.43e+07	1.57	y	0.96	34:22	1.055	1.050	1.060	49.7298
PCB-100	7.41e+07	1.57	y	0.94	34:43	1.066	1.061	1.071	50.6101
PCB-94	6.00e+07	1.57	y	1.06	35:12	0.985	0.980	0.990	47.4388
PCB-95/98/102	2.24e+08	1.57	y	1.22	35:41	0.999	0.995	1.005	153.116
PCB-93	4.54e+07	1.61	y	0.84	35:49	1.003	0.997	1.007	45.0080
PCB-88/91	1.46e+08	1.56	y	1.12	36:06	1.011	1.005	1.015	109.374
PCB-121	8.79e+07	1.61	y	1.62	36:12	1.013	1.009	1.019	45.4605
PCB-84/92	1.32e+08	1.56	y	1.05	37:02	0.990	0.985	0.995	97.2919
PCB-89	7.11e+07	1.55	y	1.13	37:13	0.995	0.991	1.001	48.6821

RL: MONO, TRI - DECA: ~~

RL: DI : ~~

Integrations by Analyst: DMS

Date: 10/28/14

Reviewed by Analyst: _____

Date: _____

Client ID: PCB CS3 14F1302 Filename: 141024E2 S:1 Acq:25-OCT-14 02:10:53 ConCal: ST141024E2-1

Lab ID: ST141024E2-1 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-90/101	1.39e+08	1.57	y	1.10	37:24	1.000	0.995	1.005	97.8589
	PCB-113	9.04e+07	1.54	y	1.41	37:38	1.007	1.002	1.012	49.5817
	PCB-99	8.51e+07	1.57	y	1.34	37:44	1.009	1.004	1.014	49.3203
	PCB-119	9.02e+07	1.57	y	1.53	38:11	0.987	0.982	0.992	49.7321
	PCB-108/112	1.46e+08	1.56	y	1.28	38:22	0.991	0.986	0.996	96.3713
	PCB-83	8.54e+07	1.62	y	1.52	38:31	0.995	0.990	1.000	47.5464
	PCB-97	6.77e+07	1.55	y	1.18	38:43	1.000	0.995	1.005	48.4112
	PCB-86	5.34e+07	1.55	y	0.84	38:51	1.004	0.999	1.009	53.5570
	B-87/117/125	2.71e+08	1.57	y	1.55	38:59	1.007	1.002	1.012	148.035
	PCB-111/115	1.83e+08	1.57	y	1.63	39:08	1.011	1.006	1.016	94.6986
	PCB-85/116	1.58e+08	1.56	y	1.30	39:16	1.015	1.010	1.020	102.628
	PCB-120	9.99e+07	1.60	y	1.68	39:30	1.021	1.016	1.026	50.3553
	PCB-110	8.96e+07	1.60	y	1.56	39:40	1.025	1.020	1.030	48.6725
	PCB-82	5.86e+07	1.55	y	0.76	40:18	0.977	0.971	0.981	49.0106
	PCB-124	1.15e+08	1.57	y	1.47	40:57	0.993	0.988	0.998	49.5273
	PCB-107/109	1.97e+08	1.56	y	1.32	41:06	0.996	0.991	1.001	94.5424
	PCB-123	9.02e+07	1.55	y	1.17	41:17	1.001	0.996	1.006	49.0395
-	PCB-106/118	1.89e+08	1.58	y	1.17	41:29	1.001	0.996	1.006	97.5678
-	PCB-114	9.71e+07	1.61	y	1.30	42:08	1.001	0.995	1.005	50.9798
	PCB-122	8.66e+07	1.63	y	1.12	42:16	1.004	0.999	1.009	52.5750
	PCB-105	9.76e+07	1.60	y	1.30	43:00	1.001	0.995	1.005	50.7163
	PCB-127	1.06e+08	1.64	y	1.33	43:18	1.000	0.996	1.006	50.5820
	PCB-126	8.65e+07	1.63	y	1.18	45:14	1.000	0.995	1.005	51.3578
	PCB-155	8.09e+07	1.25	y	1.11	36:56	1.000	0.966	1.006	48.3200
	PCB-150	7.35e+07	1.25	y	1.00	38:14	1.035	1.030	1.040	48.9806
	PCB-152	8.12e+07	1.25	y	1.12	38:42	1.048	1.043	1.053	48.3898
	PCB-145	8.73e+07	1.25	y	1.20	39:09	1.060	1.055	1.065	48.3558
	PCB-136	9.31e+07	1.27	y	1.18	39:29	1.069	1.064	1.074	52.5663
	PCB-148	4.93e+07	1.24	y	0.74	39:33	1.071	1.066	1.076	44.0880
	PCB-154	6.58e+07	1.25	y	0.86	40:03	1.084	1.080	1.090	51.0375
	PCB-151	5.63e+07	1.25	y	0.75	40:41	1.102	1.097	1.107	50.1347
	PCB-135	5.86e+07	1.24	y	0.79	40:55	1.108	1.103	1.113	49.2062
	PCB-144	5.81e+07	1.26	y	0.76	41:01	1.111	1.105	1.117	50.7394
	PCB-147	6.58e+07	1.25	y	0.82	41:09	1.114	1.109	1.121	53.4040
	PCB-139/149	1.18e+08	1.25	y	0.76	41:25	1.121	1.116	1.128	102.643
-	PCB-140	5.68e+07	1.24	y	0.72	41:36	1.126	1.121	1.133	52.3486
-	PCB-134/143	1.20e+08	1.23	y	0.92	42:03	0.975	0.970	0.980	89.0371

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-133/142	1.07e+08	1.23	y	0.82	42:21	0.982	0.977	0.987	88.9252
	PCB-131	5.98e+07	1.23	y	0.91	42:31	0.986	0.981	0.991	44.6629
	PCB-146/165	1.63e+08	1.23	y	1.25	42:43	0.991	0.986	0.996	88.5644
	PCB-132/161	1.42e+08	1.22	y	1.10	42:59	0.997	0.992	1.002	87.3086
	PCB-153	8.49e+07	1.26	y	1.25	43:08	1.000	0.995	1.005	46.1223
	PCB-168	9.65e+07	1.22	y	1.45	43:21	1.005	1.001	1.011	45.1602
	PCB-141	6.58e+07	1.23	y	1.09	43:53	1.000	0.995	1.005	45.0183
	PCB-137	6.54e+07	1.21	y	1.06	44:16	1.009	1.004	1.014	45.7400
	PCB-130	6.01e+07	1.23	y	0.96	44:22	1.011	1.006	1.016	46.2187
	PCB-138/163/164	2.45e+08	1.23	y	1.29	44:45	1.001	0.996	1.006	134.040
	PCB-158/160	1.75e+08	1.21	y	1.34	45:00	1.006	1.001	1.011	92.1325
	PCB-129	5.49e+07	1.21	y	0.85	45:14	1.012	1.007	1.017	45.4542
	PCB-166	8.68e+07	1.21	y	1.19	45:42	0.993	0.988	0.998	44.6079
	PCB-159	8.40e+07	1.24	y	1.11	46:00	1.000	0.996	1.006	46.0022
	PCB-128/162	1.54e+08	1.21	y	1.05	46:19	1.007	1.002	1.012	89.3895
	PCB-167	9.78e+07	1.21	y	1.20	46:42	1.000	0.995	1.005	45.7494
	PCB-156	9.05e+07	1.22	y	1.14	48:01	1.000	0.996	1.006	46.0912
	PCB-157	9.39e+07	1.24	y	1.16	48:17	1.000	0.995	1.005	44.1887
	PCB-169	8.34e+07	1.21	y	1.12	50:18	1.000	0.995	1.005	43.2113
	PCB-188	9.93e+07	1.05	y	1.58	42:47	1.001	0.996	1.006	47.3975
	PCB-184	1.03e+08	1.05	y	1.63	43:14	1.011	1.006	1.016	47.5503
	PCB-179	8.21e+07	1.05	y	1.30	44:01	1.030	1.024	1.034	47.4881
	PCB-176	9.24e+07	1.05	y	1.48	44:29	1.041	1.035	1.045	47.2148
	PCB-186	9.31e+07	1.06	y	1.45	45:06	1.055	1.050	1.060	48.3298
	PCB-178	6.63e+07	1.04	y	1.03	45:35	1.066	1.061	1.071	48.3382
	PCB-175	6.63e+07	1.05	y	1.01	45:56	1.074	1.069	1.079	49.3515
	PCB-182/187	1.61e+08	1.04	y	1.25	46:06	1.078	1.073	1.083	97.2997
	PCB-183	7.70e+07	1.05	y	1.21	46:25	1.086	1.081	1.091	48.0724
	PCB-185	8.65e+07	1.04	y	1.80	47:05	0.956	0.951	0.961	46.2610
	PCB-174	6.63e+07	1.05	y	1.38	47:27	0.963	0.958	0.968	46.3493
	PCB-181	7.15e+07	1.07	y	1.38	47:34	0.966	0.960	0.970	49.9030
	PCB-177	6.26e+07	1.02	y	1.26	47:44	0.969	0.963	0.973	48.0403
	PCB-171	7.86e+07	1.06	y	1.58	48:02	0.975	0.970	0.980	47.8529
	PCB-173	5.61e+07	1.05	y	1.11	48:28	0.984	0.978	0.988	48.6891
	PCB-172	8.31e+07	1.05	y	1.63	48:54	0.993	0.987	0.997	48.9793
	PCB-192	8.96e+07	1.06	y	1.74	49:05	0.996	0.991	1.001	49.5981
	PCB-180	6.74e+07	1.06	y	1.34	49:17	1.000	0.995	1.005	48.2699

RL: MONO, TRI - DECA: ———

Integrations by Analyst: DMS

Date: 10/28/14

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-193	8.46e+07	1.04	y	1.72	49:28	1.004	0.999	1.009	47.4948
	PCB-191	8.45e+07	1.04	y	1.69	49:42	1.009	1.004	1.014	48.0619
	PCB-170	6.31e+07	1.02	y	1.60	50:40	1.000	0.995	1.005	48.0167
	PCB-190	8.69e+07	1.04	y	2.21	50:49	1.003	0.998	1.008	47.8263
	PCB-189	7.98e+07	1.05	y	1.55	52:06	1.000	0.995	1.005	47.4092
	PCB-202	7.20e+07	0.91	y	1.08	48:14	1.001	0.995	1.005	47.4395
	PCB-201	7.73e+07	0.89	y	1.15	48:43	1.011	1.005	1.015	47.9453
	PCB-204	7.50e+07	0.91	y	1.14	48:52	1.014	1.008	1.018	46.9944
	PCB-197	7.10e+07	0.91	y	1.07	49:10	1.020	1.015	1.025	47.1618
	PCB-200	7.06e+07	0.90	y	1.06	49:58	1.037	1.032	1.044	47.3552
	PCB-198	4.89e+07	0.90	y	0.76	51:12	1.062	1.059	1.069	46.1882
	PCB-199	5.45e+07	0.91	y	0.80	51:19	1.065	1.061	1.071	48.7737
-	PCB-196/203	1.08e+08	0.91	y	0.80	51:34	1.070	1.066	1.076	96.3549
-	PCB-195	5.73e+07	0.91	y	1.23	52:43	0.983	0.979	0.989	52.4578
	PCB-194	5.16e+07	0.90	y	1.21	53:37	1.000	0.995	1.005	47.8322
	PCB-205	6.37e+07	0.90	y	1.54	53:55	1.006	1.001	1.011	46.3809
	PCB-208	5.55e+07	1.34	y	0.93	52:51	1.000	0.995	1.005	49.5407
	PCB-207	6.42e+07	1.34	y	1.08	53:11	1.006	1.001	1.011	49.2928
	PCB-206	3.38e+07	1.32	y	1.02	55:21	1.000	0.995	1.005	48.9594
	PCB-209	3.91e+07	1.16	y	1.17	56:37	1.000	0.995	1.005	48.9132

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	4.08e+08	2.91	y	16:26	1.27	110.465	
Total Di-PCB	2.80e+09	1.61	y	20:15	1.21	1166.97	
Total Tri-PCB	8.26e+08	1.05	y	24:16	1.10	374.731	
Total Tri-PCB	1.85e+09	1.04	y	27:52	1.21	830.887	Sum:1205.62
Total Tetra-PCB	3.84e+09	0.75	y	27:58	1.09	1936.25	
Total Penta-PCB	3.31e+09	1.60	y	32:35	1.18	2027.39	
Total Penta-PCB	5.08e+08	1.61	y	42:08	1.25	274.752	Sum:2302.14
Total Hexa-PCB	9.45e+08	1.25	y	36:56	0.90	700.214	
Total Hexa-PCB	2.16e+09	1.23	y	42:03	1.11	1275.34	Sum:1975.55
Total Hepta-PCB	1.93e+09	1.05	y	42:47	1.42	1169.67	
Total Octa-PCB	5.77e+08	0.91	y	48:14	0.96	428.213	
Total Octa-PCB	1.74e+08	0.91	y	52:43	1.33	148.027	Sum:576.240
Total Nona-PCB	1.54e+08	1.34	y	52:51	1.01	147.793	
Total Deca-PCB	3.91e+07	1.16	y	56:37	1.17	48.9132	

Total PCB Conc:10553.0318230

RL: MONO, TRI - DECA: ———

Integrations by Analyst: DMJ

Date: 10/29/14

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	2.85e+08	3.22	y	0.87	16:25	0.633	0.629	0.635	143	143
13C-PCB-3	2.95e+08	3.26	y	0.91	18:55	0.729	0.725	0.733	141	141
13C-PCB-4	1.31e+08	1.58	y	0.59	20:13	0.779	0.775	0.783	97.8	97.8
13C-PCB-9	2.02e+08	1.59	y	0.90	21:56	0.846	0.842	0.850	98.8	98.8
13C-PCB-11	2.13e+08	1.55	y	0.94	25:14	0.973	0.968	0.978	99.5	99.5
13C-PCB-19	1.50e+08	1.09	y	0.53	24:15	0.935	0.930	0.940	123	123
13C-PCB-28	1.93e+08	1.05	y	0.93	29:01	1.004	0.999	1.009	111	111
13C-PCB-32	2.27e+08	1.10	y	0.80	27:06	1.045	1.040	1.050	125	125
13C-PCB-37	1.64e+08	1.07	y	0.84	32:53	1.137	1.131	1.143	104	104
13C-PCB-47	1.66e+08	0.77	y	0.81	31:55	0.870	0.866	0.874	95.5	95.5
13C-PCB-52	1.53e+08	0.78	y	0.77	31:25	0.857	0.853	0.861	92.5	92.5
13C-PCB-54	1.84e+08	0.80	y	0.97	27:57	0.762	0.758	0.766	88.7	88.7
13C-PCB-70	2.10e+08	0.79	y	1.00	35:24	0.966	0.961	0.971	98.0	98.0
13C-PCB-77	1.96e+08	0.80	y	0.94	39:32	1.078	1.073	1.083	97.2	97.2
13C-PCB-80	2.21e+08	0.78	y	1.03	35:49	0.977	0.972	0.982	99.9	99.9
13C-PCB-81	1.98e+08	0.77	y	0.92	38:57	1.062	1.057	1.067	100	100
13C-PCB-95	1.20e+08	1.61	y	0.74	35:43	0.913	0.908	0.918	94.6	94.6
13C-PCB-97	1.18e+08	1.61	y	0.70	38:42	0.989	0.984	0.994	98.4	98.4
13C-PCB-101	1.29e+08	1.60	y	0.78	37:23	0.956	0.951	0.961	96.6	96.6
13C-PCB-104	1.56e+08	1.61	y	1.00	32:35	0.833	0.828	0.836	91.3	91.3
13C-PCB-105	1.48e+08	1.58	y	1.37	42:59	0.928	0.924	0.934	79.5	79.5
13C-PCB-114	1.47e+08	1.61	y	1.36	42:07	0.910	0.905	0.915	79.0	79.0
13C-PCB-118	1.65e+08	1.63	y	0.96	41:27	1.060	1.054	1.064	101	101
13C-PCB-123	1.58e+08	1.61	y	0.89	41:15	1.055	1.050	1.060	103	103
13C-PCB-126	1.43e+08	1.55	y	1.31	45:13	0.977	0.972	0.982	79.8	79.8
13C-PCB-127	1.58e+08	1.57	y	1.47	43:18	0.935	0.931	0.941	78.3	78.3
13C-PCB-138	1.42e+08	1.28	y	1.10	44:43	0.966	0.961	0.971	94.3	94.3
13C-PCB-141	1.35e+08	1.28	y	1.07	43:52	0.948	0.943	0.953	91.8	91.8
13C-PCB-153	1.47e+08	1.29	y	1.15	43:07	0.931	0.927	0.937	94.1	94.1
13C-PCB-155	1.50e+08	1.27	y	0.84	36:56	0.944	0.939	0.949	105	105
13C-PCB-156	1.73e+08	1.28	y	1.30	48:00	1.037	1.032	1.042	97.7	97.7
13C-PCB-157	1.83e+08	1.28	y	1.36	48:16	1.043	1.038	1.048	98.5	98.5
13C-PCB-159	1.64e+08	1.29	y	1.25	45:60	0.994	0.989	0.999	96.3	96.3
13C-PCB-167	1.78e+08	1.27	y	1.35	46:41	1.008	1.004	1.014	96.5	96.5
13C-PCB-169	1.73e+08	1.27	y	1.29	50:18	1.087	1.083	1.093	98.3	98.3
13C-PCB-170	8.22e+07	0.46	y	0.54	50:39	1.094	1.089	1.101	111	111
13C-PCB-180	1.04e+08	0.46	y	0.68	49:16	1.064	1.060	1.070	111	111
13C-PCB-188	1.32e+08	0.46	y	0.92	42:45	0.923	0.919	0.929	106	106
13C-PCB-189	1.09e+08	0.46	y	0.72	52:05	1.125	1.120	1.132	111	111
13C-PCB-194	8.91e+07	0.92	y	0.80	53:36	0.994	0.990	1.000	101	101
13C-PCB-202	1.40e+08	0.91	y	0.84	48:12	1.041	1.036	1.046	122	122
13C-PCB-206	6.75e+07	0.78	y	0.65	55:20	1.027	1.021	1.031	94.1	94.1
13C-PCB-208	1.20e+08	0.78	y	1.08	52:50	0.980	0.976	0.986	101	101
13C-PCB-209	6.83e+07	1.19	y	0.61	56:36	1.050	1.045	1.055	101	101

CRS vs. RS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	2.14e+08	0.77	y	1.02	37:42	1.028	1.023	1.034	98.5	98.5
13C-PCB-178	8.92e+07	0.46	y	0.61	45:33	0.984	0.979	0.990	106	106

PS vs. IS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	2.14e+08	0.77	y	1.10	37:42	0.968	0.964	0.974	98.2	98.2
13C-PCB-178	8.92e+07	0.46	y	0.90	45:33	0.925	0.920	0.930	95.7	95.7

RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	2.28e+08	1.59	y	1.00	25:56	100
13C-PCB-31	1.87e+08	1.04	y	1.00	28:55	100
13C-PCB-60	2.14e+08	0.79	y	1.00	36:40	100
13C-PCB-111	1.71e+08	1.61	y	1.00	39:07	100
13C-PCB-128	1.37e+08	1.26	y	1.00	46:18	100
13C-PCB-205	1.10e+08	0.92	y	1.00	53:54	100

Analyst: DMS

Date: 10/28/14

Vista Analytical Laboratory - Injection Log Run file: 141024E2 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
141024E2	1	ST141024E2-1	DMS	25-OCT-14	02:10:53	ST141024E2-1	NA
141024E2	2	B4J0119-BS1	DMS	25-OCT-14	03:14:20	ST141024E2-1	NA
141024E2	3	B4J0122-BS1	DMS	25-OCT-14	04:17:54	ST141024E2-1	NA
141024E2	4	SOLVENT BLANK	DMS	25-OCT-14	05:21:22	ST141024E2-1	NA
141024E2	5	B4J0119-BLK1	DMS	25-OCT-14	06:24:56	ST141024E2-1	NA
141024E2	6	B4J0122-BLK1	DMS	25-OCT-14	07:28:25	ST141024E2-1	NA
141024E2	7	1400762-03@20X	DMS	25-OCT-14	08:31:59	ST141024E2-1	NA
141024E2	8	1400762-04@20X	DMS	25-OCT-14	09:35:32	ST141024E2-1	NA
141024E2	9	1400762-05@20X	DMS	25-OCT-14	10:39:00	ST141024E2-1	NA
141024E2	10	1400763-01@20X	DMS	25-OCT-14	11:42:27	ST141024E2-1	NA
141024E2	11	1400763-02@20X	DMS	25-OCT-14	12:45:54	ST141024E2-1	NA
141024E2	12	SOLVENT BLANK	DMS	25-OCT-14	13:49:23	ST141024E2-1	NA
141024E2	13	SOLVENT BLANK	DMS	25-OCT-14	14:52:52	ST141024E2-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST

Vista Analytical Laboratory

Beg. Calibration ID: ST141024E2-1 End Calibration ID: NA

	Beg.	End
Ion abundance within QC limits?	✓	NA
Concentration within range?	✓	
First and last eluters present?	✓	
Retention Times within criteria?	DM 10/28/14	
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	✓	
Forms signed and dated?	✓	
Correct ICAL referenced?	✓	
Run Log:		
-Data file matches Conc Cal ID?	✓	
-Correct instrument listed?	✓	✓
-Samples within 12-hour clock?	y	n

	Beg.	End
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	✓	✓
TCDD/TCDF valleys < 25%?	NA	NA
Peaks integrated correctly?	✓	
Manual integrations included?	✓	
8280 CS1 Ending Standard		
-Ratios within limits		
-S/N > 2.5:1		
-CS1 within 12-hour clock		✓

Comments:

Reviewed by: MD 10/29/14
Initials & Date

* *Ending standard criteria applicable to 8290 only.*

Vista Analytical Laboratory
El Dorado Hills, CA 95762

Calib.Stds.Review 12/2009 mh

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST141027E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 141027E1 S#1 Analysis Date: 27-OCT-14 Time: 10:33:19

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	2.97	2.66-3.60	y	45.5	37.5-62.5
PCB-2	2.99	2.66-3.60	y	44.5	37.5-62.5
PCB-3	2.97	2.66-3.60	y	44.2	37.5-62.5
PCB-4/10	1.58	1.33-1.79	y	181.4	150-250
PCB-7/9	1.60	1.33-1.79	y	185.6	150-250
PCB-6	1.60	1.33-1.79	y	88.4	75.0-125
PCB-5/8	1.60	1.33-1.79	y	190.1	150-250
PCB-14	1.62	1.33-1.79	y	93.6	75.0-125
PCB-11	1.61	1.33-1.79	y	92.7	75.0-125
PCB-12/13	1.60	1.33-1.79	y	184.9	150-250
PCB-15	1.61	1.33-1.79	y	91.9	75.0-125
PCB-19	1.03	0.88-1.20	y	45.4	37.5-62.5
PCB-30	1.04	0.88-1.20	y	48.5	37.5-62.5
PCB-18	1.04	0.88-1.20	y	45.8	37.5-62.5
PCB-17	1.04	0.88-1.20	y	45.1	37.5-62.5
PCB-24/27	1.04	0.88-1.20	y	89.2	75.0-125
PCB-16/32	1.03	0.88-1.20	y	90.6	75.0-125
PCB-34	1.06	0.88-1.20	y	58.5	37.5-62.5
PCB-23	1.06	0.88-1.20	y	53.8	37.5-62.5
PCB-29	1.05	0.88-1.20	y	56.3	37.5-62.5
PCB-26	1.05	0.88-1.20	y	53.0	37.5-62.5
PCB-25	1.06	0.88-1.20	y	58.7	37.5-62.5
PCB-31	1.04	0.88-1.20	y	54.2	37.5-62.5
PCB-28	1.05	0.88-1.20	y	49.7	37.5-62.5
PCB-20/21/33	1.05	0.88-1.20	y	171.7	112.5-225
PCB-22	1.03	0.88-1.20	y	52.4	37.5-62.5
PCB-36	1.03	0.88-1.20	y	44.9	37.5-62.5
PCB-39	1.03	0.88-1.20	y	45.7	37.5-62.5
PCB-38	1.06	0.88-1.20	y	46.1	37.5-62.5
PCB-35	1.06	0.88-1.20	y	56.7	37.5-62.5
PCB-37	1.07	0.88-1.20	y	52.6	37.5-62.5
PCB-54	0.75	0.65-0.89	y	47.8	37.5-62.5
PCB-50	0.76	0.65-0.89	y	47.7	37.5-62.5
PCB-53	0.75	0.65-0.89	y	48.9	37.5-62.5
PCB-51	0.75	0.65-0.89	y	46.9	37.5-62.5
PCB-45	0.77	0.65-0.89	y	46.9	37.5-62.5
PCB-46	0.74	0.65-0.89	y	47.0	37.5-62.5
PCB-52/69	0.75	0.65-0.89	y	99.9	75.0-125
PCB-73	0.76	0.65-0.89	y	49.4	37.5-62.5
PCB-43/49	0.76	0.65-0.89	y	98.5	75.0-125
PCB-47	0.74	0.65-0.89	y	49.9	37.5-62.5
PCB-48/75	0.75	0.65-0.89	y	98.8	75.0-125
PCB-65	0.75	0.65-0.89	y	53.5	37.5-62.5
PCB-62	0.78	0.65-0.89	y	49.0	37.5-62.5
PCB-44	0.76	0.65-0.89	y	51.1	37.5-62.5
PCB-42/59	0.76	0.65-0.89	y	103.8	75.0-125
PCB-41/64/71/72	0.76	0.65-0.89	y	203.1	150-250
PCB-68	0.76	0.65-0.89	y	52.9	37.5-62.5
PCB-40	0.74	0.65-0.89	y	53.4	37.5-62.5
PCB-57	0.76	0.65-0.89	y	52.6	37.5-62.5
PCB-67	0.75	0.65-0.89	y	52.2	37.5-62.5
PCB-58	0.76	0.65-0.89	y	51.2	37.5-62.5
PCB-63	0.76	0.65-0.89	y	50.3	37.5-62.5
PCB-74	0.75	0.65-0.89	y	47.9	37.5-62.5
PCB-61/70	0.76	0.65-0.89	y	100.7	75.0-125
PCB-76/66	0.76	0.65-0.89	y	98.2	75.0-125
PCB-80	0.77	0.65-0.89	y	51.0	37.5-62.5
PCB-55	0.76	0.65-0.89	y	50.6	37.5-62.5
PCB-56/60	0.76	0.65-0.89	y	99.3	75.0-125
PCB-79	0.76	0.65-0.89	y	51.0	37.5-62.5
PCB-78	0.76	0.65-0.89	y	48.6	37.5-62.5
PCB-81	0.77	0.65-0.89	y	47.2	37.5-62.5
PCB-77	0.79	0.65-0.89	y	49.7	37.5-62.5
PCB-104	1.55	1.32-1.78	y	46.9	37.5-62.5
PCB-96	1.56	1.32-1.78	y	47.1	37.5-62.5
PCB-103	1.53	1.32-1.78	y	48.5	37.5-62.5
PCB-100	1.57	1.32-1.78	y	48.9	37.5-62.5
PCB-94	1.55	1.32-1.78	y	43.6	37.5-62.5
PCB-95/98/102	1.58	1.32-1.78	y	139.1	112.5-225
PCB-93	1.50	1.32-1.78	y	47.7	37.5-62.5
PCB-88/91	1.58	1.32-1.78	y	97.6	75.0-125
PCB-121	1.52	1.32-1.78	y	47.2	37.5-62.5

Analyst: DMS

Date: 10/27/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST141027E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 141027E1 S#1 Analysis Date: 27-OCT-14 Time: 10:33:19

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-84/92	1.58	1.32-1.78	y	90.7	75.0-125	PCB-140	1.25	1.05-1.43	y	51.9	37.5-62.5
PCB-89	1.56	1.32-1.78	y	45.2	37.5-62.5	PCB-134/143	1.23	1.05-1.43	y	97.3	75.0-125
PCB-90/101	1.54	1.32-1.78	y	93.1	75.0-125	PCB-133/142	1.22	1.05-1.43	y	94.5	75.0-125
PCB-113	1.54	1.32-1.78	y	44.8	37.5-62.5	PCB-131	1.21	1.05-1.43	y	47.7	37.5-62.5
PCB-99	1.60	1.32-1.78	y	49.5	37.5-62.5	PCB-146/165	1.23	1.05-1.43	y	95.3	75.0-125
PCB-119	1.55	1.32-1.78	y	46.2	37.5-62.5	PCB-132/161	1.21	1.05-1.43	y	91.7	75.0-125
PCB-108/112	1.56	1.32-1.78	y	91.3	75.0-125	PCB-153	1.21	1.05-1.43	y	44.7	37.5-62.5
PCB-83	1.57	1.32-1.78	y	45.9	37.5-62.5	PCB-168	1.21	1.05-1.43	y	45.6	37.5-62.5
PCB-97	1.57	1.32-1.78	y	45.5	37.5-62.5	PCB-141	1.21	1.05-1.43	y	45.7	37.5-62.5
PCB-86	1.55	1.32-1.78	y	44.5	37.5-62.5	PCB-137	1.20	1.05-1.43	y	46.7	37.5-62.5
PCB-87/117/125	1.56	1.32-1.78	y	137.2	112.5-225	PCB-130	1.26	1.05-1.43	y	50.8	37.5-62.5
PCB-111/115	1.56	1.32-1.78	y	92.3	75.0-125	PCB-138/163/164	1.21	1.05-1.43	y	136.5	112.5-225
PCB-85/116	1.57	1.32-1.78	y	92.6	75.0-125	PCB-158/160	1.21	1.05-1.43	y	95.7	75.0-125
PCB-120	1.57	1.32-1.78	y	46.2	37.5-62.5	PCB-129	1.21	1.05-1.43	y	47.2	37.5-62.5
PCB-110	1.56	1.32-1.78	y	45.8	37.5-62.5	PCB-166	1.21	1.05-1.43	y	44.3	37.5-62.5
PCB-82	1.55	1.32-1.78	y	46.1	37.5-62.5	PCB-159	1.21	1.05-1.43	y	46.8	37.5-62.5
PCB-124	1.55	1.32-1.78	y	44.9	37.5-62.5	PCB-128/162	1.22	1.05-1.43	y	88.5	75.0-125
PCB-107/109	1.56	1.32-1.78	y	91.8	75.0-125	PCB-167	1.22	1.05-1.43	y	46.4	37.5-62.5
PCB-123	1.59	1.32-1.78	y	45.8	37.5-62.5	PCB-156	1.23	1.05-1.43	y	47.4	37.5-62.5
PCB-106/118	1.58	1.32-1.78	y	91.6	75.0-125	PCB-157	1.24	1.05-1.43	y	46.3	37.5-62.5
PCB-114	1.59	1.32-1.78	y	45.1	37.5-62.5	PCB-169	1.23	1.05-1.43	y	44.7	37.5-62.5
PCB-122	1.63	1.32-1.78	y	45.1	37.5-62.5	PCB-188	1.05	0.89-1.21	y	46.2	37.5-62.5
PCB-105	1.60	1.32-1.78	y	44.5	37.5-62.5	PCB-184	1.06	0.89-1.21	y	46.3	37.5-62.5
PCB-127	1.63	1.32-1.78	y	44.6	37.5-62.5	PCB-179	1.05	0.89-1.21	y	45.2	37.5-62.5
PCB-126	1.63	1.32-1.78	y	44.9	37.5-62.5	PCB-176	1.05	0.89-1.21	y	46.1	37.5-62.5
PCB-155	1.28	1.05-1.43	y	47.2	37.5-62.5	PCB-186	1.03	0.89-1.21	y	46.4	37.5-62.5
PCB-150	1.27	1.05-1.43	y	48.8	37.5-62.5	PCB-178	1.02	0.89-1.21	y	45.2	37.5-62.5
PCB-152	1.25	1.05-1.43	y	47.9	37.5-62.5	PCB-175	1.03	0.89-1.21	y	47.0	37.5-62.5
PCB-145	1.27	1.05-1.43	y	47.8	37.5-62.5	PCB-182/187	1.04	0.89-1.21	y	92.4	75.0-125
PCB-136	1.26	1.05-1.43	y	51.5	37.5-62.5	PCB-183	1.03	0.89-1.21	y	45.8	37.5-62.5
PCB-148	1.26	1.05-1.43	y	44.0	37.5-62.5	PCB-185	1.03	0.89-1.21	y	45.6	37.5-62.5
PCB-154	1.25	1.05-1.43	y	51.3	37.5-62.5	PCB-174	1.02	0.89-1.21	y	44.8	37.5-62.5
PCB-151	1.26	1.05-1.43	y	49.9	37.5-62.5	PCB-181	1.03	0.89-1.21	y	50.1	37.5-62.5
PCB-135	1.26	1.05-1.43	y	51.8	37.5-62.5	PCB-177	1.03	0.89-1.21	y	47.2	37.5-62.5
PCB-144	1.26	1.05-1.43	y	49.4	37.5-62.5	PCB-171	1.06	0.89-1.21	y	46.8	37.5-62.5
PCB-147	1.26	1.05-1.43	y	51.3	37.5-62.5	PCB-173	1.05	0.89-1.21	y	47.2	37.5-62.5
PCB-139/149	1.26	1.05-1.43	y	101.6	75.0-125	PCB-172	1.04	0.89-1.21	y	47.2	37.5-62.5

Analyst DMS

Date: 10/27/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST141027E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 141027E1 S#1 Analysis Date: 27-OCT-14 Time: 10:33:19

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-192	1.04	0.89-1.21	y	48.3	37.5-62.5
PCB-180	1.04	0.89-1.21	y	46.7	37.5-62.5
PCB-193	1.05	0.89-1.21	y	45.7	37.5-62.5
PCB-191	1.05	0.89-1.21	y	46.5	37.5-62.5
PCB-170	1.02	0.89-1.21	y	45.2	37.5-62.5
PCB-190	1.04	0.89-1.21	y	46.5	37.5-62.5
PCB-189	1.03	0.89-1.21	y	45.6	37.5-62.5
PCB-202	0.90	0.76-1.02	y	46.2	37.5-62.5
PCB-201	0.89	0.76-1.02	y	46.7	37.5-62.5
PCB-204	0.91	0.76-1.02	y	46.2	37.5-62.5
PCB-197	0.90	0.76-1.02	y	45.7	37.5-62.5
PCB-200	0.90	0.76-1.02	y	46.9	37.5-62.5
PCB-198	0.89	0.76-1.02	y	46.6	37.5-62.5
PCB-199	0.89	0.76-1.02	y	48.9	37.5-62.5
PCB-196/203	0.89	0.76-1.02	y	96.8	75.0-125
PCB-195	0.90	0.76-1.02	y	53.8	37.5-62.5
PCB-194	0.90	0.76-1.02	y	47.3	37.5-62.5
PCB-205	0.91	0.76-1.02	y	47.7	37.5-62.5
PCB-208	1.31	1.14-1.54	y	47.7	37.5-62.5
PCB-207	1.31	1.14-1.54	y	48.1	37.5-62.5
PCB-206	1.27	1.14-1.54	y	46.7	37.5-62.5
PCB-209	1.17	0.99-1.33	y	48.2	37.5-62.5

Analyst: DMS

Date: 10/27/14

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST141027E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 141027E1 S#1 Analysis Date: 27-OCT-14 Time: 10:33:19

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-1	3.37	2.66-3.60	y	117.7	50.0-145
13C-PCB-3	3.39	2.66-3.60	y	123.7	50.0-145
13C-PCB-4	1.57	1.33-1.79	y	91.8	50.0-145
13C-PCB-9	1.58	1.33-1.79	y	95.2	50.0-145
13C-PCB-11	1.56	1.33-1.79	y	98.8	50.0-145
13C-PCB-19	1.09	0.88-1.20	y	109.8	50.0-145
13C-PCB-32	1.07	0.88-1.20	y	117.0	50.0-145
13C-PCB-28	1.02	0.88-1.20	y	93.2	50.0-145
13C-PCB-37	1.04	0.88-1.20	y	106.9	50.0-145
13C-PCB-54	0.79	0.65-0.89	y	86.7	50.0-145
13C-PCB-52	0.78	0.65-0.89	y	89.6	50.0-145
13C-PCB-47	0.77	0.65-0.89	y	91.4	50.0-145
13C-PCB-70	0.79	0.65-0.89	y	95.5	50.0-145
13C-PCB-80	0.79	0.65-0.89	y	97.8	50.0-145
13C-PCB-81	0.78	0.65-0.89	y	101.8	50.0-145
13C-PCB-77	0.79	0.65-0.89	y	100.3	50.0-145
13C-PCB-104	1.59	1.32-1.78	y	89.2	50.0-145
13C-PCB-95	1.60	1.32-1.78	y	92.0	50.0-145
13C-PCB-101	1.57	1.32-1.78	y	95.7	50.0-145
13C-PCB-97	1.61	1.32-1.78	y	98.4	50.0-145
13C-PCB-123	1.56	1.32-1.78	y	104.4	50.0-145
13C-PCB-118	1.60	1.32-1.78	y	102.7	50.0-145
13C-PCB-114	1.53	1.32-1.78	y	81.9	50.0-145
13C-PCB-105	1.51	1.32-1.78	y	73.0	50.0-145
13C-PCB-127	1.51	1.32-1.78	y	73.3	50.0-145
13C-PCB-126	1.51	1.32-1.78	y	77.7	50.0-145
13C-PCB-155	1.28	1.05-1.43	y	107.6	50.0-145
13C-PCB-153	1.29	1.05-1.43	y	96.5	50.0-145
13C-PCB-141	1.27	1.05-1.43	y	92.8	50.0-145
13C-PCB-138	1.27	1.05-1.43	y	95.9	50.0-145
13C-PCB-159	1.25	1.05-1.43	y	99.2	50.0-145
13C-PCB-167	1.26	1.05-1.43	y	100.4	50.0-145
13C-PCB-156	1.27	1.05-1.43	y	102.7	50.0-145
13C-PCB-157	1.28	1.05-1.43	y	102.5	50.0-145

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-169	1.26	1.05-1.43	y	103.9	50 - 145
13C-PCB-188	0.46	0.38-0.52	y	105.7	50 - 145
13C-PCB-180	0.47	0.38-0.52	y	110.4	50 - 145
13C-PCB-170	0.47	0.38-0.52	y	114.9	50 - 145
13C-PCB-189	0.46	0.38-0.52	y	115.6	50 - 145
13C-PCB-202	0.90	0.76-1.02	y	125.1	50 - 145
13C-PCB-194	0.90	0.76-1.02	y	100.5	50 - 145
13C-PCB-208	0.77	0.65-0.89	y	115.0	50 - 145
13C-PCB-206	0.79	0.65-0.89	y	111.2	50 - 145
13C-PCB-209	1.19	0.99-1.33	y	120.6	50 - 145

CRS vs. RS

13C-PCB-79	0.78	0.65-0.89	y	103.0	75 - 125
13C-PCB-178	0.45	0.38-0.52	y	104.6	75 - 125

Analyst: DMS

Date: 10/27/14

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-1	9.54e+07	2.97	y	1.19	16:26	1.001	0.996	1.006	45.5421
	PCB-2	1.02e+08	2.99	y	1.18	18:42	0.989	0.984	0.994	44.4769
	PCB-3	1.21e+08	2.97	y	1.43	18:56	1.001	0.996	1.006	44.1532
	PCB-4/10	2.62e+08	1.58	y	1.57	20:15	1.002	0.997	1.007	181.351
	PCB-7/9	3.28e+08	1.60	y	1.21	21:59	0.872	0.866	0.874	185.586
	PCB-6	1.68e+08	1.60	y	1.30	22:37	0.897	0.890	0.899	88.4367
	PCB-5/8	3.19e+08	1.60	y	1.15	23:01	0.912	0.907	0.917	190.144
	PCB-14	1.64e+08	1.62	y	1.11	24:04	0.954	0.949	0.959	93.5841
	PCB-11	1.60e+08	1.61	y	1.09	25:15	1.001	0.995	1.005	92.7243
	PCB-12/13	3.49e+08	1.60	y	1.19	25:38	1.016	1.011	1.021	184.909
	PCB-15	1.87e+08	1.61	y	1.28	25:56	1.028	1.023	1.033	91.9170
	PCB-19	4.73e+07	1.03	y	1.04	24:16	1.001	0.996	1.006	45.4129
	PCB-30	8.28e+07	1.04	y	1.71	25:08	1.036	1.032	1.042	48.5127
	PCB-18	5.70e+07	1.04	y	0.78	25:52	0.954	0.949	0.959	45.8006
	PCB-17	6.62e+07	1.04	y	0.92	26:02	0.961	0.956	0.966	45.0891
	PCB-24/27	1.69e+08	1.04	y	1.19	26:36	0.982	0.977	0.987	89.2282
-	PCB-16/32	1.36e+08	1.03	y	0.94	27:06	1.000	0.995	1.005	90.6249
-	PCB-34	7.55e+07	1.06	y	1.14	27:53	0.961	0.955	0.965	58.4587
	PCB-23	7.82e+07	1.06	y	1.28	27:58	0.964	0.959	0.969	53.8446
	PCB-29	6.91e+07	1.05	y	1.08	28:13	0.972	0.967	0.977	56.3284
	PCB-26	7.26e+07	1.05	y	1.21	28:26	0.980	0.974	0.984	52.9734
	PCB-25	8.41e+07	1.06	y	1.26	28:35	0.985	0.979	0.989	58.6523
	PCB-31	7.92e+07	1.04	y	1.28	28:56	0.997	0.992	1.002	54.2313
	PCB-28	9.67e+07	1.05	y	1.71	29:02	1.001	0.995	1.005	49.6922
	PCB-20/21/33	2.11e+08	1.05	y	1.08	29:40	1.022	1.017	1.027	171.720
	PCB-22	7.20e+07	1.03	y	1.21	30:06	1.037	1.032	1.042	52.4009
	PCB-36	6.03e+07	1.03	y	1.14	30:41	0.933	0.928	0.938	44.9439
	PCB-39	5.99e+07	1.03	y	1.12	31:09	0.947	0.943	0.953	45.7309
	PCB-38	6.49e+07	1.06	y	1.20	31:56	0.971	0.966	0.976	46.0860
	PCB-35	8.20e+07	1.06	y	1.23	32:27	0.987	0.982	0.992	56.6782
	PCB-37	7.60e+07	1.07	y	1.23	32:54	1.001	0.995	1.005	52.6252
	PCB-54	6.51e+07	0.75	y	1.10	27:57	1.001	0.996	1.006	47.7780
	PCB-50	5.19e+07	0.76	y	0.88	29:05	1.041	1.037	1.047	47.7378
	PCB-53	5.27e+07	0.75	y	1.06	29:44	0.947	0.942	0.952	48.8932
	PCB-51	4.72e+07	0.75	y	0.99	30:05	0.958	0.952	0.962	46.9384
	PCB-45	4.11e+07	0.77	y	0.86	30:31	0.972	0.966	0.976	46.9048
	PCB-46	4.03e+07	0.74	y	0.85	30:60	0.987	0.981	0.991	46.9573

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-52/69	1.30e+08	0.75	y	1.28	31:27	1.002	0.996	1.006	99.8647
	PCB-73	6.78e+07	0.76	y	1.35	31:34	1.005	1.000	1.010	49.4036
	PCB-43/49	9.94e+07	0.76	y	0.99	31:43	1.010	1.005	1.015	98.5127
	PCB-47	5.75e+07	0.74	y	1.06	31:56	1.001	0.996	1.006	49.8623
	PCB-48/75	1.32e+08	0.75	y	1.23	32:03	1.004	0.999	1.009	98.8078
	PCB-65	7.14e+07	0.75	y	1.22	32:20	1.013	1.008	1.018	53.5357
	PCB-62	6.53e+07	0.78	y	1.22	32:26	1.016	1.011	1.021	49.0394
	PCB-44	4.79e+07	0.76	y	0.86	32:44	1.026	1.021	1.031	51.0559
	PCB-42/59	1.29e+08	0.76	y	1.14	32:57	1.033	1.028	1.038	103.750
	PCB-41/64/71/72	2.67e+08	0.76	y	1.21	33:32	1.051	1.046	1.056	203.143
	PCB-68	7.77e+07	0.76	y	1.35	33:47	1.059	1.054	1.064	52.8887
	PCB-40	4.08e+07	0.74	y	0.70	34:01	1.066	1.061	1.071	53.4285
	PCB-57	7.20e+07	0.76	y	0.98	34:21	0.970	0.965	0.975	52.5613
	PCB-67	8.08e+07	0.75	y	1.11	34:40	0.979	0.974	0.984	52.2172
	PCB-58	6.63e+07	0.76	y	0.93	34:47	0.982	0.977	0.987	51.1618
	PCB-63	6.70e+07	0.76	y	0.95	34:56	0.987	0.982	0.992	50.3282
	PCB-74	8.33e+07	0.75	y	1.24	35:14	0.995	0.990	1.000	47.9208
	PCB-61/70	1.34e+08	0.76	y	0.95	35:24	1.000	0.995	1.005	100.726
	PCB-76/66	1.43e+08	0.76	y	1.04	35:37	1.006	1.001	1.011	98.1938
	PCB-80	9.00e+07	0.77	y	1.19	35:50	1.001	0.996	1.006	50.9551
	PCB-55	7.81e+07	0.76	y	1.04	36:10	1.010	1.005	1.015	50.5999
	PCB-56/60	1.49e+08	0.76	y	1.01	36:41	1.024	1.019	1.029	99.3411
	PCB-79	8.16e+07	0.76	y	1.08	37:44	1.053	1.048	1.058	51.0074
	PCB-78	8.50e+07	0.76	y	1.27	38:26	0.987	0.982	0.992	48.5778
	PCB-81	8.65e+07	0.77	y	1.33	38:57	1.000	0.995	1.005	47.1968
	PCB-77	7.59e+07	0.79	y	1.10	39:34	1.000	0.995	1.005	49.7255
	PCB-104	5.97e+07	1.55	y	1.18	32:36	1.001	0.996	1.006	46.8679
	PCB-96	5.77e+07	1.56	y	1.14	33:51	1.039	1.034	1.044	47.1241
	PCB-103	4.99e+07	1.53	y	0.96	34:21	1.055	1.050	1.060	48.5026
	PCB-100	4.93e+07	1.57	y	0.94	34:43	1.066	1.061	1.071	48.8657
	PCB-94	3.78e+07	1.55	y	1.06	35:11	0.985	0.980	0.990	43.6410
	PCB-95/98/102	1.40e+08	1.58	y	1.22	35:41	0.999	0.995	1.005	139.069
	PCB-93	3.30e+07	1.50	y	0.84	35:50	1.003	0.997	1.007	47.6818
	PCB-88/91	8.94e+07	1.58	y	1.12	36:06	1.011	1.005	1.015	97.6382
	PCB-121	6.26e+07	1.52	y	1.62	36:12	1.013	1.009	1.019	47.2499
	PCB-84/92	8.56e+07	1.58	y	1.05	37:02	0.991	0.985	0.995	90.6826
	PCB-89	4.61e+07	1.56	y	1.13	37:14	0.996	0.991	1.001	45.2266

RL: MONO, TRI - DECA: ~~_____~~

RL: DI : ~~_____~~

Integrations by Analyst: DMS

Date: 10/27/14

Reviewed by Analyst: _____

Date: _____

Client ID: PCB CS3 14F1302 Filename: 141027E1 S:1 Acq:27-OCT-14 10:33:19 ConCal: ST141027E1-1

Lab ID: ST141027E1-1 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-90/101	9.25e+07	1.54	y	1.10	37:23	1.000	0.995	1.005	93.1033
	PCB-113	5.70e+07	1.54	y	1.41	37:38	1.007	1.002	1.012	44.8242
	PCB-99	5.96e+07	1.60	y	1.34	37:44	1.009	1.004	1.014	49.4512
	PCB-119	5.92e+07	1.55	y	1.53	38:12	0.987	0.982	0.992	46.2334
	PCB-108/112	9.76e+07	1.56	y	1.28	38:21	0.991	0.986	0.996	91.3106
	PCB-83	5.82e+07	1.57	y	1.52	38:31	0.995	0.990	1.000	45.9050
	PCB-97	4.49e+07	1.57	y	1.18	38:43	1.001	0.995	1.005	45.4820
	PCB-86	3.13e+07	1.55	y	0.84	38:52	1.004	0.999	1.009	44.4925
	B-87/117/125	1.78e+08	1.56	y	1.55	38:59	1.008	1.002	1.012	137.248
	PCB-111/115	1.26e+08	1.56	y	1.63	39:08	1.011	1.006	1.016	92.2784
	PCB-85/116	1.01e+08	1.57	y	1.30	39:17	1.015	1.010	1.020	92.6094
	PCB-120	6.47e+07	1.57	y	1.68	39:29	1.020	1.016	1.026	46.2328
	PCB-110	5.95e+07	1.56	y	1.56	39:40	1.025	1.020	1.030	45.8132
	PCB-82	3.94e+07	1.55	y	0.76	40:18	0.977	0.971	0.981	46.1367
	PCB-124	7.42e+07	1.55	y	1.47	40:57	0.992	0.988	0.998	44.9028
	PCB-107/109	1.36e+08	1.56	y	1.32	41:06	0.996	0.991	1.001	91.8094
	PCB-123	6.02e+07	1.59	y	1.17	41:17	1.000	0.996	1.006	45.8112
-	PCB-106/118	1.27e+08	1.58	y	1.17	41:29	1.001	0.996	1.006	91.5597
-	PCB-114	6.03e+07	1.59	y	1.30	42:07	1.000	0.995	1.005	45.1360
	PCB-122	5.20e+07	1.63	y	1.12	42:15	1.003	0.999	1.009	45.0503
	PCB-105	5.31e+07	1.60	y	1.30	42:59	1.000	0.995	1.005	44.4838
	PCB-127	5.92e+07	1.63	y	1.33	43:18	1.000	0.996	1.006	44.5857
	PCB-126	4.97e+07	1.63	y	1.18	45:14	1.000	0.995	1.005	44.8921
	PCB-155	5.72e+07	1.28	y	1.11	36:57	1.001	0.966	1.006	47.2451
	PCB-150	5.30e+07	1.27	y	1.00	38:13	1.035	1.030	1.040	48.7587
	PCB-152	5.81e+07	1.25	y	1.12	38:42	1.048	1.043	1.053	47.8779
	PCB-145	6.24e+07	1.27	y	1.20	39:09	1.060	1.055	1.065	47.7574
	PCB-136	6.60e+07	1.26	y	1.18	39:28	1.069	1.064	1.074	51.5001
	PCB-148	3.57e+07	1.26	y	0.74	39:34	1.071	1.066	1.076	44.0447
	PCB-154	4.79e+07	1.25	y	0.86	40:02	1.084	1.080	1.090	51.3454
	PCB-151	4.05e+07	1.26	y	0.75	40:42	1.102	1.097	1.107	49.8512
	PCB-135	4.47e+07	1.26	y	0.79	40:55	1.108	1.103	1.113	51.8055
	PCB-144	4.09e+07	1.26	y	0.76	41:01	1.111	1.105	1.117	49.3820
	PCB-147	4.57e+07	1.26	y	0.82	41:09	1.114	1.109	1.121	51.2505
	PCB-139/149	8.43e+07	1.26	y	0.76	41:25	1.121	1.116	1.128	101.649
-	PCB-140	4.08e+07	1.25	y	0.72	41:37	1.127	1.121	1.133	51.9268
-	PCB-134/143	9.11e+07	1.23	y	0.92	42:03	0.975	0.970	0.980	97.3096

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
PCB-133/142	7.90e+07	1.22	y	0.82	42:20	0.982	0.977	0.987	94.4706
PCB-131	4.43e+07	1.21	y	0.91	42:31	0.986	0.981	0.991	47.7260
PCB-146/165	1.21e+08	1.23	y	1.25	42:43	0.991	0.986	0.996	95.3254
PCB-132/161	1.04e+08	1.21	y	1.10	42:58	0.997	0.992	1.002	91.7059
PCB-153	5.70e+07	1.21	y	1.25	43:08	1.000	0.995	1.005	44.6538
PCB-168	6.76e+07	1.21	y	1.45	43:20	1.005	1.001	1.011	45.6386
PCB-141	4.57e+07	1.21	y	1.09	43:53	1.001	0.995	1.005	45.7125
PCB-137	4.57e+07	1.20	y	1.06	44:16	1.009	1.004	1.014	46.7024
PCB-130	4.51e+07	1.26	y	0.96	44:22	1.012	1.006	1.016	50.8054
PCB-138/163/164	1.72e+08	1.21	y	1.29	44:45	1.001	0.996	1.006	136.481
PCB-158/160	1.25e+08	1.21	y	1.34	45:00	1.007	1.001	1.011	95.7086
PCB-129	3.92e+07	1.21	y	0.85	45:14	1.012	1.007	1.017	47.1992
PCB-166	6.00e+07	1.21	y	1.19	45:41	0.993	0.988	0.998	44.2803
PCB-159	5.95e+07	1.21	y	1.11	46:01	1.000	0.996	1.006	46.8066
PCB-128/162	1.06e+08	1.22	y	1.05	46:18	1.007	1.002	1.012	88.4554
PCB-167	6.98e+07	1.22	y	1.20	46:41	1.000	0.995	1.005	46.4468
PCB-156	6.62e+07	1.23	y	1.14	48:00	1.000	0.996	1.006	47.3960
PCB-157	6.91e+07	1.24	y	1.16	48:17	1.000	0.995	1.005	46.2554
PCB-169	6.16e+07	1.23	y	1.12	50:19	1.000	0.995	1.005	44.6567
PCB-188	6.54e+07	1.05	y	1.58	42:47	1.001	0.996	1.006	46.1634
PCB-184	6.77e+07	1.06	y	1.63	43:13	1.011	1.006	1.016	46.3013
PCB-179	5.28e+07	1.05	y	1.30	44:01	1.029	1.024	1.034	45.1895
PCB-176	6.10e+07	1.05	y	1.48	44:28	1.040	1.035	1.045	46.1197
PCB-186	6.04e+07	1.03	y	1.45	45:05	1.055	1.050	1.060	46.4290
PCB-178	4.19e+07	1.02	y	1.03	45:34	1.066	1.061	1.071	45.2005
PCB-175	4.26e+07	1.03	y	1.01	45:55	1.074	1.069	1.079	46.9702
PCB-182/187	1.04e+08	1.04	y	1.25	46:06	1.078	1.073	1.083	92.3597
PCB-183	4.96e+07	1.03	y	1.21	46:25	1.086	1.081	1.091	45.8192
PCB-185	5.72e+07	1.03	y	1.80	47:05	0.956	0.951	0.961	45.5501
PCB-174	4.31e+07	1.02	y	1.38	47:27	0.963	0.958	0.968	44.8421
PCB-181	4.82e+07	1.03	y	1.38	47:33	0.966	0.960	0.970	50.1444
PCB-177	4.13e+07	1.03	y	1.26	47:44	0.969	0.963	0.973	47.1568
PCB-171	5.16e+07	1.06	y	1.58	48:01	0.975	0.970	0.980	46.8288
PCB-173	3.65e+07	1.05	y	1.11	48:28	0.984	0.978	0.988	47.2049
PCB-172	5.37e+07	1.04	y	1.63	48:53	0.993	0.987	0.997	47.1534
PCB-192	5.86e+07	1.04	y	1.74	49:05	0.996	0.991	1.001	48.2884
PCB-180	4.38e+07	1.04	y	1.34	49:16	1.000	0.995	1.005	46.7451

RL: MONO, TRI - DECA: ~~_____~~

Integrations by Analyst: DMS

Date: 10/27/14

Client ID: PCB CS3 14F1302 Filename: 141027E1 S:1 Acq:27-OCT-14 10:33:19 ConCal: ST141027E1-1

Lab ID: ST141027E1-1 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-193	5.47e+07	1.05	y	1.72	49:28	1.004	0.999	1.009	45.7213
	PCB-191	5.49e+07	1.05	y	1.69	49:42	1.009	1.004	1.014	46.4938
	PCB-170	4.16e+07	1.02	y	1.60	50:40	1.000	0.995	1.005	45.2495
	PCB-190	5.91e+07	1.04	y	2.21	50:49	1.003	0.998	1.008	46.5302
	PCB-189	5.40e+07	1.03	y	1.55	52:05	1.000	0.995	1.005	45.6107
	PCB-202	4.84e+07	0.90	y	1.08	48:14	1.000	0.995	1.005	46.1800
	PCB-201	5.20e+07	0.89	y	1.15	48:43	1.011	1.005	1.015	46.7038
	PCB-204	5.09e+07	0.91	y	1.14	48:52	1.014	1.008	1.018	46.2160
	PCB-197	4.74e+07	0.90	y	1.07	49:09	1.020	1.015	1.025	45.6596
	PCB-200	4.83e+07	0.90	y	1.06	49:58	1.037	1.032	1.044	46.9142
	PCB-198	3.41e+07	0.89	y	0.76	51:12	1.062	1.059	1.069	46.6134
	PCB-199	3.77e+07	0.89	y	0.80	51:19	1.064	1.061	1.071	48.8764
-	PCB-196/203	7.51e+07	0.89	y	0.80	51:34	1.070	1.066	1.076	96.7869
-	PCB-195	3.96e+07	0.90	y	1.23	52:42	0.983	0.979	0.989	53.7839
	PCB-194	3.44e+07	0.90	y	1.21	53:37	1.000	0.995	1.005	47.2653
	PCB-205	4.42e+07	0.91	y	1.54	53:54	1.006	1.001	1.011	47.6629
	PCB-208	4.14e+07	1.31	y	0.93	52:50	1.000	0.995	1.005	47.7344
	PCB-207	4.86e+07	1.31	y	1.08	53:10	1.006	1.001	1.011	48.0687
	PCB-206	2.59e+07	1.27	y	1.02	55:20	1.000	0.995	1.005	46.6886
	PCB-209	3.11e+07	1.17	y	1.17	56:36	1.000	0.995	1.005	48.1501

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	3.18e+08	2.97	y	16:26	1.27	134.172	
Total Di-PCB	1.94e+09	1.58	y	20:15	1.21	1109.76	
Total Tri-PCB	5.58e+08	1.03	y	24:16	1.10	364.668	
Total Tri-PCB	1.20e+09	1.06	y	27:53	1.21	868.405	Sum:1233.07
Total Tetra-PCB	2.80e+09	0.75	y	27:57	1.09	2113.93	
Total Penta-PCB	2.18e+09	1.55	y	32:36	1.18	1899.51	
Total Penta-PCB	2.96e+08	1.59	y	42:07	1.25	241.725	Sum:2141.24
Total Hexa-PCB	6.77e+08	1.28	y	36:57	0.90	694.394	
Total Hexa-PCB	1.55e+09	1.23	y	42:03	1.11	1325.21	Sum:2019.61
Total Hepta-PCB	1.25e+09	1.05	y	42:47	1.42	1122.50	
Total Octa-PCB	3.94e+08	0.90	y	48:14	0.96	423.950	
Total Octa-PCB	1.24e+08	0.90	y	52:42	1.33	155.626	Sum:579.576
Total Nona-PCB	1.19e+08	1.31	y	52:50	1.01	145.990	
Total Deca-PCB	3.11e+07	1.17	y	56:36	1.17	48.1501	

Total PCB Conc:10558.2821620

RL: MONO, TRI - DECA: _____

Integrations by Analyst: DMS

Date: 10/27/14

Client ID: PCB CS3 14F1302 Filename: 141027E1 S:1 Acq:27-OCT-14 10:33:19 ConCal: ST141027E1-1
Lab ID: ST141027E1-1 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:1.0000 EndCAL: NA

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.76e+08	3.37	y	0.87	16:25	0.633	0.629	0.635	118	118
13C-PCB-3	1.93e+08	3.39	y	0.91	18:55	0.730	0.725	0.733	124	124
13C-PCB-4	9.21e+07	1.57	y	0.59	20:12	0.779	0.775	0.783	91.8	91.8
13C-PCB-9	1.46e+08	1.58	y	0.90	21:55	0.846	0.842	0.850	95.2	95.2
13C-PCB-11	1.58e+08	1.56	y	0.94	25:13	0.973	0.968	0.978	98.8	98.8
13C-PCB-19	9.98e+07	1.09	y	0.53	24:15	0.935	0.930	0.940	110	110
13C-PCB-28	1.14e+08	1.02	y	0.93	29:01	1.003	0.999	1.009	93.2	93.2
13C-PCB-32	1.59e+08	1.07	y	0.80	27:06	1.045	1.040	1.050	117	117
13C-PCB-37	1.17e+08	1.04	y	0.84	32:53	1.137	1.131	1.143	107	107
13C-PCB-47	1.09e+08	0.77	y	0.81	31:55	0.870	0.866	0.874	91.4	91.4
13C-PCB-52	1.01e+08	0.78	y	0.77	31:24	0.856	0.853	0.861	89.6	89.6
13C-PCB-54	1.23e+08	0.79	y	0.97	27:56	0.762	0.758	0.766	86.7	86.7
13C-PCB-70	1.40e+08	0.79	y	1.00	35:25	0.966	0.961	0.971	95.5	95.5
13C-PCB-77	1.39e+08	0.79	y	0.94	39:32	1.078	1.073	1.083	100	100
13C-PCB-80	1.48e+08	0.79	y	1.03	35:49	0.977	0.972	0.982	97.8	97.8
13C-PCB-81	1.38e+08	0.78	y	0.92	38:56	1.062	1.057	1.067	102	102
13C-PCB-95	8.20e+07	1.60	y	0.74	35:43	0.913	0.908	0.918	92.0	92.0
13C-PCB-97	8.35e+07	1.61	y	0.70	38:42	0.989	0.984	0.994	98.4	98.4
13C-PCB-101	9.03e+07	1.57	y	0.78	37:23	0.956	0.951	0.961	95.7	95.7
13C-PCB-104	1.08e+08	1.59	y	1.00	32:34	0.833	0.828	0.836	89.2	89.2
13C-PCB-105	9.20e+07	1.51	y	1.37	42:58	0.928	0.924	0.934	73.0	73.0
13C-PCB-114	1.03e+08	1.53	y	1.36	42:06	0.910	0.905	0.915	81.9	81.9
13C-PCB-118	1.19e+08	1.60	y	0.96	41:26	1.060	1.054	1.064	103	103
13C-PCB-123	1.12e+08	1.56	y	0.89	41:16	1.055	1.050	1.060	104	104
13C-PCB-126	9.37e+07	1.51	y	1.31	45:13	0.977	0.972	0.982	77.7	77.7
13C-PCB-127	9.97e+07	1.51	y	1.47	43:18	0.935	0.931	0.941	73.3	73.3
13C-PCB-138	9.74e+07	1.27	y	1.10	44:42	0.966	0.961	0.971	95.9	95.9
13C-PCB-141	9.21e+07	1.27	y	1.07	43:51	0.948	0.943	0.953	92.8	92.8
13C-PCB-153	1.02e+08	1.29	y	1.15	43:07	0.932	0.927	0.937	96.5	96.5
13C-PCB-155	1.09e+08	1.28	y	0.84	36:56	0.944	0.939	0.949	108	108
13C-PCB-156	1.23e+08	1.27	y	1.30	47:60	1.037	1.032	1.042	103	103
13C-PCB-157	1.29e+08	1.28	y	1.36	48:16	1.043	1.038	1.048	103	103
13C-PCB-159	1.14e+08	1.25	y	1.25	45:60	0.994	0.989	0.999	99.2	99.2
13C-PCB-167	1.25e+08	1.26	y	1.35	46:41	1.009	1.004	1.014	100	100
13C-PCB-169	1.23e+08	1.26	y	1.29	50:18	1.087	1.083	1.093	104	104
13C-PCB-170	5.75e+07	0.47	y	0.54	50:39	1.094	1.089	1.101	115	115
13C-PCB-180	6.97e+07	0.47	y	0.68	49:15	1.064	1.060	1.070	110	110
13C-PCB-188	8.95e+07	0.46	y	0.92	42:45	0.924	0.919	0.929	106	106
13C-PCB-189	7.64e+07	0.46	y	0.72	52:04	1.125	1.120	1.132	116	116
13C-PCB-194	6.01e+07	0.90	y	0.80	53:36	0.995	0.990	1.000	100	100
13C-PCB-202	9.67e+07	0.90	y	0.84	48:12	1.041	1.036	1.046	125	125
13C-PCB-206	5.42e+07	0.79	y	0.65	55:20	1.027	1.021	1.031	111	111
13C-PCB-208	9.33e+07	0.77	y	1.08	52:50	0.980	0.976	0.986	115	115
13C-PCB-209	5.52e+07	1.19	y	0.61	56:35	1.050	1.045	1.055	121	121

CRS vs. RS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.54e+08	0.78	y	1.02	37:42	1.028	1.023	1.034	103	103
13C-PCB-178	5.93e+07	0.45	y	0.61	45:33	0.984	0.979	0.990	105	105

PS vs. IS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.54e+08	0.78	y	1.10	37:42	0.968	0.964	0.974	101	101
13C-PCB-178	5.93e+07	0.45	y	0.90	45:33	0.925	0.920	0.930	94.7	94.7

RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	1.71e+08	1.56	y	1.00	25:56	100
13C-PCB-31	1.31e+08	1.01	y	1.00	28:55	100
13C-PCB-60	1.47e+08	0.77	y	1.00	36:40	100
13C-PCB-111	1.20e+08	1.61	y	1.00	39:07	100
13C-PCB-128	9.23e+07	1.24	y	1.00	46:17	100
13C-PCB-205	7.50e+07	0.89	y	1.00	53:54	100

Analyst: DMS

Date: 10/27/14

Vista Analytical Laboratory - Injection Log Run file: 141027E1 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
141027E1	1	ST141027E1-1	DMS	27-OCT-14	10:33:19	ST141027E1-1	NA
141027E1	2	B4J0119-BS1	DMS	27-OCT-14	11:36:47	ST141027E1-1	NA
141027E1	3	SOLVENT BLANK	DMS	27-OCT-14	12:40:21	ST141027E1-1	NA
141027E1	4	B4J0119-BLK1	DMS	27-OCT-14	13:43:50	ST141027E1-1	NA
141027E1	5	1400762-03@20X	DMS	27-OCT-14	14:47:19	ST141027E1-1	NA
141027E1	6	1400762-04@20X	DMS	27-OCT-14	15:50:47	ST141027E1-1	NA
141027E1	7	1400762-05@20X	DMS	27-OCT-14	16:54:17	ST141027E1-1	NA
141027E1	8	SOLVENT BLANK	DMS	27-OCT-14	17:57:45	ST141027E1-1	NA
141027E1	9	SOLVENT BLANK	DMS	27-OCT-14	19:01:19	ST141027E1-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST

Vista Analytical Laboratory

Beg. Calibration ID: ST141027E1-1 End Calibration ID: NA

	Beg.	End
Ion abundance within QC limits?	✓	NA
Concentration within range?	✓	
First and last eluters present?	✓	
Retention Times within criteria?	DMS 10/27/14	
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	✓	
Forms signed and dated?	✓	
Correct ICAL referenced?	✓	
Run Log:		
-Data file matches Conc Cal ID?	✓	
-Correct instrument listed?	✓	✓
-Samples within 12-hour clock?	y	n

	Beg.	End
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	✓	✓ *
TCDD/TCDF valleys < 25%?	NA	NA
Peaks integrated correctly?	✓	
Manual integrations included?	✓	
8280 CS1 Ending Standard		
-Ratios within limits		
-S/N > 2.5:1		
-CS1 within 12-hour clock		✓

Comments: 10ST 5105 connection. Only 1st. 4th Res. check printed. Used for "mono PCB's" only. DMS 10/28/14

Reviewed by: MD 10/29/14
Initials & Date

* *Ending standard criteria applicable to 8290 only.*

Vista Analytical Laboratory
El Dorado Hills, CA 95762

Calib.Stds.Review 12/2009 rmh

INITIAL CALIBRATION

Initial Calibration RRF Summary (ICAL) Vista Analytical Laboratory
Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Inst. ID. VG-7

Data filename: 141016D1

			Samp# 1	Samp# 3	Samp# 4	Samp# 5	Samp# 6	Samp# 7
			10	0.25	0.50	2.0	40	200
Name	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6
2,3,7,8-TCDD	1.18	8.84 %	1.11	1.36	1.22	1.06	1.16	1.20
1,2,3,7,8-PeCDD	0.92	4.24 %	0.93	0.94	0.93	0.84	0.93	0.95
1,2,3,4,7,8-HxCDD	1.09	5.48 %	1.08	1.18	1.07	1.00	1.08	1.12
1,2,3,6,7,8-HxCDD	1.07	5.59 %	1.06	1.06	1.07	0.96	1.13	1.12
1,2,3,7,8,9-HxCDD	0.93	4.12 %	0.92	0.98	0.95	0.86	0.93	0.94
1,2,3,4,6,7,8-HpCDD	1.12	4.25 %	1.12	1.04	1.14	1.07	1.14	1.17
OCDD	0.95	4.99 %	0.97	0.96	0.97	0.85	0.97	0.98
2,3,7,8-TCDF	1.08	6.64 %	1.00	1.16	1.15	0.99	1.08	1.08
1,2,3,7,8-PeCDF	1.09	5.09 %	1.10	1.13	1.05	1.00	1.11	1.14
2,3,4,7,8-PeCDF	1.04	3.90 %	1.05	1.04	1.06	0.96	1.07	1.08
1,2,3,4,7,8-HxCDF	1.39	3.27 %	1.40	1.42	1.37	1.31	1.42	1.42
1,2,3,6,7,8-HxCDF	1.26	5.39 %	1.26	1.34	1.29	1.14	1.26	1.30
2,3,4,6,7,8-HxCDF	1.30	4.20 %	1.28	1.30	1.33	1.20	1.34	1.35
1,2,3,7,8,9-HxCDF	1.19	3.60 %	1.16	1.25	1.18	1.13	1.20	1.23
1,2,3,4,6,7,8-HpCDF	1.62	4.07 %	1.59	1.67	1.66	1.49	1.64	1.64
1,2,3,4,7,8,9-HpCDF	1.53	4.58 %	1.54	1.58	1.55	1.39	1.53	1.57
OCDF	1.10	4.20 %	1.11	1.09	1.13	1.01	1.13	1.14
13C-2,3,7,8-TCDD	1.07	5.97 %	1.05	1.00	1.07	1.04	1.10	1.18
13C-1,2,3,7,8-PeCDD	1.24	12.79 %	1.06	1.09	1.23	1.23	1.34	1.49
13C-1,2,3,4,7,8-HxCDD	0.72	7.50 %	0.70	0.69	0.70	0.70	0.73	0.83
13C-1,2,3,6,7,8-HxCDD	0.74	6.26 %	0.72	0.71	0.71	0.71	0.73	0.83
13C-1,2,3,7,8,9-HxCDD	0.86	6.66 %	0.83	0.81	0.83	0.83	0.86	0.97
13C-1,2,3,4,6,7,8-HpCDD	0.64	7.66 %	0.63	0.61	0.61	0.62	0.66	0.74
13C-OCDD	0.78	10.54 %	0.70	0.73	0.76	0.77	0.79	0.94
13C-2,3,7,8-TCDF	0.92	3.07 %	0.93	0.89	0.91	0.91	0.94	0.97
13C-1,2,3,7,8-PeCDF	0.95	10.44 %	0.86	0.87	0.90	0.95	1.01	1.12
13C-2,3,4,7,8-PeCDF	0.97	10.58 %	0.89	0.89	0.91	0.96	1.02	1.15
13C-1,2,3,4,7,8-HxCDF	0.99	7.56 %	0.92	0.94	0.96	0.98	1.01	1.13
13C-1,2,3,6,7,8-HxCDF	1.10	7.86 %	1.07	1.00	1.05	1.09	1.12	1.25
13C-2,3,4,6,7,8-HxCDF	1.03	5.39 %	0.97	1.00	1.02	1.01	1.04	1.13
13C-1,2,3,7,8,9-HxCDF	0.86	7.21 %	0.84	0.82	0.82	0.83	0.87	0.98
13C-1,2,3,4,6,7,8-HpCDF	0.71	7.44 %	0.70	0.69	0.67	0.69	0.72	0.82
13C-1,2,3,4,7,8,9-HpCDF	0.71	9.22 %	0.65	0.69	0.67	0.67	0.74	0.83
13C-OCDF	0.87	11.25 %	0.82	0.80	0.83	0.85	0.88	1.06
37Cl-2,3,7,8-TCDD	1.21	11.67 %	1.22	1.08	1.03	1.24	1.27	1.43
13C-1,2,3,4-TCDD	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-1,2,3,4-TCDF	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-1,2,3,4,6,9-HxCDF	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00

ms 10/17/14
CG 10/17/14

Filename: 141016D1 S: 1 Acquired: 16-OCT-14 11:05:57
Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
Sample text: ST141016D1-1 1613 CS3 14I1102

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	10.00	2.08e+06	0.73 y	26:60	-	1.11
2	Unk	1,2,3,7,8-PeCDD	50.00	8.78e+06	0.61 y	31:30	-	0.93
3	Unk	1,2,3,4,7,8-HxCDD	50.00	7.82e+06	1.26 y	34:50	-	1.08
4	Unk	1,2,3,6,7,8-HxCDD	50.00	7.94e+06	1.25 y	34:57	-	1.06
5	Unk	1,2,3,7,8,9-HxCDD	50.00	7.97e+06	1.24 y	35:15	-	0.92
6	Unk	1,2,3,4,6,7,8-HpCDD	50.00	7.29e+06	1.04 y	38:42	-	1.12
7	Unk	OCDD	100.00	1.40e+07	0.89 y	42:02	-	0.97
8	Unk	2,3,7,8-TCDF	10.00	2.78e+06	0.80 y	26:13	-	1.00
9	Unk	1,2,3,7,8-PeCDF	50.00	1.40e+07	1.59 y	30:20	-	1.10
10	Unk	2,3,4,7,8-PeCDF	50.00	1.38e+07	1.59 y	31:14	-	1.05
11	Unk	1,2,3,4,7,8-HxCDF	50.00	1.34e+07	1.29 y	33:56	-	1.40
12	Unk	1,2,3,6,7,8-HxCDF	50.00	1.40e+07	1.29 y	34:04	-	1.26
13	Unk	2,3,4,6,7,8-HxCDF	50.00	1.29e+07	1.31 y	34:40	-	1.28
14	Unk	1,2,3,7,8,9-HxCDF	50.00	1.01e+07	1.27 y	35:39	-	1.16
15	Unk	1,2,3,4,6,7,8-HpCDF	50.00	1.16e+07	1.08 y	37:30	-	1.59
16	Unk	1,2,3,4,7,8,9-HpCDF	50.00	1.04e+07	1.07 y	39:16	-	1.54
17	Unk	OCDF	100.00	1.88e+07	0.91 y	42:16	-	1.11
36	IS	13C-2,3,7,8-TCDD	100.00	1.87e+07	0.79 y	26:58	-	1.05
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.90e+07	0.63 y	31:29	-	1.06
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.44e+07	1.25 y	34:49	-	0.70
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.50e+07	1.25 y	34:56	-	0.72
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	1.72e+07	1.23 y	35:14	-	0.83
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.30e+07	1.07 y	38:42	-	0.63
42	IS	13C-OCDD	200.00	2.89e+07	0.89 y	42:02	-	0.70
43	IS	13C-2,3,7,8-TCDF	100.00	2.77e+07	0.74 y	26:12	-	0.93
44	IS	13C-1,2,3,7,8-PeCDF	100.00	2.54e+07	1.55 y	30:19	-	0.86
45	IS	13C-2,3,4,7,8-PeCDF	100.00	2.63e+07	1.61 y	31:13	-	0.89
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.92e+07	0.51 y	33:55	-	0.92
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	2.23e+07	0.50 y	34:03	-	1.07
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	2.02e+07	0.52 y	34:39	-	0.97
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.73e+07	0.51 y	35:38	-	0.84
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.46e+07	0.43 y	37:29	-	0.70
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.35e+07	0.45 y	39:15	-	0.65
52	IS	13C-OCDF	200.00	3.39e+07	0.92 y	42:15	-	0.82
53	C/Up	37Cl-2,3,7,8-TCDD	10.00	2.18e+06		26:59	-	1.22
54	RS/RT	13C-1,2,3,4-TCDD	100.00	1.79e+07	0.80 y	26:24	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	2.97e+07	0.78 y	24:58	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	2.08e+07	0.51 y	34:21	-	1.00

Filename: 141016D1 S: 3 Acquired: 16-OCT-14 12:42:43
Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
Sample text: ST141016D1-2 1613 CS0 14I1819

	Typ	Name	Amount	Resp	RA		RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.25	5.01e+04	0.71	y	27:03	-	1.36
2	Unk	1,2,3,7,8-PeCDD	1.25	1.89e+05	0.58	y	31:32	-	0.94
3	Unk	1,2,3,4,7,8-HxCDD	1.25	1.80e+05	1.38	y	34:52	-	1.18
4	Unk	1,2,3,6,7,8-HxCDD	1.25	1.66e+05	1.38	y	34:59	-	1.06
5	Unk	1,2,3,7,8,9-HxCDD	1.25	1.76e+05	1.42	y	35:17	-	0.98
6	Unk	1,2,3,4,6,7,8-HpCDD	1.25	1.40e+05	0.92	y	38:44	-	1.04
7	Unk	OCDD	2.50	3.13e+05	0.92	y	42:04	-	0.96
8	Unk	2,3,7,8-TCDF	0.25	6.52e+04	0.82	y	26:17	-	1.16
9	Unk	1,2,3,7,8-PeCDF	1.25	3.11e+05	1.49	y	30:22	-	1.13
10	Unk	2,3,4,7,8-PeCDF	1.25	2.91e+05	1.54	y	31:15	-	1.04
11	Unk	1,2,3,4,7,8-HxCDF	1.25	2.95e+05	1.36	y	33:58	-	1.42
12	Unk	1,2,3,6,7,8-HxCDF	1.25	2.95e+05	1.26	y	34:06	-	1.34
13	Unk	2,3,4,6,7,8-HxCDF	1.25	2.89e+05	1.31	y	34:43	-	1.30
14	Unk	1,2,3,7,8,9-HxCDF	1.25	2.25e+05	1.36	y	35:41	-	1.25
15	Unk	1,2,3,4,6,7,8-HpCDF	1.25	2.54e+05	1.14	y	37:32	-	1.67
16	Unk	1,2,3,4,7,8,9-HpCDF	1.25	2.39e+05	1.08	y	39:18	-	1.58
17	Unk	OCDF	2.50	3.84e+05	0.91	y	42:18	-	1.09
36	IS	13C-2,3,7,8-TCDD	100.00	1.47e+07	0.79	y	27:02	-	1.00
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.61e+07	0.64	y	31:32	-	1.09
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.22e+07	1.24	y	34:51	-	0.69
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.25e+07	1.31	y	34:58	-	0.71
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	1.44e+07	1.29	y	35:16	-	0.81
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.07e+07	1.03	y	38:43	-	0.61
42	IS	13C-OCDD	200.00	2.60e+07	0.89	y	42:03	-	0.73
43	IS	13C-2,3,7,8-TCDF	100.00	2.24e+07	0.75	y	26:16	-	0.89
44	IS	13C-1,2,3,7,8-PeCDF	100.00	2.20e+07	1.59	y	30:21	-	0.87
45	IS	13C-2,3,4,7,8-PeCDF	100.00	2.24e+07	1.61	y	31:15	-	0.89
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.66e+07	0.52	y	33:57	-	0.94
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	1.77e+07	0.51	y	34:05	-	1.00
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.77e+07	0.51	y	34:42	-	1.00
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.45e+07	0.52	y	35:40	-	0.82
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.22e+07	0.44	y	37:31	-	0.69
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.21e+07	0.43	y	39:17	-	0.69
52	IS	13C-OCDF	200.00	2.81e+07	0.92	y	42:17	-	0.80
53	C/Up	37Cl-2,3,7,8-TCDD	0.25	4.00e+04			27:03	-	1.08
54	RS/RT	13C-1,2,3,4-TCDD	100.00	1.48e+07	0.80	y	26:28	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	2.52e+07	0.78	y	25:03	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	1.77e+07	0.53	y	34:23	-	1.00

Filename: 141016D1 S: 4 Acquired: 16-OCT-14 13:31:08
Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
Sample text: ST141016D1-3 1613 CS1 14I1820

	Typ	Name	Amount	Resp	RA		RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.50	9.47e+04	0.71	y	27:03	-	1.22
2	Unk	1,2,3,7,8-PeCDD	2.50	4.17e+05	0.58	y	31:32	-	0.93
3	Unk	1,2,3,4,7,8-HxCDD	2.50	3.52e+05	1.23	y	34:52	-	1.07
4	Unk	1,2,3,6,7,8-HxCDD	2.50	3.60e+05	1.19	y	34:59	-	1.07
5	Unk	1,2,3,7,8,9-HxCDD	2.50	3.72e+05	1.18	y	35:16	-	0.95
6	Unk	1,2,3,4,6,7,8-HpCDD	2.50	3.28e+05	1.04	y	38:44	-	1.14
7	Unk	OCDD	5.00	7.00e+05	0.91	y	42:03	-	0.97
8	Unk	2,3,7,8-TCDF	0.50	1.35e+05	0.76	y	26:17	-	1.15
9	Unk	1,2,3,7,8-PeCDF	2.50	6.14e+05	1.75	y	30:22	-	1.05
10	Unk	2,3,4,7,8-PeCDF	2.50	6.26e+05	1.44	y	31:15	-	1.06
11	Unk	1,2,3,4,7,8-HxCDF	2.50	6.24e+05	1.23	y	33:58	-	1.37
12	Unk	1,2,3,6,7,8-HxCDF	2.50	6.42e+05	1.32	y	34:06	-	1.29
13	Unk	2,3,4,6,7,8-HxCDF	2.50	6.41e+05	1.24	y	34:42	-	1.33
14	Unk	1,2,3,7,8,9-HxCDF	2.50	4.56e+05	1.22	y	35:40	-	1.18
15	Unk	1,2,3,4,6,7,8-HpCDF	2.50	5.24e+05	1.07	y	37:32	-	1.66
16	Unk	1,2,3,4,7,8,9-HpCDF	2.50	4.91e+05	1.14	y	39:17	-	1.55
17	Unk	OCDF	5.00	8.91e+05	0.93	y	42:17	-	1.13
36	IS	13C-2,3,7,8-TCDD	100.00	1.56e+07	0.78	y	27:02	-	1.07
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.79e+07	0.63	y	31:31	-	1.23
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.32e+07	1.27	y	34:51	-	0.70
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.35e+07	1.26	y	34:58	-	0.71
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	1.56e+07	1.27	y	35:16	-	0.83
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.15e+07	1.05	y	38:43	-	0.61
42	IS	13C-OCDD	200.00	2.89e+07	0.89	y	42:03	-	0.76
43	IS	13C-2,3,7,8-TCDF	100.00	2.36e+07	0.78	y	26:16	-	0.91
44	IS	13C-1,2,3,7,8-PeCDF	100.00	2.34e+07	1.58	y	30:21	-	0.90
45	IS	13C-2,3,4,7,8-PeCDF	100.00	2.37e+07	1.54	y	31:14	-	0.91
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.82e+07	0.52	y	33:57	-	0.96
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	1.99e+07	0.52	y	34:05	-	1.05
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.93e+07	0.52	y	34:41	-	1.02
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.55e+07	0.53	y	35:40	-	0.82
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.26e+07	0.43	y	37:31	-	0.67
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.27e+07	0.44	y	39:16	-	0.67
52	IS	13C-OCDF	200.00	3.15e+07	0.89	y	42:17	-	0.83
53	C/Up	37Cl-2,3,7,8-TCDD	0.50	7.54e+04			27:03	-	1.03
54	RS/RT	13C-1,2,3,4-TCDD	100.00	1.46e+07	0.79	y	26:28	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	2.60e+07	0.77	y	25:03	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	1.89e+07	0.52	y	34:22	-	1.00

Filename: 141016D1 S: 5 Acquired: 16-OCT-14 14:19:34
Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
Sample text: ST141016D1-4 1613 CS2 14I1821

	Typ	Name	Amount	Resp	RA		RT	RF	RRF
1	Unk	2,3,7,8-TCDD	2.00	3.13e+05	0.82	y	27:03	-	1.06
2	Unk	1,2,3,7,8-PeCDD	10.00	1.47e+06	0.59	y	31:32	-	0.84
3	Unk	1,2,3,4,7,8-HxCDD	10.00	1.26e+06	1.28	y	34:52	-	1.00
4	Unk	1,2,3,6,7,8-HxCDD	10.00	1.24e+06	1.26	y	34:59	-	0.96
5	Unk	1,2,3,7,8,9-HxCDD	10.00	1.30e+06	1.28	y	35:17	-	0.86
6	Unk	1,2,3,4,6,7,8-HpCDD	10.00	1.21e+06	1.04	y	38:44	-	1.07
7	Unk	OCDD	20.00	2.38e+06	0.87	y	42:03	-	0.85
8	Unk	2,3,7,8-TCDF	2.00	4.47e+05	0.78	y	26:17	-	0.99
9	Unk	1,2,3,7,8-PeCDF	10.00	2.35e+06	1.55	y	30:22	-	1.00
10	Unk	2,3,4,7,8-PeCDF	10.00	2.32e+06	1.57	y	31:15	-	0.96
11	Unk	1,2,3,4,7,8-HxCDF	10.00	2.31e+06	1.29	y	33:58	-	1.31
12	Unk	1,2,3,6,7,8-HxCDF	10.00	2.24e+06	1.28	y	34:06	-	1.14
13	Unk	2,3,4,6,7,8-HxCDF	10.00	2.19e+06	1.30	y	34:42	-	1.20
14	Unk	1,2,3,7,8,9-HxCDF	10.00	1.69e+06	1.33	y	35:41	-	1.13
15	Unk	1,2,3,4,6,7,8-HpCDF	10.00	1.86e+06	1.10	y	37:32	-	1.49
16	Unk	1,2,3,4,7,8,9-HpCDF	10.00	1.69e+06	1.09	y	39:17	-	1.39
17	Unk	OCDF	20.00	3.11e+06	0.93	y	42:17	-	1.01
36	IS	13C-2,3,7,8-TCDD	100.00	1.47e+07	0.79	y	27:02	-	1.04
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.74e+07	0.63	y	31:31	-	1.23
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.26e+07	1.28	y	34:51	-	0.70
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.29e+07	1.24	y	34:58	-	0.71
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	1.51e+07	1.23	y	35:16	-	0.83
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.13e+07	1.05	y	38:43	-	0.62
42	IS	13C-OCDD	200.00	2.79e+07	0.88	y	42:03	-	0.77
43	IS	13C-2,3,7,8-TCDF	100.00	2.26e+07	0.77	y	26:16	-	0.91
44	IS	13C-1,2,3,7,8-PeCDF	100.00	2.36e+07	1.54	y	30:21	-	0.95
45	IS	13C-2,3,4,7,8-PeCDF	100.00	2.40e+07	1.57	y	31:14	-	0.96
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.77e+07	0.50	y	33:57	-	0.98
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	1.97e+07	0.51	y	34:05	-	1.09
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.83e+07	0.52	y	34:41	-	1.01
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.50e+07	0.52	y	35:40	-	0.83
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.24e+07	0.43	y	37:31	-	0.69
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.22e+07	0.43	y	39:16	-	0.67
52	IS	13C-OCDF	200.00	3.07e+07	0.90	y	42:17	-	0.85
53	C/Up	37Cl-2,3,7,8-TCDD	2.00	3.51e+05			27:03	-	1.24
54	RS/RT	13C-1,2,3,4-TCDD	100.00	1.41e+07	0.80	y	26:28	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	2.49e+07	0.77	y	25:03	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	1.80e+07	0.52	y	34:22	-	1.00

Filename: 141016D1 S: 6 Acquired: 16-OCT-14 15:08:00
Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
Sample text: ST141016D1-5 1613 CS4 14I1822

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	40.00	6.36e+06	0.79 y	27:03	-	1.16
2	Unk	1,2,3,7,8-PeCDD	200.00	3.08e+07	0.61 y	31:32	-	0.93
3	Unk	1,2,3,4,7,8-HxCDD	200.00	2.57e+07	1.25 y	34:52	-	1.08
4	Unk	1,2,3,6,7,8-HxCDD	200.00	2.66e+07	1.26 y	34:59	-	1.13
5	Unk	1,2,3,7,8,9-HxCDD	200.00	2.59e+07	1.24 y	35:17	-	0.93
6	Unk	1,2,3,4,6,7,8-HpCDD	200.00	2.46e+07	1.04 y	38:44	-	1.14
7	Unk	OCDD	400.00	5.00e+07	0.89 y	42:03	-	0.97
8	Unk	2,3,7,8-TCDF	40.00	8.92e+06	0.77 y	26:17	-	1.08
9	Unk	1,2,3,7,8-PeCDF	200.00	4.90e+07	1.58 y	30:22	-	1.11
10	Unk	2,3,4,7,8-PeCDF	200.00	4.76e+07	1.60 y	31:15	-	1.07
11	Unk	1,2,3,4,7,8-HxCDF	200.00	4.66e+07	1.28 y	33:58	-	1.42
12	Unk	1,2,3,6,7,8-HxCDF	200.00	4.56e+07	1.28 y	34:06	-	1.26
13	Unk	2,3,4,6,7,8-HxCDF	200.00	4.54e+07	1.26 y	34:42	-	1.34
14	Unk	1,2,3,7,8,9-HxCDF	200.00	3.40e+07	1.28 y	35:40	-	1.20
15	Unk	1,2,3,4,6,7,8-HpCDF	200.00	3.84e+07	1.09 y	37:32	-	1.64
16	Unk	1,2,3,4,7,8,9-HpCDF	200.00	3.69e+07	1.08 y	39:17	-	1.53
17	Unk	OCDF	400.00	6.50e+07	0.92 y	42:18	-	1.13
36	IS	13C-2,3,7,8-TCDD	100.00	1.37e+07	0.81 y	27:02	-	1.10
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.66e+07	0.63 y	31:31	-	1.34
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.19e+07	1.25 y	34:51	-	0.73
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.18e+07	1.26 y	34:58	-	0.73
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	1.40e+07	1.24 y	35:16	-	0.86
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.08e+07	1.07 y	38:43	-	0.66
42	IS	13C-OCDD	200.00	2.58e+07	0.89 y	42:03	-	0.79
43	IS	13C-2,3,7,8-TCDF	100.00	2.07e+07	0.77 y	26:16	-	0.94
44	IS	13C-1,2,3,7,8-PeCDF	100.00	2.21e+07	1.61 y	30:21	-	1.01
45	IS	13C-2,3,4,7,8-PeCDF	100.00	2.23e+07	1.57 y	31:14	-	1.02
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.64e+07	0.51 y	33:57	-	1.01
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	1.82e+07	0.50 y	34:05	-	1.12
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.69e+07	0.51 y	34:41	-	1.04
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.41e+07	0.52 y	35:40	-	0.87
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.17e+07	0.45 y	37:31	-	0.72
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.20e+07	0.44 y	39:16	-	0.74
52	IS	13C-OCDF	200.00	2.87e+07	0.89 y	42:17	-	0.88
53	C/Up	37Cl-2,3,7,8-TCDD	40.00	6.31e+06		27:03	-	1.27
54	RS/RT	13C-1,2,3,4-TCDD	100.00	1.24e+07	0.82 y	26:28	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	2.19e+07	0.79 y	25:03	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	1.63e+07	0.51 y	34:22	-	1.00

Filename: 141016D1 S: 7 Acquired: 16-OCT-14 15:56:26
Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
Sample text: ST141016D1-6 1613 CS5 14I1823

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	200.00	3.39e+07	0.77 y	27:03	-	1.20
2	Unk	1,2,3,7,8-PeCDD	1000.00	1.69e+08	0.62 y	31:32	-	0.95
3	Unk	1,2,3,4,7,8-HxCDD	1000.00	1.51e+08	1.26 y	34:52	-	1.12
4	Unk	1,2,3,6,7,8-HxCDD	1000.00	1.51e+08	1.26 y	34:59	-	1.12
5	Unk	1,2,3,7,8,9-HxCDD	1000.00	1.48e+08	1.26 y	35:17	-	0.94
6	Unk	1,2,3,4,6,7,8-HpCDD	1000.00	1.39e+08	1.04 y	38:43	-	1.17
7	Unk	OCDD	2000.00	2.98e+08	0.90 y	42:03	-	0.98
8	Unk	2,3,7,8-TCDF	200.00	4.44e+07	0.78 y	26:17	-	1.08
9	Unk	1,2,3,7,8-PeCDF	1000.00	2.73e+08	1.58 y	30:22	-	1.14
10	Unk	2,3,4,7,8-PeCDF	1000.00	2.66e+08	1.60 y	31:15	-	1.08
11	Unk	1,2,3,4,7,8-HxCDF	1000.00	2.60e+08	1.27 y	33:58	-	1.42
12	Unk	1,2,3,6,7,8-HxCDF	1000.00	2.64e+08	1.27 y	34:06	-	1.30
13	Unk	2,3,4,6,7,8-HxCDF	1000.00	2.48e+08	1.29 y	34:42	-	1.35
14	Unk	1,2,3,7,8,9-HxCDF	1000.00	1.95e+08	1.28 y	35:40	-	1.23
15	Unk	1,2,3,4,6,7,8-HpCDF	1000.00	2.17e+08	1.09 y	37:32	-	1.64
16	Unk	1,2,3,4,7,8,9-HpCDF	1000.00	2.10e+08	1.10 y	39:17	-	1.57
17	Unk	OCDF	2000.00	3.92e+08	0.91 y	42:17	-	1.14
36	IS	13C-2,3,7,8-TCDD	100.00	1.41e+07	0.77 y	27:02	-	1.18
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.78e+07	0.65 y	31:31	-	1.49
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.35e+07	1.26 y	34:51	-	0.83
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.34e+07	1.26 y	34:58	-	0.83
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	1.57e+07	1.27 y	35:15	-	0.97
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.19e+07	1.05 y	38:43	-	0.74
42	IS	13C-OCDD	200.00	3.03e+07	0.87 y	42:03	-	0.94
43	IS	13C-2,3,7,8-TCDF	100.00	2.06e+07	0.74 y	26:15	-	0.97
44	IS	13C-1,2,3,7,8-PeCDF	100.00	2.39e+07	1.59 y	30:21	-	1.12
45	IS	13C-2,3,4,7,8-PeCDF	100.00	2.46e+07	1.62 y	31:14	-	1.15
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.83e+07	0.52 y	33:57	-	1.13
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	2.03e+07	0.52 y	34:05	-	1.25
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.84e+07	0.51 y	34:41	-	1.13
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.59e+07	0.51 y	35:39	-	0.98
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.32e+07	0.43 y	37:31	-	0.82
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.34e+07	0.44 y	39:16	-	0.83
52	IS	13C-OCDF	200.00	3.45e+07	0.89 y	42:17	-	1.06
53	C/Up	37Cl-2,3,7,8-TCDD	200.00	3.41e+07		27:03	-	1.43
54	RS/RT	13C-1,2,3,4-TCDD	100.00	1.19e+07	0.82 y	26:28	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	2.14e+07	0.76 y	25:03	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	1.62e+07	0.52 y	34:22	-	1.00

Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Inst. ID. VG-7

Data filename: 141016D1			Samp# 1	Samp# 3	Samp# 4	Samp# 5	Samp# 6	Samp# 7
			10	0.25	0.50	2.0	40	200
	RRT Limits							
Name	Lower	Upper	RRT#1	RRT#2	RRT#3	RRT#4	RRT#5	RRT#6
2,3,7,8-TCDD	0.999	-1.002	1.001	1.001	1.001	1.001	1.001	1.001
1,2,3,7,8-PeCDD	0.999	-1.002	1.000	1.000	1.000	1.000	1.000	1.000
1,2,3,4,7,8-HxCDD	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
1,2,3,6,7,8-HxCDD	0.998	-1.004	1.001	1.000	1.000	1.000	1.000	1.000
1,2,3,7,8,9-HxCDD	0.998	-1.004	1.000	1.000	1.000	1.000	1.000	1.001
1,2,3,4,6,7,8-HpCDD	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
OCDD	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
2,3,7,8-TCDF	0.999	-1.003	1.001	1.001	1.001	1.001	1.001	1.001
1,2,3,7,8-PeCDF	0.999	-1.002	1.000	1.001	1.000	1.000	1.000	1.000
2,3,4,7,8-PeCDF	0.999	-1.002	1.000	1.000	1.000	1.000	1.000	1.000
1,2,3,4,7,8-HxCDF	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.001
1,2,3,6,7,8-HxCDF	0.997	-1.005	1.001	1.000	1.001	1.001	1.001	1.000
2,3,4,6,7,8-HxCDF	0.999	-1.001	1.001	1.000	1.000	1.001	1.001	1.000
1,2,3,7,8,9-HxCDF	0.999	-1.001	1.000	1.000	1.000	1.001	1.000	1.000
1,2,3,4,6,7,8-HpCDF	0.999	-1.001	1.000	1.001	1.000	1.000	1.000	1.000
1,2,3,4,7,8,9-HpCDF	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
OCDF	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
13C-2,3,7,8-TCDD	0.976	-1.043	1.021	1.021	1.021	1.021	1.021	1.021
13C-1,2,3,7,8-PeCDD	1.000	-1.567	1.192	1.191	1.191	1.191	1.191	1.191
13C-1,2,3,4,7,8-HxCDD	1.002	-1.026	1.014	1.014	1.014	1.014	1.014	1.014
13C-1,2,3,6,7,8-HxCDD	1.007	-1.029	1.017	1.017	1.017	1.017	1.017	1.017
13C-1,2,3,7,8,9-HxCDD	1.014	-1.038	1.026	1.026	1.026	1.026	1.026	1.026
13C-1,2,3,4,6,7,8-HpCDD	1.117	-1.141	1.127	1.126	1.126	1.126	1.126	1.126
13C-OCDD	1.085	-1.365	1.224	1.223	1.223	1.223	1.223	1.223
13C-2,3,7,8-TCDF	0.923	-1.103	0.992	0.992	0.992	0.992	0.992	0.992
13C-1,2,3,7,8-PeCDF	1.000	-1.425	1.148	1.147	1.147	1.147	1.147	1.147
13C-2,3,4,7,8-PeCDF	1.011	-1.526	1.182	1.181	1.180	1.180	1.180	1.181
13C-1,2,3,4,7,8-HxCDF	0.975	-1.001	0.988	0.988	0.988	0.988	0.988	0.988
13C-1,2,3,6,7,8-HxCDF	0.979	-1.005	0.991	0.991	0.992	0.992	0.992	0.992
13C-2,3,4,6,7,8-HxCDF	1.001	-1.020	1.009	1.009	1.009	1.009	1.009	1.009
13C-1,2,3,7,8,9-HxCDF	1.002	-1.072	1.037	1.037	1.038	1.038	1.037	1.037
13C-1,2,3,4,6,7,8-HpCDF	1.069	-1.111	1.091	1.091	1.091	1.091	1.091	1.091
13C-1,2,3,4,7,8,9-HpCDF	1.098	-1.192	1.143	1.142	1.143	1.143	1.143	1.142
13C-OCDF	1.091	-1.371	1.230	1.230	1.230	1.230	1.230	1.230
37Cl-2,3,7,8-TCDD	0.989	-1.052	1.022	1.022	1.022	1.022	1.022	1.022
13C-1,2,3,4-TCDD	0.000	-0.000	*	*	*	*	*	*
13C-1,2,3,4-TCDF	0.000	-0.000	*	*	*	*	*	*
13C-1,2,3,4,6,9-HxCDF	0.000	-0.000	*	*	*	*	*	*

Filename: 141016D1 S: 1 Acquired: 16-OCT-14 11:05:57
Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
Sample text: ST141016D1-1 1613 CS3 14I1102

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
18	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.11
19	Tot	TCDD EMPC	0.00	-	- n	-	-	1.11
20	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	0.93
21	Tot	PeCDD EMPC	0.00	-	- n	-	-	0.93
22	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.02
23	Tot	HxCDD EMPC	0.00	-	- n	-	-	1.02
24	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.12
25	Tot	HpCDD EMPC	0.00	-	- n	-	-	1.12
26	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.00
27	Tot	TCDF EMPC	0.00	-	- n	-	-	1.00
28	Tot	1st Func. Penta-Furans	0.00	-	- n	-	-	1.07
29	Tot	1st Func. PeCDF EMPC	0.00	-	- n	-	-	1.07
30	Tot	Total Penta-Furans	0.00	-	- n	-	-	1.07
31	Tot	PeCDF EMPC	0.00	-	- n	-	-	1.07
32	Tot	Total Hexa-Furans	0.00	-	- n	-	-	1.28
33	Tot	HxCDF EMPC	0.00	-	- n	-	-	1.28
34	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.57
35	Tot	HpCDF EMPC	0.00	-	- n	-	-	1.57

Filename: 141016D1 S: 3 Acquired: 16-OCT-14 12:42:43
Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
Sample text: ST141016D1-2 1613 CS0 14I1819

	Typ	Name	Amount	Resp	RA		RT	RF	RRF
18	Tot	Total Tetra-Dioxins	0.00	-	-	n	-	-	1.36
19	Tot	TCDD EMPC	0.00	-	-	n	-	-	1.36
20	Tot	Total Penta-Dioxins	0.00	-	-	n	-	-	0.94
21	Tot	PeCDD EMPC	0.00	-	-	n	-	-	0.94
22	Tot	Total Hexa-Dioxins	0.00	-	-	n	-	-	1.07
23	Tot	HxCDD EMPC	0.00	-	-	n	-	-	1.07
24	Tot	Total Hepta-Dioxins	0.00	-	-	n	-	-	1.04
25	Tot	HpCDD EMPC	0.00	-	-	n	-	-	1.04
26	Tot	Total Tetra-Furans	0.00	-	-	n	-	-	1.16
27	Tot	TCDF EMPC	0.00	-	-	n	-	-	1.16
28	Tot	1st Func. Penta-Furans	0.00	-	-	n	-	-	1.08
29	Tot	1st Func. PeCDF EMPC	0.00	-	-	n	-	-	1.08
30	Tot	Total Penta-Furans	0.00	-	-	n	-	-	1.08
31	Tot	PeCDF EMPC	0.00	-	-	n	-	-	1.08
32	Tot	Total Hexa-Furans	0.00	-	-	n	-	-	1.33
33	Tot	HxCDF EMPC	0.00	-	-	n	-	-	1.33
34	Tot	Total Hepta-Furans	0.00	-	-	n	-	-	1.62
35	Tot	HpCDF EMPC	0.00	-	-	n	-	-	1.62

Filename: 141016D1 S: 4 Acquired: 16-OCT-14 13:31:08
Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
Sample text: ST141016D1-3 1613 CS1 14I1820

	Typ	Name	Amount	Resp	RA		RT	RF	RRF
18	Tot	Total Tetra-Dioxins	0.00	-	-	n	-	-	1.22
19	Tot	TCDD EMPC	0.00	-	-	n	-	-	1.22
20	Tot	Total Penta-Dioxins	0.00	-	-	n	-	-	0.93
21	Tot	PeCDD EMPC	0.00	-	-	n	-	-	0.93
22	Tot	Total Hexa-Dioxins	0.00	-	-	n	-	-	1.03
23	Tot	HxCDD EMPC	0.00	-	-	n	-	-	1.03
24	Tot	Total Hepta-Dioxins	0.00	-	-	n	-	-	1.14
25	Tot	HpCDD EMPC	0.00	-	-	n	-	-	1.14
26	Tot	Total Tetra-Furans	0.00	-	-	n	-	-	1.15
27	Tot	TCDF EMPC	0.00	-	-	n	-	-	1.15
28	Tot	1st Func. Penta-Furans	0.00	-	-	n	-	-	1.05
29	Tot	1st Func. PeCDF EMPC	0.00	-	-	n	-	-	1.05
30	Tot	Total Penta-Furans	0.00	-	-	n	-	-	1.05
31	Tot	PeCDF EMPC	0.00	-	-	n	-	-	1.05
32	Tot	Total Hexa-Furans	0.00	-	-	n	-	-	1.30
33	Tot	HxCDF EMPC	0.00	-	-	n	-	-	1.30
34	Tot	Total Hepta-Furans	0.00	-	-	n	-	-	1.60
35	Tot	HpCDF EMPC	0.00	-	-	n	-	-	1.60

Filename: 141016D1 S: 5 Acquired: 16-OCT-14 14:19:34
Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
Sample text: ST141016D1-4 1613 CS2 14I1821

	Typ	Name	Amount	Resp	RA		RT	RF	RRF
18	Tot	Total Tetra-Dioxins	0.00	-	-	n	-	-	1.06
19	Tot	TCDD EMPC	0.00	-	-	n	-	-	1.06
20	Tot	Total Penta-Dioxins	0.00	-	-	n	-	-	0.84
21	Tot	PeCDD EMPC	0.00	-	-	n	-	-	0.84
22	Tot	Total Hexa-Dioxins	0.00	-	-	n	-	-	0.94
23	Tot	HxCDD EMPC	0.00	-	-	n	-	-	0.94
24	Tot	Total Hepta-Dioxins	0.00	-	-	n	-	-	1.07
25	Tot	HpCDD EMPC	0.00	-	-	n	-	-	1.07
26	Tot	Total Tetra-Furans	0.00	-	-	n	-	-	0.99
27	Tot	TCDF EMPC	0.00	-	-	n	-	-	0.99
28	Tot	1st Func. Penta-Furans	0.00	-	-	n	-	-	0.98
29	Tot	1st Func. PeCDF EMPC	0.00	-	-	n	-	-	0.98
30	Tot	Total Penta-Furans	0.00	-	-	n	-	-	0.98
31	Tot	PeCDF EMPC	0.00	-	-	n	-	-	0.98
32	Tot	Total Hexa-Furans	0.00	-	-	n	-	-	1.19
33	Tot	HxCDF EMPC	0.00	-	-	n	-	-	1.19
34	Tot	Total Hepta-Furans	0.00	-	-	n	-	-	1.44
35	Tot	HpCDF EMPC	0.00	-	-	n	-	-	1.44

Filename: 141016D1 S: 6 Acquired: 16-OCT-14 15:08:00
Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
Sample text: ST141016D1-5 1613 CS4 14I1822

	Typ	Name	Amount	Resp	RA		RT	RF	RRF
18	Tot	Total Tetra-Dioxins	0.00	-	-	n	-	-	1.16
19	Tot	TCDD EMPC	0.00	-	-	n	-	-	1.16
20	Tot	Total Penta-Dioxins	0.00	-	-	n	-	-	0.93
21	Tot	PeCDD EMPC	0.00	-	-	n	-	-	0.93
22	Tot	Total Hexa-Dioxins	0.00	-	-	n	-	-	1.04
23	Tot	HxCDD EMPC	0.00	-	-	n	-	-	1.04
24	Tot	Total Hepta-Dioxins	0.00	-	-	n	-	-	1.14
25	Tot	HpCDD EMPC	0.00	-	-	n	-	-	1.14
26	Tot	Total Tetra-Furans	0.00	-	-	n	-	-	1.08
27	Tot	TCDF EMPC	0.00	-	-	n	-	-	1.08
28	Tot	1st Func. Penta-Furans	0.00	-	-	n	-	-	1.09
29	Tot	1st Func. PeCDF EMPC	0.00	-	-	n	-	-	1.09
30	Tot	Total Penta-Furans	0.00	-	-	n	-	-	1.09
31	Tot	PeCDF EMPC	0.00	-	-	n	-	-	1.09
32	Tot	Total Hexa-Furans	0.00	-	-	n	-	-	1.31
33	Tot	HxCDF EMPC	0.00	-	-	n	-	-	1.31
34	Tot	Total Hepta-Furans	0.00	-	-	n	-	-	1.59
35	Tot	HpCDF EMPC	0.00	-	-	n	-	-	1.59

Filename: 141016D1 S: 7 Acquired: 16-OCT-14 15:56:26
Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
Sample text: ST141016D1-6 1613 CS5 14I1823

	Typ	Name	Amount	Resp	RA		RT	RF	RRF
18	Tot	Total Tetra-Dioxins	0.00	-	-	n	-	-	1.20
19	Tot	TCDD EMPC	0.00	-	-	n	-	-	1.20
20	Tot	Total Penta-Dioxins	0.00	-	-	n	-	-	0.95
21	Tot	PeCDD EMPC	0.00	-	-	n	-	-	0.95
22	Tot	Total Hexa-Dioxins	0.00	-	-	n	-	-	1.06
23	Tot	HxCDD EMPC	0.00	-	-	n	-	-	1.06
24	Tot	Total Hepta-Dioxins	0.00	-	-	n	-	-	1.17
25	Tot	HpCDD EMPC	0.00	-	-	n	-	-	1.17
26	Tot	Total Tetra-Furans	0.00	-	-	n	-	-	1.08
27	Tot	TCDF EMPC	0.00	-	-	n	-	-	1.08
28	Tot	1st Func. Penta-Furans	0.00	-	-	n	-	-	1.11
29	Tot	1st Func. PeCDF EMPC	0.00	-	-	n	-	-	1.11
30	Tot	Total Penta-Furans	0.00	-	-	n	-	-	1.11
31	Tot	PeCDF EMPC	0.00	-	-	n	-	-	1.11
32	Tot	Total Hexa-Furans	0.00	-	-	n	-	-	1.32
33	Tot	HxCDF EMPC	0.00	-	-	n	-	-	1.32
34	Tot	Total Hepta-Furans	0.00	-	-	n	-	-	1.60
35	Tot	HpCDF EMPC	0.00	-	-	n	-	-	1.60

Run: 141016D1 Analyte: Cal: 1613VG7-10-16-1 Inst. ID. VG-7

Data filename: 141016D1

Name	Mean RRF	%RSD	Samp# 1 10 RRF#1	Samp# 3 0.25 RRF#2	Samp# 4 0.50 RRF#3	Samp# 5 2.0 RRF#4	Samp# 6 40 RRF#5	Samp# 7 200 RRF#6
Total Tetra-Dioxins	1.18	8.84 %	1.11	1.36	1.22	1.06	1.16	1.20
TCDD EMPC	1.18	8.84 %	1.11	1.36	1.22	1.06	1.16	1.20
Total Penta-Dioxins	0.92	4.24 %	0.93	0.94	0.93	0.84	0.93	0.95
PeCDD EMPC	0.92	4.24 %	0.93	0.94	0.93	0.84	0.93	0.95
Total Hexa-Dioxins	1.02	4.51 %	1.02	1.07	1.03	0.94	1.04	1.06
HxCDD EMPC	1.02	4.51 %	1.02	1.07	1.03	0.94	1.04	1.06
Total Hepta-Dioxins	1.12	4.25 %	1.12	1.04	1.14	1.07	1.14	1.17
HpCDD EMPC	1.12	4.25 %	1.12	1.04	1.14	1.07	1.14	1.17
Total Tetra-Furans	1.08	6.64 %	1.00	1.16	1.15	0.99	1.08	1.08
TCDF EMPC	1.08	6.64 %	1.00	1.16	1.15	0.99	1.08	1.08
1st Func. Penta-Furans	1.06	4.30 %	1.07	1.08	1.05	0.98	1.09	1.11
1st Func. PeCDF EMPC	1.06	4.30 %	1.07	1.08	1.05	0.98	1.09	1.11
Total Penta-Furans	1.06	4.30 %	1.07	1.08	1.05	0.98	1.09	1.11
PeCDF EMPC	1.06	4.30 %	1.07	1.08	1.05	0.98	1.09	1.11
Total Hexa-Furans	1.29	3.86 %	1.28	1.33	1.30	1.19	1.31	1.32
HxCDF EMPC	1.29	3.86 %	1.28	1.33	1.30	1.19	1.31	1.32
Total Hepta-Furans	1.57	4.23 %	1.57	1.62	1.60	1.44	1.59	1.60
HpCDF EMPC	1.57	4.23 %	1.57	1.62	1.60	1.44	1.59	1.60

Vista Analytical Laboratory - Injection Log Run file: 141016D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
141016D1	1	ST141016D1-1	MAS	16-OCT-14	11:05:57	ST141016D1-1	NA
141016D1	2	SOLVENT BLANK	MAS	16-OCT-14	11:54:17	ST141016D1-1	NA
141016D1	3	ST141016D1-2	MAS	16-OCT-14	12:42:43	ST141016D1-1	NA
141016D1	4	ST141016D1-3	MAS	16-OCT-14	13:31:08	ST141016D1-1	NA
141016D1	5	ST141016D1-4	MAS	16-OCT-14	14:19:34	ST141016D1-1	NA
141016D1	6	ST141016D1-5	MAS	16-OCT-14	15:08:00	ST141016D1-1	NA
141016D1	7	ST141016D1-6	MAS	16-OCT-14	15:56:26	ST141016D1-1	NA
141016D1	8	SOLVENT BLANK	MAS	16-OCT-14	16:44:52	ST141016D1-1	NA
141016D1	9	SS141016D1-1	MAS	16-OCT-14	17:33:17	ST141016D1-1	NA
141016D1	10	SOLVENT BLANK	MAS	16-OCT-14	18:21:38	ST141016D1-1	NA

Initial Calibration RRF Summary (ICAL) Vista Analytical Laboratory

Run: Analyte: Cal: 1613TCDFVG7-10-28-14 Inst. ID. VG-7

Data filename: 141028D1

			Samp# 3	Samp# 4	Samp# 5	Samp# 6	Samp# 7	Samp# 8
			0.25	0.50	2.0	10	40	200
Name	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6
13C-1,2,3,4-TCDF	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-2,3,7,8-TCDF	0.89	2.32 %	0.89	0.89	0.89	0.92	0.86	0.91
2,3,7,8-TCDF	0.92	5.92 %	0.96	0.97	0.88	0.90	0.84	0.96

MS 10/29/14

10/29/14

Filename: 141028D1 S: 3 Acquired: 28-OCT-14 11:51:43
Run: Analyte: Cal: 1613TCDFVG7-10-28-1Results:
Sample text: ST141028D1-1 1613 CS0 14I1819

Name	Amount	Resp	RA		RT	RF	RRF
13C-1,2,3,4-TCDF	0.250	3.76e+07	0.79	y	15:23	-	1.00
13C-2,3,7,8-TCDF	100	3.33e+07	0.78	y	17:42	-	0.89
2,3,7,8-TCDF	0.250	8.02e+04	0.71	y	17:43	-	0.96

Filename: 141028D1 S: 4 Acquired: 28-OCT-14 12:23:49
Run: Analyte: Cal: 1613TCDFVG7-10-28-1Results:
Sample text: ST141028D1-2 1613 CS1 14I1820

Name	Amount	Resp	RA		RT	RF	RRF
13C-1,2,3,4-TCDF	0.500	3.90e+07	0.78	y	15:23	-	1.00
13C-2,3,7,8-TCDF	100	3.46e+07	0.77	y	17:41	-	0.89
2,3,7,8-TCDF	0.500	1.67e+05	0.70	y	17:43	-	0.97

Filename: 141028D1 S: 5 Acquired: 28-OCT-14 12:55:55
Run: Analyte: Cal: 1613TCDFVG7-10-28-1Results:
Sample text: ST141028D1-3 1613 CS2 14I1821

Name	Amount	Resp	RA	RT	RF	RRF
13C-1,2,3,4-TCDF	2.00	3.83e+07	0.77 y	15:23	-	1.00
13C-2,3,7,8-TCDF	100	3.41e+07	0.77 y	17:42	-	0.89
2,3,7,8-TCDF	2.00	5.99e+05	0.80 y	17:42	-	0.88

Filename: 141028D1 S: 6 Acquired: 28-OCT-14 13:28:00
Run: Analyte: Cal: 1613TCDFVG7-10-28-1Results:
Sample text: ST141028D1-4 1613 CS3 14I1102

Name	Amount	Resp	RA	RT	RF	RRF
13C-1,2,3,4-TCDF	10.0	3.61e+07	0.79 y	15:24	-	1.00
13C-2,3,7,8-TCDF	100	3.32e+07	0.77 y	17:42	-	0.92
2,3,7,8-TCDF	10.0	3.00e+06	0.76 y	17:43	-	0.90

Filename: 141028D1 S: 7 Acquired: 28-OCT-14 14:00:05
Run: Analyte: Cal: 1613TCDFVG7-10-28-1Results:
Sample text: ST141028D1-5 1613 CS4 14I1822

Name	Amount	Resp	RA	RT	RF	RRF
13C-1,2,3,4-TCDF	40.0	3.75e+07	0.78 y	15:23	-	1.00
13C-2,3,7,8-TCDF	100	3.22e+07	0.78 y	17:42	-	0.86
2,3,7,8-TCDF	40.0	1.08e+07	0.77 y	17:43	-	0.84

Filename: 141028D1 S: 8 Acquired: 28-OCT-14 14:32:11
Run: Analyte: Cal: 1613TCDFVG7-10-28-1Results:
Sample text: ST141028D1-6 1613 CS5 14I1823

Name	Amount	Resp	RA		RT	RF	RRF
13C-1,2,3,4-TCDF	200	3.81e+07	0.78	y	15:23	-	1.00
13C-2,3,7,8-TCDF	100	3.47e+07	0.76	y	17:42	-	0.91
2,3,7,8-TCDF	200	6.65e+07	0.77	y	17:43	-	0.96

FORM 4A/4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory

CCAL ID: ST141028D1-4

Initial Calibration Date: 10-28-14

Instrument ID: VG-7

GC Column ID: DB-225

VER Data Filename: 141028D1 S#6 Analysis Date: 28-OCT-14 Time: 13:28:00

ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	CONC. FOUND	CONC. RANGE 1613 (ng/mL)	CONC. RANGE 8290 (ng/mL)
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	9.8	8.4 - 12.0 (3) 8.6 - 11.6 (4)	8.0 - 12.0
13C-2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	103.0	71.0 - 140.0 (3) 76.0 - 131.0 (4)	70.0 - 130.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6a, Method 1613, under VER.

(4) Contract required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: MJ

Date: 10/29/14

Client ID: 1613 CS3 14I1102 Filename: 141028D1 S:6 Acq:28-OCT-14 13:28:00 ConCal: NA
Lab ID: ST141028D1-4 GC Column ID: DB-225 ICal: 1613TCDFVG7-10-28-14 wt/vol: 1.000 EndCAL: NA

Name	Resp	RA	RT	RRF	Conc	Rec
13C-1,2,3,4-TCDF	3.61e+07	0.79 y	15:24	1.00	100.0	-
13C-2,3,7,8-TCDF	3.32e+07	0.77 y	17:42	0.89	103.0	103.0
2,3,7,8-TCDF	3.00e+06	0.76 y	17:43	0.92	9.830	

Integrations by Analyst: M Date: 10/29/14

Reviewed by Analyst: [signature] Date: 10/29/14

Vista Analytical Laboratory - Injection Log Run file: 141028D1 Instrument ID: VG-7 GC Column ID: DB-225

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
141028D1	1	CP141028D1-1	MAS	28-OCT-14	10:47:37	NA	NA
141028D1	2	SOLVENT BLANK	MAS	28-OCT-14	11:19:38	NA	NA
141028D1	3	ST141028D1-1	MAS	28-OCT-14	11:51:43	NA	NA
141028D1	4	ST141028D1-2	MAS	28-OCT-14	12:23:49	NA	NA
141028D1	5	ST141028D1-3	MAS	28-OCT-14	12:55:55	NA	NA
141028D1	6	ST141028D1-4	MAS	28-OCT-14	13:28:00	NA	NA
141028D1	7	ST141028D1-5	MAS	28-OCT-14	14:00:05	NA	NA
141028D1	8	ST141028D1-6	MAS	28-OCT-14	14:32:11	NA	NA
141028D1	9	SOLVENT BLANK	MAS	28-OCT-14	15:04:18	NA	NA
141028D1	10	SOLVENT BLANK	MAS	28-OCT-14	15:36:25	NA	NA
141028D1	11	SS141028D1-1	MAS	28-OCT-14	16:08:31	NA	NA
141028D1	12	SOLVENT BLANK	MAS	28-OCT-14	16:40:40	NA	NA

Initial Calibration RRF Summary (ICAL) Vista Analytical Laboratory

Run: 140620E1 Analyte: Cal: PCBVG8-6-20-14 Inst. ID. VG-8

Data filename: 140620E1

			Samp# 1	Samp# 2	Samp# 3	Samp# 4	Samp# 5	Samp# 6
			0.25	1.0	2.5	50	400	750
Name	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6
PCB-1	1.25	8.70 %	1.37	1.26	1.26	1.31	1.05	1.27
PCB-2	1.18	8.61 %	1.27	1.26	1.14	1.24	1.00	1.18
PCB-3	1.22	8.48 %	1.31	1.29	1.23	1.26	1.02	1.20
PCB-4/10	1.55	8.01 %	1.67	1.64	1.55	1.61	1.32	1.54
PCB-7/9	1.27	8.90 %	1.43	1.30	1.26	1.30	1.08	1.25
PCB-6	1.26	11.24 %	1.49	1.29	1.26	1.26	1.06	1.20
PCB-5/8	1.23	6.34 %	1.29	1.29	1.23	1.28	1.08	1.23
PCB-14	1.23	11.07 %	1.45	1.24	1.21	1.27	1.03	1.20
PCB-11	1.16	9.82 %	1.33	1.19	1.16	1.18	0.97	1.13
PCB-12/13	1.10	7.82 %	1.20	1.12	1.10	1.14	0.94	1.09
PCB-15	1.21	10.03 %	1.40	1.19	1.22	1.24	1.02	1.18
PCB-19	1.30	14.66 %	1.63	1.31	1.26	1.28	1.05	1.23
PCB-30	1.83	9.12 %	2.06	1.88	1.82	1.87	1.54	1.82
PCB-18	0.86	12.65 %	1.03	0.90	0.85	0.87	0.70	0.81
PCB-17	0.90	11.34 %	1.04	0.96	0.89	0.92	0.74	0.86
PCB-24/27	1.18	9.77 %	1.33	1.20	1.18	1.22	0.98	1.15
PCB-16/32	1.03	12.28 %	1.23	1.08	1.02	1.03	0.84	0.98
PCB-34	1.26	11.67 %	1.47	1.39	1.25	1.23	1.07	1.16
PCB-23	1.31	14.20 %	1.54	1.27	1.41	1.44	1.02	1.19
PCB-29	1.33	17.31 %	1.74	1.32	1.32	1.36	1.06	1.18
PCB-26	1.29	15.40 %	1.62	1.31	1.32	1.31	1.03	1.16
PCB-25	1.34	13.58 %	1.63	1.37	1.36	1.38	1.09	1.21
PCB-31	1.42	18.76 %	1.87	1.40	1.46	1.41	1.05	1.32
PCB-28	1.38	11.74 %	1.60	1.43	1.41	1.45	1.18	1.20
PCB-20/21/33	1.31	12.96 %	1.59	1.33	1.32	1.34	1.08	1.21
PCB-22	1.32	10.73 %	1.50	1.38	1.35	1.39	1.09	1.23
PCB-36	1.38	8.85 %	1.47	1.49	1.38	1.43	1.16	1.32
PCB-39	1.42	9.22 %	1.58	1.49	1.41	1.46	1.19	1.39
PCB-38	1.35	7.47 %	1.39	1.45	1.36	1.41	1.16	1.35
PCB-35	1.38	8.01 %	1.52	1.38	1.35	1.44	1.19	1.38
PCB-37	1.39	9.07 %	1.58	1.40	1.39	1.41	1.18	1.39
PCB-54	1.20	8.53 %	1.29	1.28	1.18	1.24	1.01	1.18
PCB-50	0.97	9.30 %	1.08	1.01	0.96	0.99	0.81	0.95
PCB-53	1.19	11.55 %	1.42	1.24	1.14	1.19	1.00	1.14
PCB-51	1.15	7.40 %	1.21	1.18	1.17	1.23	0.99	1.14
PCB-45	0.97	8.59 %	1.04	0.99	1.00	1.02	0.81	0.93
PCB-46	0.95	15.50 %	1.21	0.98	0.90	0.95	0.77	0.88
PCB-52/69	1.28	8.47 %	1.35	1.33	1.33	1.35	1.07	1.23
PCB-73	1.37	6.52 %	1.42	1.39	1.31	1.43	1.22	1.45
PCB-43/49	1.11	10.59 %	1.30	1.13	1.10	1.13	0.94	1.08
PCB-47	1.13	11.84 %	1.34	1.18	1.04	1.20	0.96	1.07

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PCB-48/75	1.30	10.70 %	1.52	1.28	1.33	1.31	1.08	1.30
PCB-65	1.33	13.12 %	1.67	1.30	1.28	1.32	1.15	1.30
PCB-62	1.29	10.74 %	1.39	1.40	1.30	1.38	1.03	1.25
PCB-44	0.94	10.79 %	1.08	0.90	0.98	0.98	0.78	0.92
PCB-42/59	1.22	9.45 %	1.36	1.25	1.21	1.26	1.01	1.21
PCB-41/64/71/72	1.31	8.83 %	1.48	1.32	1.28	1.35	1.12	1.33
PCB-68	1.49	9.40 %	1.63	1.59	1.48	1.51	1.23	1.46
PCB-40	0.82	12.75 %	0.99	0.83	0.82	0.83	0.67	0.78
PCB-57	1.11	10.20 %	1.26	1.18	1.11	1.15	0.92	1.07
PCB-67	1.07	9.89 %	1.05	1.20	1.12	1.15	0.90	1.03
PCB-58	1.10	11.05 %	1.29	1.13	1.12	1.09	0.91	1.07

PCB-63	1.12	7.49 %	1.17	1.17	1.14	1.16	0.95	1.12
PCB-74	1.20	8.89 %	1.31	1.27	1.22	1.25	1.00	1.18
PCB-61/70	1.08	8.22 %	1.18	1.13	1.08	1.10	0.92	1.06
PCB-76/66	1.14	10.54 %	1.31	1.18	1.12	1.17	0.94	1.10
PCB-80	1.28	9.96 %	1.46	1.33	1.28	1.28	1.07	1.24
PCB-55	1.11	7.19 %	1.16	1.17	1.10	1.14	0.96	1.12
PCB-56/60	1.09	10.58 %	1.26	1.12	1.07	1.09	0.91	1.07
PCB-79	1.12	8.90 %	1.26	1.11	1.12	1.15	0.95	1.13
PCB-78	1.24	11.08 %	1.43	1.32	1.20	1.27	1.02	1.18
PCB-81	1.38	9.94 %	1.51	1.50	1.41	1.41	1.14	1.31
PCB-77	1.21	8.98 %	1.33	1.26	1.22	1.25	1.02	1.17
PCB-104	1.26	10.21 %	1.42	1.31	1.28	1.27	1.03	1.22
PCB-96	1.09	9.49 %	1.24	1.12	1.08	1.10	0.92	1.10
PCB-103	0.93	8.17 %	1.00	0.98	0.89	0.95	0.80	0.98
PCB-100	1.00	7.45 %	1.03	1.08	0.97	1.01	0.87	1.05
PCB-94	1.11	11.35 %	1.31	1.11	1.11	1.13	0.91	1.08
PCB-95/98/102	1.21	9.28 %	1.36	1.25	1.18	1.30	1.04	1.17
PCB-93	1.13	18.48 %	1.36	1.34	1.21	0.95	0.84	1.08
PCB-88/91	1.02	8.29 %	1.00	1.06	1.02	1.15	0.89	1.00
PCB-121	1.90	16.11 %	2.27	2.21	1.94	1.69	1.46	1.85
PCB-84/92	1.05	9.56 %	1.15	1.13	1.05	1.09	0.87	1.02
PCB-89	1.02	10.73 %	1.15	1.04	1.02	1.08	0.83	0.98
PCB-90/101	1.19	9.91 %	1.34	1.26	1.19	1.21	0.99	1.15
PCB-113	1.35	10.72 %	1.54	1.26	1.32	1.51	1.16	1.33
PCB-99	1.29	12.88 %	1.43	1.48	1.35	1.20	1.03	1.24
PCB-119	1.72	7.60 %	1.78	1.88	1.72	1.73	1.48	1.73
PCB-108/112	1.29	7.44 %	1.31	1.39	1.29	1.33	1.10	1.30
PCB-83	1.52	7.96 %	1.66	1.53	1.51	1.58	1.30	1.54
PCB-97	1.25	8.07 %	1.35	1.26	1.27	1.32	1.06	1.23
PCB-86	1.02	10.03 %	1.19	0.96	1.05	0.98	0.90	1.06
PCB-87/117/125	1.56	6.32 %	1.67	1.60	1.55	1.59	1.37	1.57
PCB-111/115	1.75	13.48 %	2.16	1.80	1.69	1.76	1.43	1.66
PCB-85/116	1.30	6.67 %	1.30	1.35	1.33	1.34	1.13	1.35
PCB-120	1.78	10.02 %	2.08	1.80	1.76	1.75	1.52	1.77
PCB-110	1.68	10.37 %	1.90	1.78	1.65	1.72	1.38	1.64
PCB-82	0.74	11.58 %	0.83	0.83	0.73	0.73	0.60	0.71
PCB-124	1.32	11.30 %	1.54	1.34	1.33	1.32	1.07	1.33
PCB-107/109	1.22	8.01 %	1.35	1.31	1.18	1.24	1.08	1.17
PCB-123	1.22	9.00 %	1.30	1.30	1.23	1.28	1.01	1.20
PCB-106/118	1.22	9.57 %	1.37	1.27	1.25	1.26	1.01	1.19
PCB-114	1.36	10.69 %	1.57	1.37	1.36	1.37	1.11	1.35
PCB-122	1.24	10.69 %	1.41	1.32	1.20	1.25	1.02	1.22
PCB-105	1.28	7.83 %	1.36	1.29	1.33	1.34	1.09	1.28
PCB-127	1.14	11.20 %	1.33	1.18	1.14	1.16	0.94	1.09
PCB-126	1.28	9.08 %	1.46	1.28	1.28	1.32	1.10	1.27
PCB-155	1.14	7.40 %	1.11	1.20	1.18	1.20	0.98	1.15
PCB-150	1.06	7.11 %	1.15	1.04	1.05	1.11	0.94	1.10
PCB-152	1.10	11.78 %	1.32	1.08	1.06	1.12	0.92	1.09
PCB-145	1.09	12.69 %	1.35	1.06	1.05	1.11	0.92	1.08
PCB-136	1.08	11.65 %	1.25	1.02	1.08	1.14	0.88	1.14

PCB-148	0.74	7.71 %	0.84	0.75	0.68	0.75	0.70	0.72
PCB-154	0.88	8.65 %	0.96	0.88	0.88	0.93	0.74	0.91
PCB-151	0.81	9.63 %	0.91	0.82	0.78	0.86	0.68	0.81
PCB-135	0.78	6.32 %	0.83	0.75	0.76	0.81	0.70	0.82
PCB-144	0.82	10.98 %	0.93	0.81	0.78	0.90	0.68	0.82
PCB 147	0.83	12.38 %	1.00	0.76	0.78	0.88	0.70	0.85
PCB-139/149	0.84	7.77 %	0.91	0.82	0.83	0.91	0.73	0.86
PCB-140	0.79	11.18 %	0.91	0.73	0.76	0.86	0.66	0.80
PCB-134/143	0.93	12.49 %	1.13	0.94	0.90	0.94	0.78	0.87
PCB-133/142	0.95	11.69 %	1.12	0.98	0.91	0.96	0.79	0.90
PCB-131	0.91	13.39 %	1.11	0.96	0.90	0.90	0.74	0.87

PCB-146/165	1.16	9.91 %	1.33	1.19	1.14	1.16	0.97	1.13
PCB-132/161	1.11	10.87 %	1.31	1.14	1.09	1.13	0.93	1.07
PCB-153	1.18	8.19 %	1.21	1.24	1.26	1.18	0.99	1.18
PCB-168	1.37	10.18 %	1.56	1.44	1.37	1.37	1.14	1.35
PCB-141	0.97	8.49 %	1.08	1.00	0.97	0.99	0.83	0.99
PCB-137	1.07	6.76 %	1.12	1.16	1.05	1.03	0.96	1.11
PCB-130	0.85	9.16 %	0.85	0.83	0.87	0.94	0.71	0.89
PCB-138/163/164	1.23	7.23 %	1.30	1.28	1.22	1.26	1.05	1.24
PCB-158/160	1.29	7.06 %	1.37	1.33	1.29	1.34	1.11	1.29
PCB-129	0.92	10.90 %	1.06	0.98	0.93	0.93	0.76	0.88
PCB-166	1.12	8.09 %	1.17	1.21	1.11	1.13	0.94	1.13
PCB-159	1.16	9.05 %	1.24	1.24	1.18	1.17	0.96	1.20
PCB-128/162	1.02	8.78 %	1.10	1.03	1.04	1.07	0.85	1.03
PCB-167	1.06	9.67 %	1.20	1.04	1.10	1.09	0.88	1.05
PCB-156	1.18	12.60 %	1.44	1.20	1.18	1.17	0.98	1.12
PCB-157	1.08	8.46 %	1.17	1.12	1.13	1.11	0.91	1.06
PCB-169	1.11	8.78 %	1.24	1.15	1.12	1.11	0.94	1.09
PCB-188	1.40	9.77 %	1.59	1.44	1.43	1.43	1.17	1.37
PCB-184	1.24	9.34 %	1.35	1.30	1.25	1.28	1.02	1.23
PCB-179	1.30	11.40 %	1.50	1.37	1.32	1.31	1.05	1.28
PCB-176	1.36	12.01 %	1.55	1.47	1.35	1.38	1.07	1.34
PCB-186	1.28	10.58 %	1.46	1.30	1.25	1.31	1.05	1.29
PCB-178	0.94	10.89 %	0.99	1.05	0.96	0.96	0.75	0.92
PCB-175	0.97	9.63 %	1.03	1.01	0.98	1.02	0.78	0.99
PCB-182/187	1.01	8.25 %	1.07	1.03	1.01	1.06	0.85	1.07
PCB-183	1.08	11.32 %	1.18	1.17	1.08	1.10	0.85	1.12
PCB-185	1.34	11.43 %	1.58	1.37	1.30	1.36	1.10	1.35
PCB-174	1.34	6.35 %	1.41	1.36	1.36	1.32	1.18	1.40
PCB-181	1.36	12.64 %	1.56	1.48	1.28	1.43	1.08	1.33
PCB-177	1.24	12.38 %	1.50	1.23	1.20	1.28	1.03	1.21
PCB-171	1.31	10.27 %	1.52	1.33	1.34	1.31	1.10	1.28
PCB-173	1.16	12.99 %	1.43	1.13	1.15	1.17	0.97	1.11
PCB-172	1.22	11.23 %	1.47	1.18	1.22	1.24	1.05	1.18
PCB-192	1.53	7.91 %	1.69	1.58	1.49	1.56	1.33	1.51
PCB-180	1.43	12.38 %	1.72	1.48	1.44	1.42	1.18	1.34
PCB-193	1.65	9.91 %	1.90	1.71	1.65	1.68	1.40	1.59
PCB-191	1.67	12.03 %	2.04	1.63	1.65	1.68	1.43	1.61
PCB-170	1.50	10.78 %	1.66	1.67	1.51	1.50	1.23	1.44
PCB-190	2.02	10.04 %	2.33	2.09	1.97	2.04	1.70	1.98
PCB-189	1.54	8.43 %	1.70	1.58	1.55	1.59	1.30	1.54
PCB-202	1.04	12.36 %	1.24	1.11	1.01	1.04	0.85	0.99
PCB-201	1.10	11.84 %	1.33	1.11	1.06	1.11	0.92	1.09
PCB-204	0.99	8.55 %	1.10	0.99	0.99	1.04	0.84	1.00
PCB-197	1.07	11.41 %	1.28	1.04	1.04	1.12	0.90	1.06
PCB-200	1.02	8.06 %	1.11	1.02	1.02	1.07	0.87	1.02
PCB-198	0.74	13.95 %	0.90	0.81	0.69	0.77	0.60	0.70
PCB-199	0.73	6.67 %	0.75	0.75	0.73	0.77	0.63	0.74
PCB-196/203	0.77	7.49 %	0.82	0.80	0.75	0.81	0.67	0.79
PCB-195	1.20	7.95 %	1.32	1.23	1.17	1.25	1.04	1.19
PCB-194	1.25	15.62 %	1.61	1.21	1.22	1.24	1.02	1.17

PCB-205	1.41	12.03 %	1.70	1.44	1.41	1.41	1.17	1.36
PCB-208	0.96	16.01 %	1.25	0.95	0.93	0.95	0.78	0.91
PCB-207	0.92	8.32 %	0.99	0.97	0.91	0.93	0.78	0.91
PCB-206	1.03	12.39 %	1.24	1.05	1.03	1.02	0.84	0.98
PCB-209	1.18	8.31 %	1.27	1.19	1.21	1.23	0.99	1.16
Total Mono-PCB	1.22	8.44 %	1.32	1.27	1.21	1.27	1.02	1.22
Total Di-PCB	1.21	8.72 %	1.35	1.24	1.21	1.25	1.03	1.19
Total Tri-PCB	1.16	11.17 %	1.36	1.20	1.15	1.18	0.96	1.12

Total Tri-PCB	1.35	11.56 %	1.58	1.38	1.36	1.39	1.11	1.26
Total Tetra-PCB	1.17	9.20 %	1.32	1.21	1.17	1.21	0.99	1.15
Total Penta-PCB	1.21	8.50 %	1.33	1.27	1.21	1.24	1.03	1.21
Total Penta-PCB	1.26	9.64 %	1.42	1.29	1.26	1.29	1.05	1.24
Total Hexa-PCB	0.92	8.86 %	1.03	0.90	0.89	0.96	0.78	0.93
Total Hexa-PCB	1.08	8.82 %	1.20	1.12	1.08	1.10	0.91	1.07
Total Hepta-PCB	1.27	10.02 %	1.44	1.31	1.27	1.30	1.05	1.26
Total Octa-PCB	0.92	9.46 %	1.04	0.94	0.89	0.95	0.77	0.91
Total Octa-PCB	1.29	11.68 %	1.54	1.29	1.26	1.30	1.08	1.24
Total Nona-PCB	0.96	11.85 %	1.15	0.98	0.94	0.96	0.79	0.93
Total Deca-PCB	1.18	8.31 %	1.27	1.19	1.21	1.23	0.99	1.16
13C-PCB-1	0.89	8.16 %	0.97	0.94	0.91	0.88	0.88	0.76
13C-PCB-3	0.93	4.27 %	0.98	0.94	0.94	0.93	0.91	0.86
13C-PCB-4	0.55	3.55 %	0.56	0.57	0.56	0.55	0.53	0.52
13C-PCB-9	0.83	2.91 %	0.84	0.85	0.84	0.82	0.80	0.79
13C-PCB-11	0.94	1.99 %	0.94	0.96	0.96	0.92	0.93	0.91
13C-PCB-19	0.53	4.01 %	0.55	0.55	0.55	0.53	0.52	0.50
13C-PCB-32	0.81	1.81 %	0.83	0.82	0.83	0.81	0.81	0.79
13C-PCB-28	0.89	8.44 %	0.79	0.91	0.83	0.85	0.96	0.98
13C-PCB-37	0.83	4.85 %	0.80	0.83	0.80	0.80	0.87	0.89
13C-PCB-54	0.85	5.64 %	0.86	0.89	0.91	0.84	0.83	0.77
13C-PCB-52	0.71	4.89 %	0.72	0.74	0.75	0.70	0.68	0.66
13C-PCB-47	0.74	4.31 %	0.74	0.78	0.78	0.73	0.73	0.70
13C-PCB-70	0.94	2.25 %	0.96	0.97	0.96	0.93	0.94	0.91
13C-PCB-80	0.96	2.89 %	0.96	1.00	0.99	0.95	0.95	0.92
13C-PCB-81	0.84	2.20 %	0.83	0.82	0.84	0.82	0.86	0.86
13C-PCB-77	0.89	1.89 %	0.88	0.87	0.90	0.88	0.91	0.91
13C-PCB-104	1.00	6.42 %	0.99	1.06	1.07	0.98	0.96	0.90
13C-PCB-95	0.74	2.70 %	0.74	0.78	0.75	0.73	0.74	0.72
13C-PCB-101	0.79	2.14 %	0.79	0.81	0.79	0.77	0.78	0.77
13C-PCB-97	0.69	1.41 %	0.70	0.69	0.70	0.69	0.69	0.67
13C-PCB-123	0.95	4.62 %	0.88	0.92	0.98	1.00	0.95	0.97
13C-PCB-118	0.98	3.93 %	0.92	0.95	0.99	1.03	1.01	0.99
13C-PCB-114	1.21	3.28 %	1.26	1.20	1.21	1.18	1.25	1.15
13C-PCB-105	1.24	3.05 %	1.26	1.24	1.25	1.20	1.29	1.19
13C-PCB-127	1.34	2.73 %	1.37	1.34	1.38	1.29	1.36	1.30
13C-PCB-126	1.16	2.72 %	1.16	1.17	1.20	1.12	1.19	1.14
13C-PCB-155	0.83	3.93 %	0.86	0.87	0.84	0.83	0.81	0.78
13C-PCB-153	1.11	2.81 %	1.14	1.11	1.13	1.10	1.15	1.06
13C-PCB-141	1.07	3.72 %	1.13	1.09	1.09	1.06	1.06	1.01
13C-PCB-138	1.04	2.24 %	1.06	1.05	1.06	1.02	1.06	1.01
13C-PCB-159	1.20	1.72 %	1.21	1.19	1.22	1.17	1.22	1.19
13C-PCB-167	1.32	1.88 %	1.32	1.33	1.36	1.29	1.32	1.31
13C-PCB-156	1.24	1.98 %	1.23	1.25	1.28	1.21	1.26	1.24
13C-PCB-157	1.31	1.61 %	1.31	1.31	1.34	1.28	1.33	1.29
13C-PCB-169	1.22	1.81 %	1.22	1.21	1.25	1.19	1.22	1.20
13C-PCB-188	0.94	3.81 %	0.97	0.93	0.93	0.93	0.98	0.88
13C-PCB-180	0.67	2.62 %	0.71	0.67	0.67	0.67	0.67	0.65
13C-PCB-170	0.54	1.49 %	0.55	0.54	0.54	0.53	0.54	0.52
13C-PCB-189	0.72	1.73 %	0.72	0.70	0.73	0.73	0.71	0.70
13C-PCB-202	0.83	2.31 %	0.86	0.83	0.83	0.84	0.84	0.80

13C-PCB-194	0.81	1.33 %	0.82	0.82	0.82	0.80	0.81	0.79
13C-PCB-208	1.12	2.11 %	1.10	1.14	1.13	1.14	1.14	1.09
13C-PCB-206	0.66	3.31 %	0.63	0.65	0.66	0.70	0.65	0.65
13C-PCB-209	0.61	2.62 %	0.59	0.60	0.62	0.64	0.61	0.62
13C-PCB-15	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-31	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-60	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-111	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-128	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-205	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00

13C-PCB-79	1.01	4.78 %	0.97	0.97	0.99	1.09	0.99	1.02
13C-PCB-178	0.63	4.30 %	0.62	0.61	0.62	0.69	0.62	0.62
13C-PCB-79	1.20	5.38 %	1.18	1.18	1.17	1.33	1.15	1.19
13C-PCB-178	0.94	5.01 %	0.88	0.91	0.92	1.02	0.93	0.96

Filename: 140620E1 S: 1 Acquired: 20-JUN-14 09:31:44
Run: 140620E1 Analyte: ICal: PCBVG8-6-20-14 Results:
Sample text: ST140620E1-1 PCB CS0 13H1202

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	0.25	4.35e+05	2.82 y	16:14	-	1.37
2	Mono	PCB-2	0.25	4.10e+05	3.17 y	18:35	-	1.27
3	Mono	PCB-3	0.25	4.22e+05	2.92 y	18:49	-	1.31
4	Di	PCB-4/10	1.00	1.23e+06	1.61 y	20:10	-	1.67
5	Di	PCB-7/9	1.00	1.58e+06	1.70 y	21:56	-	1.43
6	Di	PCB-6	0.50	8.23e+05	1.36 y	22:35	-	1.49
7	Di	PCB-5/8	1.00	1.42e+06	1.76 y	23:00	-	1.29
8	Di	PCB-14	0.50	8.96e+05	1.59 y	24:05	-	1.45
9	Di	PCB-11	0.50	8.18e+05	1.39 y	25:16	-	1.33
10	Di	PCB-12/13	1.00	1.48e+06	1.71 y	25:40	-	1.20
11	Di	PCB-15	0.50	8.65e+05	1.43 y	25:58	-	1.40
12	Tri	PCB-19	0.25	2.94e+05	1.11 y	24:16	-	1.63
13	Tri	PCB-30	0.25	3.70e+05	0.89 y	25:09	-	2.06
14	Tri	PCB-18	0.25	2.78e+05	1.19 y	25:54	-	1.03
15	Tri	PCB-17	0.25	2.82e+05	0.94 y	26:04	-	1.04
16	Tri	PCB-24/27	0.50	7.21e+05	1.01 y	26:38	-	1.33
17	Tri	PCB-16/32	0.50	6.64e+05	1.06 y	27:09	-	1.23
18	Tri	PCB-34	0.25	3.70e+05	1.06 y	27:56	-	1.47
19	Tri	PCB-23	0.25	3.85e+05	1.19 y	28:02	-	1.54
20	Tri	PCB-29	0.25	4.36e+05	1.18 y	28:17	-	1.74
21	Tri	PCB-26	0.25	4.07e+05	0.97 y	28:29	-	1.62
22	Tri	PCB-25	0.25	4.10e+05	1.07 y	28:39	-	1.63
23	Tri	PCB-31	0.25	4.70e+05	1.15 y	29:00	-	1.87
24	Tri	PCB-28	0.25	4.03e+05	1.12 y	29:07	-	1.60
25	Tri	PCB-20/21/33	0.75	1.20e+06	1.11 y	29:43	-	1.59
26	Tri	PCB-22	0.25	3.76e+05	1.05 y	30:10	-	1.50
27	Tri	PCB-36	0.25	3.74e+05	1.12 y	30:47	-	1.47
28	Tri	PCB-39	0.25	3.99e+05	1.02 y	31:14	-	1.58
29	Tri	PCB-38	0.25	3.51e+05	1.20 y	32:00	-	1.39
30	Tri	PCB-35	0.25	3.85e+05	1.07 y	32:32	-	1.52
31	Tri	PCB-37	0.25	4.00e+05	0.99 y	32:58	-	1.58
32	Tetra	PCB-54	0.25	3.02e+05	0.84 y	27:59	-	1.29
33	Tetra	PCB-50	0.25	2.51e+05	0.85 y	29:09	-	1.08
34	Tetra	PCB-53	0.25	2.75e+05	0.70 y	29:47	-	1.42
35	Tetra	PCB-51	0.25	2.35e+05	0.68 y	30:08	-	1.21
36	Tetra	PCB-45	0.25	2.02e+05	0.82 y	30:34	-	1.04
37	Tetra	PCB-46	0.25	2.36e+05	0.75 y	31:04	-	1.21
38	Tetra	PCB-52/69	0.50	5.24e+05	0.82 y	31:32	-	1.35
39	Tetra	PCB-73	0.25	2.76e+05	0.88 y	31:39	-	1.42
40	Tetra	PCB-43/49	0.50	5.07e+05	0.72 y	31:49	-	1.30

41	Tetra	PCB-47	0.25	2.69e+05	0.78 y	32:00	-	1.34
42	Tetra	PCB-48/75	0.50	6.11e+05	0.75 y	32:07	-	1.52
43	Tetra	PCB-65	0.25	3.35e+05	0.81 y	32:23	-	1.67
44	Tetra	PCB-62	0.25	2.78e+05	0.66 y	32:30	-	1.39
45	Tetra	PCB-44	0.25	2.18e+05	0.67 y	32:48	-	1.08
46	Tetra	PCB-42/59	0.50	5.48e+05	0.72 y	33:02	-	1.36
47	Tetra	PCB-41/64/71/72	1.00	1.19e+06	0.71 y	33:37	-	1.48
48	Tetra	PCB-68	0.25	3.28e+05	0.80 y	33:52	-	1.63
49	Tetra	PCB-40	0.25	1.99e+05	0.82 y	34:05	-	0.99
50	Tetra	PCB-57	0.25	3.26e+05	0.66 y	34:27	-	1.26
51	Tetra	PCB-67	0.25	2.73e+05	0.74 y	34:45	-	1.05

52	Tetra	PCB-58	0.25	3.35e+05	0.79	y	34:52	-	1.29
53	Tetra	PCB-63	0.25	3.04e+05	0.78	y	35:01	-	1.17
54	Tetra	PCB-74	0.25	3.39e+05	0.76	y	35:18	-	1.31
55	Tetra	PCB-61/70	0.50	6.13e+05	0.75	y	35:29	-	1.18
56	Tetra	PCB-76/66	0.50	6.79e+05	0.81	y	35:42	-	1.31
57	Tetra	PCB-80	0.25	3.81e+05	0.73	y	35:56	-	1.46
58	Tetra	PCB-55	0.25	3.04e+05	0.81	y	36:16	-	1.16
59	Tetra	PCB-56/60	0.50	6.61e+05	0.75	y	36:46	-	1.26
60	Tetra	PCB-79	0.25	3.31e+05	0.86	y	37:48	-	1.26
61	Tetra	PCB-78	0.25	3.20e+05	0.80	y	38:30	-	1.43
62	Tetra	PCB-81	0.25	3.39e+05	0.75	y	39:02	-	1.51
63	Tetra	PCB-77	0.25	3.19e+05	0.68	y	39:38	-	1.33
64	Penta	PCB-104	0.25	2.39e+05	1.52	y	32:40	-	1.42
65	Penta	PCB-96	0.25	2.08e+05	1.62	y	33:56	-	1.24
66	Penta	PCB-103	0.25	1.68e+05	1.38	y	34:27	-	1.00
67	Penta	PCB-100	0.25	1.73e+05	1.61	y	34:49	-	1.03
68	Penta	PCB-94	0.25	1.64e+05	1.42	y	35:17	-	1.31
69	Penta	PCB-95/98/102	0.75	5.11e+05	1.73	y	35:45	-	1.36
70	Penta	PCB-93	0.25	1.71e+05	1.64	y	35:54	-	1.36
71	Penta	PCB-88/91	0.50	2.51e+05	1.76	y	36:10	-	1.00
72	Penta	PCB-121	0.25	2.86e+05	1.39	y	36:17	-	2.27
73	Penta	PCB-84/92	0.50	3.08e+05	1.45	y	37:07	-	1.15
74	Penta	PCB-89	0.25	1.54e+05	1.32	y	37:19	-	1.15
75	Penta	PCB-90/101	0.50	3.59e+05	1.43	y	37:29	-	1.34
76	Penta	PCB-113	0.25	2.06e+05	1.63	y	37:44	-	1.54
77	Penta	PCB-99	0.25	1.92e+05	1.34	y	37:49	-	1.43
78	Penta	PCB-119	0.25	2.11e+05	1.49	y	38:18	-	1.78
79	Penta	PCB-108/112	0.50	3.11e+05	1.68	y	38:27	-	1.31
80	Penta	PCB-83	0.25	1.96e+05	1.33	y	38:37	-	1.66
81	Penta	PCB-97	0.25	1.60e+05	1.69	y	38:48	-	1.35
82	Penta	PCB-86	0.25	1.41e+05	1.52	y	38:56	-	1.19
83	Penta	PCB-87/117/125	0.75	5.92e+05	1.55	y	39:04	-	1.67
84	Penta	PCB-111/115	0.50	5.11e+05	1.55	y	39:14	-	2.16
85	Penta	PCB-85/116	0.50	3.09e+05	1.69	y	39:22	-	1.30
86	Penta	PCB-120	0.25	2.47e+05	1.58	y	39:35	-	2.08
87	Penta	PCB-110	0.25	2.26e+05	1.34	y	39:44	-	1.90
88	Penta	PCB-82	0.25	1.23e+05	1.66	y	40:23	-	0.83
89	Penta	PCB-124	0.25	2.30e+05	1.74	y	41:02	-	1.54
90	Penta	PCB-107/109	0.50	4.02e+05	1.57	y	41:12	-	1.35
91	Penta	PCB-123	0.25	1.93e+05	1.66	y	41:22	-	1.30
92	Penta	PCB-106/118	0.50	4.29e+05	1.45	y	41:33	-	1.37
93	Penta	PCB-114	0.25	2.76e+05	1.56	y	42:12	-	1.57
94	Penta	PCB-122	0.25	2.48e+05	1.55	y	42:20	-	1.41
95	Penta	PCB-105	0.25	2.42e+05	1.73	y	43:04	-	1.36
96	Penta	PCB-127	0.25	2.56e+05	1.65	y	43:24	-	1.33
97	Penta	PCB-126	0.25	2.38e+05	1.59	y	45:17	-	1.46
98	Hexa	PCB-155	0.25	1.62e+05	1.06	y	37:03	-	1.11
99	Hexa	PCB-150	0.25	1.67e+05	1.15	y	38:19	-	1.15
100	Hexa	PCB-152	0.25	1.92e+05	1.35	y	38:47	-	1.32
101	Hexa	PCB-145	0.25	1.95e+05	1.19	y	39:13	-	1.35

102	Hexa	PCB-136	0.25	1.82e+05	1.10 y	39:34	-	1.25
103	Hexa	PCB-148	0.25	1.22e+05	1.18 y	39:39	-	0.84
104	Hexa	PCB-154	0.25	1.40e+05	1.29 y	40:09	-	0.96
105	Hexa	PCB-151	0.25	1.32e+05	1.38 y	40:47	-	0.91
106	Hexa	PCB-135	0.25	1.21e+05	1.08 y	40:59	-	0.83
107	Hexa	PCB-144	0.25	1.35e+05	1.36 y	41:07	-	0.93
108	Hexa	PCB-147	0.25	1.45e+05	1.24 y	41:14	-	1.00
109	Hexa	PCB-139/149	0.50	2.63e+05	1.42 y	41:30	-	0.91
110	Hexa	PCB-140	0.25	1.32e+05	1.26 y	41:41	-	0.91
111	Hexa	PCB-134/143	0.50	3.60e+05	1.29 y	42:07	-	1.13
112	Hexa	PCB-133/142	0.50	3.59e+05	1.27 y	42:25	-	1.12

113	Hexa	PCB-131	0.25	1.78e-05	1.22 y	42:35	-	1.11
114	Hexa	PCB-146/165	0.50	4.25e+05	1.38 y	42:48	-	1.33
115	Hexa	PCB-132/161	0.50	4.18e+05	1.33 y	43:03	-	1.31
116	Hexa	PCB-153	0.25	1.94e+05	1.33 y	43:13	-	1.21
117	Hexa	PCB-168	0.25	2.50e+05	1.10 y	43:25	-	1.56
118	Hexa	PCB-141	0.25	1.70e+05	1.16 y	43:57	-	1.08
119	Hexa	PCB-137	0.25	1.76e+05	1.34 y	44:20	-	1.12
120	Hexa	PCB-130	0.25	1.34e+05	1.41 y	44:26	-	0.85
121	Hexa	PCB-138/163/164	0.75	5.80e+05	1.22 y	44:49	-	1.30
122	Hexa	PCB-158/160	0.50	4.07e+05	1.26 y	45:04	-	1.37
123	Hexa	PCB-129	0.25	1.58e+05	1.11 y	45:18	-	1.06
124	Hexa	PCB-166	0.25	1.98e+05	1.26 y	45:46	-	1.17
125	Hexa	PCB-159	0.25	2.11e+05	1.18 y	46:04	-	1.24
126	Hexa	PCB-128/162	0.50	3.74e+05	1.26 y	46:22	-	1.10
127	Hexa	PCB-167	0.25	2.22e+05	1.41 y	46:46	-	1.20
128	Hexa	PCB-156	0.25	2.47e+05	1.24 y	48:03	-	1.44
129	Hexa	PCB-157	0.25	2.16e+05	1.36 y	48:20	-	1.17
130	Hexa	PCB-169	0.25	2.12e+05	1.07 y	50:23	-	1.24
131	Hepta	PCB-188	0.25	2.17e+05	1.02 y	42:51	-	1.59
132	Hepta	PCB-184	0.25	1.84e+05	0.94 y	43:18	-	1.35
133	Hepta	PCB-179	0.25	2.05e+05	1.05 y	44:04	-	1.50
134	Hepta	PCB-176	0.25	2.12e+05	1.04 y	44:32	-	1.55
135	Hepta	PCB-186	0.25	2.00e+05	0.97 y	45:09	-	1.46
136	Hepta	PCB-178	0.25	1.35e+05	0.98 y	45:38	-	0.99
137	Hepta	PCB-175	0.25	1.41e+05	1.08 y	45:58	-	1.03
138	Hepta	PCB-182/187	0.50	2.91e+05	0.90 y	46:09	-	1.07
139	Hepta	PCB-183	0.25	1.61e+05	0.95 y	46:29	-	1.18
140	Hepta	PCB-185	0.25	1.56e+05	0.97 y	47:08	-	1.58
141	Hepta	PCB-174	0.25	1.40e+05	1.03 y	47:30	-	1.41
142	Hepta	PCB-181	0.25	1.55e+05	1.17 y	47:37	-	1.56
143	Hepta	PCB-177	0.25	1.49e+05	1.09 y	47:46	-	1.50
144	Hepta	PCB-171	0.25	1.51e+05	0.93 y	48:05	-	1.52
145	Hepta	PCB-173	0.25	1.42e+05	0.96 y	48:30	-	1.43
146	Hepta	PCB-172	0.25	1.45e+05	1.13 y	48:55	-	1.47
147	Hepta	PCB-192	0.25	1.68e+05	0.90 y	49:08	-	1.69
148	Hepta	PCB-180	0.25	1.70e+05	0.97 y	49:20	-	1.72
149	Hepta	PCB-193	0.25	1.88e+05	1.13 y	49:31	-	1.90
150	Hepta	PCB-191	0.25	2.02e+05	1.05 y	49:45	-	2.04
151	Hepta	PCB-170	0.25	1.27e+05	1.19 y	50:44	-	1.66
152	Hepta	PCB-190	0.25	1.78e+05	0.91 y	50:55	-	2.33
153	Hepta	PCB-189	0.25	1.70e+05	1.20 y	52:11	-	1.70
154	Octa	PCB-202	0.25	1.49e+05	0.98 y	48:16	-	1.24
155	Octa	PCB-201	0.25	1.60e+05	1.02 y	48:45	-	1.33
156	Octa	PCB-204	0.25	1.33e+05	0.77 y	48:54	-	1.10
157	Octa	PCB-197	0.25	1.54e+05	0.92 y	49:13	-	1.28
158	Octa	PCB-200	0.25	1.34e+05	1.01 y	50:02	-	1.11
159	Octa	PCB-198	0.25	1.08e+05	0.88 y	51:19	-	0.90
160	Octa	PCB-199	0.25	9.08e+04	0.94 y	51:25	-	0.75
161	Octa	PCB-196/203	0.50	1.98e+05	0.81 y	51:40	-	0.82
162	Octa	PCB-195	0.25	1.39e+05	0.81 y	52:48	-	1.32

163	Octa		PCB-194	0.25	1.70e+05	0.85	y	53:40	- 1.61
164	Octa		PCB-205	0.25	1.79e+05	0.98	y	53:57	- 1.70
165	Nona		PCB-208	0.25	1.78e+05	1.17	y	52:57	- 1.25
166	Nona		PCB-207	0.25	1.41e+05	1.37	y	53:14	- 0.99
167	Nona		PCB-206	0.25	1.02e+05	1.41	y	55:20	- 1.24
168	Deca		PCB-209	0.25	9.69e+04	1.15	y	56:37	- 1.27
169	Tot Σ	Total Mono-PCB		0.00	-	-	n	-	- 1.32
170	Tot Σ	Total Di-PCB		0.00	-	-	n	-	- 1.35

171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.36
172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.58
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.32
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.33
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.42
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.03
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.20
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.44
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.04
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.54
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	1.15
182	Tot ╗	Total Deca-PCB	0.25	9.69e+04	1.15	y	56:37	-	1.27
183	Mono╗	13C-PCB-1	100.00	1.27e+08	3.28	y	16:13	-	0.97
184	Mono╗	13C-PCB-3	100.00	1.29e+08	3.32	y	18:48	-	0.98
185	Di-IS	13C-PCB-4	100.00	7.37e+07	1.59	y	20:07	-	0.56
186	Di-IS	13C-PCB-9	100.00	1.10e+08	1.57	y	21:53	-	0.84
187	Di-IS	13C-PCB-11	100.00	1.24e+08	1.57	y	25:15	-	0.94
188	Tri-╗	13C-PCB-19	100.00	7.18e+07	1.06	y	24:15	-	0.55
189	Tri-╗	13C-PCB-32	100.00	1.08e+08	1.08	y	27:09	-	0.83
190	Tri-╗	13C-PCB-28	100.00	1.00e+08	1.05	y	29:05	-	0.79
191	Tri-╗	13C-PCB-37	100.00	1.01e+08	1.07	y	32:57	-	0.80
192	Tetr╗	13C-PCB-54	100.00	9.33e+07	0.80	y	27:59	-	0.86
193	Tetr╗	13C-PCB-52	100.00	7.77e+07	0.81	y	31:30	-	0.72
194	Tetr╗	13C-PCB-47	100.00	8.03e+07	0.78	y	32:00	-	0.74
195	Tetr╗	13C-PCB-70	100.00	1.04e+08	0.80	y	35:31	-	0.96
196	Tetr╗	13C-PCB-80	100.00	1.05e+08	0.80	y	35:55	-	0.96
197	Tetr╗	13C-PCB-81	100.00	8.95e+07	0.80	y	39:02	-	0.83
198	Tetr╗	13C-PCB-77	100.00	9.58e+07	0.80	y	39:37	-	0.88
199	Pent╗	13C-PCB-104	100.00	6.72e+07	1.63	y	32:39	-	0.99
200	Pent╗	13C-PCB-95	100.00	5.03e+07	1.61	y	35:49	-	0.74
201	Pent╗	13C-PCB-101	100.00	5.37e+07	1.61	y	37:29	-	0.79
202	Pent╗	13C-PCB-97	100.00	4.74e+07	1.63	y	38:47	-	0.70
203	Pent╗	13C-PCB-123	100.00	5.97e+07	1.63	y	41:21	-	0.88
204	Pent╗	13C-PCB-118	100.00	6.28e+07	1.61	y	41:32	-	0.92
205	Pent╗	13C-PCB-114	100.00	7.04e+07	1.59	y	42:11	-	1.26
206	Pent╗	13C-PCB-105	100.00	7.09e+07	1.60	y	43:03	-	1.26
207	Pent╗	13C-PCB-127	100.00	7.69e+07	1.57	y	43:22	-	1.37
208	Pent╗	13C-PCB-126	100.00	6.51e+07	1.55	y	45:17	-	1.16
209	Hexa╗	13C-PCB-155	100.00	5.81e+07	1.27	y	37:02	-	0.86
210	Hexa╗	13C-PCB-153	100.00	6.40e+07	1.30	y	43:12	-	1.14
211	Hexa╗	13C-PCB-141	100.00	6.31e+07	1.28	y	43:56	-	1.13
212	Hexa	13C-PCB-138	100.00	5.96e+07	1.29	y	44:47	-	1.06
213	Hexa╗	13C-PCB-159	100.00	6.79e+07	1.28	y	46:04	-	1.21
214	Hexa╗	13C-PCB-167	100.00	7.42e+07	1.28	y	46:45	-	1.32
215	Hexa╗	13C-PCB-156	100.00	6.87e+07	1.28	y	48:02	-	1.23
216	Hexa╗	13C-PCB-157	100.00	7.37e+07	1.28	y	48:18	-	1.31
217	Hexa╗	13C-PCB-169	100.00	6.83e+07	1.27	y	50:23	-	1.22
218	Hept╗	13C-PCB-188	100.00	5.45e+07	0.46	y	42:50	-	0.97
219	Hept╗	13C-PCB-180	100.00	3.96e+07	0.47	y	49:19	-	0.71
220	Hept╗	13C-PCB-170	100.00	3.06e+07	0.46	y	50:44	-	0.55
221	Hept╗	13C-PCB-189	100.00	4.02e+07	0.46	y	52:11	-	0.72

222	Octa¶	13C-PCB-202	100.00	4.83e+07	0.91	y	48:15	-	0.86
223	Octa¶	13C-PCB-194	100.00	4.22e+07	0.90	y	53:39	-	0.82
224	Nona¶	13C-PCB-208	100.00	5.69e+07	0.78	y	52:56	-	1.10
225	Nona¶	13C-PCB-206	100.00	3.28e+07	0.79	y	55:19	-	0.63
226	Deca¶	13C-PCB-209	100.00	3.05e+07	1.17	y	56:36	-	0.59
227	DI-RS	13C-PCB-15	100.00	1.31e+08	1.57	y	25:58	-	1.00
228	Tri-¶	13C-PCB-31	100.00	1.27e+08	1.06	y	28:59	-	1.00
229	Tetr¶	13C-PCB-60	100.00	1.09e+08	0.78	y	36:45	-	1.00
230	Penta	13C-PCB-111	100.00	6.79e+07	1.58	y	39:12	-	1.00
231	Hexa¶	13C-PCB-128	100.00	5.60e+07	1.28	y	46:20	-	1.00

232	Octa╗	13C-PCB-205	100.00	5.17e+07	0.93	y	53:56	-	1.00
233	CRS	13C-PCB-79	100.00	1.05e+08	0.80	y	37:48	-	0.97
234	CRS	13C-PCB-178	100.00	3.50e+07	0.45	y	45:37	-	0.62
235	PS	13C-PCB-79	100.00	1.05e+08	0.80	y	37:48	-	1.18
236	PS	13C-PCB-178	100.00	3.50e+07	0.45	y	45:37	-	0.88

Filename: 140620E1 S: 2 Acquired: 20-JUN-14 10:35:42
Run: 140620E1 Analyte: ICal: PCBVG8-6-20-14 Results:
Sample text: ST140620E1-2 PCB CS1 13H1204

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	1.00	1.98e+06	3.08 y	16:16	-	1.26
2	Mono	PCB-2	1.00	1.97e+06	2.92 y	18:37	-	1.26
3	Mono	PCB-3	1.00	2.01e+06	3.12 y	18:51	-	1.29
4	Di	PCB-4/10	4.00	6.16e+06	1.55 y	20:12	-	1.64
5	Di	PCB-7/9	4.00	7.32e+06	1.64 y	21:57	-	1.30
6	Di	PCB-6	2.00	3.65e+06	1.60 y	22:37	-	1.29
7	Di	PCB-5/8	4.00	7.27e+06	1.61 y	23:01	-	1.29
8	Di	PCB-14	2.00	3.94e+06	1.66 y	24:06	-	1.24
9	Di	PCB-11	2.00	3.77e+06	1.68 y	25:17	-	1.19
10	Di	PCB-12/13	4.00	7.13e+06	1.61 y	25:41	-	1.12
11	Di	PCB-15	2.00	3.79e+06	1.72 y	26:00	-	1.19
12	Tri	PCB-19	1.00	1.20e+06	1.12 y	24:17	-	1.31
13	Tri	PCB-30	1.00	1.72e+06	1.12 y	25:10	-	1.88
14	Tri	PCB-18	1.00	1.24e+06	1.05 y	25:55	-	0.90
15	Tri	PCB-17	1.00	1.31e+06	1.07 y	26:05	-	0.96
16	Tri	PCB-24/27	2.00	3.29e+06	1.07 y	26:40	-	1.20
17	Tri	PCB-16/32	2.00	2.95e+06	1.04 y	27:10	-	1.08
18	Tri	PCB-34	1.00	1.94e+06	1.06 y	27:58	-	1.39
19	Tri	PCB-23	1.00	1.78e+06	1.00 y	28:04	-	1.27
20	Tri	PCB-29	1.00	1.84e+06	1.07 y	28:18	-	1.32
21	Tri	PCB-26	1.00	1.83e+06	1.06 y	28:31	-	1.31
22	Tri	PCB-25	1.00	1.92e+06	1.07 y	28:40	-	1.37
23	Tri	PCB-31	1.00	1.96e+06	1.10 y	29:02	-	1.40
24	Tri	PCB-28	1.00	2.00e+06	1.03 y	29:07	-	1.43
25	Tri	PCB-20/21/33	3.00	5.56e+06	1.09 y	29:45	-	1.33
26	Tri	PCB-22	1.00	1.93e+06	1.07 y	30:11	-	1.38
27	Tri	PCB-36	1.00	1.90e+06	1.15 y	30:47	-	1.49
28	Tri	PCB-39	1.00	1.91e+06	1.10 y	31:16	-	1.49
29	Tri	PCB-38	1.00	1.86e+06	1.05 y	32:02	-	1.45
30	Tri	PCB-35	1.00	1.77e+06	1.19 y	32:33	-	1.38
31	Tri	PCB-37	1.00	1.80e+06	1.09 y	32:59	-	1.40
32	Tetra	PCB-54	1.00	1.51e+06	0.77 y	28:01	-	1.28
33	Tetra	PCB-50	1.00	1.19e+06	0.86 y	29:11	-	1.01
34	Tetra	PCB-53	1.00	1.21e+06	0.82 y	29:49	-	1.24
35	Tetra	PCB-51	1.00	1.15e+06	0.86 y	30:10	-	1.18
36	Tetra	PCB-45	1.00	9.70e+05	0.76 y	30:36	-	0.99
37	Tetra	PCB-46	1.00	9.57e+05	0.75 y	31:05	-	0.98
38	Tetra	PCB-52/69	2.00	2.60e+06	0.79 y	31:33	-	1.33
39	Tetra	PCB-73	1.00	1.36e+06	0.84 y	31:40	-	1.39
40	Tetra	PCB-43/49	2.00	2.21e+06	0.81 y	31:50	-	1.13
41	Tetra	PCB-47	1.00	1.22e+06	0.72 y	32:02	-	1.18

42	Tetra	PCB-48/75	2.00	2.64e+06	0.76	y	32:09	-	1.28
43	Tetra	PCB-65	1.00	1.34e+06	0.76	y	32:25	-	1.30
44	Tetra	PCB-62	1.00	1.44e+06	0.77	y	32:32	-	1.40
45	Tetra	PCB-44	1.00	9.24e+05	0.78	y	32:50	-	0.90
46	Tetra	PCB-42/59	2.00	2.58e+06	0.75	y	33:04	-	1.25
47	Tetra	PCB-41/64/71/72	4.00	5.45e+06	0.78	y	33:39	-	1.32
48	Tetra	PCB-68	1.00	1.64e+06	0.79	y	33:54	-	1.59
49	Tetra	PCB-40	1.00	8.54e+05	0.76	y	34:07	-	0.83
50	Tetra	PCB-57	1.00	1.51e+06	0.73	y	34:29	-	1.18
51	Tetra	PCB-67	1.00	1.53e+06	0.78	y	34:47	-	1.20
52	Tetra	PCB-58	1.00	1.45e+06	0.75	y	34:54	-	1.13

53	Tetra	PCB-63	1.00	1.51e+06	0.75 y	35:03	-	1.17
54	Tetra	PCB-74	1.00	1.62e+06	0.77 y	35:20	-	1.27
55	Tetra	PCB-61/70	2.00	2.91e+06	0.80 y	35:31	-	1.13
56	Tetra	PCB-76/66	2.00	3.02e+06	0.75 y	35:44	-	1.18
57	Tetra	PCB-80	1.00	1.75e+06	0.82 y	35:57	-	1.33
58	Tetra	PCB-55	1.00	1.55e+06	0.78 y	36:17	-	1.17
59	Tetra	PCB-56/60	2.00	2.96e+06	0.79 y	36:47	-	1.12
60	Tetra	PCB-79	1.00	1.47e+06	0.75 y	37:50	-	1.11
61	Tetra	PCB-78	1.00	1.43e+06	0.78 y	38:32	-	1.32
62	Tetra	PCB-81	1.00	1.62e+06	0.82 y	39:04	-	1.50
63	Tetra	PCB-77	1.00	1.46e+06	0.80 y	39:40	-	1.26
64	Penta	PCB-104	1.00	1.12e+06	1.57 y	32:42	-	1.31
65	Penta	PCB-96	1.00	9.56e+05	1.70 y	33:57	-	1.12
66	Penta	PCB-103	1.00	8.44e+05	1.51 y	34:29	-	0.98
67	Penta	PCB-100	1.00	9.21e+05	1.69 y	34:50	-	1.08
68	Penta	PCB-94	1.00	6.94e+05	1.57 y	35:18	-	1.11
69	Penta	PCB-95/98/102	3.00	2.34e+06	1.61 y	35:47	-	1.25
70	Penta	PCB-93	1.00	8.35e+05	1.78 y	35:55	-	1.34
71	Penta	PCB-88/91	2.00	1.32e+06	1.53 y	36:12	-	1.06
72	Penta	PCB-121	1.00	1.38e+06	1.59 y	36:18	-	2.21
73	Penta	PCB-84/92	2.00	1.48e+06	1.69 y	37:09	-	1.13
74	Penta	PCB-89	1.00	6.78e+05	1.51 y	37:20	-	1.04
75	Penta	PCB-90/101	2.00	1.64e+06	1.61 y	37:31	-	1.26
76	Penta	PCB-113	1.00	8.19e+05	1.58 y	37:44	-	1.26
77	Penta	PCB-99	1.00	9.67e+05	1.59 y	37:50	-	1.48
78	Penta	PCB-119	1.00	1.04e+06	1.76 y	38:18	-	1.88
79	Penta	PCB-108/112	2.00	1.54e+06	1.59 y	38:27	-	1.39
80	Penta	PCB-83	1.00	8.48e+05	1.61 y	38:38	-	1.53
81	Penta	PCB-97	1.00	7.01e+05	1.71 y	38:49	-	1.26
82	Penta	PCB-86	1.00	5.31e+05	1.42 y	38:58	-	0.96
83	Penta	PCB-87/117/125	3.00	2.66e+06	1.67 y	39:05	-	1.60
84	Penta	PCB-111/115	2.00	2.00e+06	1.53 y	39:15	-	1.80
85	Penta	PCB-85/116	2.00	1.50e+06	1.61 y	39:23	-	1.35
86	Penta	PCB-120	1.00	1.00e+06	1.51 y	39:37	-	1.80
87	Penta	PCB-110	1.00	9.88e+05	1.74 y	39:46	-	1.78
88	Penta	PCB-82	1.00	6.18e+05	1.61 y	40:23	-	0.83
89	Penta	PCB-124	1.00	9.98e+05	1.74 y	41:03	-	1.34
90	Penta	PCB-107/109	2.00	1.94e+06	1.58 y	41:12	-	1.31
91	Penta	PCB-123	1.00	9.67e+05	1.61 y	41:22	-	1.30
92	Penta	PCB-106/118	2.00	1.95e+06	1.71 y	41:35	-	1.27
93	Penta	PCB-114	1.00	1.19e+06	1.64 y	42:13	-	1.37
94	Penta	PCB-122	1.00	1.14e+06	1.68 y	42:21	-	1.32
95	Penta	PCB-105	1.00	1.16e+06	1.68 y	43:05	-	1.29
96	Penta	PCB-127	1.00	1.14e+06	1.58 y	43:24	-	1.18
97	Penta	PCB-126	1.00	1.08e+06	1.48 y	45:19	-	1.28
98	Hexa	PCB-155	1.00	8.43e+05	1.23 y	37:03	-	1.20
99	Hexa	PCB-150	1.00	7.33e+05	1.34 y	38:20	-	1.04
100	Hexa	PCB-152	1.00	7.58e+05	1.20 y	38:48	-	1.08
101	Hexa	PCB-145	1.00	7.48e+05	1.15 y	39:15	-	1.06
102	Hexa	PCB-136	1.00	7.19e+05	1.34 y	39:33	-	1.02

103	Hexa	PCB-148	1.00	5.31e-05	1.18 y	39:40	-	0.75
104	Hexa	PCB-154	1.00	6.17e+05	1.37 y	40:10	-	0.88
105	Hexa	PCB-151	1.00	5.78e+05	1.33 y	40:48	-	0.82
106	Hexa	PCB-135	1.00	5.29e+05	1.36 y	41:01	-	0.75
107	Hexa	PCB-144	1.00	5.73e+05	1.29 y	41:08	-	0.81
108	Hexa	PCB-147	1.00	5.38e+05	1.32 y	41:16	-	0.76
109	Hexa	PCB-139/149	2.00	1.16e+06	1.33 y	41:30	-	0.82
110	Hexa	PCB-140	1.00	5.12e+05	1.26 y	41:42	-	0.73
111	Hexa	PCB-134/143	2.00	1.51e+06	1.24 y	42:09	-	0.94
112	Hexa	PCB-133/142	2.00	1.57e+06	1.37 y	42:26	-	0.98
113	Hexa	PCB-131	1.00	7.67e+05	1.32 y	42:36	-	0.96

114	Hexa	PCB-146/165	2.00	1.91e+06	1.21 y	42:48	-	1.19
115	Hexa	PCB-132/161	2.00	1.82e+06	1.22 y	43:03	-	1.14
116	Hexa	PCB-153	1.00	9.94e+05	1.17 y	43:14	-	1.24
117	Hexa	PCB-168	1.00	1.15e+06	1.10 y	43:27	-	1.44
118	Hexa	PCB-141	1.00	7.87e+05	1.28 y	43:58	-	1.00
119	Hexa	PCB-137	1.00	9.10e+05	1.29 y	44:21	-	1.16
120	Hexa	PCB-130	1.00	6.47e+05	1.23 y	44:28	-	0.83
121	Hexa	PCB-138/163/164	3.00	2.92e+06	1.18 y	44:50	-	1.28
122	Hexa	PCB-158/160	2.00	2.01e+06	1.38 y	45:05	-	1.33
123	Hexa	PCB-129	1.00	7.44e+05	1.17 y	45:19	-	0.98
124	Hexa	PCB-166	1.00	1.04e+06	1.28 y	45:46	-	1.21
125	Hexa	PCB-159	1.00	1.07e+06	1.23 y	46:05	-	1.24
126	Hexa	PCB-128/162	2.00	1.76e+06	1.16 y	46:22	-	1.03
127	Hexa	PCB-167	1.00	1.00e+06	1.19 y	46:47	-	1.04
128	Hexa	PCB-156	1.00	1.09e+06	1.12 y	48:04	-	1.20
129	Hexa	PCB-157	1.00	1.06e+06	1.22 y	48:20	-	1.12
130	Hexa	PCB-169	1.00	1.01e+06	1.16 y	50:24	-	1.15
131	Hepta	PCB-188	1.00	9.64e+05	1.15 y	42:52	-	1.44
132	Hepta	PCB-184	1.00	8.74e+05	0.93 y	43:18	-	1.30
133	Hepta	PCB-179	1.00	9.19e+05	1.16 y	44:06	-	1.37
134	Hepta	PCB-176	1.00	9.89e+05	1.02 y	44:34	-	1.47
135	Hepta	PCB-186	1.00	8.74e+05	1.12 y	45:09	-	1.30
136	Hepta	PCB-178	1.00	7.05e+05	1.02 y	45:38	-	1.05
137	Hepta	PCB-175	1.00	6.78e+05	0.95 y	45:59	-	1.01
138	Hepta	PCB-182/187	2.00	1.38e+06	0.98 y	46:11	-	1.03
139	Hepta	PCB-183	1.00	7.83e+05	1.07 y	46:29	-	1.17
140	Hepta	PCB-185	1.00	6.66e+05	0.96 y	47:09	-	1.37
141	Hepta	PCB-174	1.00	6.57e+05	1.07 y	47:31	-	1.36
142	Hepta	PCB-181	1.00	7.19e+05	0.90 y	47:36	-	1.48
143	Hepta	PCB-177	1.00	5.95e+05	0.98 y	47:47	-	1.23
144	Hepta	PCB-171	1.00	6.43e+05	1.06 y	48:04	-	1.33
145	Hepta	PCB-173	1.00	5.49e+05	1.09 y	48:31	-	1.13
146	Hepta	PCB-172	1.00	5.72e+05	1.17 y	48:57	-	1.18
147	Hepta	PCB-192	1.00	7.66e+05	1.07 y	49:09	-	1.58
148	Hepta	PCB-180	1.00	7.16e+05	1.13 y	49:20	-	1.48
149	Hepta	PCB-193	1.00	8.30e+05	1.09 y	49:32	-	1.71
150	Hepta	PCB-191	1.00	7.89e+05	1.14 y	49:46	-	1.63
151	Hepta	PCB-170	1.00	6.49e+05	1.09 y	50:45	-	1.67
152	Hepta	PCB-190	1.00	8.09e+05	1.12 y	50:55	-	2.09
153	Hepta	PCB-189	1.00	8.02e+05	1.19 y	52:12	-	1.58
154	Octa	PCB-202	1.00	6.64e+05	0.98 y	48:17	-	1.11
155	Octa	PCB-201	1.00	6.64e+05	0.96 y	48:46	-	1.11
156	Octa	PCB-204	1.00	5.92e+05	0.96 y	48:55	-	0.99
157	Octa	PCB-197	1.00	6.20e+05	0.87 y	49:13	-	1.04
158	Octa	PCB-200	1.00	6.09e+05	0.92 y	50:03	-	1.02
159	Octa	PCB-198	1.00	4.81e+05	0.77 y	51:20	-	0.81
160	Octa	PCB-199	1.00	4.49e+05	0.78 y	51:25	-	0.75
161	Octa	PCB-196/203	2.00	9.60e+05	0.87 y	51:40	-	0.80
162	Octa	PCB-195	1.00	6.50e+05	0.91 y	52:49	-	1.23
163	Octa	PCB-194	1.00	6.42e+05	1.01 y	53:40	-	1.21

164	Octa	PCB-205	1.00	7.63e+05	0.88	y	53:57	-	1.44
165	Nona	PCB-208	1.00	7.07e+05	1.32	y	52:57	-	0.95
166	Nona	PCB-207	1.00	7.22e+05	1.40	y	53:16	-	0.97
167	Nona	PCB-206	1.00	4.47e+05	1.26	y	55:21	-	1.05
168	Deca	PCB-209	1.00	4.65e+05	1.13	y	56:37	-	1.19
169	Tot ╗	Total Mono-PCB	0.00	-	-	n	-	-	1.27
170	Tot ╗	Total Di-PCB	0.00	-	-	n	-	-	1.24
171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.20

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.38
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.21
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.27
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.29
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.90
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.12
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.31
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.94
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.29
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	0.98
182	Tot ╗	Total Deca-PCB	1.00	4.65e+05	1.13	y	56:37	-	1.19
183	Mono╗	13C-PCB-1	100.00	1.56e+08	3.23	y	16:15	-	0.94
184	Mono╗	13C-PCB-3	100.00	1.56e+08	3.29	y	18:50	-	0.94
185	Di-IS	13C-PCB-4	100.00	9.40e+07	1.58	y	20:09	-	0.57
186	Di-IS	13C-PCB-9	100.00	1.41e+08	1.60	y	21:55	-	0.85
187	Di-IS	13C-PCB-11	100.00	1.59e+08	1.57	y	25:17	-	0.96
188	Tri-╗	13C-PCB-19	100.00	9.18e+07	1.06	y	24:16	-	0.55
189	Tri-╗	13C-PCB-32	100.00	1.37e+08	1.08	y	27:10	-	0.82
190	Tri-╗	13C-PCB-28	100.00	1.40e+08	1.05	y	29:07	-	0.91
191	Tri-╗	13C-PCB-37	100.00	1.28e+08	1.06	y	32:59	-	0.83
192	Tetr╗	13C-PCB-54	100.00	1.18e+08	0.81	y	28:00	-	0.89
193	Tetr╗	13C-PCB-52	100.00	9.78e+07	0.79	y	31:30	-	0.74
194	Tetr╗	13C-PCB-47	100.00	1.03e+08	0.79	y	32:01	-	0.78
195	Tetr╗	13C-PCB-70	100.00	1.28e+08	0.80	y	35:31	-	0.97
196	Tetr╗	13C-PCB-80	100.00	1.32e+08	0.81	y	35:56	-	1.00
197	Tetr╗	13C-PCB-81	100.00	1.09e+08	0.81	y	39:03	-	0.82
198	Tetr╗	13C-PCB-77	100.00	1.16e+08	0.80	y	39:38	-	0.87
199	Pent╗	13C-PCB-104	100.00	8.57e+07	1.62	y	32:41	-	1.06
200	Pent╗	13C-PCB-95	100.00	6.25e+07	1.56	y	35:50	-	0.78
201	Pent╗	13C-PCB-101	100.00	6.52e+07	1.58	y	37:30	-	0.81
202	Pent╗	13C-PCB-97	100.00	5.55e+07	1.65	y	38:48	-	0.69
203	Pent╗	13C-PCB-123	100.00	7.42e+07	1.57	y	41:21	-	0.92
204	Pent╗	13C-PCB-118	100.00	7.69e+07	1.66	y	41:33	-	0.95
205	Pent╗	13C-PCB-114	100.00	8.65e+07	1.61	y	42:12	-	1.20
206	Pent╗	13C-PCB-105	100.00	8.97e+07	1.59	y	43:03	-	1.24
207	Pent╗	13C-PCB-127	100.00	9.70e+07	1.57	y	43:23	-	1.34
208	Pent╗	13C-PCB-126	100.00	8.43e+07	1.60	y	45:18	-	1.17
209	Hexa╗	13C-PCB-155	100.00	7.04e+07	1.28	y	37:03	-	0.87
210	Hexa╗	13C-PCB-153	100.00	8.00e+07	1.28	y	43:13	-	1.11
211	Hexa╗	13C-PCB-141	100.00	7.84e+07	1.29	y	43:57	-	1.09
212	Hexa	13C-PCB-138	100.00	7.60e+07	1.27	y	44:48	-	1.05
213	Hexa╗	13C-PCB-159	100.00	8.60e+07	1.28	y	46:05	-	1.19
214	Hexa╗	13C-PCB-167	100.00	9.61e+07	1.31	y	46:45	-	1.33
215	Hexa╗	13C-PCB-156	100.00	9.01e+07	1.28	y	48:03	-	1.25
216	Hexa╗	13C-PCB-157	100.00	9.47e+07	1.27	y	48:19	-	1.31
217	Hexa╗	13C-PCB-169	100.00	8.76e+07	1.27	y	50:24	-	1.21
218	Hept╗	13C-PCB-188	100.00	6.71e+07	0.47	y	42:51	-	0.93
219	Hept╗	13C-PCB-180	100.00	4.84e+07	0.47	y	49:19	-	0.67
220	Hept╗	13C-PCB-170	100.00	3.88e+07	0.48	y	50:45	-	0.54
221	Hept╗	13C-PCB-189	100.00	5.08e+07	0.46	y	52:10	-	0.70
222	Octa╗	13C-PCB-202	100.00	5.96e+07	0.91	y	48:16	-	0.83

223	Octa¶	13C-PCB-194	100.00	5.30e+07	0.91	y	53:40	-	0.82
224	Nona¶	13C-PCB-208	100.00	7.41e+07	0.77	y	52:56	-	1.14
225	Nona¶	13C-PCB-206	100.00	4.24e+07	0.79	y	55:20	-	0.65
226	Deca¶	13C-PCB-209	100.00	3.91e+07	1.19	y	56:37	-	0.60
227	DI-RS	13C-PCB-15	100.00	1.66e+08	1.58	y	25:59	-	1.00
228	Tri-¶	13C-PCB-31	100.00	1.54e+08	1.06	y	29:00	-	1.00
229	Tetr¶	13C-PCB-60	100.00	1.33e+08	0.79	y	36:46	-	1.00
230	Penta	13C-PCB-111	100.00	8.06e+07	1.63	y	39:14	-	1.00
231	Hexa¶	13C-PCB-128	100.00	7.22e+07	1.30	y	46:21	-	1.00
232	Octa¶	13C-PCB-205	100.00	6.47e+07	0.91	y	53:57	-	1.00

233	CRS		13C-PCB-79	100.00	1.28e+08	0.81	y	37:49	- 0.97
234	CRS		13C-PCB-178	100.00	4.42e+07	0.46	y	45:38	- 0.61
235	PS		13C-PCB-79	100.00	1.28e+08	0.81	y	37:49	- 1.18
236	PS		13C-PCB-178	100.00	4.42e+07	0.46	y	45:38	- 0.91

Filename: 140620E1 S: 3 Acquired: 20-JUN-14 11:39:47
Run: 140620E1 Analyte: ICal: PCBVG8-6-20-14 Results:
Sample text: ST140620E1-3 PCB CS2 13H1205

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	2.50	1.09e+07	2.94 y	16:15	-	1.26
2	Mono	PCB-2	2.50	1.01e+07	3.00 y	18:37	-	1.14
3	Mono	PCB-3	2.50	1.09e+07	3.06 y	18:51	-	1.23
4	Di	PCB-4/10	10.00	3.30e+07	1.63 y	20:12	-	1.55
5	Di	PCB-7/9	10.00	4.03e+07	1.63 y	21:58	-	1.26
6	Di	PCB-6	5.00	2.02e+07	1.66 y	22:36	-	1.26
7	Di	PCB-5/8	10.00	3.95e+07	1.65 y	23:01	-	1.23
8	Di	PCB-14	5.00	2.20e+07	1.65 y	24:06	-	1.21
9	Di	PCB-11	5.00	2.10e+07	1.68 y	25:18	-	1.16
10	Di	PCB-12/13	10.00	3.98e+07	1.61 y	25:41	-	1.10
11	Di	PCB-15	5.00	2.21e+07	1.67 y	25:59	-	1.22
12	Tri	PCB-19	2.50	6.55e+06	1.07 y	24:18	-	1.26
13	Tri	PCB-30	2.50	9.41e+06	1.06 y	25:11	-	1.82
14	Tri	PCB-18	2.50	6.63e+06	1.06 y	25:55	-	0.85
15	Tri	PCB-17	2.50	6.98e+06	1.08 y	26:06	-	0.89
16	Tri	PCB-24/27	5.00	1.85e+07	1.06 y	26:40	-	1.18
17	Tri	PCB-16/32	5.00	1.59e+07	1.07 y	27:10	-	1.02
18	Tri	PCB-34	2.50	9.58e+06	1.09 y	27:57	-	1.25
19	Tri	PCB-23	2.50	1.08e+07	1.09 y	28:03	-	1.41
20	Tri	PCB-29	2.50	1.02e+07	1.10 y	28:18	-	1.32
21	Tri	PCB-26	2.50	1.02e+07	1.06 y	28:30	-	1.32
22	Tri	PCB-25	2.50	1.04e+07	1.14 y	28:40	-	1.36
23	Tri	PCB-31	2.50	1.12e+07	1.09 y	29:02	-	1.46
24	Tri	PCB-28	2.50	1.08e+07	1.11 y	29:08	-	1.41
25	Tri	PCB-20/21/33	7.50	3.04e+07	1.09 y	29:45	-	1.32
26	Tri	PCB-22	2.50	1.03e+07	1.06 y	30:11	-	1.35
27	Tri	PCB-36	2.50	1.02e+07	1.08 y	30:48	-	1.38
28	Tri	PCB-39	2.50	1.04e+07	1.08 y	31:16	-	1.41
29	Tri	PCB-38	2.50	1.00e+07	1.09 y	32:03	-	1.36
30	Tri	PCB-35	2.50	9.94e+06	1.07 y	32:33	-	1.35
31	Tri	PCB-37	2.50	1.02e+07	1.12 y	32:59	-	1.39
32	Tetra	PCB-54	2.50	7.98e+06	0.79 y	28:02	-	1.18
33	Tetra	PCB-50	2.50	6.47e+06	0.77 y	29:11	-	0.96
34	Tetra	PCB-53	2.50	6.40e+06	0.77 y	29:50	-	1.14
35	Tetra	PCB-51	2.50	6.58e+06	0.81 y	30:10	-	1.17
36	Tetra	PCB-45	2.50	5.60e+06	0.78 y	30:36	-	1.00
37	Tetra	PCB-46	2.50	5.09e+06	0.75 y	31:05	-	0.90
38	Tetra	PCB-52/69	5.00	1.50e+07	0.79 y	31:33	-	1.33
39	Tetra	PCB-73	2.50	7.36e+06	0.75 y	31:40	-	1.31
40	Tetra	PCB-43/49	5.00	1.23e+07	0.78 y	31:50	-	1.10
41	Tetra	PCB-47	2.50	6.07e+06	0.76 y	32:02	-	1.04

42	Tetra	PCB-48/75	5.00	1.55e+07	0.77	y	32:09	- 1.33
43	Tetra	PCB-65	2.50	7.45e+06	0.79	y	32:25	- 1.28
44	Tetra	PCB-62	2.50	7.60e+06	0.79	y	32:32	- 1.30
45	Tetra	PCB-44	2.50	5.73e+06	0.74	y	32:50	- 0.98
46	Tetra	PCB-42/59	5.00	1.41e+07	0.77	y	33:04	- 1.21
47	Tetra	PCB-41/64/71/72	10.00	2.98e+07	0.78	y	33:39	- 1.28
48	Tetra	PCB-68	2.50	8.64e+06	0.79	y	33:54	- 1.48
49	Tetra	PCB-40	2.50	4.77e+06	0.77	y	34:07	- 0.82
50	Tetra	PCB-57	2.50	7.93e+06	0.79	y	34:28	- 1.11
51	Tetra	PCB-67	2.50	8.04e+06	0.68	y	34:46	- 1.12
52	Tetra	PCB-58	2.50	8.03e+06	0.88	y	34:53	- 1.12

53	Tetra	PCB-63	2.50	8.15e+06	0.80 y	35:03	-	1.14
54	Tetra	PCB-74	2.50	8.76e+06	0.78 y	35:20	-	1.22
55	Tetra	PCB-61/70	5.00	1.56e+07	0.76 y	35:31	-	1.08
56	Tetra	PCB-76/66	5.00	1.60e+07	0.79 y	35:44	-	1.12
57	Tetra	PCB-80	2.50	9.48e+06	0.78 y	35:58	-	1.28
58	Tetra	PCB-55	2.50	8.11e+06	0.77 y	36:17	-	1.10
59	Tetra	PCB-56/60	5.00	1.58e+07	0.77 y	36:47	-	1.07
60	Tetra	PCB-79	2.50	8.31e+06	0.75 y	37:50	-	1.12
61	Tetra	PCB-78	2.50	7.55e+06	0.77 y	38:32	-	1.20
62	Tetra	PCB-81	2.50	8.89e+06	0.79 y	39:04	-	1.41
63	Tetra	PCB-77	2.50	8.13e+06	0.82 y	39:39	-	1.22
64	Penta	PCB-104	2.50	6.23e+06	1.51 y	32:41	-	1.28
65	Penta	PCB-96	2.50	5.23e+06	1.55 y	33:57	-	1.08
66	Penta	PCB-103	2.50	4.30e+06	1.55 y	34:29	-	0.89
67	Penta	PCB-100	2.50	4.69e+06	1.55 y	34:50	-	0.97
68	Penta	PCB-94	2.50	3.79e+06	1.67 y	35:18	-	1.11
69	Penta	PCB-95/98/102	7.50	1.21e+07	1.60 y	35:48	-	1.18
70	Penta	PCB-93	2.50	4.14e+06	1.71 y	35:56	-	1.21
71	Penta	PCB-88/91	5.00	6.98e+06	1.52 y	36:13	-	1.02
72	Penta	PCB-121	2.50	6.62e+06	1.66 y	36:18	-	1.94
73	Penta	PCB-84/92	5.00	7.58e+06	1.59 y	37:08	-	1.05
74	Penta	PCB-89	2.50	3.69e+06	1.55 y	37:20	-	1.02
75	Penta	PCB-90/101	5.00	8.58e+06	1.58 y	37:30	-	1.19
76	Penta	PCB-113	2.50	4.74e+06	1.59 y	37:45	-	1.32
77	Penta	PCB-99	2.50	4.85e+06	1.65 y	37:50	-	1.35
78	Penta	PCB-119	2.50	5.47e+06	1.52 y	38:19	-	1.72
79	Penta	PCB-108/112	5.00	8.21e+06	1.65 y	38:28	-	1.29
80	Penta	PCB-83	2.50	4.81e+06	1.57 y	38:38	-	1.51
81	Penta	PCB-97	2.50	4.05e+06	1.59 y	38:49	-	1.27
82	Penta	PCB-86	2.50	3.35e+06	1.53 y	38:57	-	1.05
83	Penta	PCB-87/117/125	7.50	1.48e+07	1.59 y	39:05	-	1.55
84	Penta	PCB-111/115	5.00	1.08e+07	1.58 y	39:14	-	1.69
85	Penta	PCB-85/116	5.00	8.48e+06	1.60 y	39:22	-	1.33
86	Penta	PCB-120	2.50	5.59e+06	1.63 y	39:37	-	1.76
87	Penta	PCB-110	2.50	5.26e+06	1.59 y	39:45	-	1.65
88	Penta	PCB-82	2.50	3.23e+06	1.69 y	40:24	-	0.73
89	Penta	PCB-124	2.50	5.89e+06	1.57 y	41:04	-	1.33
90	Penta	PCB-107/109	5.00	1.04e+07	1.65 y	41:13	-	1.18
91	Penta	PCB-123	2.50	5.43e+06	1.52 y	41:23	-	1.23
92	Penta	PCB-106/118	5.00	1.13e+07	1.59 y	41:34	-	1.25
93	Penta	PCB-114	2.50	6.81e+06	1.68 y	42:13	-	1.36
94	Penta	PCB-122	2.50	6.01e+06	1.59 y	42:21	-	1.20
95	Penta	PCB-105	2.50	6.91e+06	1.69 y	43:05	-	1.33
96	Penta	PCB-127	2.50	6.53e+06	1.64 y	43:25	-	1.14
97	Penta	PCB-126	2.50	6.39e+06	1.68 y	45:18	-	1.28
98	Hexa	PCB-155	2.50	4.51e+06	1.22 y	37:04	-	1.18
99	Hexa	PCB-150	2.50	4.00e+06	1.22 y	38:20	-	1.05
100	Hexa	PCB-152	2.50	4.04e+06	1.22 y	38:48	-	1.06
101	Hexa	PCB-145	2.50	4.00e+06	1.28 y	39:14	-	1.05
102	Hexa	PCB-136	2.50	4.13e+06	1.32 y	39:34	-	1.08

103	Hexa	PCB-148	2.50	2.58e-06	1.36 y	39:41	-	0.68
104	Hexa	PCB-154	2.50	3.37e+06	1.28 y	40:09	-	0.88
105	Hexa	PCB-151	2.50	2.97e+06	1.35 y	40:48	-	0.78
106	Hexa	PCB-135	2.50	2.92e+06	1.29 y	41:00	-	0.76
107	Hexa	PCB-144	2.50	2.97e+06	1.28 y	41:07	-	0.78
108	Hexa	PCB-147	2.50	2.99e+06	1.23 y	41:15	-	0.78
109	Hexa	PCB-139/149	5.00	6.36e+06	1.23 y	41:31	-	0.83
110	Hexa	PCB-140	2.50	2.90e+06	1.28 y	41:42	-	0.76
111	Hexa	PCB-134/143	5.00	8.39e+06	1.23 y	42:08	-	0.90
112	Hexa	PCB-133/142	5.00	8.52e+06	1.22 y	42:26	-	0.91
113	Hexa	PCB-131	2.50	4.20e+06	1.24 y	42:36	-	0.90

114	Hexa	PCB-146/165	5.00	1.07e+07	1.23 y	42:49	-	1.14
115	Hexa	PCB-132/161	5.00	1.02e+07	1.22 y	43:04	-	1.09
116	Hexa	PCB-153	2.50	5.91e+06	1.25 y	43:13	-	1.26
117	Hexa	PCB-168	2.50	6.38e+06	1.17 y	43:26	-	1.37
118	Hexa	PCB-141	2.50	4.37e+06	1.21 y	43:58	-	0.97
119	Hexa	PCB-137	2.50	4.74e+06	1.24 y	44:21	-	1.05
120	Hexa	PCB-130	2.50	3.95e+06	1.26 y	44:27	-	0.87
121	Hexa	PCB-138/163/164	7.50	1.61e+07	1.23 y	44:50	-	1.22
122	Hexa	PCB-158/160	5.00	1.14e+07	1.26 y	45:04	-	1.29
123	Hexa	PCB-129	2.50	4.07e+06	1.27 y	45:19	-	0.93
124	Hexa	PCB-166	2.50	5.65e+06	1.19 y	45:46	-	1.11
125	Hexa	PCB-159	2.50	5.99e+06	1.25 y	46:05	-	1.18
126	Hexa	PCB-128/162	5.00	1.06e+07	1.20 y	46:23	-	1.04
127	Hexa	PCB-167	2.50	6.20e+06	1.24 y	46:46	-	1.10
128	Hexa	PCB-156	2.50	6.26e+06	1.23 y	48:04	-	1.18
129	Hexa	PCB-157	2.50	6.28e+06	1.27 y	48:20	-	1.13
130	Hexa	PCB-169	2.50	5.82e+06	1.20 y	50:24	-	1.12
131	Hepta	PCB-188	2.50	5.50e+06	1.08 y	42:52	-	1.43
132	Hepta	PCB-184	2.50	4.81e+06	1.08 y	43:19	-	1.25
133	Hepta	PCB-179	2.50	5.06e+06	1.03 y	44:06	-	1.32
134	Hepta	PCB-176	2.50	5.19e+06	1.06 y	44:34	-	1.35
135	Hepta	PCB-186	2.50	4.80e+06	1.01 y	45:11	-	1.25
136	Hepta	PCB-178	2.50	3.68e+06	1.04 y	45:40	-	0.96
137	Hepta	PCB-175	2.50	3.76e+06	1.07 y	46:00	-	0.98
138	Hepta	PCB-182/187	5.00	7.80e+06	1.03 y	46:11	-	1.01
139	Hepta	PCB-183	2.50	4.14e+06	1.08 y	46:30	-	1.08
140	Hepta	PCB-185	2.50	3.61e+06	1.06 y	47:09	-	1.30
141	Hepta	PCB-174	2.50	3.80e+06	1.05 y	47:31	-	1.36
142	Hepta	PCB-181	2.50	3.56e+06	1.02 y	47:38	-	1.28
143	Hepta	PCB-177	2.50	3.33e+06	1.02 y	47:47	-	1.20
144	Hepta	PCB-171	2.50	3.72e+06	1.05 y	48:04	-	1.34
145	Hepta	PCB-173	2.50	3.21e+06	1.03 y	48:31	-	1.15
146	Hepta	PCB-172	2.50	3.40e+06	1.05 y	48:57	-	1.22
147	Hepta	PCB-192	2.50	4.16e+06	1.05 y	49:09	-	1.49
148	Hepta	PCB-180	2.50	4.01e+06	1.10 y	49:21	-	1.44
149	Hepta	PCB-193	2.50	4.60e+06	1.04 y	49:32	-	1.65
150	Hepta	PCB-191	2.50	4.58e+06	1.05 y	49:46	-	1.65
151	Hepta	PCB-170	2.50	3.36e+06	1.02 y	50:45	-	1.51
152	Hepta	PCB-190	2.50	4.37e+06	1.06 y	50:55	-	1.97
153	Hepta	PCB-189	2.50	4.66e+06	1.06 y	52:12	-	1.55
154	Octa	PCB-202	2.50	3.48e+06	0.98 y	48:17	-	1.01
155	Octa	PCB-201	2.50	3.65e+06	0.94 y	48:46	-	1.06
156	Octa	PCB-204	2.50	3.41e+06	0.91 y	48:55	-	0.99
157	Octa	PCB-197	2.50	3.58e+06	0.96 y	49:14	-	1.04
158	Octa	PCB-200	2.50	3.52e+06	0.95 y	50:03	-	1.02
159	Octa	PCB-198	2.50	2.39e+06	0.96 y	51:19	-	0.69
160	Octa	PCB-199	2.50	2.50e+06	0.94 y	51:25	-	0.73
161	Octa	PCB-196/203	5.00	5.16e+06	0.89 y	51:41	-	0.75
162	Octa	PCB-195	2.50	3.62e+06	0.88 y	52:48	-	1.17
163	Octa	PCB-194	2.50	3.77e+06	0.94 y	53:40	-	1.22

164	Octa	PCB-205	2.50	4.34e+06	0.90	y	53:57	-	1.41
165	Nona	PCB-208	2.50	3.94e+06	1.36	y	52:56	-	0.93
166	Nona	PCB-207	2.50	3.87e+06	1.29	y	53:15	-	0.91
167	Nona	PCB-206	2.50	2.57e+06	1.40	y	55:20	-	1.03
168	Deca	PCB-209	2.50	2.82e+06	1.17	y	56:37	-	1.21
169	Tot ╗	Total Mono-PCB	0.00	-	-	n	-	-	1.21
170	Tot ╗	Total Di-PCB	0.00	-	-	n	-	-	1.21
171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.15

172	Tot ╕	Total Tri-PCB	0.00	-	-	n	-	-	1.36
173	Tot ╕	Total Tetra-PCB	0.00	-	-	n	-	-	1.17
174	Tot ╕	Total Penta-PCB	0.00	-	-	n	-	-	1.21
175	Tot ╕	Total Penta-PCB	0.00	-	-	n	-	-	1.26
176	Tot ╕	Total Hexa-PCB	0.00	-	-	n	-	-	0.89
177	Tot ╕	Total Hexa-PCB	0.00	-	-	n	-	-	1.08
178	Tot ╕	Total Hepta-PCB	0.00	-	-	n	-	-	1.27
179	Tot ╕	Total Octa-PCB	0.00	-	-	n	-	-	0.89
180	Tot ╕	Total Octa-PCB	0.00	-	-	n	-	-	1.26
181	Tot ╕	Total Nona-PCB	0.00	-	-	n	-	-	0.94
182	Tot ╕	Total Deca-PCB	2.50	2.82e+06	1.17	y	56:37	-	1.21
183	Mono╕	13C-PCB-1	100.00	3.46e+08	3.25	y	16:14	-	0.91
184	Mono╕	13C-PCB-3	100.00	3.56e+08	3.24	y	18:50	-	0.94
185	Di-IS	13C-PCB-4	100.00	2.13e+08	1.57	y	20:09	-	0.56
186	Di-IS	13C-PCB-9	100.00	3.20e+08	1.57	y	21:55	-	0.84
187	Di-IS	13C-PCB-11	100.00	3.64e+08	1.57	y	25:16	-	0.96
188	Tri-╕	13C-PCB-19	100.00	2.07e+08	1.06	y	24:16	-	0.55
189	Tri-╕	13C-PCB-32	100.00	3.14e+08	1.08	y	27:10	-	0.83
190	Tri-╕	13C-PCB-28	100.00	3.07e+08	1.06	y	29:07	-	0.83
191	Tri-╕	13C-PCB-37	100.00	2.95e+08	1.07	y	32:58	-	0.80
192	Tetr╕	13C-PCB-54	100.00	2.71e+08	0.81	y	28:00	-	0.91
193	Tetr╕	13C-PCB-52	100.00	2.25e+08	0.80	y	31:31	-	0.75
194	Tetr╕	13C-PCB-47	100.00	2.33e+08	0.79	y	32:01	-	0.78
195	Tetr╕	13C-PCB-70	100.00	2.87e+08	0.80	y	35:32	-	0.96
196	Tetr╕	13C-PCB-80	100.00	2.96e+08	0.81	y	35:56	-	0.99
197	Tetr╕	13C-PCB-81	100.00	2.52e+08	0.80	y	39:03	-	0.84
198	Tetr╕	13C-PCB-77	100.00	2.67e+08	0.80	y	39:38	-	0.90
199	Pent╕	13C-PCB-104	100.00	1.94e+08	1.60	y	32:40	-	1.07
200	Pent╕	13C-PCB-95	100.00	1.37e+08	1.60	y	35:50	-	0.75
201	Pent╕	13C-PCB-101	100.00	1.44e+08	1.61	y	37:30	-	0.79
202	Pent╕	13C-PCB-97	100.00	1.27e+08	1.61	y	38:48	-	0.70
203	Pent╕	13C-PCB-123	100.00	1.77e+08	1.58	y	41:22	-	0.98
204	Pent╕	13C-PCB-118	100.00	1.80e+08	1.61	y	41:33	-	0.99
205	Pent╕	13C-PCB-114	100.00	2.01e+08	1.59	y	42:12	-	1.21
206	Pent╕	13C-PCB-105	100.00	2.08e+08	1.59	y	43:04	-	1.25
207	Pent╕	13C-PCB-127	100.00	2.30e+08	1.60	y	43:23	-	1.38
208	Pent╕	13C-PCB-126	100.00	2.00e+08	1.58	y	45:18	-	1.20
209	Hexa╕	13C-PCB-155	100.00	1.53e+08	1.28	y	37:03	-	0.84
210	Hexa╕	13C-PCB-153	100.00	1.87e+08	1.28	y	43:13	-	1.13
211	Hexa╕	13C-PCB-141	100.00	1.81e+08	1.27	y	43:57	-	1.09
212	Hexa	13C-PCB-138	100.00	1.75e+08	1.26	y	44:48	-	1.06
213	Hexa╕	13C-PCB-159	100.00	2.03e+08	1.26	y	46:04	-	1.22
214	Hexa╕	13C-PCB-167	100.00	2.26e+08	1.29	y	46:46	-	1.36
215	Hexa╕	13C-PCB-156	100.00	2.13e+08	1.27	y	48:03	-	1.28
216	Hexa╕	13C-PCB-157	100.00	2.22e+08	1.29	y	48:20	-	1.34
217	Hexa╕	13C-PCB-169	100.00	2.08e+08	1.29	y	50:23	-	1.25
218	Hept╕	13C-PCB-188	100.00	1.54e+08	0.47	y	42:51	-	0.93
219	Hept╕	13C-PCB-180	100.00	1.11e+08	0.47	y	49:20	-	0.67
220	Hept╕	13C-PCB-170	100.00	8.90e+07	0.47	y	50:44	-	0.54
221	Hept╕	13C-PCB-189	100.00	1.21e+08	0.46	y	52:11	-	0.73
222	Octa╕	13C-PCB-202	100.00	1.38e+08	0.91	y	48:16	-	0.83

223	Octa╗	13C-PCB-194	100.00	1.24e+08	0.92 y	53:39	-	0.82
224	Nona╗	13C-PCB-208	100.00	1.70e+08	0.78 y	52:56	-	1.13
225	Nona╗	13C-PCB-206	100.00	1.00e+08	0.81 y	55:19	-	0.66
226	Deca╗	13C-PCB-209	100.00	9.32e+07	1.21 y	56:36	-	0.62
227	DI-RS	13C-PCB-15	100.00	3.79e+08	1.56 y	25:59	-	1.00
228	Tri-╗	13C-PCB-31	100.00	3.70e+08	1.06 y	29:01	-	1.00
229	Tetr╗	13C-PCB-60	100.00	2.98e+08	0.79 y	36:46	-	1.00
230	Penta	13C-PCB-111	100.00	1.81e+08	1.61 y	39:13	-	1.00
231	Hexa╗	13C-PCB-128	100.00	1.66e+08	1.28 y	46:22	-	1.00
232	Octa╗	13C-PCB-205	100.00	1.51e+08	0.90 y	53:56	-	1.00

233	CRS		13C-PCB-79	100.00	2.94e+08	0.79	y	37:49	- 0.99
234	CRS		13C-PCB-178	100.00	1.02e+08	0.47	y	45:38	- 0.62
235	PS		13C-PCB-79	100.00	2.94e+08	0.79	y	37:49	- 1.17
236	PS		13C-PCB-178	100.00	1.02e+08	0.47	y	45:38	- 0.92

Filename: 140620E1 S: 4 Acquired: 20-JUN-14 12:43:46
Run: 140620E1 Analyte: ICal: PCBVG8-6-20-14 Results:
Sample text: ST140620E1-4 PCB CS3 14F1901

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	50.00	7.81e+07	2.96 y	16:15	-	1.31
2	Mono	PCB-2	50.00	7.76e+07	2.98 y	18:36	-	1.24
3	Mono	PCB-3	50.00	7.92e+07	2.99 y	18:50	-	1.26
4	Di	PCB-4/10	200.00	2.38e+08	1.63 y	20:12	-	1.61
5	Di	PCB-7/9	200.00	2.89e+08	1.64 y	21:57	-	1.30
6	Di	PCB-6	100.00	1.40e+08	1.64 y	22:36	-	1.26
7	Di	PCB-5/8	200.00	2.85e+08	1.64 y	23:01	-	1.28
8	Di	PCB-14	100.00	1.58e+08	1.64 y	24:06	-	1.27
9	Di	PCB-11	100.00	1.47e+08	1.66 y	25:17	-	1.18
10	Di	PCB-12/13	200.00	2.83e+08	1.65 y	25:41	-	1.14
11	Di	PCB-15	100.00	1.54e+08	1.67 y	26:00	-	1.24
12	Tri	PCB-19	50.00	4.61e+07	1.05 y	24:17	-	1.28
13	Tri	PCB-30	50.00	6.74e+07	1.06 y	25:10	-	1.87
14	Tri	PCB-18	50.00	4.73e+07	1.06 y	25:55	-	0.87
15	Tri	PCB-17	50.00	4.99e+07	1.05 y	26:05	-	0.92
16	Tri	PCB-24/27	100.00	1.33e+08	1.06 y	26:40	-	1.22
17	Tri	PCB-16/32	100.00	1.13e+08	1.05 y	27:10	-	1.03
18	Tri	PCB-34	50.00	6.57e+07	1.09 y	27:57	-	1.23
19	Tri	PCB-23	50.00	7.68e+07	1.09 y	28:02	-	1.44
20	Tri	PCB-29	50.00	7.27e+07	1.09 y	28:18	-	1.36
21	Tri	PCB-26	50.00	7.01e+07	1.08 y	28:30	-	1.31
22	Tri	PCB-25	50.00	7.40e+07	1.09 y	28:40	-	1.38
23	Tri	PCB-31	50.00	7.56e+07	1.08 y	29:02	-	1.41
24	Tri	PCB-28	50.00	7.73e+07	1.11 y	29:07	-	1.45
25	Tri	PCB-20/21/33	150.00	2.14e+08	1.09 y	29:45	-	1.34
26	Tri	PCB-22	50.00	7.44e+07	1.09 y	30:11	-	1.39
27	Tri	PCB-36	50.00	7.19e+07	1.09 y	30:47	-	1.43
28	Tri	PCB-39	50.00	7.33e+07	1.08 y	31:16	-	1.46
29	Tri	PCB-38	50.00	7.08e+07	1.08 y	32:02	-	1.41
30	Tri	PCB-35	50.00	7.21e+07	1.11 y	32:33	-	1.44
31	Tri	PCB-37	50.00	7.05e+07	1.09 y	32:59	-	1.41
32	Tetra	PCB-54	50.00	5.75e+07	0.77 y	28:01	-	1.24
33	Tetra	PCB-50	50.00	4.62e+07	0.77 y	29:11	-	0.99
34	Tetra	PCB-53	50.00	4.60e+07	0.78 y	29:49	-	1.19
35	Tetra	PCB-51	50.00	4.72e+07	0.78 y	30:10	-	1.23
36	Tetra	PCB-45	50.00	3.93e+07	0.78 y	30:36	-	1.02
37	Tetra	PCB-46	50.00	3.68e+07	0.76 y	31:04	-	0.95
38	Tetra	PCB-52/69	100.00	1.04e+08	0.77 y	31:33	-	1.35
39	Tetra	PCB-73	50.00	5.52e+07	0.77 y	31:39	-	1.43
40	Tetra	PCB-43/49	100.00	8.70e+07	0.78 y	31:50	-	1.13
41	Tetra	PCB-47	50.00	4.87e+07	0.76 y	32:02	-	1.20

42	Tetra	PCB-48/75	100.00	1.06e-08	0.78 y	32:09	-	1.31
43	Tetra	PCB-65	50.00	5.35e-07	0.77 y	32:25	-	1.32
44	Tetra	PCB-62	50.00	5.60e+07	0.77 y	32:32	-	1.38
45	Tetra	PCB-44	50.00	3.98e+07	0.78 y	32:49	-	0.98
46	Tetra	PCB-42/59	100.00	1.02e+08	0.77 y	33:02	-	1.26
47	Tetra	PCB-41/64/71/72	200.00	2.19e+08	0.78 y	33:38	-	1.35
48	Tetra	PCB-68	50.00	6.14e+07	0.78 y	33:54	-	1.51
49	Tetra	PCB-40	50.00	3.36e+07	0.77 y	34:06	-	0.83
50	Tetra	PCB-57	50.00	5.91e+07	0.77 y	34:28	-	1.15
51	Tetra	PCB-67	50.00	5.87e+07	0.78 y	34:46	-	1.15
52	Tetra	PCB-58	50.00	5.57e+07	0.78 y	34:53	-	1.09

53	Tetra	PCB-63	50.00	5.92e+07	0.76	y	35:03	- 1.16
54	Tetra	PCB-74	50.00	6.39e+07	0.77	y	35:20	- 1.25
55	Tetra	PCB-61/70	100.00	1.13e+08	0.78	y	35:30	- 1.10
56	Tetra	PCB-76/66	100.00	1.20e+08	0.77	y	35:43	- 1.17
57	Tetra	PCB-80	50.00	6.75e+07	0.78	y	35:56	- 1.28
58	Tetra	PCB-55	50.00	6.01e+07	0.77	y	36:17	- 1.14
59	Tetra	PCB-56/60	100.00	1.15e+08	0.77	y	36:46	- 1.09
60	Tetra	PCB-79	50.00	6.07e+07	0.78	y	37:50	- 1.15
61	Tetra	PCB-78	50.00	5.78e+07	0.78	y	38:32	- 1.27
62	Tetra	PCB-81	50.00	6.42e+07	0.78	y	39:03	- 1.41
63	Tetra	PCB-77	50.00	6.12e+07	0.79	y	39:39	- 1.25
64	Penta	PCB-104	50.00	4.42e+07	1.62	y	32:41	- 1.27
65	Penta	PCB-96	50.00	3.85e+07	1.59	y	33:57	- 1.10
66	Penta	PCB-103	50.00	3.30e+07	1.58	y	34:29	- 0.95
67	Penta	PCB-100	50.00	3.53e+07	1.61	y	34:49	- 1.01
68	Penta	PCB-94	50.00	2.93e+07	1.58	y	35:18	- 1.13
69	Penta	PCB-95/98/102	150.00	1.01e+08	1.60	y	35:47	- 1.30
70	Penta	PCB-93	50.00	2.46e+07	1.63	y	35:56	- 0.95
71	Penta	PCB-88/91	100.00	5.97e+07	1.61	y	36:12	- 1.15
72	Penta	PCB-121	50.00	4.37e+07	1.56	y	36:19	- 1.69
73	Penta	PCB-84/92	100.00	5.90e+07	1.59	y	37:08	- 1.09
74	Penta	PCB-89	50.00	2.93e+07	1.61	y	37:19	- 1.08
75	Penta	PCB-90/101	100.00	6.59e+07	1.60	y	37:31	- 1.21
76	Penta	PCB-113	50.00	4.09e+07	1.59	y	37:45	- 1.51
77	Penta	PCB-99	50.00	3.25e+07	1.60	y	37:51	- 1.20
78	Penta	PCB-119	50.00	4.22e+07	1.61	y	38:18	- 1.73
79	Penta	PCB-108/112	100.00	6.46e+07	1.63	y	38:27	- 1.33
80	Penta	PCB-83	50.00	3.86e+07	1.62	y	38:38	- 1.58
81	Penta	PCB-97	50.00	3.20e+07	1.59	y	38:49	- 1.32
82	Penta	PCB-86	50.00	2.38e+07	1.53	y	38:58	- 0.98
83	Penta	PCB-87/117/125	150.00	1.16e+08	1.58	y	39:05	- 1.59
84	Penta	PCB-111/115	100.00	8.59e+07	1.72	y	39:15	- 1.76
85	Penta	PCB-85/116	100.00	6.54e+07	1.46	y	39:23	- 1.34
86	Penta	PCB-120	50.00	4.27e+07	1.57	y	39:37	- 1.75
87	Penta	PCB-110	50.00	4.19e+07	1.60	y	39:46	- 1.72
88	Penta	PCB-82	50.00	2.58e+07	1.60	y	40:23	- 0.73
89	Penta	PCB-124	50.00	4.68e+07	1.60	y	41:03	- 1.32
90	Penta	PCB-107/109	100.00	8.79e+07	1.59	y	41:12	- 1.24
91	Penta	PCB-123	50.00	4.52e+07	1.59	y	41:22	- 1.28
92	Penta	PCB-106/118	100.00	9.20e+07	1.60	y	41:35	- 1.26
93	Penta	PCB-114	50.00	5.39e+07	1.62	y	42:13	- 1.37
94	Penta	PCB-122	50.00	4.95e+07	1.62	y	42:21	- 1.25
95	Penta	PCB-105	50.00	5.39e+07	1.63	y	43:05	- 1.34
96	Penta	PCB-127	50.00	5.03e+07	1.65	y	43:24	- 1.16
97	Penta	PCB-126	50.00	4.94e+07	1.62	y	45:19	- 1.32
98	Hexa	PCB-155	50.00	3.50e+07	1.27	y	37:03	- 1.20
99	Hexa	PCB-150	50.00	3.24e+07	1.28	y	38:20	- 1.11
100	Hexa	PCB-152	50.00	3.29e+07	1.26	y	38:48	- 1.12
101	Hexa	PCB-145	50.00	3.24e+07	1.26	y	39:15	- 1.11
102	Hexa	PCB-136	50.00	3.34e+07	1.27	y	39:35	- 1.14

103	Hexa	PCB-148	50.00	2.20e-07	1.30 y	39:40	-	0.75
104	Hexa	PCB-154	50.00	2.71e+07	1.26 y	40:10	-	0.93
105	Hexa	PCB-151	50.00	2.51e+07	1.30 y	40:47	-	0.86
106	Hexa	PCB-135	50.00	2.36e+07	1.28 y	41:01	-	0.81
107	Hexa	PCB-144	50.00	2.64e+07	1.36 y	41:08	-	0.90
108	Hexa	PCB-147	50.00	2.56e+07	1.18 y	41:16	-	0.88
109	Hexa	PCB-139/149	100.00	5.31e+07	1.27 y	41:30	-	0.91
110	Hexa	PCB-140	50.00	2.51e+07	1.27 y	41:42	-	0.86
111	Hexa	PCB-134/143	100.00	6.92e+07	1.24 y	42:08	-	0.94
112	Hexa	PCB-133/142	100.00	7.07e+07	1.23 y	42:26	-	0.96
113	Hexa	PCB-131	50.00	3.31e+07	1.22 y	42:36	-	0.90

114	Hexa	PCB-146/165	100.00	8.55e+07	1.24	y	42:48	- 1.16
115	Hexa	PCB-132/161	100.00	8.32e+07	1.22	y	43:03	- 1.13
116	Hexa	PCB-153	50.00	4.33e+07	1.22	y	43:14	- 1.18
117	Hexa	PCB-168	50.00	5.02e+07	1.21	y	43:27	- 1.37
118	Hexa	PCB-141	50.00	3.51e+07	1.21	y	43:58	- 0.99
119	Hexa	PCB-137	50.00	3.65e+07	1.26	y	44:21	- 1.03
120	Hexa	PCB-130	50.00	3.32e+07	1.23	y	44:27	- 0.94
121	Hexa	PCB-138/163/164	150.00	1.29e+08	1.23	y	44:50	- 1.26
122	Hexa	PCB-158/160	100.00	9.17e+07	1.23	y	45:05	- 1.34
123	Hexa	PCB-129	50.00	3.18e+07	1.24	y	45:19	- 0.93
124	Hexa	PCB-166	50.00	4.43e+07	1.22	y	45:46	- 1.13
125	Hexa	PCB-159	50.00	4.56e+07	1.22	y	46:05	- 1.17
126	Hexa	PCB-128/162	100.00	8.34e+07	1.23	y	46:22	- 1.07
127	Hexa	PCB-167	50.00	4.70e+07	1.21	y	46:47	- 1.09
128	Hexa	PCB-156	50.00	4.75e+07	1.22	y	48:04	- 1.17
129	Hexa	PCB-157	50.00	4.75e+07	1.22	y	48:20	- 1.11
130	Hexa	PCB-169	50.00	4.39e+07	1.23	y	50:24	- 1.11
131	Hepta	PCB-188	50.00	4.42e+07	1.02	y	42:52	- 1.43
132	Hepta	PCB-184	50.00	3.95e+07	1.05	y	43:18	- 1.28
133	Hepta	PCB-179	50.00	4.06e+07	1.05	y	44:06	- 1.31
134	Hepta	PCB-176	50.00	4.27e+07	1.05	y	44:34	- 1.38
135	Hepta	PCB-186	50.00	4.05e+07	1.04	y	45:10	- 1.31
136	Hepta	PCB-178	50.00	2.95e+07	1.05	y	45:39	- 0.96
137	Hepta	PCB-175	50.00	3.17e+07	1.05	y	46:00	- 1.02
138	Hepta	PCB-182/187	100.00	6.54e+07	1.04	y	46:11	- 1.06
139	Hepta	PCB-183	50.00	3.41e+07	1.05	y	46:29	- 1.10
140	Hepta	PCB-185	50.00	3.05e+07	1.05	y	47:09	- 1.36
141	Hepta	PCB-174	50.00	2.96e+07	1.04	y	47:31	- 1.32
142	Hepta	PCB-181	50.00	3.21e+07	1.07	y	47:37	- 1.43
143	Hepta	PCB-177	50.00	2.87e+07	1.06	y	47:48	- 1.28
144	Hepta	PCB-171	50.00	2.95e+07	1.04	y	48:05	- 1.31
145	Hepta	PCB-173	50.00	2.63e+07	1.05	y	48:31	- 1.17
146	Hepta	PCB-172	50.00	2.77e+07	1.03	y	48:57	- 1.24
147	Hepta	PCB-192	50.00	3.49e+07	1.05	y	49:09	- 1.56
148	Hepta	PCB-180	50.00	3.18e+07	1.04	y	49:20	- 1.42
149	Hepta	PCB-193	50.00	3.77e+07	1.05	y	49:32	- 1.68
150	Hepta	PCB-191	50.00	3.78e+07	1.05	y	49:47	- 1.68
151	Hepta	PCB-170	50.00	2.67e+07	1.04	y	50:46	- 1.50
152	Hepta	PCB-190	50.00	3.64e+07	1.03	y	50:55	- 2.04
153	Hepta	PCB-189	50.00	3.89e+07	1.04	y	52:12	- 1.59
154	Octa	PCB-202	50.00	2.93e+07	0.91	y	48:17	- 1.04
155	Octa	PCB-201	50.00	3.13e+07	0.93	y	48:46	- 1.11
156	Octa	PCB-204	50.00	2.91e+07	0.88	y	48:56	- 1.04
157	Octa	PCB-197	50.00	3.14e+07	0.91	y	49:13	- 1.12
158	Octa	PCB-200	50.00	3.00e+07	0.91	y	50:03	- 1.07
159	Octa	PCB-198	50.00	2.15e+07	0.90	y	51:20	- 0.77
160	Octa	PCB-199	50.00	2.15e+07	0.89	y	51:25	- 0.77
161	Octa	PCB-196/203	100.00	4.56e+07	0.90	y	51:41	- 0.81
162	Octa	PCB-195	50.00	2.93e+07	0.91	y	52:49	- 1.25
163	Octa	PCB-194	50.00	2.92e+07	0.90	y	53:41	- 1.24

164	Octa	PCB-205	50.00	3.30e+07	0.92	y	53:58	-	1.41
165	Nona	PCB-208	50.00	3.17e+07	1.33	y	52:57	-	0.95
166	Nona	PCB-207	50.00	3.11e+07	1.32	y	53:16	-	0.93
167	Nona	PCB-206	50.00	2.08e+07	1.33	y	55:21	-	1.02
168	Deca	PCB-209	50.00	2.28e+07	1.19	y	56:38	-	1.23
169	Tot ╗	Total Mono-PCB	0.00	-	-	n	-	-	1.27
170	Tot ╗	Total Di-PCB	0.00	-	-	n	-	-	1.25
171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.18

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.39
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.21
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.24
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.29
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.96
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.10
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.30
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.95
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.30
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	0.96
182	Tot ╗	Total Deca-PCB	50.00	2.28e+07	1.19	y	56:38	-	1.23
183	Mono╗	13C-PCB-1	100.00	1.19e+08	3.24	y	16:14	-	0.88
184	Mono╗	13C-PCB-3	100.00	1.26e+08	3.30	y	18:49	-	0.93
185	Di-IS	13C-PCB-4	100.00	7.38e+07	1.60	y	20:09	-	0.55
186	Di-IS	13C-PCB-9	100.00	1.12e+08	1.59	y	21:55	-	0.82
187	Di-IS	13C-PCB-11	100.00	1.24e+08	1.58	y	25:16	-	0.92
188	Tri-╗	13C-PCB-19	100.00	7.23e+07	1.06	y	24:16	-	0.53
189	Tri-╗	13C-PCB-32	100.00	1.09e+08	1.07	y	27:10	-	0.81
190	Tri-╗	13C-PCB-28	100.00	1.07e+08	1.05	y	29:07	-	0.85
191	Tri-╗	13C-PCB-37	100.00	1.00e+08	1.07	y	32:59	-	0.80
192	Tetr╗	13C-PCB-54	100.00	9.29e+07	0.81	y	28:00	-	0.84
193	Tetr╗	13C-PCB-52	100.00	7.70e+07	0.79	y	31:30	-	0.70
194	Tetr╗	13C-PCB-47	100.00	8.12e+07	0.80	y	32:01	-	0.73
195	Tetr╗	13C-PCB-70	100.00	1.02e+08	0.79	y	35:31	-	0.93
196	Tetr╗	13C-PCB-80	100.00	1.05e+08	0.80	y	35:56	-	0.95
197	Tetr╗	13C-PCB-81	100.00	9.11e+07	0.80	y	39:03	-	0.82
198	Tetr╗	13C-PCB-77	100.00	9.78e+07	0.81	y	39:38	-	0.88
199	Pent╗	13C-PCB-104	100.00	6.97e+07	1.58	y	32:40	-	0.98
200	Pent╗	13C-PCB-95	100.00	5.18e+07	1.63	y	35:49	-	0.73
201	Pent╗	13C-PCB-101	100.00	5.42e+07	1.60	y	37:30	-	0.77
202	Pent╗	13C-PCB-97	100.00	4.87e+07	1.60	y	38:48	-	0.69
203	Pent╗	13C-PCB-123	100.00	7.09e+07	1.58	y	41:21	-	1.00
204	Pent╗	13C-PCB-118	100.00	7.31e+07	1.59	y	41:32	-	1.03
205	Pent╗	13C-PCB-114	100.00	7.90e+07	1.61	y	42:12	-	1.18
206	Pent╗	13C-PCB-105	100.00	8.02e+07	1.61	y	43:03	-	1.20
207	Pent╗	13C-PCB-127	100.00	8.65e+07	1.59	y	43:23	-	1.29
208	Pent╗	13C-PCB-126	100.00	7.48e+07	1.61	y	45:18	-	1.12
209	Hexa╗	13C-PCB-155	100.00	5.86e+07	1.27	y	37:02	-	0.83
210	Hexa╗	13C-PCB-153	100.00	7.35e+07	1.25	y	43:13	-	1.10
211	Hexa╗	13C-PCB-141	100.00	7.09e+07	1.28	y	43:57	-	1.06
212	Hexa	13C-PCB-138	100.00	6.83e+07	1.26	y	44:48	-	1.02
213	Hexa╗	13C-PCB-159	100.00	7.82e+07	1.30	y	46:05	-	1.17
214	Hexa╗	13C-PCB-167	100.00	8.59e+07	1.26	y	46:45	-	1.29
215	Hexa╗	13C-PCB-156	100.00	8.11e+07	1.27	y	48:03	-	1.21
216	Hexa╗	13C-PCB-157	100.00	8.59e+07	1.29	y	48:19	-	1.28
217	Hexa╗	13C-PCB-169	100.00	7.93e+07	1.27	y	50:24	-	1.19
218	Hept╗	13C-PCB-188	100.00	6.19e+07	0.46	y	42:51	-	0.93
219	Hept╗	13C-PCB-180	100.00	4.49e+07	0.47	y	49:19	-	0.67
220	Hept╗	13C-PCB-170	100.00	3.58e+07	0.45	y	50:45	-	0.53
221	Hept╗	13C-PCB-189	100.00	4.91e+07	0.46	y	52:11	-	0.73
222	Octa╗	13C-PCB-202	100.00	5.62e+07	0.92	y	48:16	-	0.84

223	Octa╗	13C-PCB-194	100.00	4.69e+07	0.91 y	53:40	-	0.80
224	Nona╗	13C-PCB-208	100.00	6.66e+07	0.78 y	52:56	-	1.14
225	Nona╗	13C-PCB-206	100.00	4.07e+07	0.77 y	55:20	-	0.70
226	Deca╗	13C-PCB-209	100.00	3.70e+07	1.21 y	56:37	-	0.64
227	DI-RS	13C-PCB-15	100.00	1.35e+08	1.56 y	25:58	-	1.00
228	Tri-╗	13C-PCB-31	100.00	1.25e+08	1.06 y	29:00	-	1.00
229	Tetr╗	13C-PCB-60	100.00	1.11e+08	0.80 y	36:46	-	1.00
230	Penta	13C-PCB-111	100.00	7.09e+07	1.59 y	39:14	-	1.00
231	Hexa╗	13C-PCB-128	100.00	6.69e+07	1.26 y	46:21	-	1.00
232	Octa╗	13C-PCB-205	100.00	5.82e+07	0.91 y	53:57	-	1.00

233	CRS		13C-PCB-79	100.00	1.21e+08	0.80	y	37:49	- 1.09
234	CRS		13C-PCB-178	100.00	4.58e+07	0.46	y	45:38	- 0.69
235	PS		13C-PCB-79	100.00	1.21e+08	0.80	y	37:49	- 1.33
236	PS		13C-PCB-178	100.00	4.58e+07	0.46	y	45:38	- 1.02

Filename: 140620E1 S: 5 Acquired: 20-JUN-14 13:47:50
Run: 140620E1 Analyte: ICal: PCBVG8-6-20-14 Results:
Sample text: ST140620E1-5 PCB CS4 13H1206

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	400.00	6.95e+08	2.97 y	16:15	-	1.05
2	Mono	PCB-2	400.00	6.84e+08	2.99 y	18:36	-	1.00
3	Mono	PCB-3	400.00	7.00e+08	3.00 y	18:50	-	1.02
4	Di	PCB-4/10	1600.00	2.12e+09	1.63 y	20:12	-	1.32
5	Di	PCB-7/9	1600.00	2.61e+09	1.63 y	21:57	-	1.08
6	Di	PCB-6	800.00	1.28e+09	1.64 y	22:36	-	1.06
7	Di	PCB-5/8	1600.00	2.62e+09	1.64 y	23:01	-	1.08
8	Di	PCB-14	800.00	1.44e+09	1.64 y	24:06	-	1.03
9	Di	PCB-11	800.00	1.36e+09	1.65 y	25:17	-	0.97
10	Di	PCB-12/13	1600.00	2.65e+09	1.64 y	25:41	-	0.94
11	Di	PCB-15	800.00	1.43e+09	1.63 y	26:00	-	1.02
12	Tri	PCB-19	400.00	4.09e+08	1.05 y	24:17	-	1.05
13	Tri	PCB-30	400.00	5.99e+08	1.06 y	25:10	-	1.54
14	Tri	PCB-18	400.00	4.25e+08	1.06 y	25:55	-	0.70
15	Tri	PCB-17	400.00	4.49e+08	1.05 y	26:05	-	0.74
16	Tri	PCB-24/27	800.00	1.19e+09	1.05 y	26:39	-	0.98
17	Tri	PCB-16/32	800.00	1.02e+09	1.06 y	27:10	-	0.84
18	Tri	PCB-34	400.00	6.61e+08	1.09 y	27:57	-	1.07
19	Tri	PCB-23	400.00	6.32e+08	1.10 y	28:03	-	1.02
20	Tri	PCB-29	400.00	6.52e+08	1.09 y	28:18	-	1.06
21	Tri	PCB-26	400.00	6.34e+08	1.11 y	28:30	-	1.03
22	Tri	PCB-25	400.00	6.76e+08	1.08 y	28:39	-	1.09
23	Tri	PCB-31	400.00	6.48e+08	1.08 y	29:01	-	1.05
24	Tri	PCB-28	400.00	7.30e+08	1.09 y	29:08	-	1.18
25	Tri	PCB-20/21/33	1200.00	2.00e+09	1.09 y	29:44	-	1.08
26	Tri	PCB-22	400.00	6.74e+08	1.09 y	30:10	-	1.09
27	Tri	PCB-36	400.00	6.53e+08	1.09 y	30:47	-	1.16
28	Tri	PCB-39	400.00	6.69e+08	1.09 y	31:15	-	1.19
29	Tri	PCB-38	400.00	6.54e+08	1.09 y	32:02	-	1.16
30	Tri	PCB-35	400.00	6.68e+08	1.09 y	32:32	-	1.19
31	Tri	PCB-37	400.00	6.65e+08	1.09 y	33:00	-	1.18
32	Tetra	PCB-54	400.00	5.24e+08	0.78 y	28:01	-	1.01
33	Tetra	PCB-50	400.00	4.18e+08	0.77 y	29:10	-	0.81
34	Tetra	PCB-53	400.00	4.29e+08	0.78 y	29:49	-	1.00
35	Tetra	PCB-51	400.00	4.24e+08	0.77 y	30:09	-	0.99
36	Tetra	PCB-45	400.00	3.49e+08	0.77 y	30:35	-	0.81
37	Tetra	PCB-46	400.00	3.30e+08	0.78 y	31:05	-	0.77
38	Tetra	PCB-52/69	800.00	9.21e+08	0.77 y	31:32	-	1.07
39	Tetra	PCB-73	400.00	5.23e+08	0.78 y	31:39	-	1.22
40	Tetra	PCB-43/49	800.00	8.03e+08	0.77 y	31:49	-	0.94
41	Tetra	PCB-47	400.00	4.43e+08	0.77 y	32:02	-	0.96

42	Tetra	PCB-48/75	800.00	9.95e+08	0.78 y	32:08	-	1.08
43	Tetra	PCB-65	400.00	5.26e+08	0.77 y	32:24	-	1.15
44	Tetra	PCB-62	400.00	4.75e+08	0.78 y	32:31	-	1.03
45	Tetra	PCB-44	400.00	3.59e+08	0.78 y	32:49	-	0.78
46	Tetra	PCB-42/59	800.00	9.31e+08	0.78 y	33:03	-	1.01
47	Tetra	PCB-41/64/71/72	1600.00	2.06e+09	0.78 y	33:38	-	1.12
48	Tetra	PCB-68	400.00	5.66e+08	0.78 y	33:53	-	1.23
49	Tetra	PCB-40	400.00	3.06e+08	0.78 y	34:07	-	0.67
50	Tetra	PCB-57	400.00	5.45e+08	0.78 y	34:27	-	0.92
51	Tetra	PCB-67	400.00	5.29e+08	0.77 y	34:45	-	0.90
52	Tetra	PCB-58	400.00	5.39e+08	0.78 y	34:53	-	0.91

53	Tetra	PCB-63	400.00	5.63e+08	0.78 y	35:02	-	0.95
54	Tetra	PCB-74	400.00	5.92e-08	0.78 y	35:19	-	1.00
55	Tetra	PCB-61/70	800.00	1.09e+09	0.78 y	35:30	-	0.92
56	Tetra	PCB-76/66	800.00	1.11e+09	0.78 y	35:43	-	0.94
57	Tetra	PCB-80	400.00	6.36e+08	0.78 y	35:57	-	1.07
58	Tetra	PCB-55	400.00	5.70e+08	0.78 y	36:16	-	0.96
59	Tetra	PCB-56/60	800.00	1.08e+09	0.77 y	36:46	-	0.91
60	Tetra	PCB-79	400.00	5.68e+08	0.78 y	37:49	-	0.95
61	Tetra	PCB-78	400.00	5.53e+08	0.77 y	38:31	-	1.02
62	Tetra	PCB-81	400.00	6.17e+08	0.77 y	39:03	-	1.14
63	Tetra	PCB-77	400.00	5.82e+08	0.80 y	39:38	-	1.02
64	Penta	PCB-104	400.00	3.92e+08	1.60 y	32:41	-	1.03
65	Penta	PCB-96	400.00	3.47e+08	1.59 y	33:56	-	0.92
66	Penta	PCB-103	400.00	3.03e+08	1.60 y	34:28	-	0.80
67	Penta	PCB-100	400.00	3.29e+08	1.60 y	34:50	-	0.87
68	Penta	PCB-94	400.00	2.68e+08	1.60 y	35:18	-	0.91
69	Penta	PCB-95/98/102	1200.00	9.09e+08	1.60 y	35:47	-	1.04
70	Penta	PCB-93	400.00	2.47e+08	1.60 y	35:56	-	0.84
71	Penta	PCB-88/91	800.00	5.23e+08	1.56 y	36:12	-	0.89
72	Penta	PCB-121	400.00	4.29e+08	1.64 y	36:18	-	1.46
73	Penta	PCB-84/92	800.00	5.39e+08	1.60 y	37:08	-	0.87
74	Penta	PCB-89	400.00	2.55e+08	1.60 y	37:20	-	0.83
75	Penta	PCB-90/101	800.00	6.11e+08	1.59 y	37:30	-	0.99
76	Penta	PCB-113	400.00	3.59e+08	1.58 y	37:45	-	1.16
77	Penta	PCB-99	400.00	3.19e+08	1.61 y	37:50	-	1.03
78	Penta	PCB-119	400.00	4.01e+08	1.59 y	38:18	-	1.48
79	Penta	PCB-108/112	800.00	5.97e+08	1.60 y	38:28	-	1.10
80	Penta	PCB-83	400.00	3.51e+08	1.60 y	38:37	-	1.30
81	Penta	PCB-97	400.00	2.87e+08	1.60 y	38:48	-	1.06
82	Penta	PCB-86	400.00	2.42e+08	1.63 y	38:58	-	0.90
83	Penta	PCB-87/117/125	1200.00	1.11e+09	1.59 y	39:05	-	1.37
84	Penta	PCB-111/115	800.00	7.75e+08	1.58 y	39:15	-	1.43
85	Penta	PCB-85/116	800.00	6.10e+08	1.63 y	39:23	-	1.13
86	Penta	PCB-120	400.00	4.12e+08	1.59 y	39:36	-	1.52
87	Penta	PCB-110	400.00	3.74e+08	1.60 y	39:45	-	1.38
88	Penta	PCB-82	400.00	2.25e+08	1.60 y	40:23	-	0.60
89	Penta	PCB-124	400.00	4.01e+08	1.59 y	41:04	-	1.07
90	Penta	PCB-107/109	800.00	8.08e+08	1.60 y	41:12	-	1.08
91	Penta	PCB-123	400.00	3.78e+08	1.60 y	41:22	-	1.01
92	Penta	PCB-106/118	800.00	8.07e+08	1.60 y	41:34	-	1.01
93	Penta	PCB-114	400.00	4.81e+08	1.63 y	42:13	-	1.11
94	Penta	PCB-122	400.00	4.40e+08	1.59 y	42:21	-	1.02
95	Penta	PCB-105	400.00	4.86e+08	1.61 y	43:04	-	1.09
96	Penta	PCB-127	400.00	4.44e+08	1.65 y	43:24	-	0.94
97	Penta	PCB-126	400.00	4.53e+08	1.69 y	45:18	-	1.10
98	Hexa	PCB-155	400.00	3.12e+08	1.27 y	37:04	-	0.98
99	Hexa	PCB-150	400.00	2.99e+08	1.28 y	38:19	-	0.94
100	Hexa	PCB-152	400.00	2.95e+08	1.28 y	38:47	-	0.92
101	Hexa	PCB-145	400.00	2.95e+08	1.27 y	39:15	-	0.92
102	Hexa	PCB-136	400.00	2.81e+08	1.31 y	39:34	-	0.88

103	Hexa	PCB-148	400.00	2.24e+08	1.24 y	39:40	-	0.70
104	Hexa	PCB-154	400.00	2.37e+08	1.27 y	40:09	-	0.74
105	Hexa	PCB-151	400.00	2.17e+08	1.27 y	40:48	-	0.68
106	Hexa	PCB-135	400.00	2.24e+08	1.25 y	41:00	-	0.70
107	Hexa	PCB-144	400.00	2.17e+08	1.28 y	41:07	-	0.68
108	Hexa	PCB-147	400.00	2.25e+08	1.29 y	41:15	-	0.70
109	Hexa	PCB-139/149	800.00	4.68e+08	1.28 y	41:31	-	0.73
110	Hexa	PCB-140	400.00	2.12e+08	1.27 y	41:42	-	0.66
111	Hexa	PCB-134/143	800.00	6.17e+08	1.24 y	42:08	-	0.78
112	Hexa	PCB-133/142	800.00	6.26e+08	1.23 y	42:26	-	0.79
113	Hexa	PCB-131	400.00	2.95e+08	1.25 y	42:36	-	0.74

114	Hexa	PCB-146/165	800.00	7.73e+08	1.24 y	42:49	-	0.97
115	Hexa	PCB-132/161	800.00	7.41e+08	1.23 y	43:04	-	0.93
116	Hexa	PCB-153	400.00	3.95e+08	1.23 y	43:13	-	0.99
117	Hexa	PCB-168	400.00	4.52e+08	1.23 y	43:26	-	1.14
118	Hexa	PCB-141	400.00	3.03e+08	1.23 y	43:57	-	0.83
119	Hexa	PCB-137	400.00	3.53e+08	1.24 y	44:20	-	0.96
120	Hexa	PCB-130	400.00	2.61e+08	1.22 y	44:27	-	0.71
121	Hexa	PCB-138/163/164	1200.00	1.16e+09	1.23 y	44:49	-	1.05
122	Hexa	PCB-158/160	800.00	8.21e+08	1.23 y	45:04	-	1.11
123	Hexa	PCB-129	400.00	2.80e+08	1.23 y	45:18	-	0.76
124	Hexa	PCB-166	400.00	3.99e+08	1.23 y	45:46	-	0.94
125	Hexa	PCB-159	400.00	4.06e+08	1.26 y	46:06	-	0.96
126	Hexa	PCB-128/162	800.00	7.15e+08	1.23 y	46:23	-	0.85
127	Hexa	PCB-167	400.00	4.05e+08	1.22 y	46:46	-	0.88
128	Hexa	PCB-156	400.00	4.28e+08	1.23 y	48:03	-	0.98
129	Hexa	PCB-157	400.00	4.21e+08	1.24 y	48:20	-	0.91
130	Hexa	PCB-169	400.00	3.99e+08	1.23 y	50:23	-	0.94
131	Hepta	PCB-188	400.00	3.97e+08	1.04 y	42:51	-	1.17
132	Hepta	PCB-184	400.00	3.45e+08	1.05 y	43:18	-	1.02
133	Hepta	PCB-179	400.00	3.55e+08	1.05 y	44:05	-	1.05
134	Hepta	PCB-176	400.00	3.64e+08	1.05 y	44:33	-	1.07
135	Hepta	PCB-186	400.00	3.55e+08	1.05 y	45:10	-	1.05
136	Hepta	PCB-178	400.00	2.55e+08	1.05 y	45:39	-	0.75
137	Hepta	PCB-175	400.00	2.66e+08	1.05 y	46:00	-	0.78
138	Hepta	PCB-182/187	800.00	5.78e+08	1.06 y	46:10	-	0.85
139	Hepta	PCB-183	400.00	2.87e+08	1.05 y	46:29	-	0.85
140	Hepta	PCB-185	400.00	2.56e+08	1.05 y	47:09	-	1.10
141	Hepta	PCB-174	400.00	2.74e+08	1.04 y	47:30	-	1.18
142	Hepta	PCB-181	400.00	2.51e+08	1.05 y	47:37	-	1.08
143	Hepta	PCB-177	400.00	2.40e+08	1.05 y	47:47	-	1.03
144	Hepta	PCB-171	400.00	2.57e+08	1.05 y	48:05	-	1.10
145	Hepta	PCB-173	400.00	2.26e+08	1.05 y	48:30	-	0.97
146	Hepta	PCB-172	400.00	2.44e+08	1.05 y	48:57	-	1.05
147	Hepta	PCB-192	400.00	3.09e+08	1.05 y	49:08	-	1.33
148	Hepta	PCB-180	400.00	2.75e+08	1.05 y	49:20	-	1.18
149	Hepta	PCB-193	400.00	3.25e+08	1.06 y	49:31	-	1.40
150	Hepta	PCB-191	400.00	3.32e+08	1.05 y	49:46	-	1.43
151	Hepta	PCB-170	400.00	2.30e+08	1.05 y	50:45	-	1.23
152	Hepta	PCB-190	400.00	3.17e+08	1.05 y	50:55	-	1.70
153	Hepta	PCB-189	400.00	3.22e+08	1.05 y	52:11	-	1.30
154	Octa	PCB-202	400.00	2.47e+08	0.91 y	48:16	-	0.85
155	Octa	PCB-201	400.00	2.67e+08	0.90 y	48:45	-	0.92
156	Octa	PCB-204	400.00	2.45e+08	0.91 y	48:54	-	0.84
157	Octa	PCB-197	400.00	2.62e+08	0.91 y	49:13	-	0.90
158	Octa	PCB-200	400.00	2.51e+08	0.91 y	50:03	-	0.87
159	Octa	PCB-198	400.00	1.73e+08	0.90 y	51:19	-	0.60
160	Octa	PCB-199	400.00	1.84e+08	0.91 y	51:25	-	0.63
161	Octa	PCB-196/203	800.00	3.87e+08	0.90 y	51:41	-	0.67
162	Octa	PCB-195	400.00	2.55e+08	0.91 y	52:49	-	1.04
163	Octa	PCB-194	400.00	2.51e+08	0.92 y	53:40	-	1.02

164	Octa		PCB-205	400.00	2.86e+08	0.92	y	53:57	- 1.17
165	Nona		PCB-208	400.00	2.69e+08	1.32	y	52:57	- 0.78
166	Nona		PCB-207	400.00	2.66e+08	1.33	y	53:15	- 0.78
167	Nona		PCB-206	400.00	1.66e+08	1.33	y	55:21	- 0.84
168	Deca		PCB-209	400.00	1.83e+08	1.19	y	56:38	- 0.99
169	Tot ╗	Total Mono-PCB		0.00	-	-	n	-	- 1.02
170	Tot ╗	Total Di-PCB		0.00	-	-	n	-	- 1.03
171	Tot ╗	Total Tri-PCB		0.00	-	-	n	-	- 0.96

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.11
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	0.99
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.03
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.05
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.78
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.91
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.05
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.77
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.08
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	0.79
182	Tot ╗	Total Deca-PCB	400.00	1.83e+08	1.19	y	56:38	-	0.99
183	Mono╗	13C-PCB-1	100.00	1.66e+08	3.23	y	16:14	-	0.88
184	Mono╗	13C-PCB-3	100.00	1.71e+08	3.33	y	18:49	-	0.91
185	Di-IS	13C-PCB-4	100.00	1.00e+08	1.57	y	20:08	-	0.53
186	Di-IS	13C-PCB-9	100.00	1.51e+08	1.58	y	21:55	-	0.80
187	Di-IS	13C-PCB-11	100.00	1.75e+08	1.57	y	25:16	-	0.93
188	Tri-╗	13C-PCB-19	100.00	9.71e+07	1.07	y	24:16	-	0.52
189	Tri-╗	13C-PCB-32	100.00	1.52e+08	1.07	y	27:10	-	0.81
190	Tri-╗	13C-PCB-28	100.00	1.54e+08	1.06	y	29:06	-	0.96
191	Tri-╗	13C-PCB-37	100.00	1.41e+08	1.06	y	32:58	-	0.87
192	Tetr╗	13C-PCB-54	100.00	1.29e+08	0.81	y	27:60	-	0.83
193	Tetr╗	13C-PCB-52	100.00	1.07e+08	0.80	y	31:31	-	0.68
194	Tetr╗	13C-PCB-47	100.00	1.15e+08	0.80	y	32:00	-	0.73
195	Tetr╗	13C-PCB-70	100.00	1.48e+08	0.80	y	35:31	-	0.94
196	Tetr╗	13C-PCB-80	100.00	1.49e+08	0.80	y	35:56	-	0.95
197	Tetr╗	13C-PCB-81	100.00	1.35e+08	0.82	y	39:03	-	0.86
198	Tetr╗	13C-PCB-77	100.00	1.43e+08	0.81	y	39:38	-	0.91
199	Pent╗	13C-PCB-104	100.00	9.47e+07	1.61	y	32:40	-	0.96
200	Pent╗	13C-PCB-95	100.00	7.32e+07	1.57	y	35:49	-	0.74
201	Pent╗	13C-PCB-101	100.00	7.72e+07	1.62	y	37:30	-	0.78
202	Pent╗	13C-PCB-97	100.00	6.76e+07	1.59	y	38:48	-	0.69
203	Pent╗	13C-PCB-123	100.00	9.35e+07	1.62	y	41:21	-	0.95
204	Pent╗	13C-PCB-118	100.00	9.95e+07	1.59	y	41:32	-	1.01
205	Pent╗	13C-PCB-114	100.00	1.08e+08	1.58	y	42:12	-	1.25
206	Pent╗	13C-PCB-105	100.00	1.12e+08	1.60	y	43:04	-	1.29
207	Pent╗	13C-PCB-127	100.00	1.18e+08	1.58	y	43:23	-	1.36
208	Pent╗	13C-PCB-126	100.00	1.03e+08	1.56	y	45:18	-	1.19
209	Hexa╗	13C-PCB-155	100.00	7.98e+07	1.30	y	37:03	-	0.81
210	Hexa╗	13C-PCB-153	100.00	9.94e+07	1.27	y	43:12	-	1.15
211	Hexa╗	13C-PCB-141	100.00	9.18e+07	1.28	y	43:57	-	1.06
212	Hexa	13C-PCB-138	100.00	9.22e+07	1.27	y	44:48	-	1.06
213	Hexa╗	13C-PCB-159	100.00	1.06e+08	1.27	y	46:04	-	1.22
214	Hexa╗	13C-PCB-167	100.00	1.14e+08	1.27	y	46:45	-	1.32
215	Hexa╗	13C-PCB-156	100.00	1.09e+08	1.27	y	48:03	-	1.26
216	Hexa╗	13C-PCB-157	100.00	1.15e+08	1.31	y	48:19	-	1.33
217	Hexa╗	13C-PCB-169	100.00	1.06e+08	1.26	y	50:23	-	1.22
218	Hept╗	13C-PCB-188	100.00	8.49e+07	0.47	y	42:50	-	0.98
219	Hept╗	13C-PCB-180	100.00	5.82e+07	0.47	y	49:20	-	0.67
220	Hept╗	13C-PCB-170	100.00	4.66e+07	0.46	y	50:44	-	0.54
221	Hept╗	13C-PCB-189	100.00	6.18e+07	0.46	y	52:11	-	0.71
222	Octa╗	13C-PCB-202	100.00	7.25e+07	0.90	y	48:16	-	0.84

223	Octa╗	13C-PCB-194	100.00	6.13e+07	0.91 y	53:40	-	0.81
224	Nona╗	13C-PCB-208	100.00	8.58e+07	0.78 y	52:56	-	1.14
225	Nona╗	13C-PCB-206	100.00	4.92e+07	0.81 y	55:20	-	0.65
226	Deca╗	13C-PCB-209	100.00	4.62e+07	1.22 y	56:37	-	0.61
227	DI-RS	13C-PCB-15	100.00	1.89e+08	1.58 y	25:58	-	1.00
228	Tri-╗	13C-PCB-31	100.00	1.61e+08	1.07 y	28:60	-	1.00
229	Tetr╗	13C-PCB-60	100.00	1.57e+08	0.80 y	36:46	-	1.00
230	Penta	13C-PCB-111	100.00	9.86e+07	1.61 y	39:13	-	1.00
231	Hexa╗	13C-PCB-128	100.00	8.68e+07	1.28 y	46:21	-	1.00
232	Octa╗	13C-PCB-205	100.00	7.56e+07	0.92 y	53:57	-	1.00

233	CRS	13C-PCB-79	100.00	1.55e+08	0.79 y	37:49	-	0.99
234	CRS	13C-PCB-178	100.00	5.41e+07	0.47 y	45:38	-	0.62
235	PS	13C-PCB-79	100.00	1.55e+08	0.79 y	37:49	-	1.15
236	PS	13C-PCB-178	100.00	5.41e+07	0.47 y	45:38	-	0.93

Filename: 140620E1 S: 6 Acquired: 20-JUN-14 14:51:49
Run: 140620E1 Analyte: ICal: PCBVG8-6-20-14 Results:
Sample text: ST140620E1-6 PCB CS5 13H1207

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	750.00	1.43e+09	2.96 y	16:15	-	1.27
2	Mono	PCB-2	750.00	1.51e+09	2.98 y	18:36	-	1.18
3	Mono	PCB-3	750.00	1.54e+09	2.98 y	18:50	-	1.20
4	Di	PCB-4/10	3000.00	4.71e+09	1.64 y	20:12	-	1.54
5	Di	PCB-7/9	3000.00	5.85e+09	1.64 y	21:57	-	1.25
6	Di	PCB-6	1500.00	2.81e+09	1.64 y	22:36	-	1.20
7	Di	PCB-5/8	3000.00	5.77e+09	1.64 y	23:01	-	1.23
8	Di	PCB-14	1500.00	3.24e+09	1.64 y	24:06	-	1.20
9	Di	PCB-11	1500.00	3.05e+09	1.65 y	25:17	-	1.13
10	Di	PCB-12/13	3000.00	5.91e+09	1.64 y	25:41	-	1.09
11	Di	PCB-15	1500.00	3.20e+09	1.64 y	26:00	-	1.18
12	Tri	PCB-19	750.00	9.08e+08	1.05 y	24:17	-	1.23
13	Tri	PCB-30	750.00	1.34e+09	1.06 y	25:10	-	1.82
14	Tri	PCB-18	750.00	9.50e+08	1.05 y	25:55	-	0.81
15	Tri	PCB-17	750.00	1.00e+09	1.05 y	26:05	-	0.86
16	Tri	PCB-24/27	1500.00	2.69e+09	1.05 y	26:40	-	1.15
17	Tri	PCB-16/32	1500.00	2.29e+09	1.06 y	27:10	-	0.98
18	Tri	PCB-34	750.00	1.45e+09	1.09 y	27:57	-	1.16
19	Tri	PCB-23	750.00	1.49e+09	1.09 y	28:03	-	1.19
20	Tri	PCB-29	750.00	1.47e+09	1.09 y	28:18	-	1.18
21	Tri	PCB-26	750.00	1.45e+09	1.10 y	28:30	-	1.16
22	Tri	PCB-25	750.00	1.51e+09	1.09 y	28:40	-	1.21
23	Tri	PCB-31	750.00	1.64e+09	1.06 y	29:01	-	1.32
24	Tri	PCB-28	750.00	1.49e+09	1.12 y	29:08	-	1.20
25	Tri	PCB-20/21/33	2250.00	4.54e+09	1.09 y	29:44	-	1.21
26	Tri	PCB-22	750.00	1.53e+09	1.09 y	30:11	-	1.23
27	Tri	PCB-36	750.00	1.49e+09	1.09 y	30:47	-	1.32
28	Tri	PCB-39	750.00	1.57e+09	1.09 y	31:15	-	1.39
29	Tri	PCB-38	750.00	1.52e+09	1.09 y	32:03	-	1.35
30	Tri	PCB-35	750.00	1.55e+09	1.09 y	32:33	-	1.38
31	Tri	PCB-37	750.00	1.56e+09	1.09 y	32:59	-	1.39
32	Tetra	PCB-54	750.00	1.18e+09	0.78 y	28:01	-	1.18
33	Tetra	PCB-50	750.00	9.47e+08	0.78 y	29:11	-	0.95
34	Tetra	PCB-53	750.00	9.66e+08	0.78 y	29:49	-	1.14
35	Tetra	PCB-51	750.00	9.67e+08	0.77 y	30:10	-	1.14
36	Tetra	PCB-45	750.00	7.90e+08	0.77 y	30:35	-	0.93
37	Tetra	PCB-46	750.00	7.50e+08	0.77 y	31:05	-	0.88
38	Tetra	PCB-52/69	1500.00	2.10e+09	0.77 y	31:33	-	1.23
39	Tetra	PCB-73	750.00	1.23e+09	0.78 y	31:40	-	1.45
40	Tetra	PCB-43/49	1500.00	1.83e+09	0.78 y	31:50	-	1.08
41	Tetra	PCB-47	750.00	9.58e+08	0.77 y	32:02	-	1.07

42	Tetra	PCB-48/75	1500.00	2.33e+09	0.78 y	32:09	-	1.30
43	Tetra	PCB-65	750.00	1.16e+09	0.77 y	32:25	-	1.30
44	Tetra	PCB-62	750.00	1.12e+09	0.78 y	32:32	-	1.25
45	Tetra	PCB-44	750.00	8.19e+08	0.78 y	32:49	-	0.92
46	Tetra	PCB-42/59	1500.00	2.16e+09	0.77 y	33:03	-	1.21
47	Tetra	PCB-41/64/71/72	3000.00	4.74e+09	0.78 y	33:38	-	1.33
48	Tetra	PCB-68	750.00	1.31e+09	0.78 y	33:54	-	1.46
49	Tetra	PCB-40	750.00	6.99e+08	0.78 y	34:07	-	0.78
50	Tetra	PCB-57	750.00	1.25e+09	0.77 y	34:28	-	1.07
51	Tetra	PCB-67	750.00	1.21e+09	0.77 y	34:46	-	1.03
52	Tetra	PCB-58	750.00	1.25e+09	0.78 y	34:53	-	1.07

53	Tetra	PCB-63	750.00	1.31e+09	0.77 y	35:03	-	1.12
54	Tetra	PCB-74	750.00	1.38e+09	0.81 y	35:20	-	1.18
55	Tetra	PCB-61/70	1500.00	2.48e+09	0.75 y	35:31	-	1.06
56	Tetra	PCB-76/66	1500.00	2.59e+09	0.78 y	35:44	-	1.10
57	Tetra	PCB-80	750.00	1.47e+09	0.78 y	35:57	-	1.24
58	Tetra	PCB-55	750.00	1.33e+09	0.78 y	36:17	-	1.12
59	Tetra	PCB-56/60	1500.00	2.53e+09	0.78 y	36:47	-	1.07
60	Tetra	PCB-79	750.00	1.34e+09	0.78 y	37:50	-	1.13
61	Tetra	PCB-78	750.00	1.30e+09	0.78 y	38:32	-	1.18
62	Tetra	PCB-81	750.00	1.44e+09	0.77 y	39:04	-	1.31
63	Tetra	PCB-77	750.00	1.37e+09	0.79 y	39:39	-	1.17
64	Penta	PCB-104	750.00	8.87e+08	1.60 y	32:41	-	1.22
65	Penta	PCB-96	750.00	7.97e+08	1.60 y	33:56	-	1.10
66	Penta	PCB-103	750.00	7.09e+08	1.60 y	34:28	-	0.98
67	Penta	PCB-100	750.00	7.64e+08	1.60 y	34:50	-	1.05
68	Penta	PCB-94	750.00	6.22e+08	1.59 y	35:18	-	1.08
69	Penta	PCB-95/98/102	2250.00	2.03e+09	1.58 y	35:47	-	1.17
70	Penta	PCB-93	750.00	6.23e+08	1.66 y	35:56	-	1.08
71	Penta	PCB-88/91	1500.00	1.15e+09	1.55 y	36:12	-	1.00
72	Penta	PCB-121	750.00	1.07e+09	1.65 y	36:18	-	1.85
73	Penta	PCB-84/92	1500.00	1.26e+09	1.59 y	37:08	-	1.02
74	Penta	PCB-89	750.00	6.06e+08	1.66 y	37:20	-	0.98
75	Penta	PCB-90/101	1500.00	1.42e+09	1.58 y	37:30	-	1.15
76	Penta	PCB-113	750.00	8.20e+08	1.61 y	37:45	-	1.33
77	Penta	PCB-99	750.00	7.64e+08	1.59 y	37:50	-	1.24
78	Penta	PCB-119	750.00	9.38e+08	1.60 y	38:18	-	1.73
79	Penta	PCB-108/112	1500.00	1.41e+09	1.59 y	38:28	-	1.30
80	Penta	PCB-83	750.00	8.35e+08	1.61 y	38:37	-	1.54
81	Penta	PCB-97	750.00	6.67e+08	1.59 y	38:49	-	1.23
82	Penta	PCB-86	750.00	5.75e+08	1.59 y	38:57	-	1.06
83	Penta	PCB-87/117/125	2250.00	2.55e+09	1.60 y	39:05	-	1.57
84	Penta	PCB-111/115	1500.00	1.80e+09	1.61 y	39:14	-	1.66
85	Penta	PCB-85/116	1500.00	1.47e+09	1.60 y	39:22	-	1.35
86	Penta	PCB-120	750.00	9.60e+08	1.60 y	39:36	-	1.77
87	Penta	PCB-110	750.00	8.91e+08	1.60 y	39:45	-	1.64
88	Penta	PCB-82	750.00	5.54e+08	1.60 y	40:23	-	0.71
89	Penta	PCB-124	750.00	1.04e+09	1.59 y	41:04	-	1.33
90	Penta	PCB-107/109	1500.00	1.83e+09	1.60 y	41:12	-	1.17
91	Penta	PCB-123	750.00	9.32e+08	1.60 y	41:23	-	1.20
92	Penta	PCB-106/118	1500.00	1.91e+09	1.60 y	41:34	-	1.19
93	Penta	PCB-114	750.00	1.21e+09	1.60 y	42:13	-	1.35
94	Penta	PCB-122	750.00	1.09e+09	1.62 y	42:22	-	1.22
95	Penta	PCB-105	750.00	1.17e+09	1.61 y	43:05	-	1.28
96	Penta	PCB-127	750.00	1.10e+09	1.63 y	43:25	-	1.09
97	Penta	PCB-126	750.00	1.11e+09	1.70 y	45:18	-	1.27
98	Hexa	PCB-155	750.00	7.23e+08	1.27 y	37:04	-	1.15
99	Hexa	PCB-150	750.00	6.95e+08	1.28 y	38:19	-	1.10
100	Hexa	PCB-152	750.00	6.85e+08	1.28 y	38:48	-	1.09
101	Hexa	PCB-145	750.00	6.77e+08	1.27 y	39:14	-	1.08
102	Hexa	PCB-136	750.00	7.15e+08	1.29 y	39:34	-	1.14

103	Hexa	PCB-148	750.00	4.56e+08	1.26 y	39:41	-	0.72
104	Hexa	PCB-154	750.00	5.75e+08	1.28 y	40:09	-	0.91
105	Hexa	PCB-151	750.00	5.08e+08	1.28 y	40:48	-	0.81
106	Hexa	PCB-135	750.00	5.16e+08	1.27 y	41:00	-	0.82
107	Hexa	PCB-144	750.00	5.14e+08	1.29 y	41:07	-	0.82
108	Hexa	PCB-147	750.00	5.36e+08	1.28 y	41:15	-	0.85
109	Hexa	PCB-139/149	1500.00	1.09e+09	1.28 y	41:31	-	0.86
110	Hexa	PCB-140	750.00	5.03e+08	1.28 y	41:42	-	0.80
111	Hexa	PCB-134/143	1500.00	1.43e+09	1.24 y	42:09	-	0.87
112	Hexa	PCB-133/142	1500.00	1.48e+09	1.23 y	42:26	-	0.90
113	Hexa	PCB-131	750.00	7.12e+08	1.24 y	42:36	-	0.87

114	Hexa	PCB-146/165	1500.00	1.86e+09	1.24 y	42:49	-	1.13
115	Hexa	PCB-132/161	1500.00	1.76e+09	1.23 y	43:04	-	1.07
116	Hexa	PCB-153	750.00	9.65e+08	1.23 y	43:14	-	1.18
117	Hexa	PCB-168	750.00	1.10e+09	1.23 y	43:27	-	1.35
118	Hexa	PCB-141	750.00	7.68e+08	1.23 y	43:58	-	0.99
119	Hexa	PCB-137	750.00	8.69e+08	1.22 y	44:21	-	1.11
120	Hexa	PCB-130	750.00	6.96e+08	1.25 y	44:28	-	0.89
121	Hexa	PCB-138/163/164	2250.00	2.89e+09	1.23 y	44:50	-	1.24
122	Hexa	PCB-158/160	1500.00	2.02e+09	1.23 y	45:05	-	1.29
123	Hexa	PCB-129	750.00	6.88e+08	1.23 y	45:19	-	0.88
124	Hexa	PCB-166	750.00	1.04e+09	1.22 y	45:46	-	1.13
125	Hexa	PCB-159	750.00	1.10e+09	1.22 y	46:05	-	1.20
126	Hexa	PCB-128/162	1500.00	1.89e+09	1.23 y	46:23	-	1.03
127	Hexa	PCB-167	750.00	1.07e+09	1.23 y	46:47	-	1.05
128	Hexa	PCB-156	750.00	1.08e+09	1.23 y	48:04	-	1.12
129	Hexa	PCB-157	750.00	1.06e+09	1.24 y	48:21	-	1.06
130	Hexa	PCB-169	750.00	1.01e+09	1.24 y	50:24	-	1.09
131	Hepta	PCB-188	750.00	9.34e+08	1.05 y	42:52	-	1.37
132	Hepta	PCB-184	750.00	8.40e+08	1.05 y	43:19	-	1.23
133	Hepta	PCB-179	750.00	8.75e+08	1.05 y	44:05	-	1.28
134	Hepta	PCB-176	750.00	9.17e+08	1.06 y	44:33	-	1.34
135	Hepta	PCB-186	750.00	8.77e+08	1.05 y	45:10	-	1.29
136	Hepta	PCB-178	750.00	6.27e+08	1.05 y	45:39	-	0.92
137	Hepta	PCB-175	750.00	6.73e+08	1.05 y	45:60	-	0.99
138	Hepta	PCB-182/187	1500.00	1.46e+09	1.05 y	46:10	-	1.07
139	Hepta	PCB-183	750.00	7.62e+08	1.05 y	46:29	-	1.12
140	Hepta	PCB-185	750.00	6.80e+08	1.05 y	47:09	-	1.35
141	Hepta	PCB-174	750.00	7.07e+08	1.04 y	47:31	-	1.40
142	Hepta	PCB-181	750.00	6.72e+08	1.06 y	47:38	-	1.33
143	Hepta	PCB-177	750.00	6.12e+08	1.05 y	47:47	-	1.21
144	Hepta	PCB-171	750.00	6.44e+08	1.05 y	48:05	-	1.28
145	Hepta	PCB-173	750.00	5.59e+08	1.05 y	48:31	-	1.11
146	Hepta	PCB-172	750.00	5.96e+08	1.04 y	48:57	-	1.18
147	Hepta	PCB-192	750.00	7.62e+08	1.05 y	49:09	-	1.51
148	Hepta	PCB-180	750.00	6.75e+08	1.05 y	49:21	-	1.34
149	Hepta	PCB-193	750.00	8.02e+08	1.05 y	49:32	-	1.59
150	Hepta	PCB-191	750.00	8.11e+08	1.05 y	49:46	-	1.61
151	Hepta	PCB-170	750.00	5.79e+08	1.05 y	50:45	-	1.44
152	Hepta	PCB-190	750.00	7.99e+08	1.05 y	50:55	-	1.98
153	Hepta	PCB-189	750.00	8.34e+08	1.05 y	52:11	-	1.54
154	Octa	PCB-202	750.00	6.16e+08	0.91 y	48:17	-	0.99
155	Octa	PCB-201	750.00	6.74e+08	0.90 y	48:46	-	1.09
156	Octa	PCB-204	750.00	6.20e+08	0.90 y	48:55	-	1.00
157	Octa	PCB-197	750.00	6.60e+08	0.90 y	49:13	-	1.06
158	Octa	PCB-200	750.00	6.36e+08	0.90 y	50:03	-	1.02
159	Octa	PCB-198	750.00	4.35e+08	0.90 y	51:19	-	0.70
160	Octa	PCB-199	750.00	4.62e+08	0.92 y	51:25	-	0.74
161	Octa	PCB-196/203	1500.00	9.78e+08	0.91 y	51:41	-	0.79
162	Octa	PCB-195	750.00	6.36e+08	0.92 y	52:48	-	1.19
163	Octa	PCB-194	750.00	6.26e+08	0.92 y	53:40	-	1.17

164	Octa		PCB-205	750.00	7.28e+08	0.91	y	53:57	- 1.36
165	Nona		PCB-208	750.00	6.70e+08	1.33	y	52:57	- 0.91
166	Nona		PCB-207	750.00	6.71e+08	1.33	y	53:15	- 0.91
167	Nona		PCB-206	750.00	4.30e+08	1.34	y	55:19	- 0.98
168	Deca		PCB-209	750.00	4.91e+08	1.19	y	56:35	- 1.16
169	Tot ╗	Total Mono-PCB		0.00	-	-	n	-	- 1.22
170	Tot ╗	Total Di-PCB		0.00	-	-	n	-	- 1.19
171	Tot ╗	Total Tri-PCB		0.00	-	-	n	-	- 1.12

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.26
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.15
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.21
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.24
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.93
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.07
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.26
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.91
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.24
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	0.93
182	Tot ╗	Total Deca-PCB	750.00	4.91e+08	1.19	y	56:35	-	1.16
183	Mono╗	13C-PCB-1	100.00	1.50e+08	3.31	y	16:14	-	0.76
184	Mono╗	13C-PCB-3	100.00	1.70e+08	3.29	y	18:49	-	0.86
185	Di-IS	13C-PCB-4	100.00	1.02e+08	1.58	y	20:08	-	0.52
186	Di-IS	13C-PCB-9	100.00	1.56e+08	1.60	y	21:55	-	0.79
187	Di-IS	13C-PCB-11	100.00	1.80e+08	1.58	y	25:16	-	0.91
188	Tri-╗	13C-PCB-19	100.00	9.83e+07	1.04	y	24:16	-	0.50
189	Tri-╗	13C-PCB-32	100.00	1.56e+08	1.07	y	27:10	-	0.79
190	Tri-╗	13C-PCB-28	100.00	1.66e+08	1.06	y	29:07	-	0.98
191	Tri-╗	13C-PCB-37	100.00	1.50e+08	1.08	y	32:58	-	0.89
192	Tetr╗	13C-PCB-54	100.00	1.33e+08	0.80	y	27:59	-	0.77
193	Tetr╗	13C-PCB-52	100.00	1.13e+08	0.80	y	31:31	-	0.66
194	Tetr╗	13C-PCB-47	100.00	1.19e+08	0.80	y	32:01	-	0.70
195	Tetr╗	13C-PCB-70	100.00	1.56e+08	0.81	y	35:31	-	0.91
196	Tetr╗	13C-PCB-80	100.00	1.58e+08	0.80	y	35:56	-	0.92
197	Tetr╗	13C-PCB-81	100.00	1.47e+08	0.81	y	39:03	-	0.86
198	Tetr╗	13C-PCB-77	100.00	1.56e+08	0.81	y	39:38	-	0.91
199	Pent╗	13C-PCB-104	100.00	9.67e+07	1.59	y	32:40	-	0.90
200	Pent╗	13C-PCB-95	100.00	7.69e+07	1.59	y	35:49	-	0.72
201	Pent╗	13C-PCB-101	100.00	8.24e+07	1.61	y	37:30	-	0.77
202	Pent╗	13C-PCB-97	100.00	7.23e+07	1.63	y	38:48	-	0.67
203	Pent╗	13C-PCB-123	100.00	1.04e+08	1.60	y	41:22	-	0.97
204	Pent╗	13C-PCB-118	100.00	1.07e+08	1.61	y	41:33	-	0.99
205	Pent╗	13C-PCB-114	100.00	1.19e+08	1.61	y	42:12	-	1.15
206	Pent╗	13C-PCB-105	100.00	1.23e+08	1.59	y	43:04	-	1.19
207	Pent╗	13C-PCB-127	100.00	1.34e+08	1.58	y	43:23	-	1.30
208	Pent╗	13C-PCB-126	100.00	1.17e+08	1.57	y	45:18	-	1.14
209	Hexa╗	13C-PCB-155	100.00	8.39e+07	1.28	y	37:03	-	0.78
210	Hexa╗	13C-PCB-153	100.00	1.09e+08	1.28	y	43:13	-	1.06
211	Hexa╗	13C-PCB-141	100.00	1.04e+08	1.29	y	43:57	-	1.01
212	Hexa	13C-PCB-138	100.00	1.04e+08	1.28	y	44:48	-	1.01
213	Hexa╗	13C-PCB-159	100.00	1.22e+08	1.26	y	46:04	-	1.19
214	Hexa╗	13C-PCB-167	100.00	1.35e+08	1.27	y	46:45	-	1.31
215	Hexa╗	13C-PCB-156	100.00	1.28e+08	1.27	y	48:03	-	1.24
216	Hexa╗	13C-PCB-157	100.00	1.33e+08	1.28	y	48:19	-	1.29
217	Hexa╗	13C-PCB-169	100.00	1.24e+08	1.28	y	50:23	-	1.20
218	Hept╗	13C-PCB-188	100.00	9.09e+07	0.46	y	42:51	-	0.88
219	Hept╗	13C-PCB-180	100.00	6.73e+07	0.47	y	49:20	-	0.65
220	Hept╗	13C-PCB-170	100.00	5.38e+07	0.46	y	50:44	-	0.52
221	Hept╗	13C-PCB-189	100.00	7.24e+07	0.47	y	52:11	-	0.70
222	Octa╗	13C-PCB-202	100.00	8.28e+07	0.92	y	48:16	-	0.80

223	Octa╗	13C-PCB-194	100.00	7.14e+07	0.92 y	53:39	-	0.79
224	Nona╗	13C-PCB-208	100.00	9.82e+07	0.76 y	52:56	-	1.09
225	Nona╗	13C-PCB-206	100.00	5.84e+07	0.80 y	55:19	-	0.65
226	Deca╗	13C-PCB-209	100.00	5.63e+07	1.21 y	56:35	-	0.62
227	DI-RS	13C-PCB-15	100.00	1.97e+08	1.56 y	25:59	-	1.00
228	Tri-╗	13C-PCB-31	100.00	1.69e+08	1.06 y	28:60	-	1.00
229	Tetr╗	13C-PCB-60	100.00	1.71e+08	0.80 y	36:46	-	1.00
230	Penta	13C-PCB-111	100.00	1.07e+08	1.60 y	39:13	-	1.00
231	Hexa╗	13C-PCB-128	100.00	1.03e+08	1.28 y	46:21	-	1.00
232	Octa╗	13C-PCB-205	100.00	9.02e+07	0.91 y	53:56	-	1.00

233	CRS		13C-PCB-79	100.00	1.75e+08	0.80 y	37:49	-	1.02
234	CRS		13C-PCB-178	100.00	6.43e+07	0.47 y	45:38	-	0.62
235	PS		13C-PCB-79	100.00	1.75e+08	0.80 y	37:49	-	1.19
236	PS		13C-PCB-178	100.00	6.43e+07	0.47 y	45:38	-	0.96

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140620E1-4 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 140620E1 S#4 Analysis Date: 20-JUN-14 Time: 12:43:46

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	2.96	2.66-3.60	y	52.3	37.5-62.5
PCB-2	2.98	2.66-3.60	y	52.3	37.5-62.5
PCB-3	2.98	2.66-3.60	y	51.7	37.5-62.5
PCB-4/10	1.64	1.33-1.79	y	206.7	150-250
PCB-7/9	1.64	1.33-1.79	y	204.6	150-250
PCB-6	1.64	1.33-1.79	y	99.9	75.0-125
PCB-5/8	1.64	1.33-1.79	y	206.9	150-250
PCB-14	1.65	1.33-1.79	y	102.3	75.0-125
PCB-11	1.66	1.33-1.79	y	101.6	75.0-125
PCB-12/13	1.63	1.33-1.79	y	205.7	150-250
PCB-15	1.66	1.33-1.79	y	101.1	75.0-125
PCB-19	1.05	0.88-1.20	y	49.4	37.5-62.5
PCB-30	1.06	0.88-1.20	y	51.2	37.5-62.5
PCB-18	1.05	0.88-1.20	y	50.4	37.5-62.5
PCB-17	1.05	0.88-1.20	y	51.0	37.5-62.5
PCB-24/27	1.06	0.88-1.20	y	103.5	75.0-125
PCB-16/32	1.05	0.88-1.20	y	100.5	75.0-125
PCB-34	1.08	0.88-1.20	y	57.4	37.5-62.5
PCB-23	1.11	0.88-1.20	y	46.4	37.5-62.5
PCB-29	1.09	0.88-1.20	y	51.1	37.5-62.5
PCB-26	1.08	0.88-1.20	y	50.7	37.5-62.5
PCB-25	1.09	0.88-1.20	y	51.5	37.5-62.5
PCB-31	1.08	0.88-1.20	y	49.7	37.5-62.5
PCB-28	1.11	0.88-1.20	y	52.5	37.5-62.5
PCB-20/21/33	1.09	0.88-1.20	y	152.7	112.5-225
PCB-22	1.08	0.88-1.20	y	52.6	37.5-62.5
PCB-36	1.09	0.88-1.20	y	52.3	37.5-62.5
PCB-39	1.08	0.88-1.20	y	51.7	37.5-62.5
PCB-38	1.10	0.88-1.20	y	52.4	37.5-62.5
PCB-35	1.11	0.88-1.20	y	52.7	37.5-62.5
PCB-37	1.09	0.88-1.20	y	51.2	37.5-62.5
PCB-54	0.76	0.65-0.89	y	51.7	37.5-62.5
PCB-50	0.77	0.65-0.89	y	51.4	37.5-62.5
PCB-53	0.78	0.65-0.89	y	50.2	37.5-62.5
PCB-51	0.78	0.65-0.89	y	53.2	37.5-62.5
PCB-45	0.78	0.65-0.89	y	52.8	37.5-62.5
PCB-46	0.76	0.65-0.89	y	50.1	37.5-62.5
PCB-52/69	0.77	0.65-0.89	y	105.4	75.0-125
PCB-73	0.77	0.65-0.89	y	52.2	37.5-62.5
PCB-43/49	0.77	0.65-0.89	y	101.6	75.0-125
PCB-47	0.76	0.65-0.89	y	53.7	37.5-62.5
PCB-48/75	0.77	0.65-0.89	y	99.8	75.0-125
PCB-65	0.77	0.65-0.89	y	49.4	37.5-62.5
PCB-62	0.77	0.65-0.89	y	53.4	37.5-62.5
PCB-44	0.78	0.65-0.89	y	51.3	37.5-62.5
PCB-42/59	0.77	0.65-0.89	y	103.4	75.0-125
PCB-41/64/71/72	0.78	0.65-0.89	y	205.8	150-250
PCB-68	0.78	0.65-0.89	y	50.9	37.5-62.5
PCB-40	0.77	0.65-0.89	y	50.7	37.5-62.5
PCB-57	0.77	0.65-0.89	y	51.8	37.5-62.5
PCB-67	0.77	0.65-0.89	y	53.3	37.5-62.5
PCB-58	0.78	0.65-0.89	y	49.3	37.5-62.5
PCB-63	0.76	0.65-0.89	y	51.7	37.5-62.5
PCB-74	0.77	0.65-0.89	y	51.8	37.5-62.5
PCB-61/70	0.78	0.65-0.89	y	101.8	75.0-125
PCB-76/66	0.77	0.65-0.89	y	103.1	75.0-125
PCB-80	0.78	0.65-0.89	y	50.2	37.5-62.5
PCB-55	0.77	0.65-0.89	y	51.5	37.5-62.5
PCB-56/60	0.77	0.65-0.89	y	100.3	75.0-125
PCB-79	0.78	0.65-0.89	y	51.2	37.5-62.5
PCB-78	0.78	0.65-0.89	y	51.1	37.5-62.5
PCB-81	0.78	0.65-0.89	y	50.9	37.5-62.5
PCB-77	0.79	0.65-0.89	y	52.0	37.5-62.5
PCB-104	1.61	1.32-1.78	y	50.4	37.5-62.5
PCB-96	1.59	1.32-1.78	y	50.5	37.5-62.5
PCB-103	1.58	1.32-1.78	y	50.8	37.5-62.5
PCB-100	1.61	1.32-1.78	y	50.5	37.5-62.5
PCB-94	1.58	1.32-1.78	y	50.8	37.5-62.5
PCB-95/98/102	1.60	1.32-1.78	y	160.1	112.5-225
PCB-93	1.63	1.32-1.78	y	42.1	37.5-62.5
PCB-88/91	1.59	1.32-1.78	y	114.0	75.0-125
PCB-121	1.59	1.32-1.78	y	43.7	37.5-62.5

Analyst: DMS

Date: 6/23/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140620E1-4 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 140620E1 S#4 Analysis Date: 20-JUN-14 Time: 12:43:46

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-84/92	1.59	1.32-1.78	y	103.4	75.0-125	PCB-140	1.28	1.05-1.43	y	54.6	37.5-62.5
PCB-89	1.61	1.32-1.78	y	53.1	37.5-62.5	PCB-134/143	1.24	1.05-1.43	y	102.9	75.0-125
PCB-90/101	1.60	1.32-1.78	y	102.1	75.0-125	PCB-133/142	1.23	1.05-1.43	y	102.0	75.0-125
PCB-113	1.58	1.32-1.78	y	56.1	37.5-62.5	PCB-131	1.22	1.05-1.43	y	49.4	37.5-62.5
PCB-99	1.64	1.32-1.78	y	46.1	37.5-62.5	PCB-146/165	1.24	1.05-1.43	y	100.9	75.0-125
PCB-119	1.61	1.32-1.78	y	50.3	37.5-62.5	PCB-132/161	1.22	1.05-1.43	y	102.0	75.0-125
PCB-108/112	1.63	1.32-1.78	y	103.0	75.0-125	PCB-153	1.22	1.05-1.43	y	50.2	37.5-62.5
PCB-83	1.62	1.32-1.78	y	52.1	37.5-62.5	PCB-168	1.21	1.05-1.43	y	50.2	37.5-62.5
PCB-97	1.60	1.32-1.78	y	52.6	37.5-62.5	PCB-141	1.21	1.05-1.43	y	50.4	37.5-62.5
PCB-86	1.58	1.32-1.78	y	48.0	37.5-62.5	PCB-137	1.24	1.05-1.43	y	48.3	37.5-62.5
PCB-87/117/125	1.60	1.32-1.78	y	154.2	112.5-225	PCB-130	1.26	1.05-1.43	y	54.3	37.5-62.5
PCB-111/115	1.68	1.32-1.78	y	102.0	75.0-125	PCB-138/163/164	1.23	1.05-1.43	y	154.4	112.5-225
PCB-85/116	1.48	1.32-1.78	y	101.9	75.0-125	PCB-158/160	1.23	1.05-1.43	y	104.2	75.0-125
PCB-120	1.57	1.32-1.78	y	49.2	37.5-62.5	PCB-129	1.25	1.05-1.43	y	50.6	37.5-62.5
PCB-110	1.61	1.32-1.78	y	51.1	37.5-62.5	PCB-166	1.22	1.05-1.43	y	51.1	37.5-62.5
PCB-82	1.59	1.32-1.78	y	49.3	37.5-62.5	PCB-159	1.23	1.05-1.43	y	52.7	37.5-62.5
PCB-124	1.60	1.32-1.78	y	49.9	37.5-62.5	PCB-128/162	1.22	1.05-1.43	y	104.6	75.0-125
PCB-107/109	1.59	1.32-1.78	y	101.7	75.0-125	PCB-167	1.21	1.05-1.43	y	51.6	37.5-62.5
PCB-123	1.59	1.32-1.78	y	52.4	37.5-62.5	PCB-156	1.22	1.05-1.43	y	49.4	37.5-62.5
PCB-106/118	1.62	1.32-1.78	y	104.7	75.0-125	PCB-157	1.22	1.05-1.43	y	51.2	37.5-62.5
PCB-114	1.64	1.32-1.78	y	50.7	37.5-62.5	PCB-169	1.22	1.05-1.43	y	49.9	37.5-62.5
PCB-122	1.64	1.32-1.78	y	51.0	37.5-62.5	PCB-188	1.02	0.89-1.21	y	50.8	37.5-62.5
PCB-105	1.62	1.32-1.78	y	51.4	37.5-62.5	PCB-184	1.04	0.89-1.21	y	51.3	37.5-62.5
PCB-127	1.64	1.32-1.78	y	51.1	37.5-62.5	PCB-179	1.04	0.89-1.21	y	50.2	37.5-62.5
PCB-126	1.62	1.32-1.78	y	51.1	37.5-62.5	PCB-176	1.04	0.89-1.21	y	50.5	37.5-62.5
PCB-155	1.27	1.05-1.43	y	52.7	37.5-62.5	PCB-186	1.04	0.89-1.21	y	51.2	37.5-62.5
PCB-150	1.28	1.05-1.43	y	51.9	37.5-62.5	PCB-178	1.04	0.89-1.21	y	50.8	37.5-62.5
PCB-152	1.27	1.05-1.43	y	51.1	37.5-62.5	PCB-175	1.04	0.89-1.21	y	52.7	37.5-62.5
PCB-145	1.26	1.05-1.43	y	50.6	37.5-62.5	PCB-182/187	1.04	0.89-1.21	y	104.2	75.0-125
PCB-136	1.27	1.05-1.43	y	52.1	37.5-62.5	PCB-183	1.04	0.89-1.21	y	50.9	37.5-62.5
PCB-148	1.30	1.05-1.43	y	51.3	37.5-62.5	PCB-185	1.04	0.89-1.21	y	50.3	37.5-62.5
PCB-154	1.25	1.05-1.43	y	52.4	37.5-62.5	PCB-174	1.03	0.89-1.21	y	49.1	37.5-62.5
PCB-151	1.30	1.05-1.43	y	52.9	37.5-62.5	PCB-181	1.06	0.89-1.21	y	52.4	37.5-62.5
PCB-135	1.28	1.05-1.43	y	51.8	37.5-62.5	PCB-177	1.05	0.89-1.21	y	51.2	37.5-62.5
PCB-144	1.36	1.05-1.43	y	55.0	37.5-62.5	PCB-171	1.04	0.89-1.21	y	49.7	37.5-62.5
PCB-147	1.18	1.05-1.43	y	52.9	37.5-62.5	PCB-173	1.05	0.89-1.21	y	49.7	37.5-62.5
PCB-139/149	1.27	1.05-1.43	y	107.6	75.0-125	PCB-172	1.02	0.89-1.21	y	49.8	37.5-62.5

Analyst: DMS

Date: 6/23/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140620E1-4 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 140620E1 S#4 Analysis Date: 20-JUN-14 Time: 12:43:46

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC FOUND	CONC. RANGE (ng/mL)
PCB-192	1.05	0.89-1.21	y	50.5	37.5-62.5
PCB-180	1.04	0.89-1.21	y	49.1	37.5-62.5
PCB-193	1.05	0.89-1.21	y	50.4	37.5-62.5
PCB-191	1.06	0.89-1.21	y	50.0	37.5-62.5
PCB-170	1.03	0.89-1.21	y	49.6	37.5-62.5
PCB-190	1.02	0.89-1.21	y	50.5	37.5-62.5
PCB-189	1.04	0.89-1.21	y	51.7	37.5-62.5
PCB-202	0.91	0.76-1.02	y	50.0	37.5-62.5
PCB-201	0.93	0.76-1.02	y	50.4	37.5-62.5
PCB-204	0.88	0.76-1.02	y	52.0	37.5-62.5
PCB-197	0.91	0.76-1.02	y	52.0	37.5-62.5
PCB-200	0.91	0.76-1.02	y	52.4	37.5-62.5
PCB-198	0.90	0.76-1.02	y	51.5	37.5-62.5
PCB-199	0.89	0.76-1.02	y	52.5	37.5-62.5
PCB-196/203	0.90	0.76-1.02	y	104.9	75.0-125
PCB-195	0.90	0.76-1.02	y	51.9	37.5-62.5
PCB-194	0.90	0.76-1.02	y	49.9	37.5-62.5
PCB-205	0.91	0.76-1.02	y	49.6	37.5-62.5
PCB-208	1.33	1.14-1.54	y	49.5	37.5-62.5
PCB-207	1.32	1.14-1.54	y	50.8	37.5-62.5
PCB-206	1.33	1.14-1.54	y	49.7	37.5-62.5
PCB-209	1.19	0.99-1.33	y	52.5	37.5-62.5

Analyst: DMS

Date: 6/23/14

Client ID: PCB CS3 14F1901 Filename: 140620E1 S:4 Acq:20-JUN-14 12:43:46 ConCal: ST140620E1-4

Lab ID: ST140620E1-4 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: ST140620E1-8

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	7.79e+07	2.96 y	1.25	16:15	1.001	0.996	1.006	52.3077
PCB-2	7.75e+07	2.98 y	1.18	18:36	0.988	0.983	0.993	52.2846
PCB-3	7.90e+07	2.98 y	1.22	18:50	1.001	0.996	1.006	51.6788
PCB-4/10	2.37e+08	1.64 y	1.55	20:12	1.003	0.998	1.008	206.748
PCB-7/9	2.89e+08	1.64 y	1.27	21:57	0.869	0.865	0.873	204.628
PCB-6	1.40e+08	1.64 y	1.26	22:36	0.894	0.890	0.899	99.9095
PCB-5/8	2.84e+08	1.64 y	1.23	23:01	0.911	0.906	0.916	206.862
PCB-14	1.57e+08	1.65 y	1.23	24:06	0.954	0.949	0.959	102.294
PCB-11	1.47e+08	1.66 y	1.16	25:17	1.000	0.996	1.006	101.627
PCB-12/13	2.82e+08	1.63 y	1.10	25:41	1.016	1.010	1.020	205.694
PCB-15	1.52e+08	1.66 y	1.21	26:00	1.029	1.024	1.034	101.148
PCB-19	4.60e+07	1.05 y	1.30	24:17	1.001	0.996	1.006	49.3886
PCB-30	6.73e+07	1.06 y	1.83	25:10	1.037	1.032	1.042	51.1589
PCB-18	4.72e+07	1.05 y	0.86	25:55	0.954	0.949	0.959	50.4475
PCB-17	5.00e+07	1.05 y	0.90	26:05	0.960	0.955	0.965	50.9703
PCB-24/27	1.33e+08	1.06 y	1.18	26:40	0.981	0.976	0.986	103.472
- PCB-16/32	1.13e+08	1.05 y	1.03	27:10	1.000	0.995	1.005	100.505
- PCB-34	7.74e+07	1.08 y	1.26	27:58	0.961	0.956	0.966	57.3995
PCB-23	6.51e+07	1.11 y	1.31	28:04	0.964	0.959	0.969	46.4036
PCB-29	7.26e+07	1.09 y	1.33	28:18	0.972	0.967	0.977	51.0903
PCB-26	7.01e+07	1.08 y	1.29	28:30	0.979	0.974	0.984	50.7150
PCB-25	7.40e+07	1.09 y	1.34	28:40	0.985	0.980	0.990	51.5314
PCB-31	7.55e+07	1.08 y	1.42	29:02	0.997	0.992	1.002	49.7377
PCB-28	7.73e+07	1.11 y	1.38	29:07	1.000	0.996	1.006	52.4521
PCB-20/21/33	2.14e+08	1.09 y	1.31	29:45	1.022	1.017	1.027	152.731
PCB-22	7.44e+07	1.08 y	1.32	30:11	1.037	1.032	1.042	52.6344
PCB-36	7.16e+07	1.09 y	1.38	30:47	0.933	0.929	0.939	52.3141
PCB-39	7.29e+07	1.08 y	1.42	31:16	0.948	0.943	0.953	51.6606
PCB-38	7.06e+07	1.10 y	1.35	32:02	0.971	0.967	0.976	52.4183
PCB-35	7.21e+07	1.11 y	1.38	32:33	0.987	0.982	0.992	52.6668
PCB-37	7.08e+07	1.09 y	1.39	32:59	1.000	0.996	1.006	51.1869
PCB-54	5.75e+07	0.76 y	1.20	28:01	1.001	0.996	1.006	51.7229
PCB-50	4.61e+07	0.77 y	0.97	29:11	1.042	1.037	1.047	51.4094
PCB-53	4.59e+07	0.78 y	1.19	29:49	0.946	0.941	0.951	50.2276
PCB-51	4.72e+07	0.78 y	1.15	30:10	0.957	0.952	0.962	53.1558
PCB-45	3.92e+07	0.78 y	0.97	30:35	0.971	0.966	0.976	52.7585
PCB-46	3.67e+07	0.76 y	0.95	31:04	0.986	0.982	0.992	50.0611

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-52/69	1.04e+08	0.77 y	1.28	31:33	1.001	0.996	1.006	105.426
PCB-73	5.51e+07	0.77 y	1.37	31:39	1.005	1.000	1.010	52.1810
PCB-43/49	8.70e+07	0.77 y	1.11	31:50	1.010	1.005	1.015	101.562
PCB-47	4.93e+07	0.76 y	1.13	32:02	1.000	0.996	1.006	53.6979
PCB-48/75	1.06e+08	0.77 y	1.30	32:09	1.004	0.999	1.009	99.7567
PCB-65	5.34e+07	0.77 y	1.33	32:25	1.012	1.007	1.017	49.3948
PCB-62	5.60e+07	0.77 y	1.29	32:32	1.016	1.011	1.021	53.4188
PCB-44	3.91e+07	0.78 y	0.94	32:50	1.025	1.020	1.030	51.2578
PCB-42/59	1.02e+08	0.77 y	1.22	33:02	1.032	1.028	1.038	103.394
PCB-41/64/71/72	2.19e+08	0.78 y	1.31	33:38	1.050	1.046	1.056	205.816
PCB-68	6.14e+07	0.78 y	1.49	33:54	1.059	1.054	1.064	50.9457
PCB-40	3.37e+07	0.77 y	0.82	34:06	1.065	1.061	1.071	50.7163
PCB-57	5.90e+07	0.77 y	1.11	34:28	0.970	0.965	0.975	51.7966
PCB-67	5.86e+07	0.77 y	1.07	34:46	0.979	0.974	0.984	53.3170
PCB-58	5.56e+07	0.78 y	1.10	34:53	0.982	0.977	0.987	49.2975
PCB-63	5.91e+07	0.76 y	1.12	35:03	0.987	0.982	0.992	51.7181
PCB-74	6.38e+07	0.77 y	1.20	35:20	0.995	0.990	1.000	51.8367
PCB-61/70	1.12e+08	0.78 y	1.08	35:30	0.999	0.994	1.004	101.842
PCB-76/66	1.20e+08	0.77 y	1.14	35:43	1.005	1.001	1.011	103.088
PCB-80	6.74e+07	0.78 y	1.28	35:56	1.000	0.996	1.006	50.2410
PCB-55	6.01e+07	0.77 y	1.11	36:17	1.010	1.005	1.015	51.5207
PCB-56/60	1.15e+08	0.77 y	1.09	36:46	1.023	1.018	1.028	100.313
PCB-79	6.04e+07	0.78 y	1.12	37:50	1.053	1.048	1.058	51.1728
PCB-78	5.76e+07	0.78 y	1.24	38:32	0.987	0.982	0.992	51.0794
PCB-81	6.41e+07	0.78 y	1.38	39:03	1.000	0.995	1.005	50.9258
PCB-77	6.12e+07	0.79 y	1.21	39:39	1.000	0.995	1.005	51.9669
PCB-104	4.41e+07	1.61 y	1.26	32:41	1.000	0.996	1.006	50.3835
PCB-96	3.84e+07	1.59 y	1.09	33:57	1.039	1.034	1.044	50.4976
PCB-103	3.30e+07	1.58 y	0.93	34:29	1.055	1.050	1.060	50.7622
PCB-100	3.52e+07	1.61 y	1.00	34:49	1.066	1.061	1.071	50.4670
PCB-94	2.91e+07	1.58 y	1.11	35:18	0.985	0.981	0.991	50.7908
PCB-95/98/102	1.01e+08	1.60 y	1.21	35:47	0.999	0.994	1.004	160.143
PCB-93	2.46e+07	1.63 y	1.13	35:56	1.003	0.998	1.008	42.0683
PCB-88/91	6.02e+07	1.59 y	1.02	36:12	1.010	1.006	1.016	114.032
PCB-121	4.31e+07	1.59 y	1.90	36:19	1.014	1.009	1.019	43.6820
PCB-84/92	5.90e+07	1.59 y	1.05	37:08	0.990	0.986	0.996	103.399
PCB-89	2.93e+07	1.61 y	1.02	37:19	0.995	0.991	1.001	53.0820

RL: MONO, TRI - DECA: —

RL: DI : —

Integrations by Analyst: DMS Date: 6/23/14

Reviewed by Analyst: _____ Date: _____

Client ID: PCB CS3 14F1901 Filename: 140620E1 S:4 Acq:20-JUN-14 12:43:46 ConCal: ST140620E1-4
Lab ID: ST140620E1-4 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: ST140620E1-8

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-90/101	6.59e+07	1.60	y	1.19	37:31	1.001	0.996	1.006	102.056
	PCB-113	4.11e+07	1.58	y	1.35	37:45	1.007	1.002	1.012	56.0520
	PCB-99	3.22e+07	1.64	y	1.29	37:51	1.010	1.005	1.015	46.1415
	PCB-119	4.21e+07	1.61	y	1.72	38:18	0.987	0.982	0.992	50.2990
	PCB-108/112	6.45e+07	1.63	y	1.29	38:27	0.991	0.986	0.996	102.978
	PCB-83	3.85e+07	1.62	y	1.52	38:38	0.996	0.991	1.001	52.0737
	PCB-97	3.19e+07	1.60	y	1.25	38:49	1.000	0.996	1.006	52.5654
	PCB-86	2.39e+07	1.58	y	1.02	38:58	1.004	1.000	1.010	48.0340
	B-87/117/125	1.17e+08	1.60	y	1.56	39:05	1.007	1.002	1.012	154.194
	PCB-111/115	8.69e+07	1.68	y	1.75	39:15	1.012	1.007	1.017	101.981
	PCB-85/116	6.45e+07	1.48	y	1.30	39:23	1.015	1.010	1.020	101.910
	PCB-120	4.26e+07	1.57	y	1.78	39:37	1.021	1.016	1.026	49.1740
	PCB-110	4.18e+07	1.61	y	1.68	39:46	1.025	1.020	1.030	51.1450
	PCB-82	2.58e+07	1.59	y	0.74	40:23	0.976	0.972	0.982	49.2945
	PCB-124	4.68e+07	1.60	y	1.32	41:03	0.993	0.988	0.998	49.9220
	PCB-107/109	8.79e+07	1.59	y	1.22	41:12	0.996	0.991	1.001	101.669
	PCB-123	4.52e+07	1.59	y	1.22	41:22	1.000	0.995	1.005	52.4448
-	PCB-106/118	9.37e+07	1.62	y	1.22	41:35	1.001	0.996	1.006	104.679
-	PCB-114	5.41e+07	1.64	y	1.36	42:13	1.000	0.995	1.005	50.6622
	PCB-122	4.97e+07	1.64	y	1.24	42:21	1.004	0.999	1.009	50.9693
	PCB-105	5.28e+07	1.62	y	1.28	43:05	1.001	0.995	1.005	51.3611
	PCB-127	5.04e+07	1.64	y	1.14	43:24	1.000	0.995	1.005	51.1125
	PCB-126	4.91e+07	1.62	y	1.28	45:19	1.001	0.995	1.005	51.0683
	PCB-155	3.50e+07	1.27	y	1.14	37:04	1.001	0.966	1.006	52.6727
	PCB-150	3.23e+07	1.28	y	1.06	38:20	1.035	1.030	1.040	51.8920
	PCB-152	3.28e+07	1.27	y	1.10	38:49	1.048	1.043	1.053	51.0615
	PCB-145	3.24e+07	1.26	y	1.09	39:15	1.060	1.055	1.065	50.6281
	PCB-136	3.31e+07	1.27	y	1.08	39:35	1.069	1.064	1.074	52.0720
	PCB-148	2.22e+07	1.30	y	0.74	39:40	1.071	1.066	1.076	51.2670
	PCB-154	2.71e+07	1.25	y	0.88	40:10	1.084	1.079	1.089	52.4052
	PCB-151	2.51e+07	1.30	y	0.81	40:48	1.102	1.097	1.107	52.9183
	PCB-135	2.36e+07	1.28	y	0.78	41:01	1.107	1.101	1.113	51.8361
	PCB-144	2.64e+07	1.36	y	0.82	41:08	1.110	1.105	1.116	54.9912
	PCB-147	2.56e+07	1.18	y	0.83	41:16	1.114	1.011	1.120	52.8823
	PCB-139/149	5.32e+07	1.27	y	0.84	41:31	1.121	1.115	1.127	107.613
-	PCB-140	2.51e+07	1.28	y	0.79	41:43	1.126	1.120	1.132	54.6052
-	PCB-134/143	7.01e+07	1.24	y	0.93	42:08	0.975	0.970	0.980	102.949

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
PCB-133/142	7.08e+07	1.23	y	0.95	42:26	0.982	0.977	0.987	102.037
PCB-131	3.32e+07	1.22	y	0.91	42:36	0.986	0.981	0.991	49.4221
PCB-146/165	8.56e+07	1.24	y	1.16	42:48	0.991	0.986	0.996	100.884
PCB-132/161	8.34e+07	1.22	y	1.11	43:03	0.996	0.992	1.002	102.031
PCB-153	4.34e+07	1.22	y	1.18	43:14	1.001	0.995	1.005	50.1872
PCB-168	5.04e+07	1.21	y	1.37	43:27	1.006	1.000	1.010	50.1556
PCB-141	3.48e+07	1.21	y	0.97	43:58	1.001	0.996	1.005	50.4291
PCB-137	3.66e+07	1.24	y	1.07	44:21	1.009	1.004	1.014	48.2814
PCB-130	3.25e+07	1.26	y	0.85	44:27	1.012	1.007	1.017	54.2556
PCB-138/163/164	1.29e+08	1.23	y	1.23	44:50	1.001	0.996	1.006	154.435
PCB-158/160	9.17e+07	1.23	y	1.29	45:05	1.007	1.001	1.011	104.238
PCB-129	3.19e+07	1.25	y	0.92	45:19	1.012	1.007	1.017	50.5660
PCB-166	4.45e+07	1.22	y	1.12	45:46	0.993	0.988	0.998	51.1070
PCB-159	4.79e+07	1.23	y	1.16	46:05	1.000	0.995	1.005	52.6640
PCB-128/162	8.32e+07	1.22	y	1.02	46:22	1.006	1.002	1.012	104.591
PCB-167	4.69e+07	1.21	y	1.06	46:47	1.001	0.995	1.005	51.5594
PCB-156	4.73e+07	1.22	y	1.18	48:04	1.000	0.995	1.005	49.4312
PCB-157	4.74e+07	1.22	y	1.08	48:20	1.000	0.995	1.005	51.2216
PCB-169	4.38e+07	1.22	y	1.11	50:24	1.000	0.995	1.005	49.8867
PCB-188	4.41e+07	1.02	y	1.40	42:52	1.000	0.995	1.005	50.7803
PCB-184	3.92e+07	1.04	y	1.24	43:18	1.011	1.006	1.016	51.2869
PCB-179	4.05e+07	1.04	y	1.30	44:06	1.029	1.024	1.034	50.2126
PCB-176	4.26e+07	1.04	y	1.36	44:34	1.040	1.035	1.045	50.5434
PCB-186	4.04e+07	1.04	y	1.28	45:10	1.054	1.049	1.059	51.1676
PCB-178	2.94e+07	1.04	y	0.94	45:39	1.066	1.061	1.071	50.8281
PCB-175	3.16e+07	1.04	y	0.97	46:00	1.074	1.069	1.079	52.7165
PCB-182/187	6.54e+07	1.04	y	1.01	46:11	1.078	1.073	1.083	104.234
PCB-183	3.41e+07	1.04	y	1.08	46:29	1.085	1.080	1.090	50.9232
PCB-185	3.03e+07	1.04	y	1.34	47:09	0.956	0.951	0.961	50.2993
PCB-174	2.95e+07	1.03	y	1.34	47:31	0.963	0.958	0.968	49.0649
PCB-181	3.20e+07	1.06	y	1.36	47:37	0.966	0.961	0.971	52.3684
PCB-177	2.85e+07	1.05	y	1.24	47:48	0.969	0.964	0.974	51.2147
PCB-171	2.93e+07	1.04	y	1.31	48:05	0.975	0.970	0.980	49.7433
PCB-173	2.59e+07	1.05	y	1.16	48:31	0.984	0.979	0.989	49.7232
PCB-172	2.73e+07	1.02	y	1.22	48:57	0.993	0.988	0.998	49.7746
PCB-192	3.46e+07	1.05	y	1.53	49:09	0.996	0.991	1.001	50.4921
PCB-180	3.15e+07	1.04	y	1.43	49:20	1.000	0.995	1.005	49.0865

RL: MONO, TRI - DECA: ———

Integrations by Analyst: DMS

Date: 6/23/14

Client ID: PCB CS3 14F1901 Filename: 140620E1 S:4 Acq:20-JUN-14 12:43:46 ConCal: ST140620E1-4

Lab ID: ST140620E1-4 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: ST140620E1-8

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-193	3.74e+07	1.05	y	1.65	49:32	1.004	0.999	1.009	50.3769
	PCB-191	3.75e+07	1.06	y	1.67	49:47	1.009	1.004	1.014	49.9945
	PCB-170	2.66e+07	1.03	y	1.50	50:46	1.000	0.995	1.005	49.6074
	PCB-190	3.64e+07	1.02	y	2.02	50:55	1.003	0.998	1.008	50.4804
	PCB-189	3.90e+07	1.04	y	1.54	52:12	1.000	0.995	1.005	51.6684
	PCB-202	2.92e+07	0.91	y	1.04	48:17	1.000	0.995	1.005	49.9695
	PCB-201	3.12e+07	0.93	y	1.10	48:46	1.011	1.006	1.016	50.3688
	PCB-204	2.91e+07	0.88	y	0.99	48:56	1.014	1.009	1.019	52.0459
	PCB-197	3.14e+07	0.91	y	1.07	49:13	1.020	1.015	1.025	51.9828
	PCB-200	3.00e+07	0.91	y	1.02	50:03	1.037	1.032	1.044	52.4432
	PCB-198	2.15e+07	0.90	y	0.74	51:20	1.063	1.058	1.068	51.5297
	PCB-199	2.15e+07	0.89	y	0.73	51:25	1.065	1.060	1.070	52.5143
-	PCB-196/203	4.56e+07	0.90	y	0.77	51:41	1.071	1.066	1.076	104.918
-	PCB-195	2.91e+07	0.90	y	1.20	52:49	0.984	0.979	0.989	51.8965
	PCB-194	2.91e+07	0.90	y	1.25	53:41	1.000	0.995	1.005	49.8808
	PCB-205	3.28e+07	0.91	y	1.41	53:58	1.006	1.001	1.011	49.5944
	PCB-208	3.18e+07	1.33	y	0.96	52:57	1.000	0.995	1.005	49.4830
	PCB-207	3.10e+07	1.32	y	0.92	53:16	1.006	1.001	1.011	50.7809
	PCB-206	2.07e+07	1.33	y	1.03	55:21	1.000	0.995	1.005	49.7349
	PCB-209	2.28e+07	1.19	y	1.18	56:38	1.000	0.995	1.005	52.4674

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	2.34e+08	2.96	y	16:15	1.22	156.271	
Total Di-PCB	1.69e+09	1.64	y	20:12	1.21	1228.91	
Total Tri-PCB	4.56e+08	1.05	y	24:17	1.16	405.942	
Total Tri-PCB	1.17e+09	1.08	y	27:58	1.35	834.371	Sum:1240.31
Total Tetra-PCB	2.26e+09	0.76	y	28:01	1.17	2169.09	
Total Penta-PCB	1.49e+09	1.61	y	32:41	1.21	2099.97	
Total Penta-PCB	2.69e+08	1.64	y	42:13	1.26	267.736	Sum:2367.71
Total Hexa-PCB	3.94e+08	1.27	y	37:04	0.92	736.844	
Total Hexa-PCB	1.17e+09	1.24	y	42:08	1.08	1448.04	Sum:2184.88
Total Hepta-PCB	8.19e+08	1.02	y	42:52	1.27	1225.74	
Total Octa-PCB	2.40e+08	0.91	y	48:17	0.92	465.773	
Total Octa-PCB	9.28e+07	0.90	y	52:49	1.29	154.410	Sum:620.183
Total Nona-PCB	8.35e+07	1.33	y	52:57	0.96	149.999	
Total Deca-PCB	2.28e+07	1.19	y	56:38	1.18	52.4674	

Total PCB Conc:11327.5526340

RL: MONO, TRI - DECA: —

Integrations by Analyst: DMS

Date: 6/23/14

Client ID: PCB CS3 14F1901 Filename: 140620E1 S:4 Acq:20-JUN-14 12:43:46 ConCal: ST140620E1-4

Lab ID: ST140620E1-4 GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000 EndCAL: ST140620E1-8

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.19e+08	3.24 y	0.89	16:14	0.625	0.622	0.628	98.9	98.9
13C-PCB-3	1.25e+08	3.32 y	0.93	18:49	0.725	0.721	0.729	100	100
13C-PCB-4	7.38e+07	1.60 y	0.55	20:09	0.776	0.772	0.780	99.9	99.9
13C-PCB-9	1.11e+08	1.59 y	0.83	21:55	0.844	0.840	0.848	100.0	100.0
13C-PCB-11	1.25e+08	1.58 y	0.94	25:16	0.973	0.968	0.978	98.6	98.6
13C-PCB-19	7.19e+07	1.04 y	0.53	24:16	0.934	0.929	0.939	100	100
13C-PCB-28	1.07e+08	1.05 y	0.89	29:07	1.004	0.999	1.009	96.1	96.1
13C-PCB-32	1.09e+08	1.07 y	0.81	27:10	1.046	1.041	1.051	99.3	99.3
13C-PCB-37	9.94e+07	1.06 y	0.83	32:59	1.137	1.131	1.143	95.3	95.3
13C-PCB-47	8.11e+07	0.81 y	0.74	32:01	0.871	0.867	0.875	98.7	98.7
13C-PCB-52	7.70e+07	0.79 y	0.71	31:30	0.857	0.853	0.861	98.5	98.5
13C-PCB-54	9.29e+07	0.81 y	0.85	28:00	0.762	0.758	0.766	99.0	99.0
13C-PCB-70	1.02e+08	0.79 y	0.94	35:31	0.966	0.961	0.971	98.1	98.1
13C-PCB-77	9.74e+07	0.81 y	0.89	39:38	1.078	1.073	1.083	98.7	98.7
13C-PCB-80	1.05e+08	0.80 y	0.96	35:56	0.977	0.972	0.982	99.0	99.0
13C-PCB-81	9.10e+07	0.80 y	0.84	39:03	1.062	1.057	1.067	98.4	98.4
13C-PCB-95	5.18e+07	1.63 y	0.74	35:49	0.913	0.908	0.918	98.4	98.4
13C-PCB-97	4.86e+07	1.60 y	0.69	38:48	0.989	0.984	0.994	99.7	99.7
13C-PCB-101	5.42e+07	1.60 y	0.79	37:30	0.956	0.951	0.961	97.6	97.6
13C-PCB-104	6.97e+07	1.58 y	1.00	32:40	0.833	0.829	0.837	99.0	99.0
13C-PCB-105	8.01e+07	1.61 y	1.24	43:03	0.929	0.924	0.934	96.7	96.7
13C-PCB-114	7.88e+07	1.61 y	1.21	42:12	0.910	0.905	0.915	97.6	97.6
13C-PCB-118	7.31e+07	1.59 y	0.98	41:32	1.059	1.054	1.064	105	105
13C-PCB-123	7.08e+07	1.58 y	0.95	41:21	1.054	1.049	1.059	105	105
13C-PCB-126	7.48e+07	1.61 y	1.16	45:18	0.977	0.972	0.982	96.2	96.2
13C-PCB-127	8.64e+07	1.59 y	1.34	43:23	0.936	0.931	0.941	96.3	96.3
13C-PCB-138	6.82e+07	1.26 y	1.04	44:48	0.966	0.961	0.971	97.7	97.7
13C-PCB-141	7.08e+07	1.28 y	1.07	43:57	0.948	0.943	0.953	98.8	98.8
13C-PCB-153	7.34e+07	1.25 y	1.11	43:13	0.932	0.927	0.937	98.6	98.6
13C-PCB-155	5.85e+07	1.27 y	0.83	37:02	0.944	0.939	0.949	99.4	99.4
13C-PCB-156	8.09e+07	1.27 y	1.24	48:03	1.037	1.032	1.042	97.2	97.2
13C-PCB-157	8.55e+07	1.28 y	1.31	48:19	1.042	1.037	1.047	97.5	97.5
13C-PCB-159	7.80e+07	1.30 y	1.20	46:05	0.994	0.989	0.999	97.3	97.3
13C-PCB-167	8.57e+07	1.25 y	1.32	46:45	1.009	1.004	1.014	97.0	97.0
13C-PCB-169	7.92e+07	1.27 y	1.22	50:24	1.087	1.082	1.092	97.5	97.5
13C-PCB-170	3.58e+07	0.46 y	0.54	50:45	1.095	1.089	1.101	99.9	99.9
13C-PCB-180	4.49e+07	0.47 y	0.67	49:19	1.064	1.059	1.069	99.6	99.6
13C-PCB-188	6.18e+07	0.46 y	0.94	42:51	0.924	0.919	0.929	98.8	98.8
13C-PCB-189	4.90e+07	0.46 y	0.72	52:11	1.126	1.120	1.132	102	102
13C-PCB-194	4.68e+07	0.91 y	0.81	53:40	0.995	0.990	1.000	99.2	99.2
13C-PCB-202	5.62e+07	0.92 y	0.83	48:16	1.041	1.036	1.046	101	101
13C-PCB-206	4.05e+07	0.78 y	0.66	55:20	1.026	1.021	1.031	106	106
13C-PCB-208	6.67e+07	0.78 y	1.12	52:56	0.981	0.976	0.986	102	102
13C-PCB-209	3.70e+07	1.21 y	0.61	56:37	1.049	1.044	1.054	103	103

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.21e+08	0.80 y	1.01	37:49	1.028	1.023	1.033	109	109
13C-PCB-178	4.58e+07	0.46 y	0.63	45:38	0.984	0.979	0.989	109	109

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.21e+08	0.80 y	1.20	37:49	0.968	0.963	0.973	110	110
13C-PCB-178	4.58e+07	0.46 y	0.94	45:38	0.925	0.920	0.930	109	109

RS

Name	Resp	RA	RRF	RT	Conc
13C-PCB-15	1.35e+08	1.56 y	1.00	25:58	100
13C-PCB-31	1.25e+08	1.07 y	1.00	29:00	100
13C-PCB-60	1.10e+08	0.80 y	1.00	36:46	100
13C-PCB-111	7.08e+07	1.59 y	1.00	39:14	100
13C-PCB-128	6.69e+07	1.27 y	1.00	46:21	100
13C-PCB-205	5.82e+07	0.91 y	1.00	53:57	100

Analyst: DMS

Date: 6/23/14

Vista Analytical Laboratory - Injection Log Run file: 140620E1 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
140620E1	1	ST140620E1-1	DMS	20-JUN-14	09:31:44	NA	NA
140620E1	2	ST140620E1-2	DMS	20-JUN-14	10:35:42	NA	NA
140620E1	3	ST140620E1-3	DMS	20-JUN-14	11:39:47	NA	NA
140620E1	4	ST140620E1-4	DMS	20-JUN-14	12:43:46	ST140620E1-4	ST140620E1-8
140620E1	5	ST140620E1-5	DMS	20-JUN-14	13:47:50	NA	NA
140620E1	6	ST140620E1-6	DMS	20-JUN-14	14:51:49	NA	NA
140620E1	8	ST140620E1-7	DMS	20-JUN-14	15:57:15	NA	NA
140620E1	9	B4F0047-BS1	DMS	20-JUN-14	17:01:12	ST140620E1-4	ST140620E1-8
140620E1	10	SOLVENT BLANK	DMS	20-JUN-14	18:05:10	NA	NA
140620E1	11	B4F0047-BLK1	DMS	20-JUN-14	19:09:06	ST140620E1-4	ST140620E1-8
140620E1	12	1400406-01	DMS	20-JUN-14	20:13:09	ST140620E1-4	ST140620E1-8
140620E1	13	1400434-01	DMS	20-JUN-14	21:17:10	ST140620E1-4	NA
140620E1	14	1400434-02	DMS	20-JUN-14	22:21:13	ST140620E1-4	NA
140620E1	15	1400434-03	DMS	20-JUN-14	23:25:09	ST140620E1-4	NA
140620E1	16	SOLVENT BLANK	DMS	21-JUN-14	00:29:07	ST140620E1-4	NA
140620E1	17	ST140620E1-8	DMS	21-JUN-14	01:33:10	ST140620E1-4	ST140620E1-8

Initial Calibration RRF Summary (ICAL) Vista Analytical Laboratory
Run: 140623E2 Analyte: PCBNEW Cal: PCBVG8-6-23-14 Inst. ID: VG 8

Data filename: 140623E2

Name	Mean RRF	%RSD	Samp# 1 0.25 RRF#1	Samp# 2 1.0 RRF#2	Samp# 3 2.5 RRF#3	Samp# 4 50 RRF#4	Samp# 5 400 RRF#5	Samp# 6 750 RRF#6
PCB-1	1.19	8.06 %	1.04	1.13	1.18	1.23	1.29	1.29
PCB-2	1.18	7.35 %	1.05	1.12	1.16	1.23	1.28	1.26
PCB-3	1.43	5.11 %	1.34	1.37	1.37	1.46	1.49	1.51
PCB-4/10	1.57	2.14 %	1.53	1.54	1.55	1.57	1.60	1.62
PCB-7/9	1.21	2.44 %	1.22	1.17	1.19	1.21	1.22	1.26
PCB-6	1.30	2.87 %	1.25	1.28	1.31	1.31	1.34	1.35
PCB-5/8	1.15	2.31 %	1.13	1.12	1.15	1.15	1.16	1.19
PCB-14	1.11	3.28 %	1.05	1.09	1.11	1.14	1.12	1.15
PCB-11	1.09	2.23 %	1.05	1.09	1.07	1.10	1.09	1.12
PCB-12/13	1.19	2.18 %	1.17	1.17	1.18	1.20	1.20	1.24
PCB-15	1.28	3.09 %	1.29	1.22	1.26	1.28	1.30	1.34
PCB-19	1.04	3.02 %	1.04	1.01	1.01	1.04	1.07	1.09
PCB-30	1.71	4.54 %	1.67	1.64	1.66	1.69	1.79	1.83
PCB-18	0.78	5.11 %	0.71	0.79	0.79	0.80	0.78	0.82
PCB-17	0.92	2.36 %	0.90	0.90	0.94	0.93	0.91	0.95
PCB-24/27	1.19	3.36 %	1.13	1.17	1.19	1.20	1.18	1.25
PCB-16/32	0.94	1.56 %	0.92	0.93	0.94	0.94	0.94	0.96
PCB-34	1.14	3.58 %	1.15	1.19	1.13	1.09	1.16	1.09
PCB-23	1.28	4.96 %	1.38	1.28	1.22	1.23	1.24	1.33
PCB-29	1.08	3.94 %	1.11	1.13	1.09	1.06	1.01	1.06
PCB-26	1.21	4.37 %	1.25	1.23	1.27	1.18	1.12	1.19
PCB-25	1.26	7.07 %	1.39	1.25	1.30	1.27	1.25	1.11
PCB-31	1.28	11.62 %	1.50	1.29	1.36	1.24	1.27	1.05
PCB-28	1.71	5.40 %	1.81	1.76	1.78	1.70	1.63	1.57
PCB-20/21/33	1.08	5.41 %	1.15	1.07	1.11	1.08	1.11	0.98
PCB-22	1.21	8.00 %	1.36	1.24	1.17	1.23	1.06	1.18
PCB-36	1.14	11.01 %	1.36	1.16	1.11	1.18	1.05	0.99
PCB-39	1.12	11.88 %	1.31	1.12	1.09	1.20	0.92	1.05
PCB-38	1.20	13.44 %	1.44	1.25	1.24	1.23	1.03	1.00
PCB-35	1.23	8.27 %	1.40	1.18	1.31	1.18	1.15	1.17
PCB-37	1.23	8.23 %	1.38	1.30	1.25	1.19	1.12	1.13
PCB-54	1.10	3.74 %	1.18	1.06	1.10	1.10	1.09	1.09
PCB-50	0.88	6.30 %	0.97	0.83	0.92	0.88	0.86	0.83
PCB-53	1.06	1.53 %	1.06	1.05	1.06	1.08	1.09	1.05
PCB-51	0.99	4.28 %	0.95	1.06	0.97	0.98	0.96	1.02
PCB-45	0.86	5.46 %	0.95	0.85	0.83	0.89	0.84	0.82
PCB-46	0.85	4.52 %	0.90	0.89	0.82	0.83	0.83	0.81
PCB-52/69	1.28	3.90 %	1.23	1.29	1.27	1.28	1.25	1.37
PCB-73	1.35	5.47 %	1.44	1.30	1.43	1.38	1.30	1.27
PCB-43/49	0.99	4.35 %	1.07	1.01	0.96	0.97	0.95	1.02
PCB-47	1.06	4.72 %	1.12	1.10	1.07	1.04	1.04	0.98

DMS 6/24/14

MS 6/25/14

PCB-48/75	1.23	5.03 %	1.34	1.24	1.21	1.17	1.17	1.24
PCB-65	1.22	5.52 %	1.22	1.30	1.29	1.23	1.12	1.19
PCB-62	1.22	11.22 %	1.47	1.10	1.25	1.09	1.22	1.19
PCB-44	0.86	9.00 %	1.00	0.90	0.84	0.80	0.79	0.83
PCB-42/59	1.14	4.85 %	1.20	1.19	1.08	1.08	1.11	1.17
PCB-41/64/71/72	1.21	4.49 %	1.24	1.25	1.16	1.13	1.19	1.26
PCB-68	1.35	3.60 %	1.42	1.35	1.32	1.29	1.31	1.38
PCB-40	0.70	2.83 %	0.69	0.73	0.70	0.68	0.69	0.71
PCB-57	0.98	1.87 %	0.97	0.96	1.00	0.99	0.96	0.99
PCB-67	1.11	4.07 %	1.19	1.11	1.11	1.09	1.09	1.05
PCB-58	0.93	3.04 %	0.90	0.95	0.94	0.93	0.88	0.96

PCB-63	0.95	8.80 %	1.12	0.95	0.91	0.93	0.88	0.92
PCB-74	1.24	4.15 %	1.34	1.21	1.25	1.20	1.23	1.23
PCB-61/70	0.95	2.14 %	0.96	0.96	0.98	0.95	0.92	0.94
PCB-76/66	1.04	3.20 %	1.11	1.04	1.04	1.03	1.03	1.02
PCB-80	1.19	2.93 %	1.13	1.22	1.22	1.22	1.18	1.18
PCB-55	1.04	3.47 %	1.00	0.99	1.07	1.08	1.05	1.06
PCB-56/60	1.01	3.48 %	1.01	1.06	1.05	1.00	0.97	0.98
PCB-79	1.08	3.24 %	1.12	1.07	1.13	1.07	1.04	1.06
PCB-78	1.27	5.24 %	1.40	1.26	1.27	1.25	1.20	1.24
PCB-81	1.33	5.94 %	1.49	1.32	1.29	1.29	1.27	1.33
PCB-77	1.10	4.03 %	1.19	1.07	1.11	1.08	1.07	1.09
PCB-104	1.18	2.54 %	1.13	1.18	1.20	1.20	1.19	1.21
PCB-96	1.14	2.81 %	1.10	1.15	1.11	1.13	1.16	1.19
PCB-103	0.96	4.05 %	0.99	0.93	0.92	0.93	0.95	1.02
PCB-100	0.94	4.52 %	0.97	0.90	0.89	0.92	0.95	1.00
PCB-94	1.06	5.71 %	1.17	1.08	1.03	1.02	1.00	1.05
PCB-95/98/102	1.22	0.35 %	1.23	1.23	1.22	1.22	1.23	1.23
PCB-93	0.84	6.35 %	0.80	0.85	0.86	0.85	0.77	0.93
PCB-88/91	1.12	3.65 %	1.05	1.11	1.15	1.12	1.16	1.10
PCB-121	1.62	5.39 %	1.66	1.53	1.61	1.62	1.52	1.75
PCB-84/92	1.05	3.37 %	1.10	1.00	1.04	1.04	1.04	1.06
PCB-89	1.13	4.67 %	1.23	1.07	1.13	1.14	1.11	1.10
PCB-90/101	1.10	1.29 %	1.11	1.08	1.12	1.10	1.08	1.11
PCB-113	1.41	6.93 %	1.52	1.30	1.46	1.49	1.29	1.41
PCB-99	1.34	8.14 %	1.19	1.49	1.27	1.27	1.42	1.36
PCB-119	1.53	3.61 %	1.51	1.46	1.54	1.52	1.53	1.63
PCB-108/112	1.28	3.29 %	1.26	1.25	1.25	1.28	1.29	1.36
PCB-83	1.52	3.93 %	1.64	1.49	1.52	1.49	1.48	1.49
PCB-97	1.18	4.68 %	1.29	1.13	1.14	1.17	1.17	1.19
PCB-86	0.84	7.14 %	0.84	0.82	0.81	0.80	0.83	0.96
PCB-87/117/125	1.55	5.06 %	1.46	1.50	1.49	1.59	1.59	1.66
PCB-111/115	1.63	1.45 %	1.61	1.64	1.61	1.61	1.65	1.67
PCB-85/116	1.30	4.51 %	1.35	1.21	1.27	1.31	1.31	1.37
PCB-120	1.68	3.52 %	1.67	1.69	1.60	1.63	1.70	1.77
PCB-110	1.56	2.67 %	1.63	1.50	1.56	1.56	1.54	1.55
PCB-82	0.76	2.07 %	0.78	0.75	0.74	0.76	0.76	0.76
PCB-124	1.47	4.97 %	1.43	1.40	1.45	1.43	1.51	1.60
PCB-107/109	1.32	3.64 %	1.31	1.24	1.29	1.35	1.37	1.36
PCB-123	1.17	1.49 %	1.14	1.16	1.18	1.18	1.16	1.19
PCB-106/118	1.17	2.46 %	1.20	1.13	1.19	1.17	1.15	1.20
PCB-114	1.30	1.22 %	1.29	1.31	1.31	1.31	1.28	1.28
PCB-122	1.12	0.66 %	1.13	1.12	1.12	1.11	1.11	1.12
PCB-105	1.30	1.61 %	1.32	1.28	1.31	1.28	1.28	1.33
PCB-127	1.33	5.30 %	1.46	1.31	1.37	1.27	1.28	1.32
PCB-126	1.18	1.24 %	1.18	1.16	1.19	1.17	1.18	1.21
PCB-155	1.11	2.06 %	1.10	1.11	1.10	1.11	1.11	1.16
PCB-150	1.00	4.51 %	0.93	0.99	0.98	1.00	1.03	1.06
PCB-152	1.12	4.70 %	1.15	1.02	1.12	1.10	1.12	1.18
PCB-145	1.20	4.85 %	1.17	1.13	1.18	1.19	1.23	1.30
PCB-136	1.18	1.51 %	1.17	1.17	1.17	1.15	1.21	1.19

PCB-148	0.74	7.90 %	0.70	0.72	0.74	0.74	0.72	0.86
PCB-154	0.86	3.14 %	0.85	0.86	0.88	0.83	0.83	0.90
PCB-151	0.75	8.09 %	0.86	0.69	0.73	0.71	0.71	0.77
PCB-135	0.79	9.11 %	0.89	0.82	0.70	0.77	0.73	0.84
PCB-144	0.76	6.76 %	0.70	0.75	0.76	0.71	0.82	0.82
PCB-147	0.82	6.64 %	0.80	0.80	0.78	0.79	0.83	0.93
PCB-139/149	0.76	6.06 %	0.79	0.71	0.73	0.74	0.77	0.84
PCB-140	0.72	3.18 %	0.70	0.73	0.73	0.70	0.71	0.76
PCB-134/143	0.92	3.43 %	0.95	0.89	0.89	0.89	0.94	0.95
PCB-133/142	0.82	3.97 %	0.86	0.78	0.79	0.80	0.83	0.85
PCB-131	0.91	1.88 %	0.92	0.93	0.90	0.89	0.90	0.90

PCB-146/165	1.25	4.47 %	1.32	1.16	1.22	1.23	1.26	1.29
PCB-132/161	1.10	4.39 %	1.19	1.06	1.07	1.08	1.09	1.14
PCB-153	1.25	3.90 %	1.19	1.33	1.24	1.23	1.27	1.24
PCB-168	1.45	3.18 %	1.40	1.41	1.43	1.45	1.48	1.52
PCB-141	1.09	4.31 %	1.16	1.12	1.04	1.06	1.05	1.09
PCB-137	1.06	4.15 %	1.07	1.02	1.03	1.05	1.06	1.14
PCB-130	0.96	5.65 %	1.06	0.91	0.99	0.97	0.96	0.90
PCB-138/163/164	1.29	4.03 %	1.26	1.23	1.30	1.27	1.31	1.38
PCB-158/160	1.34	4.62 %	1.24	1.30	1.39	1.34	1.37	1.41
PCB-129	0.85	2.93 %	0.85	0.82	0.87	0.84	0.86	0.89
PCB-166	1.19	1.02 %	1.19	1.18	1.18	1.17	1.18	1.21
PCB-159	1.11	2.18 %	1.10	1.09	1.11	1.11	1.10	1.16
PCB-128/162	1.05	3.89 %	1.12	1.04	1.00	1.02	1.03	1.07
PCB-167	1.20	2.55 %	1.15	1.21	1.21	1.20	1.19	1.24
PCB-156	1.14	4.58 %	1.06	1.09	1.18	1.14	1.16	1.19
PCB-157	1.16	5.07 %	1.28	1.16	1.14	1.13	1.12	1.15
PCB-169	1.12	7.20 %	1.28	1.07	1.09	1.08	1.07	1.12
PCB-188	1.58	3.04 %	1.58	1.66	1.55	1.56	1.52	1.61
PCB-184	1.63	2.34 %	1.61	1.66	1.69	1.60	1.60	1.64
PCB-179	1.30	4.28 %	1.27	1.41	1.29	1.30	1.26	1.29
PCB-176	1.48	4.46 %	1.61	1.46	1.45	1.46	1.45	1.44
PCB-186	1.45	8.39 %	1.69	1.34	1.36	1.45	1.46	1.43
PCB-178	1.03	3.35 %	1.03	1.05	1.10	1.02	1.00	1.00
PCB-175	1.01	1.89 %	1.05	1.02	1.00	1.01	0.99	1.01
PCB-182/187	1.25	2.08 %	1.28	1.25	1.24	1.21	1.26	1.28
PCB-183	1.21	5.09 %	1.33	1.19	1.21	1.15	1.18	1.19
PCB-185	1.80	4.35 %	1.77	1.68	1.87	1.78	1.82	1.89
PCB-174	1.38	4.65 %	1.34	1.30	1.33	1.42	1.47	1.40
PCB-181	1.38	7.65 %	1.25	1.33	1.44	1.36	1.35	1.56
PCB-177	1.26	3.80 %	1.18	1.23	1.28	1.26	1.28	1.32
PCB-171	1.58	6.45 %	1.43	1.54	1.57	1.59	1.61	1.74
PCB-173	1.11	6.27 %	0.97	1.11	1.14	1.13	1.13	1.17
PCB-172	1.63	10.65 %	1.31	1.67	1.66	1.64	1.70	1.83
PCB-192	1.74	6.94 %	1.52	1.71	1.77	1.78	1.79	1.87
PCB-180	1.34	3.01 %	1.35	1.27	1.37	1.35	1.34	1.39
PCB-193	1.72	3.48 %	1.81	1.65	1.67	1.72	1.69	1.76
PCB-191	1.69	2.79 %	1.73	1.62	1.71	1.68	1.67	1.75
PCB-170	1.60	3.31 %	1.54	1.53	1.63	1.62	1.61	1.66
PCB-190	2.21	4.63 %	2.14	2.04	2.28	2.23	2.23	2.33
PCB-189	1.55	1.89 %	1.58	1.50	1.54	1.55	1.55	1.58
PCB-202	1.08	3.14 %	1.09	1.05	1.05	1.06	1.10	1.14
PCB-201	1.15	2.55 %	1.11	1.14	1.16	1.13	1.16	1.20
PCB-204	1.14	6.76 %	1.02	1.10	1.14	1.14	1.18	1.25
PCB-197	1.07	2.46 %	1.09	1.04	1.05	1.07	1.09	1.11
PCB-200	1.06	2.80 %	1.08	1.01	1.05	1.06	1.09	1.09
PCB-198	0.76	5.28 %	0.74	0.69	0.76	0.77	0.76	0.81
PCB-199	0.80	5.91 %	0.76	0.86	0.75	0.76	0.82	0.83
PCB-196/203	0.80	9.29 %	0.71	0.75	0.77	0.80	0.86	0.91
PCB-195	1.23	4.42 %	1.15	1.18	1.24	1.24	1.25	1.30
PCB-194	1.21	4.43 %	1.32	1.19	1.18	1.19	1.18	1.20

PCB-205	1.54	2.37 %	1.51	1.58	1.53	1.52	1.51	1.60
PCB-208	0.93	1.86 %	0.95	0.92	0.91	0.92	0.94	0.94
PCB-207	1.08	2.65 %	1.07	1.07	1.05	1.08	1.12	1.12
PCB-206	1.02	4.52 %	1.11	1.03	0.99	1.01	0.97	1.03
PCB-209	1.17	3.05 %	1.15	1.12	1.17	1.20	1.17	1.22
Total Mono-PCB	1.27	6.66 %	1.15	1.21	1.24	1.31	1.35	1.36
Total Di-PCB	1.21	2.10 %	1.19	1.18	1.20	1.21	1.22	1.25
Total Tri-PCB	1.10	2.76 %	1.06	1.08	1.09	1.10	1.10	1.15

Total Tri-PCB	1.21	6.05 %	1.33	1.23	1.24	1.21	1.15	1.12
Total Tetra-PCB	1.09	2.96 %	1.14	1.10	1.08	1.06	1.06	1.09
Total Penta-PCB	1.18	1.93 %	1.18	1.16	1.17	1.18	1.18	1.23
Total Penta-PCB	1.25	1.50 %	1.28	1.24	1.26	1.23	1.23	1.25
Total Hexa-PCB	0.90	3.60 %	0.90	0.87	0.88	0.88	0.90	0.96
Total Hexa-PCB	1.11	2.03 %	1.13	1.08	1.10	1.09	1.11	1.14
Total Hepta-PCB	1.42	1.47 %	1.41	1.40	1.42	1.41	1.41	1.46
Total Octa-PCB	0.96	4.13 %	0.92	0.93	0.95	0.96	0.99	1.03
Total Octa-PCB	1.33	1.46 %	1.33	1.31	1.32	1.32	1.32	1.36
Total Nona-PCB	1.01	1.96 %	1.03	1.00	0.98	1.00	1.02	1.03
Total Deca-PCB	1.17	3.05 %	1.15	1.12	1.17	1.20	1.17	1.22
13C-PCB-1	0.87	10.59 %	1.00	0.92	0.91	0.86	0.77	0.77
13C-PCB-3	0.91	9.90 %	1.04	0.97	0.96	0.86	0.81	0.83
13C-PCB-4	0.59	1.89 %	0.60	0.60	0.60	0.59	0.57	0.57
13C-PCB-9	0.90	1.45 %	0.90	0.91	0.91	0.89	0.88	0.88
13C-PCB-11	0.94	1.14 %	0.95	0.94	0.95	0.92	0.93	0.94
13C-PCB-19	0.53	8.18 %	0.58	0.56	0.56	0.53	0.48	0.48
13C-PCB-32	0.80	5.62 %	0.87	0.82	0.80	0.78	0.77	0.74
13C-PCB-28	0.93	4.96 %	0.92	0.91	0.93	0.92	0.89	1.02
13C-PCB-37	0.84	6.29 %	0.87	0.84	0.79	0.79	0.82	0.93
13C-PCB-54	0.97	0.69 %	0.96	0.96	0.97	0.98	0.97	0.98
13C-PCB-52	0.77	2.27 %	0.80	0.77	0.77	0.78	0.76	0.75
13C-PCB-47	0.81	2.56 %	0.85	0.80	0.81	0.82	0.81	0.78
13C-PCB-70	1.00	1.92 %	1.03	0.99	0.99	0.98	1.00	1.02
13C-PCB-80	1.03	1.60 %	1.05	1.02	1.02	1.01	1.04	1.05
13C-PCB-81	0.92	3.24 %	0.91	0.91	0.92	0.89	0.93	0.98
13C-PCB-77	0.94	2.93 %	0.95	0.93	0.92	0.91	0.98	0.97
13C-PCB-104	1.00	2.32 %	1.02	1.02	1.01	1.00	1.00	0.96
13C-PCB-95	0.74	1.65 %	0.74	0.73	0.73	0.74	0.77	0.74
13C-PCB-101	0.78	1.28 %	0.79	0.79	0.77	0.77	0.80	0.79
13C-PCB-97	0.70	1.19 %	0.72	0.71	0.71	0.69	0.71	0.70
13C-PCB-123	0.89	2.20 %	0.92	0.90	0.90	0.87	0.88	0.89
13C-PCB-118	0.96	2.66 %	0.96	0.97	0.95	0.92	0.98	0.99
13C-PCB-114	1.36	3.25 %	1.33	1.33	1.35	1.35	1.37	1.45
13C-PCB-105	1.37	3.32 %	1.34	1.34	1.36	1.32	1.38	1.45
13C-PCB-127	1.47	2.80 %	1.42	1.48	1.48	1.45	1.48	1.54
13C-PCB-126	1.31	1.41 %	1.29	1.30	1.31	1.31	1.30	1.34
13C-PCB-155	0.84	3.94 %	0.89	0.85	0.84	0.83	0.83	0.79
13C-PCB-153	1.15	1.31 %	1.15	1.16	1.15	1.14	1.12	1.15
13C-PCB-141	1.07	1.13 %	1.07	1.09	1.09	1.07	1.06	1.07
13C-PCB-138	1.10	0.94 %	1.10	1.11	1.09	1.11	1.09	1.09
13C-PCB-159	1.25	1.27 %	1.26	1.27	1.25	1.22	1.24	1.25
13C-PCB-167	1.35	1.38 %	1.36	1.37	1.35	1.33	1.37	1.33
13C-PCB-156	1.30	1.09 %	1.30	1.30	1.29	1.28	1.30	1.32
13C-PCB-157	1.36	1.30 %	1.37	1.36	1.35	1.33	1.36	1.38
13C-PCB-169	1.29	2.02 %	1.32	1.28	1.29	1.24	1.28	1.29
13C-PCB-188	0.92	2.20 %	0.95	0.90	0.91	0.92	0.91	0.91
13C-PCB-180	0.68	5.20 %	0.75	0.70	0.67	0.67	0.67	0.65
13C-PCB-170	0.54	5.16 %	0.59	0.56	0.53	0.53	0.53	0.52
13C-PCB-189	0.72	4.14 %	0.77	0.74	0.71	0.69	0.69	0.70
13C-PCB-202	0.84	6.77 %	0.94	0.87	0.83	0.81	0.80	0.78

13C-PCB-194	0.80	1.04 %	0.79	0.81	0.80	0.79	0.80	0.79
13C-PCB-208	1.08	1.09 %	1.09	1.09	1.09	1.08	1.07	1.07
13C-PCB-206	0.65	2.52 %	0.65	0.66	0.65	0.65	0.67	0.62
13C-PCB-209	0.61	3.41 %	0.62	0.62	0.63	0.59	0.63	0.58
13C-PCB-15	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-31	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-60	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-111	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-128	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-205	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00

13C-PCB-79	1.02	1.30 %	1.02	1.02	1.02	1.00	1.01	1.04
13C-PCB-178	0.61	3.59 %	0.64	0.63	0.61	0.62	0.60	0.58
13C-PCB-79	1.10	2.04 %	1.11	1.12	1.11	1.12	1.09	1.06
13C-PCB-178	0.90	2.70 %	0.86	0.90	0.92	0.93	0.89	0.90

Filename: 140623E2 S: 1 Acquired: 23-JUN-14 11:41:57
Run: 140623E2 Analyte: ICal: PCBVG8-6-23-14 Results: 140623E2
Sample text: ST140623E2-1 PCB CS0 14F1602

	Typ	Name	Amount	Resp	RA		RT	RF	RRF
1	Mono	PCB-1	0.25	4.81e+05	2.67	y	16:24	-	1.04
2	Mono	PCB-2	0.25	5.03e+05	3.50	y	18:40	-	1.05
3	Mono	PCB-3	0.25	6.38e+05	2.83	y	18:54	-	1.34
4	Di	PCB-4/10	1.00	1.68e+06	1.64	y	20:13	-	1.53
5	Di	PCB-7/9	1.00	2.03e+06	1.59	y	21:57	-	1.22
6	Di	PCB-6	0.50	1.04e+06	1.77	y	22:34	-	1.25
7	Di	PCB-5/8	1.00	1.87e+06	1.60	y	22:59	-	1.13
8	Di	PCB-14	0.50	9.15e+05	1.73	y	24:03	-	1.05
9	Di	PCB-11	0.50	9.14e+05	1.60	y	25:13	-	1.05
10	Di	PCB-12/13	1.00	2.03e+06	1.71	y	25:37	-	1.17
11	Di	PCB-15	0.50	1.13e+06	1.70	y	25:55	-	1.29
12	Tri	PCB-19	0.25	2.77e+05	1.03	y	24:14	-	1.04
13	Tri	PCB-30	0.25	4.46e+05	1.08	y	25:06	-	1.67
14	Tri	PCB-18	0.25	2.82e+05	1.17	y	25:50	-	0.71
15	Tri	PCB-17	0.25	3.59e+05	0.95	y	26:01	-	0.90
16	Tri	PCB-24/27	0.50	9.03e+05	1.12	y	26:35	-	1.13
17	Tri	PCB-16/32	0.50	7.35e+05	1.02	y	27:05	-	0.92
18	Tri	PCB-34	0.25	4.46e+05	1.14	y	27:51	-	1.15
19	Tri	PCB-23	0.25	5.33e+05	1.13	y	27:57	-	1.38
20	Tri	PCB-29	0.25	4.32e+05	1.02	y	28:12	-	1.11
21	Tri	PCB-26	0.25	4.83e+05	0.94	y	28:24	-	1.25
22	Tri	PCB-25	0.25	5.38e+05	0.92	y	28:33	-	1.39
23	Tri	PCB-31	0.25	5.81e+05	0.96	y	28:55	-	1.50
24	Tri	PCB-28	0.25	7.03e+05	1.16	y	29:01	-	1.81
25	Tri	PCB-20/21/33	0.75	1.33e+06	1.03	y	29:38	-	1.15
26	Tri	PCB-22	0.25	5.26e+05	1.01	y	30:04	-	1.36
27	Tri	PCB-36	0.25	4.96e+05	1.00	y	30:41	-	1.36
28	Tri	PCB-39	0.25	4.79e+05	1.13	y	31:08	-	1.31
29	Tri	PCB-38	0.25	5.28e+05	1.17	y	31:55	-	1.44
30	Tri	PCB-35	0.25	5.13e+05	0.95	y	32:25	-	1.40
31	Tri	PCB-37	0.25	5.06e+05	1.03	y	32:51	-	1.38
32	Tetra	PCB-54	0.25	3.83e+05	0.67	y	27:55	-	1.18
33	Tetra	PCB-50	0.25	3.14e+05	0.72	y	29:04	-	0.97
34	Tetra	PCB-53	0.25	2.86e+05	0.85	y	29:42	-	1.06
35	Tetra	PCB-51	0.25	2.57e+05	0.85	y	30:03	-	0.95
36	Tetra	PCB-45	0.25	2.55e+05	0.84	y	30:28	-	0.95
37	Tetra	PCB-46	0.25	2.42e+05	0.82	y	30:58	-	0.90
38	Tetra	PCB-52/69	0.50	6.62e+05	0.73	y	31:25	-	1.23
39	Tetra	PCB-73	0.25	3.88e+05	0.72	y	31:32	-	1.44
40	Tetra	PCB-43/49	0.50	5.73e+05	0.83	y	31:42	-	1.07

41	Tetra	PCB-47	0.25	3.18e+05	0.79 y	31:55	-	1.12
42	Tetra	PCB-48/75	0.50	7.61e+05	0.81 y	32:01	-	1.34
43	Tetra	PCB-65	0.25	3.48e+05	0.88 y	32:17	-	1.22
44	Tetra	PCB-62	0.25	4.17e+05	0.79 y	32:24	-	1.47
45	Tetra	PCB-44	0.25	2.83e+05	0.73 y	32:42	-	1.00
46	Tetra	PCB-42/59	0.50	6.84e+05	0.76 y	32:55	-	1.20
47	Tetra	PCB-41/64/71/72	1.00	1.41e+06	0.76 y	33:30	-	1.24
48	Tetra	PCB-68	0.25	4.05e+05	0.81 y	33:46	-	1.42
49	Tetra	PCB-40	0.25	1.96e+05	0.70 y	34:00	-	0.69
50	Tetra	PCB-57	0.25	3.33e+05	0.87 y	34:20	-	0.97
51	Tetra	PCB-67	0.25	4.09e+05	0.84 y	34:38	-	1.19

52	Tetra	PCB-58	0.25	3.10e+05	0.67 y	34:45	-	0.90
53	Tetra	PCB-63	0.25	3.84e+05	0.79 y	34:55	-	1.12
54	Tetra	PCB-74	0.25	4.62e+05	0.82 y	35:12	-	1.34
55	Tetra	PCB-61/70	0.50	6.62e+05	0.77 y	35:23	-	0.96
56	Tetra	PCB-76/66	0.50	7.64e+05	0.73 y	35:35	-	1.11
57	Tetra	PCB-80	0.25	4.01e+05	0.75 y	35:49	-	1.13
58	Tetra	PCB-55	0.25	3.54e+05	0.77 y	36:09	-	1.00
59	Tetra	PCB-56/60	0.50	7.14e+05	0.78 y	36:39	-	1.01
60	Tetra	PCB-79	0.25	3.94e+05	0.76 y	37:42	-	1.12
61	Tetra	PCB-78	0.25	4.28e+05	0.69 y	38:24	-	1.40
62	Tetra	PCB-81	0.25	4.55e+05	0.75 y	38:56	-	1.49
63	Tetra	PCB-77	0.25	3.79e+05	0.71 y	39:31	-	1.19
64	Penta	PCB-104	0.25	2.69e+05	1.51 y	32:34	-	1.13
65	Penta	PCB-96	0.25	2.62e+05	1.46 y	33:49	-	1.10
66	Penta	PCB-103	0.25	2.37e+05	1.63 y	34:21	-	0.99
67	Penta	PCB-100	0.25	2.32e+05	1.75 y	34:43	-	0.97
68	Penta	PCB-94	0.25	2.02e+05	1.62 y	35:10	-	1.17
69	Penta	PCB-95/98/102	0.75	6.38e+05	1.53 y	35:40	-	1.23
70	Penta	PCB-93	0.25	1.38e+05	1.68 y	35:48	-	0.80
71	Penta	PCB-88/91	0.50	3.63e+05	1.40 y	36:05	-	1.05
72	Penta	PCB-121	0.25	2.89e+05	1.74 y	36:10	-	1.66
73	Penta	PCB-84/92	0.50	4.09e+05	1.74 y	37:00	-	1.10
74	Penta	PCB-89	0.25	2.28e+05	1.35 y	37:12	-	1.23
75	Penta	PCB-90/101	0.50	4.11e+05	1.60 y	37:22	-	1.11
76	Penta	PCB-113	0.25	2.82e+05	1.48 y	37:38	-	1.52
77	Penta	PCB-99	0.25	2.22e+05	1.49 y	37:43	-	1.19
78	Penta	PCB-119	0.25	2.54e+05	1.74 y	38:11	-	1.51
79	Penta	PCB-108/112	0.50	4.22e+05	1.43 y	38:20	-	1.26
80	Penta	PCB-83	0.25	2.75e+05	1.61 y	38:30	-	1.64
81	Penta	PCB-97	0.25	2.16e+05	1.33 y	38:41	-	1.29
82	Penta	PCB-86	0.25	1.41e+05	1.33 y	38:50	-	0.84
83	Penta	PCB-87/117/125	0.75	7.34e+05	1.43 y	38:57	-	1.46
84	Penta	PCB-111/115	0.50	5.41e+05	1.52 y	39:08	-	1.61
85	Penta	PCB-85/116	0.50	4.52e+05	1.76 y	39:15	-	1.35
86	Penta	PCB-120	0.25	2.81e+05	1.77 y	39:29	-	1.67
87	Penta	PCB-110	0.25	2.74e+05	1.56 y	39:38	-	1.63
88	Penta	PCB-82	0.25	1.70e+05	1.65 y	40:16	-	0.78
89	Penta	PCB-124	0.25	3.10e+05	1.57 y	40:57	-	1.43
90	Penta	PCB-107/109	0.50	5.68e+05	1.59 y	41:05	-	1.31
91	Penta	PCB-123	0.25	2.47e+05	1.58 y	41:16	-	1.14
92	Penta	PCB-106/118	0.50	5.38e+05	1.47 y	41:27	-	1.20
93	Penta	PCB-114	0.25	3.15e+05	1.48 y	42:06	-	1.29
94	Penta	PCB-122	0.25	2.77e+05	1.67 y	42:14	-	1.13
95	Penta	PCB-105	0.25	3.23e+05	1.61 y	42:58	-	1.32
96	Penta	PCB-127	0.25	3.79e+05	1.59 y	43:18	-	1.46
97	Penta	PCB-126	0.25	2.78e+05	1.58 y	45:12	-	1.18
98	Hexa	PCB-155	0.25	2.29e+05	1.14 y	36:56	-	1.10
99	Hexa	PCB-150	0.25	1.94e+05	1.23 y	38:12	-	0.93
100	Hexa	PCB-152	0.25	2.40e+05	1.08 y	38:40	-	1.15
101	Hexa	PCB-145	0.25	2.45e+05	1.20 y	39:08	-	1.17

102	Hexa	PCB-136	0.25	2.45e+05	1.20 y	39:27	-	1.17
103	Hexa	PCB-148	0.25	1.45e+05	1.15 y	39:33	-	0.70
104	Hexa	PCB-154	0.25	1.77e+05	1.37 y	40:02	-	0.85
105	Hexa	PCB-151	0.25	1.79e+05	1.18 y	40:41	-	0.86
106	Hexa	PCB-135	0.25	1.86e+05	1.13 y	40:54	-	0.89
107	Hexa	PCB-144	0.25	1.47e+05	1.40 y	41:00	-	0.70
108	Hexa	PCB-147	0.25	1.67e+05	1.07 y	41:08	-	0.80
109	Hexa	PCB-139/149	0.50	3.29e+05	1.16 y	41:24	-	0.79
110	Hexa	PCB-140	0.25	1.47e+05	1.10 y	41:35	-	0.70
111	Hexa	PCB-134/143	0.50	4.01e+05	1.40 y	42:01	-	0.95
112	Hexa	PCB-133/142	0.50	3.65e+05	1.40 y	42:19	-	0.86

113	Hexa	PCB-131	0.25	1.96e+05	1.21	y	42:29	- 0.92
114	Hexa	PCB-146/165	0.50	5.59e+05	1.30	y	42:42	- 1.32
115	Hexa	PCB-132/161	0.50	5.02e+05	1.30	y	42:57	- 1.19
116	Hexa	PCB-153	0.25	2.51e+05	1.25	y	43:06	- 1.19
117	Hexa	PCB-168	0.25	2.97e+05	1.27	y	43:20	- 1.40
118	Hexa	PCB-141	0.25	2.26e+05	1.36	y	43:51	- 1.16
119	Hexa	PCB-137	0.25	2.10e+05	1.21	y	44:14	- 1.07
120	Hexa	PCB-130	0.25	2.06e+05	1.15	y	44:20	- 1.06
121	Hexa	PCB-138/163/164	0.75	7.59e+05	1.25	y	44:43	- 1.26
122	Hexa	PCB-158/160	0.50	5.00e+05	1.32	y	44:58	- 1.24
123	Hexa	PCB-129	0.25	1.71e+05	1.19	y	45:12	- 0.85
124	Hexa	PCB-166	0.25	2.74e+05	1.28	y	45:40	- 1.19
125	Hexa	PCB-159	0.25	2.53e+05	1.29	y	46:00	- 1.10
126	Hexa	PCB-128/162	0.50	5.15e+05	1.18	y	46:17	- 1.12
127	Hexa	PCB-167	0.25	2.86e+05	1.19	y	46:40	- 1.15
128	Hexa	PCB-156	0.25	2.51e+05	1.34	y	47:59	- 1.06
129	Hexa	PCB-157	0.25	3.21e+05	1.29	y	48:15	- 1.28
130	Hexa	PCB-169	0.25	3.10e+05	1.35	y	50:19	- 1.28
131	Hepta	PCB-188	0.25	2.77e+05	1.01	y	42:45	- 1.58
132	Hepta	PCB-184	0.25	2.81e+05	1.07	y	43:12	- 1.61
133	Hepta	PCB-179	0.25	2.22e+05	0.95	y	43:58	- 1.27
134	Hepta	PCB-176	0.25	2.82e+05	1.14	y	44:27	- 1.61
135	Hepta	PCB-186	0.25	2.95e+05	1.09	y	45:04	- 1.69
136	Hepta	PCB-178	0.25	1.81e+05	0.95	y	45:33	- 1.03
137	Hepta	PCB-175	0.25	1.83e+05	1.03	y	45:54	- 1.05
138	Hepta	PCB-182/187	0.50	4.48e+05	0.94	y	46:04	- 1.28
139	Hepta	PCB-183	0.25	2.33e+05	1.14	y	46:23	- 1.33
140	Hepta	PCB-185	0.25	2.42e+05	0.91	y	47:03	- 1.77
141	Hepta	PCB-174	0.25	1.84e+05	0.97	y	47:25	- 1.34
142	Hepta	PCB-181	0.25	1.71e+05	0.89	y	47:31	- 1.25
143	Hepta	PCB-177	0.25	1.62e+05	1.15	y	47:41	- 1.18
144	Hepta	PCB-171	0.25	1.96e+05	0.95	y	48:00	- 1.43
145	Hepta	PCB-173	0.25	1.34e+05	1.04	y	48:25	- 0.97
146	Hepta	PCB-172	0.25	1.79e+05	1.06	y	48:52	- 1.31
147	Hepta	PCB-192	0.25	2.08e+05	1.05	y	49:03	- 1.52
148	Hepta	PCB-180	0.25	1.86e+05	1.04	y	49:15	- 1.35
149	Hepta	PCB-193	0.25	2.48e+05	1.20	y	49:27	- 1.81
150	Hepta	PCB-191	0.25	2.37e+05	0.93	y	49:42	- 1.73
151	Hepta	PCB-170	0.25	1.67e+05	1.00	y	50:41	- 1.54
152	Hepta	PCB-190	0.25	2.32e+05	1.20	y	50:51	- 2.14
153	Hepta	PCB-189	0.25	2.21e+05	0.99	y	52:07	- 1.58
154	Octa	PCB-202	0.25	1.87e+05	0.90	y	48:11	- 1.09
155	Octa	PCB-201	0.25	1.91e+05	0.96	y	48:40	- 1.11
156	Octa	PCB-204	0.25	1.75e+05	0.89	y	48:50	- 1.02
157	Octa	PCB-197	0.25	1.86e+05	1.01	y	49:08	- 1.09
158	Octa	PCB-200	0.25	1.85e+05	1.02	y	49:59	- 1.08
159	Octa	PCB-198	0.25	1.27e+05	0.92	y	51:14	- 0.74
160	Octa	PCB-199	0.25	1.30e+05	0.87	y	51:21	- 0.76
161	Octa	PCB-196/203	0.50	2.45e+05	0.96	y	51:36	- 0.71
162	Octa	PCB-195	0.25	1.54e+05	0.94	y	52:45	- 1.15

163	Octa	PCB-194	0.25	1.77e+05	0.95	y	53:38	-	1.32
164	Octa	PCB-205	0.25	2.02e+05	0.89	y	53:56	-	1.51
165	Nona	PCB-208	0.25	1.76e+05	1.45	y	52:54	-	0.95
166	Nona	PCB-207	0.25	1.98e+05	1.16	y	53:13	-	1.07
167	Nona	PCB-206	0.25	1.21e+05	1.45	y	55:20	-	1.11
168	Deca	PCB-209	0.25	1.20e+05	1.18	y	56:37	-	1.15
169	Tot ╗	Total Mono-PCB	0.00	-	-	n	-	-	1.15
170	Tot ╗	Total Di-PCB	0.00	-	-	n	-	-	1.19

171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.06
172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.33
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.14
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.18
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.28
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.90
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.13
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.41
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.92
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.33
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	1.03
182	Tot ╗	Total Deca-PCB	0.25	1.20e+05	1.18	y	56:37	-	1.15
183	Mono╗	13C-PCB-1	100.00	1.84e+08	3.30	y	16:23	-	1.00
184	Mono╗	13C-PCB-3	100.00	1.91e+08	3.30	y	18:53	-	1.04
185	Di-IS	13C-PCB-4	100.00	1.10e+08	1.58	y	20:10	-	0.60
186	Di-IS	13C-PCB-9	100.00	1.66e+08	1.58	y	21:54	-	0.90
187	Di-IS	13C-PCB-11	100.00	1.74e+08	1.56	y	25:12	-	0.95
188	Tri-╗	13C-PCB-19	100.00	1.07e+08	1.08	y	24:13	-	0.58
189	Tri-╗	13C-PCB-32	100.00	1.60e+08	1.07	y	27:05	-	0.87
190	Tri-╗	13C-PCB-28	100.00	1.55e+08	1.06	y	29:00	-	0.92
191	Tri-╗	13C-PCB-37	100.00	1.46e+08	1.07	y	32:51	-	0.87
192	Tetr╗	13C-PCB-54	100.00	1.29e+08	0.80	y	27:54	-	0.96
193	Tetr╗	13C-PCB-52	100.00	1.08e+08	0.80	y	31:23	-	0.80
194	Tetr╗	13C-PCB-47	100.00	1.14e+08	0.80	y	31:53	-	0.85
195	Tetr╗	13C-PCB-70	100.00	1.38e+08	0.80	y	35:24	-	1.03
196	Tetr╗	13C-PCB-80	100.00	1.41e+08	0.80	y	35:48	-	1.05
197	Tetr╗	13C-PCB-81	100.00	1.22e+08	0.80	y	38:55	-	0.91
198	Tetr╗	13C-PCB-77	100.00	1.28e+08	0.80	y	39:31	-	0.95
199	Pent╗	13C-PCB-104	100.00	9.53e+07	1.55	y	32:33	-	1.02
200	Pent╗	13C-PCB-95	100.00	6.94e+07	1.58	y	35:42	-	0.74
201	Pent╗	13C-PCB-101	100.00	7.42e+07	1.61	y	37:22	-	0.79
202	Pent╗	13C-PCB-97	100.00	6.72e+07	1.62	y	38:40	-	0.72
203	Pent╗	13C-PCB-123	100.00	8.66e+07	1.59	y	41:15	-	0.92
204	Pent╗	13C-PCB-118	100.00	9.00e+07	1.59	y	41:25	-	0.96
205	Pent╗	13C-PCB-114	100.00	9.79e+07	1.62	y	42:05	-	1.33
206	Pent╗	13C-PCB-105	100.00	9.84e+07	1.62	y	42:57	-	1.34
207	Pent╗	13C-PCB-127	100.00	1.04e+08	1.60	y	43:17	-	1.42
208	Pent╗	13C-PCB-126	100.00	9.44e+07	1.59	y	45:11	-	1.29
209	Hexa╗	13C-PCB-155	100.00	8.36e+07	1.29	y	36:55	-	0.89
210	Hexa╗	13C-PCB-153	100.00	8.47e+07	1.26	y	43:06	-	1.15
211	Hexa╗	13C-PCB-141	100.00	7.81e+07	1.26	y	43:50	-	1.07
212	Hexa	13C-PCB-138	100.00	8.05e+07	1.27	y	44:41	-	1.10
213	Hexa╗	13C-PCB-159	100.00	9.21e+07	1.27	y	45:58	-	1.26
214	Hexa╗	13C-PCB-167	100.00	9.97e+07	1.26	y	46:40	-	1.36
215	Hexa╗	13C-PCB-156	100.00	9.50e+07	1.29	y	47:58	-	1.30
216	Hexa╗	13C-PCB-157	100.00	1.00e+08	1.32	y	48:14	-	1.37
217	Hexa╗	13C-PCB-169	100.00	9.71e+07	1.27	y	50:19	-	1.32
218	Hept╗	13C-PCB-188	100.00	7.00e+07	0.47	y	42:44	-	0.95
219	Hept╗	13C-PCB-180	100.00	5.49e+07	0.46	y	49:15	-	0.75
220	Hept╗	13C-PCB-170	100.00	4.33e+07	0.46	y	50:40	-	0.59
221	Hept╗	13C-PCB-189	100.00	5.61e+07	0.46	y	52:07	-	0.77

222	Octa¬	13C-PCB-202	100.00	6.86e+07	0.93	y	48:10	-	0.94
223	Octa¬	13C-PCB-194	100.00	5.37e+07	0.93	y	53:37	-	0.79
224	Nona¬	13C-PCB-208	100.00	7.40e+07	0.78	y	52:53	-	1.09
225	Nona¬	13C-PCB-206	100.00	4.38e+07	0.78	y	55:20	-	0.65
226	Deca¬	13C-PCB-209	100.00	4.18e+07	1.19	y	56:37	-	0.62
227	DI-RS	13C-PCB-15	100.00	1.84e+08	1.59	y	25:54	-	1.00
228	Tri-¬	13C-PCB-31	100.00	1.69e+08	1.07	y	28:54	-	1.00
229	Tetr¬	13C-PCB-60	100.00	1.34e+08	0.80	y	36:38	-	1.00
230	Penta	13C-PCB-111	100.00	9.38e+07	1.57	y	39:06	-	1.00
231	Hexa¬	13C-PCB-128	100.00	7.33e+07	1.25	y	46:16	-	1.00

232	Octa¶	13C-PCB-205	100.00	6.77e+07	0.90	y	53:55	-	1.00
233	CRS	13C-PCB-79	100.00	1.36e+08	0.80	y	37:41	-	1.02
234	CRS	13C-PCB-178	100.00	4.71e+07	0.46	y	45:32	-	0.64
235	PS	13C-PCB-79	100.00	1.36e+08	0.80	y	37:41	-	1.11
236	PS	13C-PCB-178	100.00	4.71e+07	0.46	y	45:32	-	0.86

Filename: 140623E2 S: 2 Acquired: 23-JUN-14 12:45:53
Run: 140623E2 Analyte: ICal: PCBVG8-6-23-14 Results: 140623E2
Sample text: ST140623E2-2 PCB CS1 14F1603

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	1.00	1.92e+06	3.07 y	16:24	-	1.13
2	Mono	PCB-2	1.00	2.00e+06	3.10 y	18:41	-	1.12
3	Mono	PCB-3	1.00	2.45e+06	2.99 y	18:54	-	1.37
4	Di	PCB-4/10	4.00	6.76e+06	1.61 y	20:14	-	1.54
5	Di	PCB-7/9	4.00	7.85e+06	1.66 y	21:57	-	1.17
6	Di	PCB-6	2.00	4.27e+06	1.72 y	22:35	-	1.28
7	Di	PCB-5/8	4.00	7.47e+06	1.65 y	22:59	-	1.12
8	Di	PCB-14	2.00	3.76e+06	1.62 y	24:03	-	1.09
9	Di	PCB-11	2.00	3.76e+06	1.61 y	25:13	-	1.09
10	Di	PCB-12/13	4.00	8.12e+06	1.62 y	25:37	-	1.17
11	Di	PCB-15	2.00	4.22e+06	1.64 y	25:55	-	1.22
12	Tri	PCB-19	1.00	1.05e+06	1.10 y	24:15	-	1.01
13	Tri	PCB-30	1.00	1.69e+06	1.10 y	25:06	-	1.64
14	Tri	PCB-18	1.00	1.19e+06	1.03 y	25:51	-	0.79
15	Tri	PCB-17	1.00	1.36e+06	1.06 y	26:01	-	0.90
16	Tri	PCB-24/27	2.00	3.54e+06	1.03 y	26:35	-	1.17
17	Tri	PCB-16/32	2.00	2.81e+06	1.04 y	27:05	-	0.93
18	Tri	PCB-34	1.00	1.77e+06	1.02 y	27:52	-	1.19
19	Tri	PCB-23	1.00	1.91e+06	1.05 y	27:58	-	1.28
20	Tri	PCB-29	1.00	1.69e+06	1.03 y	28:13	-	1.13
21	Tri	PCB-26	1.00	1.83e+06	1.06 y	28:25	-	1.23
22	Tri	PCB-25	1.00	1.86e+06	1.03 y	28:35	-	1.25
23	Tri	PCB-31	1.00	1.92e+06	1.03 y	28:55	-	1.29
24	Tri	PCB-28	1.00	2.63e+06	1.05 y	29:02	-	1.76
25	Tri	PCB-20/21/33	3.00	4.78e+06	1.06 y	29:38	-	1.07
26	Tri	PCB-22	1.00	1.85e+06	1.03 y	30:05	-	1.24
27	Tri	PCB-36	1.00	1.58e+06	0.96 y	30:41	-	1.16
28	Tri	PCB-39	1.00	1.53e+06	1.03 y	31:09	-	1.12
29	Tri	PCB-38	1.00	1.71e+06	0.96 y	31:56	-	1.25
30	Tri	PCB-35	1.00	1.61e+06	1.02 y	32:27	-	1.18
31	Tri	PCB-37	1.00	1.78e+06	0.99 y	32:53	-	1.30
32	Tetra	PCB-54	1.00	1.33e+06	0.85 y	27:56	-	1.06
33	Tetra	PCB-50	1.00	1.04e+06	0.83 y	29:04	-	0.83
34	Tetra	PCB-53	1.00	1.06e+06	0.75 y	29:43	-	1.05
35	Tetra	PCB-51	1.00	1.07e+06	0.77 y	30:03	-	1.06
36	Tetra	PCB-45	1.00	8.56e+05	0.81 y	30:29	-	0.85
37	Tetra	PCB-46	1.00	8.89e+05	0.82 y	30:58	-	0.89
38	Tetra	PCB-52/69	2.00	2.58e+06	0.75 y	31:26	-	1.29
39	Tetra	PCB-73	1.00	1.30e+06	0.82 y	31:33	-	1.30
40	Tetra	PCB-43/49	2.00	2.01e+06	0.79 y	31:43	-	1.01
41	Tetra	PCB-47	1.00	1.15e+06	0.76 y	31:55	-	1.10

42	Tetra	PCB-48/75	2.00	2.58e+06	0.79 y	32:02	-	1.24
43	Tetra	PCB-65	1.00	1.36e+06	0.70 y	32:18	-	1.30
44	Tetra	PCB-62	1.00	1.15e+06	0.75 y	32:25	-	1.10
45	Tetra	PCB-44	1.00	9.43e+05	0.71 y	32:42	-	0.90
46	Tetra	PCB-42/59	2.00	2.48e+06	0.73 y	32:56	-	1.19
47	Tetra	PCB-41/64/71/72	4.00	5.23e+06	0.81 y	33:31	-	1.25
48	Tetra	PCB-68	1.00	1.41e+06	0.83 y	33:46	-	1.35
49	Tetra	PCB-40	1.00	7.66e+05	0.68 y	34:00	-	0.73
50	Tetra	PCB-57	1.00	1.23e+06	0.73 y	34:21	-	0.96
51	Tetra	PCB-67	1.00	1.43e+06	0.70 y	34:39	-	1.11
52	Tetra	PCB-58	1.00	1.22e+06	0.81 y	34:46	-	0.95

53	Tetra	PCB-63	1.00	1.23e+06	0.72 y	34:55	-	0.95
54	Tetra	PCB-74	1.00	1.56e+06	0.79 y	35:12	-	1.21
55	Tetra	PCB-61/70	2.00	2.47e+06	0.75 y	35:23	-	0.96
56	Tetra	PCB-76/66	2.00	2.68e+06	0.76 y	35:36	-	1.04
57	Tetra	PCB-80	1.00	1.62e+06	0.71 y	35:50	-	1.22
58	Tetra	PCB-55	1.00	1.32e+06	0.77 y	36:09	-	0.99
59	Tetra	PCB-56/60	2.00	2.80e+06	0.73 y	36:39	-	1.06
60	Tetra	PCB-79	1.00	1.42e+06	0.79 y	37:42	-	1.07
61	Tetra	PCB-78	1.00	1.49e+06	0.78 y	38:25	-	1.26
62	Tetra	PCB-81	1.00	1.56e+06	0.81 y	38:56	-	1.32
63	Tetra	PCB-77	1.00	1.28e+06	0.77 y	39:32	-	1.07
64	Penta	PCB-104	1.00	1.07e+06	1.55 y	32:35	-	1.18
65	Penta	PCB-96	1.00	1.05e+06	1.49 y	33:50	-	1.15
66	Penta	PCB-103	1.00	8.47e+05	1.59 y	34:21	-	0.93
67	Penta	PCB-100	1.00	8.14e+05	1.70 y	34:42	-	0.90
68	Penta	PCB-94	1.00	7.01e+05	1.52 y	35:10	-	1.08
69	Penta	PCB-95/98/102	3.00	2.40e+06	1.45 y	35:40	-	1.23
70	Penta	PCB-93	1.00	5.56e+05	1.74 y	35:48	-	0.85
71	Penta	PCB-88/91	2.00	1.45e+06	1.50 y	36:05	-	1.11
72	Penta	PCB-121	1.00	9.97e+05	1.56 y	36:12	-	1.53
73	Penta	PCB-84/92	2.00	1.39e+06	1.53 y	37:00	-	1.00
74	Penta	PCB-89	1.00	7.51e+05	1.52 y	37:13	-	1.07
75	Penta	PCB-90/101	2.00	1.52e+06	1.60 y	37:23	-	1.08
76	Penta	PCB-113	1.00	9.10e+05	1.52 y	37:37	-	1.30
77	Penta	PCB-99	1.00	1.04e+06	1.45 y	37:42	-	1.49
78	Penta	PCB-119	1.00	9.16e+05	1.51 y	38:11	-	1.46
79	Penta	PCB-108/112	2.00	1.56e+06	1.62 y	38:20	-	1.25
80	Penta	PCB-83	1.00	9.33e+05	1.71 y	38:30	-	1.49
81	Penta	PCB-97	1.00	7.11e+05	1.49 y	38:42	-	1.13
82	Penta	PCB-86	1.00	5.14e+05	1.35 y	38:51	-	0.82
83	Penta	PCB-87/117/125	3.00	2.83e+06	1.57 y	38:57	-	1.50
84	Penta	PCB-111/115	2.00	2.06e+06	1.59 y	39:08	-	1.64
85	Penta	PCB-85/116	2.00	1.52e+06	1.65 y	39:16	-	1.21
86	Penta	PCB-120	1.00	1.06e+06	1.54 y	39:29	-	1.69
87	Penta	PCB-110	1.00	9.43e+05	1.47 y	39:38	-	1.50
88	Penta	PCB-82	1.00	6.04e+05	1.60 y	40:16	-	0.75
89	Penta	PCB-124	1.00	1.13e+06	1.50 y	40:56	-	1.40
90	Penta	PCB-107/109	2.00	2.00e+06	1.63 y	41:05	-	1.24
91	Penta	PCB-123	1.00	9.34e+05	1.64 y	41:15	-	1.16
92	Penta	PCB-106/118	2.00	1.94e+06	1.53 y	41:27	-	1.13
93	Penta	PCB-114	1.00	1.25e+06	1.49 y	42:06	-	1.31
94	Penta	PCB-122	1.00	1.07e+06	1.65 y	42:14	-	1.12
95	Penta	PCB-105	1.00	1.23e+06	1.59 y	42:58	-	1.28
96	Penta	PCB-127	1.00	1.38e+06	1.64 y	43:18	-	1.31
97	Penta	PCB-126	1.00	1.08e+06	1.55 y	45:12	-	1.16
98	Hexa	PCB-155	1.00	8.37e+05	1.10 y	36:56	-	1.11
99	Hexa	PCB-150	1.00	7.52e+05	1.14 y	38:12	-	0.99
100	Hexa	PCB-152	1.00	7.75e+05	1.29 y	38:40	-	1.02
101	Hexa	PCB-145	1.00	8.56e+05	1.22 y	39:08	-	1.13
102	Hexa	PCB-136	1.00	8.87e+05	1.27 y	39:27	-	1.17

103	Hexa	PCB-148	1.00	5.42e+05	1.31 y	39:33	-	0.72
104	Hexa	PCB-154	1.00	6.51e+05	1.13 y	40:02	-	0.86
105	Hexa	PCB-151	1.00	5.25e+05	1.34 y	40:41	-	0.69
106	Hexa	PCB-135	1.00	6.20e+05	1.16 y	40:53	-	0.82
107	Hexa	PCB-144	1.00	5.68e+05	1.14 y	41:00	-	0.75
108	Hexa	PCB-147	1.00	6.03e+05	1.39 y	41:08	-	0.80
109	Hexa	PCB-139/149	2.00	1.07e+06	1.35 y	41:24	-	0.71
110	Hexa	PCB-140	1.00	5.54e+05	1.12 y	41:35	-	0.73
111	Hexa	PCB-134/143	2.00	1.48e+06	1.32 y	42:02	-	0.89
112	Hexa	PCB-133/142	2.00	1.31e+06	1.23 y	42:19	-	0.78
113	Hexa	PCB-131	1.00	7.77e+05	1.25 y	42:29	-	0.93

114	Hexa	PCB-146/165	2.00	1.94e+06	1.26	y	42:42	- 1.16
115	Hexa	PCB-132/161	2.00	1.76e+06	1.27	y	42:57	- 1.06
116	Hexa	PCB-153	1.00	1.11e+06	1.29	y	43:06	- 1.33
117	Hexa	PCB-168	1.00	1.18e+06	1.25	y	43:19	- 1.41
118	Hexa	PCB-141	1.00	8.76e+05	1.23	y	43:51	- 1.12
119	Hexa	PCB-137	1.00	7.99e+05	1.23	y	44:15	- 1.02
120	Hexa	PCB-130	1.00	7.15e+05	1.22	y	44:20	- 0.91
121	Hexa	PCB-138/163/164	3.00	2.94e+06	1.28	y	44:43	- 1.23
122	Hexa	PCB-158/160	2.00	2.07e+06	1.39	y	44:58	- 1.30
123	Hexa	PCB-129	1.00	6.52e+05	1.17	y	45:12	- 0.82
124	Hexa	PCB-166	1.00	1.08e+06	1.25	y	45:40	- 1.18
125	Hexa	PCB-159	1.00	9.95e+05	1.26	y	46:00	- 1.09
126	Hexa	PCB-128/162	2.00	1.90e+06	1.35	y	46:17	- 1.04
127	Hexa	PCB-167	1.00	1.19e+06	1.26	y	46:40	- 1.21
128	Hexa	PCB-156	1.00	1.01e+06	1.15	y	47:59	- 1.09
129	Hexa	PCB-157	1.00	1.13e+06	1.24	y	48:15	- 1.16
130	Hexa	PCB-169	1.00	9.84e+05	1.29	y	50:19	- 1.07
131	Hepta	PCB-188	1.00	1.07e+06	1.08	y	42:44	- 1.66
132	Hepta	PCB-184	1.00	1.07e+06	1.01	y	43:12	- 1.66
133	Hepta	PCB-179	1.00	9.11e+05	1.11	y	43:58	- 1.41
134	Hepta	PCB-176	1.00	9.38e+05	1.19	y	44:27	- 1.46
135	Hepta	PCB-186	1.00	8.65e+05	1.07	y	45:04	- 1.34
136	Hepta	PCB-178	1.00	6.76e+05	1.13	y	45:32	- 1.05
137	Hepta	PCB-175	1.00	6.57e+05	1.07	y	45:54	- 1.02
138	Hepta	PCB-182/187	2.00	1.61e+06	1.10	y	46:04	- 1.25
139	Hepta	PCB-183	1.00	7.65e+05	1.02	y	46:23	- 1.19
140	Hepta	PCB-185	1.00	8.43e+05	0.96	y	47:03	- 1.68
141	Hepta	PCB-174	1.00	6.52e+05	1.02	y	47:25	- 1.30
142	Hepta	PCB-181	1.00	6.66e+05	1.08	y	47:31	- 1.33
143	Hepta	PCB-177	1.00	6.16e+05	1.08	y	47:42	- 1.23
144	Hepta	PCB-171	1.00	7.73e+05	0.96	y	47:59	- 1.54
145	Hepta	PCB-173	1.00	5.56e+05	0.90	y	48:25	- 1.11
146	Hepta	PCB-172	1.00	8.39e+05	1.07	y	48:52	- 1.67
147	Hepta	PCB-192	1.00	8.60e+05	1.06	y	49:04	- 1.71
148	Hepta	PCB-180	1.00	6.37e+05	0.90	y	49:15	- 1.27
149	Hepta	PCB-193	1.00	8.28e+05	1.14	y	49:27	- 1.65
150	Hepta	PCB-191	1.00	8.11e+05	1.07	y	49:42	- 1.62
151	Hepta	PCB-170	1.00	6.14e+05	0.96	y	50:41	- 1.53
152	Hepta	PCB-190	1.00	8.22e+05	1.03	y	50:50	- 2.04
153	Hepta	PCB-189	1.00	7.94e+05	1.03	y	52:07	- 1.50
154	Octa	PCB-202	1.00	6.55e+05	1.00	y	48:12	- 1.05
155	Octa	PCB-201	1.00	7.12e+05	0.86	y	48:42	- 1.14
156	Octa	PCB-204	1.00	6.82e+05	0.95	y	48:50	- 1.10
157	Octa	PCB-197	1.00	6.44e+05	0.88	y	49:08	- 1.04
158	Octa	PCB-200	1.00	6.28e+05	0.92	y	49:59	- 1.01
159	Octa	PCB-198	1.00	4.28e+05	0.78	y	51:15	- 0.69
160	Octa	PCB-199	1.00	5.35e+05	0.89	y	51:21	- 0.86
161	Octa	PCB-196/203	2.00	9.29e+05	0.93	y	51:37	- 0.75
162	Octa	PCB-195	1.00	6.48e+05	0.85	y	52:45	- 1.18
163	Octa	PCB-194	1.00	6.56e+05	0.96	y	53:38	- 1.19

164	Octa	PCB-205	1.00	8.69e+05	0.98	y	53:56	-	1.58
165	Nona	PCB-208	1.00	6.83e+05	1.14	y	52:54	-	0.92
166	Nona	PCB-207	1.00	7.94e+05	1.46	y	53:12	-	1.07
167	Nona	PCB-206	1.00	4.60e+05	1.50	y	55:20	-	1.03
168	Deca	PCB-209	1.00	4.74e+05	1.30	y	56:37	-	1.12
169	Tot ₫	Total Mono-PCB	0.00	-	-	n	-	-	1.21
170	Tot ₫	Total Di-PCB	0.00	-	-	n	-	-	1.18
171	Tot ₫	Total Tri-PCB	0.00	-	-	n	-	-	1.08

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.23
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.10
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.16
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.24
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.87
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.08
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.40
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.93
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.31
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	1.00
182	Tot ╗	Total Deca-PCB	1.00	4.74e+05	1.30	y	56:37	-	1.12
183	Mono╗	13C-PCB-1	100.00	1.69e+08	3.26	y	16:23	-	0.92
184	Mono╗	13C-PCB-3	100.00	1.78e+08	3.34	y	18:53	-	0.97
185	Di-IS	13C-PCB-4	100.00	1.10e+08	1.59	y	20:11	-	0.60
186	Di-IS	13C-PCB-9	100.00	1.67e+08	1.58	y	21:54	-	0.91
187	Di-IS	13C-PCB-11	100.00	1.73e+08	1.56	y	25:13	-	0.94
188	Tri-╗	13C-PCB-19	100.00	1.03e+08	1.08	y	24:13	-	0.56
189	Tri-╗	13C-PCB-32	100.00	1.51e+08	1.08	y	27:05	-	0.82
190	Tri-╗	13C-PCB-28	100.00	1.49e+08	1.05	y	29:01	-	0.91
191	Tri-╗	13C-PCB-37	100.00	1.36e+08	1.07	y	32:51	-	0.84
192	Tetr╗	13C-PCB-54	100.00	1.25e+08	0.80	y	27:55	-	0.96
193	Tetr╗	13C-PCB-52	100.00	1.00e+08	0.79	y	31:24	-	0.77
194	Tetr╗	13C-PCB-47	100.00	1.04e+08	0.79	y	31:54	-	0.80
195	Tetr╗	13C-PCB-70	100.00	1.29e+08	0.80	y	35:24	-	0.99
196	Tetr╗	13C-PCB-80	100.00	1.33e+08	0.79	y	35:49	-	1.02
197	Tetr╗	13C-PCB-81	100.00	1.18e+08	0.79	y	38:55	-	0.91
198	Tetr╗	13C-PCB-77	100.00	1.20e+08	0.79	y	39:30	-	0.93
199	Pent╗	13C-PCB-104	100.00	9.09e+07	1.57	y	32:33	-	1.02
200	Pent╗	13C-PCB-95	100.00	6.52e+07	1.56	y	35:42	-	0.73
201	Pent╗	13C-PCB-101	100.00	7.00e+07	1.57	y	37:22	-	0.79
202	Pent╗	13C-PCB-97	100.00	6.28e+07	1.60	y	38:40	-	0.71
203	Pent╗	13C-PCB-123	100.00	8.04e+07	1.57	y	41:15	-	0.90
204	Pent╗	13C-PCB-118	100.00	8.60e+07	1.62	y	41:25	-	0.97
205	Pent╗	13C-PCB-114	100.00	9.51e+07	1.64	y	42:05	-	1.33
206	Pent╗	13C-PCB-105	100.00	9.62e+07	1.60	y	42:57	-	1.34
207	Pent╗	13C-PCB-127	100.00	1.06e+08	1.61	y	43:17	-	1.48
208	Pent╗	13C-PCB-126	100.00	9.30e+07	1.60	y	45:11	-	1.30
209	Hexa╗	13C-PCB-155	100.00	7.57e+07	1.27	y	36:55	-	0.85
210	Hexa╗	13C-PCB-153	100.00	8.33e+07	1.30	y	43:06	-	1.16
211	Hexa╗	13C-PCB-141	100.00	7.82e+07	1.28	y	43:50	-	1.09
212	Hexa	13C-PCB-138	100.00	7.98e+07	1.28	y	44:41	-	1.11
213	Hexa╗	13C-PCB-159	100.00	9.11e+07	1.28	y	45:59	-	1.27
214	Hexa╗	13C-PCB-167	100.00	9.84e+07	1.27	y	46:40	-	1.37
215	Hexa╗	13C-PCB-156	100.00	9.34e+07	1.28	y	47:58	-	1.30
216	Hexa╗	13C-PCB-157	100.00	9.73e+07	1.29	y	48:14	-	1.36
217	Hexa╗	13C-PCB-169	100.00	9.18e+07	1.27	y	50:19	-	1.28
218	Hept╗	13C-PCB-188	100.00	6.44e+07	0.46	y	42:44	-	0.90
219	Hept╗	13C-PCB-180	100.00	5.02e+07	0.46	y	49:15	-	0.70
220	Hept╗	13C-PCB-170	100.00	4.02e+07	0.48	y	50:40	-	0.56
221	Hept╗	13C-PCB-189	100.00	5.29e+07	0.47	y	52:06	-	0.74
222	Octa╗	13C-PCB-202	100.00	6.22e+07	0.90	y	48:10	-	0.87

223	Octa¬	13C-PCB-194	100.00	5.51e+07	0.92 y	53:37	-	0.81
224	Nona¬	13C-PCB-208	100.00	7.43e+07	0.77 y	52:53	-	1.09
225	Nona¬	13C-PCB-206	100.00	4.47e+07	0.79 y	55:19	-	0.66
226	Deca¬	13C-PCB-209	100.00	4.24e+07	1.24 y	56:36	-	0.62
227	DI-RS	13C-PCB-15	100.00	1.84e+08	1.57 y	25:54	-	1.00
228	Tri-¬	13C-PCB-31	100.00	1.63e+08	1.05 y	28:54	-	1.00
229	Tetr¬	13C-PCB-60	100.00	1.30e+08	0.80 y	36:39	-	1.00
230	Penta	13C-PCB-111	100.00	8.89e+07	1.60 y	39:06	-	1.00
231	Hexa¬	13C-PCB-128	100.00	7.17e+07	1.30 y	46:16	-	1.00
232	Octa¬	13C-PCB-205	100.00	6.82e+07	0.91 y	53:55	-	1.00

233	CRS		13C-PCB-79	100.00	1.32e+08	0.79 y	37:41	-	1.02
234	CRS		13C-PCB-178	100.00	4.49e+07	0.45 y	45:32	-	0.63
235	PS		13C-PCB-79	100.00	1.32e+08	0.79 y	37:41	-	1.12
236	PS		13C-PCB-178	100.00	4.49e+07	0.45 y	45:32	-	0.90

Filename: 140623E2 S: 3 Acquired: 23-JUN-14 13:49:52
Run: 140623E2 Analyte: ICal: PCBVG8-6-23-14 Results: 140623E2
Sample text: ST140623E2-3 PCB CS2 14F1604

	Typ	Name	Amount	Resp	RA		RT	RF	RRF
1	Mono	PCB-1	2.50	4.75e+06	3.02	y	16:24	-	1.18
2	Mono	PCB-2	2.50	4.92e+06	2.98	y	18:41	-	1.16
3	Mono	PCB-3	2.50	5.82e+06	3.06	y	18:54	-	1.37
4	Di	PCB-4/10	10.00	1.63e+07	1.69	y	20:13	-	1.55
5	Di	PCB-7/9	10.00	1.91e+07	1.66	y	21:57	-	1.19
6	Di	PCB-6	5.00	1.05e+07	1.63	y	22:35	-	1.31
7	Di	PCB-5/8	10.00	1.85e+07	1.65	y	22:59	-	1.15
8	Di	PCB-14	5.00	9.28e+06	1.67	y	24:03	-	1.11
9	Di	PCB-11	5.00	8.97e+06	1.69	y	25:13	-	1.07
10	Di	PCB-12/13	10.00	1.98e+07	1.68	y	25:37	-	1.18
11	Di	PCB-15	5.00	1.05e+07	1.70	y	25:55	-	1.26
12	Tri	PCB-19	2.50	2.48e+06	1.07	y	24:14	-	1.01
13	Tri	PCB-30	2.50	4.07e+06	1.08	y	25:06	-	1.66
14	Tri	PCB-18	2.50	2.77e+06	1.08	y	25:50	-	0.79
15	Tri	PCB-17	2.50	3.32e+06	1.02	y	26:01	-	0.94
16	Tri	PCB-24/27	5.00	8.36e+06	1.04	y	26:35	-	1.19
17	Tri	PCB-16/32	5.00	6.64e+06	1.06	y	27:05	-	0.94
18	Tri	PCB-34	2.50	4.10e+06	1.00	y	27:52	-	1.13
19	Tri	PCB-23	2.50	4.41e+06	1.05	y	27:58	-	1.22
20	Tri	PCB-29	2.50	3.95e+06	1.06	y	28:13	-	1.09
21	Tri	PCB-26	2.50	4.58e+06	1.04	y	28:24	-	1.27
22	Tri	PCB-25	2.50	4.69e+06	1.09	y	28:35	-	1.30
23	Tri	PCB-31	2.50	4.94e+06	1.06	y	28:55	-	1.36
24	Tri	PCB-28	2.50	6.44e+06	1.05	y	29:02	-	1.78
25	Tri	PCB-20/21/33	7.50	1.21e+07	1.07	y	29:38	-	1.11
26	Tri	PCB-22	2.50	4.25e+06	1.06	y	30:04	-	1.17
27	Tri	PCB-36	2.50	3.41e+06	1.03	y	30:41	-	1.11
28	Tri	PCB-39	2.50	3.35e+06	1.04	y	31:09	-	1.09
29	Tri	PCB-38	2.50	3.81e+06	1.11	y	31:56	-	1.24
30	Tri	PCB-35	2.50	4.04e+06	1.02	y	32:26	-	1.31
31	Tri	PCB-37	2.50	3.84e+06	0.98	y	32:53	-	1.25
32	Tetra	PCB-54	2.50	3.28e+06	0.79	y	27:56	-	1.10
33	Tetra	PCB-50	2.50	2.75e+06	0.77	y	29:04	-	0.92
34	Tetra	PCB-53	2.50	2.52e+06	0.76	y	29:43	-	1.06
35	Tetra	PCB-51	2.50	2.31e+06	0.79	y	30:03	-	0.97
36	Tetra	PCB-45	2.50	1.97e+06	0.72	y	30:29	-	0.83
37	Tetra	PCB-46	2.50	1.95e+06	0.75	y	30:58	-	0.82
38	Tetra	PCB-52/69	5.00	6.07e+06	0.78	y	31:26	-	1.27
39	Tetra	PCB-73	2.50	3.40e+06	0.77	y	31:33	-	1.43
40	Tetra	PCB-43/49	5.00	4.57e+06	0.77	y	31:43	-	0.96
41	Tetra	PCB-47	2.50	2.67e+06	0.72	y	31:55	-	1.07

42	Tetra	PCB-48/75	5.00	6.04e+06	0.80 y	32:01	-	1.21
43	Tetra	PCB-65	2.50	3.21e+06	0.86 y	32:18	-	1.29
44	Tetra	PCB-62	2.50	3.13e+06	0.70 y	32:25	-	1.25
45	Tetra	PCB-44	2.50	2.09e+06	0.75 y	32:42	-	0.84
46	Tetra	PCB-42/59	5.00	5.38e+06	0.76 y	32:56	-	1.08
47	Tetra	PCB-41/64/71/72	10.00	1.16e+07	0.76 y	33:31	-	1.16
48	Tetra	PCB-68	2.50	3.30e+06	0.76 y	33:46	-	1.32
49	Tetra	PCB-40	2.50	1.74e+06	0.77 y	34:00	-	0.70
50	Tetra	PCB-57	2.50	3.04e+06	0.75 y	34:21	-	1.00
51	Tetra	PCB-67	2.50	3.37e+06	0.81 y	34:39	-	1.11
52	Tetra	PCB-58	2.50	2.87e+06	0.75 y	34:46	-	0.94

53	Tetra	PCB-63	2.50	2.77e+06	0.73 y	34:55	-	0.91
54	Tetra	PCB-74	2.50	3.80e+06	0.75 y	35:12	-	1.25
55	Tetra	PCB-61/70	5.00	5.98e+06	0.74 y	35:23	-	0.98
56	Tetra	PCB-76/66	5.00	6.31e+06	0.76 y	35:36	-	1.04
57	Tetra	PCB-80	2.50	3.85e+06	0.79 y	35:50	-	1.22
58	Tetra	PCB-55	2.50	3.37e+06	0.77 y	36:09	-	1.07
59	Tetra	PCB-56/60	5.00	6.58e+06	0.79 y	36:39	-	1.05
60	Tetra	PCB-79	2.50	3.55e+06	0.78 y	37:42	-	1.13
61	Tetra	PCB-78	2.50	3.58e+06	0.75 y	38:24	-	1.27
62	Tetra	PCB-81	2.50	3.64e+06	0.71 y	38:56	-	1.29
63	Tetra	PCB-77	2.50	3.13e+06	0.84 y	39:32	-	1.11
64	Penta	PCB-104	2.50	2.54e+06	1.55 y	32:34	-	1.20
65	Penta	PCB-96	2.50	2.37e+06	1.57 y	33:49	-	1.11
66	Penta	PCB-103	2.50	1.95e+06	1.62 y	34:21	-	0.92
67	Penta	PCB-100	2.50	1.89e+06	1.58 y	34:42	-	0.89
68	Penta	PCB-94	2.50	1.59e+06	1.56 y	35:10	-	1.03
69	Penta	PCB-95/98/102	7.50	5.65e+06	1.58 y	35:40	-	1.22
70	Penta	PCB-93	2.50	1.33e+06	1.59 y	35:48	-	0.86
71	Penta	PCB-88/91	5.00	3.54e+06	1.56 y	36:05	-	1.15
72	Penta	PCB-121	2.50	2.47e+06	1.61 y	36:11	-	1.61
73	Penta	PCB-84/92	5.00	3.35e+06	1.58 y	37:00	-	1.04
74	Penta	PCB-89	2.50	1.82e+06	1.44 y	37:13	-	1.13
75	Penta	PCB-90/101	5.00	3.61e+06	1.57 y	37:23	-	1.12
76	Penta	PCB-113	2.50	2.36e+06	1.55 y	37:38	-	1.46
77	Penta	PCB-99	2.50	2.05e+06	1.54 y	37:43	-	1.27
78	Penta	PCB-119	2.50	2.29e+06	1.50 y	38:11	-	1.54
79	Penta	PCB-108/112	5.00	3.72e+06	1.60 y	38:20	-	1.25
80	Penta	PCB-83	2.50	2.26e+06	1.63 y	38:30	-	1.52
81	Penta	PCB-97	2.50	1.70e+06	1.65 y	38:41	-	1.14
82	Penta	PCB-86	2.50	1.20e+06	1.61 y	38:50	-	0.81
83	Penta	PCB-87/117/125	7.50	6.65e+06	1.64 y	38:57	-	1.49
84	Penta	PCB-111/115	5.00	4.80e+06	1.62 y	39:08	-	1.61
85	Penta	PCB-85/116	5.00	3.77e+06	1.61 y	39:15	-	1.27
86	Penta	PCB-120	2.50	2.37e+06	1.56 y	39:29	-	1.60
87	Penta	PCB-110	2.50	2.32e+06	1.42 y	39:38	-	1.56
88	Penta	PCB-82	2.50	1.39e+06	1.53 y	40:16	-	0.74
89	Penta	PCB-124	2.50	2.74e+06	1.58 y	40:57	-	1.45
90	Penta	PCB-107/109	5.00	4.89e+06	1.55 y	41:05	-	1.29
91	Penta	PCB-123	2.50	2.23e+06	1.54 y	41:15	-	1.18
92	Penta	PCB-106/118	5.00	4.74e+06	1.58 y	41:27	-	1.19
93	Penta	PCB-114	2.50	3.01e+06	1.74 y	42:06	-	1.31
94	Penta	PCB-122	2.50	2.58e+06	1.66 y	42:14	-	1.12
95	Penta	PCB-105	2.50	3.03e+06	1.56 y	42:58	-	1.31
96	Penta	PCB-127	2.50	3.44e+06	1.56 y	43:18	-	1.37
97	Penta	PCB-126	2.50	2.65e+06	1.69 y	45:12	-	1.19
98	Hexa	PCB-155	2.50	1.95e+06	1.25 y	36:56	-	1.10
99	Hexa	PCB-150	2.50	1.74e+06	1.30 y	38:12	-	0.98
100	Hexa	PCB-152	2.50	1.99e+06	1.35 y	38:40	-	1.12
101	Hexa	PCB-145	2.50	2.09e+06	1.25 y	39:08	-	1.18
102	Hexa	PCB-136	2.50	2.08e+06	1.27 y	39:27	-	1.17

103	Hexa	PCB-148	2.50	1.31e+06	1.34 y	39:33	-	0.74
104	Hexa	PCB-154	2.50	1.55e+06	1.20 y	40:02	-	0.88
105	Hexa	PCB-151	2.50	1.29e+06	1.35 y	40:41	-	0.73
106	Hexa	PCB-135	2.50	1.24e+06	1.27 y	40:53	-	0.70
107	Hexa	PCB-144	2.50	1.35e+06	1.29 y	41:00	-	0.76
108	Hexa	PCB-147	2.50	1.38e+06	1.27 y	41:08	-	0.78
109	Hexa	PCB-139/149	5.00	2.58e+06	1.32 y	41:24	-	0.73
110	Hexa	PCB-140	2.50	1.29e+06	1.21 y	41:35	-	0.73
111	Hexa	PCB-134/143	5.00	3.48e+06	1.21 y	42:01	-	0.89
112	Hexa	PCB-133/142	5.00	3.10e+06	1.24 y	42:19	-	0.79
113	Hexa	PCB-131	2.50	1.76e+06	1.30 y	42:29	-	0.90

114	Hexa	PCB-146/165	5.00	4.77e+06	1.25	y	42:42	- 1.22
115	Hexa	PCB-132/161	5.00	4.19e+06	1.28	y	42:57	- 1.07
116	Hexa	PCB-153	2.50	2.42e+06	1.18	y	43:07	- 1.24
117	Hexa	PCB-168	2.50	2.79e+06	1.31	y	43:20	- 1.43
118	Hexa	PCB-141	2.50	1.92e+06	1.24	y	43:51	- 1.04
119	Hexa	PCB-137	2.50	1.90e+06	1.26	y	44:14	- 1.03
120	Hexa	PCB-130	2.50	1.82e+06	1.20	y	44:20	- 0.99
121	Hexa	PCB-138/163/164	7.50	7.26e+06	1.17	y	44:43	- 1.30
122	Hexa	PCB-158/160	5.00	5.17e+06	1.21	y	44:58	- 1.39
123	Hexa	PCB-129	2.50	1.61e+06	1.27	y	45:12	- 0.87
124	Hexa	PCB-166	2.50	2.51e+06	1.17	y	45:40	- 1.18
125	Hexa	PCB-159	2.50	2.37e+06	1.27	y	46:00	- 1.11
126	Hexa	PCB-128/162	5.00	4.28e+06	1.21	y	46:17	- 1.00
127	Hexa	PCB-167	2.50	2.79e+06	1.21	y	46:40	- 1.21
128	Hexa	PCB-156	2.50	2.59e+06	1.29	y	47:59	- 1.18
129	Hexa	PCB-157	2.50	2.63e+06	1.28	y	48:15	- 1.14
130	Hexa	PCB-169	2.50	2.41e+06	1.20	y	50:20	- 1.09
131	Hepta	PCB-188	2.50	2.41e+06	0.99	y	42:44	- 1.55
132	Hepta	PCB-184	2.50	2.63e+06	1.06	y	43:12	- 1.69
133	Hepta	PCB-179	2.50	2.01e+06	1.01	y	43:59	- 1.29
134	Hepta	PCB-176	2.50	2.25e+06	1.03	y	44:27	- 1.45
135	Hepta	PCB-186	2.50	2.12e+06	0.99	y	45:04	- 1.36
136	Hepta	PCB-178	2.50	1.70e+06	1.03	y	45:33	- 1.10
137	Hepta	PCB-175	2.50	1.56e+06	1.13	y	45:54	- 1.00
138	Hepta	PCB-182/187	5.00	3.83e+06	1.06	y	46:04	- 1.24
139	Hepta	PCB-183	2.50	1.88e+06	0.99	y	46:23	- 1.21
140	Hepta	PCB-185	2.50	2.14e+06	1.08	y	47:03	- 1.87
141	Hepta	PCB-174	2.50	1.52e+06	1.09	y	47:25	- 1.33
142	Hepta	PCB-181	2.50	1.64e+06	1.06	y	47:31	- 1.44
143	Hepta	PCB-177	2.50	1.46e+06	1.12	y	47:41	- 1.28
144	Hepta	PCB-171	2.50	1.80e+06	1.10	y	47:59	- 1.57
145	Hepta	PCB-173	2.50	1.30e+06	1.02	y	48:25	- 1.14
146	Hepta	PCB-172	2.50	1.89e+06	1.10	y	48:52	- 1.66
147	Hepta	PCB-192	2.50	2.02e+06	1.05	y	49:03	- 1.77
148	Hepta	PCB-180	2.50	1.56e+06	1.03	y	49:15	- 1.37
149	Hepta	PCB-193	2.50	1.90e+06	1.14	y	49:27	- 1.67
150	Hepta	PCB-191	2.50	1.95e+06	1.08	y	49:42	- 1.71
151	Hepta	PCB-170	2.50	1.48e+06	1.03	y	50:41	- 1.63
152	Hepta	PCB-190	2.50	2.08e+06	1.01	y	50:51	- 2.28
153	Hepta	PCB-189	2.50	1.87e+06	1.06	y	52:07	- 1.54
154	Octa	PCB-202	2.50	1.49e+06	0.93	y	48:11	- 1.05
155	Octa	PCB-201	2.50	1.64e+06	0.88	y	48:41	- 1.16
156	Octa	PCB-204	2.50	1.62e+06	0.92	y	48:51	- 1.14
157	Octa	PCB-197	2.50	1.49e+06	0.97	y	49:09	- 1.05
158	Octa	PCB-200	2.50	1.49e+06	0.95	y	49:59	- 1.05
159	Octa	PCB-198	2.50	1.08e+06	0.86	y	51:15	- 0.76
160	Octa	PCB-199	2.50	1.06e+06	0.98	y	51:22	- 0.75
161	Octa	PCB-196/203	5.00	2.18e+06	0.94	y	51:37	- 0.77
162	Octa	PCB-195	2.50	1.58e+06	0.94	y	52:46	- 1.24
163	Octa	PCB-194	2.50	1.51e+06	0.87	y	53:39	- 1.18

164	Octa	PCB-205	2.50	1.95e+06	0.91	y	53:56	-	1.53
165	Nona	PCB-208	2.50	1.57e+06	1.28	y	52:54	-	0.91
166	Nona	PCB-207	2.50	1.82e+06	1.42	y	53:13	-	1.05
167	Nona	PCB-206	2.50	1.03e+06	1.32	y	55:21	-	0.99
168	Deca	PCB-209	2.50	1.17e+06	1.22	y	56:39	-	1.17
169	Tot ╗	Total Mono-PCB	0.00	-	-	n	-	-	1.24
170	Tot ╗	Total Di-PCB	0.00	-	-	n	-	-	1.20
171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.09

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.24
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.08
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.17
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.26
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.88
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.10
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.42
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.95
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.32
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	0.98
182	Tot ╗	Total Deca-PCB	2.50	1.17e+06	1.22	y	56:39	-	1.17
183	Mono╗	13C-PCB-1	100.00	1.61e+08	3.34	y	16:23	-	0.91
184	Mono╗	13C-PCB-3	100.00	1.70e+08	3.41	y	18:53	-	0.96
185	Di-IS	13C-PCB-4	100.00	1.05e+08	1.60	y	20:11	-	0.60
186	Di-IS	13C-PCB-9	100.00	1.61e+08	1.58	y	21:54	-	0.91
187	Di-IS	13C-PCB-11	100.00	1.68e+08	1.55	y	25:12	-	0.95
188	Tri-╗	13C-PCB-19	100.00	9.81e+07	1.09	y	24:13	-	0.56
189	Tri-╗	13C-PCB-32	100.00	1.41e+08	1.10	y	27:05	-	0.80
190	Tri-╗	13C-PCB-28	100.00	1.45e+08	1.05	y	29:00	-	0.93
191	Tri-╗	13C-PCB-37	100.00	1.23e+08	1.05	y	32:51	-	0.79
192	Tetr╗	13C-PCB-54	100.00	1.19e+08	0.80	y	27:55	-	0.97
193	Tetr╗	13C-PCB-52	100.00	9.54e+07	0.79	y	31:24	-	0.77
194	Tetr╗	13C-PCB-47	100.00	9.99e+07	0.78	y	31:53	-	0.81
195	Tetr╗	13C-PCB-70	100.00	1.22e+08	0.79	y	35:24	-	0.99
196	Tetr╗	13C-PCB-80	100.00	1.26e+08	0.79	y	35:48	-	1.02
197	Tetr╗	13C-PCB-81	100.00	1.13e+08	0.80	y	38:55	-	0.92
198	Tetr╗	13C-PCB-77	100.00	1.13e+08	0.81	y	39:31	-	0.92
199	Pent╗	13C-PCB-104	100.00	8.51e+07	1.58	y	32:33	-	1.01
200	Pent╗	13C-PCB-95	100.00	6.16e+07	1.60	y	35:42	-	0.73
201	Pent╗	13C-PCB-101	100.00	6.46e+07	1.61	y	37:22	-	0.77
202	Pent╗	13C-PCB-97	100.00	5.95e+07	1.56	y	38:40	-	0.71
203	Pent╗	13C-PCB-123	100.00	7.57e+07	1.60	y	41:14	-	0.90
204	Pent╗	13C-PCB-118	100.00	7.96e+07	1.58	y	41:25	-	0.95
205	Pent╗	13C-PCB-114	100.00	9.23e+07	1.63	y	42:05	-	1.35
206	Pent╗	13C-PCB-105	100.00	9.25e+07	1.61	y	42:57	-	1.36
207	Pent╗	13C-PCB-127	100.00	1.01e+08	1.61	y	43:17	-	1.48
208	Pent╗	13C-PCB-126	100.00	8.91e+07	1.60	y	45:11	-	1.31
209	Hexa╗	13C-PCB-155	100.00	7.08e+07	1.28	y	36:55	-	0.84
210	Hexa╗	13C-PCB-153	100.00	7.84e+07	1.29	y	43:06	-	1.15
211	Hexa╗	13C-PCB-141	100.00	7.40e+07	1.27	y	43:50	-	1.09
212	Hexa	13C-PCB-138	100.00	7.43e+07	1.26	y	44:41	-	1.09
213	Hexa╗	13C-PCB-159	100.00	8.52e+07	1.28	y	45:58	-	1.25
214	Hexa╗	13C-PCB-167	100.00	9.23e+07	1.29	y	46:40	-	1.35
215	Hexa╗	13C-PCB-156	100.00	8.80e+07	1.30	y	47:58	-	1.29
216	Hexa╗	13C-PCB-157	100.00	9.23e+07	1.29	y	48:14	-	1.35
217	Hexa╗	13C-PCB-169	100.00	8.83e+07	1.28	y	50:19	-	1.29
218	Hept╗	13C-PCB-188	100.00	6.20e+07	0.47	y	42:44	-	0.91
219	Hept╗	13C-PCB-180	100.00	4.56e+07	0.47	y	49:15	-	0.67
220	Hept╗	13C-PCB-170	100.00	3.64e+07	0.46	y	50:40	-	0.53
221	Hept╗	13C-PCB-189	100.00	4.86e+07	0.48	y	52:07	-	0.71
222	Octa╗	13C-PCB-202	100.00	5.66e+07	0.90	y	48:10	-	0.83

223	Octa¶	13C-PCB-194	100.00	5.12e+07	0.92	y	53:38	-	0.80
224	Nona¶	13C-PCB-208	100.00	6.94e+07	0.78	y	52:53	-	1.09
225	Nona¶	13C-PCB-206	100.00	4.16e+07	0.79	y	55:20	-	0.65
226	Deca¶	13C-PCB-209	100.00	3.99e+07	1.19	y	56:38	-	0.63
227	DI-RS	13C-PCB-15	100.00	1.76e+08	1.60	y	25:54	-	1.00
228	Tri-¶	13C-PCB-31	100.00	1.55e+08	1.05	y	28:54	-	1.00
229	Tetr¶	13C-PCB-60	100.00	1.23e+08	0.79	y	36:38	-	1.00
230	Penta	13C-PCB-111	100.00	8.39e+07	1.60	y	39:06	-	1.00
231	Hexa¶	13C-PCB-128	100.00	6.82e+07	1.27	y	46:16	-	1.00
232	Octa¶	13C-PCB-205	100.00	6.36e+07	0.91	y	53:55	-	1.00

233	CRS	13C-PCB-79	100.00	1.25e+08	0.79 y	37:41	-	1.02
234	CRS	13C-PCB-178	100.00	4.19e+07	0.47 y	45:32	-	0.61
235	PS	13C-PCB-79	100.00	1.25e+08	0.79 y	37:41	-	1.11
236	PS	13C-PCB-178	100.00	4.19e+07	0.47 y	45:32	-	0.92

Filename: 140623E2 S: 4 Acquired: 23-JUN-14 14:53:49
Run: 140623E2 Analyte: ICal: PCBVG8-6-23-14 Results: 140623E2
Sample text: ST140623E2-4 PCB CS3 14F1302

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	50.00	9.40e+07	3.00 y	16:25	-	1.23
2	Mono	PCB-2	50.00	9.45e+07	3.01 y	18:41	-	1.23
3	Mono	PCB-3	50.00	1.13e+08	3.01 y	18:55	-	1.46
4	Di	PCB-4/10	200.00	3.27e+08	1.65 y	20:14	-	1.57
5	Di	PCB-7/9	200.00	3.82e+08	1.65 y	21:57	-	1.21
6	Di	PCB-6	100.00	2.07e+08	1.66 y	22:35	-	1.31
7	Di	PCB-5/8	200.00	3.65e+08	1.64 y	23:00	-	1.15
8	Di	PCB-14	100.00	1.87e+08	1.66 y	24:04	-	1.14
9	Di	PCB-11	100.00	1.81e+08	1.65 y	25:14	-	1.10
10	Di	PCB-12/13	200.00	3.92e+08	1.65 y	25:38	-	1.20
11	Di	PCB-15	100.00	2.11e+08	1.66 y	25:56	-	1.28
12	Tri	PCB-19	50.00	4.92e+07	1.05 y	24:15	-	1.04
13	Tri	PCB-30	50.00	7.99e+07	1.06 y	25:07	-	1.69
14	Tri	PCB-18	50.00	5.58e+07	1.05 y	25:51	-	0.80
15	Tri	PCB-17	50.00	6.48e+07	1.05 y	26:02	-	0.93
16	Tri	PCB-24/27	100.00	1.68e+08	1.05 y	26:36	-	1.20
17	Tri	PCB-16/32	100.00	1.31e+08	1.06 y	27:06	-	0.94
18	Tri	PCB-34	50.00	7.59e+07	1.03 y	27:52	-	1.09
19	Tri	PCB-23	50.00	8.55e+07	1.06 y	27:58	-	1.23
20	Tri	PCB-29	50.00	7.42e+07	1.04 y	28:13	-	1.06
21	Tri	PCB-26	50.00	8.24e+07	1.04 y	28:25	-	1.18
22	Tri	PCB-25	50.00	8.85e+07	1.06 y	28:34	-	1.27
23	Tri	PCB-31	50.00	8.65e+07	1.02 y	28:56	-	1.24
24	Tri	PCB-28	50.00	1.19e+08	1.04 y	29:02	-	1.70
25	Tri	PCB-20/21/33	150.00	2.26e+08	1.03 y	29:39	-	1.08
26	Tri	PCB-22	50.00	8.60e+07	1.04 y	30:05	-	1.23
27	Tri	PCB-36	50.00	7.12e+07	1.03 y	30:40	-	1.18
28	Tri	PCB-39	50.00	7.20e+07	1.02 y	31:09	-	1.20
29	Tri	PCB-38	50.00	7.37e+07	1.03 y	31:55	-	1.23
30	Tri	PCB-35	50.00	7.10e+07	1.03 y	32:26	-	1.18
31	Tri	PCB-37	50.00	7.16e+07	1.02 y	32:53	-	1.19
32	Tetra	PCB-54	50.00	6.73e+07	0.78 y	27:57	-	1.10
33	Tetra	PCB-50	50.00	5.38e+07	0.77 y	29:05	-	0.88
34	Tetra	PCB-53	50.00	5.23e+07	0.75 y	29:44	-	1.08
35	Tetra	PCB-51	50.00	4.77e+07	0.77 y	30:04	-	0.98
36	Tetra	PCB-45	50.00	4.32e+07	0.77 y	30:30	-	0.89
37	Tetra	PCB-46	50.00	4.05e+07	0.76 y	30:59	-	0.83
38	Tetra	PCB-52/69	100.00	1.24e+08	0.76 y	31:27	-	1.28
39	Tetra	PCB-73	50.00	6.71e+07	0.78 y	31:34	-	1.38
40	Tetra	PCB-43/49	100.00	9.43e+07	0.76 y	31:44	-	0.97
41	Tetra	PCB-47	50.00	5.35e+07	0.76 y	31:55	-	1.04

42	Tetra	PCB-48/75	100.00	1.20e+08	0.77 y	32:02	-	1.17
43	Tetra	PCB-65	50.00	6.30e+07	0.76 y	32:19	-	1.23
44	Tetra	PCB-62	50.00	5.58e+07	0.76 y	32:26	-	1.09
45	Tetra	PCB-44	50.00	4.12e+07	0.77 y	32:43	-	0.80
46	Tetra	PCB-42/59	100.00	1.11e+08	0.76 y	32:57	-	1.08
47	Tetra	PCB-41/64/71/72	200.00	2.33e+08	0.77 y	33:32	-	1.13
48	Tetra	PCB-68	50.00	6.63e+07	0.76 y	33:47	-	1.29
49	Tetra	PCB-40	50.00	3.48e+07	0.77 y	34:00	-	0.68
50	Tetra	PCB-57	50.00	6.06e+07	0.76 y	34:22	-	0.99
51	Tetra	PCB-67	50.00	6.65e+07	0.76 y	34:40	-	1.09
52	Tetra	PCB-58	50.00	5.67e+07	0.79 y	34:47	-	0.93

53	Tetra	PCB-63	50.00	5.70e+07	0.76 y	34:56	-	0.93
54	Tetra	PCB-74	50.00	7.34e+07	0.77 y	35:13	-	1.20
55	Tetra	PCB-61/70	100.00	1.16e+08	0.77 y	35:24	-	0.95
56	Tetra	PCB-76/66	100.00	1.26e+08	0.77 y	35:37	-	1.03
57	Tetra	PCB-80	50.00	7.72e+07	0.77 y	35:50	-	1.22
58	Tetra	PCB-55	50.00	6.84e+07	0.77 y	36:10	-	1.08
59	Tetra	PCB-56/60	100.00	1.27e+08	0.77 y	36:40	-	1.00
60	Tetra	PCB-79	50.00	6.79e+07	0.78 y	37:43	-	1.07
61	Tetra	PCB-78	50.00	6.97e+07	0.77 y	38:25	-	1.25
62	Tetra	PCB-81	50.00	7.20e+07	0.78 y	38:57	-	1.29
63	Tetra	PCB-77	50.00	6.19e+07	0.79 y	39:33	-	1.08
64	Penta	PCB-104	50.00	5.11e+07	1.57 y	32:35	-	1.20
65	Penta	PCB-96	50.00	4.80e+07	1.56 y	33:50	-	1.13
66	Penta	PCB-103	50.00	3.98e+07	1.56 y	34:22	-	0.93
67	Penta	PCB-100	50.00	3.93e+07	1.58 y	34:42	-	0.92
68	Penta	PCB-94	50.00	3.18e+07	1.55 y	35:11	-	1.02
69	Penta	PCB-95/98/102	150.00	1.14e+08	1.55 y	35:42	-	1.22
70	Penta	PCB-93	50.00	2.65e+07	1.58 y	35:48	-	0.85
71	Penta	PCB-88/91	100.00	7.03e+07	1.58 y	36:05	-	1.12
72	Penta	PCB-121	50.00	5.08e+07	1.60 y	36:12	-	1.62
73	Penta	PCB-84/92	100.00	6.82e+07	1.56 y	37:01	-	1.04
74	Penta	PCB-89	50.00	3.73e+07	1.58 y	37:14	-	1.14
75	Penta	PCB-90/101	100.00	7.26e+07	1.56 y	37:24	-	1.10
76	Penta	PCB-113	50.00	4.88e+07	1.57 y	37:39	-	1.49
77	Penta	PCB-99	50.00	4.19e+07	1.60 y	37:44	-	1.27
78	Penta	PCB-119	50.00	4.49e+07	1.56 y	38:12	-	1.52
79	Penta	PCB-108/112	100.00	7.56e+07	1.58 y	38:21	-	1.28
80	Penta	PCB-83	50.00	4.40e+07	1.57 y	38:31	-	1.49
81	Penta	PCB-97	50.00	3.44e+07	1.55 y	38:42	-	1.17
82	Penta	PCB-86	50.00	2.35e+07	1.55 y	38:51	-	0.80
83	Penta	PCB-87/117/125	150.00	1.40e+08	1.62 y	38:58	-	1.59
84	Penta	PCB-111/115	100.00	9.49e+07	1.51 y	39:08	-	1.61
85	Penta	PCB-85/116	100.00	7.71e+07	1.58 y	39:16	-	1.31
86	Penta	PCB-120	50.00	4.81e+07	1.59 y	39:30	-	1.63
87	Penta	PCB-110	50.00	4.58e+07	1.57 y	39:39	-	1.56
88	Penta	PCB-82	50.00	2.78e+07	1.55 y	40:17	-	0.76
89	Penta	PCB-124	50.00	5.28e+07	1.58 y	40:57	-	1.43
90	Penta	PCB-107/109	100.00	9.93e+07	1.59 y	41:05	-	1.35
91	Penta	PCB-123	50.00	4.35e+07	1.59 y	41:17	-	1.18
92	Penta	PCB-106/118	100.00	9.15e+07	1.59 y	41:28	-	1.17
93	Penta	PCB-114	50.00	6.12e+07	1.65 y	42:07	-	1.31
94	Penta	PCB-122	50.00	5.19e+07	1.66 y	42:15	-	1.11
95	Penta	PCB-105	50.00	5.88e+07	1.64 y	42:59	-	1.28
96	Penta	PCB-127	50.00	6.36e+07	1.67 y	43:19	-	1.27
97	Penta	PCB-126	50.00	5.32e+07	1.63 y	45:13	-	1.17
98	Hexa	PCB-155	50.00	3.92e+07	1.27 y	36:57	-	1.11
99	Hexa	PCB-150	50.00	3.54e+07	1.29 y	38:13	-	1.00
100	Hexa	PCB-152	50.00	3.90e+07	1.30 y	38:42	-	1.10
101	Hexa	PCB-145	50.00	4.21e+07	1.28 y	39:08	-	1.19
102	Hexa	PCB-136	50.00	4.09e+07	1.29 y	39:28	-	1.15

103	Hexa	PCB-148	50.00	2.62e+07	1.30	y	39:33	-	0.74
104	Hexa	PCB-154	50.00	2.94e+07	1.28	y	40:03	-	0.83
105	Hexa	PCB-151	50.00	2.53e+07	1.29	y	40:42	-	0.71
106	Hexa	PCB-135	50.00	2.73e+07	1.26	y	40:55	-	0.77
107	Hexa	PCB-144	50.00	2.52e+07	1.30	y	41:02	-	0.71
108	Hexa	PCB-147	50.00	2.80e+07	1.30	y	41:09	-	0.79
109	Hexa	PCB-139/149	100.00	5.22e+07	1.28	y	41:25	-	0.74
110	Hexa	PCB-140	50.00	2.47e+07	1.27	y	41:36	-	0.70
111	Hexa	PCB-134/143	100.00	7.05e+07	1.25	y	42:02	-	0.89
112	Hexa	PCB-133/142	100.00	6.32e+07	1.24	y	42:20	-	0.80
113	Hexa	PCB-131	50.00	3.53e+07	1.23	y	42:30	-	0.89

114	Hexa	PCB-146/165	100.00	9.72e+07	1.25 y	42:43	-	1.23
115	Hexa	PCB-132/161	100.00	8.58e+07	1.31 y	42:58	-	1.08
116	Hexa	PCB-153	50.00	4.86e+07	1.16 y	43:08	-	1.23
117	Hexa	PCB-168	50.00	5.75e+07	1.25 y	43:21	-	1.45
118	Hexa	PCB-141	50.00	3.94e+07	1.24 y	43:52	-	1.06
119	Hexa	PCB-137	50.00	3.90e+07	1.23 y	44:15	-	1.05
120	Hexa	PCB-130	50.00	3.61e+07	1.23 y	44:21	-	0.97
121	Hexa	PCB-138/163/164	150.00	1.47e+08	1.24 y	44:44	-	1.27
122	Hexa	PCB-158/160	100.00	1.03e+08	1.23 y	44:59	-	1.34
123	Hexa	PCB-129	50.00	3.23e+07	1.24 y	45:13	-	0.84
124	Hexa	PCB-166	50.00	4.98e+07	1.24 y	45:41	-	1.17
125	Hexa	PCB-159	50.00	4.70e+07	1.23 y	46:01	-	1.11
126	Hexa	PCB-128/162	100.00	8.65e+07	1.23 y	46:18	-	1.02
127	Hexa	PCB-167	50.00	5.55e+07	1.22 y	46:41	-	1.20
128	Hexa	PCB-156	50.00	5.05e+07	1.25 y	48:00	-	1.14
129	Hexa	PCB-157	50.00	5.18e+07	1.24 y	48:16	-	1.13
130	Hexa	PCB-169	50.00	4.66e+07	1.27 y	50:20	-	1.08
131	Hepta	PCB-188	50.00	4.99e+07	1.05 y	42:46	-	1.56
132	Hepta	PCB-184	50.00	5.13e+07	1.06 y	43:13	-	1.60
133	Hepta	PCB-179	50.00	4.15e+07	1.06 y	44:00	-	1.30
134	Hepta	PCB-176	50.00	4.68e+07	1.04 y	44:28	-	1.46
135	Hepta	PCB-186	50.00	4.64e+07	1.05 y	45:05	-	1.45
136	Hepta	PCB-178	50.00	3.27e+07	1.05 y	45:34	-	1.02
137	Hepta	PCB-175	50.00	3.22e+07	1.05 y	45:55	-	1.01
138	Hepta	PCB-182/187	100.00	7.77e+07	1.05 y	46:05	-	1.21
139	Hepta	PCB-183	50.00	3.68e+07	1.05 y	46:24	-	1.15
140	Hepta	PCB-185	50.00	4.12e+07	1.07 y	47:04	-	1.78
141	Hepta	PCB-174	50.00	3.30e+07	1.02 y	47:26	-	1.42
142	Hepta	PCB-181	50.00	3.14e+07	1.06 y	47:33	-	1.36
143	Hepta	PCB-177	50.00	2.91e+07	1.05 y	47:42	-	1.26
144	Hepta	PCB-171	50.00	3.69e+07	1.07 y	48:00	-	1.59
145	Hepta	PCB-173	50.00	2.61e+07	1.04 y	48:26	-	1.13
146	Hepta	PCB-172	50.00	3.80e+07	1.07 y	48:53	-	1.64
147	Hepta	PCB-192	50.00	4.11e+07	1.06 y	49:04	-	1.78
148	Hepta	PCB-180	50.00	3.12e+07	1.05 y	49:17	-	1.35
149	Hepta	PCB-193	50.00	3.98e+07	1.07 y	49:27	-	1.72
150	Hepta	PCB-191	50.00	3.90e+07	1.07 y	49:42	-	1.68
151	Hepta	PCB-170	50.00	2.97e+07	1.05 y	50:41	-	1.62
152	Hepta	PCB-190	50.00	4.08e+07	1.06 y	50:51	-	2.23
153	Hepta	PCB-189	50.00	3.71e+07	1.05 y	52:08	-	1.55
154	Octa	PCB-202	50.00	3.01e+07	0.94 y	48:12	-	1.06
155	Octa	PCB-201	50.00	3.19e+07	0.91 y	48:41	-	1.13
156	Octa	PCB-204	50.00	3.22e+07	0.91 y	48:50	-	1.14
157	Octa	PCB-197	50.00	3.03e+07	0.91 y	49:09	-	1.07
158	Octa	PCB-200	50.00	3.01e+07	0.90 y	49:59	-	1.06
159	Octa	PCB-198	50.00	2.18e+07	0.92 y	51:15	-	0.77
160	Octa	PCB-199	50.00	2.16e+07	0.91 y	51:21	-	0.76
161	Octa	PCB-196/203	100.00	4.53e+07	0.92 y	51:36	-	0.80
162	Octa	PCB-195	50.00	3.20e+07	0.89 y	52:45	-	1.24
163	Octa	PCB-194	50.00	3.08e+07	0.92 y	53:37	-	1.19

164	Octa	PCB-205	50.00	3.93e+07	0.92	y	53:55	-	1.52
165	Nona	PCB-208	50.00	3.24e+07	1.34	y	52:53	-	0.92
166	Nona	PCB-207	50.00	3.78e+07	1.32	y	53:12	-	1.08
167	Nona	PCB-206	50.00	2.13e+07	1.36	y	55:20	-	1.01
168	Deca	PCB-209	50.00	2.30e+07	1.21	y	56:38	-	1.20
169	Tot ╗	Total Mono-PCB	0.00	-	-	n	-	-	1.31
170	Tot ╗	Total Di-PCB	0.00	-	-	n	-	-	1.21
171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.10

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.21
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.06
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.18
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.23
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.88
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.09
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.41
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.96
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.32
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	1.00
182	Tot ╗	Total Deca-PCB	50.00	2.30e+07	1.21	y	56:38	-	1.20
183	Mono╗	13C-PCB-1	100.00	1.53e+08	3.37	y	16:24	-	0.86
184	Mono╗	13C-PCB-3	100.00	1.54e+08	3.41	y	18:54	-	0.86
185	Di-IS	13C-PCB-4	100.00	1.04e+08	1.58	y	20:11	-	0.59
186	Di-IS	13C-PCB-9	100.00	1.59e+08	1.59	y	21:55	-	0.89
187	Di-IS	13C-PCB-11	100.00	1.64e+08	1.57	y	25:13	-	0.92
188	Tri-╗	13C-PCB-19	100.00	9.46e+07	1.07	y	24:14	-	0.53
189	Tri-╗	13C-PCB-32	100.00	1.39e+08	1.09	y	27:06	-	0.78
190	Tri-╗	13C-PCB-28	100.00	1.40e+08	1.06	y	29:01	-	0.92
191	Tri-╗	13C-PCB-37	100.00	1.20e+08	1.07	y	32:52	-	0.79
192	Tetr╗	13C-PCB-54	100.00	1.23e+08	0.81	y	27:55	-	0.98
193	Tetr╗	13C-PCB-52	100.00	9.72e+07	0.80	y	31:24	-	0.78
194	Tetr╗	13C-PCB-47	100.00	1.02e+08	0.79	y	31:54	-	0.82
195	Tetr╗	13C-PCB-70	100.00	1.22e+08	0.78	y	35:25	-	0.98
196	Tetr╗	13C-PCB-80	100.00	1.27e+08	0.80	y	35:49	-	1.01
197	Tetr╗	13C-PCB-81	100.00	1.12e+08	0.79	y	38:56	-	0.89
198	Tetr╗	13C-PCB-77	100.00	1.14e+08	0.78	y	39:32	-	0.91
199	Pent╗	13C-PCB-104	100.00	8.52e+07	1.57	y	32:34	-	1.00
200	Pent╗	13C-PCB-95	100.00	6.27e+07	1.59	y	35:43	-	0.74
201	Pent╗	13C-PCB-101	100.00	6.57e+07	1.54	y	37:23	-	0.77
202	Pent╗	13C-PCB-97	100.00	5.89e+07	1.59	y	38:42	-	0.69
203	Pent╗	13C-PCB-123	100.00	7.37e+07	1.61	y	41:15	-	0.87
204	Pent╗	13C-PCB-118	100.00	7.79e+07	1.58	y	41:26	-	0.92
205	Pent╗	13C-PCB-114	100.00	9.33e+07	1.60	y	42:06	-	1.35
206	Pent╗	13C-PCB-105	100.00	9.17e+07	1.60	y	42:58	-	1.32
207	Pent╗	13C-PCB-127	100.00	1.00e+08	1.57	y	43:17	-	1.45
208	Pent╗	13C-PCB-126	100.00	9.05e+07	1.58	y	45:12	-	1.31
209	Hexa╗	13C-PCB-155	100.00	7.08e+07	1.29	y	36:55	-	0.83
210	Hexa╗	13C-PCB-153	100.00	7.92e+07	1.29	y	43:07	-	1.14
211	Hexa╗	13C-PCB-141	100.00	7.45e+07	1.28	y	43:51	-	1.07
212	Hexa	13C-PCB-138	100.00	7.71e+07	1.29	y	44:42	-	1.11
213	Hexa╗	13C-PCB-159	100.00	8.48e+07	1.27	y	45:59	-	1.22
214	Hexa╗	13C-PCB-167	100.00	9.22e+07	1.30	y	46:40	-	1.33
215	Hexa╗	13C-PCB-156	100.00	8.85e+07	1.29	y	47:58	-	1.28
216	Hexa╗	13C-PCB-157	100.00	9.20e+07	1.29	y	48:15	-	1.33
217	Hexa╗	13C-PCB-169	100.00	8.62e+07	1.27	y	50:19	-	1.24
218	Hept╗	13C-PCB-188	100.00	6.40e+07	0.46	y	42:45	-	0.92
219	Hept╗	13C-PCB-180	100.00	4.63e+07	0.47	y	49:15	-	0.67
220	Hept╗	13C-PCB-170	100.00	3.66e+07	0.47	y	50:40	-	0.53
221	Hept╗	13C-PCB-189	100.00	4.78e+07	0.47	y	52:07	-	0.69
222	Octa╗	13C-PCB-202	100.00	5.65e+07	0.94	y	48:11	-	0.81

223	Octa╕	13C-PCB-194	100.00	5.16e+07	0.92 y	53:36	-	0.79
224	Nona╕	13C-PCB-208	100.00	7.00e+07	0.78 y	52:53	-	1.08
225	Nona╕	13C-PCB-206	100.00	4.23e+07	0.78 y	55:19	-	0.65
226	Deca╕	13C-PCB-209	100.00	3.85e+07	1.23 y	56:37	-	0.59
227	DI-RS	13C-PCB-15	100.00	1.78e+08	1.59 y	25:55	-	1.00
228	Tri-╕	13C-PCB-31	100.00	1.52e+08	1.05 y	28:55	-	1.00
229	Tetr╕	13C-PCB-60	100.00	1.25e+08	0.79 y	36:39	-	1.00
230	Penta	13C-PCB-111	100.00	8.51e+07	1.57 y	39:07	-	1.00
231	Hexa╕	13C-PCB-128	100.00	6.93e+07	1.27 y	46:16	-	1.00
232	Octa╕	13C-PCB-205	100.00	6.51e+07	0.91 y	53:54	-	1.00

233	CRS		13C-PCB-79	100.00	1.25e+08	0.79	y	37:42	- 1.00
234	CRS		13C-PCB-178	100.00	4.30e+07	0.46	y	45:33	- 0.62
235	PS		13C-PCB-79	100.00	1.25e+08	0.79	y	37:42	- 1.12
236	PS		13C-PCB-178	100.00	4.30e+07	0.46	y	45:33	- 0.93

Filename: 140623E2 S: 5 Acquired: 23-JUN-14 15:57:45
Run: 140623E2 Analyte: ICal: PCBVG8-6-23-14 Results: 140623E2
Sample text: ST140623E2-5 PCB CS4 14F1605

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	400.00	7.39e+08	3.02 y	16:25	-	1.29
2	Mono	PCB-2	400.00	7.73e+08	3.00 y	18:41	-	1.28
3	Mono	PCB-3	400.00	9.04e+08	3.01 y	18:55	-	1.49
4	Di	PCB-4/10	1600.00	2.74e+09	1.64 y	20:14	-	1.60
5	Di	PCB-7/9	1600.00	3.22e+09	1.65 y	21:58	-	1.22
6	Di	PCB-6	800.00	1.77e+09	1.65 y	22:36	-	1.34
7	Di	PCB-5/8	1600.00	3.07e+09	1.65 y	23:01	-	1.16
8	Di	PCB-14	800.00	1.56e+09	1.66 y	24:04	-	1.12
9	Di	PCB-11	800.00	1.52e+09	1.66 y	25:15	-	1.09
10	Di	PCB-12/13	1600.00	3.35e+09	1.64 y	25:37	-	1.20
11	Di	PCB-15	800.00	1.81e+09	1.65 y	25:56	-	1.30
12	Tri	PCB-19	400.00	3.88e+08	1.06 y	24:15	-	1.07
13	Tri	PCB-30	400.00	6.46e+08	1.07 y	25:08	-	1.79
14	Tri	PCB-18	400.00	4.49e+08	1.07 y	25:51	-	0.78
15	Tri	PCB-17	400.00	5.20e+08	1.07 y	26:02	-	0.91
16	Tri	PCB-24/27	800.00	1.36e+09	1.07 y	26:36	-	1.18
17	Tri	PCB-16/32	800.00	1.07e+09	1.06 y	27:06	-	0.94
18	Tri	PCB-34	400.00	6.31e+08	1.04 y	27:53	-	1.16
19	Tri	PCB-23	400.00	6.73e+08	1.03 y	27:58	-	1.24
20	Tri	PCB-29	400.00	5.51e+08	1.00 y	28:13	-	1.01
21	Tri	PCB-26	400.00	6.09e+08	1.01 y	28:26	-	1.12
22	Tri	PCB-25	400.00	6.81e+08	1.01 y	28:35	-	1.25
23	Tri	PCB-31	400.00	6.90e+08	1.00 y	28:56	-	1.27
24	Tri	PCB-28	400.00	8.88e+08	1.03 y	29:02	-	1.63
25	Tri	PCB-20/21/33	1200.00	1.80e+09	1.00 y	29:38	-	1.11
26	Tri	PCB-22	400.00	5.78e+08	1.01 y	30:06	-	1.06
27	Tri	PCB-36	400.00	5.30e+08	1.01 y	30:41	-	1.05
28	Tri	PCB-39	400.00	4.63e+08	0.99 y	31:09	-	0.92
29	Tri	PCB-38	400.00	5.20e+08	1.00 y	31:56	-	1.03
30	Tri	PCB-35	400.00	5.75e+08	0.99 y	32:27	-	1.15
31	Tri	PCB-37	400.00	5.64e+08	1.01 y	32:53	-	1.12
32	Tetra	PCB-54	400.00	5.49e+08	0.77 y	27:57	-	1.09
33	Tetra	PCB-50	400.00	4.32e+08	0.76 y	29:05	-	0.86
34	Tetra	PCB-53	400.00	4.28e+08	0.76 y	29:44	-	1.09
35	Tetra	PCB-51	400.00	3.77e+08	0.76 y	30:04	-	0.96
36	Tetra	PCB-45	400.00	3.32e+08	0.76 y	30:30	-	0.84
37	Tetra	PCB-46	400.00	3.25e+08	0.77 y	30:59	-	0.83
38	Tetra	PCB-52/69	800.00	9.79e+08	0.75 y	31:27	-	1.25
39	Tetra	PCB-73	400.00	5.09e+08	0.76 y	31:34	-	1.30
40	Tetra	PCB-43/49	800.00	7.49e+08	0.75 y	31:43	-	0.95
41	Tetra	PCB-47	400.00	4.38e+08	0.76 y	31:56	-	1.04

42	Tetra	PCB-48/75	800.00	9.87e+08	0.76	y	32:03	- 1.17
43	Tetra	PCB-65	400.00	4.70e+08	0.75	y	32:19	- 1.12
44	Tetra	PCB-62	400.00	5.15e+08	0.76	y	32:25	- 1.22
45	Tetra	PCB-44	400.00	3.32e+08	0.76	y	32:44	- 0.79
46	Tetra	PCB-42/59	800.00	9.34e+08	0.76	y	32:57	- 1.11
47	Tetra	PCB-41/64/71/72	1600.00	2.01e+09	0.77	y	33:32	- 1.19
48	Tetra	PCB-68	400.00	5.53e+08	0.76	y	33:47	- 1.31
49	Tetra	PCB-40	400.00	2.93e+08	0.77	y	34:01	- 0.69
50	Tetra	PCB-57	400.00	4.98e+08	0.76	y	34:21	- 0.96
51	Tetra	PCB-67	400.00	5.63e+08	0.76	y	34:40	- 1.09
52	Tetra	PCB-58	400.00	4.58e+08	0.78	y	34:47	- 0.88

53	Tetra	PCB-63	400.00	4.57e+08	0.76	y	34:56	- 0.88
54	Tetra	PCB-74	400.00	6.33e+08	0.76	y	35:14	- 1.23
55	Tetra	PCB-61/70	800.00	9.54e+08	0.76	y	35:24	- 0.92
56	Tetra	PCB-76/66	800.00	1.06e+09	0.77	y	35:37	- 1.03
57	Tetra	PCB-80	400.00	6.36e+08	0.77	y	35:51	- 1.18
58	Tetra	PCB-55	400.00	5.68e+08	0.76	y	36:10	- 1.05
59	Tetra	PCB-56/60	800.00	1.04e+09	0.76	y	36:40	- 0.97
60	Tetra	PCB-79	400.00	5.59e+08	0.77	y	37:44	- 1.04
61	Tetra	PCB-78	400.00	5.77e+08	0.76	y	38:26	- 1.20
62	Tetra	PCB-81	400.00	6.11e+08	0.76	y	38:58	- 1.27
63	Tetra	PCB-77	400.00	5.41e+08	0.79	y	39:33	- 1.07
64	Penta	PCB-104	400.00	4.22e+08	1.58	y	32:35	- 1.19
65	Penta	PCB-96	400.00	4.08e+08	1.59	y	33:51	- 1.16
66	Penta	PCB-103	400.00	3.36e+08	1.56	y	34:23	- 0.95
67	Penta	PCB-100	400.00	3.34e+08	1.58	y	34:43	- 0.95
68	Penta	PCB-94	400.00	2.70e+08	1.58	y	35:11	- 1.00
69	Penta	PCB-95/98/102	1200.00	9.97e+08	1.58	y	35:41	- 1.23
70	Penta	PCB-93	400.00	2.10e+08	1.55	y	35:49	- 0.77
71	Penta	PCB-88/91	800.00	6.29e+08	1.54	y	36:06	- 1.16
72	Penta	PCB-121	400.00	4.11e+08	1.62	y	36:13	- 1.52
73	Penta	PCB-84/92	800.00	5.85e+08	1.57	y	37:02	- 1.04
74	Penta	PCB-89	400.00	3.12e+08	1.58	y	37:13	- 1.11
75	Penta	PCB-90/101	800.00	6.09e+08	1.57	y	37:23	- 1.08
76	Penta	PCB-113	400.00	3.62e+08	1.56	y	37:38	- 1.29
77	Penta	PCB-99	400.00	4.00e+08	1.57	y	37:44	- 1.42
78	Penta	PCB-119	400.00	3.82e+08	1.57	y	38:12	- 1.53
79	Penta	PCB-108/112	800.00	6.45e+08	1.57	y	38:21	- 1.29
80	Penta	PCB-83	400.00	3.69e+08	1.56	y	38:31	- 1.48
81	Penta	PCB-97	400.00	2.93e+08	1.58	y	38:43	- 1.17
82	Penta	PCB-86	400.00	2.07e+08	1.53	y	38:52	- 0.83
83	Penta	PCB-87/117/125	1200.00	1.19e+09	1.57	y	38:59	- 1.59
84	Penta	PCB-111/115	800.00	8.24e+08	1.65	y	39:09	- 1.65
85	Penta	PCB-85/116	800.00	6.56e+08	1.48	y	39:17	- 1.31
86	Penta	PCB-120	400.00	4.25e+08	1.57	y	39:30	- 1.70
87	Penta	PCB-110	400.00	3.85e+08	1.58	y	39:40	- 1.54
88	Penta	PCB-82	400.00	2.39e+08	1.57	y	40:17	- 0.76
89	Penta	PCB-124	400.00	4.72e+08	1.57	y	40:57	- 1.51
90	Penta	PCB-107/109	800.00	8.57e+08	1.57	y	41:06	- 1.37
91	Penta	PCB-123	400.00	3.63e+08	1.58	y	41:16	- 1.16
92	Penta	PCB-106/118	800.00	7.95e+08	1.58	y	41:29	- 1.15
93	Penta	PCB-114	400.00	5.21e+08	1.63	y	42:07	- 1.28
94	Penta	PCB-122	400.00	4.51e+08	1.65	y	42:16	- 1.11
95	Penta	PCB-105	400.00	5.21e+08	1.62	y	42:59	- 1.28
96	Penta	PCB-127	400.00	5.57e+08	1.64	y	43:19	- 1.28
97	Penta	PCB-126	400.00	4.53e+08	1.65	y	45:14	- 1.18
98	Hexa	PCB-155	400.00	3.27e+08	1.28	y	36:57	- 1.11
99	Hexa	PCB-150	400.00	3.03e+08	1.28	y	38:13	- 1.03
100	Hexa	PCB-152	400.00	3.29e+08	1.27	y	38:42	- 1.12
101	Hexa	PCB-145	400.00	3.63e+08	1.28	y	39:09	- 1.23
102	Hexa	PCB-136	400.00	3.55e+08	1.28	y	39:28	- 1.21

103	Hexa	PCB-148	400.00	2.11e+08	1.30 y	39:34	-	0.72
104	Hexa	PCB-154	400.00	2.46e+08	1.28 y	40:03	-	0.83
105	Hexa	PCB-151	400.00	2.09e+08	1.29 y	40:42	-	0.71
106	Hexa	PCB-135	400.00	2.14e+08	1.26 y	40:55	-	0.73
107	Hexa	PCB-144	400.00	2.42e+08	1.27 y	41:01	-	0.82
108	Hexa	PCB-147	400.00	2.44e+08	1.29 y	41:09	-	0.83
109	Hexa	PCB-139/149	800.00	4.56e+08	1.27 y	41:25	-	0.77
110	Hexa	PCB-140	400.00	2.10e+08	1.30 y	41:37	-	0.71
111	Hexa	PCB-134/143	800.00	6.18e+08	1.24 y	42:03	-	0.94
112	Hexa	PCB-133/142	800.00	5.46e+08	1.24 y	42:20	-	0.83
113	Hexa	PCB-131	400.00	2.97e+08	1.24 y	42:31	-	0.90

114	Hexa	PCB-146/165	800.00	8.31e+08	1.24	y	42:43	- 1.26
115	Hexa	PCB-132/161	800.00	7.22e+08	1.24	y	42:58	- 1.09
116	Hexa	PCB-153	400.00	4.21e+08	1.25	y	43:08	- 1.27
117	Hexa	PCB-168	400.00	4.88e+08	1.24	y	43:20	- 1.48
118	Hexa	PCB-141	400.00	3.29e+08	1.24	y	43:53	- 1.05
119	Hexa	PCB-137	400.00	3.31e+08	1.24	y	44:16	- 1.06
120	Hexa	PCB-130	400.00	3.00e+08	1.24	y	44:22	- 0.96
121	Hexa	PCB-138/163/164	1200.00	1.27e+09	1.25	y	44:45	- 1.31
122	Hexa	PCB-158/160	800.00	8.83e+08	1.24	y	45:00	- 1.37
123	Hexa	PCB-129	400.00	2.76e+08	1.24	y	45:14	- 0.86
124	Hexa	PCB-166	400.00	4.30e+08	1.24	y	45:41	- 1.18
125	Hexa	PCB-159	400.00	4.02e+08	1.27	y	46:00	- 1.10
126	Hexa	PCB-128/162	800.00	7.56e+08	1.24	y	46:18	- 1.03
127	Hexa	PCB-167	400.00	4.81e+08	1.24	y	46:41	- 1.19
128	Hexa	PCB-156	400.00	4.44e+08	1.24	y	47:59	- 1.16
129	Hexa	PCB-157	400.00	4.52e+08	1.25	y	48:16	- 1.12
130	Hexa	PCB-169	400.00	4.05e+08	1.24	y	50:20	- 1.07
131	Hepta	PCB-188	400.00	4.10e+08	1.06	y	42:46	- 1.52
132	Hepta	PCB-184	400.00	4.29e+08	1.05	y	43:13	- 1.60
133	Hepta	PCB-179	400.00	3.39e+08	1.06	y	44:01	- 1.26
134	Hepta	PCB-176	400.00	3.89e+08	1.05	y	44:28	- 1.45
135	Hepta	PCB-186	400.00	3.92e+08	1.05	y	45:05	- 1.46
136	Hepta	PCB-178	400.00	2.70e+08	1.06	y	45:34	- 1.00
137	Hepta	PCB-175	400.00	2.66e+08	1.05	y	45:55	- 0.99
138	Hepta	PCB-182/187	800.00	6.75e+08	1.05	y	46:06	- 1.26
139	Hepta	PCB-183	400.00	3.18e+08	1.06	y	46:24	- 1.18
140	Hepta	PCB-185	400.00	3.60e+08	1.05	y	47:05	- 1.82
141	Hepta	PCB-174	400.00	2.91e+08	1.05	y	47:26	- 1.47
142	Hepta	PCB-181	400.00	2.68e+08	1.07	y	47:33	- 1.35
143	Hepta	PCB-177	400.00	2.53e+08	1.05	y	47:43	- 1.28
144	Hepta	PCB-171	400.00	3.19e+08	1.05	y	48:00	- 1.61
145	Hepta	PCB-173	400.00	2.24e+08	1.05	y	48:27	- 1.13
146	Hepta	PCB-172	400.00	3.36e+08	1.06	y	48:53	- 1.70
147	Hepta	PCB-192	400.00	3.55e+08	1.05	y	49:05	- 1.79
148	Hepta	PCB-180	400.00	2.65e+08	1.05	y	49:16	- 1.34
149	Hepta	PCB-193	400.00	3.34e+08	1.06	y	49:28	- 1.69
150	Hepta	PCB-191	400.00	3.32e+08	1.06	y	49:42	- 1.67
151	Hepta	PCB-170	400.00	2.49e+08	1.04	y	50:42	- 1.61
152	Hepta	PCB-190	400.00	3.45e+08	1.05	y	50:51	- 2.23
153	Hepta	PCB-189	400.00	3.17e+08	1.06	y	52:08	- 1.55
154	Octa	PCB-202	400.00	2.60e+08	0.91	y	48:13	- 1.10
155	Octa	PCB-201	400.00	2.75e+08	0.90	y	48:42	- 1.16
156	Octa	PCB-204	400.00	2.80e+08	0.91	y	48:51	- 1.18
157	Octa	PCB-197	400.00	2.59e+08	0.92	y	49:09	- 1.09
158	Octa	PCB-200	400.00	2.59e+08	0.91	y	49:59	- 1.09
159	Octa	PCB-198	400.00	1.81e+08	1.01	y	51:16	- 0.76
160	Octa	PCB-199	400.00	1.96e+08	0.84	y	51:21	- 0.82
161	Octa	PCB-196/203	800.00	4.10e+08	0.91	y	51:37	- 0.86
162	Octa	PCB-195	400.00	2.74e+08	0.91	y	52:46	- 1.25
163	Octa	PCB-194	400.00	2.60e+08	0.92	y	53:38	- 1.18

164	Octa	PCB-205	400.00	3.32e+08	0.92	y	53:55	-	1.51
165	Nona	PCB-208	400.00	2.75e+08	1.33	y	52:54	-	0.94
166	Nona	PCB-207	400.00	3.26e+08	1.32	y	53:12	-	1.12
167	Nona	PCB-206	400.00	1.78e+08	1.32	y	55:19	-	0.97
168	Deca	PCB-209	400.00	2.00e+08	1.19	y	56:35	-	1.17
169	Tot ╗	Total Mono-PCB	0.00	-	-	n	-	-	1.35
170	Tot ╗	Total Di-PCB	0.00	-	-	n	-	-	1.22
171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.10

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.15
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.06
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.18
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.23
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.90
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.11
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.41
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.99
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.32
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	1.02
182	Tot ╗	Total Deca-PCB	400.00	2.00e+08	1.19	y	56:35	-	1.17
183	Mono╗	13C-PCB-1	100.00	1.43e+08	3.35	y	16:24	-	0.77
184	Mono╗	13C-PCB-3	100.00	1.51e+08	3.41	y	18:54	-	0.81
185	Di-IS	13C-PCB-4	100.00	1.07e+08	1.60	y	20:12	-	0.57
186	Di-IS	13C-PCB-9	100.00	1.65e+08	1.57	y	21:55	-	0.88
187	Di-IS	13C-PCB-11	100.00	1.74e+08	1.58	y	25:13	-	0.93
188	Tri-╗	13C-PCB-19	100.00	9.04e+07	1.10	y	24:14	-	0.48
189	Tri-╗	13C-PCB-32	100.00	1.43e+08	1.10	y	27:06	-	0.77
190	Tri-╗	13C-PCB-28	100.00	1.36e+08	1.05	y	29:02	-	0.89
191	Tri-╗	13C-PCB-37	100.00	1.26e+08	1.06	y	32:52	-	0.82
192	Tetr╗	13C-PCB-54	100.00	1.26e+08	0.81	y	27:55	-	0.97
193	Tetr╗	13C-PCB-52	100.00	9.82e+07	0.78	y	31:24	-	0.76
194	Tetr╗	13C-PCB-47	100.00	1.05e+08	0.77	y	31:55	-	0.81
195	Tetr╗	13C-PCB-70	100.00	1.29e+08	0.79	y	35:25	-	1.00
196	Tetr╗	13C-PCB-80	100.00	1.35e+08	0.80	y	35:50	-	1.04
197	Tetr╗	13C-PCB-81	100.00	1.20e+08	0.78	y	38:56	-	0.93
198	Tetr╗	13C-PCB-77	100.00	1.27e+08	0.80	y	39:32	-	0.98
199	Pent╗	13C-PCB-104	100.00	8.83e+07	1.55	y	32:34	-	1.00
200	Pent╗	13C-PCB-95	100.00	6.77e+07	1.62	y	35:43	-	0.77
201	Pent╗	13C-PCB-101	100.00	7.03e+07	1.56	y	37:23	-	0.80
202	Pent╗	13C-PCB-97	100.00	6.24e+07	1.61	y	38:42	-	0.71
203	Pent╗	13C-PCB-123	100.00	7.82e+07	1.58	y	41:16	-	0.88
204	Pent╗	13C-PCB-118	100.00	8.64e+07	1.60	y	41:26	-	0.98
205	Pent╗	13C-PCB-114	100.00	1.01e+08	1.61	y	42:06	-	1.37
206	Pent╗	13C-PCB-105	100.00	1.02e+08	1.58	y	42:58	-	1.38
207	Pent╗	13C-PCB-127	100.00	1.09e+08	1.60	y	43:18	-	1.48
208	Pent╗	13C-PCB-126	100.00	9.62e+07	1.57	y	45:12	-	1.30
209	Hexa╗	13C-PCB-155	100.00	7.37e+07	1.30	y	36:56	-	0.83
210	Hexa╗	13C-PCB-153	100.00	8.26e+07	1.29	y	43:07	-	1.12
211	Hexa╗	13C-PCB-141	100.00	7.81e+07	1.29	y	43:51	-	1.06
212	Hexa	13C-PCB-138	100.00	8.07e+07	1.29	y	44:42	-	1.09
213	Hexa╗	13C-PCB-159	100.00	9.15e+07	1.26	y	46:00	-	1.24
214	Hexa╗	13C-PCB-167	100.00	1.01e+08	1.25	y	46:40	-	1.37
215	Hexa╗	13C-PCB-156	100.00	9.58e+07	1.27	y	47:59	-	1.30
216	Hexa╗	13C-PCB-157	100.00	1.01e+08	1.31	y	48:15	-	1.36
217	Hexa╗	13C-PCB-169	100.00	9.47e+07	1.29	y	50:19	-	1.28
218	Hept╗	13C-PCB-188	100.00	6.72e+07	0.46	y	42:45	-	0.91
219	Hept╗	13C-PCB-180	100.00	4.95e+07	0.46	y	49:15	-	0.67
220	Hept╗	13C-PCB-170	100.00	3.88e+07	0.47	y	50:41	-	0.53
221	Hept╗	13C-PCB-189	100.00	5.10e+07	0.48	y	52:07	-	0.69
222	Octa╗	13C-PCB-202	100.00	5.93e+07	0.90	y	48:11	-	0.80

223	Octa¬	13C-PCB-194	100.00	5.48e+07	0.91 y	53:37	-	0.80
224	Nona¬	13C-PCB-208	100.00	7.31e+07	0.78 y	52:53	-	1.07
225	Nona¬	13C-PCB-206	100.00	4.59e+07	0.80 y	55:18	-	0.67
226	Deca¬	13C-PCB-209	100.00	4.28e+07	1.18 y	56:34	-	0.63
227	DI-RS	13C-PCB-15	100.00	1.87e+08	1.59 y	25:55	-	1.00
228	Tri-¬	13C-PCB-31	100.00	1.53e+08	1.05 y	28:55	-	1.00
229	Tetr¬	13C-PCB-60	100.00	1.30e+08	0.78 y	36:40	-	1.00
230	Penta	13C-PCB-111	100.00	8.84e+07	1.58 y	39:07	-	1.00
231	Hexa¬	13C-PCB-128	100.00	7.38e+07	1.22 y	46:17	-	1.00
232	Octa¬	13C-PCB-205	100.00	6.83e+07	0.90 y	53:54	-	1.00

233	CRS		13C-PCB-79	100.00	1.31e+08	0.78	y	37:43	- 1.01
234	CRS		13C-PCB-178	100.00	4.40e+07	0.47	y	45:33	- 0.60
235	PS		13C-PCB-79	100.00	1.31e+08	0.78	y	37:43	- 1.09
236	PS		13C-PCB-178	100.00	4.40e+07	0.47	y	45:33	- 0.89

Filename: 140623E2 S: 6 Acquired: 23-JUN-14 17:01:39
Run: 140623E2 Analyte: ICal: PCBVG8-6-23-14 Results: 140623E2
Sample text: ST140623E2-6 PCB CS5 14F1606

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	750.00	1.47e+09	3.03 y	16:25	-	1.29
2	Mono	PCB-2	750.00	1.54e+09	3.03 y	18:42	-	1.26
3	Mono	PCB-3	750.00	1.85e+09	3.03 y	18:55	-	1.51
4	Di	PCB-4/10	3000.00	5.45e+09	1.65 y	20:15	-	1.62
5	Di	PCB-7/9	3000.00	6.53e+09	1.65 y	21:58	-	1.26
6	Di	PCB-6	1500.00	3.51e+09	1.66 y	22:36	-	1.35
7	Di	PCB-5/8	3000.00	6.19e+09	1.65 y	23:01	-	1.19
8	Di	PCB-14	1500.00	3.16e+09	1.66 y	24:04	-	1.15
9	Di	PCB-11	1500.00	3.07e+09	1.65 y	25:14	-	1.12
10	Di	PCB-12/13	3000.00	6.82e+09	1.65 y	25:38	-	1.24
11	Di	PCB-15	1500.00	3.68e+09	1.66 y	25:56	-	1.34
12	Tri	PCB-19	750.00	7.61e+08	1.06 y	24:15	-	1.09
13	Tri	PCB-30	750.00	1.28e+09	1.06 y	25:08	-	1.83
14	Tri	PCB-18	750.00	8.96e+08	1.06 y	25:51	-	0.82
15	Tri	PCB-17	750.00	1.03e+09	1.07 y	26:02	-	0.95
16	Tri	PCB-24/27	1500.00	2.73e+09	1.07 y	26:36	-	1.25
17	Tri	PCB-16/32	1500.00	2.10e+09	1.07 y	27:06	-	0.96
18	Tri	PCB-34	750.00	1.12e+09	1.02 y	27:52	-	1.09
19	Tri	PCB-23	750.00	1.37e+09	1.02 y	27:58	-	1.33
20	Tri	PCB-29	750.00	1.10e+09	1.00 y	28:13	-	1.06
21	Tri	PCB-26	750.00	1.23e+09	1.02 y	28:25	-	1.19
22	Tri	PCB-25	750.00	1.15e+09	0.98 y	28:35	-	1.11
23	Tri	PCB-31	750.00	1.08e+09	0.96 y	28:56	-	1.05
24	Tri	PCB-28	750.00	1.62e+09	1.02 y	29:03	-	1.57
25	Tri	PCB-20/21/33	2250.00	3.02e+09	0.99 y	29:39	-	0.98
26	Tri	PCB-22	750.00	1.22e+09	1.01 y	30:05	-	1.18
27	Tri	PCB-36	750.00	9.30e+08	0.97 y	30:41	-	0.99
28	Tri	PCB-39	750.00	9.84e+08	1.03 y	31:10	-	1.05
29	Tri	PCB-38	750.00	9.41e+08	0.97 y	31:56	-	1.00
30	Tri	PCB-35	750.00	1.09e+09	0.98 y	32:27	-	1.17
31	Tri	PCB-37	750.00	1.06e+09	0.97 y	32:53	-	1.13
32	Tetra	PCB-54	750.00	1.06e+09	0.76 y	27:57	-	1.09
33	Tetra	PCB-50	750.00	8.12e+08	0.76 y	29:06	-	0.83
34	Tetra	PCB-53	750.00	7.83e+08	0.75 y	29:44	-	1.05
35	Tetra	PCB-51	750.00	7.61e+08	0.75 y	30:04	-	1.02
36	Tetra	PCB-45	750.00	6.16e+08	0.75 y	30:30	-	0.82
37	Tetra	PCB-46	750.00	6.05e+08	0.76 y	30:59	-	0.81
38	Tetra	PCB-52/69	1500.00	2.06e+09	0.76 y	31:27	-	1.37
39	Tetra	PCB-73	750.00	9.51e+08	0.78 y	31:34	-	1.27
40	Tetra	PCB-43/49	1500.00	1.52e+09	0.76 y	31:44	-	1.02
41	Tetra	PCB-47	750.00	7.65e+08	0.74 y	31:56	-	0.98

42	Tetra	PCB-48/75	1500.00	1.93e+09	0.76 y	32:03	-	1.24
43	Tetra	PCB-65	750.00	9.32e+08	0.75 y	32:19	-	1.19
44	Tetra	PCB-62	750.00	9.33e+08	0.76 y	32:26	-	1.19
45	Tetra	PCB-44	750.00	6.53e+08	0.76 y	32:44	-	0.83
46	Tetra	PCB-42/59	1500.00	1.82e+09	0.76 y	32:57	-	1.17
47	Tetra	PCB-41/64/71/72	3000.00	3.95e+09	0.77 y	33:32	-	1.26
48	Tetra	PCB-68	750.00	1.08e+09	0.76 y	33:47	-	1.38
49	Tetra	PCB-40	750.00	5.59e+08	0.77 y	34:00	-	0.71
50	Tetra	PCB-57	750.00	1.01e+09	0.77 y	34:22	-	0.99
51	Tetra	PCB-67	750.00	1.07e+09	0.76 y	34:40	-	1.05
52	Tetra	PCB-58	750.00	9.72e+08	0.77 y	34:47	-	0.96

53	Tetra	PCB-63	750.00	9.30e+08	0.77 y	34:56	-	0.92
54	Tetra	PCB-74	750.00	1.25e+09	0.76 y	35:13	-	1.23
55	Tetra	PCB-61/70	1500.00	1.91e+09	0.76 y	35:24	-	0.94
56	Tetra	PCB-76/66	1500.00	2.06e+09	0.76 y	35:37	-	1.02
57	Tetra	PCB-80	750.00	1.23e+09	0.76 y	35:51	-	1.18
58	Tetra	PCB-55	750.00	1.10e+09	0.75 y	36:10	-	1.06
59	Tetra	PCB-56/60	1500.00	2.06e+09	0.76 y	36:40	-	0.98
60	Tetra	PCB-79	750.00	1.10e+09	0.77 y	37:44	-	1.06
61	Tetra	PCB-78	750.00	1.22e+09	0.77 y	38:26	-	1.24
62	Tetra	PCB-81	750.00	1.30e+09	0.78 y	38:58	-	1.33
63	Tetra	PCB-77	750.00	1.06e+09	0.79 y	39:33	-	1.09
64	Penta	PCB-104	750.00	8.02e+08	1.57 y	32:35	-	1.21
65	Penta	PCB-96	750.00	7.85e+08	1.58 y	33:50	-	1.19
66	Penta	PCB-103	750.00	6.73e+08	1.58 y	34:22	-	1.02
67	Penta	PCB-100	750.00	6.59e+08	1.58 y	34:44	-	1.00
68	Penta	PCB-94	750.00	5.35e+08	1.58 y	35:12	-	1.05
69	Penta	PCB-95/98/102	2250.00	1.88e+09	1.56 y	35:41	-	1.23
70	Penta	PCB-93	750.00	4.72e+08	1.58 y	35:49	-	0.93
71	Penta	PCB-88/91	1500.00	1.12e+09	1.56 y	36:05	-	1.10
72	Penta	PCB-121	750.00	8.92e+08	1.59 y	36:12	-	1.75
73	Penta	PCB-84/92	1500.00	1.15e+09	1.58 y	37:02	-	1.06
74	Penta	PCB-89	750.00	5.99e+08	1.56 y	37:14	-	1.10
75	Penta	PCB-90/101	1500.00	1.20e+09	1.56 y	37:24	-	1.11
76	Penta	PCB-113	750.00	7.64e+08	1.55 y	37:39	-	1.41
77	Penta	PCB-99	750.00	7.39e+08	1.58 y	37:44	-	1.36
78	Penta	PCB-119	750.00	7.86e+08	1.58 y	38:11	-	1.63
79	Penta	PCB-108/112	1500.00	1.31e+09	1.58 y	38:22	-	1.36
80	Penta	PCB-83	750.00	7.22e+08	1.58 y	38:31	-	1.49
81	Penta	PCB-97	750.00	5.75e+08	1.58 y	38:43	-	1.19
82	Penta	PCB-86	750.00	4.64e+08	1.55 y	38:51	-	0.96
83	Penta	PCB-87/117/125	2250.00	2.41e+09	1.59 y	38:59	-	1.66
84	Penta	PCB-111/115	1500.00	1.61e+09	1.57 y	39:08	-	1.67
85	Penta	PCB-85/116	1500.00	1.32e+09	1.57 y	39:16	-	1.37
86	Penta	PCB-120	750.00	8.54e+08	1.57 y	39:30	-	1.77
87	Penta	PCB-110	750.00	7.47e+08	1.59 y	39:39	-	1.55
88	Penta	PCB-82	750.00	4.68e+08	1.56 y	40:16	-	0.76
89	Penta	PCB-124	750.00	9.82e+08	1.56 y	40:57	-	1.60
90	Penta	PCB-107/109	1500.00	1.67e+09	1.57 y	41:06	-	1.36
91	Penta	PCB-123	750.00	7.28e+08	1.57 y	41:17	-	1.19
92	Penta	PCB-106/118	1500.00	1.64e+09	1.59 y	41:29	-	1.20
93	Penta	PCB-114	750.00	1.06e+09	1.62 y	42:07	-	1.28
94	Penta	PCB-122	750.00	9.29e+08	1.66 y	42:15	-	1.12
95	Penta	PCB-105	750.00	1.10e+09	1.63 y	42:59	-	1.33
96	Penta	PCB-127	750.00	1.16e+09	1.65 y	43:18	-	1.32
97	Penta	PCB-126	750.00	9.26e+08	1.64 y	45:13	-	1.21
98	Hexa	PCB-155	750.00	6.31e+08	1.29 y	36:58	-	1.16
99	Hexa	PCB-150	750.00	5.78e+08	1.28 y	38:13	-	1.06
100	Hexa	PCB-152	750.00	6.42e+08	1.29 y	38:42	-	1.18
101	Hexa	PCB-145	750.00	7.08e+08	1.29 y	39:09	-	1.30
102	Hexa	PCB-136	750.00	6.49e+08	1.27 y	39:28	-	1.19

103	Hexa	PCB-148	750.00	4.68e+08	1.28 y	39:34	-	0.86
104	Hexa	PCB-154	750.00	4.91e+08	1.28 y	40:03	-	0.90
105	Hexa	PCB-151	750.00	4.20e+08	1.28 y	40:42	-	0.77
106	Hexa	PCB-135	750.00	4.60e+08	1.27 y	40:55	-	0.84
107	Hexa	PCB-144	750.00	4.48e+08	1.29 y	41:02	-	0.82
108	Hexa	PCB-147	750.00	5.04e+08	1.28 y	41:10	-	0.93
109	Hexa	PCB-139/149	1500.00	9.10e+08	1.28 y	41:26	-	0.84
110	Hexa	PCB-140	750.00	4.13e+08	1.28 y	41:37	-	0.76
111	Hexa	PCB-134/143	1500.00	1.26e+09	1.24 y	42:02	-	0.95
112	Hexa	PCB-133/142	1500.00	1.12e+09	1.25 y	42:21	-	0.85
113	Hexa	PCB-131	750.00	5.92e+08	1.24 y	42:30	-	0.90

114	Hexa	PCB-146/165	1500.00	1.70e+09	1.24 y	42:43	-	1.29
115	Hexa	PCB-132/161	1500.00	1.50e+09	1.24 y	42:58	-	1.14
116	Hexa	PCB-153	750.00	8.18e+08	1.25 y	43:08	-	1.24
117	Hexa	PCB-168	750.00	1.00e+09	1.24 y	43:21	-	1.52
118	Hexa	PCB-141	750.00	6.67e+08	1.24 y	43:52	-	1.09
119	Hexa	PCB-137	750.00	7.01e+08	1.23 y	44:15	-	1.14
120	Hexa	PCB-130	750.00	5.55e+08	1.25 y	44:22	-	0.90
121	Hexa	PCB-138/163/164	2250.00	2.58e+09	1.24 y	44:44	-	1.38
122	Hexa	PCB-158/160	1500.00	1.76e+09	1.24 y	44:59	-	1.41
123	Hexa	PCB-129	750.00	5.55e+08	1.24 y	45:14	-	0.89
124	Hexa	PCB-166	750.00	8.60e+08	1.24 y	45:41	-	1.21
125	Hexa	PCB-159	750.00	8.27e+08	1.24 y	46:00	-	1.16
126	Hexa	PCB-128/162	1500.00	1.52e+09	1.24 y	46:18	-	1.07
127	Hexa	PCB-167	750.00	9.41e+08	1.24 y	46:42	-	1.24
128	Hexa	PCB-156	750.00	8.95e+08	1.24 y	47:59	-	1.19
129	Hexa	PCB-157	750.00	9.06e+08	1.25 y	48:16	-	1.15
130	Hexa	PCB-169	750.00	8.21e+08	1.25 y	50:21	-	1.12
131	Hepta	PCB-188	750.00	8.34e+08	1.05 y	42:46	-	1.61
132	Hepta	PCB-184	750.00	8.48e+08	1.06 y	43:13	-	1.64
133	Hepta	PCB-179	750.00	6.69e+08	1.06 y	44:00	-	1.29
134	Hepta	PCB-176	750.00	7.45e+08	1.06 y	44:28	-	1.44
135	Hepta	PCB-186	750.00	7.39e+08	1.05 y	45:05	-	1.43
136	Hepta	PCB-178	750.00	5.20e+08	1.06 y	45:34	-	1.00
137	Hepta	PCB-175	750.00	5.24e+08	1.06 y	45:55	-	1.01
138	Hepta	PCB-182/187	1500.00	1.33e+09	1.05 y	46:05	-	1.28
139	Hepta	PCB-183	750.00	6.17e+08	1.06 y	46:25	-	1.19
140	Hepta	PCB-185	750.00	7.01e+08	1.06 y	47:04	-	1.89
141	Hepta	PCB-174	750.00	5.17e+08	1.05 y	47:26	-	1.40
142	Hepta	PCB-181	750.00	5.76e+08	1.06 y	47:33	-	1.56
143	Hepta	PCB-177	750.00	4.88e+08	1.06 y	47:42	-	1.32
144	Hepta	PCB-171	750.00	6.45e+08	1.06 y	48:01	-	1.74
145	Hepta	PCB-173	750.00	4.34e+08	1.05 y	48:26	-	1.17
146	Hepta	PCB-172	750.00	6.78e+08	1.06 y	48:53	-	1.83
147	Hepta	PCB-192	750.00	6.93e+08	1.05 y	49:04	-	1.87
148	Hepta	PCB-180	750.00	5.13e+08	1.05 y	49:17	-	1.39
149	Hepta	PCB-193	750.00	6.52e+08	1.06 y	49:29	-	1.76
150	Hepta	PCB-191	750.00	6.47e+08	1.05 y	49:42	-	1.75
151	Hepta	PCB-170	750.00	4.90e+08	1.06 y	50:41	-	1.66
152	Hepta	PCB-190	750.00	6.88e+08	1.05 y	50:52	-	2.33
153	Hepta	PCB-189	750.00	6.33e+08	1.05 y	52:08	-	1.58
154	Octa	PCB-202	750.00	5.06e+08	0.91 y	48:13	-	1.14
155	Octa	PCB-201	750.00	5.32e+08	0.91 y	48:42	-	1.20
156	Octa	PCB-204	750.00	5.54e+08	0.92 y	48:52	-	1.25
157	Octa	PCB-197	750.00	4.91e+08	0.92 y	49:10	-	1.11
158	Octa	PCB-200	750.00	4.81e+08	0.92 y	50:00	-	1.09
159	Octa	PCB-198	750.00	3.58e+08	0.91 y	51:16	-	0.81
160	Octa	PCB-199	750.00	3.69e+08	0.92 y	51:23	-	0.83
161	Octa	PCB-196/203	1500.00	8.08e+08	0.92 y	51:38	-	0.91
162	Octa	PCB-195	750.00	5.64e+08	0.92 y	52:47	-	1.30
163	Octa	PCB-194	750.00	5.18e+08	0.92 y	53:40	-	1.20

164	Octa	PCB-205	750.00	6.92e+08	0.92	y	53:57	-	1.60
165	Nona	PCB-208	750.00	5.53e+08	1.33	y	52:55	-	0.94
166	Nona	PCB-207	750.00	6.58e+08	1.33	y	53:14	-	1.12
167	Nona	PCB-206	750.00	3.54e+08	1.32	y	55:22	-	1.03
168	Deca	PCB-209	750.00	3.89e+08	1.19	y	56:40	-	1.22
169	Tot ╗	Total Mono-PCB	0.00	-	-	n	-	-	1.36
170	Tot ╗	Total Di-PCB	0.00	-	-	n	-	-	1.25
171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.15

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.12
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.09
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.23
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.25
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.96
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.14
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.46
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.03
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.36
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	1.03
182	Tot ╗	Total Deca-PCB	750.00	3.89e+08	1.19	y	56:40	-	1.22
183	Mono╗	13C-PCB-1	100.00	1.51e+08	3.37	y	16:24	-	0.77
184	Mono╗	13C-PCB-3	100.00	1.63e+08	3.42	y	18:54	-	0.83
185	Di-IS	13C-PCB-4	100.00	1.12e+08	1.60	y	20:12	-	0.57
186	Di-IS	13C-PCB-9	100.00	1.73e+08	1.58	y	21:55	-	0.88
187	Di-IS	13C-PCB-11	100.00	1.84e+08	1.56	y	25:13	-	0.94
188	Tri-╗	13C-PCB-19	100.00	9.33e+07	1.09	y	24:14	-	0.48
189	Tri-╗	13C-PCB-32	100.00	1.45e+08	1.09	y	27:05	-	0.74
190	Tri-╗	13C-PCB-28	100.00	1.37e+08	1.03	y	29:01	-	1.02
191	Tri-╗	13C-PCB-37	100.00	1.25e+08	1.07	y	32:52	-	0.93
192	Tetr╗	13C-PCB-54	100.00	1.30e+08	0.80	y	27:56	-	0.98
193	Tetr╗	13C-PCB-52	100.00	9.99e+07	0.80	y	31:25	-	0.75
194	Tetr╗	13C-PCB-47	100.00	1.04e+08	0.77	y	31:55	-	0.78
195	Tetr╗	13C-PCB-70	100.00	1.35e+08	0.78	y	35:24	-	1.02
196	Tetr╗	13C-PCB-80	100.00	1.39e+08	0.80	y	35:49	-	1.05
197	Tetr╗	13C-PCB-81	100.00	1.30e+08	0.79	y	38:56	-	0.98
198	Tetr╗	13C-PCB-77	100.00	1.29e+08	0.80	y	39:32	-	0.97
199	Pent╗	13C-PCB-104	100.00	8.83e+07	1.59	y	32:34	-	0.96
200	Pent╗	13C-PCB-95	100.00	6.79e+07	1.55	y	35:43	-	0.74
201	Pent╗	13C-PCB-101	100.00	7.25e+07	1.55	y	37:23	-	0.79
202	Pent╗	13C-PCB-97	100.00	6.44e+07	1.57	y	38:42	-	0.70
203	Pent╗	13C-PCB-123	100.00	8.18e+07	1.58	y	41:16	-	0.89
204	Pent╗	13C-PCB-118	100.00	9.11e+07	1.59	y	41:27	-	0.99
205	Pent╗	13C-PCB-114	100.00	1.10e+08	1.61	y	42:06	-	1.45
206	Pent╗	13C-PCB-105	100.00	1.10e+08	1.59	y	42:58	-	1.45
207	Pent╗	13C-PCB-127	100.00	1.18e+08	1.61	y	43:18	-	1.54
208	Pent╗	13C-PCB-126	100.00	1.02e+08	1.57	y	45:13	-	1.34
209	Hexa╗	13C-PCB-155	100.00	7.27e+07	1.27	y	36:56	-	0.79
210	Hexa╗	13C-PCB-153	100.00	8.79e+07	1.29	y	43:07	-	1.15
211	Hexa╗	13C-PCB-141	100.00	8.18e+07	1.28	y	43:52	-	1.07
212	Hexa	13C-PCB-138	100.00	8.32e+07	1.27	y	44:43	-	1.09
213	Hexa╗	13C-PCB-159	100.00	9.51e+07	1.28	y	45:59	-	1.25
214	Hexa╗	13C-PCB-167	100.00	1.01e+08	1.26	y	46:41	-	1.33
215	Hexa╗	13C-PCB-156	100.00	1.01e+08	1.27	y	47:59	-	1.32
216	Hexa╗	13C-PCB-157	100.00	1.05e+08	1.31	y	48:15	-	1.38
217	Hexa╗	13C-PCB-169	100.00	9.82e+07	1.28	y	50:20	-	1.29
218	Hept╗	13C-PCB-188	100.00	6.91e+07	0.47	y	42:45	-	0.91
219	Hept╗	13C-PCB-180	100.00	4.94e+07	0.48	y	49:16	-	0.65
220	Hept╗	13C-PCB-170	100.00	3.94e+07	0.46	y	50:41	-	0.52
221	Hept╗	13C-PCB-189	100.00	5.34e+07	0.46	y	52:08	-	0.70
222	Octa╗	13C-PCB-202	100.00	5.91e+07	0.90	y	48:12	-	0.78

223	Octa╗	13C-PCB-194	100.00	5.78e+07	0.93	y	53:39	-	0.79
224	Nona╗	13C-PCB-208	100.00	7.83e+07	0.77	y	52:54	-	1.07
225	Nona╗	13C-PCB-206	100.00	4.57e+07	0.77	y	55:21	-	0.62
226	Deca╗	13C-PCB-209	100.00	4.25e+07	1.20	y	56:39	-	0.58
227	DI-RS	13C-PCB-15	100.00	1.96e+08	1.59	y	25:55	-	1.00
228	Tri-╗	13C-PCB-31	100.00	1.34e+08	1.04	y	28:55	-	1.00
229	Tetr╗	13C-PCB-60	100.00	1.33e+08	0.78	y	36:39	-	1.00
230	Penta	13C-PCB-111	100.00	9.21e+07	1.57	y	39:07	-	1.00
231	Hexa╗	13C-PCB-128	100.00	7.63e+07	1.27	y	46:17	-	1.00
232	Octa╗	13C-PCB-205	100.00	7.35e+07	0.92	y	53:56	-	1.00

233	CRS	13C-PCB-79	100.00	1.38e+08	0.77 y	37:43	-	1.04
234	CRS	13C-PCB-178	100.00	4.43e+07	0.45 y	45:33	-	0.58
235	PS	13C-PCB-79	100.00	1.38e+08	0.77 y	37:43	-	1.06
236	PS	13C-PCB-178	100.00	4.43e+07	0.45 y	45:33	-	0.90

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140623E2-4 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140623E2 S#4 Analysis Date: 23-JUN-14 Time: 14:53:49

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	3.00	2.66-3.60	y	51.3	37.5-62.5	PCB-52/69	0.76	0.65-0.89	y	99.8	75.0-125
PCB-2	3.01	2.66-3.60	y	51.8	37.5-62.5	PCB-73	0.78	0.65-0.89	y	51.0	37.5-62.5
PCB-3	3.01	2.66-3.60	y	51.3	37.5-62.5	PCB-43/49	0.76	0.65-0.89	y	97.5	75.0-125
PCB-4/10	1.65	1.33-1.79	y	200.1	150-250	PCB-47	0.76	0.65-0.89	y	49.3	37.5-62.5
PCB-7/9	1.65	1.33-1.79	y	199.3	150-250	PCB-48/75	0.77	0.65-0.89	y	95.6	75.0-125
PCB-6	1.66	1.33-1.79	y	100.0	75.0-125	PCB-65	0.76	0.65-0.89	y	50.2	37.5-62.5
PCB-5/8	1.64	1.33-1.79	y	200.2	150-250	PCB-62	0.76	0.65-0.89	y	44.6	37.5-62.5
PCB-14	1.66	1.33-1.79	y	102.7	75.0-125	PCB-44	0.77	0.65-0.89	y	46.7	37.5-62.5
PCB-11	1.65	1.33-1.79	y	101.7	75.0-125	PCB-42/59	0.76	0.65-0.89	y	95.3	75.0-125
PCB-12/13	1.65	1.33-1.79	y	200.4	150-250	PCB-41/64/71/72	0.77	0.65-0.89	y	187.9	150-250
PCB-15	1.66	1.33-1.79	y	100.2	75.0-125	PCB-68	0.76	0.65-0.89	y	48.0	37.5-62.5
PCB-19	1.05	0.88-1.20	y	49.8	37.5-62.5	PCB-40	0.77	0.65-0.89	y	48.5	37.5-62.5
PCB-30	1.06	0.88-1.20	y	49.4	37.5-62.5	PCB-57	0.76	0.65-0.89	y	50.7	37.5-62.5
PCB-18	1.05	0.88-1.20	y	51.3	37.5-62.5	PCB-67	0.76	0.65-0.89	y	49.2	37.5-62.5
PCB-17	1.05	0.88-1.20	y	50.5	37.5-62.5	PCB-58	0.79	0.65-0.89	y	50.1	37.5-62.5
PCB-24/27	1.05	0.88-1.20	y	101.3	75.0-125	PCB-63	0.76	0.65-0.89	y	49.0	37.5-62.5
PCB-16/32	1.06	0.88-1.20	y	100.2	75.0-125	PCB-74	0.77	0.65-0.89	y	48.3	37.5-62.5
PCB-34	1.03	0.88-1.20	y	47.9	37.5-62.5	PCB-61/70	0.77	0.65-0.89	y	99.9	75.0-125
PCB-23	1.06	0.88-1.20	y	47.9	37.5-62.5	PCB-76/66	0.77	0.65-0.89	y	99.0	75.0-125
PCB-29	1.04	0.88-1.20	y	49.2	37.5-62.5	PCB-80	0.77	0.65-0.89	y	51.1	37.5-62.5
PCB-26	1.04	0.88-1.20	y	48.9	37.5-62.5	PCB-55	0.77	0.65-0.89	y	51.8	37.5-62.5
PCB-25	1.06	0.88-1.20	y	50.3	37.5-62.5	PCB-56/60	0.77	0.65-0.89	y	98.9	75.0-125
PCB-31	1.02	0.88-1.20	y	48.2	37.5-62.5	PCB-79	0.78	0.65-0.89	y	49.6	37.5-62.5
PCB-28	1.04	0.88-1.20	y	49.8	37.5-62.5	PCB-78	0.77	0.65-0.89	y	49.1	37.5-62.5
PCB-20/21/33	1.03	0.88-1.20	y	149.6	112.5-225	PCB-81	0.78	0.65-0.89	y	48.4	37.5-62.5
PCB-22	1.04	0.88-1.20	y	50.9	37.5-62.5	PCB-77	0.79	0.65-0.89	y	49.2	37.5-62.5
PCB-36	1.03	0.88-1.20	y	51.8	37.5-62.5	PCB-104	1.57	1.32-1.78	y	50.6	37.5-62.5
PCB-39	1.02	0.88-1.20	y	53.7	37.5-62.5	PCB-96	1.56	1.32-1.78	y	49.5	37.5-62.5
PCB-38	1.03	0.88-1.20	y	51.1	37.5-62.5	PCB-103	1.56	1.32-1.78	y	48.8	37.5-62.5
PCB-35	1.03	0.88-1.20	y	47.9	37.5-62.5	PCB-100	1.58	1.32-1.78	y	49.2	37.5-62.5
PCB-37	1.02	0.88-1.20	y	48.4	37.5-62.5	PCB-94	1.55	1.32-1.78	y	48.1	37.5-62.5
PCB-54	0.78	0.65-0.89	y	49.7	37.5-62.5	PCB-95/98/102	1.55	1.32-1.78	y	149.1	112.5-225
PCB-50	0.77	0.65-0.89	y	49.7	37.5-62.5	PCB-93	1.58	1.32-1.78	y	50.1	37.5-62.5
PCB-53	0.75	0.65-0.89	y	50.5	37.5-62.5	PCB-88/91	1.58	1.32-1.78	y	100.5	75.0-125
PCB-51	0.77	0.65-0.89	y	49.6	37.5-62.5	PCB-121	1.60	1.32-1.78	y	50.2	37.5-62.5
PCB-45	0.77	0.65-0.89	y	51.4	37.5-62.5						
PCB-46	0.76	0.65-0.89	y	49.3	37.5-62.5						

Analyst: DMS

Date: 6/24/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140623E2-4 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140623E2 S#4 Analysis Date: 23-JUN-14 Time: 14:53:49

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-84/92	1.56	1.32-1.78	y	99.2	75.0-125	PCB-140	1.27	1.05-1.43	y	48.3	37.5-62.5
PCB-89	1.58	1.32-1.78	y	50.3	37.5-62.5	PCB-134/143	1.25	1.05-1.43	y	97.1	75.0-125
PCB-90/101	1.56	1.32-1.78	y	100.3	75.0-125	PCB-133/142	1.24	1.05-1.43	y	97.4	75.0-125
PCB-113	1.57	1.32-1.78	y	52.7	37.5-62.5	PCB-131	1.23	1.05-1.43	y	49.1	37.5-62.5
PCB-99	1.60	1.32-1.78	y	47.7	37.5-62.5	PCB-146/165	1.25	1.05-1.43	y	98.5	75.0-125
PCB-119	1.56	1.32-1.78	y	49.8	37.5-62.5	PCB-132/161	1.31	1.05-1.43	y	98.0	75.0-125
PCB-108/112	1.58	1.32-1.78	y	100.2	75.0-125	PCB-153	1.16	1.05-1.43	y	49.2	37.5-62.5
PCB-83	1.57	1.32-1.78	y	49.2	37.5-62.5	PCB-168	1.25	1.05-1.43	y	50.1	37.5-62.5
PCB-97	1.55	1.32-1.78	y	49.4	37.5-62.5	PCB-141	1.24	1.05-1.43	y	48.7	37.5-62.5
PCB-86	1.55	1.32-1.78	y	47.3	37.5-62.5	PCB-137	1.23	1.05-1.43	y	49.3	37.5-62.5
PCB-87/117/125	1.62	1.32-1.78	y	153.7	112.5-225	PCB-130	1.23	1.05-1.43	y	50.2	37.5-62.5
PCB-111/115	1.51	1.32-1.78	y	98.7	75.0-125	PCB-138/163/164	1.24	1.05-1.43	y	147.8	112.5-225
PCB-85/116	1.58	1.32-1.78	y	100.6	75.0-125	PCB-158/160	1.23	1.05-1.43	y	99.9	75.0-125
PCB-120	1.59	1.32-1.78	y	48.7	37.5-62.5	PCB-129	1.24	1.05-1.43	y	49.1	37.5-62.5
PCB-110	1.57	1.32-1.78	y	50.0	37.5-62.5	PCB-166	1.24	1.05-1.43	y	49.5	37.5-62.5
PCB-82	1.55	1.32-1.78	y	49.8	37.5-62.5	PCB-159	1.23	1.05-1.43	y	49.9	37.5-62.5
PCB-124	1.58	1.32-1.78	y	48.7	37.5-62.5	PCB-128/162	1.23	1.05-1.43	y	97.4	75.0-125
PCB-107/109	1.59	1.32-1.78	y	102.0	75.0-125	PCB-167	1.22	1.05-1.43	y	50.2	37.5-62.5
PCB-123	1.59	1.32-1.78	y	50.6	37.5-62.5	PCB-156	1.25	1.05-1.43	y	50.3	37.5-62.5
PCB-106/118	1.59	1.32-1.78	y	100.2	75.0-125	PCB-157	1.24	1.05-1.43	y	48.4	37.5-62.5
PCB-114	1.65	1.32-1.78	y	50.6	37.5-62.5	PCB-169	1.27	1.05-1.43	y	48.4	37.5-62.5
PCB-122	1.66	1.32-1.78	y	49.6	37.5-62.5	PCB-188	1.05	0.89-1.21	y	49.3	37.5-62.5
PCB-105	1.64	1.32-1.78	y	49.4	37.5-62.5	PCB-184	1.06	0.89-1.21	y	49.1	37.5-62.5
PCB-127	1.67	1.32-1.78	y	47.6	37.5-62.5	PCB-179	1.06	0.89-1.21	y	49.7	37.5-62.5
PCB-126	1.63	1.32-1.78	y	49.7	37.5-62.5	PCB-176	1.04	0.89-1.21	y	49.5	37.5-62.5
PCB-155	1.27	1.05-1.43	y	49.7	37.5-62.5	PCB-186	1.05	0.89-1.21	y	49.8	37.5-62.5
PCB-150	1.29	1.05-1.43	y	50.1	37.5-62.5	PCB-178	1.05	0.89-1.21	y	49.4	37.5-62.5
PCB-152	1.30	1.05-1.43	y	49.4	37.5-62.5	PCB-175	1.05	0.89-1.21	y	49.6	37.5-62.5
PCB-145	1.28	1.05-1.43	y	49.5	37.5-62.5	PCB-182/187	1.05	0.89-1.21	y	96.9	75.0-125
PCB-136	1.29	1.05-1.43	y	49.0	37.5-62.5	PCB-183	1.05	0.89-1.21	y	47.6	37.5-62.5
PCB-148	1.30	1.05-1.43	y	49.6	37.5-62.5	PCB-185	1.07	0.89-1.21	y	49.3	37.5-62.5
PCB-154	1.28	1.05-1.43	y	48.4	37.5-62.5	PCB-174	1.02	0.89-1.21	y	51.7	37.5-62.5
PCB-151	1.29	1.05-1.43	y	47.9	37.5-62.5	PCB-181	1.06	0.89-1.21	y	49.2	37.5-62.5
PCB-135	1.26	1.05-1.43	y	48.7	37.5-62.5	PCB-177	1.05	0.89-1.21	y	50.0	37.5-62.5
PCB-144	1.30	1.05-1.43	y	46.6	37.5-62.5	PCB-171	1.07	0.89-1.21	y	50.3	37.5-62.5
PCB-147	1.30	1.05-1.43	y	48.2	37.5-62.5	PCB-173	1.04	0.89-1.21	y	50.8	37.5-62.5
PCB-139/149	1.28	1.05-1.43	y	96.8	75.0-125	PCB-172	1.07	0.89-1.21	y	50.2	37.5-62.5

Analyst: DMS

Date: 6/24/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140623E2-4 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140623E2 S#4 Analysis Date: 23-JUN-14 Time: 14:53:49

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-192	1.06	0.89-1.21	y	51.0	37.5-62.5
PCB-180	1.05	0.89-1.21	y	50.1	37.5-62.5
PCB-193	1.07	0.89-1.21	y	50.1	37.5-62.5
PCB-191	1.07	0.89-1.21	y	49.6	37.5-62.5
PCB-170	1.05	0.89-1.21	y	50.8	37.5-62.5
PCB-190	1.06	0.89-1.21	y	50.5	37.5-62.5
PCB-189	1.05	0.89-1.21	y	50.0	37.5-62.5
PCB-202	0.94	0.76-1.02	y	49.2	37.5-62.5
PCB-201	0.91	0.76-1.02	y	49.1	37.5-62.5
PCB-204	0.91	0.76-1.02	y	50.1	37.5-62.5
PCB-197	0.91	0.76-1.02	y	49.9	37.5-62.5
PCB-200	0.90	0.76-1.02	y	50.1	37.5-62.5
PCB-198	0.92	0.76-1.02	y	51.1	37.5-62.5
PCB-199	0.91	0.76-1.02	y	47.9	37.5-62.5
PCB-196/203	0.92	0.76-1.02	y	100.1	75.0-125
PCB-195	0.89	0.76-1.02	y	50.7	37.5-62.5
PCB-194	0.92	0.76-1.02	y	49.2	37.5-62.5
PCB-205	0.92	0.76-1.02	y	49.4	37.5-62.5
PCB-208	1.34	1.14-1.54	y	49.7	37.5-62.5
PCB-207	1.32	1.14-1.54	y	49.8	37.5-62.5
PCB-206	1.36	1.14-1.54	y	49.3	37.5-62.5
PCB-209	1.21	0.99-1.33	y	51.1	37.5-62.5

Analyst: DMS

Date: 6/24/14

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140623E2-4 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140623E2 S#4 Analysis Date: 23-JUN-14 Time: 14:53:49

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-1	3.37	2.66-3.60	y	98.7	50.0-145
13C-PCB-3	3.41	2.66-3.60	y	94.8	50.0-145
13C-PCB-4	1.58	1.33-1.79	y	99.7	50.0-145
13C-PCB-9	1.59	1.33-1.79	y	99.2	50.0-145
13C-PCB-11	1.57	1.33-1.79	y	98.2	50.0-145
13C-PCB-19	1.07	0.88-1.20	y	99.8	50.0-145
13C-PCB-32	1.09	0.88-1.20	y	98.2	50.0-145
13C-PCB-28	1.06	0.88-1.20	y	98.7	50.0-145
13C-PCB-37	1.07	0.88-1.20	y	94.4	50.0-145
13C-PCB-54	0.81	0.65-0.89	y	100.9	50.0-145
13C-PCB-52	0.80	0.65-0.89	y	100.5	50.0-145
13C-PCB-47	0.79	0.65-0.89	y	100.7	50.0-145
13C-PCB-70	0.78	0.65-0.89	y	97.6	50.0-145
13C-PCB-80	0.80	0.65-0.89	y	98.0	50.0-145
13C-PCB-81	0.79	0.65-0.89	y	96.6	50.0-145
13C-PCB-77	0.78	0.65-0.89	y	96.6	50.0-145
13C-PCB-104	1.57	1.32-1.78	y	100.0	50.0-145
13C-PCB-95	1.59	1.32-1.78	y	99.4	50.0-145
13C-PCB-101	1.54	1.32-1.78	y	98.6	50.0-145
13C-PCB-97	1.59	1.32-1.78	y	98.2	50.0-145
13C-PCB-123	1.61	1.32-1.78	y	96.8	50.0-145
13C-PCB-118	1.58	1.32-1.78	y	95.4	50.0-145
13C-PCB-114	1.60	1.32-1.78	y	98.7	50.0-145
13C-PCB-105	1.60	1.32-1.78	y	96.9	50.0-145
13C-PCB-127	1.57	1.32-1.78	y	98.2	50.0-145
13C-PCB-126	1.58	1.32-1.78	y	99.9	50.0-145
13C-PCB-155	1.29	1.05-1.43	y	99.1	50.0-145
13C-PCB-153	1.29	1.05-1.43	y	99.7	50.0-145
13C-PCB-141	1.28	1.05-1.43	y	100.0	50.0-145
13C-PCB-138	1.29	1.05-1.43	y	101.1	50.0-145
13C-PCB-159	1.27	1.05-1.43	y	98.0	50.0-145
13C-PCB-167	1.30	1.05-1.43	y	98.4	50.0-145
13C-PCB-156	1.29	1.05-1.43	y	98.4	50.0-145
13C-PCB-157	1.29	1.05-1.43	y	97.7	50.0-145

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-169	1.27	1.05-1.43	y	96.7	50 - 145
13C-PCB-188	0.46	0.38-0.52	y	100.6	50 - 145
13C-PCB-180	0.47	0.38-0.52	y	97.7	50 - 145
13C-PCB-170	0.47	0.38-0.52	y	97.2	50 - 145
13C-PCB-189	0.47	0.38-0.52	y	96.3	50 - 145
13C-PCB-202	0.94	0.76-1.02	y	97.2	50 - 145
13C-PCB-194	0.92	0.76-1.02	y	99.4	50 - 145
13C-PCB-208	0.78	0.65-0.89	y	99.5	50 - 145
13C-PCB-206	0.78	0.65-0.89	y	100.0	50 - 145
13C-PCB-209	1.23	0.99-1.33	y	96.9	50 - 145

CRS vs. RS

13C-PCB-79	0.79	0.65-0.89	y	98.3	75 - 125
13C-PCB-178	0.46	0.38-0.52	y	101.1	75 - 125

Analyst: DMS

Date: 6/24/14

Client ID: PCB CS3 14F1302 Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49 ConCal: NA

Lab ID: ST140623E2-4 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
	PCB-1	9.40e+07	3.00 y	1.19	16:25	1.001	0.996	1.006	51.3300
	PCB-2	9.45e+07	3.01 y	1.18	18:41	0.989	0.984	0.994	51.8481
	PCB-3	1.13e+08	3.01 y	1.43	18:55	1.001	0.996	1.006	51.3028
	PCB-4/10	3.27e+08	1.65 y	1.57	20:14	1.002	0.997	1.007	200.078
	PCB-7/9	3.82e+08	1.65 y	1.21	21:57	0.870	0.866	0.874	199.310
	PCB-6	2.07e+08	1.66 y	1.30	22:35	0.895	0.890	0.899	100.033
	PCB-5/8	3.65e+08	1.64 y	1.15	23:00	0.912	0.907	0.917	200.175
	PCB-14	1.87e+08	1.66 y	1.11	24:04	0.954	0.949	0.959	102.750
	PCB-11	1.81e+08	1.65 y	1.09	25:14	1.000	0.995	1.005	101.723
	PCB-12/13	3.92e+08	1.65 y	1.19	25:38	1.016	1.011	1.021	200.431
	PCB-15	2.11e+08	1.66 y	1.28	25:56	1.028	1.023	1.033	100.196
	PCB-19	4.92e+07	1.05 y	1.04	24:15	1.001	0.996	1.006	49.8495
	PCB-30	7.99e+07	1.06 y	1.71	25:07	1.037	1.032	1.042	49.3635
	PCB-18	5.58e+07	1.05 y	0.78	25:51	0.954	0.949	0.959	51.2756
	PCB-17	6.48e+07	1.05 y	0.92	26:02	0.961	0.956	0.966	50.4844
	PCB-24/27	1.68e+08	1.05 y	1.19	26:36	0.982	0.977	0.987	101.312
-	PCB-16/32	1.31e+08	1.06 y	0.94	27:06	1.000	0.995	1.005	100.158
-	PCB-34	7.59e+07	1.03 y	1.14	27:52	0.960	0.955	0.965	47.8540
	PCB-23	8.55e+07	1.06 y	1.28	27:58	0.964	0.959	0.969	47.9079
	PCB-29	7.42e+07	1.04 y	1.08	28:13	0.972	0.967	0.977	49.2142
	PCB-26	8.24e+07	1.04 y	1.21	28:25	0.979	0.974	0.984	48.9217
	PCB-25	8.85e+07	1.06 y	1.26	28:34	0.984	0.979	0.989	50.2567
	PCB-31	8.64e+07	1.02 y	1.28	28:56	0.997	0.992	1.002	48.1924
	PCB-28	1.19e+08	1.04 y	1.71	29:02	1.000	0.995	1.005	49.7990
	PCB-20/21/33	2.26e+08	1.03 y	1.08	29:39	1.022	1.017	1.027	149.601
	PCB-22	8.60e+07	1.04 y	1.21	30:05	1.037	1.032	1.042	50.9455
	PCB-36	7.12e+07	1.03 y	1.14	30:40	0.933	0.928	0.938	51.8469
	PCB-39	7.20e+07	1.02 y	1.12	31:09	0.948	0.943	0.953	53.6838
	PCB-38	7.37e+07	1.03 y	1.20	31:55	0.971	0.966	0.976	51.1156
	PCB-35	7.10e+07	1.03 y	1.23	32:26	0.987	0.982	0.992	47.9376
	PCB-37	7.16e+07	1.02 y	1.23	32:53	1.000	0.995	1.005	48.3854
	PCB-54	6.73e+07	0.78 y	1.10	27:57	1.001	0.996	1.006	49.6981
	PCB-50	5.38e+07	0.77 y	0.88	29:05	1.042	1.037	1.047	49.7280
	PCB-53	5.23e+07	0.75 y	1.06	29:44	0.947	0.942	0.952	50.5493
	PCB-51	4.77e+07	0.77 y	0.99	30:04	0.957	0.952	0.962	49.5846
	PCB-45	4.32e+07	0.77 y	0.86	30:30	0.971	0.966	0.976	51.4204
	PCB-46	4.05e+07	0.76 y	0.85	30:59	0.986	0.981	0.991	49.2764

	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
	PCB-52/69	1.24e+08	0.76 y	1.28	31:27	1.001	0.996	1.006	99.8332
	PCB-73	6.71e+07	0.78 y	1.35	31:34	1.005	1.000	1.010	51.0170
	PCB-43/49	9.43e+07	0.76 y	0.99	31:44	1.010	1.005	1.015	97.5221
	PCB-47	5.35e+07	0.76 y	1.06	31:55	1.001	0.996	1.006	49.2976
	PCB-48/75	1.20e+08	0.77 y	1.23	32:02	1.004	0.999	1.009	95.5705
	PCB-65	6.30e+07	0.76 y	1.22	32:19	1.013	1.008	1.018	50.1860
	PCB-62	5.58e+07	0.76 y	1.22	32:26	1.016	1.011	1.021	44.5973
	PCB-44	4.12e+07	0.77 y	0.86	32:43	1.026	1.021	1.031	46.6811
	PCB-42/59	1.11e+08	0.76 y	1.14	32:57	1.033	1.028	1.038	95.2591
	PCB-41/64/71/72	2.33e+08	0.77 y	1.21	33:32	1.051	1.046	1.056	187.913
	PCB-68	6.63e+07	0.76 y	1.35	33:47	1.059	1.054	1.064	47.9757
	PCB-40	3.48e+07	0.77 y	0.70	34:00	1.066	1.061	1.071	48.4517
	PCB-57	6.06e+07	0.76 y	0.98	34:22	0.970	0.965	0.975	50.6920
	PCB-67	6.65e+07	0.76 y	1.11	34:40	0.979	0.974	0.984	49.1755
	PCB-58	5.67e+07	0.79 y	0.93	34:47	0.982	0.977	0.987	50.1141
	PCB-63	5.70e+07	0.76 y	0.95	34:56	0.987	0.982	0.992	48.9977
	PCB-74	7.34e+07	0.77 y	1.24	35:13	0.995	0.990	1.000	48.3011
	PCB-61/70	1.16e+08	0.77 y	0.95	35:24	1.000	0.995	1.005	99.8888
	PCB-76/66	1.26e+08	0.77 y	1.04	35:37	1.006	1.001	1.011	99.0361
	PCB-80	7.72e+07	0.77 y	1.19	35:50	1.001	0.996	1.006	51.1089
	PCB-55	6.84e+07	0.77 y	1.04	36:10	1.010	1.005	1.015	51.7926
	PCB-56/60	1.27e+08	0.77 y	1.01	36:40	1.024	1.019	1.029	98.8614
	PCB-79	6.79e+07	0.78 y	1.08	37:43	1.053	1.048	1.058	49.6313
	PCB-78	6.97e+07	0.77 y	1.27	38:25	0.987	0.982	0.992	49.0861
	PCB-81	7.20e+07	0.78 y	1.33	38:57	1.000	0.995	1.005	48.4278
	PCB-77	6.19e+07	0.79 y	1.10	39:33	1.000	0.995	1.005	49.2464
	PCB-104	5.11e+07	1.57 y	1.18	32:35	1.001	0.996	1.006	50.6145
	PCB-96	4.80e+07	1.56 y	1.14	33:50	1.039	1.034	1.044	49.4868
	PCB-103	3.98e+07	1.56 y	0.96	34:22	1.055	1.050	1.060	48.8016
	PCB-100	3.93e+07	1.58 y	0.94	34:42	1.066	1.061	1.071	49.1824
	PCB-94	3.18e+07	1.55 y	1.06	35:11	0.985	0.980	0.990	48.0705
	PCB-95/98/102	1.14e+08	1.55 y	1.22	35:42	1.000	0.995	1.005	149.073
	PCB-93	2.65e+07	1.58 y	0.84	35:48	1.002	0.997	1.007	50.1439
	PCB-88/91	7.03e+07	1.58 y	1.12	36:05	1.010	1.005	1.015	100.529
	PCB-121	5.08e+07	1.60 y	1.62	36:12	1.014	1.009	1.019	50.2163
	PCB-84/92	6.82e+07	1.56 y	1.05	37:01	0.990	0.985	0.995	99.2072
	PCB-89	3.73e+07	1.58 y	1.13	37:14	0.996	0.991	1.001	50.2710

RL: MONO, TRI - DECA: _____

RL: DI : _____

Integrations by Analyst: DMS

Date: 6/24/14

Reviewed by Analyst: _____

Date: _____

Client ID: PCB CS3 14F1302 Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49 ConCal: NA

Lab ID: ST140623E2-4 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-90/101	7.26e+07	1.56	y	1.10	37:24	1.000	0.995	1.005	100.338
	PCB-113	4.88e+07	1.57	y	1.41	37:39	1.007	1.002	1.012	52.6770
	PCB-99	4.19e+07	1.60	y	1.34	37:44	1.009	1.004	1.014	47.7406
	PCB-119	4.49e+07	1.56	y	1.53	38:12	0.987	0.982	0.992	49.7646
	PCB-108/112	7.56e+07	1.58	y	1.28	38:21	0.991	0.986	0.996	100.241
	PCB-83	4.40e+07	1.57	y	1.52	38:31	0.995	0.990	1.000	49.2175
	PCB-97	3.44e+07	1.55	y	1.18	38:42	1.000	0.995	1.005	49.3584
	PCB-86	2.35e+07	1.55	y	0.84	38:51	1.004	0.999	1.009	47.2868
	B-87/117/125	1.40e+08	1.62	y	1.55	38:58	1.007	1.002	1.012	153.661
	PCB-111/115	9.49e+07	1.51	y	1.63	39:08	1.011	1.006	1.016	98.7316
	PCB-85/116	7.71e+07	1.58	y	1.30	39:16	1.015	1.010	1.020	100.601
	PCB-120	4.81e+07	1.59	y	1.68	39:30	1.021	1.016	1.026	48.6800
	PCB-110	4.58e+07	1.57	y	1.56	39:39	1.025	1.020	1.030	50.0059
	PCB-82	2.78e+07	1.55	y	0.76	40:17	0.976	0.971	0.981	49.7616
	PCB-124	5.28e+07	1.58	y	1.47	40:57	0.993	0.988	0.998	48.7175
	PCB-107/109	9.93e+07	1.59	y	1.32	41:05	0.996	0.991	1.001	102.042
	PCB-123	4.35e+07	1.59	y	1.17	41:17	1.001	0.996	1.006	50.5524
-	PCB-106/118	9.15e+07	1.59	y	1.17	41:28	1.001	0.996	1.006	100.161
-	PCB-114	6.12e+07	1.65	y	1.30	42:07	1.000	0.995	1.005	50.6258
	PCB-122	5.19e+07	1.66	y	1.12	42:15	1.004	0.999	1.009	49.6469
	PCB-105	5.88e+07	1.64	y	1.30	42:59	1.000	0.995	1.005	49.4039
	PCB-127	6.36e+07	1.67	y	1.33	43:19	1.001	0.996	1.006	47.5787
	PCB-126	5.32e+07	1.63	y	1.18	45:13	1.000	0.995	1.005	49.7195
	PCB-155	3.92e+07	1.27	y	1.11	36:57	1.001	0.966	1.006	49.6608
	PCB-150	3.54e+07	1.29	y	1.00	38:13	1.035	1.030	1.040	50.0537
	PCB-152	3.90e+07	1.30	y	1.12	38:42	1.048	1.043	1.053	49.3510
	PCB-145	4.21e+07	1.28	y	1.20	39:08	1.060	1.055	1.065	49.5203
	PCB-136	4.09e+07	1.29	y	1.18	39:28	1.069	1.064	1.074	48.9891
	PCB-148	2.62e+07	1.30	y	0.74	39:33	1.071	1.066	1.076	49.6483
	PCB-154	2.94e+07	1.28	y	0.86	40:03	1.085	1.080	1.090	48.3589
	PCB-151	2.53e+07	1.29	y	0.75	40:42	1.102	1.097	1.107	47.8747
	PCB-135	2.73e+07	1.26	y	0.79	40:55	1.108	1.103	1.113	48.6888
	PCB-144	2.52e+07	1.30	y	0.76	41:02	1.111	1.105	1.117	46.6300
	PCB-147	2.80e+07	1.30	y	0.82	41:09	1.115	1.109	1.121	48.1949
	PCB-139/149	5.22e+07	1.28	y	0.76	41:25	1.122	1.116	1.128	96.7904
-	PCB-140	2.47e+07	1.27	y	0.72	41:36	1.127	1.121	1.133	48.2707
-	PCB-134/143	7.05e+07	1.25	y	0.92	42:02	0.975	0.970	0.980	97.1084

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-133/142	6.32e+07	1.24	y	0.82	42:20	0.982	0.977	0.987	97.4225
	PCB-131	3.53e+07	1.23	y	0.91	42:30	0.986	0.981	0.991	49.1208
	PCB-146/165	9.72e+07	1.25	y	1.25	42:43	0.991	0.986	0.996	98.5088
	PCB-132/161	8.58e+07	1.31	y	1.10	42:58	0.997	0.992	1.002	98.0024
	PCB-153	4.86e+07	1.16	y	1.25	43:08	1.000	0.995	1.005	49.1545
	PCB-168	5.75e+07	1.25	y	1.45	43:21	1.006	1.001	1.011	50.0689
	PCB-141	3.94e+07	1.24	y	1.09	43:52	1.000	0.995	1.005	48.7397
	PCB-137	3.90e+07	1.23	y	1.06	44:15	1.009	1.004	1.014	49.2894
	PCB-130	3.61e+07	1.23	y	0.96	44:21	1.011	1.006	1.016	50.1859
	PCB-138/163/164	1.47e+08	1.24	y	1.29	44:44	1.001	0.996	1.006	147.764
	PCB-158/160	1.03e+08	1.23	y	1.34	44:59	1.006	1.001	1.011	99.9483
	PCB-129	3.23e+07	1.24	y	0.85	45:13	1.012	1.007	1.017	49.1140
	PCB-166	4.98e+07	1.24	y	1.19	45:41	0.993	0.988	0.998	49.5492
	PCB-159	4.70e+07	1.23	y	1.11	46:01	1.001	0.996	1.006	49.8539
	PCB-128/162	8.65e+07	1.23	y	1.05	46:18	1.007	1.002	1.012	97.4214
	PCB-167	5.55e+07	1.22	y	1.20	46:41	1.000	0.995	1.005	50.1954
	PCB-156	5.05e+07	1.25	y	1.14	48:00	1.001	0.996	1.006	50.3349
	PCB-157	5.18e+07	1.24	y	1.16	48:16	1.000	0.995	1.005	48.3867
	PCB-169	4.66e+07	1.27	y	1.12	50:20	1.000	0.995	1.005	48.3941
	PCB-188	4.99e+07	1.05	y	1.58	42:46	1.001	0.996	1.006	49.3061
	PCB-184	5.13e+07	1.06	y	1.63	43:13	1.011	1.006	1.016	49.1029
	PCB-179	4.15e+07	1.06	y	1.30	44:00	1.029	1.024	1.034	49.7059
	PCB-176	4.68e+07	1.04	y	1.48	44:28	1.040	1.035	1.045	49.4886
	PCB-186	4.64e+07	1.05	y	1.45	45:05	1.055	1.050	1.060	49.8177
	PCB-178	3.27e+07	1.05	y	1.03	45:34	1.066	1.061	1.071	49.3595
	PCB-175	3.22e+07	1.05	y	1.01	45:55	1.074	1.069	1.079	49.6213
	PCB-182/187	7.77e+07	1.05	y	1.25	46:05	1.078	1.073	1.083	96.9439
	PCB-183	3.68e+07	1.05	y	1.21	46:24	1.086	1.081	1.091	47.6012
	PCB-185	4.12e+07	1.07	y	1.80	47:04	0.956	0.951	0.961	49.3457
	PCB-174	3.30e+07	1.02	y	1.38	47:26	0.963	0.958	0.968	51.6599
	PCB-181	3.14e+07	1.06	y	1.38	47:33	0.965	0.960	0.970	49.1713
	PCB-177	2.91e+07	1.05	y	1.26	47:42	0.968	0.963	0.973	50.0451
	PCB-171	3.69e+07	1.07	y	1.58	48:00	0.975	0.970	0.980	50.3499
	PCB-173	2.61e+07	1.04	y	1.11	48:26	0.983	0.978	0.988	50.8218
	PCB-172	3.80e+07	1.07	y	1.63	48:53	0.992	0.987	0.997	50.2115
	PCB-192	4.11e+07	1.06	y	1.74	49:04	0.996	0.991	1.001	51.0155
	PCB-180	3.12e+07	1.05	y	1.34	49:17	1.000	0.995	1.005	50.1142

RL: MONO, TRI - DECA: _____

Integrations by Analyst: DMS

Date: 6/24/14

Client ID: PCB CS3 14F1302 Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49 ConCal: NA
Lab ID: ST140623E2-4 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-193	3.98e+07	1.07	y	1.72	49:27	1.004	0.999	1.009	50.0826
	PCB-191	3.90e+07	1.07	y	1.69	49:42	1.009	1.004	1.014	49.6416
	PCB-170	2.97e+07	1.05	y	1.60	50:41	1.000	0.995	1.005	50.7863
	PCB-190	4.08e+07	1.06	y	2.21	50:51	1.003	0.998	1.008	50.4671
	PCB-189	3.71e+07	1.05	y	1.55	52:08	1.000	0.995	1.005	50.0142
	PCB-202	3.01e+07	0.94	y	1.08	48:12	1.000	0.995	1.005	49.1569
	PCB-201	3.19e+07	0.91	y	1.15	48:41	1.010	1.005	1.015	49.1361
	PCB-204	3.22e+07	0.91	y	1.14	48:50	1.014	1.008	1.018	50.0554
	PCB-197	3.03e+07	0.91	y	1.07	49:09	1.020	1.015	1.025	49.8625
	PCB-200	3.01e+07	0.90	y	1.06	49:59	1.037	1.032	1.044	50.0631
	PCB-198	2.18e+07	0.92	y	0.76	51:15	1.064	1.059	1.069	51.1487
	PCB-199	2.16e+07	0.91	y	0.80	51:21	1.066	1.061	1.071	47.8578
-	PCB-196/203	4.53e+07	0.92	y	0.80	51:37	1.071	1.066	1.076	100.108
-	PCB-195	3.20e+07	0.89	y	1.23	52:45	0.984	0.979	0.989	50.6536
	PCB-194	3.08e+07	0.92	y	1.21	53:37	1.000	0.995	1.005	49.2456
	PCB-205	3.93e+07	0.92	y	1.54	53:55	1.006	1.001	1.011	49.3837
	PCB-208	3.24e+07	1.34	y	0.93	52:53	1.000	0.995	1.005	49.6730
	PCB-207	3.78e+07	1.32	y	1.08	53:12	1.006	1.001	1.011	49.8284
	PCB-206	2.13e+07	1.36	y	1.02	55:20	1.000	0.995	1.005	49.3149
	PCB-209	2.30e+07	1.21	y	1.17	56:38	1.000	0.995	1.005	51.1001

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	3.01e+08	3.00	y	16:25	1.27	154.481	
Total Di-PCB	2.26e+09	1.65	y	20:14	1.21	1208.89	
Total Tri-PCB	5.48e+08	1.05	y	24:15	1.10	402.442	
Total Tri-PCB	1.30e+09	1.03	y	27:52	1.21	807.063	Sum:1209.50
Total Tetra-PCB	2.49e+09	0.78	y	27:57	1.09	2080.43	
Total Penta-PCB	1.69e+09	1.57	y	32:35	1.18	2047.61	
Total Penta-PCB	3.13e+08	1.65	y	42:07	1.25	268.155	Sum:2315.77
Total Hexa-PCB	4.35e+08	1.27	y	36:57	0.90	682.032	
Total Hexa-PCB	1.26e+09	1.25	y	42:02	1.11	1398.33	Sum:2080.36
Total Hepta-PCB	9.18e+08	1.05	y	42:46	1.42	1205.33	
Total Octa-PCB	2.43e+08	0.94	y	48:12	0.96	447.388	
Total Octa-PCB	1.04e+08	0.89	y	52:45	1.33	151.653	Sum:599.041
Total Nona-PCB	9.23e+07	1.34	y	52:53	1.01	150.101	
Total Deca-PCB	2.30e+07	1.21	y	56:38	1.17	51.1001	

Total PCB Conc:10960.1670500

RL: MONO, TRI - DECA: _____

Integrations by Analyst: DMS

Date: 6/24/14

Client ID: PCB CS3 14F1302 Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49 ConCal: NA
Lab ID: ST140623E2-4 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.53e+08	3.37 y	0.87	16:24	0.632	0.629	0.635	98.7	98.7
13C-PCB-3	1.54e+08	3.41 y	0.91	18:54	0.729	0.725	0.733	94.8	94.8
13C-PCB-4	1.04e+08	1.58 y	0.59	20:11	0.779	0.775	0.783	99.7	99.7
13C-PCB-9	1.59e+08	1.59 y	0.90	21:55	0.846	0.842	0.850	99.2	99.2
13C-PCB-11	1.64e+08	1.57 y	0.94	25:13	0.973	0.968	0.978	98.2	98.2
13C-PCB-19	9.46e+07	1.07 y	0.53	24:14	0.935	0.930	0.940	99.8	99.8
13C-PCB-28	1.40e+08	1.06 y	0.93	29:01	1.004	0.999	1.009	98.7	98.7
13C-PCB-32	1.39e+08	1.09 y	0.80	27:06	1.045	1.040	1.050	98.2	98.2
13C-PCB-37	1.20e+08	1.07 y	0.84	32:52	1.137	1.131	1.143	94.4	94.4
13C-PCB-47	1.02e+08	0.79 y	0.81	31:54	0.870	0.866	0.874	101	101
13C-PCB-52	9.72e+07	0.80 y	0.77	31:24	0.857	0.853	0.861	101	101
13C-PCB-54	1.23e+08	0.81 y	0.97	27:55	0.762	0.758	0.766	101	101
13C-PCB-70	1.22e+08	0.78 y	1.00	35:25	0.966	0.961	0.971	97.6	97.6
13C-PCB-77	1.14e+08	0.78 y	0.94	39:32	1.078	1.073	1.083	96.6	96.6
13C-PCB-80	1.27e+08	0.80 y	1.03	35:49	0.977	0.972	0.982	98.0	98.0
13C-PCB-81	1.12e+08	0.79 y	0.92	38:56	1.062	1.057	1.067	96.6	96.6
13C-PCB-95	6.27e+07	1.59 y	0.74	35:43	0.913	0.908	0.918	99.4	99.4
13C-PCB-97	5.89e+07	1.59 y	0.70	38:42	0.989	0.984	0.994	98.2	98.2
13C-PCB-101	6.57e+07	1.54 y	0.78	37:23	0.956	0.951	0.961	98.6	98.6
13C-PCB-104	8.52e+07	1.57 y	1.00	32:34	0.832	0.828	0.836	100.0	100.0
13C-PCB-105	9.17e+07	1.60 y	1.37	42:58	0.929	0.924	0.934	96.9	96.9
13C-PCB-114	9.33e+07	1.60 y	1.36	42:06	0.910	0.905	0.915	98.7	98.7
13C-PCB-118	7.79e+07	1.58 y	0.96	41:26	1.059	1.054	1.064	95.4	95.4
13C-PCB-123	7.37e+07	1.61 y	0.89	41:15	1.055	1.050	1.060	96.8	96.8
13C-PCB-126	9.05e+07	1.58 y	1.31	45:12	0.977	0.972	0.982	99.9	99.9
13C-PCB-127	1.00e+08	1.57 y	1.47	43:17	0.936	0.931	0.941	98.2	98.2
13C-PCB-138	7.71e+07	1.29 y	1.10	44:42	0.966	0.961	0.971	101	101
13C-PCB-141	7.45e+07	1.28 y	1.07	43:51	0.948	0.943	0.953	100.0	100.0
13C-PCB-153	7.92e+07	1.29 y	1.15	43:07	0.932	0.927	0.937	99.7	99.7
13C-PCB-155	7.08e+07	1.29 y	0.84	36:55	0.944	0.939	0.949	99.1	99.1
13C-PCB-156	8.85e+07	1.29 y	1.30	47:58	1.037	1.032	1.042	98.4	98.4
13C-PCB-157	9.20e+07	1.29 y	1.36	48:15	1.043	1.038	1.048	97.7	97.7
13C-PCB-159	8.48e+07	1.27 y	1.25	45:59	0.994	0.989	0.999	98.0	98.0
13C-PCB-167	9.22e+07	1.30 y	1.35	46:40	1.009	1.004	1.014	98.4	98.4
13C-PCB-169	8.62e+07	1.27 y	1.29	50:19	1.088	1.083	1.093	96.7	96.7
13C-PCB-170	3.66e+07	0.47 y	0.54	50:40	1.095	1.089	1.101	97.2	97.2
13C-PCB-180	4.63e+07	0.47 y	0.68	49:15	1.065	1.060	1.070	97.7	97.7
13C-PCB-188	6.40e+07	0.46 y	0.92	42:45	0.924	0.919	0.929	101	101
13C-PCB-189	4.78e+07	0.47 y	0.72	52:07	1.126	1.120	1.132	96.3	96.3
13C-PCB-194	5.16e+07	0.92 y	0.80	53:36	0.995	0.990	1.000	99.4	99.4
13C-PCB-202	5.65e+07	0.94 y	0.84	48:11	1.041	1.036	1.046	97.2	97.2
13C-PCB-206	4.23e+07	0.78 y	0.65	55:19	1.026	1.021	1.031	100.0	100.0
13C-PCB-208	7.00e+07	0.78 y	1.08	52:53	0.981	0.976	0.986	99.5	99.5
13C-PCB-209	3.85e+07	1.23 y	0.61	56:37	1.050	1.045	1.055	96.9	96.9

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.25e+08	0.79 y	1.02	37:42	1.028	1.023	1.034	98.3	98.3
13C-PCB-178	4.30e+07	0.46 y	0.61	45:33	0.984	0.979	0.990	101	101

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.25e+08	0.79 y	1.10	37:42	0.968	0.963	0.973	102	102
13C-PCB-178	4.30e+07	0.46 y	0.90	45:33	0.925	0.920	0.930	103	103

RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	1.78e+08	1.59	y	1.00	25:55	100
13C-PCB-31	1.52e+08	1.05	y	1.00	28:55	100
13C-PCB-60	1.25e+08	0.79	y	1.00	36:39	100
13C-PCB-111	8.51e+07	1.57	y	1.00	39:07	100
13C-PCB-128	6.93e+07	1.27	y	1.00	46:16	100
13C-PCB-205	6.51e+07	0.91	y	1.00	53:54	100

Analyst: DMS

Date: 6/24/14

Vista Analytical Laboratory - Injection Log Run file: 140623E2 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
140623E2	1	ST140623E2-1	DMS	23-JUN-14	11:41:57	NA	NA
140623E2	2	ST140623E2-2	DMS	23-JUN-14	12:45:53	NA	NA
140623E2	3	ST140623E2-3	DMS	23-JUN-14	13:49:52	NA	NA
140623E2	4	ST140623E2-4	DMS	23-JUN-14	14:53:49	NA	NA
140623E2	5	ST140623E2-5	DMS	23-JUN-14	15:57:45	NA	NA
140623E2	6	ST140623E2-6	DMS	23-JUN-14	17:01:39	NA	NA
140623E2	7	SOLVENT BLANK	DMS	23-JUN-14	18:05:37	NA	NA
140623E2	8	ST140623E2-7	DMS	23-JUN-14	19:09:28	NA	NA
140623E2	9	B4F0051-BS1	DMS	23-JUN-14	20:13:23	ST140623E2-4	NA
140623E2	10	SOLVENT BLANK	DMS	23-JUN-14	21:17:15	NA	NA
140623E2	11	B4F0051-BLK1	DMS	23-JUN-14	22:21:11	ST140623E2-4	NA
140623E2	12	1400418-01 1:10	DMS	23-JUN-14	23:25:05	ST140623E2-4	NA
140623E2	13	1400418-02 1:10	DMS	24-JUN-14	00:29:00	ST140623E2-4	NA
140623E2	14	1400418-03 1:10	DMS	24-JUN-14	01:32:54	ST140623E2-4	NA
140623E2	15	SOLVENT BLANK	DMS	24-JUN-14	02:36:47	NA	NA