

Lower Duwamish Waterway

NPDES Inspection Sampling Support 2014/2015

Prepared for



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June 2015

Appendix M

Puget Sound Coatings

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.

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M-1 Introduction and Background

| | |
|---------------------------------------|---|
| Facility Name | Puget Sound Coatings |
| Facility/Site ID | 97263627 |
| Address | 9220 8 th Avenue S Seattle, WA 98108 |
| NPDES Permit Type | Industrial Stormwater General Permit |
| NPDES Permit No. | WAR002142 |
| Permit Monitoring Requirements | Turbidity, TSS, pH, oil sheen, total petroleum hydrocarbons (TPH), total zinc, total copper |
| SIC Code | 3479: Metal Coating and Allied Services |
| Inspection Date | September 9, 2014 |
| Grab Samples | 2 water samples, 1 solids sample |
| Sample ID(s) | PS-TS-01-20140909-W PS-OS-01-20140909-W PS-TS-01-20140909-S |
| Water Sample Analytes | Total metals, mercury, hexavalent chromium, PCB congeners, SVOCs, dioxins/furans, alkalinity, bicarbonate/carbonate, sulfate, hydroxide, chloride, nitrate, specific conductance, pH, TOC, DOC, TSS |
| Solids Sample Analytes | Metals, mercury, PCB Aroclors, PCB congeners, dioxins/furans, SVOCs, VOCs, TPH-diesel/motor oil, TPH-gasoline, grain size, TOC |
| Split Samples with Facility | No |

Puget Sound Coatings is located in an industrial area on the west side of the Lower Duwamish Waterway (LDW). According to the facility's Stormwater Pollution Prevention Plan (SWPPP), Puget Sound Coatings provides blasting, coating, wheelabrating, metallization and flame spraying, tape wrapping, and pressure washing services. Product is delivered to the yard via truck, cleaned by pressure and /or shot blasting using either plastic, garnet, glass, aluminum oxide, or steel media. Following cleaning, the product is coated with metal or solvent-based materials or tape wrapped, depending on the customer's request.

The site consists of several buildings and a large paved yard. Work in progress is generally stored outside, on the paved storage yard, both before and after coating applications. The coating and cleaning process has the potential to result in dust, grit, and exposed zinc or other metal products being conveyed to the stormwater conveyance system. The company has installed an Aquip brand modified sand filter to treat runoff before discharge to the public storm drain system. The loading and unloading of grits, solvents, and paints for either use or disposal by vendors represents a significant risk for spills and stormwater pollution. Secondary risks include turbidity increases due to blasting media entering the stormwater system and oil/grease increases due to leaks from forklifts or trucks (Nisqually 2012). A facility map is presented in Figure M-1.

M-1.1 Stormwater Conveyance and Treatment System

The site had two distinct discharge locations that were recently combined into one location. Stormwater is collected in catch basins and conveyed to the treatment system located at the northeast corner of the site. After treatment, the stormwater flows to the public storm drain system and eventually discharges to the LDW via the S 96th Street storm drain outfall.

Due to zinc benchmark exceedances, Puget Sound Coatings installed an ion exchange system at the back end of its stormwater treatment system. The system includes three 45-cubic foot tanks positioned in series that contain a chelating resin, which is selective for copper and zinc. The first two tanks can be placed in a lead-lag configuration; the third tank is always in the last position and acts as a safety backup (Nisqually 2012).

M-1.2 Recent Compliance History

Ecology previously completed a stormwater compliance inspection at Puget Sound Coatings on February 13, 2008. As a result of this inspection, the facility eliminated the discharge of wash water to storm drains by installing a connection to the sanitary sewer. The facility had not completed an adequate SWPPP as required by the permit. Ecology requested the facility to begin stormwater sampling and reporting as required by Permit Conditions S4 and S5, update and enhance the SWPPP as required by Permit Condition S9, and to submit a copy of the updated SWPPP to Ecology. A SWPPP was submitted to Ecology in April 2012.

Based on available Discharge Monitoring Report (DMR) data, Puget Sound Coatings exceeded the permit benchmarks for zinc during the 1st and 2nd quarter of 2011 (Ecology 2015). No recent DMR data are provided in Ecology's Water Quality Permits database.

M-2 Inspection and Sampling

M-2.1 September 2014 Stormwater Compliance Inspection

On September 9, 2014, Ecology conducted a stormwater compliance inspection at Puget Sound Coatings. 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, written and photographic documentation, and assessing whether the drainage structures contained sufficient sampleable material. The coordinates of sample locations are plotted on Figure M-2 using geographic information system software. An inspection photographic log and field documentation are presented in Attachments M-1 and M-2, respectively.

The field team inspected the following stormwater conveyance structures at Puget Sound Coatings, as shown on Figure M-2:

- Bypass manhole (PS-OS-01)
- Treatment system influent sump (PS-TS-01)
- Manhole 01 (PS-MH-01)

Location PS-TS-01 contained sufficient sampleable solid material. Locations PS-OS-01 and PS-TS-01 contained sufficient water to collect a grab water sample. Location PS-TS-01 is labeled as CB2 on Puget Sound Coatings' SWPPP map (Figure M-1).

M-2.2 Stormwater Conveyance System Sampling

Ecology collected two water samples and one solids sample from the stormwater conveyance system at Puget Sound Coatings. Leidos provided split samples of all samples collected to Puget Sound Coatings. Sample locations, analytes, and analytical methods are listed on Table M-1. Water sample results are presented in Tables M-2 through M-6. Solids sample results are presented in Tables M-7 through M-9. Chain of custody forms and laboratory reports are provided as Attachments M-3 and M-4, respectively. Split sample results provided by Puget Sound Coatings are presented in Attachment M-5.

M-2.2.1 Water Sample

Water sample PS-TS-01-20140909-W was collected from the treatment system influent sump, which receives stormwater from all drainage areas at the Puget Sound Coatings facility (Figure M-2). Stormwater is pumped from the sump to an ion exchange stormwater treatment system. After treatment, stormwater is conveyed to the S 96th Street public storm drain system.

Water sample PS-OS-01-20140909-W was collected from a manhole located on the 48-inch bypass drainage line that conveys upgradient groundwater through the Puget Sound Coatings facility (Figure M-2). This manhole is located in the northeast corner of the facility, adjacent to location PS-TS-01. The effluent from the Puget Sound Coatings treatment system reconnects with the effluent drainage line downstream of location PS-OS-01. Water from the treatment system and bypass line is combined and conveyed to the public storm drain line on 10th Avenue S.

M-2.2.2 Solids Sample

Solids sample PS-TS-01-20140909-S was collected from the treatment system influent sump, which receives stormwater from all drainage areas at the PSC facility (Figure M-2). Stormwater is collected in catch basins and conveyed to the sump at PS-TS-01. Stormwater is pumped from the sump to the ion exchange stormwater treatment system (Attachment M-1).

M-3 Results

M-3.1 Chemical Analysis

Ecology collected two water samples and one solids sample during the September 9, 2014 stormwater compliance inspection at Puget Sound Coatings. Analytical methods, chemical results and regulatory criteria are presented in Tables M-1 through M-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).

Cadmium, copper, zinc, and total PCB congeners were detected in one or more water samples at concentrations above the screening levels (Table M-4). Zinc, bis(2-ethylhexyl)phthalate, butylbenzylphthalate, phenol, benzyl alcohol, gasoline-range hydrocarbons, and motor oil-range hydrocarbons were detected in one or more solids samples at concentrations above the screening levels (Table M-8).

M-3.2 Inspection Results and Permit Compliance Requirements

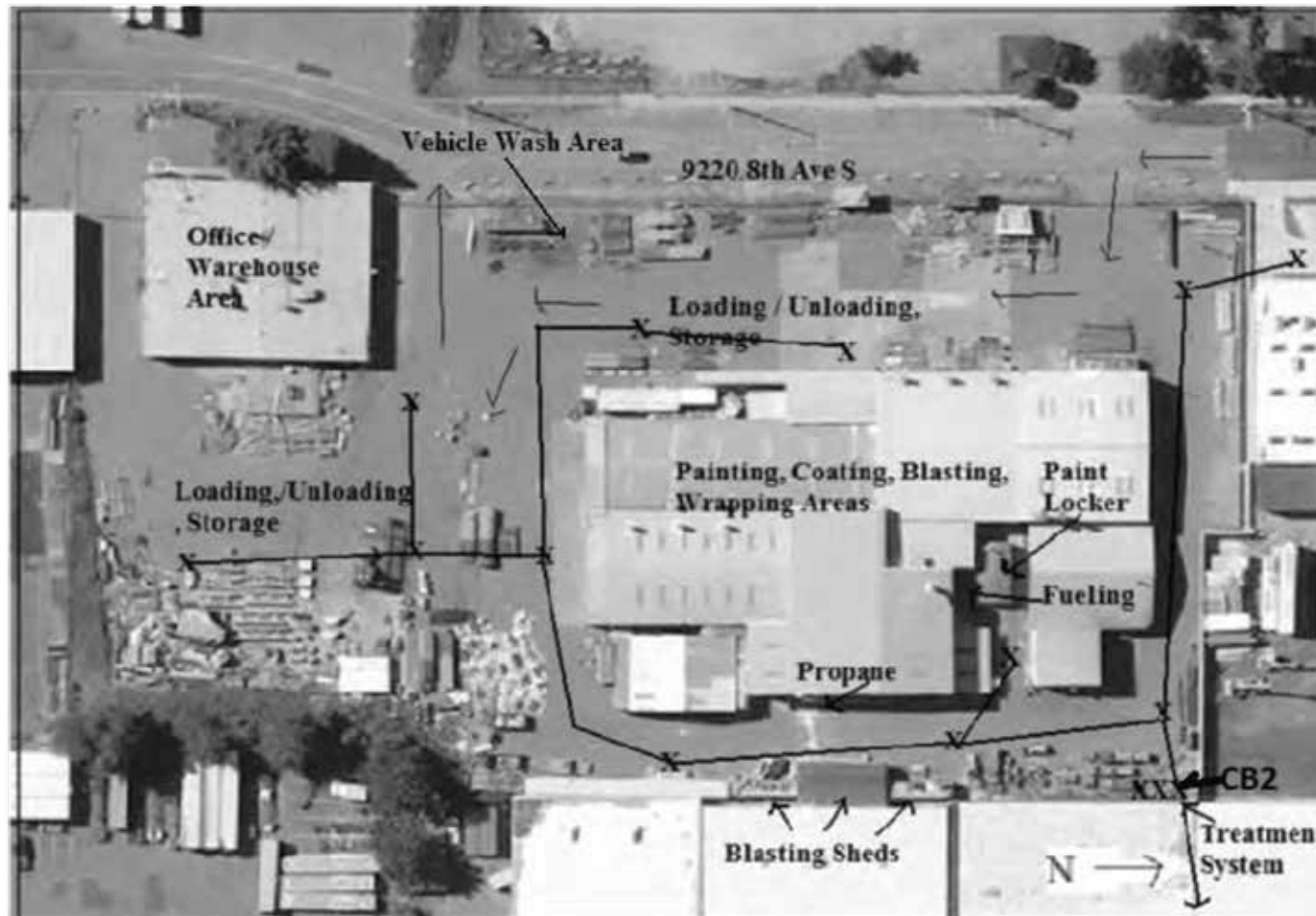
The Ecology inspection report was not available for review.

M-4 References

- Ecology (Washington State Department of Ecology). 2015. Water Quality Permitting and Reporting Information System, Summary Information, Puget Sound Coatings. Online database; accessed April 9, 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.
- Nisqually Environmental (Nisqually). 2012. Stormwater Pollution Prevention Plan for: Puget Sound Coatings, 9220 8th Ave S, Seattle, WA, 98108. May 2012.

Figures

Appendix B Site Map

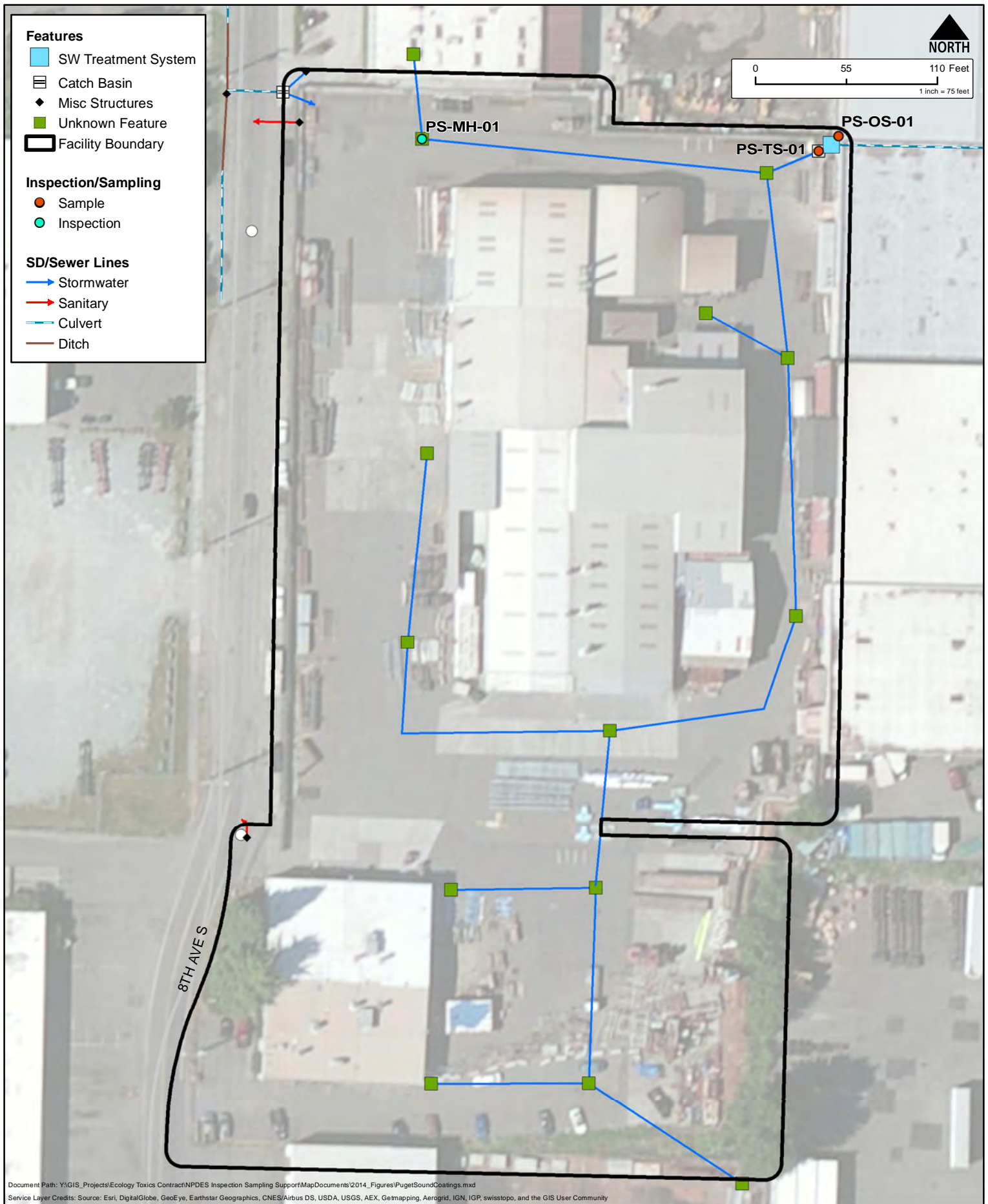


Discharge is to the Seattle storm water system, eventually to the Duwamish River

Trucks enter and leave as indicated by the small font arrows

Storm water from the site is collected and passes through the treatment system before discharge per the WWSWM calculations.

Source: Nisqually Environmental 2012



**Figure M-2. Puget Sound Coatings
Inspection and Sample Locations**

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 M-1. Sampling Locations and Analytical Methods
Puget Sound Coatings**

| Analyte | Method | Sample Location / Collection Date | |
|---------------------------------------|-----------------|-----------------------------------|----------------------|
| | | PS-OS-01 9/9/2014 | PS-TS-01 9/9/2014 |
| Water Samples | | | |
| Metals (total) | EPA 200.8 | ● | ● |
| Mercury (total, dissolved) | SW 7470A | ● | ● |
| Chromium, hexavalent | EPA 3500-Cr D | ● | ● |
| PCB Congeners | EPA 1668C | ● | ● |
| SVOCs | SW 8270D-Low | ● | ● |
| Dioxins/furans | EPA 1613B | ● | ● |
| Alkalinity/Bicarbonate/Carbonate | SM 2320B | ● | ● |
| Nitrogen, Nitrate-Nitrite | EPA 353.2 | ● | ● |
| Anions (Chloride, Sulfate, Hydroxide) | 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 | SW7471A | | ● |
| PCB Aroclors | EPA 8082 | | ● |
| PCB Congeners | EPA 1668C | | ● |
| Dioxins/furans | EPA 1613B | | ● |
| SVOCs | SW 8270D-Low | | ● |
| VOCs (a) | SW 8260B-Low | | ● |
| TPH-diesel/motor oil | NWTPH-Dx | | ● |
| TPH-gasoline | NWTPH-Gx | | ● |
| Grain size | PSEP Plumb 1981 | | ● |
| Total organic carbon | PSEP 9060 | | ● |

(a) Sample PS-TS-01 was analyzed for VOCs by both methods SW8260B and SW8260C. The results from the EPA 8260C analysis is reported for the following analytes: 1,2,3-trichlorobenzene, 1,2,3-trichloropropane, 1,2,4-trichlorobenzene, 1,2,4-trimethylbenzene, 1,2-dibromo-3-chloropropane, 1,2-dichlorobenzene, 1,3,5-trimethylbenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 2-chlorotoluene, 4-chlorotoluene, bromobenzene, bromoform, hexachlorobutadiene, m,p-xylene, naphthalene, n-butylbenzene, n-propylbenzene, 4-isopropyltoluene, sec-butylbenzene, tert-butylbenzene, and trans-1,4-dichloro-2-butene.

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

**Table M-2. Water Quality Data - Field Measurements
Puget Sound Coatings**

| Location ID | | | PS-TS-01 | PS-OS-01 |
|-------------------------|------------------|-----------|----------|------------|
| Collection Date | | | 9/9/2014 | 9/9/2014 |
| Analyte | ISGP Benchmark | Units | Result | Result |
| Field Parameters | | | | |
| Flow | -- | Yes/No | No | No |
| pH | 5.0 to 9.0 | std units | 6.7 | 7.5 |
| Conductivity | -- | mS/cm | 0.24 a | 0.22 a |
| Temperature | -- | degrees C | 19.6 | 19.4 |
| Total Dissolved Solids | -- | mg/L | na | na |
| Turbidity | 25 | NTU | 7.2 | 342 |
| Oil & Grease | No visible sheen | Yes/No | No | No |
| Dissolved Oxygen | -- | mg/L | 8.9 | 7.4 |
| ORP | -- | mV | na | na |

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

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

**Table M-3. Water Sample Results
Puget Sound Coatings**

| Analyte | Location ID | | | | | PS-OS-01 | PS-TS-01 |
|---|-------------------|--------|-----|----------|----------|-------------------|-------------------|
| | Collection Date | | | | | 9/9/2014 | 9/9/2014 |
| | ISGP Benchmark | WA WQC | | NTR WQC | NR WQC | Result | Result |
| | | Marine | | HHO | HHO | | |
| Chronic | Acute | | | | | | |
| Total Metals (µg/L) | | | | | | | |
| Antimony | -- | -- | -- | -- | -- | 59 | 0.95 |
| Arsenic | 150 | 36 | 69 | -- | -- | 4.4 | < 1.0 U |
| Beryllium | -- | -- | -- | -- | -- | < 0.40 U | < 0.40 U |
| Cadmium | 2.1 | 9.4 | 42 | -- | -- | 2.2 | 0.26 J |
| Chromium | -- | -- | -- | -- | -- | 2.0 | 2.0 |
| Chromium, hexavalent | -- | -- | -- | -- | -- | < 12.0 U | < 12.0 U |
| Copper | 14 | 3.7 | 5.8 | -- | -- | 7.2 | 15 |
| Lead | 81.6 | 8.5 | 221 | -- | -- | 1.1 | 1.0 |
| Mercury | 1.4 | 0.025 | 2.1 | -- | -- | 0.067 J | 0.065 J |
| Nickel | -- | 8.3 | 75 | -- | -- | 1.7 J | 3.0 |
| Selenium | 5 | 71 | 291 | -- | -- | < 1.0 U | 0.80 J |
| Silver | 3.8 | -- | 2.2 | -- | -- | < 0.40 U | < 0.40 U |
| Thallium | -- | -- | -- | -- | -- | < 1.0 U | < 1.0 U |
| Zinc | 117 | 86 | 95 | -- | -- | 160 | 3,500 |
| PCB Congeners (ug/L) ^a | | | | | | | |
| Total PCB Congeners | -- | 0.03 | 10 | 1.70E-04 | 6.40E-05 | 0.012 J | 8.59E-04 J |
| PCB TEQ, nd SDL*0 | -- | 0.03 | 10 | -- | -- | 8.27E-07 J | 1.44E-09 J |
| PCB TEQ, nd SDL*0.5 | -- | 0.03 | 10 | -- | -- | 8.46E-07 J | 1.21E-07 J |
| PCB TEQ, nd SDL*1 | -- | 0.03 | 10 | -- | -- | 8.64E-07 J | 2.41E-07 J |
| Dioxins and Furans (pg/L) ^a | | | | | | | |
| 2,3,7,8-TCDD | -- | -- | -- | 0.014 | 0.0051 | < 0.943 U | < 0.943 U |
| 1,2,3,7,8-PeCDD | -- | -- | -- | -- | -- | < 1.83 U | < 1.27 U |
| 1,2,3,4,7,8-HxCDD | -- | -- | -- | -- | -- | 3.63 J | < 1.68 U |
| 1,2,3,6,7,8-HxCDD | -- | -- | -- | -- | -- | 6.04 J | < 1.74 U |
| 1,2,3,7,8,9-HxCDD | -- | -- | -- | -- | -- | 10.1 J | < 1.67 U |
| 1,2,3,4,6,7,8-HpCDD | -- | -- | -- | -- | -- | 261 | 2.15 J |
| OCDD | -- | -- | -- | -- | -- | 3450 | 10.9 J |
| 2,3,7,8-TCDF | -- | -- | -- | -- | -- | < 0.977 U | < 0.984 U |
| 1,2,3,7,8-PeCDF | -- | -- | -- | -- | -- | < 1.39 U | < 0.894 U |
| 2,3,4,7,8-PeCDF | -- | -- | -- | -- | -- | < 1.42 U | < 0.842 U |
| 1,2,3,4,7,8-HxCDF | -- | -- | -- | -- | -- | < 1.36 U | < 1.36 U |
| 1,2,3,6,7,8-HxCDF | -- | -- | -- | -- | -- | 2.26 J | < 1.44 U |
| 1,2,3,7,8,9-HxCDF | -- | -- | -- | -- | -- | < 1.19 U | < 0.988 U |
| 2,3,4,6,7,8-HxCDF | -- | -- | -- | -- | -- | < 2.05 U | < 0.768 U |
| 1,2,3,4,6,7,8-HpCDF | -- | -- | -- | -- | -- | 38.4 | < 1.07 U |
| 1,2,3,4,7,8,9-HpCDF | -- | -- | -- | -- | -- | < 1.41 U | < 0.401 U |
| OCDF | -- | -- | -- | -- | -- | 115 | < 2.14 U |
| Total TCDD | -- | -- | -- | -- | -- | < 1.85 U | < 1.13 U |
| Total PeCDD | -- | -- | -- | -- | -- | 1.83 J | < 2.76 U |
| Total HxCDD | -- | -- | -- | -- | -- | 60.2 | < 2.84 U |
| Total HpCDD | -- | -- | -- | -- | -- | 600 | 2.15 J |
| Total TCDF | -- | -- | -- | -- | -- | 1.17 | < 1.20 U |
| Total PeCDF | -- | -- | -- | -- | -- | 9.60 | < 1.61 U |
| Total HxCDF | -- | -- | -- | -- | -- | 33.1 J | < 1.65 U |
| Total HpCDF | -- | -- | -- | -- | -- | 83.1 | < 1.12 U |
| Dioxin/Furan TEQ, nd SDL*0 | -- | -- | -- | -- | -- | 6.27 J | 0.0248 J |
| Dioxin/Furan TEQ, nd SDL*0.5 | -- | -- | -- | -- | -- | 8.17 J | 1.81 J |
| Dioxin/Furan TEQ, nd SDL*1 | -- | -- | -- | -- | -- | 10.1 J | 3.60 J |
| PAHs (µg/L) | | | | | | | |
| 1-Methylnaphthalene | -- | -- | -- | -- | -- | < 0.29 U | < 0.058 U |
| 2-Chloronaphthalene | -- | -- | -- | -- | 1,600 | < 0.29 U | < 0.058 U |
| 2-Methylnaphthalene | -- | -- | -- | -- | -- | < 0.97 U | < 0.19 U |
| Acenaphthene | -- | -- | -- | -- | 990 | < 0.49 U | < 0.097 U |
| Acenaphthylene | -- | -- | -- | -- | -- | < 0.39 U | < 0.078 U |
| Anthracene | -- | -- | -- | 110,000 | 40,000 | < 0.19 U | < 0.039 U |

**Table M-3. Water Sample Results
Puget Sound Coatings**

| Analyte | Location ID | | | | | PS-OS-01 | PS-TS-01 |
|----------------------------|-------------------|--------|----|-----------|-----------|--------------|------------------|
| | Collection Date | | | | | 9/9/2014 | 9/9/2014 |
| | ISGP Benchmark | WA WQC | | NTR WQC | NR WQC | Result | Result |
| | | Marine | | HHO | HHO | | |
| | Chronic | Acute | | | | | |
| Benzo(a)anthracene | -- | -- | -- | 0.031 | 0.018 | < 0.29 U | < 0.058 U |
| Benzo(a)pyrene | -- | -- | -- | 0.031 | 0.018 | < 0.19 U | < 0.039 U |
| Benzo(b)fluoranthene | -- | -- | -- | 0.031 | 0.018 | < 0.39 U | < 0.078 U |
| Benzo(g,h,i)perylene | -- | -- | -- | -- | -- | < 0.29 U | < 0.058 U |
| Benzo(k)fluoranthene | -- | -- | -- | 0.031 | 0.018 | < 0.29 U | < 0.058 U |
| Chrysene | -- | -- | -- | 0.031 | 0.018 | < 0.19 U | < 0.039 U |
| Dibenz(a,h)anthracene | -- | -- | -- | 0.031 | 0.018 | < 0.29 U | < 0.058 U |
| Dibenzofuran | -- | -- | -- | -- | -- | < 1.9 U | < 0.39 U |
| Fluoranthene | -- | -- | -- | 370 | 140 | < 0.24 U | < 0.048 U |
| Fluorene | -- | -- | -- | 14,000 | 5,300 | < 0.29 U | < 0.058 U |
| Indeno(1,2,3-cd)pyrene | -- | -- | -- | 0.031 | 0.018 | < 0.29 U | 0.020 J |
| Naphthalene | -- | -- | -- | -- | -- | < 1.9 U | < 0.39 U |
| Phenanthrene | -- | -- | -- | -- | -- | < 0.39 U | < 0.078 U |
| Pyrene | -- | -- | -- | 11,000 | 4,000 | < 0.29 U | < 0.058 U |
| Total Benzofluoranthenes | -- | -- | -- | -- | -- | < 0.39 U | < 0.078 U |
| Total HPAHs | -- | -- | -- | -- | -- | < 0.39 U | 0.020 J |
| Total LPAHs | -- | -- | -- | -- | -- | < 1.9 U | < 0.39 U |
| Total PAHs | -- | -- | -- | -- | -- | < 1.9 U | 0.020 J |
| cPAHs, nd RL*0 | -- | -- | -- | -- | -- | < 0 U | 0.00200 J |
| cPAHs, nd RL*0.5 | -- | -- | -- | -- | -- | < 0.17 U | 0.0343 J |
| cPAHs, nd RL*1 | -- | -- | -- | -- | -- | < 0.35 U | 0.0666 J |
| Phthalates (µg/L) | | | | | | | |
| bis(2-Ethylhexyl)phthalate | -- | -- | -- | 5.9 | 2.2 | < 15 U | < 2.9 U |
| Butylbenzylphthalate | -- | -- | -- | -- | 1,900 | < 2.9 U | < 0.58 U |
| Di-n-Butylphthalate | -- | -- | -- | 12,000 | 4,500 | < 1.9 U | < 0.39 U |
| Diethylphthalate | -- | -- | -- | 120,000 | 44,000 | < 1.9 U | < 0.39 U |
| Dimethylphthalate | -- | -- | -- | 2,900,000 | 1,100,000 | < 1.9 U | < 0.39 U |
| Di-n-Octyl phthalate | -- | -- | -- | -- | -- | < 1.9 U | < 0.39 U |
| Phenols (µg/L) | | | | | | | |
| 2,3,4,6-Tetrachlorophenol | -- | -- | -- | -- | -- | na | na |
| 2,4,5-Trichlorophenol | -- | -- | -- | -- | 3,600 | < 1.9 U | < 0.39 U |
| 2,4,6-Trichlorophenol | -- | -- | -- | 6.5 | 2.4 | < 2.9 U | < 0.58 U |
| 2,4-Dichlorophenol | -- | -- | -- | 790 | 290 | < 1.9 U | < 0.39 U |
| 2,4-Dimethylphenol | -- | -- | -- | -- | 850 | < 9.7 U | < 1.9 U |
| 2,4-Dinitrophenol | -- | -- | -- | 14,000 | 5,300 | < 24 U | < 4.8 U |
| 2-Chlorophenol | -- | -- | -- | -- | 150 | < 1.9 U | < 0.39 U |
| 2-Methylphenol | -- | -- | -- | -- | -- | < 1.9 U | < 0.39 U |
| 2-Nitrophenol | -- | -- | -- | -- | -- | < 1.9 U | < 0.39 U |
| 4,6-Dinitro-2-Methylphenol | -- | -- | -- | 765 | 280 | < 19 U | < 3.9 U |
| 4-Chloro-3-methylphenol | -- | -- | -- | -- | -- | < 1.9 U | < 0.39 U |
| 4-Methylphenol | -- | -- | -- | -- | -- | < 3.9 U | < 0.78 U |
| 4-Nitrophenol | -- | -- | -- | -- | -- | 7.6 J | < 2.9 U |
| Pentachlorophenol | -- | 7.9 | 13 | 8.2 | 3.0 | < 3.4 U | < 0.68 U |
| Phenol | -- | -- | -- | 4,600,000 | 860,000 | < 2.9 U | < 0.58 U |
| Other SVOCs (µg/L) | | | | | | | |
| 1,2,4-Trichlorobenzene | -- | -- | -- | -- | 70 | < 1.9 U | < 0.39 U |
| 1,2-Dichlorobenzene | -- | -- | -- | 17,000 | 1,300 | < 1.9 U | < 0.39 U |
| 1,3-Dichlorobenzene | -- | -- | -- | 2,600 | 960 | < 1.9 U | < 0.39 U |
| 1,4-Dichlorobenzene | -- | -- | -- | 2,600 | 190 | < 1.9 U | < 0.39 U |
| 2,4-Dinitrotoluene | -- | -- | -- | 9.1 | 3.4 | < 1.9 U | < 0.39 U |
| 2,6-Dinitrotoluene | -- | -- | -- | -- | -- | < 1.9 U | < 0.39 U |
| 2-Nitroaniline | -- | -- | -- | -- | -- | < 1.9 U | < 0.39 U |
| 3,3'-Dichlorobenzidine | -- | -- | -- | 0.077 | 0.028 | R | R |
| 3-Nitroaniline | -- | -- | -- | -- | -- | < 1.9 U | < 0.39 U |
| 4-Bromophenyl-phenylether | -- | -- | -- | -- | -- | < 1.9 U | < 0.39 U |
| 4-Chloroaniline | -- | -- | -- | -- | -- | < 1.9 U | < 0.39 U |
| 4-Chlorophenyl-phenylether | -- | -- | -- | -- | -- | < 1.9 U | < 0.39 U |

**Table M-3. Water Sample Results
Puget Sound Coatings**

| Analyte | Location ID | | | | | PS-OS-01 | PS-TS-01 |
|------------------------------|-------------------|--------|----|---------|---------|---------------|---------------|
| | Collection Date | | | | | 9/9/2014 | 9/9/2014 |
| | ISGP Benchmark | WA WQC | | NTR WQC | NR WQC | Result | Result |
| | | Marine | | HHO | HHO | | |
| | Chronic | Acute | | | | | |
| 4-Nitroaniline | -- | -- | -- | -- | -- | < 2.9 U | < 0.58 U |
| Benzoic Acid | -- | -- | -- | -- | -- | 3.1 J | 0.77 J |
| Benzyl Alcohol | -- | -- | -- | -- | -- | < 1.9 U | < 0.39 U |
| 2,2'-Oxybis(1-Chloropropane) | -- | -- | -- | 170,000 | 65,000 | < 1.9 U | < 0.39 U |
| bis(2-Chloroethoxy) Methane | -- | -- | -- | -- | -- | < 1.9 U | < 0.39 U |
| Bis-(2-Chloroethyl) Ether | -- | -- | -- | 1.4 | 0.53 | < 1.9 U | < 0.39 U |
| Carbazole | -- | -- | -- | -- | -- | < 1.9 U | < 0.39 U |
| Hexachlorobenzene | -- | -- | -- | 0.00077 | 0.00029 | < 1.9 U | < 0.39 U |
| Hexachlorobutadiene | -- | -- | -- | 50 | 18 | < 2.9 U | < 0.58 U |
| Hexachlorocyclopentadiene | -- | -- | -- | 17,000 | 1,100 | < 9.7 U | < 1.9 U |
| Hexachloroethane | -- | -- | -- | 8.9 | 3.3 | < 2.9 U | < 0.58 U |
| Isophorone | -- | -- | -- | 600 | 960 | 0.58 J | < 0.39 U |
| Nitrobenzene | -- | -- | -- | 1,900 | 690 | < 1.9 U | < 0.39 U |
| N-Nitrosodimethylamine | -- | -- | -- | 8.1 | 3.0 | < 9.7 U | < 1.9 U |
| N-Nitroso-Di-N-Propylamine | -- | -- | -- | -- | 0.51 | < 1.9 U | < 0.39 U |
| N-Nitrosodiphenylamine | -- | -- | -- | 16 | 6.0 | < 1.9 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 Method 1668C (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 M-4. Water Sample Results Compared to Criteria
Puget Sound Coatings**

| Location ID | PS-OS-01 | | | | | PS-TS-01 | | | | |
|----------------------|-------------------|-------------------|-----------------|------------------------------|-----------------------------|-------------------|-------------------|-----------------|------------------------------|-----------------------------|
| Collection Date | 9/9/2014 | | | | | 9/9/2014 | | | | |
| Analyte | Exceedance Factor | | | | | Exceedance Factor | | | | |
| | 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 | | | | | | | | | | |
| Cadmium | 1.0 | | | | | | | | | |
| Copper | | 1.9 | 1.2 | | | 1.1 | 4.0 | 2.6 | | |
| Zinc | 1.4 | 1.9 | 1.7 | | | 30 | 41 | 37 | | |
| PCB Congeners | | | | | | | | | | |
| Total PCB Congeners | | | | 72 | 192 | | | | 5.1 | 13 |

Exceedance Factors (EFs) are presented for detected concentrations only. Only chemicals with EFs > 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 M-5. Water Sample Results - PCB Congeners
Puget Sound Coatings**

| Location ID | PS-OS-01 | PS-TS-01 |
|------------------------------|---------------|--------------------|
| Collection Date | 9/9/2014 | 9/9/2014 |
| Analyte | Result | Result |
| Total PCB Congeners (µg/L) | 0.0123 J | 0.000859 J |
| Total PCB Congeners (pg/L) | 12,300 J | 859 J |
| Total Mono-CB (pg/L) | 3.56 J | < 1.75 U |
| PCB-1 | 3.56 J | < 1.21 U |
| PCB-2 | < 1.97 U* | < 1.75 U |
| PCB-3 | < 2.99 U* | < 1.49 U |
| Total Di-CB (pg/L) | 312 J | 58.6 |
| PCB-4/10 | < 5.64 U | < 5.64 U |
| PCB-5/8 | 19.5 J | < 3.59 U |
| PCB-6 | < 3.10 U | < 3.10 U |
| PCB-7/9 | < 6.22 U | < 6.22 U |
| PCB-11 | 267 | 58.6 |
| PCB-12/13 | < 5.01 U | < 5.01 U |
| PCB-14 | < 3.98 U | < 3.98 U |
| PCB-15 | 25.9 | < 2.53 U |
| Total Tri-CB (pg/L) | 226 J | 43.9 J |
| PCB-16/32 | 30.7 | 8.18 J |
| PCB-17 | 13.5 | < 3.59 U* |
| PCB-18 | 37.7 | 9.86 |
| PCB-19 | 5.66 | < 1.14 U |
| PCB-20/21/33 | 19.3 | 4.34 J |
| PCB-22 | 15.2 | 3.00 J |
| PCB-23 | < 1.35 U | < 1.00 U |
| PCB-24/27 | < 5.05 U* | < 0.789 U |
| PCB-25 | 2.73 J | < 0.979 U |
| PCB-26 | 5.97 | 1.61 J |
| PCB-28 | 36.6 | 7.53 |
| PCB-29 | < 1.58 U | < 0.989 U |
| PCB-30 | < 0.721 U | < 0.805 U |
| PCB-31 | 26.2 | 5.63 |
| PCB-34 | < 1.66 U | < 1.04 U |
| PCB-35 | 7.16 | < 1.01 U |
| PCB-36 | < 2.04 U | < 1.01 U |
| PCB-37 | 25.4 | 3.77 J |
| PCB-38 | < 1.56 U | < 1.02 U |
| PCB-39 | < 1.97 U | < 0.976 U |
| Total Tetra-CB (pg/L) | 488 J | 89.8 J |
| PCB-40 | 6.91 | 2.38 J |
| PCB-41/64/71/72 | < 1.43 U | 9.61 J |
| PCB-42/59 | 23.2 | 2.99 J |
| PCB-43/49 | 40.9 | 7.21 J |
| PCB-44 | 66.4 | 10.2 |
| PCB-45 | 13.6 | 1.93 J |
| PCB-46 | 6.21 | < 1.20 U |
| PCB-47 | 15.0 | 4.48 J |
| PCB-48/75 | 9.41 J | 2.12 J |
| PCB-50 | < 1.40 U | < 1.02 U |
| PCB-51 | 4.42 J | < 0.740 U* |
| PCB-52/69 | 83.8 | 13.9 |
| PCB-53 | 12.7 | 1.60 J |
| PCB-54 | < 1.14 U | < 0.827 U |
| PCB-55 | 2.96 J | < 0.773 U |

**Table M-5. Water Sample Results - PCB Congeners
Puget Sound Coatings**

| Location ID | PS-OS-01 | PS-TS-01 |
|------------------------------|-----------|-----------|
| Collection Date | 9/9/2014 | 9/9/2014 |
| Analyte | Result | Result |
| PCB-56/60 | 41.2 | 6.11 J |
| PCB-57 | < 0.857 U | < 0.820 U |
| PCB-58 | < 1.07 U | < 0.829 U |
| PCB-61/70 | 82.7 | 14.0 |
| PCB-62 | < 1.45 U | < 0.844 U |
| PCB-63 | < 1.64 U* | < 0.696 U |
| PCB-65 | < 0.953 U | < 0.817 U |
| PCB-67 | 54.1 | 6.72 J |
| PCB-68 | 2.50 J | < 0.851 U |
| PCB-73 | < 1.24 U | 0.949 J |
| PCB-74 | < 1.40 U | < 0.833 U |
| PCB-76/66 | 22.2 | 3.16 J |
| PCB-77 | < 21.4 U* | 2.42 J |
| PCB-78 | < 0.990 U | < 0.766 U |
| PCB-79 | < 3.20 U* | < 0.764 U |
| PCB-80 | < 0.926 U | < 0.672 U |
| PCB-81 | < 1.49 U* | < 0.686 U |
| Total Penta-CB (pg/L) | 2,350 J | 217 J |
| PCB-82 | 48.3 | 5.76 |
| PCB-83 | < 1.32 U | < 1.30 U |
| PCB-84/92 | 161 | 16.0 |
| PCB-85/116 | 50.2 | < 5.07 U* |
| PCB-86 | < 2.34 U | < 1.94 U |
| PCB-87/117/125 | 120 | 14.3 J |
| PCB-88/91 | 55.5 | 5.40 |
| PCB-89 | 3.69 J | < 1.78 U |
| PCB-90/101 | 352 | 42.0 |
| PCB-93 | < 1.47 U | < 1.47 U |
| PCB-94 | < 2.05 U* | < 1.85 U |
| PCB-95/98/102 | 334 | 28.5 |
| PCB-96 | 1.86 J | < 1.43 U |
| PCB-97 | 94.4 | 10.8 |
| PCB-99 | 99.2 | 14.5 |
| PCB-100 | < 2.03 U | < 1.56 U |
| PCB-103 | < 1.82 U* | < 1.67 U |
| PCB-104 | < 0.931 U | < 0.931 U |
| PCB-105 | 134 | < 12.3 U* |
| PCB-106/118 | 301 | 34.8 |
| PCB-107/109 | 23.4 | < 2.58 U* |
| PCB-108/112 | 17.2 | < 1.67 U* |
| PCB-110 | 500 | 42.9 |
| PCB-111/115 | 4.47 J | < 0.768 U |
| PCB-113 | < 1.31 U | 1.19 J |
| PCB-114 | 7.16 | < 1.81 U |
| PCB-119 | 5.31 | 0.829 J |
| PCB-120 | < 1.87 U* | < 1.01 U |
| PCB-121 | < 1.21 U | < 1.07 U |
| PCB-122 | 4.04 J | < 1.84 U |
| PCB-123 | 5.25 | < 1.28 U |
| PCB-124 | 20.5 | < 1.81 U* |
| PCB-126 | 8.10 | < 2.05 U |
| PCB-127 | < 0.808 U | < 0.808 U |

**Table M-5. Water Sample Results - PCB Congeners
Puget Sound Coatings**

| Location ID | PS-OS-01 | PS-TS-01 |
|------------------------------|-----------|-----------|
| Collection Date | 9/9/2014 | 9/9/2014 |
| Analyte | Result | Result |
| Total Hexa-CB (pg/L) | 4,110 J | 256 J |
| PCB-128/162 | 124 | 9.43 J |
| PCB-129 | 35.1 | 2.53 J |
| PCB-130 | 57.5 | < 3.65 U* |
| PCB-131 | < 1.46 U | < 1.46 U |
| PCB-132/161 | 239 | 15.5 |
| PCB-133/142 | 20.4 | 1.63 J |
| PCB-134/143 | 43.4 | 2.94 J |
| PCB-135 | 125 | 7.29 |
| PCB-136 | 129 | 7.19 |
| PCB-137 | 28.0 | 2.67 J |
| PCB-138/163/164 | 905 | 57.9 |
| PCB-139/149 | 827 | 48.4 |
| PCB-140 | < 3.40 U* | < 1.31 U |
| PCB-141 | 201 | 13.8 |
| PCB-144 | 44.0 | 2.97 J |
| PCB-145 | < 1.18 U | < 0.938 U |
| PCB-146/165 | 118 | 7.86 J |
| PCB-147 | 11.2 | 0.771 J |
| PCB-148 | < 1.68 U | < 1.38 U |
| PCB-150 | 1.66 J | < 0.963 U |
| PCB-151 | 252 | 13.2 |
| PCB-152 | < 1.17 U | < 0.933 U |
| PCB-153 | 720 | 49.8 |
| PCB-154 | 7.61 | < 1.16 U |
| PCB-155 | < 1.13 U | < 0.903 U |
| PCB-156 | 66.0 | 4.98 |
| PCB-157 | 19.7 | < 1.17 U |
| PCB-158/160 | 96.5 | 6.73 J |
| PCB-159 | < 1.20 U | < 1.20 U |
| PCB-166 | 2.97 J | < 0.920 U |
| PCB-167 | 33.4 | < 2.53 U* |
| PCB-168 | < 0.933 U | < 0.933 U |
| PCB-169 | < 1.12 U | < 1.12 U |
| Total Hepta-CB (pg/L) | 3,710 J | 159 J |
| PCB-170 | 385 | 18.7 |
| PCB-171 | 113 | 4.78 J |
| PCB-172 | 81.7 | 3.87 J |
| PCB-173 | 11.0 | < 1.18 U |
| PCB-174 | 488 | 20.9 |
| PCB-175 | 17.8 | < 1.01 U |
| PCB-176 | 55.5 | 2.87 J |
| PCB-177 | 272 | 10.8 |
| PCB-178 | 93.0 | 4.89 |
| PCB-179 | 208 | 8.96 |
| PCB-180 | 962 | 42.0 |
| PCB-181 | < 1.01 U | < 1.00 U |
| PCB-182/187 | 571 | 27.9 |
| PCB-183 | 239 | 10.9 |
| PCB-184 | < 1.12 U | < 0.793 U |
| PCB-185 | 62.2 | < 1.97 U* |
| PCB-186 | < 1.09 U | < 0.769 U |

**Table M-5. Water Sample Results - PCB Congeners
Puget Sound Coatings**

| Location ID | PS-OS-01 | PS-TS-01 |
|-----------------------------|-----------|-----------|
| Collection Date | 9/9/2014 | 9/9/2014 |
| Analyte | Result | Result |
| PCB-188 | < 1.52 U* | < 0.699 U |
| PCB-189 | 16.2 | < 0.885 U |
| PCB-190 | 73.5 | 2.82 J |
| PCB-191 | 16.2 | < 0.816 U |
| PCB-192 | < 1.51 U | < 0.894 U |
| PCB-193 | 46.2 | < 2.02 U* |
| Total Octa-CB (pg/L) | 986 J | 27.0 J |
| PCB-194 | 246 | 9.79 |
| PCB-195 | 98.1 | 4.11 J |
| PCB-196/203 | 263 | < 10.5 U* |
| PCB-197 | 10.7 | < 0.886 U |
| PCB-198 | 10.3 | < 1.28 U |
| PCB-199 | 257 | 11.2 |
| PCB-200 | 34.3 | < 1.63 U* |
| PCB-201 | < 31.5 U* | 1.93 J |
| PCB-202 | 55.3 | < 3.21 U* |
| PCB-204 | < 1.48 U | < 0.957 U |
| PCB-205 | 11.0 | < 1.53 U |
| Total Nona-CB (pg/L) | 111 J | 7.46 J |
| PCB-206 | 97.6 | 5.70 |
| PCB-207 | 13.6 | < 0.961 U |
| PCB-208 | < 22.4 U* | 1.76 J |
| Deca-CB (pg/L) | < 26.2 U | < 1.86 U |
| PCB-209 | < 26.2 U* | < 1.86 U |
| PCB TEQ, nd SDL*0 | 0.827 J | 0.00144 J |
| PCB TEQ, nd SDL*0.5 | 0.846 J | 0.121 J |
| PCB TEQ, nd SDL*1 | 0.864 J | 0.241 J |

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

**Table M-6. Water Sample Results - Conventionals
Puget Sound Coatings**

| | | Location ID | PS-OS-01 | PS-TS-01 |
|-------------------------------------|----------------|------------------------|----------|----------|
| | | Collection | 9/9/2014 | 9/9/2014 |
| Analyte | ISGP Benchmark | Units | Result | Result |
| Conventionals | | | | |
| Alkalinity | -- | mg/L | 87 | 97 |
| Bicarbonate | -- | mg/L CaCO ₃ | 87 | 97 |
| Carbonate | -- | mg/L CaCO ₃ | < 5 U | < 5 U |
| Chloride | -- | mg/L | 3.1 | 3.4 |
| Specific Conductance | -- | µmhos/cm | 210 | 230 |
| Hydroxide | -- | mg/L CaCO ₃ | < 5.0 U | < 5.0 U |
| Nitrate | -- | mg/L | 1.1 | 0.57 |
| pH | 5-9 | std units | 7.7 J | 7.35 J |
| Salinity | -- | mg/L | na | na |
| Sulfate | -- | mg/L | 8.4 | 7.8 |
| Dissolved Organic Carbon | -- | mg/L | na | 13 J |
| Total Organic Carbon | -- | mg/L | 5.2 | 13 |
| Total Suspended Solids ^a | 30 | mg/L | 97 | < 6.7 U |
| 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 M-7. Solids Sample Results
Puget Sound Coatings**

| Location ID | | PS-TS-01 | |
|---|---------------------------|---------------|------------------|
| Collection Date | | 9/9/2014 | |
| Analyte | SMS Criteria | | Result |
| | SCO/ LAET ^a | CSL/ 2LAET | |
| Metals (Total) (mg/kg) | | | |
| Antimony | -- | -- | 0.89 |
| Arsenic | 57 | 93 | 5.5 |
| Beryllium | -- | -- | 0.15 J |
| Cadmium | 5.1 | 6.7 | 0.93 |
| Chromium | 260 | 270 | 66 |
| Copper | 390 | 390 | 270 |
| Lead | 450 | 530 | 39 |
| Mercury | 0.41 | 0.59 | 0.28 |
| Nickel | -- | -- | 60 |
| Selenium | -- | -- | 0.5 J |
| Silver | 6.1 | 6.1 | 0.27 |
| Thallium | -- | -- | < 0.51 U |
| Zinc | 410 | 960 | 26,000 |
| PCB Aroclors (µg/kg) | | | |
| Aroclor 1016 | -- | -- | < 14 U |
| Aroclor 1221 | -- | -- | < 16 U |
| Aroclor 1232 | -- | -- | < 16 U |
| Aroclor 1242 | -- | -- | < 14 U |
| Aroclor 1248 | -- | -- | < 14 U |
| Aroclor 1254 | -- | -- | < 14 U |
| Aroclor 1260 | -- | -- | < 14 U |
| Total PCB Aroclors | 130 | 1,000 | < 14 U |
| PCB Congeners (ug/kg) ^b | | | |
| Total PCB Congeners | 130 | 1,000 | 34.4 J |
| PCB TEQ, nd SDL*0 | -- | -- | 7.4E-05 J |
| PCB TEQ, nd SDL*0.5 | -- | -- | 0.00011 J |
| PCB TEQ, nd SDL*1 | -- | -- | 0.00015 J |
| Dioxins and Furans (ng/kg) | | | |
| 2,3,7,8-TCDD | -- | -- | < 0.205 U* |
| 1,2,3,7,8-PeCDD | -- | -- | 0.97 J |
| 1,2,3,4,7,8-HxCDD | -- | -- | 1.46 J |
| 1,2,3,6,7,8-HxCDD | -- | -- | 5.78 |
| 1,2,3,7,8,9-HxCDD | -- | -- | 3.65 |
| 1,2,3,4,6,7,8-HpCDD | -- | -- | 187 |
| OCDD | -- | -- | 1,200 |
| 2,3,7,8-TCDF | -- | -- | 0.861 |
| 1,2,3,7,8-PeCDF | -- | -- | 0.518 J |
| 2,3,4,7,8-PeCDF | -- | -- | 1.34 J |
| 1,2,3,4,7,8-HxCDF | -- | -- | 1.29 J |
| 1,2,3,6,7,8-HxCDF | -- | -- | 1.33 J |
| 1,2,3,7,8,9-HxCDF | -- | -- | < 0.195 U |
| 2,3,4,6,7,8-HxCDF | -- | -- | 1.52 J |
| 1,2,3,4,6,7,8-HpCDF | -- | -- | 18.5 |
| 1,2,3,4,7,8,9-HpCDF | -- | -- | 1.16 J |
| OCDF | -- | -- | 40.2 |
| Dioxin/Furan TEQ, nd SDL*0 | 25 | -- | 5.42 J |
| Dioxin/Furan TEQ, nd SDL*0.5 | 25 | -- | 5.53 J |
| Dioxin/Furan TEQ, nd SDL*1 | 25 | -- | 6.64 J |

**Table M-7. Solids Sample Results
Puget Sound Coatings**

| Location ID | | PS-TS-01 | |
|----------------------------|---------------------------|---------------|-----------|
| Collection Date | | 9/9/2014 | |
| Analyte | SMS Criteria | | Result |
| | SCO/ LAET ^a | CSL/ 2LAET | |
| Total TCDD | -- | -- | 3.6 J |
| Total TCDF | -- | -- | 16.3 |
| Total PeCDD | -- | -- | 9.12 J |
| Total PeCDF | -- | -- | 16 |
| Total HxCDD | -- | -- | 59.3 |
| Total HxCDF | -- | -- | 23.9 |
| Total HpCDD | -- | -- | 386 |
| Total HpCDF | -- | -- | 39.2 |
| PAHs (µg/kg) | | | |
| 1-Methylnaphthalene | -- | -- | 24 J |
| 2-Chloronaphthalene | -- | -- | < 60 U |
| 2-Methylnaphthalene | 670 | 1,400 | 27 J |
| Acenaphthene | 500 | 730 | 61 |
| Acenaphthylene | 1,300 | 1,300 | < 60 U |
| Anthracene | 960 | 4,400 | 270 |
| Benzo(a)anthracene | 1,300 | 1,600 | 600 |
| Benzo(a)pyrene | 1,600 | 3,000 | 450 |
| Benzo(g,h,i)perylene | 670 | 720 | 250 |
| Chrysene | 1,400 | 2,800 | 750 |
| Dibenz(a,h)anthracene | 230 | 540 | 44 J |
| Dibenzofuran | 540 | 700 | 36 J |
| Fluoranthene | 1,700 | 2,500 | 1,200 |
| Fluorene | 540 | 1,000 | 88 |
| Indeno(1,2,3-cd)pyrene | 600 | 690 | 260 |
| Naphthalene | 2,100 | 2,400 | 100 |
| Phenanthrene | 1,500 | 5,400 | 1,000 |
| Pyrene | 2,600 | 3,300 | 1,100 |
| Total Benzofluoranthenes | 3,200 | 3,600 | 930 |
| Total HPAHs | 12,000 | 17,000 | 5,600 |
| Total LPAHs | 5,200 | 13,000 | 1,500 |
| cPAHs, nd RL*0 | 1,000 | -- | 640 |
| cPAHs, nd RL*0.5 | 1,000 | -- | 640 |
| cPAHs, nd RL*1 | 1,000 | -- | 640 |
| Phthalates (µg/kg) | | | |
| bis(2-Ethylhexyl)phthalate | 1,300 | 1,900 | 7,200 |
| Butylbenzylphthalate | 63 | 900 | 2,800 |
| Di-n-Butylphthalate | 1,400 | 5,100 | 340 J |
| Diethylphthalate | 200 | 1,200 | < 100 U |
| Dimethylphthalate | 71 | 160 | < 300 U |
| Di-n-Octyl phthalate | 6,200 | -- | 270 J |
| Phenols (µg/kg) | | | |
| 2,4,5-Trichlorophenol | -- | -- | < 300 U |
| 2,4,6-Trichlorophenol | -- | -- | < 450 U |
| 2,4-Dichlorophenol | -- | -- | < 300 U |
| 2,4-Dimethylphenol | 29 | 29 | < 300 U |
| 2,4-Dinitrophenol | -- | -- | < 3,000 U |
| 2-Chlorophenol | -- | -- | < 300 U |
| 2-Methylphenol | 63 | 63 | < 300 U |
| 2-Nitrophenol | -- | -- | < 300 U |

**Table M-7. Solids Sample Results
Puget Sound Coatings**

| | | Location ID | PS-TS-01 |
|---------------------------------------|---------------------------|-----------------|-----------------|
| | | Collection Date | 9/9/2014 |
| Analyte | SMS Criteria | | Result |
| | SCO/ LAET ^a | CSL/ 2LAET | |
| 4,6-Dinitro-2-Methylphenol | -- | -- | < 3,000 U |
| 4-Chloro-3-methylphenol | -- | -- | < 300 U |
| 4-Methylphenol | 670 | 670 | 530 J |
| 4-Nitrophenol | -- | -- | < 3,000 U |
| Pentachlorophenol | 360 | 690 | < 600 U |
| Phenol | 420 | 1,200 | 590 |
| Other SVOCs (µg/kg) | | | |
| 1,2,4-Trichlorobenzene | 31 | 51 | < 150 U |
| 1,2-Dichlorobenzene | 35 | 50 | < 160 U |
| 1,3-Dichlorobenzene | -- | -- | < 150 U |
| 1,4-Dichlorobenzene | 110 | 120 | < 150 U |
| 2,4-Dinitrotoluene | -- | -- | < 300 U |
| 2,6-Dinitrotoluene | -- | -- | < 300 U |
| 2-Nitroaniline | -- | -- | < 300 U |
| 3,3'-Dichlorobenzidine | -- | -- | < 600 U |
| 3-Nitroaniline | -- | -- | < 300 U |
| 4-Bromophenyl-phenylether | -- | -- | < 300 U |
| 4-Chloroaniline | -- | -- | < 300 U |
| 4-Chlorophenyl-phenylether | -- | -- | < 300 U |
| 4-Nitroaniline | -- | -- | < 300 U |
| Benzoic Acid | 650 | 650 | < 7,500 U |
| Benzyl Alcohol | 57 | 73 | 1,300 |
| 2,2'-Oxybis(1-Chloropropane) | -- | -- | < 750 U |
| bis(2-Chloroethoxy) Methane | -- | -- | < 300 U |
| Bis-(2-Chloroethyl) Ether | -- | -- | < 300 U |
| Carbazole | -- | -- | 76 J |
| Hexachlorobenzene | 22 | 70 | < 150 U |
| Hexachlorobutadiene | 11 | 120 | < 150 U |
| Hexachlorocyclopentadiene | -- | -- | < 300 U |
| Hexachloroethane | -- | -- | 1,200 |
| Isophorone | -- | -- | 44 J |
| Nitrobenzene | -- | -- | 120 J |
| N-Nitrosodimethylamine | -- | -- | < 3,000 U |
| N-Nitroso-Di-N-Propylamine | -- | -- | < 300 U |
| N-Nitrosodiphenylamine | 28 | 40 | < 150 U |
| VOCs (µg/kg) | | | |
| 1,1,1,2-Tetrachloroethane | -- | -- | < 1.5 UJ |
| 1,1,1-Trichloroethane | -- | -- | < 1.5 UJ |
| 1,1,2,2-Tetrachloroethane | -- | -- | < 3.1 UJ |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | -- | -- | < 1.5 UJ |
| 1,1,2-Trichloroethane | -- | -- | < 3.1 UJ |
| 1,1-Dichloroethane | -- | -- | < 1.5 UJ |
| 1,1-Dichloroethene | -- | -- | < 7.7 UJ |
| 1,1-Dichloropropene | -- | -- | < 1.5 UJ |
| 1,2,3-Trichlorobenzene | -- | -- | < 180 UJ |
| 1,2,3-Trichloropropane | -- | -- | < 180 UJ |
| 1,2,4-Trimethylbenzene | -- | -- | 16,000 J |
| 1,2-Dibromo-3-chloropropane | -- | -- | < 880 UJ |
| 1,2-Dibromoethane | -- | -- | < 1.5 UJ |
| 1,2-Dichloroethane | -- | -- | < 1.5 UJ |

**Table M-7. Solids Sample Results
Puget Sound Coatings**

| | | Location ID | PS-TS-01 |
|-----------------------------|---------------------------|-----------------|-----------------|
| | | Collection Date | 9/9/2014 |
| Analyte | SMS Criteria | | Result |
| | SCO/ LAET ^a | CSL/ 2LAET | |
| 1,2-Dichloropropane | -- | -- | < 1.5 UJ |
| 1,3,5-Trimethylbenzene | -- | -- | 13,000 J |
| 1,3-Dichloropropane | -- | -- | < 3.1 UJ |
| 2,2-Dichloropropane | -- | -- | < 7.7 UJ |
| 2-Chloroethylvinylether | -- | -- | < 7.7 UJ |
| 2-Chlorotoluene | -- | -- | < 180 UJ |
| 2-Hexanone | -- | -- | < 7.7 UJ |
| 4-Chlorotoluene | -- | -- | < 180 UJ |
| Acetone | -- | -- | 190 J |
| Acrolein | -- | -- | < 46 UJ |
| Acrylonitrile | -- | -- | < 15 UJ |
| Benzene | -- | -- | 0.81 J |
| Bromobenzene | -- | -- | < 180 UJ |
| Bromochloromethane | -- | -- | < 3.1 UJ |
| Bromoform | -- | -- | < 180 UJ |
| Bromomethane | -- | -- | < 1.5 UJ |
| Carbon Disulfide | -- | -- | 1.0 J |
| Carbon Tetrachloride | -- | -- | < 1.5 UJ |
| Chlorobenzene | -- | -- | < 1.5 UJ |
| Dibromochloromethane | -- | -- | < 1.5 UJ |
| Chloroethane | -- | -- | < 1.5 UJ |
| Chloroform | -- | -- | < 1.5 UJ |
| Chloromethane | -- | -- | < 1.5 UJ |
| cis-1,2-Dichloroethene | -- | -- | < 1.5 UJ |
| cis-1,3-Dichloropropene | -- | -- | < 1.5 UJ |
| Dibromomethane | -- | -- | < 1.5 UJ |
| Bromodichloromethane | -- | -- | < 1.5 UJ |
| Dichlorodifluoromethane | -- | -- | < 1.5 UJ |
| Ethylbenzene | -- | -- | 310 J |
| Isopropylbenzene | -- | -- | 100 J |
| m,p-Xylene | -- | -- | 5,000 J |
| 2-Butanone | -- | -- | 28 J |
| Iodomethane | -- | -- | < 23 UJ |
| 4-Methyl-2-Pentanone (MIBK) | -- | -- | 110 J |
| Methyl tert-Butyl Ether | -- | -- | < 1.5 UJ |
| Methylene Chloride | -- | -- | < 23 UJ |
| n-Butylbenzene | -- | -- | 2,100 J |
| n-Propylbenzene | -- | -- | 1,700 J |
| o-Xylene | -- | -- | 7,200 |
| 4-Isopropyltoluene | -- | -- | 510 J |
| sec-Butylbenzene | -- | -- | 600 J |
| Styrene | -- | -- | < 3.1 UJ |
| tert-Butylbenzene | -- | -- | < 180 UJ |
| Tetrachloroethene | -- | -- | < 1.5 UJ |
| Toluene | -- | -- | 34 J |
| Total Xylenes | -- | -- | 12,200 J |
| trans-1,2-Dichloroethene | -- | -- | < 1.5 UJ |
| trans-1,3-Dichloropropene | -- | -- | < 1.5 UJ |
| trans-1,4-Dichloro-2-butene | -- | -- | < 880 UJ |
| Trichloroethene | -- | -- | < 1.5 UJ |

**Table M-7. Solids Sample Results
Puget Sound Coatings**

| Location ID | | PS-TS-01 | |
|------------------------------|---------------------------|---------------|----------------|
| Collection Date | | 9/9/2014 | |
| Analyte | SMS Criteria | | Result |
| | SCO/ LAET ^a | CSL/ 2LAET | |
| Trichlorofluoromethane | -- | -- | < 1.5 UJ |
| Vinyl Acetate | -- | -- | < 7.7 UJ |
| Vinyl Chloride | -- | -- | < 1.5 UJ |
| TPH (mg/kg) | | | |
| Gasoline-Range Hydrocarbons | 30/100 | -- | 330 |
| Diesel-Range Hydrocarbons | 2,000 | -- | 1,300 J |
| Motor Oil-Range Hydrocarbons | 2,000 | -- | 6,000 J |
| Grain size (%) | | | |
| Clay | -- | -- | 1.8 |
| Silt | -- | -- | 33 |
| Sand | -- | -- | 65 |
| Gravel | -- | -- | 0.40 |
| Cobbles | -- | -- | 0.0 |
| Conventionals (%) | | | |
| Total Organic Carbon | -- | -- | 5.0 J |
| Total Solids | -- | -- | 66.7 |

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 Method 1668C (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.

**Table M-8. Solids Sample Results Compared to Dry Weight Criteria
Puget Sound Coatings**

| Location ID | PS-TS-01 | |
|------------------------------|-------------------|---------------|
| Collection Date | 9/9/2014 | |
| Analyte | Exceedance Factor | |
| | SCO/ LAET | CSL/ 2LAET |
| Metals (Total) | | |
| Zinc | 63 | 27 |
| Phthalates | | |
| bis(2-Ethylhexyl)phthalate | 5.5 | 3.8 |
| Butylbenzylphthalate | 44 | 3.1 |
| Phenols | | |
| Phenol | 1.4 | |
| Other SVOCs | | |
| Benzyl Alcohol | 23 | 18 |
| TPH | | |
| Gasoline-Range Hydrocarbons | 11 | |
| Motor Oil-Range Hydrocarbons | 3.0 | |

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 M-9. Solids Sample Results - PCB Congeners
Puget Sound Coatings**

| Location ID | PS-TS-01 |
|--|----------------|
| Collection Date | 9/9/2014 |
| Analyte | Result |
| Total PCB Congeners (ng/kg) ^a | 34,400 J |
| Total Monochlorobiphenyl (ng/kg)^a | 444 |
| PCB-1 | 273 |
| PCB-2 | 68.4 |
| PCB-3 | 103 |
| Total Dichlorobiphenyl (ng/kg)^a | 1,970 J |
| PCB-4/10 | 127 J |
| PCB-5/8 | 290 |
| PCB-6 | 103 |
| PCB-7/9 | 97.5 J |
| PCB-11 | 1,160 |
| PCB-12/13 | 65.4 J |
| PCB-14 | < 0.337 U |
| PCB-15 | 123 |
| Total Trichlorobiphenyl (ng/kg)^a | 863 J |
| PCB-16/32 | 101 J |
| PCB-17 | 47.3 J |
| PCB-18 | 141 |
| PCB-19 | < 0.612 U |
| PCB-20/21/33 | 106 J |
| PCB-22 | 53.5 |
| PCB-23 | < 0.543 U |
| PCB-24/27 | 15.3 J |
| PCB-25 | < 15.4 U* |
| PCB-26 | < 34.7 U* |
| PCB-28 | 125 |
| PCB-29 | < 0.949 U |
| PCB-30 | < 0.355 U |
| PCB-31 | 141 |
| PCB-34 | < 1.57 U |
| PCB-35 | 38.5 J |
| PCB-36 | < 0.406 U |
| PCB-37 | 94.0 |
| PCB-38 | < 0.528 U |
| PCB-39 | < 0.461 U |
| Total Tetrachlorobiphenyl (ng/kg)^a | 2,270 J |
| PCB-40 | 74.1 |
| PCB-41/64/71/72 | 224 |
| PCB-42/59 | 69.0 J |
| PCB-43/49 | 172 |
| PCB-44 | 275 |
| PCB-45 | < 24.5 U* |
| PCB-46 | < 0.537 U |
| PCB-47 | 48.7 J |
| PCB-48/75 | 37.8 J |
| PCB-50 | < 0.603 U |
| PCB-51 | < 0.789 U |
| PCB-52/69 | 326 |
| PCB-53 | < 26.0 U* |
| PCB-54 | < 0.275 U |
| PCB-55 | < 0.416 U |
| PCB-56/60 | 163 |

**Table M-9. Solids Sample Results - PCB Congeners
Puget Sound Coatings**

| Location ID | PS-TS-01 |
|--|----------------|
| Collection Date | 9/9/2014 |
| Analyte | Result |
| PCB-57 | < 0.354 U |
| PCB-58 | < 0.589 U |
| PCB-61/70 | 432 |
| PCB-62 | < 0.597 U |
| PCB-63 | < 0.524 U |
| PCB-65 | < 0.842 U |
| PCB-67 | 205 |
| PCB-68 | < 0.486 U |
| PCB-73 | < 0.658 U |
| PCB-74 | < 0.454 U |
| PCB-76/66 | 100 |
| PCB-77 | 127 |
| PCB-78 | < 0.385 U |
| PCB-79 | 20.0 J |
| PCB-80 | < 0.336 U |
| PCB-81 | < 0.674 U |
| Total Pentachlorobiphenyl (ng/kg)^a | 8,010 J |
| PCB-82 | 156 |
| PCB-83 | < 0.440 U |
| PCB-84/92 | 513 |
| PCB-85/116 | 195 |
| PCB-86 | < 1.79 U |
| PCB-87/117/125 | 469 |
| PCB-88/91 | 131 |
| PCB-89 | < 8.48 U* |
| PCB-90/101 | 1,570 |
| PCB-93 | < 1.42 U |
| PCB-94 | < 0.874 U |
| PCB-95/98/102 | 823 |
| PCB-96 | < 0.588 U |
| PCB-97 | 352 |
| PCB-99 | 450 |
| PCB-100 | < 0.511 U |
| PCB-103 | < 0.428 U |
| PCB-104 | < 0.876 U |
| PCB-105 | 472 |
| PCB-106/118 | 1,220 |
| PCB-107/109 | 75.5 J |
| PCB-108/112 | 65.1 J |
| PCB-110 | 1,490 |
| PCB-111/115 | < 24.0 U* |
| PCB-113 | < 41.2 U* |
| PCB-114 | < 0.418 U |
| PCB-119 | < 0.383 U |
| PCB-120 | < 0.622 U |
| PCB-121 | < 0.978 U |
| PCB-122 | < 0.619 U |
| PCB-123 | 23.7 J |
| PCB-124 | < 52.0 U* |
| PCB-126 | < 0.543 U |
| PCB-127 | < 0.326 U |

**Table M-9. Solids Sample Results - PCB Congeners
Puget Sound Coatings**

| Location ID | PS-TS-01 |
|--|-----------|
| Collection Date | 9/9/2014 |
| Analyte | Result |
| Total Hexachlorobiphenyl (ng/kg)^a | 10,000 J |
| PCB-128/162 | 350 |
| PCB-129 | 101 |
| PCB-130 | 145 |
| PCB-131 | < 0.731 U |
| PCB-132/161 | 586 |
| PCB-133/142 | 83.2 J |
| PCB-134/143 | 114 |
| PCB-135 | 274 |
| PCB-136 | 251 |
| PCB-137 | 104 |
| PCB-138/163/164 | 2,170 |
| PCB-139/149 | 1,860 |
| PCB-140 | < 1.20 U |
| PCB-141 | 486 |
| PCB-144 | 127 |
| PCB-145 | < 1.05 U |
| PCB-146/165 | 284 |
| PCB-147 | < 25.8 U* |
| PCB-148 | < 1.45 U |
| PCB-150 | < 0.801 U |
| PCB-151 | 596 |
| PCB-152 | < 0.744 U |
| PCB-153 | 1,870 |
| PCB-154 | 28.4 J |
| PCB-155 | < 0.767 U |
| PCB-156 | 203 |
| PCB-157 | 53.2 |
| PCB-158/160 | 243 |
| PCB-159 | < 0.578 U |
| PCB-166 | < 0.425 U |
| PCB-167 | 77.0 |
| PCB-168 | < 0.502 U |
| PCB-169 | < 0.767 U |
| Total Heptachlorobiphenyl (ng/kg)^a | 7,550 J |
| PCB-170 | 698 |
| PCB-171 | 184 |
| PCB-172 | 130 |
| PCB-173 | < 0.507 U |
| PCB-174 | 967 |
| PCB-175 | 42.2 J |
| PCB-176 | 120 |
| PCB-177 | 526 |
| PCB-178 | 197 |
| PCB-179 | 472 |
| PCB-180 | 2,240 |
| PCB-181 | < 1.26 U |
| PCB-182/187 | 1,110 |
| PCB-183 | 492 |
| PCB-184 | < 0.597 U |
| PCB-185 | 104 |
| PCB-186 | < 0.421 U |





**Table M-9. Solids Sample Results - PCB Congeners
Puget Sound Coatings**



| Location ID | PS-TS-01 |
|---|-----------|
| Collection Date | 9/9/2014 |
| Analyte | Result |
| PCB-188 | < 0.759 U |
| PCB-189 | < 56.3 U* |
| PCB-190 | 129 |
| PCB-191 | 35.8 J |
| PCB-192 | < 0.528 U |
| PCB-193 | 106 |
| Total Octachlorobiphenyl (ng/kg)^a | 2,650 J |
| PCB-194 | 549 |
| PCB-195 | 206 |
| PCB-196/203 | 735 |
| PCB-197 | 39.8 J |
| PCB-198 | < 0.792 U |
| PCB-199 | 728 |
| PCB-200 | 92.2 |
| PCB-201 | 132 |
| PCB-202 | 172 |
| PCB-204 | < 0.543 U |
| PCB-205 | < 0.471 U |
| Total Nonachlorobiphenyl (ng/kg)^a | 566 J |
| PCB-206 | 440 |
| PCB-207 | < 54.8 U* |
| PCB-208 | 126 |
| Decachlorobiphenyl (ng/kg) | 92.2 |
| PCB-209 | 92.2 |
| PCB TEQ, nd SDL*0 | 0.074 J |
| PCB TEQ, nd SDL*0.5 | 0.114 J |
| PCB TEQ, nd SDL*1 | 0.153 J |

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

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 M-1
Inspection Photographic Log

| Conveyance Structure Information | |
|--|---|
| Structure Identification Number: PS-TS-01 |   |
| Structure Type: Sump | |
| General Location: Northeast corner of facility | |
| Characteristics: 12' to bottom of structure, 10' depth to water, ~6" of sediment | |
| Pump Capacity (gpm): -- | |
| Design Storm: -- | |
| Access: Manhole | |
| Volume Gauge: -- | |
| Sample ID: PS-TS-01-20140910-W PS-TS-01-20140910-S | |
| Drainage Information: | |
| Location TS-01 receives stormwater from all drainage areas at the PSC facility. Stormwater is collected in catch basins and conveyed to the sump in TS-01. Stormwater is pumped from the sump to the ion exchange stormwater treatment system. Following treatment, stormwater is conveyed to the SPU 10 th Avenue S drainage line. |   |

| Conveyance Structure Information | |
|--|---|
| Structure Identification Number: PS-OS-01 | N→ |
| Structure Type: Manhole |  |
| General Location: Northeast corner of facility | |
| Characteristics: 12' to bottom of structure, 10' depth to water | |
| Pump Capacity (gpm): -- | |
| Design Storm: -- | |
| Access: Manhole | |
| Volume Gauge: -- | |
| Sample ID: PS-OS-01-20140910-W | |
| Drainage Information: | |
| <p>Manhole OS-01 is located on the 48-inch bypass drainage line that conveys upgradient groundwater through the PSC facility. Manhole OS-01 is located in the northeast corner of the facility, adjacent to TS-01. The effluent drainage of OS-01 reconnects with the effluent from the treatment system at PSC and commingled water is conveyed to the SPU drainage line on 10th Avenue S. Location OS-01 was selected for sampling to assess the whether or not the bypass groundwater contained hexavalent chromium.</p> | <p>N→</p>  |

Attachment M-2
Field Documentation

2/4/14

Location Puget Sound Coarings Date 9/9/14
Project / Client NPDES/Ecology

Van
st America
and
ple coolers
notify
10:30
drate
de coolers
eco"
Equipment
effort
at
reals on
office

0640 C Wilson departs home and
Stops to purchase ice

0655 C Wilson arrives at field office

0700 M Ivancovich arrives at field office
Field team re-bags ice, builds
sample bags, and loads field vehicle

0830 Leidos departs field office
for Puget Sound Coarings

0847 Arrive at Puget Sound Coarings
~~conducted H&S meeting with 09/09/14~~
- Ecology onsite: Bob Wright &
Alex White

- Discussed split sampling:
confirmed no split sampling

- Discussed purpose of inspection:
to confirm drainage; sampling
for LDW source control

0925 H&S meeting conducted

0930 Leidos inspected manhole
representing bypass water possible
location for hex chrome sample

0940 Leidos inspected manhole along
vault. small amount of solids

Location Puget Sound Coatings Date 09/09/14
 Project / Client NPDES/Ecology

- along edge 48 inch drainage pipe.
- 0945 Leidos investigates manholes at drainage yard/vault area. Drain to S has 48 inch drainage pipe entering - only onsite water. Representative of all onsite. Good candidate for sediment sampling. Also collect water.
- Drain to N is both onsite & offsite.
 - Collect water sample possibly from drain immediately N of onsite drain. Drain immediately N is bypass drain.
- 1000 C. Nancarrow onsite
 Leidos Setup to sample at manhole sump pump that pumps water to stormwater treatment system. Water sample is PS-TS-01-20140909-W. Location receives SW from all drain lines on site.
- 1030 PSC representative is discussing with his management whether or not to collect split samples.
- 1045 Collected Hexavalent Chrome rinse blank

Location Puget Sound Coatings Date 9/9/14
 Project / Client NPDES/Ecology

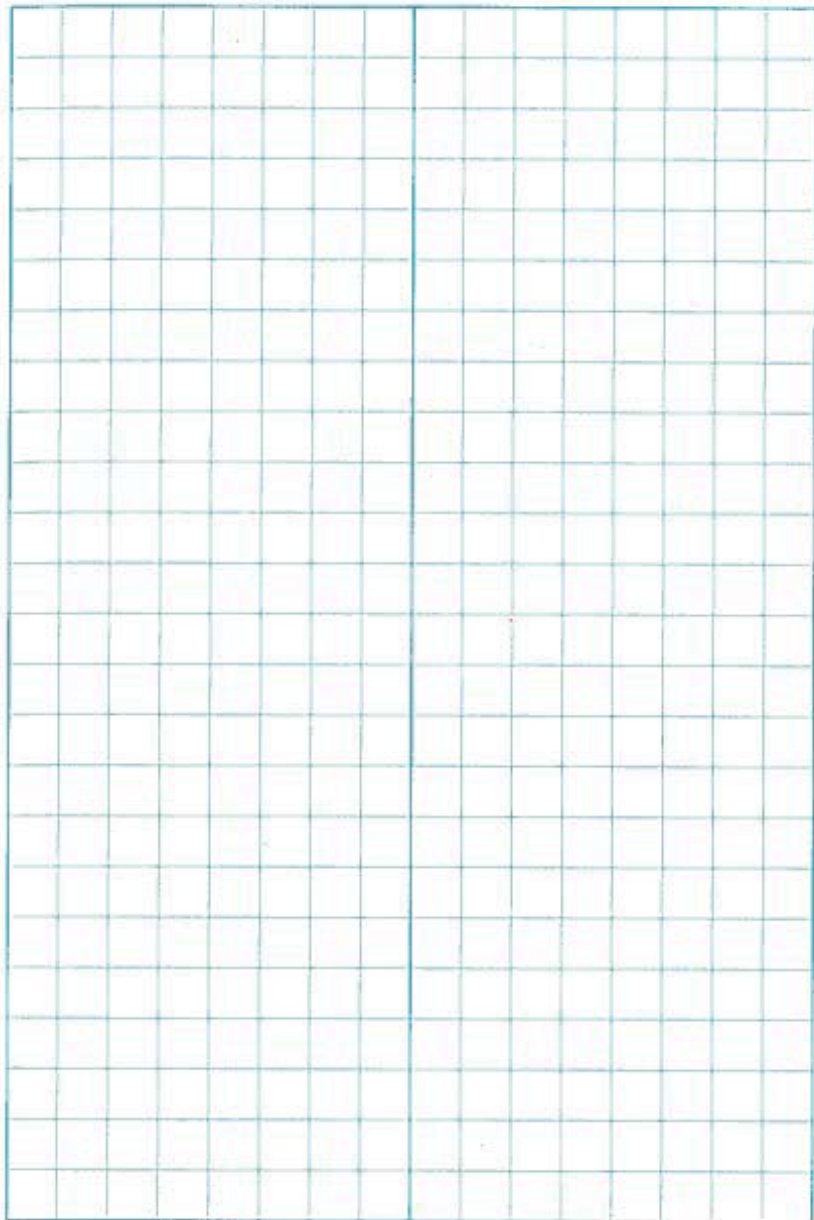
- 1045 Sample QC-EB-02-20140909-W
 Setup to collect water sample at CB-2. CB-2 is the influent sump to treatment system.
- 1055 PSC consultant John Allen onsite.
- 1115 Begin collecting water sample PS-TS-01-20140909-W at CB-2.
- 1130 Emmanuel from Puget Sound Coatings onsite to take photos.
- Disconnected equipment and set up to collect water sample PS-OS-01-20140909-W. Location PS-OS-01 is a manhole that contains bypass water from apparent ground water upgradient of site. on 9/9/14
- 1220 Collect sample ~~PS-01~~ PS-OS-01-20140909-W. Collected all analytes including Hexavalent Chrome. At start of sampling water Chrome in drain had low turbidity. As additional grab samples were needed turbidity levels increased.
- 1250 Break for lunch with a/9/14
- 1305 Began setup at ~~PS-01~~ CB-2 for solids sampling.

Location Puget sound Coatings Date 09/09/14
 Project / Client NPDES/Ecology

- 1350 Begin solids sampling at CB-2
 Sample ID PS-TS-01-20140909-S
- 1415 Completed solids sampling at CB-2.
 Begin completing COCs and preparing split samples for transfer to PSC.
- 1425 PSC signs COCs. Split samples transferred to PSC.
 - Leidos packs up sampling equipment.
- 1445 Ecology and Leidos offsite.
 Leidos mobbed to field office to transfer samples to Test America courier.
- 1500 Leidos relinquished samples to Paco w/ Test America
 Leidos de mobbed at field office and packaged samples to be shipped to Vista via Fedex.
- 1600 C. Wilson delivered samples in a secured cooler to Fedex for shipment to Vista.
- 1605 All personnel offsite

~~9/1~~

Location _____ Date _____
 Project / Client _____





Sediment Collection Form

Project: NPDES Sampling Support

Location ID: PS-TS-01 (CB-2)

Facility Name: Puyat Sound County

Sample ID: PS-TS-01-20140909-S

Sampled By: CW/MT

Date: 9/9/2014 Time: 1350

| | | | |
|---|--|--|---|
| Structure Type: <u>Manhole</u> | Dimensions: Standard W _____ L <u>Manhole</u> | Standing Water: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | Flow: <u>Drip flow</u> <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Conveyance System Sketch | | | |
| Depth to Bottom: <u>~12</u> ft | Depth to Water: <u>~10</u> ft | Depth of Sediment: <u>~6</u> in | Sampled: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <u>Discrete / Composite (circle one)</u> |
| Sediment type: Cobble Gravel <u>Sand (M/F)</u> Silt/clay Organic matter Debris | Sediment color: Drab olive <u>Brown Dark</u> Brown surface Gray Black Tan | Sediment Odor: None Slight <u>Moderate</u> Strong Overwhelming H ₂ S <u>Petroleum</u> | Comments: Photo ID(s): <u>Photos Taken</u> GPS ID: <u>No GPS</u> |

NOTES: Facility location ID is CB-02. Location receives influent from western and southern drainage lines. SW is pumped from this sump to the treatment system. During large flow, SW may pass through 1" PVC elbow located in the NE portion of the sump. Collected both a water & solids sample

Recorded By/Date: Coy A. [Signature] 9/9/14

Reviewed By/Date: [Signature] 9/9/14

Attachment M-3
Chain of Custody Forms

| | | | | | |
|--|--|--|--|---|---|
| Client <u>Leidos</u> | | Client Contact <u>Christine Narasimhan</u> | | Date <u>9/14</u> | Chain of Custody Number <u>24944</u> |
| Address <u>18918 N Creek Parkway Ste 101</u> | | Telephone Number (Area Code)/Fax Number <u>206.300.2144</u> | | Lab Number <u>1</u> | Page <u>1</u> of <u>2</u> |
| City <u>Plattbill</u> | | Sampler <u>Cory Wilson</u> | | Analysis (Attach list if more space is needed) | |
| State <u>WA</u> | | Billing Contact <u>Kris Allen</u> | | Special Instructions/ Conditions of Receipt | |
| Zip Code <u>98011</u> | | Lab Contact <u>Kris Allen</u> | | Please show written confirmation from Leidos Phycology department of samples. | |
| Project Name and Location (State) <u>NODES Sustainability Support / Wa</u> | | Containers & Preservatives | | | |
| Contract/Purchase Order/Quote No. | | Matrix | | | |
| Sample I.D. and Location/Description (Containers for each sample may be combined on one line) | | Air | | | |
| | | Aqueous | | | |
| | | Soil | | | |
| | | Unpres. | | | |
| | | H2SO4 | | | |
| | | HNO3 | | | |
| | | HCl | | | |
| | | NaOH | | | |
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Rush

Short Hold

Chain of Custody Record

| | | | | | | | | | | | | | |
|--|--------------------|--|-------------------------------|--|--|----------------|----------|-------|------|-----|------|-----------|------|
| Client <i>Leidos</i> | | Client Contact <i>Christine Neenan</i> | | Date <i>9/9/14</i> | Chain of Custody Number 24946 | | | | | | | | |
| Address <i>1900 N Cook Place Ste 101</i> | | Telephone Number (Area Code)/Fax Number <i>806.200.2144</i> | | Lab Number | Page <i>2</i> of <i>2</i> | | | | | | | | |
| City <i>Bothell</i> | State <i>WA</i> | Zip Code <i>97011</i> | Sampler <i>Cory Wilson</i> | Lab Contact <i>Kris Allen</i> | Analysis (Attach list if more space is needed) | | | | | | | | |
| Project Name and Location (State) <i>NIDES Sampling Report / WA</i> | | Billing Contact | | | | | | | | | | | |
| Contract/Purchase Order/Quote No. <i>PS-TS-01-20140909-5</i> | | Matrix | | Special Instructions/ Conditions of Receipt | | | | | | | | | |
| Sample I.D. and Location/Description (Containers for each sample may be combined on one line) | Date | Time | Air | Aqueous | Sed. | Soil | Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | TEOH |
| | <i>9/9/14</i> | <i>1950</i> | | | <i>✓</i> | <i>9/11/14</i> | <i>3</i> | | | | | | |
| <i>ALL 9/11/14</i> | | | | | | | | | | | | | |

Copier Yes No Cooler Temp: _____

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Archive For

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

Turn Around Time Required (business days)
 24 Hours 48 Hours 5 Days 10 Days 15 Days Other _____

DC Requirements (Specify)

| | | |
|---|-----------------------|---------------------|
| 1. Relinquished By Sign/Print <i>[Signature]</i> | Date <i>9/9/14</i> | Time <i>1500</i> |
| 2. Relinquished By Sign/Print <i>[Signature]</i> | Date | Time |
| 3. Relinquished By Sign/Print | Date | Time |

1. Received By Sign/Print
[Signature] *Francisco Lopez, Jr.* Date *9/9/14* Time *1500*

2. Received By Sign/Print

3. Received By Sign/Print

Comments

Attachment M-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: 580-45294-1

Client Project/Site: NPDES Sampling Support/WA

For:

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

Attn: Christine Nancarrow



Authorized for release by:
9/29/2014 1:50:07 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Table of Contents

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| Chronicle | 23 |
| Certification Summary | 25 |
| Sample Summary | 26 |
| Chain of Custody | 27 |
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Case Narrative

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

TestAmerica Job ID: 580-45294-1

Job ID: 580-45294-1

Laboratory: TestAmerica Seattle

Narrative

Receipt

The samples were received on 9/9/2014 4:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.8° C.

GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 170329 recovered above the upper control limit for Diethyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 580-170329/3), (LCSD 580-169357/3-A), (MB 580-169357/1-A), PS-OS-01-20140909-W (580-45294-3), PS-TS-01-20140909-W (580-45294-2).

Method(s) 8270D: The laboratory control sample (LCS) for 169357 recovered outside acceptance limits for 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Chloroaniline, N-Nitrosodiphenylamine and 2,4-Dimethylphenol. (These five failures are over the limit of four marginal exceedances allowed when a full list spike is utilized for this method.) The LCSD was outside control limits for 3,3'-Dichlorobenzidine. There was insufficient sample to perform a re-extraction or re-analysis; therefore, the data have been reported.

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 169357 recovered outside control limits for the following analytes: 3-Nitroaniline, 4-Chloroaniline, N-Nitrosodiphenylamine, 4-Nitroaniline and 2,4-Dimethylphenol.

Method(s) 8270D: The following samples was diluted due to the nature of the sample matrix: PS-OS-01-20140909-W (580-45294-3). Elevated reporting limits (RLs) are provided.

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

Metals

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

General Chemistry

Method(s) 160.2, SM 2540D: The laboratory control sample (LCS) for batch 169789 recovered outside control limits for the following analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) SM 2540D: The sample duplicate (DUP) precision for batch 169944 using sample 45354-1 was outside control limits. Sample non-homogeneity is suspected because the associated laboratory control sample (LCS) precision was within acceptance limits, as was a second duplicate within the same batch.

Method(s) SM 4500 H+ B: The sample duplicate (DUP) precision for batch 169402 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

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

Organic Prep

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

Definitions/Glossary

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

TestAmerica Job ID: 580-45294-1

Qualifiers

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| * | LCS or LCSD exceeds the control limits |
| * | RPD of the LCS and LCSD exceeds the control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits. |

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. |
| 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. |

General Chemistry

| Qualifier | Qualifier Description |
|-----------|--|
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. |
| * | LCS or LCSD exceeds the control limits |
| F3 | Duplicate RPD exceeds the control limit |

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) |
| 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 Sample Results

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

TestAmerica Job ID: 580-45294-1

Client Sample ID: QC-EB-02-20140909-W

Lab Sample ID: 580-45294-1

Date Collected: 09/09/14 10:45

Matrix: Water

Date Received: 09/09/14 16:15

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chromium, hexavalent | ND | | 0.012 | 0.0060 | mg/L | | | 09/10/14 09:42 | 1 |

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Client Sample Results

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

TestAmerica Job ID: 580-45294-1

Client Sample ID: PS-TS-01-20140909-W

Lab Sample ID: 580-45294-2

Date Collected: 09/09/14 11:15

Matrix: Water

Date Received: 09/09/14 16:15

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Phenol | ND | | 0.58 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Bis(2-chloroethyl)ether | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 2-Chlorophenol | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Benzyl alcohol | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 2-Methylphenol | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 3 & 4 Methylphenol | ND | | 0.78 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Hexachloroethane | ND | | 0.58 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Nitrobenzene | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Isophorone | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 2-Nitrophenol | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 2,4-Dimethylphenol | ND | * | 1.9 | 0.29 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Benzoic acid | 0.77 | J | 2.9 | 0.58 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 2,4-Dichlorophenol | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Naphthalene | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 4-Chloroaniline | ND | * | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Hexachlorobutadiene | ND | | 0.58 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 4-Chloro-3-methylphenol | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 2-Methylnaphthalene | ND | | 0.19 | 0.019 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 1-Methylnaphthalene | ND | | 0.058 | 0.029 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Hexachlorocyclopentadiene | ND | | 1.9 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.58 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 2-Chloronaphthalene | ND | | 0.058 | 0.019 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 2-Nitroaniline | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Dimethyl phthalate | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Acenaphthylene | ND | | 0.078 | 0.019 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 2,6-Dinitrotoluene | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 3-Nitroaniline | ND | * | 0.39 | 0.12 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Acenaphthene | ND | | 0.097 | 0.019 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 2,4-Dinitrophenol | ND | | 4.8 | 0.97 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 4-Nitrophenol | ND | | 2.9 | 0.97 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Dibenzofuran | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Diethyl phthalate | ND | ^ | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Fluorene | ND | | 0.058 | 0.019 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 4-Nitroaniline | ND | * | 0.58 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 3.9 | 0.97 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| N-Nitrosodiphenylamine | ND | * | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Hexachlorobenzene | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Pentachlorophenol | ND | | 0.68 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Phenanthrene | ND | | 0.078 | 0.019 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-45294-1

Client Sample ID: PS-TS-01-20140909-W

Lab Sample ID: 580-45294-2

Date Collected: 09/09/14 11:15

Matrix: Water

Date Received: 09/09/14 16:15

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Anthracene | ND | | 0.039 | 0.0097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Carbazole | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Di-n-butyl phthalate | ND | | 0.39 | 0.13 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Fluoranthene | ND | | 0.048 | 0.013 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Pyrene | ND | | 0.058 | 0.013 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Butyl benzyl phthalate | ND | | 0.58 | 0.19 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 3,3'-Dichlorobenzidine | ND | * | 1.9 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Benzo[a]anthracene | ND | | 0.058 | 0.019 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Chrysene | ND | | 0.039 | 0.013 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 2.9 | 1.1 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Di-n-octyl phthalate | ND | | 0.39 | 0.17 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Benzo[b]fluoranthene | ND | | 0.078 | 0.019 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Benzo[k]fluoranthene | ND | | 0.058 | 0.019 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Benzo[a]pyrene | ND | | 0.039 | 0.019 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.020 | J | 0.058 | 0.019 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.058 | 0.019 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.058 | 0.019 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| N-Nitrosodimethylamine | ND | | 1.9 | 0.19 | ug/L | | 09/10/14 14:25 | 09/21/14 03:13 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorophenol | 75 | | 30 - 134 | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Phenol-d5 | 83 | | 52 - 120 | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 2,4,6-Tribromophenol | 99 | | 44 - 125 | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Nitrobenzene-d5 | 77 | | 59 - 120 | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| 2-Fluorobiphenyl | 74 | | 50 - 120 | 09/10/14 14:25 | 09/21/14 03:13 | 1 |
| Terphenyl-d14 | 95 | | 64 - 150 | 09/10/14 14:25 | 09/21/14 03:13 | 1 |

Method: 200.8 - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|----------------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Arsenic | ND | | 0.0010 | 0.00075 | mg/L | | 09/10/14 14:05 | 09/10/14 19:11 | 1 |
| Antimony | 0.00095 | | 0.00040 | 0.000080 | mg/L | | 09/10/14 14:05 | 09/10/14 19:11 | 1 |
| Beryllium | ND | | 0.00040 | 0.00010 | mg/L | | 09/10/14 14:05 | 09/10/14 19:11 | 1 |
| Cadmium | 0.00026 | J | 0.00040 | 0.000028 | mg/L | | 09/10/14 14:05 | 09/10/14 19:11 | 1 |
| Chromium | 0.0020 | | 0.00040 | 0.00027 | mg/L | | 09/10/14 14:05 | 09/10/14 19:11 | 1 |
| Copper | 0.015 | | 0.0010 | 0.00011 | mg/L | | 09/10/14 14:05 | 09/10/14 19:11 | 1 |
| Lead | 0.0010 | | 0.00040 | 0.000034 | mg/L | | 09/10/14 14:05 | 09/10/14 19:11 | 1 |
| Nickel | 0.0030 | | 0.0030 | 0.00040 | mg/L | | 09/10/14 14:05 | 09/10/14 19:11 | 1 |
| Selenium | 0.00080 | J | 0.0010 | 0.00071 | mg/L | | 09/10/14 14:05 | 09/10/14 19:11 | 1 |
| Silver | ND | | 0.00040 | 0.000030 | mg/L | | 09/10/14 14:05 | 09/10/14 19:11 | 1 |
| Thallium | ND | | 0.0010 | 0.00028 | mg/L | | 09/10/14 14:05 | 09/10/14 19:11 | 1 |
| Zinc | 3.5 | | 0.0040 | 0.0019 | mg/L | | 09/10/14 14:05 | 09/10/14 19:11 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | 0.000065 | J | 0.00020 | 0.000041 | mg/L | | 09/15/14 11:20 | 09/15/14 14:15 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|------|------|----------|---|----------|----------------|---------|
| Specific Conductance | 230 | | 10 | 10 | umhos/cm | | | 09/11/14 15:30 | 1 |
| Chloride | 3.4 | | 0.90 | 0.30 | mg/L | | | 09/10/14 13:24 | 1 |

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-45294-1

Client Sample ID: PS-TS-01-20140909-W

Lab Sample ID: 580-45294-2

Date Collected: 09/09/14 11:15

Matrix: Water

Date Received: 09/09/14 16:15

General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Sulfate | 7.8 | | 1.2 | 0.40 | mg/L | | | 09/10/14 13:24 | 1 |
| Nitrate Nitrite as N | 1.1 | | 0.010 | 0.0050 | mg/L | | | 09/10/14 12:12 | 1 |
| Alkalinity | 97 | | 5.0 | 5.0 | mg/L | | | 09/10/14 14:49 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 97 | | 5.0 | 5.0 | mg/L | | | 09/10/14 14:49 | 1 |
| Carbonate Alkalinity as CaCO3 | ND | | 5.0 | 5.0 | mg/L | | | 09/10/14 14:49 | 1 |
| Hydroxide Alkalinity as CaCO3 | ND | | 5.0 | 5.0 | mg/L | | | 09/10/14 14:49 | 1 |
| Total Suspended Solids | ND * | | 6.7 | 6.7 | mg/L | | | 09/15/14 12:32 | 1 |
| Chromium, hexavalent | ND | | 0.012 | 0.0060 | mg/L | | | 09/10/14 09:45 | 1 |
| pH | 7.35 | HF | 0.0100 | 0.0100 | SU | | | 09/11/14 11:49 | 1 |
| Total Organic Carbon | 13 | | 1.0 | 0.33 | mg/L | | | 09/18/14 14:40 | 1 |

Client Sample Results

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

TestAmerica Job ID: 580-45294-1

Client Sample ID: PS-OS-01-20140909-W

Lab Sample ID: 580-45294-3

Date Collected: 09/09/14 12:20

Matrix: Water

Date Received: 09/09/14 16:15

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Phenol | ND | | 2.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Bis(2-chloroethyl)ether | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 2-Chlorophenol | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 1,3-Dichlorobenzene | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 1,4-Dichlorobenzene | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Benzyl alcohol | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 1,2-Dichlorobenzene | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 2-Methylphenol | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 3 & 4 Methylphenol | ND | | 3.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| N-Nitrosodi-n-propylamine | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Hexachloroethane | ND | | 2.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Nitrobenzene | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Isophorone | 0.58 | J | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 2-Nitrophenol | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 2,4-Dimethylphenol | ND | * | 9.7 | 1.5 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Benzoic acid | 3.1 | J | 15 | 2.9 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Bis(2-chloroethoxy)methane | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 2,4-Dichlorophenol | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 1,2,4-Trichlorobenzene | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Naphthalene | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 4-Chloroaniline | ND | * | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Hexachlorobutadiene | ND | | 2.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 4-Chloro-3-methylphenol | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 2-Methylnaphthalene | ND | | 0.97 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 1-Methylnaphthalene | ND | | 0.29 | 0.15 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Hexachlorocyclopentadiene | ND | | 9.7 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 2,4,6-Trichlorophenol | ND | | 2.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 2,4,5-Trichlorophenol | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 2-Chloronaphthalene | ND | | 0.29 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 2-Nitroaniline | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Dimethyl phthalate | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Acenaphthylene | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 2,6-Dinitrotoluene | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 3-Nitroaniline | ND | * | 1.9 | 0.58 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Acenaphthene | ND | | 0.49 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 2,4-Dinitrophenol | ND | | 24 | 4.9 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 4-Nitrophenol | 7.6 | J | 15 | 4.9 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Dibenzofuran | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 2,4-Dinitrotoluene | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Diethyl phthalate | ND | ^ | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 4-Chlorophenyl phenyl ether | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Fluorene | ND | | 0.29 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 4-Nitroaniline | ND | * | 2.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 4,6-Dinitro-2-methylphenol | ND | | 19 | 4.9 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| N-Nitrosodiphenylamine | ND | * | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 4-Bromophenyl phenyl ether | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Hexachlorobenzene | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Pentachlorophenol | ND | | 3.4 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Phenanthrene | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-45294-1

Client Sample ID: PS-OS-01-20140909-W

Lab Sample ID: 580-45294-3

Date Collected: 09/09/14 12:20

Matrix: Water

Date Received: 09/09/14 16:15

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Anthracene | ND | | 0.19 | 0.049 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Carbazole | ND | | 1.9 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Di-n-butyl phthalate | ND | | 1.9 | 0.63 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Fluoranthene | ND | | 0.24 | 0.063 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Pyrene | ND | | 0.29 | 0.063 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Butyl benzyl phthalate | ND | | 2.9 | 0.97 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 3,3'-Dichlorobenzidine | ND | * | 9.7 | 0.49 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Benzo[a]anthracene | ND | | 0.29 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Chrysene | ND | | 0.19 | 0.063 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Bis(2-ethylhexyl) phthalate | ND | | 15 | 5.7 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Di-n-octyl phthalate | ND | | 1.9 | 0.88 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Benzo[b]fluoranthene | ND | | 0.39 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Benzo[k]fluoranthene | ND | | 0.29 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Benzo[a]pyrene | ND | | 0.19 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.29 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Dibenz(a,h)anthracene | ND | | 0.29 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Benzo[g,h,i]perylene | ND | | 0.29 | 0.097 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| N-Nitrosodimethylamine | ND | | 9.7 | 0.97 | ug/L | | 09/10/14 14:25 | 09/21/14 03:41 | 5 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorophenol | 84 | | 30 - 134 | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Phenol-d5 | 87 | | 52 - 120 | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 2,4,6-Tribromophenol | 102 | | 44 - 125 | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Nitrobenzene-d5 | 90 | | 59 - 120 | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| 2-Fluorobiphenyl | 80 | | 50 - 120 | 09/10/14 14:25 | 09/21/14 03:41 | 5 |
| Terphenyl-d14 | 108 | | 64 - 150 | 09/10/14 14:25 | 09/21/14 03:41 | 5 |

Method: 200.8 - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Arsenic | 0.0044 | | 0.0010 | 0.00075 | mg/L | | 09/10/14 14:05 | 09/10/14 19:04 | 1 |
| Antimony | 0.059 | | 0.00040 | 0.000080 | mg/L | | 09/10/14 14:05 | 09/10/14 19:04 | 1 |
| Beryllium | ND | | 0.00040 | 0.00010 | mg/L | | 09/10/14 14:05 | 09/10/14 19:04 | 1 |
| Cadmium | 0.0022 | | 0.00040 | 0.000028 | mg/L | | 09/10/14 14:05 | 09/10/14 19:04 | 1 |
| Chromium | 0.0020 | | 0.00040 | 0.00027 | mg/L | | 09/10/14 14:05 | 09/10/14 19:04 | 1 |
| Copper | 0.0072 | | 0.0010 | 0.00011 | mg/L | | 09/10/14 14:05 | 09/10/14 19:04 | 1 |
| Lead | 0.0011 | | 0.00040 | 0.000034 | mg/L | | 09/10/14 14:05 | 09/10/14 19:04 | 1 |
| Nickel | 0.0017 | J | 0.0030 | 0.00040 | mg/L | | 09/10/14 14:05 | 09/10/14 19:04 | 1 |
| Selenium | ND | | 0.0010 | 0.00071 | mg/L | | 09/10/14 14:05 | 09/10/14 19:04 | 1 |
| Silver | ND | | 0.00040 | 0.000030 | mg/L | | 09/10/14 14:05 | 09/10/14 19:04 | 1 |
| Thallium | ND | | 0.0010 | 0.00028 | mg/L | | 09/10/14 14:05 | 09/10/14 19:04 | 1 |
| Zinc | 0.16 | | 0.0040 | 0.0019 | mg/L | | 09/10/14 14:05 | 09/10/14 19:04 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | 0.000067 | J | 0.00020 | 0.000041 | mg/L | | 09/15/14 11:20 | 09/15/14 14:17 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|------|------|----------|---|----------|----------------|---------|
| Specific Conductance | 210 | | 10 | 10 | umhos/cm | | | 09/11/14 15:30 | 1 |
| Chloride | 3.1 | | 0.90 | 0.30 | mg/L | | | 09/10/14 13:39 | 1 |

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-45294-1

Client Sample ID: PS-OS-01-20140909-W

Lab Sample ID: 580-45294-3

Date Collected: 09/09/14 12:20

Matrix: Water

Date Received: 09/09/14 16:15

General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|--------|--------|------|---|----------|----------------|---------|
| Sulfate | 8.4 | | 1.2 | 0.40 | mg/L | | | 09/10/14 13:39 | 1 |
| Nitrate Nitrite as N | 0.57 | | 0.010 | 0.0050 | mg/L | | | 09/10/14 12:15 | 1 |
| Alkalinity | 87 | | 5.0 | 5.0 | mg/L | | | 09/10/14 14:49 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 87 | | 5.0 | 5.0 | mg/L | | | 09/10/14 14:49 | 1 |
| Carbonate Alkalinity as CaCO3 | ND | | 5.0 | 5.0 | mg/L | | | 09/10/14 14:49 | 1 |
| Hydroxide Alkalinity as CaCO3 | ND | | 5.0 | 5.0 | mg/L | | | 09/10/14 14:49 | 1 |
| Total Suspended Solids | 98 | * | 10 | 10 | mg/L | | | 09/15/14 12:32 | 1 |
| Total Suspended Solids | 97 | | 5.0 | 5.0 | mg/L | | | 09/16/14 16:21 | 1 |
| Chromium, hexavalent | ND | | 0.012 | 0.0060 | mg/L | | | 09/10/14 09:46 | 1 |
| pH | 7.70 | HF | 0.0100 | 0.0100 | SU | | | 09/11/14 11:56 | 1 |
| Total Organic Carbon | 5.2 | | 1.0 | 0.33 | mg/L | | | 09/18/14 14:40 | 1 |

QC Sample Results

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

TestAmerica Job ID: 580-45294-1

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

Lab Sample ID: MB 580-169357/1-A

Matrix: Water

Analysis Batch: 170329

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 169357

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|--------------|-------|-------|------|---|----------------|----------------|---------|
| Phenol | ND | | 0.60 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Bis(2-chloroethyl)ether | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 2-Chlorophenol | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Benzyl alcohol | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 2-Methylphenol | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 3 & 4 Methylphenol | ND | | 0.80 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Hexachloroethane | ND | | 0.60 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Nitrobenzene | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Isophorone | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 2-Nitrophenol | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 2,4-Dimethylphenol | ND | | 2.0 | 0.30 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Benzoic acid | ND | | 3.0 | 0.60 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 2,4-Dichlorophenol | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Naphthalene | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 4-Chloroaniline | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Hexachlorobutadiene | ND | | 0.60 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 4-Chloro-3-methylphenol | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 2-Methylnaphthalene | ND | | 0.20 | 0.020 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 1-Methylnaphthalene | ND | | 0.060 | 0.030 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Hexachlorocyclopentadiene | ND | | 2.0 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.60 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 2-Chloronaphthalene | ND | | 0.060 | 0.020 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 2-Nitroaniline | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Dimethyl phthalate | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Acenaphthylene | ND | | 0.080 | 0.020 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 2,6-Dinitrotoluene | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 3-Nitroaniline | ND | | 0.40 | 0.12 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Acenaphthene | ND | | 0.10 | 0.020 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 2,4-Dinitrophenol | ND | | 5.0 | 1.0 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 4-Nitrophenol | ND | | 3.0 | 1.0 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Dibenzofuran | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Diethyl phthalate | ND | ^ | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Fluorene | ND | | 0.060 | 0.020 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 4-Nitroaniline | ND | | 0.60 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 4.0 | 1.0 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| N-Nitrosodiphenylamine | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Hexachlorobenzene | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Pentachlorophenol | ND | | 0.70 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-45294-1

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

Lab Sample ID: MB 580-169357/1-A

Matrix: Water

Analysis Batch: 170329

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 169357

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Phenanthrene | ND | | 0.080 | 0.020 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Anthracene | ND | | 0.040 | 0.010 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Carbazole | ND | | 0.40 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Di-n-butyl phthalate | ND | | 0.40 | 0.13 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Fluoranthene | ND | | 0.050 | 0.013 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Pyrene | ND | | 0.060 | 0.013 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Butyl benzyl phthalate | ND | | 0.60 | 0.20 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 2.0 | 0.10 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Benzo[a]anthracene | ND | | 0.060 | 0.020 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Chrysene | ND | | 0.040 | 0.013 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 3.0 | 1.2 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Di-n-octyl phthalate | ND | | 0.40 | 0.18 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Benzo[b]fluoranthene | ND | | 0.080 | 0.020 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Benzo[k]fluoranthene | ND | | 0.060 | 0.020 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Benzo[a]pyrene | ND | | 0.040 | 0.020 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.060 | 0.020 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.060 | 0.020 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.060 | 0.020 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| N-Nitrosodimethylamine | ND | | 2.0 | 0.20 | ug/L | | 09/10/14 14:25 | 09/20/14 22:03 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 2-Fluorophenol | 72 | | 30 - 134 | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Phenol-d5 | 71 | | 52 - 120 | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 2,4,6-Tribromophenol | 72 | | 44 - 125 | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Nitrobenzene-d5 | 73 | | 59 - 120 | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| 2-Fluorobiphenyl | 68 | | 50 - 120 | 09/10/14 14:25 | 09/20/14 22:03 | 1 |
| Terphenyl-d14 | 93 | | 64 - 150 | 09/10/14 14:25 | 09/20/14 22:03 | 1 |

Lab Sample ID: LCS 580-169357/2-A

Matrix: Water

Analysis Batch: 170329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 169357

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|-------------|------------|---------------|------|---|------|--------------|
| | | | | | | | |
| Bis(2-chloroethyl)ether | 2.00 | 1.71 | | ug/L | | 85 | 55 - 125 |
| 2-Chlorophenol | 2.00 | 1.76 | | ug/L | | 88 | 57 - 125 |
| 1,3-Dichlorobenzene | 2.00 | 1.62 | | ug/L | | 81 | 40 - 125 |
| 1,4-Dichlorobenzene | 2.00 | 1.54 | | ug/L | | 77 | 40 - 125 |
| Benzyl alcohol | 2.00 | 1.73 | | ug/L | | 87 | 41 - 144 |
| 1,2-Dichlorobenzene | 2.00 | 1.58 | | ug/L | | 79 | 44 - 125 |
| 2-Methylphenol | 2.00 | 1.66 | | ug/L | | 83 | 60 - 130 |
| 2,2'-oxybis[1-chloropropane] | 2.00 | 1.74 | | ug/L | | 87 | 44 - 130 |
| 3 & 4 Methylphenol | 2.00 | 1.79 | | ug/L | | 89 | 60 - 130 |
| N-Nitrosodi-n-propylamine | 2.00 | 1.73 | | ug/L | | 87 | 60 - 120 |
| Hexachloroethane | 2.00 | 1.61 | | ug/L | | 81 | 30 - 125 |
| Nitrobenzene | 2.00 | 1.79 | | ug/L | | 89 | 62 - 125 |
| Isophorone | 2.00 | 1.86 | | ug/L | | 93 | 64 - 125 |
| 2-Nitrophenol | 2.00 | 1.82 | | ug/L | | 91 | 55 - 140 |

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-45294-1

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

Lab Sample ID: LCS 580-169357/2-A

Matrix: Water

Analysis Batch: 170329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 169357

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 2,4-Dimethylphenol | 2.00 | 0.582 | J * | ug/L | | 29 | 30 - 135 |
| Benzoic acid | 4.00 | 5.36 | | ug/L | | 134 | 20 - 144 |
| Bis(2-chloroethoxy)methane | 2.00 | 1.25 | | ug/L | | 63 | 59 - 125 |
| 2,4-Dichlorophenol | 2.00 | 1.86 | | ug/L | | 93 | 50 - 140 |
| 1,2,4-Trichlorobenzene | 2.00 | 1.63 | | ug/L | | 81 | 40 - 125 |
| Naphthalene | 2.00 | 1.61 | | ug/L | | 80 | 56 - 125 |
| 4-Chloroaniline | 2.00 | ND | * | ug/L | | 0.8 | 20 - 150 |
| Hexachlorobutadiene | 2.00 | 1.58 | | ug/L | | 79 | 25 - 125 |
| 4-Chloro-3-methylphenol | 2.00 | 1.69 | | ug/L | | 84 | 65 - 145 |
| 2-Methylnaphthalene | 2.00 | 1.75 | | ug/L | | 88 | 56 - 125 |
| 1-Methylnaphthalene | 2.00 | 1.68 | | ug/L | | 84 | 54 - 125 |
| Hexachlorocyclopentadiene | 2.00 | 1.01 | J | ug/L | | 50 | 20 - 125 |
| 2,4,6-Trichlorophenol | 2.00 | 1.99 | | ug/L | | 100 | 55 - 140 |
| 2,4,5-Trichlorophenol | 2.00 | 2.20 | | ug/L | | 110 | 66 - 130 |
| 2-Chloronaphthalene | 2.00 | 1.78 | | ug/L | | 89 | 55 - 125 |
| 2-Nitroaniline | 2.00 | 1.93 | | ug/L | | 96 | 52 - 140 |
| Dimethyl phthalate | 2.00 | 2.04 | | ug/L | | 102 | 65 - 155 |
| Acenaphthylene | 2.00 | 1.46 | | ug/L | | 73 | 62 - 125 |
| 2,6-Dinitrotoluene | 2.00 | 1.79 | | ug/L | | 90 | 67 - 134 |
| 3-Nitroaniline | 2.00 | 0.328 | J * | ug/L | | 16 | 22 - 124 |
| Acenaphthene | 2.00 | 1.73 | | ug/L | | 86 | 63 - 125 |
| 2,4-Dinitrophenol | 4.00 | 4.52 | J | ug/L | | 113 | 24 - 146 |
| 4-Nitrophenol | 4.00 | 3.74 | | ug/L | | 93 | 35 - 153 |
| Dibenzofuran | 2.00 | 1.86 | | ug/L | | 93 | 60 - 125 |
| 2,4-Dinitrotoluene | 2.00 | 1.95 | | ug/L | | 97 | 73 - 126 |
| Diethyl phthalate | 2.00 | 2.08 | | ug/L | | 104 | 60 - 150 |
| 4-Chlorophenyl phenyl ether | 2.00 | 1.86 | | ug/L | | 93 | 59 - 125 |
| Fluorene | 2.00 | 1.87 | | ug/L | | 94 | 69 - 125 |
| 4-Nitroaniline | 2.00 | 1.12 | | ug/L | | 56 | 49 - 125 |
| 4,6-Dinitro-2-methylphenol | 4.00 | 3.62 | J | ug/L | | 91 | 50 - 136 |
| N-Nitrosodiphenylamine | 2.00 | 0.628 | * | ug/L | | 31 | 40 - 135 |
| 4-Bromophenyl phenyl ether | 2.00 | 1.88 | | ug/L | | 94 | 62 - 132 |
| Hexachlorobenzene | 2.00 | 1.78 | | ug/L | | 89 | 61 - 125 |
| Pentachlorophenol | 4.00 | 3.53 | | ug/L | | 88 | 20 - 145 |
| Phenanthrene | 2.00 | 1.95 | | ug/L | | 98 | 70 - 125 |
| Anthracene | 2.00 | 1.49 | | ug/L | | 75 | 50 - 125 |
| Carbazole | 2.00 | 1.53 | | ug/L | | 76 | 75 - 142 |
| Di-n-butyl phthalate | 2.00 | 2.20 | | ug/L | | 110 | 55 - 167 |
| Fluoranthene | 2.00 | 1.98 | | ug/L | | 99 | 70 - 145 |
| Pyrene | 2.00 | 1.95 | | ug/L | | 98 | 70 - 133 |
| Butyl benzyl phthalate | 2.00 | 2.06 | | ug/L | | 103 | 60 - 167 |
| 3,3'-Dichlorobenzidine | 4.00 | ND | * | ug/L | | 0.5 | 20 - 175 |
| Benzo[a]anthracene | 2.00 | 1.85 | | ug/L | | 92 | 65 - 125 |
| Chrysene | 2.00 | 1.87 | | ug/L | | 94 | 70 - 125 |
| Bis(2-ethylhexyl) phthalate | 2.00 | 1.99 | J | ug/L | | 100 | 70 - 185 |
| Di-n-octyl phthalate | 2.00 | 2.24 | | ug/L | | 112 | 55 - 150 |
| Benzo[b]fluoranthene | 2.00 | 2.15 | | ug/L | | 107 | 70 - 129 |
| Benzo[k]fluoranthene | 2.00 | 2.06 | | ug/L | | 103 | 70 - 123 |

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-45294-1

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

Lab Sample ID: LCS 580-169357/2-A

Matrix: Water

Analysis Batch: 170329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 169357

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Benzo[a]pyrene | 2.00 | 1.25 | | ug/L | | 63 | 45 - 125 |
| Indeno[1,2,3-cd]pyrene | 2.00 | 2.00 | | ug/L | | 100 | 70 - 136 |
| Dibenz(a,h)anthracene | 2.00 | 2.19 | | ug/L | | 109 | 69 - 154 |
| Benzo[g,h,i]perylene | 2.00 | 1.98 | | ug/L | | 99 | 65 - 153 |
| N-Nitrosodimethylamine | 2.00 | 1.68 | J | ug/L | | 84 | 33 - 143 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|----------------------|---------------|---------------|----------|
| 2-Fluorophenol | 83 | | 30 - 134 |
| Phenol-d5 | 84 | | 52 - 120 |
| 2,4,6-Tribromophenol | 95 | | 44 - 125 |
| Nitrobenzene-d5 | 84 | | 59 - 120 |
| 2-Fluorobiphenyl | 85 | | 50 - 120 |
| Terphenyl-d14 | 106 | | 64 - 150 |

Lab Sample ID: LCSD 580-169357/3-A

Matrix: Water

Analysis Batch: 170329

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 169357

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Phenol | 2.00 | 1.82 | | ug/L | | 91 | 53 - 130 | 1 | 20 |
| Bis(2-chloroethyl)ether | 2.00 | 1.69 | | ug/L | | 85 | 55 - 125 | 0 | 20 |
| 2-Chlorophenol | 2.00 | 1.85 | | ug/L | | 92 | 57 - 125 | 5 | 20 |
| 1,3-Dichlorobenzene | 2.00 | 1.63 | | ug/L | | 82 | 40 - 125 | 1 | 20 |
| 1,4-Dichlorobenzene | 2.00 | 1.57 | | ug/L | | 78 | 40 - 125 | 2 | 20 |
| Benzyl alcohol | 2.00 | 1.98 | | ug/L | | 99 | 41 - 144 | 14 | 20 |
| 1,2-Dichlorobenzene | 2.00 | 1.68 | | ug/L | | 84 | 44 - 125 | 7 | 20 |
| 2-Methylphenol | 2.00 | 1.88 | | ug/L | | 94 | 60 - 130 | 13 | 20 |
| 2,2'-oxybis[1-chloropropane] | 2.00 | 1.70 | | ug/L | | 85 | 44 - 130 | 2 | 20 |
| 3 & 4 Methylphenol | 2.00 | 1.97 | | ug/L | | 99 | 60 - 130 | 11 | 20 |
| N-Nitrosodi-n-propylamine | 2.00 | 1.80 | | ug/L | | 90 | 60 - 120 | 5 | 20 |
| Hexachloroethane | 2.00 | 1.58 | | ug/L | | 79 | 30 - 125 | 1 | 20 |
| Nitrobenzene | 2.00 | 1.70 | | ug/L | | 85 | 62 - 125 | 5 | 20 |
| Isophorone | 2.00 | 1.87 | | ug/L | | 93 | 64 - 125 | 1 | 20 |
| 2-Nitrophenol | 2.00 | 1.70 | | ug/L | | 85 | 55 - 140 | 6 | 20 |
| 2,4-Dimethylphenol | 2.00 | 1.69 | J * | ug/L | | 85 | 30 - 135 | 98 | 20 |
| Benzoic acid | 4.00 | 5.15 | | ug/L | | 129 | 20 - 144 | 4 | 20 |
| Bis(2-chloroethoxy)methane | 2.00 | 1.33 | | ug/L | | 67 | 59 - 125 | 6 | 20 |
| 2,4-Dichlorophenol | 2.00 | 1.88 | | ug/L | | 94 | 50 - 140 | 1 | 20 |
| 1,2,4-Trichlorobenzene | 2.00 | 1.55 | | ug/L | | 77 | 40 - 125 | 5 | 20 |
| Naphthalene | 2.00 | 1.56 | | ug/L | | 78 | 56 - 125 | 3 | 20 |
| 4-Chloroaniline | 2.00 | 0.735 | * | ug/L | | 37 | 20 - 150 | 191 | 20 |
| Hexachlorobutadiene | 2.00 | 1.49 | | ug/L | | 74 | 25 - 125 | 6 | 20 |
| 4-Chloro-3-methylphenol | 2.00 | 1.74 | | ug/L | | 87 | 65 - 145 | 3 | 20 |
| 2-Methylnaphthalene | 2.00 | 1.68 | | ug/L | | 84 | 56 - 125 | 4 | 20 |
| 1-Methylnaphthalene | 2.00 | 1.66 | | ug/L | | 83 | 54 - 125 | 1 | 20 |
| Hexachlorocyclopentadiene | 2.00 | 0.957 | J | ug/L | | 48 | 20 - 125 | 5 | 20 |
| 2,4,6-Trichlorophenol | 2.00 | 1.93 | | ug/L | | 96 | 55 - 140 | 3 | 20 |
| 2,4,5-Trichlorophenol | 2.00 | 2.00 | | ug/L | | 100 | 66 - 130 | 9 | 20 |

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-45294-1

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

Lab Sample ID: LCSD 580-169357/3-A

Matrix: Water

Analysis Batch: 170329

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 169357

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. | | RPD | Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|----------|-----|-----|-------|
| | | | | | | | Limits | RPD | | |
| 2-Chloronaphthalene | 2.00 | 1.78 | | ug/L | | 89 | 55 - 125 | 0 | 20 | |
| 2-Nitroaniline | 2.00 | 1.74 | | ug/L | | 87 | 52 - 140 | 11 | 20 | |
| Dimethyl phthalate | 2.00 | 2.02 | | ug/L | | 101 | 65 - 155 | 1 | 20 | |
| Acenaphthylene | 2.00 | 1.51 | | ug/L | | 75 | 62 - 125 | 3 | 20 | |
| 2,6-Dinitrotoluene | 2.00 | 1.78 | | ug/L | | 89 | 67 - 134 | 0 | 20 | |
| 3-Nitroaniline | 2.00 | 0.946 | * | ug/L | | 47 | 22 - 124 | 97 | 20 | |
| Acenaphthene | 2.00 | 1.71 | | ug/L | | 86 | 63 - 125 | 1 | 20 | |
| 2,4-Dinitrophenol | 4.00 | 3.96 | J | ug/L | | 99 | 24 - 146 | 13 | 20 | |
| 4-Nitrophenol | 4.00 | 3.62 | | ug/L | | 90 | 35 - 153 | 3 | 20 | |
| Dibenzofuran | 2.00 | 1.78 | | ug/L | | 89 | 60 - 125 | 4 | 20 | |
| 2,4-Dinitrotoluene | 2.00 | 1.83 | | ug/L | | 92 | 73 - 126 | 6 | 20 | |
| Diethyl phthalate | 2.00 | 2.00 | ^ | ug/L | | 100 | 60 - 150 | 4 | 20 | |
| 4-Chlorophenyl phenyl ether | 2.00 | 1.82 | | ug/L | | 91 | 59 - 125 | 2 | 20 | |
| Fluorene | 2.00 | 1.81 | | ug/L | | 90 | 69 - 125 | 4 | 20 | |
| 4-Nitroaniline | 2.00 | 1.55 | * | ug/L | | 77 | 49 - 125 | 32 | 20 | |
| 4,6-Dinitro-2-methylphenol | 4.00 | 3.49 | J | ug/L | | 87 | 50 - 136 | 4 | 20 | |
| N-Nitrosodiphenylamine | 2.00 | 1.41 | * | ug/L | | 70 | 40 - 135 | 77 | 20 | |
| 4-Bromophenyl phenyl ether | 2.00 | 1.78 | | ug/L | | 89 | 62 - 132 | 5 | 20 | |
| Hexachlorobenzene | 2.00 | 1.70 | | ug/L | | 85 | 61 - 125 | 4 | 20 | |
| Pentachlorophenol | 4.00 | 3.10 | | ug/L | | 77 | 20 - 145 | 13 | 20 | |
| Phenanthrene | 2.00 | 1.89 | | ug/L | | 95 | 70 - 125 | 3 | 20 | |
| Anthracene | 2.00 | 1.63 | | ug/L | | 82 | 50 - 125 | 9 | 20 | |
| Carbazole | 2.00 | 1.69 | | ug/L | | 85 | 75 - 142 | 10 | 20 | |
| Di-n-butyl phthalate | 2.00 | 2.11 | | ug/L | | 105 | 55 - 167 | 4 | 20 | |
| Fluoranthene | 2.00 | 1.91 | | ug/L | | 96 | 70 - 145 | 4 | 20 | |
| Pyrene | 2.00 | 1.87 | | ug/L | | 94 | 70 - 133 | 4 | 20 | |
| Butyl benzyl phthalate | 2.00 | 2.11 | | ug/L | | 106 | 60 - 167 | 3 | 20 | |
| 3,3'-Dichlorobenzidine | 4.00 | ND | * | ug/L | | 0.6 | 20 - 175 | 5 | 20 | |
| Benzo[a]anthracene | 2.00 | 1.88 | | ug/L | | 94 | 65 - 125 | 2 | 20 | |
| Chrysene | 2.00 | 1.87 | | ug/L | | 94 | 70 - 125 | 0 | 20 | |
| Bis(2-ethylhexyl) phthalate | 2.00 | 2.05 | J | ug/L | | 102 | 70 - 185 | 3 | 20 | |
| Di-n-octyl phthalate | 2.00 | 2.10 | | ug/L | | 105 | 55 - 150 | 6 | 20 | |
| Benzo[b]fluoranthene | 2.00 | 2.09 | | ug/L | | 104 | 70 - 129 | 3 | 20 | |
| Benzo[k]fluoranthene | 2.00 | 1.89 | | ug/L | | 94 | 70 - 123 | 9 | 20 | |
| Benzo[a]pyrene | 2.00 | 1.49 | | ug/L | | 75 | 45 - 125 | 17 | 20 | |
| Indeno[1,2,3-cd]pyrene | 2.00 | 1.82 | | ug/L | | 91 | 70 - 136 | 10 | 20 | |
| Dibenz(a,h)anthracene | 2.00 | 1.96 | | ug/L | | 98 | 69 - 154 | 11 | 20 | |
| Benzo[g,h,i]perylene | 2.00 | 1.91 | | ug/L | | 96 | 65 - 153 | 4 | 20 | |
| N-Nitrosodimethylamine | 2.00 | 1.57 | J | ug/L | | 78 | 33 - 143 | 7 | 20 | |

| Surrogate | LCSD LCSD | | Limits |
|----------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 2-Fluorophenol | 82 | | 30 - 134 |
| Phenol-d5 | 85 | | 52 - 120 |
| 2,4,6-Tribromophenol | 91 | | 44 - 125 |
| Nitrobenzene-d5 | 89 | | 59 - 120 |
| 2-Fluorobiphenyl | 80 | | 50 - 120 |
| Terphenyl-d14 | 101 | | 64 - 150 |

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-45294-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-169354/8-A
Matrix: Water
Analysis Batch: 169408

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 169354

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|---------|----------|------|---|----------------|----------------|---------|
| Arsenic | ND | | 0.0010 | 0.00075 | mg/L | | 09/10/14 14:05 | 09/10/14 19:01 | 1 |
| Antimony | ND | | 0.00040 | 0.000080 | mg/L | | 09/10/14 14:05 | 09/10/14 19:01 | 1 |
| Beryllium | ND | | 0.00040 | 0.00010 | mg/L | | 09/10/14 14:05 | 09/10/14 19:01 | 1 |
| Cadmium | ND | | 0.00040 | 0.000028 | mg/L | | 09/10/14 14:05 | 09/10/14 19:01 | 1 |
| Chromium | ND | | 0.00040 | 0.00027 | mg/L | | 09/10/14 14:05 | 09/10/14 19:01 | 1 |
| Copper | ND | | 0.0010 | 0.00011 | mg/L | | 09/10/14 14:05 | 09/10/14 19:01 | 1 |
| Lead | ND | | 0.00040 | 0.000034 | mg/L | | 09/10/14 14:05 | 09/10/14 19:01 | 1 |
| Nickel | ND | | 0.0030 | 0.00040 | mg/L | | 09/10/14 14:05 | 09/10/14 19:01 | 1 |
| Selenium | ND | | 0.0010 | 0.00071 | mg/L | | 09/10/14 14:05 | 09/10/14 19:01 | 1 |
| Silver | ND | | 0.00040 | 0.000030 | mg/L | | 09/10/14 14:05 | 09/10/14 19:01 | 1 |
| Thallium | ND | | 0.0010 | 0.00028 | mg/L | | 09/10/14 14:05 | 09/10/14 19:01 | 1 |
| Zinc | ND | | 0.0040 | 0.0019 | mg/L | | 09/10/14 14:05 | 09/10/14 19:01 | 1 |

Lab Sample ID: LCS 580-169354/9-A
Matrix: Water
Analysis Batch: 169408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 169354

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Arsenic | 0.100 | 0.113 | | mg/L | | 113 | 80 - 120 |
| Antimony | 0.100 | 0.117 | | mg/L | | 117 | 80 - 120 |
| Beryllium | 0.100 | 0.113 | | mg/L | | 113 | 80 - 120 |
| Cadmium | 0.100 | 0.116 | | mg/L | | 116 | 80 - 120 |
| Chromium | 0.100 | 0.105 | | mg/L | | 105 | 80 - 120 |
| Copper | 0.100 | 0.104 | | mg/L | | 104 | 80 - 120 |
| Lead | 0.100 | 0.111 | | mg/L | | 111 | 80 - 120 |
| Nickel | 0.100 | 0.104 | | mg/L | | 104 | 80 - 120 |
| Selenium | 0.100 | 0.120 | | mg/L | | 120 | 80 - 120 |
| Silver | 0.100 | 0.109 | | mg/L | | 109 | 80 - 120 |
| Thallium | 0.100 | 0.115 | | mg/L | | 115 | 80 - 120 |
| Zinc | 0.100 | 0.110 | | mg/L | | 110 | 80 - 120 |

Lab Sample ID: LCSD 580-169354/10-A
Matrix: Water
Analysis Batch: 169408

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 169354

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Arsenic | 0.100 | 0.114 | | mg/L | | 114 | 80 - 120 | 1 | 20 |
| Antimony | 0.100 | 0.118 | | mg/L | | 118 | 80 - 120 | 1 | 20 |
| Beryllium | 0.100 | 0.114 | | mg/L | | 114 | 80 - 120 | 1 | 20 |
| Cadmium | 0.100 | 0.117 | | mg/L | | 117 | 80 - 120 | 1 | 20 |
| Chromium | 0.100 | 0.106 | | mg/L | | 106 | 80 - 120 | 1 | 20 |
| Copper | 0.100 | 0.105 | | mg/L | | 105 | 80 - 120 | 0 | 20 |
| Lead | 0.100 | 0.111 | | mg/L | | 111 | 80 - 120 | 0 | 20 |
| Nickel | 0.100 | 0.106 | | mg/L | | 106 | 80 - 120 | 2 | 20 |
| Selenium | 0.100 | 0.120 | | mg/L | | 120 | 80 - 120 | 0 | 20 |
| Silver | 0.100 | 0.111 | | mg/L | | 111 | 80 - 120 | 2 | 20 |
| Thallium | 0.100 | 0.114 | | mg/L | | 114 | 80 - 120 | 1 | 20 |
| Zinc | 0.100 | 0.111 | | mg/L | | 111 | 80 - 120 | 1 | 20 |

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-45294-1

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

Lab Sample ID: 580-45294-2 MS

Matrix: Water

Analysis Batch: 169408

Client Sample ID: PS-TS-01-20140909-W

Prep Type: Total/NA

Prep Batch: 169354

| Analyte | Sample | Sample Qualifier | Spike Added | MS | MS Qualifier | Unit | D | %Rec | %Rec. | |
|-----------|---------|------------------|-------------|--------|--------------|------|---|------|----------|--------|
| | Result | | | Result | | | | | Limits | Limits |
| Arsenic | ND | | 0.100 | 0.113 | | mg/L | | 113 | 80 - 120 | |
| Antimony | 0.00095 | | 0.100 | 0.117 | | mg/L | | 116 | 80 - 120 | |
| Beryllium | ND | | 0.100 | 0.112 | | mg/L | | 112 | 80 - 120 | |
| Cadmium | 0.00026 | J | 0.100 | 0.114 | | mg/L | | 114 | 80 - 120 | |
| Chromium | 0.0020 | | 0.100 | 0.107 | | mg/L | | 105 | 80 - 120 | |
| Copper | 0.015 | | 0.100 | 0.120 | | mg/L | | 105 | 80 - 120 | |
| Lead | 0.0010 | | 0.100 | 0.112 | | mg/L | | 111 | 80 - 120 | |
| Nickel | 0.0030 | | 0.100 | 0.108 | | mg/L | | 105 | 80 - 120 | |
| Selenium | 0.00080 | J | 0.100 | 0.118 | | mg/L | | 117 | 80 - 120 | |
| Silver | ND | | 0.100 | 0.108 | | mg/L | | 108 | 80 - 120 | |
| Thallium | ND | | 0.100 | 0.114 | | mg/L | | 114 | 80 - 120 | |
| Zinc | 3.5 | | 0.100 | 3.67 | 4 | mg/L | | 152 | 80 - 120 | |

Lab Sample ID: 580-45294-2 MSD

Matrix: Water

Analysis Batch: 169408

Client Sample ID: PS-TS-01-20140909-W

Prep Type: Total/NA

Prep Batch: 169354

| Analyte | Sample | Sample Qualifier | Spike Added | MSD | MSD Qualifier | Unit | D | %Rec | %Rec. | | RPD | |
|-----------|---------|------------------|-------------|--------|---------------|------|---|------|----------|-----|-------|-------|
| | Result | | | Result | | | | | Limits | RPD | Limit | Limit |
| Arsenic | ND | | 0.100 | 0.112 | | mg/L | | 112 | 80 - 120 | 0 | 20 | |
| Antimony | 0.00095 | | 0.100 | 0.117 | | mg/L | | 116 | 80 - 120 | 0 | 20 | |
| Beryllium | ND | | 0.100 | 0.111 | | mg/L | | 111 | 80 - 120 | 1 | 20 | |
| Cadmium | 0.00026 | J | 0.100 | 0.114 | | mg/L | | 113 | 80 - 120 | 1 | 20 | |
| Chromium | 0.0020 | | 0.100 | 0.107 | | mg/L | | 105 | 80 - 120 | 0 | 20 | |
| Copper | 0.015 | | 0.100 | 0.120 | | mg/L | | 105 | 80 - 120 | 0 | 20 | |
| Lead | 0.0010 | | 0.100 | 0.112 | | mg/L | | 111 | 80 - 120 | 0 | 20 | |
| Nickel | 0.0030 | | 0.100 | 0.108 | | mg/L | | 105 | 80 - 120 | 0 | 20 | |
| Selenium | 0.00080 | J | 0.100 | 0.118 | | mg/L | | 117 | 80 - 120 | 0 | 20 | |
| Silver | ND | | 0.100 | 0.109 | | mg/L | | 109 | 80 - 120 | 0 | 20 | |
| Thallium | ND | | 0.100 | 0.114 | | mg/L | | 114 | 80 - 120 | 1 | 20 | |
| Zinc | 3.5 | | 0.100 | 3.74 | 4 | mg/L | | 222 | 80 - 120 | 2 | 20 | |

Lab Sample ID: 580-45294-2 DU

Matrix: Water

Analysis Batch: 169408

Client Sample ID: PS-TS-01-20140909-W

Prep Type: Total/NA

Prep Batch: 169354

| Analyte | Sample | Sample Qualifier | DU | DU | Unit | D | RPD | RPD | |
|-----------|---------|------------------|----------|--------|------|---|------|-------|-------|
| | Result | | | Result | | | | Limit | Limit |
| Arsenic | ND | | ND | ND | mg/L | | NC | 20 | |
| Antimony | 0.00095 | | 0.000876 | | mg/L | | 8 | 20 | |
| Beryllium | ND | | ND | | mg/L | | NC | 20 | |
| Cadmium | 0.00026 | J | 0.000275 | J | mg/L | | 4 | 20 | |
| Chromium | 0.0020 | | 0.00193 | | mg/L | | 1 | 20 | |
| Copper | 0.015 | | 0.0151 | | mg/L | | 2 | 20 | |
| Lead | 0.0010 | | 0.00105 | | mg/L | | 0.6 | 20 | |
| Nickel | 0.0030 | | 0.00291 | J | mg/L | | 4 | 20 | |
| Selenium | 0.00080 | J | 0.000712 | J | mg/L | | 12 | 20 | |
| Silver | ND | | ND | | mg/L | | NC | 20 | |
| Thallium | ND | | ND | | mg/L | | NC | 20 | |
| Zinc | 3.5 | | 3.52 | | mg/L | | 0.09 | 20 | |

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-45294-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 580-169782/23-A
Matrix: Water
Analysis Batch: 169844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 169782

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.00020 | 0.000041 | mg/L | | 09/15/14 11:20 | 09/15/14 13:32 | 1 |

Lab Sample ID: LCS 580-169782/24-A
Matrix: Water
Analysis Batch: 169844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 169782

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Mercury | 0.00200 | 0.00197 | | mg/L | | 98 | 80 - 120 |

Lab Sample ID: LCSD 580-169782/25-A
Matrix: Water
Analysis Batch: 169844

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 169782

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|---------|-------------|-------------|----------------|------|---|------|--------------|-----|-------|
| Mercury | 0.00200 | 0.00186 | | mg/L | | 93 | 80 - 120 | 5 | 20 |

Lab Sample ID: LCSSRM 580-169782/26-A
Matrix: Water
Analysis Batch: 169844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 169782

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|---------------|------------------|------|---|------|--------------|
| Mercury | 0.00200 | 0.00206 | | mg/L | | 103 | 75 - 125 |

Method: 120.1 - Conductivity, Specific Conductance

Lab Sample ID: MB 580-169481/1
Matrix: Water
Analysis Batch: 169481

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 | | | 09/11/14 15:30 | 1 |

Lab Sample ID: LCS 580-169481/2
Matrix: Water
Analysis Batch: 169481

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: 580-45294-3 DU
Matrix: Water
Analysis Batch: 169481

Client Sample ID: PS-OS-01-20140909-W
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|----------------------|---------------|------------------|-----------|--------------|----------|---|-----|-------|
| Specific Conductance | 210 | | 210 | | umhos/cm | | 0.5 | 20 |

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-45294-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-169436/3

Matrix: Water

Analysis Batch: 169436

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 | | | 09/10/14 11:00 | 1 |
| Sulfate | ND | | 1.2 | 0.40 | mg/L | | | 09/10/14 11:00 | 1 |

Lab Sample ID: LCS 580-169436/4

Matrix: Water

Analysis Batch: 169436

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 | 9.16 | | mg/L | | 102 | 90 - 110 |
| Sulfate | 12.0 | 12.2 | | mg/L | | 101 | 90 - 110 |

Lab Sample ID: LCSD 580-169436/5

Matrix: Water

Analysis Batch: 169436

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 | 9.16 | | mg/L | | 102 | 90 - 110 | 0 | 15 |
| Sulfate | 12.0 | 12.2 | | mg/L | | 101 | 90 - 110 | 0 | 15 |

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-169346/14

Matrix: Water

Analysis Batch: 169346

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Nitrate Nitrite as N | ND | | 0.010 | 0.0050 | mg/L | | | 09/10/14 11:59 | 1 |

Lab Sample ID: LCS 580-169346/15

Matrix: Water

Analysis Batch: 169346

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|------|---|------|--------------|
| Nitrate Nitrite as N | 1.00 | 0.997 | | mg/L | | 100 | 90 - 110 |

Lab Sample ID: LCSD 580-169346/16

Matrix: Water

Analysis Batch: 169346

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 Nitrite as N | 1.00 | 0.991 | | mg/L | | 99 | 90 - 110 | 1 | 20 |

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-45294-1

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-169360/2
Matrix: Water
Analysis Batch: 169360

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------|-------------|------------|---------------|------|---|------|--------------|
| Alkalinity | 100 | 105 | | mg/L | | 105 | 85 - 115 |

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

Lab Sample ID: MB 580-169789/1
Matrix: Water
Analysis Batch: 169789

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Total Suspended Solids | ND | | 2.0 | 2.0 | mg/L | | | 09/15/14 12:32 | 1 |

Lab Sample ID: LCS 580-169789/2
Matrix: Water
Analysis Batch: 169789

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Suspended Solids | 30.0 | 38.0 | * | mg/L | | 127 | 70.6 - 120 |

Lab Sample ID: 580-45294-2 DU
Matrix: Water
Analysis Batch: 169789

Client Sample ID: PS-TS-01-20140909-W
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Suspended Solids | ND | * | ND | * | mg/L | | NC | 20 |

Lab Sample ID: MB 580-169944/1
Matrix: Water
Analysis Batch: 169944

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Total Suspended Solids | ND | | 2.0 | 2.0 | mg/L | | | 09/16/14 16:21 | 1 |

Lab Sample ID: LCS 580-169944/2
Matrix: Water
Analysis Batch: 169944

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Suspended Solids | 30.0 | 30.8 | | mg/L | | 103 | 70.6 - 120 |

Lab Sample ID: 580-45294-3 DU
Matrix: Water
Analysis Batch: 169944

Client Sample ID: PS-OS-01-20140909-W
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Suspended Solids | 97 | | 109 | | mg/L | | 12 | 20 |

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-45294-1

Method: SM 3500 CR D - Chromium, Hexavalent

Lab Sample ID: MB 580-169323/1
Matrix: Water
Analysis Batch: 169323

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Chromium, hexavalent | ND | | 0.012 | 0.0060 | mg/L | | | 09/10/14 09:41 | 1 |

Lab Sample ID: LCS 580-169323/2
Matrix: Water
Analysis Batch: 169323

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|------|---|------|--------------|
| Chromium, hexavalent | 0.200 | 0.190 | | mg/L | | 95 | 90 - 110 |

Lab Sample ID: 580-45294-1 MS
Matrix: Water
Analysis Batch: 169323

Client Sample ID: QC-EB-02-20140909-W
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chromium, hexavalent | ND | | 0.200 | 0.181 | | mg/L | | 91 | 85 - 115 |

Lab Sample ID: 580-45294-1 DU
Matrix: Water
Analysis Batch: 169323

Client Sample ID: QC-EB-02-20140909-W
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Chromium, hexavalent | ND | | ND | | mg/L | | NC | 25 |

Method: SM 4500 H+ B - pH

Lab Sample ID: 580-45294-2 DU
Matrix: Water
Analysis Batch: 169402

Client Sample ID: PS-TS-01-20140909-W
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| pH | 7.35 | HF | 7.610 | F3 | SU | | 41 | 1 |

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

Lab Sample ID: MB 580-170221/1
Matrix: Water
Analysis Batch: 170221

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 | | | 09/18/14 14:40 | 1 |

Lab Sample ID: LCS 580-170221/2
Matrix: Water
Analysis Batch: 170221

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 | 15.7 | | mg/L | | 105 | 85 - 115 |

TestAmerica Seattle

Lab Chronicle

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

TestAmerica Job ID: 580-45294-1

Client Sample ID: QC-EB-02-20140909-W

Lab Sample ID: 580-45294-1

Date Collected: 09/09/14 10:45

Matrix: Water

Date Received: 09/09/14 16:15

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | SM 3500 CR D | | 1 | 169323 | 09/10/14 09:42 | RSB | TAL SEA |

Client Sample ID: PS-TS-01-20140909-W

Lab Sample ID: 580-45294-2

Date Collected: 09/09/14 11:15

Matrix: Water

Date Received: 09/09/14 16:15

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3520C | | | 169357 | 09/10/14 14:25 | CLH | TAL SEA |
| Total/NA | Analysis | 8270D | | 1 | 170329 | 09/21/14 03:13 | ERB | TAL SEA |
| Total/NA | Prep | 200.8 | | | 169354 | 09/10/14 14:05 | KJV | TAL SEA |
| Total/NA | Analysis | 200.8 | | 1 | 169408 | 09/10/14 19:11 | FCW | TAL SEA |
| Total/NA | Prep | 7470A | | | 169782 | 09/15/14 11:20 | PAB | TAL SEA |
| Total/NA | Analysis | 7470A | | 1 | 169844 | 09/15/14 14:15 | FCW | TAL SEA |
| Total/NA | Analysis | 120.1 | | 1 | 169481 | 09/11/14 15:30 | JLS | TAL SEA |
| Total/NA | Analysis | 300.0 | | 1 | 169436 | 09/10/14 13:24 | RSB | TAL SEA |
| Total/NA | Analysis | 353.2 | | 1 | 169346 | 09/10/14 12:12 | TAA | TAL SEA |
| Total/NA | Analysis | SM 2320B | | 1 | 169360 | 09/10/14 14:49 | TAA | TAL SEA |
| Total/NA | Analysis | SM 2540D | | 1 | 169789 | 09/15/14 12:32 | JLS | TAL SEA |
| Total/NA | Analysis | SM 3500 CR D | | 1 | 169323 | 09/10/14 09:45 | RSB | TAL SEA |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 169402 | 09/11/14 11:49 | TAA | TAL SEA |
| Total/NA | Analysis | SM 5310B | | 1 | 170221 | 09/18/14 14:40 | RSB | TAL SEA |

Client Sample ID: PS-OS-01-20140909-W

Lab Sample ID: 580-45294-3

Date Collected: 09/09/14 12:20

Matrix: Water

Date Received: 09/09/14 16:15

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3520C | | | 169357 | 09/10/14 14:25 | CLH | TAL SEA |
| Total/NA | Analysis | 8270D | | 5 | 170329 | 09/21/14 03:41 | ERB | TAL SEA |
| Total/NA | Prep | 200.8 | | | 169354 | 09/10/14 14:05 | KJV | TAL SEA |
| Total/NA | Analysis | 200.8 | | 1 | 169408 | 09/10/14 19:04 | FCW | TAL SEA |
| Total/NA | Prep | 7470A | | | 169782 | 09/15/14 11:20 | PAB | TAL SEA |
| Total/NA | Analysis | 7470A | | 1 | 169844 | 09/15/14 14:17 | FCW | TAL SEA |
| Total/NA | Analysis | 120.1 | | 1 | 169481 | 09/11/14 15:30 | JLS | TAL SEA |
| Total/NA | Analysis | 300.0 | | 1 | 169436 | 09/10/14 13:39 | RSB | TAL SEA |
| Total/NA | Analysis | 353.2 | | 1 | 169346 | 09/10/14 12:15 | TAA | TAL SEA |
| Total/NA | Analysis | SM 2320B | | 1 | 169360 | 09/10/14 14:49 | TAA | TAL SEA |
| Total/NA | Analysis | SM 2540D | | 1 | 169789 | 09/15/14 12:32 | JLS | TAL SEA |
| Total/NA | Analysis | SM 2540D | | 1 | 169944 | 09/16/14 16:21 | JLS | TAL SEA |
| Total/NA | Analysis | SM 3500 CR D | | 1 | 169323 | 09/10/14 09:46 | RSB | TAL SEA |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 169402 | 09/11/14 11:56 | TAA | TAL SEA |

TestAmerica Seattle

Lab Chronicle

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

TestAmerica Job ID: 580-45294-1

Client Sample ID: PS-OS-01-20140909-W

Lab Sample ID: 580-45294-3

Date Collected: 09/09/14 12:20

Matrix: Water

Date Received: 09/09/14 16:15

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | SM 5310B | | 1 | 170221 | 09/18/14 14:40 | RSB | TAL SEA |

Laboratory References:

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

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Certification Summary

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

TestAmerica Job ID: 580-45294-1

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-113 | 07-25-15 |
| 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 | 11-06-14 |
| 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/WA

TestAmerica Job ID: 580-45294-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|---------------------|--------|----------------|----------------|
| 580-45294-1 | QC-EB-02-20140909-W | Water | 09/09/14 10:45 | 09/09/14 16:15 |
| 580-45294-2 | PS-TS-01-20140909-W | Water | 09/09/14 11:15 | 09/09/14 16:15 |
| 580-45294-3 | PS-OS-01-20140909-W | Water | 09/09/14 12:20 | 09/09/14 16:15 |

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Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 580-45294-1

Login Number: 45294

List Source: TestAmerica Seattle

List Number: 1

Creator: McDaniel, Ronald T

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is \leq 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? | True | |
| 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 $<6\text{mm}$ (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



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: 580-45294-2

Client Project/Site: NPDES Sampling Support/WA

For:

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

Attn: Christine Nancarrow



Authorized for release by:
10/22/2014 4:33:43 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

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

TestAmerica Job ID: 580-45294-2

Job ID: 580-45294-2

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-45294-2

Comments

No additional comments.

Receipt

The samples were received on 9/9/2014 4:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.8° C.

Metals

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

General Chemistry

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



Definitions/Glossary

Client: Leidos, Inc.

TestAmerica Job ID: 580-45294-2

Project/Site: NPDES Sampling Support/WA

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | 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) |
| 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 Sample Results

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

TestAmerica Job ID: 580-45294-2

Client Sample ID: PS-TS-01-20140909-W

Lab Sample ID: 580-45294-2

Date Collected: 09/09/14 11:15

Matrix: Water

Date Received: 09/09/14 16:15

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 |

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QC Sample Results

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

TestAmerica Job ID: 580-45294-2

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

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 |



Lab Chronicle

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

TestAmerica Job ID: 580-45294-2

Client Sample ID: PS-TS-01-20140909-W

Lab Sample ID: 580-45294-2

Date Collected: 09/09/14 11:15

Matrix: Water

Date Received: 09/09/14 16:15

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved | Analysis | SM 5310B | | 1 | 173201 | 10/21/14 09:10 | JLS | TAL SEA |

Laboratory References:

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

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Certification Summary

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

TestAmerica Job ID: 580-45294-2

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 |
| 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/WA

TestAmerica Job ID: 580-45294-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|---------------------|--------|----------------|----------------|
| 580-45294-2 | PS-TS-01-20140909-W | Water | 09/09/14 11:15 | 09/09/14 16:15 |

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RUSH
 Short Hold

**Chain of
Custody Record**

Chain of Custody Number
24944

10/22/2014

Client
Leidos

Client Contact

Christine Naccarow

Date

9/9/14

Page **1** of **2**

Address
18912 N Creek Parkway Ste 101

Telephone Number (Area Code)/Fax Number
206.300.2144

Lab Number

45294

City
Bozeman

State
WA

Zip Code
98011

Analysis (Attach list if more space is needed)

Project Name and Location (State)
NEDES Sampling Support / Wa

Sampler
Cory Wilson

Billing Contact

EPA 3700-G-D
EPA 8270D
200.8/7470A
SM4560H
120.1
SM2320
200.0/353.2
SM5710B
SM2540D

Special Instructions/
Conditions of Receipt

Sample I.D. and Location Description
(Containers for each sample may be combined on one line)

Date

Time

Air
Aqueous
Sed.
Soil

Unpres.
H2SO4
HNO3
HCl
NaOH
ZnAc/
NaOH

Containers & Preservatives

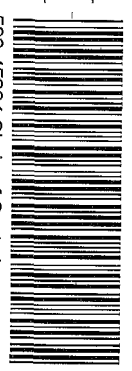
Matrix

QC-EB-02-20140909-W
PS-TS-01-20140909-W
PS-05-01-20140909-W

9/9/14
9/9/14
9/9/14

1045
1115
1220

Please obtain written
Confirmation from
Leidos PM regarding
disposal of samples.



580-45294 Chain of Custody

Cooler
 Yes No Cooler Temp: _____

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B

Sample Disposal
 Return to Client Disposal By Lab

Months _____ (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)
 24 Hours 48 Hours 5 Days 10 Days 15 Days Other _____

QC Requirements (Specify)

1. Relinquished By Sign/Print
[Signature]

Date
9/9/14

Time
1500

1. Received By Sign/Print
[Signature]

Date
9/9/14

Time
1500

2. Relinquished By Sign/Print
Cory Wilson

Date

Time

2. Received By Sign/Print

Date

Time

3. Relinquished By Sign/Print

3. Received By Sign/Print

Date

Time

Comments

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 580-45294-2

Login Number: 45294

List Source: TestAmerica Seattle

List Number: 1

Creator: McDaniel, Ronald T

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is \leq 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? | True | |
| 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 $<6\text{mm}$ (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

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: 580-45295-1

Client Project/Site: NPDES Supply Support/WA
Revision: 2

For:

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

Attn: Christine Nancarrow



Authorized for release by:
12/22/2014 5:37:02 PM

Kristine Allen, Manager of Project Management
(253)248-4970

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

Job ID: 580-45295-1

Laboratory: TestAmerica Seattle

Narrative

Report was revised 12-22-14 to include results for 2,2'-oxybis(1-chloropropane) and additional VOC results.

Receipt

The sample was received on 9/9/2014 4:15 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 14.5° C.

GC/MS VOA

Method(s) 8260C: The method blank for batch 170500 contained analytes 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.

Method(s) 5035: Less than required amount of soil is present in the 10mL of methanol vial for the following sample:
PS-TS-01-20140909-S (580-45295-1)

Method(s) 8260B: The target analytes 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, m-Xylene & p-Xylene, N-Propylbenzene, and o-Xylene were flagged (E) due to recoveries outside the calibration range for direct sparge soils. The samples were re-analyzed using the MeOH vials and reported.

Method(s) 8260B: The Internal standard 1,4-Dichlorobenzene-d5 (IS group 51) responses were outside of lower acceptance limits for the following sample(s): PS-TS-01-20140909-S (580-45295-1). The sample(s) was originally analyze in analytical batch 169727 with similar low recoveries therefore the failure is attributed to a matrix interference.

Method(s) 8260B: The surrogate(s) Toluene-d8 and 4-Bromofluorobenzene recovery for the following sample(s) was outside control limits: PS-TS-01-20140909-S (580-45295-1). Evidence of matrix interference is present from high levels of target and non target analyte: see chromatogram; therefore, re-extraction and/or re-analysis was not performed.

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) 8270C, 8270D: The method blank for batch 169198 contained analytes above the method detection limit. The concentrations of these common laboratory contaminants were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270C, 8270D: In analysis batch 170329, the continuing calibration verification (CCV) associated with the batch QC samples for preparation batch 169198 recovered above the upper control limit for Diethyl phthalate. The method blank (MB) associated with this CCV was non-detect for the affected analyte and the laboratory control sample and laboratory control sample duplicate (LCS/LCSD) were not adversely affected by the high system bias; therefore, the data have been qualified and reported. The following samples are impacted: (CCVIS 580-170329/3), (LCS 580-169198/2-A), (LCSD 580-169198/3-A), (MB 580-169198/1-A).

Method(s) 8270C, 8270D: The MB, LCS and LCSD for preparation batch 169198 was originally run with the client samples on 9/19/14. Because of limited final extract volume (2mL FV) an aliquot of the QC was placed in autosampler (AS) vials with an insert. There was incomplete mixing of internal standard (IS) with the QC aliquots prior to the original run, which biased all results. (Mixing was not a problem with the client samples in this run because sample matrix required a 20X dilution so a full 1mL of dilute extract was used; complete IS mixing is more easily accomplished when an AS insert is not used.) Client samples were not re-run with the QC to minimize the degradation of the analytical column due to challenging matrix in these sample extracts. (LCS 580-169198/2-A), (LCSD 580-169198/3-A), (MB 580-169198/1-A)

Method(s) 8270C, 8270D: The following samples were diluted due to the nature of the sample matrix: PS-TS-01-20140909-S (580-45295-1). A 20X dilution was the minimum dilution that allowed the samples in analytical batch 169198 to report without interference to the Perylene-d12 internal standard. Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

Method(s) NWTPH-Dx: In analytical batch 169857, for the following sample(s) from preparation batch 169589: (580-45295-1 DU), PS-TS-01-20140909-S (580-45295-1), the results in the #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) range(s) are due to what

Case Narrative

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

Job ID: 580-45295-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

most closely resembles a complex mixture of a weathered gasoline product, weathered/degraded diesel fuel, and motor oil range products. The affected analyte range(s) have been Y qualified and reported.

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 batch 168408 contained lead above the method detection limit. The concentration was less than the reporting limit (RL); therefore, re-analysis of samples was not performed.

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

General Chemistry

Method(s) 9060_PSEP: Due to instrumentation issues, the following samples were not run within the allotted hold time:
PS-TS-01-20140909-S (580-45295-1)

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.



Definitions/Glossary

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| * | ISTD response or retention time outside acceptable limits |
| E | Result exceeded calibration range. |
| X | Surrogate is outside control 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. |

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. |
| B | Compound was found in the blank and sample. |
| ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits. |

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| Y | The chromatographic response resembles a typical fuel pattern. |

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. |

General Chemistry

| Qualifier | Qualifier Description |
|-----------|--|
| H | Sample was prepped or analyzed beyond the specified holding time |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | 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) |
| 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 Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

Client Sample ID: PS-TS-01-20140909-S

Lab Sample ID: 580-45295-1

Date Collected: 09/09/14 13:50

Matrix: Solid

Date Received: 09/09/14 16:15

Percent Solids: 66.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-------------|------------|-----|------|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 1.5 | 0.62 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.5 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 3.1 | 1.4 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.5 | 0.31 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,1,2-Trichloroethane | ND | | 3.1 | 0.77 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,1-Dichloroethane | ND | | 1.5 | 0.62 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,1-Dichloroethene | ND | | 7.7 | 0.31 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,1-Dichloropropene | ND | | 1.5 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,2,3-Trichlorobenzene | ND | * | 3.1 | 0.92 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,2,3-Trichloropropane | ND | * | 1.5 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,2,4-Trichlorobenzene | ND | * | 3.1 | 0.62 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,2,4-Trimethylbenzene | NQ | * | 3.1 | 0.62 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | * | 3.1 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,2-Dibromoethane | ND | | 1.5 | 0.31 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,2-Dichlorobenzene | ND | * | 3.1 | 0.92 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,2-Dichloroethane | ND | | 1.5 | 0.62 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,2-Dichloropropane | ND | | 1.5 | 0.62 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,3,5-Trimethylbenzene | 1900 | E * | 7.7 | 0.77 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,3-Dichlorobenzene | ND | * | 3.1 | 0.77 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,3-Dichloropropane | ND | | 3.1 | 0.77 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 1,4-Dichlorobenzene | ND | * | 1.5 | 0.31 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 2,2-Dichloropropane | ND | | 7.7 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 2-Butanone | 28 | | 15 | 4.6 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 7.7 | 2.2 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 2-Chlorotoluene | ND | * | 3.1 | 0.77 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 2-Hexanone | ND | | 7.7 | 0.77 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 4-Chlorotoluene | ND | * | 3.1 | 0.77 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 4-Isopropyltoluene | 48 | * | 3.1 | 0.62 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| 4-Methyl-2-pentanone | 110 | | 7.7 | 2.3 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Acetone | 190 | | 23 | 3.7 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Acrolein | ND | | 46 | 13 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Acrylonitrile | ND | | 15 | 4.3 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Benzene | 0.81 | J | 1.5 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Bromobenzene | ND | * | 3.1 | 0.77 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Bromochloromethane | ND | | 3.1 | 0.77 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Bromodichloromethane | ND | | 1.5 | 0.62 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Bromoform | ND | * | 1.5 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Bromomethane | ND | | 1.5 | 0.62 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Carbon disulfide | 1.0 | J | 1.5 | 0.31 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Carbon tetrachloride | ND | | 1.5 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Chlorobenzene | ND | | 1.5 | 0.62 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Chlorodibromomethane | ND | | 3.1 | 0.77 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Chloroethane | ND | | 1.5 | 0.31 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Chloroform | ND | | 1.5 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Chloromethane | ND | | 1.5 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.5 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.5 | 0.31 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Dibromomethane | ND | | 1.5 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Dichlorodifluoromethane | ND | | 1.5 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |

TestAmerica Seattle

Client Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

Client Sample ID: PS-TS-01-20140909-S

Lab Sample ID: 580-45295-1

Date Collected: 09/09/14 13:50

Matrix: Solid

Date Received: 09/09/14 16:15

Percent Solids: 66.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|-------------|------------|-----|------|-------|---|----------------|----------------|---------|
| Ethylbenzene | 310 | | 1.5 | 0.62 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Hexachloro-1,3-butadiene | ND | * | 3.1 | 0.92 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Iodomethane | ND | | 23 | 0.31 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Isopropylbenzene | 100 | | 3.1 | 0.31 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Methyl tert-butyl ether | ND | | 1.5 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Methylene Chloride | ND | | 23 | 4.6 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| m-Xylene & p-Xylene | 1600 | E | 3.1 | 0.31 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Naphthalene | 8.7 | * | 7.7 | 0.77 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| n-Butylbenzene | 160 | * | 3.1 | 0.31 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| N-Propylbenzene | 520 | E * | 3.1 | 0.77 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| o-Xylene | NQ | | 3.1 | 0.77 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| sec-Butylbenzene | 44 | * | 3.1 | 0.77 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Styrene | ND | | 3.1 | 0.31 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| tert-Butylbenzene | 2.1 | J * | 3.1 | 0.31 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Tetrachloroethene | ND | | 1.5 | 0.62 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Toluene | 34 | | 3.1 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.5 | 0.62 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.5 | 0.31 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| trans-1,4-Dichloro-2-butene | ND | * | 7.7 | 2.6 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Trichloroethene | ND | | 1.5 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Trichlorofluoromethane | ND | | 1.5 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Vinyl acetate | ND | | 7.7 | 0.92 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| Vinyl chloride | ND | | 1.5 | 0.46 | ug/Kg | ☼ | 09/09/14 15:30 | 09/22/14 19:05 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| <i>Toluene-d8 (Surr)</i> | 125 | X | 80 - 120 | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| <i>4-Bromofluorobenzene (Surr)</i> | 151 | X * | 70 - 120 | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| <i>Dibromofluoromethane (Surr)</i> | 88 | | 75 - 132 | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| <i>Trifluorotoluene (Surr)</i> | 84 | | 65 - 140 | 09/09/14 15:30 | 09/22/14 19:05 | 1 |
| <i>1,2-Dichloroethane-d4 (Surr)</i> | 116 | | 71 - 136 | 09/09/14 15:30 | 09/22/14 19:05 | 1 |

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 180 | 4.8 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,1,1-Trichloroethane | ND | | 180 | 25 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 44 | 10 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 180 | 30 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,1,2-Trichloroethane | ND | | 53 | 12 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,1-Dichloroethane | ND | | 180 | 19 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,1-Dichloroethene | ND | | 88 | 39 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,1-Dichloropropene | ND | | 180 | 23 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 180 | 34 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,2,3-Trichloropropane | ND | | 180 | 17 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 180 | 17 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,2,4-Trimethylbenzene | 16000 | | 180 | 15 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| BBC 12 | ND | | 880 | 11 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,2-Dibromoethane | ND | | 71 | 15 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,2-Dichlorobenzene | ND | | 180 | 14 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,2-Dichloroethane | ND | | 71 | 15 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,2-Dichloropropane | ND | | 53 | 11 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |

TestAmerica Seattle

Client Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

Client Sample ID: PS-TS-01-20140909-S

Lab Sample ID: 580-45295-1

Date Collected: 09/09/14 13:50

Matrix: Solid

Date Received: 09/09/14 16:15

Percent Solids: 66.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|--------------|------------|------|-----|-------|---|----------------|----------------|---------|
| 1,3,5-Trimethylbenzene | 13000 | | 180 | 13 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,3-Dichlorobenzene | ND | | 180 | 14 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,3-Dichloropropane | ND | | 180 | 10 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,4-Dichlorobenzene | ND | | 180 | 8.8 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 2,2-Dichloropropane | ND | | 180 | 21 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 2-Butanone | ND | | 1800 | 82 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 880 | 27 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 2-Chlorotoluene | ND | | 180 | 15 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 2-Hexanone | ND | | 880 | 51 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 4-Chlorotoluene | ND | | 180 | 13 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 4-Isopropyltoluene | 510 | | 180 | 12 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 4-Methyl-2-pentanone | 1300 | | 880 | 36 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Acetone | 1300 | J | 1800 | 770 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Acrylonitrile | ND | | 880 | 420 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Benzene | ND | | 71 | 15 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Bromobenzene | ND | | 180 | 11 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Bromochloromethane | ND | | 180 | 20 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Bromodichloromethane | ND | | 180 | 6.2 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Bromoform | ND | | 180 | 9.7 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Bromomethane | ND | | 620 | 59 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Carbon disulfide | ND | | 180 | 19 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Carbon tetrachloride | ND | | 88 | 17 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Chlorobenzene | ND | | 180 | 9.3 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Chlorodibromomethane | ND | | 88 | 4.4 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Chloroethane | ND | | 1800 | 70 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Chloroform | ND | | 180 | 19 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Chloromethane | ND | | 440 | 45 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| cis-1,2-Dichloroethene | ND | | 180 | 22 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| cis-1,3-Dichloropropene | ND | | 71 | 7.9 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Dibromomethane | ND | | 180 | 18 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Dichlorodifluoromethane | ND | | 180 | 29 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Ethylbenzene | 860 | | 180 | 8.8 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Hexachloro-1,3-butadiene | ND | | 180 | 15 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Iodomethane | ND | | 880 | 28 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Isopropylbenzene | 1000 | | 180 | 11 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Methyl tert-butyl ether | ND | | 180 | 26 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Methylene Chloride | 110 | | 110 | 51 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| m-Xylene & p-Xylene | 5000 | | 180 | 13 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Naphthalene | 80 | J B | 180 | 26 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| n-Butylbenzene | 2100 | | 180 | 15 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| N-Propylbenzene | 1700 | | 180 | 11 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| o-Xylene | 7200 | | 180 | 13 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| sec-Butylbenzene | 600 | | 180 | 12 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Styrene | ND | | 180 | 11 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| tert-Butylbenzene | ND | | 180 | 14 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Tetrachloroethene | ND | | 88 | 5.7 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Toluene | 150 | J | 180 | 11 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| trans-1,2-Dichloroethene | ND | | 180 | 27 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| trans-1,3-Dichloropropene | ND | | 71 | 11 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |

TestAmerica Seattle

Client Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

Client Sample ID: PS-TS-01-20140909-S

Lab Sample ID: 580-45295-1

Date Collected: 09/09/14 13:50

Matrix: Solid

Date Received: 09/09/14 16:15

Percent Solids: 66.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| trans-1,4-Dichloro-2-butene | ND | | 880 | 71 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Trichloroethene | ND | | 71 | 14 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Trichlorofluoromethane | 32 | J | 180 | 26 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Vinyl acetate | ND | | 880 | 49 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Vinyl chloride | ND | | 71 | 31 | ug/Kg | ☼ | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Trifluorotoluene (Surr) | 108 | | 65 - 140 | | | | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 | | | | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 91 | | 71 - 136 | | | | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 120 | | | | 09/23/14 08:06 | 09/23/14 17:43 | 1 |
| Dibromofluoromethane (Surr) | 95 | | 75 - 132 | | | | 09/23/14 08:06 | 09/23/14 17:43 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Phenol | 590 | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Bis(2-chloroethyl)ether | ND | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 2-Chlorophenol | ND | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 1,3-Dichlorobenzene | ND | | 150 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 1,4-Dichlorobenzene | ND | | 150 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Benzyl alcohol | 1300 | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 1,2-Dichlorobenzene | ND | | 160 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 2-Methylphenol | ND | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 2,2'-oxybis[1-chloropropane] | ND | | 750 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 3 & 4 Methylphenol | 530 | J | 600 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| N-Nitrosodi-n-propylamine | ND | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Hexachloroethane | 1200 | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Nitrobenzene | 120 | J | 300 | 100 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Isophorone | 44 | J | 300 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 2-Nitrophenol | ND | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 2,4-Dimethylphenol | ND | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Benzoic acid | ND | | 7500 | 2200 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Bis(2-chloroethoxy)methane | ND | | 300 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 2,4-Dichlorophenol | ND | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 1,2,4-Trichlorobenzene | ND | | 150 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Naphthalene | 100 | | 60 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 4-Chloroaniline | ND | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Hexachlorobutadiene | ND | | 150 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 4-Chloro-3-methylphenol | ND | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 2-Methylnaphthalene | 27 | J | 60 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 1-Methylnaphthalene | 24 | J | 90 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Hexachlorocyclopentadiene | ND | | 300 | 30 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 2,4,6-Trichlorophenol | ND | | 450 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 2,4,5-Trichlorophenol | ND | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 2-Chloronaphthalene | ND | | 60 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 2-Nitroaniline | ND | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Dimethyl phthalate | ND | | 300 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Acenaphthylene | ND | | 60 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 2,6-Dinitrotoluene | ND | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 3-Nitroaniline | ND | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |

TestAmerica Seattle

Client Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

Client Sample ID: PS-TS-01-20140909-S

Lab Sample ID: 580-45295-1

Date Collected: 09/09/14 13:50

Matrix: Solid

Date Received: 09/09/14 16:15

Percent Solids: 66.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-------------|------------|------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene | 61 | | 60 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 2,4-Dinitrophenol | ND | | 3000 | 600 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 4-Nitrophenol | ND | | 3000 | 750 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Dibenzofuran | 36 | J | 300 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 2,4-Dinitrotoluene | ND | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Diethyl phthalate | 100 | J B | 600 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 4-Chlorophenyl phenyl ether | ND | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Fluorene | 88 | | 60 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 4-Nitroaniline | ND | | 300 | 60 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 4,6-Dinitro-2-methylphenol | ND | | 3000 | 300 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| N-Nitrosodiphenylamine | ND | | 150 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 4-Bromophenyl phenyl ether | ND | | 300 | 45 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Hexachlorobenzene | ND | | 150 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Pentachlorophenol | ND | | 600 | 60 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Phenanthrene | 1000 | | 60 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Anthracene | 270 | | 60 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Carbazole | 76 | J | 300 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Di-n-butyl phthalate | 340 | J | 1500 | 150 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Fluoranthene | 1200 | | 60 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Pyrene | 1100 | | 60 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Butyl benzyl phthalate | 2800 | | 600 | 150 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 3,3'-Dichlorobenzidine | ND | | 600 | 90 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Benzo[a]anthracene | 600 | | 60 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Chrysene | 750 | | 75 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Bis(2-ethylhexyl) phthalate | 7200 | B | 1800 | 150 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Di-n-octyl phthalate | 270 | J | 1500 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Benzo[b]fluoranthene | 710 | | 60 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Benzo[k]fluoranthene | 220 | | 75 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Benzo[a]pyrene | 450 | | 90 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Indeno[1,2,3-cd]pyrene | 260 | | 120 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Dibenz(a,h)anthracene | 44 | J | 120 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Benzo[g,h,i]perylene | 250 | | 75 | 15 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| N-Nitrosodimethylamine | ND | | 3000 | 750 | ug/Kg | ☼ | 09/12/14 11:00 | 09/19/14 20:33 | 20 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorophenol | 62 | | 36 - 145 | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Phenol-d5 | 83 | | 38 - 149 | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 2,4,6-Tribromophenol | 44 | | 28 - 143 | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Nitrobenzene-d5 | 72 | | 38 - 141 | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| 2-Fluorobiphenyl | 62 | | 42 - 140 | 09/12/14 11:00 | 09/19/14 20:33 | 20 |
| Terphenyl-d14 | 84 | | 42 - 151 | 09/12/14 11:00 | 09/19/14 20:33 | 20 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Gasoline | 330 | | 18 | 2.2 | mg/Kg | ☼ | 09/12/14 09:10 | 09/12/14 22:50 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116 | | 50 - 150 | 09/12/14 09:10 | 09/12/14 22:50 | 1 |

TestAmerica Seattle

Client Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

Client Sample ID: PS-TS-01-20140909-S

Lab Sample ID: 580-45295-1

Date Collected: 09/09/14 13:50

Matrix: Solid

Date Received: 09/09/14 16:15

Percent Solids: 66.7

Method: 8082 - PCBs

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|------------------|------------------|---------------|--------|-------|---|-----------------|-----------------|----------------|
| Arochlor 1016 | ND | | 0.014 | 0.0046 | mg/Kg | ☼ | 09/15/14 13:42 | 09/16/14 18:58 | 1 |
| Arochlor 1221 | ND | | 0.016 | 0.011 | mg/Kg | ☼ | 09/15/14 13:42 | 09/16/14 18:58 | 1 |
| Arochlor 1232 | ND | | 0.016 | 0.010 | mg/Kg | ☼ | 09/15/14 13:42 | 09/16/14 18:58 | 1 |
| Arochlor 1242 | ND | | 0.014 | 0.0030 | mg/Kg | ☼ | 09/15/14 13:42 | 09/16/14 18:58 | 1 |
| Arochlor 1248 | ND | | 0.014 | 0.0043 | mg/Kg | ☼ | 09/15/14 13:42 | 09/16/14 18:58 | 1 |
| Arochlor 1254 | ND | | 0.014 | 0.0030 | mg/Kg | ☼ | 09/15/14 13:42 | 09/16/14 18:58 | 1 |
| Arochlor 1260 | ND | | 0.014 | 0.0043 | mg/Kg | ☼ | 09/15/14 13:42 | 09/16/14 18:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Tetrachloro-m-xylene | 73 | | 45 - 135 | | | | 09/15/14 13:42 | 09/16/14 18:58 | 1 |
| DCB Decachlorobiphenyl | 75 | | 50 - 140 | | | | 09/15/14 13:42 | 09/16/14 18:58 | 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) | 1300 | Y | 36 | 8.3 | mg/Kg | ☼ | 09/12/14 13:02 | 09/16/14 11:46 | 1 |
| Motor Oil (>C24-C36) | 6000 | Y | 73 | 13 | mg/Kg | ☼ | 09/12/14 13:02 | 09/16/14 11:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| o-Terphenyl | 99 | | 50 - 150 | | | | 09/12/14 13:02 | 09/16/14 11:46 | 1 |

Method: 6020 - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|--------|-------|---|----------------|----------------|---------|
| Arsenic | 5.5 | | 0.51 | 0.18 | mg/Kg | ☼ | 09/10/14 07:45 | 09/10/14 15:28 | 10 |
| Lead | 39 | B | 0.20 | 0.013 | mg/Kg | ☼ | 09/10/14 07:45 | 09/10/14 15:28 | 10 |
| Antimony | 0.89 | | 0.20 | 0.043 | mg/Kg | ☼ | 09/10/14 07:45 | 09/10/14 15:28 | 10 |
| Beryllium | 0.15 | J | 0.20 | 0.036 | mg/Kg | ☼ | 09/10/14 07:45 | 09/10/14 15:28 | 10 |
| Cadmium | 0.93 | | 0.20 | 0.0082 | mg/Kg | ☼ | 09/10/14 07:45 | 09/10/14 15:28 | 10 |
| Chromium | 66 | | 0.20 | 0.12 | mg/Kg | ☼ | 09/10/14 07:45 | 09/10/14 15:28 | 10 |
| Copper | 270 | | 0.41 | 0.10 | mg/Kg | ☼ | 09/10/14 07:45 | 09/10/14 15:28 | 10 |
| Nickel | 60 | | 0.51 | 0.083 | mg/Kg | ☼ | 09/10/14 07:45 | 09/10/14 15:28 | 10 |
| Selenium | 0.45 | J | 0.71 | 0.21 | mg/Kg | ☼ | 09/10/14 07:45 | 09/10/14 15:28 | 10 |
| Silver | 0.27 | | 0.20 | 0.012 | mg/Kg | ☼ | 09/10/14 07:45 | 09/10/14 15:28 | 10 |
| Thallium | ND | | 0.51 | 0.13 | mg/Kg | ☼ | 09/10/14 07:45 | 09/10/14 15:28 | 10 |
| Zinc | 26000 | | 200 | 110 | mg/Kg | ☼ | 09/10/14 07:45 | 09/10/14 15:41 | 1000 |

Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.28 | | 0.018 | 0.0056 | mg/Kg | ☼ | 09/17/14 15:58 | 09/18/14 11:18 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|-------|-------|-------|---|----------|----------------|---------|
| Total Organic Carbon | 50000 | H | 2000 | 250 | mg/Kg | | | 09/24/14 16:33 | 1 |
| Percent Solids | 67 | | 0.10 | 0.10 | % | | | 09/11/14 09:16 | 1 |
| Percent Moisture | 33 | | 0.10 | 0.10 | % | | | 09/11/14 09:16 | 1 |
| Total Solids | 57 | | 0.012 | 0.012 | % | | | 09/11/14 08:54 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Cobbles | 0.00 | | | | % | | | 09/16/14 14:25 | 1 |
| Gravel | 0.40 | | | | % | | | 09/16/14 14:25 | 1 |
| Sand | 65 | | | | % | | | 09/16/14 14:25 | 1 |

TestAmerica Seattle

Client Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

Client Sample ID: PS-TS-01-20140909-S

Lab Sample ID: 580-45295-1

Date Collected: 09/09/14 13:50

Matrix: Solid

Date Received: 09/09/14 16:15

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Silt | 33 | | | | % | | | 09/16/14 14:25 | 1 |
| Clay | 1.8 | | | | % | | | 09/16/14 14:25 | 1 |



QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: MB 580-170378/1-A

Matrix: Solid

Analysis Batch: 170368

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 170378

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.40 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.0 | 0.90 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.20 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.0 | 0.50 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.40 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.20 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,1-Dichloropropene | ND | | 1.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 2.0 | 0.60 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,2,3-Trichloropropane | ND | | 1.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | 0.40 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 2.0 | 0.40 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.20 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,2-Dichlorobenzene | ND | | 2.0 | 0.60 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.40 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.40 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.50 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,3-Dichlorobenzene | ND | | 2.0 | 0.50 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,3-Dichloropropane | ND | | 2.0 | 0.50 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.20 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 2,2-Dichloropropane | ND | | 5.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 2-Butanone | ND | | 10 | 3.0 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 5.0 | 1.4 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 2-Chlorotoluene | ND | | 2.0 | 0.50 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.50 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 4-Chlorotoluene | ND | | 2.0 | 0.50 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 4-Isopropyltoluene | ND | | 2.0 | 0.40 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 4-Methyl-2-pentanone | ND | | 5.0 | 1.5 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Acetone | ND | | 15 | 2.4 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Acrolein | ND | | 30 | 8.2 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Acrylonitrile | ND | | 10 | 2.8 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Benzene | ND | | 1.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Bromobenzene | ND | | 2.0 | 0.50 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Bromochloromethane | ND | | 2.0 | 0.50 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.40 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Bromoform | ND | | 1.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Bromomethane | ND | | 1.0 | 0.40 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.20 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.40 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Chlorodibromomethane | ND | | 2.0 | 0.50 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Chloroethane | ND | | 1.0 | 0.20 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Chloroform | ND | | 1.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Chloromethane | ND | | 1.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Dibromomethane | ND | | 1.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: MB 580-170378/1-A
Matrix: Solid
Analysis Batch: 170368

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170378

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Dichlorodifluoromethane | ND | | 1.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.40 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Hexachloro-1,3-butadiene | ND | | 2.0 | 0.60 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Iodomethane | ND | | 15 | 0.20 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Isopropylbenzene | ND | | 2.0 | 0.20 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Methylene Chloride | ND | | 15 | 3.0 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | 0.20 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Naphthalene | ND | | 5.0 | 0.50 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| n-Butylbenzene | ND | | 2.0 | 0.20 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| N-Propylbenzene | ND | | 2.0 | 0.50 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| o-Xylene | ND | | 2.0 | 0.50 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| sec-Butylbenzene | ND | | 2.0 | 0.50 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Styrene | ND | | 2.0 | 0.20 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| tert-Butylbenzene | ND | | 2.0 | 0.20 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.40 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Toluene | ND | | 2.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.40 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.20 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | 5.0 | 1.7 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Trichloroethene | ND | | 1.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Vinyl acetate | ND | | 5.0 | 0.60 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.30 | ug/Kg | | 09/22/14 08:22 | 09/22/14 09:03 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Toluene-d8 (Surr) | 101 | | 80 - 120 | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | 70 - 120 | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 75 - 132 | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| Trifluorotoluene (Surr) | 98 | | 65 - 140 | 09/22/14 08:22 | 09/22/14 09:03 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 71 - 136 | 09/22/14 08:22 | 09/22/14 09:03 | 1 |

Lab Sample ID: LCS 580-170378/2-A
Matrix: Solid
Analysis Batch: 170368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170378

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| 1,1,1,2-Tetrachloroethane | 30.0 | 29.8 | | ug/Kg | | 99 | 72 - 123 |
| 1,1,1,1-Trichloroethane | 30.0 | 29.2 | | ug/Kg | | 97 | 63 - 135 |
| 1,1,1,2,2-Tetrachloroethane | 30.0 | 30.8 | | ug/Kg | | 103 | 73 - 125 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 30.0 | 27.2 | | ug/Kg | | 91 | 66 - 163 |
| 1,1,2-Trichloroethane | 30.0 | 30.5 | | ug/Kg | | 102 | 77 - 124 |
| 1,1-Dichloroethane | 30.0 | 29.6 | | ug/Kg | | 99 | 70 - 128 |
| 1,1-Dichloroethene | 30.0 | 27.1 | | ug/Kg | | 90 | 70 - 133 |
| 1,1-Dichloropropene | 30.0 | 31.6 | | ug/Kg | | 105 | 77 - 125 |
| 1,2,3-Trichlorobenzene | 30.0 | 29.0 | | ug/Kg | | 97 | 61 - 130 |
| 1,2,3-Trichloropropane | 30.0 | 30.1 | | ug/Kg | | 100 | 77 - 123 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: LCS 580-170378/2-A

Matrix: Solid

Analysis Batch: 170368

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170378

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|-------|---|------|--------------|
| 1,2,4-Trichlorobenzene | 30.0 | 28.3 | | ug/Kg | | 94 | 61 - 130 |
| 1,2,4-Trimethylbenzene | 30.0 | 23.8 | | ug/Kg | | 79 | 79 - 124 |
| 1,2-Dibromo-3-Chloropropane | 30.0 | 31.5 | | ug/Kg | | 105 | 53 - 132 |
| 1,2-Dibromoethane | 30.0 | 29.2 | | ug/Kg | | 97 | 69 - 126 |
| 1,2-Dichlorobenzene | 30.0 | 27.9 | | ug/Kg | | 93 | 79 - 117 |
| 1,2-Dichloroethane | 30.0 | 29.5 | | ug/Kg | | 98 | 71 - 128 |
| 1,2-Dichloropropane | 30.0 | 31.0 | | ug/Kg | | 103 | 76 - 161 |
| 1,3,5-Trimethylbenzene | 30.0 | 25.0 | | ug/Kg | | 83 | 80 - 125 |
| 1,3-Dichlorobenzene | 30.0 | 26.8 | | ug/Kg | | 89 | 79 - 119 |
| 1,3-Dichloropropane | 30.0 | 29.1 | | ug/Kg | | 97 | 77 - 123 |
| 1,4-Dichlorobenzene | 30.0 | 26.4 | | ug/Kg | | 88 | 79 - 117 |
| 2,2-Dichloropropane | 30.0 | 27.8 | | ug/Kg | | 93 | 56 - 144 |
| 2-Butanone | 120 | 121 | | ug/Kg | | 101 | 30 - 160 |
| 2-Chloroethyl vinyl ether | 30.0 | 29.4 | | ug/Kg | | 98 | 60 - 150 |
| 2-Chlorotoluene | 30.0 | 26.8 | | ug/Kg | | 89 | 79 - 122 |
| 2-Hexanone | 120 | 112 | | ug/Kg | | 93 | 45 - 145 |
| 4-Chlorotoluene | 30.0 | 27.9 | | ug/Kg | | 93 | 80 - 122 |
| 4-Isopropyltoluene | 30.0 | 26.0 | | ug/Kg | | 87 | 78 - 126 |
| 4-Methyl-2-pentanone | 120 | 132 | | ug/Kg | | 110 | 45 - 145 |
| Acetone | 120 | 124 | | ug/Kg | | 103 | 20 - 160 |
| Acrolein | 178 | 182 | | ug/Kg | | 102 | 10 - 125 |
| Acrylonitrile | 300 | 305 | | ug/Kg | | 102 | 74 - 117 |
| Benzene | 30.0 | 30.2 | | ug/Kg | | 101 | 70 - 128 |
| Bromobenzene | 30.0 | 27.5 | | ug/Kg | | 92 | 80 - 120 |
| Bromochloromethane | 30.0 | 31.5 | | ug/Kg | | 105 | 78 - 123 |
| Bromodichloromethane | 30.0 | 30.8 | | ug/Kg | | 103 | 58 - 133 |
| Bromoform | 30.0 | 27.9 | | ug/Kg | | 93 | 50 - 124 |
| Bromomethane | 30.0 | 26.8 | | ug/Kg | | 89 | 57 - 148 |
| Carbon disulfide | 30.0 | 28.5 | | ug/Kg | | 95 | 45 - 160 |
| Carbon tetrachloride | 30.0 | 29.1 | | ug/Kg | | 97 | 59 - 145 |
| Chlorobenzene | 30.0 | 27.9 | | ug/Kg | | 93 | 75 - 120 |
| Chlorodibromomethane | 30.0 | 30.1 | | ug/Kg | | 100 | 42 - 129 |
| Chloroethane | 30.0 | 26.8 | | ug/Kg | | 89 | 48 - 167 |
| Chloroform | 30.0 | 30.2 | | ug/Kg | | 101 | 78 - 125 |
| Chloromethane | 30.0 | 25.3 | | ug/Kg | | 84 | 55 - 136 |
| cis-1,2-Dichloroethene | 30.0 | 31.2 | | ug/Kg | | 104 | 70 - 130 |
| cis-1,3-Dichloropropene | 30.0 | 28.1 | | ug/Kg | | 94 | 69 - 129 |
| Dibromomethane | 30.0 | 32.3 | | ug/Kg | | 108 | 78 - 126 |
| Dichlorodifluoromethane | 30.0 | 22.9 | | ug/Kg | | 76 | 38 - 150 |
| Ethylbenzene | 30.0 | 30.2 | | ug/Kg | | 101 | 78 - 126 |
| Hexachloro-1,3-butadiene | 30.0 | 25.2 | | ug/Kg | | 84 | 68 - 134 |
| Iodomethane | 30.0 | 30.7 | | ug/Kg | | 102 | 44 - 148 |
| Isopropylbenzene | 30.0 | 24.6 | | ug/Kg | | 82 | 79 - 127 |
| Methyl tert-butyl ether | 30.0 | 34.3 | | ug/Kg | | 114 | 65 - 125 |
| Methylene Chloride | 30.0 | 25.3 | | ug/Kg | | 84 | 57 - 146 |
| m-Xylene & p-Xylene | 30.0 | 28.3 | | ug/Kg | | 94 | 78 - 126 |
| Naphthalene | 30.0 | 26.9 | | ug/Kg | | 90 | 14 - 170 |
| n-Butylbenzene | 30.0 | 25.4 | | ug/Kg | | 85 | 78 - 128 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: LCS 580-170378/2-A

Matrix: Solid

Analysis Batch: 170368

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170378

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|-------|---|------|--------------|
| N-Propylbenzene | 30.0 | 26.1 | | ug/Kg | | 87 | 81 - 127 |
| o-Xylene | 30.0 | 28.5 | | ug/Kg | | 95 | 77 - 127 |
| sec-Butylbenzene | 30.0 | 24.3 | | ug/Kg | | 81 | 78 - 128 |
| Styrene | 30.0 | 26.5 | | ug/Kg | | 88 | 79 - 127 |
| tert-Butylbenzene | 30.0 | 22.6 | | ug/Kg | | 75 | 71 - 136 |
| Tetrachloroethene | 30.0 | 26.2 | | ug/Kg | | 87 | 56 - 155 |
| Toluene | 30.0 | 28.8 | | ug/Kg | | 96 | 75 - 126 |
| trans-1,2-Dichloroethene | 30.0 | 30.2 | | ug/Kg | | 101 | 76 - 131 |
| trans-1,3-Dichloropropene | 30.0 | 25.5 | | ug/Kg | | 85 | 72 - 129 |
| trans-1,4-Dichloro-2-butene | 30.0 | 23.7 | | ug/Kg | | 79 | 42 - 160 |
| Trichloroethene | 30.0 | 31.3 | | ug/Kg | | 104 | 83 - 124 |
| Trichlorofluoromethane | 30.0 | 26.8 | | ug/Kg | | 89 | 47 - 165 |
| Vinyl acetate | 60.1 | 58.3 | | ug/Kg | | 97 | 19 - 144 |
| Vinyl chloride | 30.0 | 25.6 | | ug/Kg | | 85 | 67 - 131 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| Toluene-d8 (Surr) | 98 | | 80 - 120 |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 120 |
| Dibromofluoromethane (Surr) | 104 | | 75 - 132 |
| Trifluorotoluene (Surr) | 99 | | 65 - 140 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 71 - 136 |

Lab Sample ID: LCSD 580-170378/3-A

Matrix: Solid

Analysis Batch: 170368

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170378

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|---------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| 1,1,1,2-Tetrachloroethane | 30.0 | 30.4 | | ug/Kg | | 101 | 72 - 123 | 2 | 20 |
| 1,1,1-Trichloroethane | 30.0 | 28.9 | | ug/Kg | | 96 | 63 - 135 | 1 | 20 |
| 1,1,2,2-Tetrachloroethane | 30.0 | 31.8 | | ug/Kg | | 106 | 73 - 125 | 3 | 22 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 30.0 | 25.6 | | ug/Kg | | 85 | 66 - 163 | 6 | 30 |
| 1,1,2-Trichloroethane | 30.0 | 32.8 | | ug/Kg | | 109 | 77 - 124 | 7 | 18 |
| 1,1-Dichloroethane | 30.0 | 30.2 | | ug/Kg | | 101 | 70 - 128 | 2 | 21 |
| 1,1-Dichloroethene | 30.0 | 26.5 | | ug/Kg | | 88 | 70 - 133 | 2 | 23 |
| 1,1-Dichloropropene | 30.0 | 32.2 | | ug/Kg | | 107 | 77 - 125 | 2 | 16 |
| 1,2,3-Trichlorobenzene | 30.0 | 30.0 | | ug/Kg | | 100 | 61 - 130 | 4 | 23 |
| 1,2,3-Trichloropropane | 30.0 | 32.5 | | ug/Kg | | 108 | 77 - 123 | 8 | 23 |
| 1,2,4-Trichlorobenzene | 30.0 | 29.8 | | ug/Kg | | 99 | 61 - 130 | 5 | 22 |
| 1,2,4-Trimethylbenzene | 30.0 | 25.5 | | ug/Kg | | 85 | 79 - 124 | 7 | 18 |
| 1,2-Dibromo-3-Chloropropane | 30.0 | 33.6 | | ug/Kg | | 112 | 53 - 132 | 7 | 27 |
| 1,2-Dibromoethane | 30.0 | 33.1 | | ug/Kg | | 110 | 69 - 126 | 13 | 21 |
| 1,2-Dichlorobenzene | 30.0 | 30.4 | | ug/Kg | | 101 | 79 - 117 | 9 | 17 |
| 1,2-Dichloroethane | 30.0 | 30.6 | | ug/Kg | | 102 | 71 - 128 | 4 | 18 |
| 1,2-Dichloropropane | 30.0 | 31.6 | | ug/Kg | | 105 | 76 - 161 | 2 | 15 |
| 1,3,5-Trimethylbenzene | 30.0 | 26.7 | | ug/Kg | | 89 | 80 - 125 | 6 | 18 |
| 1,3-Dichlorobenzene | 30.0 | 29.7 | | ug/Kg | | 99 | 79 - 119 | 10 | 17 |
| 1,3-Dichloropropane | 30.0 | 32.2 | | ug/Kg | | 107 | 77 - 123 | 10 | 19 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: LCSD 580-170378/3-A

Matrix: Solid

Analysis Batch: 170368

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170378

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. | RPD | RPD |
|-----------------------------|-------------|-------------|----------------|-------|---|------|----------|-----|-------|
| | | | | | | | Limits | RPD | Limit |
| 1,4-Dichlorobenzene | 30.0 | 29.5 | | ug/Kg | | 98 | 79 - 117 | 11 | 18 |
| 2,2-Dichloropropane | 30.0 | 26.5 | | ug/Kg | | 88 | 56 - 144 | 5 | 21 |
| 2-Butanone | 120 | 123 | | ug/Kg | | 102 | 30 - 160 | 1 | 30 |
| 2-Chloroethyl vinyl ether | 30.0 | 34.0 | | ug/Kg | | 113 | 60 - 150 | 15 | 30 |
| 2-Chlorotoluene | 30.0 | 29.3 | | ug/Kg | | 98 | 79 - 122 | 9 | 18 |
| 2-Hexanone | 120 | 124 | | ug/Kg | | 103 | 45 - 145 | 10 | 30 |
| 4-Chlorotoluene | 30.0 | 31.3 | | ug/Kg | | 104 | 80 - 122 | 12 | 18 |
| 4-Isopropyltoluene | 30.0 | 27.3 | | ug/Kg | | 91 | 78 - 126 | 5 | 18 |
| 4-Methyl-2-pentanone | 120 | 136 | | ug/Kg | | 114 | 45 - 145 | 3 | 30 |
| Acetone | 120 | 124 | | ug/Kg | | 103 | 20 - 160 | 0 | 30 |
| Acrolein | 178 | 190 | | ug/Kg | | 107 | 10 - 125 | 4 | 30 |
| Acrylonitrile | 300 | 299 | | ug/Kg | | 100 | 74 - 117 | 2 | 30 |
| Benzene | 30.0 | 30.9 | | ug/Kg | | 103 | 70 - 128 | 3 | 19 |
| Bromobenzene | 30.0 | 31.4 | | ug/Kg | | 105 | 80 - 120 | 13 | 19 |
| Bromochloromethane | 30.0 | 32.5 | | ug/Kg | | 108 | 78 - 123 | 3 | 19 |
| Bromodichloromethane | 30.0 | 32.5 | | ug/Kg | | 108 | 58 - 133 | 5 | 19 |
| Bromoform | 30.0 | 32.4 | | ug/Kg | | 108 | 50 - 124 | 15 | 25 |
| Bromomethane | 30.0 | 25.0 | | ug/Kg | | 83 | 57 - 148 | 7 | 29 |
| Carbon disulfide | 30.0 | 27.4 | | ug/Kg | | 91 | 45 - 160 | 4 | 30 |
| Carbon tetrachloride | 30.0 | 28.3 | | ug/Kg | | 94 | 59 - 145 | 3 | 19 |
| Chlorobenzene | 30.0 | 29.8 | | ug/Kg | | 99 | 75 - 120 | 7 | 21 |
| Chlorodibromomethane | 30.0 | 32.7 | | ug/Kg | | 109 | 42 - 129 | 8 | 23 |
| Chloroethane | 30.0 | 25.3 | | ug/Kg | | 84 | 48 - 167 | 6 | 53 |
| Chloroform | 30.0 | 30.9 | | ug/Kg | | 103 | 78 - 125 | 2 | 17 |
| Chloromethane | 30.0 | 23.3 | | ug/Kg | | 78 | 55 - 136 | 8 | 26 |
| cis-1,2-Dichloroethene | 30.0 | 30.9 | | ug/Kg | | 103 | 70 - 130 | 1 | 19 |
| cis-1,3-Dichloropropene | 30.0 | 30.8 | | ug/Kg | | 103 | 69 - 129 | 9 | 19 |
| Dibromomethane | 30.0 | 33.3 | | ug/Kg | | 111 | 78 - 126 | 3 | 18 |
| Dichlorodifluoromethane | 30.0 | 20.6 | | ug/Kg | | 69 | 38 - 150 | 11 | 26 |
| Ethylbenzene | 30.0 | 31.5 | | ug/Kg | | 105 | 78 - 126 | 4 | 23 |
| Hexachloro-1,3-butadiene | 30.0 | 25.4 | | ug/Kg | | 85 | 68 - 134 | 1 | 21 |
| Iodomethane | 30.0 | 29.5 | | ug/Kg | | 98 | 44 - 148 | 4 | 30 |
| Isopropylbenzene | 30.0 | 24.7 | | ug/Kg | | 82 | 79 - 127 | 0 | 20 |
| Methyl tert-butyl ether | 30.0 | 34.4 | | ug/Kg | | 115 | 65 - 125 | 0 | 30 |
| Methylene Chloride | 30.0 | 23.8 | | ug/Kg | | 79 | 57 - 146 | 6 | 21 |
| m-Xylene & p-Xylene | 30.0 | 29.5 | | ug/Kg | | 98 | 78 - 126 | 4 | 23 |
| Naphthalene | 30.0 | 29.1 | | ug/Kg | | 97 | 14 - 170 | 8 | 50 |
| n-Butylbenzene | 30.0 | 26.2 | | ug/Kg | | 87 | 78 - 128 | 3 | 17 |
| N-Propylbenzene | 30.0 | 28.2 | | ug/Kg | | 94 | 81 - 127 | 8 | 20 |
| o-Xylene | 30.0 | 29.1 | | ug/Kg | | 97 | 77 - 127 | 2 | 22 |
| sec-Butylbenzene | 30.0 | 25.0 | | ug/Kg | | 83 | 78 - 128 | 3 | 17 |
| Styrene | 30.0 | 29.1 | | ug/Kg | | 97 | 79 - 127 | 9 | 21 |
| tert-Butylbenzene | 30.0 | 24.2 | | ug/Kg | | 81 | 71 - 136 | 7 | 27 |
| Tetrachloroethene | 30.0 | 26.8 | | ug/Kg | | 89 | 56 - 155 | 2 | 27 |
| Toluene | 30.0 | 30.5 | | ug/Kg | | 102 | 75 - 126 | 6 | 19 |
| trans-1,2-Dichloroethene | 30.0 | 29.9 | | ug/Kg | | 100 | 76 - 131 | 1 | 18 |
| trans-1,3-Dichloropropene | 30.0 | 28.7 | | ug/Kg | | 96 | 72 - 129 | 12 | 20 |
| trans-1,4-Dichloro-2-butene | 30.0 | 28.4 | | ug/Kg | | 95 | 42 - 160 | 18 | 30 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: LCSD 580-170378/3-A
Matrix: Solid
Analysis Batch: 170368

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 170378

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Trichloroethene | 30.0 | 31.9 | | ug/Kg | | 106 | 83 - 124 | 2 | 17 |
| Trichlorofluoromethane | 30.0 | 25.0 | | ug/Kg | | 83 | 47 - 165 | 7 | 54 |
| Vinyl acetate | 60.1 | 60.0 | | ug/Kg | | 100 | 19 - 144 | 3 | 30 |
| Vinyl chloride | 30.0 | 23.7 | | ug/Kg | | 79 | 67 - 131 | 8 | 22 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|------------------------------|----------------|----------------|----------|
| Toluene-d8 (Surr) | 99 | | 80 - 120 |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 120 |
| Dibromofluoromethane (Surr) | 103 | | 75 - 132 |
| Trifluorotoluene (Surr) | 94 | | 65 - 140 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 71 - 136 |

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-170481/1-A
Matrix: Solid
Analysis Batch: 170500

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170481

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 40 | 1.1 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,1,1-Trichloroethane | ND | | 40 | 5.6 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | 10 | 2.3 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 40 | 6.8 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,1,2-Trichloroethane | ND | | 12 | 2.8 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,1-Dichloroethane | ND | | 40 | 4.2 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,1-Dichloroethene | ND | | 20 | 8.8 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,1-Dichloropropene | ND | | 40 | 5.3 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 40 | 7.8 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,2,3-Trichloropropane | ND | | 40 | 3.8 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 40 | 3.9 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 40 | 3.3 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| BBC 12 | ND | | 200 | 2.6 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,2-Dibromoethane | ND | | 16 | 3.4 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,2-Dichlorobenzene | ND | | 40 | 3.2 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,2-Dichloroethane | ND | | 16 | 3.3 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,2-Dichloropropane | ND | | 12 | 2.4 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 40 | 2.9 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,3-Dichlorobenzene | ND | | 40 | 3.1 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,3-Dichloropropane | ND | | 40 | 2.3 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,4-Dichlorobenzene | ND | | 40 | 2.0 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 2,2-Dichloropropane | ND | | 40 | 4.8 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 2-Butanone | ND | | 400 | 19 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 2-Chloroethyl vinyl ether | ND | | 200 | 6.2 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 2-Chlorotoluene | ND | | 40 | 3.4 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 2-Hexanone | ND | | 200 | 12 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 4-Chlorotoluene | ND | | 40 | 3.0 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 4-Isopropyltoluene | ND | | 40 | 2.8 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 4-Methyl-2-pentanone | ND | | 200 | 8.2 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: MB 580-170481/1-A
Matrix: Solid
Analysis Batch: 170500

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170481

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Acetone | ND | | 400 | 170 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Acrylonitrile | ND | | 200 | 96 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Benzene | ND | | 16 | 3.5 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Bromobenzene | ND | | 40 | 2.4 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Bromochloromethane | ND | | 40 | 4.6 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Bromodichloromethane | ND | | 40 | 1.4 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Bromoform | ND | | 40 | 2.2 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Bromomethane | ND | | 140 | 13 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Carbon disulfide | ND | | 40 | 4.4 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Carbon tetrachloride | ND | | 20 | 3.8 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Chlorobenzene | ND | | 40 | 2.1 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Chlorodibromomethane | ND | | 20 | 1.0 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Chloroethane | ND | | 400 | 16 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Chloroform | ND | | 40 | 4.2 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Chloromethane | ND | | 100 | 10 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| cis-1,2-Dichloroethene | ND | | 40 | 4.9 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| cis-1,3-Dichloropropene | ND | | 16 | 1.8 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Dibromomethane | ND | | 40 | 4.1 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Dichlorodifluoromethane | ND | | 40 | 6.5 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Ethylbenzene | ND | | 40 | 2.0 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Hexachloro-1,3-butadiene | 5.18 | J | 40 | 3.3 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Iodomethane | ND | | 200 | 6.3 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Isopropylbenzene | ND | | 40 | 2.6 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Methyl tert-butyl ether | ND | | 40 | 6.0 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Methylene Chloride | ND | | 25 | 12 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| m-Xylene & p-Xylene | ND | | 40 | 3.0 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Naphthalene | 7.12 | J | 40 | 6.0 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| n-Butylbenzene | ND | | 40 | 3.5 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| N-Propylbenzene | ND | | 40 | 2.6 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| o-Xylene | ND | | 40 | 3.0 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| sec-Butylbenzene | ND | | 40 | 2.8 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Styrene | ND | | 40 | 2.4 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| tert-Butylbenzene | ND | | 40 | 3.1 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Tetrachloroethene | 1.58 | J | 20 | 1.3 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Toluene | ND | | 40 | 2.6 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| trans-1,2-Dichloroethene | ND | | 40 | 6.1 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| trans-1,3-Dichloropropene | ND | | 16 | 2.4 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | 200 | 16 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Trichloroethene | ND | | 16 | 3.1 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Trichlorofluoromethane | ND | | 40 | 5.9 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Vinyl acetate | ND | | 200 | 11 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Vinyl chloride | ND | | 16 | 7.1 | ug/Kg | | 09/23/14 08:06 | 09/23/14 09:24 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| Trifluorotoluene (Surr) | 109 | | 65 - 140 | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 71 - 136 | 09/23/14 08:06 | 09/23/14 09:24 | 1 |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 120 | 09/23/14 08:06 | 09/23/14 09:24 | 1 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: MB 580-170481/1-A
Matrix: Solid
Analysis Batch: 170500

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170481

| <i>Surrogate</i> | <i>MB MB</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-----------------------------|------------------|---------------|-----------------|-----------------|----------------|
| <i>%Recovery</i> | <i>Qualifier</i> | | | | |
| Dibromofluoromethane (Surr) | 97 | 75 - 132 | 09/23/14 08:06 | 09/23/14 09:24 | 1 |

Lab Sample ID: LCS 580-170481/2-A
Matrix: Solid
Analysis Batch: 170500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170481

| <i>Analyte</i> | <i>Spike Added</i> | <i>LCS Result</i> | <i>LCS Qualifier</i> | <i>Unit</i> | <i>D</i> | <i>%Rec</i> | <i>%Rec. Limits</i> |
|---------------------------------------|--------------------|-------------------|----------------------|-------------|----------|-------------|---------------------|
| 1,1,1,2-Tetrachloroethane | 800 | 768 | | ug/Kg | | 96 | 72 - 123 |
| 1,1,1,1-Trichloroethane | 800 | 779 | | ug/Kg | | 97 | 63 - 135 |
| 1,1,1,2-Tetrachloroethane | 800 | 752 | | ug/Kg | | 94 | 73 - 125 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 800 | 828 | | ug/Kg | | 103 | 66 - 163 |
| 1,1,2-Trichloroethane | 800 | 745 | | ug/Kg | | 93 | 77 - 124 |
| 1,1-Dichloroethane | 800 | 745 | | ug/Kg | | 93 | 70 - 128 |
| 1,1-Dichloroethene | 800 | 774 | | ug/Kg | | 97 | 70 - 133 |
| 1,1-Dichloropropene | 800 | 780 | | ug/Kg | | 97 | 77 - 125 |
| 1,2,3-Trichlorobenzene | 800 | 727 | | ug/Kg | | 91 | 61 - 130 |
| 1,2,3-Trichloropropane | 800 | 727 | | ug/Kg | | 91 | 77 - 123 |
| 1,2,4-Trichlorobenzene | 800 | 752 | | ug/Kg | | 94 | 61 - 130 |
| 1,2,4-Trimethylbenzene | 800 | 781 | | ug/Kg | | 98 | 79 - 124 |
| BBC 12 | 800 | 728 | | ug/Kg | | 91 | 53 - 132 |
| 1,2-Dibromoethane | 800 | 747 | | ug/Kg | | 93 | 69 - 126 |
| 1,2-Dichlorobenzene | 800 | 748 | | ug/Kg | | 94 | 79 - 117 |
| 1,2-Dichloroethane | 800 | 701 | | ug/Kg | | 88 | 71 - 128 |
| 1,2-Dichloropropane | 800 | 719 | | ug/Kg | | 90 | 76 - 161 |
| 1,3,5-Trimethylbenzene | 800 | 776 | | ug/Kg | | 97 | 80 - 125 |
| 1,3-Dichlorobenzene | 800 | 759 | | ug/Kg | | 95 | 79 - 119 |
| 1,3-Dichloropropane | 800 | 750 | | ug/Kg | | 94 | 77 - 123 |
| 1,4-Dichlorobenzene | 800 | 734 | | ug/Kg | | 92 | 79 - 117 |
| 2,2-Dichloropropane | 800 | 738 | | ug/Kg | | 92 | 56 - 144 |
| 2-Butanone | 3200 | 3060 | | ug/Kg | | 96 | 30 - 160 |
| 2-Chloroethyl vinyl ether | 800 | 711 | | ug/Kg | | 89 | 60 - 150 |
| 2-Chlorotoluene | 800 | 764 | | ug/Kg | | 95 | 79 - 122 |
| 2-Hexanone | 3200 | 2920 | | ug/Kg | | 91 | 45 - 145 |
| 4-Chlorotoluene | 800 | 757 | | ug/Kg | | 95 | 80 - 122 |
| 4-Isopropyltoluene | 800 | 799 | | ug/Kg | | 100 | 78 - 126 |
| 4-Methyl-2-pentanone | 3200 | 3090 | | ug/Kg | | 97 | 45 - 145 |
| Acetone | 3200 | 2790 | | ug/Kg | | 87 | 20 - 160 |
| Acrylonitrile | 8000 | 7080 | | ug/Kg | | 89 | 74 - 117 |
| Benzene | 800 | 739 | | ug/Kg | | 92 | 70 - 128 |
| Bromobenzene | 800 | 746 | | ug/Kg | | 93 | 80 - 120 |
| Bromochloromethane | 800 | 742 | | ug/Kg | | 93 | 78 - 123 |
| Bromodichloromethane | 800 | 773 | | ug/Kg | | 97 | 58 - 133 |
| Bromoform | 800 | 772 | | ug/Kg | | 96 | 50 - 124 |
| Bromomethane | 800 | 669 | | ug/Kg | | 84 | 57 - 148 |
| Carbon disulfide | 800 | 790 | | ug/Kg | | 99 | 45 - 160 |
| Carbon tetrachloride | 800 | 798 | | ug/Kg | | 100 | 59 - 145 |
| Chlorobenzene | 800 | 760 | | ug/Kg | | 95 | 75 - 120 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: LCS 580-170481/2-A

Matrix: Solid

Analysis Batch: 170500

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170481

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | |
|-----------------------------|-------------|------------|---------------|-------|---|------|--------------|--|
| | | | | | | | | |
| Chlorodibromomethane | 800 | 786 | | ug/Kg | | 98 | 42 - 129 | |
| Chloroethane | 800 | 692 | | ug/Kg | | 87 | 48 - 167 | |
| Chloroform | 800 | 753 | | ug/Kg | | 94 | 78 - 125 | |
| Chloromethane | 800 | 660 | | ug/Kg | | 82 | 55 - 136 | |
| cis-1,2-Dichloroethene | 800 | 721 | | ug/Kg | | 90 | 70 - 130 | |
| cis-1,3-Dichloropropene | 800 | 759 | | ug/Kg | | 95 | 69 - 129 | |
| Dibromomethane | 800 | 735 | | ug/Kg | | 92 | 78 - 126 | |
| Dichlorodifluoromethane | 800 | 682 | | ug/Kg | | 85 | 38 - 150 | |
| Ethylbenzene | 800 | 771 | | ug/Kg | | 96 | 78 - 126 | |
| Hexachloro-1,3-butadiene | 800 | 798 | | ug/Kg | | 100 | 68 - 134 | |
| Iodomethane | 800 | 735 | | ug/Kg | | 92 | 44 - 148 | |
| Isopropylbenzene | 800 | 798 | | ug/Kg | | 100 | 79 - 127 | |
| Methyl tert-butyl ether | 800 | 710 | | ug/Kg | | 89 | 65 - 125 | |
| Methylene Chloride | 800 | 677 | | ug/Kg | | 85 | 57 - 146 | |
| m-Xylene & p-Xylene | 800 | 781 | | ug/Kg | | 98 | 78 - 126 | |
| Naphthalene | 800 | 738 | | ug/Kg | | 92 | 14 - 170 | |
| n-Butylbenzene | 800 | 804 | | ug/Kg | | 100 | 78 - 128 | |
| N-Propylbenzene | 800 | 786 | | ug/Kg | | 98 | 81 - 127 | |
| o-Xylene | 800 | 768 | | ug/Kg | | 96 | 77 - 127 | |
| sec-Butylbenzene | 800 | 811 | | ug/Kg | | 101 | 78 - 128 | |
| Styrene | 800 | 777 | | ug/Kg | | 97 | 79 - 127 | |
| tert-Butylbenzene | 800 | 793 | | ug/Kg | | 99 | 71 - 136 | |
| Tetrachloroethene | 800 | 738 | | ug/Kg | | 92 | 56 - 155 | |
| Toluene | 800 | 751 | | ug/Kg | | 94 | 75 - 126 | |
| trans-1,2-Dichloroethene | 800 | 709 | | ug/Kg | | 89 | 76 - 131 | |
| trans-1,3-Dichloropropene | 800 | 767 | | ug/Kg | | 96 | 72 - 129 | |
| trans-1,4-Dichloro-2-butene | 800 | 716 | | ug/Kg | | 89 | 42 - 160 | |
| Trichloroethene | 800 | 751 | | ug/Kg | | 94 | 83 - 124 | |
| Trichlorofluoromethane | 800 | 766 | | ug/Kg | | 96 | 47 - 165 | |
| Vinyl acetate | 1600 | 1310 | | ug/Kg | | 82 | 19 - 144 | |
| Vinyl chloride | 800 | 700 | | ug/Kg | | 88 | 67 - 131 | |

| Surrogate | LCS LCS | | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| Trifluorotoluene (Surr) | 103 | | 65 - 140 |
| Toluene-d8 (Surr) | 101 | | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 71 - 136 |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 120 |
| Dibromofluoromethane (Surr) | 100 | | 75 - 132 |

Lab Sample ID: LCSD 580-170481/3-A

Matrix: Solid

Analysis Batch: 170500

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170481

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | | RPD Limit | |
|---------------------------|-------------|-------------|----------------|-------|---|------|--------------|---|-----------|-------|
| | | | | | | | | | RPD | Limit |
| 1,1,1,2-Tetrachloroethane | 800 | 795 | | ug/Kg | | 99 | 72 - 123 | 3 | 20 | |
| 1,1,1-Trichloroethane | 800 | 796 | | ug/Kg | | 99 | 63 - 135 | 2 | 20 | |
| 1,1,2,2-Tetrachloroethane | 800 | 780 | | ug/Kg | | 98 | 73 - 125 | 4 | 22 | |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: LCSD 580-170481/3-A

Matrix: Solid

Analysis Batch: 170500

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170481

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. | RPD | RPD |
|---------------------------------------|-------------|-------------|----------------|-------|---|------|----------|-----|-------|
| | | | | | | | Limits | RPD | Limit |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 800 | 856 | | ug/Kg | | 107 | 66 - 163 | 3 | 30 |
| 1,1,2-Trichloroethane | 800 | 774 | | ug/Kg | | 97 | 77 - 124 | 4 | 18 |
| 1,1-Dichloroethane | 800 | 752 | | ug/Kg | | 94 | 70 - 128 | 1 | 21 |
| 1,1-Dichloroethene | 800 | 791 | | ug/Kg | | 99 | 70 - 133 | 2 | 23 |
| 1,1-Dichloropropene | 800 | 796 | | ug/Kg | | 100 | 77 - 125 | 2 | 16 |
| 1,2,3-Trichlorobenzene | 800 | 728 | | ug/Kg | | 91 | 61 - 130 | 0 | 23 |
| 1,2,3-Trichloropropane | 800 | 757 | | ug/Kg | | 95 | 77 - 123 | 4 | 23 |
| 1,2,4-Trichlorobenzene | 800 | 745 | | ug/Kg | | 93 | 61 - 130 | 1 | 22 |
| 1,2,4-Trimethylbenzene | 800 | 785 | | ug/Kg | | 98 | 79 - 124 | 1 | 18 |
| BBC 12 | 800 | 745 | | ug/Kg | | 93 | 53 - 132 | 2 | 27 |
| 1,2-Dibromoethane | 800 | 766 | | ug/Kg | | 96 | 69 - 126 | 3 | 21 |
| 1,2-Dichlorobenzene | 800 | 754 | | ug/Kg | | 94 | 79 - 117 | 1 | 17 |
| 1,2-Dichloroethane | 800 | 722 | | ug/Kg | | 90 | 71 - 128 | 3 | 18 |
| 1,2-Dichloropropane | 800 | 727 | | ug/Kg | | 91 | 76 - 161 | 1 | 15 |
| 1,3,5-Trimethylbenzene | 800 | 780 | | ug/Kg | | 97 | 80 - 125 | 0 | 18 |
| 1,3-Dichlorobenzene | 800 | 760 | | ug/Kg | | 95 | 79 - 119 | 0 | 17 |
| 1,3-Dichloropropane | 800 | 766 | | ug/Kg | | 96 | 77 - 123 | 2 | 19 |
| 1,4-Dichlorobenzene | 800 | 739 | | ug/Kg | | 92 | 79 - 117 | 1 | 18 |
| 2,2-Dichloropropane | 800 | 759 | | ug/Kg | | 95 | 56 - 144 | 3 | 21 |
| 2-Butanone | 3200 | 2990 | | ug/Kg | | 93 | 30 - 160 | 2 | 30 |
| 2-Chloroethyl vinyl ether | 800 | 723 | | ug/Kg | | 90 | 60 - 150 | 2 | 30 |
| 2-Chlorotoluene | 800 | 766 | | ug/Kg | | 96 | 79 - 122 | 0 | 18 |
| 2-Hexanone | 3200 | 3010 | | ug/Kg | | 94 | 45 - 145 | 3 | 30 |
| 4-Chlorotoluene | 800 | 763 | | ug/Kg | | 95 | 80 - 122 | 1 | 18 |
| 4-Isopropyltoluene | 800 | 798 | | ug/Kg | | 100 | 78 - 126 | 0 | 18 |
| 4-Methyl-2-pentanone | 3200 | 3190 | | ug/Kg | | 100 | 45 - 145 | 3 | 30 |
| Acetone | 3200 | 2830 | | ug/Kg | | 88 | 20 - 160 | 1 | 30 |
| Acrylonitrile | 8000 | 7210 | | ug/Kg | | 90 | 74 - 117 | 2 | 30 |
| Benzene | 800 | 745 | | ug/Kg | | 93 | 70 - 128 | 1 | 19 |
| Bromobenzene | 800 | 752 | | ug/Kg | | 94 | 80 - 120 | 1 | 19 |
| Bromochloromethane | 800 | 759 | | ug/Kg | | 95 | 78 - 123 | 2 | 19 |
| Bromodichloromethane | 800 | 795 | | ug/Kg | | 99 | 58 - 133 | 3 | 19 |
| Bromoform | 800 | 790 | | ug/Kg | | 99 | 50 - 124 | 2 | 25 |
| Bromomethane | 800 | 679 | | ug/Kg | | 85 | 57 - 148 | 2 | 29 |
| Carbon disulfide | 800 | 805 | | ug/Kg | | 101 | 45 - 160 | 2 | 30 |
| Carbon tetrachloride | 800 | 821 | | ug/Kg | | 103 | 59 - 145 | 3 | 19 |
| Chlorobenzene | 800 | 779 | | ug/Kg | | 97 | 75 - 120 | 2 | 21 |
| Chlorodibromomethane | 800 | 799 | | ug/Kg | | 100 | 42 - 129 | 2 | 23 |
| Chloroethane | 800 | 708 | | ug/Kg | | 88 | 48 - 167 | 2 | 53 |
| Chloroform | 800 | 768 | | ug/Kg | | 96 | 78 - 125 | 2 | 17 |
| Chloromethane | 800 | 665 | | ug/Kg | | 83 | 55 - 136 | 1 | 26 |
| cis-1,2-Dichloroethene | 800 | 760 | | ug/Kg | | 95 | 70 - 130 | 5 | 19 |
| cis-1,3-Dichloropropene | 800 | 786 | | ug/Kg | | 98 | 69 - 129 | 3 | 19 |
| Dibromomethane | 800 | 754 | | ug/Kg | | 94 | 78 - 126 | 3 | 18 |
| Dichlorodifluoromethane | 800 | 654 | | ug/Kg | | 82 | 38 - 150 | 4 | 26 |
| Ethylbenzene | 800 | 787 | | ug/Kg | | 98 | 78 - 126 | 2 | 23 |
| Hexachloro-1,3-butadiene | 800 | 823 | | ug/Kg | | 103 | 68 - 134 | 3 | 21 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: LCSD 580-170481/3-A
Matrix: Solid
Analysis Batch: 170500

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 170481

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|-------|---|------|--------------|---|-----|-----------|
| | | | | | | | | | | |
| Iodomethane | 800 | 760 | | ug/Kg | | 95 | 44 - 148 | 3 | 30 | |
| Isopropylbenzene | 800 | 818 | | ug/Kg | | 102 | 79 - 127 | 3 | 20 | |
| Methyl tert-butyl ether | 800 | 743 | | ug/Kg | | 93 | 65 - 125 | 5 | 30 | |
| Methylene Chloride | 800 | 694 | | ug/Kg | | 87 | 57 - 146 | 2 | 21 | |
| m-Xylene & p-Xylene | 800 | 799 | | ug/Kg | | 100 | 78 - 126 | 2 | 23 | |
| Naphthalene | 800 | 739 | | ug/Kg | | 92 | 14 - 170 | 0 | 50 | |
| n-Butylbenzene | 800 | 810 | | ug/Kg | | 101 | 78 - 128 | 1 | 17 | |
| N-Propylbenzene | 800 | 793 | | ug/Kg | | 99 | 81 - 127 | 1 | 20 | |
| o-Xylene | 800 | 778 | | ug/Kg | | 97 | 77 - 127 | 1 | 22 | |
| sec-Butylbenzene | 800 | 816 | | ug/Kg | | 102 | 78 - 128 | 1 | 17 | |
| Styrene | 800 | 790 | | ug/Kg | | 99 | 79 - 127 | 2 | 21 | |
| tert-Butylbenzene | 800 | 796 | | ug/Kg | | 99 | 71 - 136 | 0 | 27 | |
| Tetrachloroethene | 800 | 801 | | ug/Kg | | 100 | 56 - 155 | 8 | 27 | |
| Toluene | 800 | 772 | | ug/Kg | | 97 | 75 - 126 | 3 | 19 | |
| trans-1,2-Dichloroethene | 800 | 775 | | ug/Kg | | 97 | 76 - 131 | 9 | 18 | |
| trans-1,3-Dichloropropene | 800 | 794 | | ug/Kg | | 99 | 72 - 129 | 3 | 20 | |
| trans-1,4-Dichloro-2-butene | 800 | 723 | | ug/Kg | | 90 | 42 - 160 | 1 | 30 | |
| Trichloroethene | 800 | 768 | | ug/Kg | | 96 | 83 - 124 | 2 | 17 | |
| Trichlorofluoromethane | 800 | 779 | | ug/Kg | | 97 | 47 - 165 | 2 | 54 | |
| Vinyl acetate | 1600 | 1320 | | ug/Kg | | 82 | 19 - 144 | 0 | 30 | |
| Vinyl chloride | 800 | 682 | | ug/Kg | | 85 | 67 - 131 | 3 | 22 | |

| Surrogate | LCSD LCSD | | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| Trifluorotoluene (Surr) | 104 | | 65 - 140 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 71 - 136 |
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 120 |
| Dibromofluoromethane (Surr) | 100 | | 75 - 132 |

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

Lab Sample ID: MB 580-169198/1-A
Matrix: Solid
Analysis Batch: 170329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 169198

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Phenol | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Bis(2-chloroethyl)ether | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 2-Chlorophenol | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Benzyl alcohol | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.5 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 2-Methylphenol | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 2,2'-oxybis[1-chloropropane] | ND | | 25 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 3 & 4 Methylphenol | ND | | 20 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Hexachloroethane | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: MB 580-169198/1-A

Matrix: Solid

Analysis Batch: 170329

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 169198

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Nitrobenzene | ND | | 10 | 3.4 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Isophorone | ND | | 10 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 2-Nitrophenol | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 2,4-Dimethylphenol | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Benzoic acid | ND | | 250 | 75 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 10 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 2,4-Dichlorophenol | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Naphthalene | ND | | 2.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 4-Chloroaniline | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 4-Chloro-3-methylphenol | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 2-Methylnaphthalene | ND | | 2.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 1-Methylnaphthalene | ND | | 3.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 1.0 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 2,4,6-Trichlorophenol | ND | | 15 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 2-Chloronaphthalene | ND | | 2.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 2-Nitroaniline | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Dimethyl phthalate | 1.77 | J | 10 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Acenaphthylene | ND | | 2.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 2,6-Dinitrotoluene | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 3-Nitroaniline | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Acenaphthene | ND | | 2.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 2,4-Dinitrophenol | ND | | 100 | 20 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 4-Nitrophenol | ND | | 100 | 25 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Dibenzofuran | ND | | 10 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 2,4-Dinitrotoluene | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Diethyl phthalate | 14.6 | J ^ | 20 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Fluorene | ND | | 2.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 4-Nitroaniline | ND | | 10 | 2.0 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 100 | 10 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| N-Nitrosodiphenylamine | ND | | 5.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 10 | 1.5 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Hexachlorobenzene | ND | | 5.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Pentachlorophenol | ND | | 20 | 2.0 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Phenanthrene | ND | | 2.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Anthracene | ND | | 2.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Carbazole | ND | | 10 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Di-n-butyl phthalate | ND | | 50 | 5.0 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Fluoranthene | ND | | 2.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Pyrene | ND | | 2.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Butyl benzyl phthalate | ND | | 20 | 5.0 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 20 | 3.0 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Benzo[a]anthracene | ND | | 2.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Chrysene | ND | | 2.5 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Bis(2-ethylhexyl) phthalate | 7.66 | J | 60 | 5.0 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: MB 580-169198/1-A
Matrix: Solid
Analysis Batch: 170329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 169198

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Di-n-octyl phthalate | ND | | 50 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Benzo[b]fluoranthene | ND | | 2.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Benzo[k]fluoranthene | ND | | 2.5 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Benzo[a]pyrene | ND | | 3.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 4.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Dibenz(a,h)anthracene | ND | | 4.0 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Benzo[g,h,i]perylene | ND | | 2.5 | 0.50 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| N-Nitrosodimethylamine | ND | | 100 | 25 | ug/Kg | | 09/12/14 11:00 | 09/20/14 17:49 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2-Fluorophenol | 91 | | 36 - 145 | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Phenol-d5 | 85 | | 38 - 149 | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 2,4,6-Tribromophenol | 77 | | 28 - 143 | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Nitrobenzene-d5 | 75 | | 38 - 141 | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| 2-Fluorobiphenyl | 73 | | 42 - 140 | 09/12/14 11:00 | 09/20/14 17:49 | 1 |
| Terphenyl-d14 | 91 | | 42 - 151 | 09/12/14 11:00 | 09/20/14 17:49 | 1 |

Lab Sample ID: LCS 580-169198/2-A
Matrix: Solid
Analysis Batch: 170329

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 169198

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Phenol | 100 | 96.1 | | ug/Kg | | 96 | 63 - 111 |
| Bis(2-chloroethyl)ether | 100 | 69.3 | | ug/Kg | | 69 | 62 - 110 |
| 2-Chlorophenol | 100 | 82.4 | | ug/Kg | | 82 | 68 - 117 |
| 1,3-Dichlorobenzene | 100 | 80.4 | | ug/Kg | | 80 | 64 - 111 |
| 1,4-Dichlorobenzene | 100 | 73.6 | | ug/Kg | | 74 | 65 - 110 |
| Benzyl alcohol | 100 | 94.1 | | ug/Kg | | 94 | 55 - 123 |
| 1,2-Dichlorobenzene | 100 | 75.9 | | ug/Kg | | 76 | 64 - 112 |
| 2-Methylphenol | 100 | 89.5 | | ug/Kg | | 89 | 71 - 116 |
| 2,2'-oxybis[1-chloropropane] | 100 | 75.1 | | ug/Kg | | 75 | 41 - 126 |
| 3 & 4 Methylphenol | 100 | 94.5 | | ug/Kg | | 94 | 70 - 116 |
| N-Nitrosodi-n-propylamine | 100 | 78.1 | | ug/Kg | | 78 | 62 - 116 |
| Hexachloroethane | 100 | 74.3 | | ug/Kg | | 74 | 62 - 120 |
| Nitrobenzene | 100 | 73.8 | | ug/Kg | | 74 | 64 - 118 |
| Isophorone | 100 | 83.6 | | ug/Kg | | 84 | 67 - 119 |
| 2-Nitrophenol | 100 | 79.9 | | ug/Kg | | 80 | 67 - 127 |
| 2,4-Dimethylphenol | 100 | 56.8 | | ug/Kg | | 57 | 54 - 139 |
| Benzoic acid | 200 | 199 | J | ug/Kg | | 99 | 29 - 158 |
| Bis(2-chloroethoxy)methane | 100 | 84.6 | | ug/Kg | | 85 | 69 - 107 |
| 2,4-Dichlorophenol | 100 | 88.4 | | ug/Kg | | 88 | 68 - 125 |
| 1,2,4-Trichlorobenzene | 100 | 84.1 | | ug/Kg | | 84 | 66 - 115 |
| Naphthalene | 100 | 76.4 | | ug/Kg | | 76 | 62 - 112 |
| 4-Chloroaniline | 100 | 41.4 | | ug/Kg | | 41 | 20 - 103 |
| Hexachlorobutadiene | 100 | 72.9 | | ug/Kg | | 73 | 65 - 116 |
| 4-Chloro-3-methylphenol | 100 | 83.8 | | ug/Kg | | 84 | 69 - 121 |
| 2-Methylnaphthalene | 100 | 80.1 | | ug/Kg | | 80 | 64 - 119 |
| 1-Methylnaphthalene | 100 | 79.2 | | ug/Kg | | 79 | 62 - 118 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: LCS 580-169198/2-A

Matrix: Solid

Analysis Batch: 170329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 169198

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|-------|---|------|--------------|
| | | | | | | | |
| Hexachlorocyclopentadiene | 100 | 82.2 | | ug/Kg | | 82 | 46 - 131 |
| 2,4,6-Trichlorophenol | 100 | 95.8 | | ug/Kg | | 96 | 62 - 133 |
| 2,4,5-Trichlorophenol | 100 | 97.7 | | ug/Kg | | 98 | 57 - 133 |
| 2-Chloronaphthalene | 100 | 82.8 | | ug/Kg | | 83 | 68 - 112 |
| 2-Nitroaniline | 100 | 82.7 | | ug/Kg | | 83 | 64 - 112 |
| Dimethyl phthalate | 100 | 98.4 | | ug/Kg | | 98 | 78 - 117 |
| Acenaphthylene | 100 | 81.5 | | ug/Kg | | 81 | 68 - 120 |
| 2,6-Dinitrotoluene | 100 | 86.8 | | ug/Kg | | 87 | 66 - 123 |
| 3-Nitroaniline | 100 | 65.1 | | ug/Kg | | 65 | 27 - 103 |
| Acenaphthene | 100 | 81.5 | | ug/Kg | | 82 | 68 - 116 |
| 2,4-Dinitrophenol | 200 | 178 | | ug/Kg | | 89 | 20 - 141 |
| 4-Nitrophenol | 200 | 178 | | ug/Kg | | 89 | 20 - 165 |
| Dibenzofuran | 100 | 80.4 | | ug/Kg | | 80 | 72 - 109 |
| 2,4-Dinitrotoluene | 100 | 88.6 | | ug/Kg | | 89 | 68 - 121 |
| Diethyl phthalate | 100 | 110 | ^ | ug/Kg | | 110 | 73 - 116 |
| 4-Chlorophenyl phenyl ether | 100 | 84.6 | | ug/Kg | | 85 | 75 - 108 |
| Fluorene | 100 | 86.5 | | ug/Kg | | 87 | 70 - 121 |
| 4-Nitroaniline | 100 | 73.9 | | ug/Kg | | 74 | 58 - 108 |
| 4,6-Dinitro-2-methylphenol | 200 | 169 | | ug/Kg | | 85 | 48 - 130 |
| N-Nitrosodiphenylamine | 100 | 84.9 | | ug/Kg | | 85 | 73 - 115 |
| 4-Bromophenyl phenyl ether | 100 | 85.2 | | ug/Kg | | 85 | 68 - 122 |
| Hexachlorobenzene | 100 | 86.3 | | ug/Kg | | 86 | 66 - 117 |
| Pentachlorophenol | 200 | 158 | | ug/Kg | | 79 | 45 - 117 |
| Phenanthrene | 100 | 89.9 | | ug/Kg | | 90 | 73 - 106 |
| Anthracene | 100 | 89.4 | | ug/Kg | | 89 | 73 - 116 |
| Carbazole | 100 | 105 | | ug/Kg | | 105 | 76 - 135 |
| Di-n-butyl phthalate | 100 | 112 | | ug/Kg | | 112 | 66 - 140 |
| Fluoranthene | 100 | 99.1 | | ug/Kg | | 99 | 73 - 125 |
| Pyrene | 100 | 99.1 | | ug/Kg | | 99 | 70 - 120 |
| Butyl benzyl phthalate | 100 | 112 | | ug/Kg | | 112 | 69 - 142 |
| 3,3'-Dichlorobenzidine | 200 | 125 | | ug/Kg | | 62 | 20 - 103 |
| Benzo[a]anthracene | 100 | 101 | | ug/Kg | | 101 | 76 - 119 |
| Chrysene | 100 | 95.4 | | ug/Kg | | 95 | 75 - 114 |
| Bis(2-ethylhexyl) phthalate | 100 | 111 | | ug/Kg | | 111 | 62 - 144 |
| Di-n-octyl phthalate | 100 | 110 | | ug/Kg | | 110 | 65 - 141 |
| Benzo[b]fluoranthene | 100 | 95.0 | | ug/Kg | | 95 | 63 - 132 |
| Benzo[k]fluoranthene | 100 | 82.9 | | ug/Kg | | 83 | 63 - 119 |
| Benzo[a]pyrene | 100 | 90.3 | | ug/Kg | | 90 | 72 - 117 |
| Indeno[1,2,3-cd]pyrene | 100 | 85.3 | | ug/Kg | | 85 | 56 - 127 |
| Dibenz(a,h)anthracene | 100 | 94.7 | | ug/Kg | | 95 | 56 - 134 |
| Benzo[g,h,i]perylene | 100 | 94.4 | | ug/Kg | | 94 | 55 - 139 |
| N-Nitrosodimethylamine | 100 | 71.3 | J | ug/Kg | | 71 | 38 - 133 |

| Surrogate | LCS LCS | | Limits |
|----------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 2-Fluorophenol | 100 | | 36 - 145 |
| Phenol-d5 | 94 | | 38 - 149 |
| 2,4,6-Tribromophenol | 90 | | 28 - 143 |
| Nitrobenzene-d5 | 80 | | 38 - 141 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: LCS 580-169198/2-A

Matrix: Solid

Analysis Batch: 170329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 169198

| Surrogate | LCS LCS | | Limits |
|------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 2-Fluorobiphenyl | 80 | | 42 - 140 |
| Terphenyl-d14 | 106 | | 42 - 151 |

Lab Sample ID: LCSD 580-169198/3-A

Matrix: Solid

Analysis Batch: 170329

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 169198

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. | | RPD | |
|------------------------------|-------------|-------------|----------------|-------|---|------|----------|-----|-----|-------|
| | | | | | | | Limits | RPD | RPD | Limit |
| Phenol | 100 | 91.3 | | ug/Kg | | 91 | 63 - 111 | 5 | 26 | |
| Bis(2-chloroethyl)ether | 100 | 73.7 | | ug/Kg | | 74 | 62 - 110 | 6 | 22 | |
| 2-Chlorophenol | 100 | 82.0 | | ug/Kg | | 82 | 68 - 117 | 0 | 27 | |
| 1,3-Dichlorobenzene | 100 | 79.4 | | ug/Kg | | 79 | 64 - 111 | 1 | 30 | |
| 1,4-Dichlorobenzene | 100 | 76.8 | | ug/Kg | | 77 | 65 - 110 | 4 | 30 | |
| Benzyl alcohol | 100 | 90.3 | | ug/Kg | | 90 | 55 - 123 | 4 | 60 | |
| 1,2-Dichlorobenzene | 100 | 77.5 | | ug/Kg | | 78 | 64 - 112 | 2 | 30 | |
| 2-Methylphenol | 100 | 90.4 | | ug/Kg | | 90 | 71 - 116 | 1 | 25 | |
| 2,2'-oxybis[1-chloropropane] | 100 | 73.0 | | ug/Kg | | 73 | 41 - 126 | 3 | 57 | |
| 3 & 4 Methylphenol | 100 | 91.4 | | ug/Kg | | 91 | 70 - 116 | 3 | 27 | |
| N-Nitrosodi-n-propylamine | 100 | 78.1 | | ug/Kg | | 78 | 62 - 116 | 0 | 28 | |
| Hexachloroethane | 100 | 77.7 | | ug/Kg | | 78 | 62 - 120 | 4 | 30 | |
| Nitrobenzene | 100 | 77.4 | | ug/Kg | | 77 | 64 - 118 | 5 | 30 | |
| Isophorone | 100 | 76.7 | | ug/Kg | | 77 | 67 - 119 | 9 | 30 | |
| 2-Nitrophenol | 100 | 80.4 | | ug/Kg | | 80 | 67 - 127 | 1 | 30 | |
| 2,4-Dimethylphenol | 100 | 71.6 | | ug/Kg | | 72 | 54 - 139 | 23 | 30 | |
| Benzoic acid | 200 | 178 | J | ug/Kg | | 89 | 29 - 158 | 11 | 28 | |
| Bis(2-chloroethoxy)methane | 100 | 73.8 | | ug/Kg | | 74 | 69 - 107 | 14 | 30 | |
| 2,4-Dichlorophenol | 100 | 87.4 | | ug/Kg | | 87 | 68 - 125 | 1 | 30 | |
| 1,2,4-Trichlorobenzene | 100 | 78.0 | | ug/Kg | | 78 | 66 - 115 | 7 | 28 | |
| Naphthalene | 100 | 72.2 | | ug/Kg | | 72 | 62 - 112 | 6 | 26 | |
| 4-Chloroaniline | 100 | 39.8 | | ug/Kg | | 40 | 20 - 103 | 4 | 60 | |
| Hexachlorobutadiene | 100 | 77.8 | | ug/Kg | | 78 | 65 - 116 | 6 | 30 | |
| 4-Chloro-3-methylphenol | 100 | 82.6 | | ug/Kg | | 83 | 69 - 121 | 1 | 27 | |
| 2-Methylnaphthalene | 100 | 79.3 | | ug/Kg | | 79 | 64 - 119 | 1 | 27 | |
| 1-Methylnaphthalene | 100 | 76.4 | | ug/Kg | | 76 | 62 - 118 | 4 | 30 | |
| Hexachlorocyclopentadiene | 100 | 81.2 | | ug/Kg | | 81 | 46 - 131 | 1 | 29 | |
| 2,4,6-Trichlorophenol | 100 | 91.3 | | ug/Kg | | 91 | 62 - 133 | 5 | 30 | |
| 2,4,5-Trichlorophenol | 100 | 90.1 | | ug/Kg | | 90 | 57 - 133 | 8 | 30 | |
| 2-Chloronaphthalene | 100 | 79.2 | | ug/Kg | | 79 | 68 - 112 | 4 | 25 | |
| 2-Nitroaniline | 100 | 77.2 | | ug/Kg | | 77 | 64 - 112 | 7 | 22 | |
| Dimethyl phthalate | 100 | 89.9 | | ug/Kg | | 90 | 78 - 117 | 9 | 30 | |
| Acenaphthylene | 100 | 78.2 | | ug/Kg | | 78 | 68 - 120 | 4 | 28 | |
| 2,6-Dinitrotoluene | 100 | 79.7 | | ug/Kg | | 80 | 66 - 123 | 9 | 30 | |
| 3-Nitroaniline | 100 | 60.3 | | ug/Kg | | 60 | 27 - 103 | 8 | 33 | |
| Acenaphthene | 100 | 76.1 | | ug/Kg | | 76 | 68 - 116 | 7 | 27 | |
| 2,4-Dinitrophenol | 200 | 166 | | ug/Kg | | 83 | 20 - 141 | 7 | 36 | |
| 4-Nitrophenol | 200 | 186 | | ug/Kg | | 93 | 20 - 165 | 4 | 30 | |
| Dibenzofuran | 100 | 77.3 | | ug/Kg | | 77 | 72 - 109 | 4 | 30 | |
| 2,4-Dinitrotoluene | 100 | 82.5 | | ug/Kg | | 83 | 68 - 121 | 7 | 30 | |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: LCSD 580-169198/3-A
Matrix: Solid
Analysis Batch: 170329

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 169198

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | |
|-----------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| | | | | | | | | RPD | Limit |
| Diethyl phthalate | 100 | 98.4 | ^ | ug/Kg | | 98 | 73 - 116 | 11 | 26 |
| 4-Chlorophenyl phenyl ether | 100 | 76.2 | | ug/Kg | | 76 | 75 - 108 | 10 | 30 |
| Fluorene | 100 | 79.6 | | ug/Kg | | 80 | 70 - 121 | 8 | 30 |
| 4-Nitroaniline | 100 | 74.3 | | ug/Kg | | 74 | 58 - 108 | 1 | 32 |
| 4,6-Dinitro-2-methylphenol | 200 | 157 | | ug/Kg | | 79 | 48 - 130 | 7 | 22 |
| N-Nitrosodiphenylamine | 100 | 78.9 | | ug/Kg | | 79 | 73 - 115 | 7 | 30 |
| 4-Bromophenyl phenyl ether | 100 | 87.1 | | ug/Kg | | 87 | 68 - 122 | 2 | 30 |
| Hexachlorobenzene | 100 | 83.4 | | ug/Kg | | 83 | 66 - 117 | 3 | 30 |
| Pentachlorophenol | 200 | 140 | | ug/Kg | | 70 | 45 - 117 | 12 | 23 |
| Phenanthrene | 100 | 88.1 | | ug/Kg | | 88 | 73 - 106 | 2 | 28 |
| Anthracene | 100 | 85.7 | | ug/Kg | | 86 | 73 - 116 | 4 | 27 |
| Carbazole | 100 | 102 | | ug/Kg | | 102 | 76 - 135 | 3 | 30 |
| Di-n-butyl phthalate | 100 | 107 | | ug/Kg | | 107 | 66 - 140 | 5 | 30 |
| Fluoranthene | 100 | 93.8 | | ug/Kg | | 94 | 73 - 125 | 6 | 30 |
| Pyrene | 100 | 94.7 | | ug/Kg | | 95 | 70 - 120 | 5 | 30 |
| Butyl benzyl phthalate | 100 | 120 | | ug/Kg | | 120 | 69 - 142 | 6 | 30 |
| 3,3'-Dichlorobenzidine | 200 | 119 | | ug/Kg | | 60 | 20 - 103 | 5 | 60 |
| Benzo[a]anthracene | 100 | 96.9 | | ug/Kg | | 97 | 76 - 119 | 4 | 27 |
| Chrysene | 100 | 90.2 | | ug/Kg | | 90 | 75 - 114 | 6 | 26 |
| Bis(2-ethylhexyl) phthalate | 100 | 115 | | ug/Kg | | 115 | 62 - 144 | 4 | 30 |
| Di-n-octyl phthalate | 100 | 108 | | ug/Kg | | 108 | 65 - 141 | 2 | 30 |
| Benzo[b]fluoranthene | 100 | 94.1 | | ug/Kg | | 94 | 63 - 132 | 1 | 30 |
| Benzo[k]fluoranthene | 100 | 87.1 | | ug/Kg | | 87 | 63 - 119 | 5 | 30 |
| Benzo[a]pyrene | 100 | 85.7 | | ug/Kg | | 86 | 72 - 117 | 5 | 30 |
| Indeno[1,2,3-cd]pyrene | 100 | 89.6 | | ug/Kg | | 90 | 56 - 127 | 5 | 29 |
| Dibenz(a,h)anthracene | 100 | 93.6 | | ug/Kg | | 94 | 56 - 134 | 1 | 30 |
| Benzo[g,h,i]perylene | 100 | 93.1 | | ug/Kg | | 93 | 55 - 139 | 1 | 28 |
| N-Nitrosodimethylamine | 100 | 73.3 | J | ug/Kg | | 73 | 38 - 133 | 3 | 30 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|----------------------|----------------|----------------|-------------|
| 2-Fluorophenol | 101 | | 36 - 145 |
| Phenol-d5 | 93 | | 38 - 149 |
| 2,4,6-Tribromophenol | 90 | | 28 - 143 |
| Nitrobenzene-d5 | 80 | | 38 - 141 |
| 2-Fluorobiphenyl | 79 | | 42 - 140 |
| Terphenyl-d14 | 105 | | 42 - 151 |

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

Lab Sample ID: MB 580-169531/1-A
Matrix: Solid
Analysis Batch: 169626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 169531

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Gasoline | ND | | 4.0 | 0.50 | mg/Kg | | 09/12/14 09:10 | 09/12/14 19:33 | 1 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: MB 580-169531/1-A
Matrix: Solid
Analysis Batch: 169626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 169531

| Surrogate | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 99 | | 50 - 150 | 09/12/14 09:10 | 09/12/14 19:33 | 1 |

Lab Sample ID: LCS 580-169531/2-A
Matrix: Solid
Analysis Batch: 169626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 169531

| Analyte | Spike Added | LCS LCS | | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|---------|-----------|-------|---|------|--------------|
| | | Result | Qualifier | | | | |
| Gasoline | 40.0 | 38.8 | | mg/Kg | | 97 | 68 - 120 |

| Surrogate | LCS LCS | | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 106 | | 50 - 150 |

Lab Sample ID: LCSD 580-169531/3-A
Matrix: Solid
Analysis Batch: 169626

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 169531

| Analyte | Spike Added | LCSD LCSD | | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|----------|-------------|-----------|-----------|-------|---|------|--------------|-----|-------|
| | | Result | Qualifier | | | | | | |
| Gasoline | 40.0 | 40.0 | | mg/Kg | | 100 | 68 - 120 | 3 | 25 |

| Surrogate | LCSD LCSD | | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 105 | | 50 - 150 |

Method: 8082 - PCBs

Lab Sample ID: MB 580-169804/1-A
Matrix: Solid
Analysis Batch: 169887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 169804

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Arochlor 1016 | ND | | 0.010 | 0.0032 | mg/Kg | | 09/15/14 13:42 | 09/16/14 15:42 | 1 |
| Arochlor 1221 | ND | | 0.011 | 0.0080 | mg/Kg | | 09/15/14 13:42 | 09/16/14 15:42 | 1 |
| Arochlor 1232 | ND | | 0.011 | 0.0070 | mg/Kg | | 09/15/14 13:42 | 09/16/14 15:42 | 1 |
| Arochlor 1242 | ND | | 0.010 | 0.0021 | mg/Kg | | 09/15/14 13:42 | 09/16/14 15:42 | 1 |
| Arochlor 1248 | ND | | 0.010 | 0.0030 | mg/Kg | | 09/15/14 13:42 | 09/16/14 15:42 | 1 |
| Arochlor 1254 | ND | | 0.010 | 0.0021 | mg/Kg | | 09/15/14 13:42 | 09/16/14 15:42 | 1 |
| Arochlor 1260 | ND | | 0.010 | 0.0030 | mg/Kg | | 09/15/14 13:42 | 09/16/14 15:42 | 1 |

| Surrogate | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| Tetrachloro-m-xylene | 88 | | 45 - 135 | 09/15/14 13:42 | 09/16/14 15:42 | 1 |
| DCB Decachlorobiphenyl | 102 | | 50 - 140 | 09/15/14 13:42 | 09/16/14 15:42 | 1 |

Lab Sample ID: LCS 580-169804/4-A
Matrix: Solid
Analysis Batch: 169887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 169804

| Analyte | Spike Added | LCS LCS | | Unit | D | %Rec | %Rec. Limits |
|---------------|-------------|---------|-----------|-------|---|------|--------------|
| | | Result | Qualifier | | | | |
| Arochlor 1016 | 0.100 | 0.103 | | mg/Kg | | 103 | 40 - 140 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

Method: 8082 - PCBs (Continued)

Lab Sample ID: LCS 580-169804/4-A

Matrix: Solid

Analysis Batch: 169887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 169804

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|------------------|----------------------|---------------|-------|---|------|--------------|
| Arochlor 1260 | 0.100 | 0.109 | | mg/Kg | | 109 | 60 - 130 |
| Surrogate | %Recovery | LCS Qualifier | Limits | | | | |
| Tetrachloro-m-xylene | 93 | | 45 - 135 | | | | |
| DCB Decachlorobiphenyl | 108 | | 50 - 140 | | | | |

Lab Sample ID: LCSD 580-169804/5-A

Matrix: Solid

Analysis Batch: 169887

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 169804

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|------------------------|------------------|-----------------------|----------------|-------|---|------|--------------|-----|-------|
| Arochlor 1016 | 0.100 | 0.104 | | mg/Kg | | 104 | 40 - 140 | 1 | 20 |
| Arochlor 1260 | 0.100 | 0.109 | | mg/Kg | | 109 | 60 - 130 | 0 | 20 |
| Surrogate | %Recovery | LCSD Qualifier | Limits | | | | | | |
| Tetrachloro-m-xylene | 93 | | 45 - 135 | | | | | | |
| DCB Decachlorobiphenyl | 108 | | 50 - 140 | | | | | | |

Lab Sample ID: 580-45295-1 MS

Matrix: Solid

Analysis Batch: 169887

Client Sample ID: PS-TS-01-20140909-S

Prep Type: Total/NA

Prep Batch: 169804

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|------------------|---------------------|---------------|-----------|--------------|-------|---|------|--------------|
| Arochlor 1016 | ND | | 0.145 | 0.117 | | mg/Kg | ☼ | 81 | 40 - 140 |
| Arochlor 1260 | ND | | 0.145 | 0.138 | | mg/Kg | ☼ | 95 | 60 - 130 |
| Surrogate | %Recovery | MS Qualifier | Limits | | | | | | |
| Tetrachloro-m-xylene | 78 | | 45 - 135 | | | | | | |
| DCB Decachlorobiphenyl | 77 | | 50 - 140 | | | | | | |

Lab Sample ID: 580-45295-1 MSD

Matrix: Solid

Analysis Batch: 169887

Client Sample ID: PS-TS-01-20140909-S

Prep Type: Total/NA

Prep Batch: 169804

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|------------------------|------------------|----------------------|---------------|------------|---------------|-------|---|------|--------------|-----|-------|
| Arochlor 1016 | ND | | 0.147 | 0.120 | | mg/Kg | ☼ | 82 | 40 - 140 | 2 | 20 |
| Arochlor 1260 | ND | | 0.147 | 0.135 | | mg/Kg | ☼ | 92 | 60 - 130 | 3 | 20 |
| Surrogate | %Recovery | MSD Qualifier | Limits | | | | | | | | |
| Tetrachloro-m-xylene | 70 | | 45 - 135 | | | | | | | | |
| DCB Decachlorobiphenyl | 73 | | 50 - 140 | | | | | | | | |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: MB 580-169589/1-A
Matrix: Solid
Analysis Batch: 169857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 169589

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------------|--------------|----------|-----|-------|---|----------------|----------------|---------|
| #2 Diesel (C10-C24) | ND | | 25 | 5.7 | mg/Kg | | 09/12/14 13:02 | 09/16/14 10:52 | 1 |
| Motor Oil (>C24-C36) | ND | | 50 | 9.1 | mg/Kg | | 09/12/14 13:02 | 09/16/14 10:52 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| <i>o</i> -Terphenyl | 102 | | 50 - 150 | | | | 09/12/14 13:02 | 09/16/14 10:52 | 1 |

Lab Sample ID: LCS 580-169589/2-A
Matrix: Solid
Analysis Batch: 169857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 169589

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------------------|---------------|---------------|---------------|-------|---|------|----------|
| #2 Diesel (C10-C24) | 500 | 527 | | mg/Kg | | 105 | 70 - 125 |
| Motor Oil (>C24-C36) | 502 | 528 | | mg/Kg | | 105 | 64 - 127 |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | |
| <i>o</i> -Terphenyl | 105 | | 50 - 150 | | | | |

Lab Sample ID: LCSD 580-169589/3-A
Matrix: Solid
Analysis Batch: 169857

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 169589

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|----------------------|----------------|----------------|----------------|-------|---|------|----------|-----|-------|
| #2 Diesel (C10-C24) | 500 | 525 | | mg/Kg | | 105 | 70 - 125 | 0 | 16 |
| Motor Oil (>C24-C36) | 502 | 524 | | mg/Kg | | 104 | 64 - 127 | 1 | 17 |
| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits | | | | | | |
| <i>o</i> -Terphenyl | 105 | | 50 - 150 | | | | | | |

Lab Sample ID: 580-45295-1 DU
Matrix: Solid
Analysis Batch: 169857

Client Sample ID: PS-TS-01-20140909-S
Prep Type: Total/NA
Prep Batch: 169589

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit | |
|----------------------|---------------|------------------|-----------|--------------|-------|---|-----|-------|--|
| #2 Diesel (C10-C24) | 1300 | Y | 1220 | Y | mg/Kg | ☼ | 4 | 35 | |
| Motor Oil (>C24-C36) | 6000 | Y | 5930 | Y | mg/Kg | ☼ | 1 | 35 | |
| Surrogate | DU %Recovery | DU Qualifier | Limits | | | | | | |
| <i>o</i> -Terphenyl | 105 | | 50 - 150 | | | | | | |

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 580-169254/24-A
Matrix: Solid
Analysis Batch: 169408

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 169254

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|-------|-------|---|----------------|----------------|---------|
| Arsenic | ND | | 0.10 | 0.036 | mg/Kg | | 09/10/14 07:45 | 09/10/14 14:21 | 2 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: MB 580-169254/24-A

Matrix: Solid

Analysis Batch: 169408

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 169254

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|-------|--------|-------|---|----------------|----------------|---------|
| Lead | 0.00268 | J | 0.040 | 0.0026 | mg/Kg | | 09/10/14 07:45 | 09/10/14 14:21 | 2 |
| Antimony | ND | | 0.040 | 0.0084 | mg/Kg | | 09/10/14 07:45 | 09/10/14 14:21 | 2 |
| Beryllium | ND | | 0.040 | 0.0070 | mg/Kg | | 09/10/14 07:45 | 09/10/14 14:21 | 2 |
| Cadmium | ND | | 0.040 | 0.0016 | mg/Kg | | 09/10/14 07:45 | 09/10/14 14:21 | 2 |
| Chromium | ND | | 0.040 | 0.023 | mg/Kg | | 09/10/14 07:45 | 09/10/14 14:21 | 2 |
| Copper | ND | | 0.080 | 0.020 | mg/Kg | | 09/10/14 07:45 | 09/10/14 14:21 | 2 |
| Nickel | ND | | 0.10 | 0.016 | mg/Kg | | 09/10/14 07:45 | 09/10/14 14:21 | 2 |
| Selenium | ND | | 0.14 | 0.040 | mg/Kg | | 09/10/14 07:45 | 09/10/14 14:21 | 2 |
| Silver | ND | | 0.040 | 0.0024 | mg/Kg | | 09/10/14 07:45 | 09/10/14 14:21 | 2 |
| Thallium | ND | | 0.10 | 0.026 | mg/Kg | | 09/10/14 07:45 | 09/10/14 14:21 | 2 |
| Zinc | ND | | 0.40 | 0.22 | mg/Kg | | 09/10/14 07:45 | 09/10/14 14:21 | 2 |

Lab Sample ID: LCS 580-169254/25-A

Matrix: Solid

Analysis Batch: 169408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 169254

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|-------|---|------|--------------|
| Arsenic | 200 | 209 | | mg/Kg | | 105 | 80 - 120 |
| Lead | 50.0 | 52.3 | | mg/Kg | | 105 | 80 - 120 |
| Antimony | 150 | 161 | | mg/Kg | | 107 | 80 - 120 |
| Beryllium | 5.00 | 5.28 | | mg/Kg | | 106 | 80 - 120 |
| Cadmium | 5.00 | 5.53 | | mg/Kg | | 111 | 80 - 120 |
| Chromium | 20.0 | 20.1 | | mg/Kg | | 101 | 80 - 120 |
| Copper | 25.0 | 25.5 | | mg/Kg | | 102 | 80 - 120 |
| Nickel | 50.0 | 50.8 | | mg/Kg | | 102 | 80 - 120 |
| Selenium | 200 | 216 | | mg/Kg | | 108 | 80 - 120 |
| Silver | 30.0 | 32.1 | | mg/Kg | | 107 | 80 - 120 |
| Thallium | 200 | 205 | | mg/Kg | | 102 | 80 - 120 |
| Zinc | 200 | 209 | | mg/Kg | | 104 | 80 - 120 |

Lab Sample ID: LCSD 580-169254/26-A

Matrix: Solid

Analysis Batch: 169408

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 169254

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Arsenic | 200 | 208 | | mg/Kg | | 104 | 80 - 120 | 0 | 20 |
| Lead | 50.0 | 51.8 | | mg/Kg | | 104 | 80 - 120 | 1 | 20 |
| Antimony | 150 | 161 | | mg/Kg | | 107 | 80 - 120 | 0 | 20 |
| Beryllium | 5.00 | 5.20 | | mg/Kg | | 104 | 80 - 120 | 2 | 20 |
| Cadmium | 5.00 | 5.49 | | mg/Kg | | 110 | 80 - 120 | 1 | 20 |
| Chromium | 20.0 | 20.1 | | mg/Kg | | 101 | 80 - 120 | 0 | 20 |
| Copper | 25.0 | 24.8 | | mg/Kg | | 99 | 80 - 120 | 3 | 20 |
| Nickel | 50.0 | 49.8 | | mg/Kg | | 100 | 80 - 120 | 2 | 20 |
| Selenium | 200 | 214 | | mg/Kg | | 107 | 80 - 120 | 1 | 20 |
| Silver | 30.0 | 31.9 | | mg/Kg | | 106 | 80 - 120 | 1 | 20 |
| Thallium | 200 | 204 | | mg/Kg | | 102 | 80 - 120 | 0 | 20 |
| Zinc | 200 | 206 | | mg/Kg | | 103 | 80 - 120 | 1 | 20 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

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

Lab Sample ID: LCSSRM 580-169254/27-A

Matrix: Solid

Analysis Batch: 169408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 169254

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|---------------|------------------|-------|---|-------|--------------|
| Arsenic | 139 | 136 | | mg/Kg | | 97.7 | 70.4 - 140.3 |
| Lead | 133 | 129 | | mg/Kg | | 96.6 | 72.9 - 127.8 |
| Antimony | 88.8 | 156 | | mg/Kg | | 175.7 | 22.0 - 259.0 |
| Beryllium | 96.1 | 93.8 | | mg/Kg | | 97.6 | 74.5 - 125.9 |
| Cadmium | 96.0 | 93.4 | | mg/Kg | | 97.3 | 73.2 - 127.1 |
| Chromium | 136 | 130 | | mg/Kg | | 95.9 | 69.9 - 129.4 |
| Copper | 168 | 158 | | mg/Kg | | 93.8 | 75.6 - 125.0 |
| Nickel | 123 | 115 | | mg/Kg | | 93.5 | 73.1 - 128.5 |
| Selenium | 177 | 176 | | mg/Kg | | 99.3 | 67.8 - 131.6 |
| Silver | 40.2 | 39.6 | | mg/Kg | | 98.4 | 66.2 - 134.1 |
| Thallium | 138 | 133 | | mg/Kg | | 96.5 | 68.1 - 131.9 |
| Zinc | 189 | 182 | | mg/Kg | | 96.4 | 69.8 - 130.7 |

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-170055/21-A

Matrix: Solid

Analysis Batch: 170151

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 170055

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | ND | | 0.017 | 0.0053 | mg/Kg | | 09/17/14 15:58 | 09/18/14 10:13 | 1 |

Lab Sample ID: LCS 580-170055/22-A

Matrix: Solid

Analysis Batch: 170151

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170055

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Mercury | 0.167 | 0.143 | | mg/Kg | | 86 | 80 - 120 |

Lab Sample ID: LCSD 580-170055/23-A

Matrix: Solid

Analysis Batch: 170151

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170055

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Mercury | 0.167 | 0.143 | | mg/Kg | | 86 | 80 - 120 | 0 | 20 |

TestAmerica Seattle

QC Sample Results

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 580-170055/24-A ^10

Matrix: Solid

Analysis Batch: 170151

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170055

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|---------------|------------------|-------|---|-------|--------------|
| Mercury | 12.9 | 13.4 | | mg/Kg | | 104.2 | 51.2 - 148.1 |

Method: 9060_PSEP - TOC (Puget Sound)

Lab Sample ID: MB 580-170721/3

Matrix: Solid

Analysis Batch: 170721

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 | | | 09/24/14 14:53 | 1 |

Lab Sample ID: LCS 580-170721/4

Matrix: Solid

Analysis Batch: 170721

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 | 3590 | | mg/Kg | | 126 | 27.8 - 170 |

Lab Sample ID: LCSD 580-170721/5

Matrix: Solid

Analysis Batch: 170721

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 | 3610 | | mg/Kg | | 127 | 27.8 - 170 | 1 | 35 |

Method: SM 2540B - Solids, Total

Lab Sample ID: 580-45295-1 DU

Matrix: Solid

Analysis Batch: 169407

Client Sample ID: PS-TS-01-20140909-S

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|--------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Solids | 57 | | 57.9 | | % | | 2 | 20 |

Lab Chronicle

Client: Leidos, Inc.
Project/Site: NPDES Supply Support/WA

TestAmerica Job ID: 580-45295-1

Client Sample ID: PS-TS-01-20140909-S

Lab Sample ID: 580-45295-1

Date Collected: 09/09/14 13:50

Matrix: Solid

Date Received: 09/09/14 16:15

Percent Solids: 66.7

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 170378 | 09/09/14 15:30 | JMB | TAL SEA |
| Total/NA | Analysis | 8260B | | 1 | 170368 | 09/22/14 19:05 | AS | TAL SEA |
| Total/NA | Prep | 5035 | | | 170481 | 09/23/14 08:06 | CRH | TAL SEA |
| Total/NA | Analysis | 8260C | | 1 | 170500 | 09/23/14 17:43 | PS1 | TAL SEA |
| Total/NA | Prep | 3550B | | | 169198 | 09/12/14 11:00 | ALL | TAL SEA |
| Total/NA | Analysis | 8270D | | 20 | 170249 | 09/19/14 20:33 | ERB | TAL SEA |
| Total/NA | Prep | 5035 | | | 169531 | 09/12/14 09:10 | CRH | TAL SEA |
| Total/NA | Analysis | NWTPH-Gx | | 1 | 169626 | 09/12/14 22:50 | IWH | TAL SEA |
| Total/NA | Prep | 3550B | | | 169804 | 09/15/14 13:42 | ALL | TAL SEA |
| Total/NA | Analysis | 8082 | | 1 | 169887 | 09/16/14 18:58 | ALC | TAL SEA |
| Total/NA | Prep | 3546 | | | 169589 | 09/12/14 13:02 | CTC | TAL SEA |
| Total/NA | Analysis | NWTPH-Dx | | 1 | 169857 | 09/16/14 11:46 | JJP | TAL SEA |
| Total/NA | Prep | 3050B | | | 169254 | 09/10/14 07:45 | KJV | TAL SEA |
| Total/NA | Analysis | 6020 | | 10 | 169408 | 09/10/14 15:28 | FCW | TAL SEA |
| Total/NA | Prep | 3050B | | | 169254 | 09/10/14 07:45 | KJV | TAL SEA |
| Total/NA | Analysis | 6020 | | 1000 | 169408 | 09/10/14 15:41 | FCW | TAL SEA |
| Total/NA | Prep | 7471A | | | 170055 | 09/17/14 15:58 | PAB | TAL SEA |
| Total/NA | Analysis | 7471A | | 1 | 170151 | 09/18/14 11:18 | FCW | TAL SEA |
| Total/NA | Analysis | 9060_PSEP | | 1 | 170721 | 09/24/14 16:33 | JLS | TAL SEA |
| Total/NA | Analysis | D 2216 | | 1 | 169410 | 09/11/14 09:16 | KJV | TAL SEA |
| Total/NA | Analysis | SM 2540B | | 1 | 169407 | 09/11/14 08:54 | TAA | TAL SEA |
| Total/NA | Analysis | PSEP Plumb 1981 | | 1 | 169920 | 09/16/14 14:25 | HJM | 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 Supply Support/WA

TestAmerica Job ID: 580-45295-1

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 Supply Support/WA

TestAmerica Job ID: 580-45295-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|---------------------|--------|----------------|----------------|
| 580-45295-1 | PS-TS-01-20140909-S | Solid | 09/09/14 13:50 | 09/09/14 16:15 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client: Leidos Client Contact: Christine Neuner Date: 9/9/14 Chain of Custody Number: 24946

Address: 18912 N Creek Pkwy Ste 101 Telephone Number (Area Code)/Fax Number: 206.300.2144 Lab Number: 45295 Page: 2 of 2

City: Bothell State: WA Zip Code: 98011 Sampler: Cory Wilson Lab Contact: Kris Allen

Project Name and Location (State): NPDES Sampling Support / WA Billing Contact:

Contract/Purchase Order/Quote No. Matrix: Containers & Preservatives:

| Sample ID and Location/Description (Containers for each sample may be combined on one line) | Date | Time | Matrix | | | | | Containers & Preservatives | | | | | | | Analysis (Attach list if more space is needed) | Special Instructions/ Conditions of Receipt | | | | | | | | |
|--|---------------|-------------|--------|---------|-------------------------------------|------|---------|----------------------------|------|-----|------|---------------|----------|-------------|--|--|------------------|------------------|----------------|-----------------|------------------|------------------------|----------------|--|
| | | | Air | Aqueous | Sed. | Soil | Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/ NaOH | MeOH | | | | | | | | | | | |
| <u>PS-TS-01-20140909-S</u> | <u>9/9/14</u> | <u>1350</u> | | | <input checked="" type="checkbox"/> | | | | | | | | <u>1</u> | <u>8082</u> | <u>8270D/8270D</u> | <u>NWTPH-Dx</u> | <u>EPA 206.8</u> | <u>EPA 7471A</u> | <u>SM2540B</u> | <u>NWTPH-Gx</u> | <u>EPA 8260C</u> | <u>Plumb 1981/9060</u> | <u>PSEP-PS</u> | |

QC Requirements (Specify):

Sample Disposal: Return To Client Disposal By Lab

QC Requirements (Specify):

Sample Disposal: Return To Client Disposal By Lab

Turn Around Time Required (business days): 24 Hours 48 Hours 5 Days 10 Days 15 Days Other

1. Relinquished By Sign/Print Cory Wilson Date 9/9/14 Time 1500

2. Relinquished By Sign/Print Francisco Lamy, Jr. Date 9/9/14 Time 1500

3. Relinquished By Sign/Print Date Time

Comments:



Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 580-45295-1

Login Number: 45295

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 | Received same day of collection; chilling process has begun. |
| 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? | True | |
| 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. | N/A | |
| 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 | |

September 26, 2014

Vista Project I.D.: 1400659

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 September 10, 2014. This sample set was analyzed on a standard turn-around time, under your Project Name 'NPDES Sampling Support'.

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 Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAC for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 1400659

Case Narrative

Sample Condition on Receipt:

Two aqueous samples and one sediment sample were received within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The jar of sample "PS-TS-01-20140909-S" was received broken. The sample was contained and, as instructed, was transferred to a new jar.

Analytical Notes:

EPA Method 1613

These 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 above the quantitation limits 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

These 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. No analytes were detected above the sample quantitation limit in the Method Blank. 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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Sample Inventory Report

| Vista Sample ID | Client Sample ID | Sampled | Received | Components/Containers |
|----------------------------|-----------------------------|-----------------|-----------------|--|
| 1400659-01 | PS-TS-01-20140909-W | 09-Sep-14 11:15 | 10-Sep-14 09:29 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1400659-02 | PS-OS-01-20140909-W | 09-Sep-14 12:20 | 10-Sep-14 09:29 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1400659-03 | PS-TS-01-20140909-S | 09-Sep-14 13:50 | 10-Sep-14 09:29 | Amber Glass, 250mL |

ANALYTICAL RESULTS

| Sample ID: Method Blank | | | | | | | EPA Method 1613B | | | | |
|--|--------------|------|---|------|-------|--|---|------|----------|------------|--|
| Matrix: Aqueous Sample Size: 1.00 L | | | QC Batch: B4I0066 Date Extracted: 19-Sep-2014 8:01 | | | Lab Sample: B4I0066-BLK1 Date Analyzed: 22-Sep-14 17:34 Column: ZB-5MS Analyst: MAS | | | | | |
| Analyte | Conc. (pg/L) | RL | DL | EMPC | MDL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers | |
| 2,3,7,8-TCDD | ND | 5.00 | 1.20 | | 0.943 | | IS 13C-2,3,7,8-TCDD | 83.4 | 25 - 164 | | |
| 1,2,3,7,8-PeCDD | ND | 25.0 | 1.37 | | 4.51 | | 13C-1,2,3,7,8-PeCDD | 84.2 | 25 - 181 | | |
| 1,2,3,4,7,8-HxCDD | ND | 25.0 | 1.05 | | 2.21 | | 13C-1,2,3,4,7,8-HxCDD | 83.5 | 32 - 141 | | |
| 1,2,3,6,7,8-HxCDD | ND | 25.0 | 1.11 | | 1.93 | | 13C-1,2,3,6,7,8-HxCDD | 81.1 | 28 - 130 | | |
| 1,2,3,7,8,9-HxCDD | ND | 25.0 | 1.08 | | 2.02 | | 13C-1,2,3,7,8,9-HxCDD | 79.2 | 32 - 141 | | |
| 1,2,3,4,6,7,8-HpCDD | ND | 25.0 | 2.29 | | 2.98 | | 13C-1,2,3,4,6,7,8-HpCDD | 71.2 | 23 - 140 | | |
| OCDD | ND | 50.0 | 4.53 | | 3.57 | | 13C-OCDD | 72.1 | 17 - 157 | | |
| 2,3,7,8-TCDF | ND | 5.00 | 0.950 | | 0.984 | | 13C-2,3,7,8-TCDF | 85.4 | 24 - 169 | | |
| 1,2,3,7,8-PeCDF | ND | 25.0 | 0.768 | | 2.50 | | 13C-1,2,3,7,8-PeCDF | 80.9 | 24 - 185 | | |
| 2,3,4,7,8-PeCDF | ND | 25.0 | 0.793 | | 1.73 | | 13C-2,3,4,7,8-PeCDF | 80.7 | 21 - 178 | | |
| 1,2,3,4,7,8-HxCDF | ND | 25.0 | 0.690 | | 1.36 | | 13C-1,2,3,4,7,8-HxCDF | 84.5 | 26 - 152 | | |
| 1,2,3,6,7,8-HxCDF | ND | 25.0 | 0.710 | | 1.56 | | 13C-1,2,3,6,7,8-HxCDF | 70.5 | 26 - 123 | | |
| 2,3,4,6,7,8-HxCDF | ND | 25.0 | 0.438 | | 2.05 | | 13C-2,3,4,6,7,8-HxCDF | 75.9 | 28 - 136 | | |
| 1,2,3,7,8,9-HxCDF | ND | 25.0 | 0.634 | | 1.34 | | 13C-1,2,3,7,8,9-HxCDF | 73.2 | 29 - 147 | | |
| 1,2,3,4,6,7,8-HpCDF | ND | 25.0 | 1.54 | | 1.46 | | 13C-1,2,3,4,6,7,8-HpCDF | 71.8 | 28 - 143 | | |
| 1,2,3,4,7,8,9-HpCDF | ND | 25.0 | 0.755 | | 1.75 | | 13C-1,2,3,4,7,8,9-HpCDF | 72.6 | 26 - 138 | | |
| OCDF | ND | 50.0 | 2.48 | | 2.98 | | 13C-OCDF | 62.8 | 17 - 157 | | |
| | | | | | | | CRS 37Cl-2,3,7,8-TCDD | 92.1 | 35 - 197 | | |
| | | | | | | | Toxic Equivalent Quotient (TEQ) Data | | | | |
| | | | | | | | TEQMinWHO2005Dioxin | | 0.00 | | |
| TOTALS | | | | | | | | | | | |
| Total TCDD | ND | | 1.20 | | | | | | | | |
| Total PeCDD | ND | | 1.37 | | | | | | | | |
| Total HxCDD | ND | | 1.82 | | | | | | | | |
| Total HpCDD | ND | | 2.29 | | | | | | | | |
| Total TCDF | ND | | 0.950 | | | | | | | | |
| Total PeCDF | ND | | 1.50 | | | | | | | | |
| Total HxCDF | ND | | 0.839 | | | | | | | | |
| Total HpCDF | ND | | 1.53 | | | | | | | | |

DL - Sample specific estimated detection limit

MDL - Method detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

RL - Reporting 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 Sample Size: 1.00 L | | QC Batch: B4I0066 Date Extracted: 19-Sep-2014 8:01 | | Lab Sample: B4I0066-BS1 Date Analyzed: 22-Sep-14 15:09 Column: ZB-5MS Analyst: MAS | | | |
| Analyte | Amt Found (pg/L) | Spike Amt | %R | Limits | Labeled Standard | %R | LCL-UCL |
| 2,3,7,8-TCDD | 198 | 200 | 99.1 | 67 - 158 | IS 13C-2,3,7,8-TCDD | 80.1 | 20 - 175 |
| 1,2,3,7,8-PeCDD | 994 | 1000 | 99.4 | 70 - 142 | 13C-1,2,3,7,8-PeCDD | 84.4 | 21 - 227 |
| 1,2,3,4,7,8-HxCDD | 970 | 1000 | 97.0 | 70 - 164 | 13C-1,2,3,4,7,8-HxCDD | 76.5 | 21 - 193 |
| 1,2,3,6,7,8-HxCDD | 1010 | 1000 | 101 | 76 - 134 | 13C-1,2,3,6,7,8-HxCDD | 76.7 | 25 - 163 |
| 1,2,3,7,8,9-HxCDD | 982 | 1000 | 98.2 | 64 - 162 | 13C-1,2,3,7,8,9-HxCDD | 74.6 | 21 - 193 |
| 1,2,3,4,6,7,8-HpCDD | 1030 | 1000 | 103 | 70 - 140 | 13C-1,2,3,4,6,7,8-HpCDD | 67.4 | 26 - 166 |
| OCDD | 1930 | 2000 | 96.5 | 78 - 144 | 13C-OCDD | 68.3 | 13 - 199 |
| 2,3,7,8-TCDF | 206 | 200 | 103 | 75 - 158 | 13C-2,3,7,8-TCDF | 84.4 | 22 - 152 |
| 1,2,3,7,8-PeCDF | 1020 | 1000 | 102 | 80 - 134 | 13C-1,2,3,7,8-PeCDF | 84.4 | 21 - 192 |
| 2,3,4,7,8-PeCDF | 1060 | 1000 | 106 | 68 - 160 | 13C-2,3,4,7,8-PeCDF | 83.0 | 13 - 328 |
| 1,2,3,4,7,8-HxCDF | 959 | 1000 | 95.9 | 72 - 134 | 13C-1,2,3,4,7,8-HxCDF | 84.2 | 19 - 202 |
| 1,2,3,6,7,8-HxCDF | 1000 | 1000 | 100 | 84 - 130 | 13C-1,2,3,6,7,8-HxCDF | 69.7 | 21 - 159 |
| 2,3,4,6,7,8-HxCDF | 962 | 1000 | 96.2 | 70 - 156 | 13C-2,3,4,6,7,8-HxCDF | 74.4 | 22 - 176 |
| 1,2,3,7,8,9-HxCDF | 970 | 1000 | 97.0 | 78 - 130 | 13C-1,2,3,7,8,9-HxCDF | 73.1 | 17 - 205 |
| 1,2,3,4,6,7,8-HpCDF | 891 | 1000 | 89.1 | 82 - 122 | 13C-1,2,3,4,6,7,8-HpCDF | 70.8 | 21 - 158 |
| 1,2,3,4,7,8,9-HpCDF | 909 | 1000 | 90.9 | 78 - 138 | 13C-1,2,3,4,7,8,9-HpCDF | 71.3 | 20 - 186 |
| OCDF | 2040 | 2000 | 102 | 63 - 170 | 13C-OCDF | 60.2 | 13 - 199 |
| | | | | | CRS 37Cl-2,3,7,8-TCDD | 93.5 | 31 - 191 |

LCL-UCL - Lower control limit - upper control limit

Sample ID: PS-TS-01-20140909-W **EPA Method 1613B**

| | | |
|-----------------------------------|---------------------|--|
| Client Data | Sample Data | Laboratory Data |
| Name: Leidos | Matrix: Aqueous | Lab Sample: 1400659-01 Date Received: 10-Sep-2014 9:29 |
| Project: NPDES Sampling Support | Sample Size: 1.01 L | QC Batch: B4I0066 Date Extracted: 19-Sep-2014 8:01 |
| Date Collected: 09-Sep-2014 11:15 | | Date Analyzed: 22-Sep-14 21:36 Column: ZB-5MS Analyst: MAS |

| Analyte | Conc. (pg/L) | RL | DL | EMPC | MDL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|---------------------|--------------|------|-------|------|-------|------------|-------------------------|------|----------|------------|
| 2,3,7,8-TCDD | ND | 4.96 | 1.13 | | 0.943 | | IS 13C-2,3,7,8-TCDD | 68.9 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 24.8 | 1.27 | | 4.51 | | 13C-1,2,3,7,8-PeCDD | 73.7 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 24.8 | 1.68 | | 2.21 | | 13C-1,2,3,4,7,8-HxCDD | 67.6 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 24.8 | 1.74 | | 1.93 | | 13C-1,2,3,6,7,8-HxCDD | 65.6 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 24.8 | 1.67 | | 2.02 | | 13C-1,2,3,7,8,9-HxCDD | 67.2 | 32 - 141 | |
| 1,2,3,4,6,7,8-HpCDD | 2.15 | 24.8 | | | 2.98 | J | 13C-1,2,3,4,6,7,8-HpCDD | 60.9 | 23 - 140 | |
| OCDD | 10.9 | 49.6 | | | 3.57 | J | 13C-OCDD | 72.8 | 17 - 157 | |
| 2,3,7,8-TCDF | ND | 4.96 | 1.20 | | 0.984 | | 13C-2,3,7,8-TCDF | 72.2 | 24 - 169 | |
| 1,2,3,7,8-PeCDF | ND | 24.8 | 0.894 | | 2.50 | | 13C-1,2,3,7,8-PeCDF | 65.8 | 24 - 185 | |
| 2,3,4,7,8-PeCDF | ND | 24.8 | 0.842 | | 1.73 | | 13C-2,3,4,7,8-PeCDF | 65.3 | 21 - 178 | |
| 1,2,3,4,7,8-HxCDF | ND | 24.8 | 1.52 | | 1.36 | | 13C-1,2,3,4,7,8-HxCDF | 68.4 | 26 - 152 | |
| 1,2,3,6,7,8-HxCDF | ND | 24.8 | 1.44 | | 1.56 | | 13C-1,2,3,6,7,8-HxCDF | 59.5 | 26 - 123 | |
| 2,3,4,6,7,8-HxCDF | ND | 24.8 | 0.768 | | 2.05 | | 13C-2,3,4,6,7,8-HxCDF | 62.4 | 28 - 136 | |
| 1,2,3,7,8,9-HxCDF | ND | 24.8 | 0.988 | | 1.34 | | 13C-1,2,3,7,8,9-HxCDF | 64.2 | 29 - 147 | |
| 1,2,3,4,6,7,8-HpCDF | ND | 24.8 | 1.07 | | 1.46 | | 13C-1,2,3,4,6,7,8-HpCDF | 64.6 | 28 - 143 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 24.8 | 0.401 | | 1.75 | | 13C-1,2,3,4,7,8,9-HpCDF | 64.0 | 26 - 138 | |
| OCDF | ND | 49.6 | 2.14 | | 2.98 | | 13C-OCDF | 64.0 | 17 - 157 | |
| | | | | | | | CRS 37Cl-2,3,7,8-TCDD | 95.2 | 35 - 197 | |

| | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|---------------------|--------|--|--|
| Toxic Equivalent Quotient (TEQ) Data | | | | | | | | | | | |
| | | | | | | | | TEQMinWHO2005Dioxin | 0.0248 | | |

| | | | | | | | | | | |
|---------------|------|--|------|------|--|--|--|--|--|--|
| TOTALS | | | | | | | | | | |
| Total TCDD | ND | | 1.13 | | | | | | | |
| Total PeCDD | ND | | 2.76 | | | | | | | |
| Total HxCDD | ND | | 2.84 | | | | | | | |
| Total HpCDD | 2.15 | | | 5.02 | | | | | | |
| Total TCDF | ND | | 1.20 | | | | | | | |
| Total PeCDF | ND | | 1.61 | | | | | | | |
| Total HxCDF | ND | | 1.65 | | | | | | | |
| Total HpCDF | ND | | 1.12 | | | | | | | |

DL - Sample specific estimated detection limit MDL - Method detection limit LCL-UCL- Lower control limit - upper control limit
 EMPC - Estimated maximum possible concentration RL - Reporting limit Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PS-OS-01-20140909-W **EPA Method 1613B**

| | | |
|-----------------------------------|---------------------|--|
| Client Data | Sample Data | Laboratory Data |
| Name: Leidos | Matrix: Aqueous | Lab Sample: 1400659-02 Date Received: 10-Sep-2014 9:29 |
| Project: NPDES Sampling Support | Sample Size: 1.02 L | QC Batch: B4I0066 Date Extracted: 19-Sep-2014 8:01 |
| Date Collected: 09-Sep-2014 12:20 | | Date Analyzed: 22-Sep-14 22:25 Column: ZB-5MS Analyst: MAS |

| Analyte | Conc. (pg/L) | RL | DL | EMPC | MDL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|---------------------|--------------|------|-------|------|-------|------------|-------------------------|------|----------|------------|
| 2,3,7,8-TCDD | ND | 4.89 | 1.58 | | 0.943 | | IS 13C-2,3,7,8-TCDD | 72.2 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 24.4 | | 1.83 | 4.51 | | 13C-1,2,3,7,8-PeCDD | 79.2 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | 3.63 | 24.4 | | | 2.21 | J | 13C-1,2,3,4,7,8-HxCDD | 70.7 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | 6.04 | 24.4 | | | 1.93 | J | 13C-1,2,3,6,7,8-HxCDD | 71.3 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | 10.1 | 24.4 | | | 2.02 | J | 13C-1,2,3,7,8,9-HxCDD | 70.0 | 32 - 141 | |
| 1,2,3,4,6,7,8-HpCDD | 261 | 24.4 | | | 2.98 | | 13C-1,2,3,4,6,7,8-HpCDD | 62.8 | 23 - 140 | |
| OCDD | 3450 | 48.9 | | | 3.57 | | 13C-OCDD | 77.4 | 17 - 157 | |
| 2,3,7,8-TCDF | ND | 4.89 | 0.977 | | 0.984 | | 13C-2,3,7,8-TCDF | 75.5 | 24 - 169 | |
| 1,2,3,7,8-PeCDF | ND | 24.4 | 1.39 | | 2.50 | | 13C-1,2,3,7,8-PeCDF | 72.9 | 24 - 185 | |
| 2,3,4,7,8-PeCDF | ND | 24.4 | 1.42 | | 1.73 | | 13C-2,3,4,7,8-PeCDF | 73.4 | 21 - 178 | |
| 1,2,3,4,7,8-HxCDF | ND | 24.4 | | 1.56 | 1.36 | | 13C-1,2,3,4,7,8-HxCDF | 75.0 | 26 - 152 | |
| 1,2,3,6,7,8-HxCDF | 2.26 | 24.4 | | | 1.56 | J | 13C-1,2,3,6,7,8-HxCDF | 60.6 | 26 - 123 | |
| 2,3,4,6,7,8-HxCDF | ND | 24.4 | | 2.37 | 2.05 | | 13C-2,3,4,6,7,8-HxCDF | 65.5 | 28 - 136 | |
| 1,2,3,7,8,9-HxCDF | ND | 24.4 | 1.19 | | 1.34 | | 13C-1,2,3,7,8,9-HxCDF | 66.9 | 29 - 147 | |
| 1,2,3,4,6,7,8-HpCDF | 38.4 | 24.4 | | | 1.46 | | 13C-1,2,3,4,6,7,8-HpCDF | 65.1 | 28 - 143 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 24.4 | 1.41 | | 1.75 | | 13C-1,2,3,4,7,8,9-HpCDF | 67.8 | 26 - 138 | |
| OCDF | 115 | 48.9 | | | 2.98 | | 13C-OCDF | 66.5 | 17 - 157 | |
| | | | | | | | CRS 37Cl-2,3,7,8-TCDD | 88.2 | 35 - 197 | |

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin 6.27

| TOTALS | | | | | | | | | | |
|---------------|------|--|------|------|--|--|--|--|--|--|
| Total TCDD | ND | | 1.85 | | | | | | | |
| Total PeCDD | ND | | | 1.83 | | | | | | |
| Total HxCDD | 60.2 | | | | | | | | | |
| Total HpCDD | 600 | | | | | | | | | |
| Total TCDF | 1.17 | | | | | | | | | |
| Total PeCDF | 9.60 | | | | | | | | | |
| Total HxCDF | 33.1 | | | 37.1 | | | | | | |
| Total HpCDF | 83.1 | | | | | | | | | |

DL - Sample specific estimated detection limit MDL - Method detection limit LCL-UCL- Lower control limit - upper control limit
 EMPC - Estimated maximum possible concentration RL - Reporting 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: B4I0053 Date Extracted: 15-Sep-2014 15:17 | | | Lab Sample: B4I0053-BLK1 Date Analyzed: 17-Sep-14 18:50 Column: ZB-5MS Analyst: MAS | | | | | | |
| Analyte | Conc. (pg/g) | RL | DL | EMPC | MDL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers | |
| 2,3,7,8-TCDD | ND | 0.500 | 0.0418 | | 0.0778 | | IS 13C-2,3,7,8-TCDD | 89.0 | 25 - 164 | | |
| 1,2,3,7,8-PeCDD | ND | 2.50 | 0.0860 | | 0.230 | | 13C-1,2,3,7,8-PeCDD | 104 | 25 - 181 | | |
| 1,2,3,4,7,8-HxCDD | ND | 2.50 | 0.0736 | | 0.231 | | 13C-1,2,3,4,7,8-HxCDD | 96.1 | 32 - 141 | | |
| 1,2,3,6,7,8-HxCDD | ND | 2.50 | 0.0750 | | 0.126 | | 13C-1,2,3,6,7,8-HxCDD | 95.2 | 28 - 130 | | |
| 1,2,3,7,8,9-HxCDD | ND | 2.50 | 0.0796 | | 0.173 | | 13C-1,2,3,7,8,9-HxCDD | 94.2 | 32 - 141 | | |
| 1,2,3,4,6,7,8-HpCDD | ND | 2.50 | 0.263 | | 0.263 | | 13C-1,2,3,4,6,7,8-HpCDD | 88.8 | 23 - 140 | | |
| OCDD | 0.222 | 5.00 | | | 0.167 | J | 13C-OCDD | 91.6 | 17 - 157 | | |
| 2,3,7,8-TCDF | ND | 0.500 | 0.0820 | | 0.0289 | | 13C-2,3,7,8-TCDF | 89.9 | 24 - 169 | | |
| 1,2,3,7,8-PeCDF | ND | 2.50 | 0.0379 | | 0.254 | | 13C-1,2,3,7,8-PeCDF | 94.2 | 24 - 185 | | |
| 2,3,4,7,8-PeCDF | ND | 2.50 | 0.0344 | | 0.211 | | 13C-2,3,4,7,8-PeCDF | 99.3 | 21 - 178 | | |
| 1,2,3,4,7,8-HxCDF | ND | 2.50 | 0.0285 | | 0.154 | | 13C-1,2,3,4,7,8-HxCDF | 108 | 26 - 152 | | |
| 1,2,3,6,7,8-HxCDF | ND | 2.50 | 0.0345 | | 0.195 | | 13C-1,2,3,6,7,8-HxCDF | 86.2 | 26 - 123 | | |
| 2,3,4,6,7,8-HxCDF | ND | 2.50 | 0.0252 | | 0.0805 | | 13C-2,3,4,6,7,8-HxCDF | 92.6 | 28 - 136 | | |
| 1,2,3,7,8,9-HxCDF | ND | 2.50 | 0.0337 | | 0.195 | | 13C-1,2,3,7,8,9-HxCDF | 96.2 | 29 - 147 | | |
| 1,2,3,4,6,7,8-HpCDF | ND | 2.50 | 0.0672 | | 0.230 | | 13C-1,2,3,4,6,7,8-HpCDF | 97.7 | 28 - 143 | | |
| 1,2,3,4,7,8,9-HpCDF | ND | 2.50 | 0.0339 | | 0.211 | | 13C-1,2,3,4,7,8,9-HpCDF | 106 | 26 - 138 | | |
| OCDF | ND | 5.00 | 0.244 | | 0.470 | | 13C-OCDF | 92.9 | 17 - 157 | | |
| | | | | | | | CRS 37Cl-2,3,7,8-TCDD | 87.9 | 35 - 197 | | |
| | | | | | | | Toxic Equivalent Quotient (TEQ) Data | | | | |
| | | | | | | | TEQMinWHO2005Dioxin | | 0.0000666 | | |
| TOTALS | | | | | | | | | | | |
| Total TCDD | ND | | 0.0418 | | | | | | | | |
| Total PeCDD | ND | | 0.149 | | | | | | | | |
| Total HxCDD | ND | | 0.116 | | | | | | | | |
| Total HpCDD | 0.0942 | | | | | | | | | | |
| Total TCDF | ND | | 0.0820 | | | | | | | | |
| Total PeCDF | ND | | 0.0505 | | | | | | | | |
| Total HxCDF | ND | | 0.0366 | | | | | | | | |
| Total HpCDF | ND | | 0.0657 | | | | | | | | |

DL - Sample specific 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: OPR | | | | | EPA Method 1613B | | |
|--------------------------------------|------------------|--|------|---|-------------------------|------|----------|
| Matrix: Solid Sample Size: 10.0 g | | QC Batch: B4I0053 Date Extracted: 15-Sep-2014 15:17 | | Lab Sample: B4I0053-BS1 Date Analyzed: 17-Sep-14 16:25 Column: ZB-5MS Analyst: MAS | | | |
| Analyte | Amt Found (pg/g) | Spike Amt | %R | Limits | Labeled Standard | %R | LCL-UCL |
| 2,3,7,8-TCDD | 19.3 | 20.0 | 96.6 | 67 - 158 | IS 13C-2,3,7,8-TCDD | 54.2 | 20 - 175 |
| 1,2,3,7,8-PeCDD | 96.0 | 100 | 96.0 | 70 - 142 | 13C-1,2,3,7,8-PeCDD | 63.8 | 21 - 227 |
| 1,2,3,4,7,8-HxCDD | 92.5 | 100 | 92.5 | 70 - 164 | 13C-1,2,3,4,7,8-HxCDD | 57.3 | 21 - 193 |
| 1,2,3,6,7,8-HxCDD | 91.3 | 100 | 91.3 | 76 - 134 | 13C-1,2,3,6,7,8-HxCDD | 59.8 | 25 - 163 |
| 1,2,3,7,8,9-HxCDD | 91.0 | 100 | 91.0 | 64 - 162 | 13C-1,2,3,7,8,9-HxCDD | 57.8 | 21 - 193 |
| 1,2,3,4,6,7,8-HpCDD | 99.1 | 100 | 99.1 | 70 - 140 | 13C-1,2,3,4,6,7,8-HpCDD | 53.2 | 26 - 166 |
| OCDD | 180 | 200 | 89.8 | 78 - 144 | 13C-OCDD | 54.4 | 13 - 199 |
| 2,3,7,8-TCDF | 19.0 | 20.0 | 94.8 | 75 - 158 | 13C-2,3,7,8-TCDF | 52.2 | 22 - 152 |
| 1,2,3,7,8-PeCDF | 96.2 | 100 | 96.2 | 80 - 134 | 13C-1,2,3,7,8-PeCDF | 55.5 | 21 - 192 |
| 2,3,4,7,8-PeCDF | 96.6 | 100 | 96.6 | 68 - 160 | 13C-2,3,4,7,8-PeCDF | 58.1 | 13 - 328 |
| 1,2,3,4,7,8-HxCDF | 92.8 | 100 | 92.8 | 72 - 134 | 13C-1,2,3,4,7,8-HxCDF | 63.9 | 19 - 202 |
| 1,2,3,6,7,8-HxCDF | 92.8 | 100 | 92.8 | 84 - 130 | 13C-1,2,3,6,7,8-HxCDF | 53.3 | 21 - 159 |
| 2,3,4,6,7,8-HxCDF | 91.1 | 100 | 91.1 | 70 - 156 | 13C-2,3,4,6,7,8-HxCDF | 55.2 | 22 - 176 |
| 1,2,3,7,8,9-HxCDF | 93.0 | 100 | 93.0 | 78 - 130 | 13C-1,2,3,7,8,9-HxCDF | 55.5 | 17 - 205 |
| 1,2,3,4,6,7,8-HpCDF | 88.2 | 100 | 88.2 | 82 - 122 | 13C-1,2,3,4,6,7,8-HpCDF | 57.5 | 21 - 158 |
| 1,2,3,4,7,8,9-HpCDF | 85.6 | 100 | 85.6 | 78 - 138 | 13C-1,2,3,4,7,8,9-HpCDF | 60.0 | 20 - 186 |
| OCDF | 186 | 200 | 93.2 | 63 - 170 | 13C-OCDF | 53.8 | 13 - 199 |
| | | | | | CRS 37Cl-2,3,7,8-TCDD | 56.3 | 31 - 191 |

LCL-UCL - Lower control limit - upper control limit

Sample ID: PS-TS-01-20140909-S **EPA Method 1613B**

| | | |
|-----------------------------------|---------------------|--|
| Client Data | Sample Data | Laboratory Data |
| Name: Leidos | Matrix: Sediment | Lab Sample: 1400659-03 Date Received: 10-Sep-2014 9:29 |
| Project: NPDES Sampling Support | Sample Size: 13.4 g | QC Batch: B4I0053 Date Extracted: 15-Sep-2014 15:17 |
| Date Collected: 09-Sep-2014 13:50 | % Solids: 75.4 | Date Analyzed: 17-Sep-14 20:26 Column: ZB-5MS Analyst: MAS |
| | | 18-Sep-14 13:45 Column: DB-225 Analyst: MAS |

| Analyte | Conc. (pg/g) | RL | DL | EMPC | MDL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|---------------------|--------------|-------|-------|-------|--------|------------|-------------------------|------|----------|------------|
| 2,3,7,8-TCDD | ND | 0.496 | | 0.205 | 0.0778 | | IS 13C-2,3,7,8-TCDD | 90.3 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | 0.970 | 2.48 | | | 0.230 | J | 13C-1,2,3,7,8-PeCDD | 116 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | 1.46 | 2.48 | | | 0.231 | J | 13C-1,2,3,4,7,8-HxCDD | 92.3 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | 5.78 | 2.48 | | | 0.126 | | 13C-1,2,3,6,7,8-HxCDD | 95.9 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | 3.65 | 2.48 | | | 0.173 | | 13C-1,2,3,7,8,9-HxCDD | 90.8 | 32 - 141 | |
| 1,2,3,4,6,7,8-HpCDD | 187 | 2.48 | | | 0.263 | | 13C-1,2,3,4,6,7,8-HpCDD | 85.8 | 23 - 140 | |
| OCDD | 1200 | 4.96 | | | 0.167 | B | 13C-OCDD | 91.3 | 17 - 157 | |
| 2,3,7,8-TCDF | 0.861 | 0.496 | | | 0.0289 | | 13C-2,3,7,8-TCDF | 90.7 | 24 - 169 | |
| 1,2,3,7,8-PeCDF | 0.518 | 2.48 | | | 0.254 | J | 13C-1,2,3,7,8-PeCDF | 98.4 | 24 - 185 | |
| 2,3,4,7,8-PeCDF | 1.34 | 2.48 | | | 0.211 | J | 13C-2,3,4,7,8-PeCDF | 105 | 21 - 178 | |
| 1,2,3,4,7,8-HxCDF | 1.29 | 2.48 | | | 0.154 | J | 13C-1,2,3,4,7,8-HxCDF | 105 | 26 - 152 | |
| 1,2,3,6,7,8-HxCDF | 1.33 | 2.48 | | | 0.195 | J | 13C-1,2,3,6,7,8-HxCDF | 82.5 | 26 - 123 | |
| 2,3,4,6,7,8-HxCDF | 1.52 | 2.48 | | | 0.0805 | J | 13C-2,3,4,6,7,8-HxCDF | 91.3 | 28 - 136 | |
| 1,2,3,7,8,9-HxCDF | ND | 2.48 | 0.205 | | 0.195 | | 13C-1,2,3,7,8,9-HxCDF | 92.1 | 29 - 147 | |
| 1,2,3,4,6,7,8-HpCDF | 18.5 | 2.48 | | | 0.230 | | 13C-1,2,3,4,6,7,8-HpCDF | 92.7 | 28 - 143 | |
| 1,2,3,4,7,8,9-HpCDF | 1.16 | 2.48 | | | 0.211 | J | 13C-1,2,3,4,7,8,9-HpCDF | 101 | 26 - 138 | |
| OCDF | 40.2 | 4.96 | | | 0.470 | | 13C-OCDF | 87.2 | 17 - 157 | |
| | | | | | | | CRS 37Cl-2,3,7,8-TCDD | 91.9 | 35 - 197 | |

| Toxic Equivalent Quotient (TEQ) Data | |
|---|------|
| TEQMinWHO2005Dioxin | 5.42 |

| TOTALS | | | | | | | | | | |
|---------------|------|--|--|------|--|---|--|--|--|--|
| Total TCDD | 3.60 | | | 4.70 | | | | | | |
| Total PeCDD | 9.12 | | | 9.30 | | | | | | |
| Total HxCDD | 59.3 | | | | | | | | | |
| Total HpCDD | 386 | | | | | B | | | | |
| Total TCDF | 16.3 | | | | | | | | | |
| Total PeCDF | 16.0 | | | | | | | | | |
| Total HxCDF | 23.9 | | | | | | | | | |
| Total HpCDF | 39.2 | | | | | | | | | |

DL - Sample specific 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: Method Blank

EPA Method 1668C

| | | |
|---------------------|----------------------------------|--|
| Matrix: Aqueous | QC Batch: B4I0047 | Lab Sample: B4I0047-BLK1 |
| Sample Size: 1.00 L | Date Extracted: 15-Sep-2014 8:46 | Date Analyzed: 19-Sep-14 13:50 Column: ZB-1 Analyst: DMS |

| Analyte | Conc. (pg/L) | RL | DL | EMPC | MDL | Qualifiers | Analyte | Conc. (pg/L) | RL | DL | EMPC | MDL | Qualifiers |
|-----------------|--------------|------|-------|------|------|------------|------------|--------------|------|-------|------|-------|------------|
| PCB-1 | ND | 5.00 | 2.28 | | 1.21 | | PCB-43/49 | ND | 10.0 | 0.933 | | 3.38 | |
| PCB-2 | ND | 5.00 | 2.76 | | 1.75 | | PCB-44 | ND | 5.00 | 1.07 | | 2.48 | |
| PCB-3 | ND | 5.00 | 2.68 | | 1.49 | | PCB-45 | ND | 5.00 | 1.08 | | 1.96 | |
| PCB-4/10 | ND | 20.0 | 11.8 | | 5.64 | | PCB-46 | ND | 5.00 | 1.09 | | 2.49 | |
| PCB-5/8 | ND | 20.0 | 9.91 | | 3.59 | | PCB-47 | ND | 5.00 | 0.884 | | 4.42 | |
| PCB-6 | ND | 10.0 | 9.70 | | 3.10 | | PCB-48/75 | ND | 10.0 | 0.768 | | 2.09 | |
| PCB-7/9 | ND | 20.0 | 9.63 | | 6.22 | | PCB-50 | ND | 5.00 | 0.884 | | 1.40 | |
| PCB-11 | ND | 10.0 | | 9.13 | 3.86 | | PCB-51 | ND | 5.00 | 0.901 | | 1.42 | |
| PCB-12/13 | ND | 20.0 | 9.37 | | 5.01 | | PCB-52/69 | ND | 10.0 | 0.812 | | 3.64 | |
| PCB-14 | ND | 10.0 | 8.36 | | 3.98 | | PCB-53 | ND | 5.00 | 0.874 | | 1.12 | |
| PCB-15 | ND | 10.0 | 8.53 | | 2.53 | | PCB-54 | ND | 5.00 | 0.713 | | 1.51 | |
| PCB-16/32 | ND | 10.0 | 0.712 | | 2.87 | | PCB-55 | ND | 5.00 | 0.632 | | 1.19 | |
| PCB-17 | ND | 5.00 | 0.814 | | 1.37 | | PCB-56/60 | ND | 10.0 | 0.645 | | 2.19 | |
| PCB-18 | ND | 5.00 | | 1.18 | 2.57 | | PCB-57 | ND | 5.00 | 0.625 | | 0.857 | |
| PCB-19 | ND | 5.00 | 0.929 | | 2.38 | | PCB-58 | ND | 5.00 | 0.633 | | 1.81 | |
| PCB-20/21/33 | ND | 15.0 | 0.845 | | 10.3 | | PCB-61/70 | ND | 10.0 | 0.645 | | 2.40 | |
| PCB-22 | ND | 5.00 | 0.838 | | 3.17 | | PCB-62 | ND | 5.00 | 0.775 | | 1.46 | |
| PCB-23 | ND | 5.00 | 0.845 | | 1.35 | | PCB-63 | ND | 5.00 | 0.624 | | 0.696 | |
| PCB-24/27 | ND | 10.0 | 0.623 | | 3.16 | | PCB-65 | ND | 5.00 | 0.750 | | 0.953 | |
| PCB-25 | ND | 5.00 | 0.825 | | 3.34 | | PCB-66/76 | ND | 10.0 | 0.613 | | 2.82 | |
| PCB-26 | ND | 5.00 | 0.858 | | 2.19 | | PCB-67 | ND | 5.00 | 0.649 | | 1.22 | |
| PCB-28 | ND | 5.00 | 0.804 | | 2.90 | | PCB-68 | ND | 5.00 | 0.674 | | 1.24 | |
| PCB-29 | ND | 5.00 | 0.834 | | 1.60 | | PCB-73 | ND | 5.00 | 0.757 | | 1.56 | |
| PCB-30 | ND | 5.00 | 0.658 | | 2.09 | | PCB-74 | ND | 5.00 | 0.579 | | 1.53 | |
| PCB-31 | ND | 5.00 | 0.781 | | 4.29 | | PCB-77 | ND | 5.00 | 0.676 | | 1.34 | |
| PCB-34 | ND | 5.00 | 0.879 | | 2.34 | | PCB-78 | ND | 5.00 | 0.694 | | 0.990 | |
| PCB-35 | ND | 5.00 | 0.774 | | 1.65 | | PCB-79 | ND | 5.00 | 0.624 | | 1.60 | |
| PCB-36 | ND | 5.00 | 0.774 | | 2.69 | | PCB-80 | ND | 5.00 | 0.549 | | 1.98 | |
| PCB-37 | ND | 5.00 | 0.766 | | 1.92 | | PCB-81 | ND | 5.00 | 0.621 | | 2.34 | |
| PCB-38 | ND | 5.00 | 0.787 | | 1.56 | | PCB-82 | ND | 5.00 | 1.76 | | 1.69 | |
| PCB-39 | ND | 5.00 | 0.751 | | 2.60 | | PCB-83 | ND | 5.00 | 1.17 | | 1.32 | |
| PCB-40 | ND | 5.00 | 1.22 | | 3.08 | | PCB-84/92 | ND | 10.0 | 1.59 | | 3.38 | |
| PCB-41/64/71/72 | ND | 20.0 | 0.763 | | 5.57 | | PCB-85/116 | ND | 10.0 | 1.37 | | 2.83 | |
| PCB-42/59 | ND | 10.0 | 0.823 | | 2.84 | | PCB-86 | ND | 5.00 | 1.74 | | 2.34 | |

RL - Reporting limit

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

MDL - Method detection limit

Sample ID: Method Blank

EPA Method 1668C

| | | |
|---------------------|----------------------------------|--|
| Matrix: Aqueous | QC Batch: B4I0047 | Lab Sample: B4I0047-BLK1 |
| Sample Size: 1.00 L | Date Extracted: 15-Sep-2014 8:46 | Date Analyzed: 19-Sep-14 13:50 Column: ZB-1 Analyst: DMS |

| Analyte | Conc. (pg/L) | RL | DL | EMPC | MDL | Qualifiers | Analyte | Conc. (pg/L) | RL | DL | EMPC | MDL | Qualifiers |
|----------------|--------------|------|-------|------|-------|------------|-----------------|--------------|------|-------|------|-------|------------|
| PCB-87/117/125 | ND | 15.0 | 1.14 | | 3.79 | | PCB-133/142 | ND | 10.0 | 0.626 | | 2.19 | |
| PCB-88/91 | ND | 5.00 | 1.73 | | 3.25 | | PCB-134/143 | ND | 10.0 | 0.638 | | 2.40 | |
| PCB-89 | ND | 5.00 | 1.64 | | 1.84 | | PCB-135 | ND | 5.00 | 1.46 | | 2.90 | |
| PCB-90/101 | ND | 10.0 | 1.40 | | 1.92 | | PCB-136 | ND | 5.00 | 1.05 | | 2.89 | |
| PCB-93 | ND | 5.00 | 1.56 | | 1.47 | | PCB-137 | ND | 5.00 | 0.548 | | 2.08 | |
| PCB-94 | ND | 5.00 | 1.59 | | 1.91 | | PCB-138/163/164 | ND | 15.0 | 0.484 | | 2.68 | |
| PCB-95/98/102 | ND | 15.0 | 1.45 | | 6.58 | | PCB-139/149 | ND | 10.0 | 1.35 | | 7.87 | |
| PCB-96 | ND | 5.00 | 1.29 | | 2.16 | | PCB-140 | ND | 5.00 | 1.45 | | 3.52 | |
| PCB-97 | ND | 5.00 | 1.43 | | 1.24 | | PCB-141 | ND | 5.00 | 0.602 | | 1.15 | |
| PCB-99 | ND | 5.00 | 1.29 | | 1.94 | | PCB-144 | ND | 5.00 | 1.39 | | 3.22 | |
| PCB-100 | ND | 5.00 | 1.40 | | 2.03 | | PCB-145 | ND | 5.00 | 1.04 | | 1.73 | |
| PCB-103 | ND | 5.00 | 1.51 | | 2.28 | | PCB-146/165 | ND | 10.0 | 0.511 | | 1.91 | |
| PCB-104 | ND | 5.00 | 1.12 | | 0.931 | | PCB-147 | ND | 5.00 | 1.37 | | 3.62 | |
| PCB-105 | ND | 5.00 | 1.24 | | 2.21 | | PCB-148 | ND | 5.00 | 1.54 | | 1.68 | |
| PCB-106/118 | ND | 10.0 | 1.06 | | 2.44 | | PCB-150 | ND | 5.00 | 1.07 | | 1.14 | |
| PCB-107/109 | ND | 10.0 | 1.07 | | 1.98 | | PCB-151 | ND | 5.00 | 1.41 | | 3.59 | |
| PCB-108/112 | ND | 10.0 | 1.38 | | 1.86 | | PCB-152 | ND | 5.00 | 1.04 | | 1.82 | |
| PCB-110 | ND | 5.00 | 1.06 | | 1.94 | | PCB-153 | ND | 5.00 | 0.502 | | 1.83 | |
| PCB-111/115 | ND | 10.0 | 1.02 | | 0.768 | | PCB-154 | ND | 5.00 | 1.29 | | 2.78 | |
| PCB-113 | ND | 5.00 | 1.23 | | 1.31 | | PCB-155 | ND | 5.00 | 1.00 | | 1.45 | |
| PCB-114 | ND | 5.00 | 1.14 | | 1.81 | | PCB-156 | ND | 5.00 | 0.440 | | 1.74 | |
| PCB-119 | ND | 5.00 | 1.04 | | 0.949 | | PCB-157 | ND | 5.00 | 0.466 | | 1.17 | |
| PCB-120 | ND | 5.00 | 1.00 | | 1.01 | | PCB-158/160 | ND | 10.0 | 0.460 | | 1.99 | |
| PCB-121 | ND | 5.00 | 0.927 | | 1.94 | | PCB-159 | ND | 5.00 | 0.473 | | 1.20 | |
| PCB-122 | ND | 5.00 | 1.25 | | 1.84 | | PCB-166 | ND | 5.00 | 0.494 | | 0.920 | |
| PCB-123 | ND | 5.00 | 1.07 | | 1.35 | | PCB-167 | ND | 5.00 | 0.476 | | 1.65 | |
| PCB-124 | ND | 5.00 | 0.985 | | 1.79 | | PCB-168 | ND | 5.00 | 0.432 | | 0.933 | |
| PCB-126 | ND | 5.00 | 1.35 | | 2.05 | | PCB-169 | ND | 5.00 | 0.487 | | 1.12 | |
| PCB-127 | ND | 5.00 | 1.20 | | 0.808 | | PCB-170 | ND | 5.00 | 0.557 | | 1.38 | |
| PCB-128/162 | ND | 10.0 | 0.541 | | 1.68 | | PCB-171 | ND | 5.00 | 0.585 | | 1.61 | |
| PCB-129 | ND | 5.00 | 0.641 | | 1.11 | | PCB-172 | ND | 5.00 | 0.628 | | 1.46 | |
| PCB-130 | ND | 5.00 | 0.692 | | 2.21 | | PCB-173 | ND | 5.00 | 0.662 | | 1.49 | |
| PCB-131 | ND | 5.00 | 0.647 | | 1.46 | | PCB-174 | ND | 5.00 | 0.574 | | 1.42 | |
| PCB-132/161 | ND | 10.0 | 0.531 | | 2.34 | | PCB-175 | ND | 5.00 | 0.642 | | 3.15 | |

RL - Reporting limit

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

MDL - Method detection limit

Sample ID: Method Blank

EPA Method 1668C

| | | |
|---------------------|----------------------------------|--|
| Matrix: Aqueous | QC Batch: B410047 | Lab Sample: B410047-BLK1 |
| Sample Size: 1.00 L | Date Extracted: 15-Sep-2014 8:46 | Date Analyzed: 19-Sep-14 13:50 Column: ZB-1 Analyst: DMS |

| Analyte | Conc. (pg/L) | RL | DL | EMPC | MDL | Qualifiers | Analyte | Conc. (pg/L) | RL | DL | EMPC | MDL | Qualifiers |
|--------------|--------------|------|-------|------|-------|------------|---------------|--------------|------|-------|------|-----|------------|
| PCB-176 | ND | 5.00 | 0.456 | | 2.17 | | Total triCB | ND | 5.00 | | 1.18 | | |
| PCB-177 | ND | 5.00 | 0.619 | | 1.34 | | Total tetraCB | ND | 5.00 | 1.22 | | | |
| PCB-178 | ND | 5.00 | 0.664 | | 2.25 | | Total pentaCB | ND | 5.00 | 1.76 | | | |
| PCB-179 | ND | 5.00 | 0.477 | | 1.57 | | Total hexaCB | ND | 5.00 | 1.54 | | | |
| PCB-180 | ND | 5.00 | 0.538 | | 0.610 | | Total heptaCB | ND | 5.00 | 0.664 | | | |
| PCB-181 | ND | 5.00 | 0.564 | | 1.01 | | Total octaCB | ND | 5.00 | 1.04 | | | |
| PCB-182/187 | ND | 10.0 | 0.613 | | 6.20 | | Total nonaCB | ND | 5.00 | 0.953 | | | |
| PCB-183 | ND | 5.00 | 0.575 | | 3.29 | | DecaCB | ND | 5.00 | 0.897 | | | |
| PCB-184 | ND | 5.00 | 0.503 | | 1.25 | | Total PCB | ND | 10.0 | 2.76 | | | |
| PCB-185 | ND | 5.00 | 0.572 | | 1.47 | | | | | | | | |
| PCB-186 | ND | 5.00 | 0.487 | | 2.43 | | | | | | | | |
| PCB-188 | ND | 5.00 | 0.443 | | 1.08 | | | | | | | | |
| PCB-189 | ND | 5.00 | 0.405 | | 1.49 | | | | | | | | |
| PCB-190 | ND | 5.00 | 0.414 | | 1.70 | | | | | | | | |
| PCB-191 | ND | 5.00 | 0.459 | | 1.96 | | | | | | | | |
| PCB-192 | ND | 5.00 | 0.503 | | 1.69 | | | | | | | | |
| PCB-193 | ND | 5.00 | 0.464 | | 1.46 | | | | | | | | |
| PCB-194 | ND | 5.00 | 0.679 | | 1.71 | | | | | | | | |
| PCB-195 | ND | 5.00 | 0.705 | | 1.47 | | | | | | | | |
| PCB-196/203 | ND | 10.0 | 0.980 | | 6.35 | | | | | | | | |
| PCB-197 | ND | 5.00 | 0.706 | | 1.80 | | | | | | | | |
| PCB-198 | ND | 5.00 | 1.02 | | 3.78 | | | | | | | | |
| PCB-199 | ND | 5.00 | 1.04 | | 4.05 | | | | | | | | |
| PCB-200 | ND | 5.00 | 0.744 | | 1.75 | | | | | | | | |
| PCB-201 | ND | 5.00 | 0.687 | | 1.02 | | | | | | | | |
| PCB-202 | ND | 5.00 | 0.728 | | 1.55 | | | | | | | | |
| PCB-204 | ND | 5.00 | 0.762 | | 1.48 | | | | | | | | |
| PCB-205 | ND | 5.00 | 0.599 | | 1.53 | | | | | | | | |
| PCB-206 | ND | 5.00 | 0.953 | | 1.32 | | | | | | | | |
| PCB-207 | ND | 5.00 | 0.525 | | 1.51 | | | | | | | | |
| PCB-208 | ND | 5.00 | 0.501 | | 1.34 | | | | | | | | |
| PCB-209 | ND | 5.00 | 0.897 | | 1.86 | | | | | | | | |
| Total monoCB | ND | 5.00 | 2.76 | | | | | | | | | | |
| Total diCB | ND | 10.0 | | 9.13 | | | | | | | | | |

RL - Reporting limit

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

MDL - Method detection limit

Sample ID: Method Blank

EPA Method 1668C

| | | |
|---------------------|----------------------------------|--|
| Matrix: Aqueous | QC Batch: B4I0047 | Lab Sample: B4I0047-BLK1 |
| Sample Size: 1.00 L | Date Extracted: 15-Sep-2014 8:46 | Date Analyzed: 19-Sep-14 13:50 Column: ZB-1 Analyst: DMS |

| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|------|----------|------------|------------------|------|----------|------------|
| IS 13C-PCB-1 | 59.5 | 5 - 145 | | 13C-PCB-157 | 87.1 | 10 - 145 | |
| 13C-PCB-3 | 56.1 | 5 - 145 | | 13C-PCB-159 | 81.9 | 10 - 145 | |
| 13C-PCB-4 | 68.6 | 5 - 145 | | 13C-PCB-167 | 81.9 | 10 - 145 | |
| 13C-PCB-11 | 77.1 | 5 - 145 | | 13C-PCB-169 | 82.0 | 10 - 145 | |
| 13C-PCB-9 | 69.0 | 5 - 145 | | 13C-PCB-170 | 92.3 | 10 - 145 | |
| 13C-PCB-19 | 61.4 | 5 - 145 | | 13C-PCB-180 | 91.0 | 10 - 145 | |
| 13C-PCB-28 | 72.2 | 5 - 145 | | 13C-PCB-188 | 78.2 | 10 - 145 | |
| 13C-PCB-32 | 69.7 | 5 - 145 | | 13C-PCB-189 | 86.6 | 10 - 145 | |
| 13C-PCB-37 | 84.8 | 5 - 145 | | 13C-PCB-194 | 89.6 | 10 - 145 | |
| 13C-PCB-47 | 76.0 | 5 - 145 | | 13C-PCB-202 | 92.6 | 10 - 145 | |
| 13C-PCB-52 | 75.9 | 5 - 145 | | 13C-PCB-206 | 87.2 | 10 - 145 | |
| 13C-PCB-54 | 78.1 | 5 - 145 | | 13C-PCB-208 | 92.5 | 10 - 145 | |
| 13C-PCB-70 | 86.6 | 5 - 145 | | 13C-PCB-209 | 83.2 | 10 - 145 | |
| 13C-PCB-77 | 81.7 | 10 - 145 | | CRS 13C-PCB-79 | 90.9 | 10 - 145 | |
| 13C-PCB-80 | 87.9 | 10 - 145 | | 13C-PCB-178 | 98.8 | 10 - 145 | |
| 13C-PCB-81 | 83.7 | 10 - 145 | | | | | |
| 13C-PCB-95 | 81.9 | 10 - 145 | | | | | |
| 13C-PCB-97 | 86.9 | 10 - 145 | | | | | |
| 13C-PCB-101 | 82.4 | 10 - 145 | | | | | |
| 13C-PCB-104 | 75.0 | 10 - 145 | | | | | |
| 13C-PCB-105 | 66.6 | 10 - 145 | | | | | |
| 13C-PCB-114 | 70.3 | 10 - 145 | | | | | |
| 13C-PCB-118 | 87.7 | 10 - 145 | | | | | |
| 13C-PCB-123 | 87.7 | 10 - 145 | | | | | |
| 13C-PCB-126 | 67.5 | 10 - 145 | | | | | |
| 13C-PCB-127 | 70.3 | 10 - 145 | | | | | |
| 13C-PCB-138 | 86.6 | 10 - 145 | | | | | |
| 13C-PCB-141 | 86.1 | 10 - 145 | | | | | |
| 13C-PCB-153 | 82.5 | 10 - 145 | | | | | |
| 13C-PCB-155 | 81.4 | 10 - 145 | | | | | |
| 13C-PCB-156 | 85.2 | 10 - 145 | | | | | |

RL - Reporting limit

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

MDL - Method detection limit

Sample ID: OPR**EPA Method 1668C**Matrix: Aqueous
Sample Size: 1.00 LQC Batch: B4I0047
Date Extracted: 15-Sep-2014 8:46Lab Sample: B4I0047-BS1
Date Analyzed: 19-Sep-14 10:37 Column: ZB-1 Analyst: DMS

| Analyte | Amt Found (pg/L) | Spike Amt | %R | Limits | Labeled Standard | %R | LCL-UCL |
|-------------|------------------|-----------|------|----------|------------------|------|----------|
| PCB-1 | 1050 | 1000 | 105 | 60 - 135 | IS 13C-PCB-1 | 69.2 | 15 - 145 |
| PCB-3 | 1070 | 1000 | 107 | 60 - 135 | IS 13C-PCB-3 | 68.8 | 15 - 145 |
| PCB-4/10 | 4310 | 4000 | 108 | 60 - 135 | IS 13C-PCB-4 | 73.8 | 15 - 145 |
| PCB-15 | 2090 | 2000 | 104 | 60 - 135 | IS 13C-PCB-11 | 81.8 | 15 - 145 |
| PCB-19 | 1170 | 1000 | 117 | 60 - 135 | IS 13C-PCB-9 | 73.9 | 15 - 145 |
| PCB-37 | 810 | 1000 | 81.0 | 60 - 135 | IS 13C-PCB-19 | 72.2 | 15 - 145 |
| PCB-54 | 927 | 1000 | 92.7 | 60 - 135 | IS 13C-PCB-28 | 83.1 | 15 - 145 |
| PCB-77 | 969 | 1000 | 96.9 | 60 - 135 | IS 13C-PCB-32 | 77.6 | 15 - 145 |
| PCB-81 | 942 | 1000 | 94.2 | 60 - 135 | IS 13C-PCB-37 | 86.0 | 15 - 145 |
| PCB-104 | 1070 | 1000 | 107 | 60 - 135 | IS 13C-PCB-47 | 83.5 | 15 - 145 |
| PCB-105 | 1010 | 1000 | 101 | 60 - 135 | IS 13C-PCB-52 | 84.4 | 15 - 145 |
| PCB-106/118 | 2100 | 2000 | 105 | 60 - 135 | IS 13C-PCB-54 | 89.1 | 15 - 145 |
| PCB-114 | 1020 | 1000 | 102 | 60 - 135 | IS 13C-PCB-70 | 85.1 | 15 - 145 |
| PCB-123 | 1050 | 1000 | 105 | 60 - 135 | IS 13C-PCB-77 | 90.5 | 40 - 145 |
| PCB-126 | 1010 | 1000 | 101 | 60 - 135 | IS 13C-PCB-80 | 91.3 | 40 - 145 |
| PCB-155 | 1080 | 1000 | 108 | 60 - 135 | IS 13C-PCB-81 | 87.3 | 40 - 145 |
| PCB-156 | 1030 | 1000 | 103 | 60 - 135 | IS 13C-PCB-95 | 85.8 | 40 - 145 |
| PCB-157 | 1030 | 1000 | 103 | 60 - 135 | IS 13C-PCB-97 | 88.8 | 40 - 145 |
| PCB-167 | 1000 | 1000 | 100 | 60 - 135 | IS 13C-PCB-101 | 86.5 | 40 - 145 |
| PCB-169 | 1040 | 1000 | 104 | 60 - 135 | IS 13C-PCB-104 | 78.7 | 40 - 145 |
| PCB-188 | 1070 | 1000 | 107 | 60 - 135 | IS 13C-PCB-105 | 69.3 | 40 - 145 |
| PCB-189 | 1060 | 1000 | 106 | 60 - 135 | IS 13C-PCB-114 | 72.2 | 40 - 145 |
| PCB-202 | 1020 | 1000 | 102 | 60 - 135 | IS 13C-PCB-118 | 88.4 | 40 - 145 |
| PCB-205 | 1010 | 1000 | 101 | 60 - 135 | IS 13C-PCB-123 | 87.4 | 40 - 145 |
| PCB-206 | 1030 | 1000 | 103 | 60 - 135 | IS 13C-PCB-126 | 67.9 | 40 - 145 |
| PCB-208 | 1050 | 1000 | 105 | 60 - 135 | IS 13C-PCB-127 | 71.9 | 40 - 145 |
| PCB-209 | 1060 | 1000 | 106 | 60 - 135 | IS 13C-PCB-138 | 87.5 | 40 - 145 |
| | | | | | IS 13C-PCB-141 | 88.4 | 40 - 145 |
| | | | | | IS 13C-PCB-153 | 85.6 | 40 - 145 |
| | | | | | IS 13C-PCB-155 | 82.0 | 40 - 145 |
| | | | | | IS 13C-PCB-156 | 85.9 | 40 - 145 |
| | | | | | IS 13C-PCB-157 | 87.0 | 40 - 145 |
| | | | | | IS 13C-PCB-159 | 83.8 | 40 - 145 |
| | | | | | IS 13C-PCB-167 | 86.5 | 40 - 145 |
| | | | | | IS 13C-PCB-169 | 85.7 | 40 - 145 |
| | | | | | IS 13C-PCB-170 | 95.7 | 40 - 145 |
| | | | | | IS 13C-PCB-180 | 94.2 | 40 - 145 |
| | | | | | IS 13C-PCB-188 | 82.1 | 40 - 145 |
| | | | | | IS 13C-PCB-189 | 87.5 | 40 - 145 |
| | | | | | IS 13C-PCB-194 | 98.4 | 40 - 145 |

Sample ID: OPR

EPA Method 1668C

Matrix: Aqueous
Sample Size: 1.00 L

QC Batch: B4I0047
Date Extracted: 15-Sep-2014 8:46

Lab Sample: B4I0047-BS1
Date Analyzed: 19-Sep-14 10:37 Column: ZB-1 Analyst: DMS

| Analyte | Amt Found (pg/L) | Spike Amt | %R | Limits | Labeled Standard | %R | LCL-UCL |
|---------|------------------|-----------|----|--------|------------------|------|----------|
| | | | | | IS 13C-PCB-202 | 97.9 | 40 - 145 |
| | | | | | IS 13C-PCB-206 | 95.4 | 40 - 145 |
| | | | | | IS 13C-PCB-208 | 97.3 | 40 - 145 |
| | | | | | IS 13C-PCB-209 | 92.4 | 40 - 145 |
| | | | | | CRS 13C-PCB-79 | 103 | 40 - 145 |
| | | | | | CRS 13C-PCB-178 | 110 | 40 - 145 |

LCL-UCL - Lower control limit - upper control limit

Sample ID: PS-TS-01-20140909-W

EPA Method 1668C

| | | | | | | | | | | | | | |
|--------------------|------------------------|--|--|--------------------|---------|--|------------------------|---|--|-----------------|------------------|--|--|
| Client Data | | | | Sample Data | | | Laboratory Data | | | | | | |
| Name: | Leidos | | | Matrix: | Aqueous | | Lab Sample: | 1400659-01 | | Date Received: | 10-Sep-2014 9:29 | | |
| Project: | NPDES Sampling Support | | | Sample Size: | 1.03 L | | QC Batch: | B410047 | | Date Extracted: | 15-Sep-2014 8:46 | | |
| Date Collected: | 09-Sep-2014 11:15 | | | | | | Date Analyzed : | 19-Sep-14 15:59 Column: ZB-1 Analyst: DMS | | | | | |

| Analyte | Conc. (pg/L) | RL | DL | EMPC | MDL | Qualifiers | Analyte | Conc. (pg/L) | RL | DL | EMPC | MDL | Qualifiers |
|-----------------|--------------|------|-------|------|------|------------|----------------|--------------|------|-------|-------|-------|------------|
| PCB-1 | ND | 4.88 | 2.17 | | 1.21 | | PCB-44 | 10.2 | 4.88 | | | 2.48 | |
| PCB-2 | ND | 4.88 | 2.42 | | 1.75 | | PCB-45 | 1.93 | 4.88 | | | 1.96 | J |
| PCB-3 | ND | 4.88 | 2.35 | | 1.49 | | PCB-46 | ND | 4.88 | 1.20 | | 2.49 | |
| PCB-4/10 | ND | 19.5 | 8.67 | | 5.64 | | PCB-47 | 4.48 | 4.88 | | | 4.42 | J |
| PCB-5/8 | ND | 19.5 | 7.42 | | 3.59 | | PCB-48/75 | 2.12 | 9.75 | | | 2.09 | J |
| PCB-6 | ND | 9.75 | 7.26 | | 3.10 | | PCB-50 | ND | 4.88 | 1.02 | | 1.40 | |
| PCB-7/9 | ND | 19.5 | 7.23 | | 6.22 | | PCB-51 | ND | 4.88 | | 0.740 | 1.42 | |
| PCB-11 | 58.6 | 9.75 | | | 3.86 | | PCB-52/69 | 13.9 | 9.75 | | | 3.64 | |
| PCB-12/13 | ND | 19.5 | 7.07 | | 5.01 | | PCB-53 | 1.60 | 4.88 | | | 1.12 | J |
| PCB-14 | ND | 9.75 | 6.31 | | 3.98 | | PCB-54 | ND | 4.88 | 0.827 | | 1.51 | |
| PCB-15 | ND | 9.75 | 6.43 | | 2.53 | | PCB-55 | ND | 4.88 | 0.773 | | 1.19 | |
| PCB-16/32 | 8.18 | 9.75 | | | 2.87 | J | PCB-56/60 | 6.11 | 9.75 | | | 2.19 | J |
| PCB-17 | ND | 4.88 | | 3.59 | 1.37 | | PCB-57 | ND | 4.88 | 0.820 | | 0.857 | |
| PCB-18 | 9.86 | 4.88 | | | 2.57 | | PCB-58 | ND | 4.88 | 0.829 | | 1.81 | |
| PCB-19 | ND | 4.88 | 1.14 | | 2.38 | | PCB-61/70 | 14.0 | 9.75 | | | 2.40 | |
| PCB-20/21/33 | 4.34 | 14.6 | | | 10.3 | J | PCB-62 | ND | 4.88 | 0.844 | | 1.46 | |
| PCB-22 | 3.00 | 4.88 | | | 3.17 | J | PCB-63 | ND | 4.88 | 0.818 | | 0.696 | |
| PCB-23 | ND | 4.88 | 1.00 | | 1.35 | | PCB-65 | ND | 4.88 | 0.817 | | 0.953 | |
| PCB-24/27 | ND | 9.75 | 0.789 | | 3.16 | | PCB-66/76 | 6.72 | 9.75 | | | 2.82 | J |
| PCB-25 | ND | 4.88 | 0.979 | | 3.34 | | PCB-67 | ND | 4.88 | 0.851 | | 1.22 | |
| PCB-26 | 1.61 | 4.88 | | | 2.19 | J | PCB-68 | 0.949 | 4.88 | | | 1.24 | J |
| PCB-28 | 7.53 | 4.88 | | | 2.90 | | PCB-73 | ND | 4.88 | 0.833 | | 1.56 | |
| PCB-29 | ND | 4.88 | 0.989 | | 1.60 | | PCB-74 | 3.16 | 4.88 | | | 1.53 | J |
| PCB-30 | ND | 4.88 | 0.805 | | 2.09 | | PCB-77 | 2.42 | 4.88 | | | 1.34 | J |
| PCB-31 | 5.63 | 4.88 | | | 4.29 | | PCB-78 | ND | 4.88 | 0.766 | | 0.990 | |
| PCB-34 | ND | 4.88 | 1.04 | | 2.34 | | PCB-79 | ND | 4.88 | 0.764 | | 1.60 | |
| PCB-35 | ND | 4.88 | 1.01 | | 1.65 | | PCB-80 | ND | 4.88 | 0.672 | | 1.98 | |
| PCB-36 | ND | 4.88 | 1.01 | | 2.69 | | PCB-81 | ND | 4.88 | 0.686 | | 2.34 | |
| PCB-37 | 3.77 | 4.88 | | | 1.92 | J | PCB-82 | 5.76 | 4.88 | | | 1.69 | |
| PCB-38 | ND | 4.88 | 1.02 | | 1.56 | | PCB-83 | ND | 4.88 | 1.30 | | 1.32 | |
| PCB-39 | ND | 4.88 | 0.976 | | 2.60 | | PCB-84/92 | 16.0 | 9.75 | | | 3.38 | |
| PCB-40 | 2.38 | 4.88 | | | 3.08 | J | PCB-85/116 | ND | 9.75 | | 5.07 | 2.83 | |
| PCB-41/64/71/72 | 9.61 | 19.5 | | | 5.57 | J | PCB-86 | ND | 4.88 | 1.94 | | 2.34 | |
| PCB-42/59 | 2.99 | 9.75 | | | 2.84 | J | PCB-87/117/125 | 14.3 | 14.6 | | | 3.79 | J |
| PCB-43/49 | 7.21 | 9.75 | | | 3.38 | J | PCB-88/91 | 5.40 | 4.88 | | | 3.25 | |

RL - Reporting limit

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

MDL - Method detection limit

Sample ID: PS-TS-01-20140909-W

EPA Method 1668C

| | | | | | | | | | | | | | |
|--------------------|------------------------|--|--|--------------------|---------|--|------------------------|---|--|-----------------|------------------|--|--|
| Client Data | | | | Sample Data | | | Laboratory Data | | | | | | |
| Name: | Leidos | | | Matrix: | Aqueous | | Lab Sample: | 1400659-01 | | Date Received: | 10-Sep-2014 9:29 | | |
| Project: | NPDES Sampling Support | | | Sample Size: | 1.03 L | | QC Batch: | B410047 | | Date Extracted: | 15-Sep-2014 8:46 | | |
| Date Collected: | 09-Sep-2014 11:15 | | | | | | Date Analyzed : | 19-Sep-14 15:59 Column: ZB-1 Analyst: DMS | | | | | |

| Analyte | Conc. (pg/L) | RL | DL | EMPC | MDL | Qualifiers | Analyte | Conc. (pg/L) | RL | DL | EMPC | MDL | Qualifiers |
|---------------|--------------|------|------|------|-------|------------|-----------------|--------------|------|-------|------|-------|------------|
| PCB-89 | ND | 4.88 | 1.78 | | 1.84 | | PCB-136 | 7.19 | 4.88 | | | 2.89 | |
| PCB-90/101 | 42.0 | 9.75 | | | 1.92 | | PCB-137 | 2.67 | 4.88 | | | 2.08 | J |
| PCB-93 | ND | 4.88 | 1.81 | | 1.47 | | PCB-138/163/164 | 57.9 | 14.6 | | | 2.68 | |
| PCB-94 | ND | 4.88 | 1.85 | | 1.91 | | PCB-139/149 | 48.4 | 9.75 | | | 7.87 | |
| PCB-95/98/102 | 28.5 | 14.6 | | | 6.58 | | PCB-140 | ND | 4.88 | 1.31 | | 3.52 | |
| PCB-96 | ND | 4.88 | 1.43 | | 2.16 | | PCB-141 | 13.8 | 4.88 | | | 1.15 | |
| PCB-97 | 10.8 | 4.88 | | | 1.24 | | PCB-144 | 2.97 | 4.88 | | | 3.22 | J |
| PCB-99 | 14.5 | 4.88 | | | 1.94 | | PCB-145 | ND | 4.88 | 0.938 | | 1.73 | |
| PCB-100 | ND | 4.88 | 1.56 | | 2.03 | | PCB-146/165 | 7.86 | 9.75 | | | 1.91 | J |
| PCB-103 | ND | 4.88 | 1.67 | | 2.28 | | PCB-147 | 0.771 | 4.88 | | | 3.62 | J |
| PCB-104 | ND | 4.88 | 1.24 | | 0.931 | | PCB-148 | ND | 4.88 | 1.38 | | 1.68 | |
| PCB-105 | ND | 4.88 | | 12.3 | 2.21 | | PCB-150 | ND | 4.88 | 0.963 | | 1.14 | |
| PCB-106/118 | 34.8 | 9.75 | | | 2.44 | | PCB-151 | 13.2 | 4.88 | | | 3.59 | |
| PCB-107/109 | ND | 9.75 | | 2.58 | 1.98 | | PCB-152 | ND | 4.88 | 0.933 | | 1.82 | |
| PCB-108/112 | ND | 9.75 | | 1.67 | 1.86 | | PCB-153 | 49.8 | 4.88 | | | 1.83 | |
| PCB-110 | 42.9 | 4.88 | | | 1.94 | | PCB-154 | ND | 4.88 | 1.16 | | 2.78 | |
| PCB-111/115 | ND | 9.75 | 1.13 | | 0.768 | | PCB-155 | ND | 4.88 | 0.903 | | 1.45 | |
| PCB-113 | 1.19 | 4.88 | | | 1.31 | J | PCB-156 | 4.98 | 4.88 | | | 1.74 | |
| PCB-114 | ND | 4.88 | 2.27 | | 1.81 | | PCB-157 | ND | 4.88 | 1.77 | | 1.17 | |
| PCB-119 | 0.829 | 4.88 | | | 0.949 | J | PCB-158/160 | 6.73 | 9.75 | | | 1.99 | J |
| PCB-120 | ND | 4.88 | 1.11 | | 1.01 | | PCB-159 | ND | 4.88 | 1.70 | | 1.20 | |
| PCB-121 | ND | 4.88 | 1.07 | | 1.94 | | PCB-166 | ND | 4.88 | 1.77 | | 0.920 | |
| PCB-122 | ND | 4.88 | 2.49 | | 1.84 | | PCB-167 | ND | 4.88 | | 2.53 | 1.65 | |
| PCB-123 | ND | 4.88 | 1.28 | | 1.35 | | PCB-168 | ND | 4.88 | 1.55 | | 0.933 | |
| PCB-124 | ND | 4.88 | | 1.81 | 1.79 | | PCB-169 | ND | 4.88 | 1.96 | | 1.12 | |
| PCB-126 | ND | 4.88 | 2.76 | | 2.05 | | PCB-170 | 18.7 | 4.88 | | | 1.38 | |
| PCB-127 | ND | 4.88 | 2.41 | | 0.808 | | PCB-171 | 4.78 | 4.88 | | | 1.61 | J |
| PCB-128/162 | 9.43 | 9.75 | | | 1.68 | J | PCB-172 | 3.87 | 4.88 | | | 1.46 | J |
| PCB-129 | 2.53 | 4.88 | | | 1.11 | J | PCB-173 | ND | 4.88 | 1.18 | | 1.49 | |
| PCB-130 | ND | 4.88 | | 3.65 | 2.21 | | PCB-174 | 20.9 | 4.88 | | | 1.42 | |
| PCB-131 | ND | 4.88 | 2.33 | | 1.46 | | PCB-175 | ND | 4.88 | 1.01 | | 3.15 | |
| PCB-132/161 | 15.5 | 9.75 | | | 2.34 | | PCB-176 | 2.87 | 4.88 | | | 2.17 | J |
| PCB-133/142 | 1.63 | 9.75 | | | 2.19 | J | PCB-177 | 10.8 | 4.88 | | | 1.34 | |
| PCB-134/143 | 2.94 | 9.75 | | | 2.40 | J | PCB-178 | 4.89 | 4.88 | | | 2.25 | |
| PCB-135 | 7.29 | 4.88 | | | 2.90 | | PCB-179 | 8.96 | 4.88 | | | 1.57 | |

RL - Reporting limit DL - Sample specific estimated detection limit LCL-UCL- Lower control limit - upper control limit
 EMPC - Estimated maximum possible concentration MDL - Method detection limit

Sample ID: PS-TS-01-20140909-W

EPA Method 1668C

| | | | | | |
|--------------------|------------------------|--------------------|---------|------------------------|------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Leidos | Matrix: | Aqueous | Lab Sample: | 1400659-01 |
| Project: | NPDES Sampling Support | Sample Size: | 1.03 L | Date Received: | 10-Sep-2014 9:29 |
| Date Collected: | 09-Sep-2014 11:15 | | | QC Batch: | B4I0047 |
| | | | | Date Analyzed: | 19-Sep-14 15:59 |
| | | | | Column: | ZB-1 |
| | | | | Analyst: | DMS |

| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|------|---------|------------|------------------|------|---------|------------|
| IS 13C-PCB-1 | 65.1 | 5 -145 | | 13C-PCB-170 | 87.7 | 10 -145 | |
| 13C-PCB-3 | 63.2 | 5 -145 | | 13C-PCB-180 | 90.1 | 10 -145 | |
| 13C-PCB-4 | 76.5 | 5 -145 | | 13C-PCB-188 | 89.8 | 10 -145 | |
| 13C-PCB-11 | 83.4 | 5 -145 | | 13C-PCB-189 | 70.4 | 10 -145 | |
| 13C-PCB-9 | 76.2 | 5 -145 | | 13C-PCB-194 | 98.7 | 10 -145 | |
| 13C-PCB-19 | 67.2 | 5 -145 | | 13C-PCB-202 | 99.3 | 10 -145 | |
| 13C-PCB-28 | 90.6 | 5 -145 | | 13C-PCB-206 | 88.5 | 10 -145 | |
| 13C-PCB-32 | 75.9 | 5 -145 | | 13C-PCB-208 | 97.1 | 10 -145 | |
| 13C-PCB-37 | 93.8 | 5 -145 | | 13C-PCB-209 | 82.7 | 10 -145 | |
| 13C-PCB-47 | 78.2 | 5 -145 | | CRS 13C-PCB-79 | 97.5 | 10 -145 | |
| 13C-PCB-52 | 77.9 | 5 -145 | | 13C-PCB-178 | 110 | 10 -145 | |
| 13C-PCB-54 | 75.0 | 5 -145 | | | | | |
| 13C-PCB-70 | 79.8 | 5 -145 | | | | | |
| 13C-PCB-77 | 84.0 | 10 -145 | | | | | |
| 13C-PCB-80 | 85.8 | 10 -145 | | | | | |
| 13C-PCB-81 | 87.8 | 10 -145 | | | | | |
| 13C-PCB-95 | 81.5 | 10 -145 | | | | | |
| 13C-PCB-97 | 89.6 | 10 -145 | | | | | |
| 13C-PCB-101 | 87.5 | 10 -145 | | | | | |
| 13C-PCB-104 | 79.1 | 10 -145 | | | | | |
| 13C-PCB-105 | 69.3 | 10 -145 | | | | | |
| 13C-PCB-114 | 71.9 | 10 -145 | | | | | |
| 13C-PCB-118 | 83.2 | 10 -145 | | | | | |
| 13C-PCB-123 | 84.8 | 10 -145 | | | | | |
| 13C-PCB-126 | 67.5 | 10 -145 | | | | | |
| 13C-PCB-127 | 71.3 | 10 -145 | | | | | |
| 13C-PCB-138 | 87.9 | 10 -145 | | | | | |
| 13C-PCB-141 | 88.5 | 10 -145 | | | | | |
| 13C-PCB-153 | 87.2 | 10 -145 | | | | | |
| 13C-PCB-155 | 90.9 | 10 -145 | | | | | |
| 13C-PCB-156 | 84.8 | 10 -145 | | | | | |
| 13C-PCB-157 | 86.0 | 10 -145 | | | | | |
| 13C-PCB-159 | 87.3 | 10 -145 | | | | | |
| 13C-PCB-167 | 88.0 | 10 -145 | | | | | |
| 13C-PCB-169 | 73.3 | 10 -145 | | | | | |

RL - Reporting limit

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

MDL - Method detection limit

Sample ID: PS-OS-01-20140909-W

EPA Method 1668C

| | | | | | | | | | | | | | |
|--------------------|------------------------|--|--|--------------------|---------|--|------------------------|-----------------|--|-----------------|-------------------|--|--|
| Client Data | | | | Sample Data | | | Laboratory Data | | | | | | |
| Name: | Leidos | | | Matrix: | Aqueous | | Lab Sample: | 1400659-02 | | Date Received: | 10-Sep-2014 9:29 | | |
| Project: | NPDES Sampling Support | | | Sample Size: | 1.01 L | | QC Batch: | B410047 | | Date Extracted: | 15-Sep-2014 8:46 | | |
| Date Collected: | 09-Sep-2014 12:20 | | | | | | Date Analyzed : | 19-Sep-14 17:03 | | Column: | ZB-1 Analyst: DMS | | |
| | | | | | | | | 23-Sep-14 19:22 | | Column: | ZB-1 Analyst: DMS | | |

| Analyte | Conc. (pg/L) | RL | DL | EMPC | MDL | Qualifiers | Analyte | Conc. (pg/L) | RL | DL | EMPC | MDL | Qualifiers |
|---------------|--------------|------|------|------|-------|------------|-----------------|--------------|------|------|------|-------|------------|
| PCB-89 | 3.69 | 4.94 | | | 1.84 | J | PCB-136 | 129 | 4.94 | | | 2.89 | |
| PCB-90/101 | 352 | 9.88 | | | 1.92 | | PCB-137 | 28.0 | 4.94 | | | 2.08 | |
| PCB-93 | ND | 4.94 | 2.04 | | 1.47 | | PCB-138/163/164 | 905 | 14.8 | | | 2.68 | |
| PCB-94 | ND | 4.94 | | 2.05 | 1.91 | | PCB-139/149 | 827 | 9.88 | | | 7.87 | |
| PCB-95/98/102 | 334 | 14.8 | | | 6.58 | | PCB-140 | ND | 4.94 | | 3.40 | 3.52 | |
| PCB-96 | 1.86 | 4.94 | | | 2.16 | J | PCB-141 | 201 | 4.94 | | | 1.15 | |
| PCB-97 | 94.4 | 4.94 | | | 1.24 | | PCB-144 | 44.0 | 4.94 | | | 3.22 | |
| PCB-99 | 99.2 | 4.94 | | | 1.94 | | PCB-145 | ND | 4.94 | 1.18 | | 1.73 | |
| PCB-100 | ND | 4.94 | 2.18 | | 2.03 | | PCB-146/165 | 118 | 9.88 | | | 1.91 | |
| PCB-103 | ND | 4.94 | | 1.82 | 2.28 | | PCB-147 | 11.2 | 4.94 | | | 3.62 | |
| PCB-104 | ND | 4.94 | 1.74 | | 0.931 | | PCB-148 | ND | 4.94 | 1.73 | | 1.68 | |
| PCB-105 | 134 | 4.94 | | | 2.21 | | PCB-150 | 1.66 | 4.94 | | | 1.14 | J |
| PCB-106/118 | 301 | 9.88 | | | 2.44 | | PCB-151 | 252 | 4.94 | | | 3.59 | |
| PCB-107/109 | 23.4 | 9.88 | | | 1.98 | | PCB-152 | ND | 4.94 | 1.17 | | 1.82 | |
| PCB-108/112 | 17.2 | 9.88 | | | 1.86 | | PCB-153 | 720 | 4.94 | | | 1.83 | |
| PCB-110 | 500 | 4.94 | | | 1.94 | | PCB-154 | 7.61 | 4.94 | | | 2.78 | |
| PCB-111/115 | 4.47 | 9.88 | | | 0.768 | J | PCB-155 | ND | 4.94 | 1.13 | | 1.45 | |
| PCB-113 | ND | 4.94 | 1.62 | | 1.31 | | PCB-156 | 66.0 | 4.94 | | | 1.74 | |
| PCB-114 | 7.16 | 4.94 | | | 1.81 | | PCB-157 | 19.7 | 4.94 | | | 1.17 | |
| PCB-119 | 5.31 | 4.94 | | | 0.949 | | PCB-158/160 | 96.5 | 9.88 | | | 1.99 | |
| PCB-120 | ND | 4.94 | | 1.87 | 1.01 | | PCB-159 | ND | 4.94 | 3.37 | | 1.20 | |
| PCB-121 | ND | 4.94 | 1.21 | | 1.94 | | PCB-166 | 2.97 | 4.94 | | | 0.920 | J |
| PCB-122 | 4.04 | 4.94 | | | 1.84 | J | PCB-167 | 33.4 | 4.94 | | | 1.65 | |
| PCB-123 | 5.25 | 4.94 | | | 1.35 | | PCB-168 | ND | 4.94 | 2.79 | | 0.933 | |
| PCB-124 | 20.5 | 4.94 | | | 1.79 | | PCB-169 | ND | 4.94 | 4.10 | | 1.12 | |
| PCB-126 | 8.10 | 4.94 | | | 2.05 | | PCB-170 | 385 | 4.94 | | | 1.38 | |
| PCB-127 | ND | 4.94 | 7.47 | | 0.808 | | PCB-171 | 113 | 4.94 | | | 1.61 | |
| PCB-128/162 | 124 | 9.88 | | | 1.68 | | PCB-172 | 81.7 | 4.94 | | | 1.46 | |
| PCB-129 | 35.1 | 4.94 | | | 1.11 | | PCB-173 | 11.0 | 4.94 | | | 1.49 | |
| PCB-130 | 57.5 | 4.94 | | | 2.21 | | PCB-174 | 488 | 4.94 | | | 1.42 | |
| PCB-131 | ND | 4.94 | 4.19 | | 1.46 | | PCB-175 | 17.8 | 4.94 | | | 3.15 | |
| PCB-132/161 | 239 | 9.88 | | | 2.34 | | PCB-176 | 55.5 | 4.94 | | | 2.17 | |
| PCB-133/142 | 20.4 | 9.88 | | | 2.19 | | PCB-177 | 272 | 4.94 | | | 1.34 | |
| PCB-134/143 | 43.4 | 9.88 | | | 2.40 | | PCB-178 | 93.0 | 4.94 | | | 2.25 | |
| PCB-135 | 125 | 4.94 | | | 2.90 | | PCB-179 | 208 | 4.94 | | | 1.57 | |

RL - Reporting limit

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

MDL - Method detection limit

Sample ID: PS-OS-01-20140909-W

EPA Method 1668C

| Client Data | | | | Sample Data | | | Laboratory Data | | | | | | | |
|-----------------|------------------------|--|--|--------------|---------|--|-----------------|-----------------|-----------------|-----------------|-------------------|-------------------|--|--|
| Name: | Leidos | | | Matrix: | Aqueous | | Lab Sample: | 1400659-02 | | Date Received: | 10-Sep-2014 9:29 | | | |
| Project: | NPDES Sampling Support | | | Sample Size: | 1.01 L | | QC Batch: | B4I0047 | | Date Extracted: | 15-Sep-2014 8:46 | | | |
| Date Collected: | 09-Sep-2014 12:20 | | | | | | Date Analyzed : | 19-Sep-14 17:03 | | Column: | ZB-1 Analyst: DMS | | | |
| | | | | | | | | | 23-Sep-14 19:22 | | Column: | ZB-1 Analyst: DMS | | |

| Analyte | Conc. (pg/L) | RL | DL | EMPC | MDL | Qualifiers | Analyte | Conc. (pg/L) | RL | DL | EMPC | MDL | Qualifiers |
|---------------|--------------|------|------|------|-------|------------|--------------|--------------|------|----|------|-----|------------|
| PCB-180 | 962 | 4.94 | | | 0.610 | | Total octaCB | 986 | 4.94 | | 1020 | | |
| PCB-181 | ND | 4.94 | 1.69 | | 1.01 | | Total nonaCB | 111 | 4.94 | | 134 | | |
| PCB-182/187 | 571 | 9.88 | | | 6.20 | | DecaCB | ND | 4.94 | | 26.2 | | |
| PCB-183 | 239 | 4.94 | | | 3.29 | | Total PCB | 12300 | 9.88 | | | | |
| PCB-184 | ND | 4.94 | 1.12 | | 1.25 | | | | | | | | |
| PCB-185 | 62.2 | 4.94 | | | 1.47 | | | | | | | | |
| PCB-186 | ND | 4.94 | 1.09 | | 2.43 | | | | | | | | |
| PCB-188 | ND | 4.94 | | 1.52 | 1.08 | | | | | | | | |
| PCB-189 | 16.2 | 4.94 | | | 1.49 | | | | | | | | |
| PCB-190 | 73.5 | 4.94 | | | 1.70 | | | | | | | | |
| PCB-191 | 16.2 | 4.94 | | | 1.96 | | | | | | | | |
| PCB-192 | ND | 4.94 | 1.51 | | 1.69 | | | | | | | | |
| PCB-193 | 46.2 | 4.94 | | | 1.46 | | | | | | | | |
| PCB-194 | 246 | 4.94 | | | 1.71 | | | | | | | | |
| PCB-195 | 98.1 | 4.94 | | | 1.47 | | | | | | | | |
| PCB-196/203 | 263 | 9.88 | | | 6.35 | | | | | | | | |
| PCB-197 | 10.7 | 4.94 | | | 1.80 | | | | | | | | |
| PCB-198 | 10.3 | 4.94 | | | 3.78 | | | | | | | | |
| PCB-199 | 257 | 4.94 | | | 4.05 | | | | | | | | |
| PCB-200 | 34.3 | 4.94 | | | 1.75 | | | | | | | | |
| PCB-201 | ND | 4.94 | | 31.5 | 1.02 | | | | | | | | |
| PCB-202 | 55.3 | 4.94 | | | 1.55 | | | | | | | | |
| PCB-204 | ND | 4.94 | 1.67 | | 1.48 | | | | | | | | |
| PCB-205 | 11.0 | 4.94 | | | 1.53 | | | | | | | | |
| PCB-206 | 97.6 | 4.94 | | | 1.32 | | | | | | | | |
| PCB-207 | 13.6 | 4.94 | | | 1.51 | | | | | | | | |
| PCB-208 | ND | 4.94 | | 22.4 | 1.34 | | | | | | | | |
| PCB-209 | ND | 4.94 | | 26.2 | 1.86 | | | | | | | | |
| Total monoCB | 3.56 | 4.94 | | 8.53 | | | | | | | | | |
| Total diCB | 313 | 9.88 | | | | | | | | | | | |
| Total triCB | 226 | 4.94 | | 231 | | | | | | | | | |
| Total tetraCB | 488 | 4.94 | | 516 | | | | | | | | | |
| Total pentaCB | 2350 | 4.94 | | 2360 | | | | | | | | | |
| Total hexaCB | 4110 | 4.94 | | | | | | | | | | | |
| Total heptaCB | 3710 | 4.94 | | | | | | | | | | | |

RL - Reporting limit

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

MDL - Method detection limit

Sample ID: PS-OS-01-20140909-W

EPA Method 1668C

| Client Data | | Sample Data | | Laboratory Data | | | |
|-----------------|------------------------|--------------|---------|-----------------|-----------------|-----------------|-------------------|
| Name: | Leidos | Matrix: | Aqueous | Lab Sample: | 1400659-02 | Date Received: | 10-Sep-2014 9:29 |
| Project: | NPDES Sampling Support | Sample Size: | 1.01 L | QC Batch: | B4I0047 | Date Extracted: | 15-Sep-2014 8:46 |
| Date Collected: | 09-Sep-2014 12:20 | | | Date Analyzed : | 19-Sep-14 17:03 | Column: | ZB-1 Analyst: DMS |
| | | | | | 23-Sep-14 19:22 | Column: | ZB-1 Analyst: DMS |

| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|------|---------|------------|------------------|------|---------|------------|
| IS 13C-PCB-1 | 69.7 | 5 -145 | | 13C-PCB-170 | 76.5 | 10 -145 | |
| 13C-PCB-3 | 64.3 | 5 -145 | | 13C-PCB-180 | 80.2 | 10 -145 | |
| 13C-PCB-4 | 72.8 | 5 -145 | | 13C-PCB-188 | 89.8 | 10 -145 | |
| 13C-PCB-11 | 81.7 | 5 -145 | | 13C-PCB-189 | 48.1 | 10 -145 | |
| 13C-PCB-9 | 73.8 | 5 -145 | | 13C-PCB-194 | 92.6 | 10 -145 | |
| 13C-PCB-19 | 67.0 | 5 -145 | | 13C-PCB-202 | 89.0 | 10 -145 | |
| 13C-PCB-28 | 81.9 | 5 -145 | | 13C-PCB-206 | 89.9 | 10 -145 | |
| 13C-PCB-32 | 69.1 | 5 -145 | | 13C-PCB-208 | 96.9 | 10 -145 | |
| 13C-PCB-37 | 84.9 | 5 -145 | | 13C-PCB-209 | 94.4 | 10 -145 | |
| 13C-PCB-47 | 78.2 | 5 -145 | | CRS 13C-PCB-79 | 96.7 | 10 -145 | |
| 13C-PCB-52 | 76.1 | 5 -145 | | 13C-PCB-178 | 108 | 10 -145 | |
| 13C-PCB-54 | 78.6 | 5 -145 | | | | | |
| 13C-PCB-70 | 83.1 | 5 -145 | | | | | |
| 13C-PCB-77 | 78.2 | 10 -145 | | | | | |
| 13C-PCB-80 | 86.1 | 10 -145 | | | | | |
| 13C-PCB-81 | 82.4 | 10 -145 | | | | | |
| 13C-PCB-95 | 80.7 | 10 -145 | | | | | |
| 13C-PCB-97 | 83.7 | 10 -145 | | | | | |
| 13C-PCB-101 | 83.2 | 10 -145 | | | | | |
| 13C-PCB-104 | 77.6 | 10 -145 | | | | | |
| 13C-PCB-105 | 69.8 | 10 -145 | | | | | |
| 13C-PCB-114 | 71.3 | 10 -145 | | | | | |
| 13C-PCB-118 | 77.9 | 10 -145 | | | | | |
| 13C-PCB-123 | 78.8 | 10 -145 | | | | | |
| 13C-PCB-126 | 67.3 | 10 -145 | | | | | |
| 13C-PCB-127 | 71.3 | 10 -145 | | | | | |
| 13C-PCB-138 | 86.9 | 10 -145 | | | | | |
| 13C-PCB-141 | 90.1 | 10 -145 | | | | | |
| 13C-PCB-153 | 88.8 | 10 -145 | | | | | |
| 13C-PCB-155 | 87.1 | 10 -145 | | | | | |
| 13C-PCB-156 | 77.1 | 10 -145 | | | | | |
| 13C-PCB-157 | 77.6 | 10 -145 | | | | | |
| 13C-PCB-159 | 83.3 | 10 -145 | | | | | |
| 13C-PCB-167 | 79.4 | 10 -145 | | | | | |
| 13C-PCB-169 | 66.7 | 10 -145 | | | | | |

RL - Reporting limit

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

MDL - Method detection limit

Sample ID: Method Blank

EPA Method 1668C

| | | |
|---------------------|-----------------------------------|--|
| Matrix: Solid | QC Batch: B4I0061 | Lab Sample: B4I0061-BLK1 |
| Sample Size: 10.0 g | Date Extracted: 16-Sep-2014 13:26 | Date Analyzed: 20-Sep-14 05:05 Column: ZB-1 Analyst: MAS |

| Analyte | Conc. (pg/g) | RL | DL | EMPC | MDL | Qualifiers | Analyte | Conc. (pg/g) | RL | DL | EMPC | MDL | Qualifiers |
|-----------------|--------------|------|-------|------|-------|------------|------------|--------------|------|-------|------|-------|------------|
| PCB-1 | ND | 2.50 | 0.794 | | 0.320 | | PCB-43/49 | ND | 5.00 | 0.552 | | 0.879 | |
| PCB-2 | ND | 2.50 | 0.833 | | 0.240 | | PCB-44 | ND | 2.50 | 0.583 | | 0.745 | |
| PCB-3 | ND | 2.50 | 0.692 | | 0.323 | | PCB-45 | ND | 2.50 | 0.636 | | 0.402 | |
| PCB-4/10 | ND | 10.0 | 3.61 | | 1.14 | | PCB-46 | ND | 2.50 | 0.650 | | 0.537 | |
| PCB-5/8 | ND | 10.0 | 3.24 | | 1.76 | | PCB-47 | ND | 2.50 | 0.473 | | 2.19 | |
| PCB-6 | ND | 5.00 | 2.85 | | 1.00 | | PCB-48/75 | ND | 5.00 | 0.408 | | 0.983 | |
| PCB-7/9 | ND | 10.0 | 3.07 | | 1.34 | | PCB-50 | ND | 2.50 | 0.517 | | 0.603 | |
| PCB-11 | ND | 5.00 | 3.32 | | 3.48 | | PCB-51 | ND | 2.50 | 0.554 | | 0.789 | |
| PCB-12/13 | ND | 10.0 | 3.02 | | 1.37 | | PCB-52/69 | ND | 5.00 | 0.428 | | 0.722 | |
| PCB-14 | ND | 5.00 | 3.25 | | 0.337 | | PCB-53 | ND | 2.50 | 0.516 | | 0.331 | |
| PCB-15 | ND | 5.00 | 2.81 | | 0.634 | | PCB-54 | ND | 2.50 | 0.413 | | 0.275 | |
| PCB-16/32 | ND | 10.0 | 0.355 | | 0.430 | | PCB-55 | ND | 2.50 | 0.373 | | 0.416 | |
| PCB-17 | ND | 2.50 | 0.362 | | 0.658 | | PCB-56/60 | ND | 5.00 | 0.384 | | 0.825 | |
| PCB-18 | ND | 2.50 | 0.455 | | 0.696 | | PCB-57 | ND | 2.50 | 0.406 | | 0.354 | |
| PCB-19 | ND | 2.50 | 0.480 | | 0.612 | | PCB-58 | ND | 2.50 | 0.428 | | 0.589 | |
| PCB-20/21/33 | ND | 7.50 | 0.391 | | 2.47 | | PCB-61/70 | ND | 5.00 | 0.417 | | 1.20 | |
| PCB-22 | ND | 2.50 | 0.350 | | 0.964 | | PCB-62 | ND | 2.50 | 0.410 | | 0.597 | |
| PCB-23 | ND | 2.50 | 0.317 | | 0.543 | | PCB-63 | ND | 2.50 | 0.417 | | 0.524 | |
| PCB-24/27 | ND | 5.00 | 0.281 | | 0.742 | | PCB-65 | ND | 2.50 | 0.409 | | 0.842 | |
| PCB-25 | ND | 2.50 | 0.322 | | 0.768 | | PCB-66/76 | ND | 5.00 | 0.380 | | 1.31 | |
| PCB-26 | ND | 2.50 | 0.336 | | 0.766 | | PCB-67 | ND | 2.50 | 0.359 | | 0.486 | |
| PCB-28 | ND | 2.50 | 0.200 | | 1.12 | | PCB-68 | ND | 2.50 | 0.372 | | 0.658 | |
| PCB-29 | ND | 2.50 | 0.376 | | 0.949 | | PCB-73 | ND | 2.50 | 0.406 | | 0.454 | |
| PCB-30 | ND | 2.50 | 0.293 | | 0.355 | | PCB-74 | ND | 2.50 | 0.319 | | 0.781 | |
| PCB-31 | ND | 2.50 | 0.267 | | 0.809 | | PCB-77 | ND | 2.50 | 0.377 | | 0.748 | |
| PCB-34 | ND | 2.50 | 0.357 | | 1.57 | | PCB-78 | ND | 2.50 | 0.339 | | 0.385 | |
| PCB-35 | ND | 2.50 | 0.367 | | 0.565 | | PCB-79 | ND | 2.50 | 0.359 | | 0.633 | |
| PCB-36 | ND | 2.50 | 0.396 | | 0.406 | | PCB-80 | ND | 2.50 | 0.325 | | 0.336 | |
| PCB-37 | ND | 2.50 | 0.367 | | 0.389 | | PCB-81 | ND | 2.50 | 0.323 | | 0.674 | |
| PCB-38 | ND | 2.50 | 0.377 | | 0.528 | | PCB-82 | ND | 2.50 | 0.966 | | 0.981 | |
| PCB-39 | ND | 2.50 | 0.405 | | 0.461 | | PCB-83 | ND | 2.50 | 0.632 | | 0.440 | |
| PCB-40 | ND | 2.50 | 0.715 | | 0.927 | | PCB-84/92 | ND | 5.00 | 0.870 | | 1.01 | |
| PCB-41/64/71/72 | ND | 10.0 | 0.415 | | 1.70 | | PCB-85/116 | ND | 5.00 | 0.737 | | 1.64 | |
| PCB-42/59 | ND | 5.00 | 0.441 | | 0.899 | | PCB-86 | ND | 2.50 | 1.14 | | 1.79 | |

RL - Reporting limit

DL - Sample specific 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: Method Blank

EPA Method 1668C

| | | |
|---------------------|-----------------------------------|--|
| Matrix: Solid | QC Batch: B4I0061 | Lab Sample: B4I0061-BLK1 |
| Sample Size: 10.0 g | Date Extracted: 16-Sep-2014 13:26 | Date Analyzed: 20-Sep-14 05:05 Column: ZB-1 Analyst: MAS |

| Analyte | Conc. (pg/g) | RL | DL | EMPC | MDL | Qualifiers | Analyte | Conc. (pg/g) | RL | DL | EMPC | MDL | Qualifiers |
|----------------|--------------|------|-------|------|-------|------------|-----------------|--------------|------|-------|------|-------|------------|
| PCB-87/117/125 | ND | 7.50 | 0.620 | | 0.880 | | PCB-133/142 | ND | 5.00 | 0.842 | | 1.04 | |
| PCB-88/91 | ND | 5.00 | 0.921 | | 1.25 | | PCB-134/143 | ND | 5.00 | 0.752 | | 1.05 | |
| PCB-89 | ND | 2.50 | 0.805 | | 1.22 | | PCB-135 | ND | 2.50 | 0.595 | | 1.47 | |
| PCB-90/101 | ND | 5.00 | 0.827 | | 1.19 | | PCB-136 | ND | 2.50 | 0.400 | | 0.776 | |
| PCB-93 | ND | 2.50 | 1.22 | | 1.42 | | PCB-137 | ND | 2.50 | 0.730 | | 0.541 | |
| PCB-94 | ND | 2.50 | 0.973 | | 0.874 | | PCB-138/163/164 | ND | 7.50 | 0.550 | | 0.809 | |
| PCB-95/98/102 | ND | 7.50 | 0.840 | | 1.38 | | PCB-139/149 | ND | 2.50 | 0.619 | | 1.49 | |
| PCB-96 | ND | 2.50 | 0.676 | | 0.588 | | PCB-140 | ND | 2.50 | 0.653 | | 1.20 | |
| PCB-97 | ND | 2.50 | 0.812 | | 0.675 | | PCB-141 | ND | 2.50 | 0.714 | | 0.678 | |
| PCB-99 | ND | 2.50 | 0.681 | | 0.474 | | PCB-144 | ND | 2.50 | 0.619 | | 1.38 | |
| PCB-100 | ND | 2.50 | 0.821 | | 0.511 | | PCB-145 | ND | 2.50 | 0.392 | | 1.05 | |
| PCB-103 | ND | 2.50 | 0.804 | | 0.428 | | PCB-146/165 | ND | 5.00 | 0.553 | | 0.792 | |
| PCB-104 | ND | 2.50 | 0.650 | | 0.876 | | PCB-147 | ND | 2.50 | 0.575 | | 1.65 | |
| PCB-105 | ND | 2.50 | 0.738 | | 0.462 | | PCB-148 | ND | 2.50 | 0.633 | | 1.45 | |
| PCB-106/118 | ND | 5.00 | 0.633 | | 0.728 | | PCB-150 | ND | 2.50 | 0.472 | | 0.801 | |
| PCB-107/109 | ND | 5.00 | 0.555 | | 0.631 | | PCB-151 | ND | 2.50 | 0.631 | | 1.16 | |
| PCB-108/112 | ND | 5.00 | 0.750 | | 0.844 | | PCB-152 | ND | 2.50 | 0.423 | | 0.744 | |
| PCB-110 | ND | 2.50 | 0.617 | | 0.555 | | PCB-153 | ND | 2.50 | 0.552 | | 0.484 | |
| PCB-111/115 | ND | 5.00 | 0.588 | | 1.24 | | PCB-154 | ND | 2.50 | 0.550 | | 0.837 | |
| PCB-113 | ND | 2.50 | 0.645 | | 0.495 | | PCB-155 | ND | 2.50 | 0.423 | | 0.767 | |
| PCB-114 | ND | 2.50 | 0.775 | | 0.418 | | PCB-156 | ND | 2.50 | 0.546 | | 0.534 | |
| PCB-119 | ND | 2.50 | 0.627 | | 0.383 | | PCB-157 | ND | 2.50 | 0.517 | | 0.485 | |
| PCB-120 | ND | 2.50 | 0.573 | | 0.622 | | PCB-158/160 | ND | 5.00 | 0.530 | | 0.915 | |
| PCB-121 | ND | 2.50 | 0.637 | | 0.978 | | PCB-159 | ND | 2.50 | 0.577 | | 0.578 | |
| PCB-122 | ND | 2.50 | 0.897 | | 0.619 | | PCB-166 | ND | 2.50 | 0.541 | | 0.425 | |
| PCB-123 | ND | 2.50 | 0.628 | | 0.494 | | PCB-167 | ND | 2.50 | 0.482 | | 0.653 | |
| PCB-124 | ND | 2.50 | 0.499 | | 0.813 | | PCB-168 | ND | 2.50 | 0.476 | | 0.502 | |
| PCB-126 | ND | 2.50 | 0.886 | | 0.543 | | PCB-169 | ND | 2.50 | 0.560 | | 0.767 | |
| PCB-127 | ND | 2.50 | 0.687 | | 0.326 | | PCB-170 | ND | 2.50 | 0.410 | | 0.758 | |
| PCB-128/162 | ND | 5.00 | 0.613 | | 1.08 | | PCB-171 | ND | 2.50 | 0.364 | | 0.372 | |
| PCB-129 | ND | 2.50 | 0.834 | | 0.567 | | PCB-172 | ND | 2.50 | 0.352 | | 0.857 | |
| PCB-130 | ND | 2.50 | 0.803 | | 0.798 | | PCB-173 | ND | 2.50 | 0.519 | | 0.507 | |
| PCB-131 | ND | 2.50 | 0.760 | | 0.731 | | PCB-174 | ND | 2.50 | 0.418 | | 0.797 | |
| PCB-132/161 | ND | 5.00 | 0.624 | | 1.05 | | PCB-175 | ND | 2.50 | 0.429 | | 0.679 | |

RL - Reporting limit

DL - Sample specific 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: Method Blank

EPA Method 1668C

| | | |
|---------------------|-----------------------------------|--|
| Matrix: Solid | QC Batch: B4I0061 | Lab Sample: B4I0061-BLK1 |
| Sample Size: 10.0 g | Date Extracted: 16-Sep-2014 13:26 | Date Analyzed: 20-Sep-14 05:05 Column: ZB-1 Analyst: MAS |

| Analyte | Conc. (pg/g) | RL | DL | EMPC | MDL | Qualifiers | Analyte | Conc. (pg/g) | RL | DL | EMPC | MDL | Qualifiers |
|--------------|--------------|------|-------|------|-------|------------|---------------|--------------|------|-------|------|-----|------------|
| PCB-176 | ND | 2.50 | 0.294 | | 0.729 | | Total triCB | ND | 2.50 | 0.480 | | | |
| PCB-177 | ND | 2.50 | 0.459 | | 0.404 | | Total tetraCB | ND | 2.50 | 0.715 | | | |
| PCB-178 | ND | 2.50 | 0.420 | | 0.610 | | Total pentaCB | ND | 2.50 | 1.22 | | | |
| PCB-179 | ND | 2.50 | 0.333 | | 0.418 | | Total hexaCB | ND | 2.50 | 0.842 | | | |
| PCB-180 | ND | 2.50 | 0.428 | | 0.420 | | Total heptaCB | ND | 2.50 | 0.519 | | | |
| PCB-181 | ND | 2.50 | 0.417 | | 1.26 | | Total octaCB | ND | 2.50 | 0.658 | | | |
| PCB-182/187 | ND | 5.00 | 0.347 | | 1.33 | | Total nonaCB | ND | 2.50 | 0.610 | | | |
| PCB-183 | ND | 2.50 | 0.359 | | 0.638 | | DecaCB | ND | 2.50 | 0.485 | | | |
| PCB-184 | ND | 2.50 | 0.266 | | 0.597 | | Total PCB | ND | 5.00 | 3.61 | | | |
| PCB-185 | ND | 2.50 | 0.320 | | 0.557 | | | | | | | | |
| PCB-186 | ND | 2.50 | 0.299 | | 0.421 | | | | | | | | |
| PCB-188 | ND | 2.50 | 0.275 | | 0.759 | | | | | | | | |
| PCB-189 | ND | 2.50 | 0.329 | | 0.483 | | | | | | | | |
| PCB-190 | ND | 2.50 | 0.297 | | 0.686 | | | | | | | | |
| PCB-191 | ND | 2.50 | 0.340 | | 0.447 | | | | | | | | |
| PCB-192 | ND | 2.50 | 0.331 | | 0.528 | | | | | | | | |
| PCB-193 | ND | 2.50 | 0.336 | | 0.836 | | | | | | | | |
| PCB-194 | ND | 2.50 | 0.502 | | 0.645 | | | | | | | | |
| PCB-195 | ND | 2.50 | 0.496 | | 0.722 | | | | | | | | |
| PCB-196/203 | ND | 5.00 | 0.620 | | 0.983 | | | | | | | | |
| PCB-197 | ND | 2.50 | 0.462 | | 0.794 | | | | | | | | |
| PCB-198 | ND | 2.50 | 0.658 | | 0.792 | | | | | | | | |
| PCB-199 | ND | 2.50 | 0.623 | | 0.615 | | | | | | | | |
| PCB-200 | ND | 2.50 | 0.467 | | 0.795 | | | | | | | | |
| PCB-201 | ND | 2.50 | 0.432 | | 0.317 | | | | | | | | |
| PCB-202 | ND | 2.50 | 0.459 | | 0.759 | | | | | | | | |
| PCB-204 | ND | 2.50 | 0.436 | | 0.543 | | | | | | | | |
| PCB-205 | ND | 2.50 | 0.394 | | 0.471 | | | | | | | | |
| PCB-206 | ND | 2.50 | 0.610 | | 0.852 | | | | | | | | |
| PCB-207 | ND | 2.50 | 0.260 | | 0.402 | | | | | | | | |
| PCB-208 | ND | 2.50 | 0.303 | | 0.441 | | | | | | | | |
| PCB-209 | ND | 2.50 | 0.485 | | 1.10 | | | | | | | | |
| Total monoCB | ND | 2.50 | 0.833 | | | | | | | | | | |
| Total diCB | ND | 5.00 | 3.61 | | | | | | | | | | |

RL - Reporting limit

DL - Sample specific 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: Method Blank

EPA Method 1668C

| | | |
|---------------------|-----------------------------------|--|
| Matrix: Solid | QC Batch: B4I0061 | Lab Sample: B4I0061-BLK1 |
| Sample Size: 10.0 g | Date Extracted: 16-Sep-2014 13:26 | Date Analyzed: 20-Sep-14 05:05 Column: ZB-1 Analyst: MAS |

| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|------|----------|------------|------------------|------|----------|------------|
| IS 13C-PCB-1 | 90.7 | 5 - 145 | | 13C-PCB-157 | 80.6 | 10 - 145 | |
| 13C-PCB-3 | 93.4 | 5 - 145 | | 13C-PCB-159 | 78.7 | 10 - 145 | |
| 13C-PCB-4 | 64.6 | 5 - 145 | | 13C-PCB-167 | 79.4 | 10 - 145 | |
| 13C-PCB-11 | 69.6 | 5 - 145 | | 13C-PCB-169 | 76.3 | 10 - 145 | |
| 13C-PCB-9 | 66.2 | 5 - 145 | | 13C-PCB-170 | 89.2 | 10 - 145 | |
| 13C-PCB-19 | 82.6 | 5 - 145 | | 13C-PCB-180 | 87.2 | 10 - 145 | |
| 13C-PCB-28 | 68.6 | 5 - 145 | | 13C-PCB-188 | 83.8 | 10 - 145 | |
| 13C-PCB-32 | 86.0 | 5 - 145 | | 13C-PCB-189 | 83.3 | 10 - 145 | |
| 13C-PCB-37 | 76.2 | 5 - 145 | | 13C-PCB-194 | 85.0 | 10 - 145 | |
| 13C-PCB-47 | 71.7 | 5 - 145 | | 13C-PCB-202 | 99.6 | 10 - 145 | |
| 13C-PCB-52 | 70.5 | 5 - 145 | | 13C-PCB-206 | 86.8 | 10 - 145 | |
| 13C-PCB-54 | 65.1 | 5 - 145 | | 13C-PCB-208 | 86.6 | 10 - 145 | |
| 13C-PCB-70 | 75.7 | 5 - 145 | | 13C-PCB-209 | 93.8 | 10 - 145 | |
| 13C-PCB-77 | 78.1 | 10 - 145 | | CRS 13C-PCB-79 | 80.0 | 10 - 145 | |
| 13C-PCB-80 | 77.4 | 10 - 145 | | 13C-PCB-178 | 90.8 | 10 - 145 | |
| 13C-PCB-81 | 78.7 | 10 - 145 | | | | | |
| 13C-PCB-95 | 73.2 | 10 - 145 | | | | | |
| 13C-PCB-97 | 80.2 | 10 - 145 | | | | | |
| 13C-PCB-101 | 76.5 | 10 - 145 | | | | | |
| 13C-PCB-104 | 69.5 | 10 - 145 | | | | | |
| 13C-PCB-105 | 66.6 | 10 - 145 | | | | | |
| 13C-PCB-114 | 66.9 | 10 - 145 | | | | | |
| 13C-PCB-118 | 79.7 | 10 - 145 | | | | | |
| 13C-PCB-123 | 82.8 | 10 - 145 | | | | | |
| 13C-PCB-126 | 66.4 | 10 - 145 | | | | | |
| 13C-PCB-127 | 66.4 | 10 - 145 | | | | | |
| 13C-PCB-138 | 78.6 | 10 - 145 | | | | | |
| 13C-PCB-141 | 77.5 | 10 - 145 | | | | | |
| 13C-PCB-153 | 77.6 | 10 - 145 | | | | | |
| 13C-PCB-155 | 85.4 | 10 - 145 | | | | | |
| 13C-PCB-156 | 77.8 | 10 - 145 | | | | | |

RL - Reporting limit

EMPC - Estimated maximum possible concentration

DL - Sample specific 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: B4I0061
Date Extracted: 16-Sep-2014 13:26

Lab Sample: B4I0061-BS1
Date Analyzed: 20-Sep-14 01:51 Column: ZB-1 Analyst: MAS

| Analyte | Amt Found (pg/g) | Spike Amt | %R | Limits | Labeled Standard | %R | LCL-UCL |
|-------------|------------------|-----------|------|----------|------------------|------|----------|
| PCB-1 | 407 | 500 | 81.3 | 60 - 135 | IS 13C-PCB-1 | 89.1 | 15 - 145 |
| PCB-3 | 407 | 500 | 81.3 | 60 - 135 | IS 13C-PCB-3 | 94.1 | 15 - 145 |
| PCB-4/10 | 2110 | 2000 | 106 | 60 - 135 | IS 13C-PCB-4 | 65.1 | 15 - 145 |
| PCB-15 | 1050 | 1000 | 105 | 60 - 135 | IS 13C-PCB-11 | 72.9 | 15 - 145 |
| PCB-19 | 480 | 500 | 96.0 | 60 - 135 | IS 13C-PCB-9 | 67.7 | 15 - 145 |
| PCB-37 | 546 | 500 | 109 | 60 - 135 | IS 13C-PCB-19 | 86.1 | 15 - 145 |
| PCB-54 | 498 | 500 | 99.7 | 60 - 135 | IS 13C-PCB-28 | 75.0 | 15 - 145 |
| PCB-77 | 525 | 500 | 105 | 60 - 135 | IS 13C-PCB-32 | 90.6 | 15 - 145 |
| PCB-81 | 497 | 500 | 99.3 | 60 - 135 | IS 13C-PCB-37 | 82.2 | 15 - 145 |
| PCB-104 | 530 | 500 | 106 | 60 - 135 | IS 13C-PCB-47 | 71.6 | 15 - 145 |
| PCB-105 | 516 | 500 | 103 | 60 - 135 | IS 13C-PCB-52 | 70.0 | 15 - 145 |
| PCB-106/118 | 1050 | 1000 | 105 | 60 - 135 | IS 13C-PCB-54 | 63.3 | 15 - 145 |
| PCB-114 | 512 | 500 | 102 | 60 - 135 | IS 13C-PCB-70 | 73.0 | 15 - 145 |
| PCB-123 | 514 | 500 | 103 | 60 - 135 | IS 13C-PCB-77 | 85.1 | 40 - 145 |
| PCB-126 | 529 | 500 | 106 | 60 - 135 | IS 13C-PCB-80 | 74.7 | 40 - 145 |
| PCB-155 | 497 | 500 | 99.5 | 60 - 135 | IS 13C-PCB-81 | 84.6 | 40 - 145 |
| PCB-156 | 489 | 500 | 97.7 | 60 - 135 | IS 13C-PCB-95 | 71.3 | 40 - 145 |
| PCB-157 | 473 | 500 | 94.6 | 60 - 135 | IS 13C-PCB-97 | 82.9 | 40 - 145 |
| PCB-167 | 484 | 500 | 96.8 | 60 - 135 | IS 13C-PCB-101 | 80.0 | 40 - 145 |
| PCB-169 | 472 | 500 | 94.4 | 60 - 135 | IS 13C-PCB-104 | 68.1 | 40 - 145 |
| PCB-188 | 498 | 500 | 99.5 | 60 - 135 | IS 13C-PCB-105 | 68.8 | 40 - 145 |
| PCB-189 | 488 | 500 | 97.5 | 60 - 135 | IS 13C-PCB-114 | 68.5 | 40 - 145 |
| PCB-202 | 489 | 500 | 97.8 | 60 - 135 | IS 13C-PCB-118 | 84.2 | 40 - 145 |
| PCB-205 | 482 | 500 | 96.5 | 60 - 135 | IS 13C-PCB-123 | 85.7 | 40 - 145 |
| PCB-206 | 522 | 500 | 104 | 60 - 135 | IS 13C-PCB-126 | 69.4 | 40 - 145 |
| PCB-208 | 513 | 500 | 103 | 60 - 135 | IS 13C-PCB-127 | 69.5 | 40 - 145 |
| PCB-209 | 507 | 500 | 101 | 60 - 135 | IS 13C-PCB-138 | 80.6 | 40 - 145 |
| | | | | | IS 13C-PCB-141 | 78.6 | 40 - 145 |
| | | | | | IS 13C-PCB-153 | 79.7 | 40 - 145 |
| | | | | | IS 13C-PCB-155 | 85.7 | 40 - 145 |
| | | | | | IS 13C-PCB-156 | 81.3 | 40 - 145 |
| | | | | | IS 13C-PCB-157 | 82.3 | 40 - 145 |
| | | | | | IS 13C-PCB-159 | 81.5 | 40 - 145 |
| | | | | | IS 13C-PCB-167 | 81.3 | 40 - 145 |
| | | | | | IS 13C-PCB-169 | 82.2 | 40 - 145 |
| | | | | | IS 13C-PCB-170 | 92.4 | 40 - 145 |
| | | | | | IS 13C-PCB-180 | 90.4 | 40 - 145 |
| | | | | | IS 13C-PCB-188 | 84.2 | 40 - 145 |
| | | | | | IS 13C-PCB-189 | 89.8 | 40 - 145 |
| | | | | | IS 13C-PCB-194 | 87.2 | 40 - 145 |

Sample ID: OPR

EPA Method 1668C

Matrix: Solid
Sample Size: 10.0 g

QC Batch: B4I0061
Date Extracted: 16-Sep-2014 13:26

Lab Sample: B4I0061-BS1
Date Analyzed: 20-Sep-14 01:51 Column: ZB-1 Analyst: MAS

| Analyte | Amt Found (pg/g) | Spike Amt | %R | Limits | Labeled Standard | %R | LCL-UCL |
|---------|------------------|-----------|----|--------|------------------|------|----------|
| | | | | | IS 13C-PCB-202 | 101 | 40 - 145 |
| | | | | | IS 13C-PCB-206 | 85.5 | 40 - 145 |
| | | | | | IS 13C-PCB-208 | 85.8 | 40 - 145 |
| | | | | | IS 13C-PCB-209 | 93.7 | 40 - 145 |
| | | | | | CRS 13C-PCB-79 | 84.9 | 40 - 145 |
| | | | | | CRS 13C-PCB-178 | 90.5 | 40 - 145 |

LCL-UCL - Lower control limit - upper control limit

Sample ID: PS-TS-01-20140909-S

EPA Method 1668C

| Client Data | | | Sample Data | | | Laboratory Data | | | |
|-----------------|------------------------|--|--------------|----------|--|-----------------|-----------------|-----------------|-------------------|
| Name: | Leidos | | Matrix: | Sediment | | Lab Sample: | 1400659-03 | Date Received: | 10-Sep-2014 9:29 |
| Project: | NPDES Sampling Support | | Sample Size: | 13.4 g | | QC Batch: | B410061 | Date Extracted: | 16-Sep-2014 13:26 |
| Date Collected: | 09-Sep-2014 13:50 | | % Solids: | 75.4 | | Date Analyzed : | 20-Sep-14 07:13 | Column: | ZB-1 Analyst: DMS |
| | | | | | | | 24-Sep-14 17:35 | Column: | ZB-1 Analyst: DMS |

| Analyte | Conc. (pg/g) | RL | DL | EMPC | MDL | Qualifiers | Analyte | Conc. (pg/g) | RL | DL | EMPC | MDL | Qualifiers |
|-----------------|--------------|------|------|------|-------|------------|----------------|--------------|------|------|------|-------|------------|
| PCB-1 | 273 | 49.4 | | | 0.320 | D | PCB-44 | 275 | 49.4 | | | 0.745 | D |
| PCB-2 | 68.4 | 49.4 | | | 0.240 | D | PCB-45 | ND | 49.4 | | 24.5 | 0.402 | D |
| PCB-3 | 103 | 49.4 | | | 0.323 | D | PCB-46 | ND | 49.4 | 22.7 | | 0.537 | D |
| PCB-4/10 | 127 | 198 | | | 1.14 | J, D | PCB-47 | 48.7 | 49.4 | | | 2.19 | J, D |
| PCB-5/8 | 290 | 198 | | | 1.76 | D | PCB-48/75 | 37.8 | 98.9 | | | 0.983 | J, D |
| PCB-6 | 103 | 98.9 | | | 1.00 | D | PCB-50 | ND | 49.4 | 18.3 | | 0.603 | D |
| PCB-7/9 | 97.5 | 198 | | | 1.34 | J, D | PCB-51 | ND | 49.4 | 19.4 | | 0.789 | D |
| PCB-11 | 1160 | 98.9 | | | 3.48 | D | PCB-52/69 | 326 | 98.9 | | | 0.722 | D |
| PCB-12/13 | 65.4 | 198 | | | 1.37 | J, D | PCB-53 | ND | 49.4 | | 26.0 | 0.331 | D |
| PCB-14 | ND | 98.9 | 47.9 | | 0.337 | D | PCB-54 | ND | 49.4 | 14.6 | | 0.275 | D |
| PCB-15 | 123 | 98.9 | | | 0.634 | D | PCB-55 | ND | 49.4 | 19.3 | | 0.416 | D |
| PCB-16/32 | 101 | 198 | | | 0.430 | J, D | PCB-56/60 | 163 | 98.9 | | | 0.825 | D |
| PCB-17 | 47.3 | 49.4 | | | 0.658 | J, D | PCB-57 | ND | 49.4 | 23.7 | | 0.354 | D |
| PCB-18 | 141 | 49.4 | | | 0.696 | D | PCB-58 | ND | 49.4 | 25.0 | | 0.589 | D |
| PCB-19 | ND | 49.4 | 11.5 | | 0.612 | D | PCB-61/70 | 432 | 98.9 | | | 1.20 | D |
| PCB-20/21/33 | 106 | 148 | | | 2.47 | J, D | PCB-62 | ND | 49.4 | 22.2 | | 0.597 | D |
| PCB-22 | 53.5 | 49.4 | | | 0.964 | D | PCB-63 | ND | 49.4 | 24.3 | | 0.524 | D |
| PCB-23 | ND | 49.4 | 10.4 | | 0.543 | D | PCB-65 | ND | 49.4 | 22.1 | | 0.842 | D |
| PCB-24/27 | 15.3 | 98.9 | | | 0.742 | J, D | PCB-66/76 | 205 | 98.9 | | | 1.31 | D |
| PCB-25 | ND | 49.4 | | 15.4 | 0.768 | D | PCB-67 | ND | 49.4 | 20.9 | | 0.486 | D |
| PCB-26 | ND | 49.4 | | 34.7 | 0.766 | D | PCB-68 | ND | 49.4 | 20.1 | | 0.658 | D |
| PCB-28 | 125 | 49.4 | | | 1.12 | D | PCB-73 | ND | 49.4 | 18.7 | | 0.454 | D |
| PCB-29 | ND | 49.4 | 12.3 | | 0.949 | D | PCB-74 | 100 | 49.4 | | | 0.781 | D |
| PCB-30 | ND | 49.4 | 7.04 | | 0.355 | D | PCB-77 | 127 | 49.4 | | | 0.748 | D |
| PCB-31 | 141 | 49.4 | | | 0.809 | D | PCB-78 | ND | 49.4 | 19.9 | | 0.385 | D |
| PCB-34 | ND | 49.4 | 11.7 | | 1.57 | D | PCB-79 | 20.0 | 49.4 | | | 0.633 | J, D |
| PCB-35 | 38.5 | 49.4 | | | 0.565 | J, D | PCB-80 | ND | 49.4 | 16.9 | | 0.336 | D |
| PCB-36 | ND | 49.4 | 13.9 | | 0.406 | D | PCB-81 | ND | 49.4 | 19.0 | | 0.674 | D |
| PCB-37 | 94.0 | 49.4 | | | 0.389 | D | PCB-82 | 156 | 49.4 | | | 0.981 | D |
| PCB-38 | ND | 49.4 | 13.2 | | 0.528 | D | PCB-83 | ND | 49.4 | 21.7 | | 0.440 | D |
| PCB-39 | ND | 49.4 | 14.2 | | 0.461 | D | PCB-84/92 | 513 | 98.9 | | | 1.01 | D |
| PCB-40 | 74.1 | 49.4 | | | 0.927 | D | PCB-85/116 | 195 | 98.9 | | | 1.64 | D |
| PCB-41/64/71/72 | 224 | 198 | | | 1.70 | D | PCB-86 | ND | 49.4 | 39.1 | | 1.79 | D |
| PCB-42/59 | 69.0 | 98.9 | | | 0.899 | J, D | PCB-87/117/125 | 469 | 148 | | | 0.880 | D |
| PCB-43/49 | 172 | 98.9 | | | 0.879 | D | PCB-88/91 | 131 | 98.9 | | | 1.25 | D |

RL - Reporting limit

DL - Sample specific 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: PS-TS-01-20140909-S

EPA Method 1668C

| Client Data | | | | Sample Data | | | Laboratory Data | | | | | | |
|-----------------|------------------------|--|--|--------------|----------|--|-----------------|-----------------|-----------------|-----------------|---------------------------|--|--|
| Name: | Leidos | | | Matrix: | Sediment | | Lab Sample: | 1400659-03 | | Date Received: | 10-Sep-2014 9:29 | | |
| Project: | NPDES Sampling Support | | | Sample Size: | 13.4 g | | QC Batch: | B410061 | | Date Extracted: | 16-Sep-2014 13:26 | | |
| Date Collected: | 09-Sep-2014 13:50 | | | % Solids: | 75.4 | | Date Analyzed : | 20-Sep-14 07:13 | | Column: | ZB-1 Analyst: DMS | | |
| | | | | | | | | | 24-Sep-14 17:35 | | Column: ZB-1 Analyst: DMS | | |

| Analyte | Conc. (pg/g) | RL | DL | EMPC | MDL | Qualifiers | Analyte | Conc. (pg/g) | RL | DL | EMPC | MDL | Qualifiers |
|---------------|--------------|------|------|------|-------|------------|-----------------|--------------|------|------|------|-------|------------|
| PCB-89 | ND | 49.4 | | 8.48 | 1.22 | D | PCB-136 | 251 | 49.4 | | | 0.776 | D |
| PCB-90/101 | 1570 | 98.9 | | | 1.19 | D | PCB-137 | 104 | 49.4 | | | 0.541 | D |
| PCB-93 | ND | 49.4 | 39.1 | | 1.42 | D | PCB-138/163/164 | 2170 | 148 | | | 0.809 | D |
| PCB-94 | ND | 49.4 | 31.2 | | 0.874 | D | PCB-139/149 | 1860 | 49.4 | | | 1.49 | D |
| PCB-95/98/102 | 823 | 148 | | | 1.38 | D | PCB-140 | ND | 49.4 | 25.6 | | 1.20 | D |
| PCB-96 | ND | 49.4 | 23.0 | | 0.588 | D | PCB-141 | 486 | 49.4 | | | 0.678 | D |
| PCB-97 | 352 | 49.4 | | | 0.675 | D | PCB-144 | 127 | 49.4 | | | 1.38 | D |
| PCB-99 | 450 | 49.4 | | | 0.474 | D | PCB-145 | ND | 49.4 | 15.4 | | 1.05 | D |
| PCB-100 | ND | 49.4 | 27.9 | | 0.511 | D | PCB-146/165 | 284 | 98.9 | | | 0.792 | D |
| PCB-103 | ND | 49.4 | 27.4 | | 0.428 | D | PCB-147 | ND | 49.4 | | 25.8 | 1.65 | D |
| PCB-104 | ND | 49.4 | 22.1 | | 0.876 | D | PCB-148 | ND | 49.4 | 24.9 | | 1.45 | D |
| PCB-105 | 472 | 49.4 | | | 0.462 | D | PCB-150 | ND | 49.4 | 18.5 | | 0.801 | D |
| PCB-106/118 | 1220 | 98.9 | | | 0.728 | D | PCB-151 | 596 | 49.4 | | | 1.16 | D |
| PCB-107/109 | 75.5 | 98.9 | | | 0.631 | J, D | PCB-152 | ND | 49.4 | 16.6 | | 0.744 | D |
| PCB-108/112 | 65.1 | 98.9 | | | 0.844 | J, D | PCB-153 | 1870 | 49.4 | | | 0.484 | D |
| PCB-110 | 1490 | 49.4 | | | 0.555 | D | PCB-154 | 28.4 | 49.4 | | | 0.837 | J, D |
| PCB-111/115 | ND | 98.9 | | 24.0 | 1.24 | D | PCB-155 | ND | 49.4 | 16.6 | | 0.767 | D |
| PCB-113 | ND | 49.4 | | 41.2 | 0.495 | D | PCB-156 | 203 | 49.4 | | | 0.534 | D |
| PCB-114 | ND | 49.4 | 54.6 | | 0.418 | D | PCB-157 | 53.2 | 49.4 | | | 0.485 | D |
| PCB-119 | ND | 49.4 | 21.5 | | 0.383 | D | PCB-158/160 | 243 | 98.9 | | | 0.915 | D |
| PCB-120 | ND | 49.4 | 19.7 | | 0.622 | D | PCB-159 | ND | 49.4 | 33.3 | | 0.578 | D |
| PCB-121 | ND | 49.4 | 20.4 | | 0.978 | D | PCB-166 | ND | 49.4 | 31.2 | | 0.425 | D |
| PCB-122 | ND | 49.4 | 63.1 | | 0.619 | D | PCB-167 | 77.0 | 49.4 | | | 0.653 | D |
| PCB-123 | 23.7 | 49.4 | | | 0.494 | J, D | PCB-168 | ND | 49.4 | 23.6 | | 0.502 | D |
| PCB-124 | ND | 49.4 | | 52.0 | 0.813 | D | PCB-169 | ND | 49.4 | 36.1 | | 0.767 | D |
| PCB-126 | ND | 49.4 | 78.3 | | 0.543 | D | PCB-170 | 698 | 49.4 | | | 0.758 | D |
| PCB-127 | ND | 49.4 | 53.3 | | 0.326 | D | PCB-171 | 184 | 49.4 | | | 0.372 | D |
| PCB-128/162 | 350 | 98.9 | | | 1.08 | D | PCB-172 | 130 | 49.4 | | | 0.857 | D |
| PCB-129 | 101 | 49.4 | | | 0.567 | D | PCB-173 | ND | 49.4 | 29.9 | | 0.507 | D |
| PCB-130 | 145 | 49.4 | | | 0.798 | D | PCB-174 | 967 | 49.4 | | | 0.797 | D |
| PCB-131 | ND | 49.4 | 37.6 | | 0.731 | D | PCB-175 | 42.2 | 49.4 | | | 0.679 | J, D |
| PCB-132/161 | 586 | 98.9 | | | 1.05 | D | PCB-176 | 120 | 49.4 | | | 0.729 | D |
| PCB-133/142 | 83.2 | 98.9 | | | 1.04 | J, D | PCB-177 | 526 | 49.4 | | | 0.404 | D |
| PCB-134/143 | 114 | 98.9 | | | 1.05 | D | PCB-178 | 197 | 49.4 | | | 0.610 | D |
| PCB-135 | 274 | 49.4 | | | 1.47 | D | PCB-179 | 472 | 49.4 | | | 0.418 | D |

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specific 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: PS-TS-01-20140909-S

EPA Method 1668C

| | | | | | | | | | | | | |
|--------------------|------------------------|--|--|--------------------|----------|--|---|---|-----------------|-------------------|--|--|
| Client Data | | | | Sample Data | | | Laboratory Data | | | | | |
| Name: | Leidos | | | Matrix: | Sediment | | Lab Sample: | 1400659-03 | Date Received: | 10-Sep-2014 9:29 | | |
| Project: | NPDES Sampling Support | | | Sample Size: | 13.4 g | | QC Batch: | B4I0061 | Date Extracted: | 16-Sep-2014 13:26 | | |
| Date Collected: | 09-Sep-2014 13:50 | | | % Solids: | 75.4 | | Date Analyzed : | 20-Sep-14 07:13 Column: ZB-1 Analyst: DMS | | | | |
| | | | | | | | 24-Sep-14 17:35 Column: ZB-1 Analyst: DMS | | | | | |

| Analyte | Conc. (pg/g) | RL | DL | EMPC | MDL | Qualifiers | Analyte | Conc. (pg/g) | RL | DL | EMPC | MDL | Qualifiers |
|---------------|--------------|------|------|------|-------|------------|--------------|--------------|------|----|------|-----|------------|
| PCB-180 | 2240 | 49.4 | | | 0.420 | D | Total octaCB | 2650 | 49.4 | | | | |
| PCB-181 | ND | 49.4 | 24.1 | | 1.26 | D | Total nonaCB | 566 | 49.4 | | 621 | | |
| PCB-182/187 | 1110 | 98.9 | | | 1.33 | D | DecaCB | 92.2 | 49.4 | | | | |
| PCB-183 | 492 | 49.4 | | | 0.638 | D | Total PCB | 34400 | 98.9 | | | | |
| PCB-184 | ND | 49.4 | 14.0 | | 0.597 | D | | | | | | | |
| PCB-185 | 104 | 49.4 | | | 0.557 | D | | | | | | | |
| PCB-186 | ND | 49.4 | 15.8 | | 0.421 | D | | | | | | | |
| PCB-188 | ND | 49.4 | 14.5 | | 0.759 | D | | | | | | | |
| PCB-189 | ND | 49.4 | | 56.3 | 0.483 | D | | | | | | | |
| PCB-190 | 129 | 49.4 | | | 0.686 | D | | | | | | | |
| PCB-191 | 35.8 | 49.4 | | | 0.447 | J, D | | | | | | | |
| PCB-192 | ND | 49.4 | 19.1 | | 0.528 | D | | | | | | | |
| PCB-193 | 106 | 49.4 | | | 0.836 | D | | | | | | | |
| PCB-194 | 549 | 49.4 | | | 0.645 | D | | | | | | | |
| PCB-195 | 206 | 49.4 | | | 0.722 | D | | | | | | | |
| PCB-196/203 | 735 | 98.9 | | | 0.983 | D | | | | | | | |
| PCB-197 | 39.8 | 49.4 | | | 0.794 | J, D | | | | | | | |
| PCB-198 | ND | 49.4 | 42.7 | | 0.792 | D | | | | | | | |
| PCB-199 | 728 | 49.4 | | | 0.615 | D | | | | | | | |
| PCB-200 | 92.2 | 49.4 | | | 0.795 | D | | | | | | | |
| PCB-201 | 132 | 49.4 | | | 0.317 | D | | | | | | | |
| PCB-202 | 172 | 49.4 | | | 0.759 | D | | | | | | | |
| PCB-204 | ND | 49.4 | 28.3 | | 0.543 | D | | | | | | | |
| PCB-205 | ND | 49.4 | 38.6 | | 0.471 | D | | | | | | | |
| PCB-206 | 440 | 49.4 | | | 0.852 | D | | | | | | | |
| PCB-207 | ND | 49.4 | | 54.8 | 0.402 | D | | | | | | | |
| PCB-208 | 126 | 49.4 | | | 0.441 | D | | | | | | | |
| PCB-209 | 92.2 | 49.4 | | | 1.10 | D | | | | | | | |
| Total monoCB | 444 | 49.4 | | | | | | | | | | | |
| Total diCB | 1960 | 98.9 | | | | | | | | | | | |
| Total triCB | 863 | 49.4 | | 913 | | | | | | | | | |
| Total tetraCB | 2270 | 49.4 | | 2320 | | | | | | | | | |
| Total pentaCB | 8000 | 49.4 | | 8130 | | | | | | | | | |
| Total hexaCB | 10000 | 49.4 | | | | | | | | | | | |
| Total heptaCB | 7550 | 49.4 | | 7600 | | | | | | | | | |

RL - Reporting limit

DL - Sample specific 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: PS-TS-01-20140909-S

EPA Method 1668C

| | | | | | | | |
|--------------------|------------------------|--------------------|----------|------------------------|-----------------|-----------------|-------------------|
| Client Data | | Sample Data | | Laboratory Data | | | |
| Name: | Leidos | Matrix: | Sediment | Lab Sample: | 1400659-03 | Date Received: | 10-Sep-2014 9:29 |
| Project: | NPDES Sampling Support | Sample Size: | 13.4 g | QC Batch: | B4I0061 | Date Extracted: | 16-Sep-2014 13:26 |
| Date Collected: | 09-Sep-2014 13:50 | % Solids: | 75.4 | Date Analyzed : | 20-Sep-14 07:13 | Column: ZB-1 | Analyst: DMS |
| | | | | | 24-Sep-14 17:35 | Column: ZB-1 | Analyst: DMS |

| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|------|---------|------------|------------------|------|---------|------------|
| IS 13C-PCB-1 | 118 | 5 -145 | D | 13C-PCB-170 | 79.8 | 10 -145 | D |
| 13C-PCB-3 | 117 | 5 -145 | D | 13C-PCB-180 | 83.7 | 10 -145 | D |
| 13C-PCB-4 | 85.4 | 5 -145 | D | 13C-PCB-188 | 90.8 | 10 -145 | D |
| 13C-PCB-11 | 89.6 | 5 -145 | D | 13C-PCB-189 | 65.5 | 10 -145 | D |
| 13C-PCB-9 | 86.2 | 5 -145 | D | 13C-PCB-194 | 98.5 | 10 -145 | D |
| 13C-PCB-19 | 109 | 5 -145 | D | 13C-PCB-202 | 89.9 | 10 -145 | D |
| 13C-PCB-28 | 98.1 | 5 -145 | D | 13C-PCB-206 | 82.3 | 10 -145 | D |
| 13C-PCB-32 | 110 | 5 -145 | D | 13C-PCB-208 | 91.7 | 10 -145 | D |
| 13C-PCB-37 | 105 | 5 -145 | D | 13C-PCB-209 | 83.8 | 10 -145 | D |
| 13C-PCB-47 | 88.0 | 5 -145 | D | CRS 13C-PCB-79 | 95.3 | 10 -145 | D |
| 13C-PCB-52 | 91.7 | 5 -145 | D | 13C-PCB-178 | 97.7 | 10 -145 | D |
| 13C-PCB-54 | 88.5 | 5 -145 | D | | | | |
| 13C-PCB-70 | 90.9 | 5 -145 | D | | | | |
| 13C-PCB-77 | 84.4 | 10 -145 | D | | | | |
| 13C-PCB-80 | 91.1 | 10 -145 | D | | | | |
| 13C-PCB-81 | 87.2 | 10 -145 | D | | | | |
| 13C-PCB-95 | 91.9 | 10 -145 | D | | | | |
| 13C-PCB-97 | 93.1 | 10 -145 | D | | | | |
| 13C-PCB-101 | 91.8 | 10 -145 | D | | | | |
| 13C-PCB-104 | 93.1 | 10 -145 | D | | | | |
| 13C-PCB-105 | 82.9 | 10 -145 | D | | | | |
| 13C-PCB-114 | 88.4 | 10 -145 | D | | | | |
| 13C-PCB-118 | 90.0 | 10 -145 | D | | | | |
| 13C-PCB-123 | 92.6 | 10 -145 | D | | | | |
| 13C-PCB-126 | 77.5 | 10 -145 | D | | | | |
| 13C-PCB-127 | 83.3 | 10 -145 | D | | | | |
| 13C-PCB-138 | 89.1 | 10 -145 | D | | | | |
| 13C-PCB-141 | 91.4 | 10 -145 | D | | | | |
| 13C-PCB-153 | 94.9 | 10 -145 | D | | | | |
| 13C-PCB-155 | 104 | 10 -145 | D | | | | |
| 13C-PCB-156 | 80.9 | 10 -145 | D | | | | |
| 13C-PCB-157 | 88.5 | 10 -145 | D | | | | |
| 13C-PCB-159 | 81.7 | 10 -145 | D | | | | |
| 13C-PCB-167 | 83.3 | 10 -145 | D | | | | |
| 13C-PCB-169 | 70.6 | 10 -145 | D | | | | |

RL - Reporting limit

DL - Sample specific 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 |
| Connecticut Department of Public Health | PH-0182 |
| 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

FOR LABORATORY USE ONLY Storage Secured Yes No
 Laboratory Project ID: 1400659 Temp 4.7 °C
 Storage ID: WR-2

Project I.D.: NPDES Sampling Support P.O.#: - Sampler: Corey Wilson
Corey Wilson Leidos 18912 N Creek Pkwy Bothell (Name) WA 98011
 Invoice to: Name Company Address City State Zip Ph# Fax#

TAT: (Check One):
 Standard: 21 Days
 Rush (surcharge may apply):
 14 days 7 days Specify: -

Relinquished by: (Signature and Printed Name) Corey Wilson Date: 9/9/14 Time: 1530 Received by: (Signature and Printed Name) B. Benedict Date: 09/10/14 Time: 0937
 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
 Method of Shipment: _____
 Tracking No.: _____

| Container(s) | | Add Analysis(es) Requested | | | | | | | | | | | | | | | | | | | | | |
|--------------|------|----------------------------|-----------|----------------|-----------|-----------|----------------|-----------|-----------|----------------|-----------|--------|----------------|---------------|------|-----|--------|---------|---------|---------|---------|---------|---------|
| Quantity | Type | Matrix | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | TOTALS | COPLANAR PCB's | 209 CONGENERS | PBDE | PAH | WHO-29 | EPA1613 | EPA8290 | EPA8280 | EPA1668 | EPA1614 | CARB429 |

| Sample ID | Date | Time | Location/Sample Description | Quantity | Type | Matrix | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | TOTALS | COPLANAR PCB's | 209 CONGENERS | PBDE | PAH | WHO-29 | EPA1613 | EPA8290 | EPA8280 | EPA1668 | EPA1614 | CARB429 | |
|---------------------|--------|------|-----------------------------|----------|------|--------|-----------|----------------|-----------|-----------|----------------|-----------|-----------|----------------|-----------|--------|----------------|---------------|------|-----|--------|---------|---------|---------|---------|---------|---------|--|
| PS-TS-01-20140909-W | 9/9/14 | 1115 | Sump Pump/Influent | 4 | A | AQ | ✓ | | | | | | | | | ✓ | ✓ | | | | | | | | | | | |
| PS-TS-01-20140909-W | 9/9/14 | 1220 | Bypass/Onsite water | 4 | A | AQ | ✓ | | | | | | | | | ✓ | ✓ | | | | | | | | | | | |
| PS-TS-01-20140909-S | 9/9/14 | 1350 | Sump Pump/Influent | 1 | G | SD | ✓ | | | | | | | | | ✓ | ✓ | | | | | | | | | | | |

Special Instructions/Comments: Please contact Leidos PM prior to disposal of any samples. Refer to contract agreement for confirmation of all analysis

SEND DOCUMENTATION AND RESULTS TO:

Name: Christine Nancarrow
 Company: Leidos
 Address: 18912 N Creek Pkwy, Ste 101
 City: Bothell State: WA Zip: 98011
 Phone: 206.300.2144 Fax: _____
 Email: nancarrow@leidos.com
 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

Container Types: A = 1 Liter Amber, G = Glass Jar
 P = PUF, T = MM5 Train, O = Other _____

*Bottle Preservative Type: T = Thiosulfate, O = Other _____

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1400659 TAT Std.

| | | | |
|---------------------|----------------------------|-------------------|--------------------------|
| Samples Arrival: | Date/Time 09/10/14 0929 | Initials: CBAB | Location: <u>WR-2</u> |
| | | | Shelf/Rack: <u>NA</u> |
| Logged In: | Date/Time 09/10/14 1303 | Initials: CBAB | Location: <u>WR-2</u> |
| | | | Shelf/Rack: <u>B4/F3</u> |
| Delivered By: | <u>FedEx</u> | UPS | On Trac |
| | | DHL | Hand Delivered |
| | | | Other |
| Preservation: | <u>Ice</u> | Blue Ice | Dry Ice |
| | | | None |
| Temp °C: <u>4.6</u> | (uncorrected) | Time: <u>0938</u> | Thermometer ID: IR-2 |
| Temp °C: <u>4.7</u> | (corrected) | | |

| | | YES | NO | NA |
|--|-----------------------------|--------|------------------|---------|
| Adequate Sample Volume Received? | | ✓ | | |
| Holding Time Acceptable? | | ✓ | | |
| Shipping Container(s) Intact? | | ✓ | | |
| Shipping Custody Seals Intact? | | ✓ | | |
| Shipping Documentation Present? | | ✓ | | |
| Airbill | Trk # <u>8746 1313 0451</u> | ✓ | | |
| 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 ₂ S ₂ O ₃ Preservation Documented? | <u>NA</u> | COC | Sample Container | None |
| Shipping Container | <u>Vista</u> | Client | <u>Retain</u> | Return |
| | | | | Dispose |

Comments:

Sample: PS-TS-01-20140909-S rec'd broken
see images

Chain of Custody Anomaly/Sample Acceptance Form



Client: Leidos
 Contact: Christine Nancarrow
 Email: christine.f.nancarrow@leidos.com
 Phone:

Workorder Number: 1400659
 Date Received: 10-Sep-14 09:29
 Documented by/date: B.Benedict 09/10/2014

Please review the following information and complete the Client Authorization section. To comply with NELAC regulations, we must receive authorization before proceeding with sample analysis.

Thank you,

Martha Maier
 mmaier@vista-analytical.com
 916-673-1520

The following information or item is needed to proceed with analysis:

- | | | |
|--|---|---|
| <input type="checkbox"/> Complete Chain-of-Custody | <input type="checkbox"/> Preservative | <input type="checkbox"/> Collector's Name |
| <input type="checkbox"/> Test Method Requested | <input type="checkbox"/> Sample Identification | <input type="checkbox"/> Sample Type |
| <input type="checkbox"/> Analyte List Requested | <input type="checkbox"/> Sample Collection Date and/or Time | <input type="checkbox"/> Sample Location |
| <input type="checkbox"/> Other: | | |

The following anomalies were noted. Authorization is needed to proceed with analysis.

- | | | | |
|--|---|-----|-----------|
| <input type="checkbox"/> Temperature outside < 6°C Range | Samples Affected: _____ | | |
| Temperature _____ °C | Ice Present? | Yes | No Melted |
| <input type="checkbox"/> Sample ID Discrepancy | <input type="checkbox"/> Insufficient Sample Size | | |
| <input type="checkbox"/> Sample Holding Time Missed | <input checked="" type="checkbox"/> Sample Container(s) Broken: PS-TS-01-20140909-S | | |
| <input type="checkbox"/> Custody Seals Broken | <input type="checkbox"/> Incorrect Container Type | | |

Comments:

| | |
|--|--------------------------------------|
| Client Authorization | |
| Proceed with Analysis: <input checked="" type="radio"/> YES <input type="radio"/> NO | Signature and Date <u>mm 9/25/14</u> |
| Client Comments/Instructions <u>sample transferred to new jar</u> | |

EXTRACTION INFORMATION

Process Sheet

Workorder: **1400659**

Prep Expiration: 09/09/2015

Client: Leidos

Workorder Due: 01-Oct-14 00:00

TAT: 21

Method: **1613 Full List**

Matrix: **Aqueous**

Client Matrix: Aqueous

Also run: **Percent Solids**

Prep Batch: B410066

9/22/14 es 9/22/14

Prep Data Entered: 9/21/14 es

Date and Initials

Initial Sequence: S410040

| LabSampleID | Recon | ClientSampleID | Date Received | Location | Comments |
|-------------|--|---------------------|-----------------|----------|----------|
| 1400659-01 | <u>H</u> <input checked="" type="checkbox"/> | PS-TS-01-20140909-W | 10-Sep-14 09:29 | WR-2 B-4 | |
| 1400659-02 | <u>J</u> <input checked="" type="checkbox"/> | PS-OS-01-20140909-W | 10-Sep-14 09:29 | WR-2 B-4 | |

Vista PM: Martha Maier

Vial Box ID: Camping

Sample Reconciled By: B-Smith 9/17/14

Percent Moisture/ Percent Solids

D2216-90

BATCH ID

B410064

Analyst: B. Smith

Test Code: %Moist/%Solids

Analyte:

Units: %

Dried at 110°C+/-5°C

Date/Time IN: 9/17/14 0939
 Date/Time OUT: 9/20/14 1536

INST HRMS-4

| Pan # | SampID | Source ID | SampType | Intial and Date: | BMS 9/17/14 | | BMS 9/20/14 | | Dry Sample Weight (g) | %Solids RawVal | BMS 9/17/14 | | | CI- |
|-------|---------------|-----------|----------|--------------------|-------------------------------|-------------------------------|-------------|----------|-----------------------|----------------|-------------|---|--|-----|
| | | | | Pan Tare Wt. (gms) | Wet Pan and Sample Weight (g) | Dry Pan and Sample Weight (g) | pH Before | pH After | | | Acid Added | | | |
| | 1400659-01RE1 | | Sample | 1.2300 | 22.4900 | 1.2400 | 0.0100 | 0.05 | 7 | N/A | N/A | 0 | | |
| | 1400659-02RE1 | | Sample | 1.2500 | 20.8100 | 1.2600 | 0.0100 | 0.05 | 7 | N/A | N/A | 0 | | |
| | 1400664-01RE1 | | Sample | 1.2500 | 27.2600 | 1.3200 | 0.0700 | 0.27 | 7 | N/A | N/A | 0 | | |
| | 1400665-04RE1 | | Sample | 1.2300 | 21.4600 | 1.2400 | 0.0100 | 0.05 | 6 | N/A | N/A | 0 | | |
| | 1400666-01 | | Sample | 1.2600 | 16.9200 | 1.4200 | 0.1600 | 1.02 | 8 | N/A | N/A | 0 | | |
| | 1400668-01 | | Sample | 1.2300 | 18.3100 | 1.2400 | 0.0100 | 0.06 | 5 | N/A | N/A | 0 | | |
| | 1400668-02 | | Sample | 1.2300 | 19.7400 | 1.2300 | 0.0000 | 0.00 | 5 | N/A | N/A | 0 | | |
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D2216-90

BATCH ID

B410064

Analyst: B. Smith

Test Code: %Moist/%Solids

Analyte:

Units: %

Dried at 110°C+/-5°C

Date/Time IN: Date/Time OUT

9/17/14 0939 9/20/14 1536

INST HRMS-4

| Pan # | SampID | Source ID | SampType | Initial and Date: | | Dry Pan and Sample Weight (g) | %Solids RawVal | pH Before | pH After | Acid Added | Cl- |
|-------|---------------|-----------|----------|--------------------|-------------------------------|-------------------------------|----------------|-----------|----------|------------|-----|
| | | | | Pan Tare Wt. (gms) | Wet Pan and Sample Weight (g) | | | | | | |
| | 1400659-01RE1 | | Sample | 1.23 | 22.49 | 1.24 | | 7 | NA | NA | 0 |
| | 1400659-02RE1 | | Sample | 1.25 | 20.81 | 1.26 | | 7 | | | |
| | 1400664-01RE1 | | Sample | 1.25 | 27.26 | 1.32 | | 7 | | | |
| | 1400665-04RE1 | | Sample | 1.23 | 21.96 | 1.24 | | 6 | | | |
| | 1400666-01 | | Sample | 1.26 | 16.92 | 1.42 | | 8 | | | |
| | 1400668-01 | | Sample | 1.23 | 18.31 | 1.24 | | 5 | | | |
| | 1400668-02 | | Sample | 1.23 | 19.74 | 1.23 | | 5 | ↓ | ↓ | ↓ |

PREPARATION BENCH SHEET

Matrix: Aqueous

B4I0066

Chemist: A. Clark

Method: 1613 Full List

Prep Date/Time: 17-Sep-14 08:29
19 08:01

Method: 1613 TCDD Only

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 | MA | C4I0084 | C4I0084 | C4I0085 | RS CHEM/WIT DATE |
|--------------------------|-----------------|---------------------|-----------------|-----------------|---------------------|-------------------|--------------|----------------|--------------|--------------------|------------------|
| | | | | | | | AP CHEM/DATE | ABSG CHEM/DATE | AA CHEM/DATE | Florisil CHEM/DATE | |
| <input type="checkbox"/> | B4I0066-BLK1 | MA | MA | (1.000) | HRMS 9/17/14 | HRMS MA 9/20/14 | MA | HRMS 9/20/14 | HRMS 9/20/14 | ES 9/22/14 | ES 9/22/14 |
| <input type="checkbox"/> | B4I0066-BS1 | ↓ | ↓ | ↓ | | | | | | | |
| <input type="checkbox"/> | 1400659-01 | 1511.05 | 502.95 | 1.00810 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400659-02 | 1524.48 | 501.38 | 1.02310 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400665-04 | 1524.38 | 503.07 | 1.02131 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400666-01 (A) | 1534.64 | 505.71 | 1.02893 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400668-01 | 1503.28 | 503.09 | 1.00019 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400668-02 | 1500.63 | 503.46 | 0.99717 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |

(A) Required the use of 2 sets of SPE Filters. AC 9/19/14

| | | | | | | |
|---------------------|---------------------|---------------------|---------------------|--------------------------------|----------------------|---------------------------|
| IS Name (V1) | NS Name (V4) | CRS Name (V3) | RS Name (V2) | Cycle Time | APP: SEFUN SOX (SDS) | Check Out: BMS 9/17/14 |
| PCDD/F 13T0101 10µL | PCDD/F 13L1101 10µL | PCDD/F 13J0103 10µL | PCDD/F 13J0703 10µL | Start Date/Time: 9/19/14 18:40 | SOLV: T01 | Chemist/Date: BMS 9/17/14 |
| PCB | PCB | PCB | PCB | Stop Date/Time: 9/20/14 10:41 | Other: SPE | Check In: Empty ↓ |
| PAH | PAH | PAH | PAH | Final Volume(s): 20µL | C4 | Chemist/Date: Empty ↓ |
| | | | | | | Balance ID: HRMS-4 |

Comments:

Process Sheet
Workorder: 1400659

Prep Expiration: 09/09/2015
Client: Leidos

Workorder Due: 01-Oct-14 00:00

TAT: 21

Method: 1613 Full List
Matrix: Solid
Client Matrix: Sediment
Also run: Percent Solids

Prep Batch: B4100S3

Prep Data Entered: 9/17/14 EJ
Date and Initials

Initial Sequence: 54I0031

| LabSampleID | Recon | ClientSampleID | Date Received | Location | Comments |
|-------------|-------------------------------------|---------------------|-----------------|----------|----------|
| 1400659-03 | <input checked="" type="checkbox"/> | PS-TS-01-20140909-S | 10-Sep-14 09:29 | WR-2 F-3 | |

(A) Jar broken upon arrival. Homogenized in secondary container and placed in a new jar. BMS 9/12/14

Vista PM: Martha Maier

Vial Box ID: Atreyu

Sample Reconciled By: B-Smith 9/12/14

Solids estimate

Batch: B4I0044

| Lab ID | Analysis | % Solids | Entered | Target weight | Weigh this much |
|------------|----------------|----------|---------|---------------|-----------------|
| 1400659-03 | Percent Solids | 75.43 | | 10.00 | 13.26 |
| 1400661-01 | Percent Solids | 29.40 | | 10.00 | 34.01 |

Percent Moisture/ Percent Solids

D2216-90

BATCH ID

B4I0044

Analyst: B. Smith

Test Code: %Moist/%Solids

Analyte:

Dried at 110°C+/-5°C

Units: %

Date/Time IN: 9/12/14 13:30
Date/Time OUT: 9/15/14 9:20

INST HRMS-2

| Pan # | SampID | Source ID | SampType | E | | G | | H | K | M N O P | | |
|-------|------------|-----------|----------|------------------|--------------------|-------------|------------|-------|-----|-----------------------|----------------|-----------|
| | | | | Intial and Date: | Pan Tare Wt. (gms) | BMS 9/12/14 | VO 9/15/14 | | | Dry Sample Weight (g) | %Solids RawVal | pH Before |
| | 1400659-03 | | Sample | 1.3000 | 13.0600 | 10.1700 | 8.8700 | 75.43 | N/A | N/A | N/A | N/A |
| | 1400661-01 | | Sample | 1.3000 | 10.4500 | 3.9900 | 2.6900 | 29.40 | N/A | N/A | N/A | N/A |
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Analyst: B. Smith

Test Code: %Moist/%Solids

Analyte:

Dried at 110°C+/-5°C

Units: %

Date/Time IN: 9/12/14 1330 Date/Time OUT: 9/15/14 9120

INST HRMS-2

| Pan # | SampID | Source ID | SampType | Initial and Date: | | Wet Pan and Sample Weight (g) | Dry Pan and Sample Weight (g) | Dry Sample Weight (g) | %Solids RawVal | N/A | | | Cl- |
|-------|------------|-----------|----------|--------------------|---------|-------------------------------|-------------------------------|-----------------------|----------------|-----------|----------|------------|-----|
| | | | | Pan Tare Wt. (gms) | | | | | | pH Before | pH After | Acid Added | |
| | 1400659-03 | | Sample | 1.30 | 9/12/14 | 13.06 | 10.17 | | | | | | |
| | 1400661-01 | | Sample | 1.30 | 9/15/14 | 10.45 | 3.99 | | | | | | |
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PREPARATION BENCH SHEET

Matrix: Solid

B4I0053

Chemist: M.T

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 15-Sep-14 15:17

| C | VISTA Sample ID | G Eqv | Sample Amt. (g) | IS/NS CHEM/WIT DATE | CRS CHEM/WIT DATE | C4I0068 AP CHEM/DATE | C4I0069 ABSG CHEM/DATE | C4I0069 AA CHEM/DATE | C4I0070 Florisil CHEM/DATE | RS CHEM/WIT DATE |
|--------------------------|-------------------|-------|-----------------|---------------------|-------------------|----------------------|------------------------|----------------------|----------------------------|------------------|
| <input type="checkbox"/> | B4I0053-BLK1 (A) | 10.00 | (10.00) | M.T 28 9/16/14 | 28 9/17/14 | 28 9/17/14 | 28 9/17/14 | 28 9/17/14 | 28 9/17/14 | 28 9/17/14 |
| <input type="checkbox"/> | B4I0053-BS1 (B) | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400659-03 | 13.26 | 13.37 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400665-01 | 15.51 | 15.58 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400665-02 (A) | 28.64 | 28.77 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400665-03 (B) | 28.06 | 28.27 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400668-03 (A)(B) | 23.55 | 23.69 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |

(A) Petroleum smell - 28 9/17/14
 (B) Second acid partition performed 28 9/17/14

| | | | | | | |
|------------------------------|------------------------------|------------------------------|------------------------------|--------------------------------|------------------------------|---|
| IS Name <u>V1</u> | NS Name <u>V14</u> | CRS Name <u>V3</u> | RS Name <u>V2</u> | Cycle Time | APP: SEFUN SOX <u>SDS</u> | Check Out: Chemist/Date: <u>M.T 9/16/14</u> |
| PCDD/F <u>1350101, 10 µl</u> | PCDD/F <u>1361101, 10 µl</u> | PCDD/F <u>1350103, 10 µl</u> | PCDD/F <u>1350703, 10 µl</u> | Start Date/Time <u>9/16/14</u> | SOLV: <u>TOL</u> | Check In: Chemist/Date: <u>M.T 9/16/14</u> |
| PCB _____ | PCB _____ | PCB _____ | PCB _____ | <u>16:05</u> | Other <u>NA</u> | Balance ID: <u>HRMS-2</u> |
| PAH _____ | PAH _____ | PAH _____ | PAH _____ | Stop Date/Time <u>9/17/14</u> | Final Volume(s) <u>20 µl</u> | |
| | | | | <u>8:07</u> | <u>C14</u> | |

Comments:

Process Sheet
Workorder: **1400659**

Prep Expiration: 09/09/2015
Client: Leidos

Workorder Due: 01-Oct-14 00:00

TAT: 21

Method: **1668C Full List**
Matrix: **Aqueous**
Client Matrix: Aqueous
Also run: **Percent Solids**

Prep Batch: B4I0047

Prep Data Entered: M.T 9/16/14
Date and Initials

Initial Sequence: S410027E

| LabSampleID | Recon | ClientSampleID | Date Received | Location | Comments |
|-------------|-------------------------------------|-------------------------|-----------------|----------|----------|
| 1400659-01 | <input checked="" type="checkbox"/> | PS-TS-01-20140909-W 'B' | 10-Sep-14 09:29 | WR-2 B-4 | |
| 1400659-02 | <input checked="" type="checkbox"/> | PS-OS-01-20140909-W 'B' | 10-Sep-14 09:29 | WR-2 B-4 | |

Vista PM:Martha Maier

Vial Box ID: SNAITCH

Sample Reconciled By: M.T 9/15/14

D2216-90

BATCH ID

B410046

Analyst: MJT

Test Code: %Moist/%Solids

Analyte:

Units: %

Dried at 110°C+/-5°C

Date/Time IN: 9/15/14 0:00
 Date/Time OUT: M.T 9/16/14 10:40
 10:00

INST HRMS-4

| Pan # | SampID | Source ID | SampType | Initial and Date: | | | Dry Sample Weight (g) | %Solids RawVal | MJT 9/15/2014 | | | CI |
|-------|-------------|-----------|----------|--------------------|-------------------------------|-------------------------------|-----------------------|----------------|---------------|----------|----------------|----|
| | | | | Pan Tare Wt. (gms) | Wet Pan and Sample Weight (g) | Dry Pan and Sample Weight (g) | | | pH Before | pH After | Acid Added (A) | |
| | 1400650-01 | | Sample | 1.25 | 10.98 | 1.25 | | 7 | 2 | 10 | 0 | |
| | 1400659-01 | | Sample | 1.24 | 8.95 | 1.24 | | 6 | 2 | T | 0 | |
| | 1400659-02 | | Sample | 1.24 | 9.01 | 1.25 | | 7 | 2 | | 0 | |
| | 1400664-01 | | Sample | 1.24 | 13.29 | 1.28 | | 7 | 2 | | 0 | |
| | 1400665-04 | | Sample | 1.25 | 10.47 | 1.26 | | 6 | 2 | | 0 | |
| | B410047-MB | | QC | NA | NA | NA | | M.T 9/15/14 5 | 2 | | 0 | |
| | B410047-BS1 | | QC | ↓ | ↓ | ↓ | | 5 | 2 | | 0 | |
| | B410048-MB | | QC | ↓ | ↓ | ↓ | | 5 | 2 | | 0 | |
| | B410048-BS1 | | QC | ↓ | ↓ | ↓ | | 5 | 2 | ↓ | 0 | |

(A) Acid was added in drops. M.T 9/15/14

D2216-90

BATCH ID

B410046

Analyst: MJT

Test Code: %Moist/%Solids

Analyte:

Units: %

Dried at 110°C+/-5°C

Date/Time IN: Date/Time OUT

9/15/14 10:00 9/16/14 10:40

INST HRMS-4

| Pan # | SampID | Source ID | SampType | Initial and Date: | | G | | H | K | M N O P | | | |
|-------|-------------|-----------|----------|--------------------|-------------------------------|-------------------------------|-----------------------|----------------|-----------|---------------|------------|-----|--|
| | | | | E | F | MJT 9/15/2014 | MJT 9/16/2014 | | | MJT 9/15/2014 | | | |
| | | | | 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- | |
| | 1400650-01 | | Sample | 1.2500 | 10.9800 | 1.2500 | 0.0000 | 0.00 | 7 | 2 | 10 | 0 | |
| | 1400659-01 | | Sample | 1.2400 | 8.9500 | 1.2400 | 0.0000 | 0.00 | 6 | 2 | 10 | 0 | |
| | 1400659-02 | | Sample | 1.2400 | 9.0100 | 1.2500 | 0.0100 | 0.13 | 7 | 2 | 10 | 0 | |
| | 1400664-01 | | Sample | 1.2400 | 13.2900 | 1.2800 | 0.0400 | 0.33 | 7 | 2 | 10 | 0 | |
| | 1400665-04 | | Sample | 1.2500 | 10.4700 | 1.2600 | 0.0100 | 0.11 | 6 | 2 | 10 | 0 | |
| | B410047-MB | | QC | NA | NA | NA | NA | NA | 5 | 2 | 10 | 0 | |
| | B410047-BS1 | | QC | NA | NA | NA | NA | NA | 5 | 2 | 10 | 0 | |
| | B410048-MB | | QC | NA | NA | NA | NA | NA | 5 | 2 | 10 | 0 | |
| | B410048-BS1 | | QC | NA | NA | NA | NA | NA | 5 | 2 | 10 | 0 | |
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PREPARATION BENCH SHEET

B4I0047

Chemist: M.T

Prep Date/Time: 15-Sep-14 08:46

Prepared using: HRMS - Separatory Funnel

| C | VISTA Sample ID | Bottle + Sample (mL) | Bottle Only (mL) | Sample Amt. (L) | IS/NS CHEM/WIT DATE | PS CRS CHEM/WIT DATE | NA AP CHEM/ DATE | C4I0059 ABSG CHEM/ DATE | NA AA CHEM/ DATE | NA Florisol CHEM/ DATE | RS CHEM/WIT DATE |
|--------------------------|-----------------|----------------------|------------------|-----------------|---------------------|-------------------------|---------------------|----------------------------|---------------------|---------------------------|------------------|
| <input type="checkbox"/> | B4I0047-BLK1 | NA | NA | (1.00) | M.T 9/9/14 | M.T 9/15/14 | NA | M.T 9/15/14 | NA | NA | M.T 9/16/14 |
| <input type="checkbox"/> | B4I0047-BS1 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400659-01 | 1528.73 | 503.29 | 1.02544 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400659-02 | 1511.68 | 499.35 | 1.01233 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400665-04 | 1529.83 | 503.54 | 1.02629 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |

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|--------------------------|--------------------------|--------------------------|--------------------------|-----------------|--------------------|----------------------------------|
| IS Name | NS Name | PS CRS Name | RS Name | Cycle Time | APP: SEFUN SOX SDS | Check Out: |
| PCDD/F <u>V2</u> | PCDD/F <u>V5</u> | PCDD/F <u>V3</u> | PCDD/F <u>V3</u> | Start Date/Time | SOLV: DCM | Chemist/Date: <u>M.T 9/15/14</u> |
| PCB <u>14A3001, 10ml</u> | PCB <u>13I2503, 10ml</u> | PCB <u>14A3002, 10ml</u> | PCB <u>14A3003, 10ml</u> | Stop Date/Time | Other: NA | Check In: |
| PAH | PAH | PAH | PAH | Final Volume(s) | <u>20ml</u> | Chemist/Date: <u>Empty</u> |
| | | | | | <u>29</u> | Balance ID: <u>HRMS-4</u> |

Comments:

Process Sheet
Workorder: **1400659**

Prep Expiration: 09/09/2015
Client: Leidos

Workorder Due: **01-Oct-14 00:00**

TAT: 21

Method: **1668C Full List**
Matrix: **Solid**
Client Matrix: Sediment
Also run: **Percent Solids**

Prep Batch: B4I0061

Prep Data Entered: 9/18/14 es
Date and Initials

Initial Sequence: _____

| LabSampleID | Recon | ClientSampleID | Date Received | Location | Comments |
|-------------|-------------------------------------|---------------------|-----------------|----------|----------|
| 1400659-03 | <input checked="" type="checkbox"/> | PS-TS-01-20140909-S | 10-Sep-14 09:29 | WR-2 F-3 | |

(A) Jar broken upon arrival. Homogenized in secondary container and placed in new jar. Brms 9/12/14

Vista PM: Martha Maier

Vial Box ID: SNATCH

Sample Reconciled By: B. Smith 9/12/14

Solids estimate

Batch: B4I0044

| Lab ID | Analysis | % Solids | Entered | Target weight | Weigh this much |
|-----------------------|---------------------------|------------------|---------|------------------|------------------|
| 1400659-03 | Percent Solids | 75.43 | | 10.00 | 13.26 |
| 1400661-01 | Percent Solids | 29.40 | | 10.00 | 34.01 |

D2216-90

BATCH ID

B410044

Analyst: B. Smith

Test Code: %Moist/%Solids

Analyte:

Dried at 110°C+/-5°C

Units: %

Date/Time IN: 9/12/14 13:50 Date/Time OUT: 9/15/14 9:20

INST HRMS-2

| B | C | D | E | F | G | H | K | M | N | O | P | |
|-------|------------|-----------|----------|---|-------------------------------|-------------------------------|-----------------------|----------------|-----------|----------|------------|-----|
| Pan # | SampleID | Source ID | SampType | Initial and Date: 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- |
| | 1400659-03 | | Sample | 1.30 | 13.06 | 10.17 | | | | | | |
| | 1400661-01 | | Sample | 1.30 | 10.45 | 3.99 | | | | | | |
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Analyst: B. Smith

Test Code: %Moist/%Solids

Analyte:

Units: %

Dried at 110°C+/-5°C

Date/Time IN: Date/Time OUT

9/12/14 13:30 9/15/14 9:20

INST HRMS-2

| Pan # | SampID | Source ID | SampType | Initial and Date: | | | %Solids RawVal | N/A | | | | |
|-------|------------|-----------|----------|--------------------|-------------------------------|---------|----------------|------------|-----|-----------|----------|------------|
| | | | | Pan Tare Wt. (gms) | BMS 9/12/14 | | | | | | | |
| | | | | | Wet Pan and Sample Weight (g) | | | VO 9/15/14 | | pH Before | pH After | Acid Added |
| | 1400659-03 | | Sample | 1.3000 | 13.0600 | 10.1700 | 8.8700 | 75.43 | N/A | N/A | N/A | N/A |
| | 1400661-01 | | Sample | 1.3000 | 10.4500 | 3.9900 | 2.6900 | 29.40 | N/A | N/A | N/A | N/A |
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PREPARATION BENCH SHEET

Matrix: Solid

B4I0061

Chemist: Ballardo
 Prep Date/Time: 9/17/14 14:40
 16 Sep 14 13:26 CB 9/17/14

Method: 1668C Full List

Prepared using: HRMS - Soxhlet

| C | VISTA Sample ID | G Eqv | Sample Amt. (g) | IS/NS CHEM/WIT DATE | CRS CHEM/WIT DATE | C4I0072 | C4I0073 | N/A | N/A | RS CHEM/WIT DATE |
|--------------------------|--|-------|-----------------|---------------------|-------------------|--------------|----------------|--------------|--------------------|------------------|
| | | | | | | AP CHEM/DATE | ABSG CHEM/DATE | AA CHEM/DATE | Florisil CHEM/DATE | |
| <input type="checkbox"/> | B4I0061-BLK1 (A) | 10.00 | (10.00) | 9/17/14 | 9/18/14 | 9/18/14 | 9/19/14 | N/A | N/A | 9/19/14 |
| <input type="checkbox"/> | B4I0061-BS1 (A) | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400659-03 (B)(E)(F) | 13.26 | 13.41 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400665-01 (B)(D)(G) | 15.51 | 15.66 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400665-02 (A)(C)(D)(E)(F)(H) | 28.04 | 28.04 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400665-03 (A)(B)(E)(F)(G)(I) | 28.06 | 28.20 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| <input type="checkbox"/> | 1400668-03 (A)(B)(C)(D)(E)(F)(G)(H)(I) | 23.55 | 24.02 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |

- (A) Second acid partition performed. ES 9/18/14.
- (B) Precipitate formed at final volume. ES 9/19/14
- (C) Cloudy at final volume ES 9/19/14
- (D) Crystals at final volume ES 9/19/14
- (E) 1:10 Dilution made per request. ES 9/19/14
- (F) 1:20 Dilution made per request. ES 9/19/14
- (G) FV of about 180 mL. ES 9/19/14
- (H) FV of about 200 mL. ES 9/19/14
- (I) FV of about 650 mL. ES 9/19/14

| | | | | | | |
|--------------------|--------------------|--------------------|--------------------|-----------------|------------------------|--------------------------|
| IS Name | NS Name | CRS Name | RS Name | Cycle Time | APP: SEFUN SOX (SDS) | Check Out: |
| PCDD/F (B) | PCDD/F (B) | PCDD/F (B) | PCDD/F (B) | Start Date/Time | SOLV: Tol. | Chemist/Date: CB 9/17/14 |
| PCB 1402901, 10 mL | PCB 14F1301, 10 mL | PCB 1402903, 10 mL | PCB 1402904, 10 mL | 9/17/14 15:25 | Other: N/A | Check In: |
| PAH | PAH | PAH | PAH | Stop Date/Time | Final Volume(s) 100 mL | Chemist/Date: ↓ |
| | | | | 9/18/14 07:30 | Cg | Balance ID: HRMS-2 |

Comments:

SAMPLE DATA

EPA Method 1613

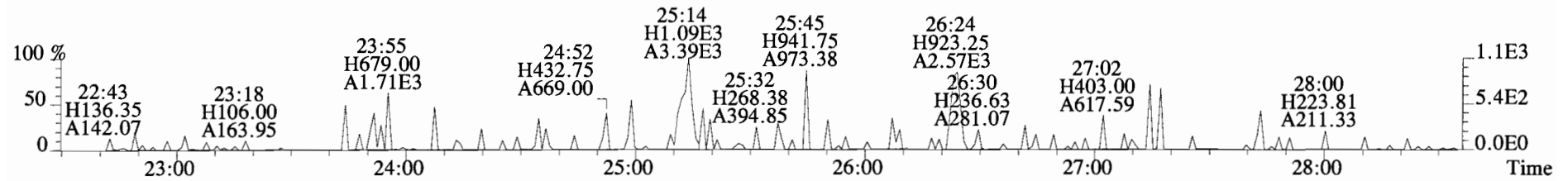
| Name | Resp | RA | RRF | RT | RRT | Conc | Q | noise | Fac | DL | Name | Conc | EMPC | Qual | noise | DL |
|---------------------|------|-----|------|-------------|-----|------|---|-------|-----|-------|---------------------|--------|--------|------|-------|-------|
| 2,3,7,8-TCDD | * | * n | 1.03 | NotF η | * | * | | 681 | 2.5 | 1.20 | Total Tetra-Dioxins | * | * | | 681 | 1.20 |
| 1,2,3,7,8-PeCDD | * | * n | 0.84 | NotF η | * | * | | 856 | 2.5 | 1.37 | Total Penta-Dioxins | * | * | | 856 | 1.37 |
| 1,2,3,4,7,8-HxCDD | * | * n | 1.05 | NotF η | * | * | | 325 | 2.5 | 1.05 | Total Hexa-Dioxins | * | * | | 547 | 1.82 |
| 1,2,3,6,7,8-HxCDD | * | * n | 1.04 | NotF η | * | * | | 325 | 2.5 | 1.11 | Total Hepta-Dioxins | * | * | | 639 | 2.29 |
| 1,2,3,7,8,9-HxCDD | * | * n | 0.90 | NotF η | * | * | | 325 | 2.5 | 1.08 | Total Tetra-Furans | * | * | | 599 | 0.950 |
| 1,2,3,4,6,7,8-HpCDD | * | * n | 1.01 | NotF η | * | * | | 639 | 2.5 | 2.29 | Total Penta-Furans | 0.0000 | 0.0000 | | 859 | 1.50 |
| OCDD | * | * n | 1.04 | NotF η | * | * | | 2420 | 1.0 | 4.53 | Total Hexa-Furans | * | * | | 576 | 0.839 |
| | | | | | | | | | | | Total Hepta-Furans | * | * | | 792 | 1.53 |
| 2,3,7,8-TCDF | * | * n | 0.91 | NotF η | * | * | | 599 | 2.5 | 0.950 | | | | | | |
| 1,2,3,7,8-PeCDF | * | * n | 0.97 | NotF η | * | * | | 446 | 2.5 | 0.768 | | | | | | |
| 2,3,4,7,8-PeCDF | * | * n | 0.94 | NotF η | * | * | | 446 | 2.5 | 0.793 | | | | | | |
| 1,2,3,4,7,8-HxCDF | * | * n | 1.32 | NotF η | * | * | | 576 | 2.5 | 0.690 | | | | | | |
| 1,2,3,6,7,8-HxCDF | * | * n | 1.18 | NotF η | * | * | | 576 | 2.5 | 0.710 | | | | | | |
| 2,3,4,6,7,8-HxCDF | * | * n | 1.23 | NotF η | * | * | | 300 | 2.5 | 0.438 | | | | | | |
| 1,2,3,7,8,9-HxCDF | * | * n | 1.13 | NotF η | * | * | | 300 | 2.5 | 0.634 | | | | | | |
| 1,2,3,4,6,7,8-HpCDF | * | * n | 1.57 | NotF η | * | * | | 792 | 2.5 | 1.54 | | | | | | |
| 1,2,3,4,7,8,9-HpCDF | * | * n | 1.50 | NotF η | * | * | | 391 | 2.5 | 0.755 | | | | | | |
| OCDF | * | * n | 1.05 | NotF η | * | * | | 583 | 2.5 | 2.48 | | | | | | |

| | | | | | | | | | | | Rec | Qual |
|----|-------------------------|----------|--------|------|-------|-------|--------|--|--|--|------|------|
| IS | 13C-2,3,7,8-TCDD | 1.76e+07 | 0.78 y | 1.06 | 27:10 | 1.021 | 1667.3 | | | | 83.4 | |
| IS | 13C-1,2,3,7,8-PeCDD | 1.81e+07 | 0.63 y | 1.08 | 31:37 | 1.188 | 1683.3 | | | | 84.2 | |
| IS | 13C-1,2,3,4,7,8-HxCDD | 1.24e+07 | 1.26 y | 0.74 | 34:58 | 1.014 | 1669.3 | | | | 83.5 | |
| IS | 13C-1,2,3,6,7,8-HxCDD | 1.21e+07 | 1.25 y | 0.75 | 35:05 | 1.017 | 1622.2 | | | | 81.1 | |
| IS | 13C-1,2,3,7,8,9-HxCDD | 1.41e+07 | 1.27 y | 0.89 | 35:23 | 1.026 | 1584.0 | | | | 79.2 | |
| IS | 13C-1,2,3,4,6,7,8-HpCDD | 1.00e+07 | 1.06 y | 0.70 | 38:49 | 1.126 | 1424.7 | | | | 71.2 | |
| IS | 13C-OCDD | 1.70e+07 | 0.89 y | 0.59 | 42:11 | 1.223 | 2882.3 | | | | 72.1 | |
| IS | 13C-2,3,7,8-TCDF | 2.37e+07 | 0.78 y | 0.97 | 26:25 | 0.992 | 1708.3 | | | | 85.4 | |
| IS | 13C-1,2,3,7,8-PeCDF | 2.29e+07 | 1.59 y | 0.99 | 30:27 | 1.144 | 1617.7 | | | | 80.9 | |
| IS | 13C-2,3,4,7,8-PeCDF | 2.33e+07 | 1.61 y | 1.01 | 31:21 | 1.178 | 1614.4 | | | | 80.7 | |
| IS | 13C-1,2,3,4,7,8-HxCDF | 1.59e+07 | 0.51 y | 0.94 | 34:04 | 0.988 | 1690.0 | | | | 84.5 | |
| IS | 13C-1,2,3,6,7,8-HxCDF | 1.73e+07 | 0.51 y | 1.23 | 34:11 | 0.992 | 1410.0 | | | | 70.5 | |
| IS | 13C-2,3,4,6,7,8-HxCDF | 1.57e+07 | 0.52 y | 1.03 | 34:48 | 1.009 | 1517.3 | | | | 75.9 | |
| IS | 13C-1,2,3,7,8,9-HxCDF | 1.29e+07 | 0.52 y | 0.89 | 35:47 | 1.038 | 1464.1 | | | | 73.2 | |
| IS | 13C-1,2,3,4,6,7,8-HpCDF | 1.01e+07 | 0.44 y | 0.71 | 37:39 | 1.092 | 1436.9 | | | | 71.8 | |
| IS | 13C-1,2,3,4,7,8,9-HpCDF | 9.32e+06 | 0.45 y | 0.64 | 39:22 | 1.142 | 1452.2 | | | | 72.6 | |
| IS | 13C-OCDF | 1.90e+07 | 0.91 y | 0.76 | 42:25 | 1.230 | 2512.7 | | | | 62.8 | |

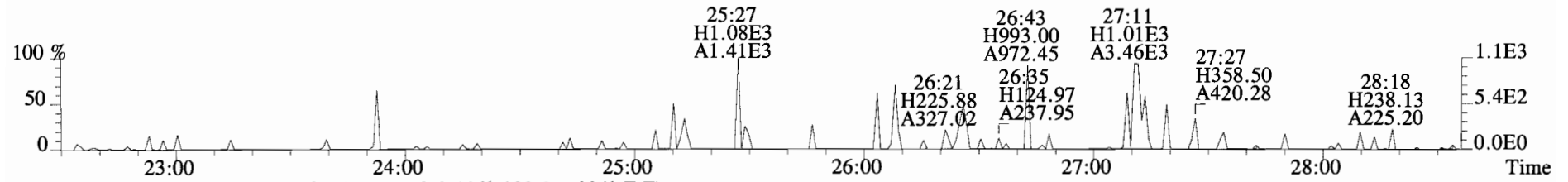
| | | | | | | | | | | | | |
|-------|-----------------------|----------|--------|------|-------|-------|--------|--|--|--|------|--|
| C/Up | 37C1-2,3,7,8-TCDD | 7.65e+06 | | 1.04 | 27:12 | 1.022 | 737.00 | | | | 92.1 | |
| RS/RT | 13C-1,2,3,4-TCDD | 1.99e+07 | 0.79 y | 1.00 | 26:37 | * | 2000.0 | | | | | |
| RS | 13C-1,2,3,4-TCDF | 2.86e+07 | 0.76 y | 1.00 | 25:13 | * | 2000.0 | | | | | |
| RS/RT | 13C-1,2,3,4,6,9-HxCDF | 2.00e+07 | 0.51 y | 1.00 | 34:29 | * | 2000.0 | | | | | |

Integrations
by
Analyst: ms
Date: 9/23/14
Reviewed
by
Analyst: [Signature]
Date: 9/23/14

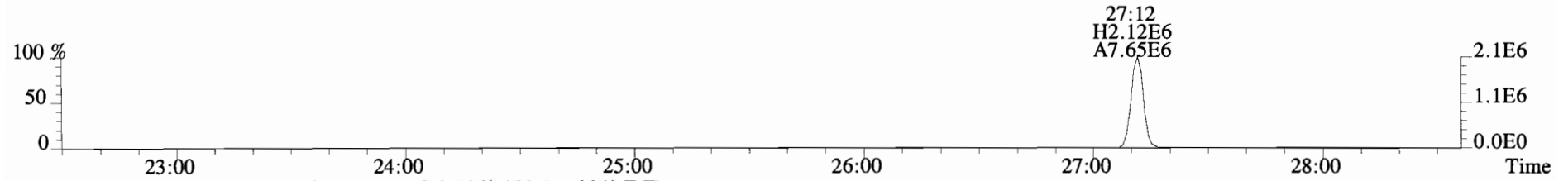
File:140922D1 #1-551 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0066-BLK1 Method Blank 1 Exp:OCDD_DB5
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



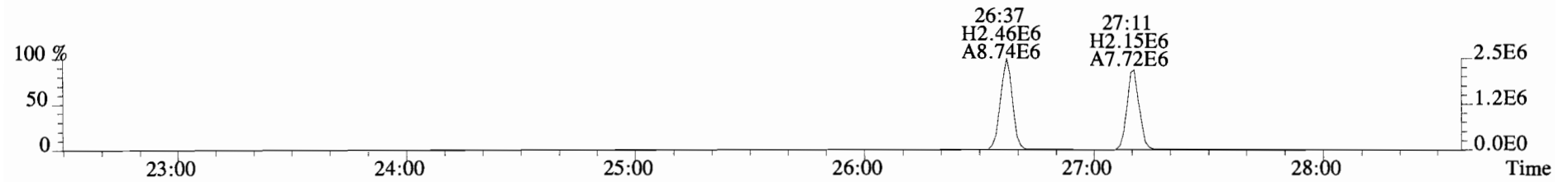
321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



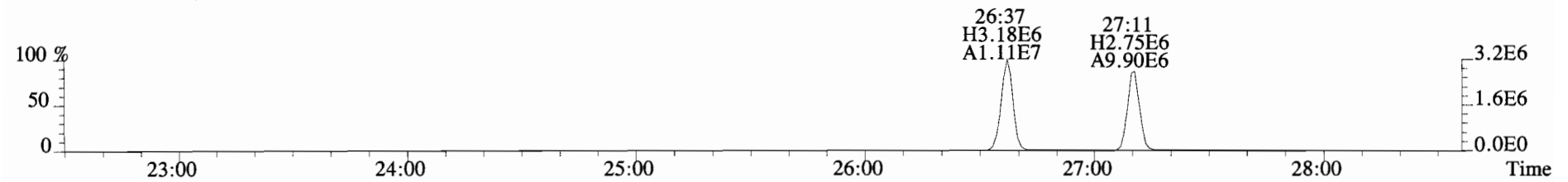
327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



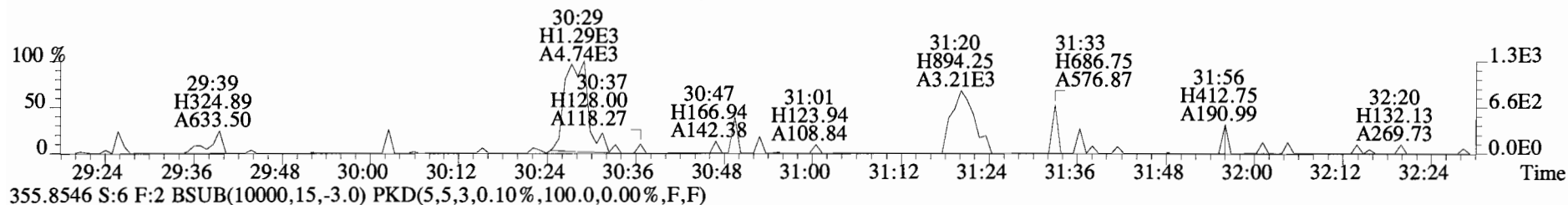
331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



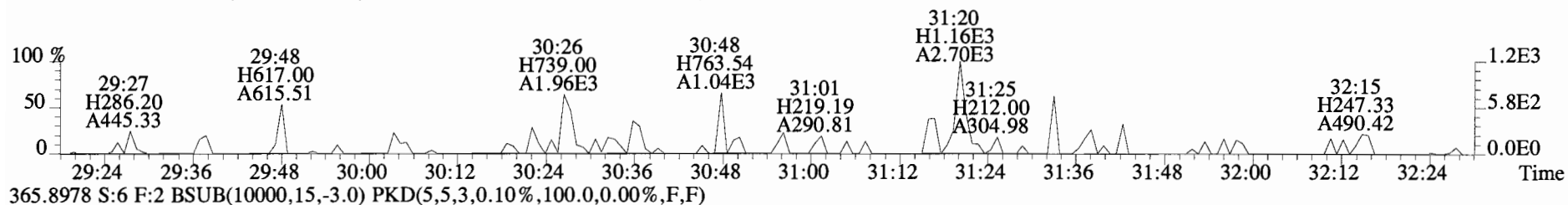
333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



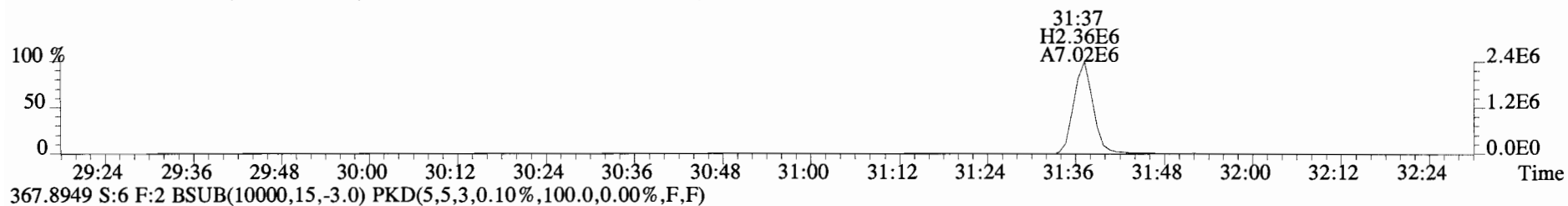
File:140922D1 #1-256 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0066-BLK1 Method Blank 1 Exp:OCDD_DB5
353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



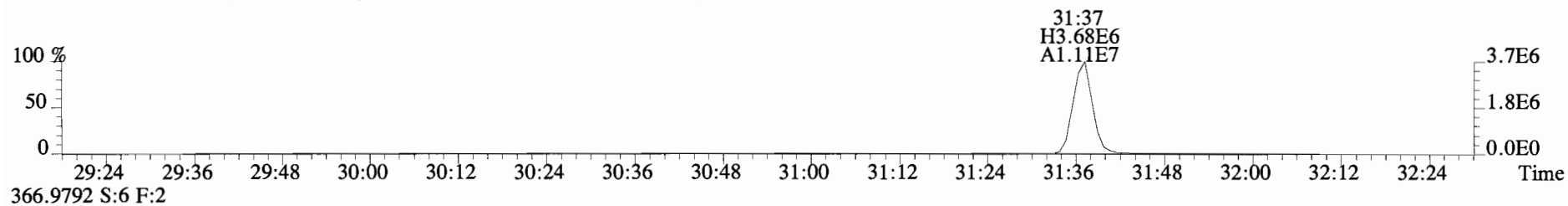
355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



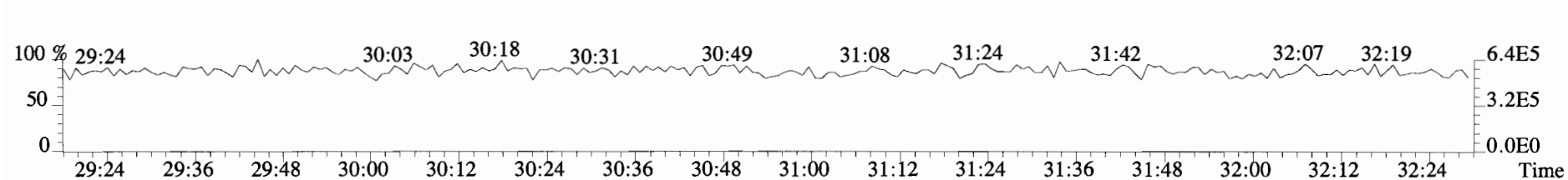
365.8978 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



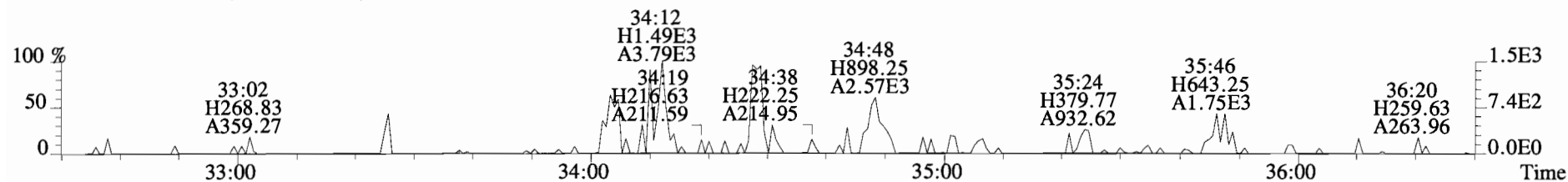
367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



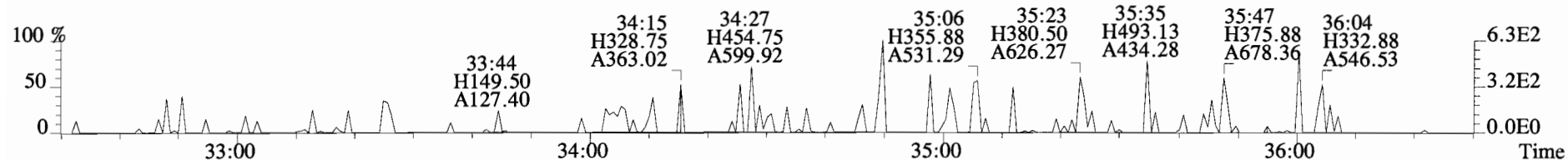
366.9792 S:6 F:2



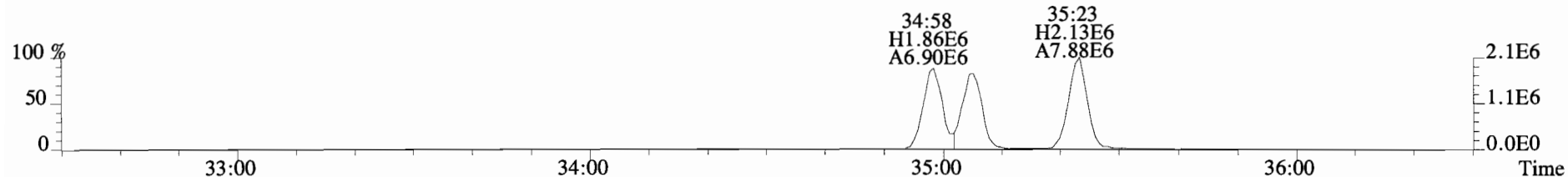
File:140922D1 #1-385 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B410066-BLK1 Method Blank 1 Exp:OCDD_DB5
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



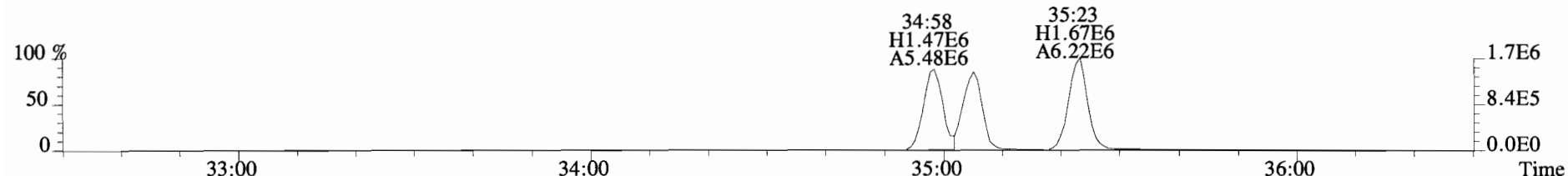
391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



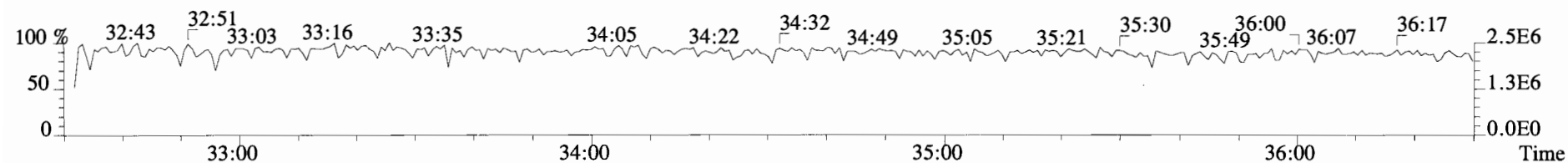
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



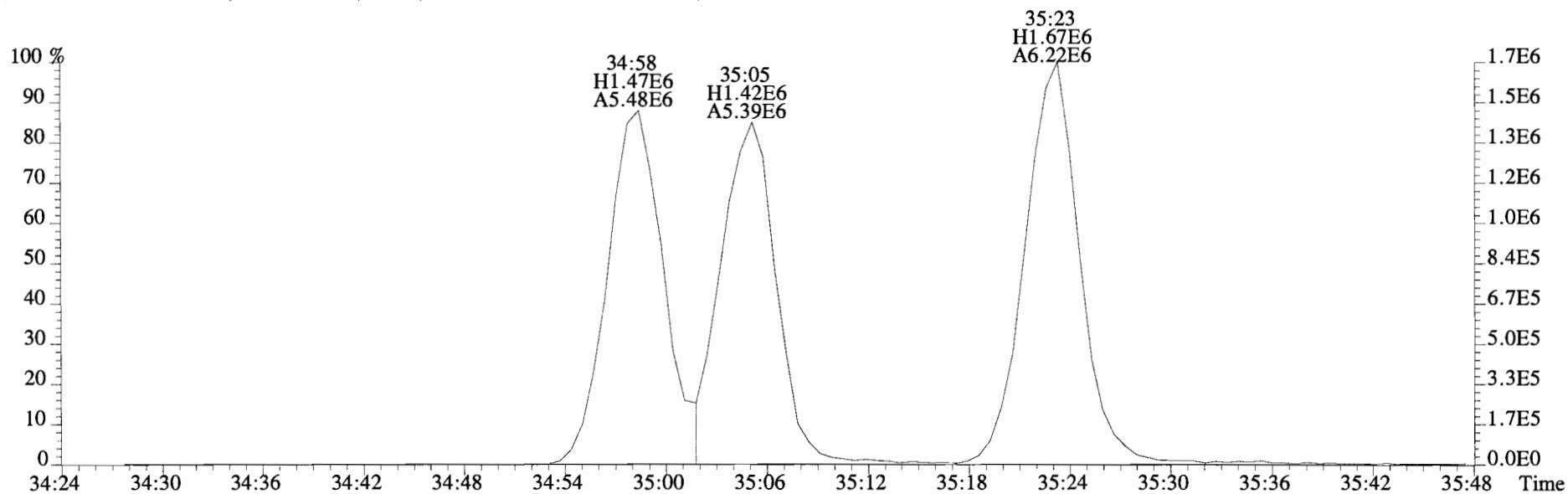
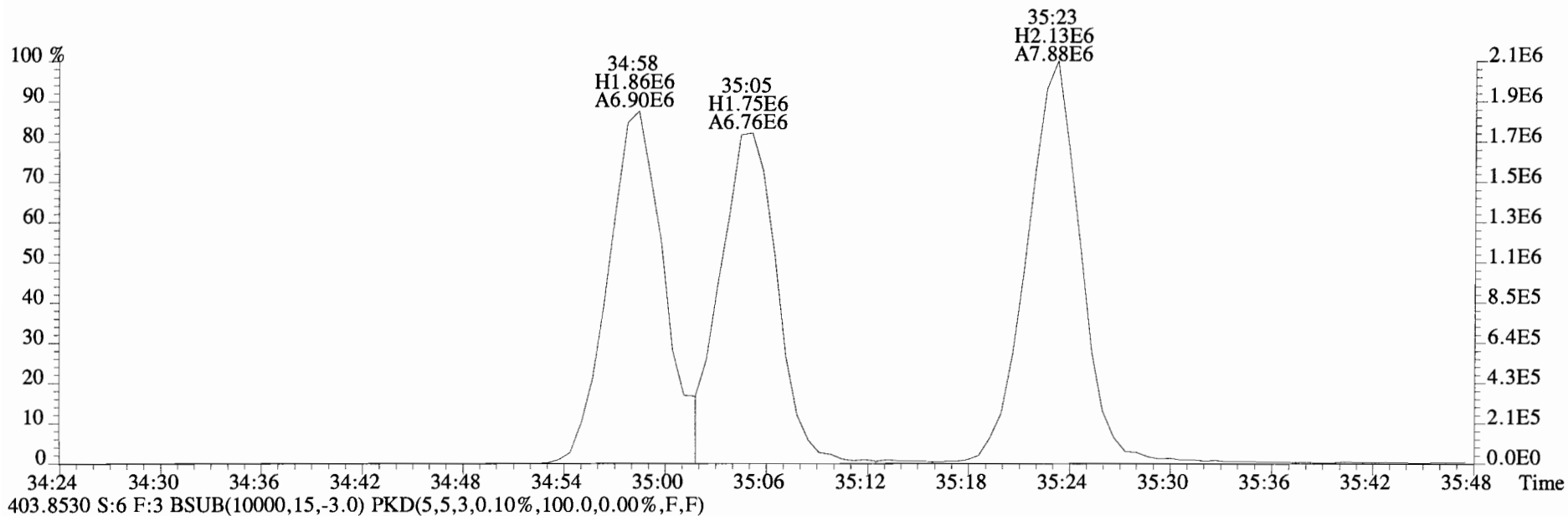
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



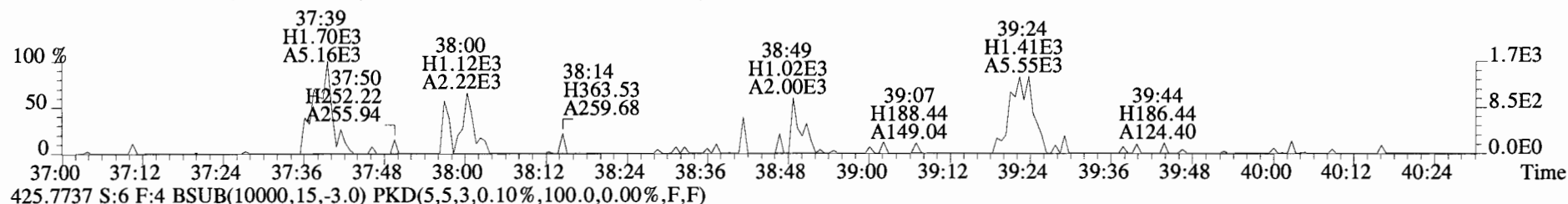
380.9760 S:6 F:3



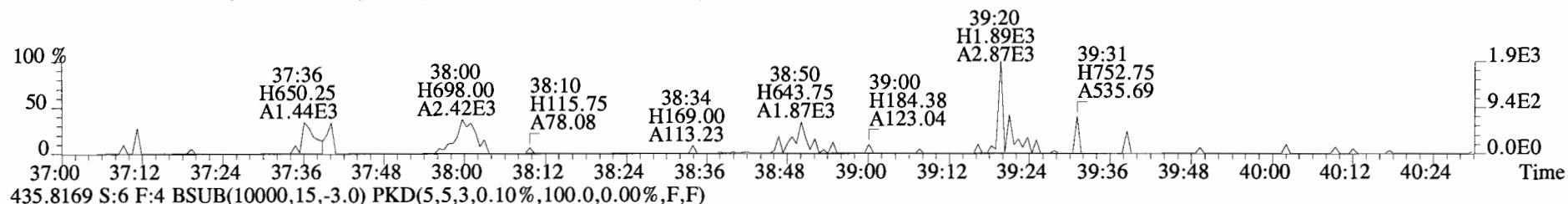
File:140922D1 #1-385 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:B4I0066-BLK1 Method Blank 1 Exp:OCDD_DB5
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



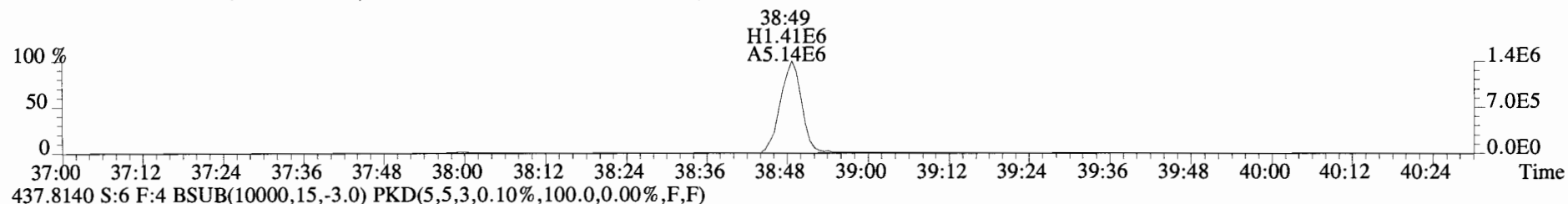
File:140922D1 #1-326 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0066-BLK1 Method Blank 1 Exp:OCDD_DB5
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



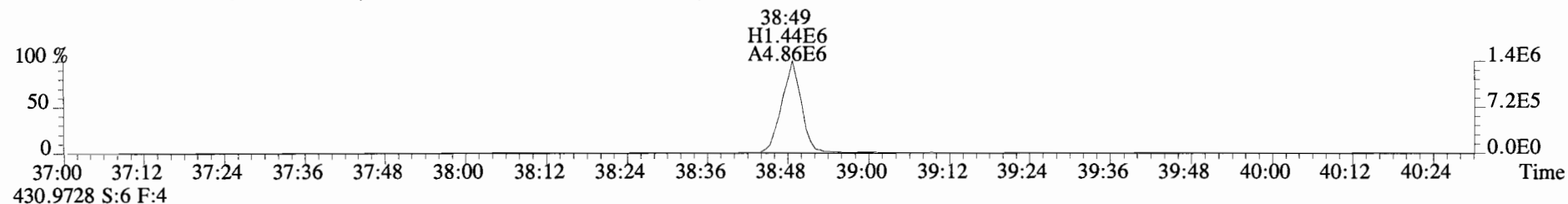
425.7737 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



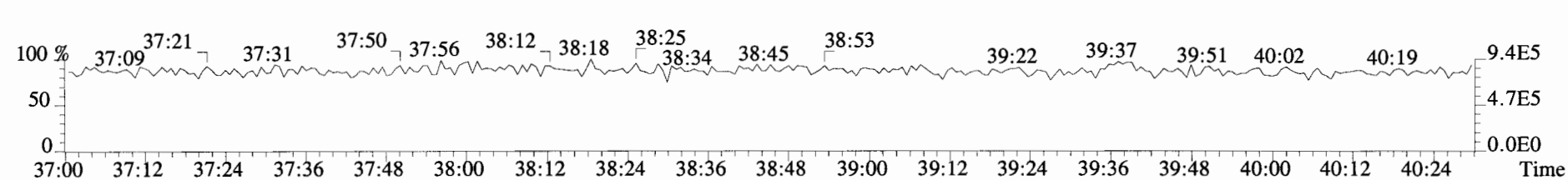
435.8169 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



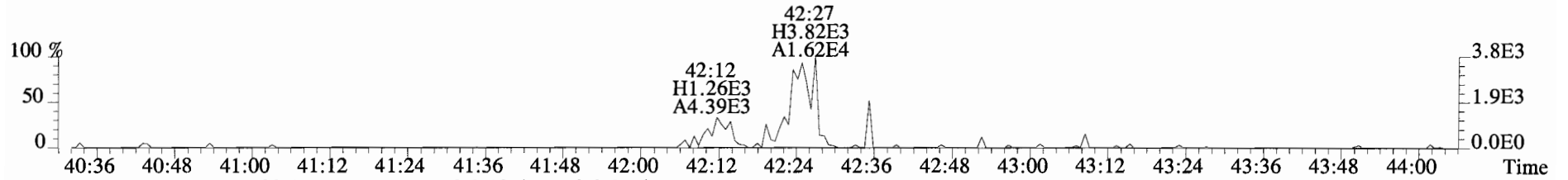
437.8140 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



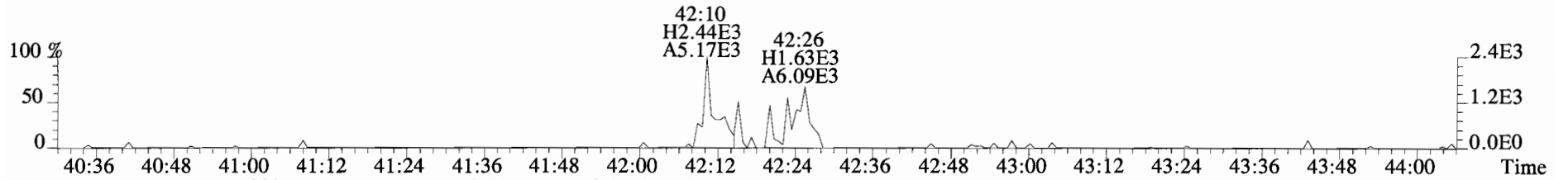
430.9728 S:6 F:4



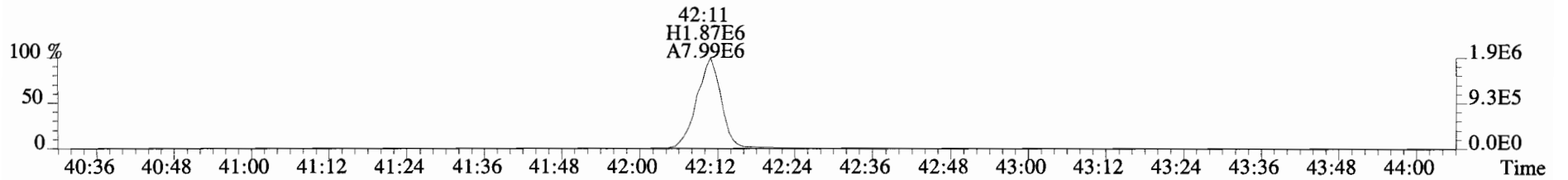
File:140922D1 #1-389 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B410066-BLK1 Method Blank 1 Exp:OCDD_DB5
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



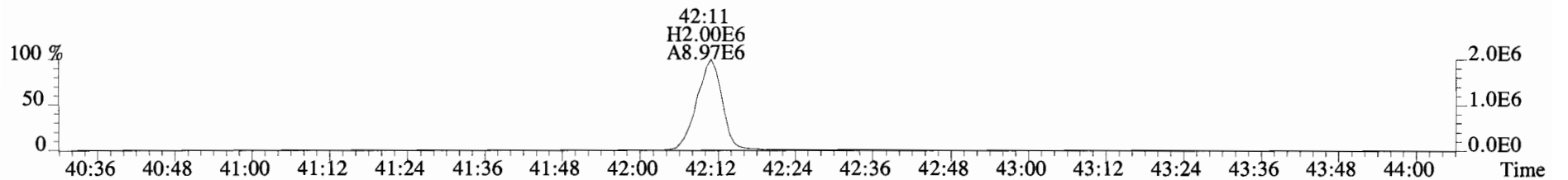
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



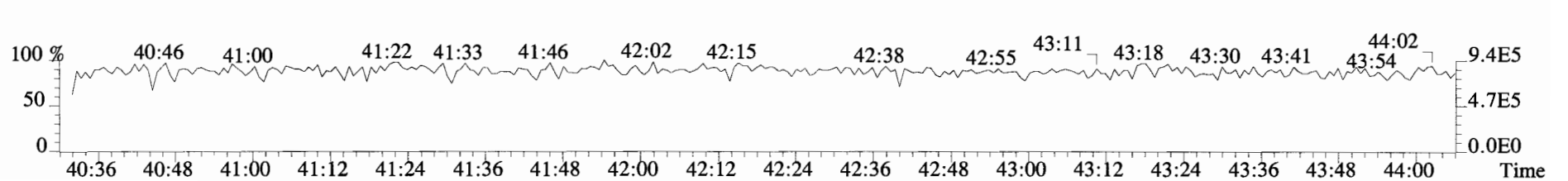
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



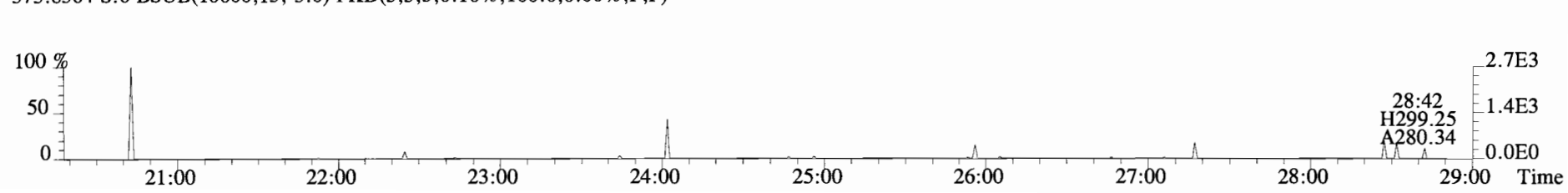
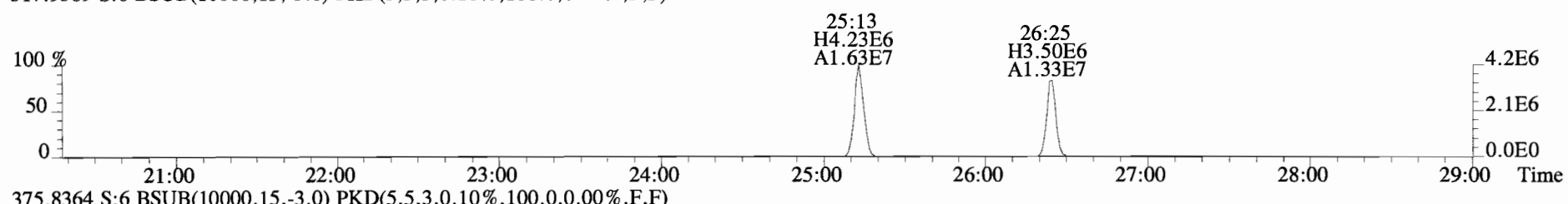
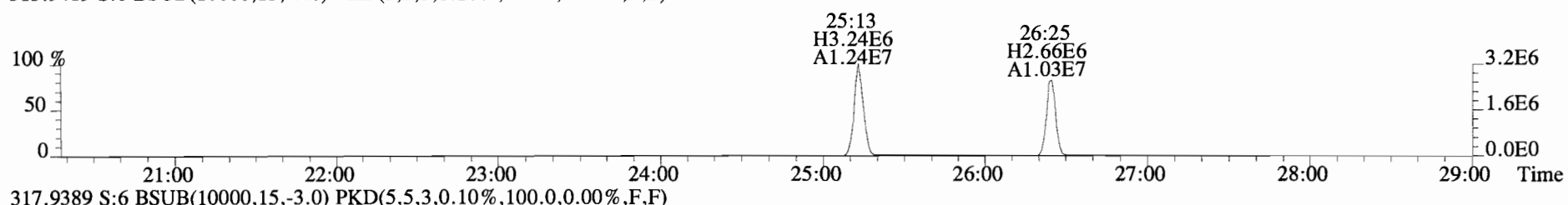
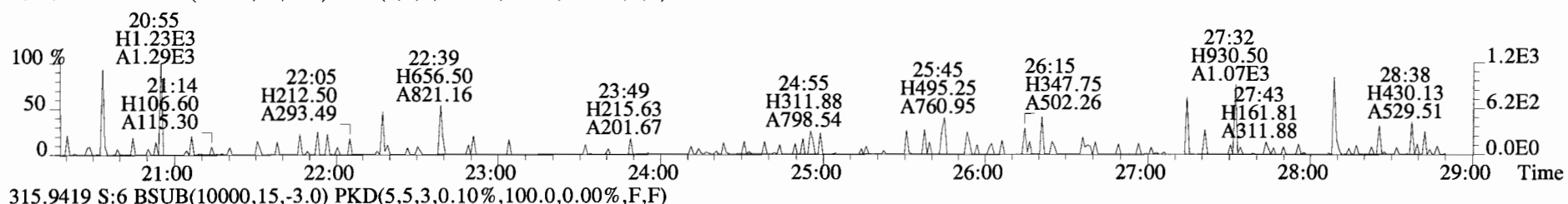
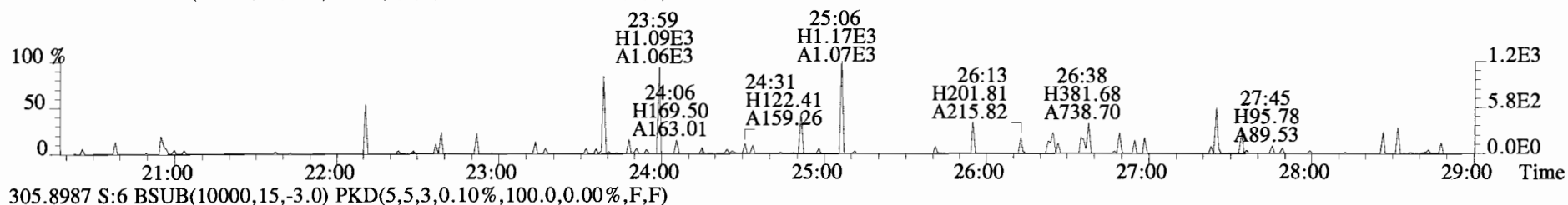
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



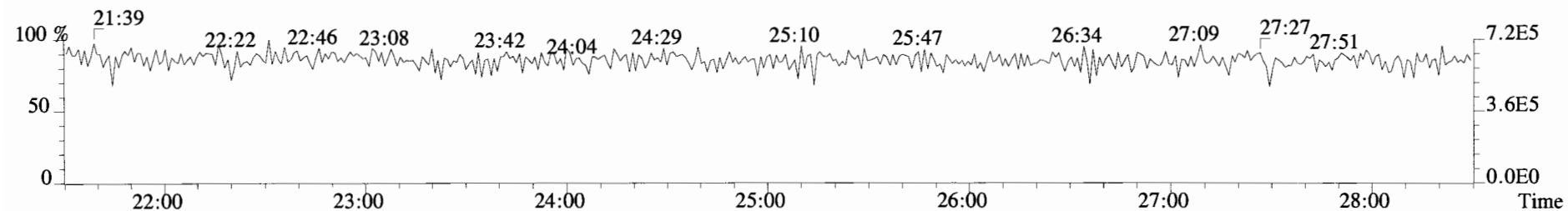
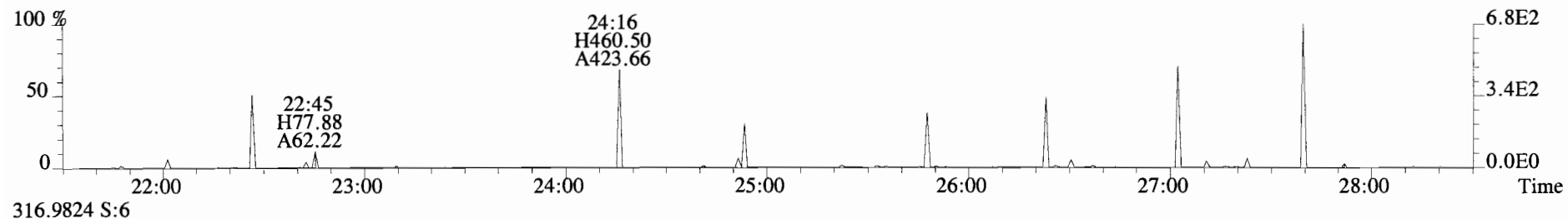
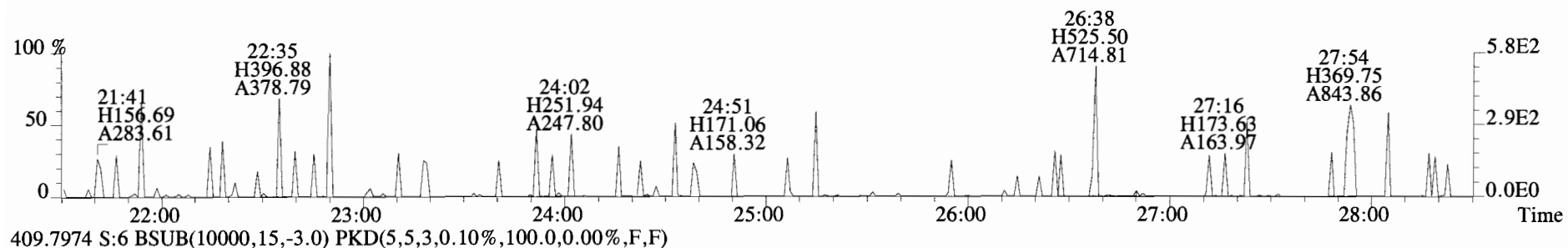
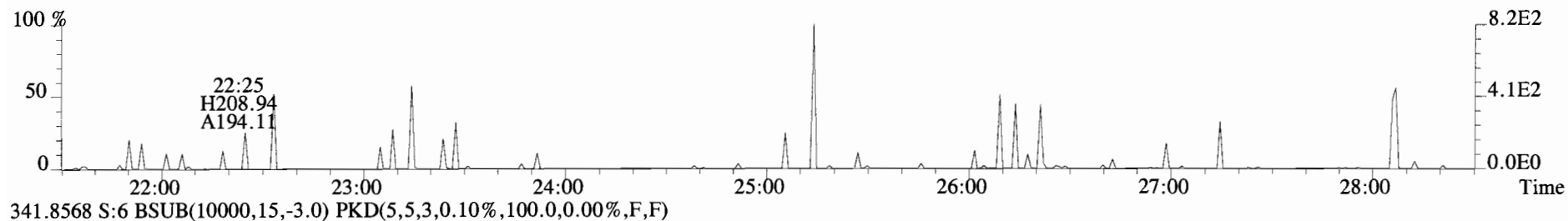
454.9728 S:6 F:5



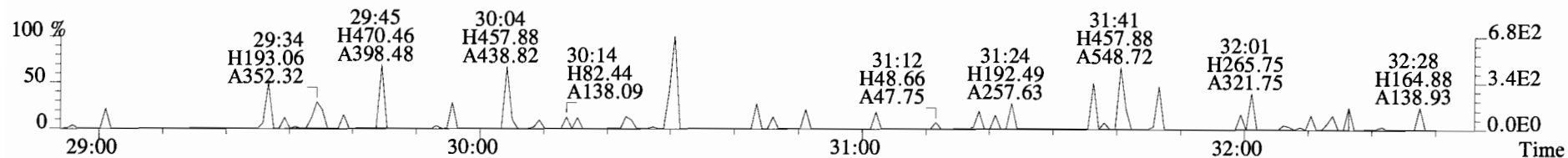
File:140922D1 #1-551 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0066-BLK1 Method Blank 1 Exp:OCDD_DB5
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



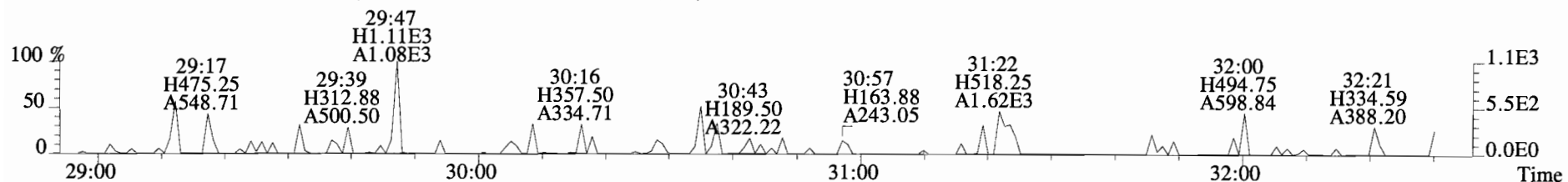
File:140922D1 #1-551 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:B410066-BLK1 Method Blank 1 Exp:OCDD_DB5
339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



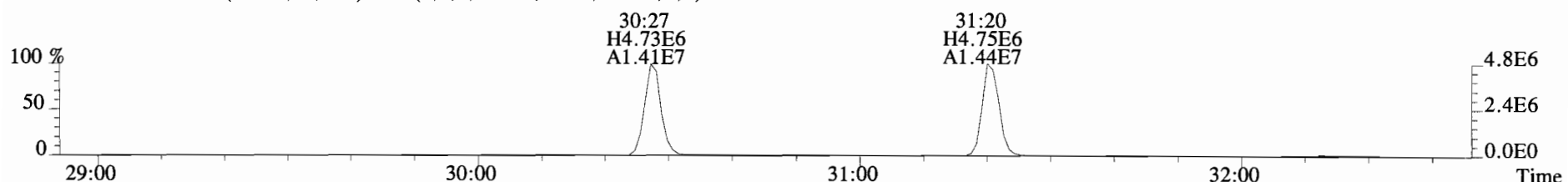
File:140922D1 #1-256 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0066-BLK1 Method Blank 1 Exp:OCDD_DB5
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



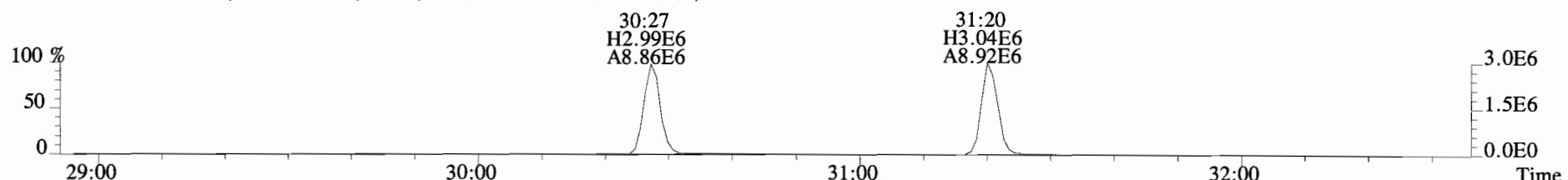
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



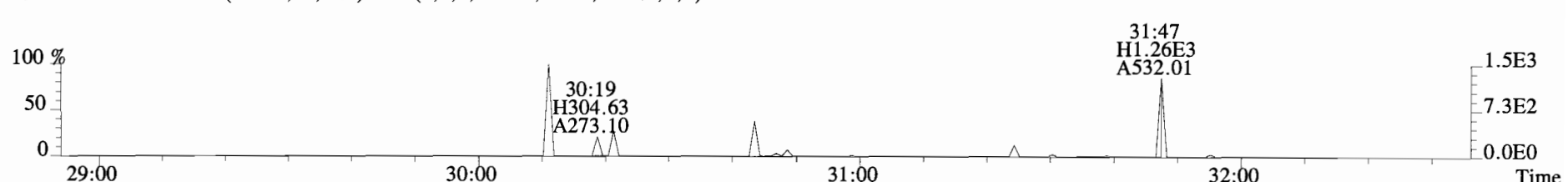
351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



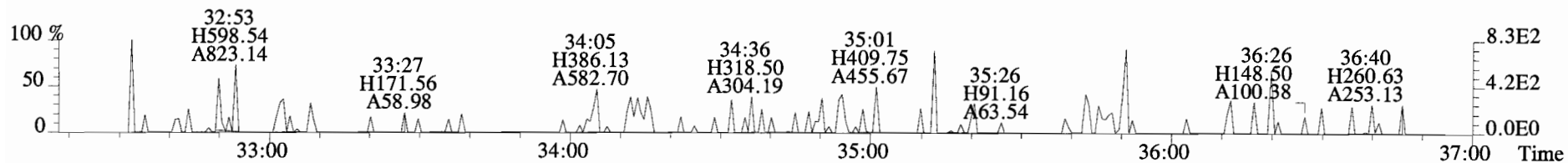
353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



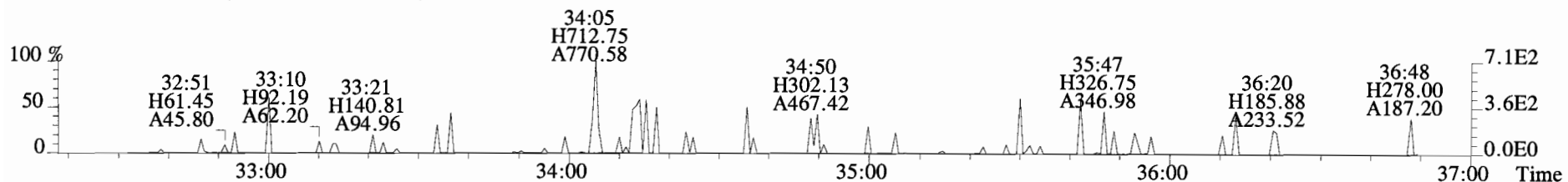
409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



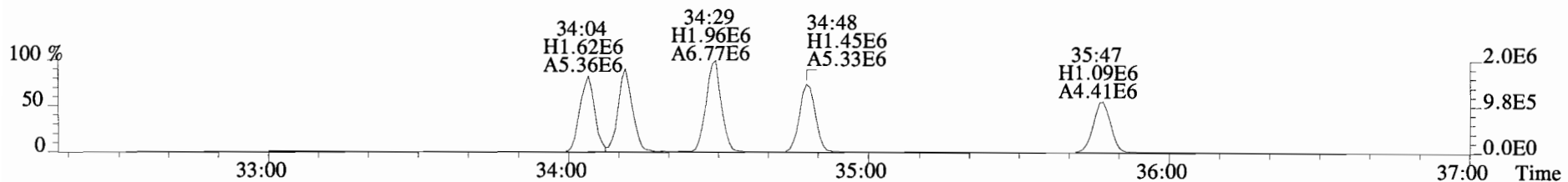
File:140922D1 #1-385 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B410066-BLK1 Method Blank 1 Exp:OCDD_DB5
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



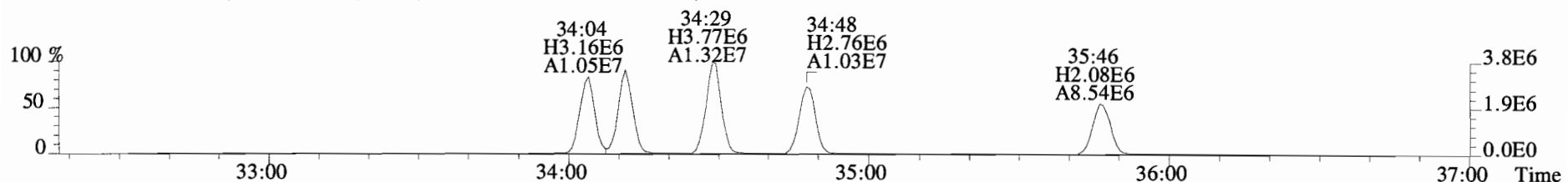
375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



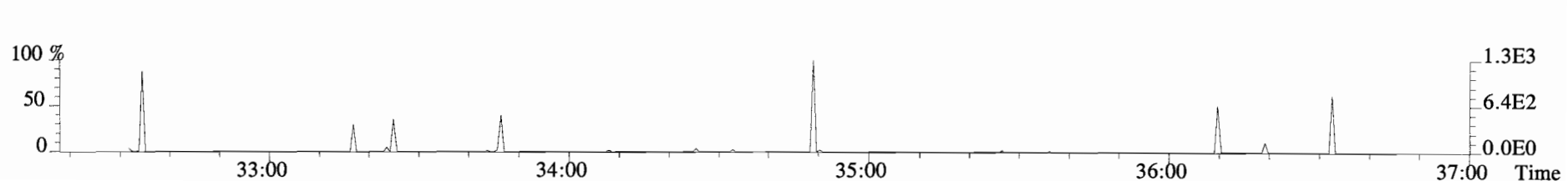
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



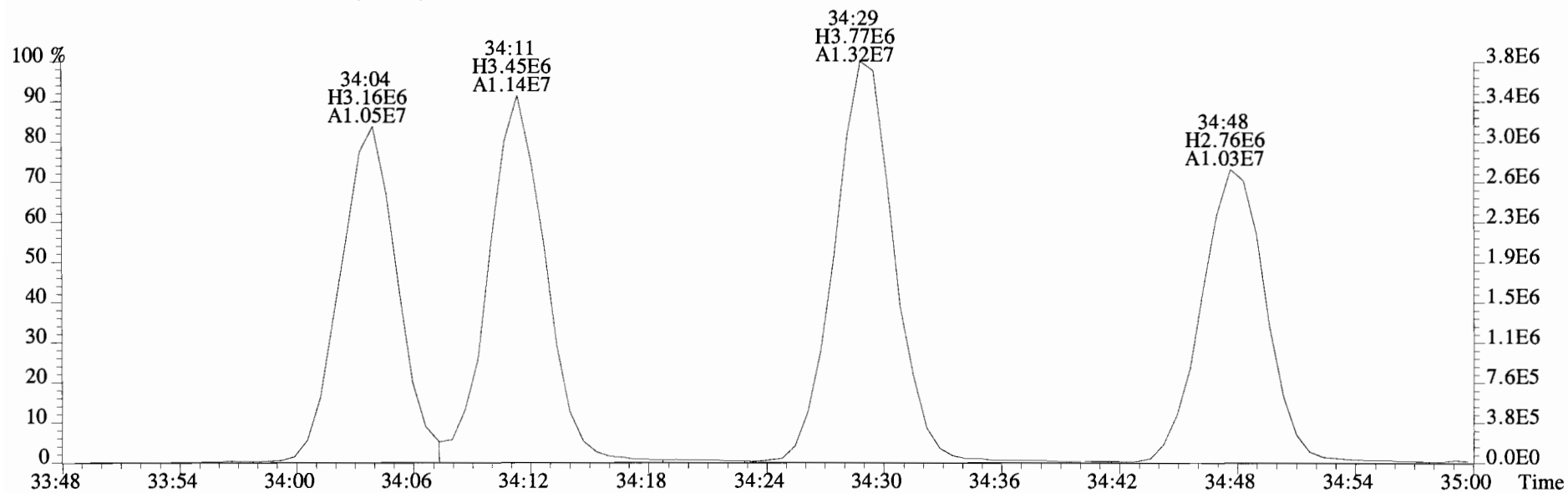
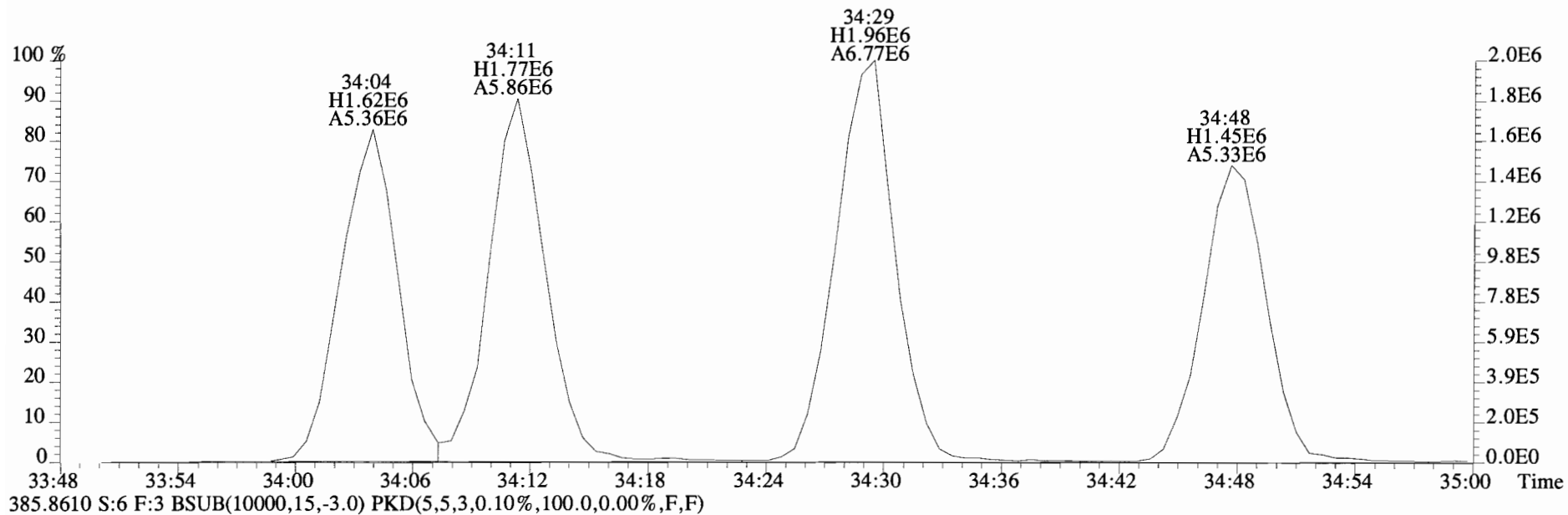
385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



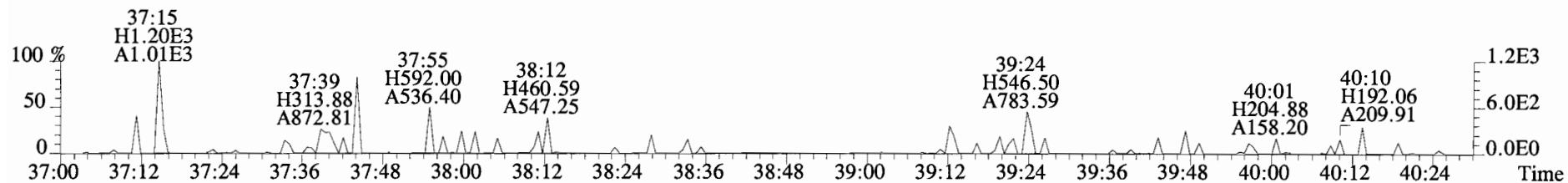
445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



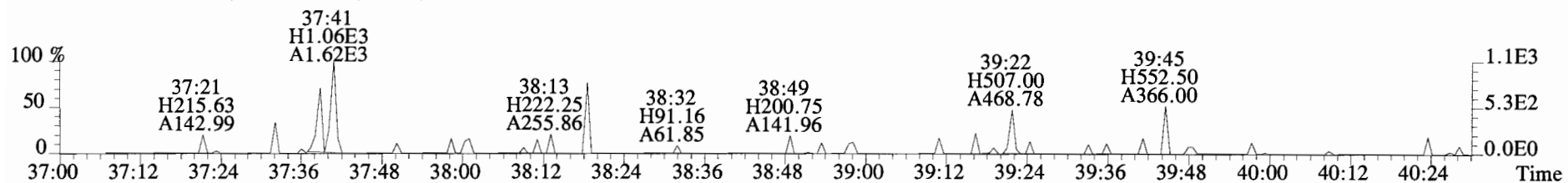
File:140922D1 #1-385 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0066-BLK1 Method Blank 1 Exp:OCDD_DB5
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



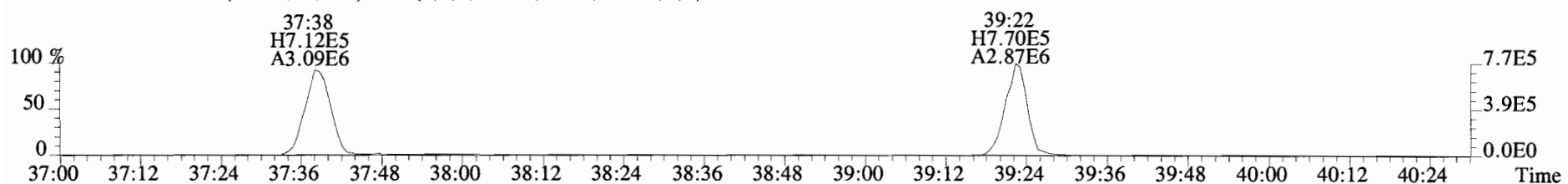
File:140922D1 #1-326 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0066-BLK1 Method Blank 1 Exp:OCDD_DB5
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



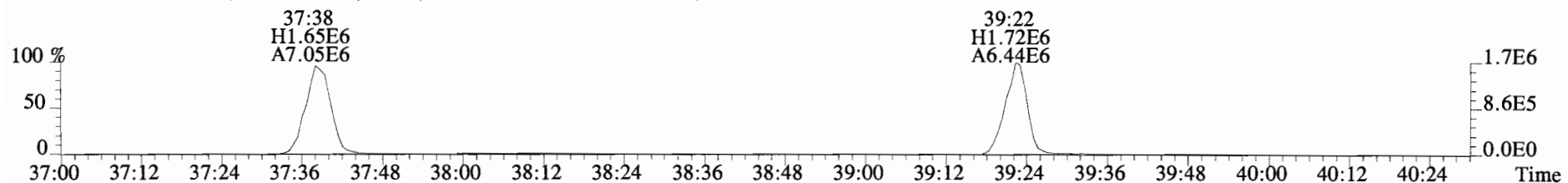
409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



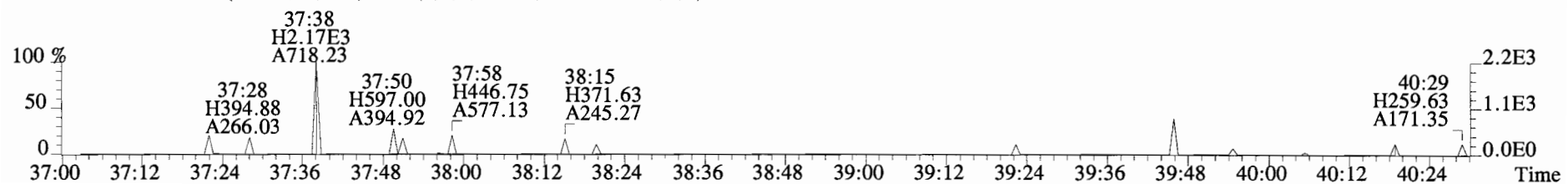
417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



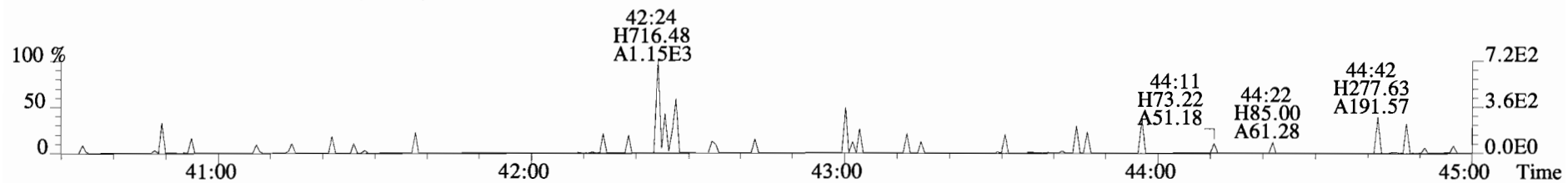
419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



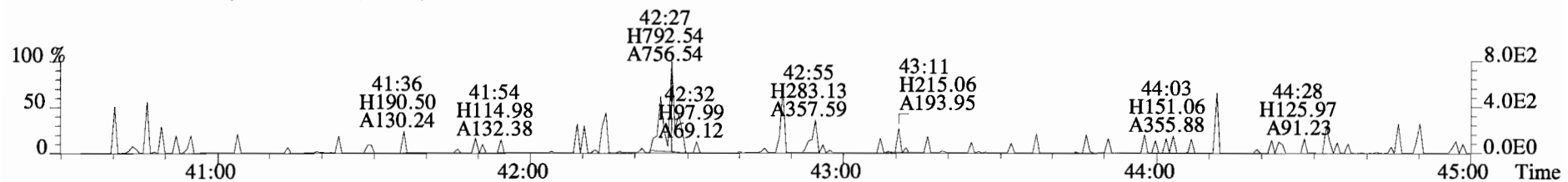
479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



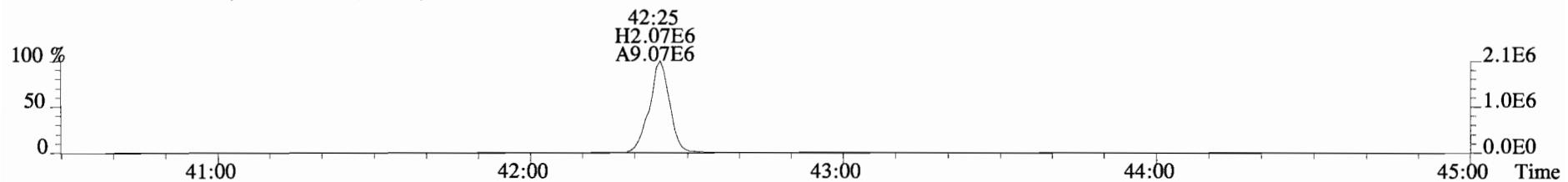
File:140922D1 #1-389 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0066-BLK1 Method Blank 1 Exp:OCDD_DB5
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



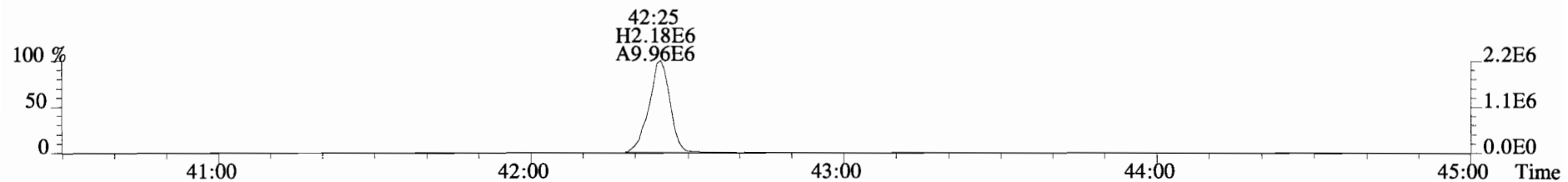
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



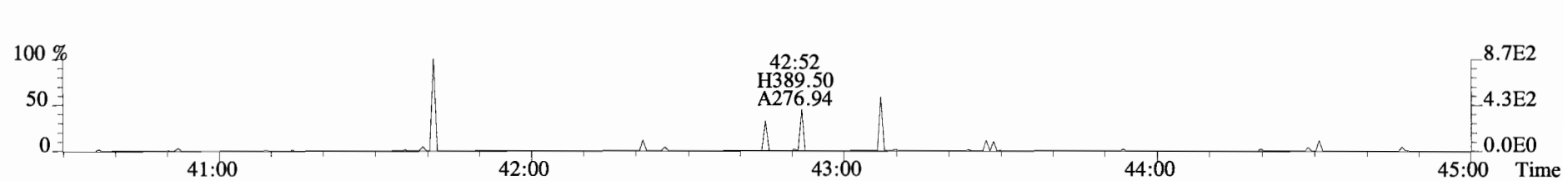
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)



FORM 8A
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory Extraction Batch: B4I0066-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS OPR Data Filename: 140922D1-3

Ext. Date: 9-19-14 Shift: Day Analysis Date: 22-SEP-14 Time: 15:09:53

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 | 9.91 | 6.7 - 15.8 7.3 - 14.6 (2) |
| 1,2,3,7,8-PeCDD | 50 | 49.7 | 35.0 - 71.0 |
| 1,2,3,4,7,8-HxCDD | 50 | 48.5 | 35.0 - 82.0 |
| 1,2,3,6,7,8-HxCDD | 50 | 50.6 | 38.0 - 67.0 |
| 1,2,3,7,8,9-HxCDD | 50 | 49.1 | 32.0 - 81.0 |
| 1,2,3,4,6,7,8-HpCDD | 50 | 51.4 | 35.0 - 70.0 |
| OCDD | 100 | 96.5 | 78.0 - 144.0 |
| 2,3,7,8-TCDF | 10 | 10.3 | 7.5 - 15.8 8.0 - 14.7 (2) |
| 1,2,3,7,8-PeCDF | 50 | 51.1 | 40.0 - 67.0 |
| 2,3,4,7,8-PeCDF | 50 | 53.0 | 34.0 - 80.0 |
| 1,2,3,4,7,8-HxCDF | 50 | 48.0 | 36.0 - 67.0 |
| 1,2,3,6,7,8-HxCDF | 50 | 50.0 | 42.0 - 65.0 |
| 2,3,4,6,7,8-HxCDF | 50 | 48.1 | 35.0 - 78.0 |
| 1,2,3,7,8,9-HxCDF | 50 | 48.5 | 39.0 - 65.0 |
| 1,2,3,4,6,7,8-HpCDF | 50 | 44.6 | 41.0 - 61.0 |
| 1,2,3,4,7,8,9-HpCDF | 50 | 45.5 | 39.0 - 69.0 |
| OCDF | 100 | 102 | 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: 9/23/14

FORM 8B
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory Extraction Batch: B4I0066-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS OPR Data Filename: 140922D1-3

Ext. Date: 9-19-14 Shift: Day Analysis Date: 22-SEP-14 Time: 15:09:53

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 | 80.1 | 20.0 - 175.0 25.0 - 141.0 (2) |
| 13C-1,2,3,7,8-PeCDD | 100 | 84.4 | 21.0 - 227.0 |
| 13C-1,2,3,4,7,8-HxCDD | 100 | 76.5 | 21.0 - 193.0 |
| 13C-1,2,3,6,7,8-HxCDD | 100 | 76.7 | 25.0 - 163.0 |
| 13C-1,2,3,7,8,9-HxCDD | 100 | 74.6 | 21.0 - 193.0 |
| 13C-1,2,3,4,6,7,8-HpCDD | 100 | 67.4 | 26.0 - 166.0 |
| 13C-OCDD | 200 | 137 | 26.0 - 397.0 |
| 13C-2,3,7,8-TCDF | 100 | 84.4 | 22.0 - 152.0 26.0 - 126.0 (2) |
| 13C-1,2,3,7,8-PeCDF | 100 | 84.4 | 21.0 - 192.0 |
| 13C-2,3,4,7,8-PeCDF | 100 | 83.0 | 13.0 - 328.0 |
| 13C-1,2,3,4,7,8-HxCDF | 100 | 84.2 | 19.0 - 202.0 |
| 13C-1,2,3,6,7,8-HxCDF | 100 | 69.7 | 21.0 - 159.0 |
| 13C-2,3,4,6,7,8-HxCDF | 100 | 74.4 | 22.0 - 176.0 |
| 13C-1,2,3,7,8,9-HxCDF | 100 | 73.1 | 17.0 - 205.0 |
| 13C-1,2,3,4,6,7,8-HpCDF | 100 | 70.8 | 21.0 - 158.0 |
| 13C-1,2,3,4,7,8,9-HpCDF | 100 | 71.3 | 20.0 - 186.0 |
| 13C-OCDF | 200 | 120 | 26.0 - 397.0 |
| CLEANUP STANDARD | | | |
| 37Cl-2,3,7,8-TCDD | 40 | 37.4 | 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: VM

Date: 9/23/14

| Name | Resp | RA | RRF | RT | RRT | Conc | Q | noise | Fac | DL | Name | Conc | EMPC | Qual | noise | DL |
|---------------------|----------|--------|------|-------|-------|--------|---|-------|-----|----|---------------------|--------|--------|------|-------|----|
| 2,3,7,8-TCDD | 1.70e+06 | 0.74 y | 1.03 | 27:12 | 1.001 | 9.9104 | * | 2.5 | * | * | Total Tetra-Dioxins | 10.2 | 10.3 | * | * | |
| 1,2,3,7,8-PeCDD | 7.45e+06 | 0.59 y | 0.84 | 31:39 | 1.000 | 49.680 | * | 2.5 | * | * | Total Penta-Dioxins | 49.9 | 50.1 | * | * | |
| 1,2,3,4,7,8-HxCDD | 5.63e+06 | 1.25 y | 1.05 | 34:59 | 1.000 | 48.513 | * | 2.5 | * | * | Total Hexa-Dioxins | 148 | 149 | * | * | |
| 1,2,3,6,7,8-HxCDD | 5.87e+06 | 1.23 y | 1.04 | 35:06 | 1.000 | 50.568 | * | 2.5 | * | * | Total Hepta-Dioxins | 52.0 | 53.0 | * | * | |
| 1,2,3,7,8,9-HxCDD | 5.69e+06 | 1.24 y | 0.90 | 35:24 | 1.000 | 49.111 | * | 2.5 | * | * | Total Tetra-Furans | 10.4 | 10.7 | * | * | |
| 1,2,3,4,6,7,8-HpCDD | 4.78e+06 | 1.06 y | 1.01 | 38:50 | 1.000 | 51.374 | * | 2.5 | * | * | Total Penta-Furans | 104.67 | 106.19 | * | * | |
| OCDD | 7.88e+06 | 0.89 y | 1.04 | 42:12 | 1.000 | 96.533 | * | 2.5 | * | * | Total Hexa-Furans | 195 | 195 | * | * | |
| | | | | | | | | | | | Total Hepta-Furans | 90.1 | 91.4 | * | * | |
| 2,3,7,8-TCDF | 2.10e+06 | 0.79 y | 0.91 | 26:26 | 1.001 | 10.321 | * | 2.5 | * | * | | | | | | |
| 1,2,3,7,8-PeCDF | 1.13e+07 | 1.64 y | 0.97 | 30:29 | 1.000 | 51.111 | * | 2.5 | * | * | | | | | | |
| 2,3,4,7,8-PeCDF | 1.14e+07 | 1.57 y | 0.94 | 31:22 | 1.000 | 53.019 | * | 2.5 | * | * | | | | | | |
| 1,2,3,4,7,8-HxCDF | 9.74e+06 | 1.29 y | 1.32 | 34:05 | 1.000 | 47.961 | * | 2.5 | * | * | | | | | | |
| 1,2,3,6,7,8-HxCDF | 9.79e+06 | 1.27 y | 1.18 | 34:13 | 1.000 | 50.025 | * | 2.5 | * | * | | | | | | |
| 2,3,4,6,7,8-HxCDF | 8.84e+06 | 1.28 y | 1.23 | 34:49 | 1.000 | 48.116 | * | 2.5 | * | * | | | | | | |
| 1,2,3,7,8,9-HxCDF | 6.90e+06 | 1.28 y | 1.13 | 35:48 | 1.001 | 48.520 | * | 2.5 | * | * | | | | | | |
| 1,2,3,4,6,7,8-HpCDF | 6.82e+06 | 1.05 y | 1.57 | 37:39 | 1.000 | 44.559 | * | 2.5 | * | * | | | | | | |
| 1,2,3,4,7,8,9-HpCDF | 6.08e+06 | 1.10 y | 1.50 | 39:24 | 1.000 | 45.456 | * | 2.5 | * | * | | | | | | |
| OCDF | 9.55e+06 | 0.92 y | 1.05 | 42:26 | 1.000 | 102.07 | * | 2.5 | * | * | | | | | | |

| IS | 13C-2,3,7,8-TCDD | 1.66e+07 | 0.81 y | 1.06 | 27:11 | 1.021 | 80.103 | | | |
|----|-------------------------|----------|--------|------|-------|-------|--------|--|--|--|
| IS | 13C-1,2,3,7,8-PeCDD | 1.78e+07 | 0.63 y | 1.08 | 31:38 | 1.188 | 84.354 | | | |
| IS | 13C-1,2,3,4,7,8-HxCDD | 1.10e+07 | 1.24 y | 0.74 | 34:58 | 1.014 | 76.534 | | | |
| IS | 13C-1,2,3,6,7,8-HxCDD | 1.12e+07 | 1.25 y | 0.75 | 35:05 | 1.017 | 76.681 | | | |
| IS | 13C-1,2,3,7,8,9-HxCDD | 1.29e+07 | 1.28 y | 0.89 | 35:23 | 1.026 | 74.628 | | | |
| IS | 13C-1,2,3,4,6,7,8-HpCDD | 9.21e+06 | 1.03 y | 0.70 | 38:49 | 1.125 | 67.376 | | | |
| IS | 13C-OCDD | 1.57e+07 | 0.87 y | 0.59 | 42:11 | 1.223 | 136.63 | | | |
| IS | 13C-2,3,7,8-TCDF | 2.23e+07 | 0.75 y | 0.97 | 26:25 | 0.992 | 84.426 | | | |
| IS | 13C-1,2,3,7,8-PeCDF | 2.28e+07 | 1.60 y | 0.99 | 30:28 | 1.144 | 84.355 | | | |
| IS | 13C-2,3,4,7,8-PeCDF | 2.28e+07 | 1.58 y | 1.01 | 31:21 | 1.177 | 83.000 | | | |
| IS | 13C-1,2,3,4,7,8-HxCDF | 1.54e+07 | 0.50 y | 0.94 | 34:04 | 0.988 | 84.215 | | | |
| IS | 13C-1,2,3,6,7,8-HxCDF | 1.67e+07 | 0.53 y | 1.23 | 34:12 | 0.991 | 69.707 | | | |
| IS | 13C-2,3,4,6,7,8-HxCDF | 1.50e+07 | 0.53 y | 1.03 | 34:48 | 1.009 | 74.429 | | | |
| IS | 13C-1,2,3,7,8,9-HxCDF | 1.26e+07 | 0.52 y | 0.89 | 35:47 | 1.037 | 73.118 | | | |
| IS | 13C-1,2,3,4,6,7,8-HpCDF | 9.73e+06 | 0.44 y | 0.71 | 37:39 | 1.091 | 70.842 | | | |
| IS | 13C-1,2,3,4,7,8,9-HpCDF | 8.91e+06 | 0.44 y | 0.64 | 39:23 | 1.142 | 71.289 | | | |
| IS | 13C-OCDF | 1.77e+07 | 0.91 y | 0.76 | 42:25 | 1.230 | 120.37 | | | |

| Rec | Qual |
|------|------|
| 80.1 | |
| 84.4 | |
| 76.5 | |
| 76.7 | |
| 74.6 | |
| 67.4 | |
| 68.3 | |
| 84.4 | |
| 84.4 | |
| 83.0 | |
| 84.2 | |
| 69.7 | |
| 74.4 | |
| 73.1 | |
| 70.8 | |
| 71.3 | |
| 60.2 | |

| | | | | | | | | | | |
|-------|-----------------------|----------|--------|------|-------|-------|--------|--|--|--|
| C/Up | 37C1-2,3,7,8-TCDD | 7.61e+06 | | 1.04 | 27:12 | 1.021 | 37.409 | | | |
| RS/RT | 13C-1,2,3,4-TCDD | 1.95e+07 | 0.78 y | 1.00 | 26:37 | * | 100.00 | | | |
| RS | 13C-1,2,3,4-TCDF | 2.73e+07 | 0.75 y | 1.00 | 25:14 | * | 100.00 | | | |
| RS/RT | 13C-1,2,3,4,6,9-HxCDF | 1.94e+07 | 0.52 y | 1.00 | 34:29 | * | 100.00 | | | |

Integrations Reviewed by Analyst: M Analyst: [Signature]
 Date: 9/23/14 Date: 9/23/14

| Name | Resp | RA | RRF | RT | RRT | Conc | Q | noise | Fac | DL | Name | Conc | EMPC | Qual | noise | DL |
|---------------------|----------|--------|------|-------|-------|--------|---|-------|-----|----|---------------------|--------|--------|------|-------|----|
| 2,3,7,8-TCDD | 1.70e+06 | 0.74 y | 1.03 | 27:12 | 1.001 | 198.21 | | * | 2.5 | * | Total Tetra-Dioxins | 203 | 205 | * | * | |
| 1,2,3,7,8-PeCDD | 7.45e+06 | 0.59 y | 0.84 | 31:39 | 1.000 | 993.60 | | * | 2.5 | * | Total Penta-Dioxins | 998 | 1000 | * | * | |
| 1,2,3,4,7,8-HxCDD | 5.63e+06 | 1.25 y | 1.05 | 34:59 | 1.000 | 970.26 | | * | 2.5 | * | Total Hexa-Dioxins | 2970 | 2980 | * | * | |
| 1,2,3,6,7,8-HxCDD | 5.87e+06 | 1.23 y | 1.04 | 35:06 | 1.000 | 1011.4 | | * | 2.5 | * | Total Hepta-Dioxins | 1040 | 1060 | * | * | |
| 1,2,3,7,8,9-HxCDD | 5.69e+06 | 1.24 y | 0.90 | 35:24 | 1.000 | 982.22 | | * | 2.5 | * | Total Tetra-Furans | 208 | 213 | * | * | |
| 1,2,3,4,6,7,8-HpCDD | 4.78e+06 | 1.06 y | 1.01 | 38:50 | 1.000 | 1027.5 | | * | 2.5 | * | Total Penta-Furans | 2093.4 | 2123.8 | * | * | |
| OCDD | 7.88e+06 | 0.89 y | 1.04 | 42:12 | 1.000 | 1930.7 | | * | 2.5 | * | Total Hexa-Furans | 3890 | 3910 | * | * | |
| | | | | | | | | | | | Total Hepta-Furans | 1800 | 1830 | * | * | |
| 2,3,7,8-TCDF | 2.10e+06 | 0.79 y | 0.91 | 26:26 | 1.001 | 206.43 | | * | 2.5 | * | | | | | | |
| 1,2,3,7,8-PeCDF | 1.13e+07 | 1.64 y | 0.97 | 30:29 | 1.000 | 1022.2 | | * | 2.5 | * | | | | | | |
| 2,3,4,7,8-PeCDF | 1.14e+07 | 1.57 y | 0.94 | 31:22 | 1.000 | 1060.4 | | * | 2.5 | * | | | | | | |
| 1,2,3,4,7,8-HxCDF | 9.74e+06 | 1.29 y | 1.32 | 34:05 | 1.000 | 959.22 | | * | 2.5 | * | | | | | | |
| 1,2,3,6,7,8-HxCDF | 9.79e+06 | 1.27 y | 1.18 | 34:13 | 1.000 | 1000.5 | | * | 2.5 | * | | | | | | |
| 2,3,4,6,7,8-HxCDF | 8.84e+06 | 1.28 y | 1.23 | 34:49 | 1.000 | 962.32 | | * | 2.5 | * | | | | | | |
| 1,2,3,7,8,9-HxCDF | 6.90e+06 | 1.28 y | 1.13 | 35:48 | 1.001 | 970.39 | | * | 2.5 | * | | | | | | |
| 1,2,3,4,6,7,8-HpCDF | 6.82e+06 | 1.05 y | 1.57 | 37:39 | 1.000 | 891.18 | | * | 2.5 | * | | | | | | |
| 1,2,3,4,7,8,9-HpCDF | 6.08e+06 | 1.10 y | 1.50 | 39:24 | 1.000 | 909.13 | | * | 2.5 | * | | | | | | |
| OCDF | 9.55e+06 | 0.92 y | 1.05 | 42:26 | 1.000 | 2041.5 | | * | 2.5 | * | | | | | | |

| IS | 13C-2,3,7,8-TCDD | 1.66e+07 | 0.81 y | 1.06 | 27:11 | 1.021 | 1602.1 | 80.1 |
|----|-------------------------|----------|--------|------|-------|-------|--------|------|
| IS | 13C-1,2,3,7,8-PeCDD | 1.78e+07 | 0.63 y | 1.08 | 31:38 | 1.188 | 1687.1 | 84.4 |
| IS | 13C-1,2,3,4,7,8-HxCDD | 1.10e+07 | 1.24 y | 0.74 | 34:58 | 1.014 | 1530.7 | 76.5 |
| IS | 13C-1,2,3,6,7,8-HxCDD | 1.12e+07 | 1.25 y | 0.75 | 35:05 | 1.017 | 1533.6 | 76.7 |
| IS | 13C-1,2,3,7,8,9-HxCDD | 1.29e+07 | 1.28 y | 0.89 | 35:23 | 1.026 | 1492.6 | 74.6 |
| IS | 13C-1,2,3,4,6,7,8-HpCDD | 9.21e+06 | 1.03 y | 0.70 | 38:49 | 1.125 | 1347.5 | 67.4 |
| IS | 13C-OCDD | 1.57e+07 | 0.87 y | 0.59 | 42:11 | 1.223 | 2732.6 | 68.3 |
| IS | 13C-2,3,7,8-TCDF | 2.23e+07 | 0.75 y | 0.97 | 26:25 | 0.992 | 1688.5 | 84.4 |
| IS | 13C-1,2,3,7,8-PeCDF | 2.28e+07 | 1.60 y | 0.99 | 30:28 | 1.144 | 1687.1 | 84.4 |
| IS | 13C-2,3,4,7,8-PeCDF | 2.28e+07 | 1.58 y | 1.01 | 31:21 | 1.177 | 1660.0 | 83.0 |
| IS | 13C-1,2,3,4,7,8-HxCDF | 1.54e+07 | 0.50 y | 0.94 | 34:04 | 0.988 | 1684.3 | 84.2 |
| IS | 13C-1,2,3,6,7,8-HxCDF | 1.67e+07 | 0.53 y | 1.23 | 34:12 | 0.991 | 1394.1 | 69.7 |
| IS | 13C-2,3,4,6,7,8-HxCDF | 1.50e+07 | 0.53 y | 1.03 | 34:48 | 1.009 | 1488.6 | 74.4 |
| IS | 13C-1,2,3,7,8,9-HxCDF | 1.26e+07 | 0.52 y | 0.89 | 35:47 | 1.037 | 1462.4 | 73.1 |
| IS | 13C-1,2,3,4,6,7,8-HpCDF | 9.73e+06 | 0.44 y | 0.71 | 37:39 | 1.091 | 1416.8 | 70.8 |
| IS | 13C-1,2,3,4,7,8,9-HpCDF | 8.91e+06 | 0.44 y | 0.64 | 39:23 | 1.142 | 1425.8 | 71.3 |
| IS | 13C-OCDF | 1.77e+07 | 0.91 y | 0.76 | 42:25 | 1.230 | 2407.3 | 60.2 |

Rec Qual

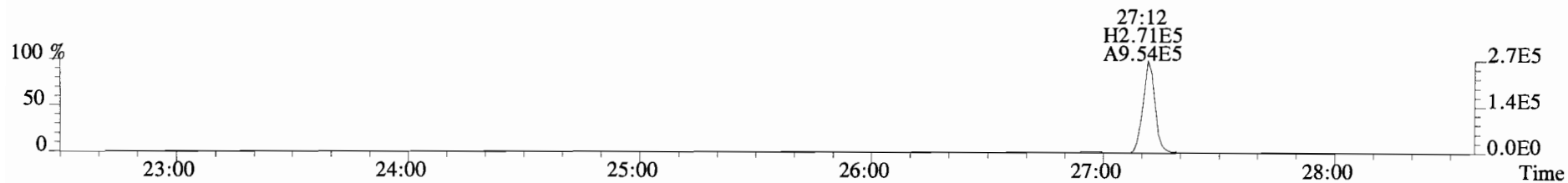
Integrations Reviewed by

Analyst: M Analyst: G/Z

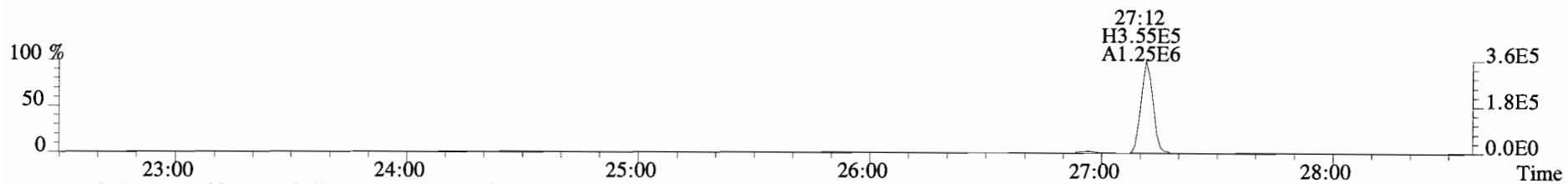
Date: 9/23/14 Date: 9/23/14

| | | | | | | | | |
|-------|-----------------------|----------|--------|------|-------|-------|--------|------|
| C/Up | 37Cl-2,3,7,8-TCDD | 7.61e+06 | | 1.04 | 27:12 | 1.021 | 748.18 | 93.5 |
| RS/RT | 13C-1,2,3,4-TCDD | 1.95e+07 | 0.78 y | 1.00 | 26:37 | * | 2000.0 | |
| RS | 13C-1,2,3,4-TCDF | 2.73e+07 | 0.75 y | 1.00 | 25:14 | * | 2000.0 | |
| RS/RT | 13C-1,2,3,4,6,9-HxCDF | 1.94e+07 | 0.52 y | 1.00 | 34:29 | * | 2000.0 | |

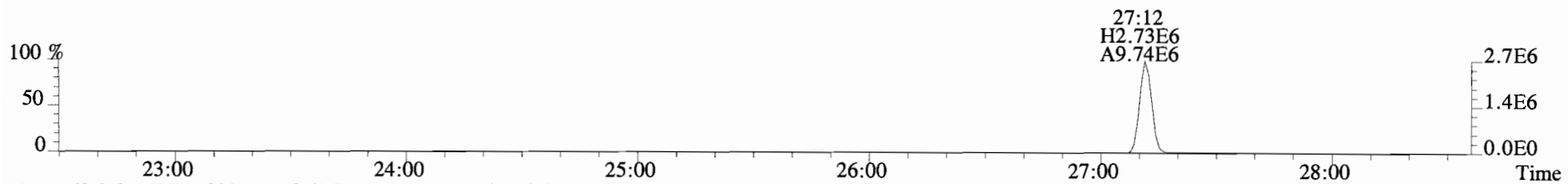
File:140922D1 #1-551 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD_DB5
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



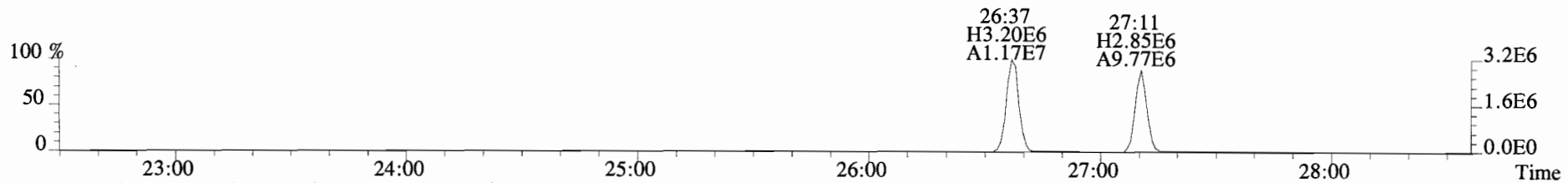
321.8936 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



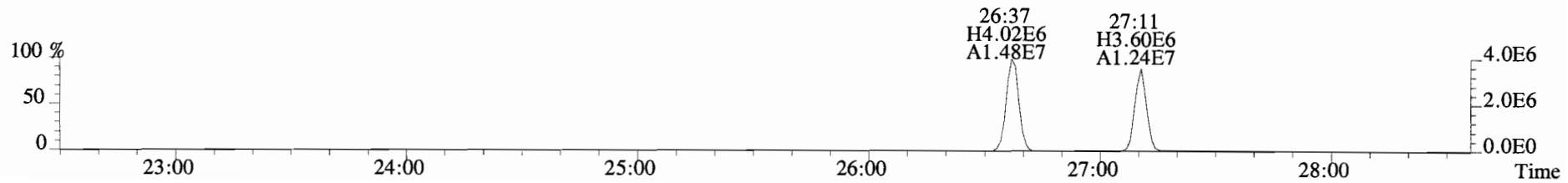
327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



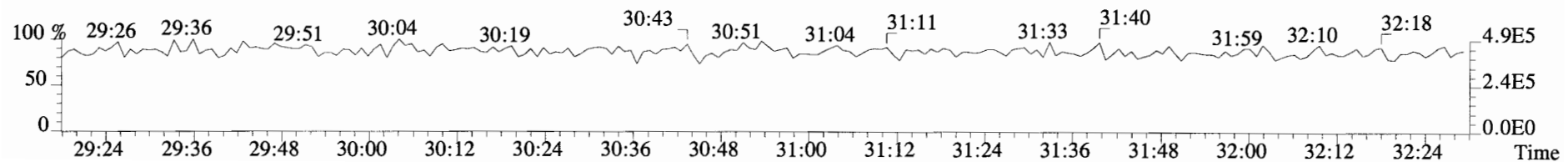
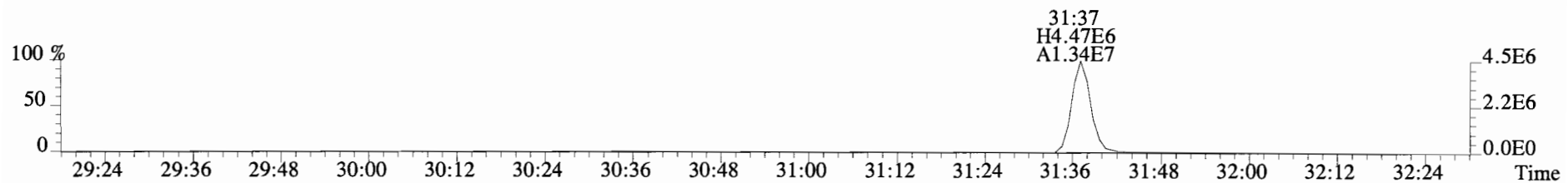
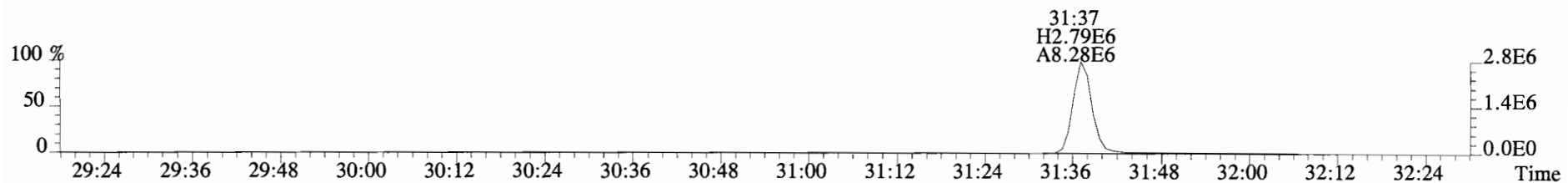
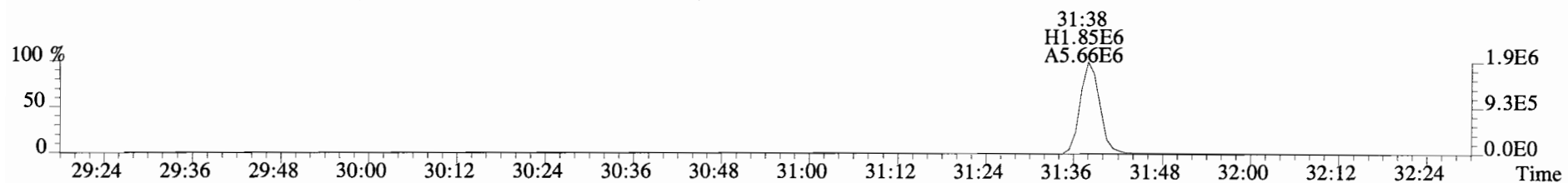
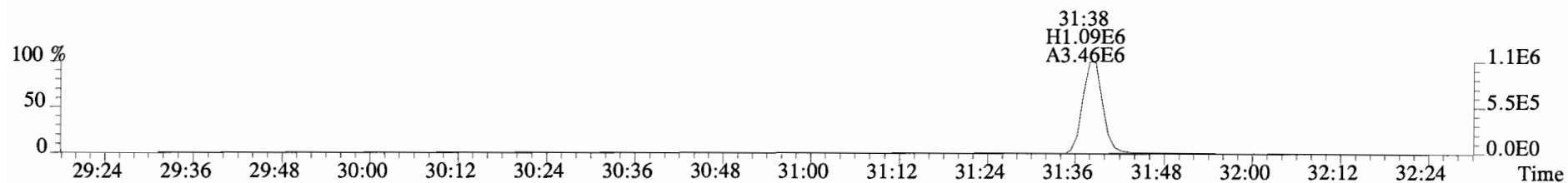
331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



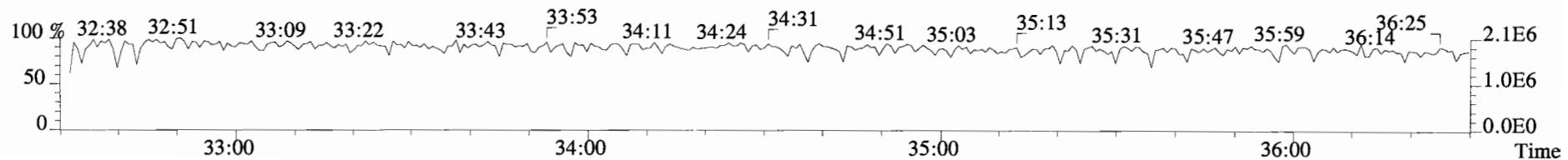
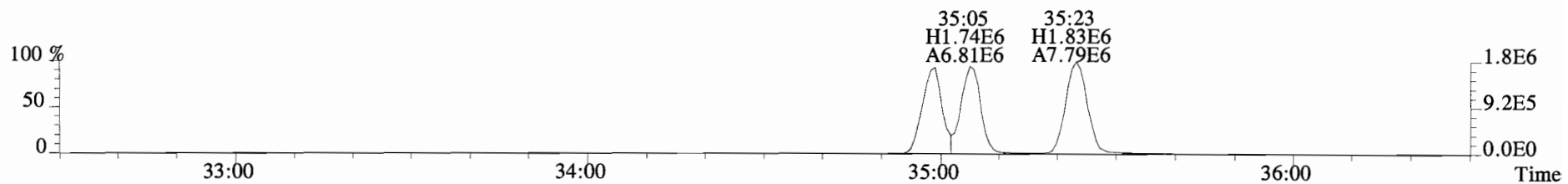
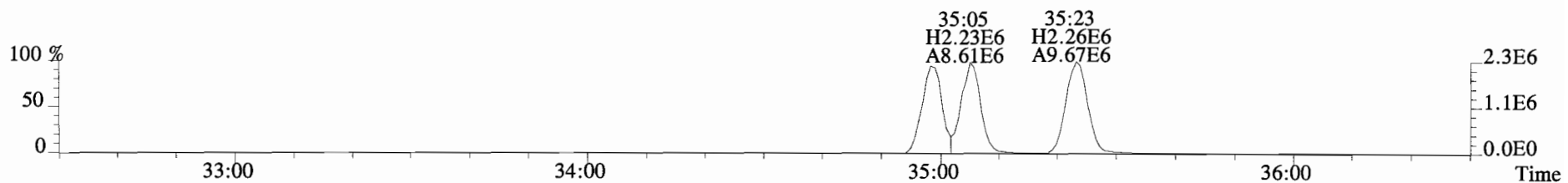
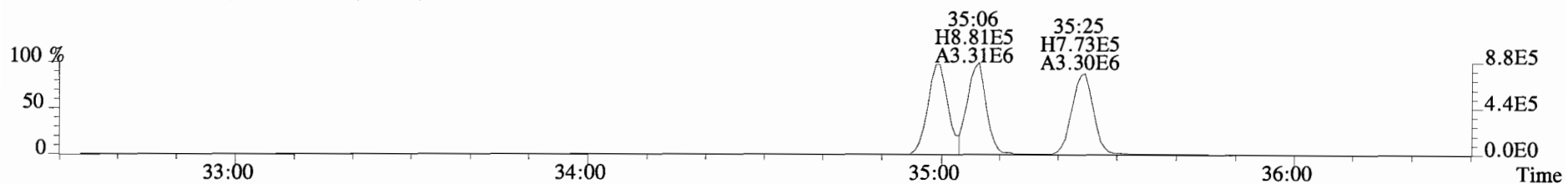
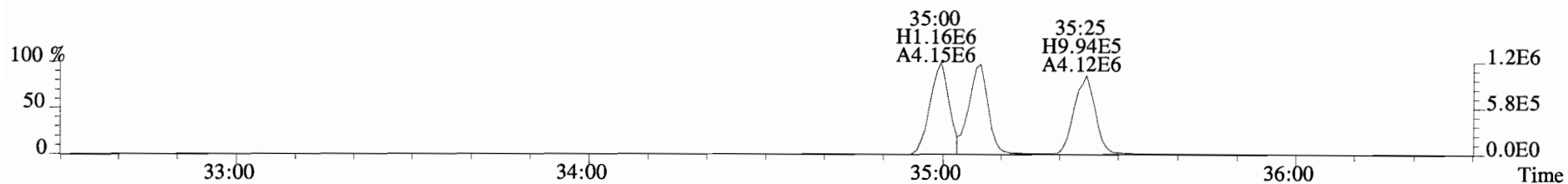
333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



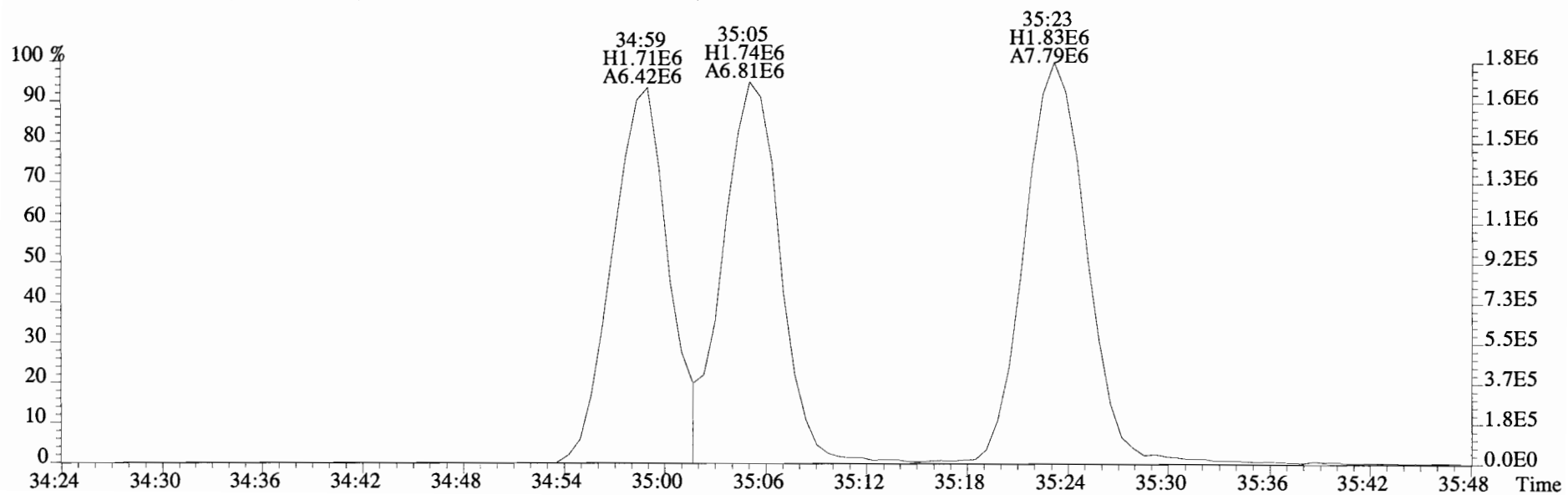
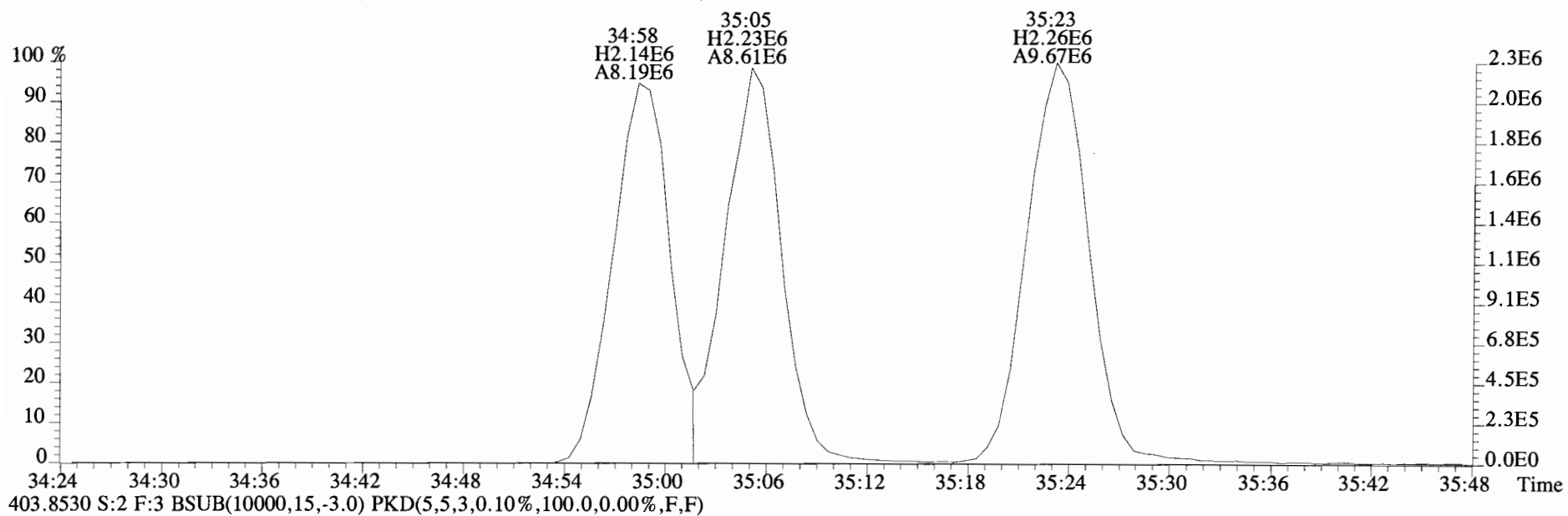
File:140922D1 #1-256 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD_DB5
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



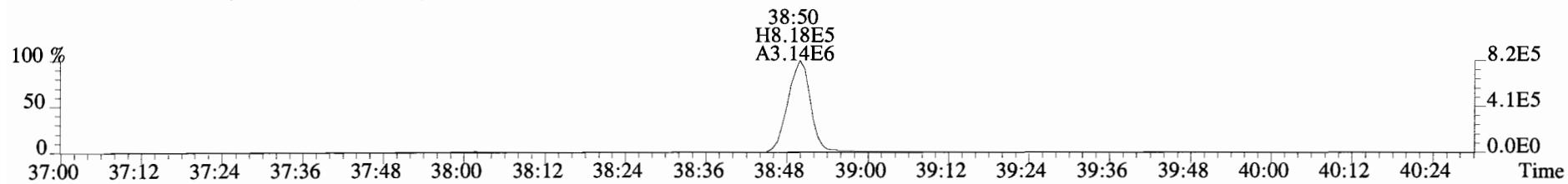
File:140922D1 #1-386 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD_DB5
 389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



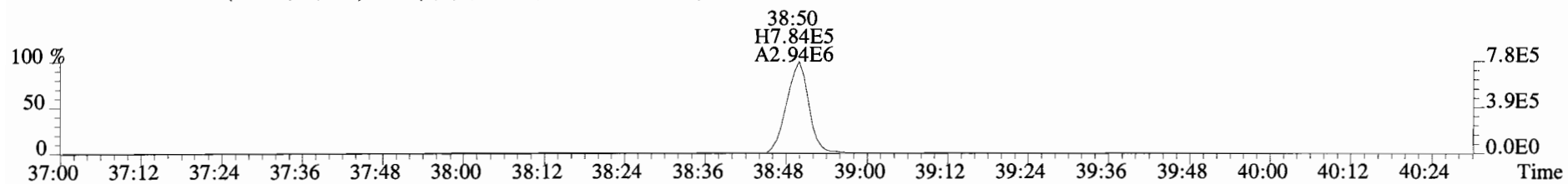
File:140922D1 #1-386 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD_DB5
401.8559 S:2 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



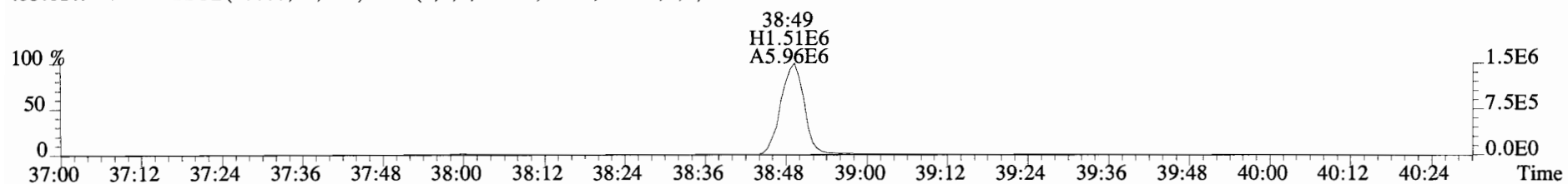
File:140922D1 #1-325 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD_DB5
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



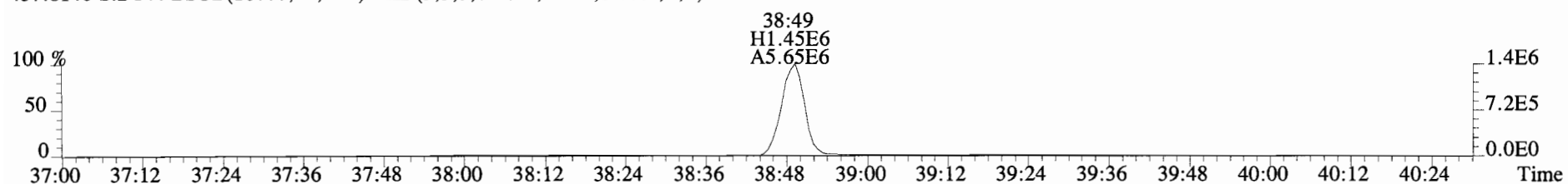
425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



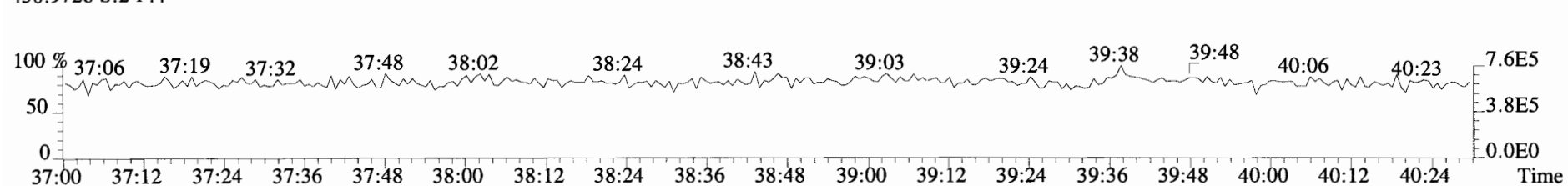
435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



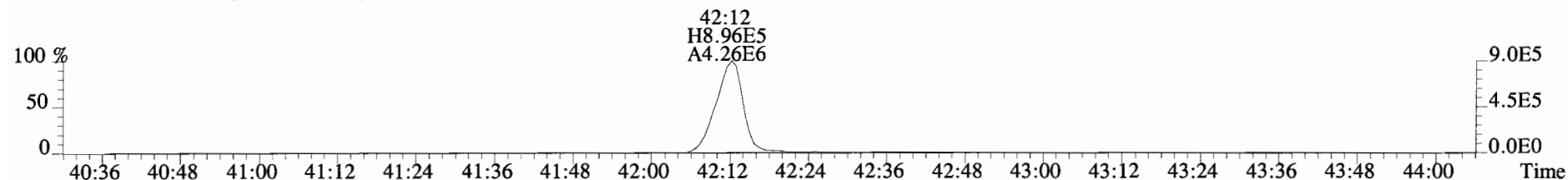
437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



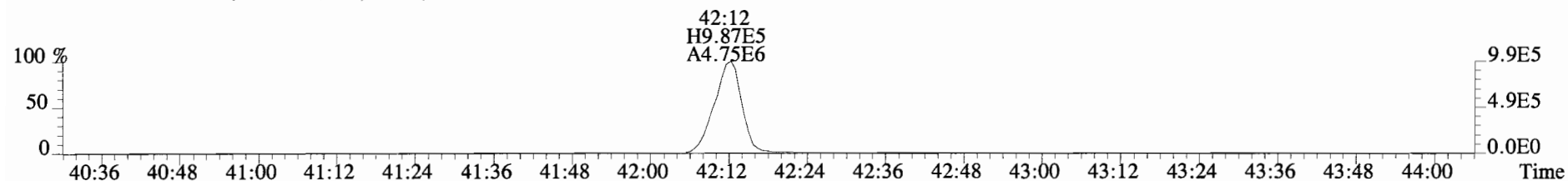
430.9728 S:2 F:4



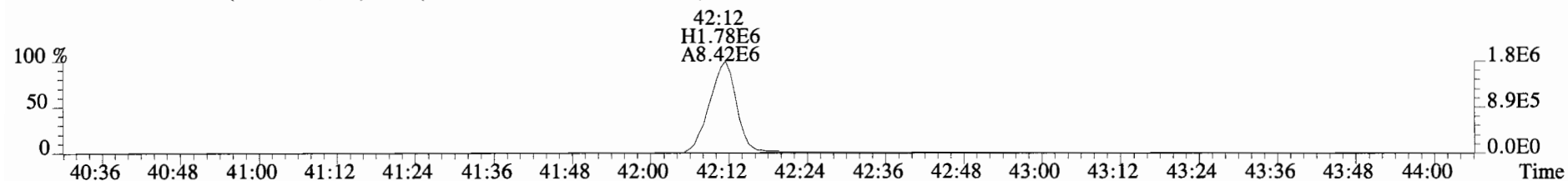
File:140922D1 #1-389 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-7 Text: B4I0065-BS1 OPR 1 Exp: OCDD_DB5
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



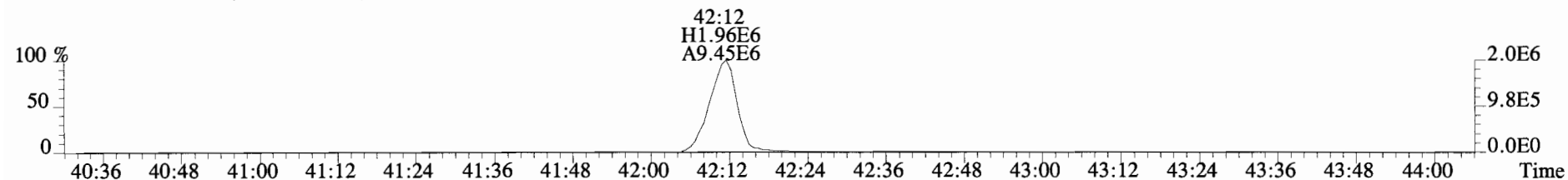
459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



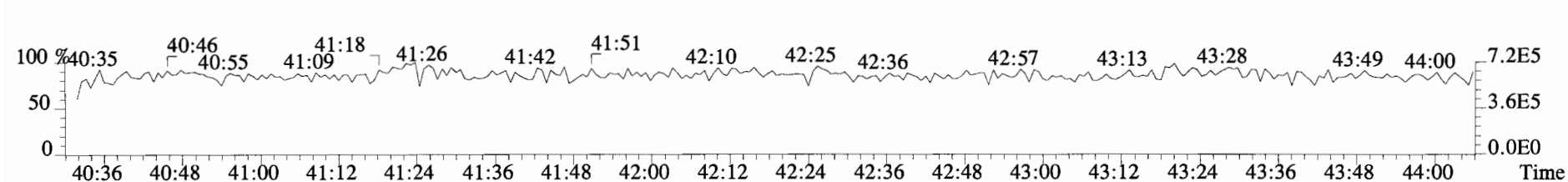
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



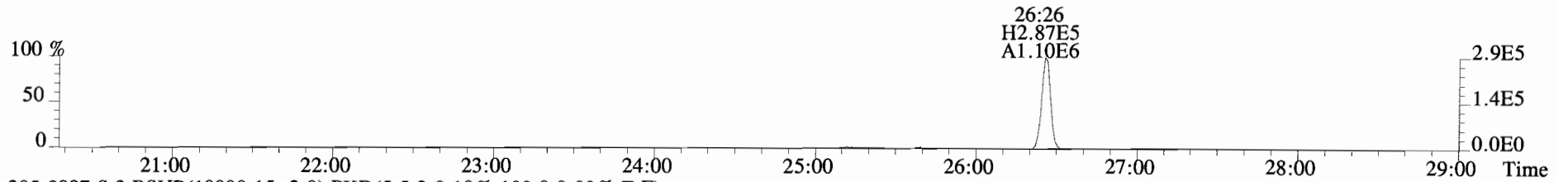
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



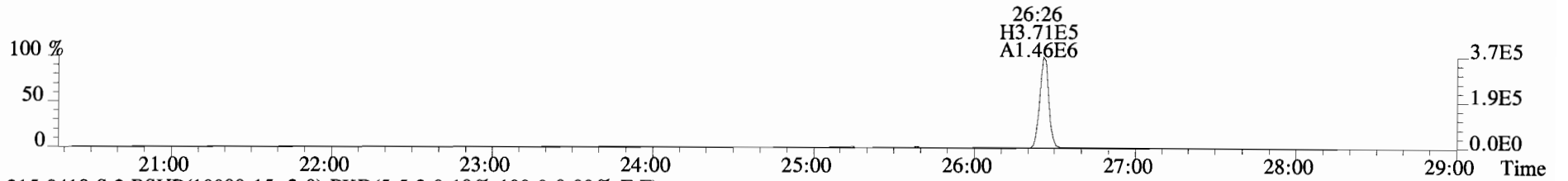
454.9728 S:2 F:5



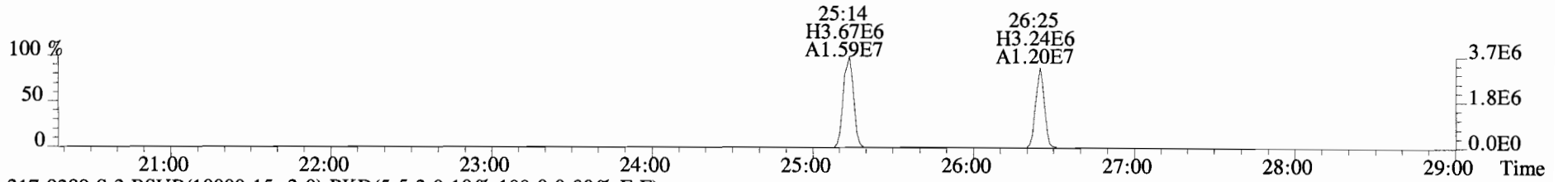
File:140922D1 #1-551 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD_DB5
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



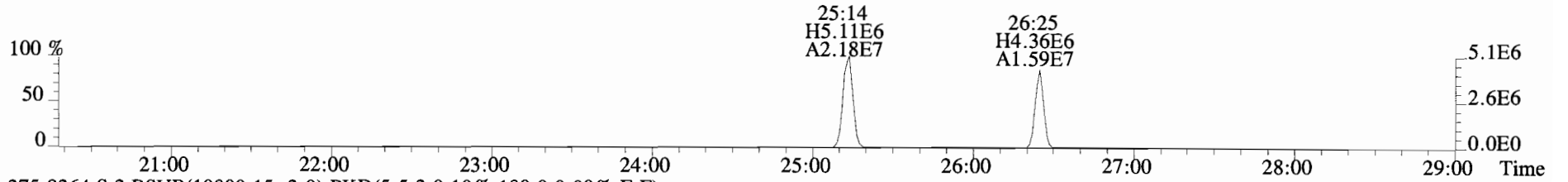
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



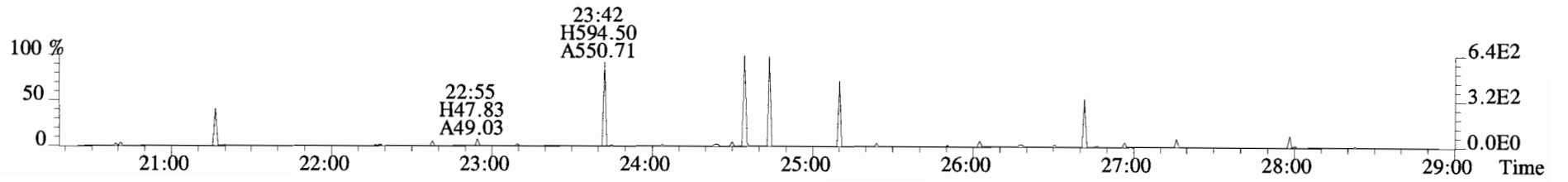
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



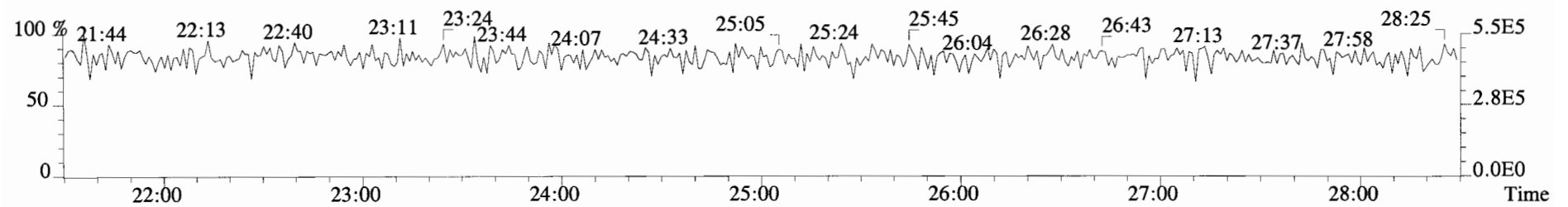
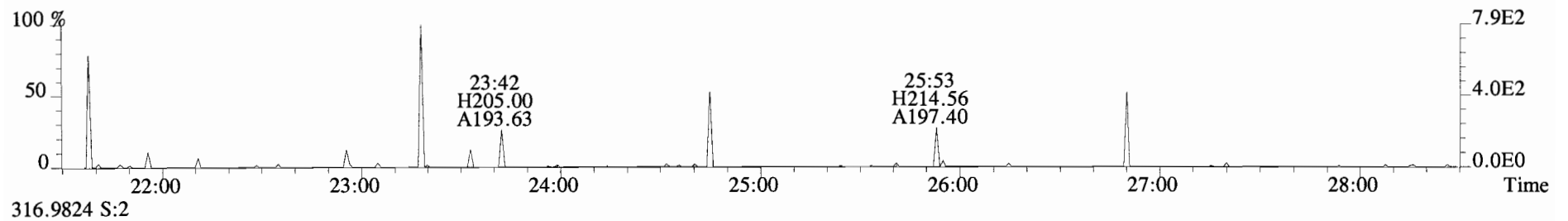
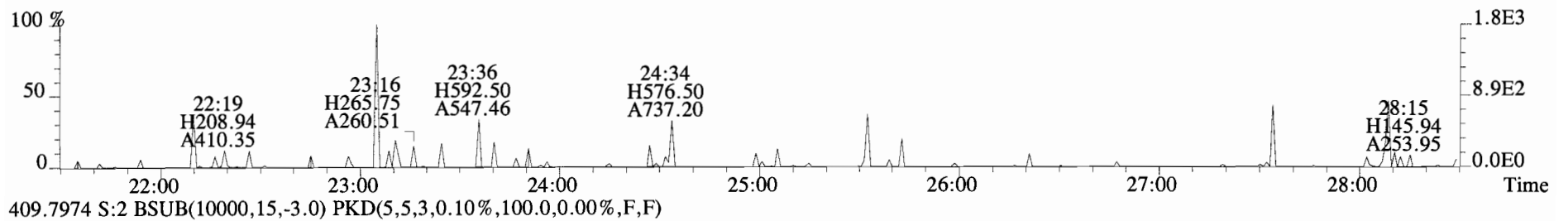
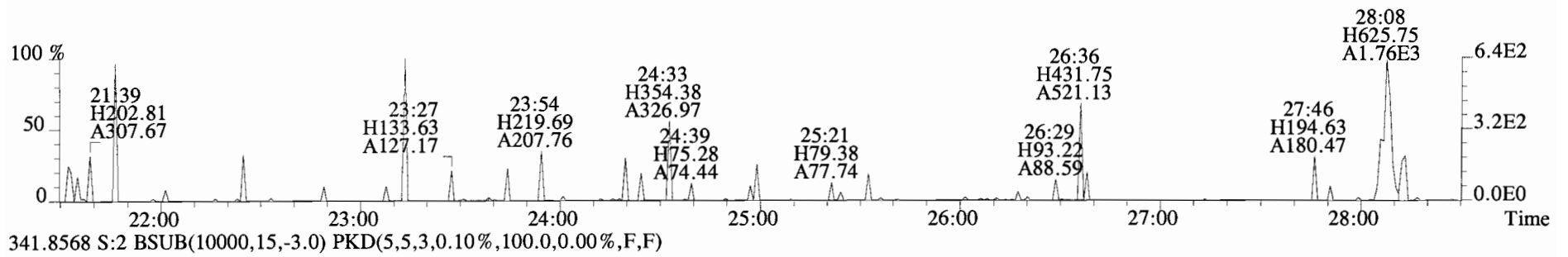
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



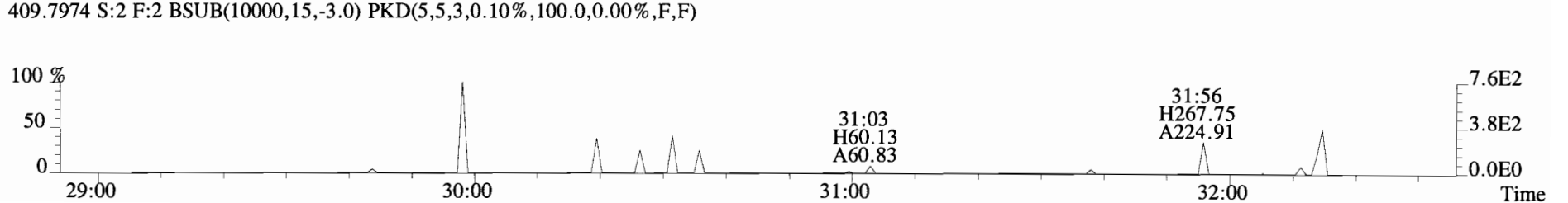
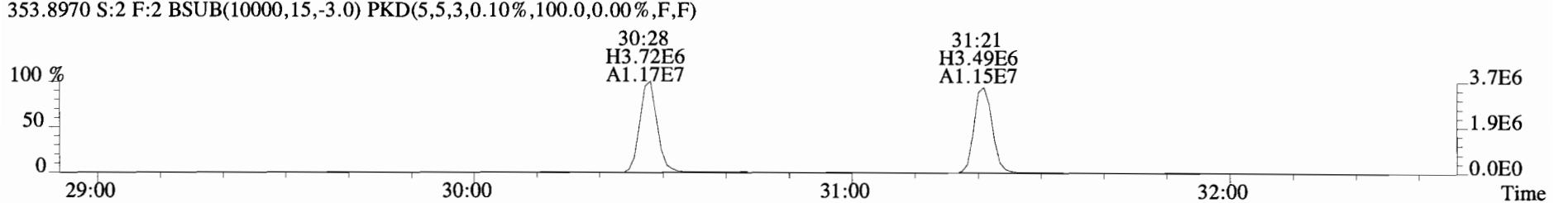
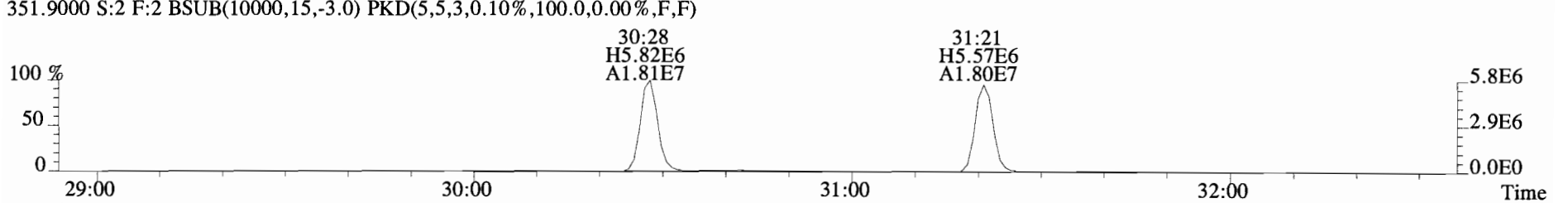
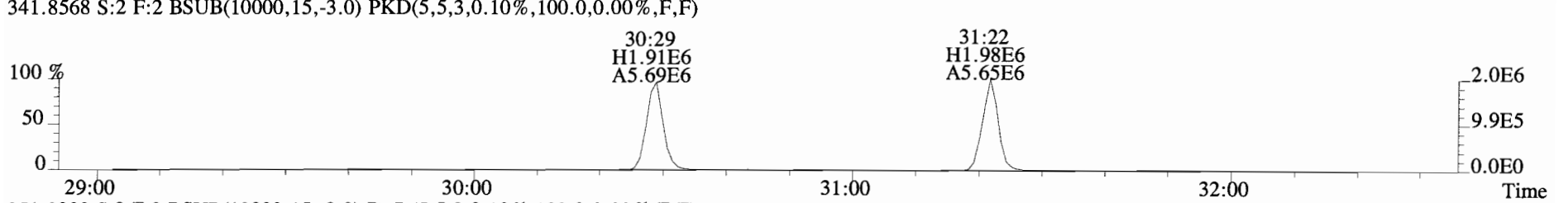
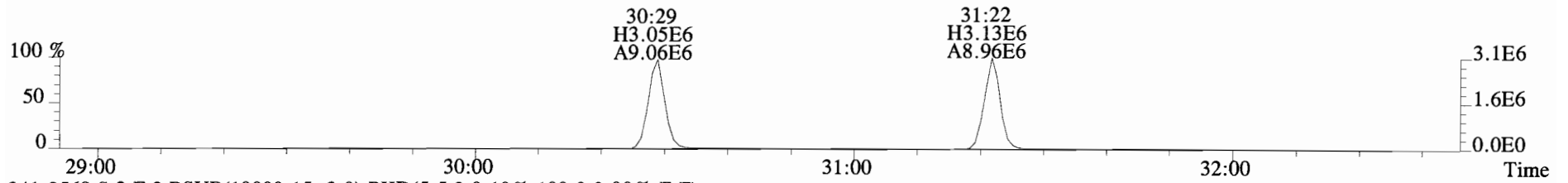
375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



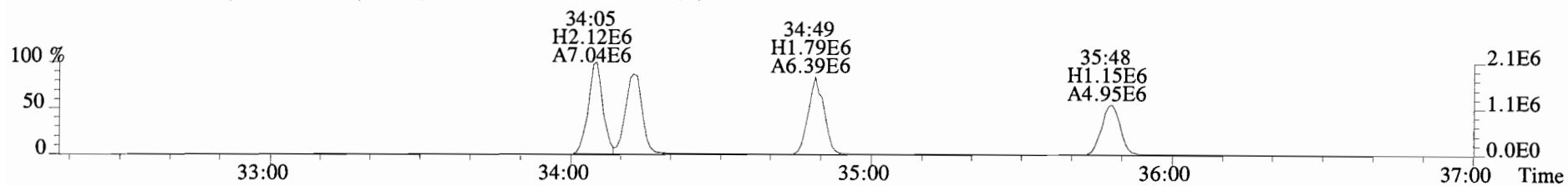
File:140922D1 #1-551 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD_DB5
339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



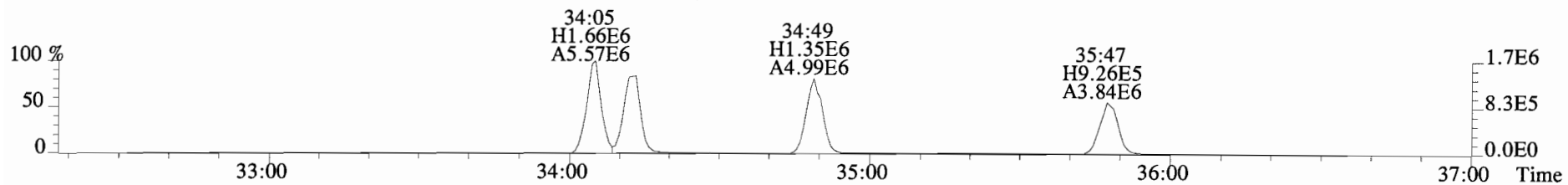
File:140922D1 #1-256 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD_DB5
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



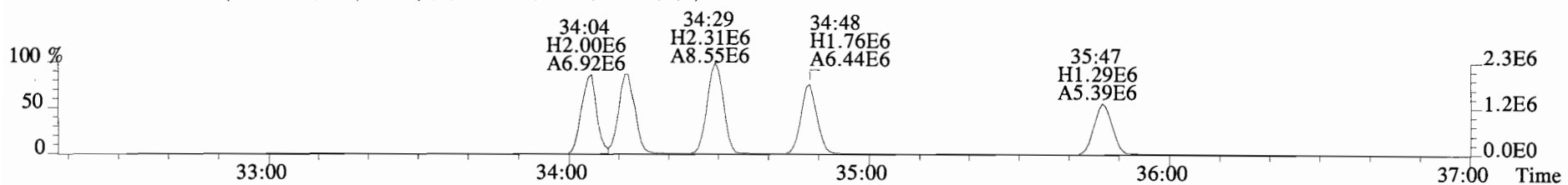
File:140922D1 #1-386 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD_DB5
373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



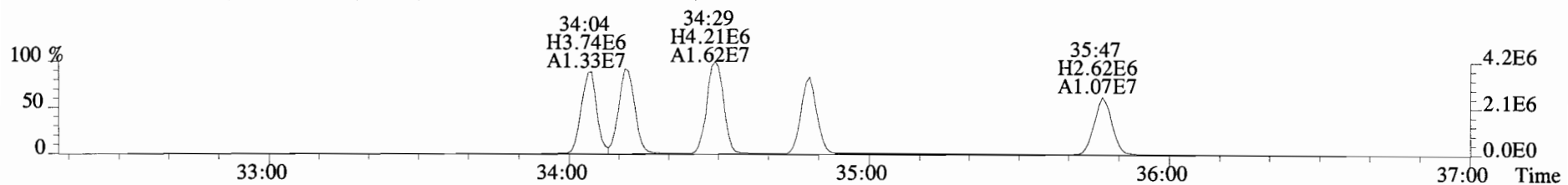
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



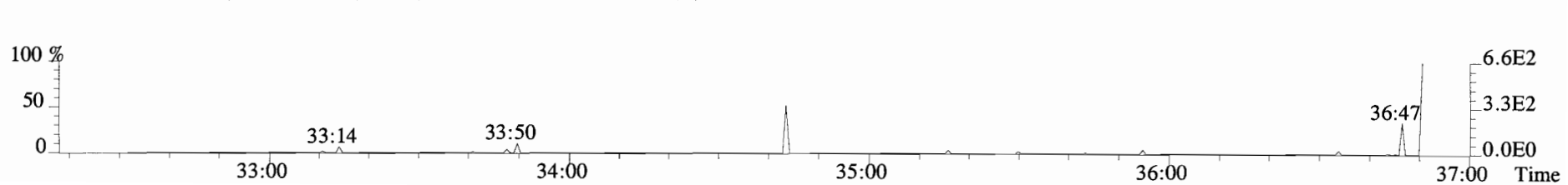
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



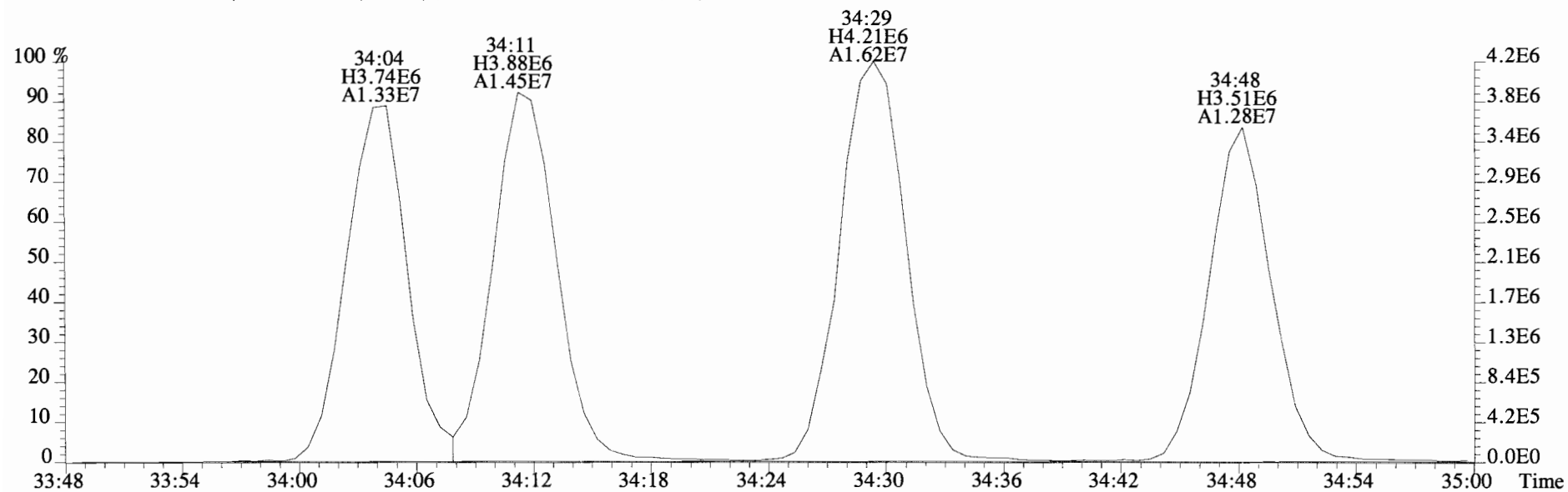
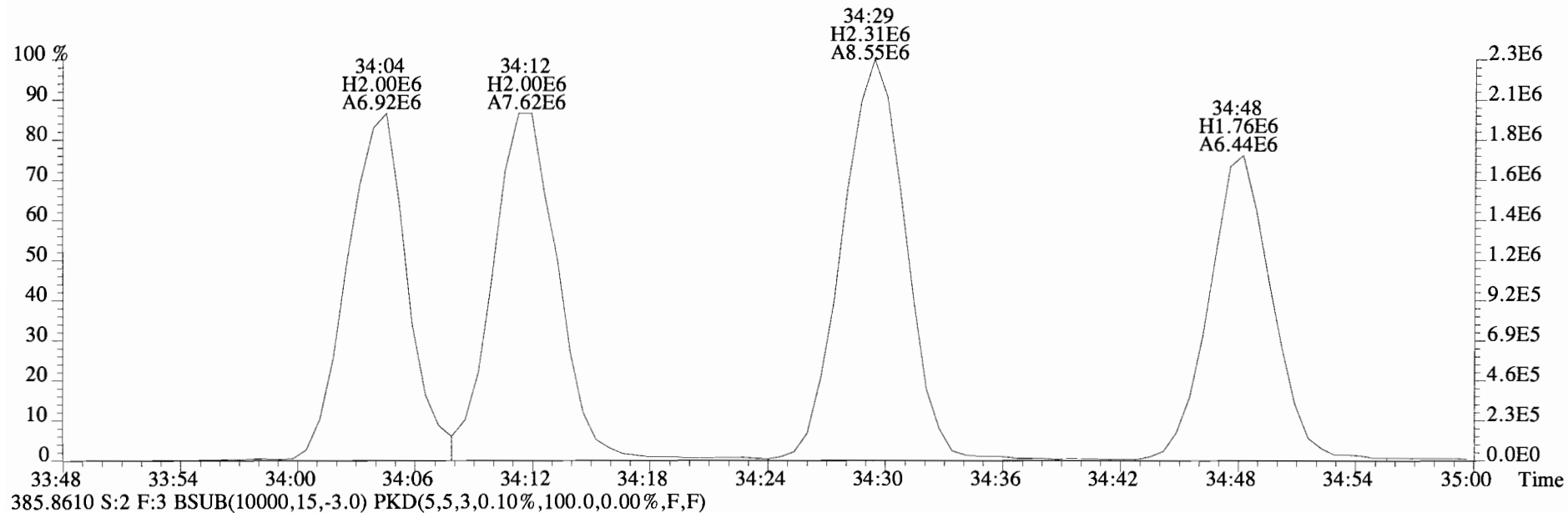
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



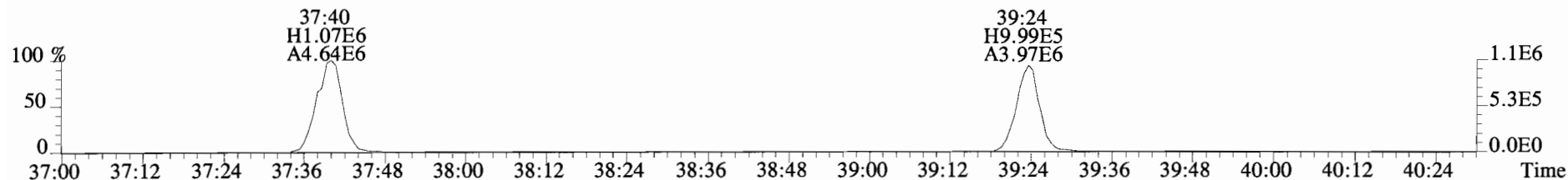
445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



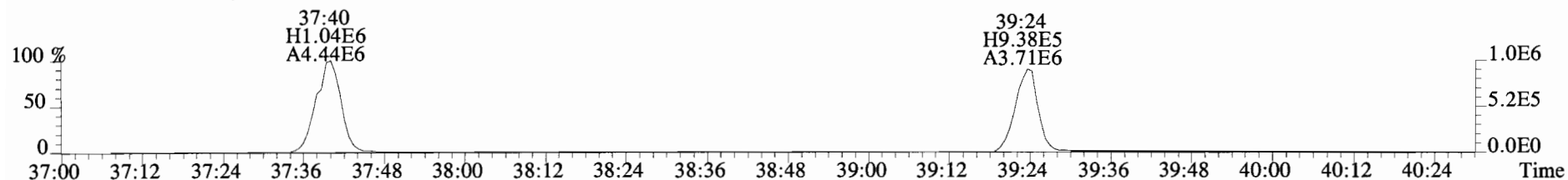
File:140922D1 #1-386 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-7 Text: B4I0065-BS1 OPR 1 Exp: OCDD_DB5
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



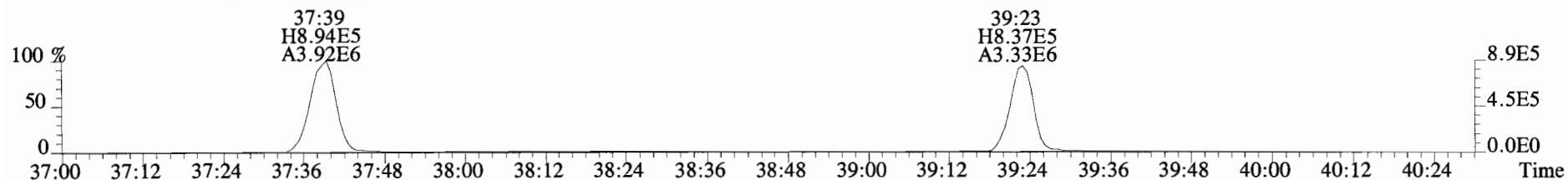
File:140922D1 #1-325 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD_DB5
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



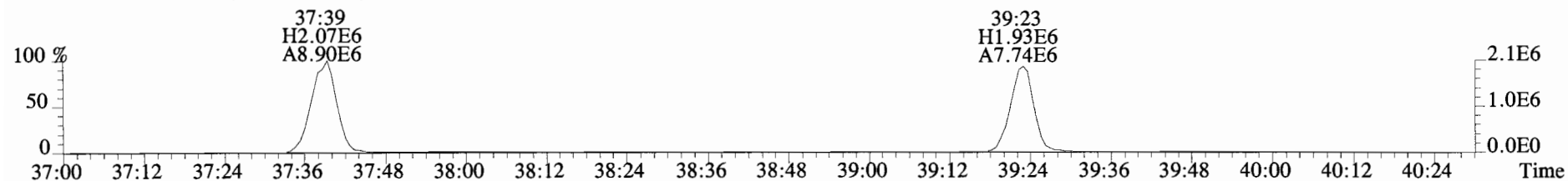
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



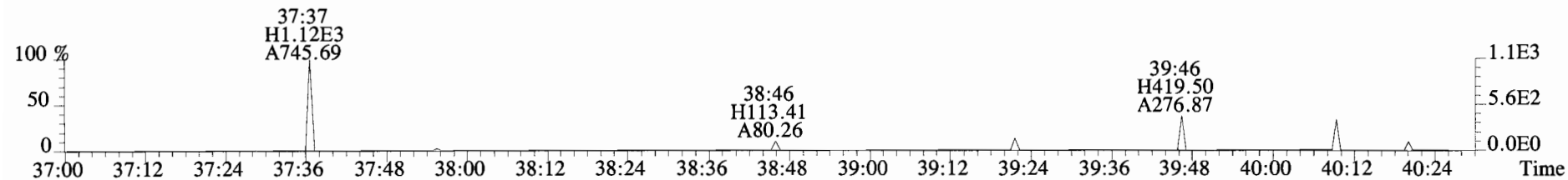
417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



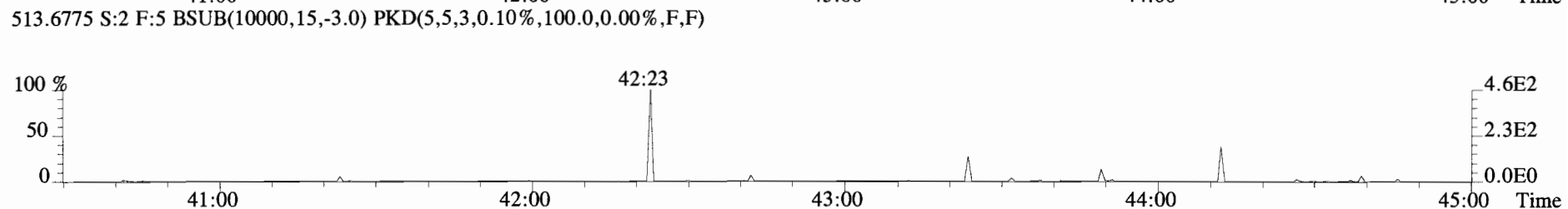
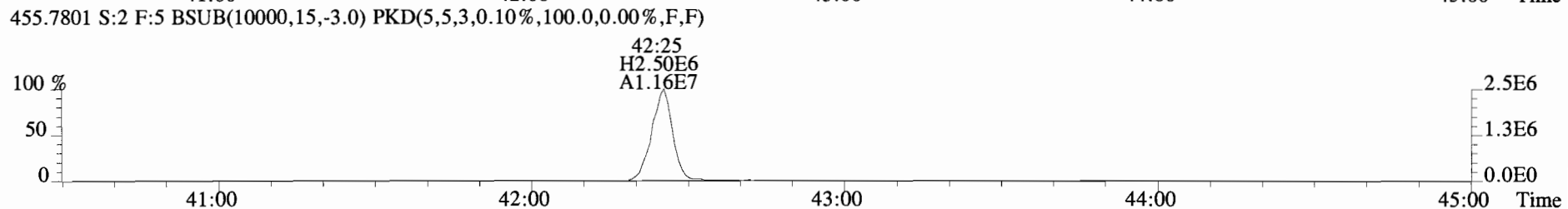
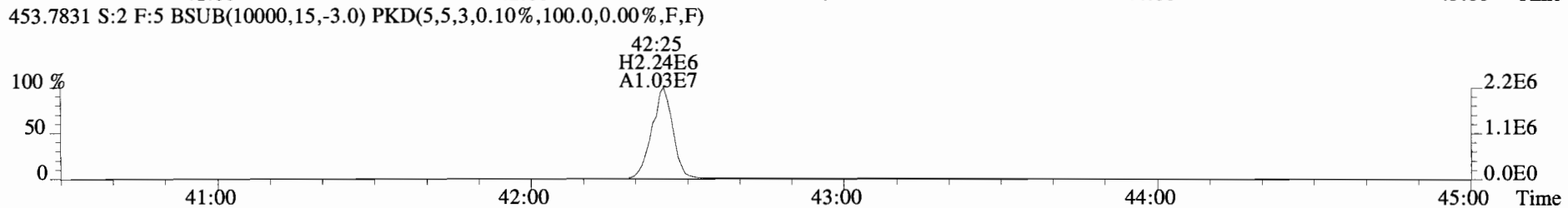
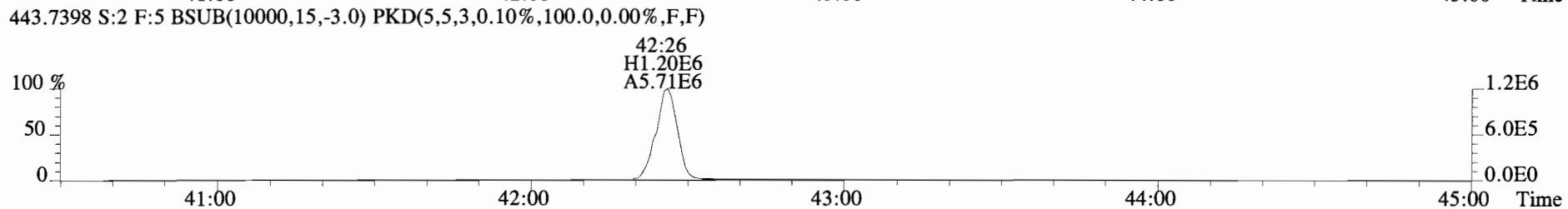
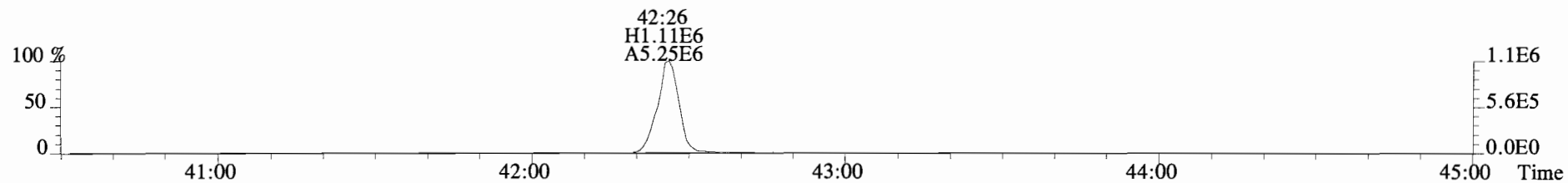
419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140922D1 #1-389 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-7 Text:B4I0065-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)



| Name | Resp | RA | RRF | RT | RRT | Conc | Q | noise | Fac | DL | Name | Conc | EMPC | Qual | noise | DL |
|---------------------|----------|--------|------|-------------|-------|--------|---|-------|-----|-------|---------------------|--------|--------|------|-------|------|
| 2,3,7,8-TCDD | * | * n | 1.03 | NotF η | * | * | | 498 | 2.5 | 1.13 | Total Tetra-Dioxins | * | * | | 498 | 1.13 |
| 1,2,3,7,8-PeCDD | * | * n | 0.84 | NotF η | * | * | | 690 | 2.5 | 1.27 | Total Penta-Dioxins | * | * | | 1500 | 2.76 |
| 1,2,3,4,7,8-HxCDD | * | * n | 1.05 | NotF η | * | * | | 411 | 2.5 | 1.68 | Total Hexa-Dioxins | * | * | | 689 | 2.84 |
| 1,2,3,6,7,8-HxCDD | * | * n | 1.04 | NotF η | * | * | | 411 | 2.5 | 1.74 | Total Hepta-Dioxins | 2.15 | 5.02 | | * | * |
| 1,2,3,7,8,9-HxCDD | * | * n | 0.90 | NotF η | * | * | | 411 | 2.5 | 1.67 | Total Tetra-Furans | * | * | | 627 | 1.20 |
| 1,2,3,4,6,7,8-HpCDD | 9.08e+03 | 1.10 y | 1.01 | 38:50 | 1.001 | 2.1476 | * | 2.5 | * | * | Total Penta-Furans | 0.0000 | 0.0000 | | 721 | 1.61 |
| OCDD | 4.78e+04 | 0.92 y | 1.04 | 42:11 | 1.000 | 10.927 | * | 2.5 | * | * | Total Hexa-Furans | * | * | | 885 | 1.65 |
| | | | | | | | | | | | Total Hepta-Furans | * | * | | 516 | 1.12 |
| 2,3,7,8-TCDF | * | * n | 0.91 | NotF η | * | * | | 627 | 2.5 | 1.20 | | | | | | |
| 1,2,3,7,8-PeCDF | * | * n | 0.97 | NotF η | * | * | | 390 | 2.5 | 0.894 | | | | | | |
| 2,3,4,7,8-PeCDF | * | * n | 0.94 | NotF η | * | * | | 390 | 2.5 | 0.842 | | | | | | |
| 1,2,3,4,7,8-HxCDF | * | * n | 1.32 | NotF η | * | * | | 885 | 2.5 | 1.52 | | | | | | |
| 1,2,3,6,7,8-HxCDF | * | * n | 1.18 | NotF η | * | * | | 885 | 2.5 | 1.44 | | | | | | |
| 2,3,4,6,7,8-HxCDF | * | * n | 1.23 | NotF η | * | * | | 417 | 2.5 | 0.768 | | | | | | |
| 1,2,3,7,8,9-HxCDF | * | * n | 1.13 | NotF η | * | * | | 417 | 2.5 | 0.988 | | | | | | |
| 1,2,3,4,6,7,8-HpCDF | * | * n | 1.57 | NotF η | * | * | | 516 | 2.5 | 1.07 | | | | | | |
| 1,2,3,4,7,8,9-HpCDF | * | * n | 1.50 | NotF η | * | * | | 175 | 2.5 | 0.401 | | | | | | |
| OCDF | * | * n | 1.05 | NotF η | * | * | | 1360 | 1.0 | 2.14 | | | | | | |

| | | | | | | | | | | | Rec | Qual |
|----|-------------------------|----------|--------|------|-------|-------|--------|--|--|--|------|------|
| IS | 13C-2,3,7,8-TCDD | 1.36e+07 | 0.80 y | 1.06 | 27:10 | 1.021 | 1367.5 | | | | 68.9 | |
| IS | 13C-1,2,3,7,8-PeCDD | 1.48e+07 | 0.63 y | 1.08 | 31:37 | 1.188 | 1461.5 | | | | 73.7 | |
| IS | 13C-1,2,3,4,7,8-HxCDD | 9.74e+06 | 1.26 y | 0.74 | 34:58 | 1.014 | 1340.8 | | | | 67.6 | |
| IS | 13C-1,2,3,6,7,8-HxCDD | 9.55e+06 | 1.27 y | 0.75 | 35:05 | 1.017 | 1301.2 | | | | 65.6 | |
| IS | 13C-1,2,3,7,8,9-HxCDD | 1.16e+07 | 1.24 y | 0.89 | 35:23 | 1.026 | 1332.4 | | | | 67.2 | |
| IS | 13C-1,2,3,4,6,7,8-HpCDD | 8.31e+06 | 1.07 y | 0.70 | 38:49 | 1.126 | 1208.2 | | | | 60.9 | |
| IS | 13C-OCDD | 1.67e+07 | 0.89 y | 0.59 | 42:10 | 1.223 | 2888.1 | | | | 72.8 | |
| IS | 13C-2,3,7,8-TCDF | 1.90e+07 | 0.76 y | 0.97 | 26:24 | 0.992 | 1432.8 | | | | 72.2 | |
| IS | 13C-1,2,3,7,8-PeCDF | 1.77e+07 | 1.62 y | 0.99 | 30:27 | 1.145 | 1305.7 | | | | 65.8 | |
| IS | 13C-2,3,4,7,8-PeCDF | 1.79e+07 | 1.60 y | 1.01 | 31:20 | 1.178 | 1295.2 | | | | 65.3 | |
| IS | 13C-1,2,3,4,7,8-HxCDF | 1.25e+07 | 0.52 y | 0.94 | 34:03 | 0.988 | 1356.9 | | | | 68.4 | |
| IS | 13C-1,2,3,6,7,8-HxCDF | 1.42e+07 | 0.53 y | 1.23 | 34:11 | 0.991 | 1179.5 | | | | 59.5 | |
| IS | 13C-2,3,4,6,7,8-HxCDF | 1.25e+07 | 0.51 y | 1.03 | 34:48 | 1.009 | 1238.0 | | | | 62.4 | |
| IS | 13C-1,2,3,7,8,9-HxCDF | 1.10e+07 | 0.50 y | 0.89 | 35:46 | 1.037 | 1273.5 | | | | 64.2 | |
| IS | 13C-1,2,3,4,6,7,8-HpCDF | 8.86e+06 | 0.44 y | 0.71 | 37:38 | 1.092 | 1281.9 | | | | 64.6 | |
| IS | 13C-1,2,3,4,7,8,9-HpCDF | 7.99e+06 | 0.45 y | 0.64 | 39:22 | 1.142 | 1270.3 | | | | 64.0 | |
| IS | 13C-OCDF | 1.88e+07 | 0.90 y | 0.76 | 42:24 | 1.230 | 2539.4 | | | | 64.0 | |

| | | | | | | | | | | | | |
|-------|-----------------------|----------|--------|------|-------|-------|--------|--|--|--|------|--|
| C/Up | 37Cl-2,3,7,8-TCDD | 7.37e+06 | | 1.04 | 27:11 | 1.022 | 755.67 | | | | 95.2 | |
| RS/RT | 13C-1,2,3,4-TCDD | 1.85e+07 | 0.80 y | 1.00 | 26:36 | * | 1983.9 | | | | | |
| RS | 13C-1,2,3,4-TCDF | 2.72e+07 | 0.76 y | 1.00 | 25:12 | * | 1983.9 | | | | | |
| RS/RT | 13C-1,2,3,4,6,9-HxCDF | 1.94e+07 | 0.52 y | 1.00 | 34:29 | * | 1983.9 | | | | | |

Integrations
 by
 Analyst: MJ
 Date: 9/29/14

Reviewed
 by
 Analyst: AL
 Date: 9/23/14

Totals class: HpCDD EMPC

Entry #: 25

Run: 16 File: 140922D1 S: 11 I: 1 F: 4

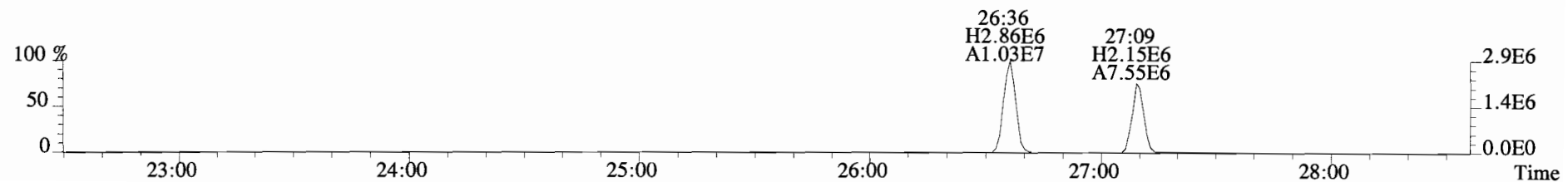
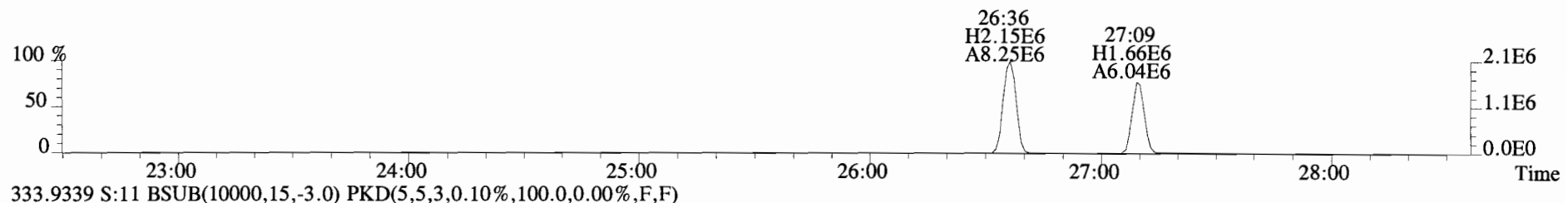
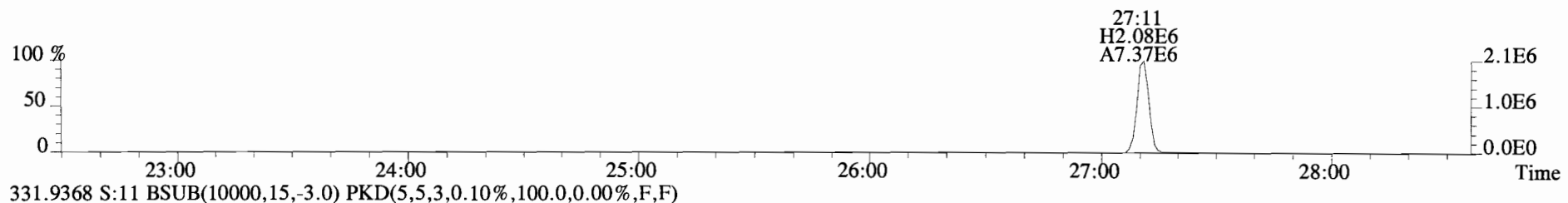
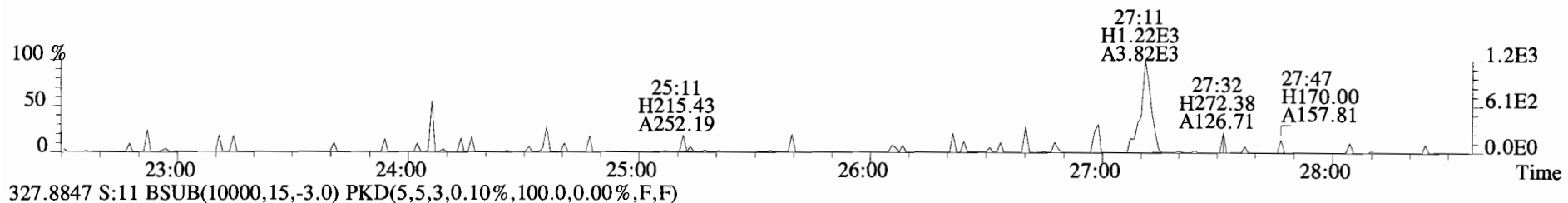
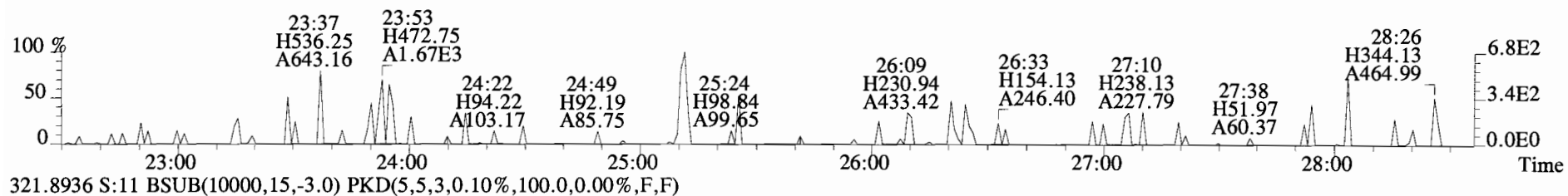
Acquired: 22-SEP-14 21:36:44 Processed: 23-SEP-14 08:24:16

Total Concentration: 5.0171

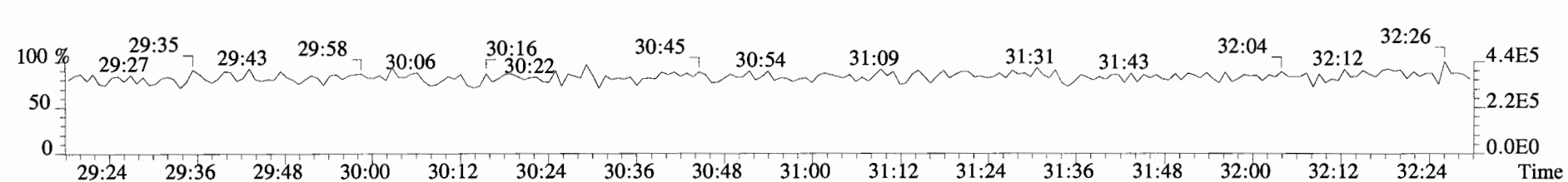
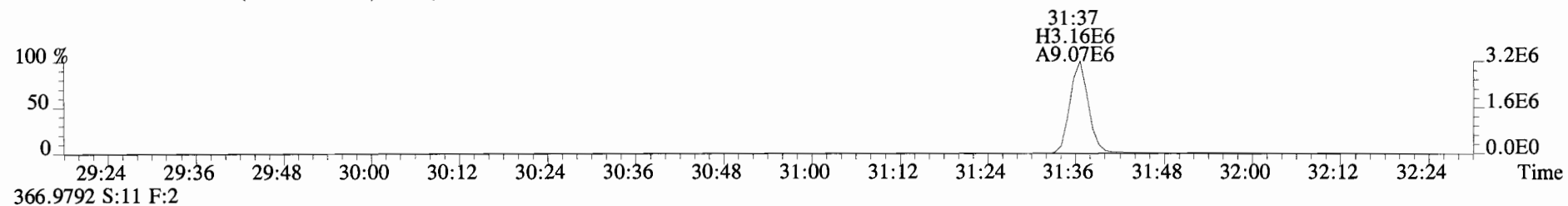
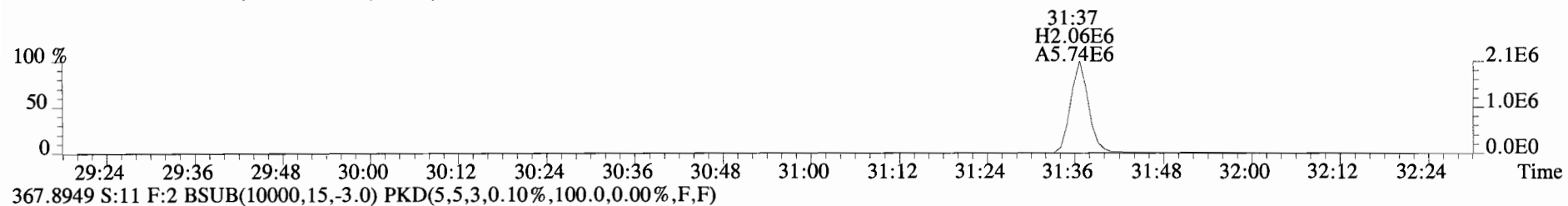
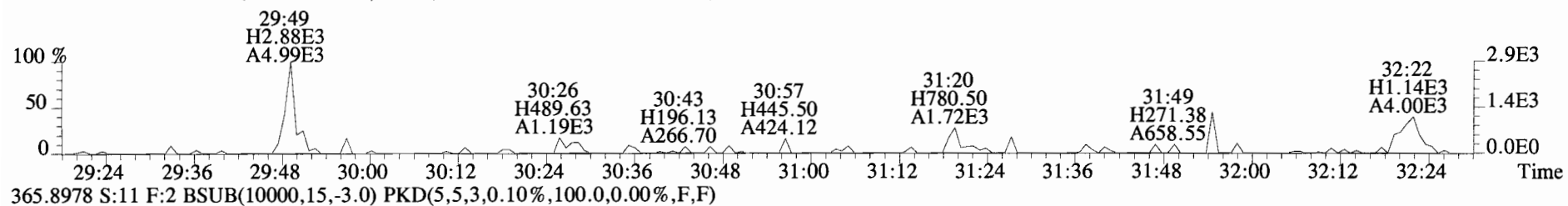
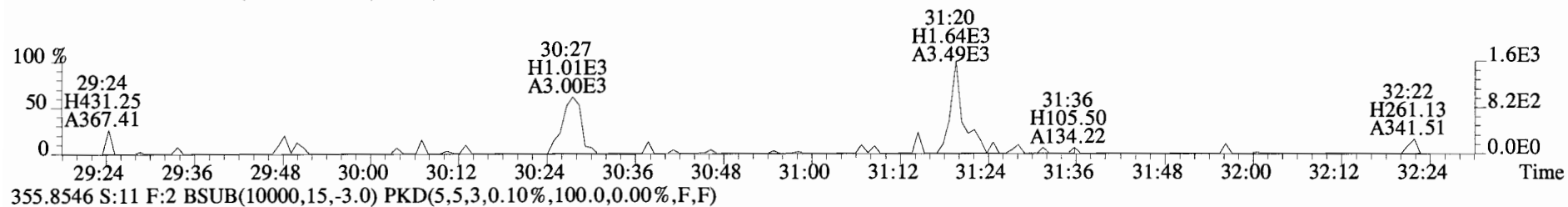
Unnamed Concentration: 2.870

| RT | m1 Resp | m2 Resp | RA | | Resp Concentration | Name |
|-------|-----------|-----------|------|---|--------------------|--------|
| 38:00 | 6.184e+03 | 7.809e+03 | 0.79 | n | 1.213e+04 | 2.8696 |
| 38:50 | 4.759e+03 | 4.320e+03 | 1.10 | y | 9.079e+03 | 2.1476 |

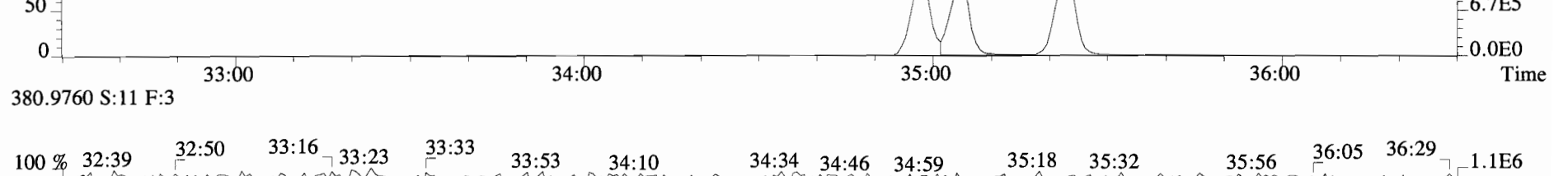
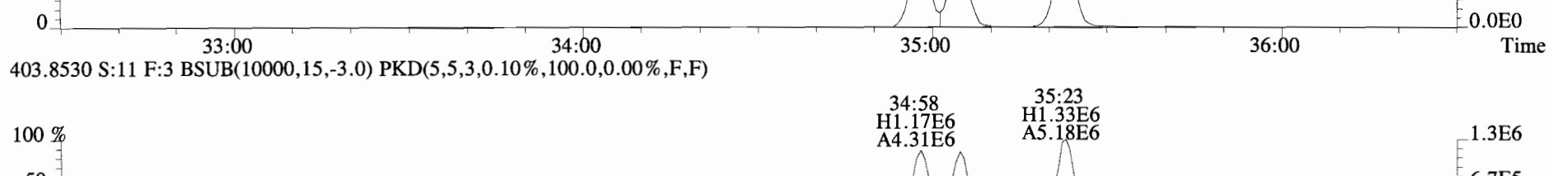
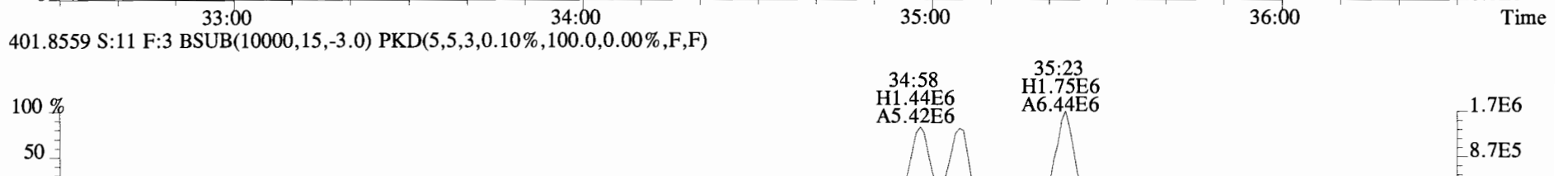
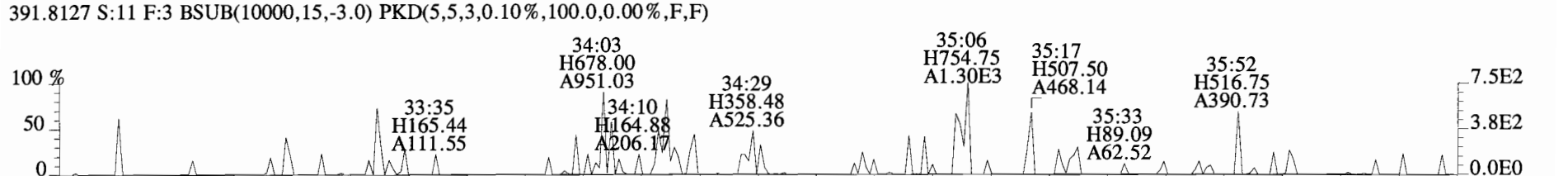
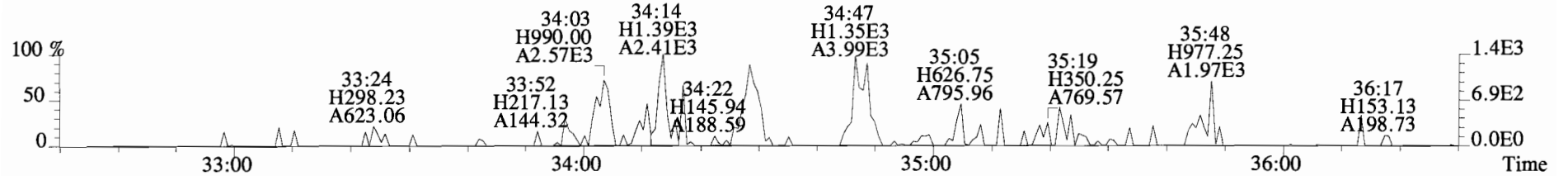
File:140922D1 #1-551 Acq:22-SEP-2014 21:36:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400659-01 PS-TS-01-20140909-W 1.0081 Exp:OCDD_DB5
319.8965 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



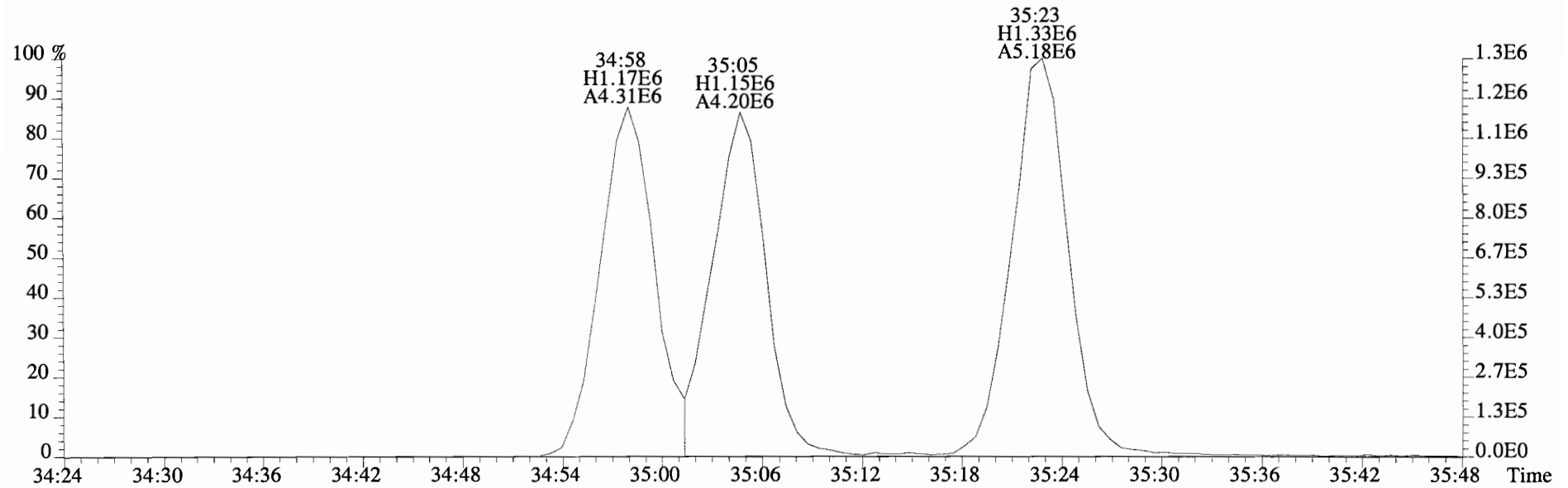
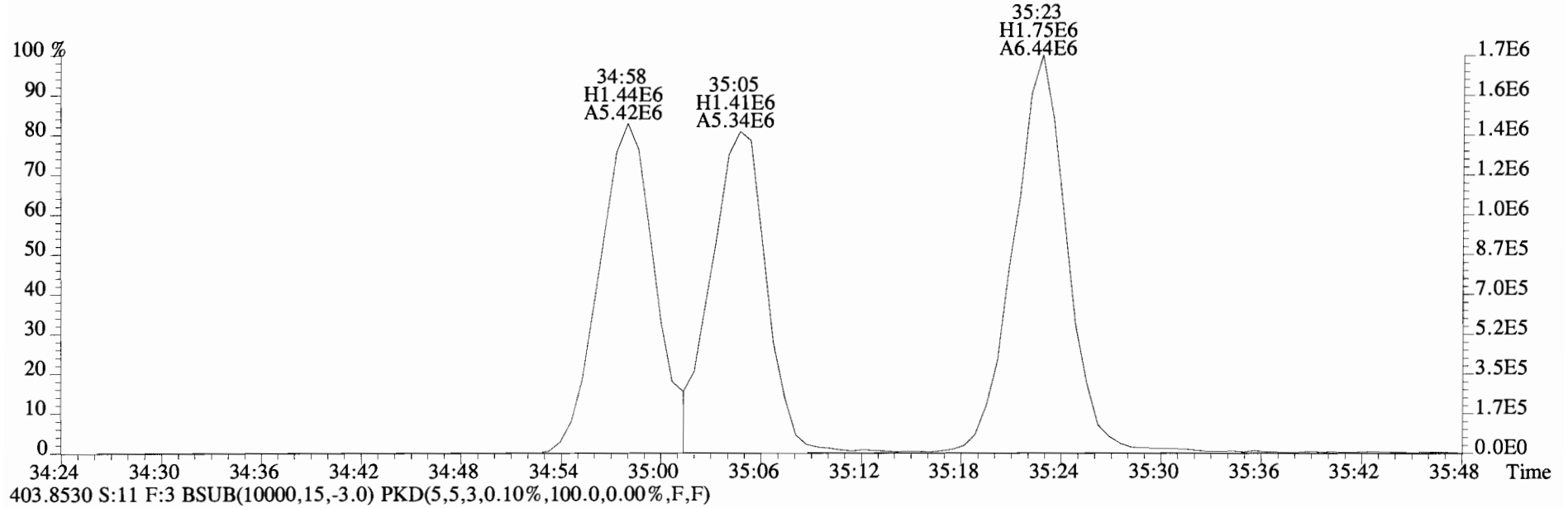
File:140922D1 #1-257 Acq:22-SEP-2014 21:36:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400659-01 PS-TS-01-20140909-W 1.0081 Exp:OCDD_DB5
353.8576 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



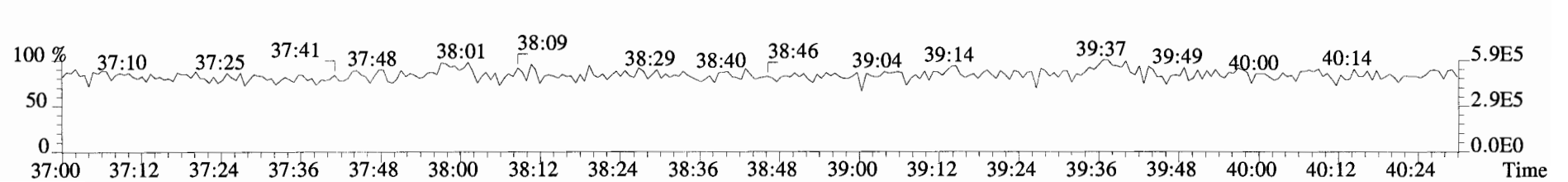
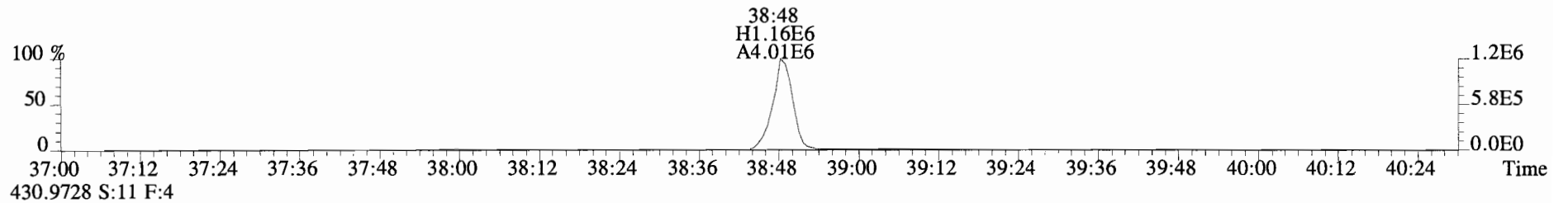
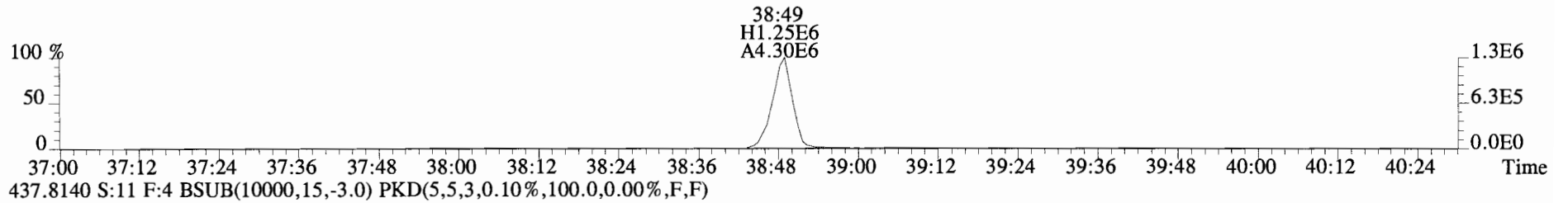
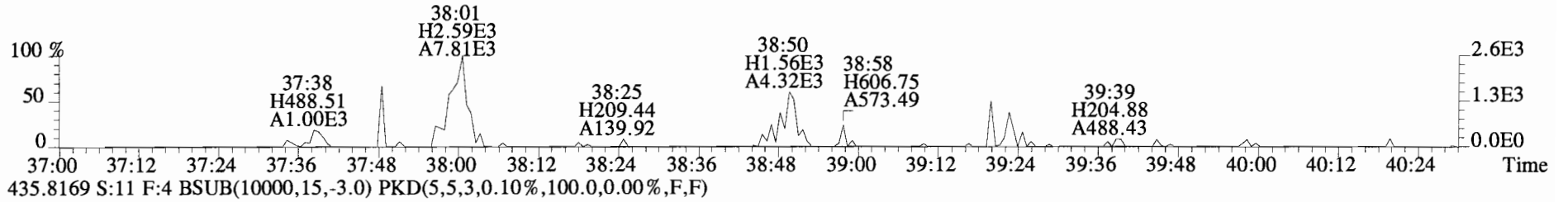
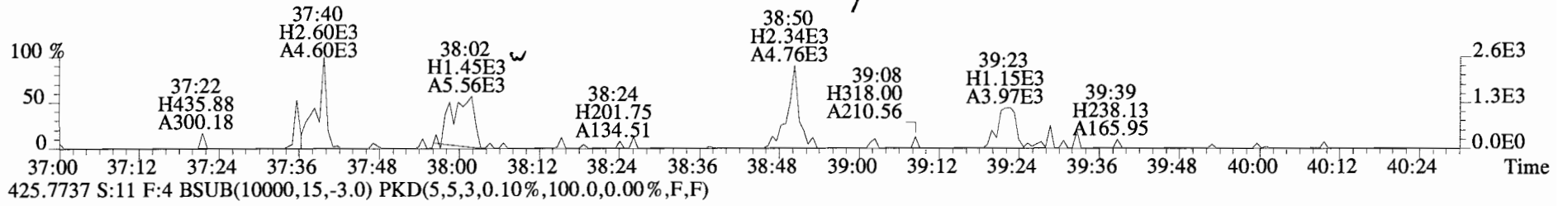
File:140922D1 #1-385 Acq:22-SEP-2014 21:36:44 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400659-01 PS-TS-01-20140909-W 1.0081 Exp:OCDD_DB5
 389.8156 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



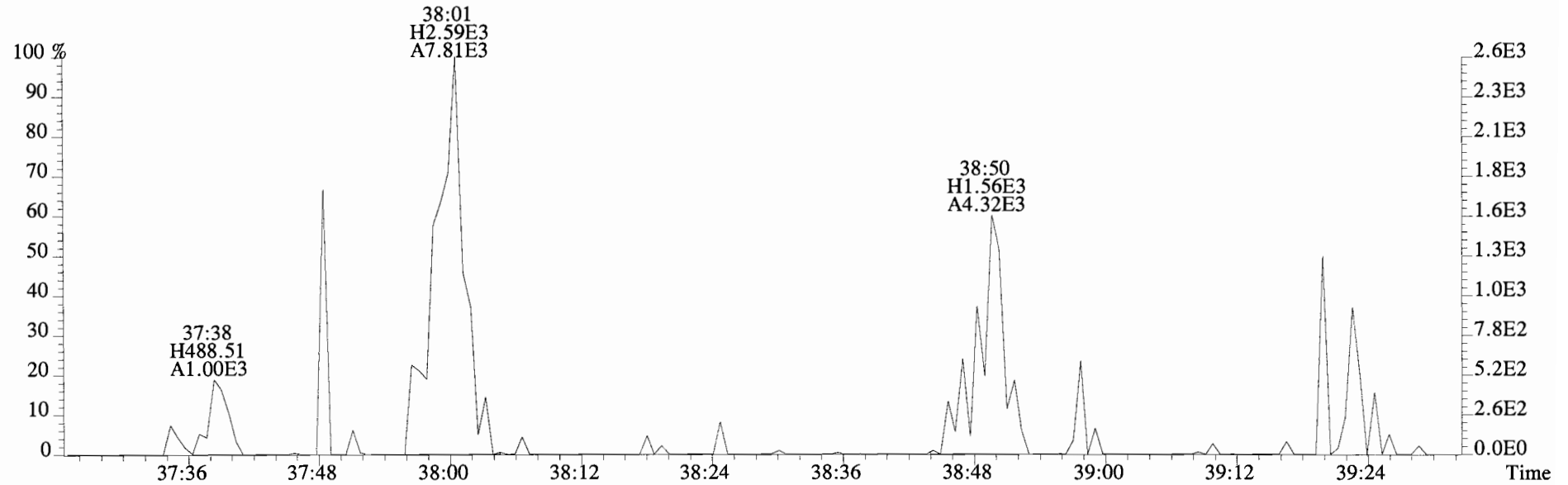
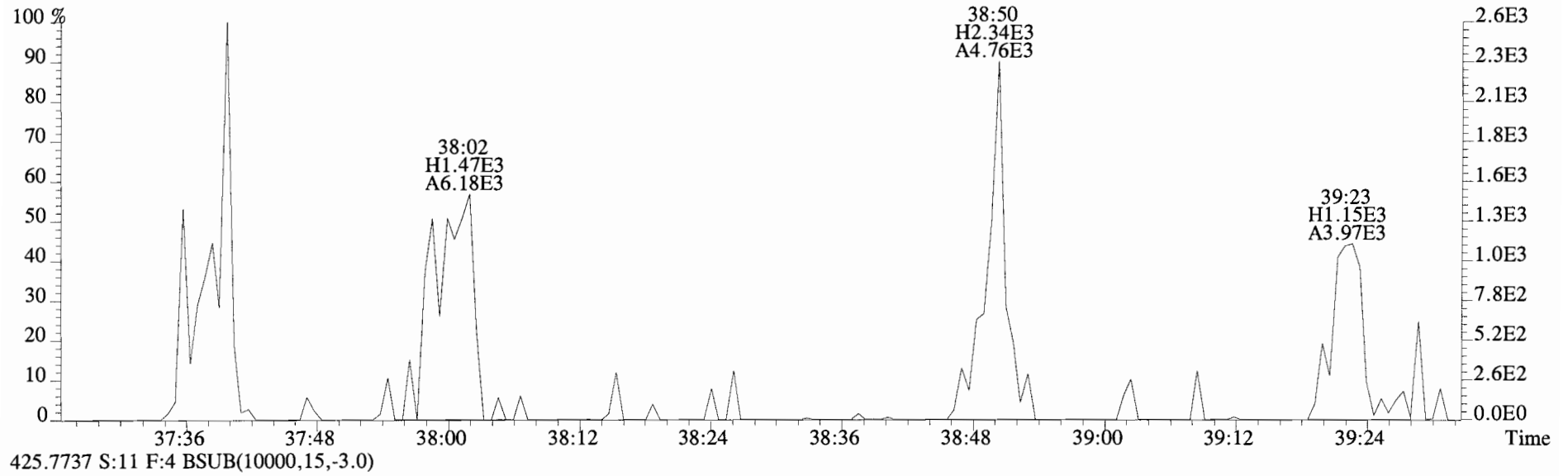
File:140922D1 #1-385 Acq:22-SEP-2014 21:36:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400659-01 PS-TS-01-20140909-W 1.0081 Exp:OCDD_DB5
401.8559 S:11 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



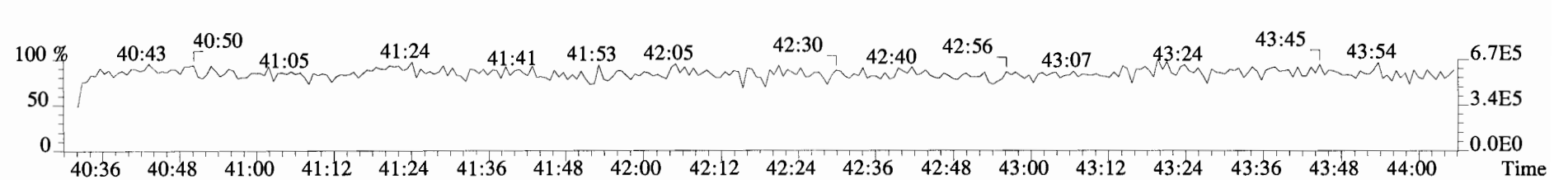
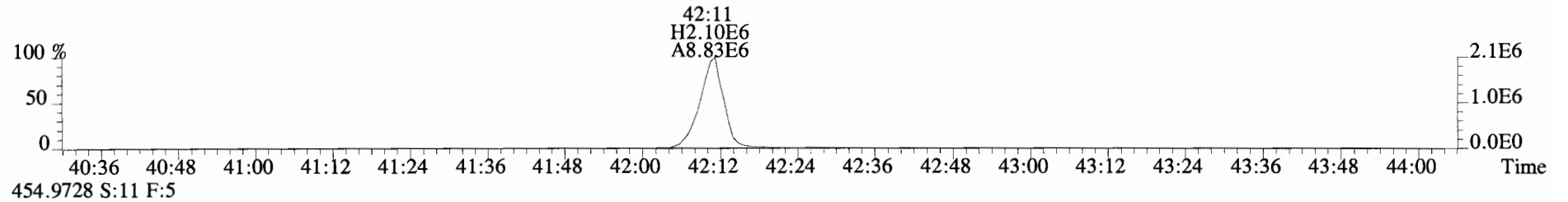
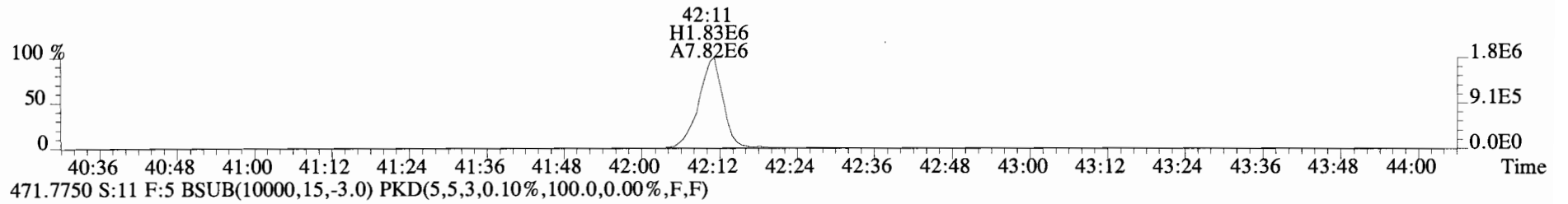
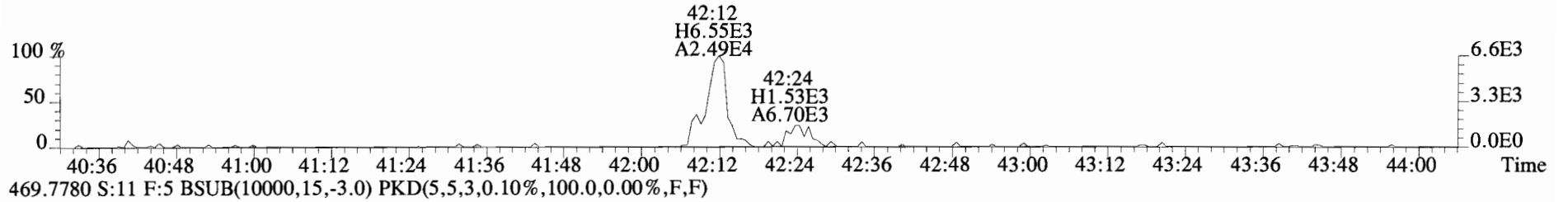
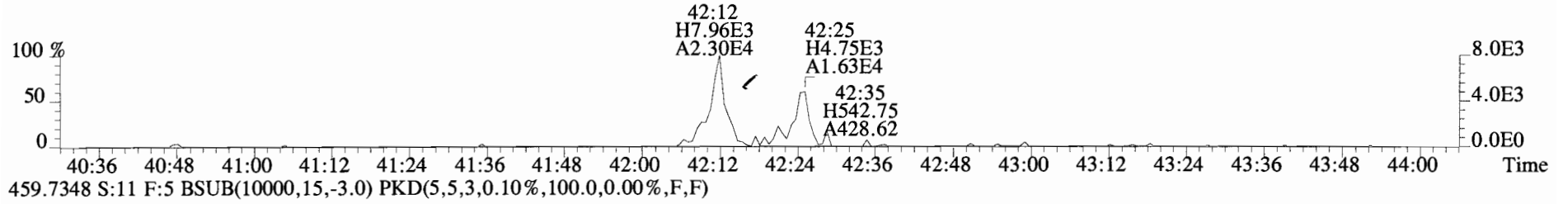
File:140922D1 #1-326 Acq:22-SEP-2014 21:36:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400659-01 PS-TS-01-20140909-W 1.0081 Exp:OCDD_DB5
423.7767 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



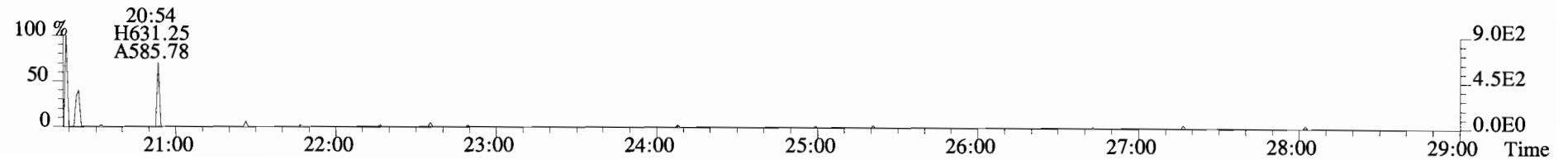
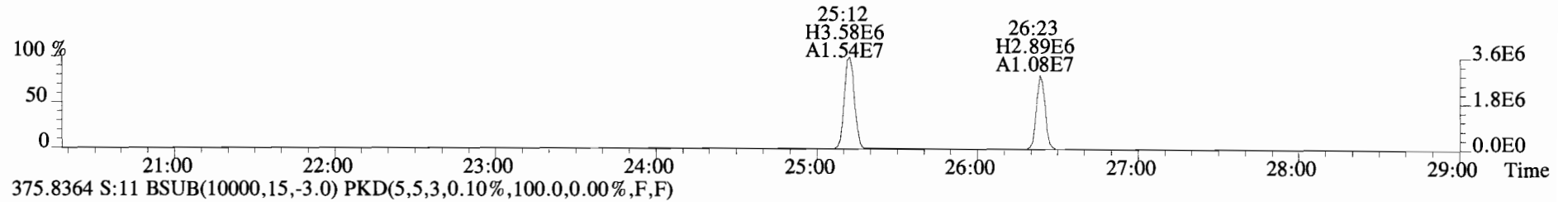
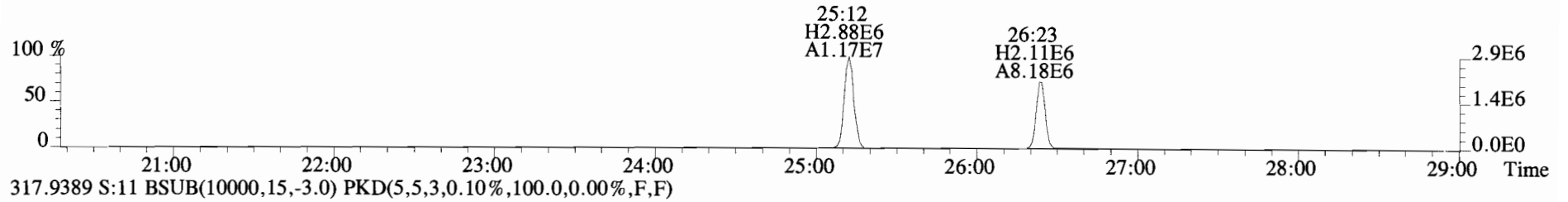
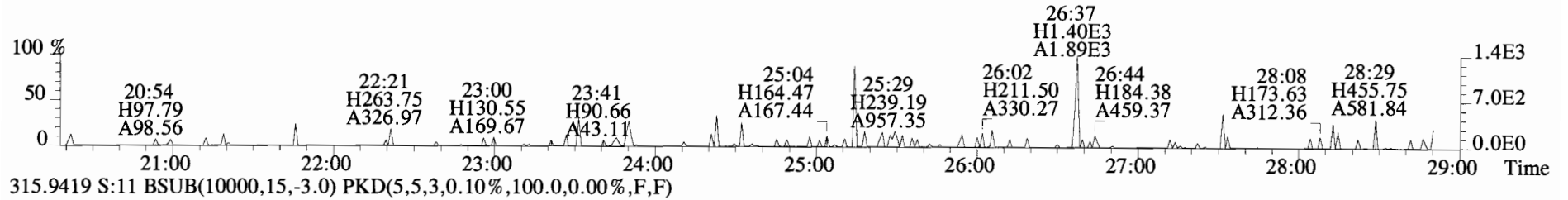
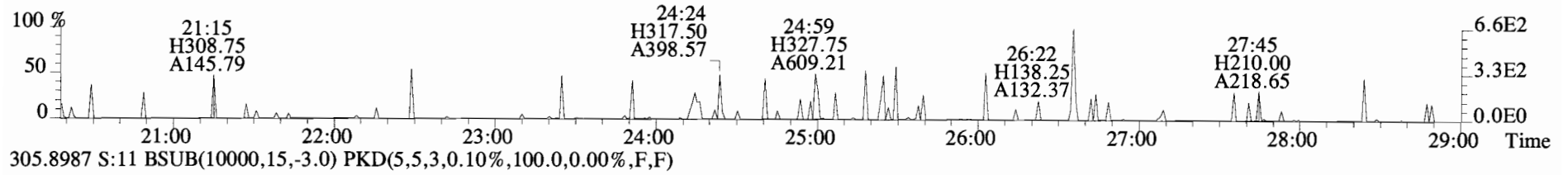
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Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400659-01 PS-TS-01-20140909-W 1.0081 Exp:OCDD_DB5
423.7767 S:11 F:4 BSUB(10000,15,-3.0)



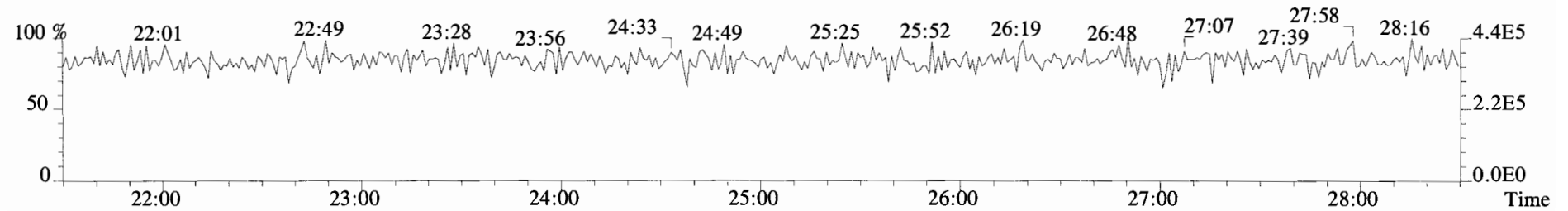
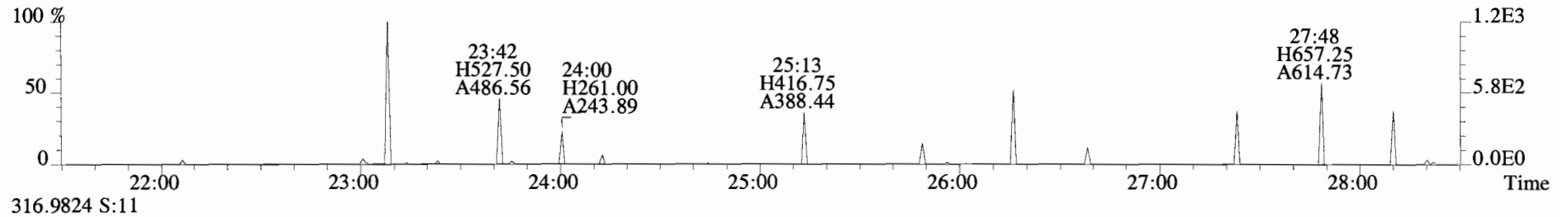
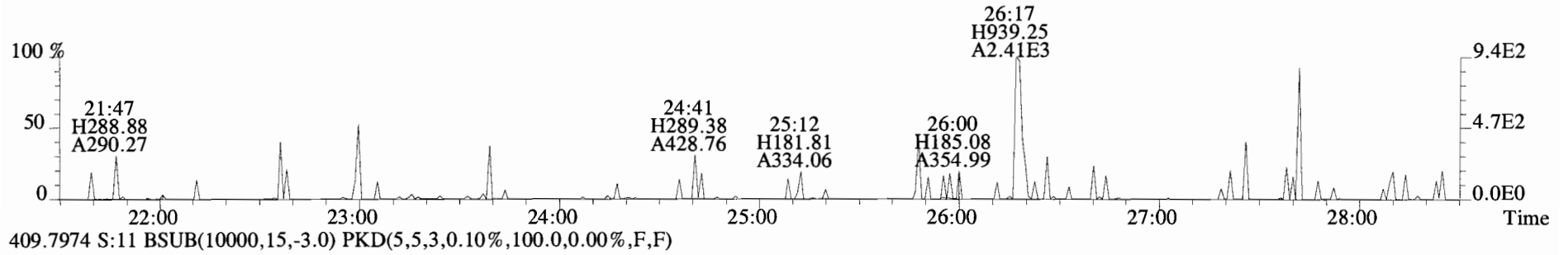
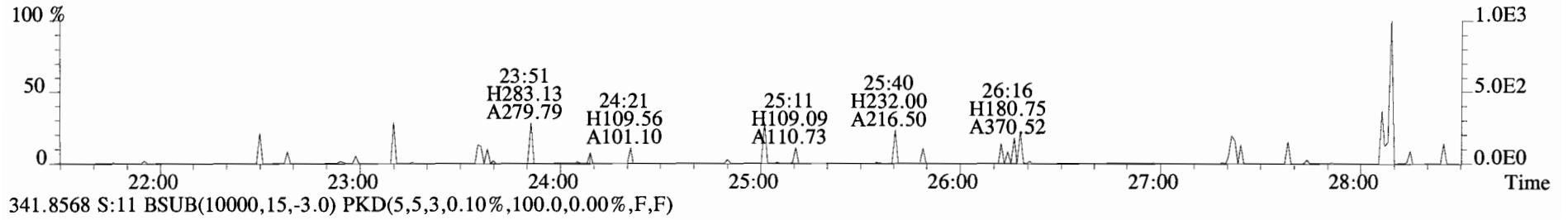
File:140922D1 #1-388 Acq:22-SEP-2014 21:36:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400659-01 PS-TS-01-20140909-W 1.0081 Exp:OCDD_DB5
457.7377 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



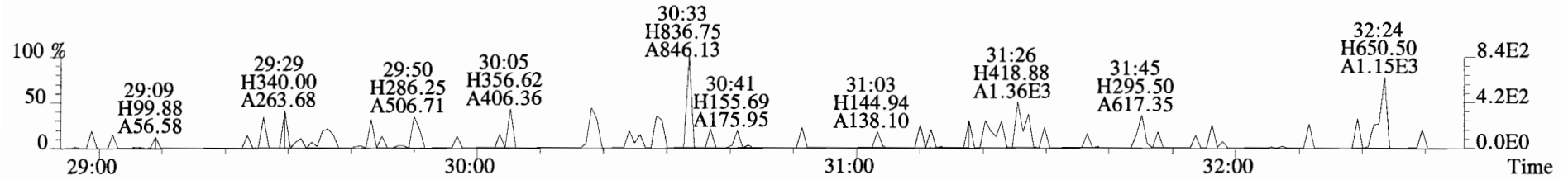
File:140922D1 #1-551 Acq:22-SEP-2014 21:36:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400659-01 PS-TS-01-20140909-W 1.0081 Exp:OCDD_DB5
303.9016 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



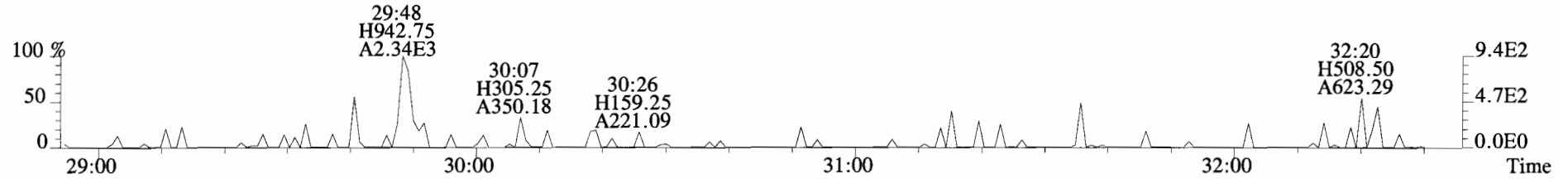
File:140922D1 #1-551 Acq:22-SEP-2014 21:36:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400659-01 PS-TS-01-20140909-W 1.0081 Exp:OCDD_DB5
339.8597 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



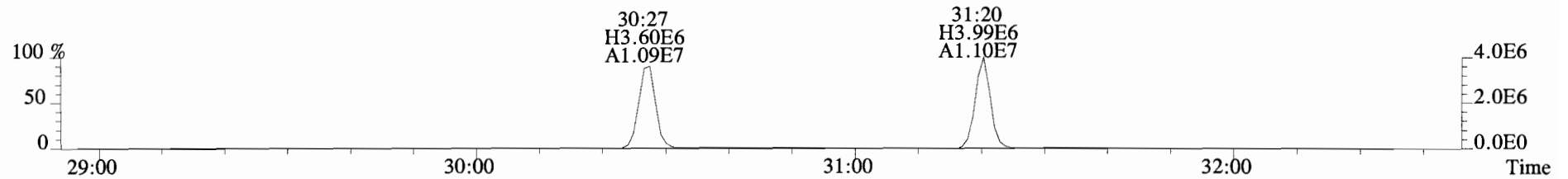
File:140922D1 #1-257 Acq:22-SEP-2014 21:36:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400659-01 PS-TS-01-20140909-W 1.0081 Exp:OCDD_DB5
339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



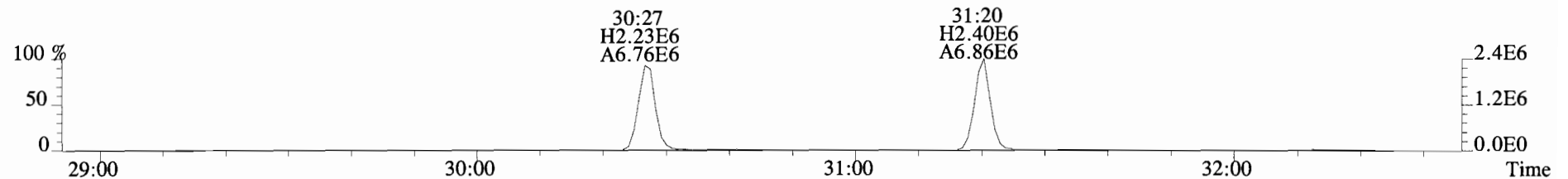
341.8568 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



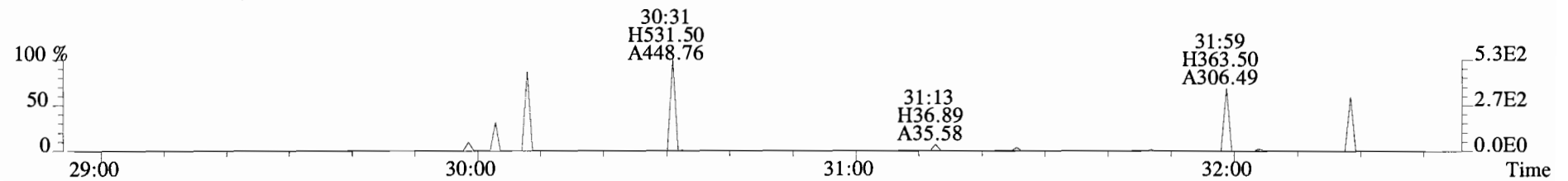
351.9000 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



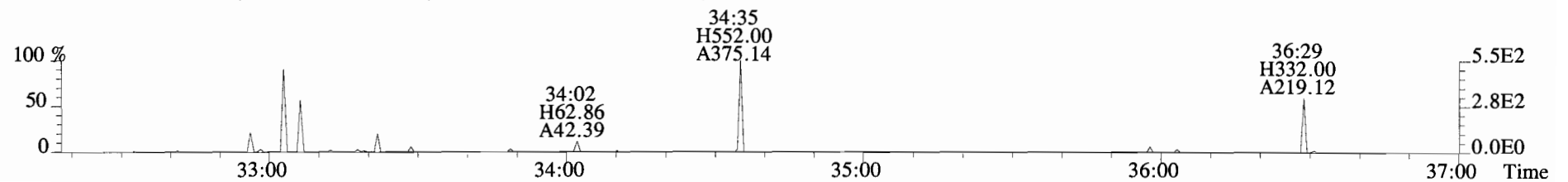
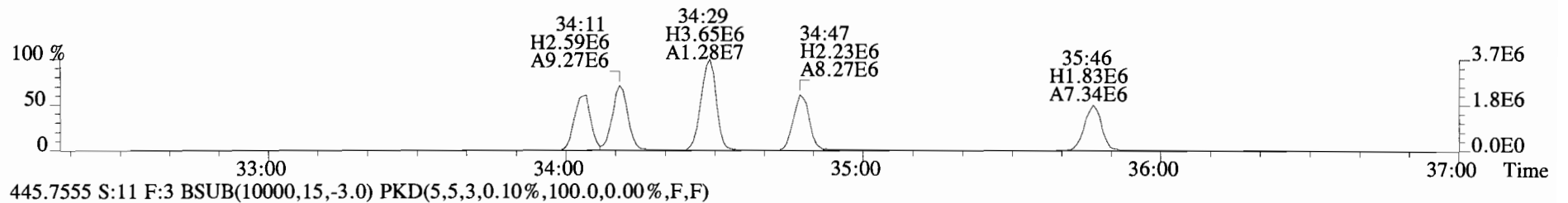
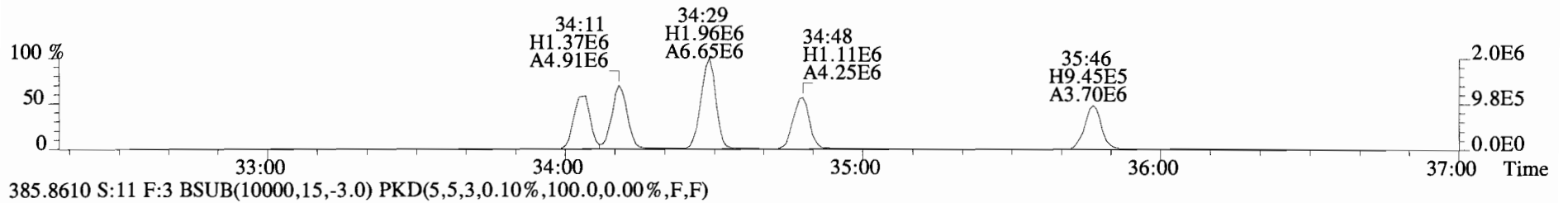
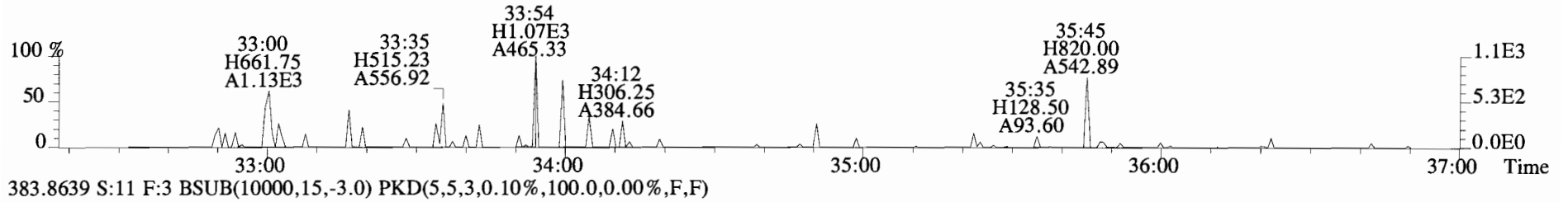
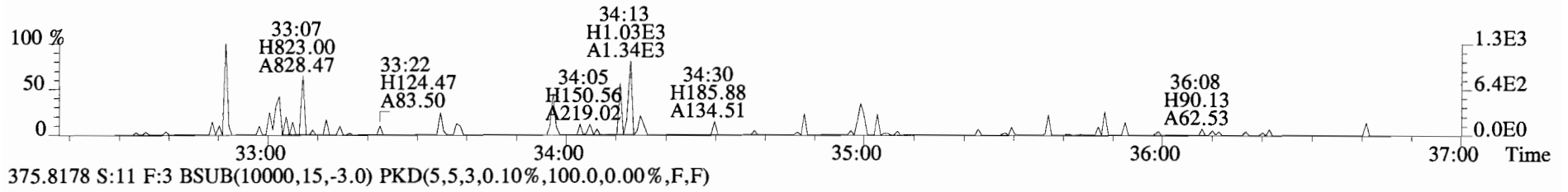
353.8970 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



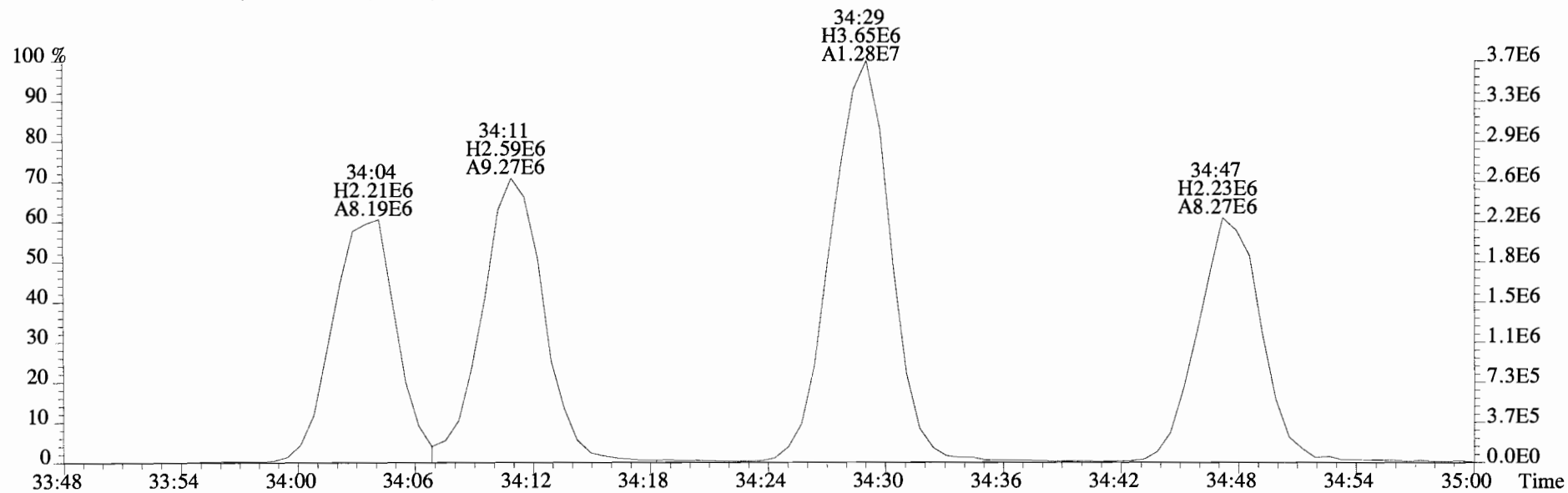
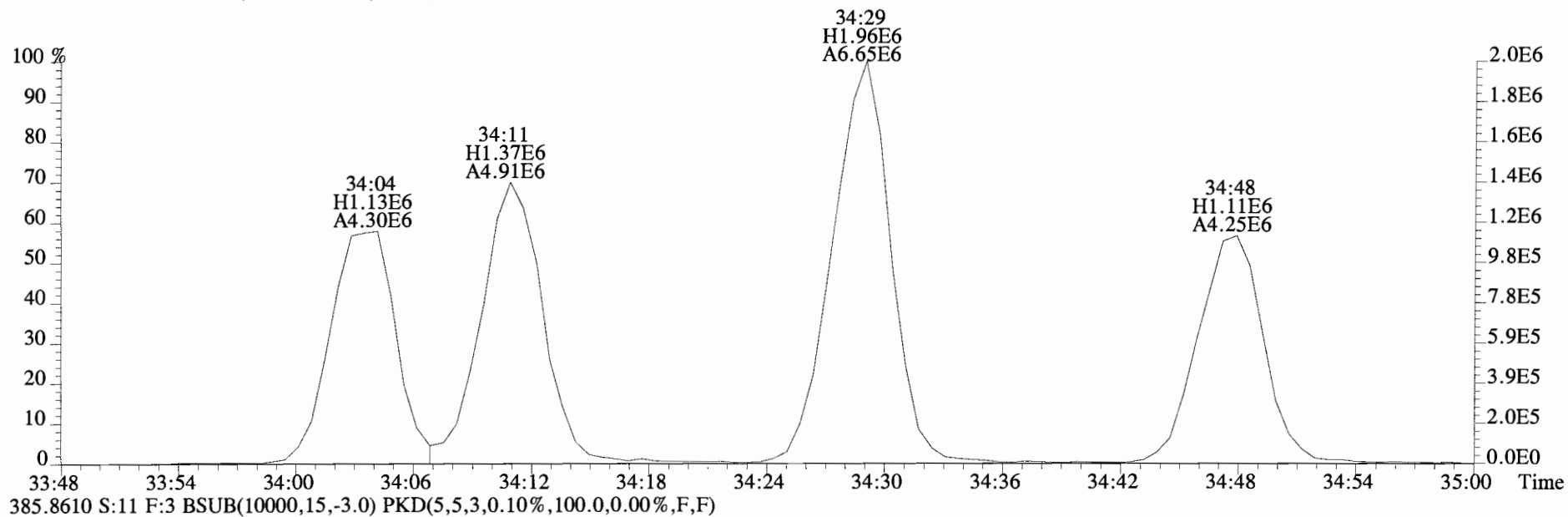
409.7974 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



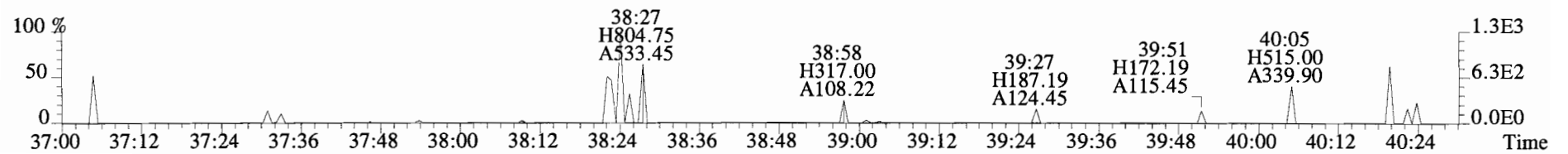
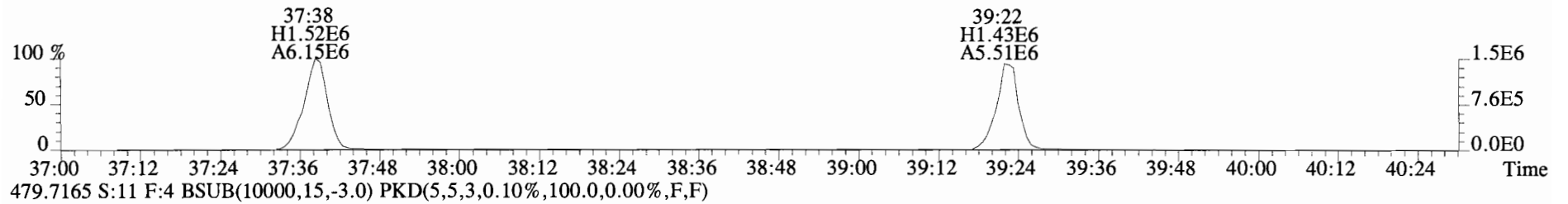
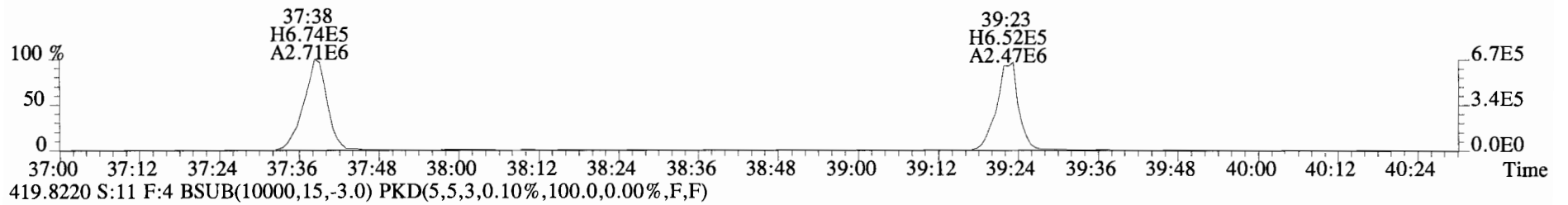
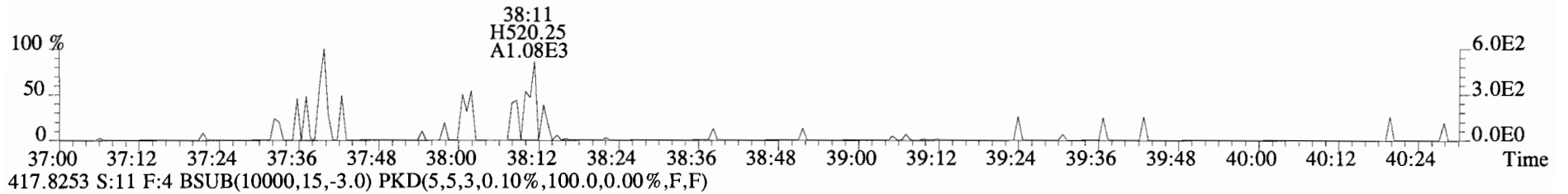
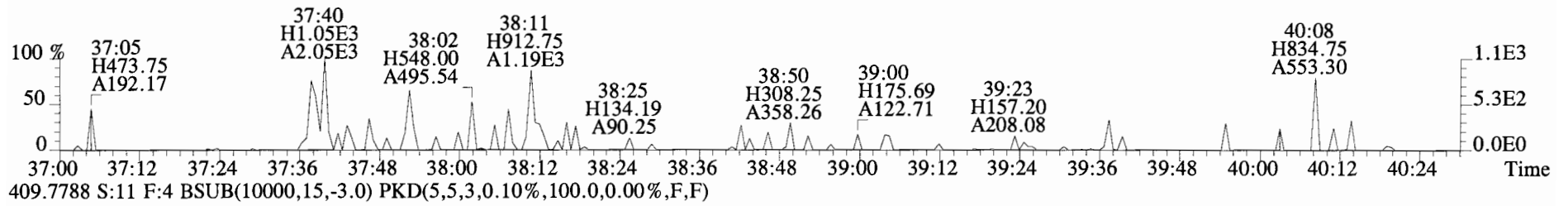
File:140922D1 #1-385 Acq:22-SEP-2014 21:36:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400659-01 PS-TS-01-20140909-W 1.0081 Exp:OCDD_DB5
373.8207 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



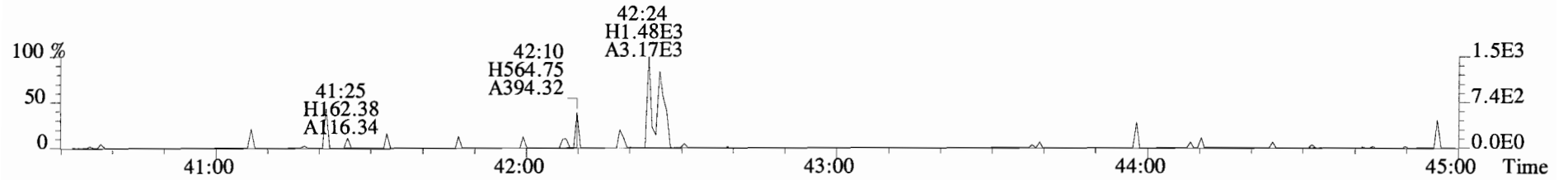
File:140922D1 #1-385 Acq:22-SEP-2014 21:36:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400659-01 PS-TS-01-20140909-W 1.0081 Exp:OCDD_DB5
383.8639 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



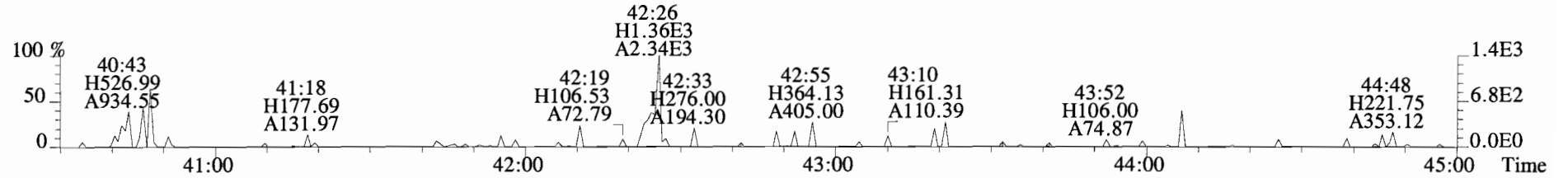
File:140922D1 #1-326 Acq:22-SEP-2014 21:36:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400659-01 PS-TS-01-20140909-W 1.0081 Exp:OCDD_DB5
407.7818 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



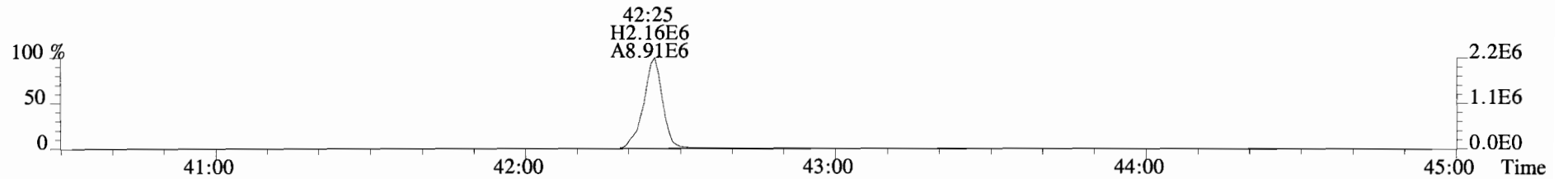
File:140922D1 #1-388 Acq:22-SEP-2014 21:36:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400659-01 PS-TS-01-20140909-W 1.0081 Exp:OCDD_DB5
441.7428 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



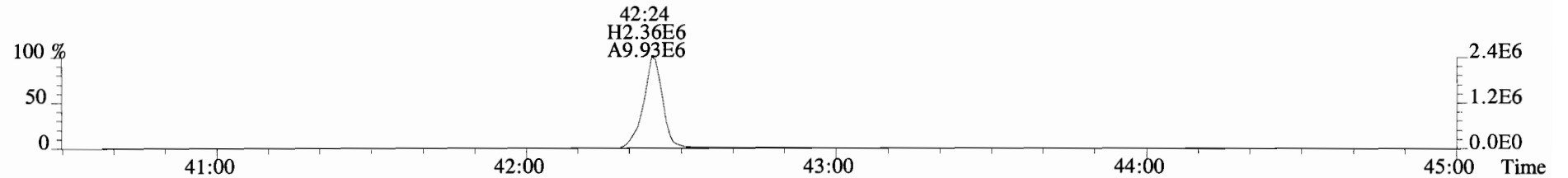
443.7398 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



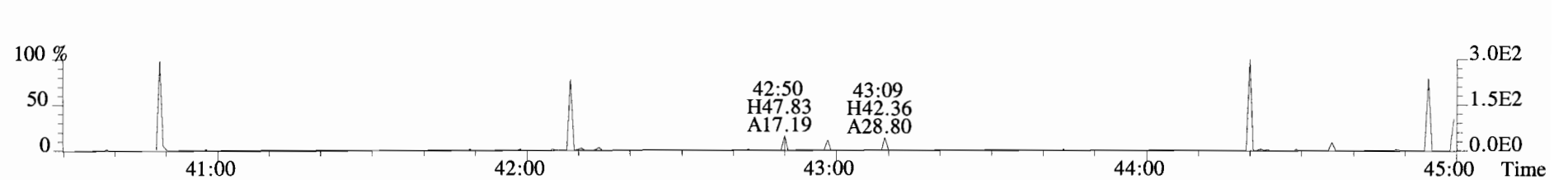
453.7831 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:11 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 | * | * n | 1.03 | NotF η | * | * | | 799 | 2.5 | 1.58 |
| 1,2,3,7,8-PeCDD | 1.31e+04 | 0.91 n | 0.84 | 31:37 | 1.000 | 1.8300 | | * | 2.5 | * |
| 1,2,3,4,7,8-HxCDD | 2.07e+04 | 1.41 y | 1.05 | 34:56 | 0.999 | 3.6343 | | * | 2.5 | * |
| 1,2,3,6,7,8-HxCDD | 3.47e+04 | 1.33 y | 1.04 | 35:05 | 1.000 | 6.0435 | | * | 2.5 | * |
| 1,2,3,7,8,9-HxCDD | 5.81e+04 | 1.13 y | 0.90 | 35:23 | 1.000 | 10.069 | | * | 2.5 | * |
| 1,2,3,4,6,7,8-HpCDD | 1.20e+06 | 1.02 y | 1.01 | 38:49 | 1.000 | 261.27 | | * | 2.5 | * |
| OCDD | 1.70e+07 | 0.88 y | 1.04 | 42:11 | 1.000 | 3452.5 | | * | 2.5 | * |
| 2,3,7,8-TCDF | * | * n | 0.91 | NotF η | * | * | | 561 | 2.5 | 0.977 |
| 1,2,3,7,8-PeCDF | * | * n | 0.97 | NotF η | * | * | | 725 | 2.5 | 1.39 |
| 2,3,4,7,8-PeCDF | * | * n | 0.94 | NotF η | * | * | | 725 | 2.5 | 1.42 |
| 1,2,3,4,7,8-HxCDF | 1.50e+04 | 1.02 n | 1.32 | 34:03 | 1.000 | 1.5583 | | * | 2.5 | * |
| 1,2,3,6,7,8-HxCDF | 2.04e+04 | 1.41 y | 1.18 | 34:12 | 1.001 | 2.2601 | | * | 2.5 | * |
| 2,3,4,6,7,8-HxCDF | 2.04e+04 | 1.02 n | 1.23 | 34:47 | 1.000 | 2.3714 | | * | 2.5 | * |
| 1,2,3,7,8,9-HxCDF | * | * n | 1.13 | NotF η | * | * | | 536 | 2.5 | 1.19 |
| 1,2,3,4,6,7,8-HpCDF | 2.87e+05 | 1.06 y | 1.57 | 37:38 | 1.000 | 38.442 | | * | 2.5 | * |
| 1,2,3,4,7,8,9-HpCDF | * | * n | 1.50 | NotF η | * | * | | 1770 | 1.0 | 1.41 |
| OCDF | 6.30e+05 | 0.92 y | 1.05 | 42:25 | 1.000 | 114.69 | | * | 2.5 | * |

| Name | Conc | EMPC | Qual | noise | DL |
|---------------------|--------|--------|------|-------|------|
| Total Tetra-Dioxins | * | * | | 937 | 1.85 |
| Total Penta-Dioxins | * | 1.83 | | * | * |
| Total Hexa-Dioxins | 60.2 | 60.2 | | * | * |
| Total Hepta-Dioxins | 600 | 600 | | * | * |
| Total Tetra-Furans | 1.17 | 1.17 | | * | * |
| Total Penta-Furans | 9.5987 | 9.5987 | | * | * |
| Total Hexa-Furans | 33.1 | 37.1 | | * | * |
| Total Hepta-Furans | 83.1 | 83.1 | | * | * |

| | | | | | | | | | | |
|----|-------------------------|----------|--------|------|-------|-------|--------|--|--|--|
| IS | 13C-2,3,7,8-TCDD | 1.48e+07 | 0.78 y | 1.06 | 27:09 | 1.021 | 1411.3 | | | |
| IS | 13C-1,2,3,7,8-PeCDD | 1.66e+07 | 0.64 y | 1.08 | 31:37 | 1.188 | 1548.8 | | | |
| IS | 13C-1,2,3,4,7,8-HxCDD | 1.06e+07 | 1.27 y | 0.74 | 34:57 | 1.014 | 1381.4 | | | |
| IS | 13C-1,2,3,6,7,8-HxCDD | 1.08e+07 | 1.27 y | 0.75 | 35:04 | 1.017 | 1394.0 | | | |
| IS | 13C-1,2,3,7,8,9-HxCDD | 1.26e+07 | 1.26 y | 0.89 | 35:22 | 1.026 | 1368.9 | | | |
| IS | 13C-1,2,3,4,6,7,8-HpCDD | 8.92e+06 | 1.06 y | 0.70 | 38:48 | 1.126 | 1227.5 | | | |
| IS | 13C-OCDD | 1.84e+07 | 0.90 y | 0.59 | 42:10 | 1.223 | 3025.3 | | | |
| IS | 13C-2,3,7,8-TCDF | 2.00e+07 | 0.78 y | 0.97 | 26:23 | 0.992 | 1475.8 | | | |
| IS | 13C-1,2,3,7,8-PeCDF | 1.97e+07 | 1.56 y | 0.99 | 30:27 | 1.144 | 1425.3 | | | |
| IS | 13C-2,3,4,7,8-PeCDF | 2.02e+07 | 1.58 y | 1.01 | 31:20 | 1.178 | 1434.1 | | | |
| IS | 13C-1,2,3,4,7,8-HxCDF | 1.43e+07 | 0.51 y | 0.94 | 34:03 | 0.988 | 1466.8 | | | |
| IS | 13C-1,2,3,6,7,8-HxCDF | 1.50e+07 | 0.51 y | 1.23 | 34:11 | 0.991 | 1184.3 | | | |
| IS | 13C-2,3,4,6,7,8-HxCDF | 1.37e+07 | 0.51 y | 1.03 | 34:47 | 1.009 | 1279.6 | | | |
| IS | 13C-1,2,3,7,8,9-HxCDF | 1.20e+07 | 0.52 y | 0.89 | 35:46 | 1.037 | 1307.5 | | | |
| IS | 13C-1,2,3,4,6,7,8-HpCDF | 9.29e+06 | 0.44 y | 0.71 | 37:38 | 1.092 | 1272.9 | | | |
| IS | 13C-1,2,3,4,7,8,9-HpCDF | 8.79e+06 | 0.43 y | 0.64 | 39:22 | 1.142 | 1324.7 | | | |
| IS | 13C-OCDF | 2.04e+07 | 0.89 y | 0.76 | 42:24 | 1.230 | 2598.3 | | | |

Rec Qual

| |
|------|
| 72.2 |
| 79.2 |
| 70.7 |
| 71.3 |
| 70.0 |
| 62.8 |
| 77.4 |
| 75.5 |
| 72.9 |
| 73.4 |
| 75.0 |
| 60.6 |
| 65.5 |
| 66.9 |
| 65.1 |
| 67.8 |
| 66.5 |

| | | | | | | | | | | |
|-------|-----------------------|----------|--------|------|-------|-------|--------|--|--|--|
| C/Up | 37C1-2,3,7,8-TCDD | 7.11e+06 | | 1.04 | 27:11 | 1.022 | 689.43 | | | |
| RS/RT | 13C-1,2,3,4-TCDD | 1.93e+07 | 0.81 y | 1.00 | 26:36 | * | 1954.8 | | | |
| RS | 13C-1,2,3,4-TCDF | 2.73e+07 | 0.74 y | 1.00 | 25:12 | * | 1954.8 | | | |
| RS/RT | 13C-1,2,3,4,6,9-HxCDF | 2.02e+07 | 0.52 y | 1.00 | 34:28 | * | 1954.8 | | | |

Integrations Reviewed
 by Analyst: MS by Analyst: g/r
 Date: 9/20/14 Date: 9/23/14

Totals class: PeCDD EMPC

Entry #: 21

Run: 17 File: 140922D1 S: 12 I: 1 F: 2

Acquired: 22-SEP-14 22:25:04 Processed: 23-SEP-14 08:24:19

Total Concentration: 1.8300

Unnamed Concentration: *

| RT | m1 Resp | m2 Resp | RA | | Resp Concentration | Name |
|-------|-----------|-----------|--------|-----------|--------------------|-----------------|
| 31:37 | 7.316e+03 | 8.019e+03 | 0.91 n | 1.307e+04 | 1.8300 | 1,2,3,7,8-PeCDD |

Totals class: HxCDD EMPC

Entry #: 23

Run: 17 File: 140922D1 S: 12 I: 1 F: 3
 Acquired: 22-SEP-14 22:25:04 Processed: 23-SEP-14 08:24:19

Total Concentration: 60.170

Unnamed Concentration: 40.423

| RT | m1 Resp | m2 Resp | RA | | Resp Concentration | Name |
|-------|-----------|-----------|------|---|--------------------|--------------------------|
| 33:24 | 4.090e+04 | 3.448e+04 | 1.19 | y | 7.537e+04 | 13.155 |
| 33:59 | 1.396e+04 | 1.073e+04 | 1.30 | y | 2.468e+04 | 4.3080 |
| 34:14 | 7.366e+04 | 5.790e+04 | 1.27 | y | 1.316e+05 | 22.960 |
| 34:56 | 1.208e+04 | 8.597e+03 | 1.41 | y | 2.068e+04 | 3.6343 1,2,3,4,7,8-HxCDD |
| 35:05 | 1.978e+04 | 1.488e+04 | 1.33 | y | 3.466e+04 | 6.0435 1,2,3,6,7,8-HxCDD |
| 35:23 | 3.089e+04 | 2.724e+04 | 1.13 | y | 5.813e+04 | 10.069 1,2,3,7,8,9-HxCDD |

Totals class: HpCDD EMPC

Entry #: 25

Run: 17 File: 140922D1 S: 12 I: 1 F: 4

Acquired: 22-SEP-14 22:25:04 Processed: 23-SEP-14 08:24:19

Total Concentration: 600.36

Unnamed Concentration: 339.088

| RT | m1 Resp | m2 Resp | RA | | Resp Concentration | Name |
|-------|-----------|-----------|--------|-----------|--------------------|---------------------|
| 37:59 | 7.824e+05 | 7.785e+05 | 1.00 y | 1.561e+06 | 339.09 | |
| 38:49 | 6.079e+05 | 5.948e+05 | 1.02 y | 1.203e+06 | 261.27 | 1,2,3,4,6,7,8-HpCDD |

Totals class: TCDF EMPC

Entry #: 27

Run: 17 File: 140922D1 S: 12 I: 1 F: 1

Acquired: 22-SEP-14 22:25:04 Processed: 23-SEP-14 08:24:19

Total Concentration: 1.1730

Unnamed Concentration: 1.173

| RT | m1 Resp | m2 Resp | RA | Resp Concentration | Name |
|-------|-----------|-----------|--------|--------------------|--------|
| 22:58 | 4.522e+03 | 6.394e+03 | 0.71 y | 1.092e+04 | 1.1730 |

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 17 File: 140922D1 S: 12 I: 1 F: 1
Acquired: 22-SEP-14 22:25:04 Processed: 23-SEP-14 08:24:19

Total Concentration: 6.1450 Unnamed Concentration: 6.145

| RT | m1 Resp | m2 Resp | RA | Resp Concentration | Name |
|-------|-----------|-----------|--------|--------------------|--------|
| 28:08 | 3.590e+04 | 2.401e+04 | 1.50 y | 5.991e+04 | 6.1450 |

Totals class: PeCDF EMPC

Entry #: 31

Run: 17 File: 140922D1 S: 12 I: 1 F: 2

Acquired: 22-SEP-14 22:25:04 Processed: 23-SEP-14 08:24:19

Total Concentration: 3.4536

Unnamed Concentration: 3.454

| RT | m1 Resp | m2 Resp | RA | Resp Concentration | Name |
|-------|-----------|-----------|--------|--------------------|--------|
| 29:33 | 2.137e+04 | 1.231e+04 | 1.74 y | 3.367e+04 | 3.4536 |

Totals class: HxCDF EMPC

Entry #: 33

Run: 17 File: 140922D1 S: 12 I: 1 F: 3
Acquired: 22-SEP-14 22:25:04 Processed: 23-SEP-14 08:24:19

Total Concentration: 37.068

Unnamed Concentration: 30.878

| RT | m1 Resp | m2 Resp | RA | | Resp Concentration | Name |
|-------|-----------|-----------|------|---|--------------------|-------------------|
| 32:51 | 2.881e+04 | 2.241e+04 | 1.29 | y | 5.123e+04 | 6.0189 |
| 33:01 | 8.537e+04 | 6.730e+04 | 1.27 | y | 1.527e+05 | 17.938 |
| 33:34 | 3.320e+04 | 2.571e+04 | 1.29 | y | 5.891e+04 | 6.9211 |
| 34:03 | 8.297e+03 | 8.133e+03 | 1.02 | n | 1.499e+04 | 1.5583 |
| 34:12 | 1.196e+04 | 8.462e+03 | 1.41 | y | 2.042e+04 | 1,2,3,6,7,8-HxCDF |
| 34:47 | 1.128e+04 | 1.105e+04 | 1.02 | n | 2.037e+04 | 2,3,4,6,7,8-HxCDF |

Totals class: HpCDF EMPC

Entry #: 35

Run: 17 File: 140922D1 S: 12 I: 1 F: 4

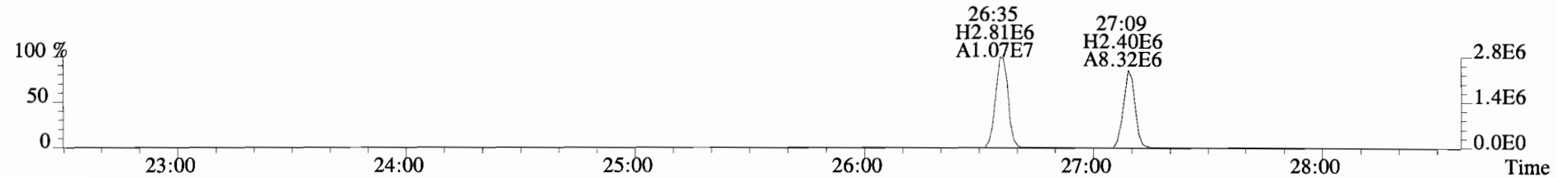
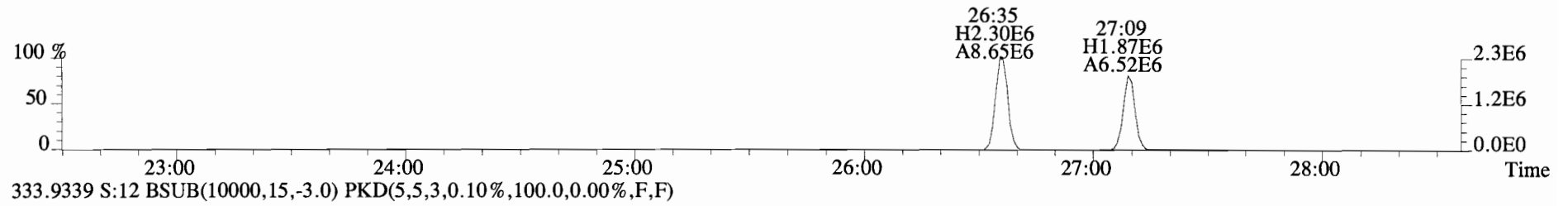
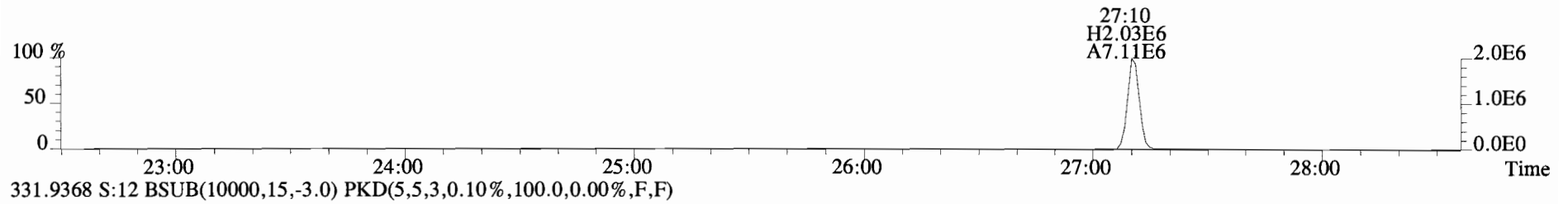
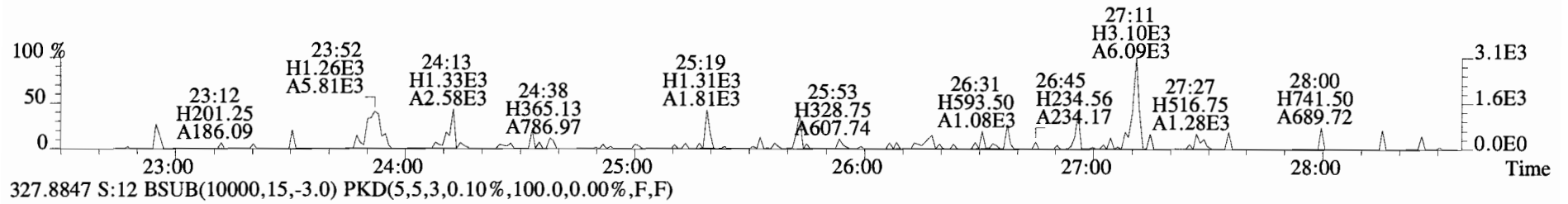
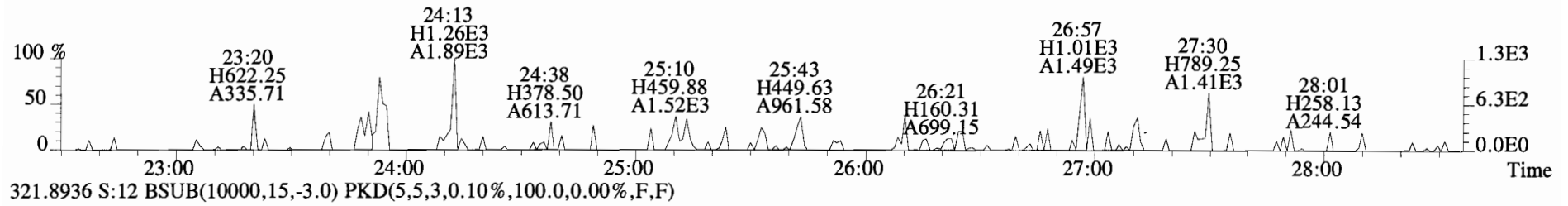
Acquired: 22-SEP-14 22:25:04 Processed: 23-SEP-14 08:24:19

Total Concentration: 83.081

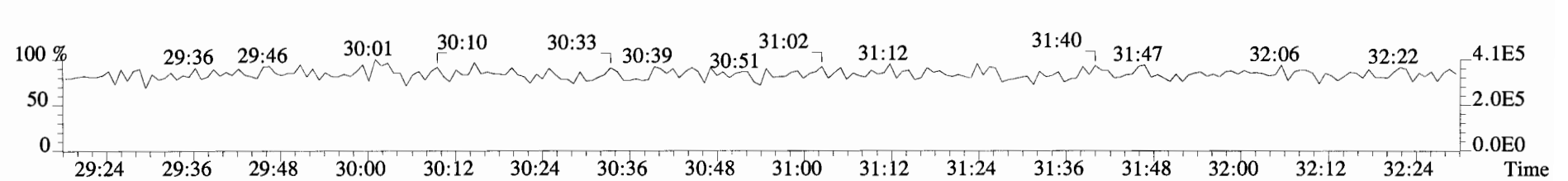
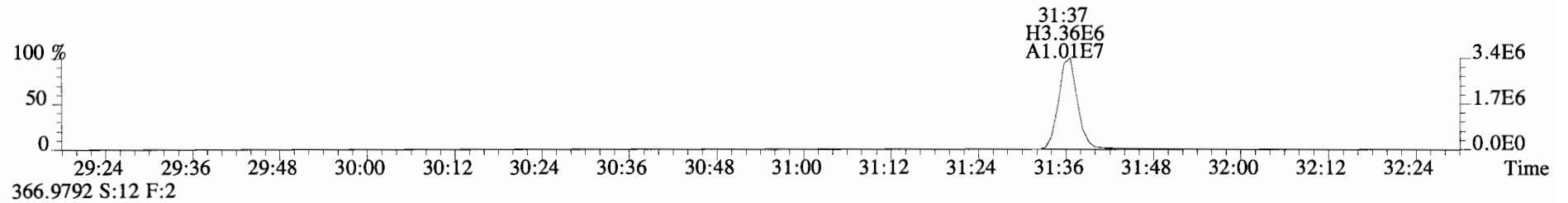
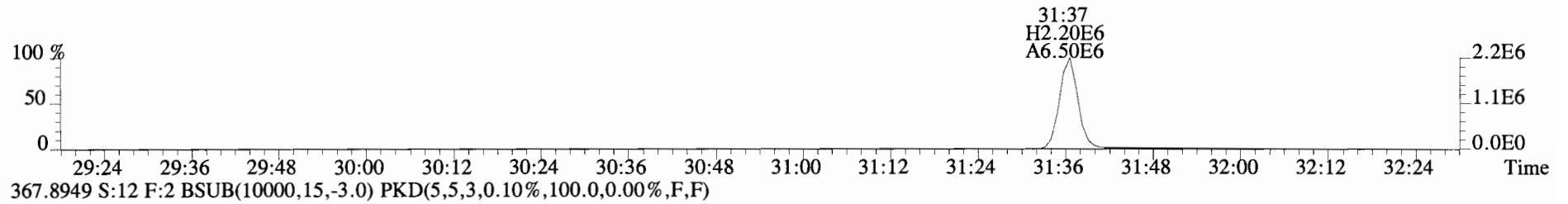
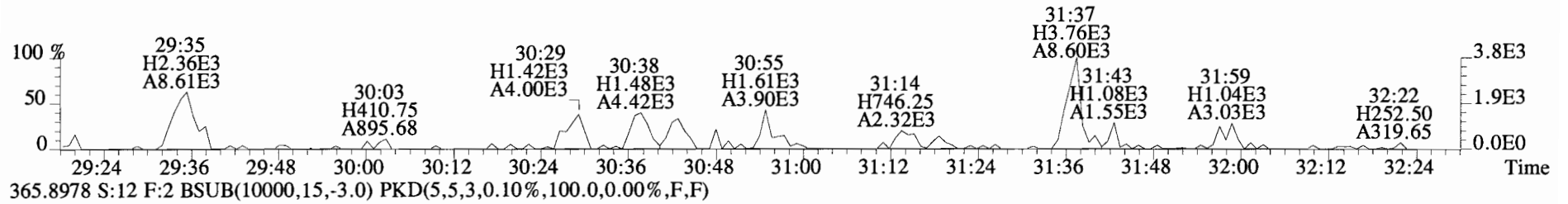
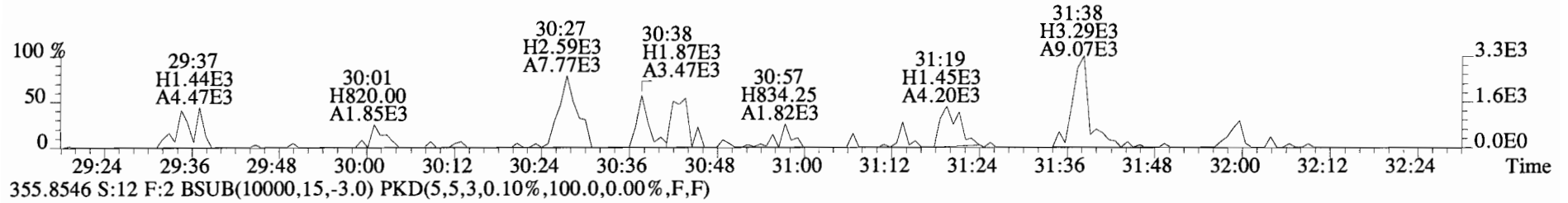
Unnamed Concentration: 44.639

| RT | m1 Resp | m2 Resp | RA | | Resp Concentration | Name | |
|-------|-----------|-----------|--------|--|--------------------|--------|---------------------|
| 37:38 | 1.476e+05 | 1.398e+05 | 1.06 y | | 2.874e+05 | 38.442 | 1,2,3,4,6,7,8-HpCDF |
| 38:11 | 1.581e+05 | 1.598e+05 | 0.99 y | | 3.179e+05 | 44.639 | |

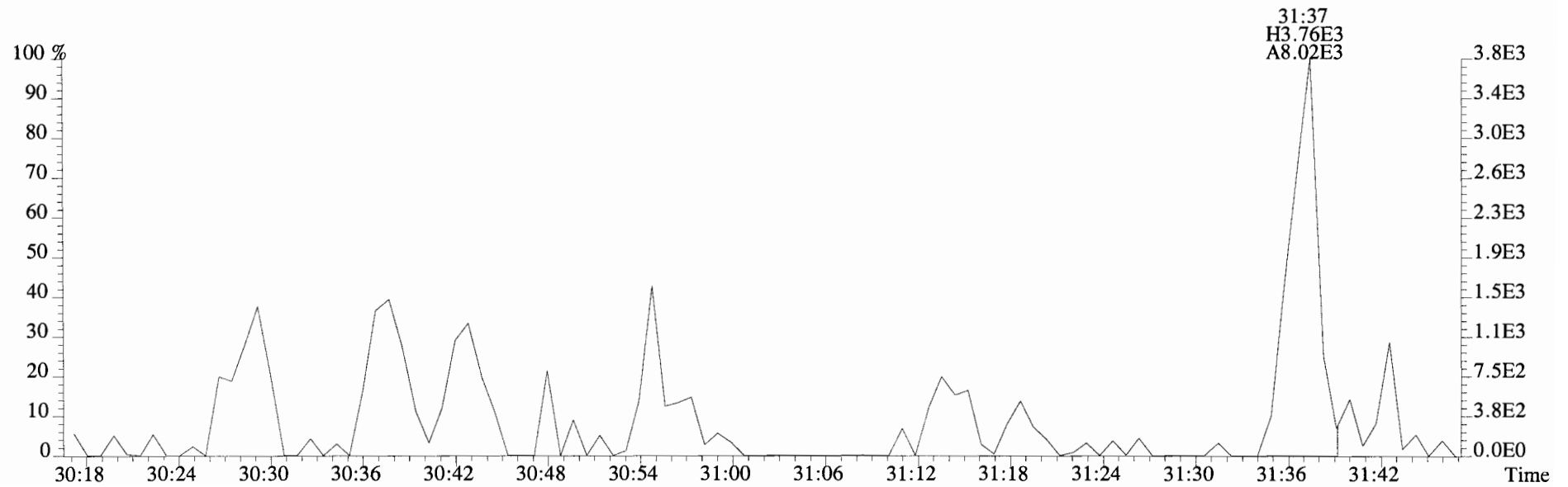
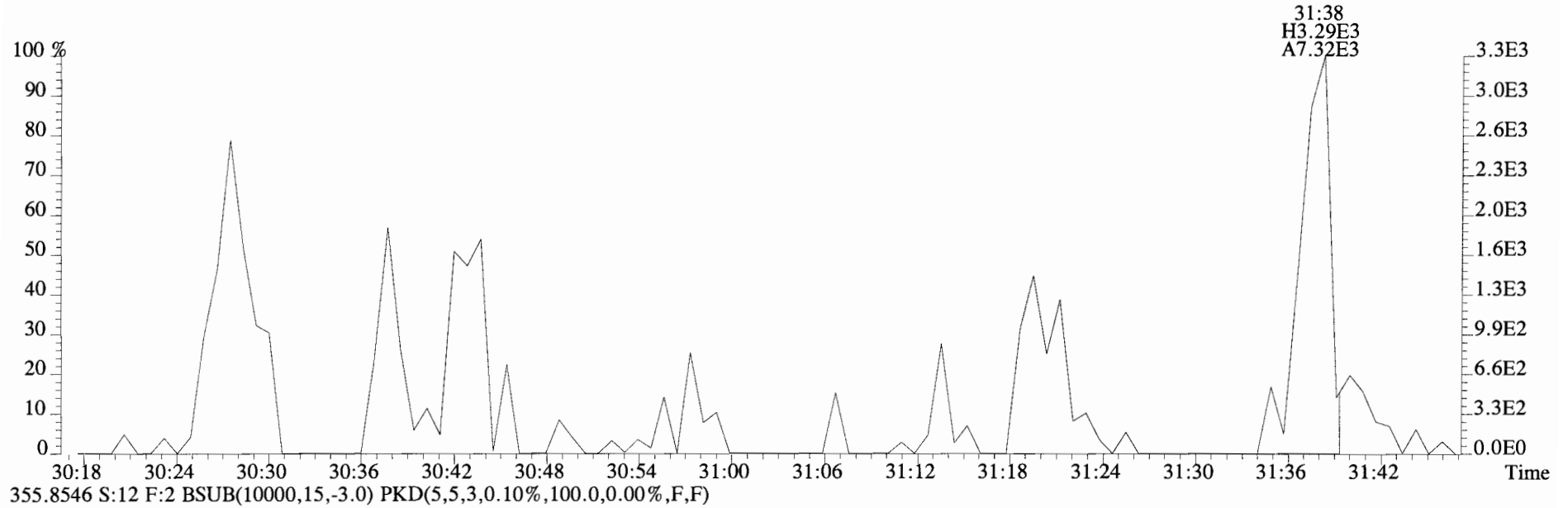
File:140922D1 #1-551 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
319.8965 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



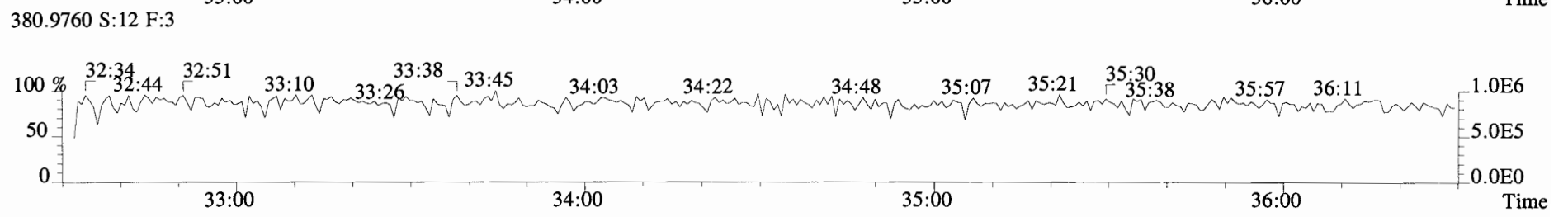
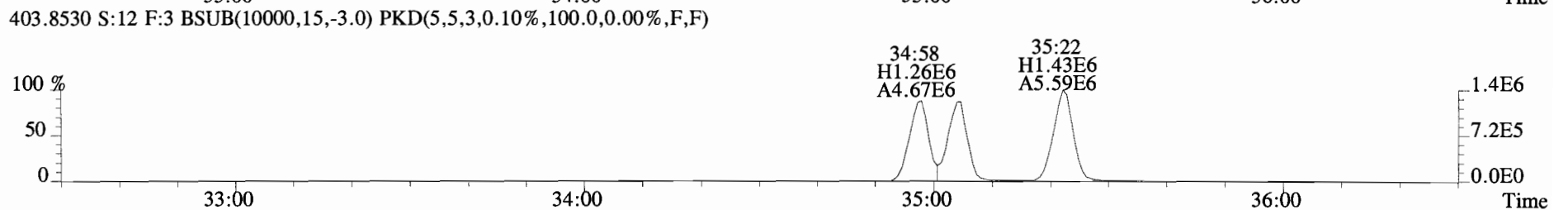
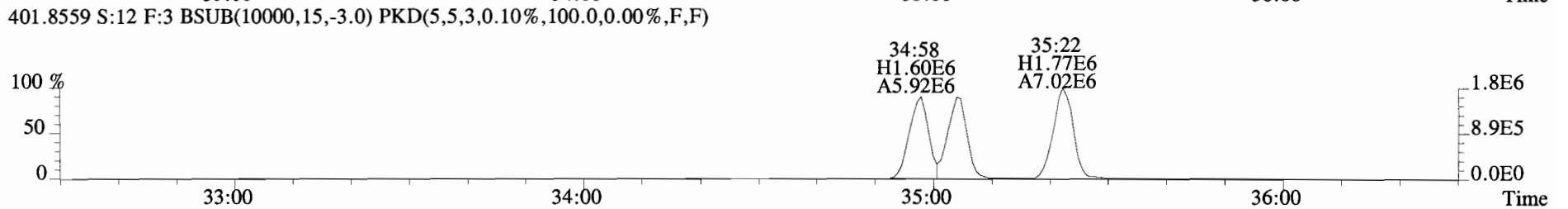
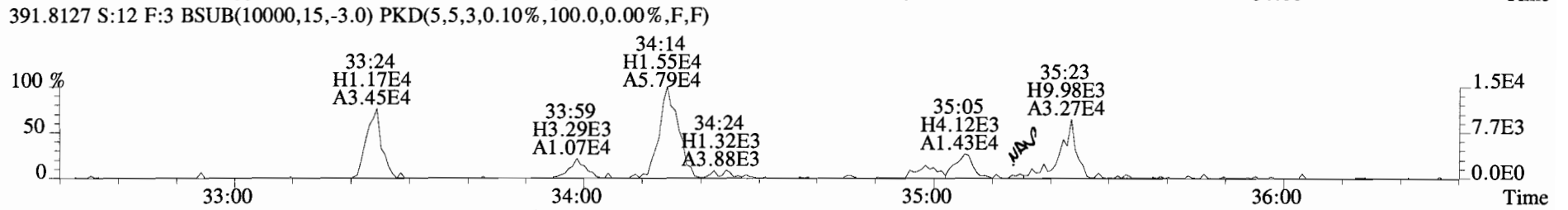
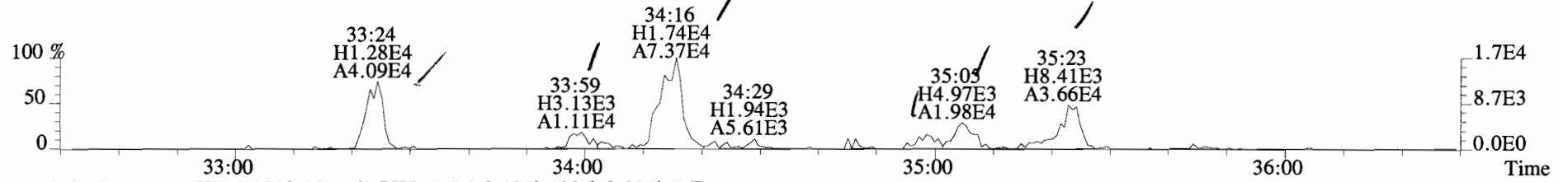
File:140922D1 #1-257 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
353.8576 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



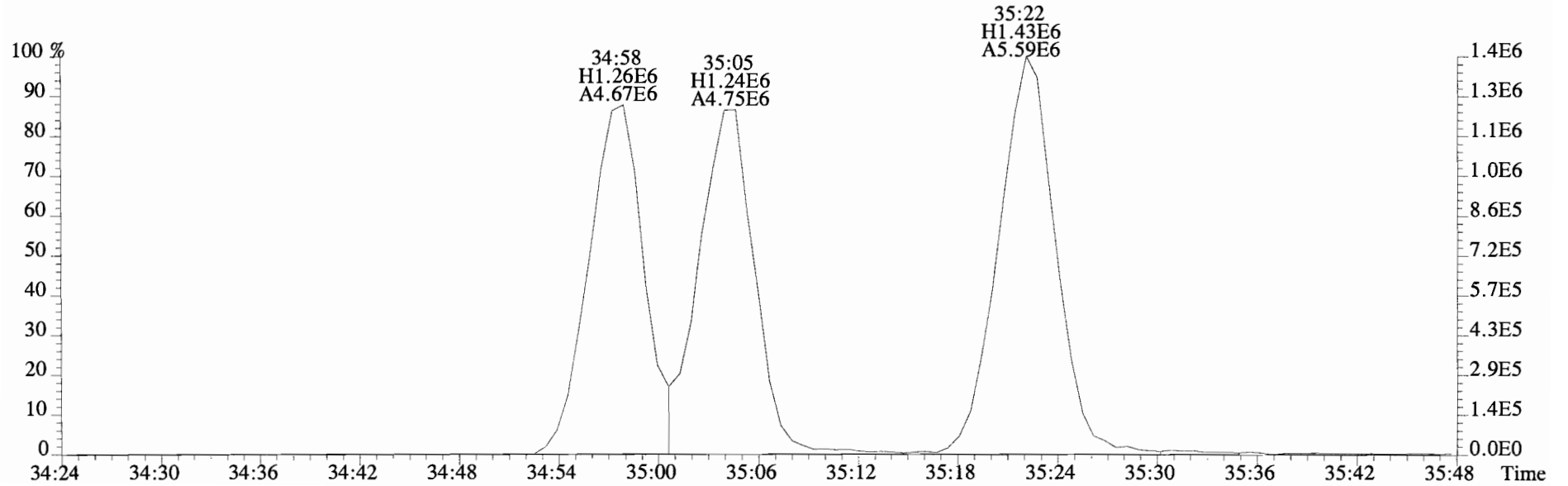
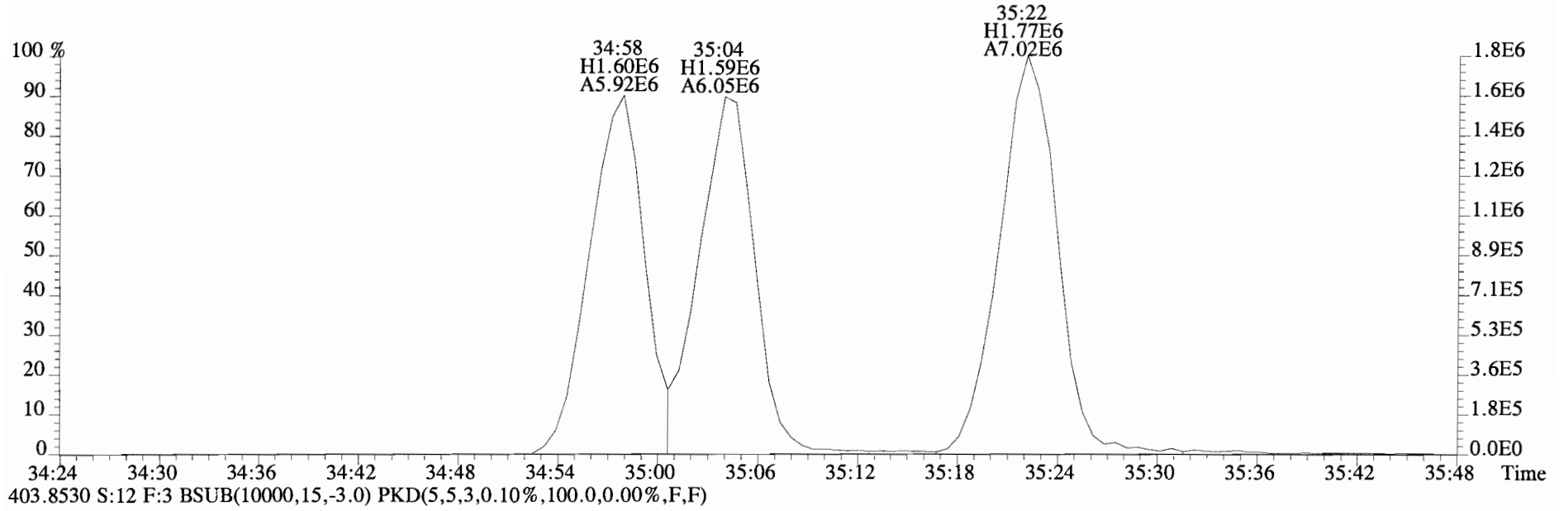
File:140922D1 #1-257 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
353.8576 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



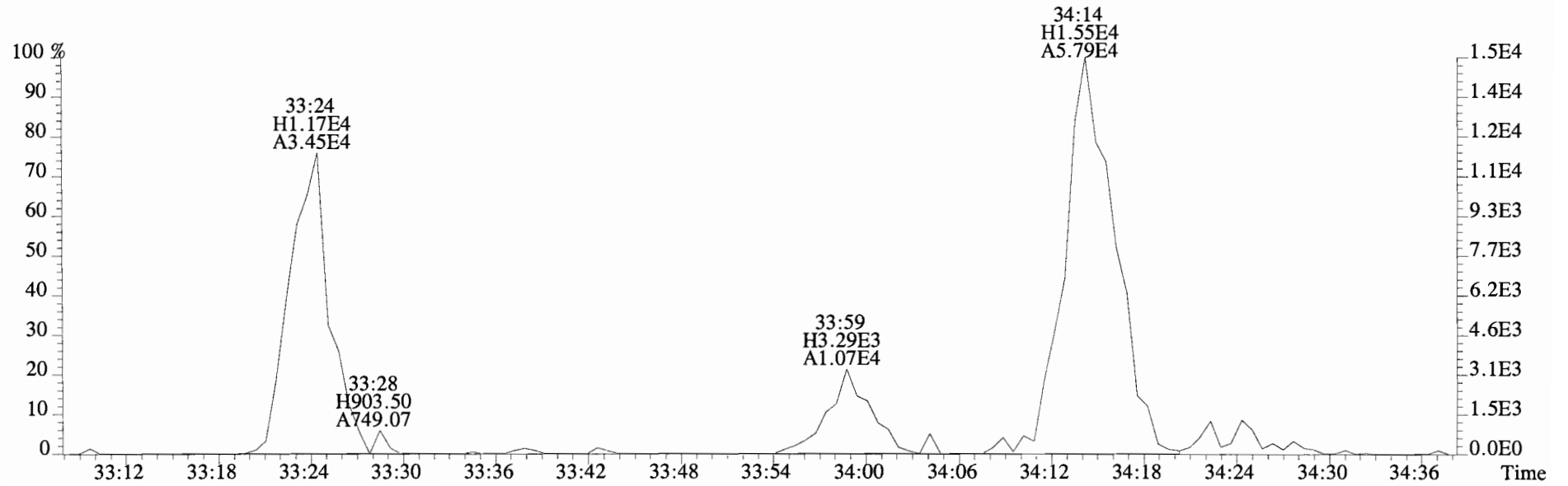
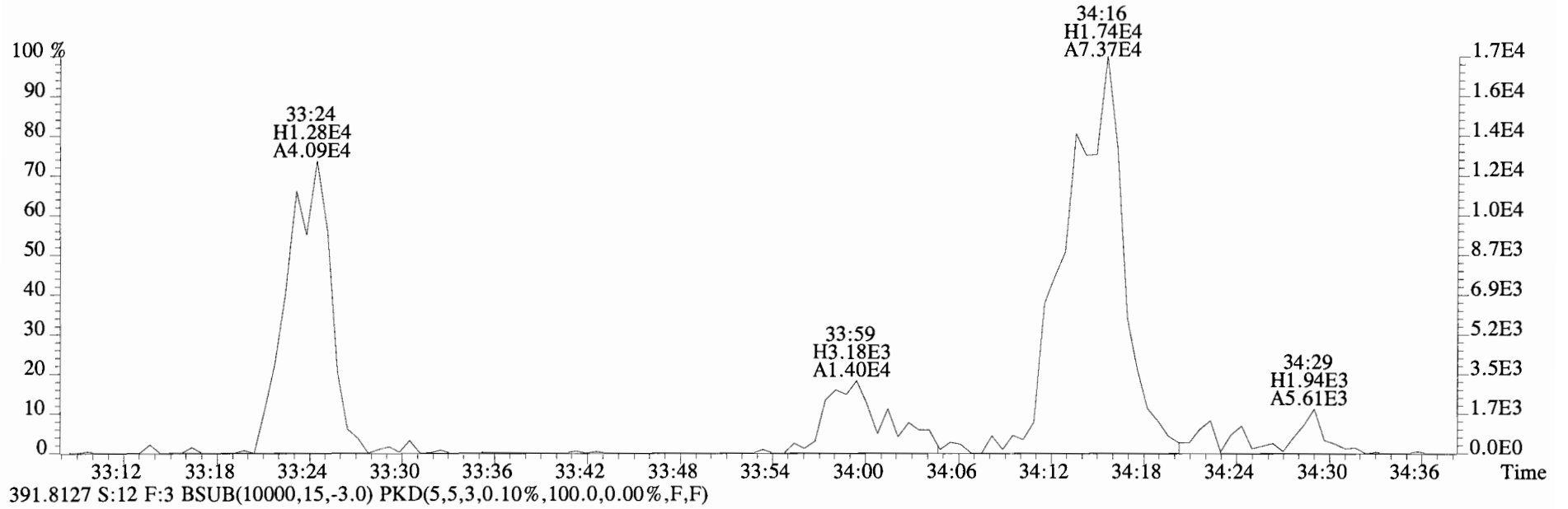
File:140922D1 #1-385 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
389.8156 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



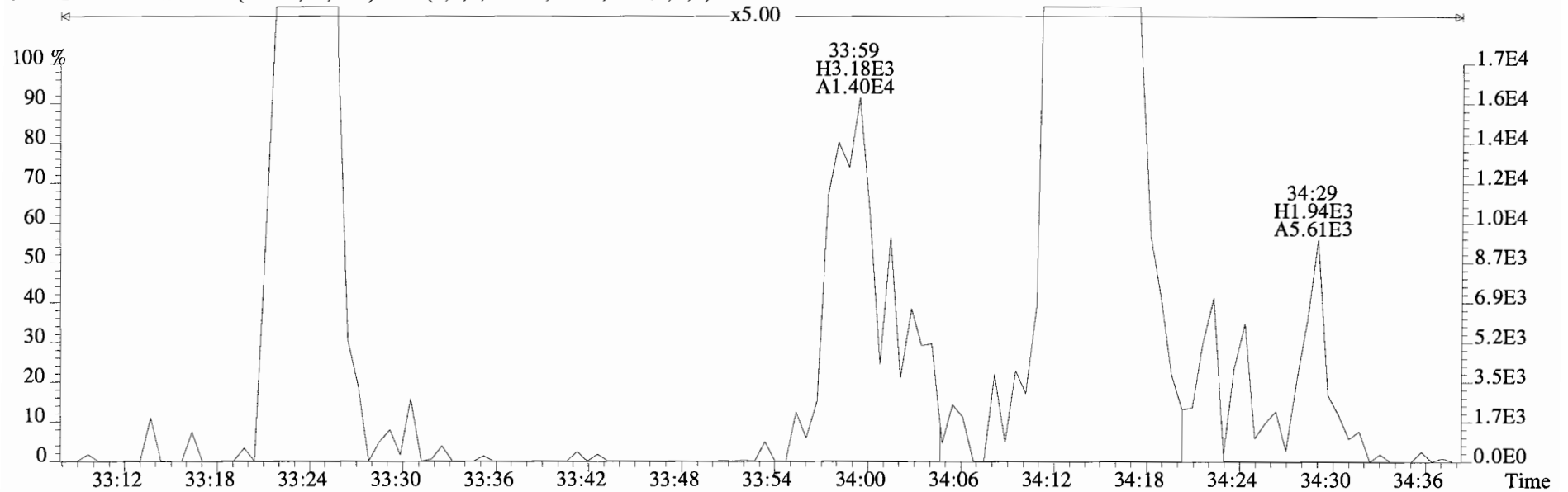
File:140922D1 #1-385 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
401.8559 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



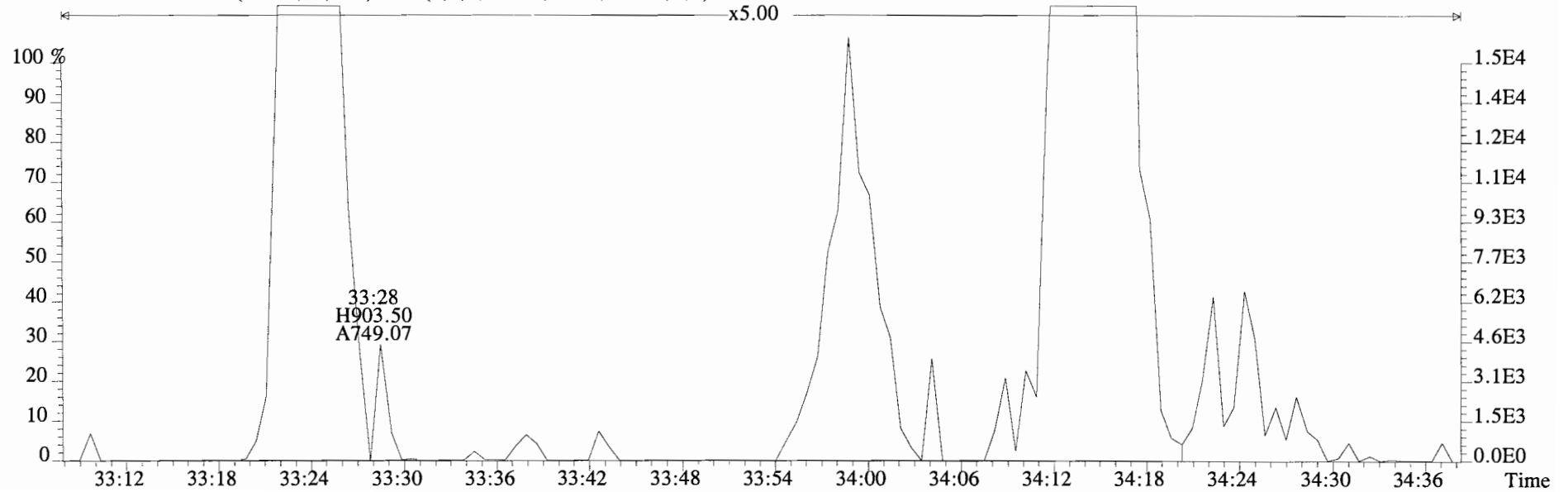
File:140922D1 #1-385 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
389.8156 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



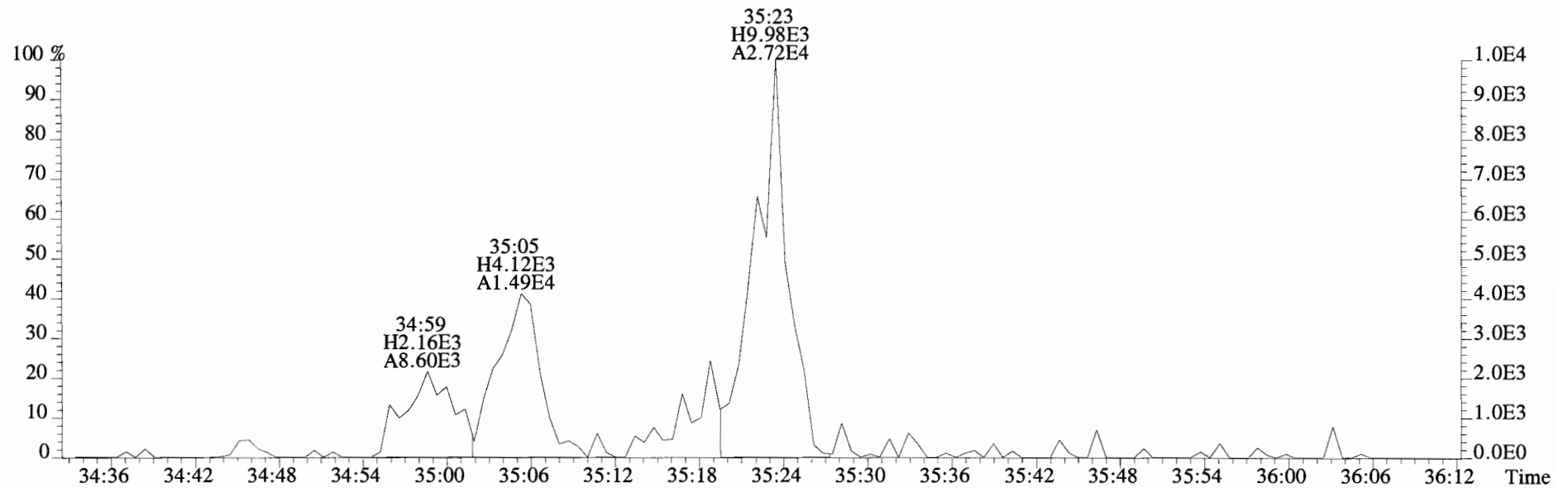
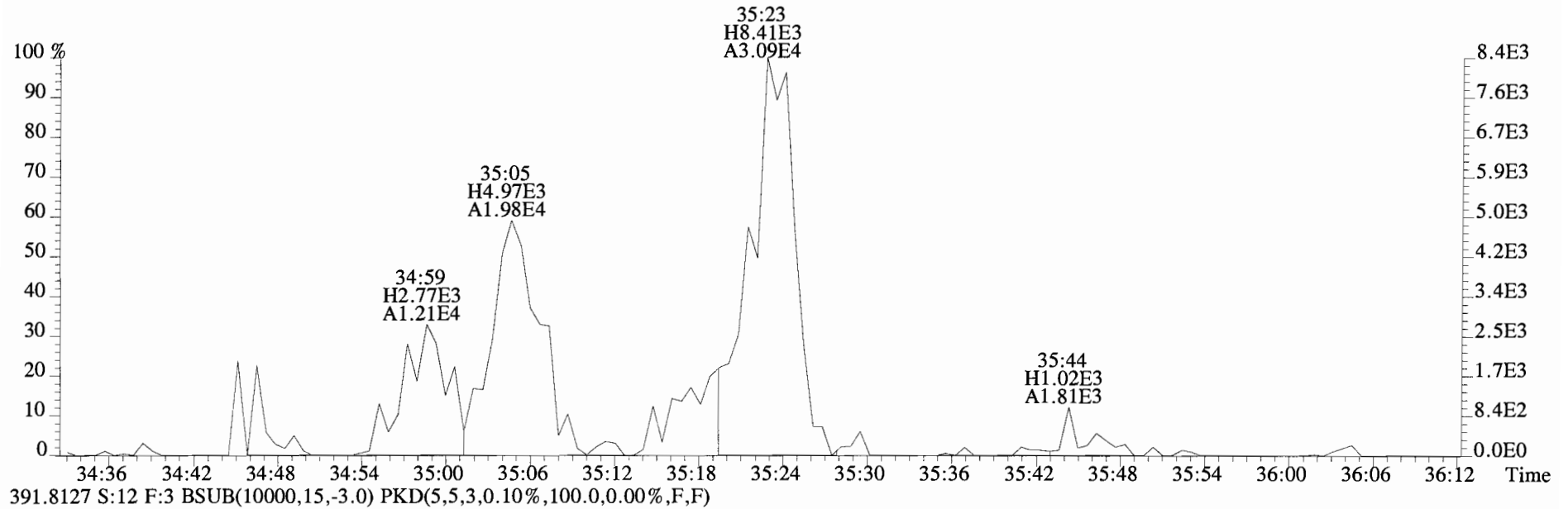
File:140922D1 #1-385 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
389.8156 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



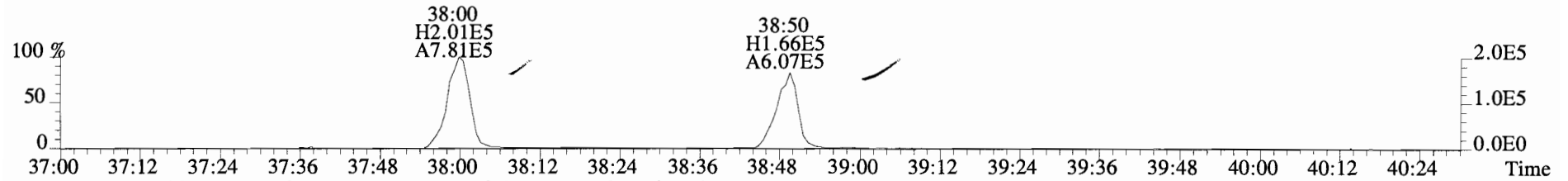
391.8127 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



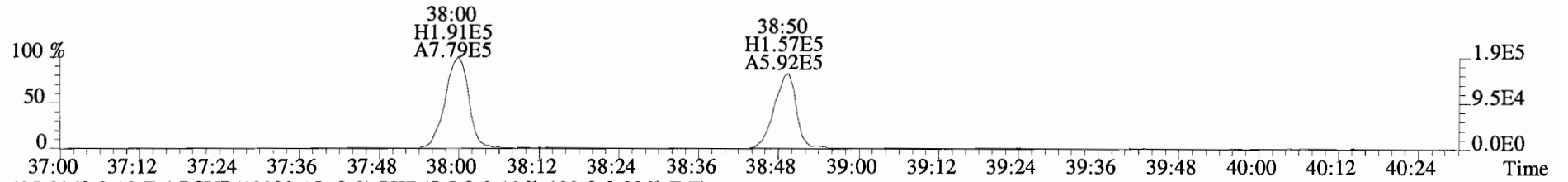
File:140922D1 #1-385 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
389.8156 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



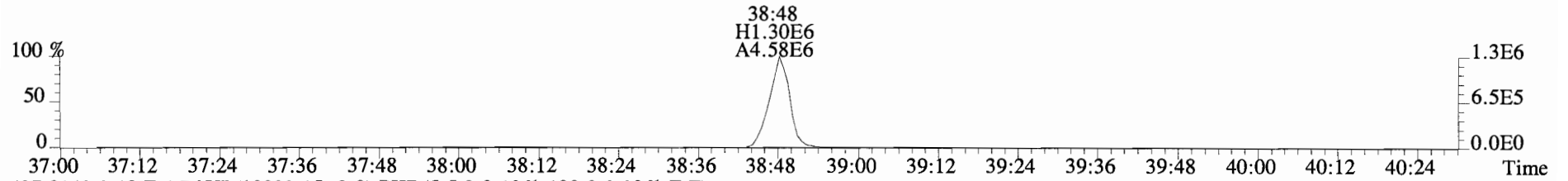
File:140922D1 #1-326 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text: Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
423.7767 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



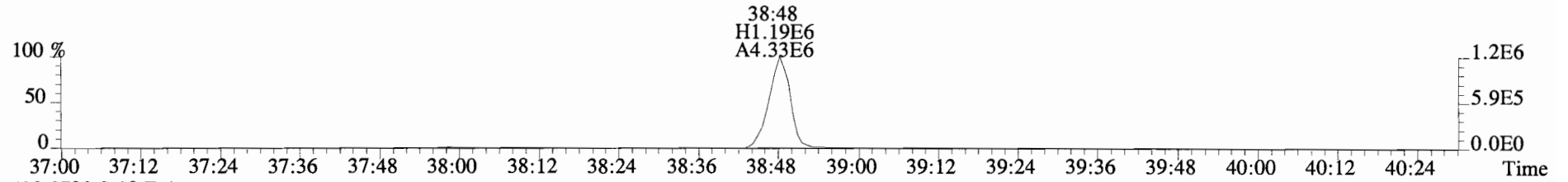
425.7737 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



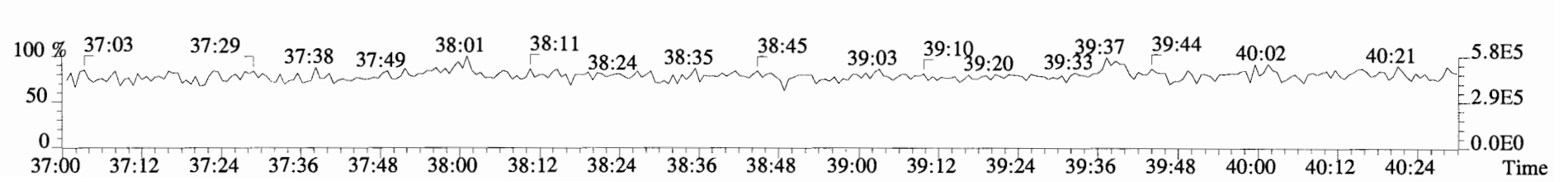
435.8169 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



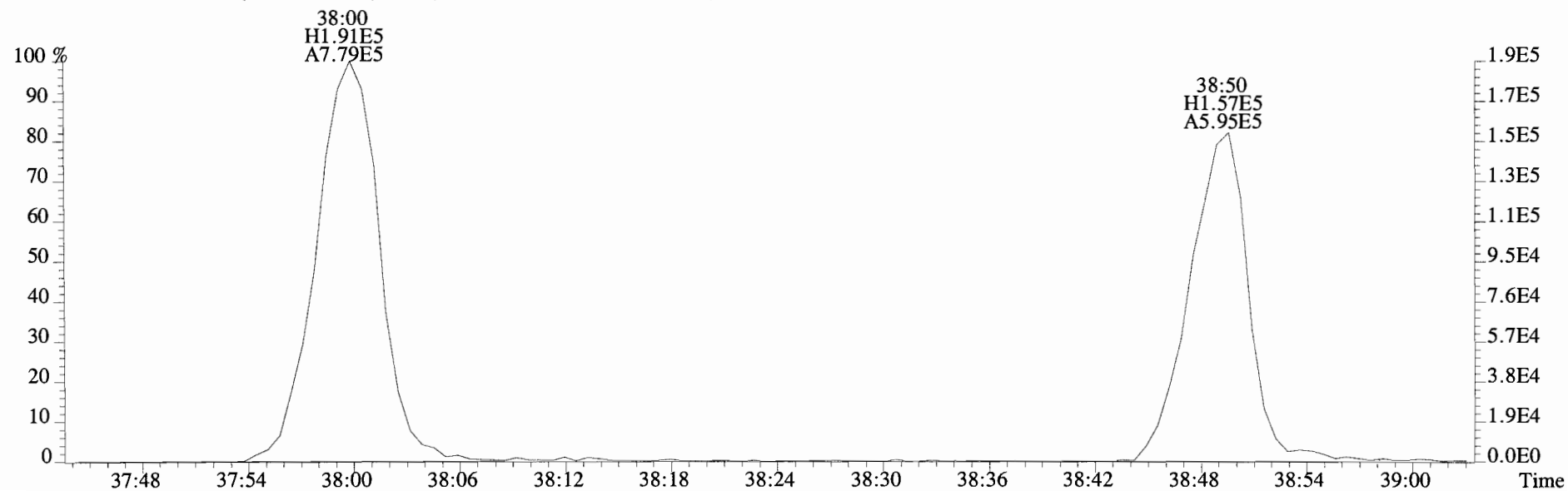
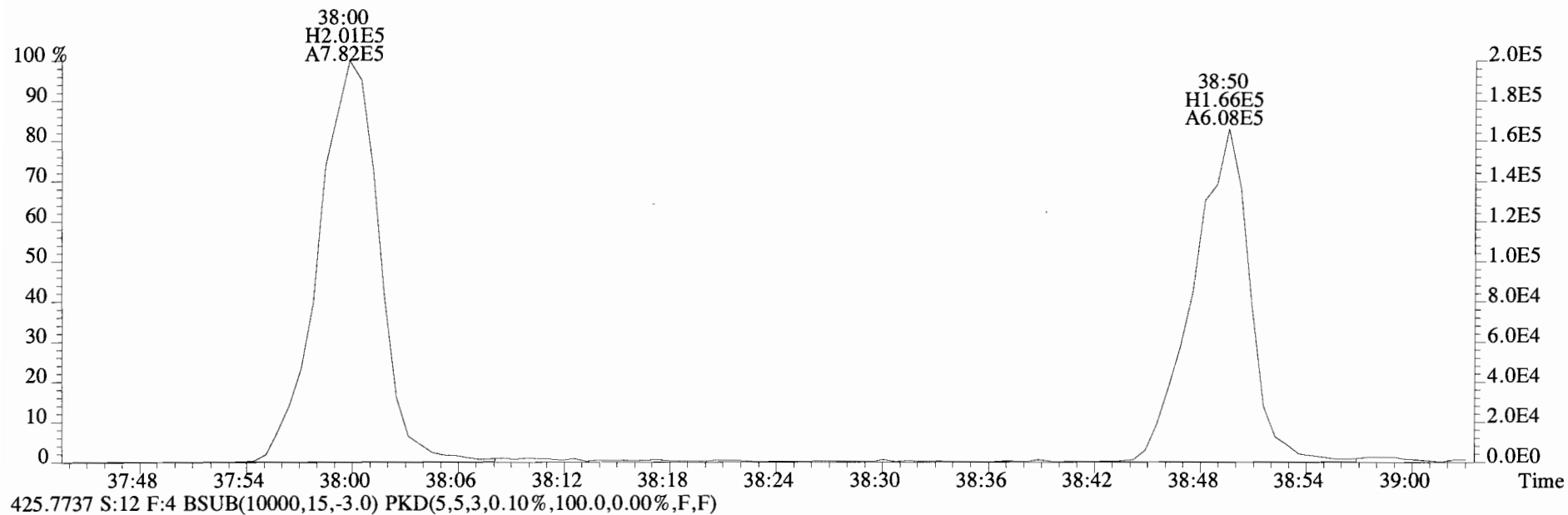
437.8140 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



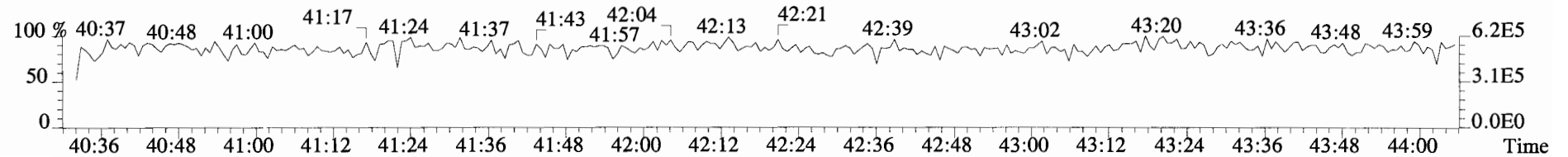
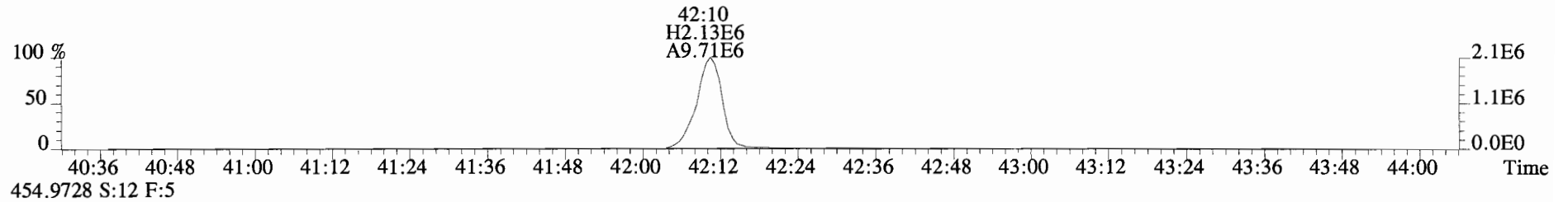
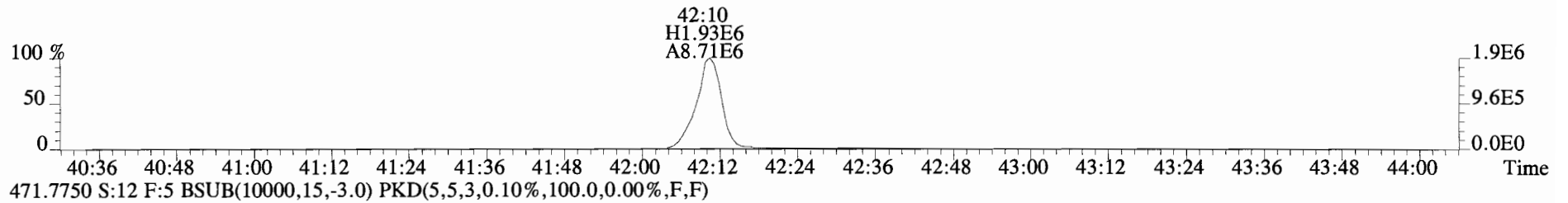
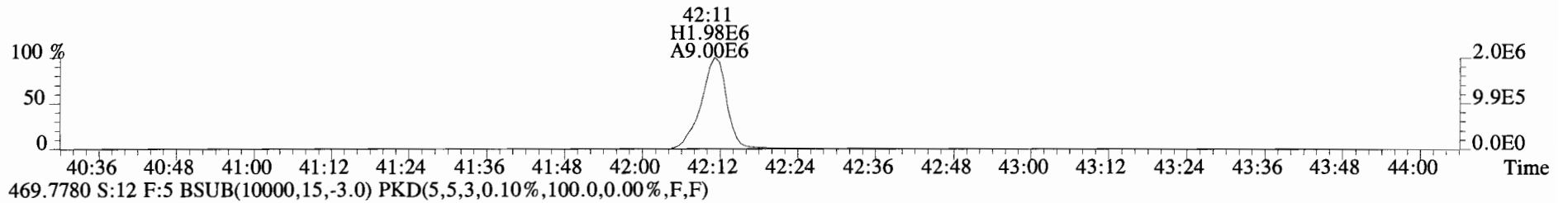
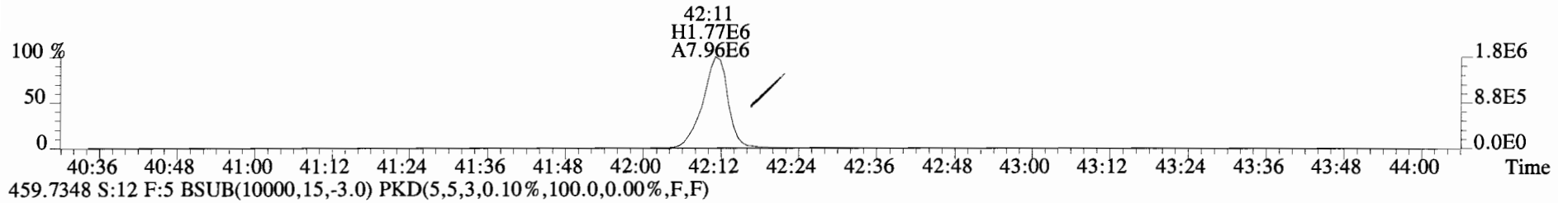
430.9728 S:12 F:4



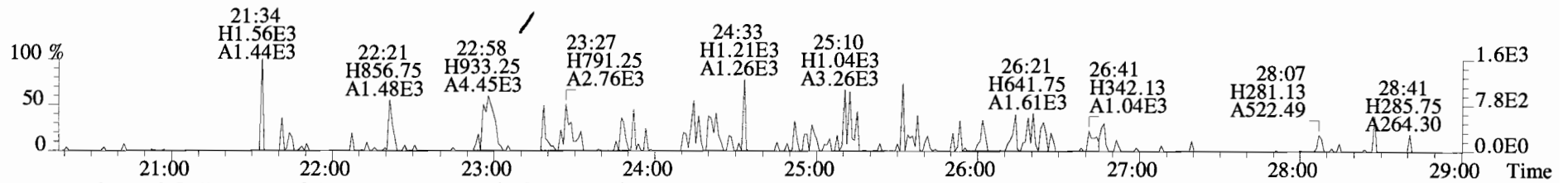
File:140922D1 #1-326 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
423.7767 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



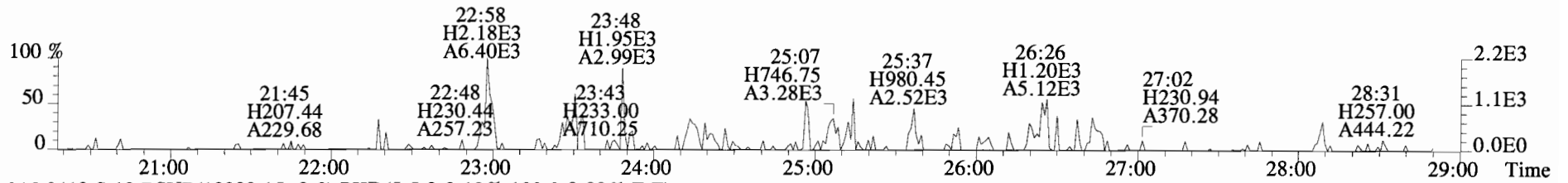
File:140922D1 #1-388 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
457.7377 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



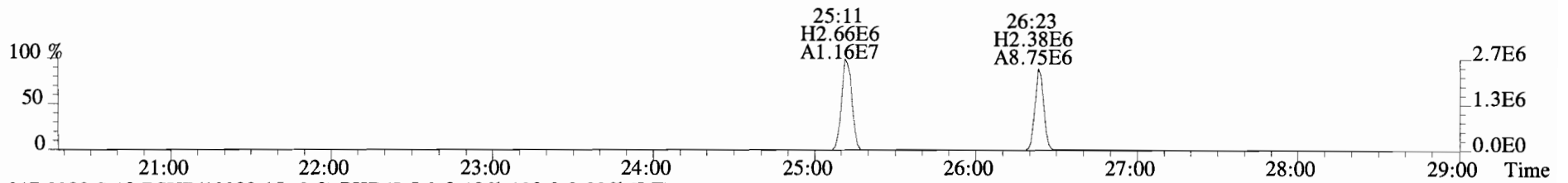
File:140922D1 #1-551 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
303.9016 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



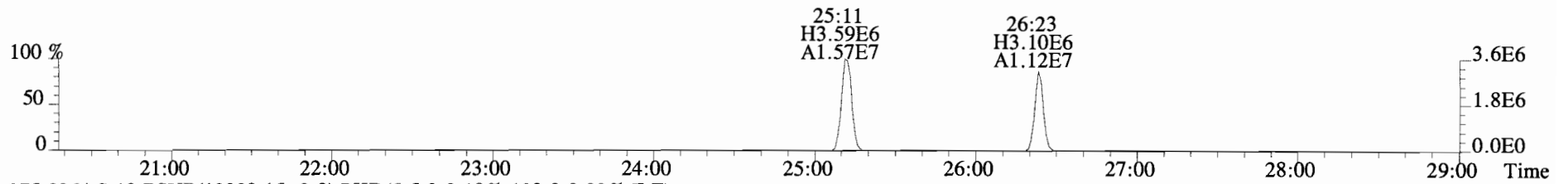
305.8987 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



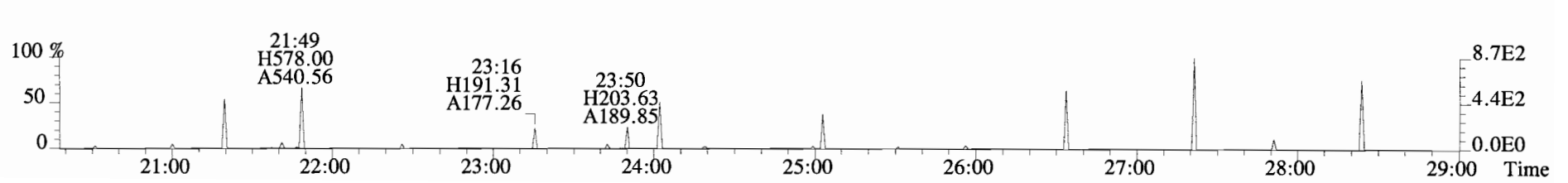
315.9419 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



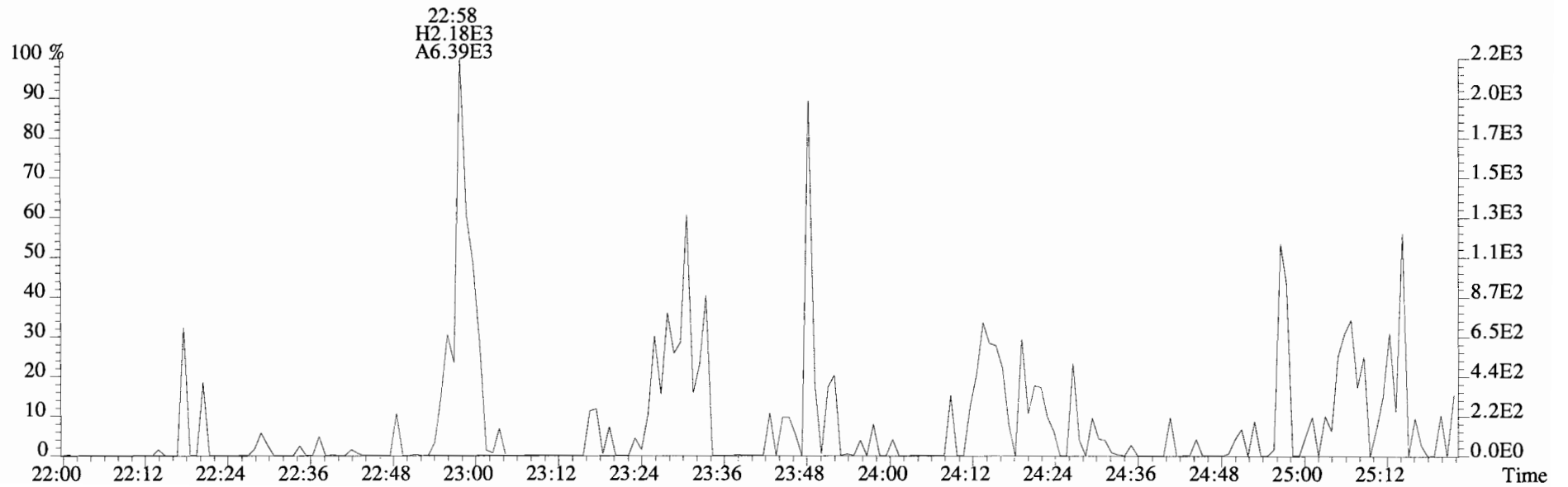
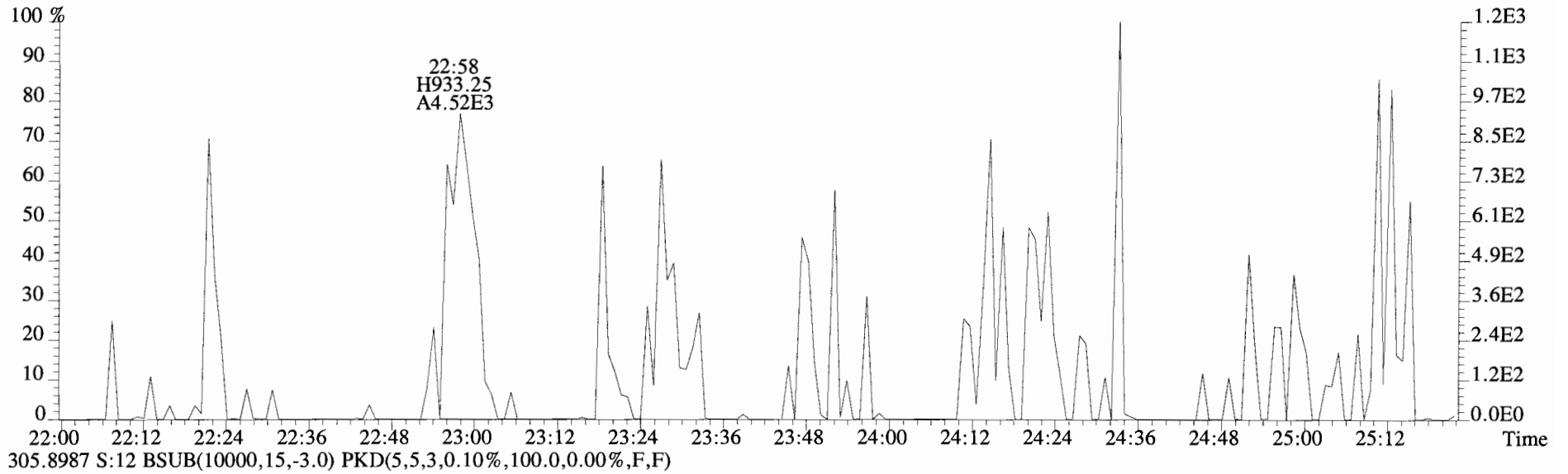
317.9389 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



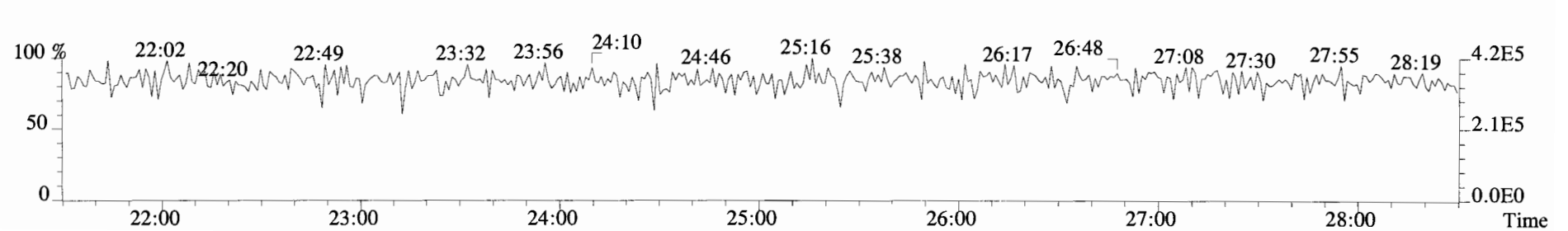
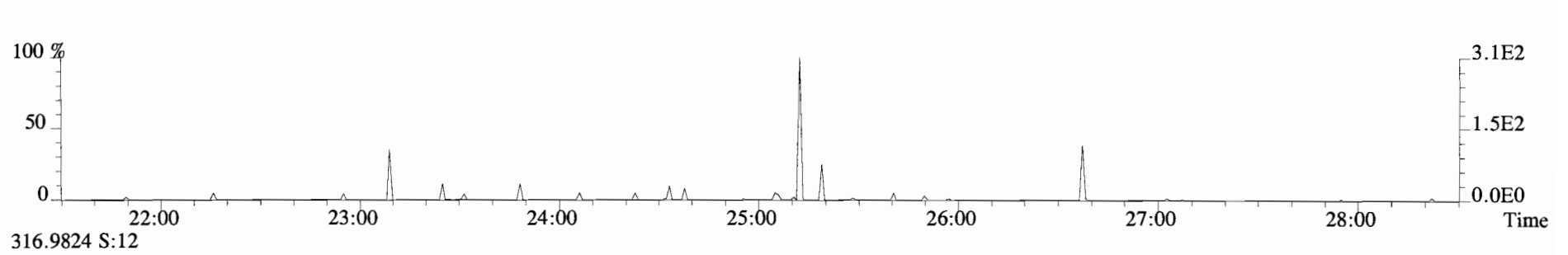
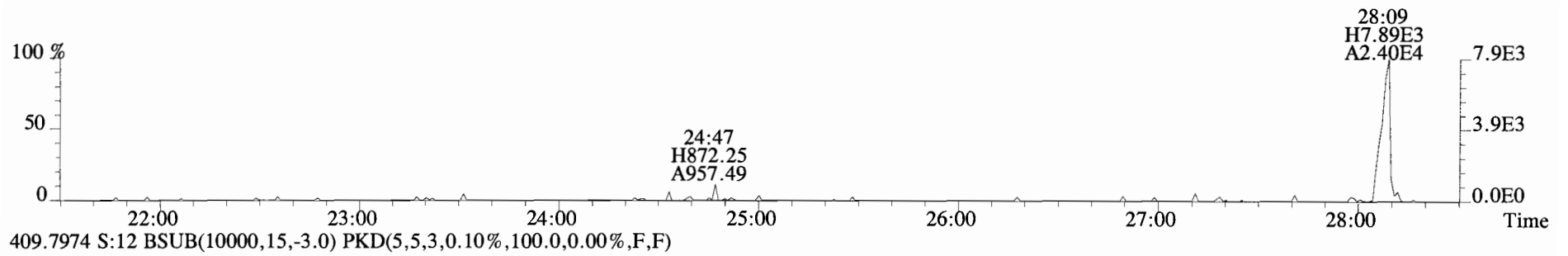
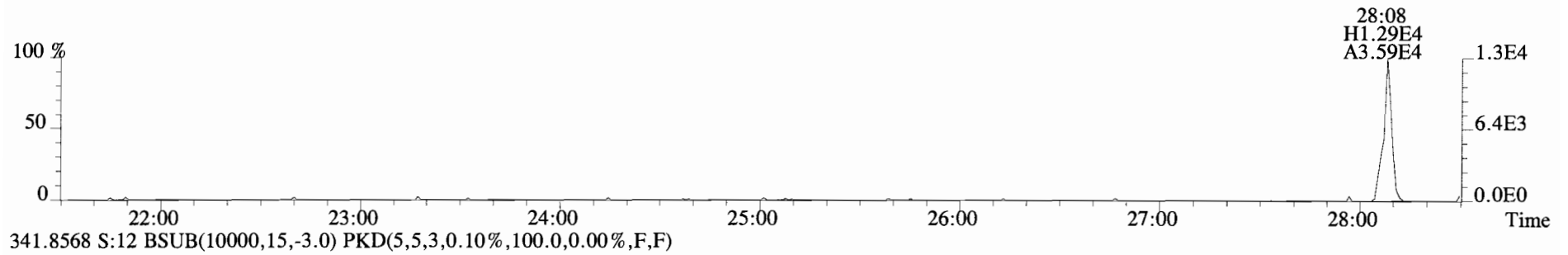
375.8364 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



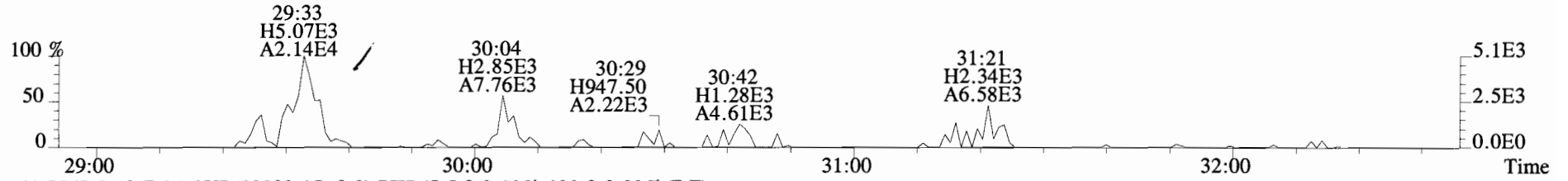
File:140922D1 #1-551 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
303.9016 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



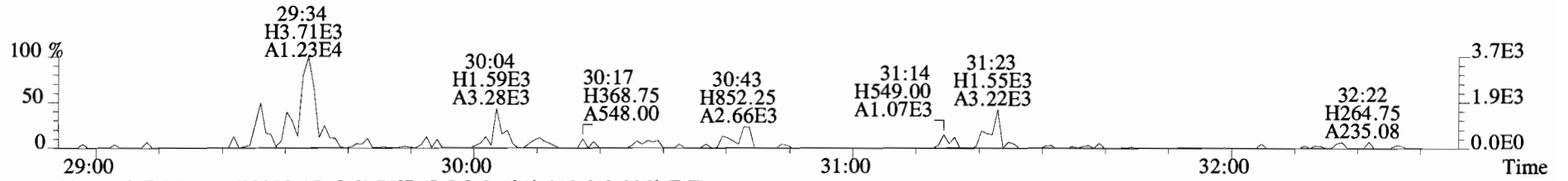
File:140922D1 #1-551 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
339.8597 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



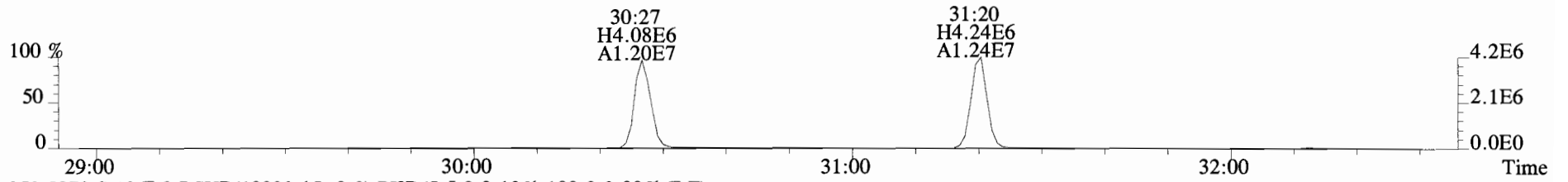
File:140922D1 #1-257 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
339.8597 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



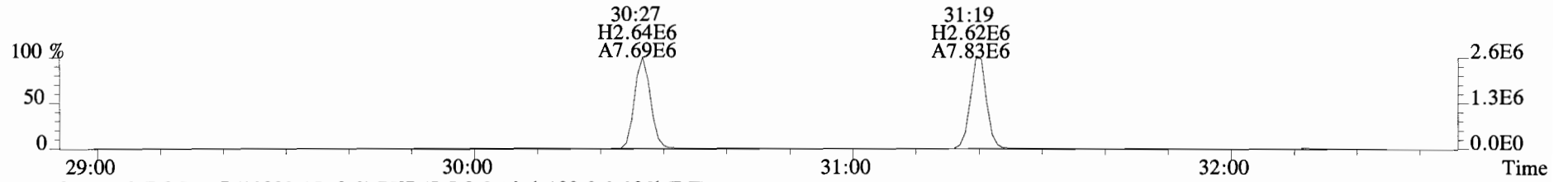
341.8568 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



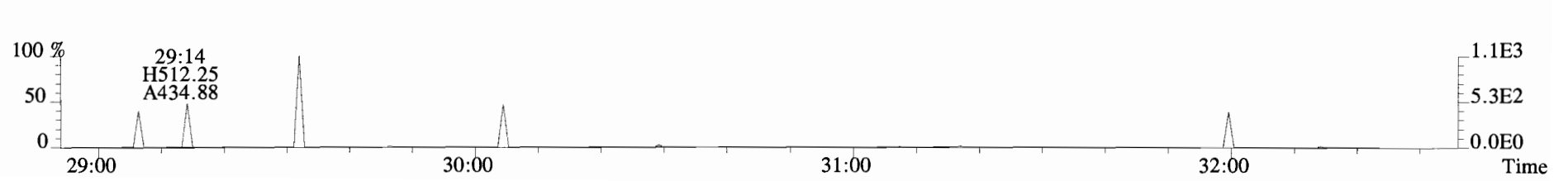
351.9000 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



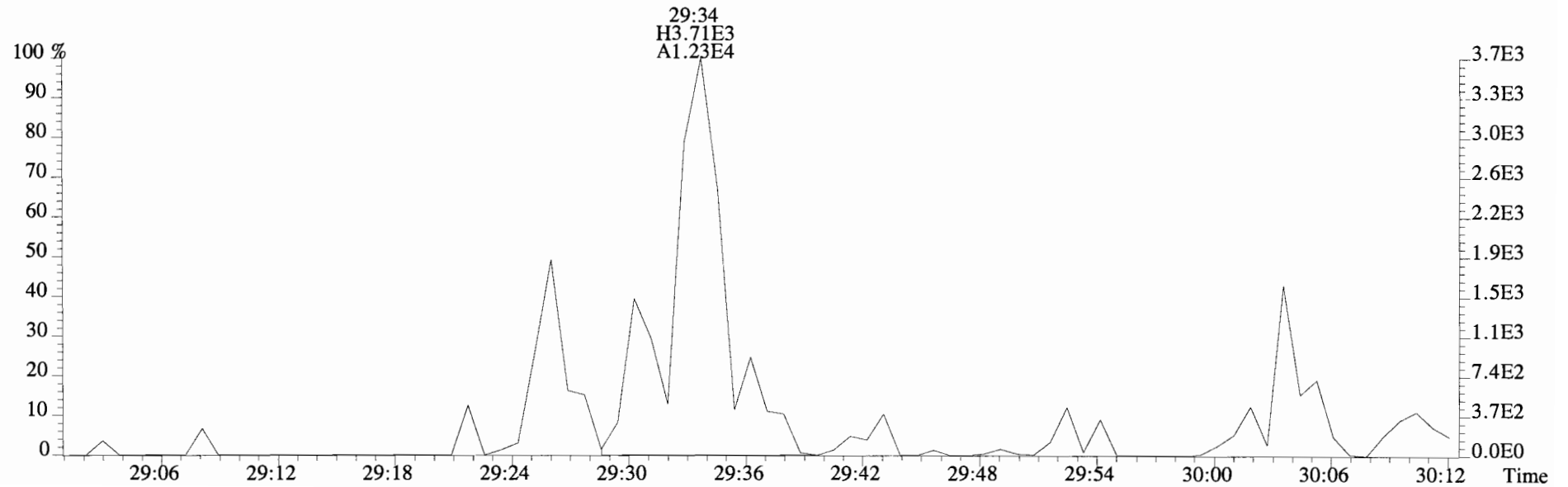
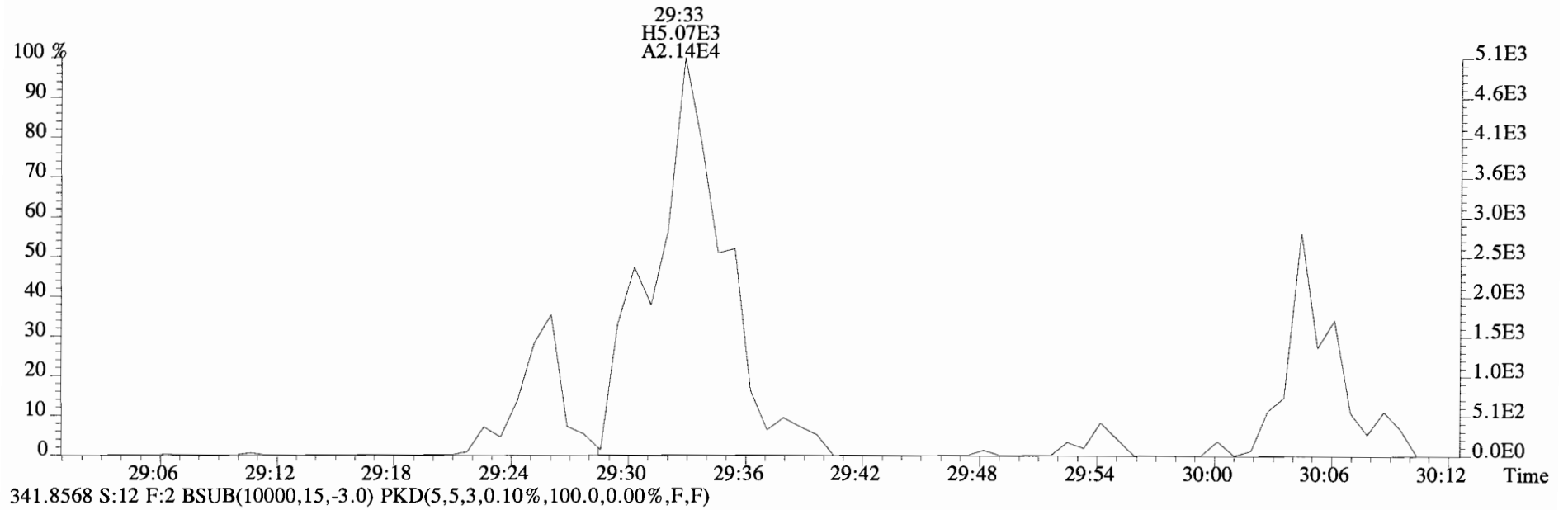
353.8970 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



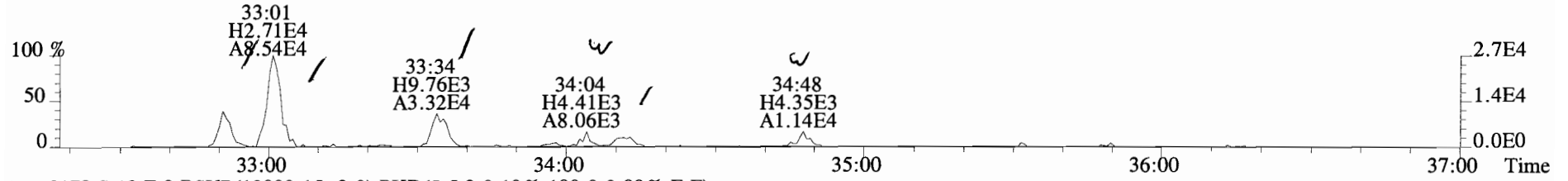
409.7974 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



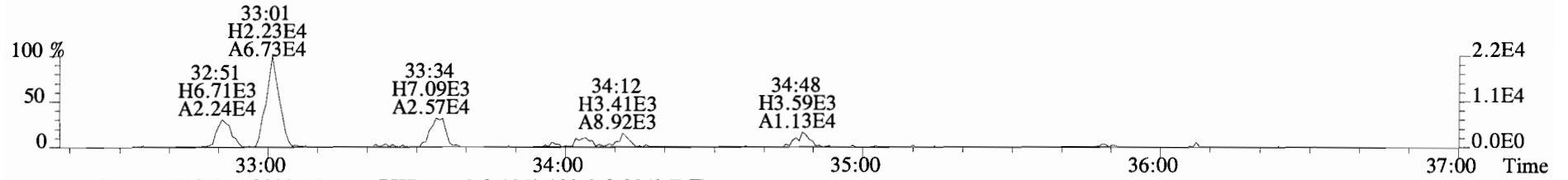
File:140922D1 #1-257 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
339.8597 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



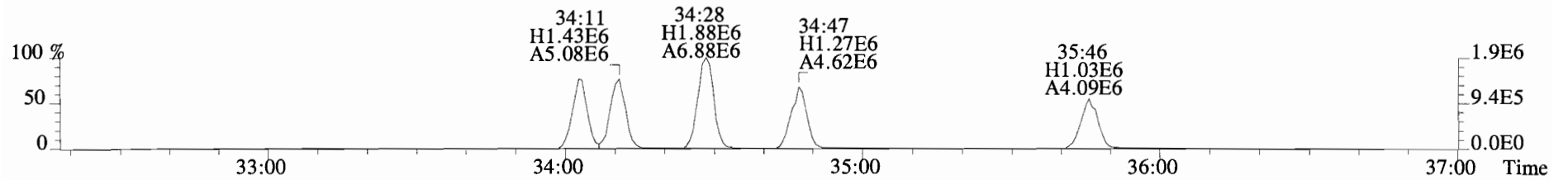
File:140922D1 #1-385 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
373.8207 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



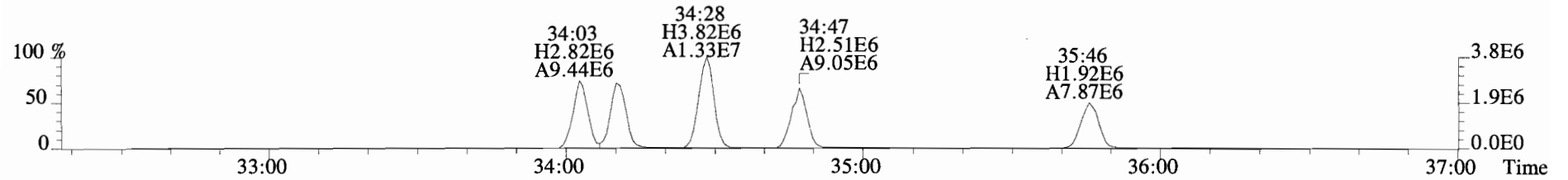
375.8178 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



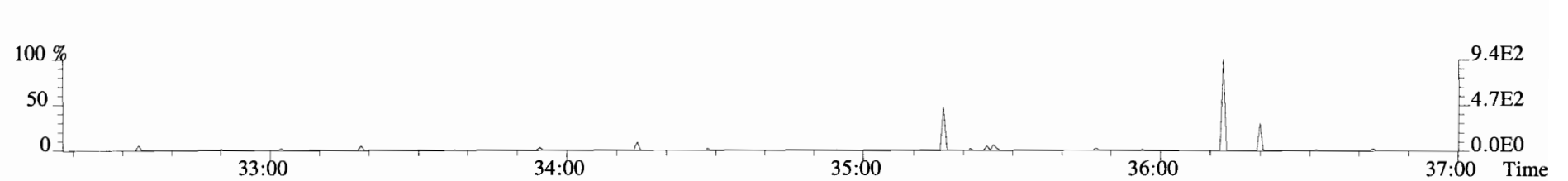
383.8639 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



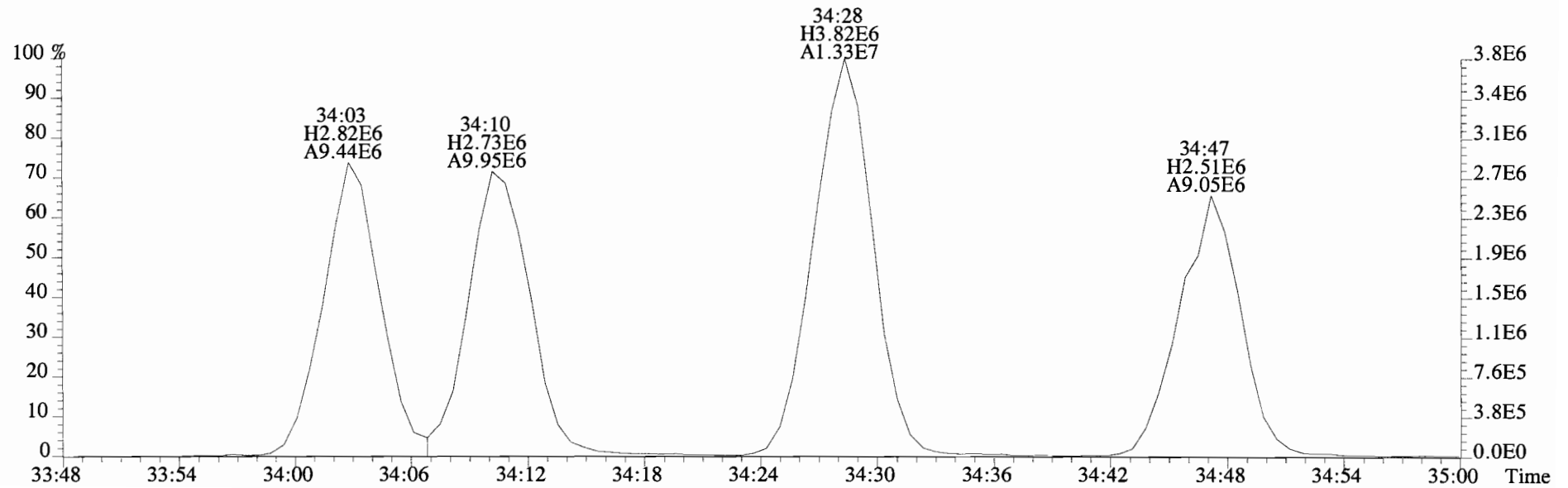
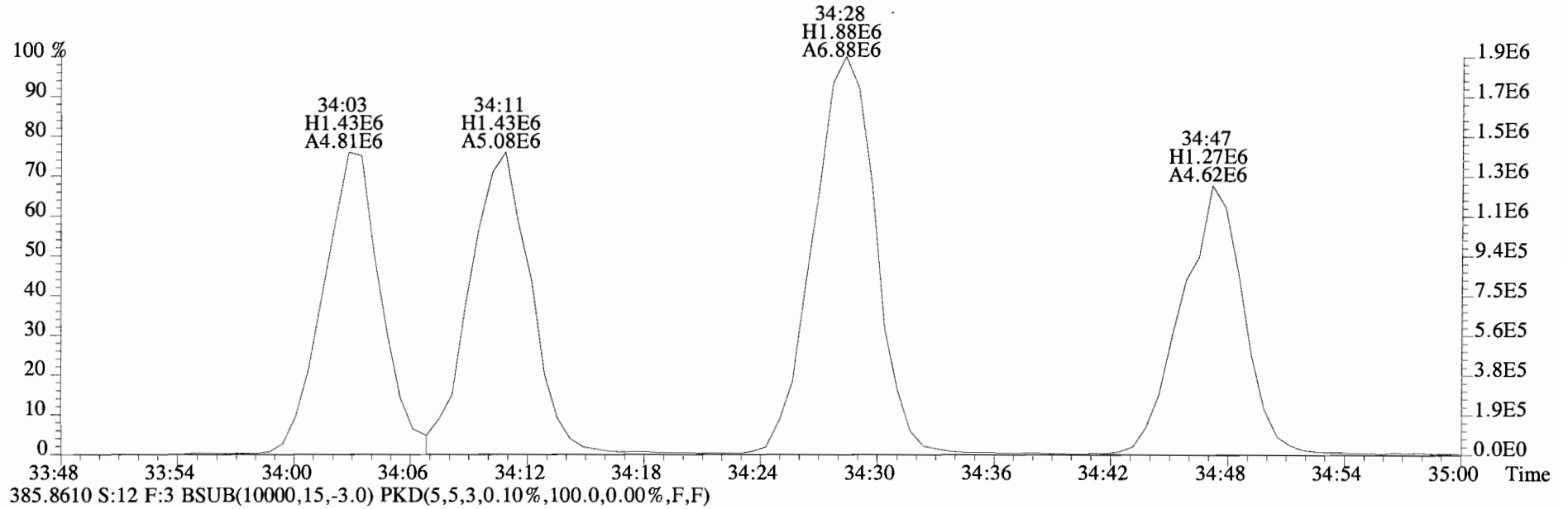
385.8610 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



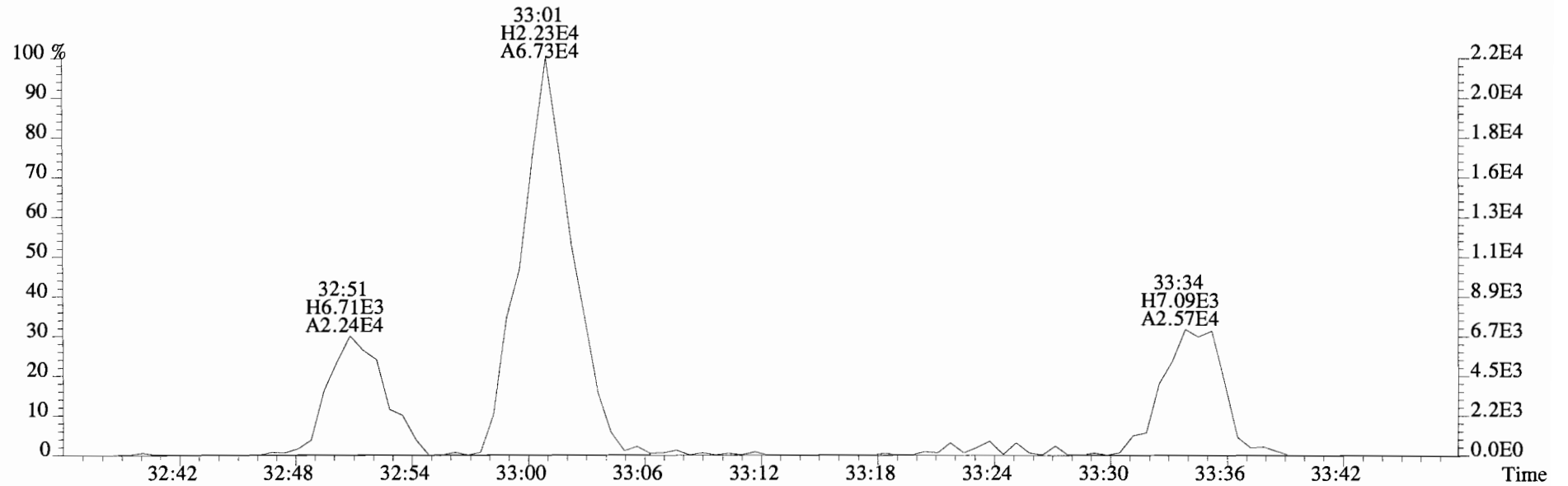
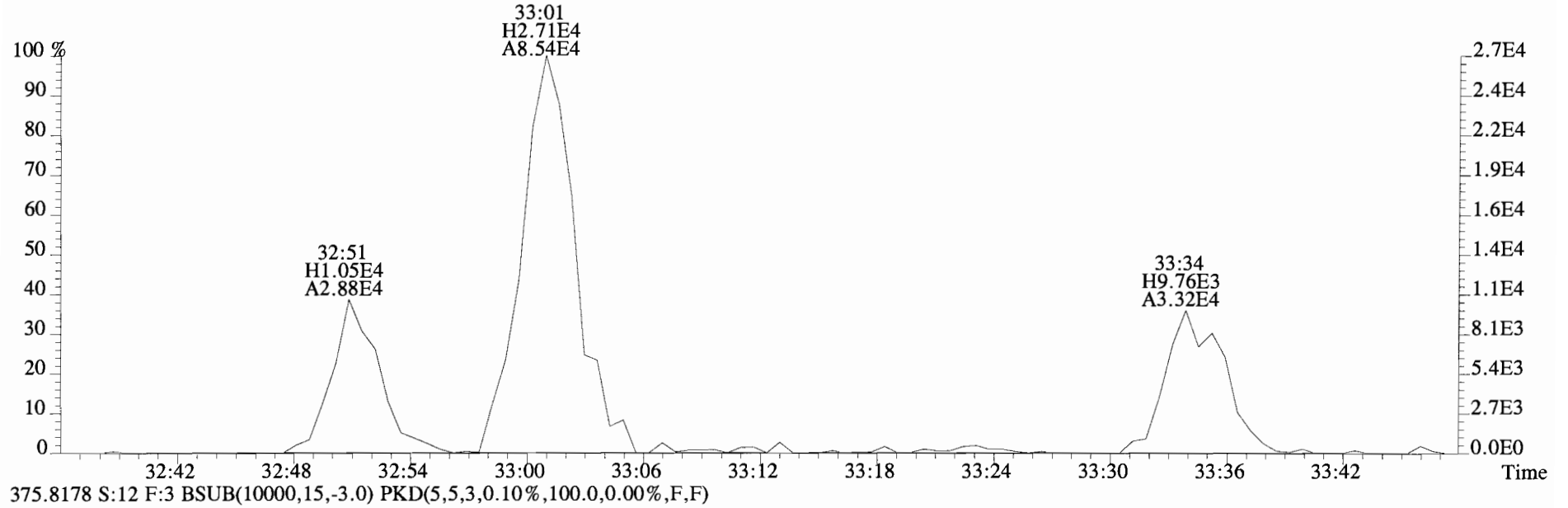
445.7555 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



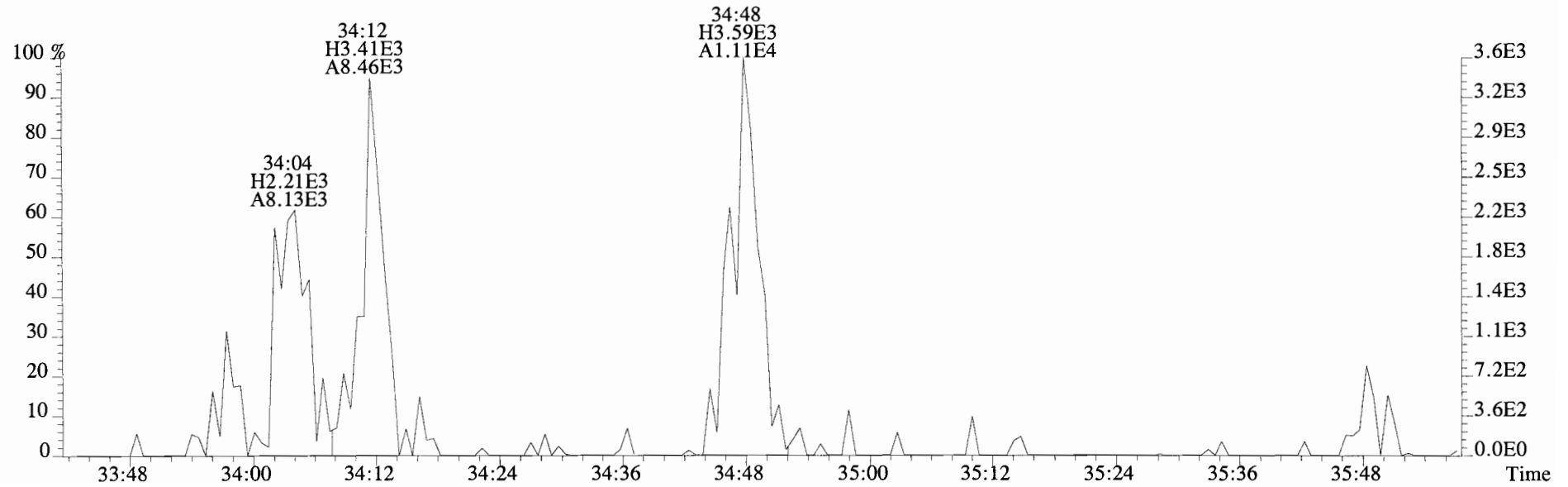
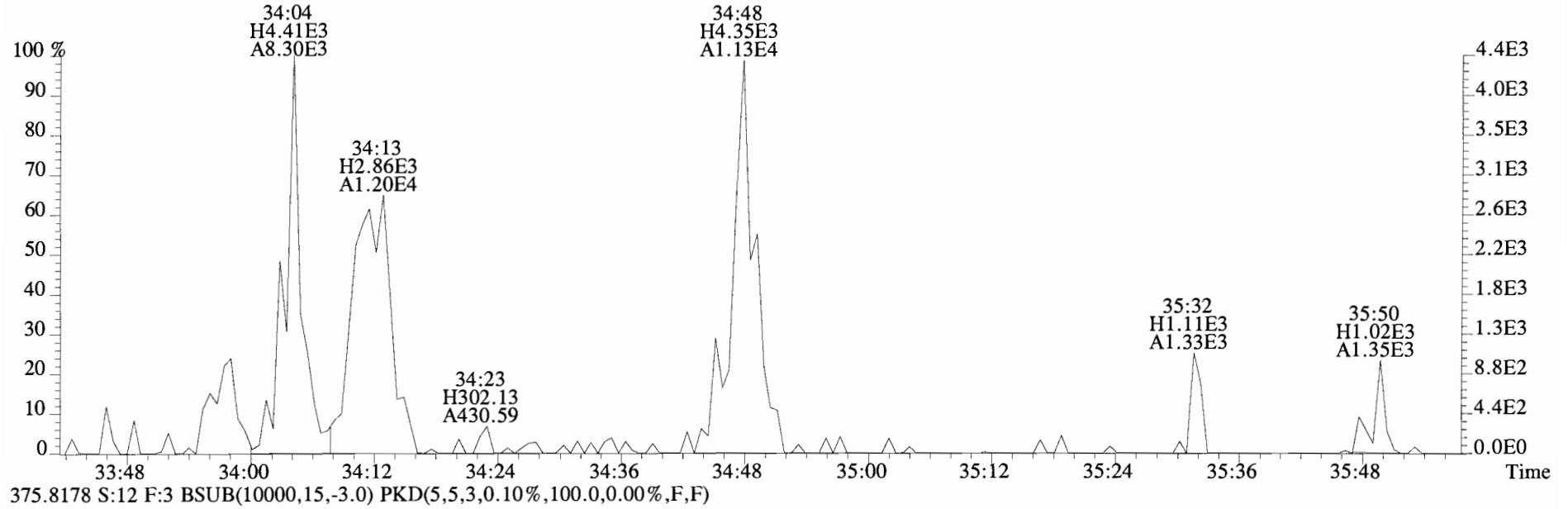
File:140922D1 #1-385 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
383.8639 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



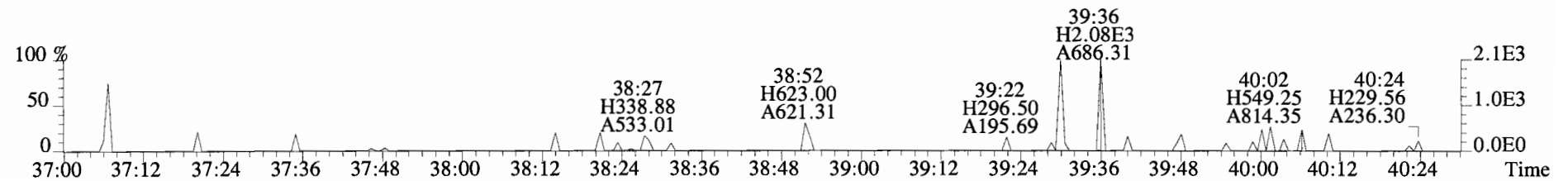
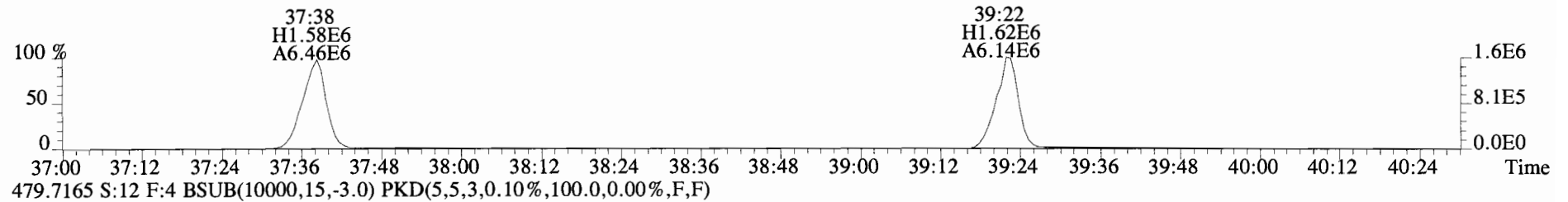
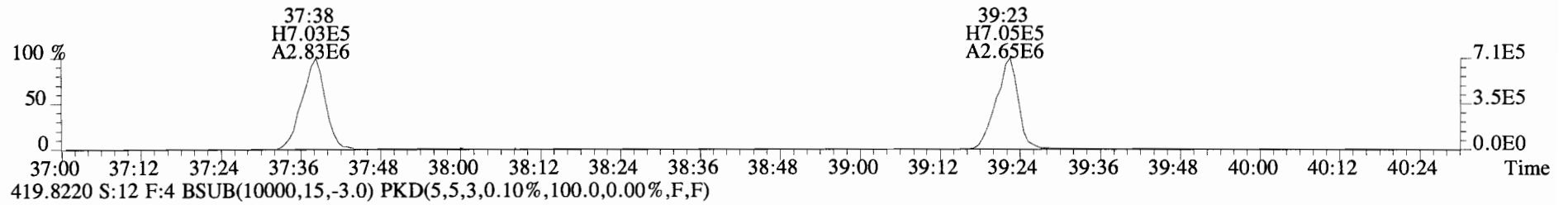
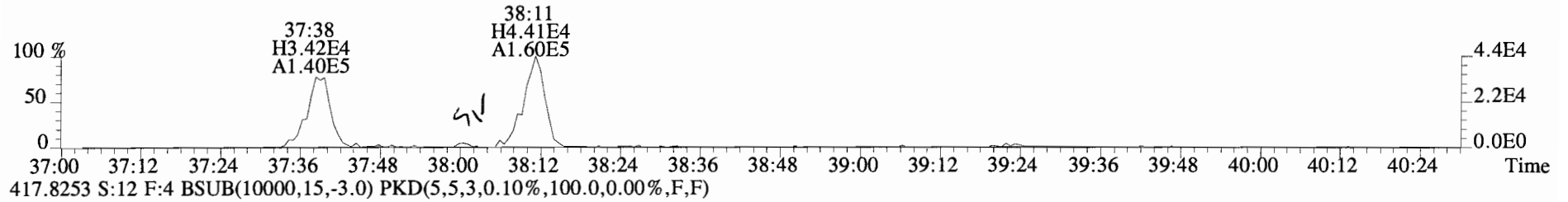
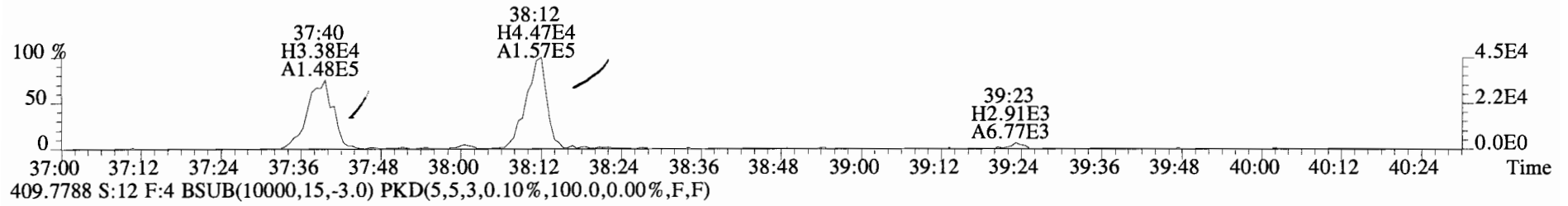
File:140922D1 #1-385 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
373.8207 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



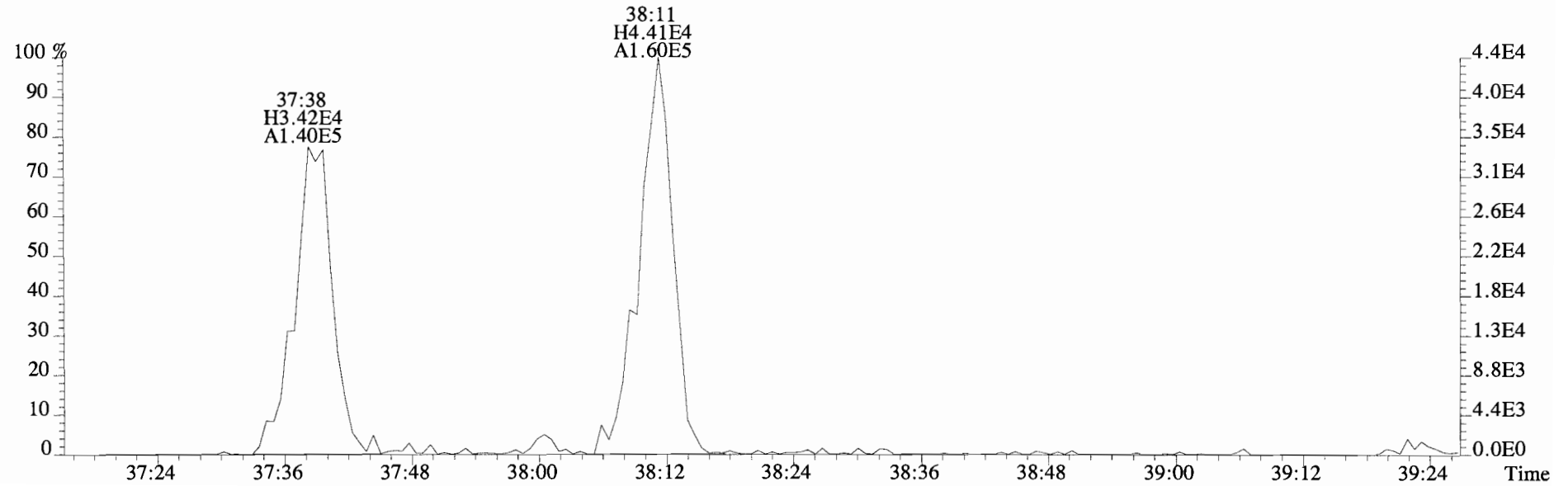
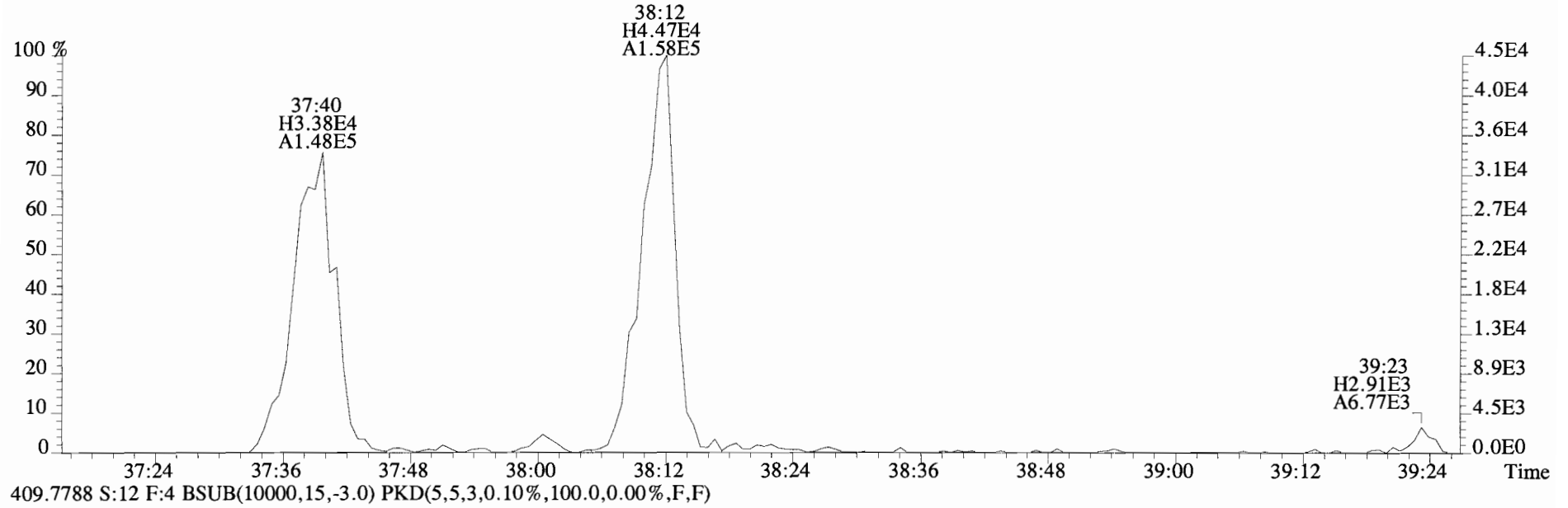
File:140922D1 #1-385 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
373.8207 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



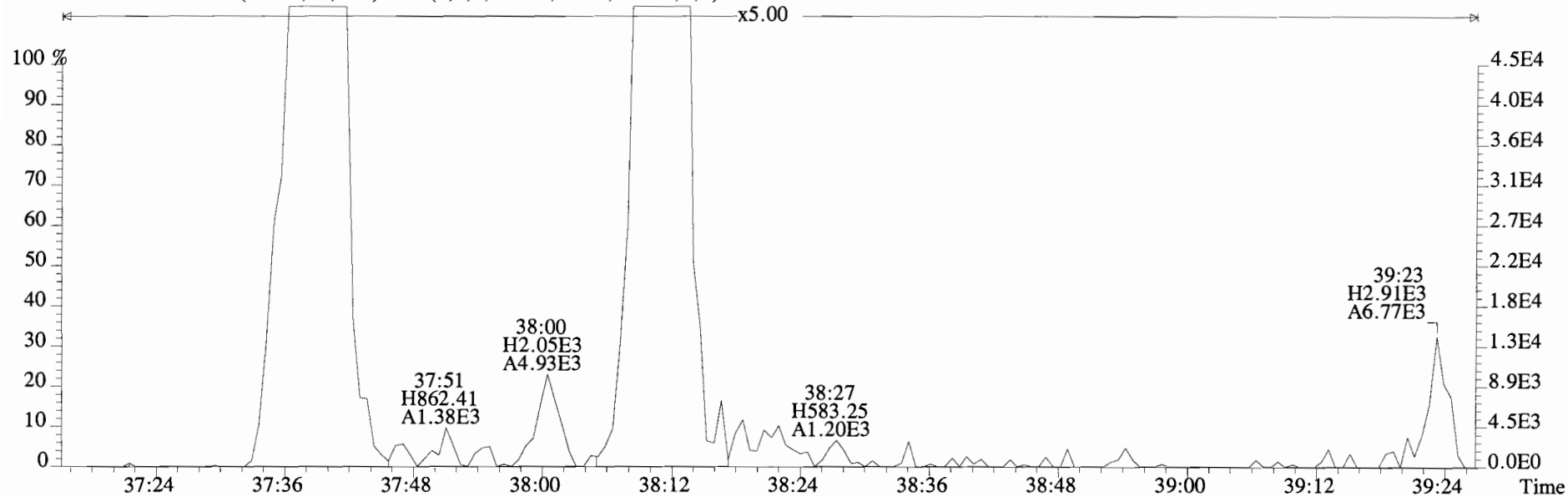
File:140922D1 #1-326 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
407.7818 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



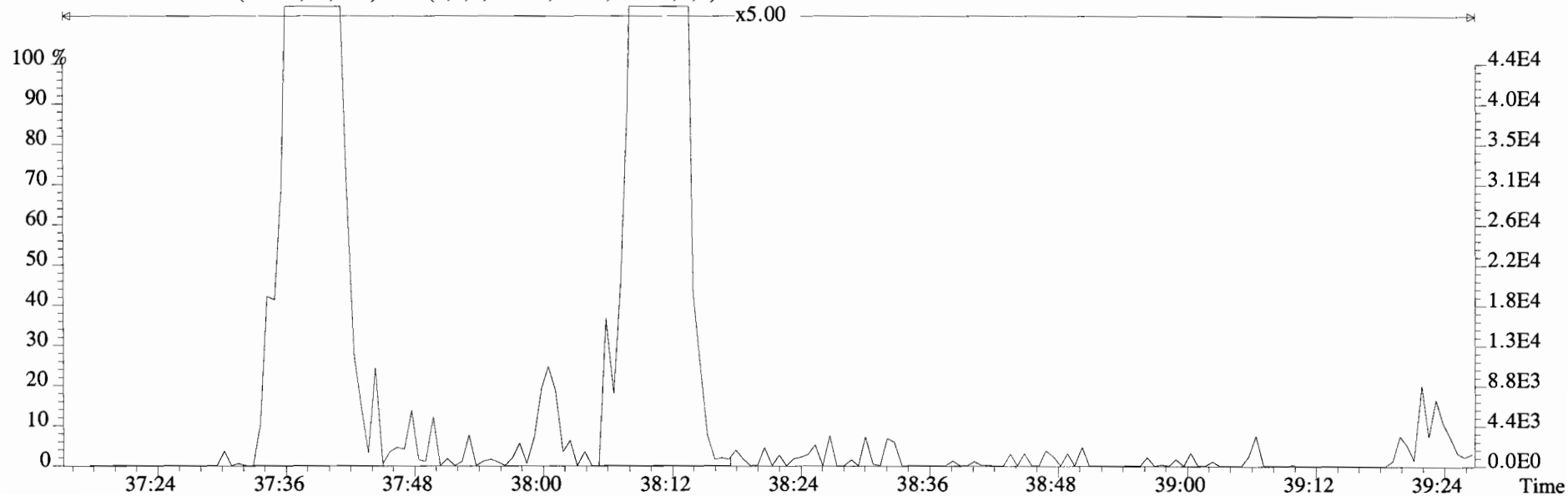
File:140922D1 #1-326 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
407.7818 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



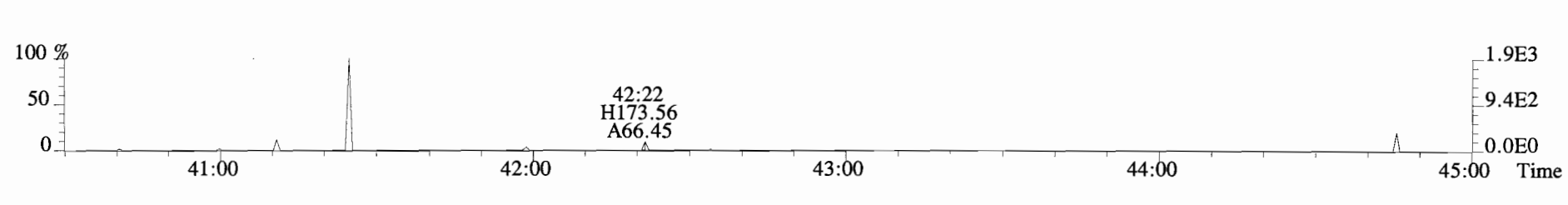
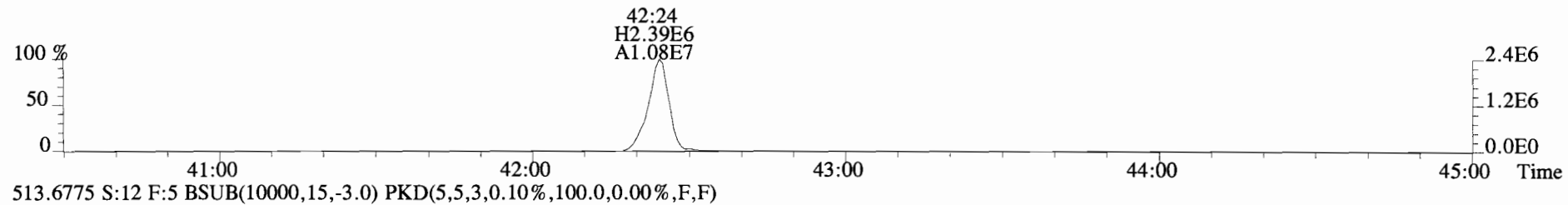
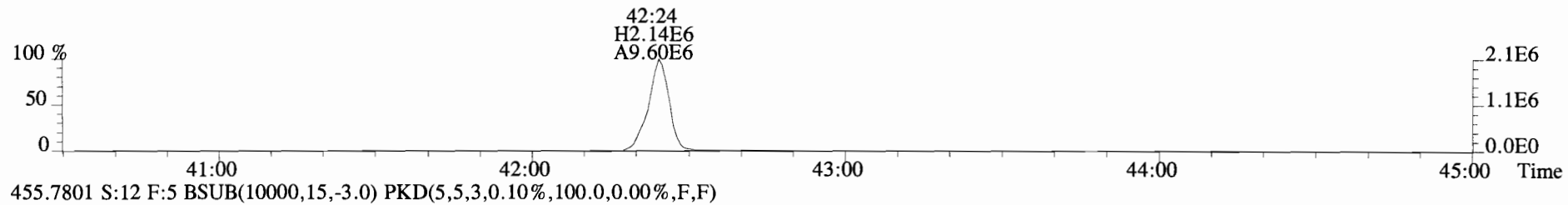
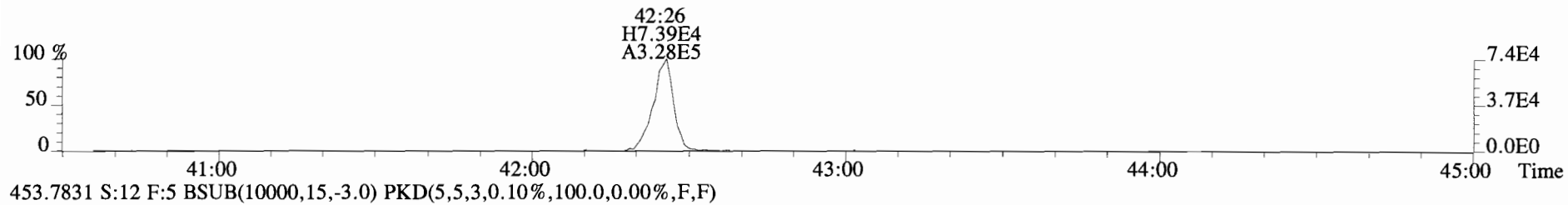
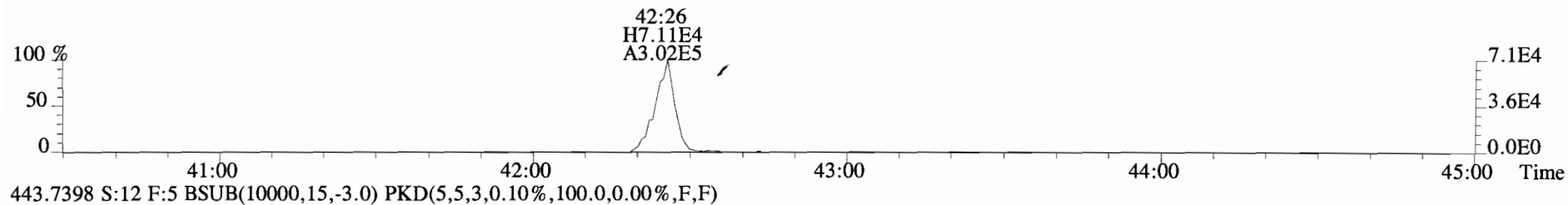
File:140922D1 #1-326 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
407.7818 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



409.7788 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140922D1 #1-388 Acq:22-SEP-2014 22:25:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400659-02 PS-OS-01-20140909-W 1.0231 Exp:OCDD_DB5
441.7428 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Client ID: Method Blank
Lab ID: B410053-BLK1

Filename: 140917D1 S:8 Acq:17-SEP-14 18:50:05
GC Column ID: ZB-5MS ICAL: 1613VG7-4-17-14 wt/vol:10.000

ConCal: ST140917D1-1
EndCAL: NA

Page 5 of 5

| Name | Resp | RA | RRF | RT | RRT | Conc | Q | noise | Fac | DL | Name | Conc | EMPC | Qual | noise | DL |
|---------------------|-------------------------|----------|--------|-------------|-------|---------|--------|-------|-----|--------|---------------------|--------|--------|------|-------|--------|
| 2,3,7,8-TCDD | * | * n | 1.03 | NotF η | * | * | | 295 | 2.5 | 0.0418 | Total Tetra-Dioxins | * | * | | 295 | 0.0418 |
| 1,2,3,7,8-PeCDD | * | * n | 0.84 | NotF η | * | * | | 788 | 2.5 | 0.0860 | Total Penta-Dioxins | * | * | | 1370 | 0.149 |
| 1,2,3,4,7,8-HxCDD | * | * n | 1.05 | NotF η | * | * | | 359 | 2.5 | 0.0736 | Total Hexa-Dioxins | * | * | | 549 | 0.116 |
| 1,2,3,6,7,8-HxCDD | * | * n | 1.04 | NotF η | * | * | | 359 | 2.5 | 0.0750 | Total Hepta-Dioxins | 0.0942 | 0.0942 | | * | * |
| 1,2,3,7,8,9-HxCDD | * | * n | 0.90 | NotF η | * | * | | 359 | 2.5 | 0.0796 | Total Tetra-Furans | * | * | | 651 | 0.0820 |
| 1,2,3,4,6,7,8-HpCDD | * | * n | 1.01 | NotF η | * | * | | 1130 | 2.5 | 0.263 | Total Penta-Furans | 0.0000 | 0.0000 | | 452 | 0.0505 |
| OCDD | 1.65e+04 | 0.77 y | 1.04 | 42:07 | 1.000 | 0.22215 | * | * | 2.5 | * | Total Hexa-Furans | * | * | | 424 | 0.0366 |
| | | | | | | | | | | | Total Hepta-Furans | * | * | | 654 | 0.0657 |
| 2,3,7,8-TCDF | * | * n | 0.91 | NotF η | * | * | | 651 | 2.5 | 0.0820 | | | | | | |
| 1,2,3,7,8-PeCDF | * | * n | 0.97 | NotF η | * | * | | 323 | 2.5 | 0.0379 | | | | | | |
| 2,3,4,7,8-PeCDF | * | * n | 0.94 | NotF η | * | * | | 323 | 2.5 | 0.0344 | | | | | | |
| 1,2,3,4,7,8-HxCDF | * | * n | 1.32 | NotF η | * | * | | 424 | 2.5 | 0.0285 | | | | | | |
| 1,2,3,6,7,8-HxCDF | * | * n | 1.18 | NotF η | * | * | | 424 | 2.5 | 0.0345 | | | | | | |
| 2,3,4,6,7,8-HxCDF | * | * n | 1.23 | NotF η | * | * | | 289 | 2.5 | 0.0252 | | | | | | |
| 1,2,3,7,8,9-HxCDF | * | * n | 1.13 | NotF η | * | * | | 289 | 2.5 | 0.0337 | | | | | | |
| 1,2,3,4,6,7,8-HpCDF | * | * n | 1.57 | NotF η | * | * | | 654 | 2.5 | 0.0672 | | | | | | |
| 1,2,3,4,7,8,9-HpCDF | * | * n | 1.50 | NotF η | * | * | | 345 | 2.5 | 0.0339 | | | | | | |
| OCDF | * | * n | 1.05 | NotF η | * | * | | 1120 | 2.5 | 0.244 | | | | | | |
| IS | 13C-2,3,7,8-TCDD | 2.20e+07 | 0.81 y | 1.06 | 27:03 | 1.021 | 177.92 | | | | Rec | Qual | | | | |
| IS | 13C-1,2,3,7,8-PeCDD | 2.63e+07 | 0.63 y | 1.08 | 31:32 | 1.190 | 208.76 | | | | 89.0 | | | | | |
| IS | 13C-1,2,3,4,7,8-HxCDD | 1.88e+07 | 1.28 y | 0.74 | 34:53 | 1.014 | 192.29 | | | | 104 | | | | | |
| IS | 13C-1,2,3,6,7,8-HxCDD | 1.88e+07 | 1.29 y | 0.75 | 34:60 | 1.017 | 190.33 | | | | 96.1 | | | | | |
| IS | 13C-1,2,3,7,8,9-HxCDD | 2.21e+07 | 1.29 y | 0.89 | 35:18 | 1.026 | 188.41 | | | | 95.2 | | | | | |
| IS | 13C-1,2,3,4,6,7,8-HpCDD | 1.65e+07 | 1.07 y | 0.70 | 38:45 | 1.126 | 177.68 | | | | 94.2 | | | | | |
| IS | 13C-OCDD | 2.85e+07 | 0.89 y | 0.59 | 42:06 | 1.224 | 366.29 | | | | 88.8 | | | | | |
| IS | 13C-2,3,7,8-TCDF | 3.09e+07 | 0.76 y | 0.97 | 26:17 | 0.992 | 179.82 | | | | 91.6 | | | | | |
| IS | 13C-1,2,3,7,8-PeCDF | 3.31e+07 | 1.56 y | 0.99 | 30:22 | 1.146 | 188.45 | | | | 89.9 | | | | | |
| IS | 13C-2,3,4,7,8-PeCDF | 3.56e+07 | 1.57 y | 1.01 | 31:15 | 1.179 | 198.70 | | | | 94.2 | | | | | |
| IS | 13C-1,2,3,4,7,8-HxCDF | 2.69e+07 | 0.52 y | 0.94 | 33:59 | 0.988 | 216.70 | | | | 99.3 | | | | | |
| IS | 13C-1,2,3,6,7,8-HxCDF | 2.79e+07 | 0.51 y | 1.23 | 34:07 | 0.991 | 172.46 | | | | 108 | | | | | |
| IS | 13C-2,3,4,6,7,8-HxCDF | 2.52e+07 | 0.52 y | 1.03 | 34:43 | 1.009 | 185.23 | | | | 86.2 | | | | | |
| IS | 13C-1,2,3,7,8,9-HxCDF | 2.25e+07 | 0.52 y | 0.89 | 35:41 | 1.037 | 192.35 | | | | 92.6 | | | | | |
| IS | 13C-1,2,3,4,6,7,8-HpCDF | 1.82e+07 | 0.44 y | 0.71 | 37:34 | 1.092 | 195.37 | | | | 96.2 | | | | | |
| IS | 13C-1,2,3,4,7,8,9-HpCDF | 1.80e+07 | 0.43 y | 0.64 | 39:18 | 1.142 | 211.97 | | | | 97.7 | | | | | |
| IS | 13C-OCDF | 3.72e+07 | 0.89 y | 0.76 | 42:20 | 1.230 | 371.65 | | | | 106 | | | | | |
| C/Up | 37Cl-2,3,7,8-TCDD | 8.53e+06 | | 1.04 | 27:05 | 1.021 | 70.316 | | | | 92.9 | | | | | |
| RS/RT | 13C-1,2,3,4-TCDD | 2.32e+07 | 0.79 y | 1.00 | 26:31 | * | 200.00 | | | | | | | | | |
| RS | 13C-1,2,3,4-TCDF | 3.55e+07 | 0.76 y | 1.00 | 25:06 | * | 200.00 | | | | | | | | | |
| RS/RT | 13C-1,2,3,4,6,9-HxCDF | 2.64e+07 | 0.53 y | 1.00 | 34:24 | * | 200.00 | | | | | | | | | |

Integrations
by
Analyst: ms
Date: 9/18/14
Reviewed
by
Analyst: [Signature]
Date: 9/19/14

Totals class: HpCDD EMPC

Entry #: 25

Run: 11 File: 140917D1 S: 8 I: 1 F: 4

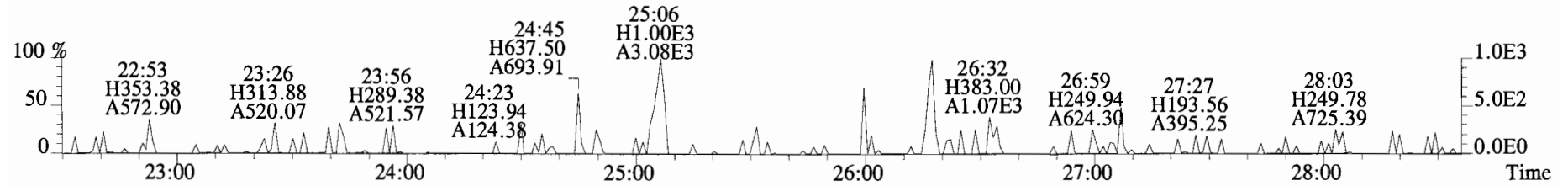
Acquired: 17-SEP-14 18:50:05 Processed: 18-SEP-14 09:39:42

Total Concentration: 0.094243

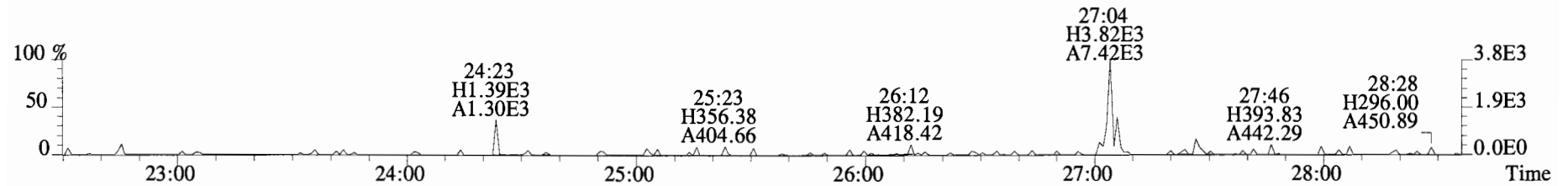
Unnamed Concentration: 0.094

| RT | m1 Resp | m2 Resp | RA | Resp Concentration | Name |
|-------|-----------|-----------|--------|--------------------|----------|
| 37:56 | 4.101e+03 | 3.730e+03 | 1.10 y | 7.831e+03 | 0.094243 |

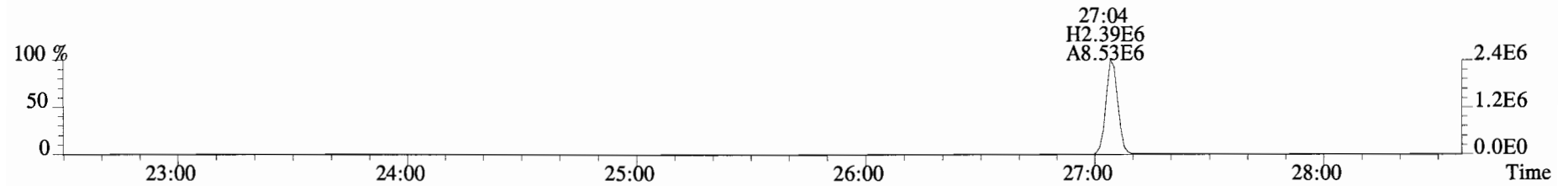
File:140917D1 #1-551 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B410053-BLK1 Method Blank 10 Exp:OCDD_DB5
319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



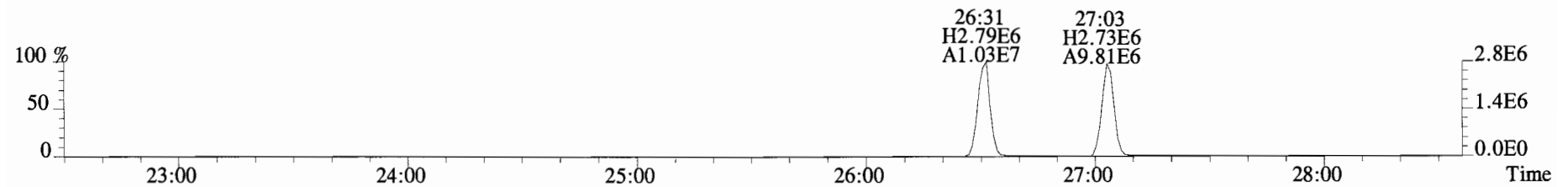
321.8936 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



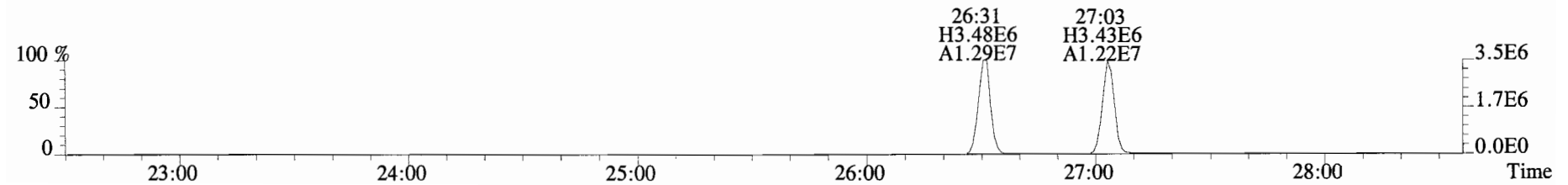
327.8847 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



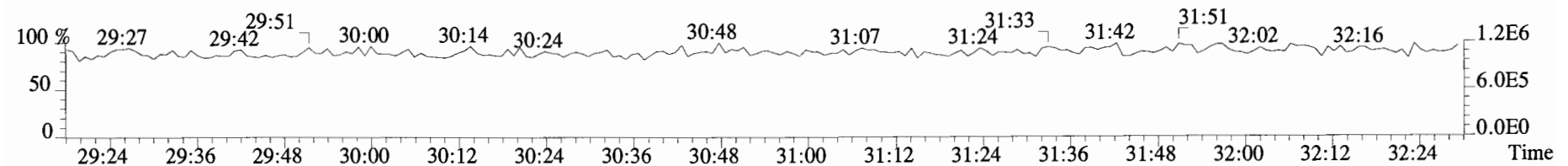
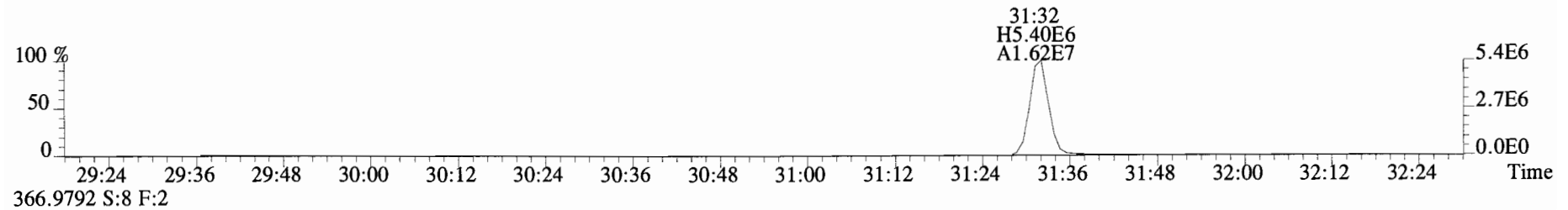
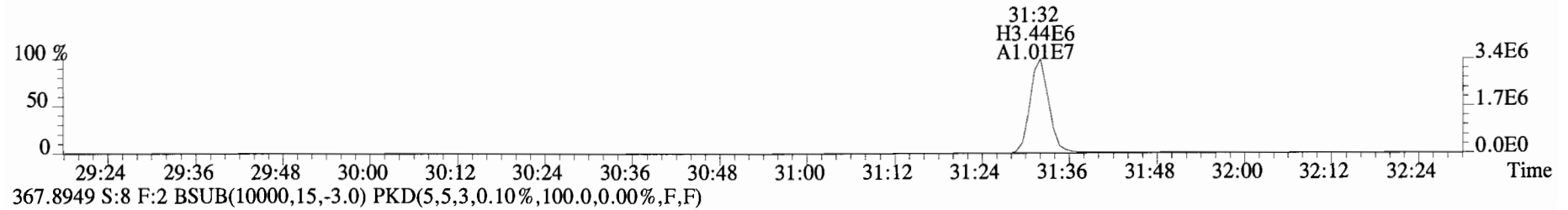
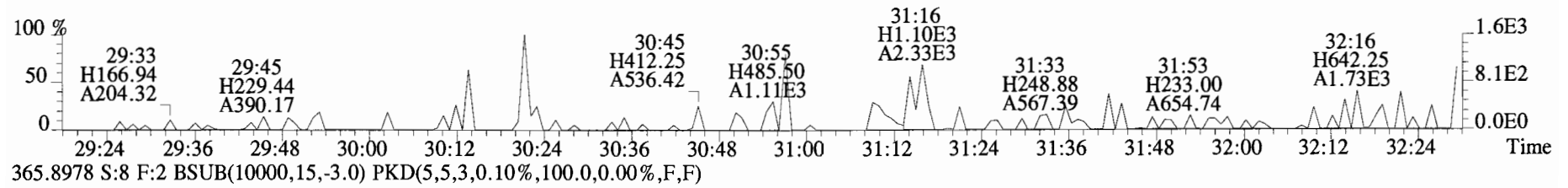
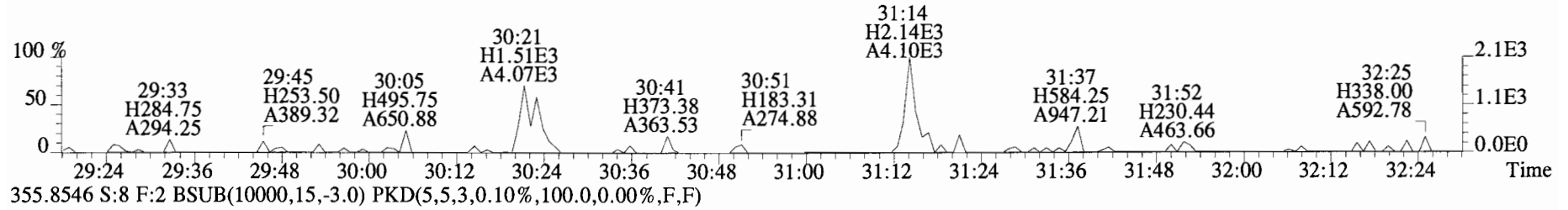
331.9368 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



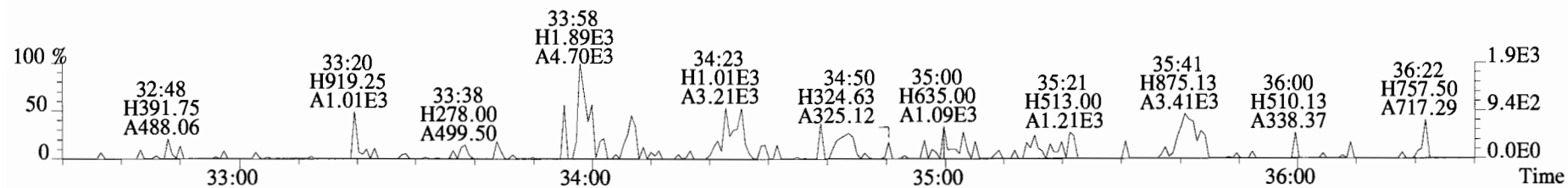
333.9339 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



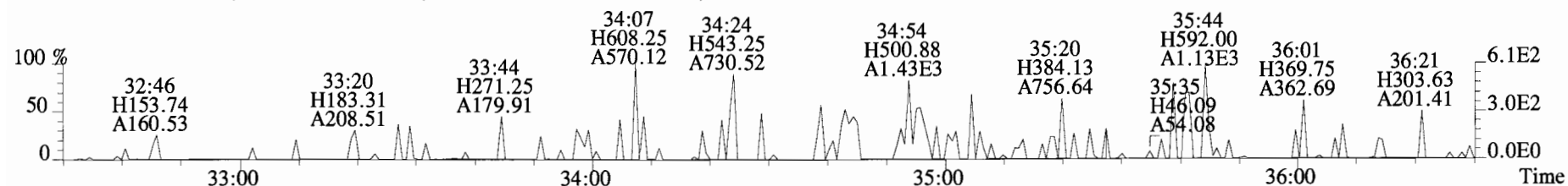
File:140917D1 #1-256 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BLK1 Method Blank 10 Exp:OCDD_DB5
353.8576 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



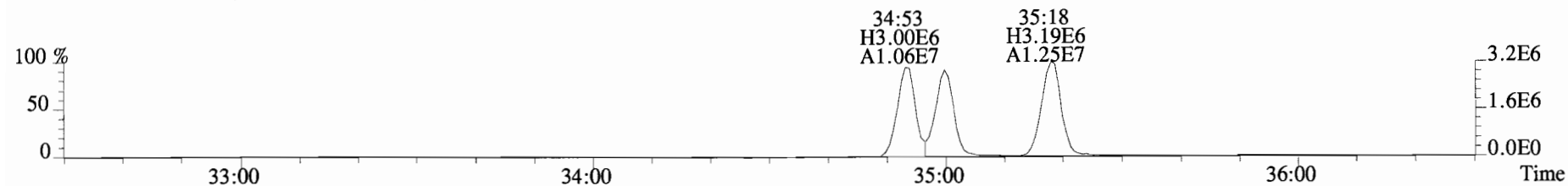
File:140917D1 #1-385 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B410053-BLK1 Method Blank 10 Exp:OCDD_DB5
389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



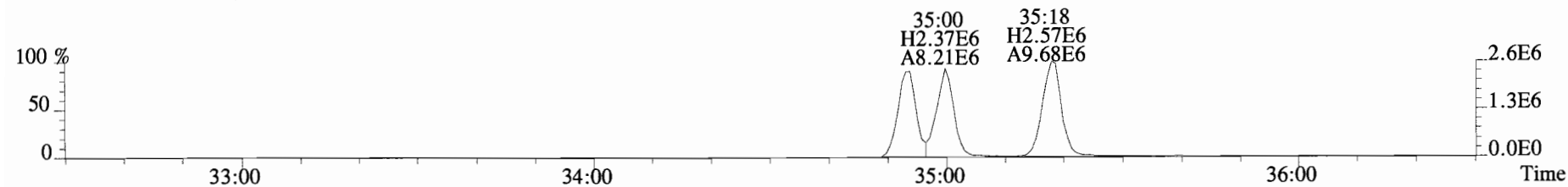
391.8127 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



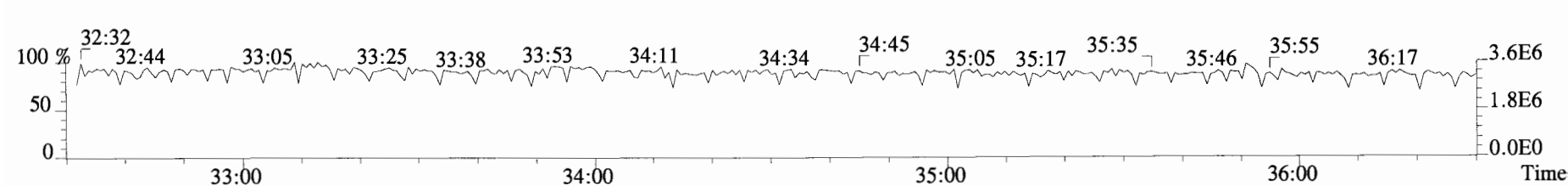
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



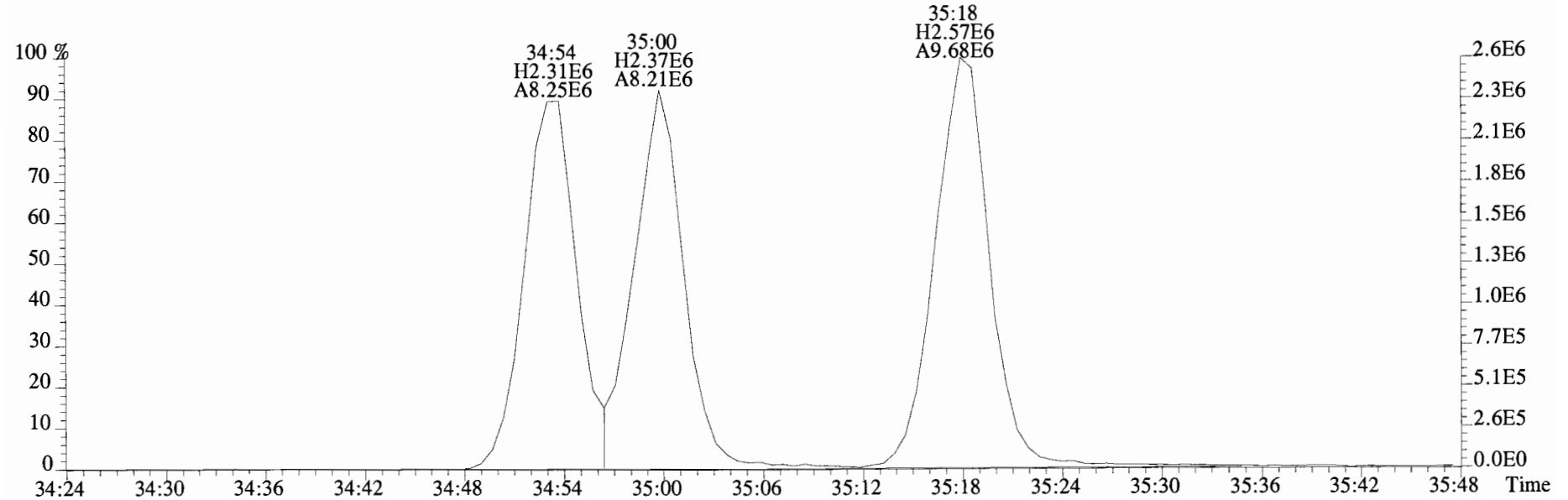
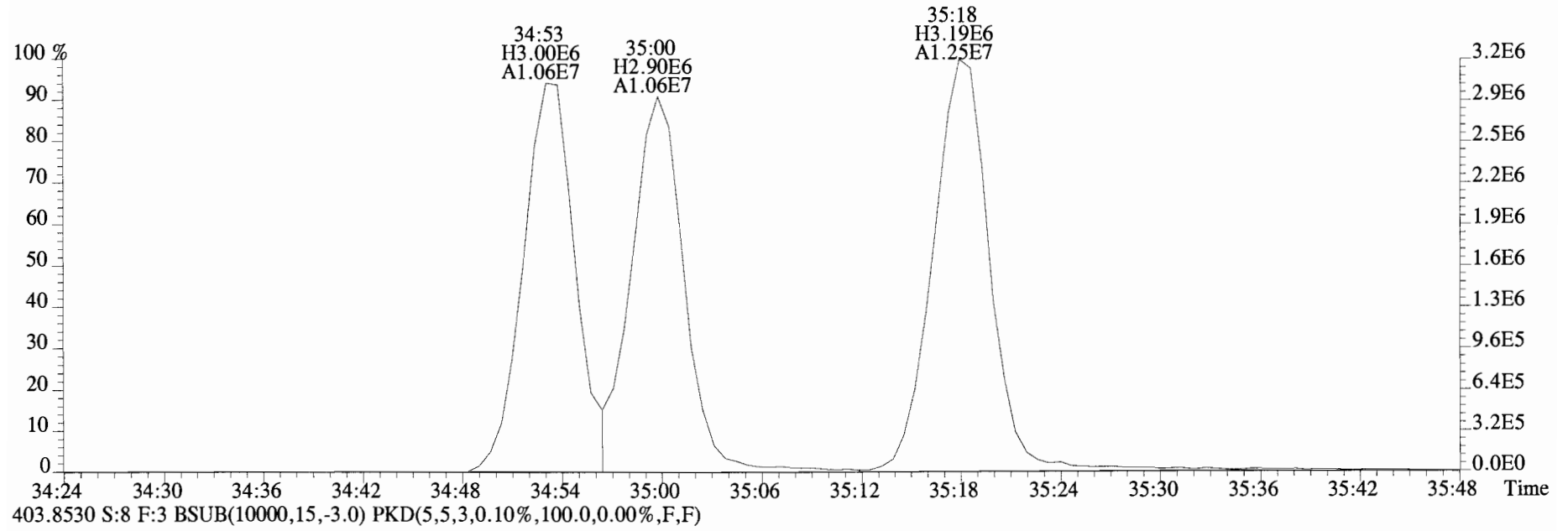
403.8530 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



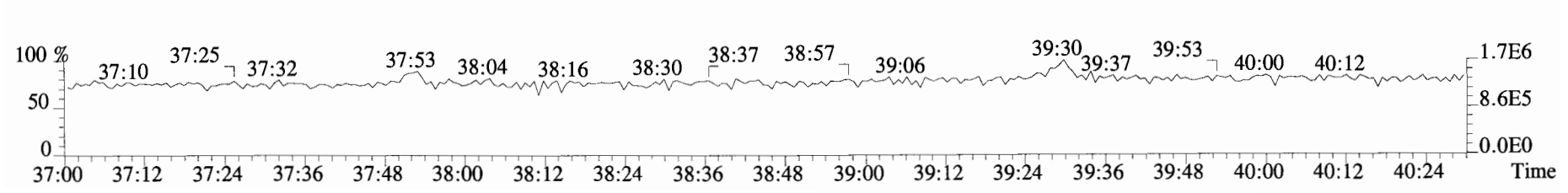
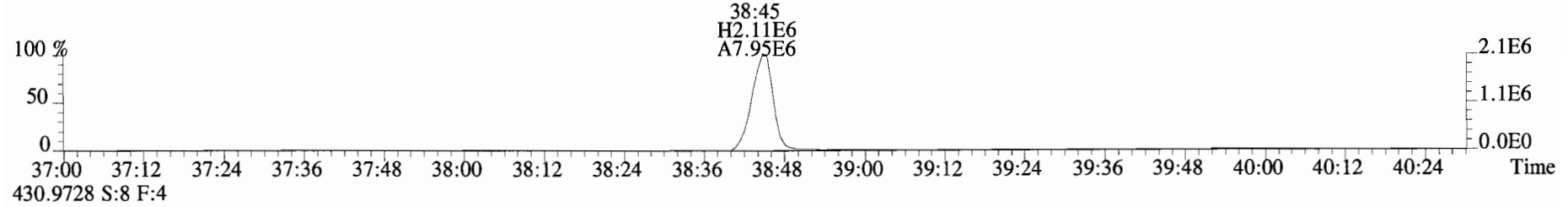
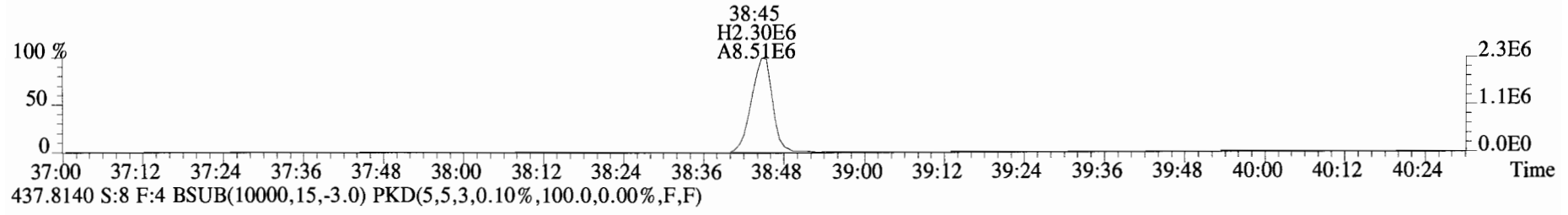
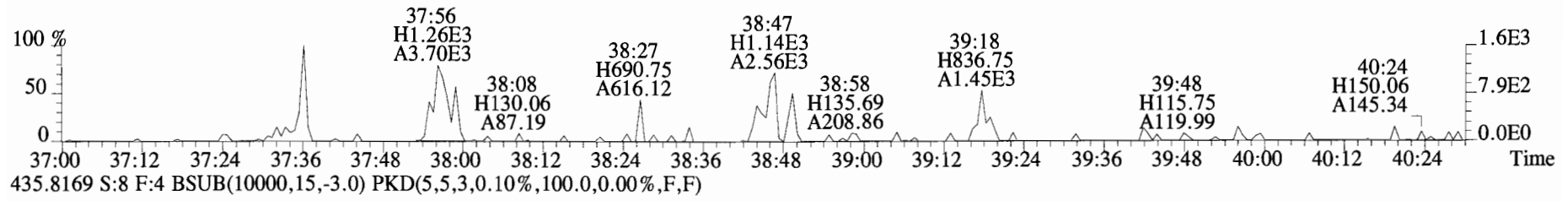
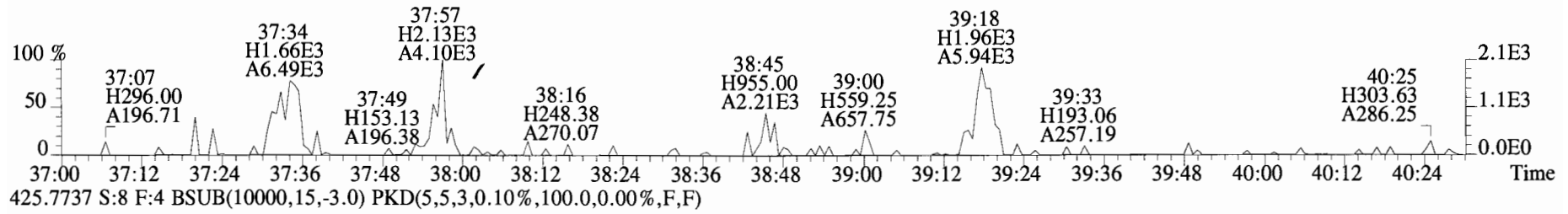
380.9760 S:8 F:3



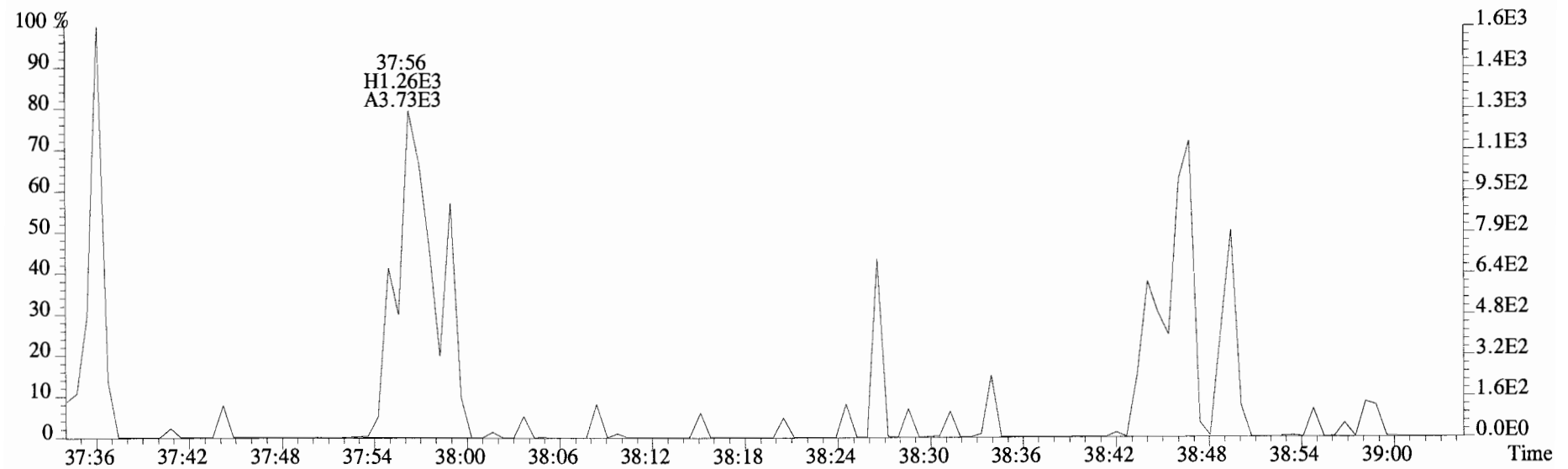
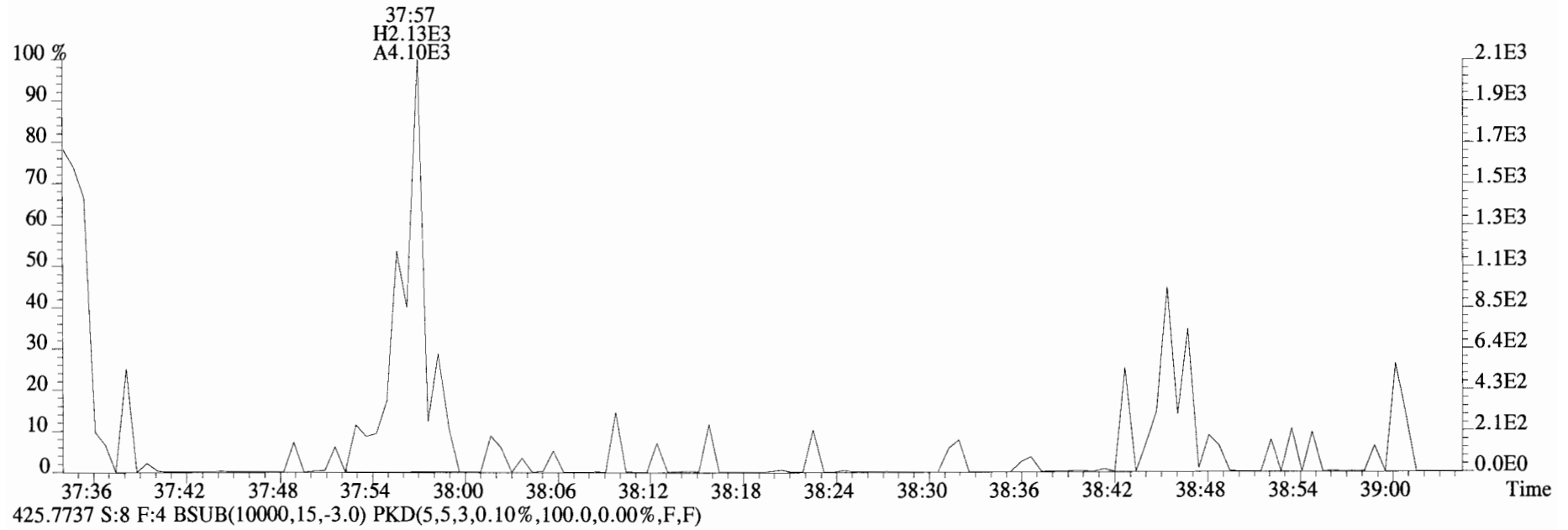
File:140917D1 #1-385 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B410053-BLK1 Method Blank 10 Exp:OCDD_DB5
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



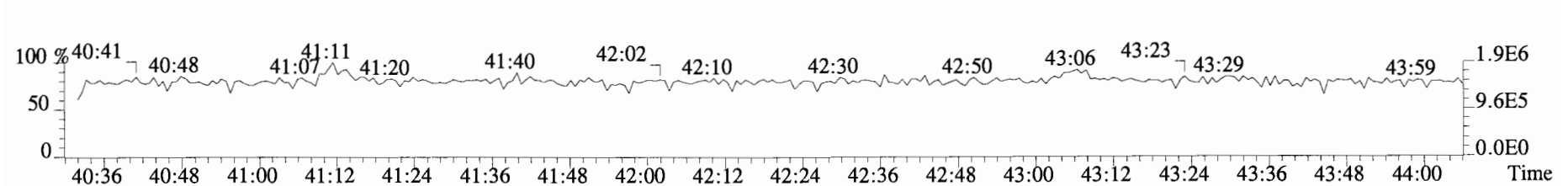
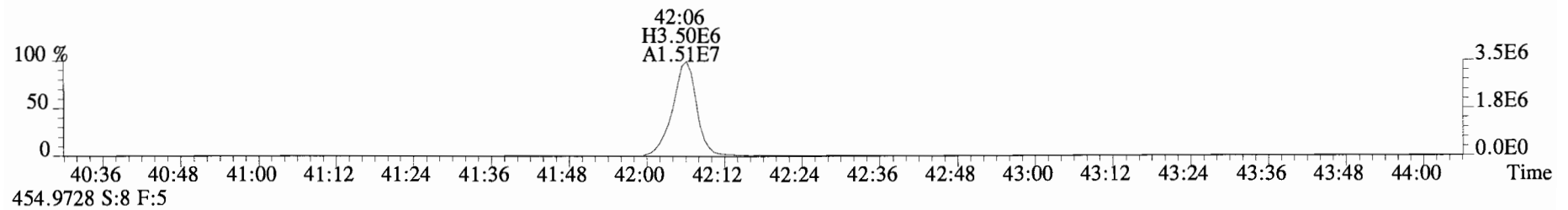
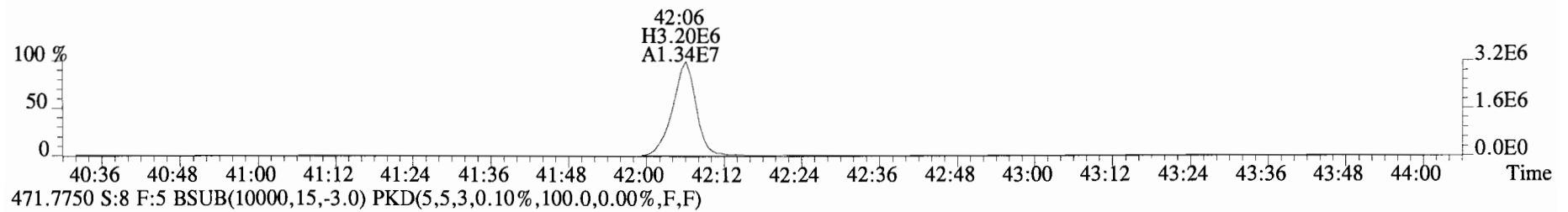
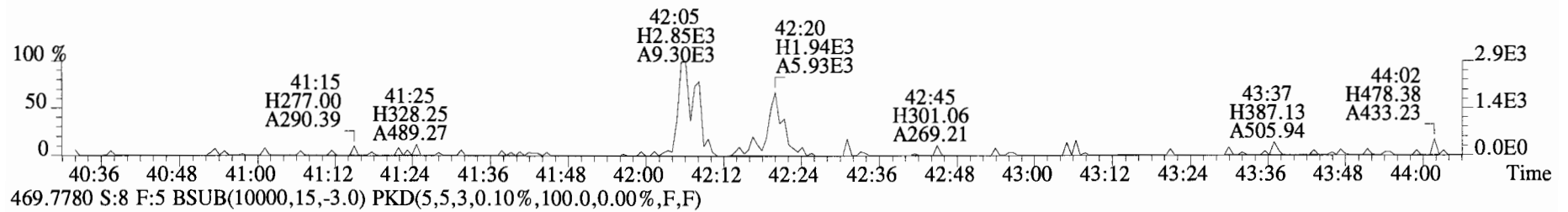
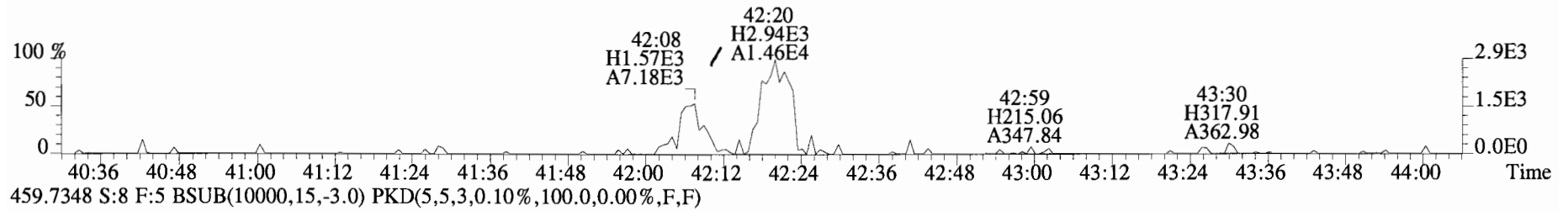
File:140917D1 #1-326 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B410053-BLK1 Method Blank 10 Exp:OCDD_DB5
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



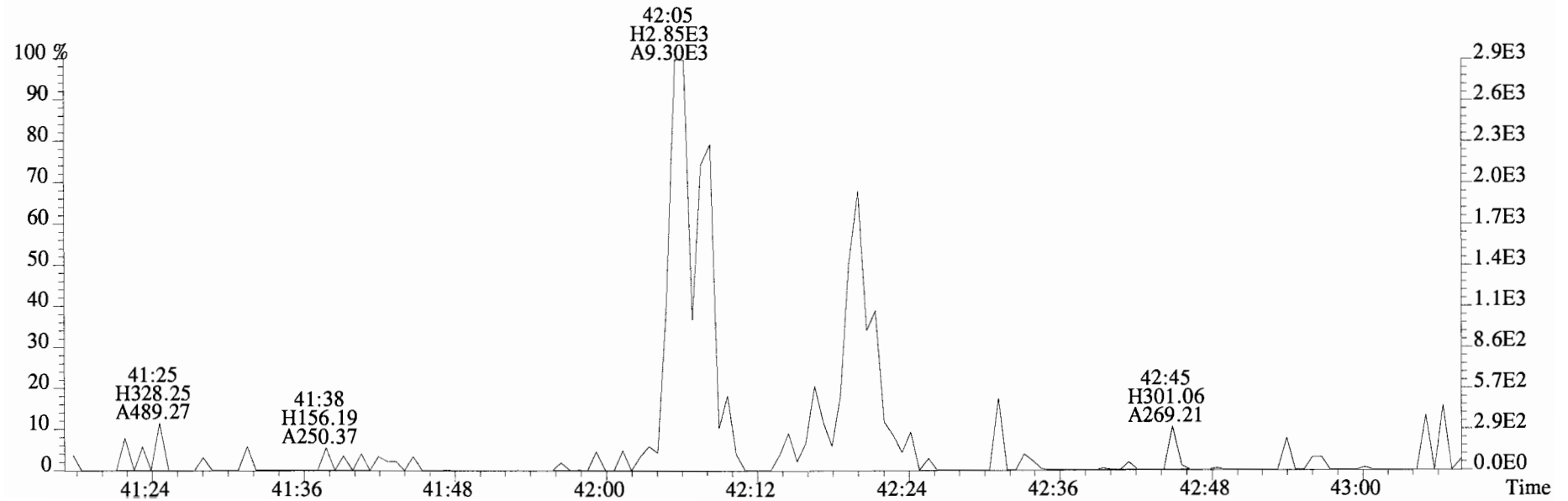
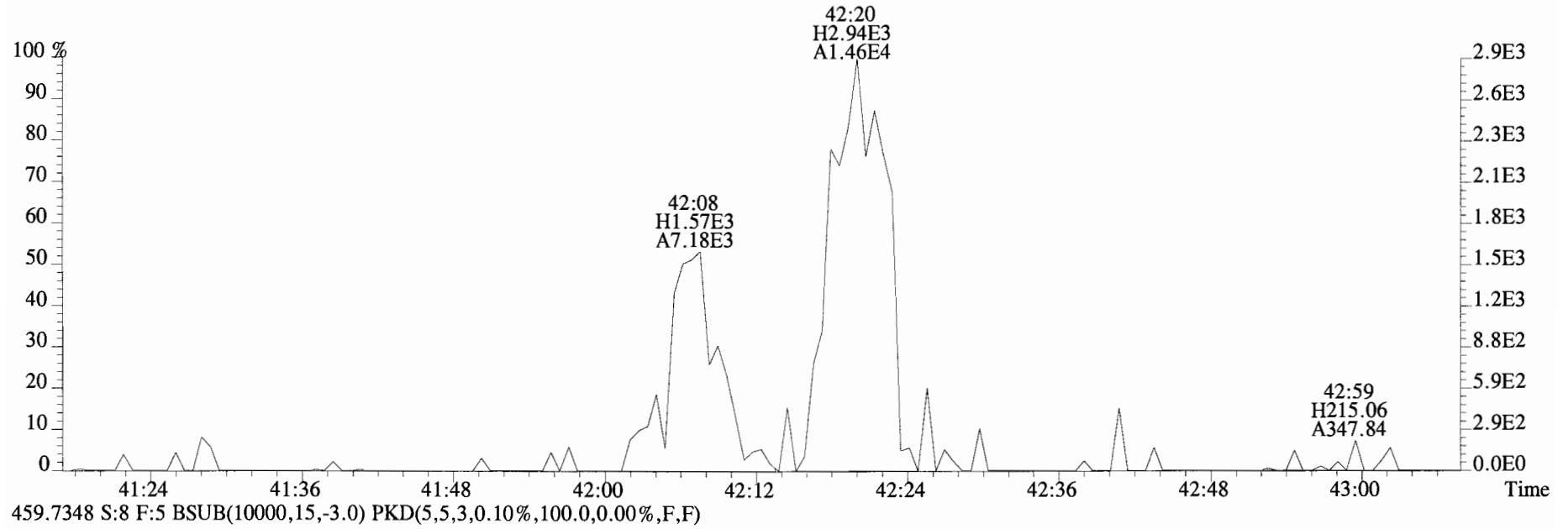
File:140917D1 #1-326 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BLK1 Method Blank 10 Exp:OCDD_DB5
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



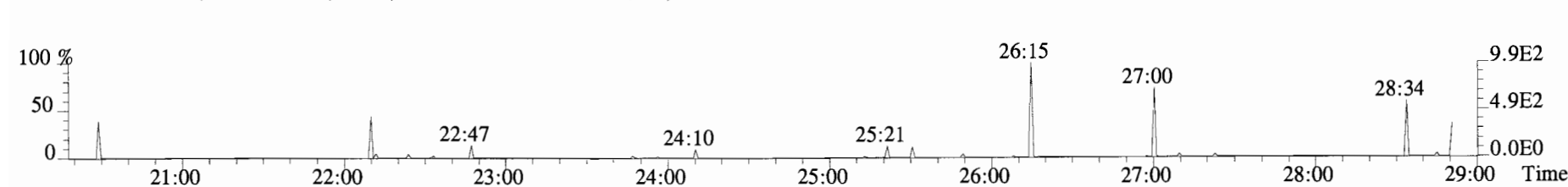
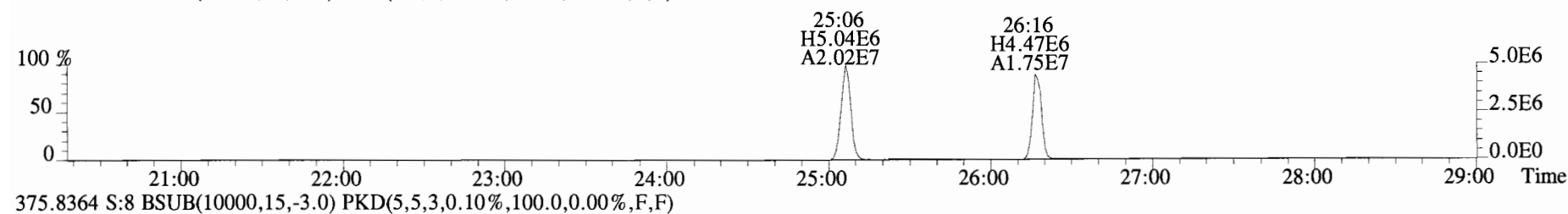
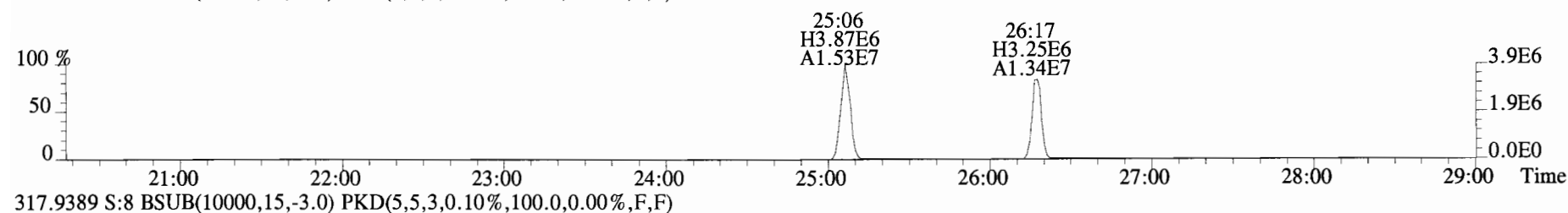
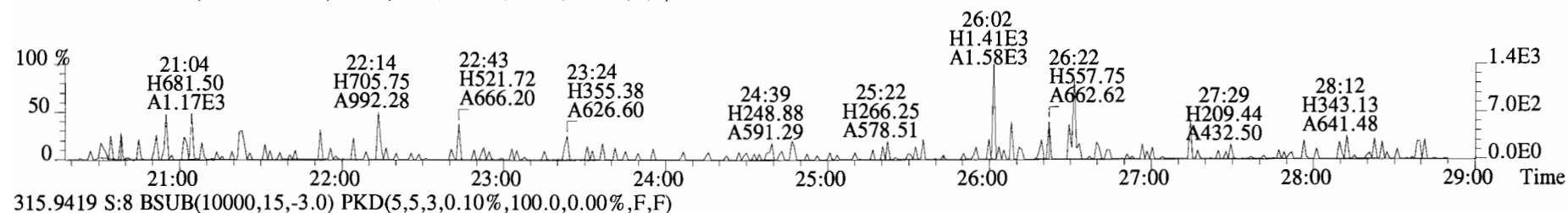
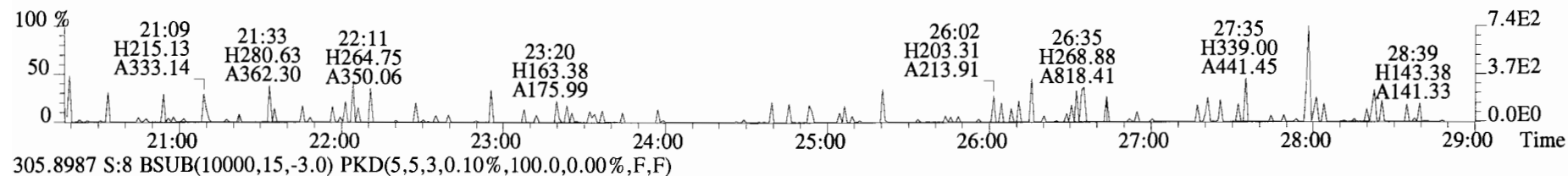
File:140917D1 #1-389 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BLK1 Method Blank 10 Exp:OCDD_DB5
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



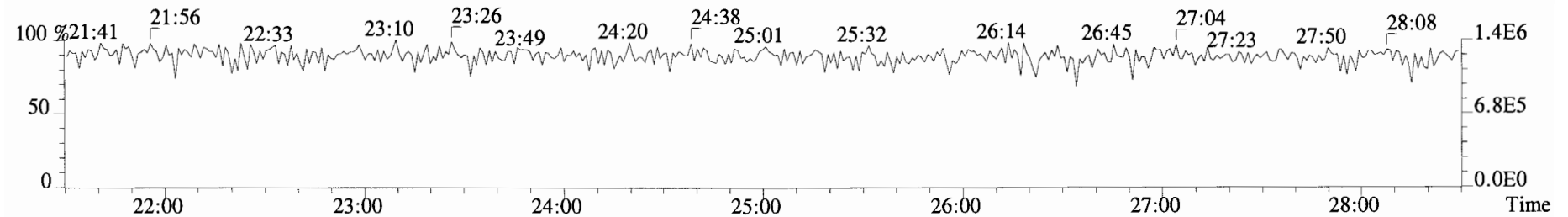
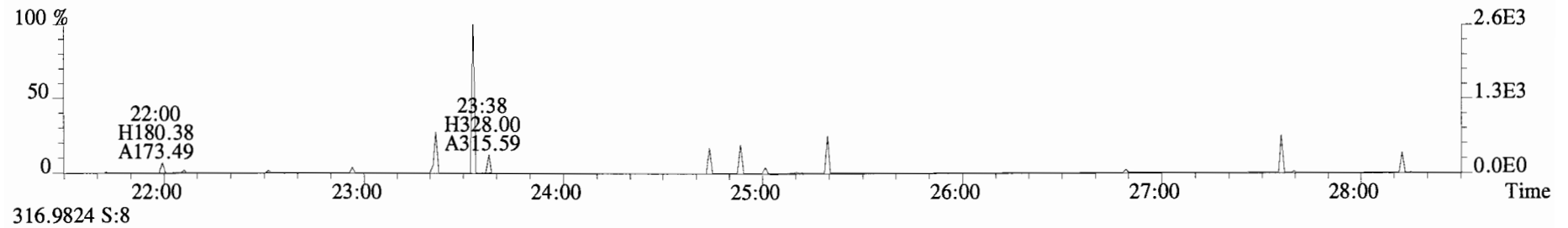
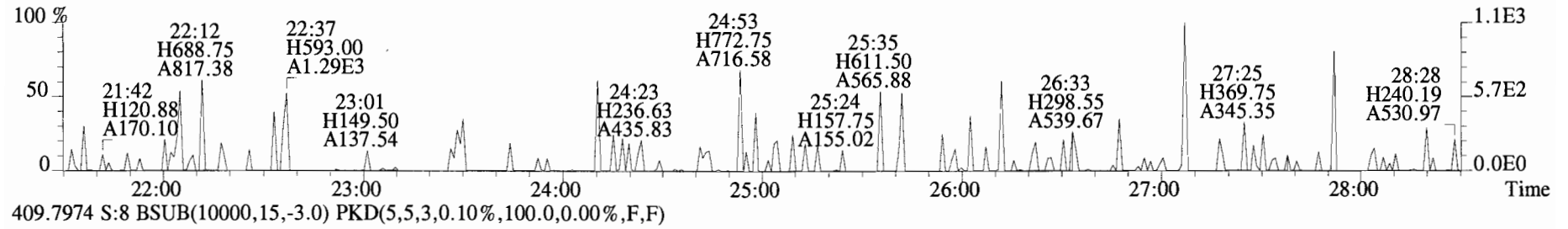
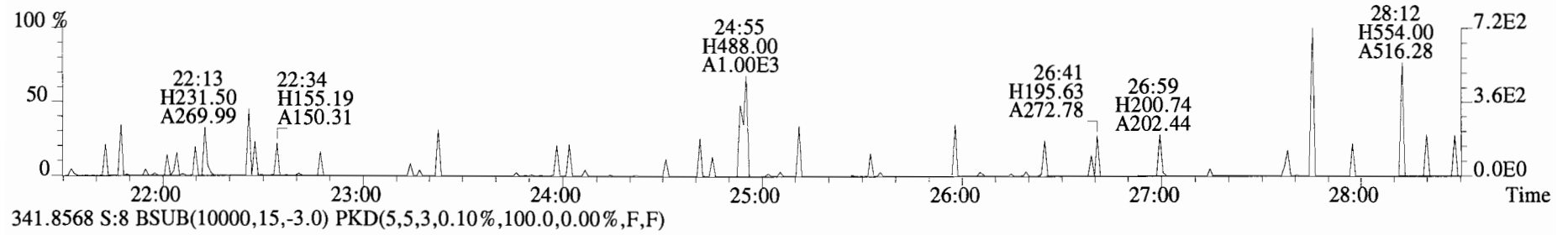
File:140917D1 #1-389 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BLK1 Method Blank 10 Exp:OCDD_DB5
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



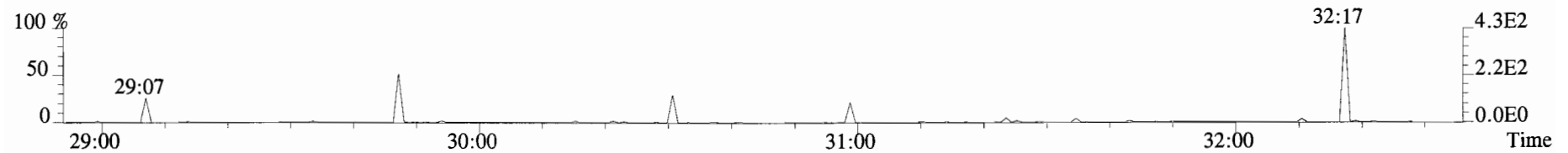
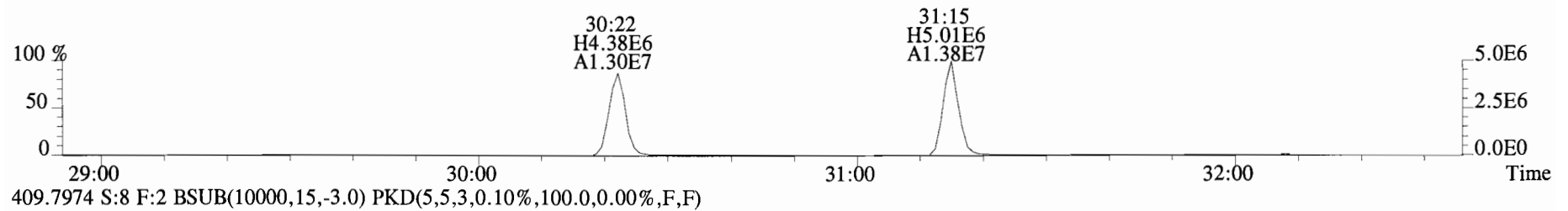
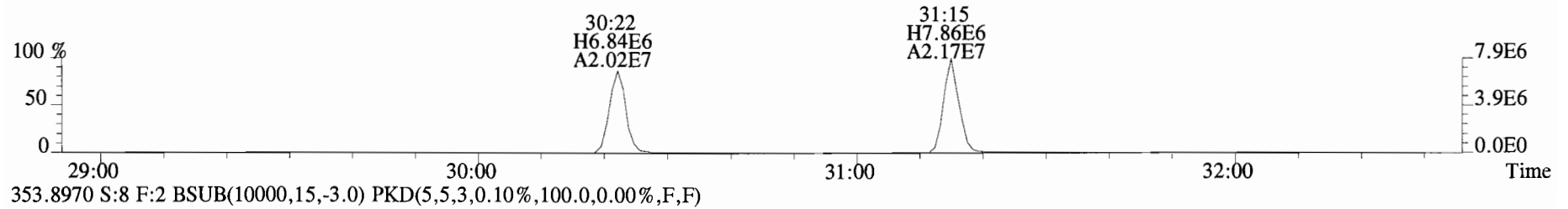
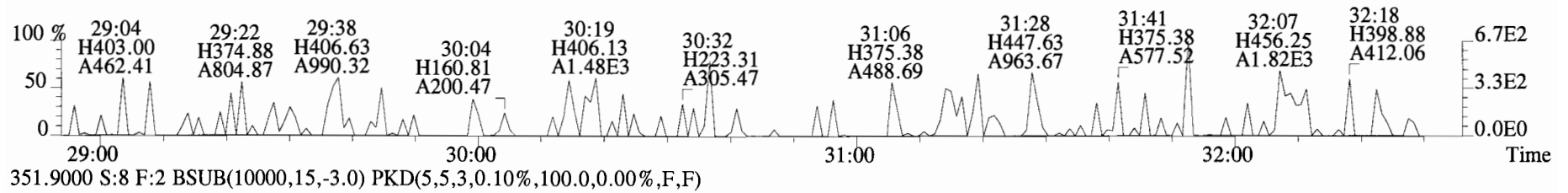
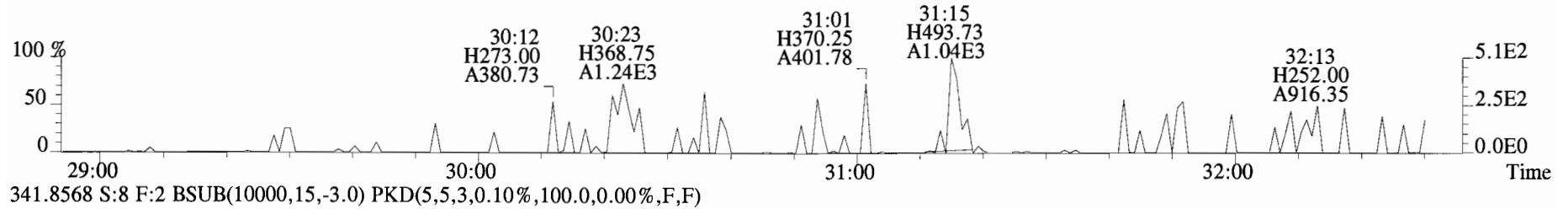
File:140917D1 #1-551 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BLK1 Method Blank 10 Exp:OCDD_DB5
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



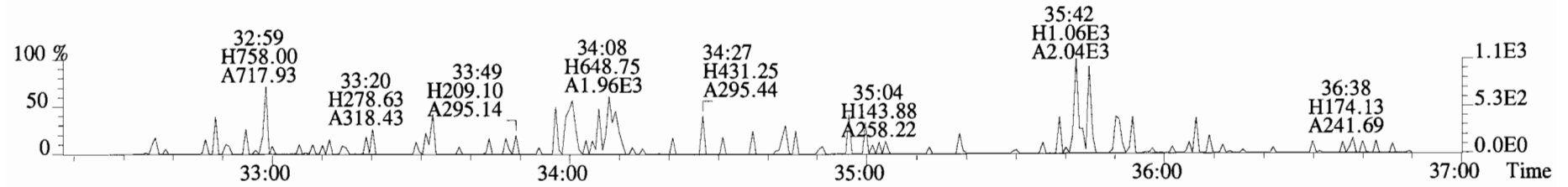
File:140917D1 #1-551 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BLK1 Method Blank 10 Exp:OCDD_DB5
339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



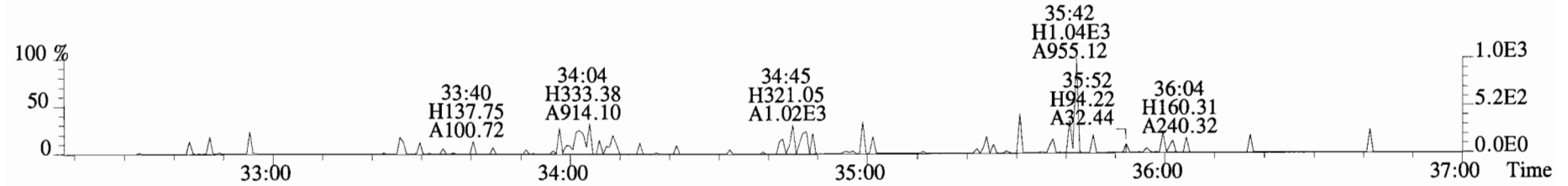
File:140917D1 #1-256 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B410053-BLK1 Method Blank 10 Exp:OCDD_DB5
 339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



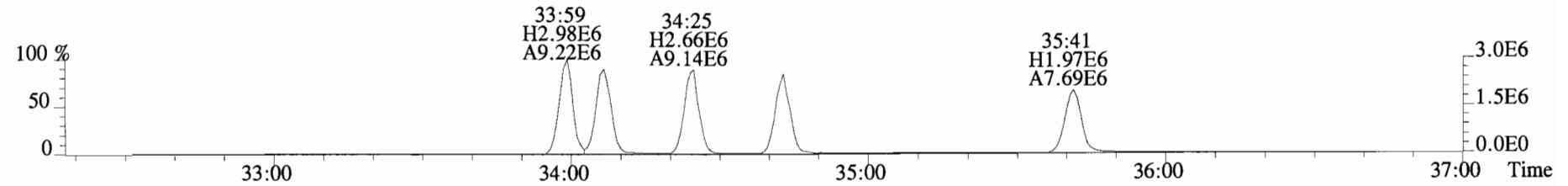
File:140917D1 #1-385 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B410053-BLK1 Method Blank 10 Exp:OCDD_DB5
373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



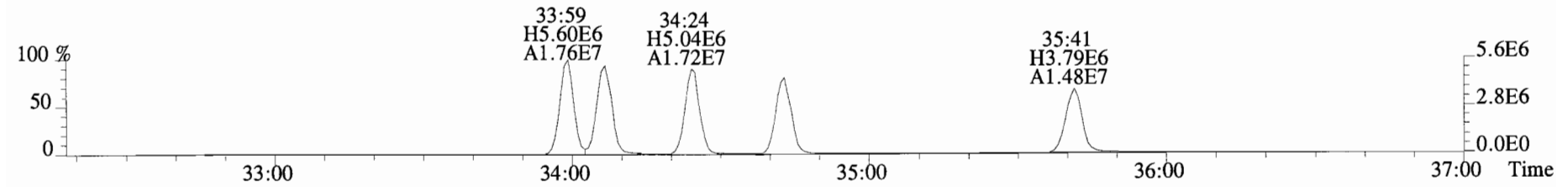
375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



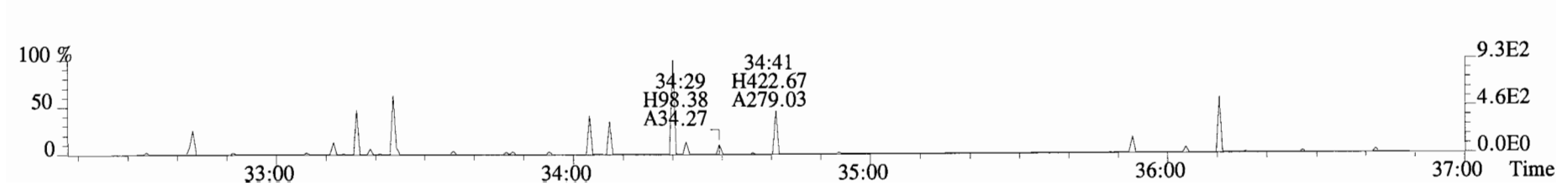
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



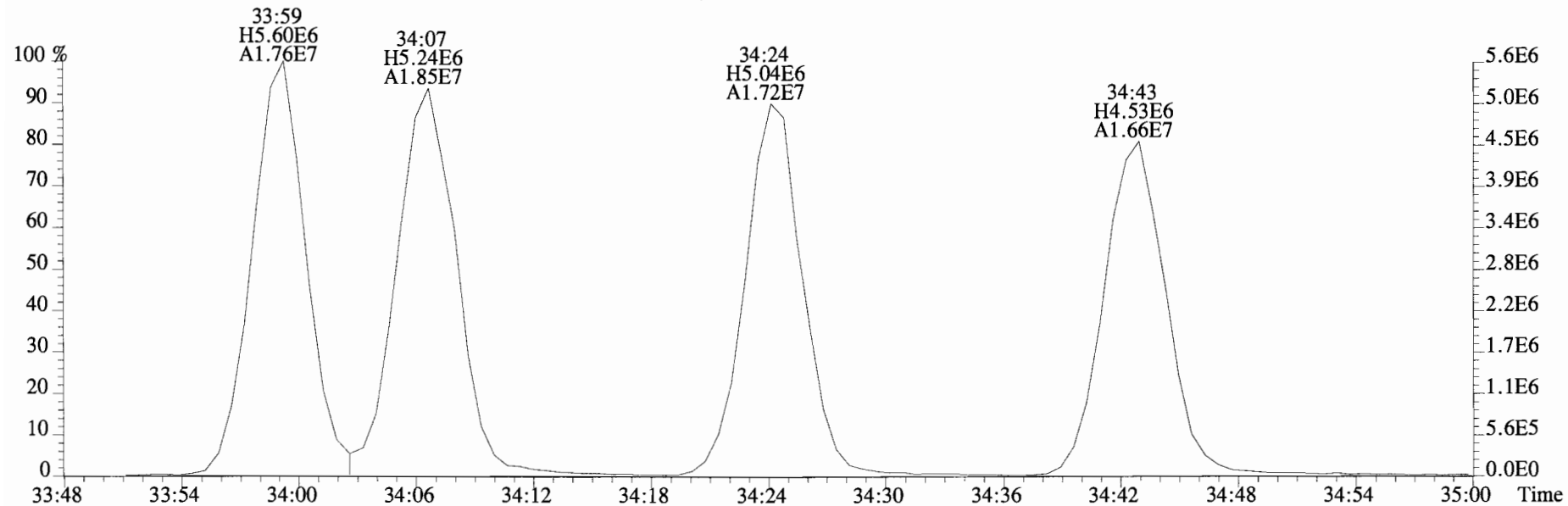
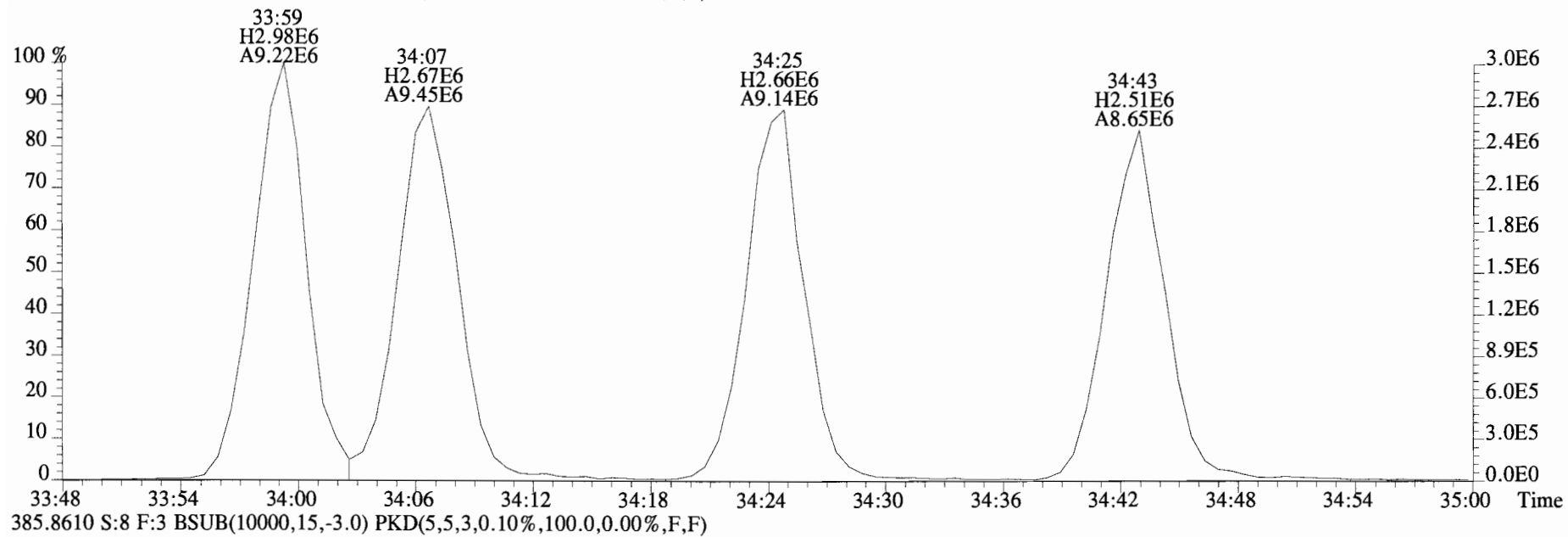
385.8610 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



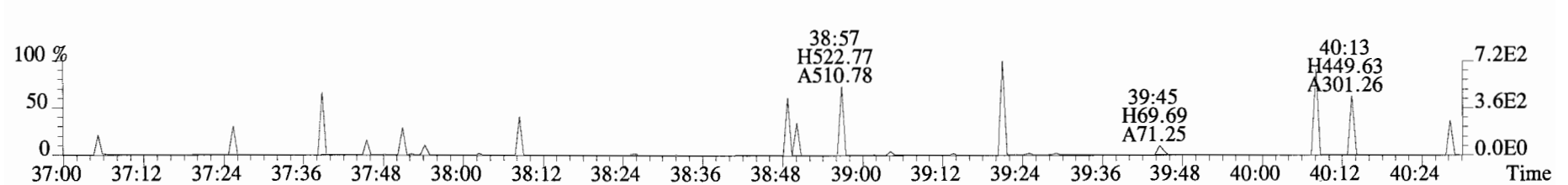
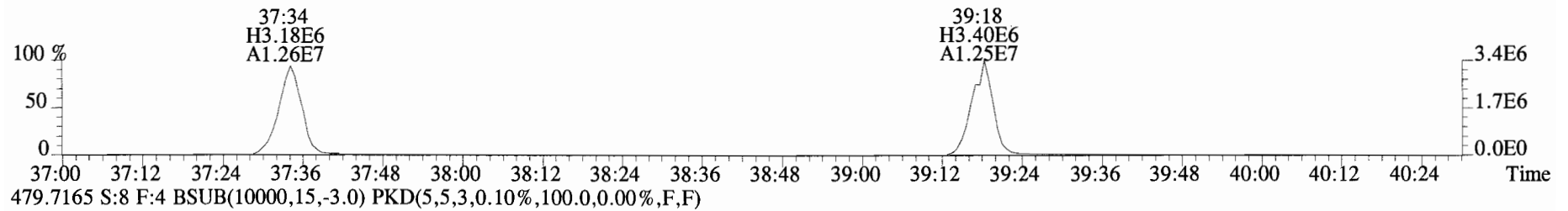
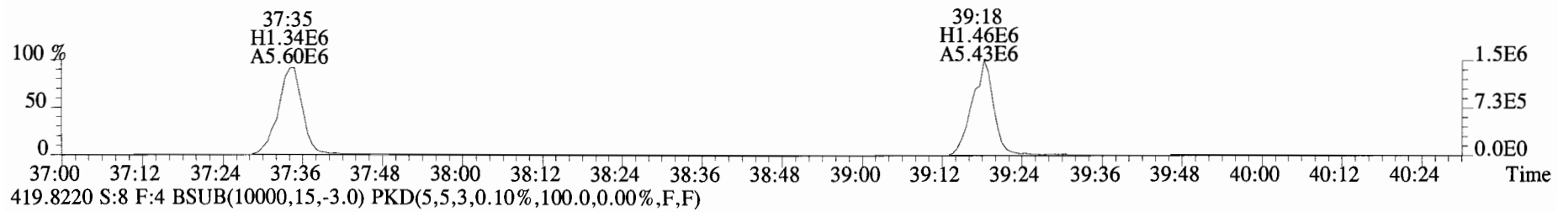
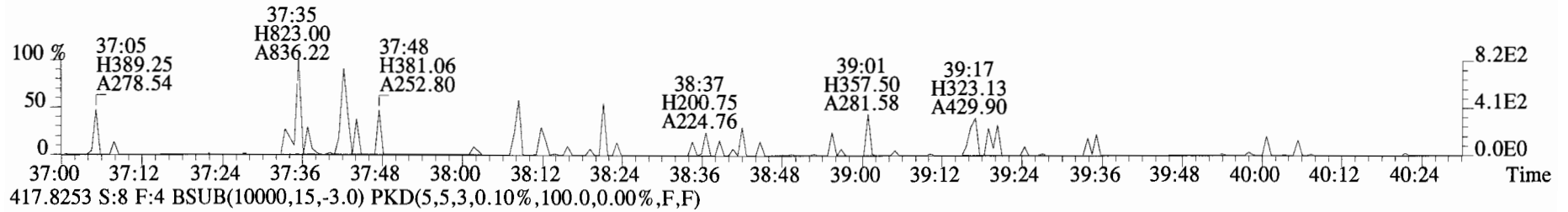
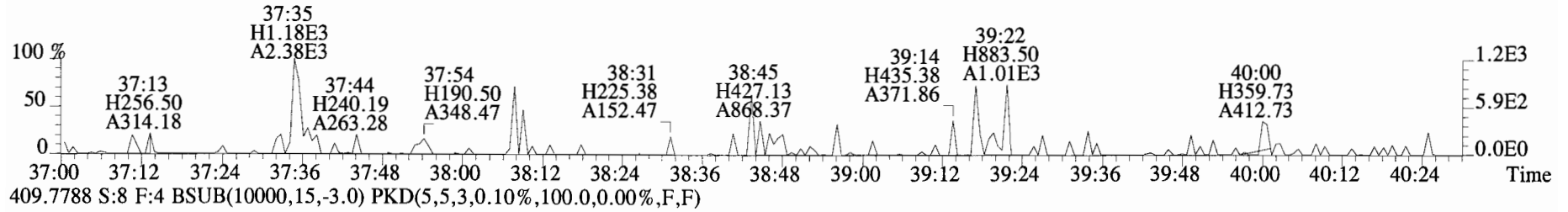
445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



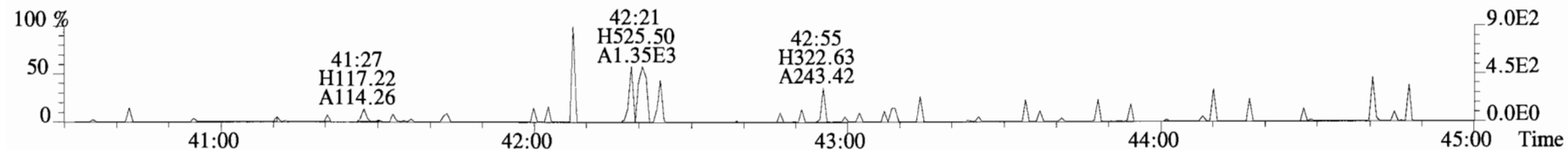
File:140917D1 #1-385 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text: Vista Analytical Laboratory VG-7 Text:B4I0053-BLK1 Method Blank 10 Exp:OCDD_DB5
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



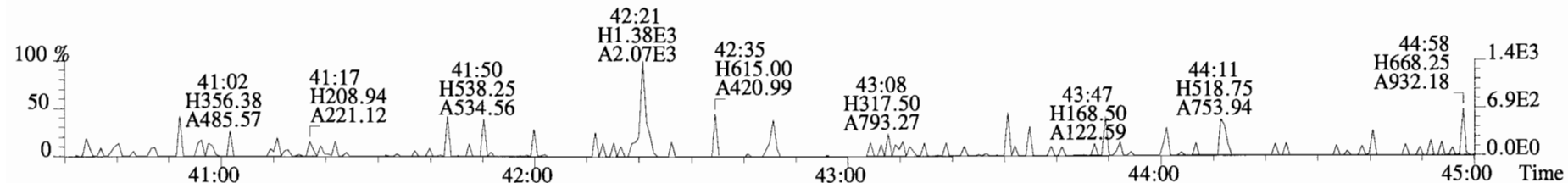
File:140917D1 #1-326 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BLK1 Method Blank 10 Exp:OCDD_DB5
407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



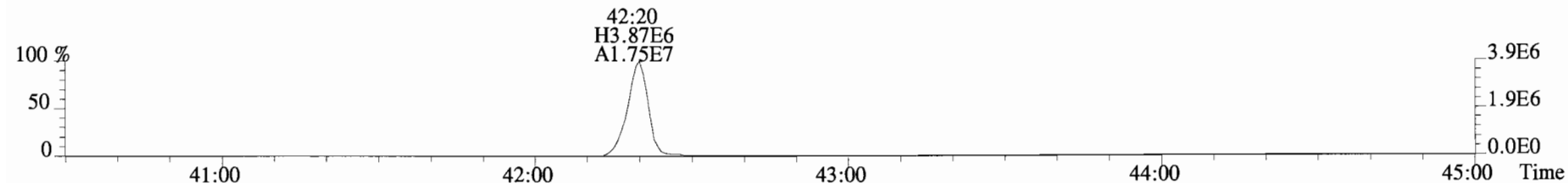
File:140917D1 #1-389 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BLK1 Method Blank 10 Exp:OCDD_DB5
441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



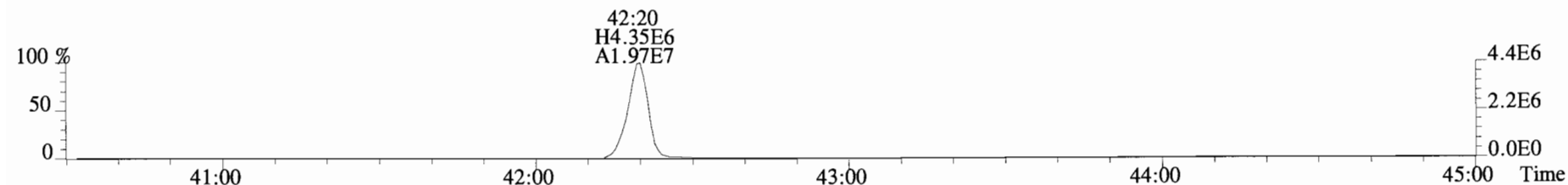
443.7398 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



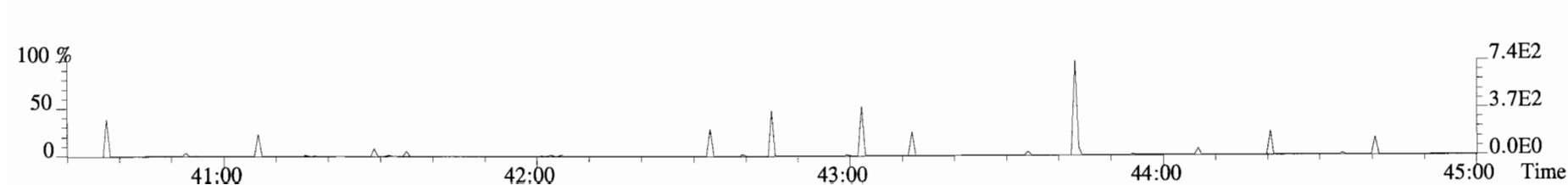
453.7831 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:8 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: B4I0053-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): SOLID OPR Data Filename: 140917D1-5

Ext. Date: 9-16-14 Shift: Day Analysis Date: 17-SEP-14 Time: 16:25:00

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 | 9.66 | 6.7 - 15.8 7.3 - 14.6 (2) |
| 1,2,3,7,8-PeCDD | 50 | 48.0 | 35.0 - 71.0 |
| 1,2,3,4,7,8-HxCDD | 50 | 46.2 | 35.0 - 82.0 |
| 1,2,3,6,7,8-HxCDD | 50 | 45.6 | 38.0 - 67.0 |
| 1,2,3,7,8,9-HxCDD | 50 | 45.5 | 32.0 - 81.0 |
| 1,2,3,4,6,7,8-HpCDD | 50 | 49.6 | 35.0 - 70.0 |
| OCDD | 100 | 89.8 | 78.0 - 144.0 |
| 2,3,7,8-TCDF | 10 | 9.48 | 7.5 - 15.8 8.0 - 14.7 (2) |
| 1,2,3,7,8-PeCDF | 50 | 48.1 | 40.0 - 67.0 |
| 2,3,4,7,8-PeCDF | 50 | 48.3 | 34.0 - 80.0 |
| 1,2,3,4,7,8-HxCDF | 50 | 46.4 | 36.0 - 67.0 |
| 1,2,3,6,7,8-HxCDF | 50 | 46.4 | 42.0 - 65.0 |
| 2,3,4,6,7,8-HxCDF | 50 | 45.6 | 35.0 - 78.0 |
| 1,2,3,7,8,9-HxCDF | 50 | 46.5 | 39.0 - 65.0 |
| 1,2,3,4,6,7,8-HpCDF | 50 | 44.1 | 41.0 - 61.0 |
| 1,2,3,4,7,8,9-HpCDF | 50 | 42.8 | 39.0 - 69.0 |
| OCDF | 100 | 93.2 | 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. 10/94Analyst: m Date: 9/17/14

FORM 8B

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory Extraction Batch: B4I0053-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): SOLID OPR Data Filename: 140917D1-5

Ext. Date: 9-16-14 Shift: Day Analysis Date: 17-SEP-14 Time: 16:25:00

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 | 54.2 | 20.0 - 175.0 25.0 - 141.0 (2) |
| 13C-1,2,3,7,8-PeCDD | 100 | 63.8 | 21.0 - 227.0 |
| 13C-1,2,3,4,7,8-HxCDD | 100 | 57.3 | 21.0 - 193.0 |
| 13C-1,2,3,6,7,8-HxCDD | 100 | 59.8 | 25.0 - 163.0 |
| 13C-1,2,3,7,8,9-HxCDD | 100 | 57.8 | 21.0 - 193.0 |
| 13C-1,2,3,4,6,7,8-HpCDD | 100 | 53.2 | 26.0 - 166.0 |
| 13C-OCDD | 200 | 109 | 26.0 - 397.0 |
| 13C-2,3,7,8-TCDF | 100 | 52.2 | 22.0 - 152.0 26.0 - 126.0 (2) |
| 13C-1,2,3,7,8-PeCDF | 100 | 55.5 | 21.0 - 192.0 |
| 13C-2,3,4,7,8-PeCDF | 100 | 58.1 | 13.0 - 328.0 |
| 13C-1,2,3,4,7,8-HxCDF | 100 | 63.9 | 19.0 - 202.0 |
| 13C-1,2,3,6,7,8-HxCDF | 100 | 53.3 | 21.0 - 159.0 |
| 13C-2,3,4,6,7,8-HxCDF | 100 | 55.2 | 22.0 - 176.0 |
| 13C-1,2,3,7,8,9-HxCDF | 100 | 55.5 | 17.0 - 205.0 |
| 13C-1,2,3,4,6,7,8-HpCDF | 100 | 57.5 | 21.0 - 158.0 |
| 13C-1,2,3,4,7,8,9-HpCDF | 100 | 60.0 | 20.0 - 186.0 |
| 13C-OCDF | 200 | 108 | 26.0 - 397.0 |
| CLEANUP STANDARD | | | |
| 37Cl-2,3,7,8-TCDD | 40 | 22.5 | 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: myDate: 9/18/14

Client ID: OPR
Lab ID: B4I0053-BS1

Filename: 140917D1 S:5 Acq:17-SEP-14 16:25:00
GC Column ID: ZB-5MS ICal: 1613VG7-4-17-14 wt/vol: 1.000

ConCal: ST140917D1-1
EndCAL: NA

| Name | Resp | RA | RRF | RT | RRT | Conc | Q | noise | Fac | DL | Name | Conc | EMPC | Qual | noise | DL |
|-----------------------------|----------|--------|------|-------|-------|--------|---|-------|-----|----|----------------------|--------|--------|------|-------|----|
| 2,3,7,8-TCDD | 1.37e+06 | 0.81 y | 1.03 | 27:06 | 1.001 | 9.6591 | * | 2.5 | * | * | Total Tetra-Dioxins | 9.94 | 10.1 | * | * | |
| 1,2,3,7,8-PeCDD | 6.66e+06 | 0.62 y | 0.84 | 31:34 | 1.000 | 48.020 | * | 2.5 | * | * | Total Penta-Dioxins | 48.0 | 48.4 | * | * | |
| 1,2,3,4,7,8-HxCDD | 5.44e+06 | 1.29 y | 1.05 | 34:55 | 1.000 | 46.247 | * | 2.5 | * | * | Total Hexa-Dioxins | 137 | 138 | * | * | |
| 1,2,3,6,7,8-HxCDD | 5.59e+06 | 1.21 y | 1.04 | 35:02 | 1.001 | 45.639 | * | 2.5 | * | * | Total Hepta-Dioxins | 50.3 | 51.1 | * | * | |
| 1,2,3,7,8,9-HxCDD | 5.53e+06 | 1.26 y | 0.90 | 35:20 | 1.000 | 45.497 | * | 2.5 | * | * | Total Tetra-Furans | 9.60 | 9.76 | * | * | |
| 1,2,3,4,6,7,8-HpCDD | 4.93e+06 | 1.06 y | 1.01 | 38:46 | 1.000 | 49.570 | * | 2.5 | * | * | Total Penta-Furans | 98.422 | 98.592 | * | * | |
| OCDD | 7.90e+06 | 0.92 y | 1.04 | 42:08 | 1.000 | 89.822 | * | 2.5 | * | * | Total Hexa-Furans | 185 | 186 | * | * | |
| | | | | | | | | | | | Total Hepta-Furans | 87.5 | 89.1 | * | * | |
| 2,3,7,8-TCDF | 1.65e+06 | 0.78 y | 0.91 | 26:19 | 1.001 | 9.4763 | * | 2.5 | * | * | | | | | | |
| 1,2,3,7,8-PeCDF | 9.70e+06 | 1.61 y | 0.97 | 30:24 | 1.000 | 48.082 | * | 2.5 | * | * | | | | | | |
| 2,3,4,7,8-PeCDF | 1.00e+07 | 1.61 y | 0.94 | 31:17 | 1.000 | 48.316 | * | 2.5 | * | * | | | | | | |
| 1,2,3,4,7,8-HxCDF | 9.68e+06 | 1.28 y | 1.32 | 34:01 | 1.000 | 46.390 | * | 2.5 | * | * | | | | | | |
| 1,2,3,6,7,8-HxCDF | 9.40e+06 | 1.28 y | 1.18 | 34:09 | 1.000 | 46.384 | * | 2.5 | * | * | | | | | | |
| 2,3,4,6,7,8-HxCDF | 8.41e+06 | 1.29 y | 1.23 | 34:45 | 1.001 | 45.566 | * | 2.5 | * | * | | | | | | |
| 1,2,3,7,8,9-HxCDF | 6.79e+06 | 1.25 y | 1.13 | 35:43 | 1.001 | 46.486 | * | 2.5 | * | * | | | | | | |
| 1,2,3,4,6,7,8-HpCDF | 7.42e+06 | 1.07 y | 1.57 | 37:36 | 1.000 | 44.089 | * | 2.5 | * | * | | | | | | |
| 1,2,3,4,7,8,9-HpCDF | 6.52e+06 | 1.08 y | 1.50 | 39:20 | 1.000 | 42.808 | * | 2.5 | * | * | | | | | | |
| OCDF | 1.06e+07 | 0.92 y | 1.05 | 42:21 | 1.000 | 93.229 | * | 2.5 | * | * | | | | | | |
| | | | | | | | | | | | Rec | Qual | | | | |
| IS 13C-2,3,7,8-TCDD | 1.38e+07 | 0.82 y | 1.06 | 27:05 | 1.021 | 54.245 | | | | | 54.2 | | | | | |
| IS 13C-1,2,3,7,8-PeCDD | 1.65e+07 | 0.62 y | 1.08 | 31:33 | 1.189 | 63.780 | | | | | 63.8 | | | | | |
| IS 13C-1,2,3,4,7,8-HxCDD | 1.12e+07 | 1.28 y | 0.74 | 34:54 | 1.014 | 57.328 | | | | | 57.3 | | | | | |
| IS 13C-1,2,3,6,7,8-HxCDD | 1.18e+07 | 1.28 y | 0.75 | 35:01 | 1.017 | 59.782 | | | | | 59.8 | | | | | |
| IS 13C-1,2,3,7,8,9-HxCDD | 1.36e+07 | 1.25 y | 0.89 | 35:19 | 1.026 | 57.834 | | | | | 57.8 | | | | | |
| IS 13C-1,2,3,4,6,7,8-HpCDD | 9.85e+06 | 1.07 y | 0.70 | 38:45 | 1.126 | 53.247 | | | | | 53.2 | | | | | |
| IS 13C-OCDD | 1.69e+07 | 0.90 y | 0.59 | 42:07 | 1.223 | 108.70 | | | | | 54.4 | | | | | |
| IS 13C-2,3,7,8-TCDF | 1.91e+07 | 0.75 y | 0.97 | 26:18 | 0.991 | 52.241 | | | | | 52.2 | | | | | |
| IS 13C-1,2,3,7,8-PeCDF | 2.08e+07 | 1.54 y | 0.99 | 30:23 | 1.145 | 55.491 | | | | | 55.5 | | | | | |
| IS 13C-2,3,4,7,8-PeCDF | 2.21e+07 | 1.58 y | 1.01 | 31:16 | 1.179 | 58.068 | | | | | 58.1 | | | | | |
| IS 13C-1,2,3,4,7,8-HxCDF | 1.58e+07 | 0.52 y | 0.94 | 33:60 | 0.988 | 63.909 | | | | | 63.9 | | | | | |
| IS 13C-1,2,3,6,7,8-HxCDF | 1.73e+07 | 0.51 y | 1.23 | 34:08 | 0.991 | 53.349 | | | | | 53.3 | | | | | |
| IS 13C-2,3,4,6,7,8-HxCDF | 1.50e+07 | 0.52 y | 1.03 | 34:44 | 1.009 | 55.224 | | | | | 55.2 | | | | | |
| IS 13C-1,2,3,7,8,9-HxCDF | 1.29e+07 | 0.52 y | 0.89 | 35:42 | 1.037 | 55.476 | | | | | 55.5 | | | | | |
| IS 13C-1,2,3,4,6,7,8-HpCDF | 1.07e+07 | 0.45 y | 0.71 | 37:35 | 1.092 | 57.544 | | | | | 57.5 | | | | | |
| IS 13C-1,2,3,4,7,8,9-HpCDF | 1.01e+07 | 0.45 y | 0.64 | 39:19 | 1.142 | 59.969 | | | | | 60.0 | | | | | |
| IS 13C-OCDF | 2.15e+07 | 0.90 y | 0.76 | 42:21 | 1.230 | 107.61 | | | | | 53.8 | | | | | |
| C/Up 37Cl-2,3,7,8-TCDD | 5.60e+06 | | 1.04 | 27:06 | 1.021 | 22.503 | | | | | 56.3 | | | | | |
| | | | | | | | | | | | Integrations | | | | | |
| | | | | | | | | | | | by | | | | | |
| RS/RT 13C-1,2,3,4-TCDD | 2.38e+07 | 0.81 y | 1.00 | 26:32 | * | 100.00 | | | | | Analyst: <i>mm</i> | | | | | |
| RS 13C-1,2,3,4-TCDF | 3.78e+07 | 0.75 y | 1.00 | 25:07 | * | 100.00 | | | | | Analyst: <i>afz</i> | | | | | |
| RS/RT 13C-1,2,3,4,6,9-HxCDF | 2.63e+07 | 0.54 y | 1.00 | 34:25 | * | 100.00 | | | | | Date: <i>9/19/14</i> | | | | | |
| | | | | | | | | | | | Date: <i>9/19/14</i> | | | | | |

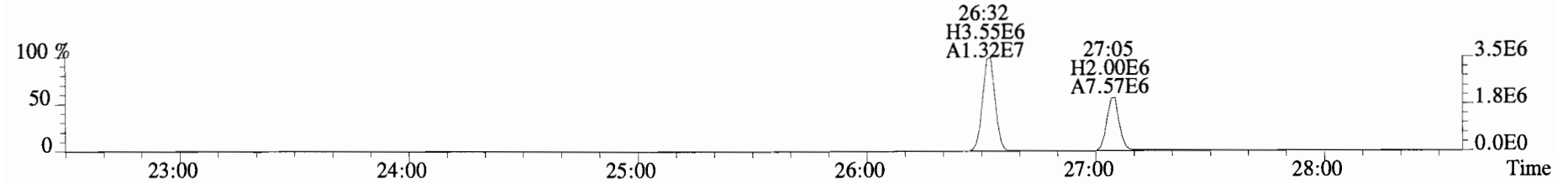
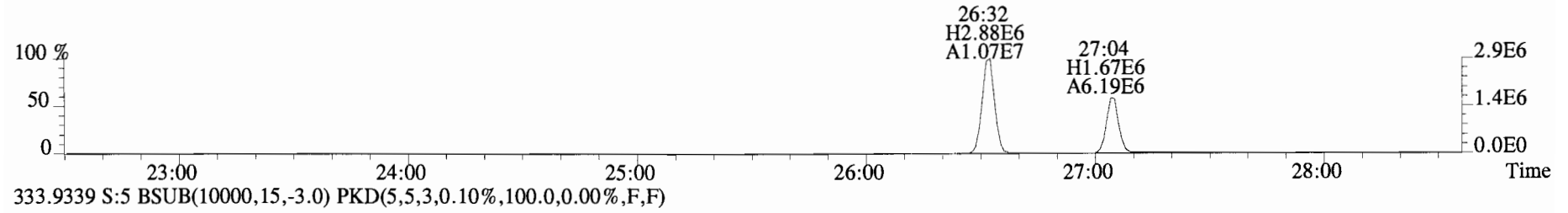
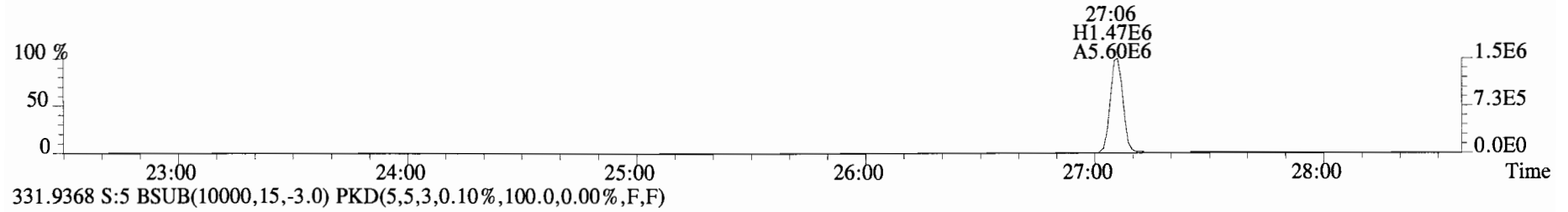
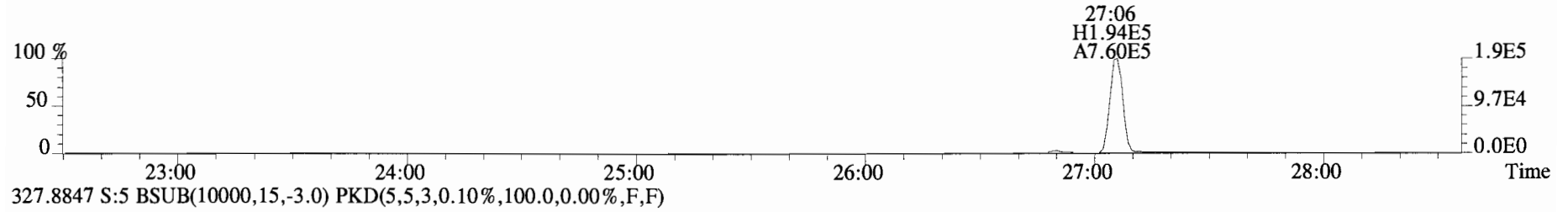
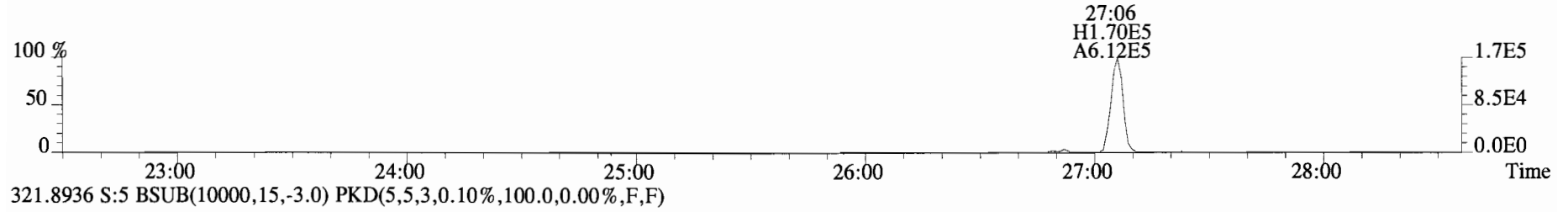
Client ID: OPR
Lab ID: B4I0053-BS1

Filename: 140917D1 S:5 Acq:17-SEP-14 16:25:00
GC Column ID: ZB-5MS ICal: 1613VG7-4-17-14 wt/vol:10.000

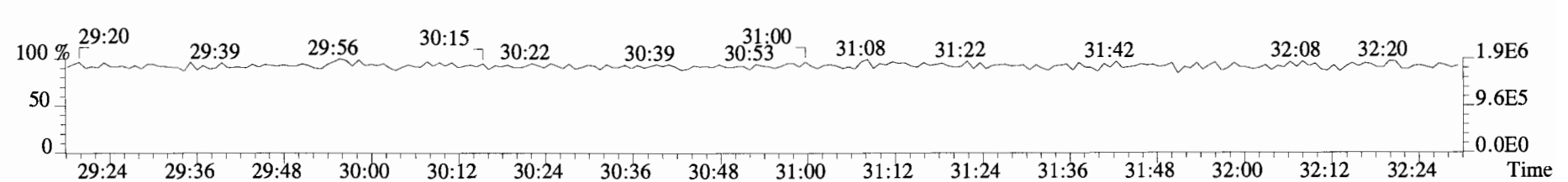
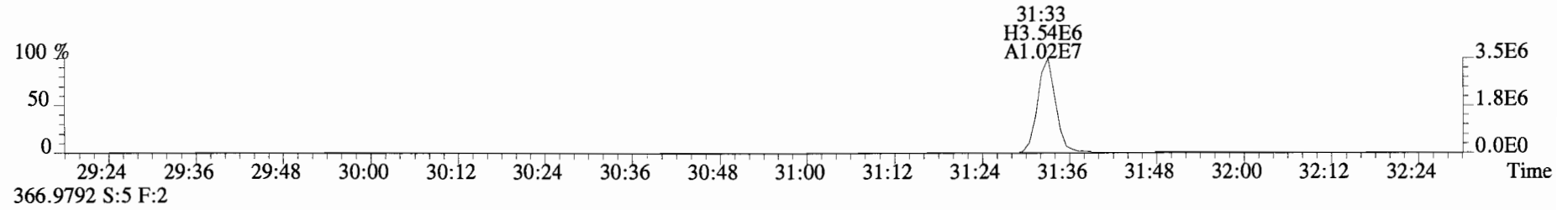
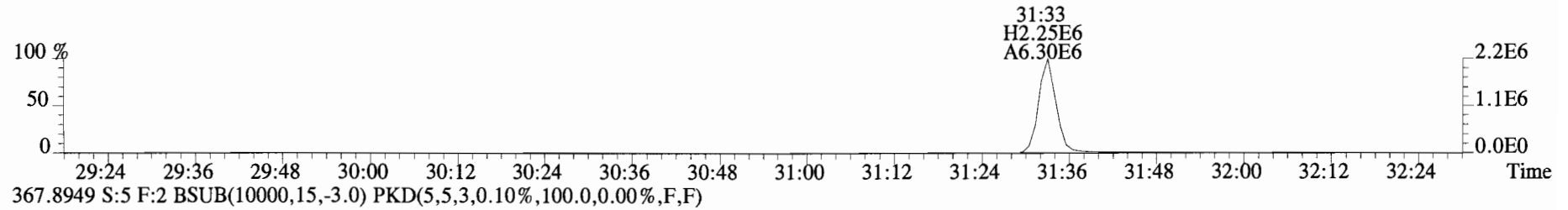
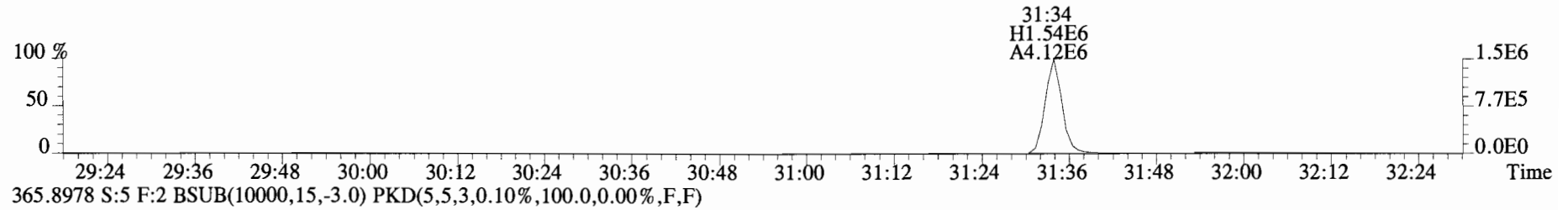
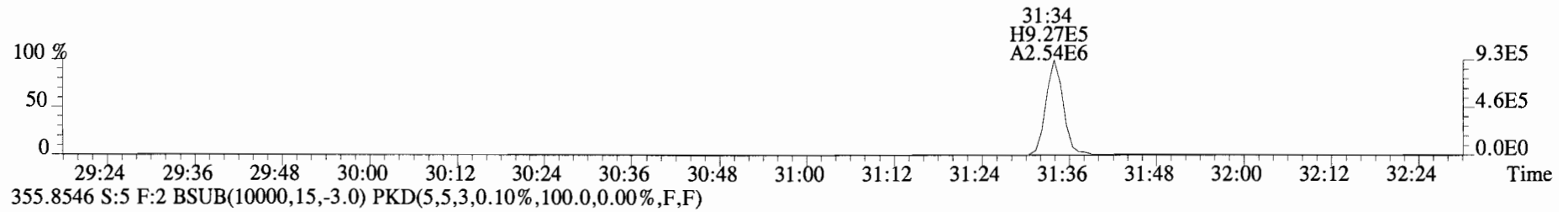
ConCal: ST140917D1-1
EndCAL: NA

| Name | Resp | RA | RRF | RT | RRT | Conc | Q | noise | Fac | DL | Name | Conc | EMPC | Qual | noise | DL |
|-----------------------------|----------|--------|------|-------|-------|--------|---|-------|-----|----|----------------------|--------|--------|------|-------|----|
| 2,3,7,8-TCDD | 1.37e+06 | 0.81 y | 1.03 | 27:06 | 1.001 | 19.318 | * | 2.5 | * | * | Total Tetra-Dioxins | 19.9 | 20.1 | * | * | |
| 1,2,3,7,8-PeCDD | 6.66e+06 | 0.62 y | 0.84 | 31:34 | 1.000 | 96.040 | * | 2.5 | * | * | Total Penta-Dioxins | 96.0 | 96.8 | * | * | |
| 1,2,3,4,7,8-HxCDD | 5.44e+06 | 1.29 y | 1.05 | 34:55 | 1.000 | 92.494 | * | 2.5 | * | * | Total Hexa-Dioxins | 275 | 276 | * | * | |
| 1,2,3,6,7,8-HxCDD | 5.59e+06 | 1.21 y | 1.04 | 35:02 | 1.001 | 91.278 | * | 2.5 | * | * | Total Hepta-Dioxins | 101 | 102 | * | * | |
| 1,2,3,7,8,9-HxCDD | 5.53e+06 | 1.26 y | 0.90 | 35:20 | 1.000 | 90.993 | * | 2.5 | * | * | Total Tetra-Furans | 19.2 | 19.5 | * | * | |
| 1,2,3,4,6,7,8-HpCDD | 4.93e+06 | 1.06 y | 1.01 | 38:46 | 1.000 | 99.139 | * | 2.5 | * | * | Total Penta-Furans | 196.84 | 197.18 | * | * | |
| OCDD | 7.90e+06 | 0.92 y | 1.04 | 42:08 | 1.000 | 179.64 | * | 2.5 | * | * | Total Hexa-Furans | 370 | 371 | * | * | |
| | | | | | | | | | | | Total Hepta-Furans | 175 | 178 | * | * | |
| 2,3,7,8-TCDF | 1.65e+06 | 0.78 y | 0.91 | 26:19 | 1.001 | 18.953 | * | 2.5 | * | * | | | | | | |
| 1,2,3,7,8-PeCDF | 9.70e+06 | 1.61 y | 0.97 | 30:24 | 1.000 | 96.163 | * | 2.5 | * | * | | | | | | |
| 2,3,4,7,8-PeCDF | 1.00e+07 | 1.61 y | 0.94 | 31:17 | 1.000 | 96.633 | * | 2.5 | * | * | | | | | | |
| 1,2,3,4,7,8-HxCDF | 9.68e+06 | 1.28 y | 1.32 | 34:01 | 1.000 | 92.780 | * | 2.5 | * | * | | | | | | |
| 1,2,3,6,7,8-HxCDF | 9.40e+06 | 1.28 y | 1.18 | 34:09 | 1.000 | 92.768 | * | 2.5 | * | * | | | | | | |
| 2,3,4,6,7,8-HxCDF | 8.41e+06 | 1.29 y | 1.23 | 34:45 | 1.001 | 91.132 | * | 2.5 | * | * | | | | | | |
| 1,2,3,7,8,9-HxCDF | 6.79e+06 | 1.25 y | 1.13 | 35:43 | 1.001 | 92.973 | * | 2.5 | * | * | | | | | | |
| 1,2,3,4,6,7,8-HpCDF | 7.42e+06 | 1.07 y | 1.57 | 37:36 | 1.000 | 88.179 | * | 2.5 | * | * | | | | | | |
| 1,2,3,4,7,8,9-HpCDF | 6.52e+06 | 1.08 y | 1.50 | 39:20 | 1.000 | 85.615 | * | 2.5 | * | * | | | | | | |
| OCDF | 1.06e+07 | 0.92 y | 1.05 | 42:21 | 1.000 | 186.46 | * | 2.5 | * | * | | | | | | |
| | | | | | | | | | | | Rec | Qual | | | | |
| IS 13C-2,3,7,8-TCDD | 1.38e+07 | 0.82 y | 1.06 | 27:05 | 1.021 | 108.49 | | | | | 54.2 | | | | | |
| IS 13C-1,2,3,7,8-PeCDD | 1.65e+07 | 0.62 y | 1.08 | 31:33 | 1.189 | 127.56 | | | | | 63.8 | | | | | |
| IS 13C-1,2,3,4,7,8-HxCDD | 1.12e+07 | 1.28 y | 0.74 | 34:54 | 1.014 | 114.66 | | | | | 57.3 | | | | | |
| IS 13C-1,2,3,6,7,8-HxCDD | 1.18e+07 | 1.28 y | 0.75 | 35:01 | 1.017 | 119.56 | | | | | 59.8 | | | | | |
| IS 13C-1,2,3,7,8,9-HxCDD | 1.36e+07 | 1.25 y | 0.89 | 35:19 | 1.026 | 115.67 | | | | | 57.8 | | | | | |
| IS 13C-1,2,3,4,6,7,8-HpCDD | 9.85e+06 | 1.07 y | 0.70 | 38:45 | 1.126 | 106.49 | | | | | 53.2 | | | | | |
| IS 13C-OCDD | 1.69e+07 | 0.90 y | 0.59 | 42:07 | 1.223 | 217.41 | | | | | 54.4 | | | | | |
| IS 13C-2,3,7,8-TCDF | 1.91e+07 | 0.75 y | 0.97 | 26:18 | 0.991 | 104.48 | | | | | 52.2 | | | | | |
| IS 13C-1,2,3,7,8-PeCDF | 2.08e+07 | 1.54 y | 0.99 | 30:23 | 1.145 | 110.98 | | | | | 55.5 | | | | | |
| IS 13C-2,3,4,7,8-PeCDF | 2.21e+07 | 1.58 y | 1.01 | 31:16 | 1.179 | 116.14 | | | | | 58.1 | | | | | |
| IS 13C-1,2,3,4,7,8-HxCDF | 1.58e+07 | 0.52 y | 0.94 | 33:60 | 0.988 | 127.82 | | | | | 63.9 | | | | | |
| IS 13C-1,2,3,6,7,8-HxCDF | 1.73e+07 | 0.51 y | 1.23 | 34:08 | 0.991 | 106.70 | | | | | 53.3 | | | | | |
| IS 13C-2,3,4,6,7,8-HxCDF | 1.50e+07 | 0.52 y | 1.03 | 34:44 | 1.009 | 110.45 | | | | | 55.2 | | | | | |
| IS 13C-1,2,3,7,8,9-HxCDF | 1.29e+07 | 0.52 y | 0.89 | 35:42 | 1.037 | 110.95 | | | | | 55.5 | | | | | |
| IS 13C-1,2,3,4,6,7,8-HpCDF | 1.07e+07 | 0.45 y | 0.71 | 37:35 | 1.092 | 115.09 | | | | | 57.5 | | | | | |
| IS 13C-1,2,3,4,7,8,9-HpCDF | 1.01e+07 | 0.45 y | 0.64 | 39:19 | 1.142 | 119.94 | | | | | 60.0 | | | | | |
| IS 13C-OCDF | 2.15e+07 | 0.90 y | 0.76 | 42:21 | 1.230 | 215.21 | | | | | 53.8 | | | | | |
| C/Up 37Cl-2,3,7,8-TCDD | 5.60e+06 | | 1.04 | 27:06 | 1.021 | 45.007 | | | | | 56.3 | | | | | |
| | | | | | | | | | | | Integrations | | | | | |
| | | | | | | | | | | | by | | | | | |
| RS/RT 13C-1,2,3,4-TCDD | 2.38e+07 | 0.81 y | 1.00 | 26:32 | * | 200.00 | | | | | Analyst: <u>ms</u> | | | | | |
| RS 13C-1,2,3,4-TCDF | 3.78e+07 | 0.75 y | 1.00 | 25:07 | * | 200.00 | | | | | | | | | | |
| RS/RT 13C-1,2,3,4,6,9-HxCDF | 2.63e+07 | 0.54 y | 1.00 | 34:25 | * | 200.00 | | | | | | | | | | |
| | | | | | | | | | | | Date: <u>9/18/14</u> | | | | | |
| | | | | | | | | | | | | | | | | |

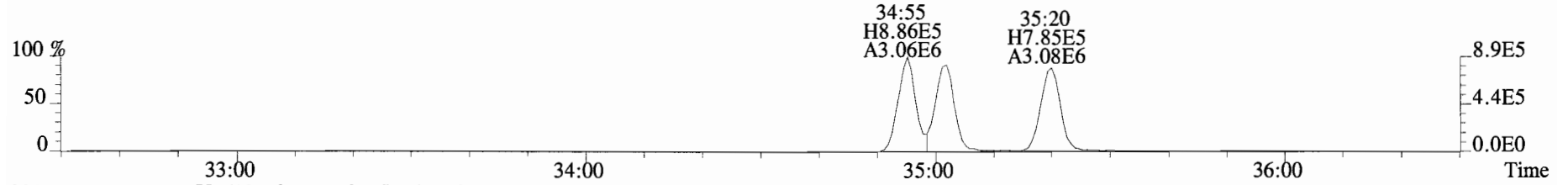
File:140917D1 #1-551 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



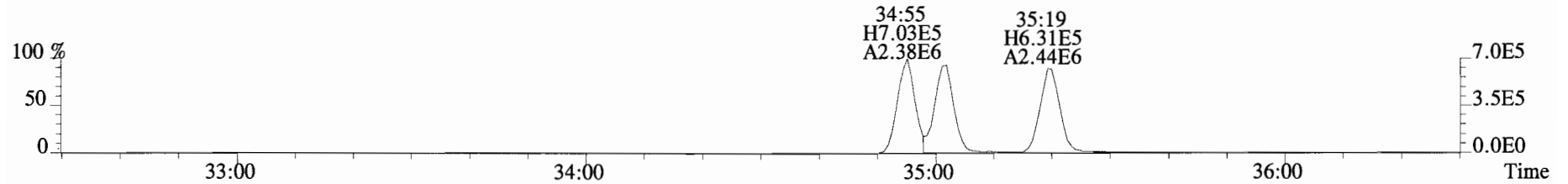
File:140917D1 #1-256 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD_DB5
353.8576 S:5 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



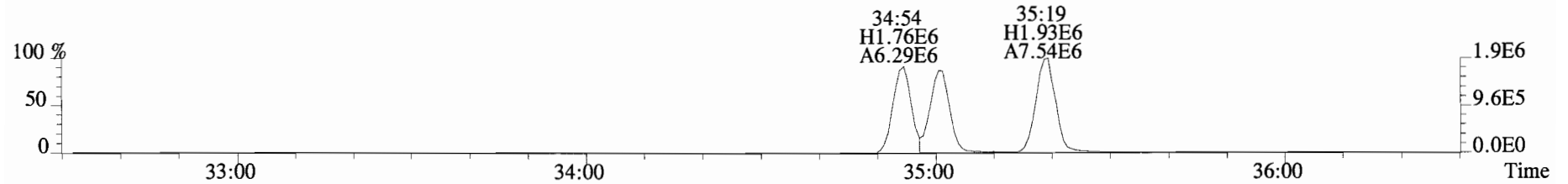
File:140917D1 #1-385 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD_DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



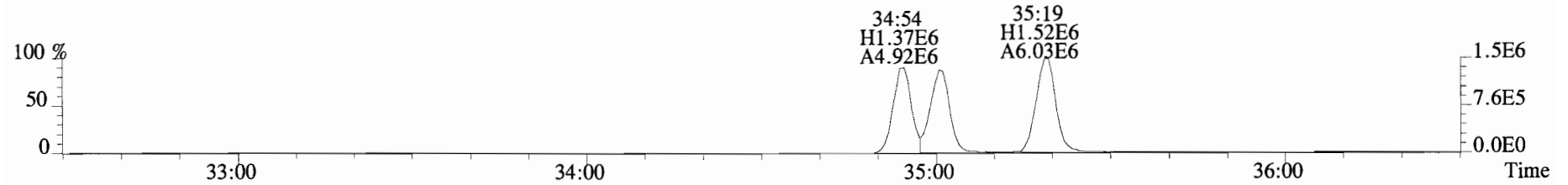
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



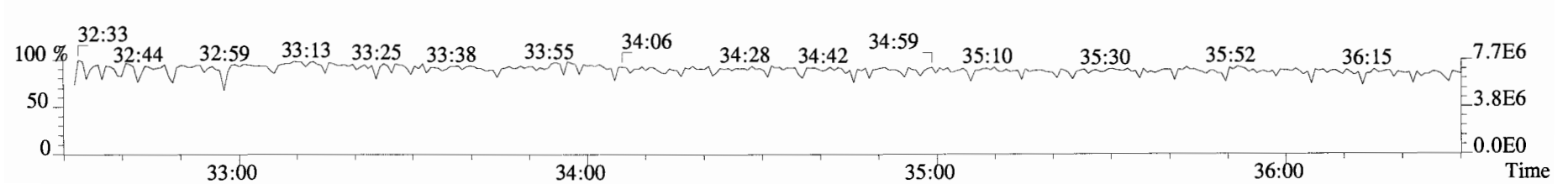
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



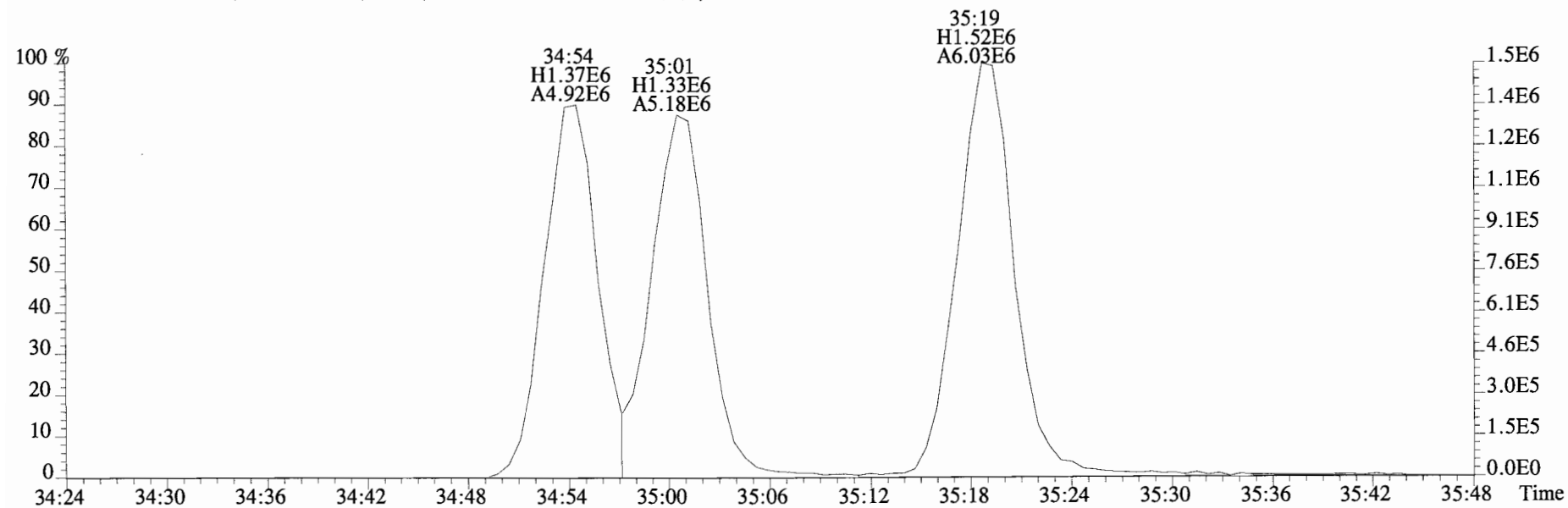
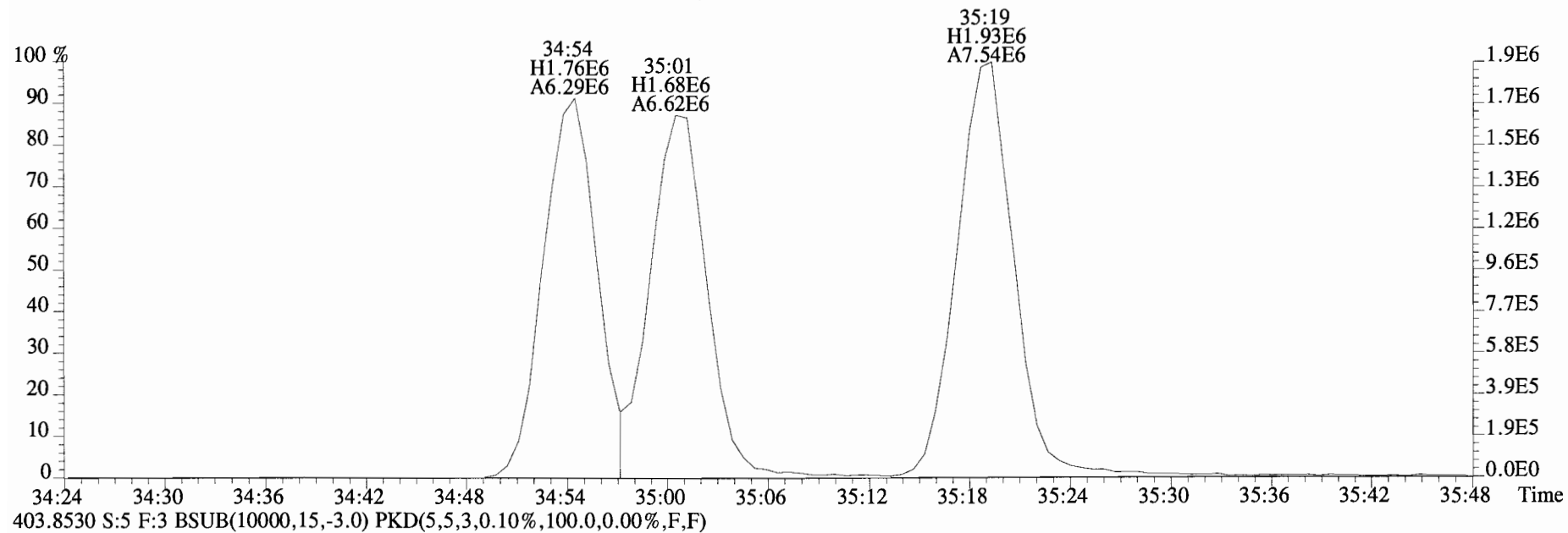
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



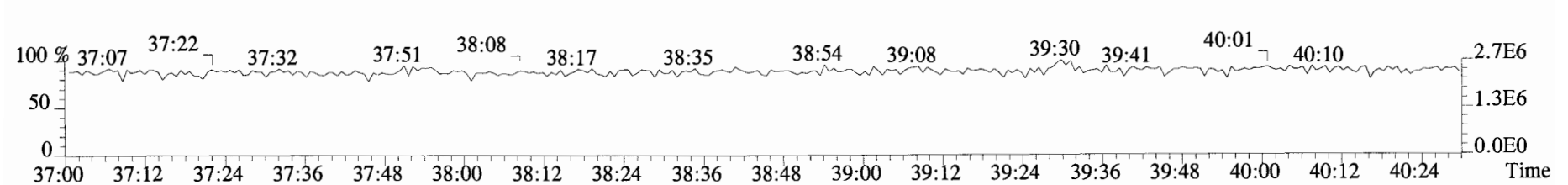
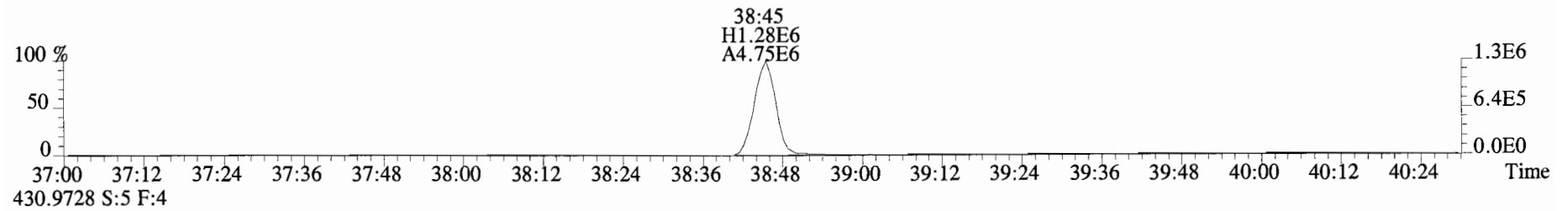
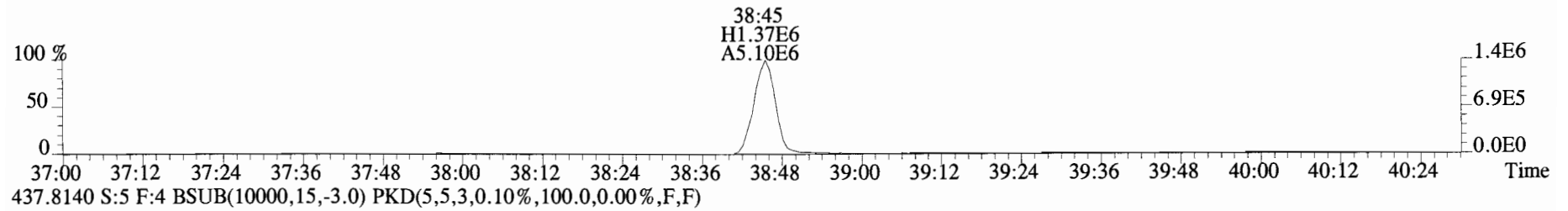
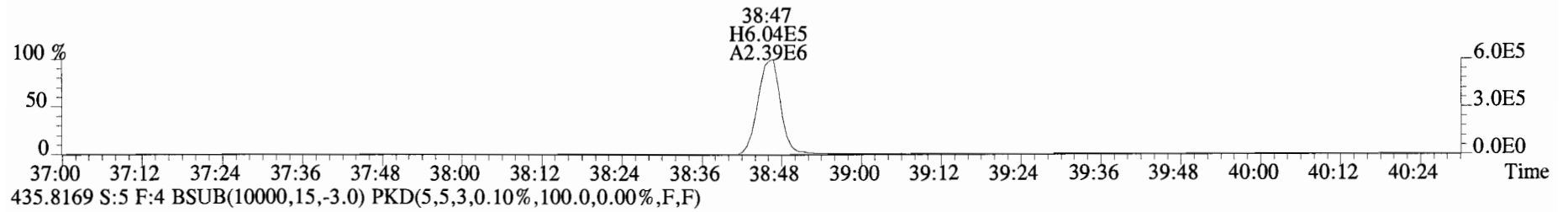
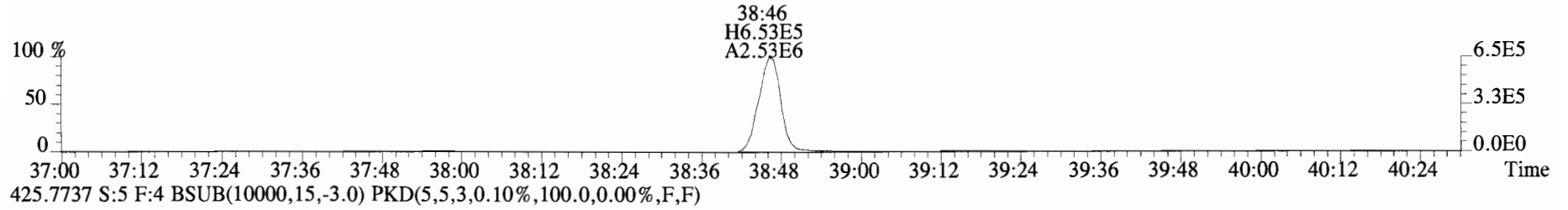
380.9760 S:5 F:3



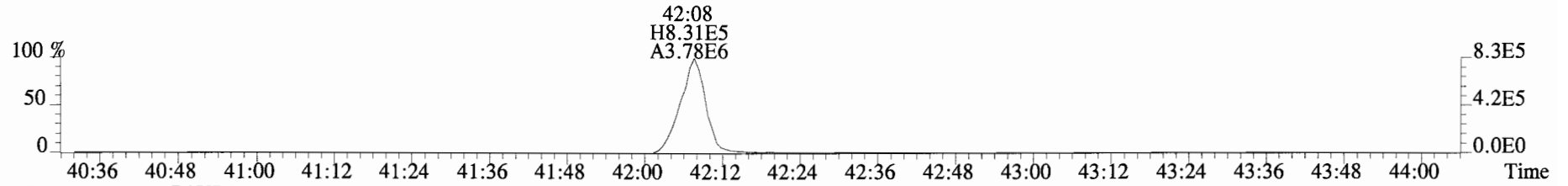
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Sample#5 File Text: Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD_DB5
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



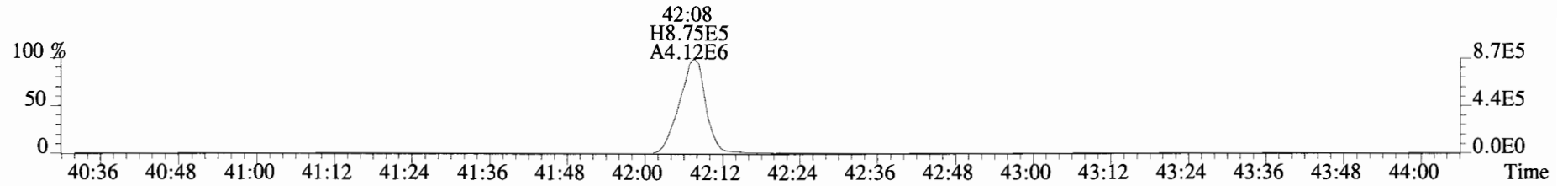
File:140917D1 #1-326 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD_DB5
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



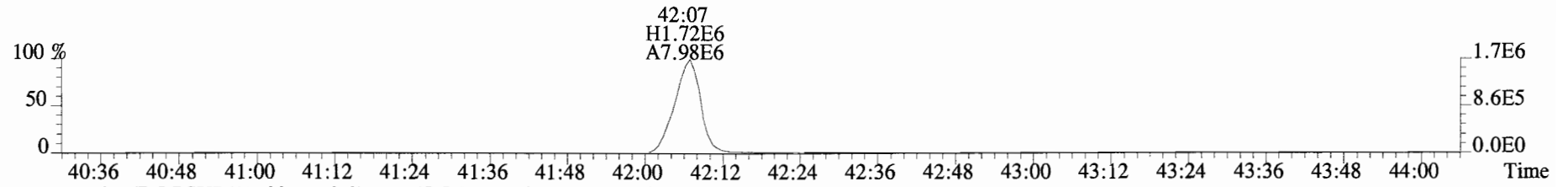
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Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD_DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



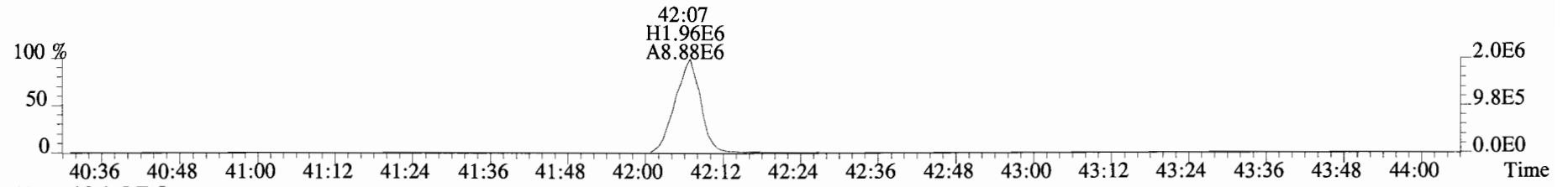
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



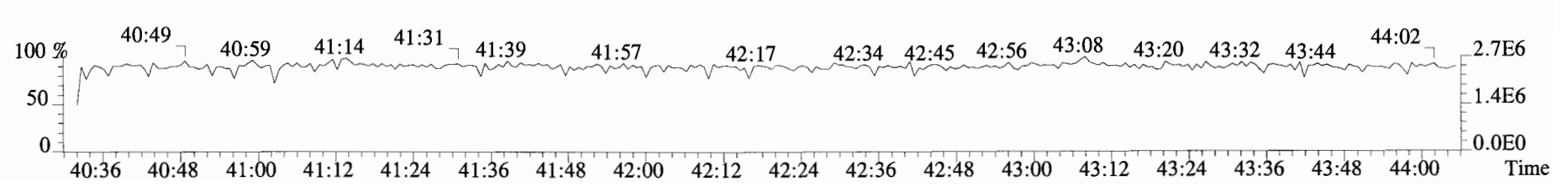
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



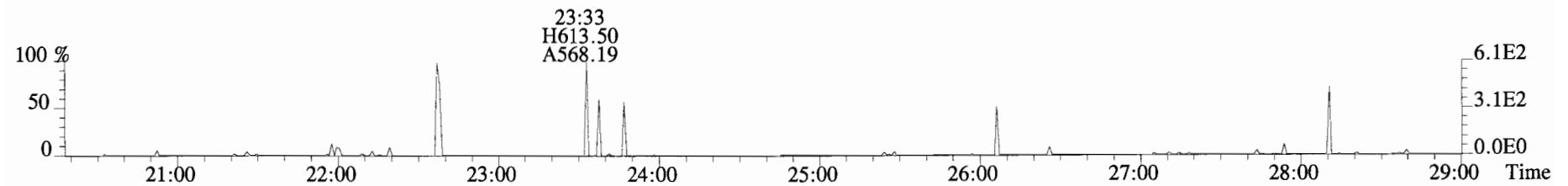
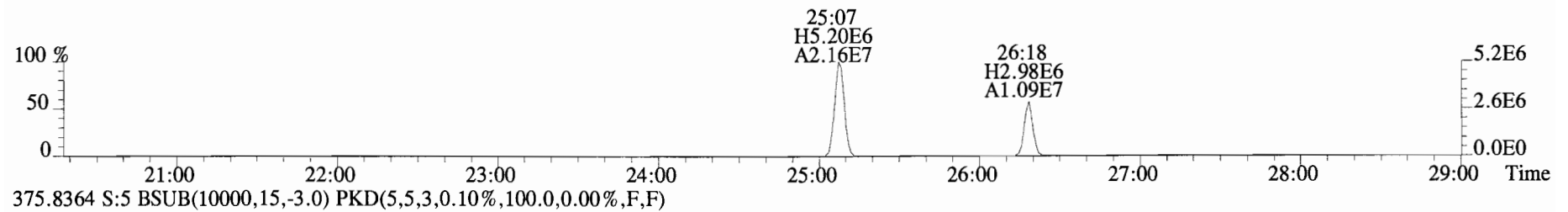
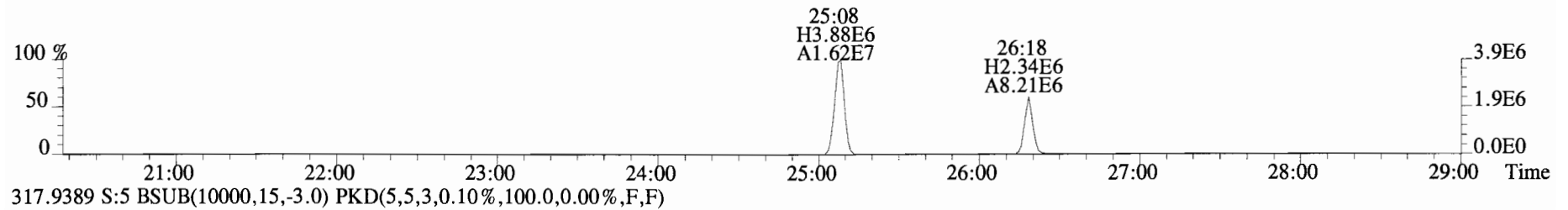
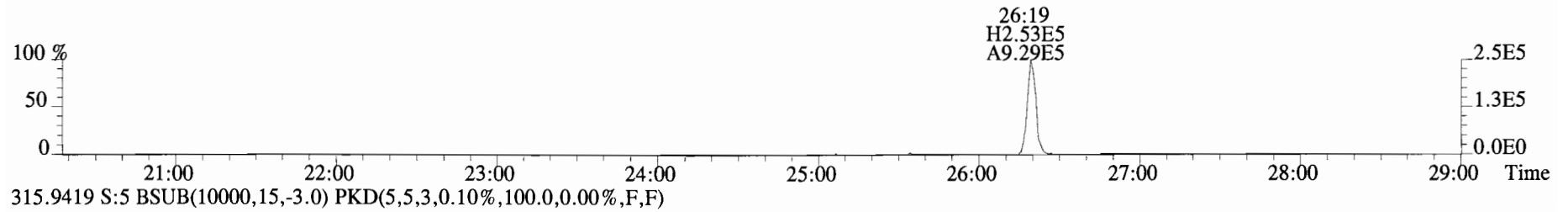
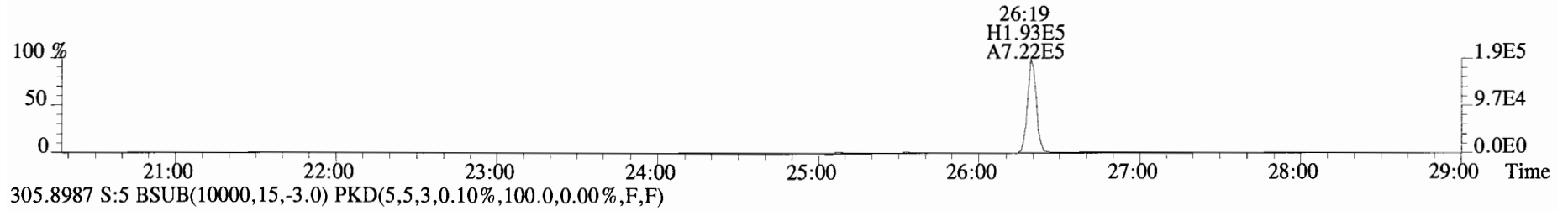
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



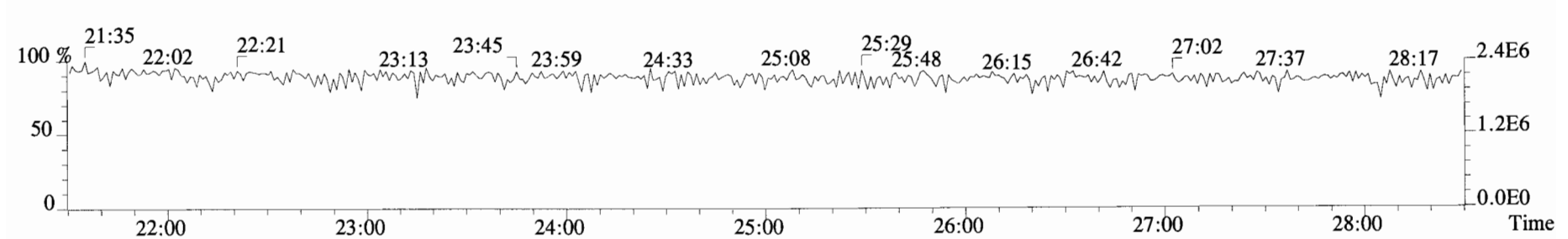
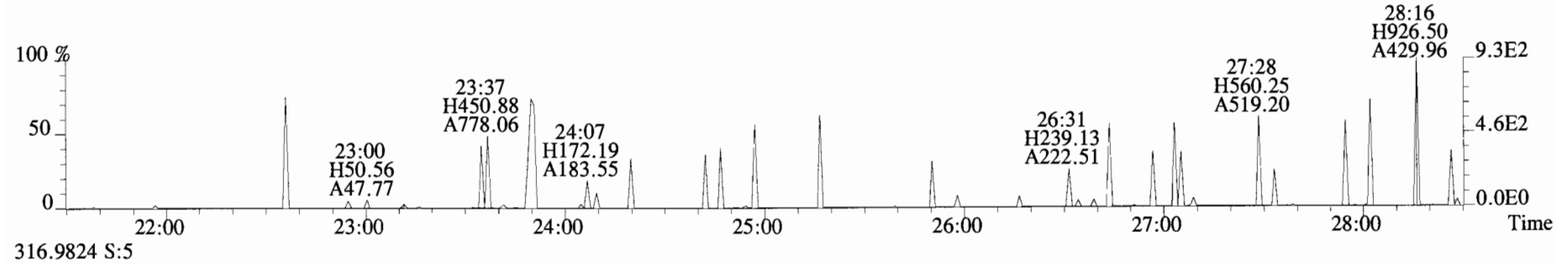
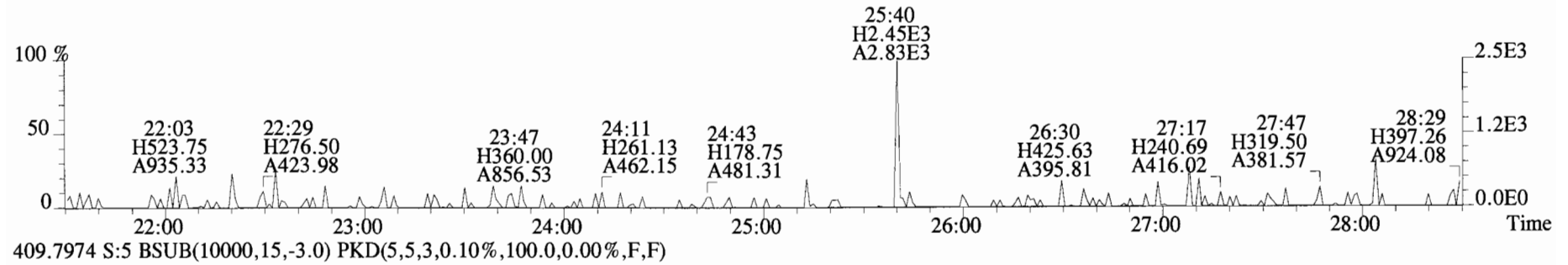
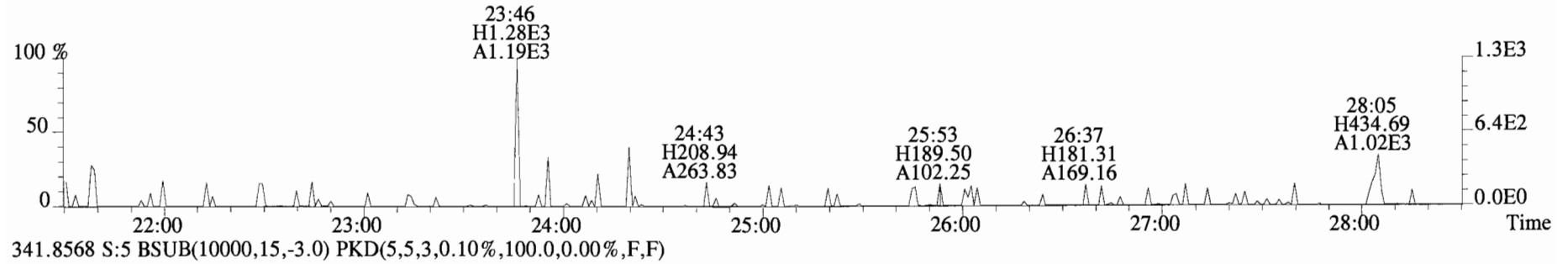
454.9728 S:5 F:5



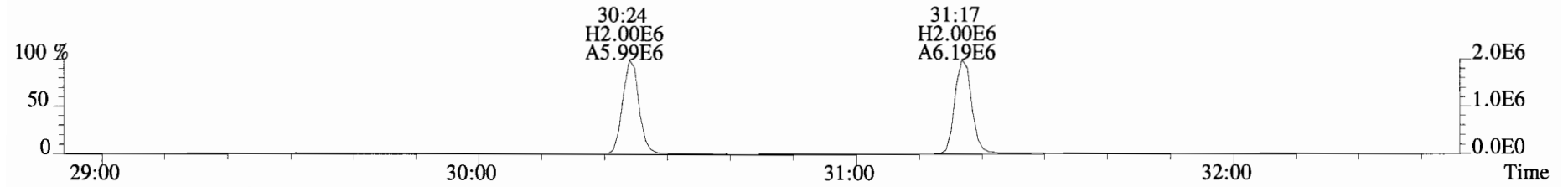
File:140917D1 #1-551 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD_DB5
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



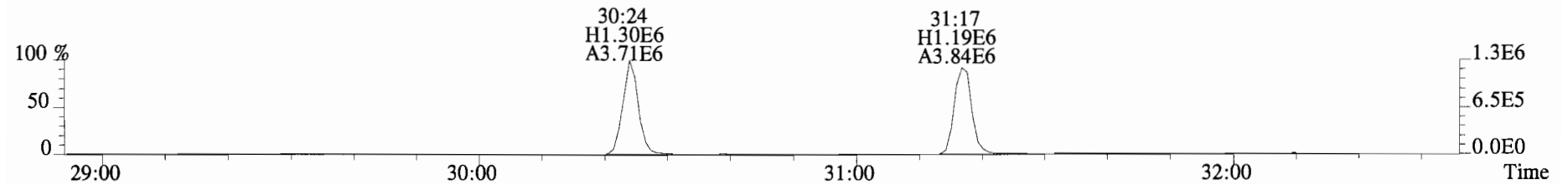
File:140917D1 #1-551 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD_DB5
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



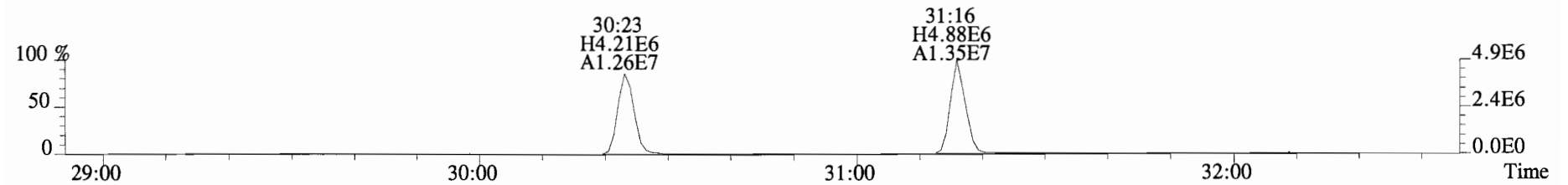
File:140917D1 #1-256 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



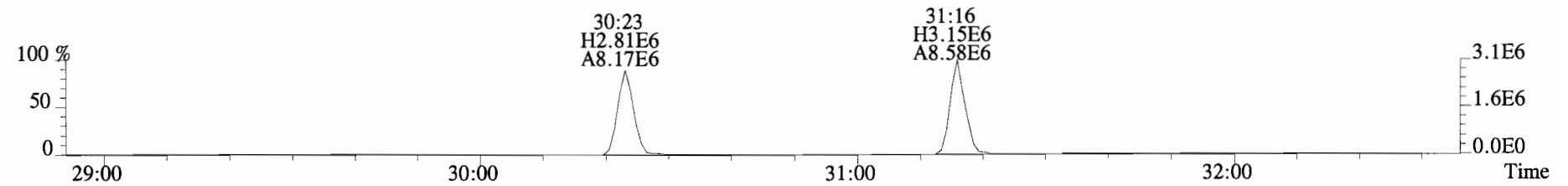
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



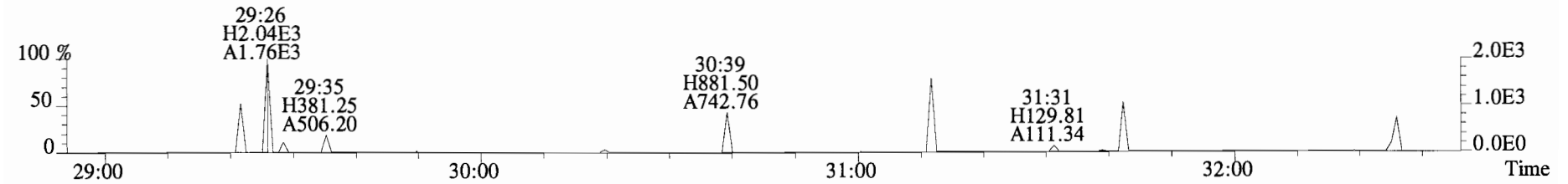
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



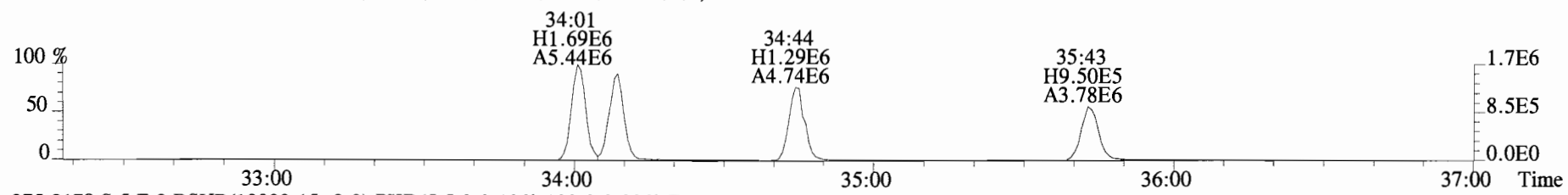
353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



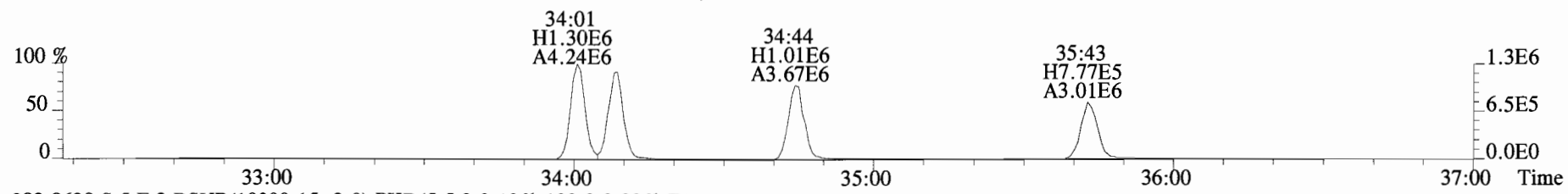
409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



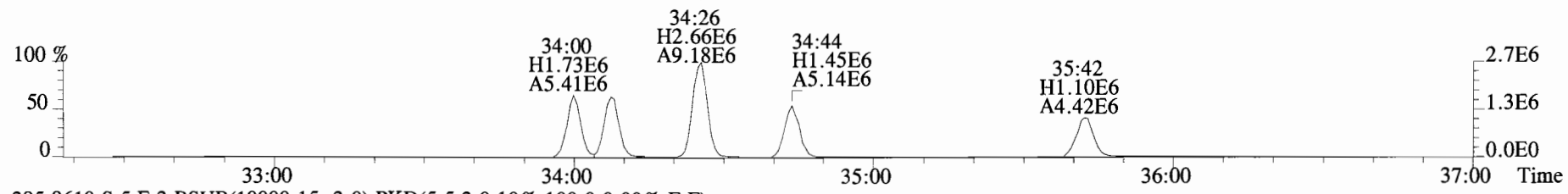
File:140917D1 #1-385 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



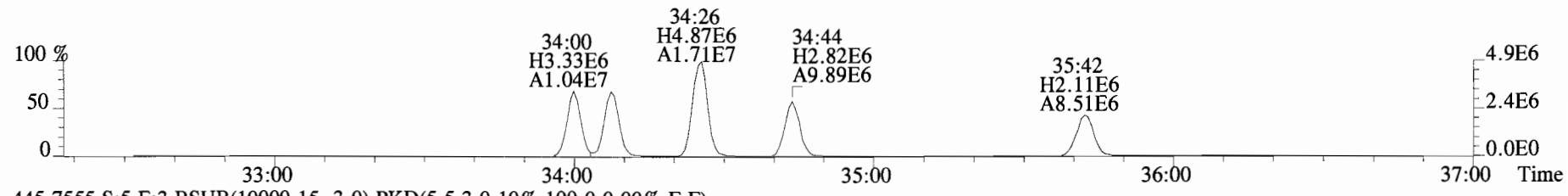
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



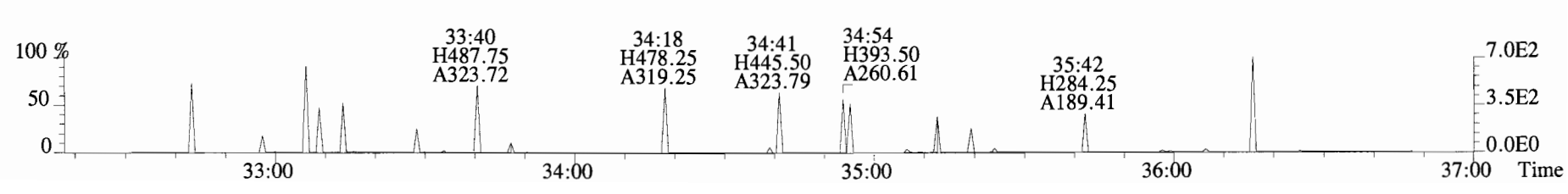
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



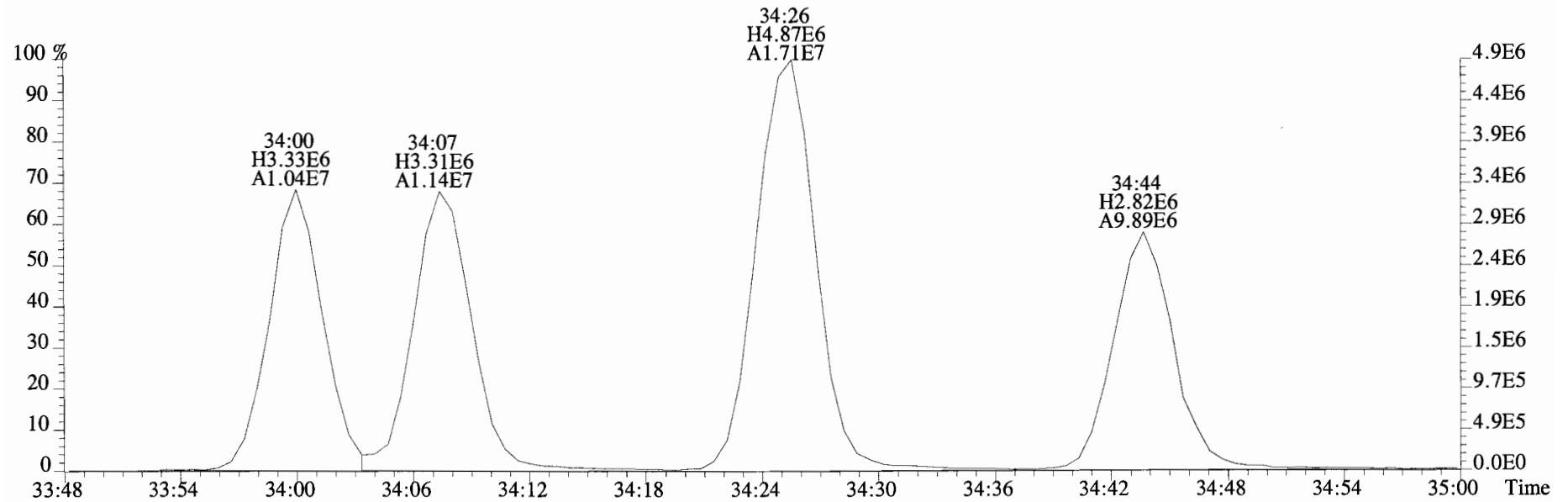
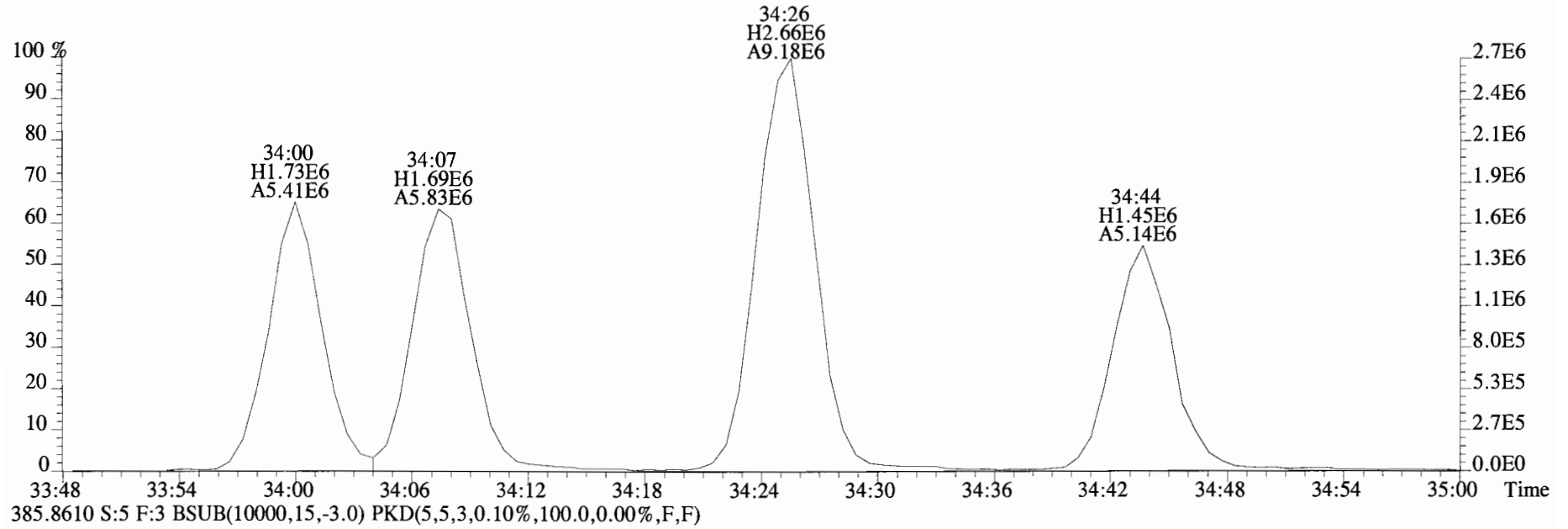
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



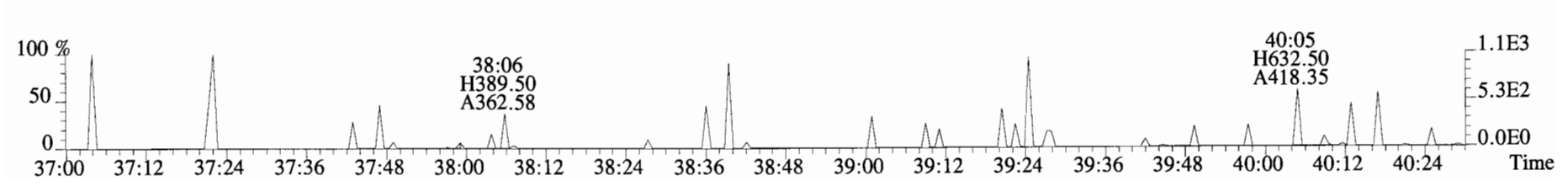
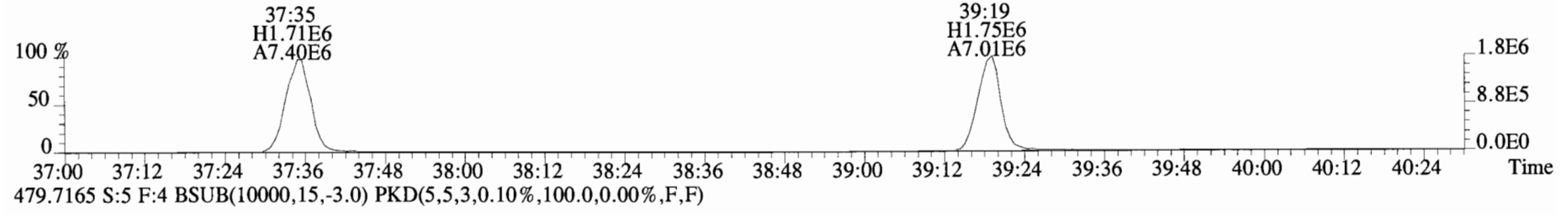
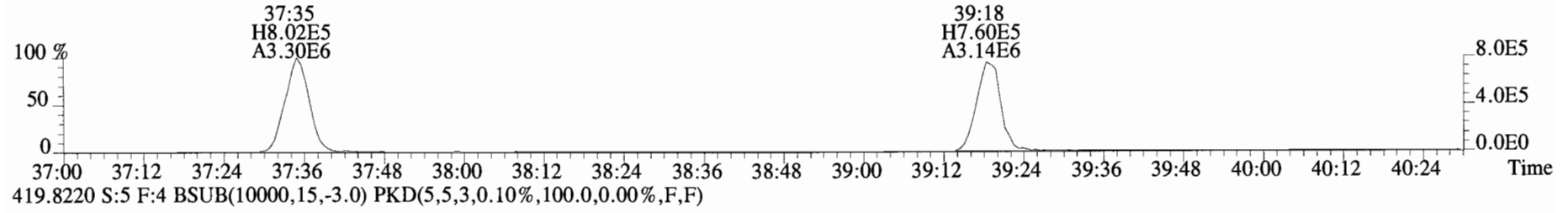
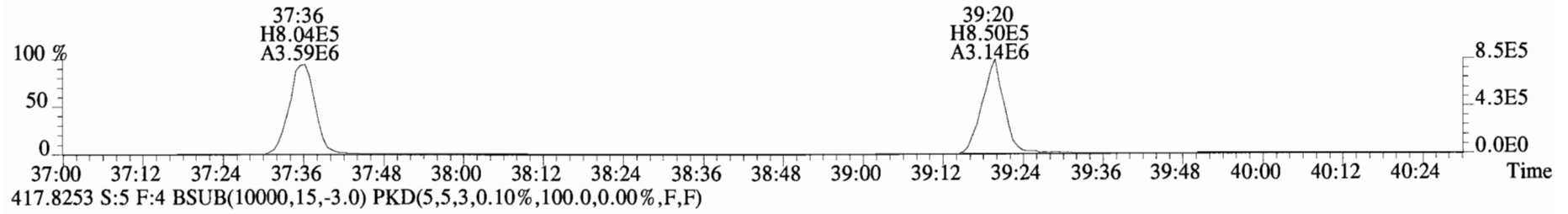
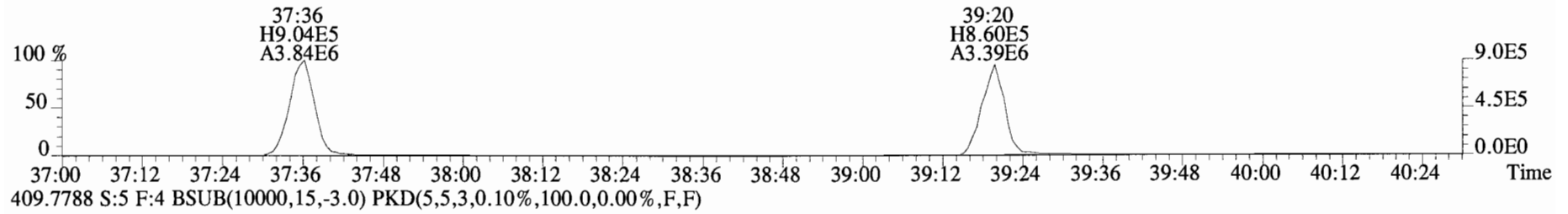
445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



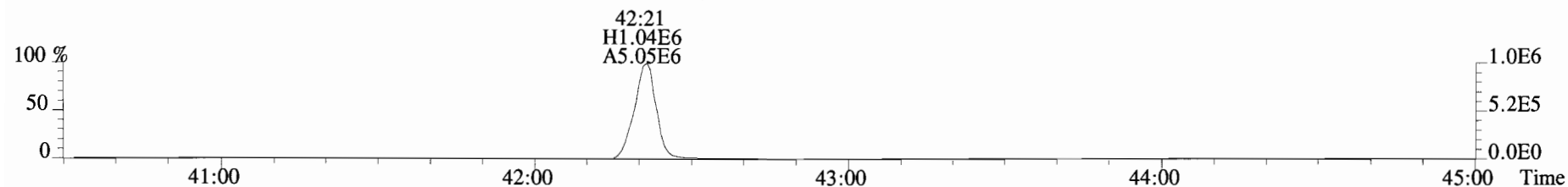
File:140917D1 #1-385 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD_DB5
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



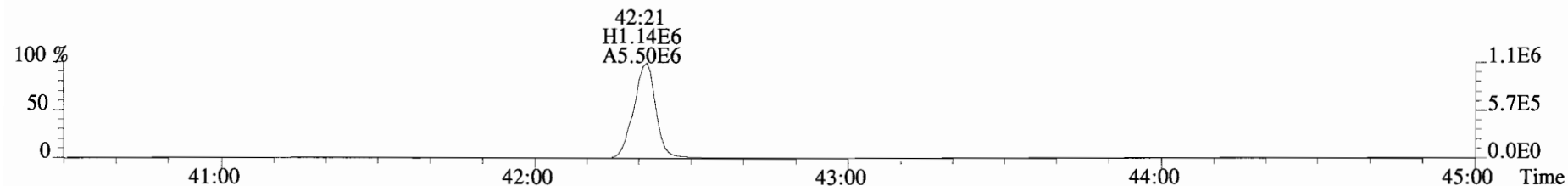
File:140917D1 #1-326 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD_DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



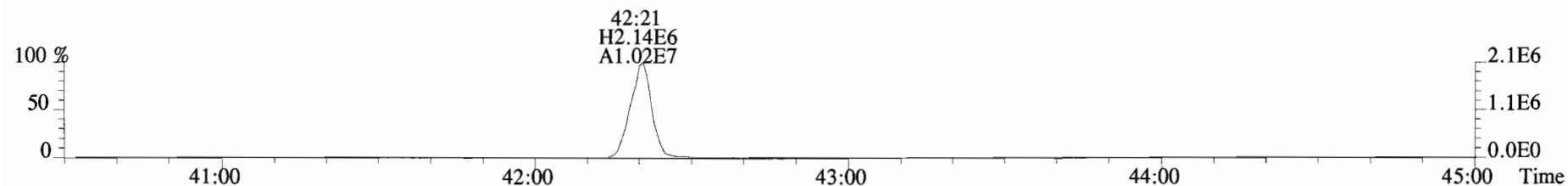
File:140917D1 #1-388 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD_DB5
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



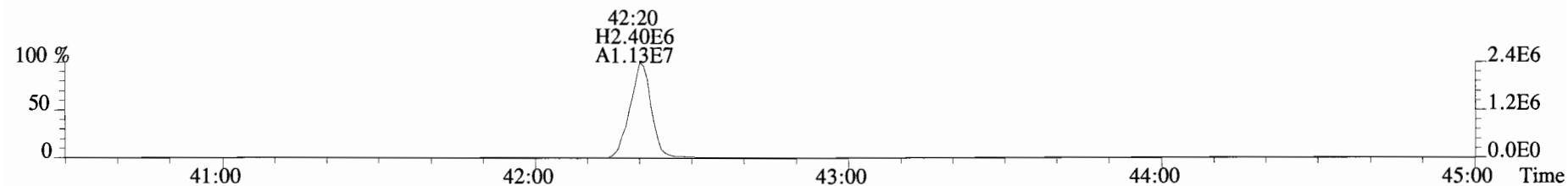
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



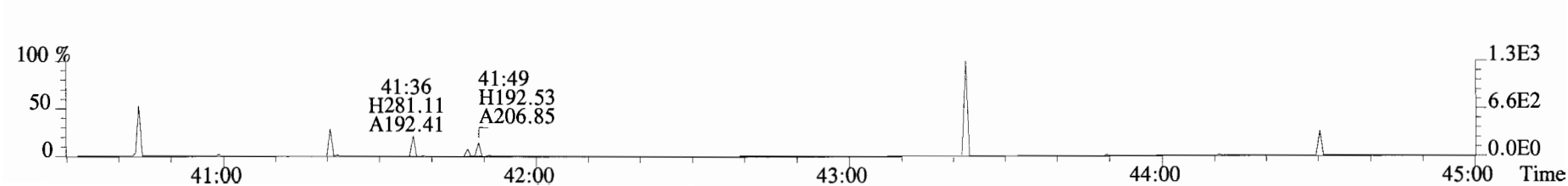
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)



| Name | Resp | RA | RRF | RT | RRT | Conc | Q | noise | Fac | DL |
|---------------------|----------|--------|------|--------------------|-------|-----------------|------|-------|-------|----|
| 2,3,7,8-TCDD | 2.11e+04 | 0.56 n | 1.03 | 27:03 | 1.000 | 0.20487 | | * | 2.5 | * |
| 1,2,3,7,8-PeCDD | 1.06e+05 | 0.55 y | 0.84 | 31:32 | 1.000 | 0.96951 | | * | 2.5 | * |
| 1,2,3,4,7,8-HxCDD | 1.39e+05 | 1.13 y | 1.05 | 34:53 | 1.000 | 1.4569 | | * | 2.5 | * |
| 1,2,3,6,7,8-HxCDD | 5.71e+05 | 1.33 y | 1.04 | 34:59 | 1.000 | 5.7788 | | * | 2.5 | * |
| 1,2,3,7,8,9-HxCDD | 3.50e+05 | 1.35 y | 0.90 | 35:18 | 1.000 | 3.6485 | | * | 2.5 | * |
| 1,2,3,4,6,7,8-HpCDD | 1.51e+07 | 1.03 y | 1.01 | 38:44 | 1.000 | 186.85 | | * | 2.5 | * |
| OCDD | 8.94e+07 | 0.90 y | 1.04 | 42:06 | 1.000 | 1202.3 | | * | 2.5 | * |
| 2,3,7,8-TCDF | 1.34e+05 | 0.77 y | 0.91 | 26:17 | 1.001 | 0.99076 (0.861) | | * | 2.5 | * |
| 1,2,3,7,8-PeCDF | 8.26e+04 | 1.72 y | 0.97 | 30:22 | 1.000 | 0.51810 | | * | 2.5 | * |
| 2,3,4,7,8-PeCDF | 2.24e+05 | 1.60 y | 0.94 | 31:14 | 1.000 | 1.3354 | | * | 2.5 | * |
| 1,2,3,4,7,8-HxCDF | 2.22e+05 | 1.25 y | 1.32 | 33:59 | 1.000 | 1.2862 | | * | 2.5 | * |
| 1,2,3,6,7,8-HxCDF | 2.10e+05 | 1.23 y | 1.18 | 34:06 | 1.000 | 1.3275 | | * | 2.5 | * |
| 2,3,4,6,7,8-HxCDF | 2.34e+05 | 1.23 y | 1.23 | 34:43 | 1.001 | 1.5233 | | * | 2.5 | * |
| 1,2,3,7,8,9-HxCDF | * | * n | 1.13 | Not F _h | * | * | 4180 | 1.0 | 0.205 | * |
| 1,2,3,4,6,7,8-HpCDF | 2.52e+06 | 1.08 y | 1.57 | 37:34 | 1.000 | 18.464 | | * | 2.5 | * |
| 1,2,3,4,7,8,9-HpCDF | 1.51e+05 | 1.05 y | 1.50 | 39:17 | 1.000 | 1.1631 | | * | 2.5 | * |
| OCDF | 3.71e+06 | 0.88 y | 1.05 | 42:19 | 1.000 | 40.165 | | * | 2.5 | * |

| Name | Conc | EMPC | Qual | noise | DL |
|---------------------|--------|--------|------|-------|----|
| Total Tetra-Dioxins | 3.60 | 4.70 | | * | * |
| Total Penta-Dioxins | 9.12 | 9.30 | | * | * |
| Total Hexa-Dioxins | 59.3 | 59.3 | | * | * |
| Total Hepta-Dioxins | 386 | 386 | | * | * |
| Total Tetra-Furans | 16.3 | 16.3 | | * | * |
| Total Penta-Furans | 16.006 | 16.006 | | * | * |
| Total Hexa-Furans | 23.9 | 23.9 | | * | * |
| Total Hepta-Furans | 39.2 | 39.2 | | * | * |

| IS | 13C-2,3,7,8-TCDD | 1.98e+07 | 0.83 y | 1.06 | 27:02 | 1.021 | 179.14 |
|----|-------------------------|----------|--------|------|-------|-------|--------|
| IS | 13C-1,2,3,7,8-PeCDD | 2.59e+07 | 0.63 y | 1.08 | 31:31 | 1.190 | 229.79 |
| IS | 13C-1,2,3,4,7,8-HxCDD | 1.80e+07 | 1.28 y | 0.74 | 34:52 | 1.014 | 183.08 |
| IS | 13C-1,2,3,6,7,8-HxCDD | 1.89e+07 | 1.27 y | 0.75 | 34:59 | 1.017 | 190.10 |
| IS | 13C-1,2,3,7,8,9-HxCDD | 2.13e+07 | 1.24 y | 0.89 | 35:17 | 1.026 | 179.99 |
| IS | 13C-1,2,3,4,6,7,8-HpCDD | 1.59e+07 | 1.03 y | 0.70 | 38:44 | 1.126 | 170.15 |
| IS | 13C-OCDD | 2.83e+07 | 0.89 y | 0.59 | 42:05 | 1.224 | 362.19 |
| IS | 13C-2,3,7,8-TCDF | 2.93e+07 | 0.76 y | 0.97 | 26:16 | 0.991 | 179.88 |
| IS | 13C-1,2,3,7,8-PeCDF | 3.26e+07 | 1.56 y | 0.99 | 30:21 | 1.146 | 195.14 |
| IS | 13C-2,3,4,7,8-PeCDF | 3.54e+07 | 1.57 y | 1.01 | 31:14 | 1.179 | 208.53 |
| IS | 13C-1,2,3,4,7,8-HxCDF | 2.60e+07 | 0.50 y | 0.94 | 33:58 | 0.988 | 208.58 |
| IS | 13C-1,2,3,6,7,8-HxCDF | 2.66e+07 | 0.53 y | 1.23 | 34:06 | 0.991 | 163.69 |
| IS | 13C-2,3,4,6,7,8-HxCDF | 2.48e+07 | 0.52 y | 1.03 | 34:42 | 1.009 | 181.15 |
| IS | 13C-1,2,3,7,8,9-HxCDF | 2.14e+07 | 0.51 y | 0.89 | 35:40 | 1.037 | 182.62 |
| IS | 13C-1,2,3,4,6,7,8-HpCDF | 1.72e+07 | 0.43 y | 0.71 | 37:33 | 1.092 | 183.85 |
| IS | 13C-1,2,3,4,7,8,9-HpCDF | 1.71e+07 | 0.44 y | 0.64 | 39:17 | 1.142 | 200.63 |
| IS | 13C-OCDF | 3.47e+07 | 0.90 y | 0.76 | 42:19 | 1.230 | 345.69 |

Rec Qual

| |
|------|
| 90.3 |
| 116 |
| 92.3 |
| 95.9 |
| 90.8 |
| 85.8 |
| 91.3 |
| 90.7 |
| 98.4 |
| 105 |
| 105 |
| 82.5 |
| 91.3 |
| 92.1 |
| 92.7 |
| 101 |
| 87.2 |

| | | | | | | | |
|-------|-----------------------|----------|--------|------|-------|-------|--------|
| C/Up | 37Cl-2,3,7,8-TCDD | 7.90e+06 | | 1.04 | 27:04 | 1.021 | 72.903 |
| RS/RT | 13C-1,2,3,4-TCDD | 2.06e+07 | 0.81 y | 1.00 | 26:30 | * | 198.31 |
| RS | 13C-1,2,3,4-TCDF | 3.34e+07 | 0.76 y | 1.00 | 25:05 | * | 198.31 |
| RS/RT | 13C-1,2,3,4,6,9-HxCDF | 2.63e+07 | 0.52 y | 1.00 | 34:24 | * | 198.31 |

Integrations Reviewed by Analyst: MS Date: 9/13/14

Analyst: [Signature] Date: 9/20/14

Totals class: TCDD EMPC

Entry #: 19

Run: 13 File: 140917D1 S: 10 I: 1 F: 1
 Acquired: 17-SEP-14 20:26:43 Processed: 18-SEP-14 09:39:51

Total Concentration: 4.6990

Unnamed Concentration: 4.494

| RT | m1 Resp | m2 Resp | RA | | Resp Concentration | Name |
|-------|-----------|-----------|------|---|--------------------|----------|
| 23:44 | 6.640e+04 | 8.615e+04 | 0.77 | y | 1.525e+05 | 1.4807 |
| 24:05 | 3.645e+04 | 4.551e+04 | 0.80 | y | 8.196e+04 | 0.79556 |
| 24:29 | 1.059e+04 | 9.088e+03 | 1.17 | n | 1.609e+04 | 0.15614 |
| 25:26 | 1.835e+04 | 2.649e+04 | 0.69 | y | 4.484e+04 | 0.43520 |
| 25:36 | 1.631e+04 | 2.032e+04 | 0.80 | y | 3.662e+04 | 0.35550 |
| 25:45 | 7.337e+03 | 1.341e+04 | 0.55 | n | 1.686e+04 | 0.16370 |
| 25:59 | 5.806e+03 | 4.202e+03 | 1.38 | n | 7.438e+03 | 0.072198 |
| 26:09 | 9.483e+03 | 9.883e+03 | 0.96 | n | 1.749e+04 | 0.16980 |
| 26:31 | 1.666e+04 | 1.581e+04 | 1.05 | n | 2.798e+04 | 0.27157 |
| 26:49 | 1.396e+04 | 1.967e+04 | 0.71 | y | 3.363e+04 | 0.32642 |
| 27:03 | 9.182e+03 | 1.649e+04 | 0.56 | n | 2.111e+04 | 0.20487 |
| 27:20 | 9.081e+03 | 1.224e+04 | 0.74 | y | 2.132e+04 | 0.20692 |
| 27:55 | 3.479e+03 | 3.520e+03 | 0.99 | n | 6.230e+03 | 0.060473 |

2,3,7,8-TCDD

Totals class: PeCDD EMPC

Entry #: 21

Run: 13 File: 140917D1 S: 10 I: 1 F: 2
Acquired: 17-SEP-14 20:26:43 Processed: 18-SEP-14 09:39:51

Total Concentration: 9.2987

Unnamed Concentration: 8.329

| RT | m1 Resp | m2 Resp | RA | | Resp Concentration | Name |
|-------|-----------|-----------|------|---|--------------------|---------|
| 29:30 | 1.025e+05 | 1.565e+05 | 0.65 | y | 2.590e+05 | 2.3597 |
| 29:57 | 2.627e+04 | 4.366e+04 | 0.60 | y | 6.993e+04 | 0.63717 |
| 30:22 | 5.129e+04 | 7.305e+04 | 0.70 | y | 1.243e+05 | 1.1329 |
| 30:32 | 4.340e+04 | 6.876e+04 | 0.63 | y | 1.122e+05 | 1.0220 |
| 30:38 | 3.534e+04 | 6.067e+04 | 0.58 | y | 9.601e+04 | 0.87476 |
| 30:51 | 4.964e+04 | 8.962e+04 | 0.55 | y | 1.393e+05 | 1.2688 |
| 31:09 | 1.978e+04 | 3.314e+04 | 0.60 | y | 5.292e+04 | 0.48214 |
| 31:32 | 3.792e+04 | 6.848e+04 | 0.55 | y | 1.064e+05 | 0.96951 |
| 31:37 | 7.520e+03 | 1.450e+04 | 0.52 | n | 1.946e+04 | 0.17729 |
| 31:54 | 1.461e+04 | 2.648e+04 | 0.55 | y | 4.110e+04 | 0.37444 |

Totals class: HxCDD EMPC

Entry #: 23

Run: 13 File: 140917D1 S: 10 I: 1 F: 3
Acquired: 17-SEP-14 20:26:43 Processed: 18-SEP-14 09:39:51

Total Concentration: 59.319

Unnamed Concentration: 48.435

| RT | m1 Resp | m2 Resp | RA | | Resp Concentration | Name |
|-------|-----------|-----------|------|---|--------------------|--------------------------|
| 33:19 | 8.028e+05 | 6.310e+05 | 1.27 | y | 1.434e+06 | 14.841 |
| 33:54 | 2.686e+05 | 2.267e+05 | 1.18 | y | 4.953e+05 | 5.1264 |
| 34:10 | 1.395e+06 | 1.099e+06 | 1.27 | y | 2.495e+06 | 25.822 |
| 34:18 | 8.646e+04 | 6.167e+04 | 1.40 | y | 1.481e+05 | 1.5332 |
| 34:53 | 7.381e+04 | 6.510e+04 | 1.13 | y | 1.389e+05 | 1.4569 1,2,3,4,7,8-HxCDD |
| 34:59 | 3.265e+05 | 2.449e+05 | 1.33 | y | 5.714e+05 | 5.7788 1,2,3,6,7,8-HxCDD |
| 35:11 | 5.842e+04 | 4.904e+04 | 1.19 | y | 1.075e+05 | 1.1123 |
| 35:18 | 2.014e+05 | 1.488e+05 | 1.35 | y | 3.502e+05 | 3.6485 1,2,3,7,8,9-HxCDD |

Totals class: HpCDD EMPC

Entry #: 25

Run: 13 File: 140917D1 S: 10 I: 1 F: 4

Acquired: 17-SEP-14 20:26:43 Processed: 18-SEP-14 09:39:51

Total Concentration: 385.64

Unnamed Concentration: 198.792

| RT | m1 Resp | m2 Resp | RA | | Resp Concentration | Name |
|-------|-----------|-----------|--------|-----------|--------------------|---------------------|
| 37:55 | 8.187e+06 | 7.850e+06 | 1.04 y | 1.604e+07 | 198.79 | |
| 38:44 | 7.656e+06 | 7.418e+06 | 1.03 y | 1.507e+07 | 186.85 | 1,2,3,4,6,7,8-HpCDD |

Totals class: TCDF EMPC Entry #: 27

Run: 13 File: 140917D1 S: 10 I: 1 F: 1
 Acquired: 17-SEP-14 20:26:43 Processed: 18-SEP-14 09:39:51

Total Concentration: 16.252 Unnamed Concentration: 15.261

| RT | m1 Resp | m2 Resp | RA | | Resp Concentration | Name |
|-------|-----------|-----------|------|---|--------------------|---------|
| 21:37 | 1.945e+04 | 2.690e+04 | 0.72 | y | 4.635e+04 | 0.34377 |
| 22:12 | 2.694e+04 | 3.808e+04 | 0.71 | y | 6.501e+04 | 0.48220 |
| 22:49 | 8.308e+04 | 1.115e+05 | 0.75 | y | 1.945e+05 | 1.4430 |
| 23:19 | 9.835e+04 | 1.286e+05 | 0.76 | y | 2.270e+05 | 1.6834 |
| 23:42 | 7.119e+04 | 1.033e+05 | 0.69 | y | 1.745e+05 | 1.2945 |
| 24:07 | 5.716e+04 | 7.174e+04 | 0.80 | y | 1.289e+05 | 0.95604 |
| 24:14 | 3.091e+04 | 4.426e+04 | 0.70 | y | 7.517e+04 | 0.55751 |
| 24:23 | 3.139e+04 | 4.219e+04 | 0.74 | y | 7.358e+04 | 0.54574 |
| 24:44 | 1.732e+04 | 2.238e+04 | 0.77 | y | 3.970e+04 | 0.29443 |
| 24:51 | 4.183e+04 | 4.732e+04 | 0.88 | y | 8.916e+04 | 0.66127 |
| 24:58 | 6.640e+04 | 7.805e+04 | 0.85 | y | 1.445e+05 | 1.0714 |
| 25:06 | 8.523e+04 | 1.101e+05 | 0.77 | y | 1.954e+05 | 1.4490 |
| 25:30 | 6.533e+04 | 7.443e+04 | 0.88 | y | 1.398e+05 | 1.0366 |
| 25:45 | 2.908e+04 | 3.723e+04 | 0.78 | y | 6.631e+04 | 0.49180 |
| 25:55 | 2.954e+04 | 4.044e+04 | 0.73 | y | 6.998e+04 | 0.51903 |
| 26:06 | 2.248e+04 | 3.317e+04 | 0.68 | y | 5.565e+04 | 0.41274 |
| 26:11 | 2.180e+04 | 3.097e+04 | 0.70 | y | 5.277e+04 | 0.39137 |
| 26:17 | 5.819e+04 | 7.539e+04 | 0.77 | y | 1.336e+05 | 0.99076 |
| 26:37 | 8.740e+04 | 1.139e+05 | 0.77 | y | 2.013e+05 | 1.4934 |
| 28:02 | 8.302e+03 | 9.735e+03 | 0.85 | y | 1.804e+04 | 0.13378 |

2,3,7,8-TCDF

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 13 File: 140917D1 S: 10 I: 1 F: 1
Acquired: 17-SEP-14 20:26:43 Processed: 18-SEP-14 09:39:51

Total Concentration: 4.2749 Unnamed Concentration: 4.275

| RT | m1 Resp | m2 Resp | RA | Resp Concentration | Name |
|-------|-----------|-----------|--------|--------------------|--------|
| 28:02 | 4.243e+05 | 2.754e+05 | 1.54 y | 6.997e+05 | 4.2749 |

Totals class: PeCDF EMPC

Entry #: 31

Run: 13 File: 140917D1 S: 10 I: 1 F: 2
 Acquired: 17-SEP-14 20:26:43 Processed: 18-SEP-14 09:39:51

Total Concentration: 11.731

Unnamed Concentration: 9.878

| RT | m1 Resp | m2 Resp | RA | | Resp Concentration | Name |
|-------|-----------|-----------|------|---|--------------------|---------|
| 29:19 | 1.405e+05 | 8.361e+04 | 1.68 | y | 2.241e+05 | 1.3694 |
| 29:28 | 3.932e+05 | 2.658e+05 | 1.48 | y | 6.590e+05 | 4.0268 |
| 29:48 | 2.089e+04 | 1.464e+04 | 1.43 | y | 3.553e+04 | 0.21711 |
| 29:59 | 1.875e+05 | 1.231e+05 | 1.52 | y | 3.107e+05 | 1.8981 |
| 30:12 | 2.361e+04 | 1.725e+04 | 1.37 | y | 4.086e+04 | 0.24968 |
| 30:22 | 5.224e+04 | 3.041e+04 | 1.72 | y | 8.265e+04 | 0.51810 |
| 30:36 | 9.196e+04 | 5.916e+04 | 1.55 | y | 1.511e+05 | 0.92336 |
| 31:09 | 8.299e+04 | 4.674e+04 | 1.78 | y | 1.297e+05 | 0.79267 |
| 31:14 | 1.376e+05 | 8.622e+04 | 1.60 | y | 2.239e+05 | 1.3354 |
| 31:18 | 3.994e+04 | 2.563e+04 | 1.56 | y | 6.557e+04 | 0.40064 |

Totals class: HxCDF EMPC

Entry #: 33

Run: 13 File: 140917D1 S: 10 I: 1 F: 3
 Acquired: 17-SEP-14 20:26:43 Processed: 18-SEP-14 09:39:51

Total Concentration: 23.895 Unnamed Concentration: 19.758

| RT | m1 Resp | m2 Resp | RA | | Resp Concentration | Name |
|-------|-----------|-----------|------|---|--------------------|--------------------------|
| 32:47 | 2.683e+05 | 2.057e+05 | 1.30 | y | 4.740e+05 | 3.1371 |
| 32:56 | 9.379e+05 | 7.552e+05 | 1.24 | y | 1.693e+06 | 11.206 |
| 33:30 | 3.723e+05 | 3.109e+05 | 1.20 | y | 6.832e+05 | 4.5222 |
| 33:53 | 7.741e+04 | 5.745e+04 | 1.35 | y | 1.349e+05 | 0.89258 |
| 33:59 | 1.236e+05 | 9.880e+04 | 1.25 | y | 2.224e+05 | 1.2862 1,2,3,4,7,8-HxCDF |
| 34:06 | 1.157e+05 | 9.396e+04 | 1.23 | y | 2.096e+05 | 1.3275 1,2,3,6,7,8-HxCDF |
| 34:43 | 1.291e+05 | 1.051e+05 | 1.23 | y | 2.342e+05 | 1.5233 2,3,4,6,7,8-HxCDF |

Totals class: HpCDF EMPC

Entry #: 35

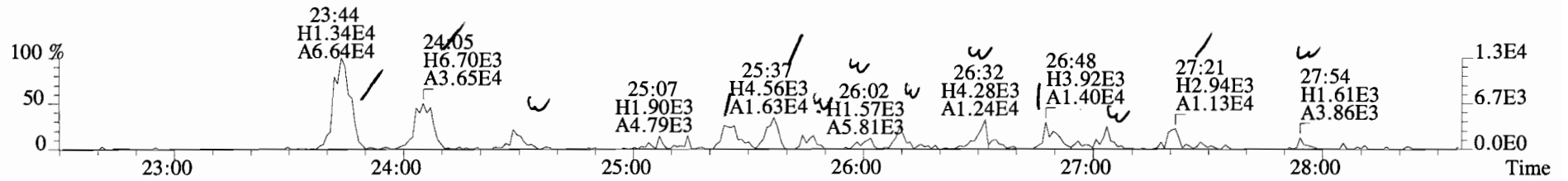
Run: 13 File: 140917D1 S: 10 I: 1 F: 4
Acquired: 17-SEP-14 20:26:43 Processed: 18-SEP-14 09:39:51

Total Concentration: 39.240

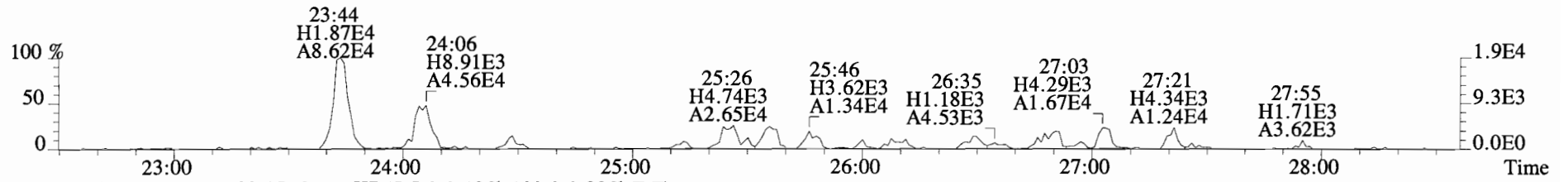
Unnamed Concentration: 19.613

| RT | m1 Resp | m2 Resp | RA | | Resp Concentration | Name |
|-------|-----------|-----------|--------|-----------|--------------------|---------------------|
| 37:34 | 1.306e+06 | 1.215e+06 | 1.08 y | 2.521e+06 | 18.464 | 1,2,3,4,6,7,8-HpCDF |
| 37:55 | 5.977e+04 | 5.604e+04 | 1.07 y | 1.158e+05 | 0.86986 | |
| 38:07 | 1.306e+06 | 1.190e+06 | 1.10 y | 2.495e+06 | 18.743 | |
| 39:17 | 7.698e+04 | 7.360e+04 | 1.05 y | 1.506e+05 | 1.1631 | 1,2,3,4,7,8,9-HpCDF |

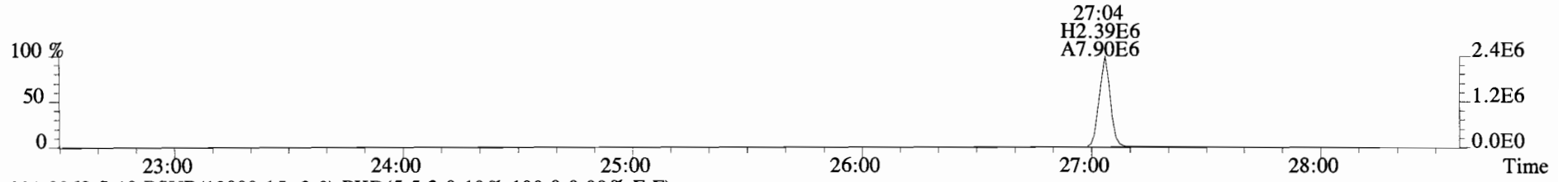
File:140917D1 #1-551 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text: Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
319.8965 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



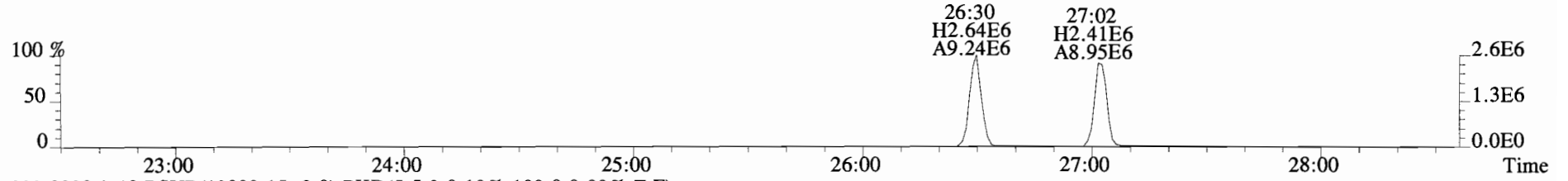
321.8936 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



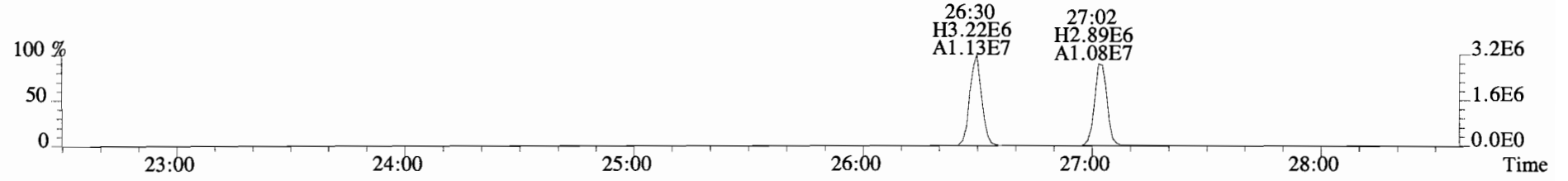
327.8847 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



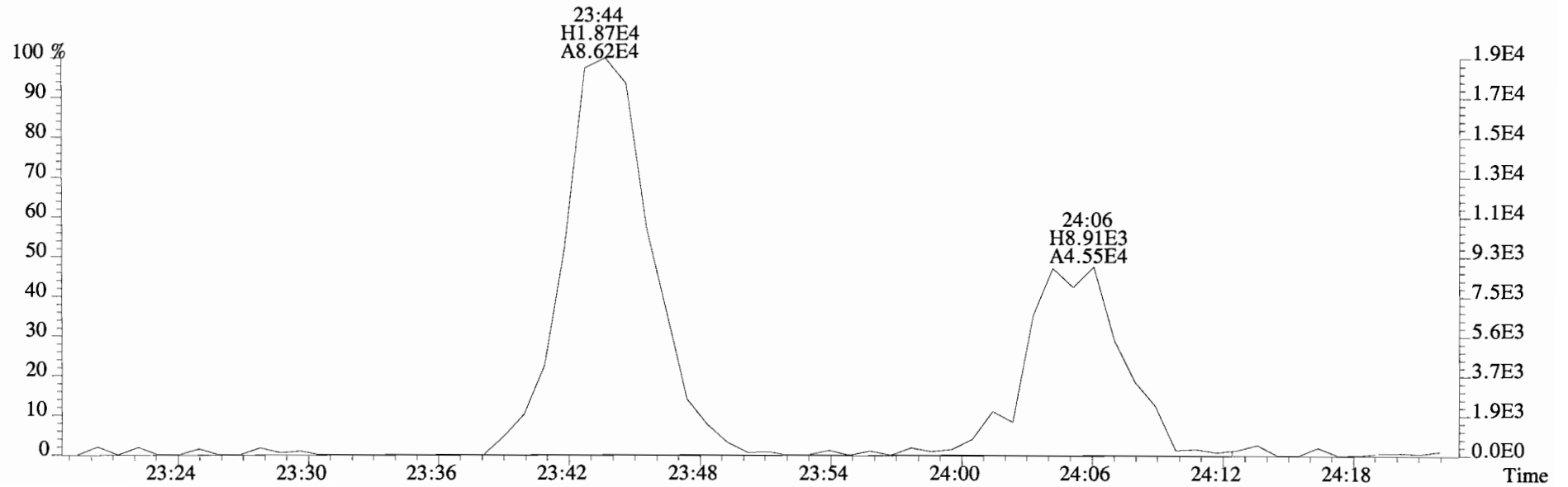
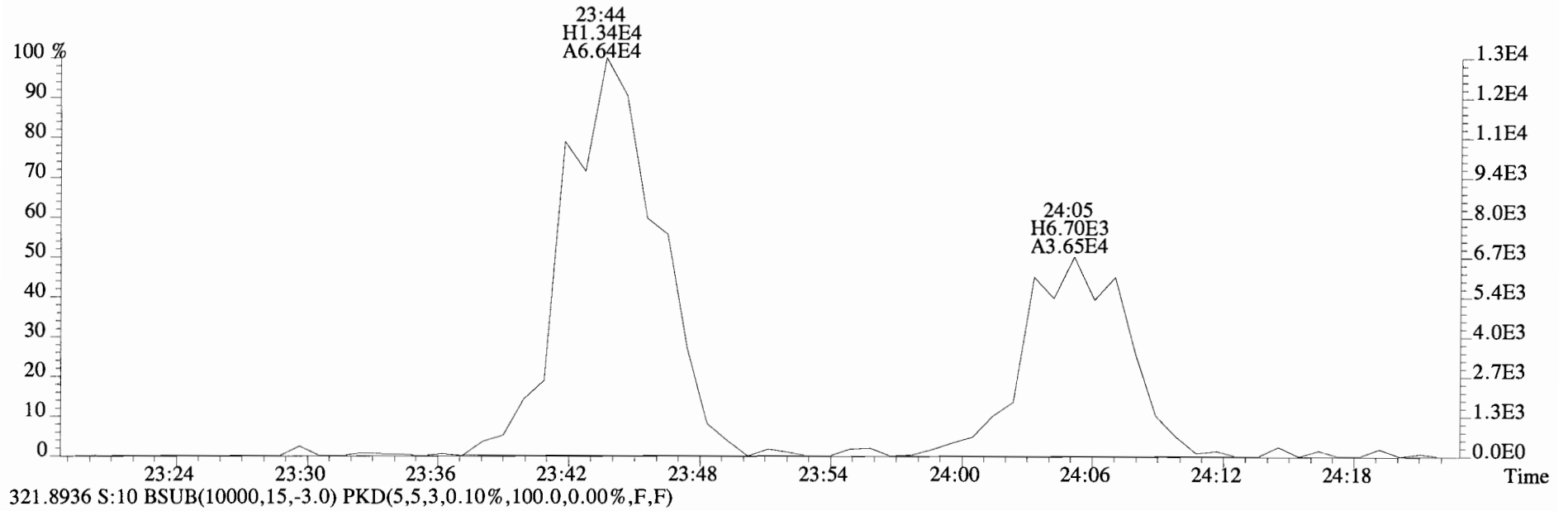
331.9368 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



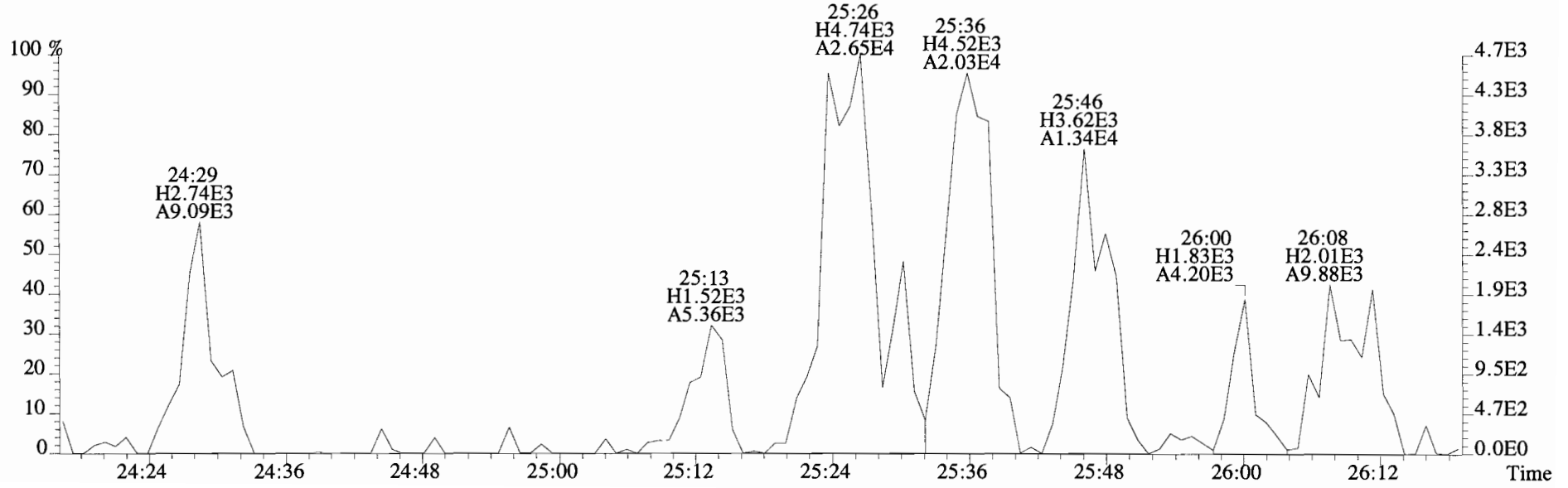
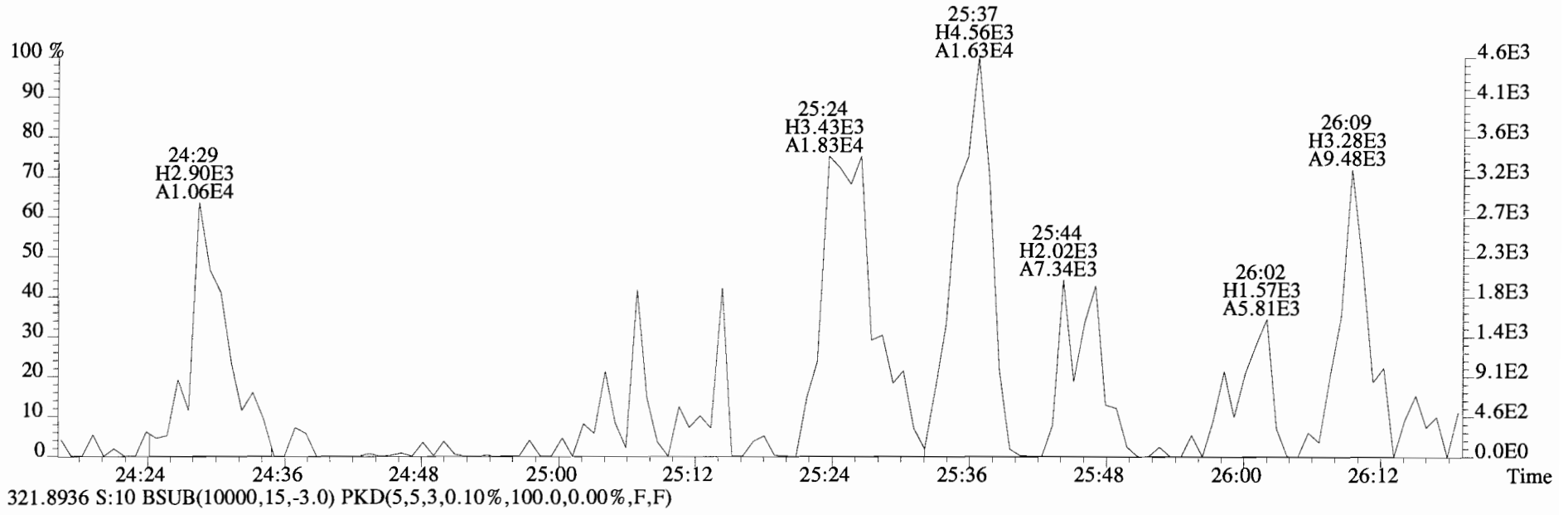
333.9339 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



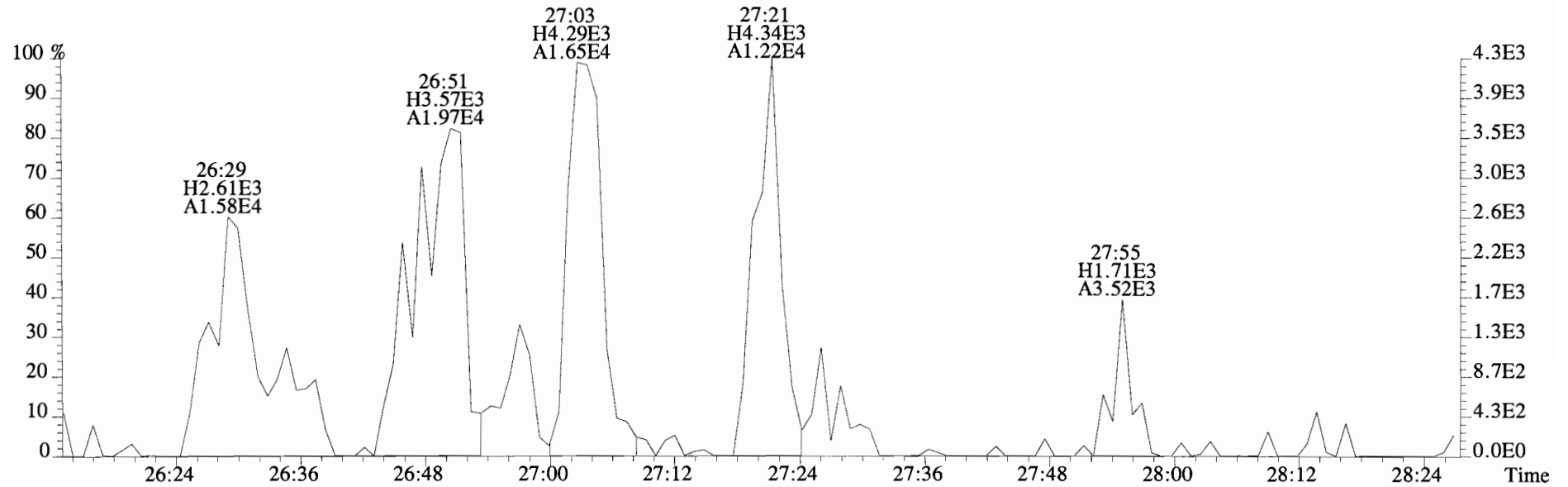
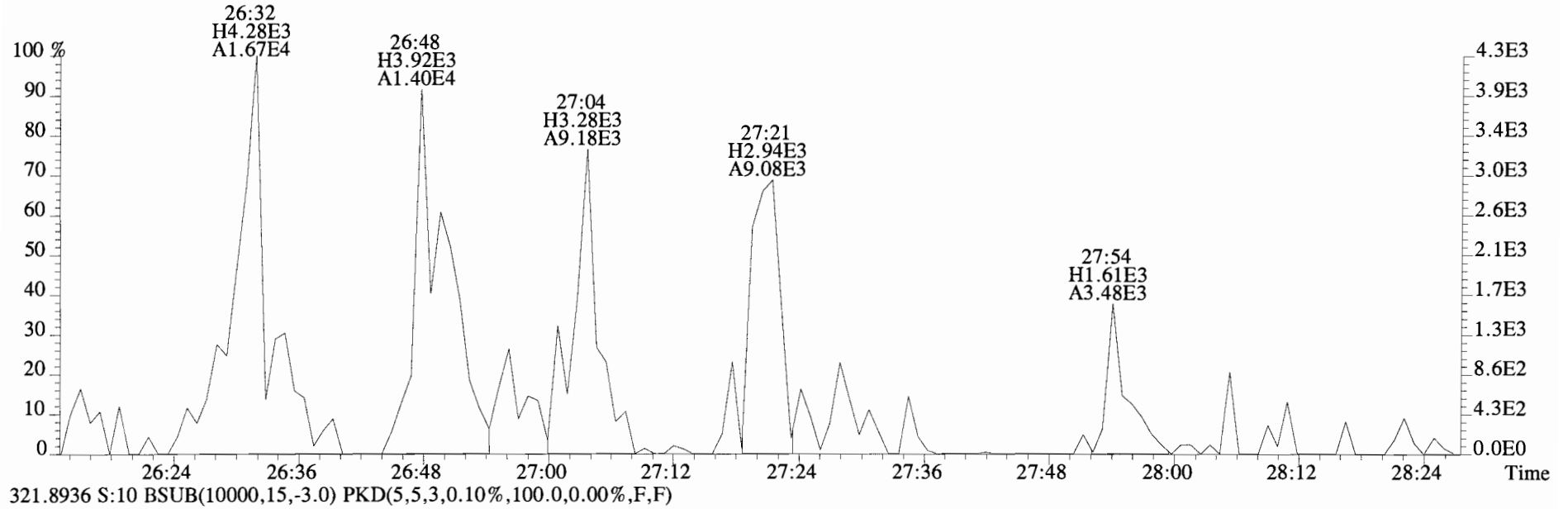
File:140917D1 #1-551 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
319.8965 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



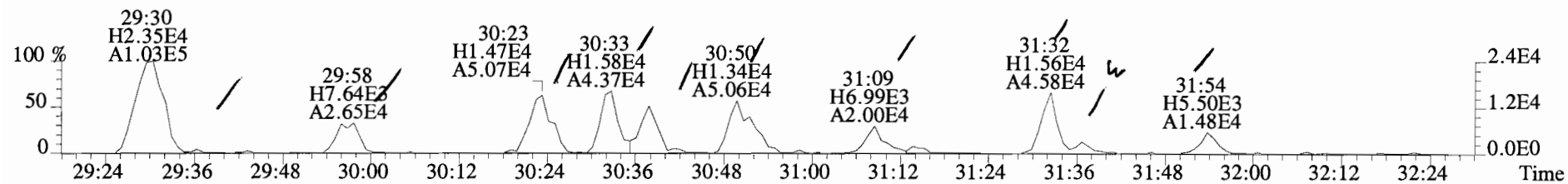
File:140917D1 #1-551 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
 319.8965 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



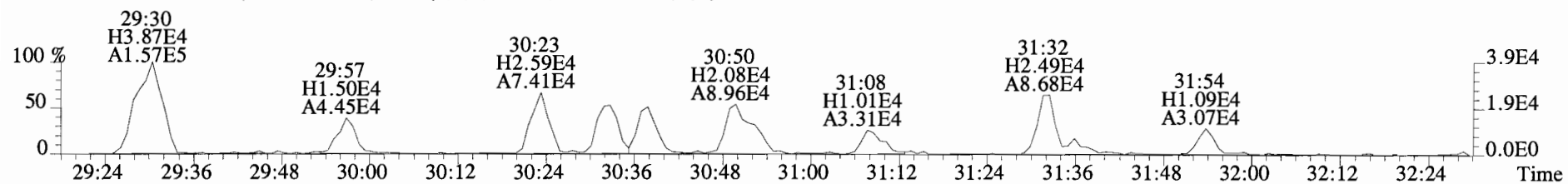
File:140917D1 #1-551 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
319.8965 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



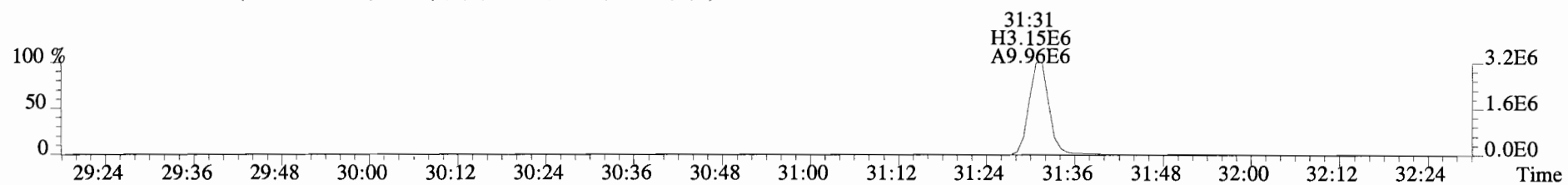
File:140917D1 #1-257 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
353.8576 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



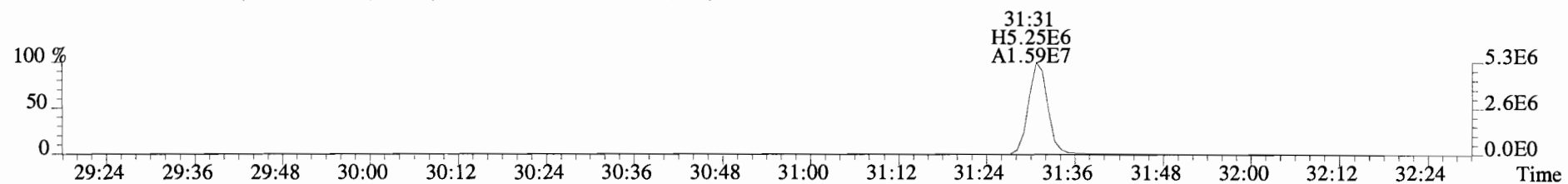
355.8546 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



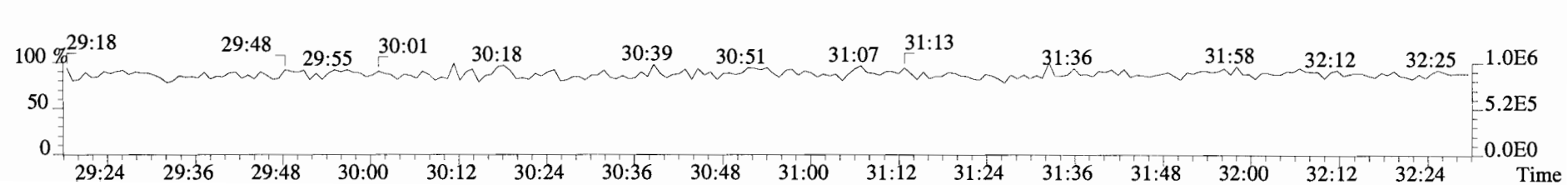
365.8978 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



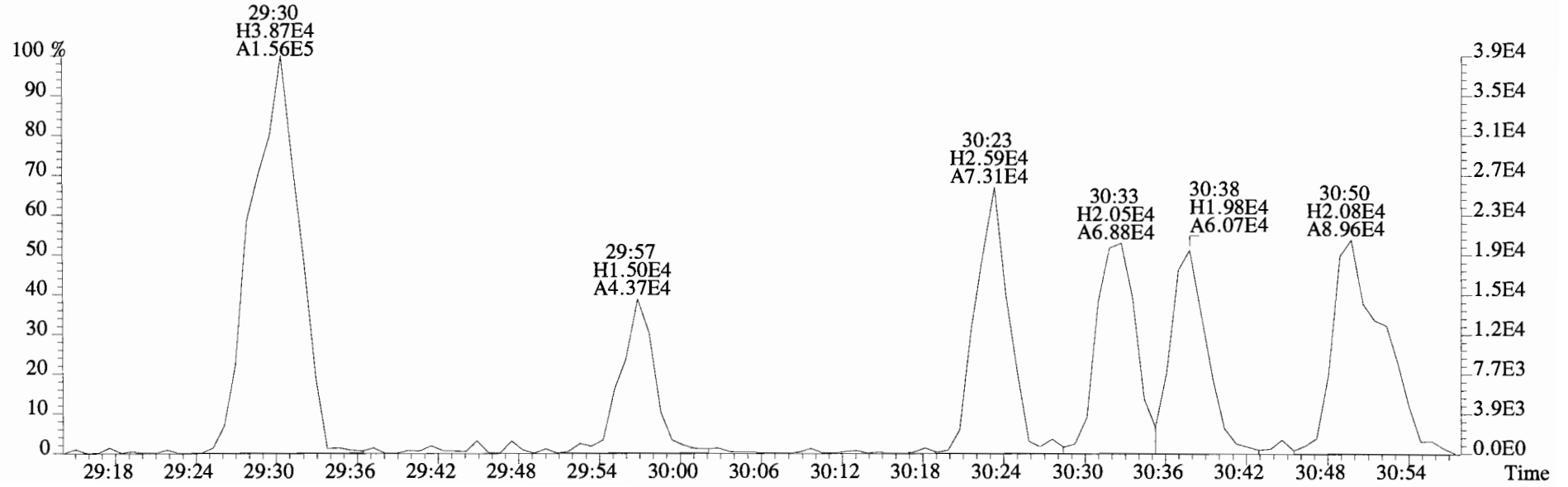
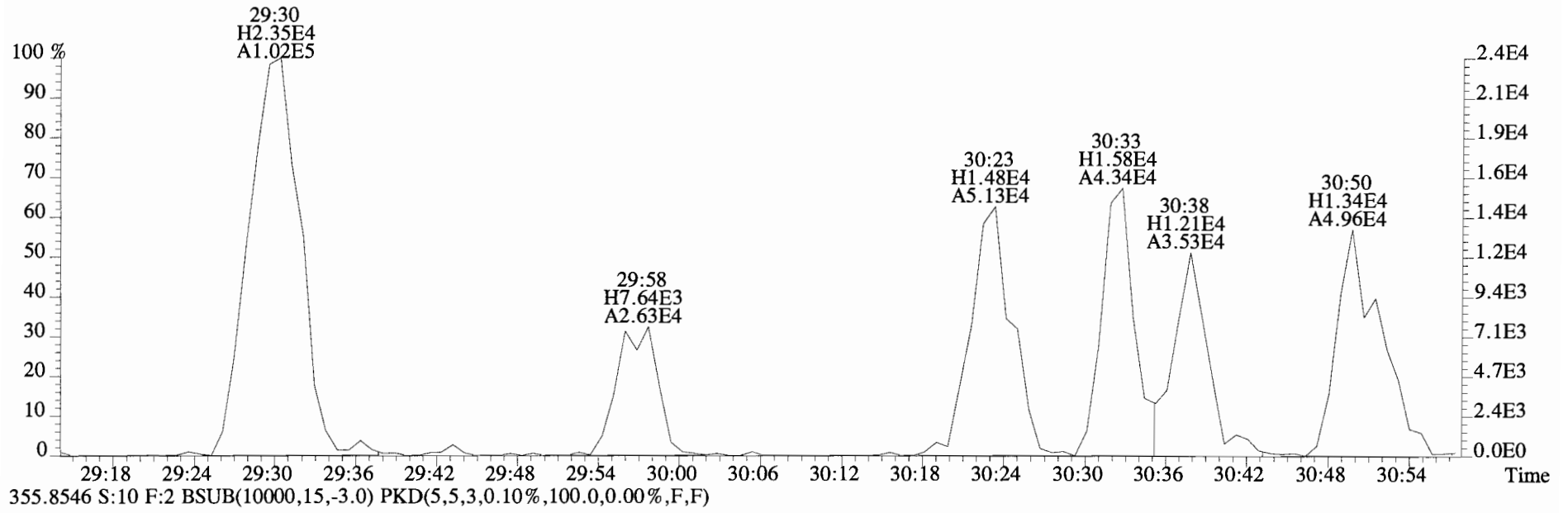
367.8949 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



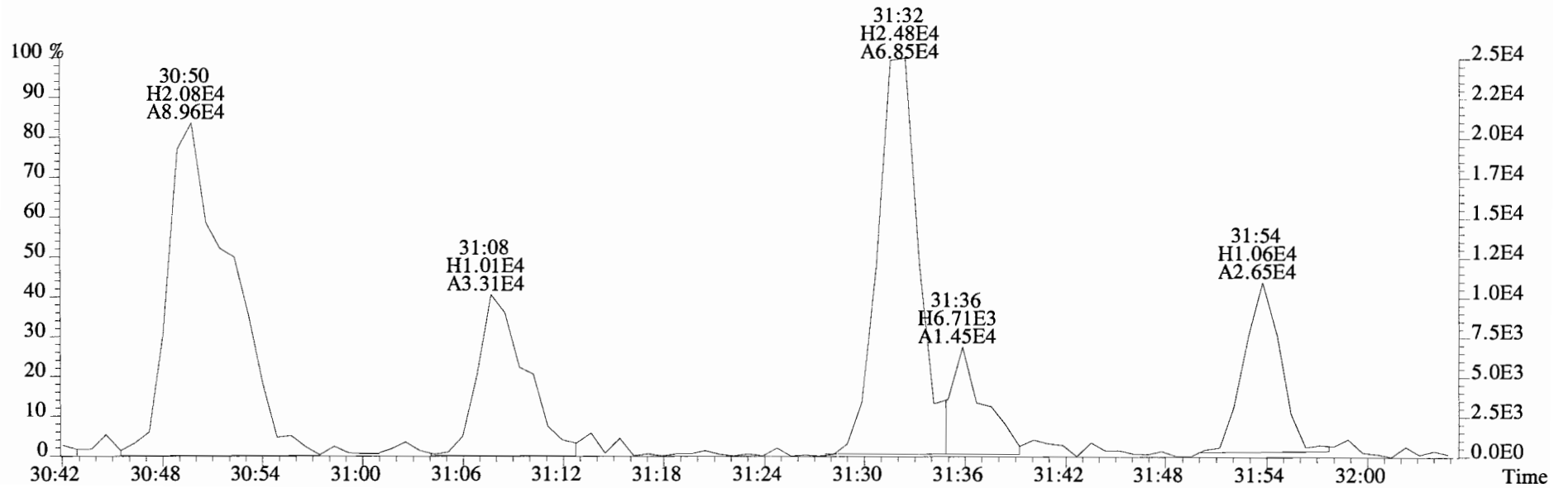
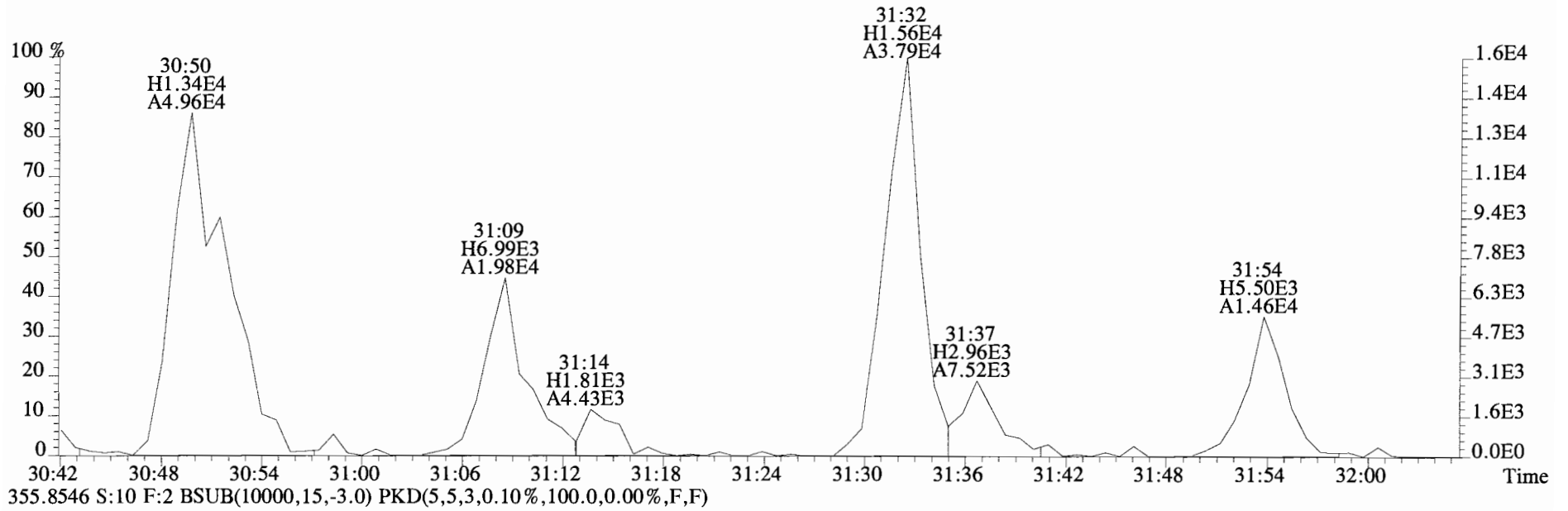
366.9792 S:10 F:2



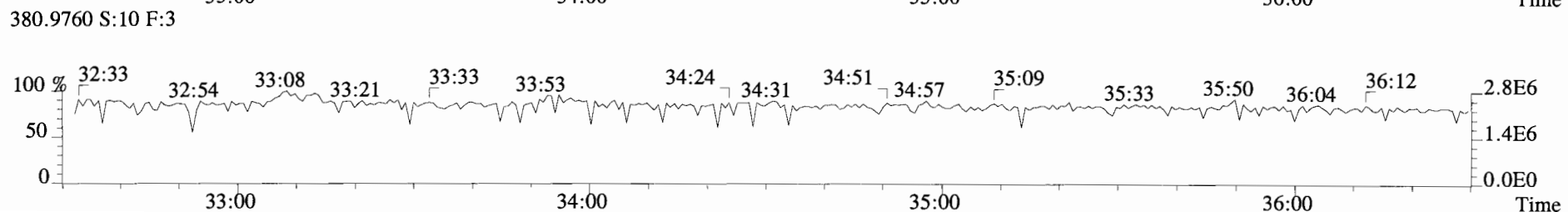
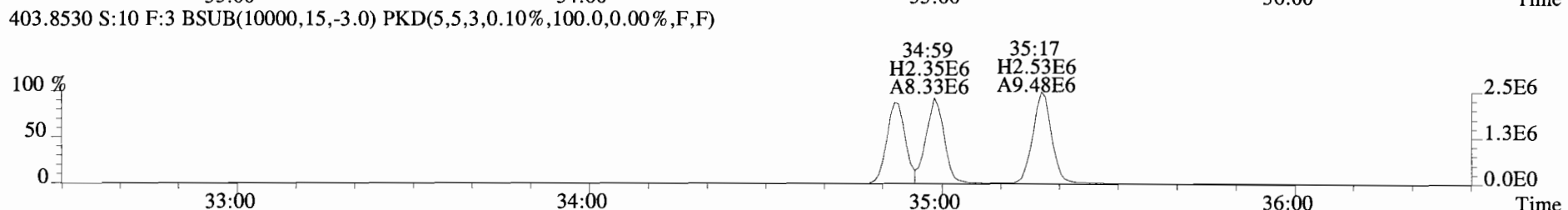
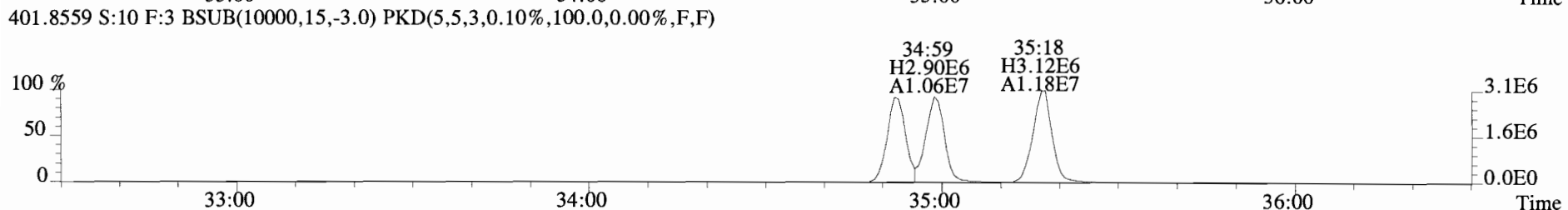
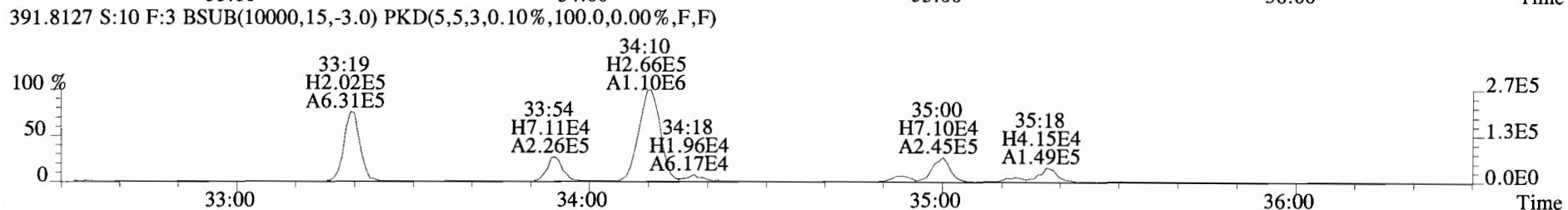
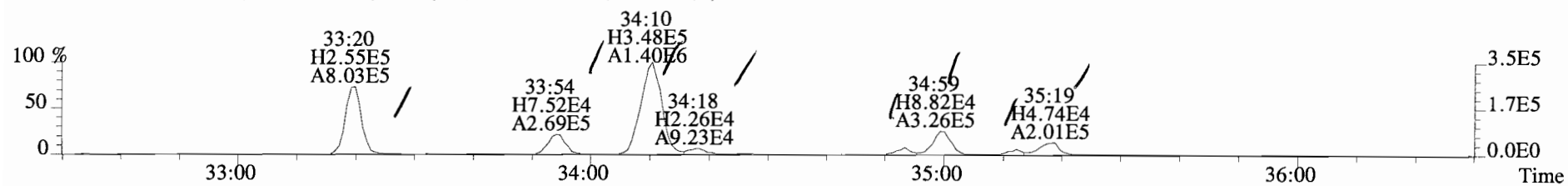
File:140917D1 #1-257 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
353.8576 S:10 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



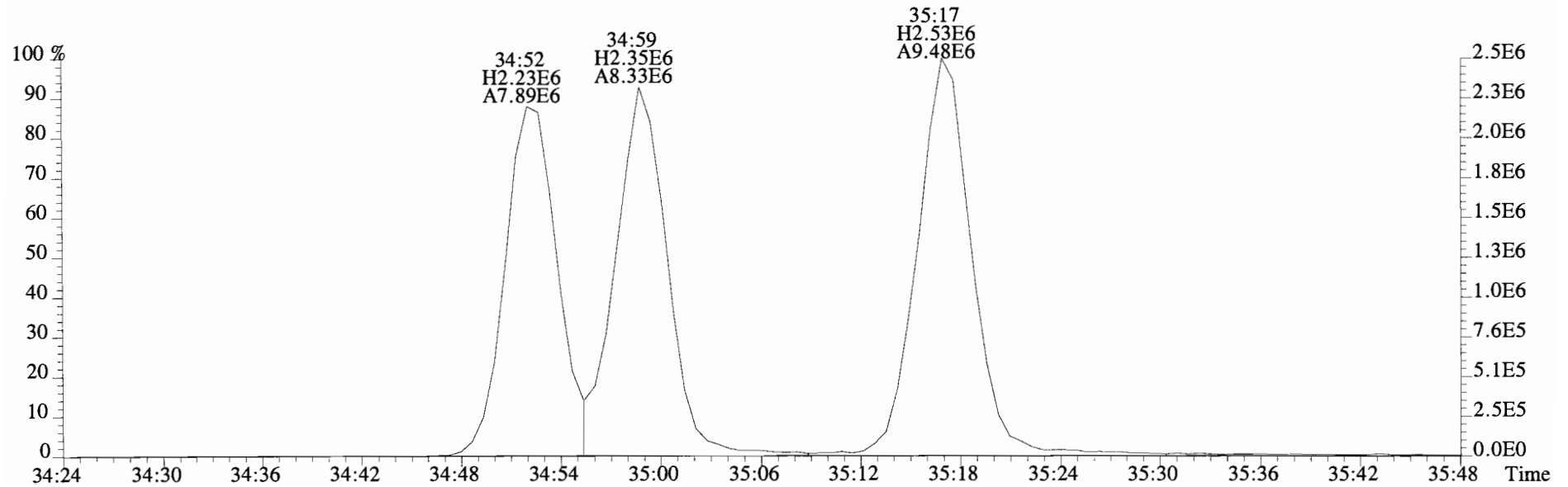
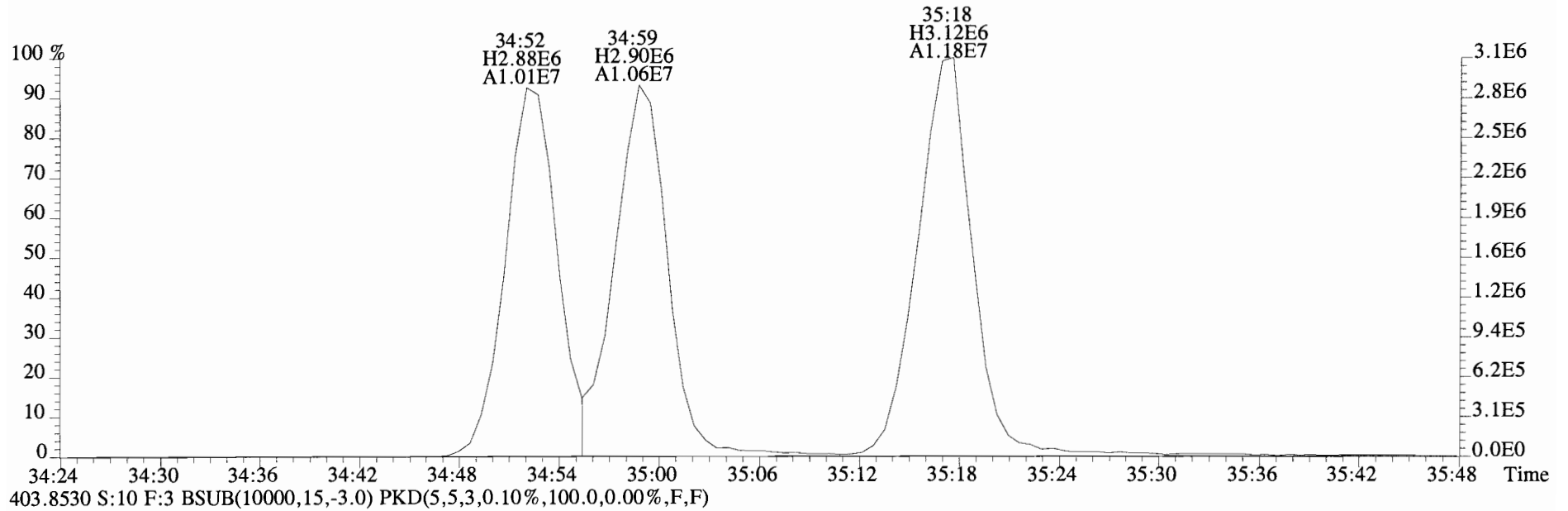
File:140917D1 #1-257 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
 353.8576 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



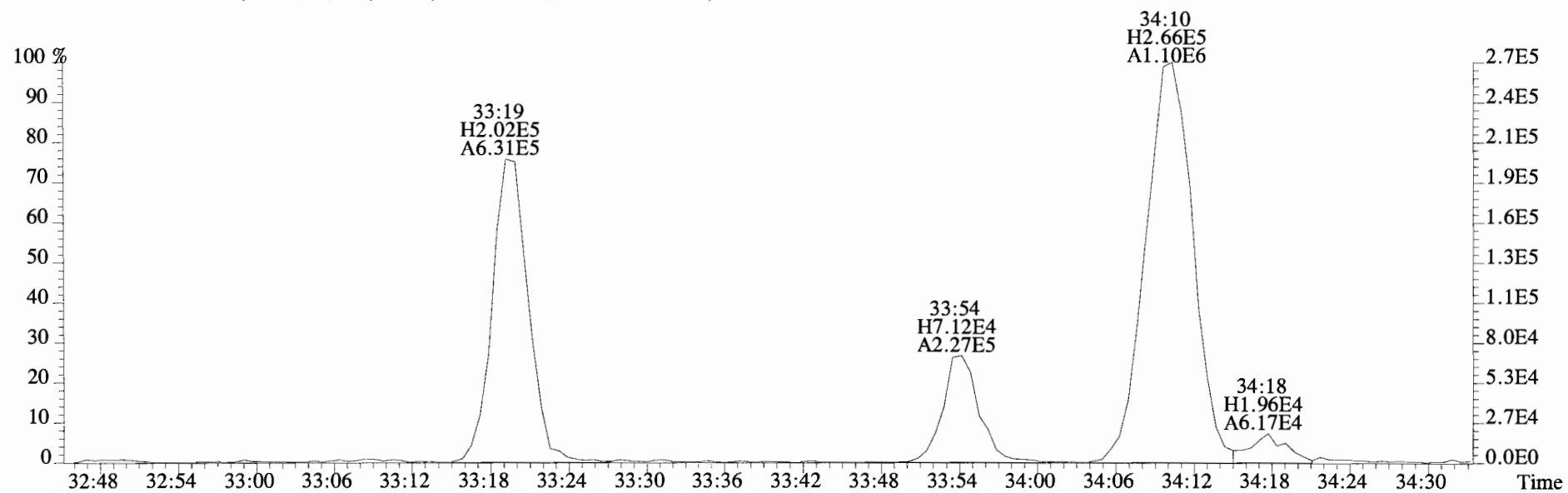
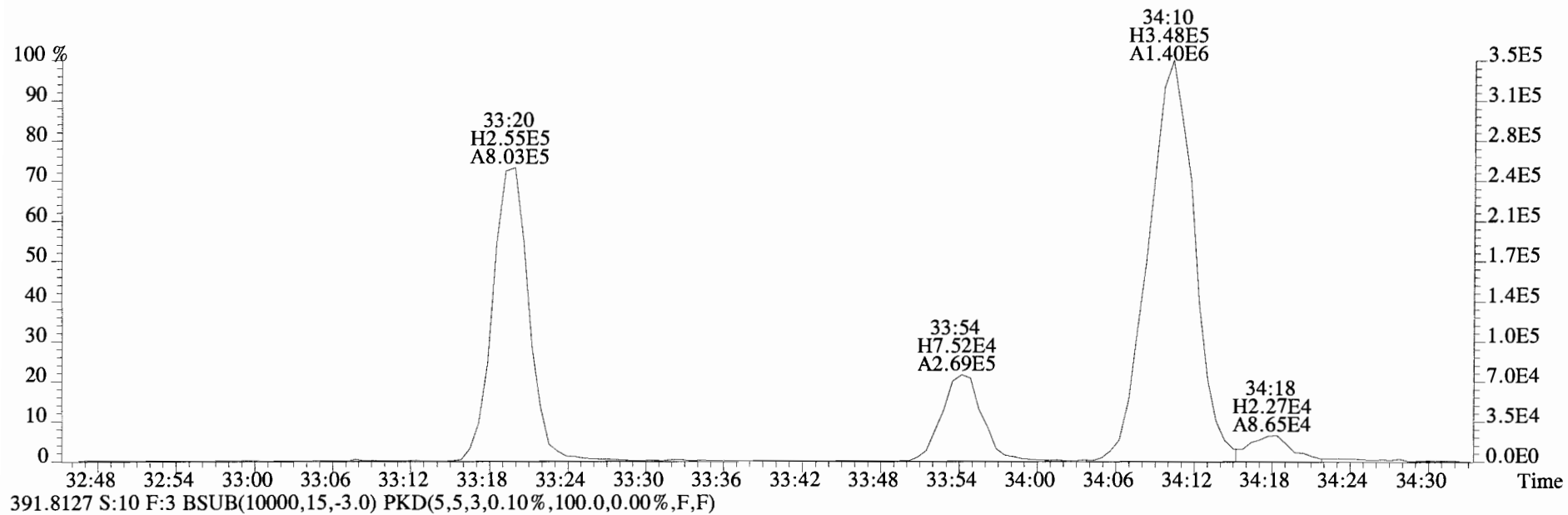
File:140917D1 #1-385 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
 389.8156 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



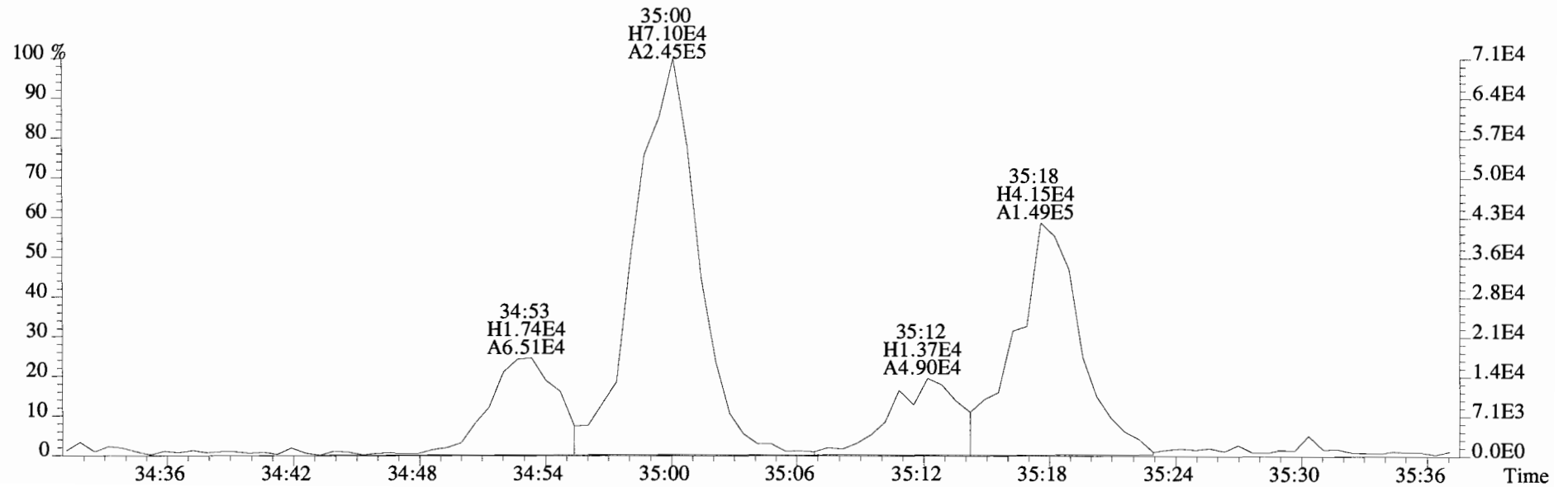
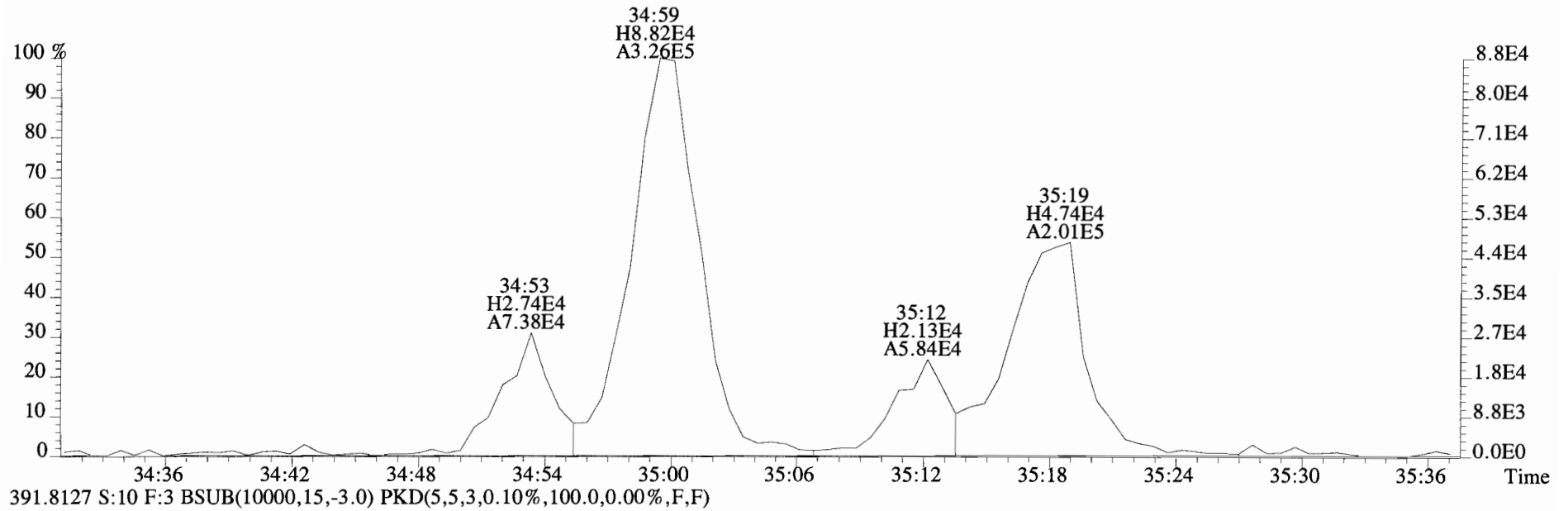
File:140917D1 #1-385 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
401.8559 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



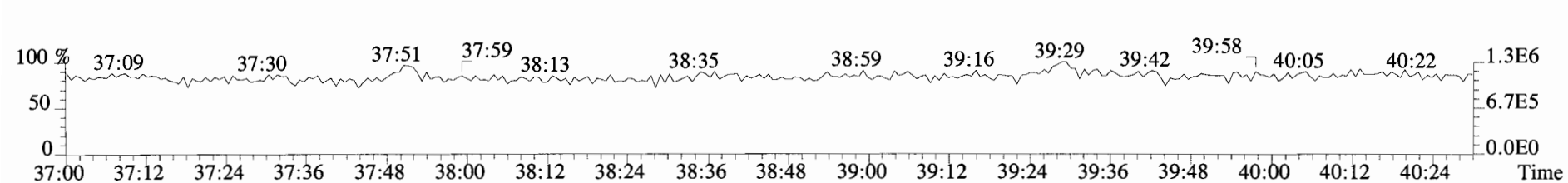
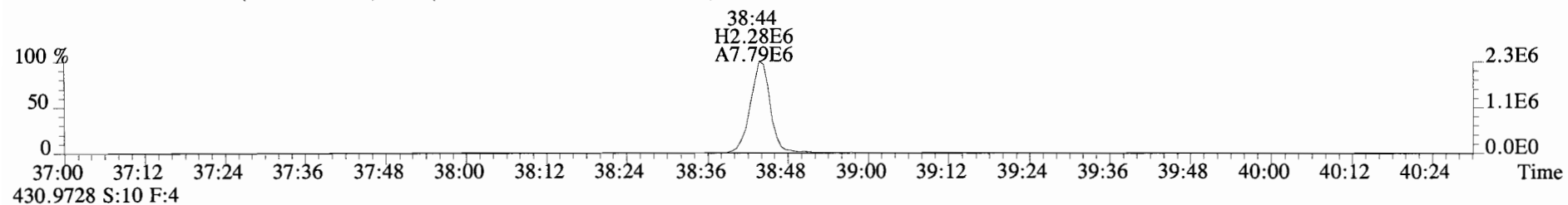
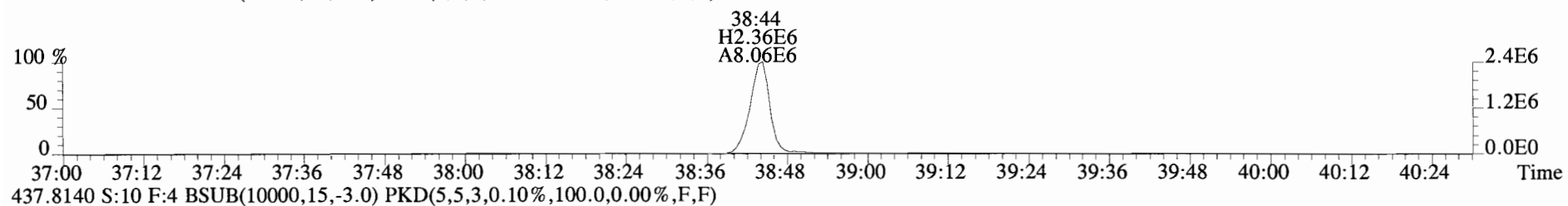
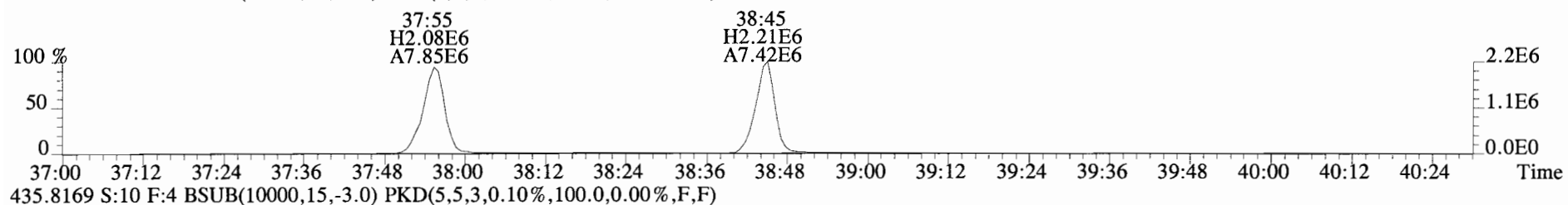
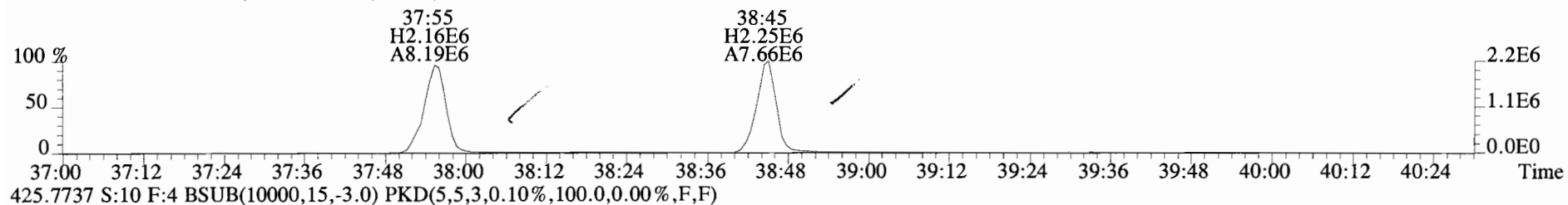
File:140917D1 #1-385 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
389.8156 S:10 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



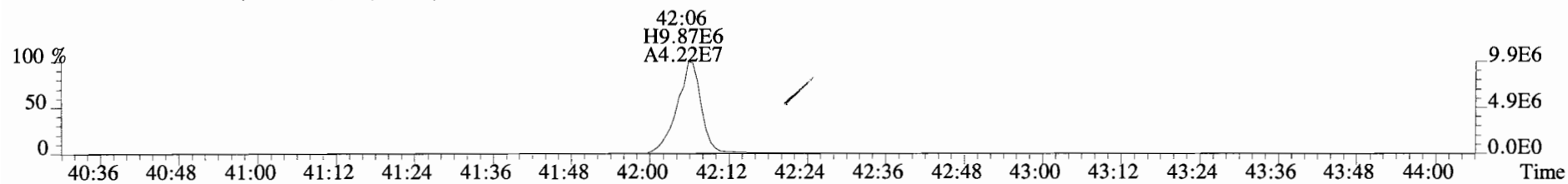
File:140917D1 #1-385 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
 389.8156 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



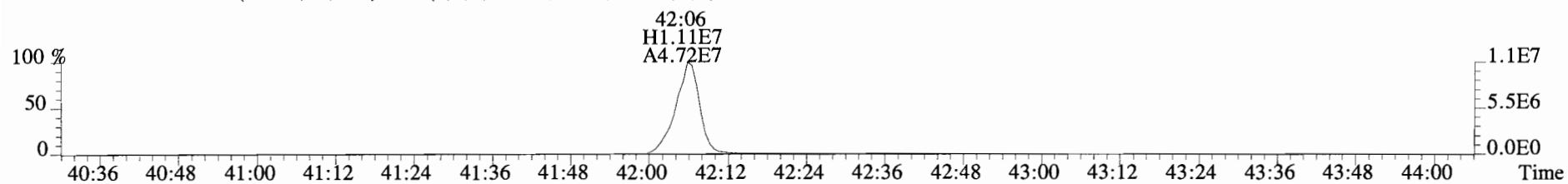
File:140917D1 #1-326 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
423.7767 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



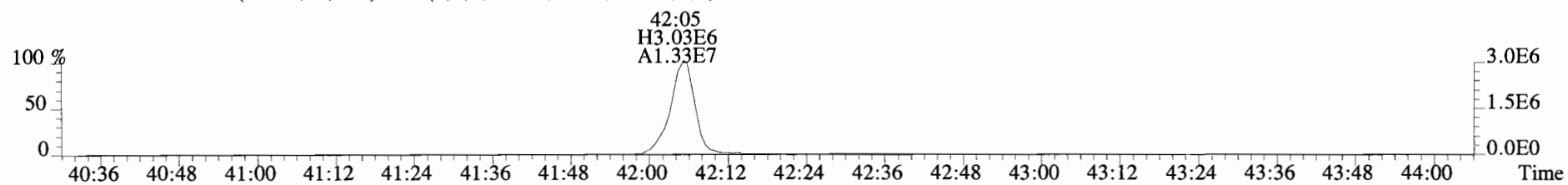
File:140917D1 #1-388 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
457.7377 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



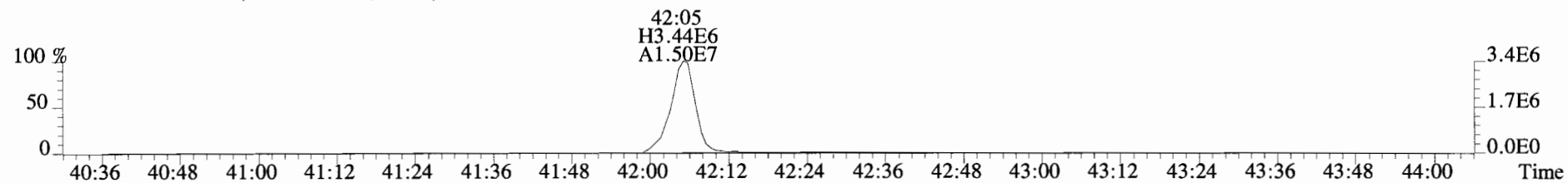
459.7348 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



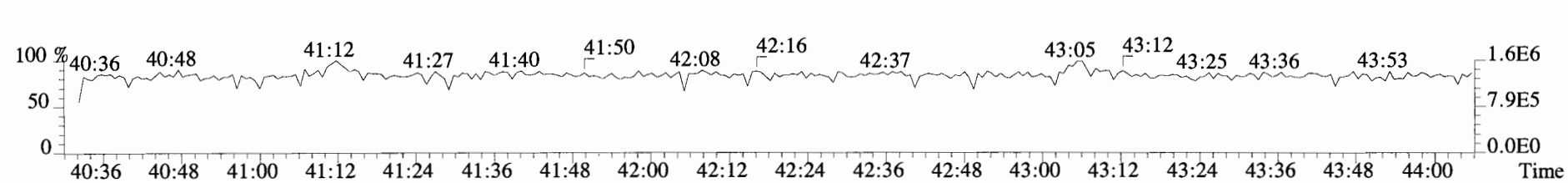
469.7780 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



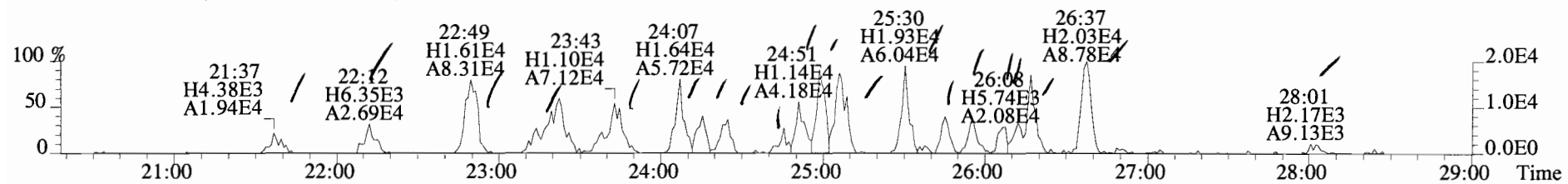
471.7750 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



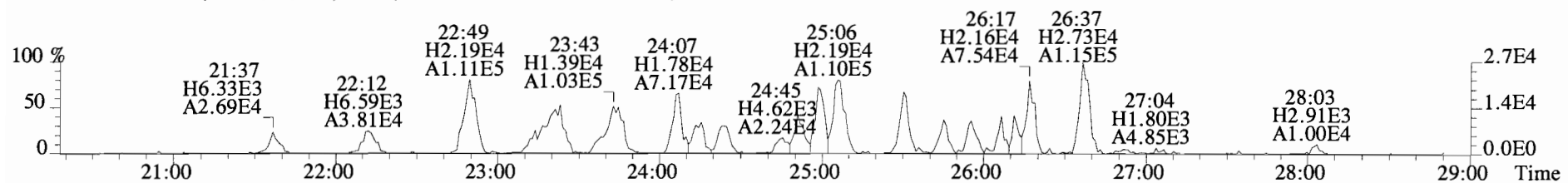
454.9728 S:10 F:5



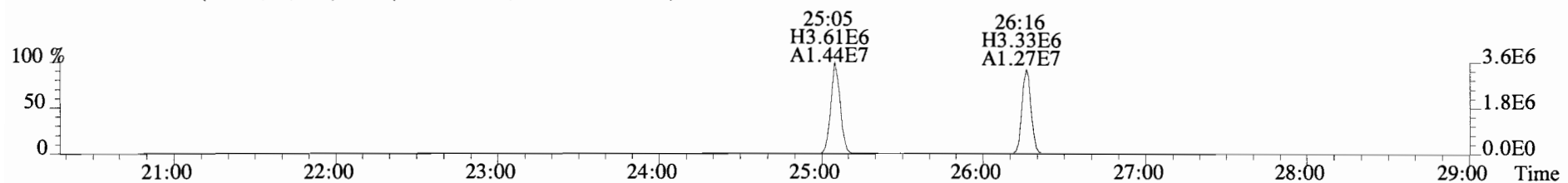
File:140917D1 #1-551 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
 303.9016 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



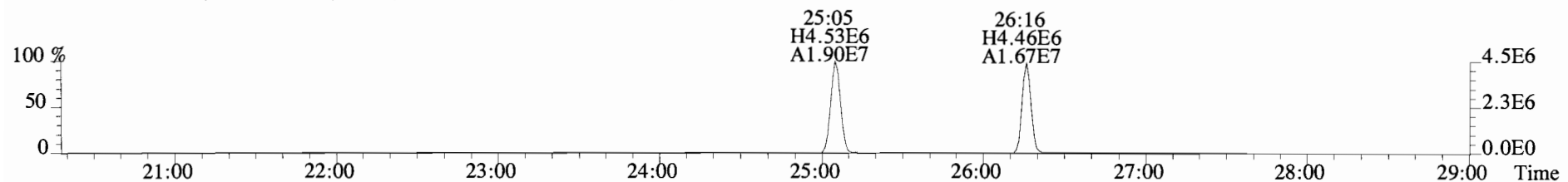
305.8987 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



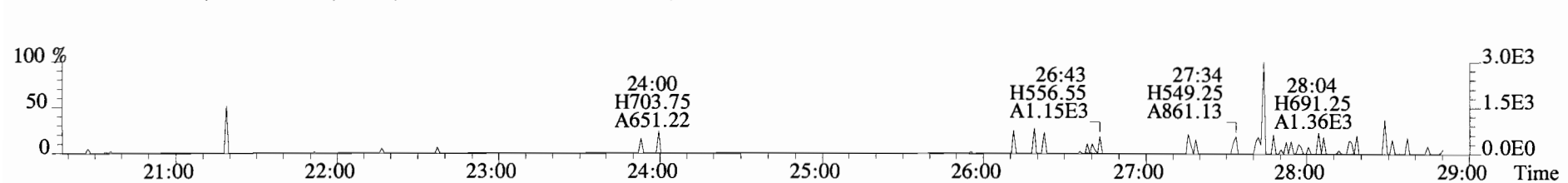
315.9419 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



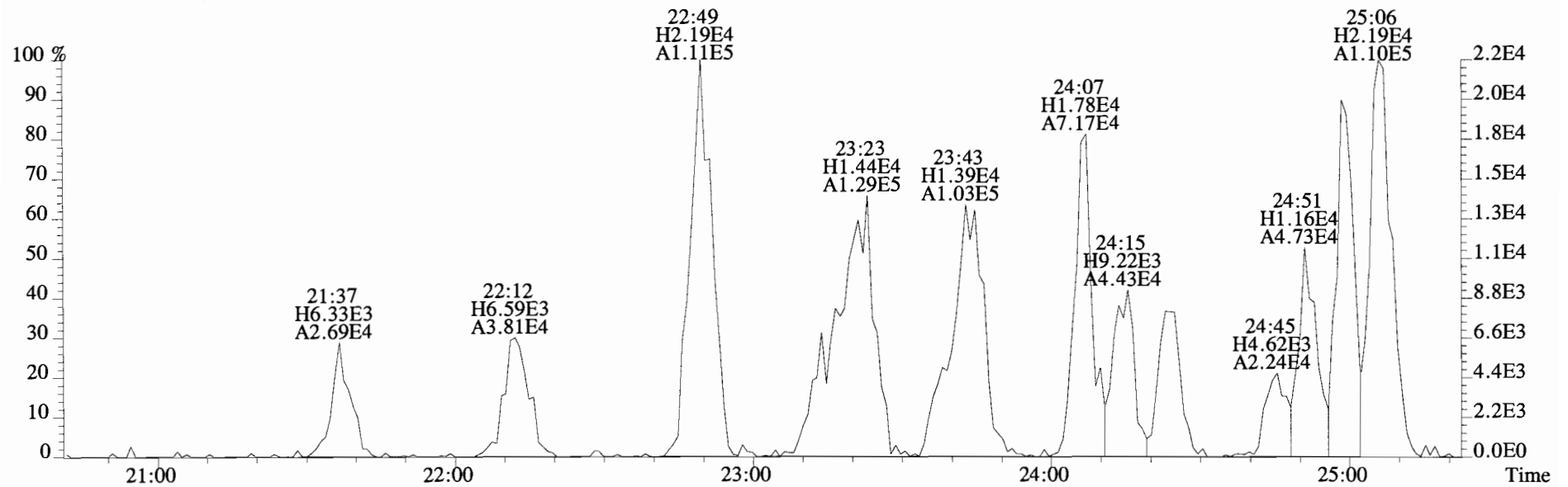
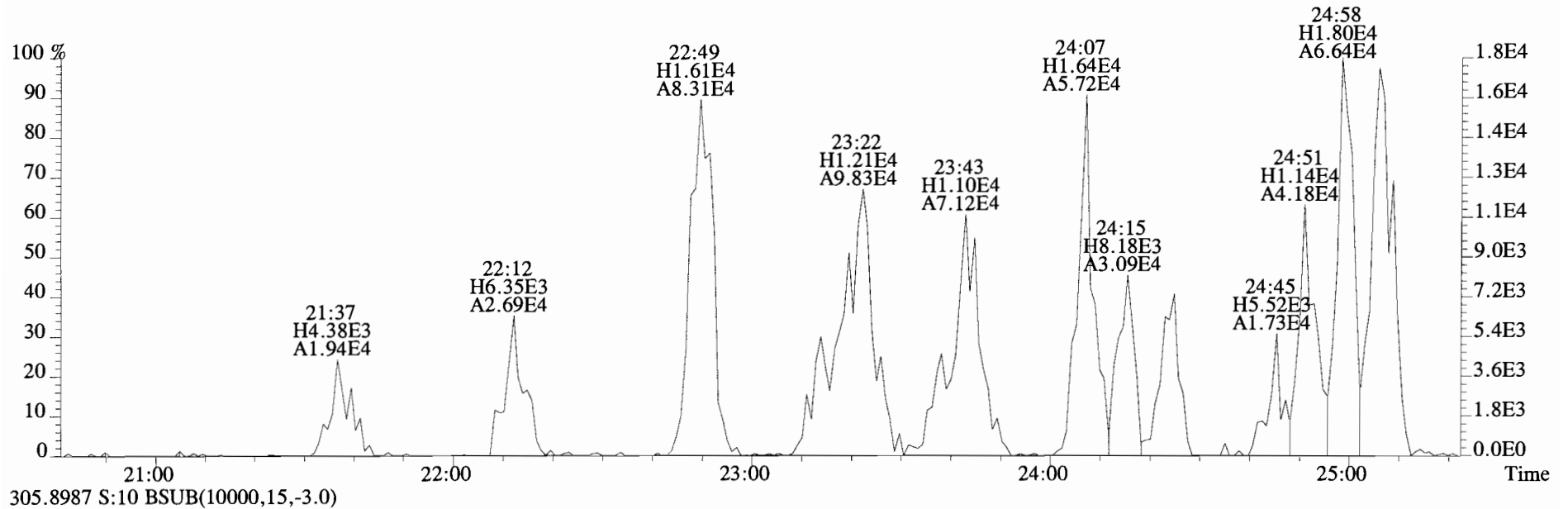
317.9389 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



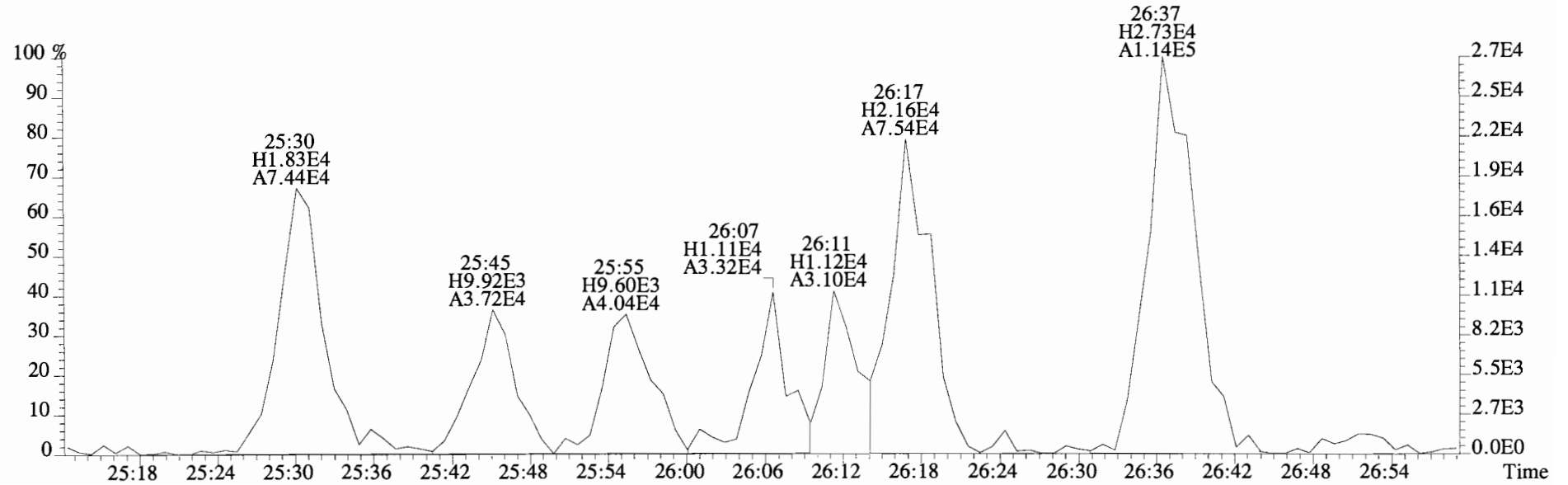
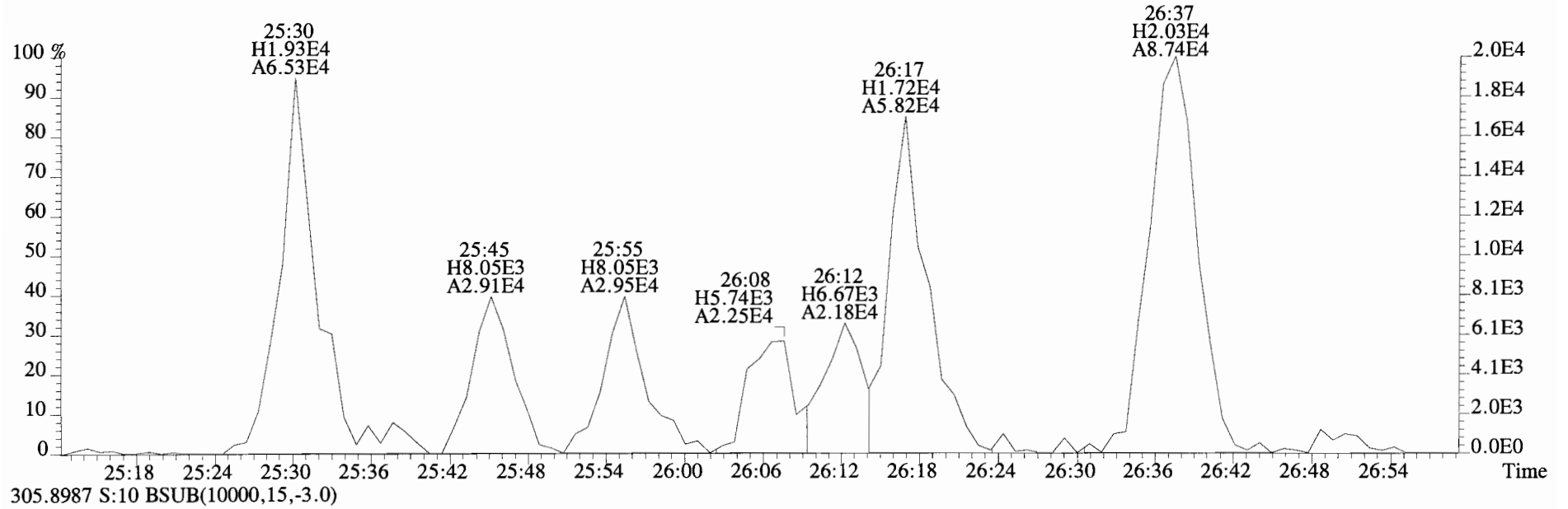
375.8364 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



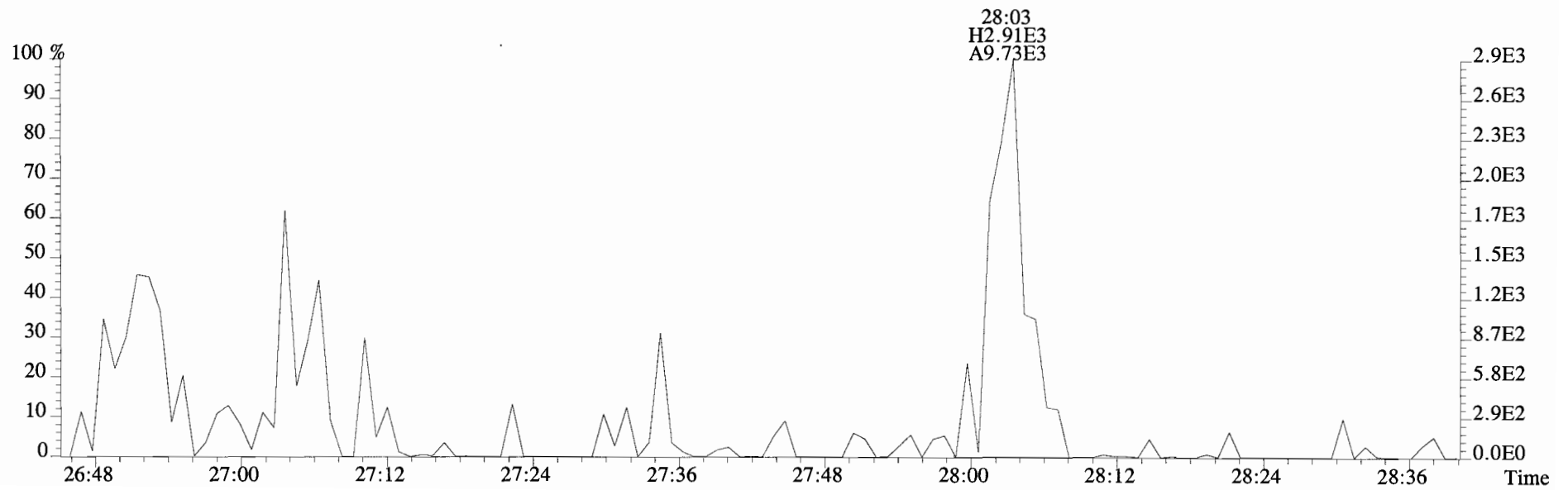
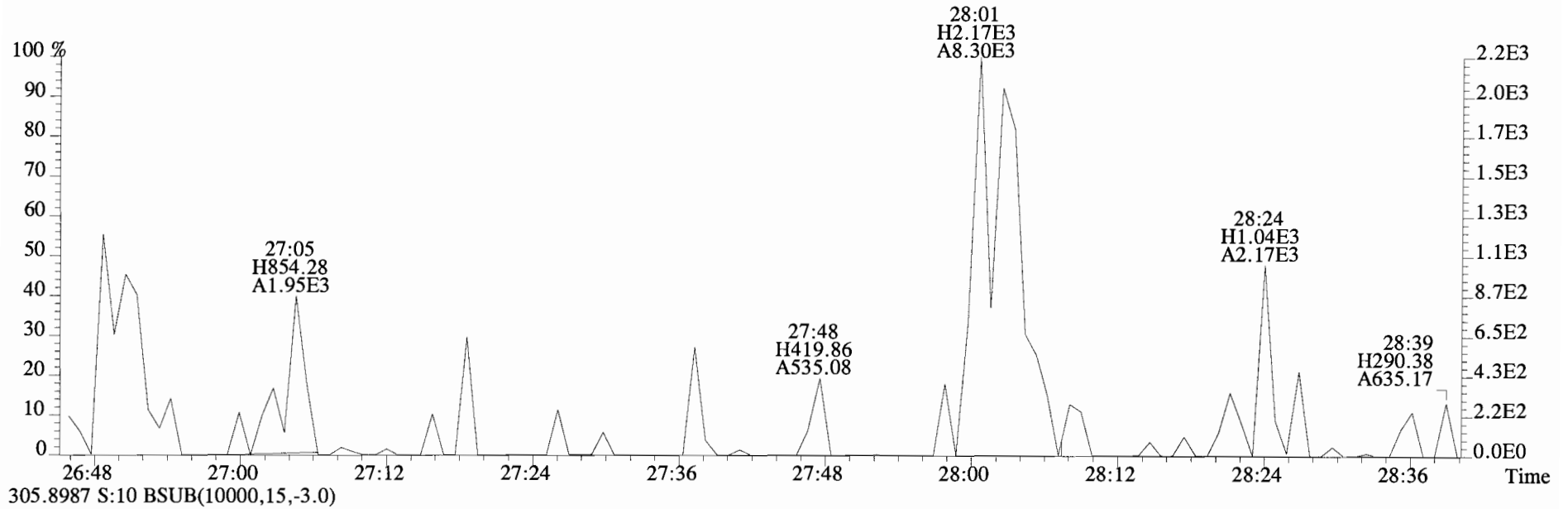
File:140917D1 #1-551 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
 303.9016 S:10 BSUB(10000,15,-3.0)



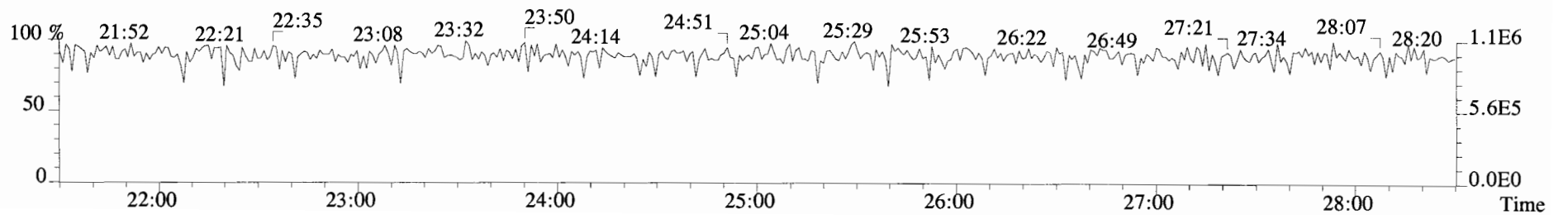
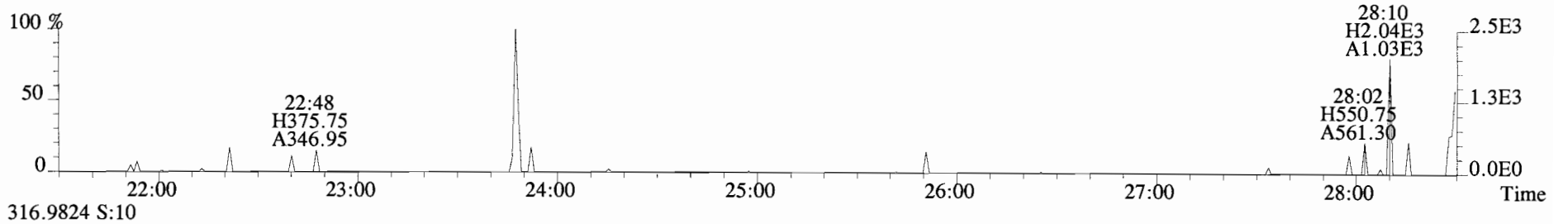
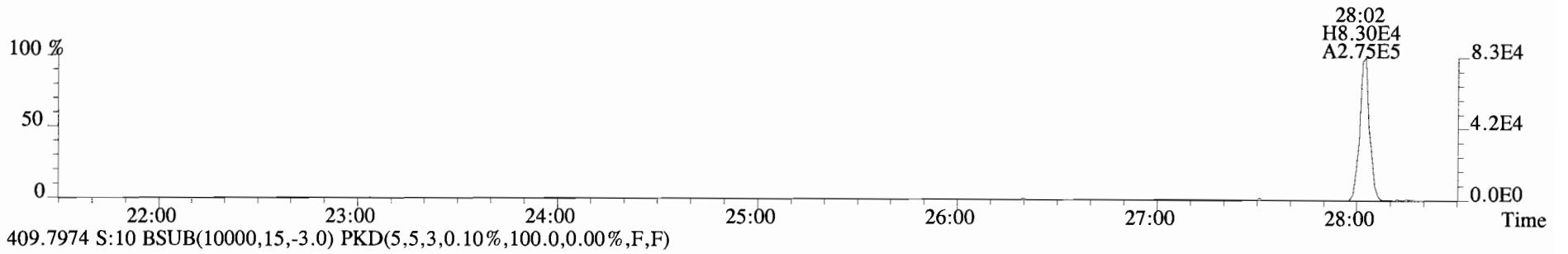
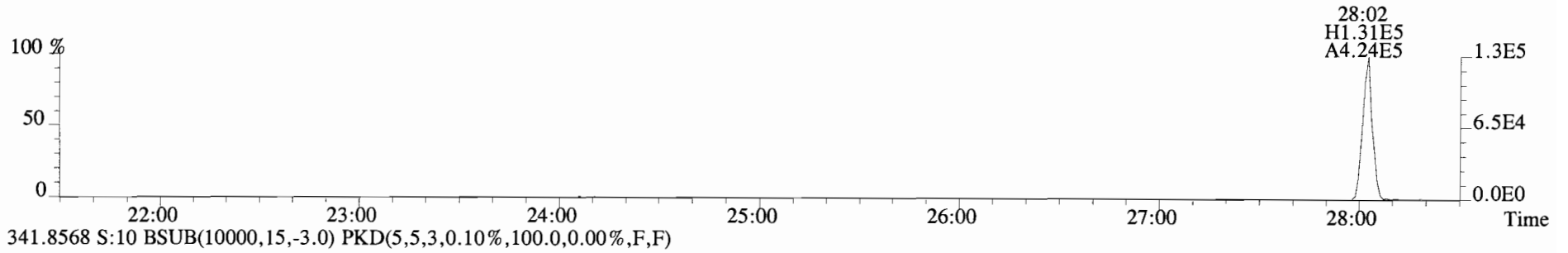
File:140917D1 #1-551 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
 303.9016 S:10 BSUB(10000,15,-3.0)



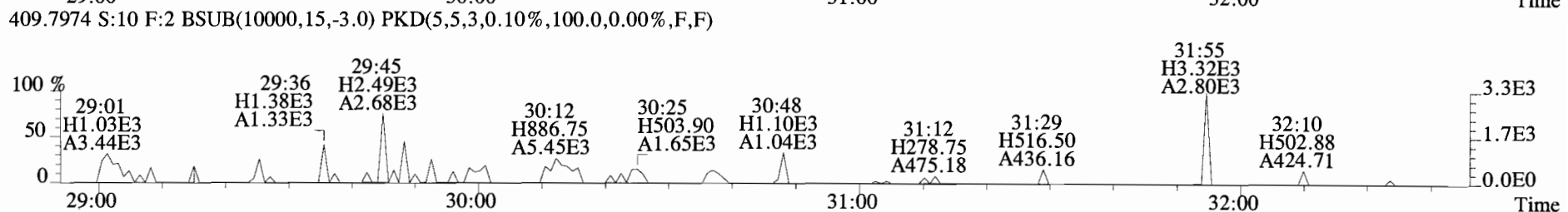
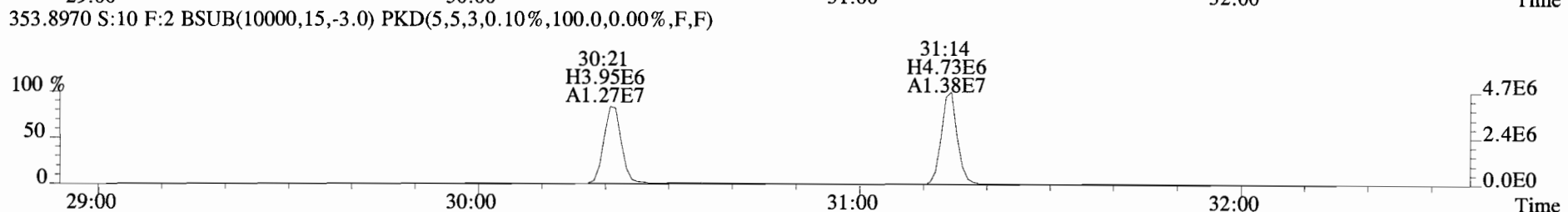
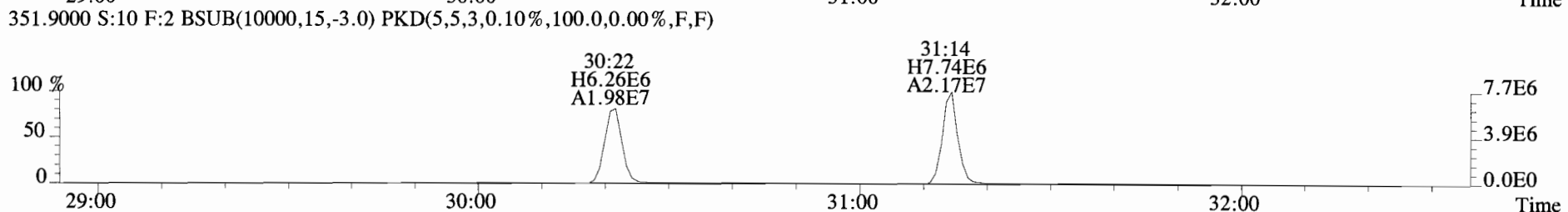
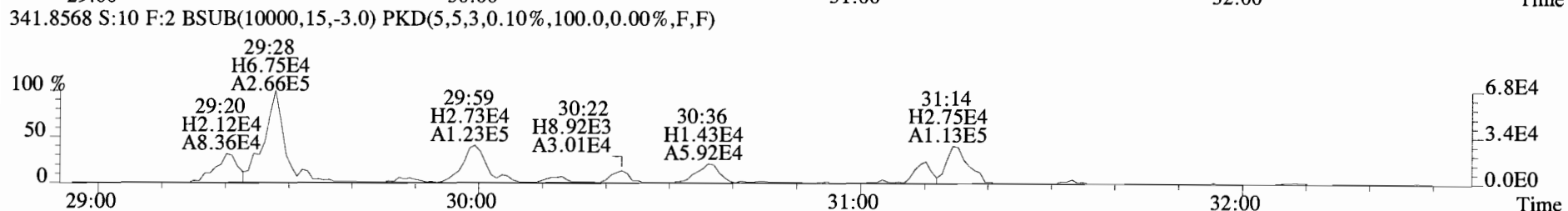
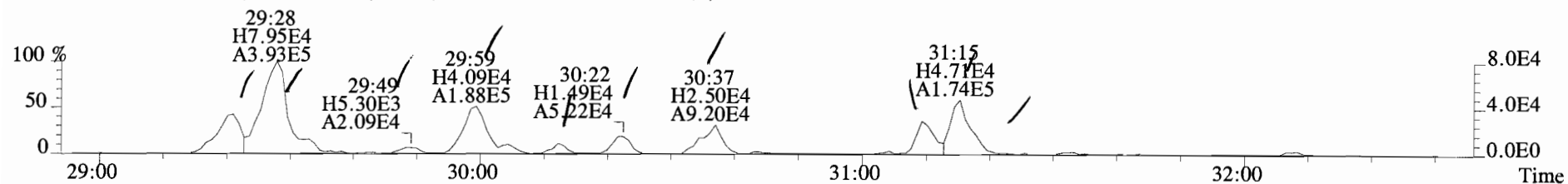
File:140917D1 #1-551 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
303.9016 S:10 BSUB(10000,15,-3.0)



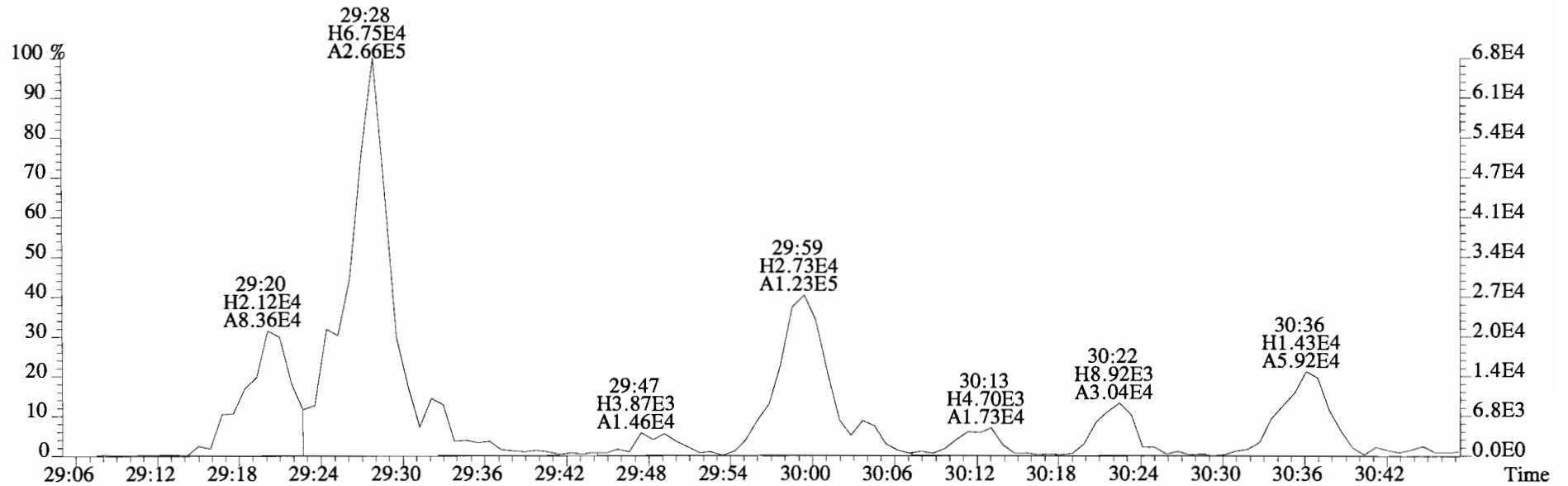
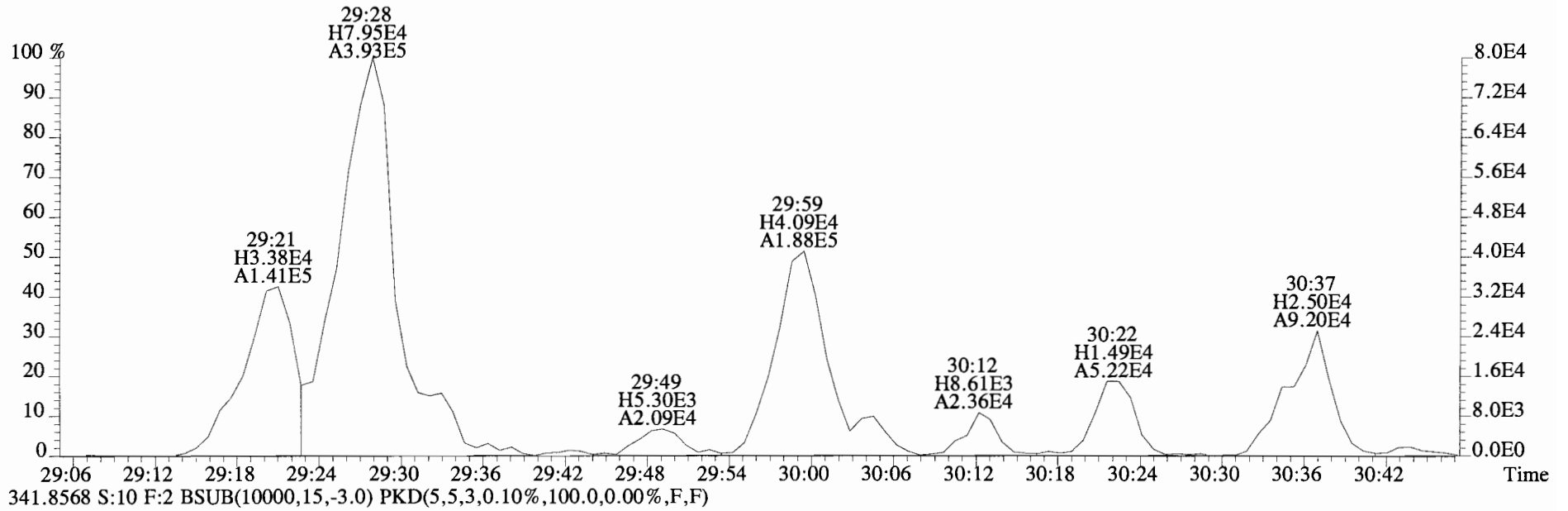
File:140917D1 #1-551 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
339.8597 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



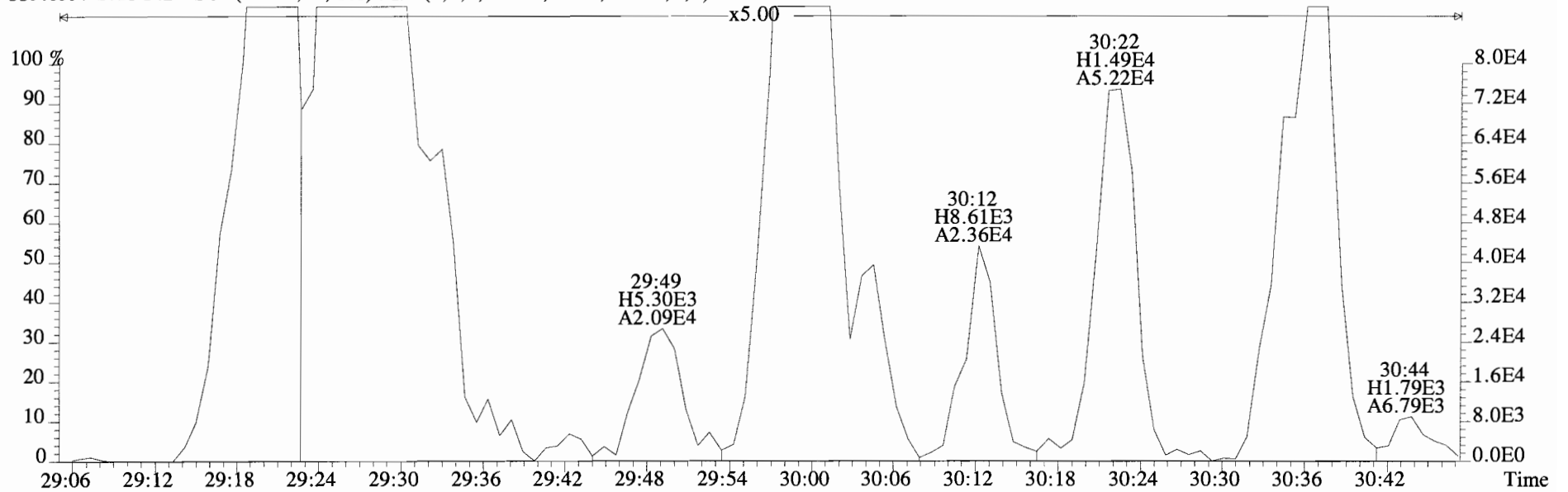
File:140917D1 #1-257 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
 339.8597 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



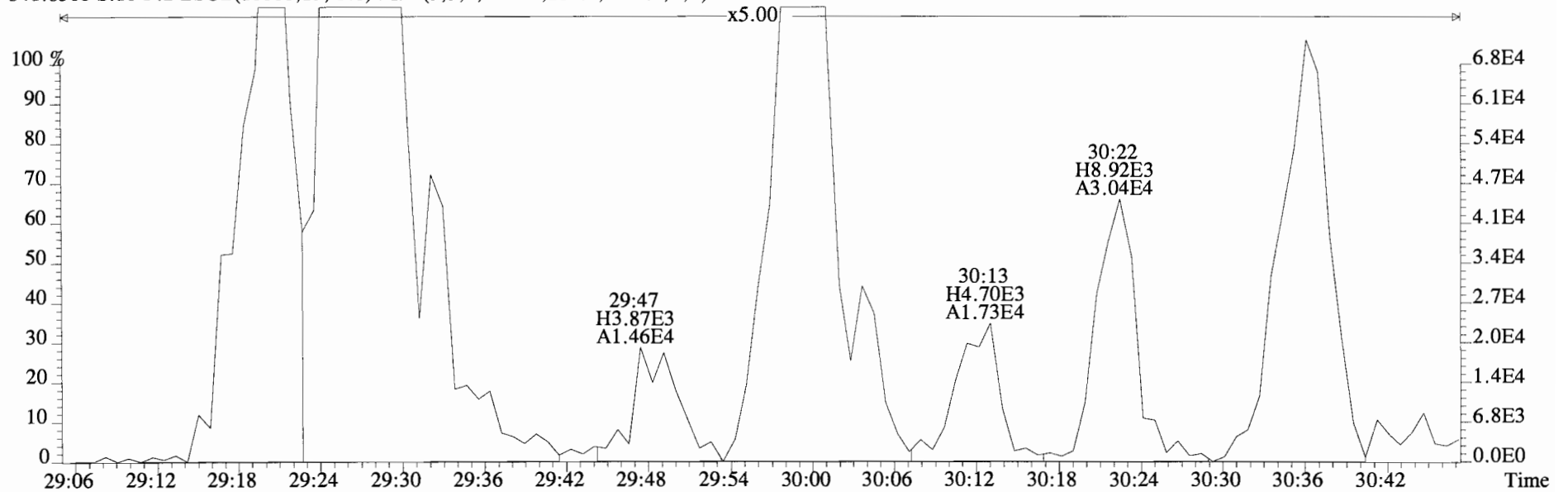
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 Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
 339.8597 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



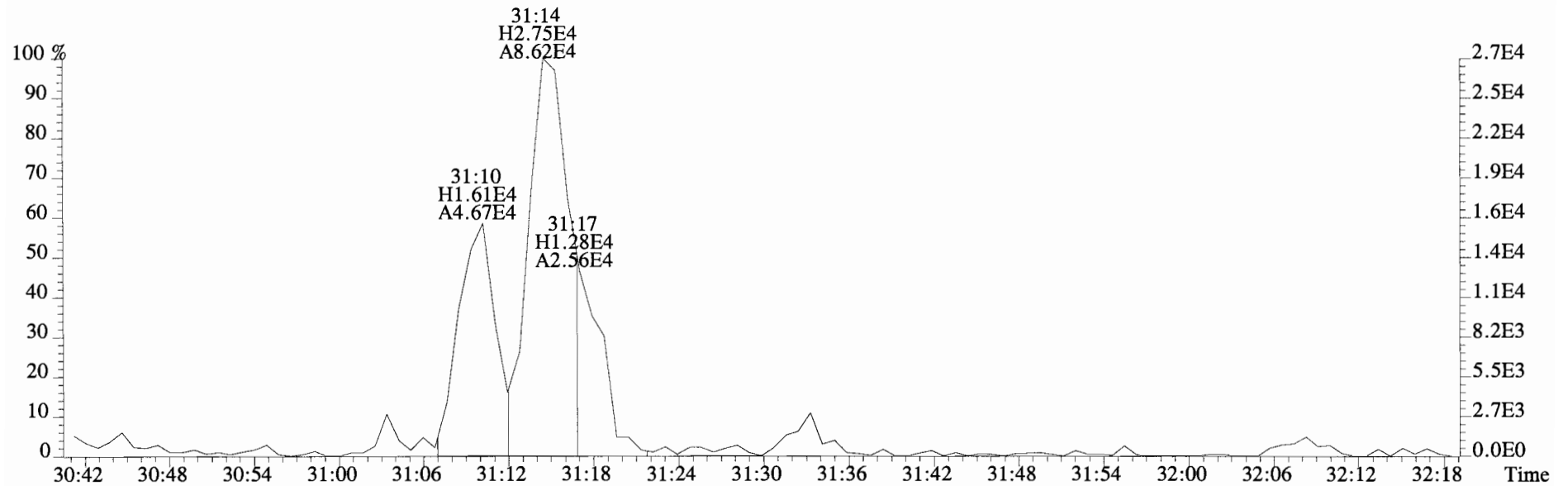
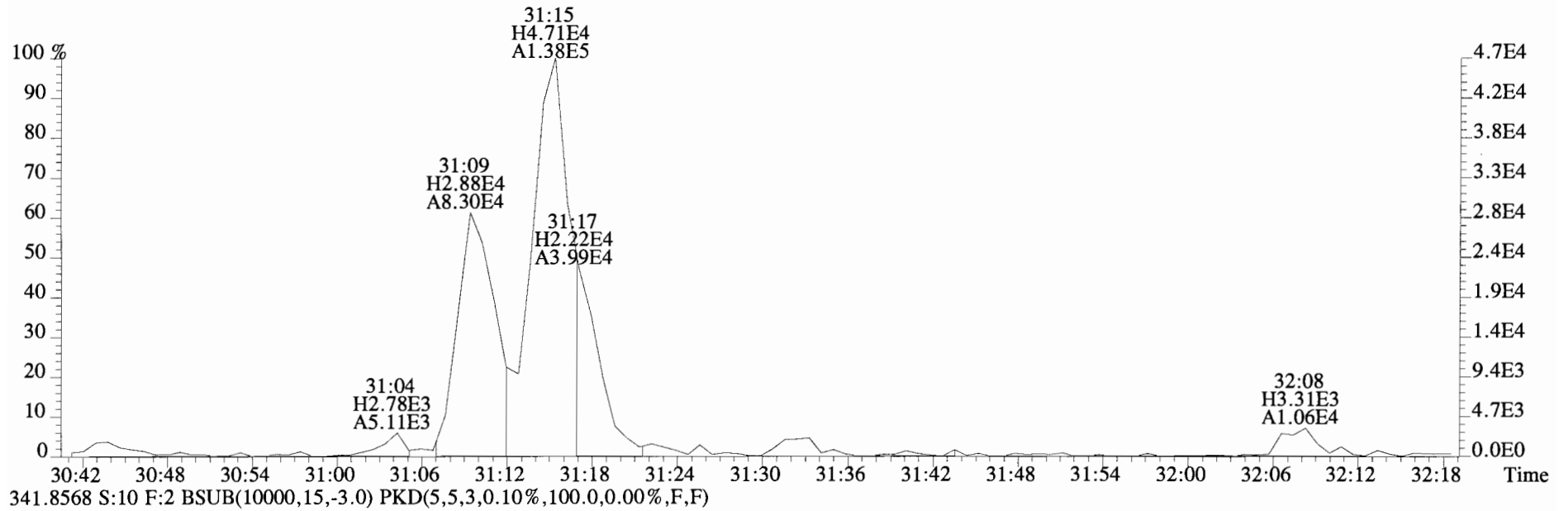
File:140917D1 #1-257 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
339.8597 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



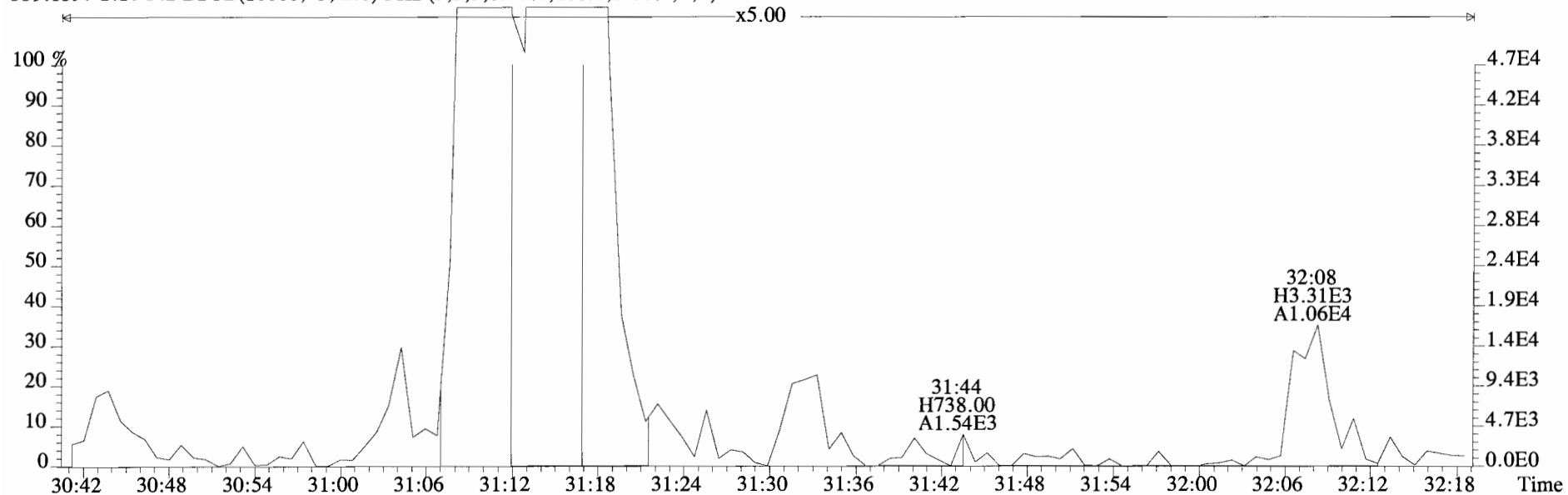
341.8568 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



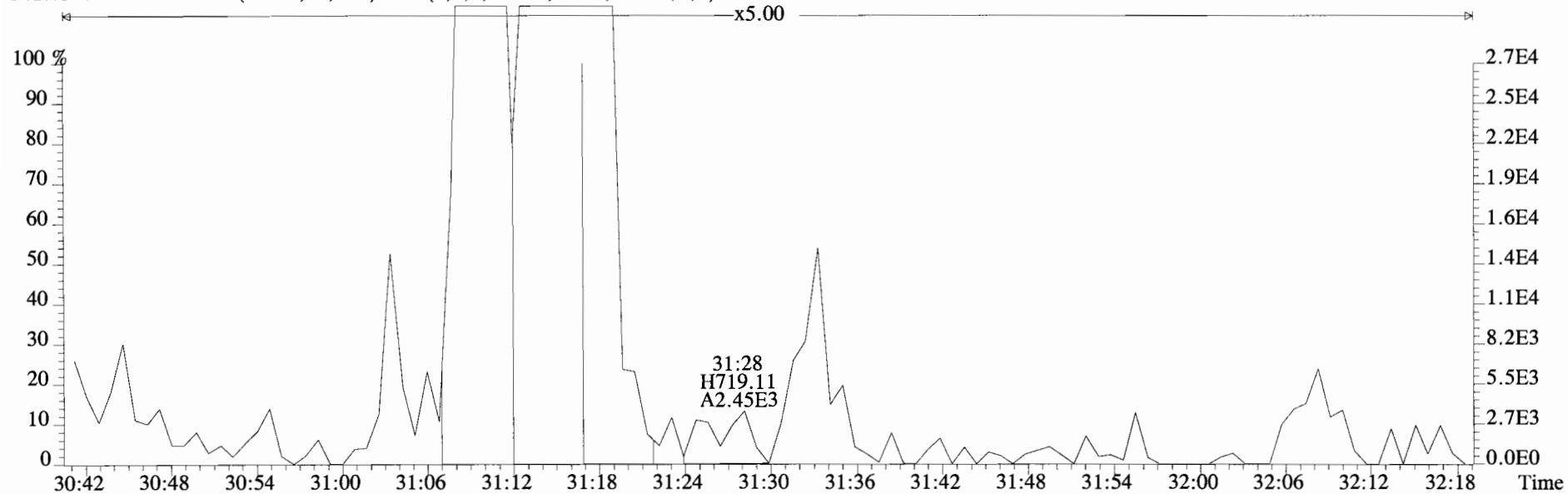
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Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
339.8597 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



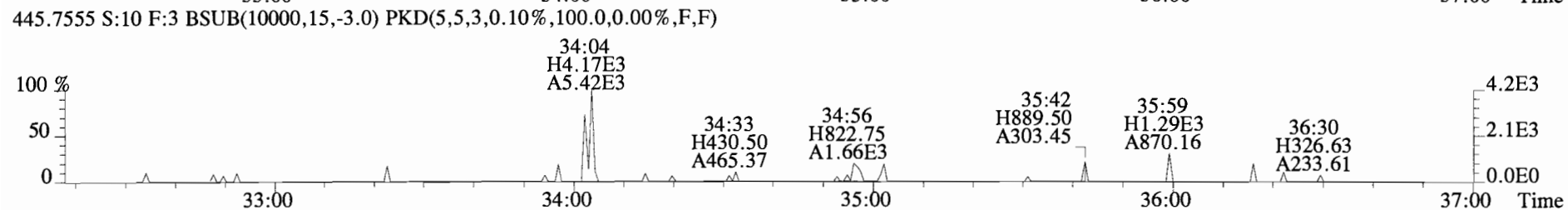
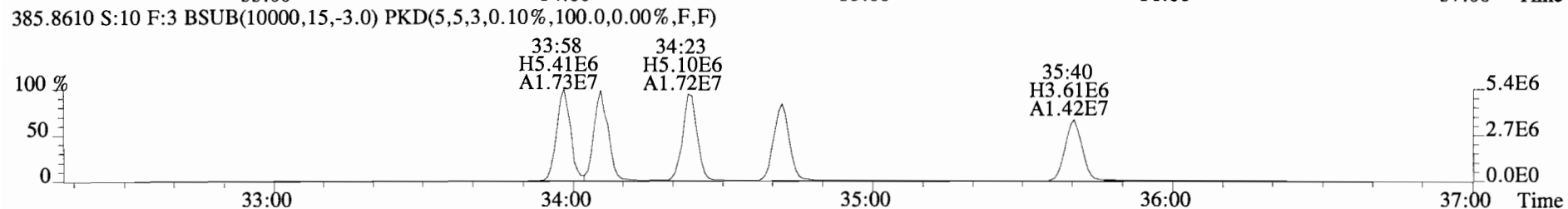
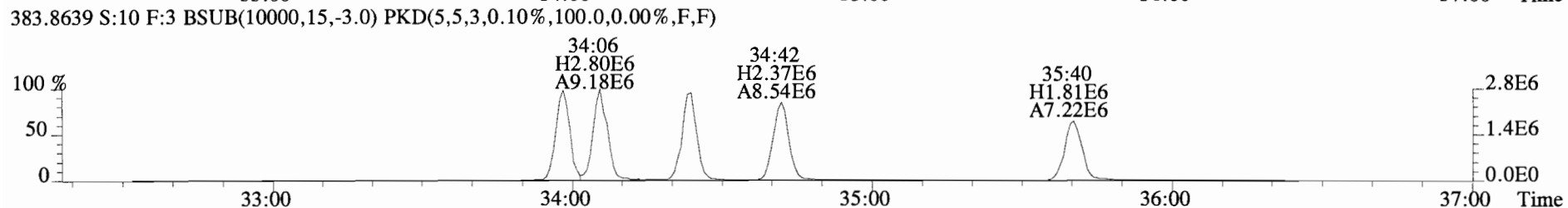
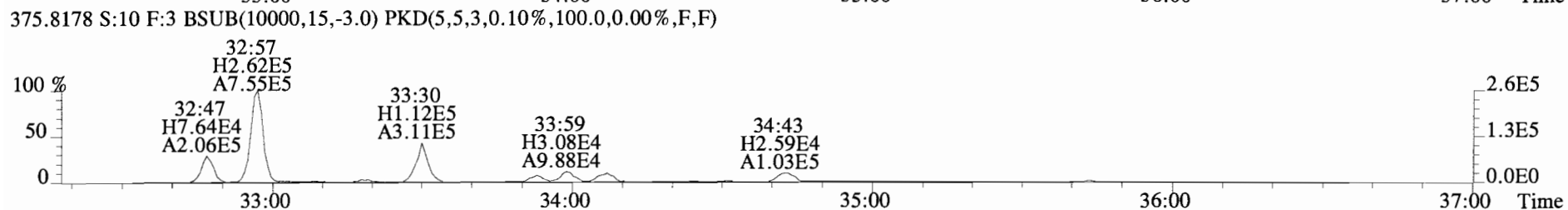
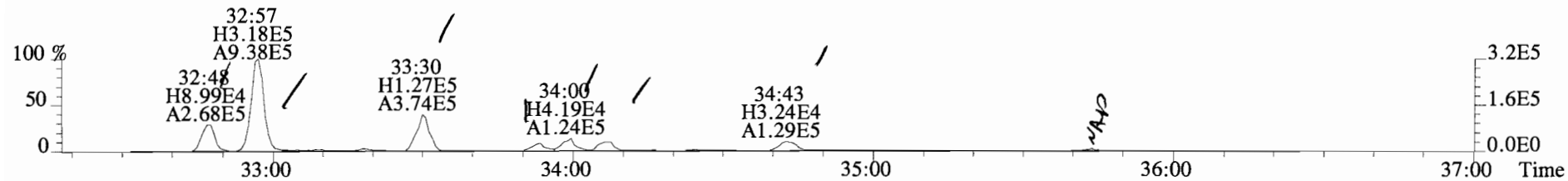
File:140917D1 #1-257 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
339.8597 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



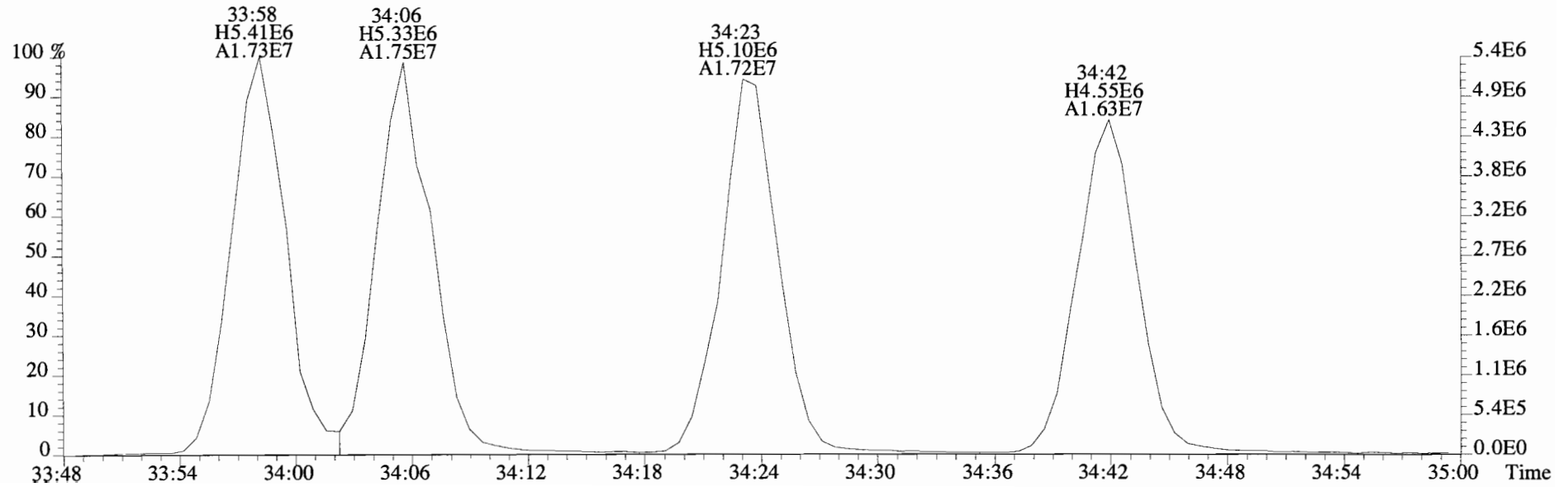
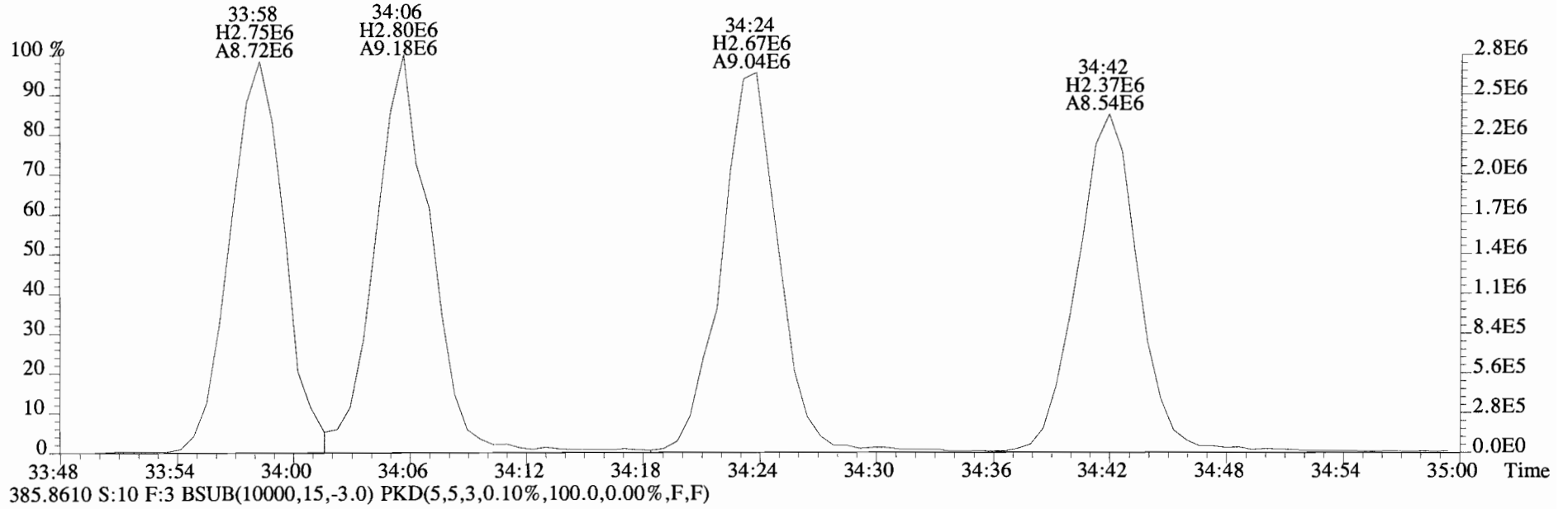
341.8568 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



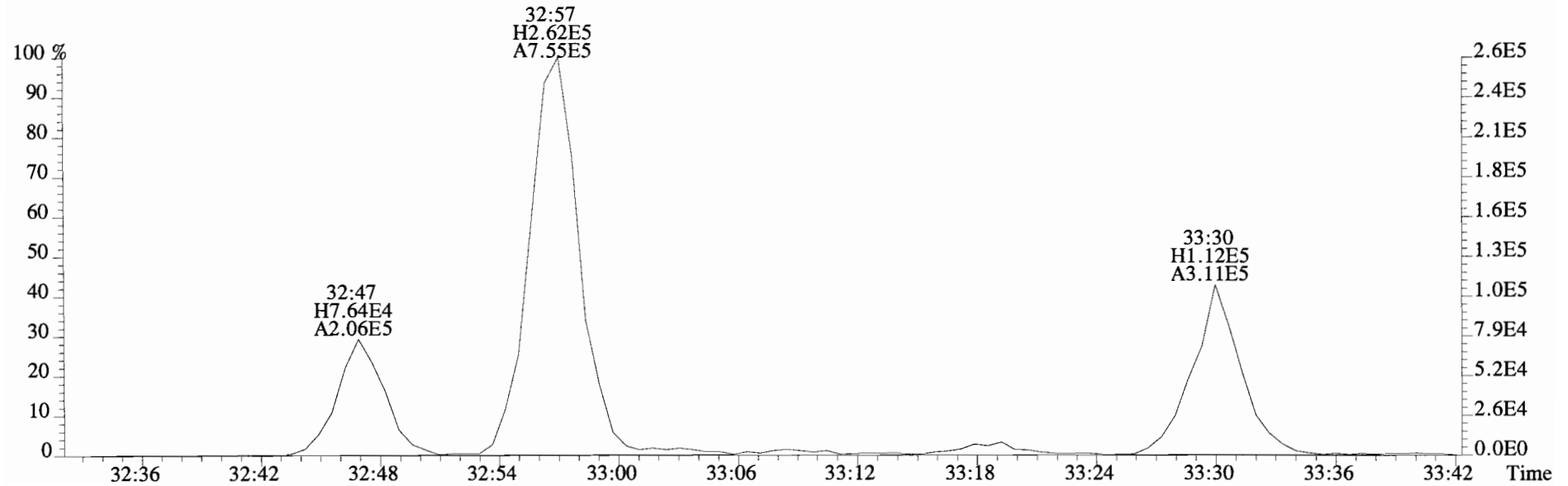
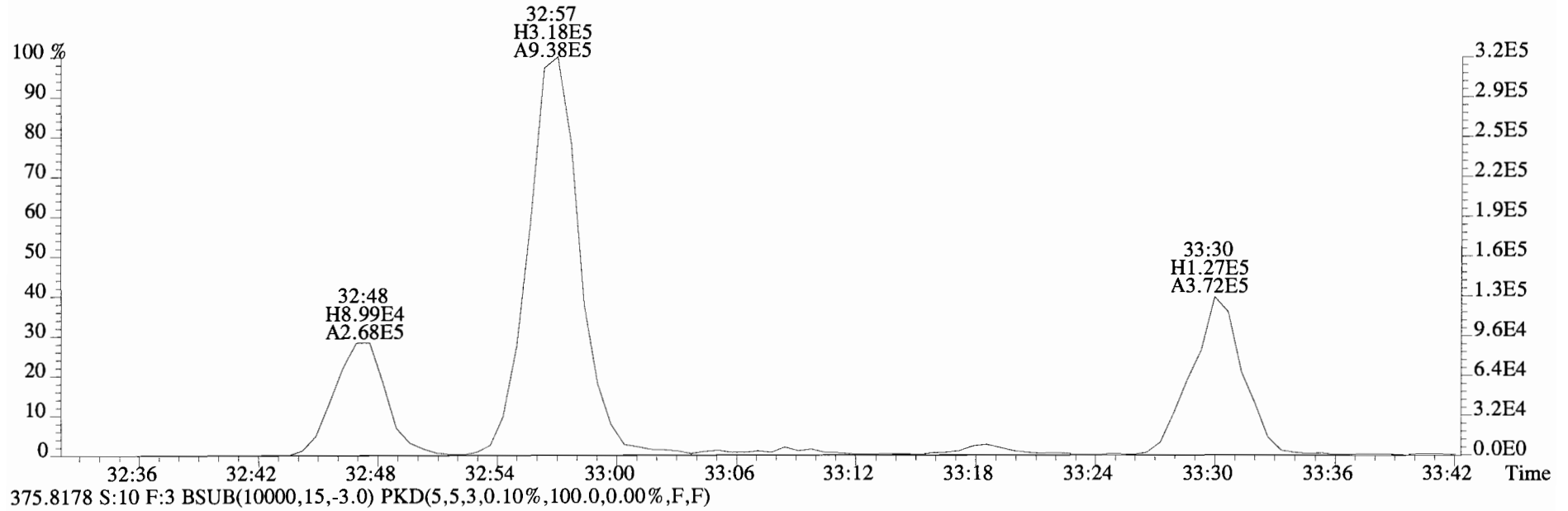
File:140917D1 #1-385 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
 373.8207 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



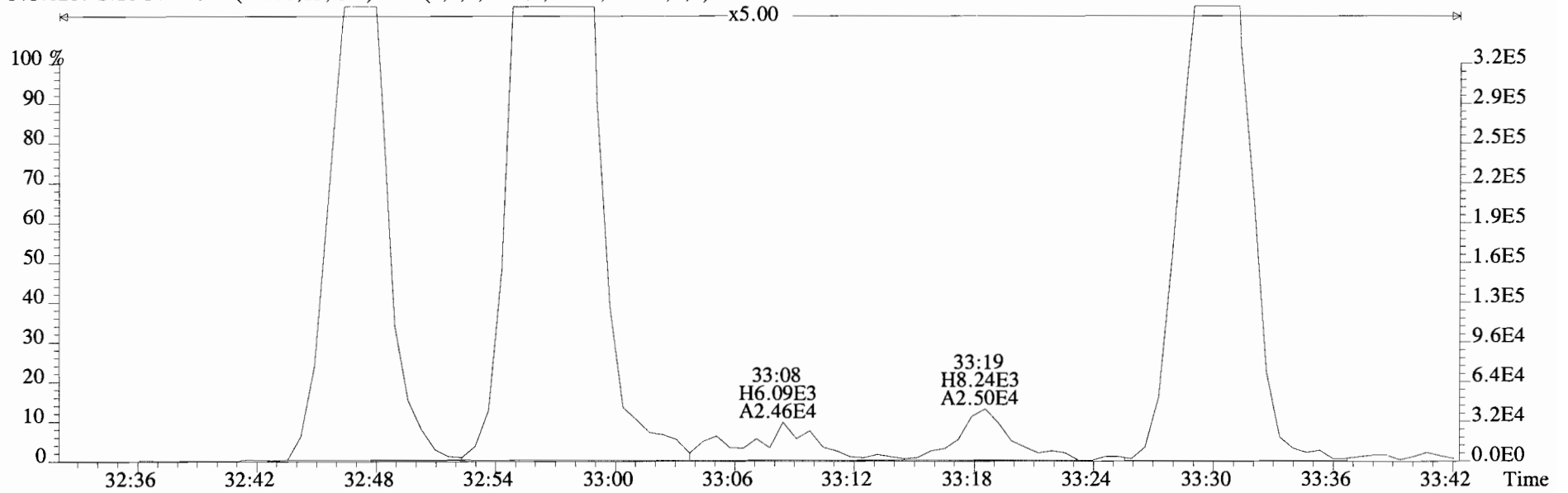
File:140917D1 #1-385 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
383.8639 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



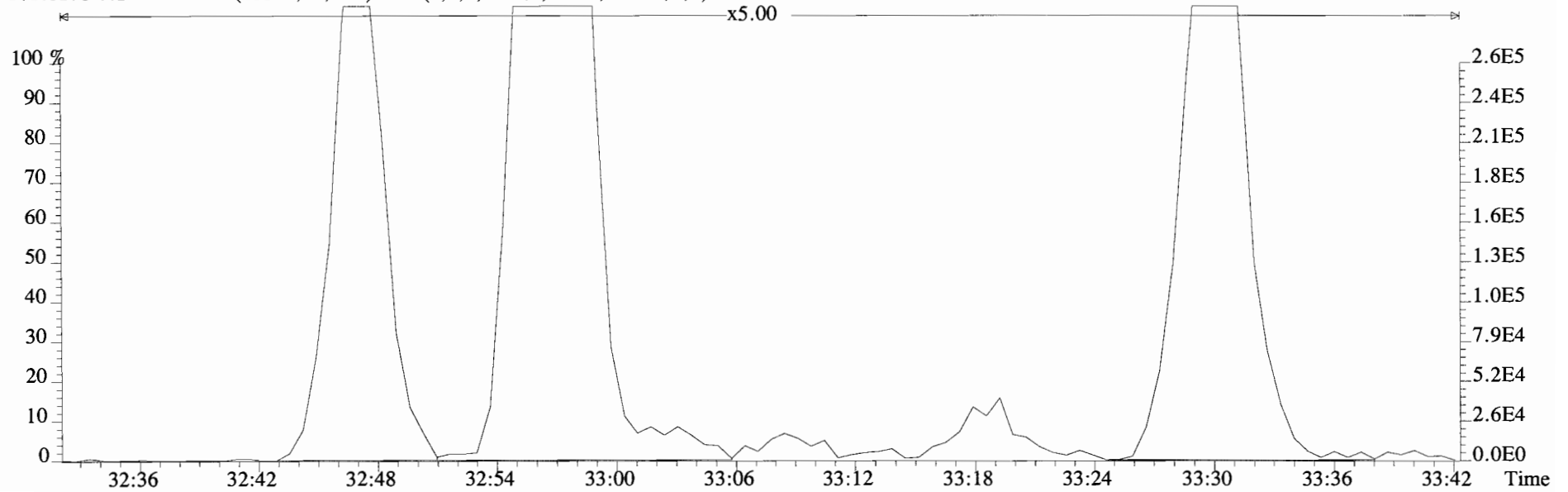
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Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
373.8207 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



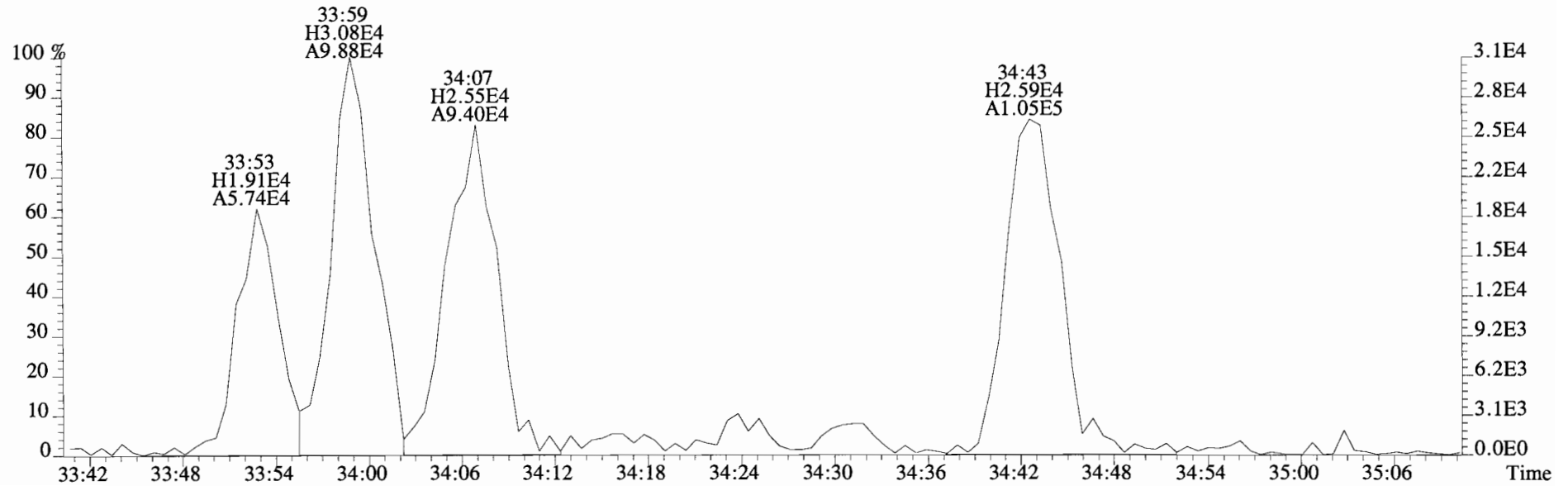
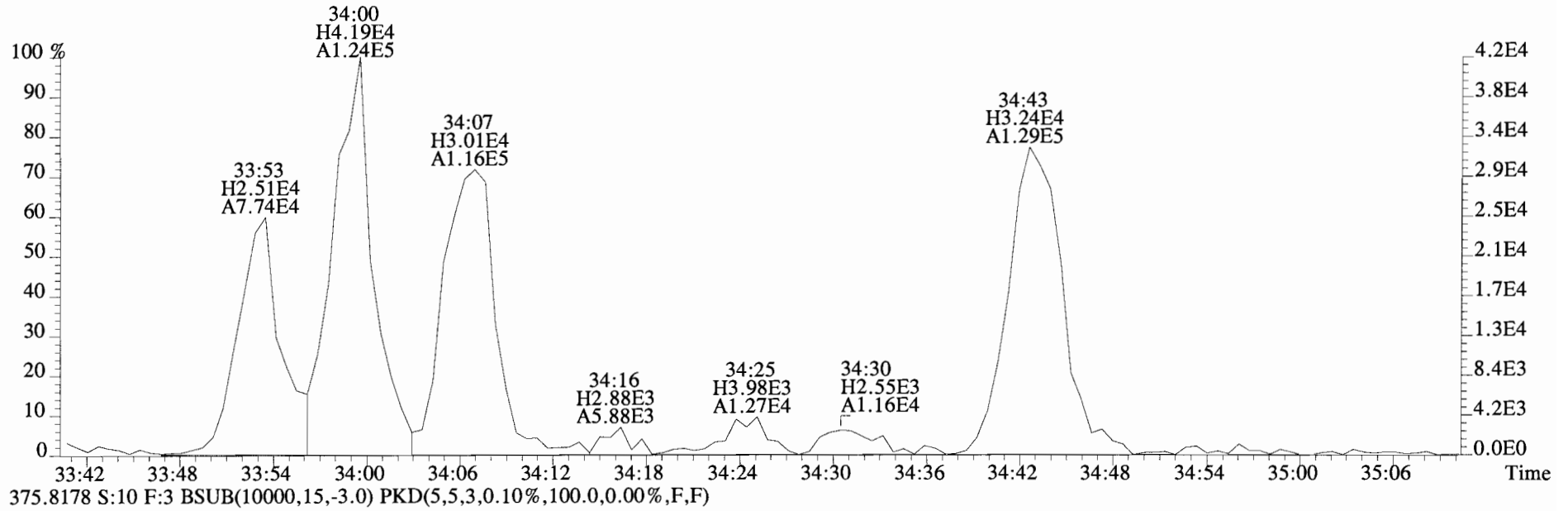
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Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
373.8207 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



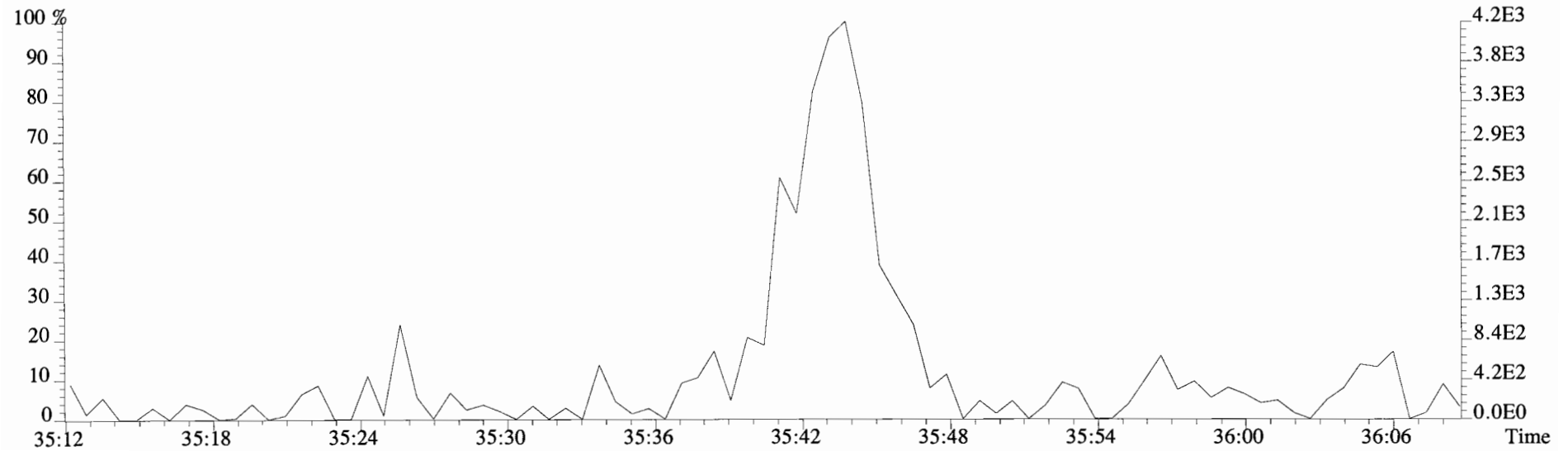
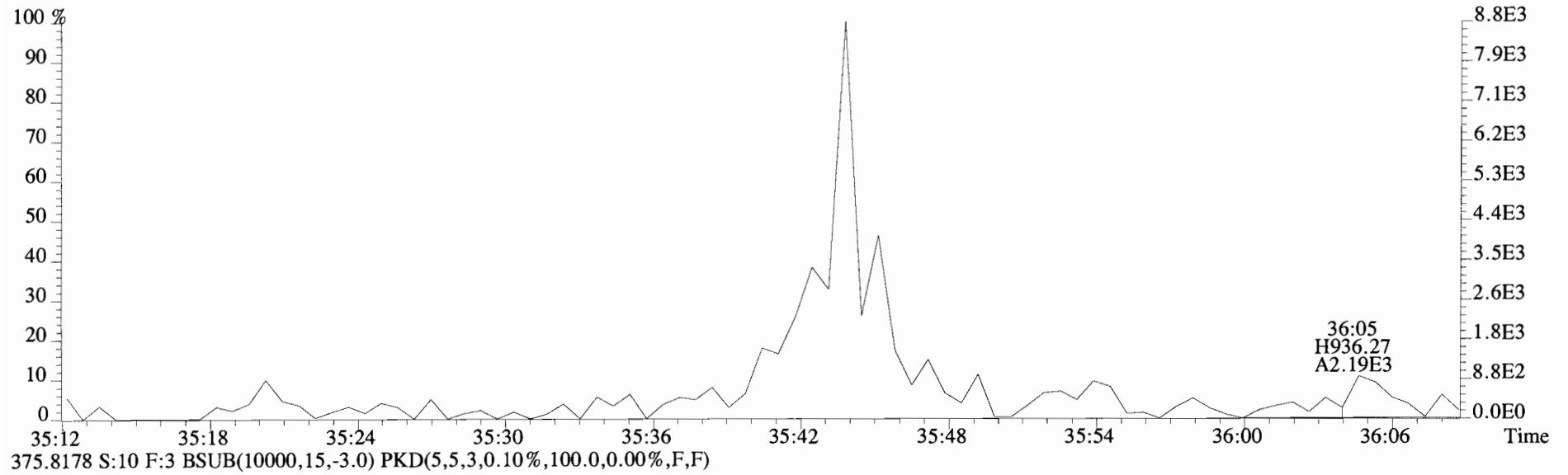
375.8178 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



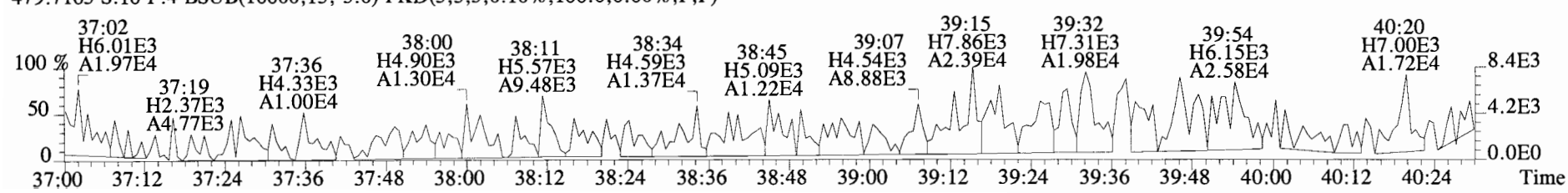
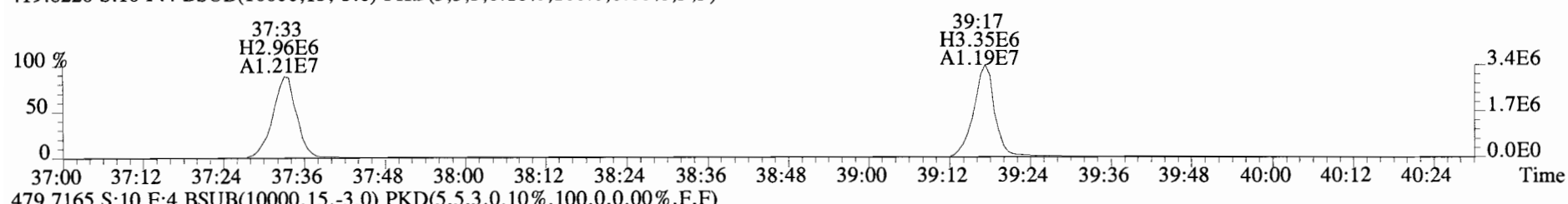
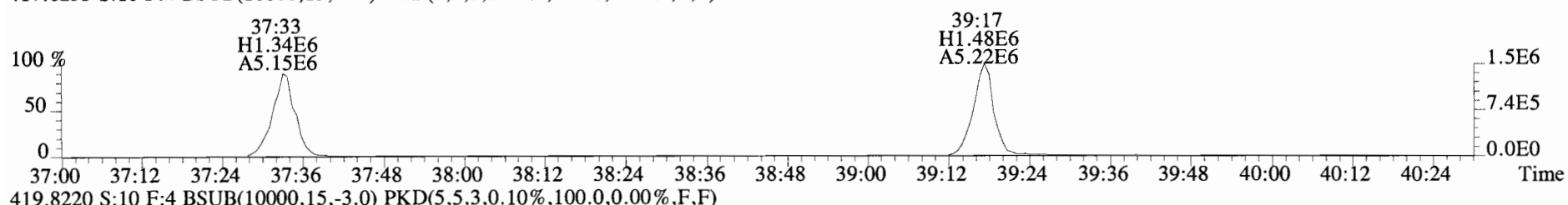
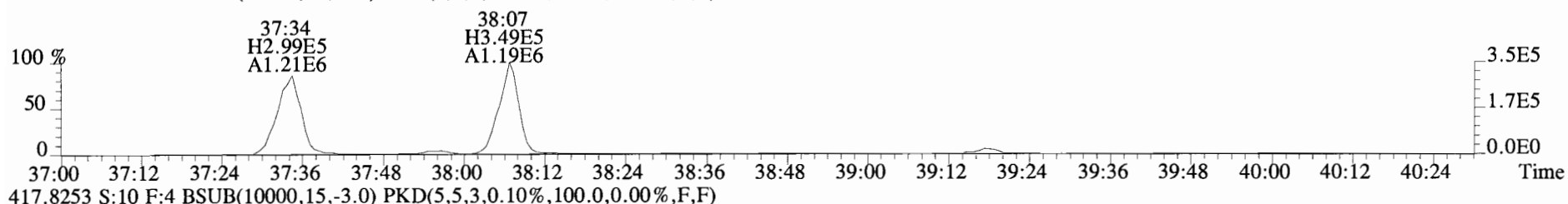
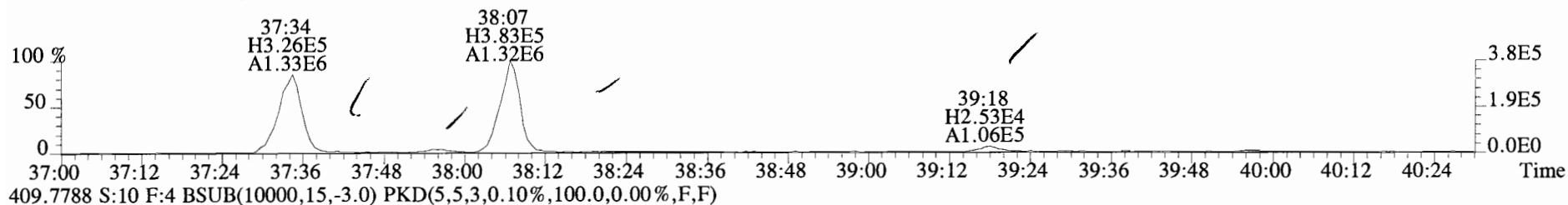
File:140917D1 #1-385 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
373.8207 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



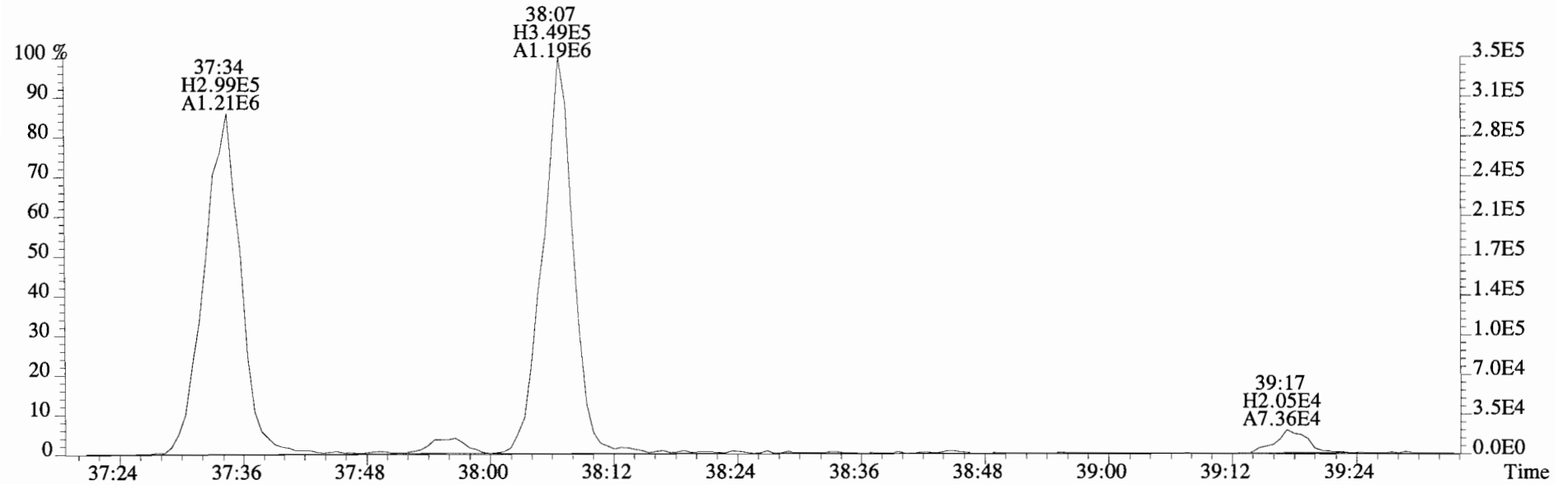
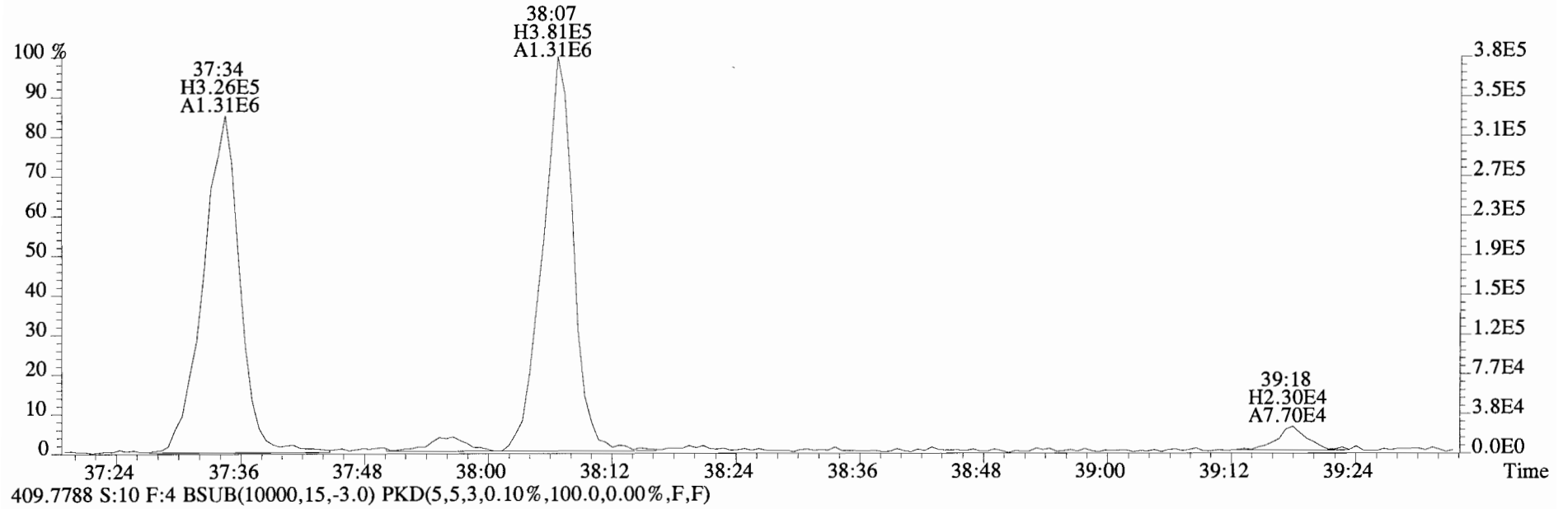
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Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
373.8207 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



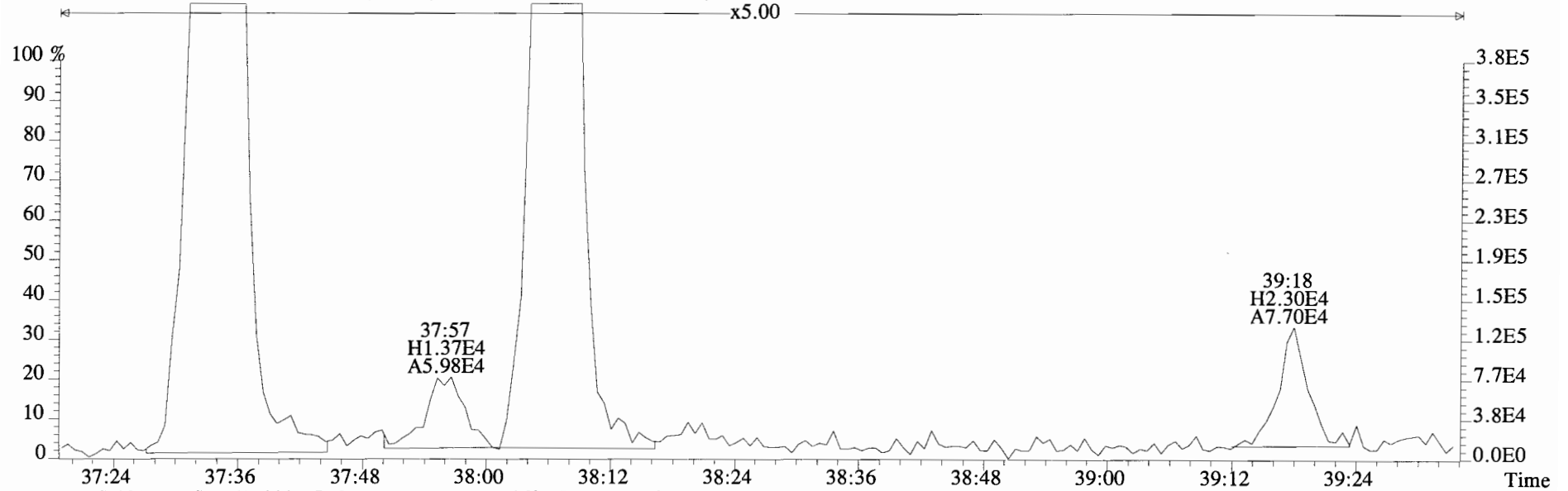
File:140917D1 #1-326 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
407.7818 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



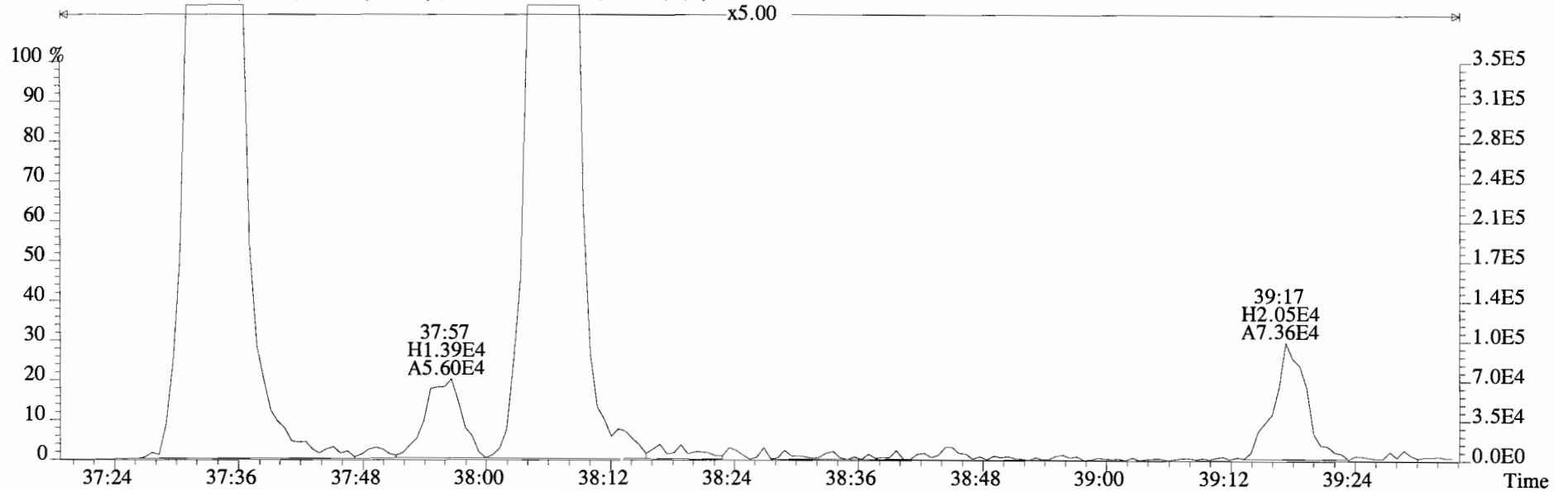
File:140917D1 #1-326 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
407.7818 S:10 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



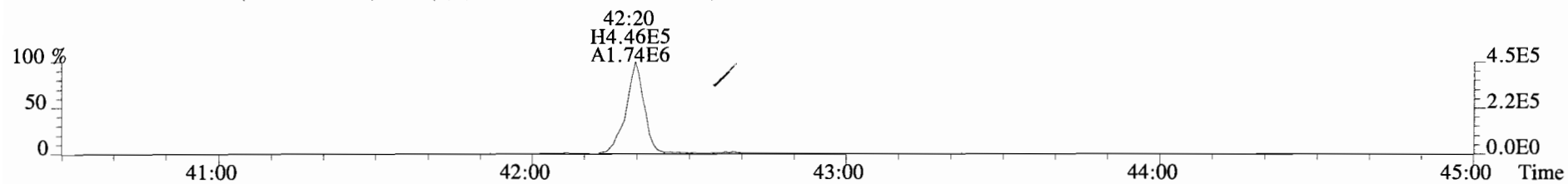
File:140917D1 #1-326 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
407.7818 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



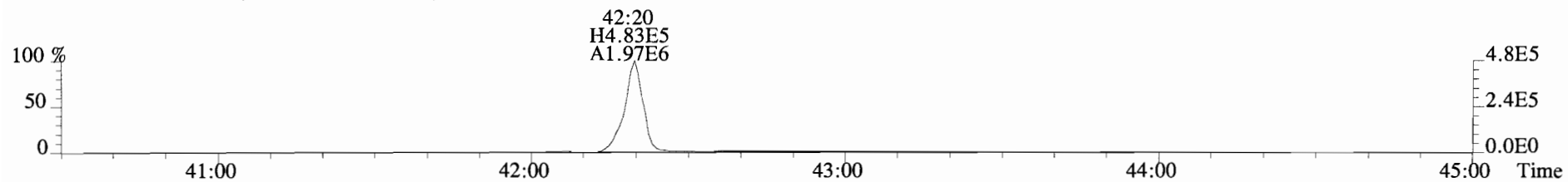
409.7788 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



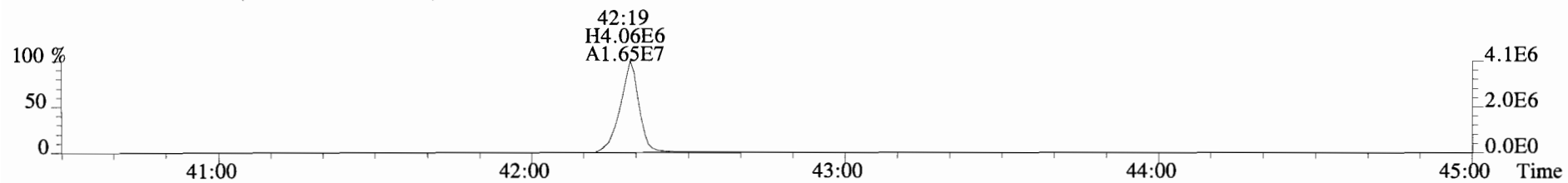
File:140917D1 #1-388 Acq:17-SEP-2014 20:26:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03 PS-TS-01-20140909-S 13.37 Exp:OCDD_DB5
441.7428 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



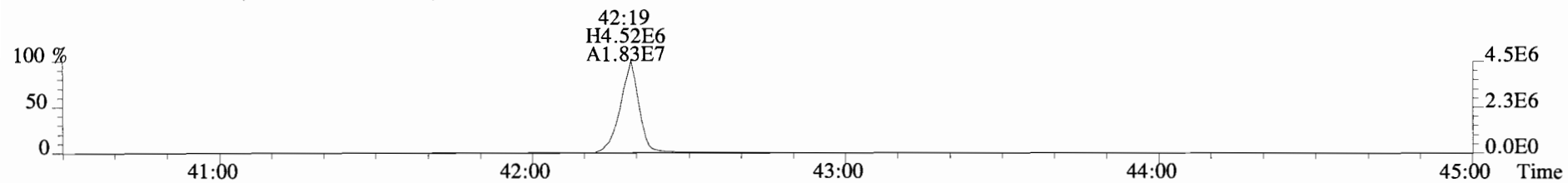
443.7398 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



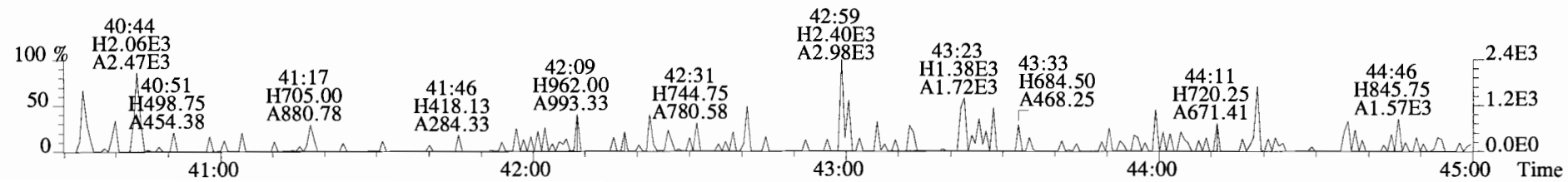
453.7831 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:10 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
Lab ID: B4I0047-BLK1

Filename: 140919E1 S:5 Acq:19-SEP-14 13:50:37
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.00000

ConCal: ST140919E1-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|--------------|----------|------|---------|------|------|------|-------|-----|-------|-------|-------------|-----|
| Mono | PCB-1 | * | * | n NotFη | 1.25 | * | | 4090 | 2.5 | 2.28 | * | 0.996-1.006 | |
| Mono | PCB-2 | * | * | n NotFη | 1.18 | * | | 4090 | 2.5 | 2.76 | * | 0.983-0.993 | |
| Mono | PCB-3 | * | * | n NotFη | 1.22 | * | | 4090 | 2.5 | 2.68 | * | 0.996-1.006 | |
| Di | PCB-4/10 | * | * | n NotFη | 1.55 | * | | 28100 | 2.5 | 11.8 | * | 0.998-1.008 | |
| Di | PCB-7/9 | * | * | n NotFη | 1.27 | * | | 28100 | 2.5 | 9.63 | * | 0.865-0.873 | |
| Di | PCB-6 | * | * | n NotFη | 1.26 | * | | 28100 | 2.5 | 9.70 | * | 0.890-0.899 | |
| Di | PCB-5/8 | * | * | n NotFη | 1.23 | * | | 28100 | 2.5 | 9.91 | * | 0.906-0.916 | |
| Di | PCB-14 | * | * | n NotFη | 1.23 | * | | 28100 | 2.5 | 8.36 | * | 0.949-0.959 | |
| Di | PCB-11 | 7.23e+05 | 1.23 | n 25:27 | 1.16 | 9.13 | R | * | 2.5 | * | 1.001 | 0.996-1.006 | |
| Di | PCB-12/13 | * | * | n NotFη | 1.10 | * | | 28100 | 2.5 | 9.37 | * | 1.010-1.020 | |
| Di | PCB-15 | * | * | n NotFη | 1.21 | * | | 28100 | 2.5 | 8.53 | * | 1.024-1.034 | |
| Tri | PCB-19 | * | * | n NotFη | 1.30 | * | | 1820 | 2.5 | 0.929 | * | 0.996-1.006 | |
| Tri | PCB-30 | * | * | n NotFη | 1.83 | * | | 1820 | 2.5 | 0.658 | * | 1.032-1.042 | |
| Tri | PCB-18 | 5.42e+04 | 1.75 | n 26:05 | 0.86 | 1.18 | R | * | 2.5 | * | 0.954 | 0.949-0.959 | |
| Tri | PCB-17 | * | * | n NotFη | 0.90 | * | | 1820 | 2.5 | 0.814 | * | 0.955-0.965 | |
| Tri | PCB-24/27 | * | * | n NotFη | 1.18 | * | | 1820 | 2.5 | 0.623 | * | 0.976-0.986 | |
| Tri | PCB-16/32 | * | * | n NotFη | 1.03 | * | | 1820 | 2.5 | 0.712 | * | 0.995-1.005 | |
| Tri | PCB-34 | * | * | n NotFη | 1.26 | * | | 1630 | 2.5 | 0.879 | * | 0.956-0.966 | |
| Tri | PCB-23 | * | * | n NotFη | 1.31 | * | | 1630 | 2.5 | 0.845 | * | 0.959-0.969 | |
| Tri | PCB-29 | * | * | n NotFη | 1.33 | * | | 1630 | 2.5 | 0.834 | * | 0.967-0.977 | |
| Tri | PCB-26 | * | * | n NotFη | 1.29 | * | | 1630 | 2.5 | 0.858 | * | 0.974-0.984 | |
| Tri | PCB-25 | * | * | n NotFη | 1.34 | * | | 1630 | 2.5 | 0.825 | * | 0.980-0.990 | |
| Tri | PCB-31 | * | * | n NotFη | 1.42 | * | | 1630 | 2.5 | 0.781 | * | 0.992-1.002 | |
| Tri | PCB-28 | * | * | n NotFη | 1.38 | * | | 1630 | 2.5 | 0.804 | * | 0.996-1.006 | |
| Tri | PCB-20/21/33 | * | * | n NotFη | 1.31 | * | | 1630 | 2.5 | 0.845 | * | 1.017-1.027 | |
| Tri | PCB-22 | * | * | n NotFη | 1.32 | * | | 1630 | 2.5 | 0.838 | * | 1.032-1.042 | |
| Tri | PCB-36 | * | * | n NotFη | 1.38 | * | | 1630 | 2.5 | 0.774 | * | 0.929-0.939 | |
| Tri | PCB-39 | * | * | n NotFη | 1.42 | * | | 1630 | 2.5 | 0.751 | * | 0.943-0.953 | |
| Tri | PCB-38 | * | * | n NotFη | 1.35 | * | | 1630 | 2.5 | 0.787 | * | 0.967-0.976 | |
| Tri | PCB-35 | * | * | n NotFη | 1.38 | * | | 1630 | 2.5 | 0.774 | * | 0.982-0.992 | |
| Tri | PCB-37 | * | * | n NotFη | 1.39 | * | | 1630 | 2.5 | 0.766 | * | 0.996-1.006 | |
| Tetra | PCB-54 | * | * | n NotFη | 1.20 | * | | 1910 | 2.5 | 0.713 | * | 0.996-1.006 | |
| Tetra | PCB-50 | * | * | n NotFη | 0.97 | * | | 1910 | 2.5 | 0.884 | * | 1.037-1.047 | |
| Tetra | PCB-53 | * | * | n NotFη | 1.19 | * | | 1910 | 2.5 | 0.874 | * | 0.941-0.951 | |
| Tetra | PCB-51 | * | * | n NotFη | 1.15 | * | | 1910 | 2.5 | 0.901 | * | 0.952-0.962 | |
| Tetra | PCB-45 | * | * | n NotFη | 0.97 | * | | 1910 | 2.5 | 1.08 | * | 0.966-0.976 | |
| Tetra | PCB-46 | * | * | n NotFη | 0.95 | * | | 1910 | 2.5 | 1.09 | * | 0.982-0.992 | |

Integrations by:

Analyst: DMS

Date: 9/23/14

Reviewed by: A/2

Date: 9/24/14

Client ID: Method Blank
Lab ID: B4I0047-BLK1

Filename: 140919E1 S:5 Acq:19-SEP-14 13:50:37
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000

ConCal: ST140919E1-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-----------------|------|----|----|--------------------|------|------|-------|-----|-------|-----|-------------|-----|
| Tetra | PCB-52/69 | * | * | n | Not F ₇ | 1.28 | * | 1910 | 2.5 | 0.812 | * | 0.996-1.006 | |
| Tetra | PCB-73 | * | * | n | Not F ₇ | 1.37 | * | 1910 | 2.5 | 0.757 | * | 1.000-1.010 | |
| Tetra | PCB-43/49 | * | * | n | Not F ₇ | 1.11 | * | 1910 | 2.5 | 0.933 | * | 1.005-1.015 | |
| Tetra | PCB-47 | * | * | n | Not F ₇ | 1.13 | * | 1910 | 2.5 | 0.884 | * | 0.996-1.006 | |
| Tetra | PCB-48/75 | * | * | n | Not F ₇ | 1.30 | * | 1910 | 2.5 | 0.768 | * | 0.999-1.009 | |
| Tetra | PCB-65 | * | * | n | Not F ₇ | 1.33 | * | 1910 | 2.5 | 0.750 | * | 1.007-1.017 | |
| Tetra | PCB-62 | * | * | n | Not F ₇ | 1.29 | * | 1910 | 2.5 | 0.775 | * | 1.011-1.021 | |
| Tetra | PCB-44 | * | * | n | Not F ₇ | 0.94 | * | 1910 | 2.5 | 1.07 | * | 1.020-1.030 | |
| Tetra | PCB-42/59 | * | * | n | Not F ₇ | 1.22 | * | 1910 | 2.5 | 0.823 | * | 1.028-1.038 | |
| Tetra | PCB-41/64/71/72 | * | * | n | Not F ₇ | 1.31 | * | 1910 | 2.5 | 0.763 | * | 1.046-1.056 | |
| Tetra | PCB-68 | * | * | n | Not F ₇ | 1.49 | * | 1910 | 2.5 | 0.674 | * | 1.054-1.064 | |
| Tetra | PCB-40 | * | * | n | Not F ₇ | 0.82 | * | 1910 | 2.5 | 1.22 | * | 1.061-1.071 | |
| Tetra | PCB-57 | * | * | n | Not F ₇ | 1.11 | * | 1910 | 2.5 | 0.625 | * | 0.965-0.975 | |
| Tetra | PCB-67 | * | * | n | Not F ₇ | 1.07 | * | 1910 | 2.5 | 0.649 | * | 0.974-0.984 | |
| Tetra | PCB-58 | * | * | n | Not F ₇ | 1.10 | * | 1910 | 2.5 | 0.633 | * | 0.977-0.987 | |
| Tetra | PCB-63 | * | * | n | Not F ₇ | 1.12 | * | 1910 | 2.5 | 0.624 | * | 0.982-0.992 | |
| Tetra | PCB-74 | * | * | n | Not F ₇ | 1.20 | * | 1910 | 2.5 | 0.579 | * | 0.990-1.000 | |
| Tetra | PCB-61/70 | * | * | n | Not F ₇ | 1.08 | * | 1910 | 2.5 | 0.645 | * | 0.994-1.004 | |
| Tetra | PCB-76/66 | * | * | n | Not F ₇ | 1.14 | * | 1910 | 2.5 | 0.613 | * | 1.001-1.011 | |
| Tetra | PCB-80 | * | * | n | Not F ₇ | 1.28 | * | 1910 | 2.5 | 0.549 | * | 0.996-1.006 | |
| Tetra | PCB-55 | * | * | n | Not F ₇ | 1.11 | * | 1910 | 2.5 | 0.632 | * | 1.005-1.015 | |
| Tetra | PCB-56/60 | * | * | n | Not F ₇ | 1.09 | * | 1910 | 2.5 | 0.645 | * | 1.018-1.028 | |
| Tetra | PCB-79 | * | * | n | Not F ₇ | 1.12 | * | 1910 | 2.5 | 0.624 | * | 1.048-1.058 | |
| Tetra | PCB-78 | * | * | n | Not F ₇ | 1.24 | * | 1910 | 2.5 | 0.694 | * | 0.982-0.992 | |
| Tetra | PCB-81 | * | * | n | Not F ₇ | 1.38 | * | 1910 | 2.5 | 0.621 | * | 0.995-1.005 | |
| Tetra | PCB-77 | * | * | n | Not F ₇ | 1.21 | * | 1910 | 2.5 | 0.676 | * | 0.995-1.005 | |
| Penta | PCB-104 | * | * | n | Not F ₇ | 1.26 | * | 2020 | 2.5 | 1.12 | * | 0.996-1.006 | |
| Penta | PCB-96 | * | * | n | Not F ₇ | 1.09 | * | 2020 | 2.5 | 1.29 | * | 1.034-1.044 | |
| Penta | PCB-103 | * | * | n | Not F ₇ | 0.93 | * | 2020 | 2.5 | 1.51 | * | 1.050-1.060 | |
| Penta | PCB-100 | * | * | n | Not F ₇ | 1.00 | * | 2020 | 2.5 | 1.40 | * | 1.061-1.071 | |
| Penta | PCB-94 | * | * | n | Not F ₇ | 1.11 | * | 2020 | 2.5 | 1.59 | * | 0.981-0.991 | |
| Penta | PCB-95/98/102 | * | * | n | Not F ₇ | 1.21 | * | 2020 | 2.5 | 1.45 | * | 0.994-1.004 | |
| Penta | PCB-93 | * | * | n | Not F ₇ | 1.13 | * | 2020 | 2.5 | 1.56 | * | 0.998-1.008 | |
| Penta | PCB-88/91 | * | * | n | Not F ₇ | 1.02 | * | 2020 | 2.5 | 1.73 | * | 1.006-1.016 | |
| Penta | PCB-121 | * | * | n | Not F ₇ | 1.90 | * | 2020 | 2.5 | 0.927 | * | 1.009-1.019 | |
| Penta | PCB-84/92 | * | * | n | Not F ₇ | 1.05 | * | 2020 | 2.5 | 1.59 | * | 0.986-0.996 | |
| Penta | PCB-89 | * | * | n | Not F ₇ | 1.02 | * | 2020 | 2.5 | 1.64 | * | 0.991-1.001 | |

Analyst: *Dms*

Date: *9/23/14*

Client ID: Method Blank
Lab ID: B4I0047-BLK1

Filename: 140919E1 S:5 Acq:19-SEP-14 13:50:37
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000

ConCal: ST140919E1-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|----------------|------|-----|-------------|------|------|------|-------|-----|-------|-----|-------------|-----|
| Penta | PCB-90/101 | * | * n | NotF η | 1.19 | * | | 2020 | 2.5 | 1.40 | * | 0.996-1.006 | |
| Penta | PCB-113 | * | * n | NotF η | 1.35 | * | | 2020 | 2.5 | 1.23 | * | 1.002-1.012 | |
| Penta | PCB-99 | * | * n | NotF η | 1.29 | * | | 2020 | 2.5 | 1.29 | * | 1.005-1.015 | |
| Penta | PCB-119 | * | * n | NotF η | 1.72 | * | | 2020 | 2.5 | 1.04 | * | 0.982-0.992 | |
| Penta | PCB-108/112 | * | * n | NotF η | 1.29 | * | | 2020 | 2.5 | 1.38 | * | 0.986-0.996 | |
| Penta | PCB-83 | * | * n | NotF η | 1.52 | * | | 2020 | 2.5 | 1.17 | * | 0.991-1.001 | |
| Penta | PCB-97 | * | * n | NotF η | 1.25 | * | | 2020 | 2.5 | 1.43 | * | 0.996-1.006 | |
| Penta | PCB-86 | * | * n | NotF η | 1.02 | * | | 2020 | 2.5 | 1.74 | * | 1.000-1.010 | |
| Penta | PCB-87/117/125 | * | * n | NotF η | 1.56 | * | | 2020 | 2.5 | 1.14 | * | 1.002-1.012 | |
| Penta | PCB-111/115 | * | * n | NotF η | 1.75 | * | | 2020 | 2.5 | 1.02 | * | 1.007-1.017 | |
| Penta | PCB-85/116 | * | * n | NotF η | 1.30 | * | | 2020 | 2.5 | 1.37 | * | 1.010-1.020 | |
| Penta | PCB-120 | * | * n | NotF η | 1.78 | * | | 2020 | 2.5 | 1.00 | * | 1.016-1.026 | |
| Penta | PCB-110 | * | * n | NotF η | 1.68 | * | | 2020 | 2.5 | 1.06 | * | 1.020-1.030 | |
| Penta | PCB-82 | * | * n | NotF η | 0.74 | * | | 2020 | 2.5 | 1.76 | * | 0.972-0.982 | |
| Penta | PCB-124 | * | * n | NotF η | 1.32 | * | | 2020 | 2.5 | 0.985 | * | 0.988-0.998 | |
| Penta | PCB-107/109 | * | * n | NotF η | 1.22 | * | | 2020 | 2.5 | 1.07 | * | 0.991-1.001 | |
| Penta | PCB-123 | * | * n | NotF η | 1.22 | * | | 2020 | 2.5 | 1.07 | * | 0.995-1.005 | |
| Penta | PCB-106/118 | * | * n | NotF η | 1.22 | * | | 2020 | 2.5 | 1.06 | * | 0.996-1.006 | |
| Penta | PCB-114 | * | * n | NotF η | 1.36 | * | | 2100 | 2.5 | 1.14 | * | 0.995-1.005 | |
| Penta | PCB-122 | * | * n | NotF η | 1.24 | * | | 2100 | 2.5 | 1.25 | * | 0.999-1.009 | |
| Penta | PCB-105 | * | * n | NotF η | 1.28 | * | | 2100 | 2.5 | 1.24 | * | 0.995-1.005 | |
| Penta | PCB-127 | * | * n | NotF η | 1.14 | * | | 2100 | 2.5 | 1.20 | * | 0.995-1.005 | |
| Penta | PCB-126 | * | * n | NotF η | 1.28 | * | | 2100 | 2.5 | 1.35 | * | 0.995-1.005 | |
| Hexa | PCB-155 | * | * n | NotF η | 1.14 | * | | 1640 | 2.5 | 1.00 | * | 0.966-1.006 | |
| Hexa | PCB-150 | * | * n | NotF η | 1.06 | * | | 1640 | 2.5 | 1.07 | * | 1.030-1.040 | |
| Hexa | PCB-152 | * | * n | NotF η | 1.10 | * | | 1640 | 2.5 | 1.04 | * | 1.043-1.053 | |
| Hexa | PCB-145 | * | * n | NotF η | 1.09 | * | | 1640 | 2.5 | 1.04 | * | 1.055-1.065 | |
| Hexa | PCB-136 | * | * n | NotF η | 1.08 | * | | 1640 | 2.5 | 1.05 | * | 1.064-1.074 | |
| Hexa | PCB-148 | * | * n | NotF η | 0.74 | * | | 1640 | 2.5 | 1.54 | * | 1.066-1.076 | |
| Hexa | PCB-154 | * | * n | NotF η | 0.88 | * | | 1640 | 2.5 | 1.29 | * | 1.079-1.089 | |
| Hexa | PCB-151 | * | * n | NotF η | 0.81 | * | | 1640 | 2.5 | 1.41 | * | 1.097-1.107 | |
| Hexa | PCB-135 | * | * n | NotF η | 0.78 | * | | 1640 | 2.5 | 1.46 | * | 1.101-1.113 | |
| Hexa | PCB-144 | * | * n | NotF η | 0.82 | * | | 1640 | 2.5 | 1.39 | * | 1.105-1.116 | |
| Hexa | PCB-147 | * | * n | NotF η | 0.83 | * | | 1640 | 2.5 | 1.37 | * | 1.011-1.120 | |
| Hexa | PCB-139/149 | * | * n | NotF η | 0.84 | * | | 1640 | 2.5 | 1.35 | * | 1.115-1.127 | |
| Hexa | PCB-140 | * | * n | NotF η | 0.79 | * | | 1640 | 2.5 | 1.45 | * | 1.120-1.132 | |
| Hexa | PCB-134/143 | * | * n | NotF η | 0.93 | * | | 1010 | 2.5 | 0.638 | * | 0.970-0.980 | |

Analyst: *DMS*

Date: *9/23/14*

Client ID: Method Blank
Lab ID: B4I0047-BLK1

Filename: 140919E1 S:5 Acq:19-SEP-14 13:50:37
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000

ConCal: ST140919E1-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-----------------|------|----|---------------|------|------|------|-------|-----|-------|-----|-------------|-----|
| Hexa | PCB-133/142 | * | * | n NotF η | 0.95 | * | | 1010 | 2.5 | 0.626 | * | 0.977-0.987 | |
| Hexa | PCB-131 | * | * | n NotF η | 0.91 | * | | 1010 | 2.5 | 0.647 | * | 0.981-0.991 | |
| Hexa | PCB-146/165 | * | * | n NotF η | 1.16 | * | | 1010 | 2.5 | 0.511 | * | 0.986-0.996 | |
| Hexa | PCB-132/161 | * | * | n NotF η | 1.11 | * | | 1010 | 2.5 | 0.531 | * | 0.992-1.002 | |
| Hexa | PCB-153 | * | * | n NotF η | 1.18 | * | | 1010 | 2.5 | 0.502 | * | 0.995-1.005 | |
| Hexa | PCB-168 | * | * | n NotF η | 1.37 | * | | 1010 | 2.5 | 0.432 | * | 1.000-1.010 | |
| Hexa | PCB-141 | * | * | n NotF η | 0.97 | * | | 1010 | 2.5 | 0.602 | * | 0.996-1.005 | |
| Hexa | PCB-137 | * | * | n NotF η | 1.07 | * | | 1010 | 2.5 | 0.548 | * | 1.004-1.014 | |
| Hexa | PCB-130 | * | * | n NotF η | 0.85 | * | | 1010 | 2.5 | 0.692 | * | 1.007-1.017 | |
| Hexa | PCB-138/163/164 | * | * | n NotF η | 1.23 | * | | 1010 | 2.5 | 0.484 | * | 0.996-1.006 | |
| Hexa | PCB-158/160 | * | * | n NotF η | 1.29 | * | | 1010 | 2.5 | 0.460 | * | 1.001-1.011 | |
| Hexa | PCB-129 | * | * | n NotF η | 0.92 | * | | 1010 | 2.5 | 0.641 | * | 1.007-1.017 | |
| Hexa | PCB-166 | * | * | n NotF η | 1.12 | * | | 1010 | 2.5 | 0.494 | * | 0.988-0.998 | |
| Hexa | PCB-159 | * | * | n NotF η | 1.16 | * | | 1010 | 2.5 | 0.473 | * | 0.995-1.005 | |
| Hexa | PCB-128/162 | * | * | n NotF η | 1.02 | * | | 1010 | 2.5 | 0.541 | * | 1.002-1.012 | |
| Hexa | PCB-167 | * | * | n NotF η | 1.06 | * | | 1010 | 2.5 | 0.476 | * | 0.995-1.005 | |
| Hexa | PCB-156 | * | * | n NotF η | 1.18 | * | | 1010 | 2.5 | 0.440 | * | 0.995-1.005 | |
| Hexa | PCB-157 | * | * | n NotF η | 1.08 | * | | 1010 | 2.5 | 0.466 | * | 0.995-1.005 | |
| Hexa | PCB-169 | * | * | n NotF η | 1.11 | * | | 1010 | 2.5 | 0.487 | * | 0.995-1.005 | |
| Hepta | PCB-188 | * | * | n NotF η | 1.40 | * | | 1340 | 2.5 | 0.443 | * | 0.995-1.005 | |
| Hepta | PCB-184 | * | * | n NotF η | 1.24 | * | | 1340 | 2.5 | 0.503 | * | 1.006-1.016 | |
| Hepta | PCB-179 | * | * | n NotF η | 1.30 | * | | 1340 | 2.5 | 0.477 | * | 1.024-1.034 | |
| Hepta | PCB-176 | * | * | n NotF η | 1.36 | * | | 1340 | 2.5 | 0.456 | * | 1.035-1.045 | |
| Hepta | PCB-186 | * | * | n NotF η | 1.28 | * | | 1340 | 2.5 | 0.487 | * | 1.049-1.059 | |
| Hepta | PCB-178 | * | * | n NotF η | 0.94 | * | | 1340 | 2.5 | 0.664 | * | 1.061-1.071 | |
| Hepta | PCB-175 | * | * | n NotF η | 0.97 | * | | 1340 | 2.5 | 0.642 | * | 1.069-1.079 | |
| Hepta | PCB-182/187 | * | * | n NotF η | 1.01 | * | | 1340 | 2.5 | 0.613 | * | 1.073-1.083 | |
| Hepta | PCB-183 | * | * | n NotF η | 1.08 | * | | 1340 | 2.5 | 0.575 | * | 1.080-1.090 | |
| Hepta | PCB-185 | * | * | n NotF η | 1.34 | * | | 1340 | 2.5 | 0.572 | * | 0.951-0.961 | |
| Hepta | PCB-174 | * | * | n NotF η | 1.34 | * | | 1340 | 2.5 | 0.574 | * | 0.958-0.968 | |
| Hepta | PCB-181 | * | * | n NotF η | 1.36 | * | | 1340 | 2.5 | 0.564 | * | 0.961-0.971 | |
| Hepta | PCB-177 | * | * | n NotF η | 1.24 | * | | 1340 | 2.5 | 0.619 | * | 0.964-0.974 | |
| Hepta | PCB-171 | * | * | n NotF η | 1.31 | * | | 1340 | 2.5 | 0.585 | * | 0.970-0.980 | |
| Hepta | PCB-173 | * | * | n NotF η | 1.16 | * | | 1340 | 2.5 | 0.662 | * | 0.979-0.989 | |
| Hepta | PCB-172 | * | * | n NotF η | 1.22 | * | | 1340 | 2.5 | 0.628 | * | 0.988-0.998 | |
| Hepta | PCB-192 | * | * | n NotF η | 1.53 | * | | 1340 | 2.5 | 0.503 | * | 0.991-1.001 | |
| Hepta | PCB-180 | * | * | n NotF η | 1.43 | * | | 1340 | 2.5 | 0.538 | * | 0.995-1.005 | |

Analyst: DMS

Date: 9/23/14

Client ID: Method Blank
Lab ID: B4I0047-BLK1

Filename: 140919E1 S:5 Acq:19-SEP-14 13:50:37
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000

ConCal: ST140919E1-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-------------|------|-----|-------------|------|------|------|-------|-----|-------|-----|-------------|-----|
| Hepta | PCB-193 | * | * n | NotF η | 1.65 | * | | 1340 | 2.5 | 0.464 | * | 0.999-1.009 | |
| Hepta | PCB-191 | * | * n | NotF η | 1.67 | * | | 1340 | 2.5 | 0.459 | * | 1.004-1.014 | |
| Hepta | PCB-170 | * | * n | NotF η | 1.50 | * | | 1340 | 2.5 | 0.557 | * | 0.995-1.005 | |
| Hepta | PCB-190 | * | * n | NotF η | 2.02 | * | | 1340 | 2.5 | 0.414 | * | 0.998-1.008 | |
| Hepta | PCB-189 | * | * n | NotF η | 1.54 | * | | 1340 | 2.5 | 0.405 | * | 0.995-1.005 | |
| Octa | PCB-202 | * | * n | NotF η | 1.04 | * | | 1320 | 2.5 | 0.728 | * | 0.995-1.005 | |
| Octa | PCB-201 | * | * n | NotF η | 1.10 | * | | 1320 | 2.5 | 0.687 | * | 1.006-1.016 | |
| Octa | PCB-204 | * | * n | NotF η | 0.99 | * | | 1320 | 2.5 | 0.762 | * | 1.009-1.019 | |
| Octa | PCB-197 | * | * n | NotF η | 1.07 | * | | 1320 | 2.5 | 0.706 | * | 1.015-1.025 | |
| Octa | PCB-200 | * | * n | NotF η | 1.02 | * | | 1320 | 2.5 | 0.744 | * | 1.032-1.044 | |
| Octa | PCB-198 | * | * n | NotF η | 0.74 | * | | 1320 | 2.5 | 1.02 | * | 1.058-1.068 | |
| Octa | PCB-199 | * | * n | NotF η | 0.73 | * | | 1320 | 2.5 | 1.04 | * | 1.060-1.070 | |
| Octa | PCB-196/203 | * | * n | NotF η | 0.77 | * | | 1320 | 2.5 | 0.980 | * | 1.066-1.076 | |
| Octa | PCB-195 | * | * n | NotF η | 1.20 | * | | 1480 | 2.5 | 0.705 | * | 0.979-0.989 | |
| Octa | PCB-194 | * | * n | NotF η | 1.25 | * | | 1480 | 2.5 | 0.679 | * | 0.995-1.005 | |
| Octa | PCB-205 | * | * n | NotF η | 1.41 | * | | 1480 | 2.5 | 0.599 | * | 1.001-1.011 | |
| Nona | PCB-208 | * | * n | NotF η | 0.96 | * | | 1330 | 2.5 | 0.501 | * | 0.995-1.005 | |
| Nona | PCB-207 | * | * n | NotF η | 0.92 | * | | 1330 | 2.5 | 0.525 | * | 1.001-1.011 | |
| Nona | PCB-206 | * | * n | NotF η | 1.03 | * | | 1330 | 2.5 | 0.953 | * | 0.995-1.005 | |
| Deca | PCB-209 | * | * n | NotF η | 1.18 | * | | 1070 | 2.5 | 0.897 | * | 0.995-1.005 | |

Analyst: *DMS*

Date: *9/23/14*

Client ID: Method Blank
Lab ID: B4I0047-BLK1

Filename: 140919E1 S:5 Acq:19-SEP-14 13:50:37
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: NA

ConCal: ST140919E1-1

| Name | Resp | RA | RT | RRF | Conc |
|-----------------|------|-----|--------|------|---------------|
| Total Mono-PCB | * | * n | NotFnd | 1.22 | * |
| Total Di-PCB | * | * n | NotFnd | 1.21 | * |
| Total Tri-PCB | * | * n | NotFnd | 1.16 | * |
| Total Tri-PCB | * | * n | NotFnd | 1.35 | * Sum:0.00000 |
| 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:10.3087350000

Integrations

by

Analyst: *DMS*

Date: *9/23/14*

Client ID: Method Blank
Lab ID: B4I0047-BLK1

Filename: 140919E1 S:5 Acq:19-SEP-14 13:50:37
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000

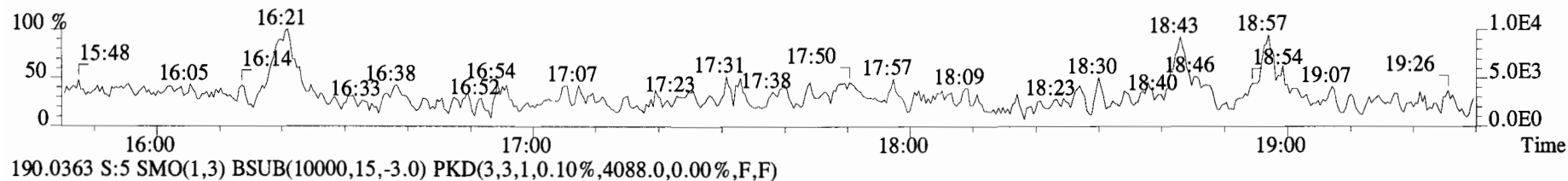
ConCal: ST140919E1-1
EndCAL: NA

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec | CRS vs. RS | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec |
|-------------|----------|--------|------|-------|-------|-------------|-----|------|------|------------|-------------|----------|--------|------|-------|-------|-------------|-----|------|------|
| 13C-PCB-1 | 1.00e+08 | 3.43 y | 0.89 | 16:19 | 0.624 | 0.622-0.628 | | 1190 | 59.5 | | | | | | | | | | | |
| 13C-PCB-3 | 9.83e+07 | 3.57 y | 0.93 | 18:56 | 0.724 | 0.721-0.729 | | 1120 | 56.1 | | 13C-PCB-79 | 1.30e+08 | 0.79 y | 1.01 | 38:01 | 1.029 | 1.023-1.033 | | 1820 | 90.9 |
| 13C-PCB-4 | 7.10e+07 | 1.58 y | 0.55 | 20:16 | 0.775 | 0.772-0.780 | | 1370 | 68.6 | | 13C-PCB-178 | 6.43e+07 | 0.47 y | 0.63 | 45:50 | 0.985 | 0.979-0.989 | | 1980 | 98.8 |
| 13C-PCB-9 | 1.08e+08 | 1.59 y | 0.83 | 22:03 | 0.843 | 0.840-0.848 | | 1380 | 69.0 | | | | | | | | | | | |
| 13C-PCB-11 | 1.37e+08 | 1.57 y | 0.94 | 25:26 | 0.973 | 0.968-0.978 | | 1540 | 77.1 | PS vs. IS | | | | | | | | | | |
| 13C-PCB-19 | 6.19e+07 | 1.15 y | 0.53 | 24:26 | 0.934 | 0.929-0.939 | | 1230 | 61.4 | | | | | | | | | | | |
| 13C-PCB-28 | 7.01e+07 | 1.12 y | 0.89 | 29:18 | 1.004 | 0.999-1.009 | | 1440 | 72.2 | | 13C-PCB-79 | 1.30e+08 | 0.79 y | 1.20 | 38:01 | 0.969 | 0.963-0.973 | | 2170 | 109 |
| 13C-PCB-32 | 1.07e+08 | 1.14 y | 0.81 | 27:20 | 1.045 | 1.041-1.051 | | 1390 | 69.7 | | 13C-PCB-178 | 6.43e+07 | 0.47 y | 0.94 | 45:50 | 0.925 | 0.920-0.930 | | 2170 | 108 |
| 13C-PCB-37 | 7.71e+07 | 1.10 y | 0.83 | 33:10 | 1.136 | 1.131-1.143 | | 1700 | 84.8 | | | | | | | | | | | |
| 13C-PCB-47 | 8.06e+07 | 0.80 y | 0.74 | 32:12 | 0.871 | 0.867-0.875 | | 1520 | 76.0 | | | | | | | | | | | |
| 13C-PCB-52 | 7.66e+07 | 0.80 y | 0.71 | 31:42 | 0.858 | 0.853-0.861 | | 1520 | 75.9 | | | | | | | | | | | |
| 13C-PCB-54 | 9.45e+07 | 0.81 y | 0.85 | 28:11 | 0.763 | 0.758-0.766 | | 1560 | 78.1 | | | | | | | | | | | |
| 13C-PCB-70 | 1.17e+08 | 0.80 y | 0.94 | 35:43 | 0.967 | 0.961-0.971 | | 1730 | 86.6 | | | | | | | | | | | |
| 13C-PCB-77 | 1.04e+08 | 0.80 y | 0.89 | 39:50 | 1.078 | 1.073-1.083 | | 1630 | 81.7 | | | | | | | | | | | |
| 13C-PCB-80 | 1.20e+08 | 0.82 y | 0.96 | 36:07 | 0.977 | 0.972-0.982 | | 1760 | 87.9 | | | | | | | | | | | |
| 13C-PCB-81 | 1.00e+08 | 0.80 y | 0.84 | 39:15 | 1.062 | 1.057-1.067 | | 1670 | 83.7 | | | | | | | | | | | |
| 13C-PCB-95 | 6.99e+07 | 1.57 y | 0.74 | 36:01 | 0.914 | 0.908-0.918 | | 1640 | 81.9 | RS | | | | | | | | | | |
| 13C-PCB-97 | 6.87e+07 | 1.58 y | 0.69 | 39:00 | 0.989 | 0.984-0.994 | | 1740 | 86.9 | | | | | | | | | | | |
| 13C-PCB-101 | 7.43e+07 | 1.59 y | 0.79 | 37:42 | 0.956 | 0.951-0.961 | | 1650 | 82.4 | | Name | Resp | RA | RRF | RT | Conc | | | | |
| 13C-PCB-104 | 8.57e+07 | 1.59 y | 1.00 | 32:52 | 0.834 | 0.829-0.837 | | 1500 | 75.0 | | 13C-PCB-15 | 1.89e+08 | 1.57 y | 1.00 | 26:09 | 2000 | | | | |
| 13C-PCB-105 | 8.51e+07 | 1.64 y | 1.24 | 43:16 | 0.929 | 0.924-0.934 | | 1330 | 66.6 | | 13C-PCB-31 | 1.09e+08 | 1.10 y | 1.00 | 29:11 | 2000 | | | | |
| 13C-PCB-114 | 8.75e+07 | 1.65 y | 1.21 | 42:24 | 0.911 | 0.905-0.915 | | 1410 | 70.3 | | 13C-PCB-60 | 1.42e+08 | 0.80 y | 1.00 | 36:57 | 2000 | | | | |
| 13C-PCB-118 | 9.91e+07 | 1.60 y | 0.98 | 41:45 | 1.059 | 1.054-1.064 | | 1750 | 87.7 | | 13C-PCB-111 | 1.15e+08 | 1.57 y | 1.00 | 39:25 | 2000 | | | | |
| 13C-PCB-123 | 9.56e+07 | 1.58 y | 0.95 | 41:34 | 1.055 | 1.049-1.059 | | 1750 | 87.7 | | 13C-PCB-128 | 1.03e+08 | 1.29 y | 1.00 | 46:33 | 2000 | | | | |
| 13C-PCB-126 | 8.09e+07 | 1.64 y | 1.16 | 45:30 | 0.977 | 0.972-0.982 | | 1350 | 67.5 | | 13C-PCB-205 | 7.99e+07 | 0.91 y | 1.00 | 54:15 | 2000 | | | | |
| 13C-PCB-127 | 9.74e+07 | 1.63 y | 1.34 | 43:35 | 0.936 | 0.931-0.941 | | 1410 | 70.3 | | | | | | | | | | | |
| 13C-PCB-138 | 9.32e+07 | 1.30 y | 1.04 | 45:00 | 0.967 | 0.961-0.971 | | 1730 | 86.6 | | | | | | | | | | | |
| 13C-PCB-141 | 9.52e+07 | 1.30 y | 1.07 | 44:09 | 0.948 | 0.943-0.953 | | 1720 | 86.1 | | | | | | | | | | | |
| 13C-PCB-153 | 9.48e+07 | 1.30 y | 1.11 | 43:25 | 0.933 | 0.927-0.937 | | 1650 | 82.5 | | | | | | | | | | | |
| 13C-PCB-155 | 7.77e+07 | 1.30 y | 0.83 | 37:14 | 0.945 | 0.939-0.949 | | 1630 | 81.4 | | | | | | | | | | | |
| 13C-PCB-156 | 1.09e+08 | 1.29 y | 1.24 | 48:15 | 1.037 | 1.032-1.042 | | 1700 | 85.2 | | | | | | | | | | | |
| 13C-PCB-157 | 1.18e+08 | 1.34 y | 1.31 | 48:31 | 1.042 | 1.037-1.047 | | 1740 | 87.1 | | | | | | | | | | | |
| 13C-PCB-159 | 1.01e+08 | 1.32 y | 1.20 | 46:16 | 0.994 | 0.989-0.999 | | 1640 | 81.9 | | | | | | | | | | | |
| 13C-PCB-167 | 1.12e+08 | 1.27 y | 1.32 | 46:57 | 1.009 | 1.004-1.014 | | 1640 | 81.9 | | | | | | | | | | | |
| 13C-PCB-169 | 1.03e+08 | 1.28 y | 1.22 | 50:39 | 1.088 | 1.082-1.092 | | 1640 | 82.0 | | | | | | | | | | | |
| 13C-PCB-170 | 5.10e+07 | 0.46 y | 0.54 | 51:00 | 1.096 | 1.089-1.101 | | 1850 | 92.3 | | | | | | | | | | | |
| 13C-PCB-180 | 6.33e+07 | 0.46 y | 0.67 | 49:32 | 1.064 | 1.059-1.069 | | 1820 | 91.0 | | | | | | | | | | | |
| 13C-PCB-188 | 7.55e+07 | 0.47 y | 0.94 | 43:03 | 0.925 | 0.919-0.929 | | 1560 | 78.2 | | | | | | | | | | | |
| 13C-PCB-189 | 6.39e+07 | 0.46 y | 0.72 | 52:28 | 1.127 | 1.120-1.132 | | 1730 | 86.6 | | | | | | | | | | | |
| 13C-PCB-194 | 5.80e+07 | 0.92 y | 0.81 | 53:58 | 0.995 | 0.990-1.000 | | 1790 | 89.6 | | | | | | | | | | | |
| 13C-PCB-202 | 7.95e+07 | 0.91 y | 0.83 | 48:28 | 1.041 | 1.036-1.046 | | 1850 | 92.6 | | | | | | | | | | | |
| 13C-PCB-206 | 4.59e+07 | 0.80 y | 0.66 | 55:36 | 1.025 | 1.021-1.031 | | 1740 | 87.2 | | | | | | | | | | | |
| 13C-PCB-208 | 8.30e+07 | 0.77 y | 1.12 | 53:15 | 0.982 | 0.976-0.986 | | 1850 | 92.5 | | | | | | | | | | | |
| 13C-PCB-209 | 4.08e+07 | 1.19 y | 0.61 | 56:56 | 1.049 | 1.044-1.054 | | 1660 | 83.2 | | | | | | | | | | | |

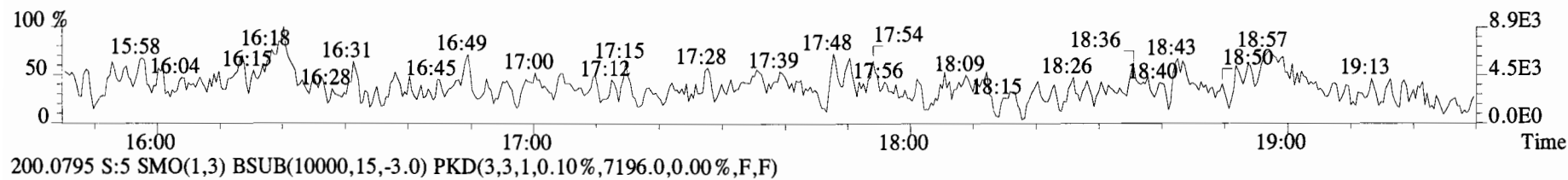
Analyst: DMS

Date: 9/23/14

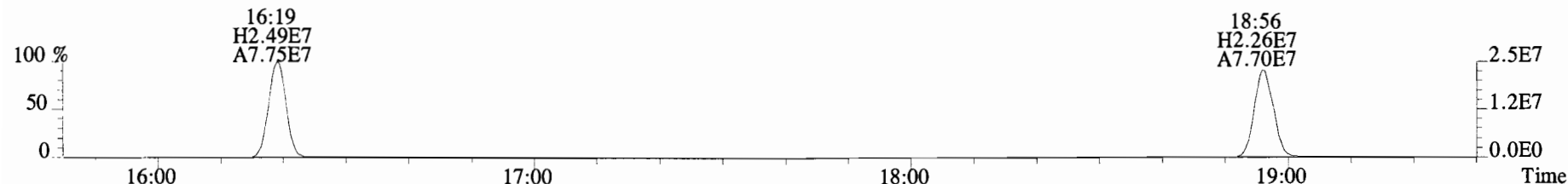
File:140919E1 #1-728 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
188.0393 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3820.0,0.00%,F,F)



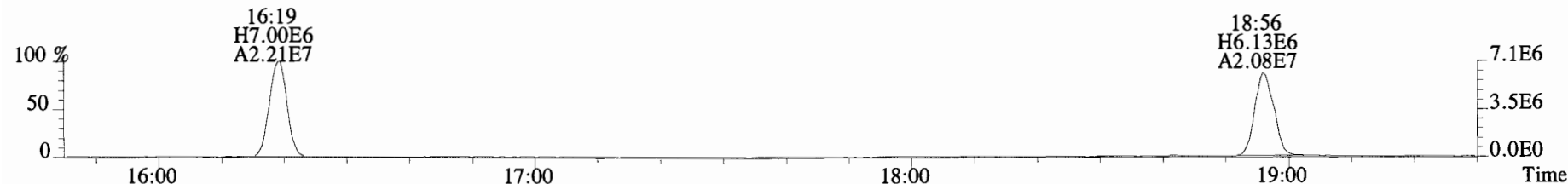
190.0363 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4088.0,0.00%,F,F)



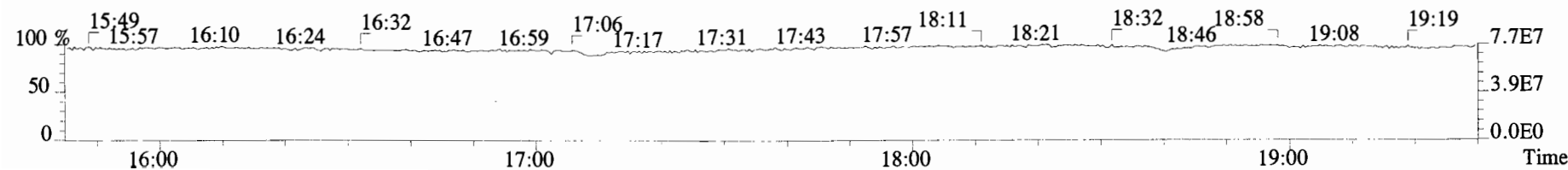
200.0795 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7196.0,0.00%,F,F)



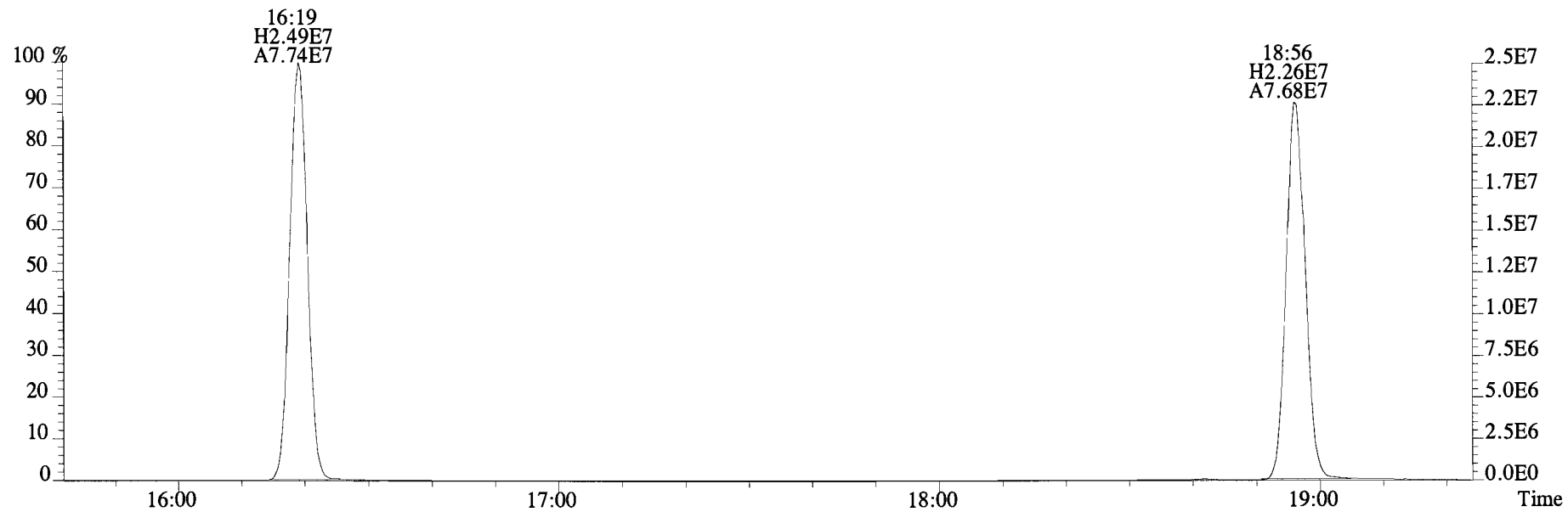
202.0766 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45132.0,0.00%,F,F)



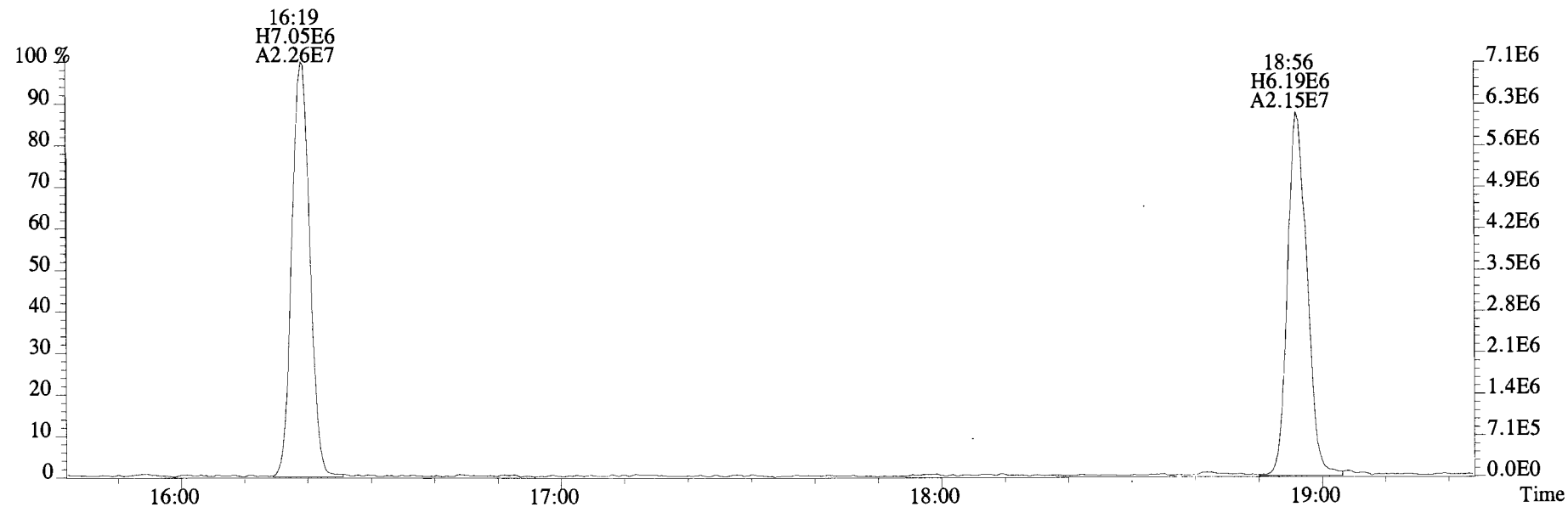
180.9880 S:5



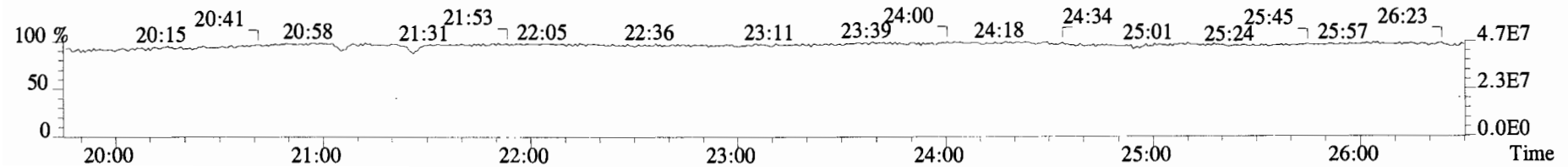
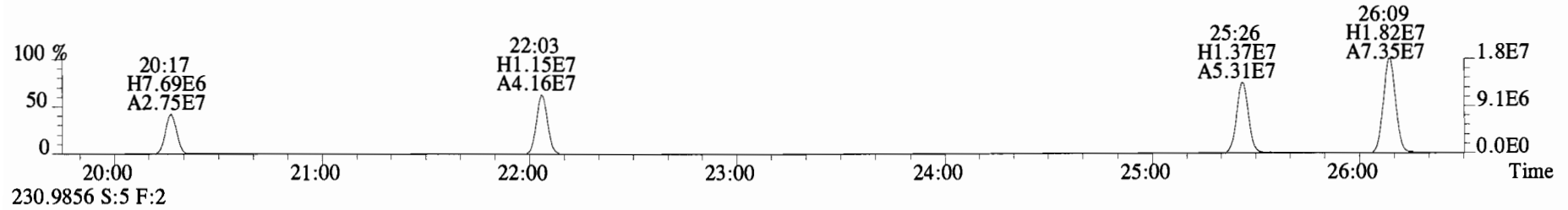
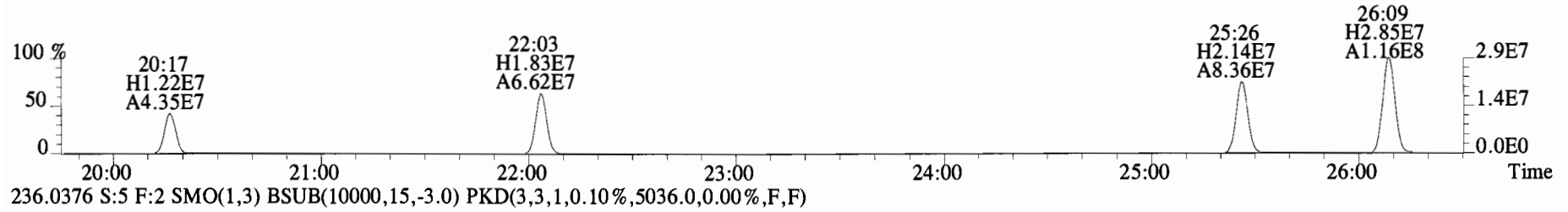
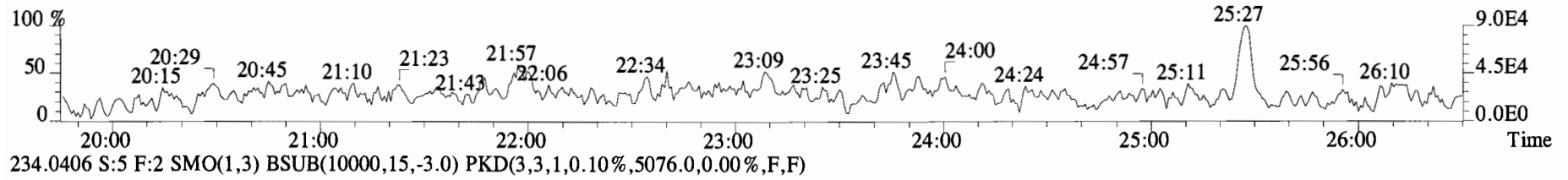
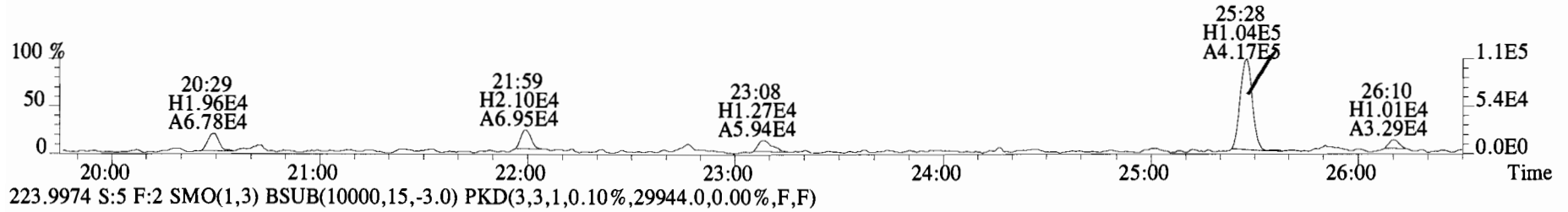
File:140919E1 #1-728 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
200.0795 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7196.0,0.00%,F,F)



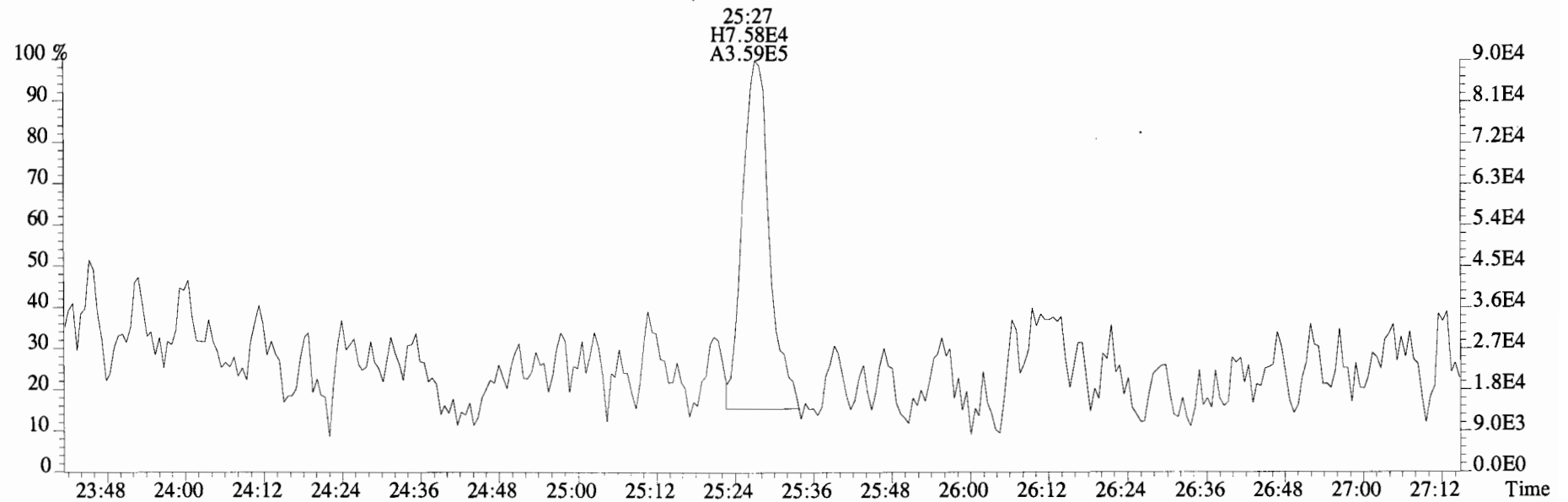
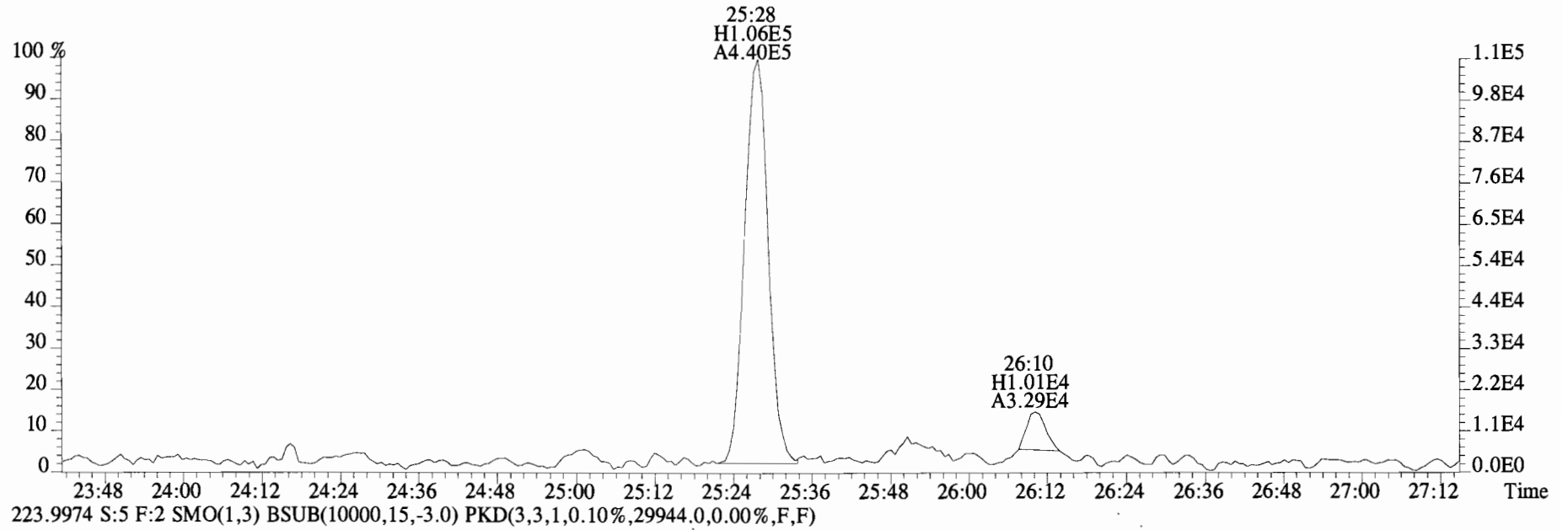
202.0766 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45132.0,0.00%,F,F)



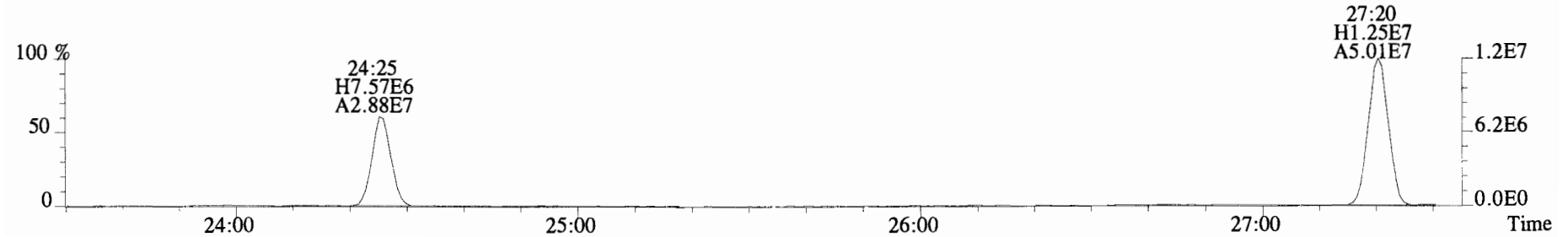
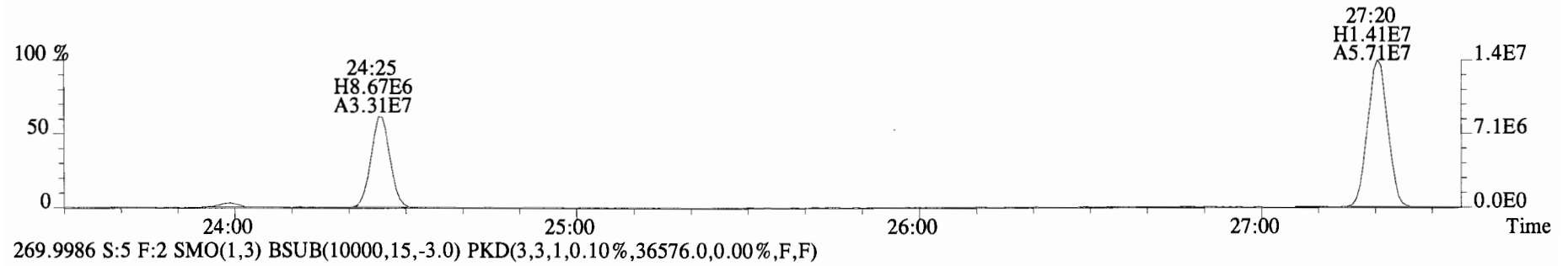
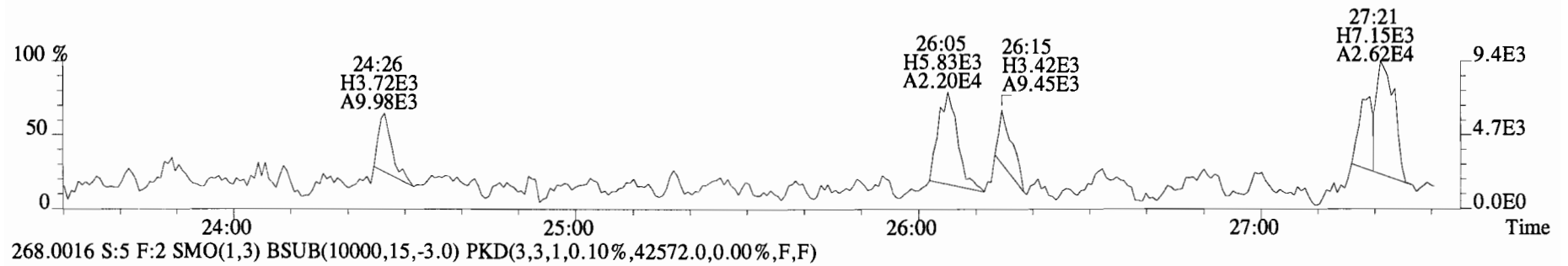
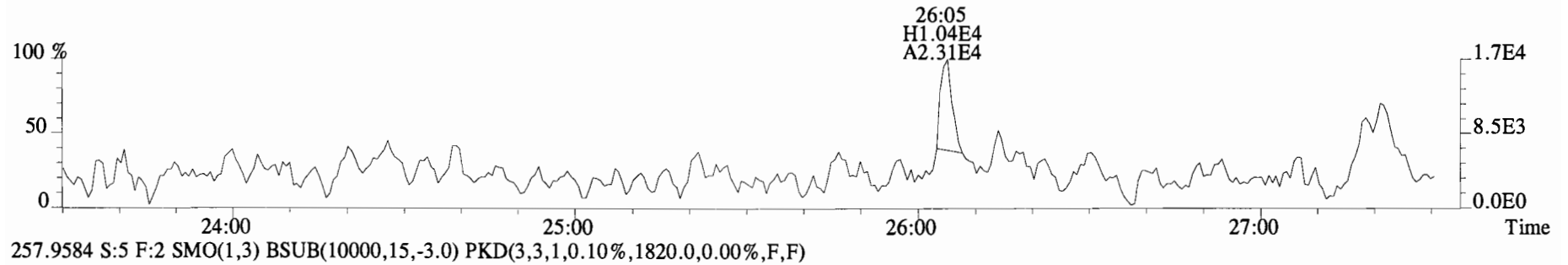
File:140919E1 #1-758 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
222.0003 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3692.0,0.00%,F,F)



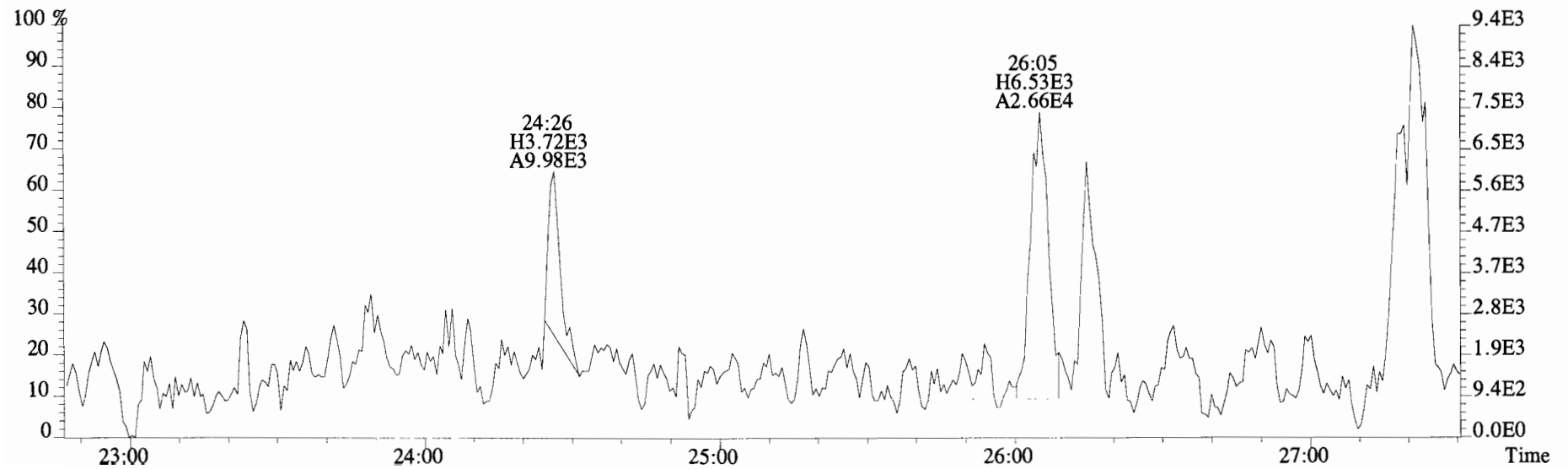
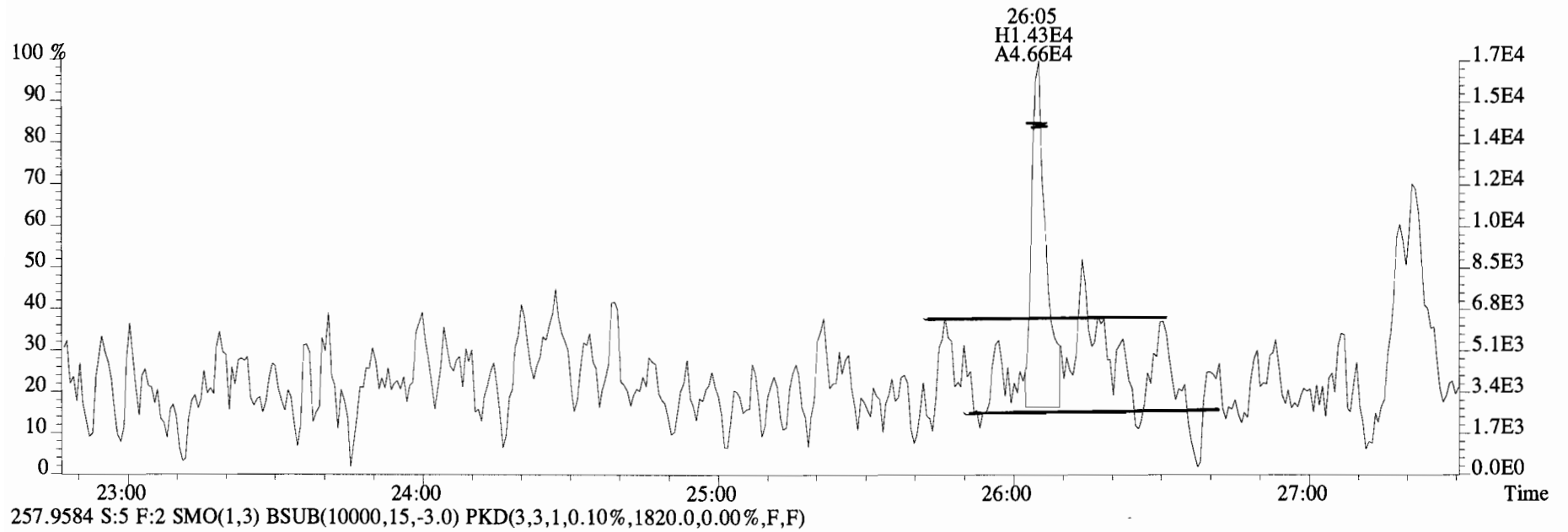
File:140919E1 #1-758 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
222.0003 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0)



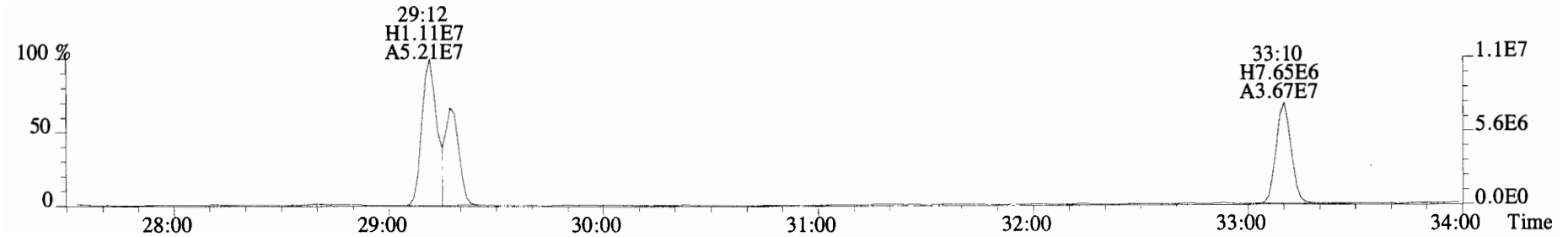
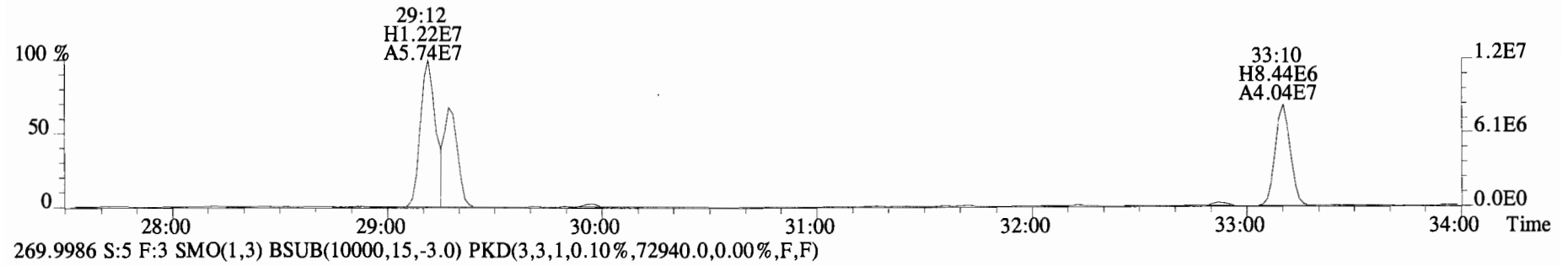
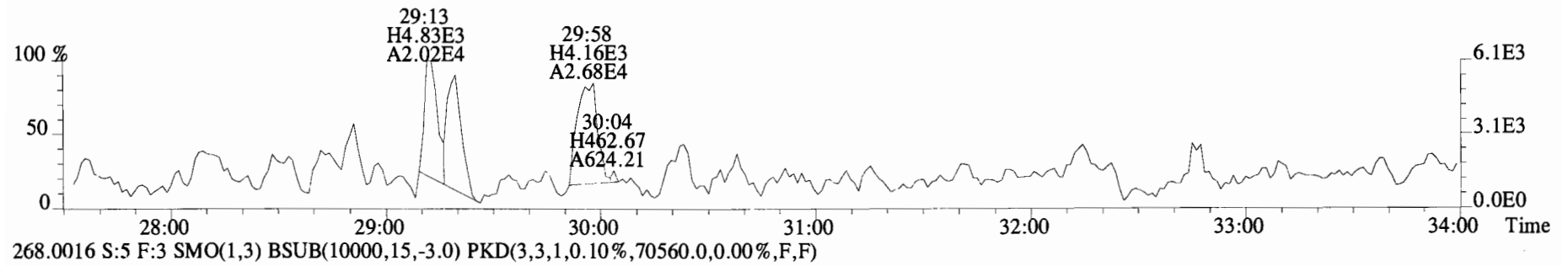
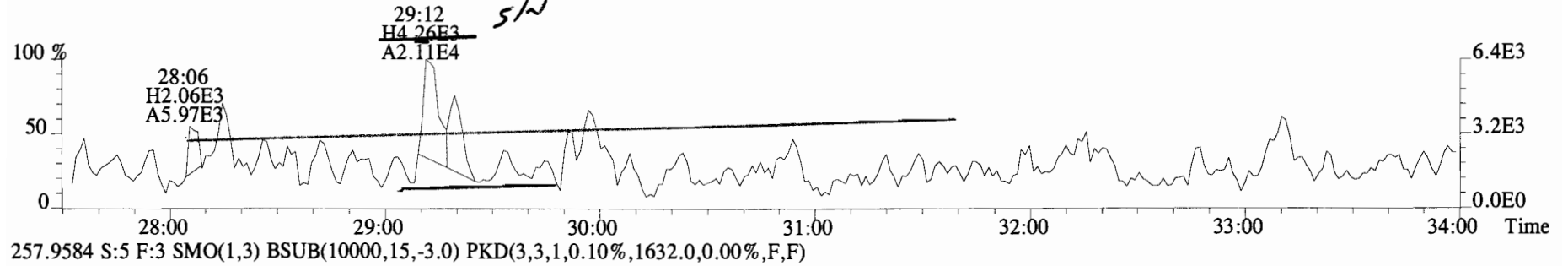
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Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
255.9613 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4864.0,0.00%,F,F)



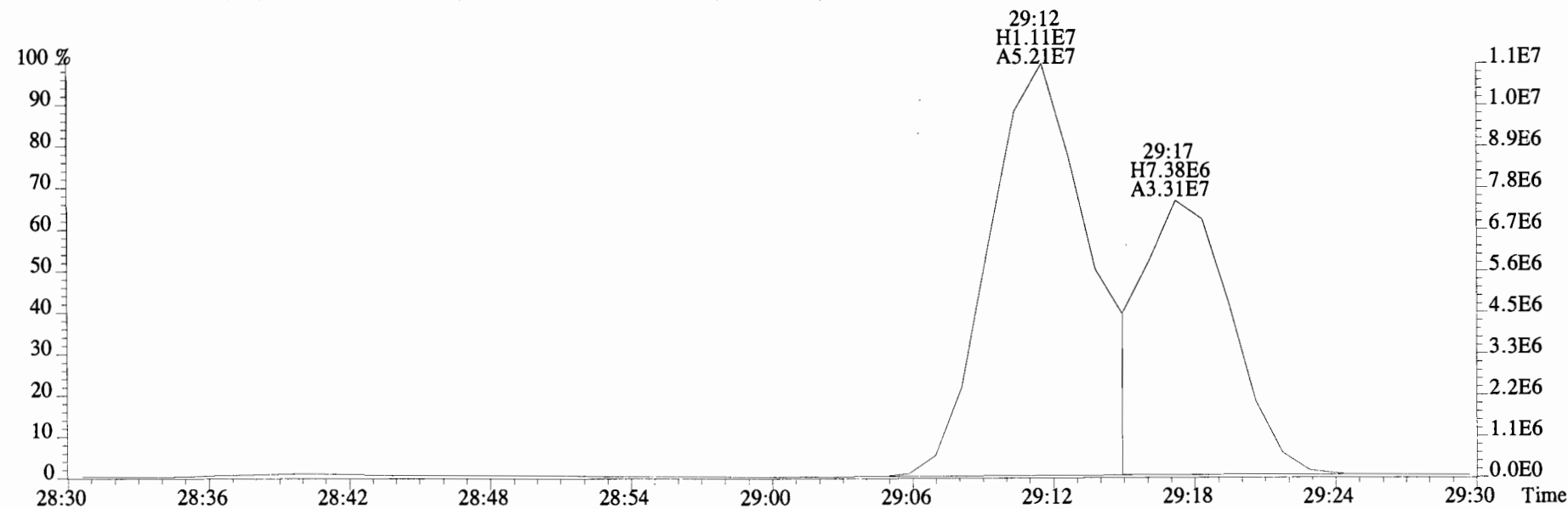
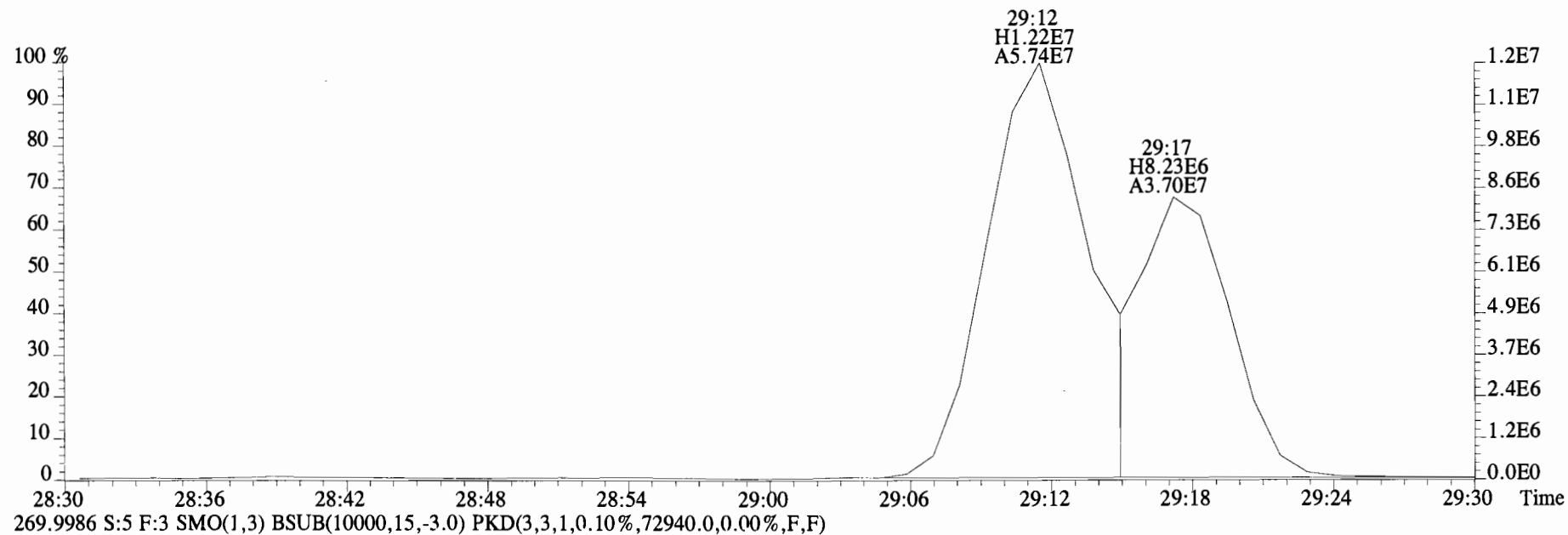
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
255.9613 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4864.0,0.00%,F,F)



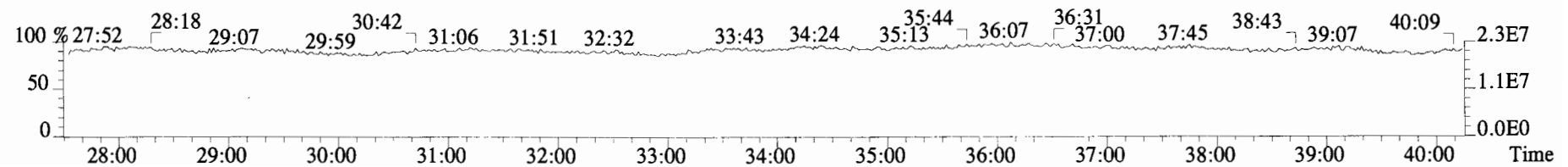
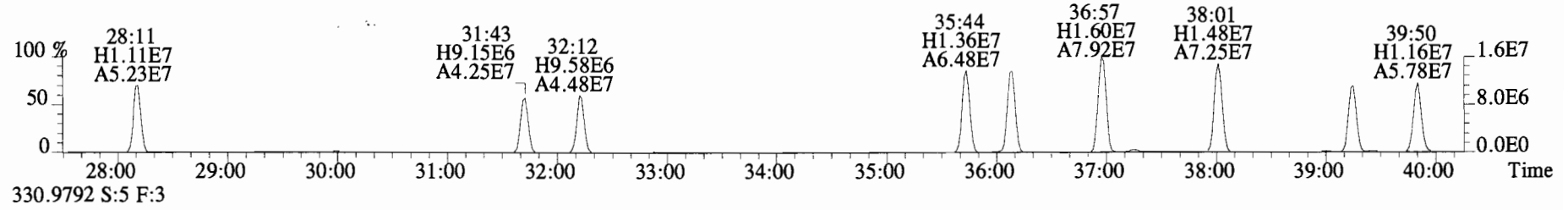
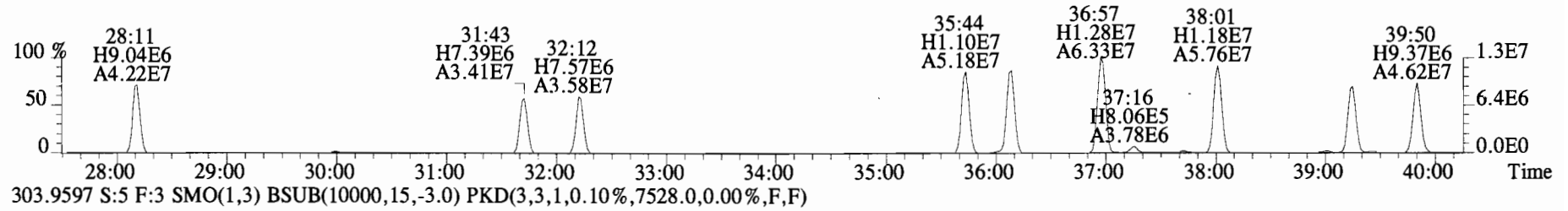
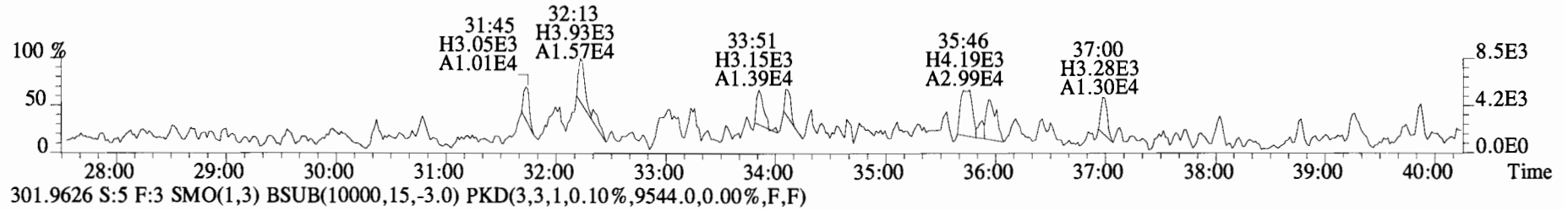
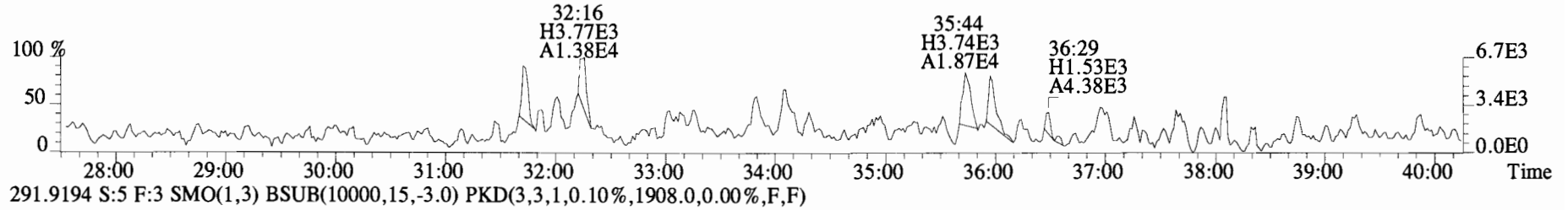
File:140919E1 #1-769 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
255.9613 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2244.0,0.00%,F,F)



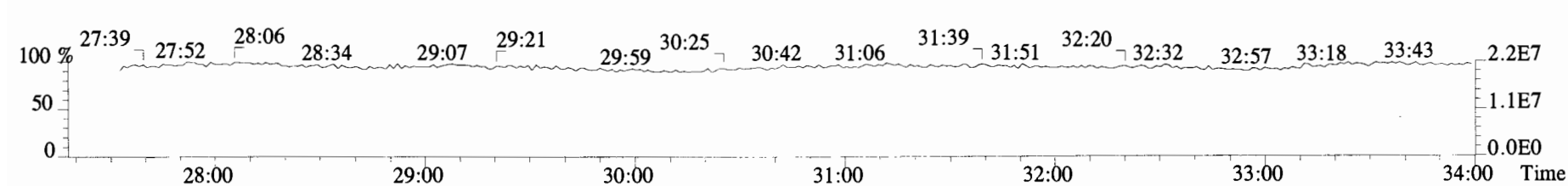
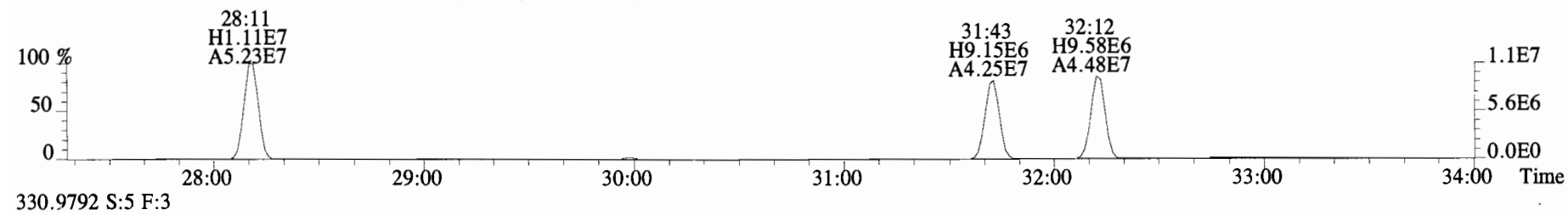
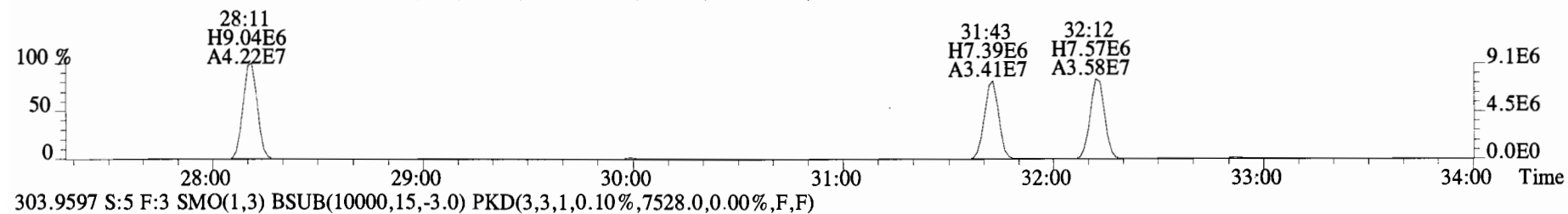
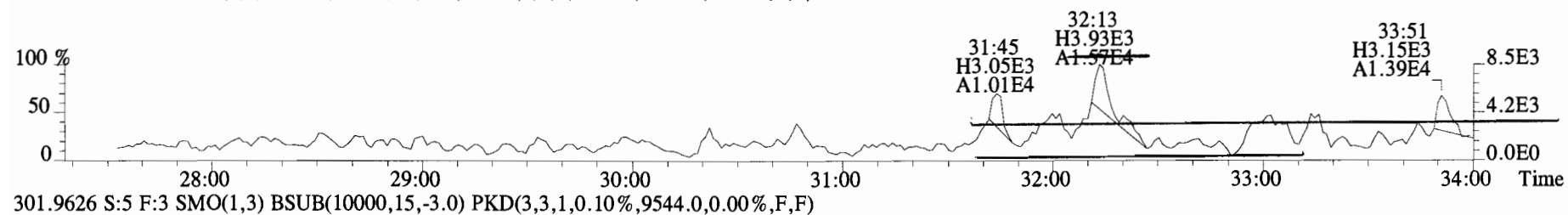
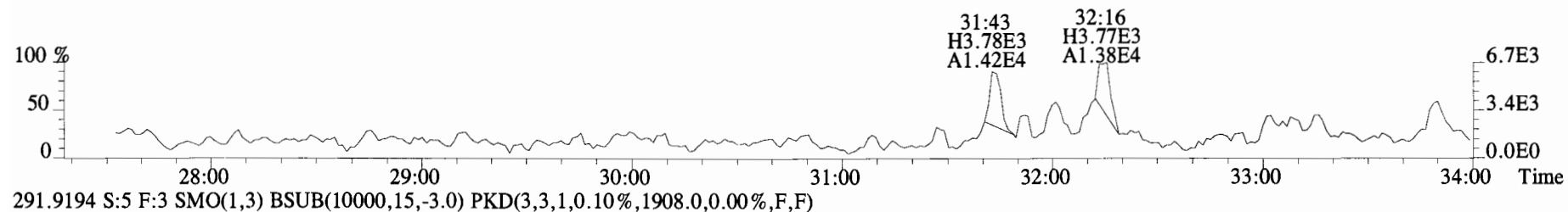
File:140919E1 #1-769 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
268.0016 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,70560.0,0.00%,F,F)



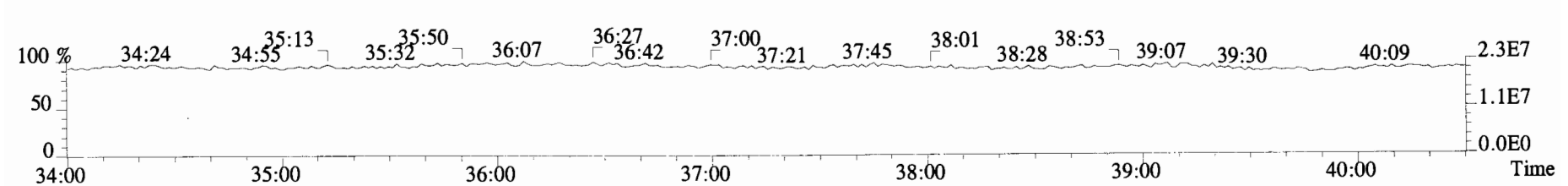
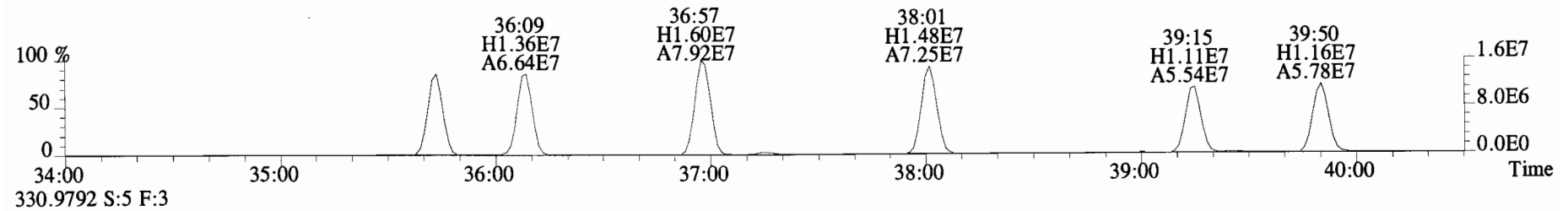
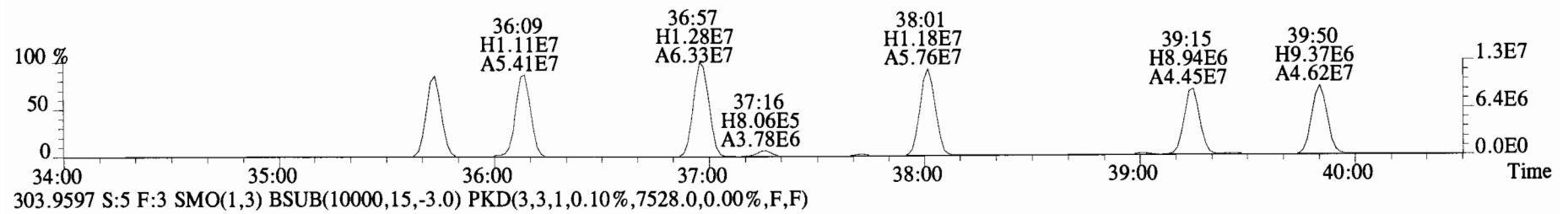
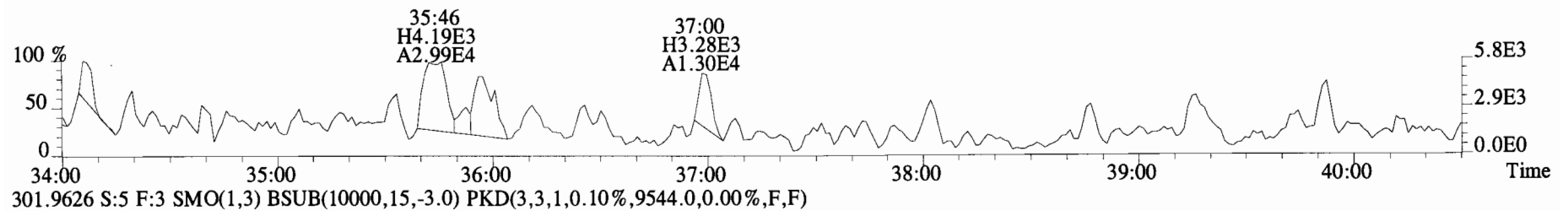
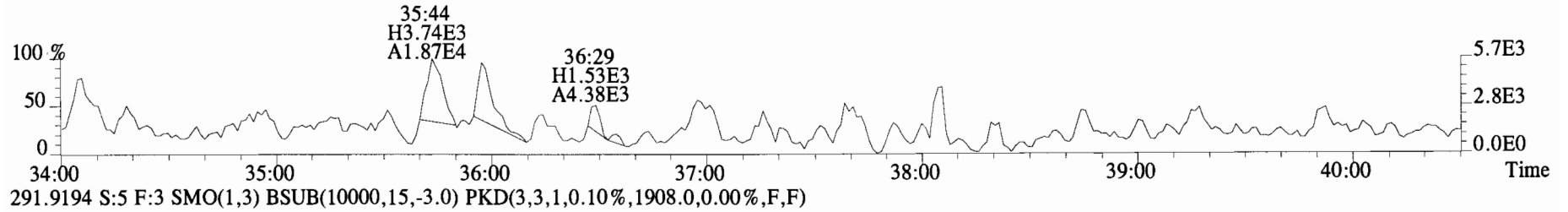
File:140919E1 #1-769 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1672.0,0.00%,F,F)



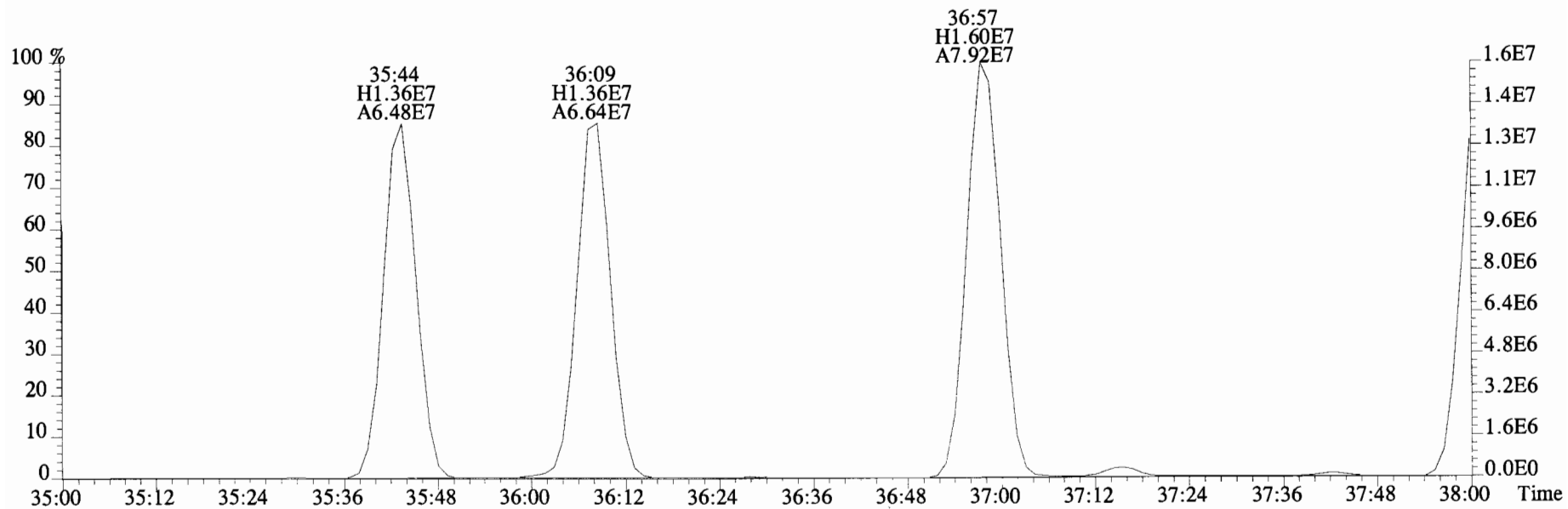
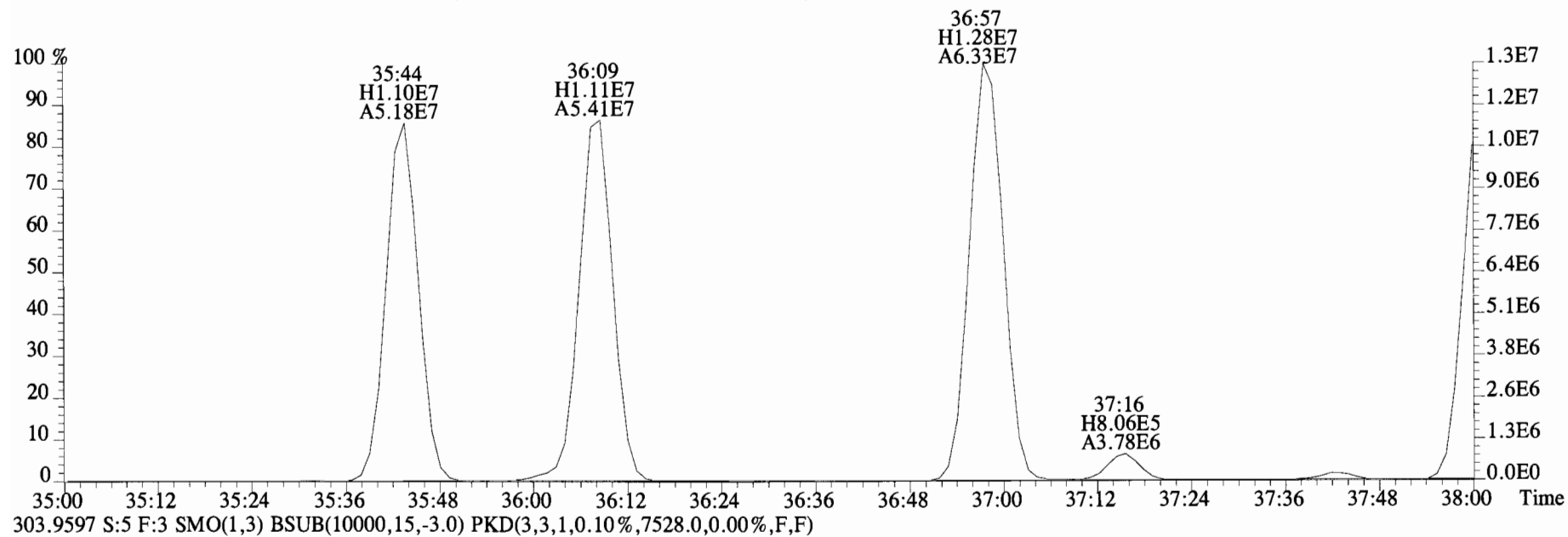
File:140919E1 #1-769 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
 289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1672.0,0.00%,F,F)



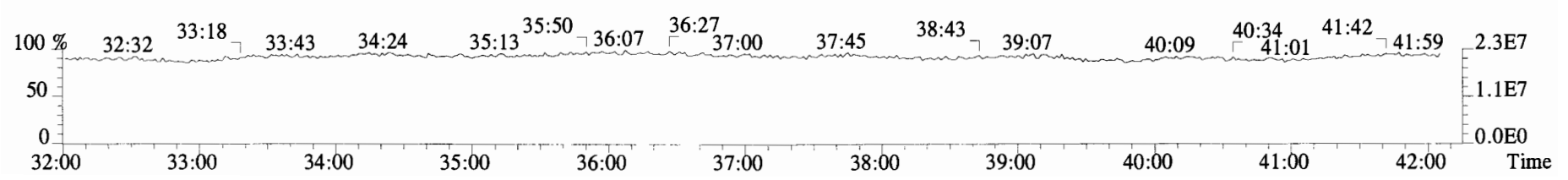
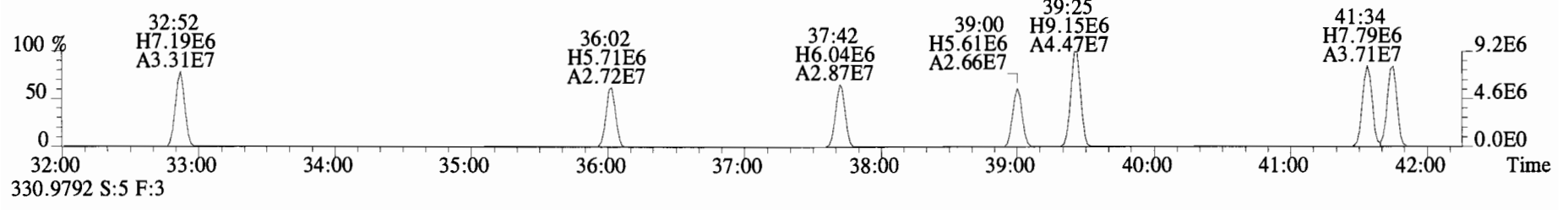
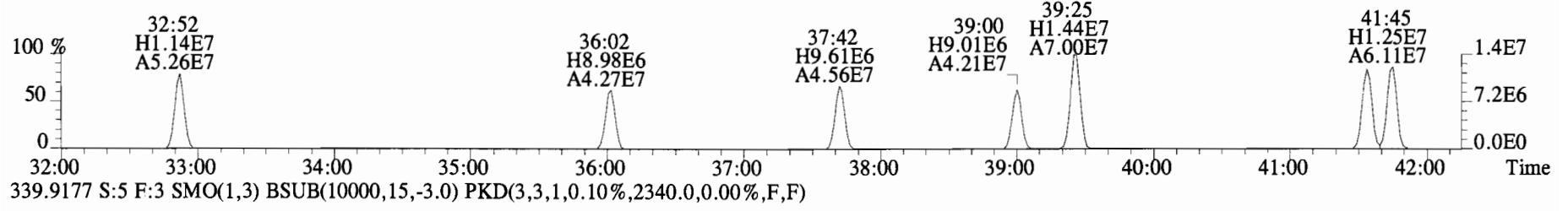
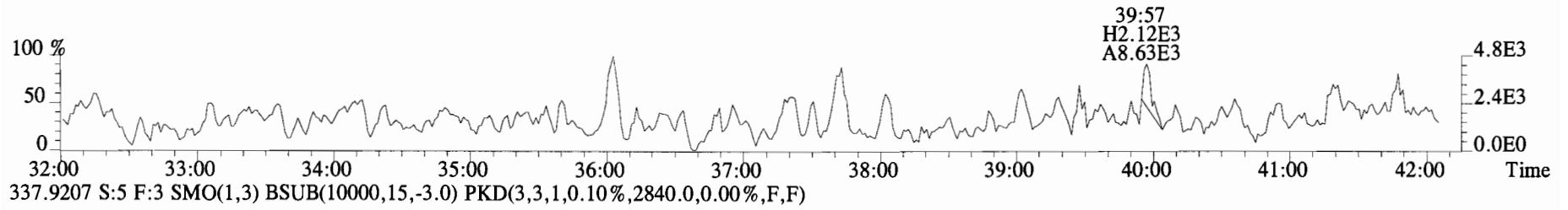
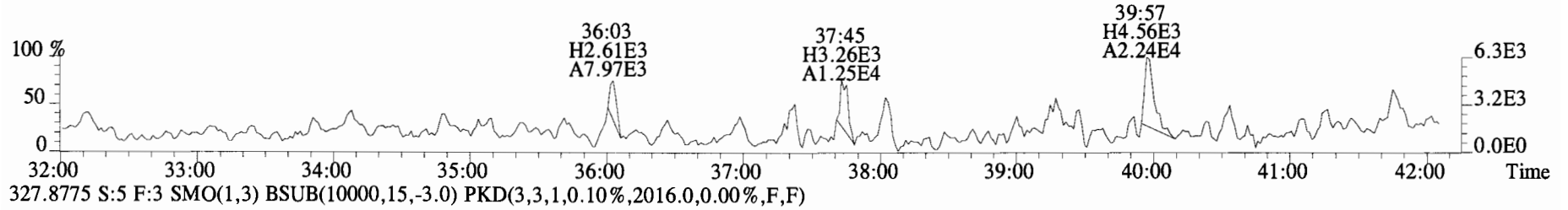
File:140919E1 #1-769 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1672.0,0.00%,F,F)



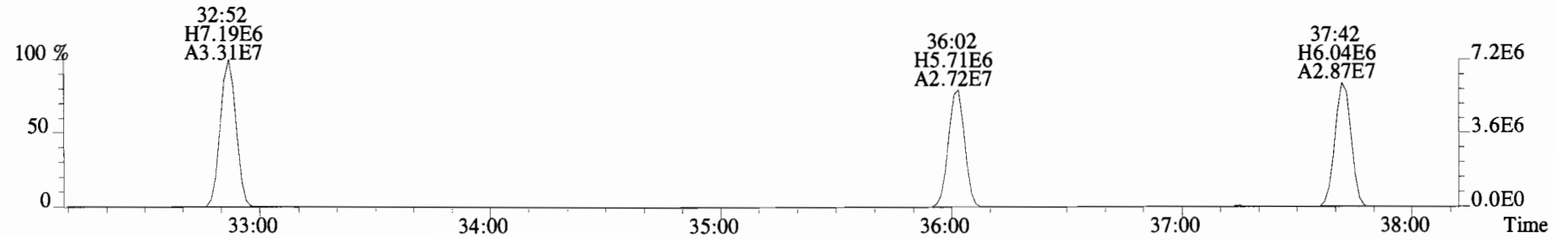
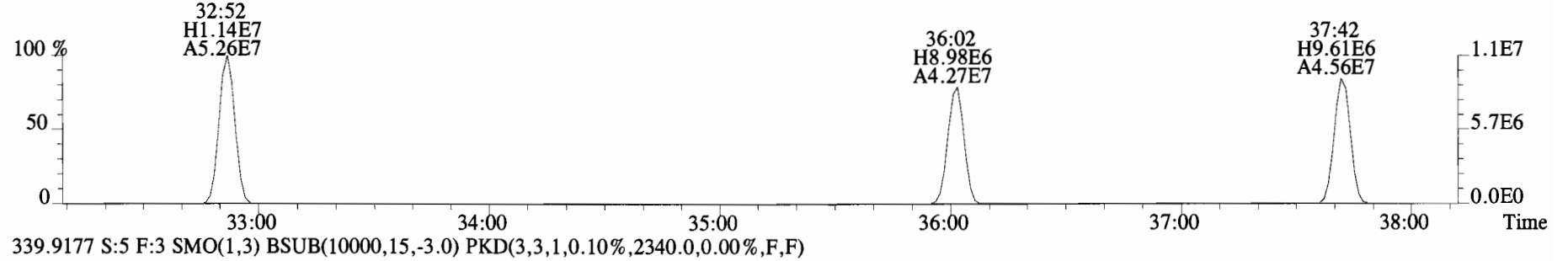
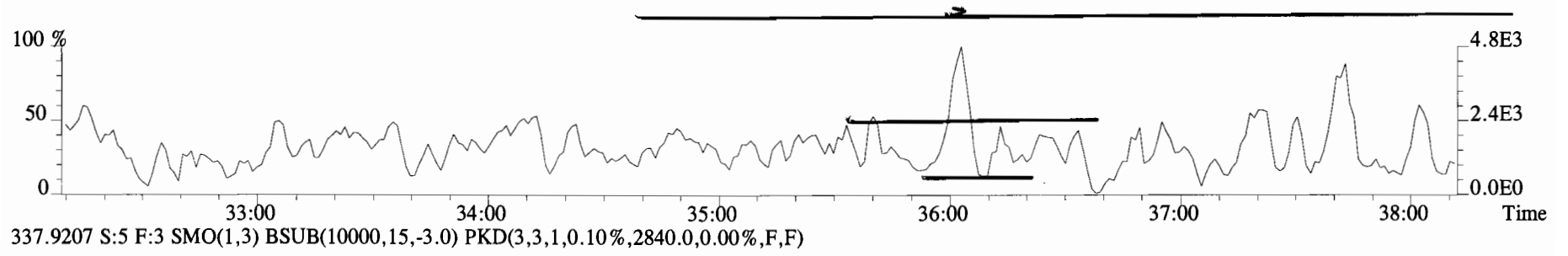
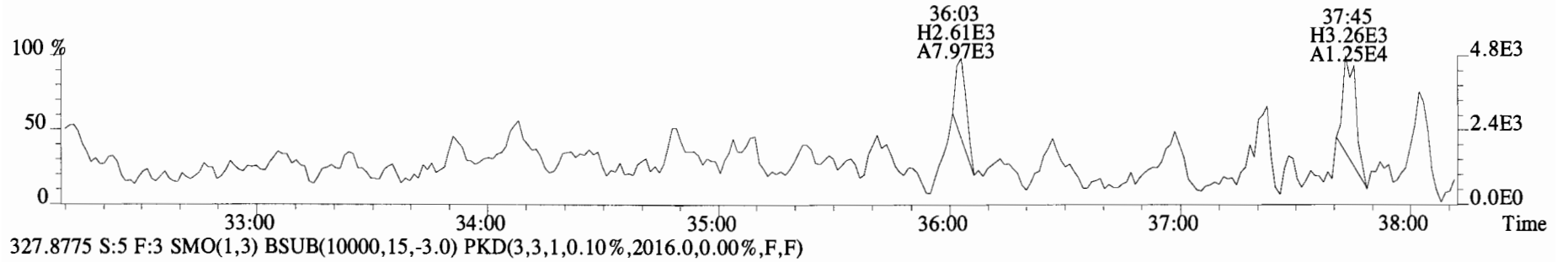
File:140919E1 #1-769 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9544.0,0.00%,F,F)



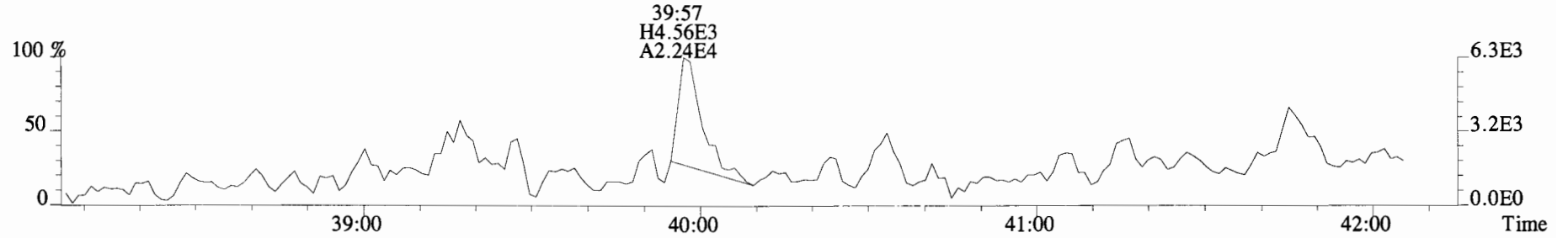
File:140919E1 #1-769 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1648.0,0.00%,F,F)



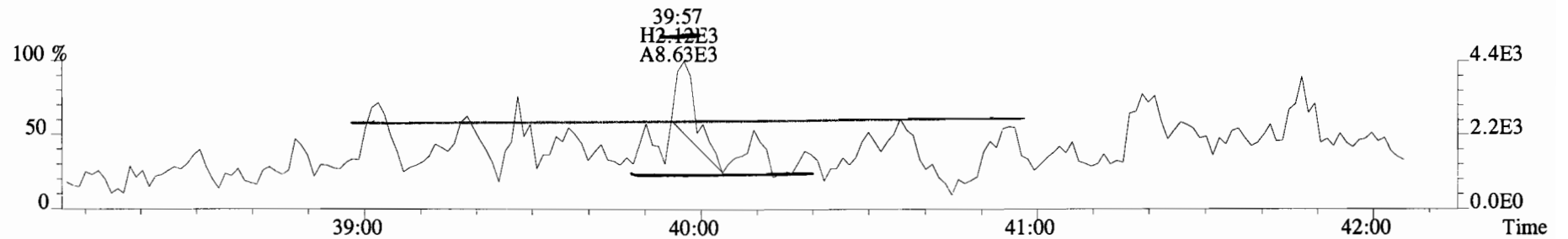
File:140919E1 #1-769 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1648.0,0.00%,F,F)



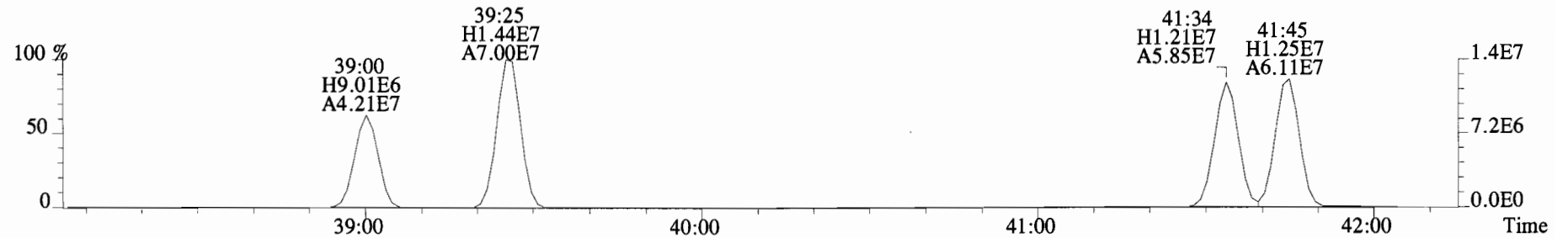
File:140919E1 #1-769 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1648.0,0.00%,F,F)



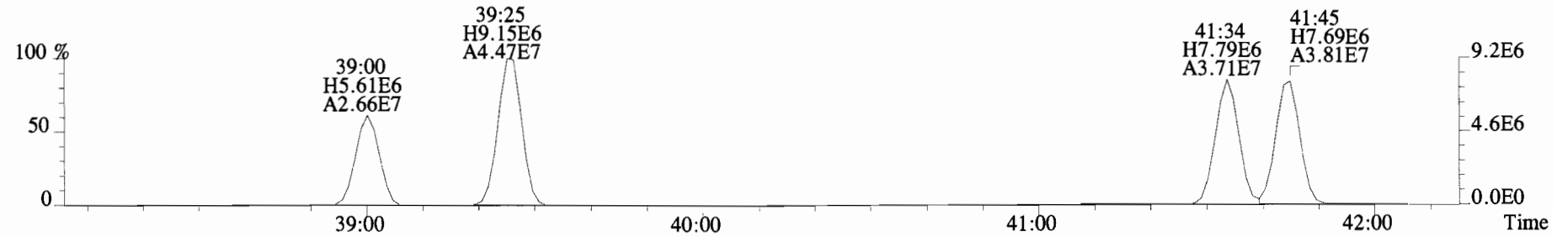
327.8775 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)



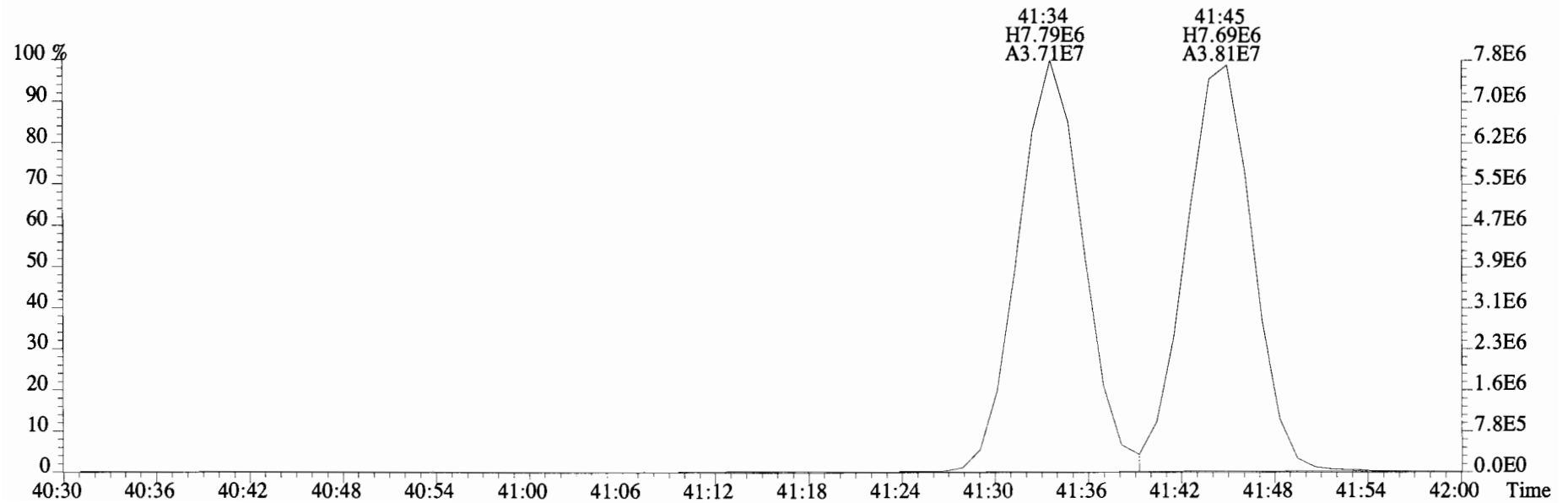
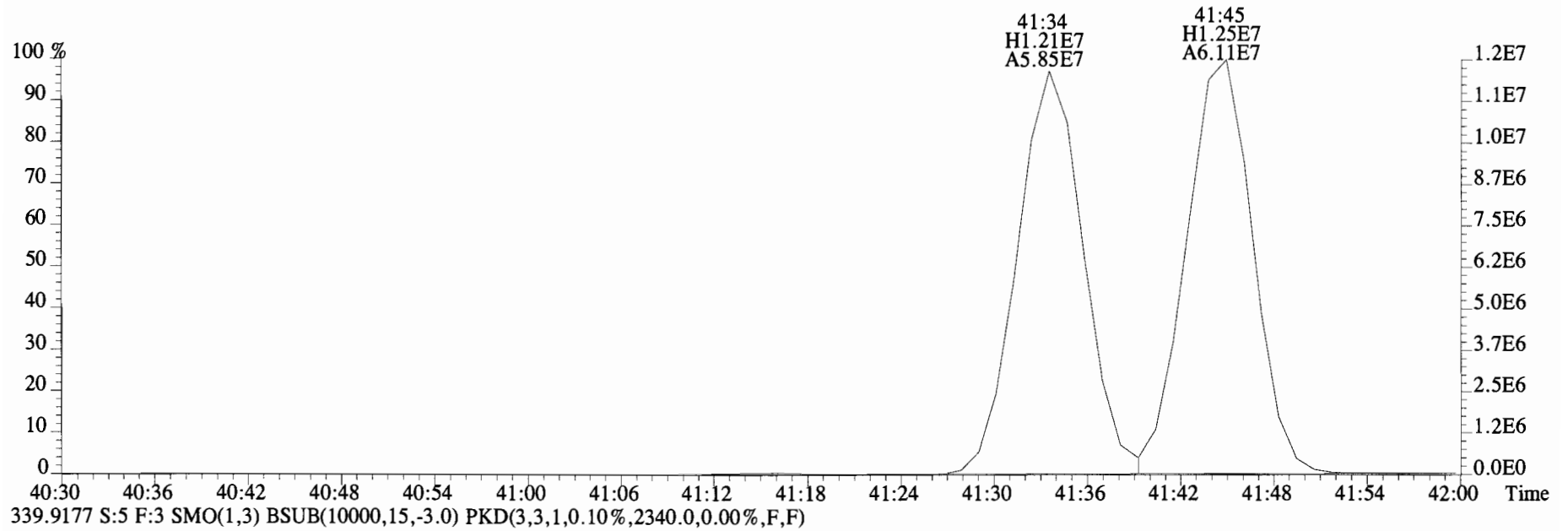
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2840.0,0.00%,F,F)



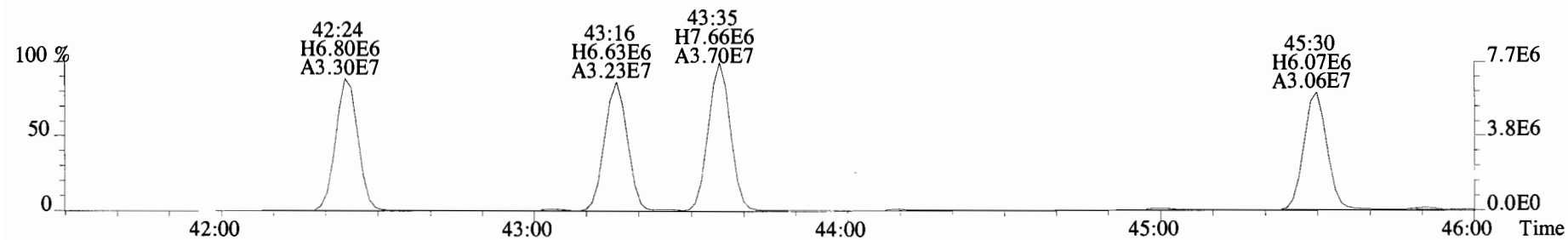
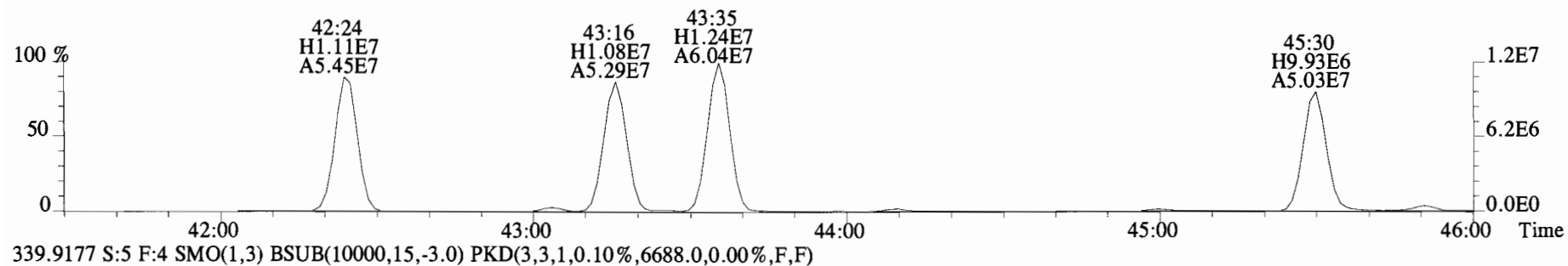
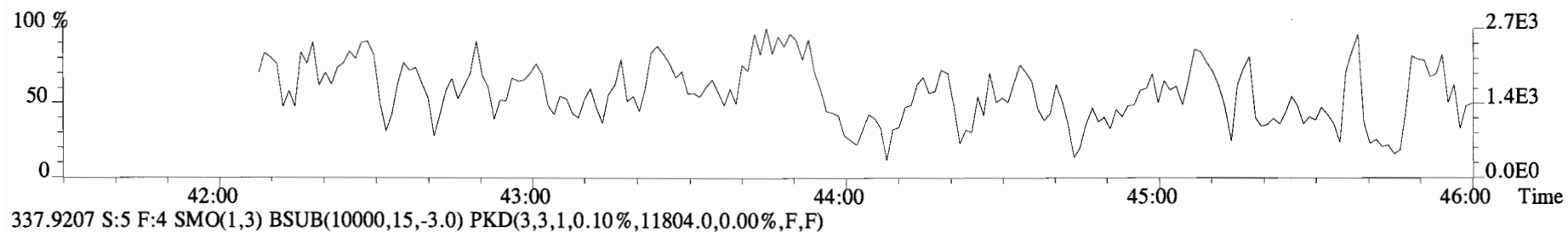
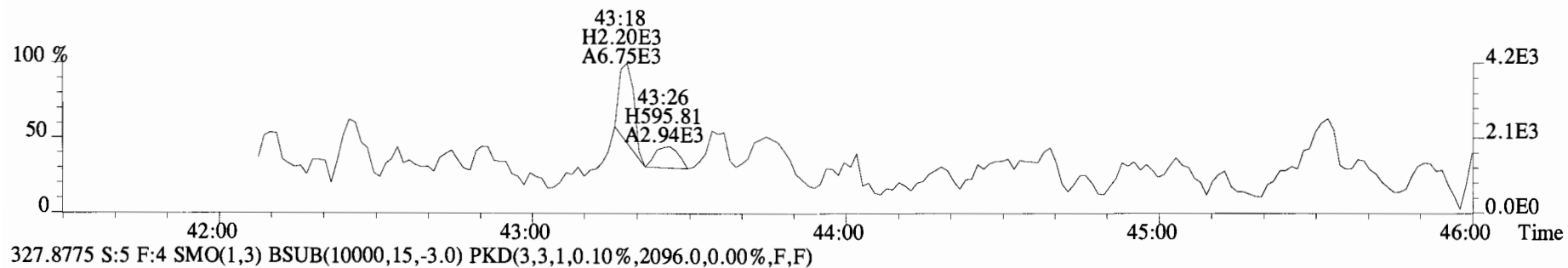
339.9177 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2340.0,0.00%,F,F)



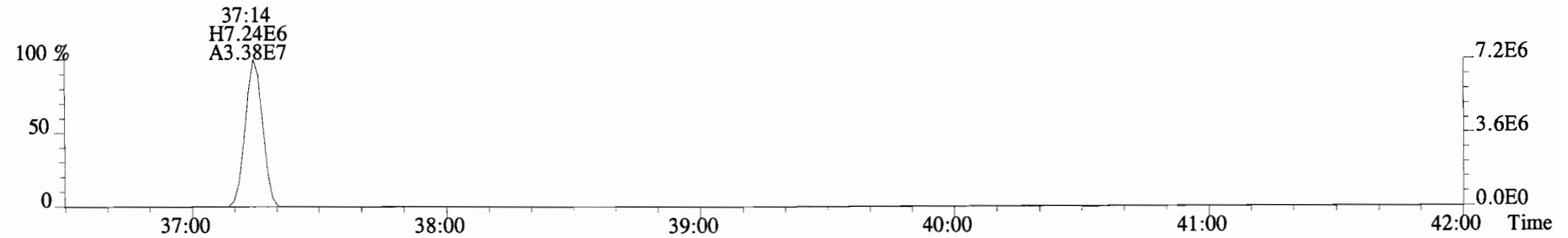
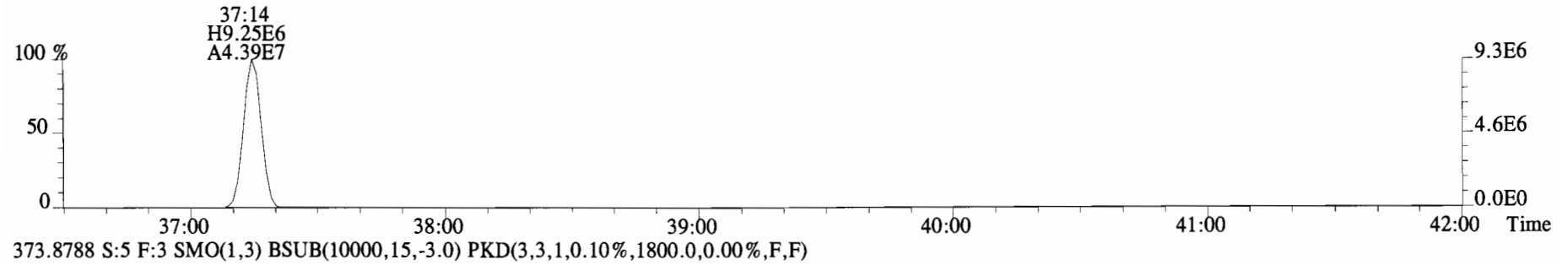
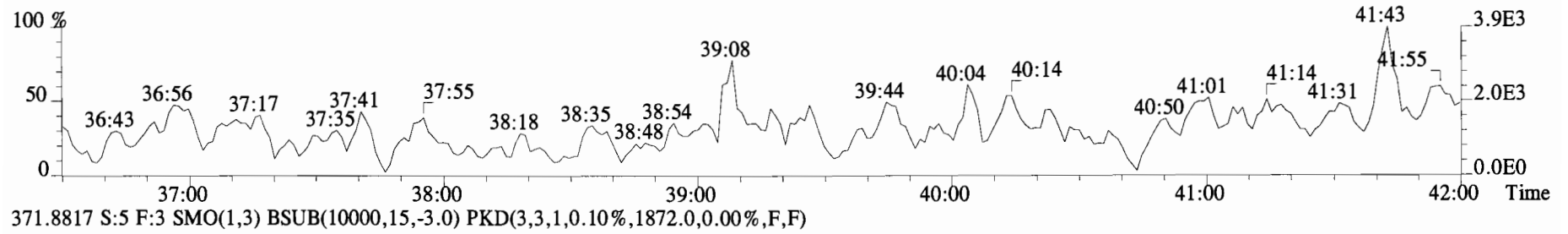
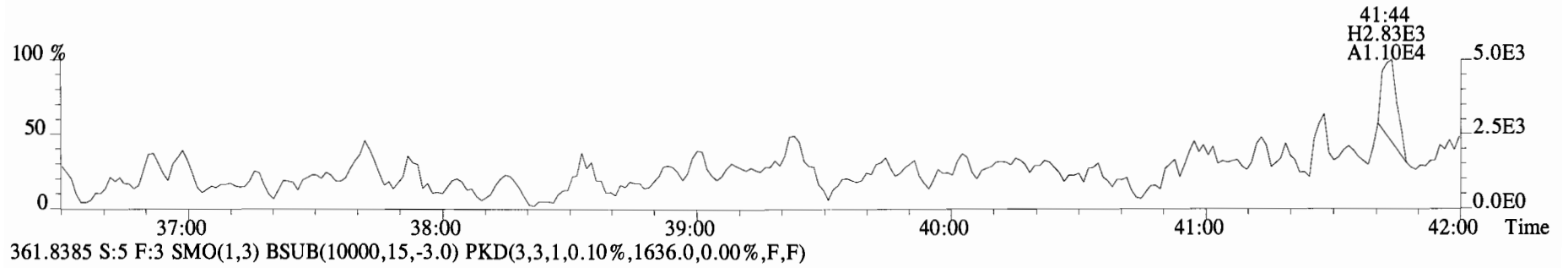
File:140919E1 #1-769 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2840.0,0.00%,F,F)



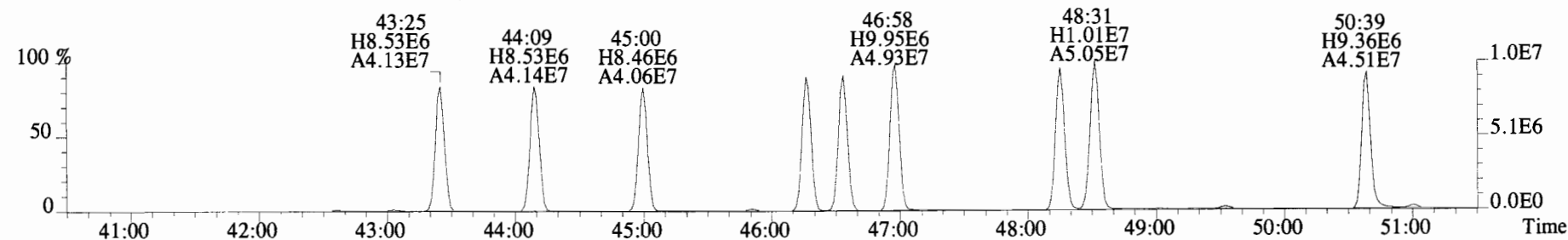
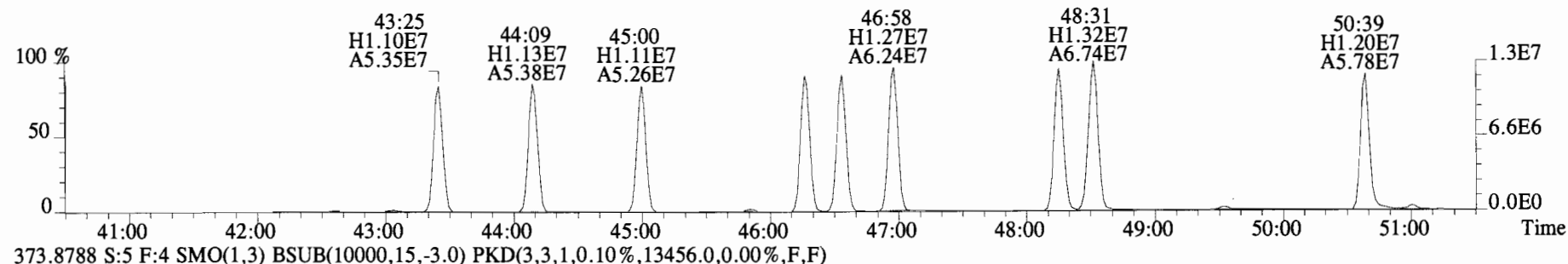
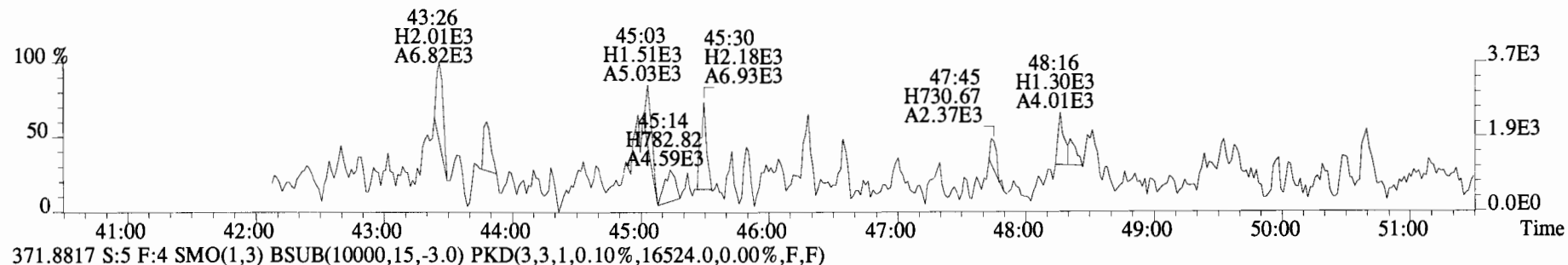
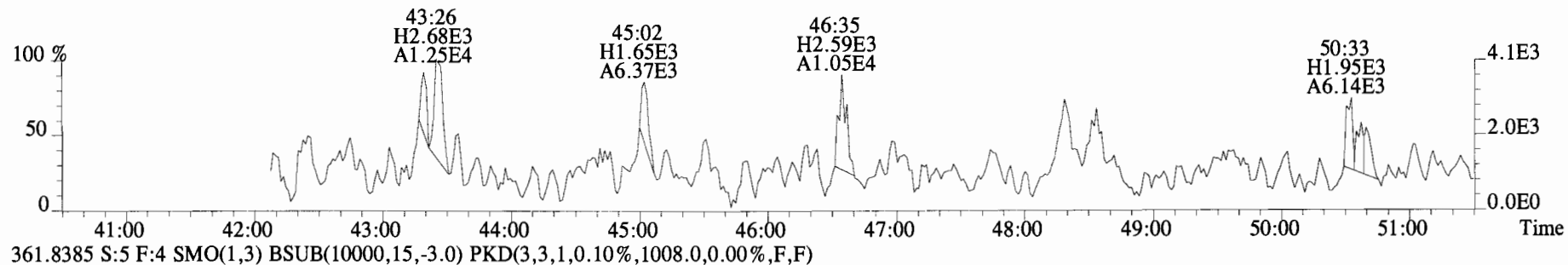
File:140919E1 #1-544 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1644.0,0.00%,F,F)



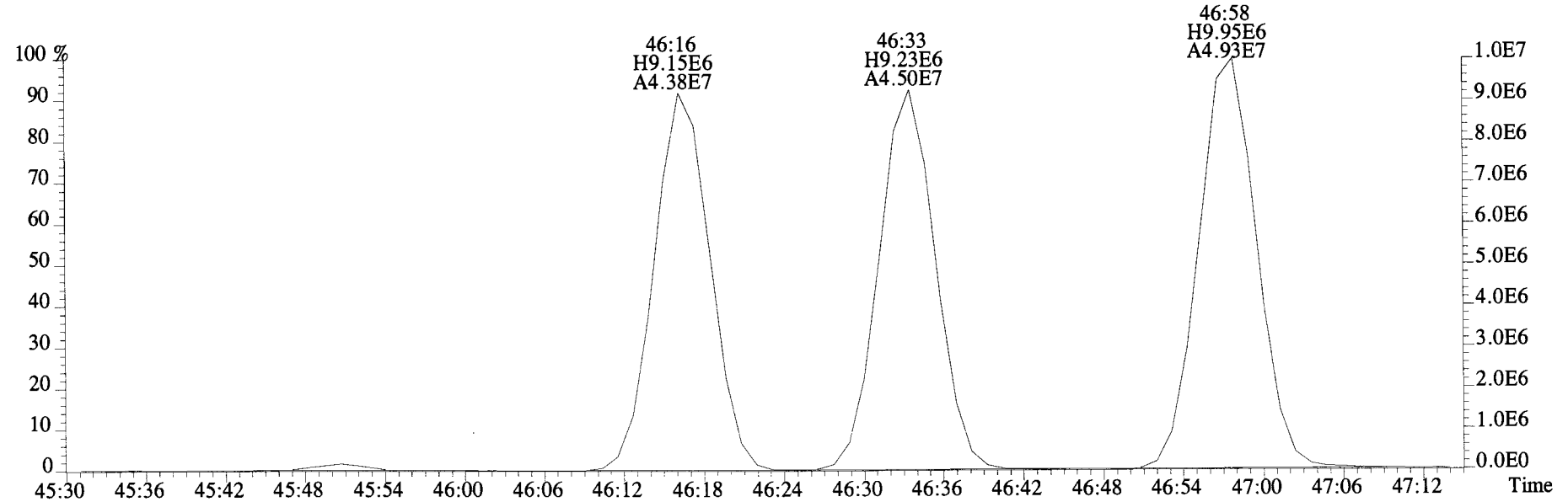
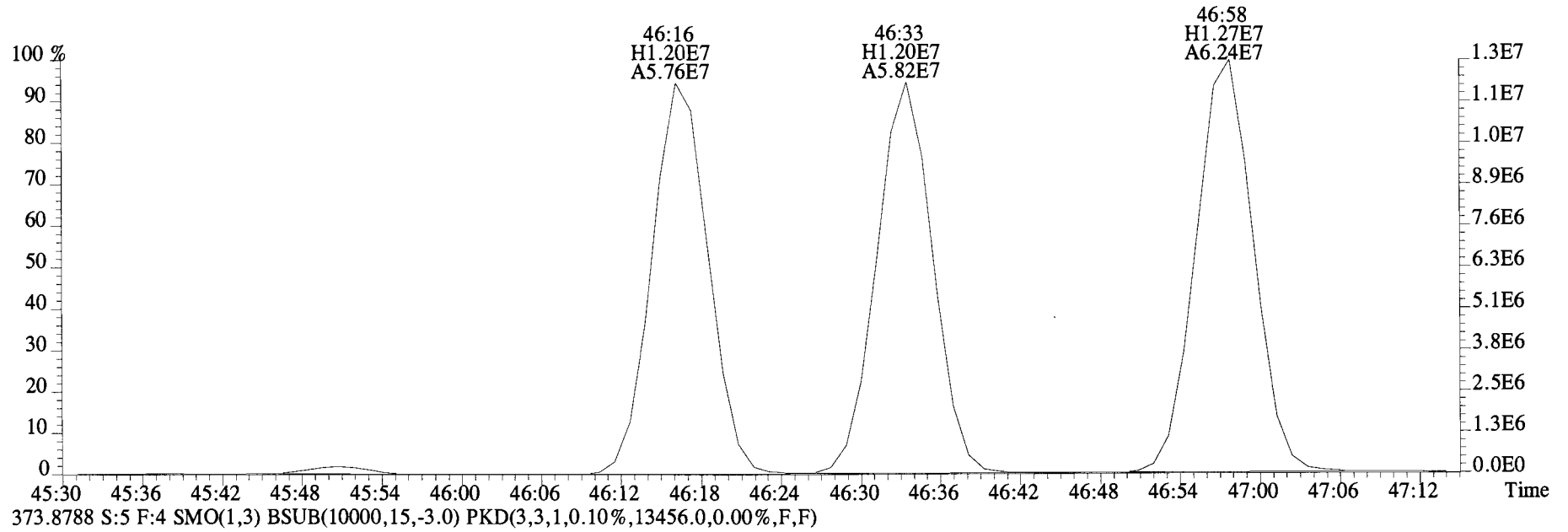
File:140919E1 #1-769 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1752.0,0.00%,F,F)



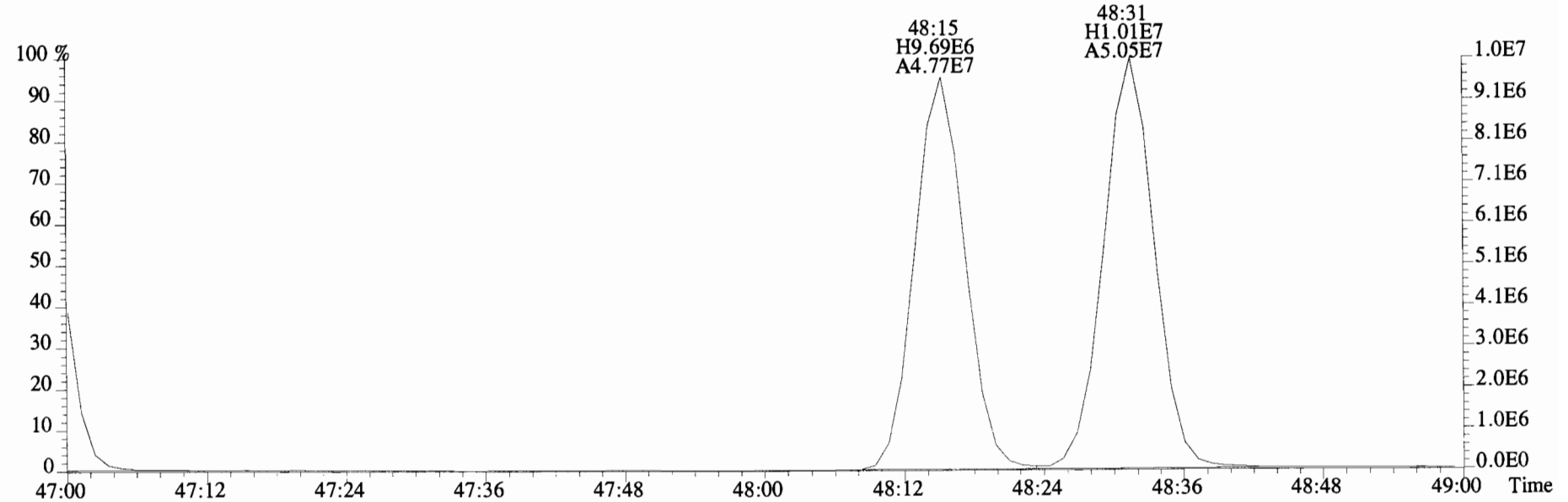
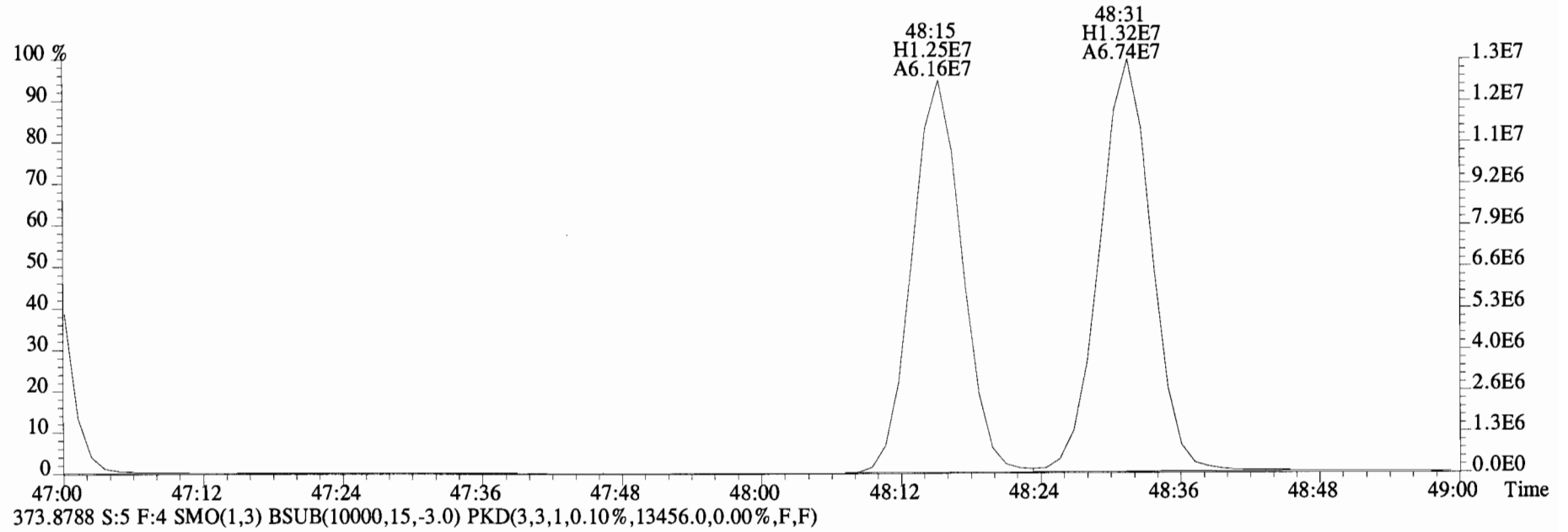
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1380.0,0.00%,F,F)



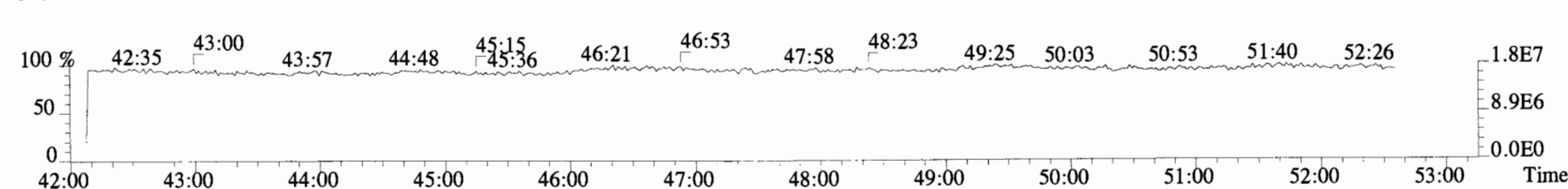
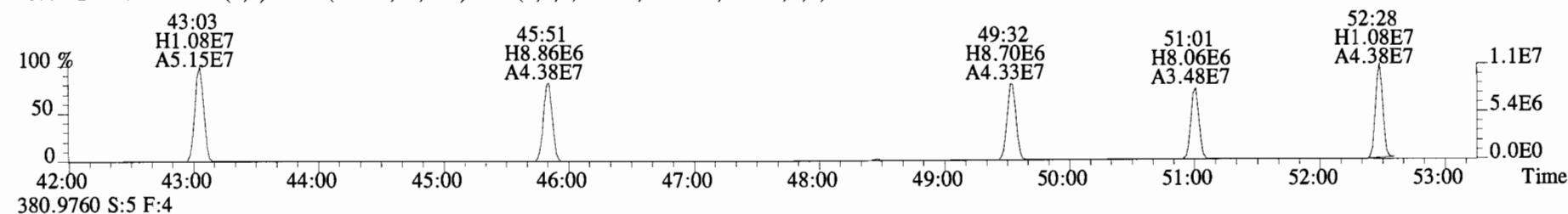
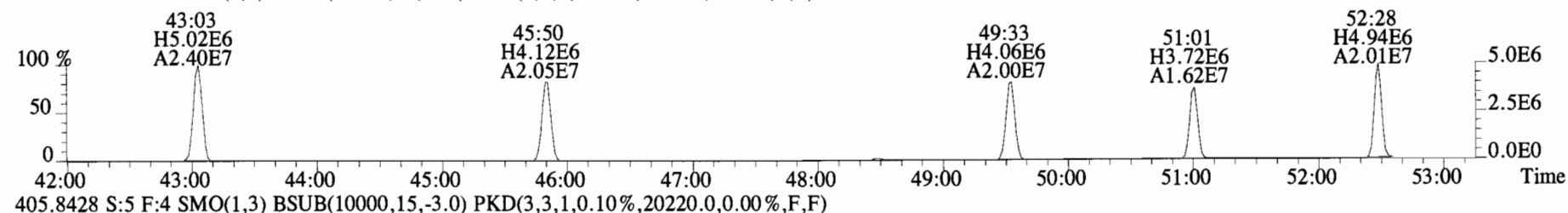
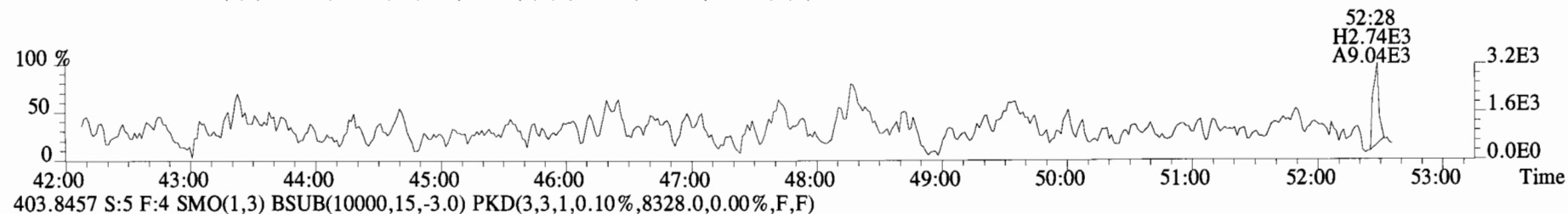
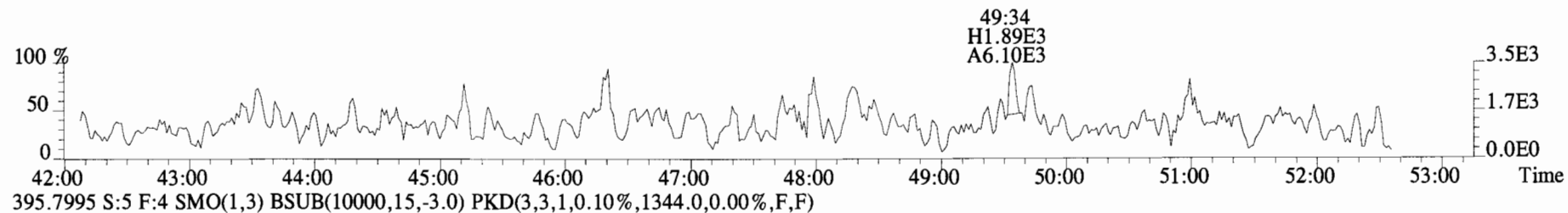
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Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
371.8817 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16524.0,0.00%,F,F)



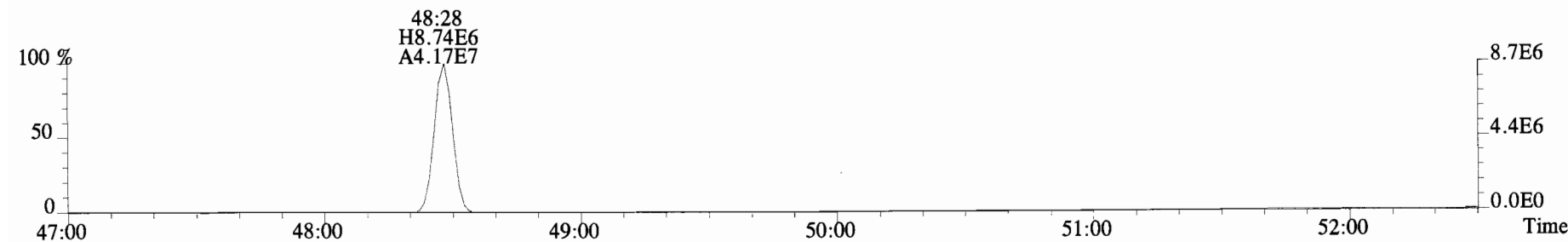
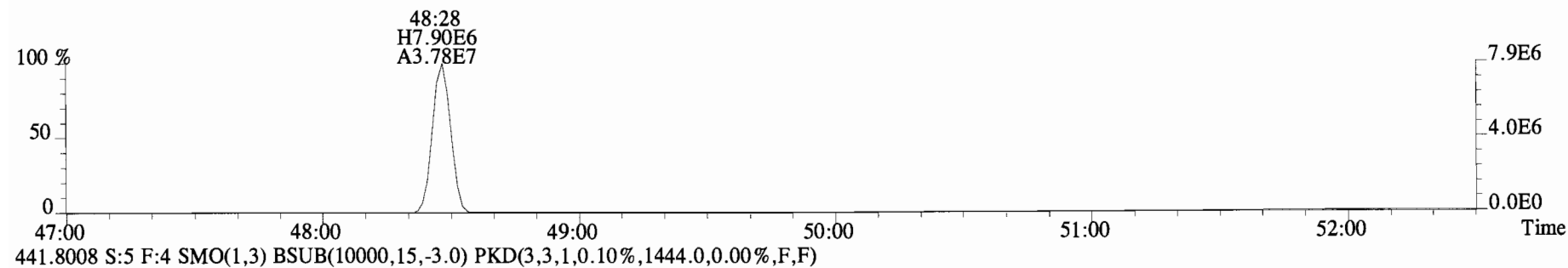
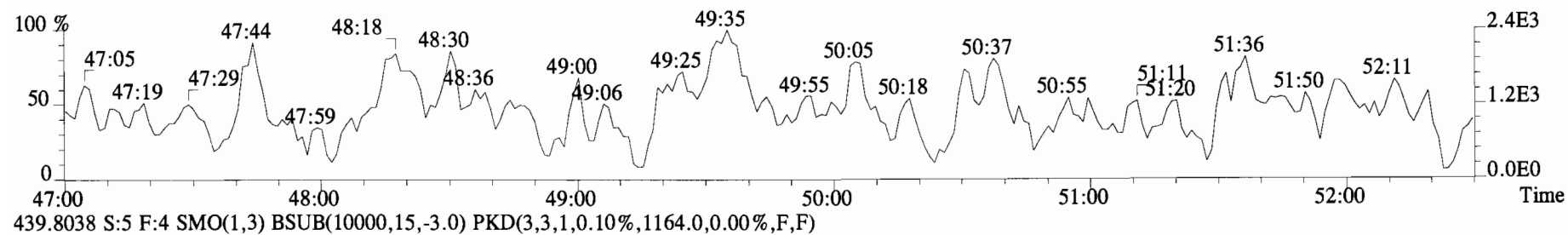
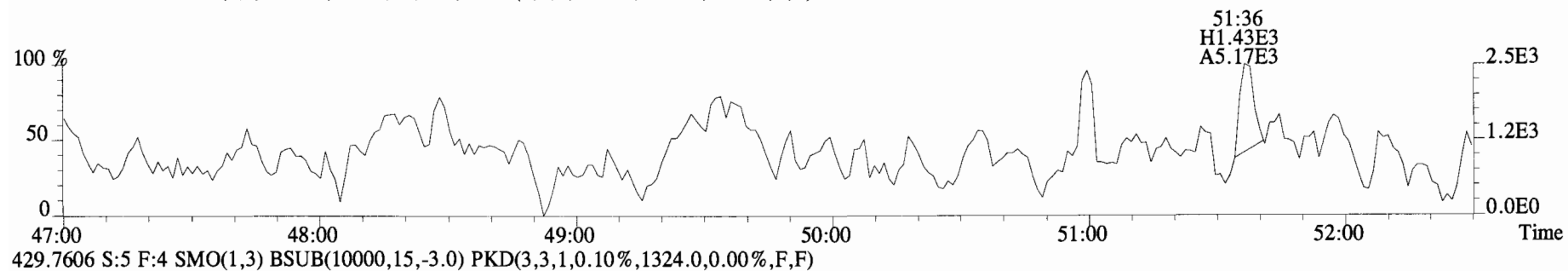
File:140919E1 #1-544 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
371.8817 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16524.0,0.00%,F,F)



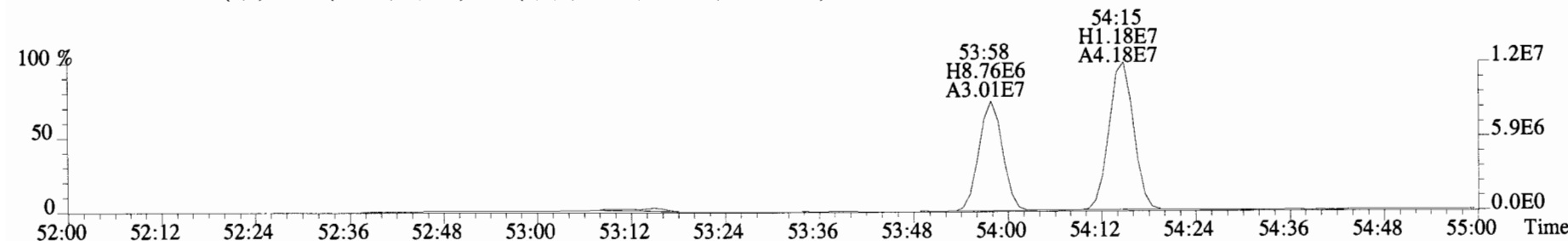
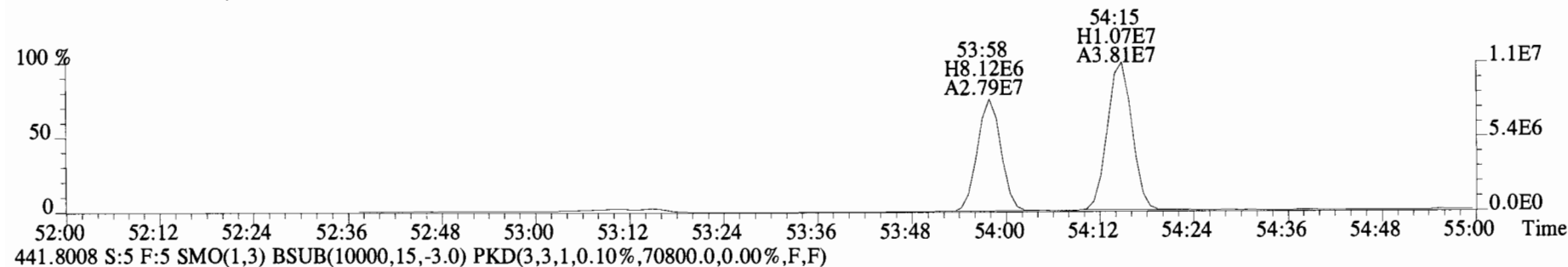
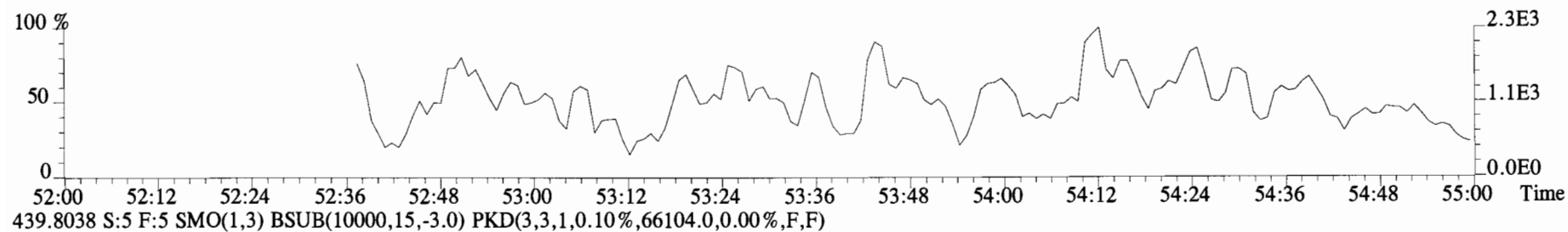
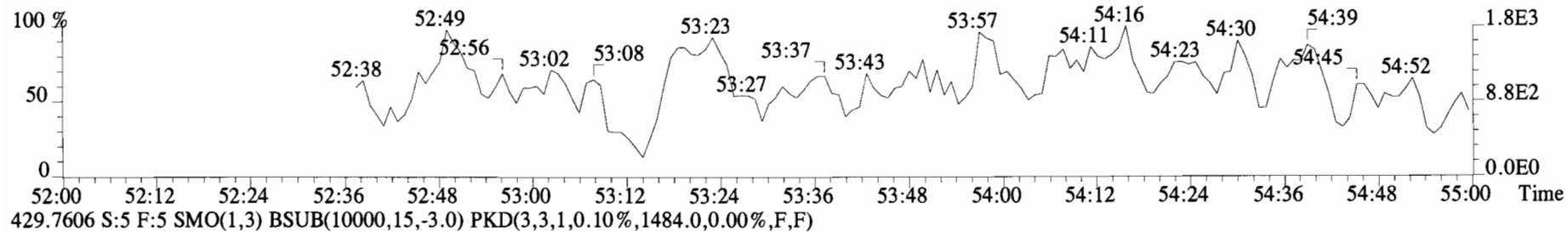
File:140919E1 #1-544 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
 393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1540.0,0.00%,F,F)



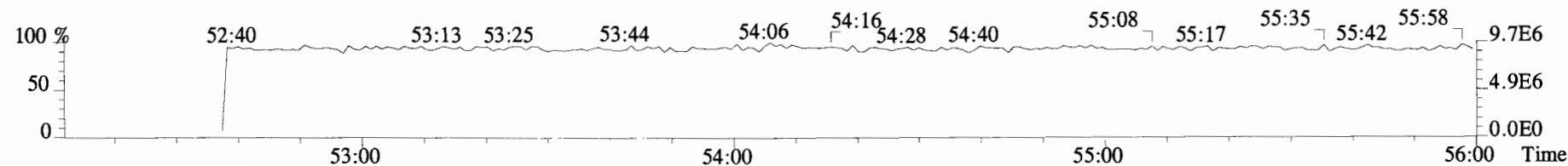
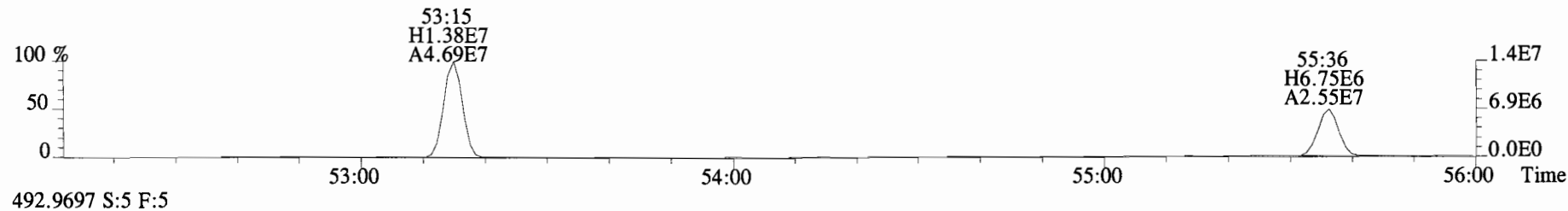
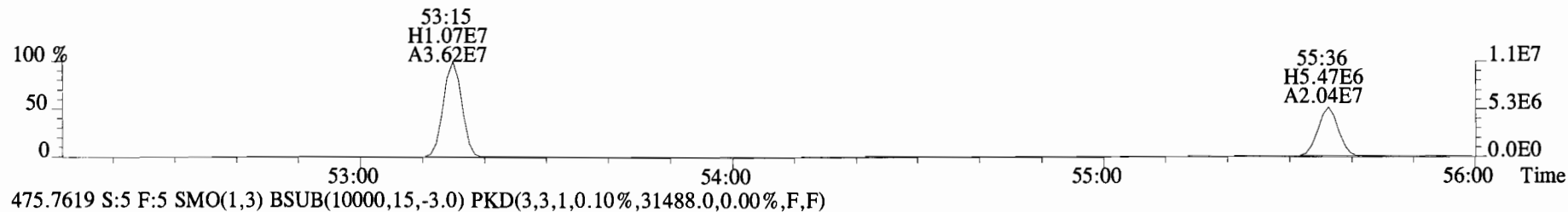
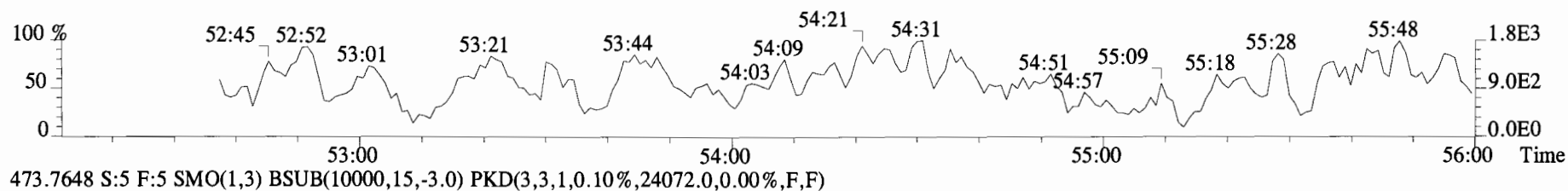
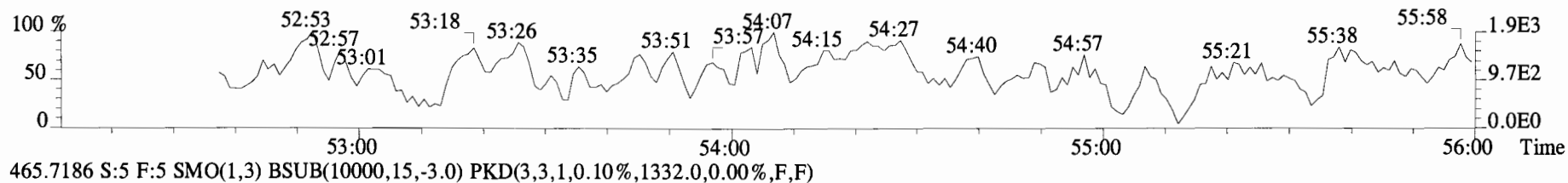
File:140919E1 #1-544 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
427.7635 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1232.0,0.00%,F,F)



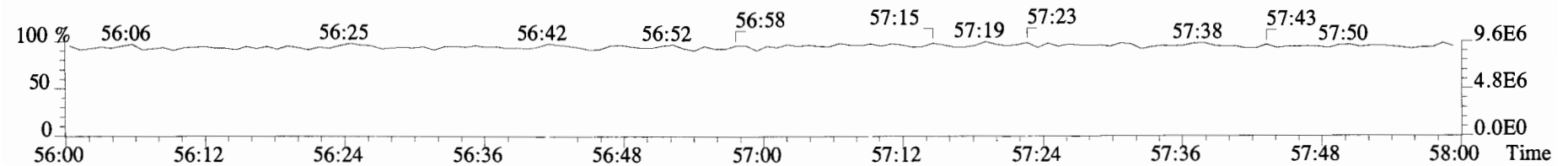
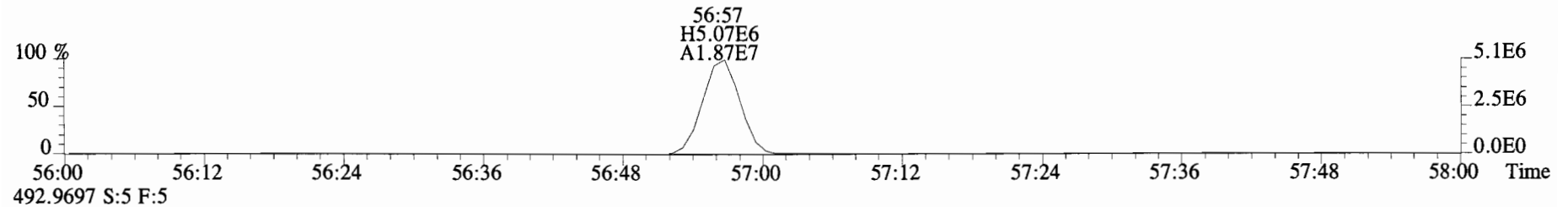
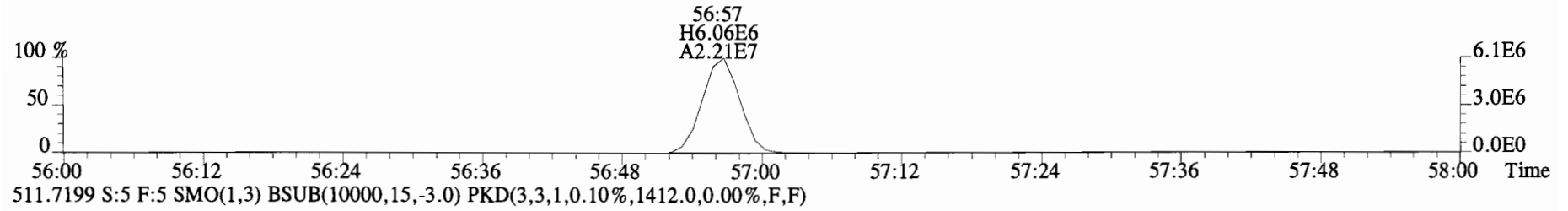
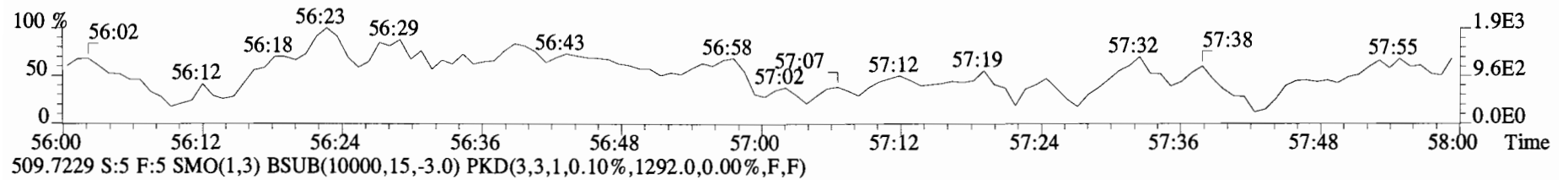
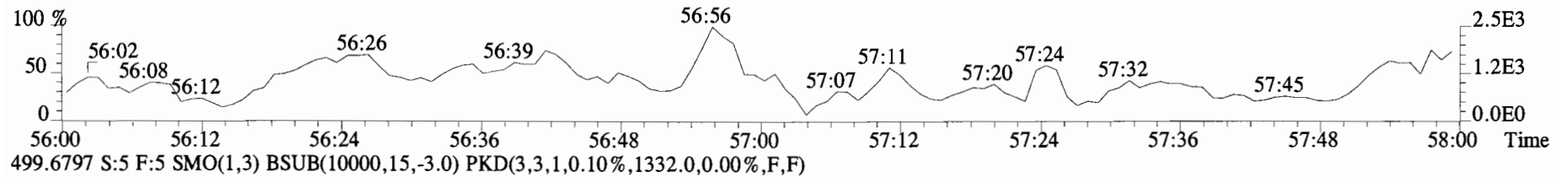
File:140919E1 #1-429 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B410047-BLK1 Method Blank 1 Exp:PCB_ZB1
429.7635 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1400.0,0.00%,F,F)



File:140919E1 #1-429 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
 463.7216 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1508.0,0.00%,F,F)



File:140919E1 #1-429 Acq:19-SEP-2014 13:50:37 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BLK1 Method Blank 1 Exp:PCB_ZB1
497.6826 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1268.0,0.00%,F,F)



Lab Name: Vista Analytical Laboratory OPR Data Filename: B4I0047-BS1

Matrix : AQUEOUS Ext. Date: 9-15-14 Analysis Date: 19-SEP-14 Time: 10:37:25

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

| NATIVE ANALYTES | SPIKE | CONC. | OPR CONC. | Labeled Compounds | SPIKE | CONC. | OPR CONC. | Clean Up Standard | SPIKE | CONC. | OPR CONC. |
|-----------------|---------|---------|-----------|-------------------|---------|---------|-----------|-------------------|---------|---------|-----------|
| | CONC. | FOUND | LIMITS | | CONC. | FOUND | LIMITS | | CONC. | FOUND | LIMITS |
| | (ng/mL) | (ng/mL) | (ng/mL) | | (ng/mL) | (ng/mL) | (ng/mL) | | (ng/mL) | (ng/mL) | (ng/mL) |
| PCB-1 | 50 | 52.3 | 30.0-67.5 | 13C-PCB-1 | 100 | 69.2 | 15-145 | 13C-PCB-79 | 100 | 102.7 | 40-145 |
| PCB-3 | 50 | 53.3 | 30.0-67.5 | 13C-PCB-3 | 100 | 68.8 | 15-145 | 13C-PCB-178 | 100 | 109.9 | 40-145 |
| PCB-4/10 | 200 | 215.5 | 120-270 | 13C-PCB-4 | 100 | 73.8 | 15-145 | | | | |
| PCB-15 | 100 | 104.3 | 60.0-135 | 13C-PCB-11 | 100 | 81.8 | 15-145 | | | | |
| PCB-19 | 50 | 58.6 | 30.0-67.5 | 13C-PCB-19 | 100 | 72.2 | 15-145 | | | | |
| PCB-37 | 50 | 40.5 | 30.0-67.5 | 13C-PCB-37 | 100 | 86.0 | 15-145 | | | | |
| PCB-54 | 50 | 46.4 | 30.0-67.5 | 13C-PCB-54 | 100 | 89.1 | 15-145 | | | | |
| PCB-81 | 50 | 47.1 | 30.0-67.5 | 13C-PCB-81 | 100 | 87.3 | 40-145 | | | | |
| PCB-77 | 50 | 48.5 | 30.0-67.5 | 13C-PCB-77 | 100 | 90.5 | 40-145 | | | | |
| PCB-104 | 50 | 53.4 | 30.0-67.5 | 13C-PCB-104 | 100 | 78.7 | 40-145 | | | | |
| PCB-123 | 50 | 52.3 | 30.0-67.5 | 13C-PCB-123 | 100 | 87.4 | 40-145 | | | | |
| PCB-106/118 | 100 | 105.0 | 60.0-135 | 13C-PCB-118 | 100 | 88.4 | 40-145 | | | | |
| PCB-114 | 50 | 51.0 | 30.0-67.5 | 13C-PCB-114 | 100 | 72.2 | 40-145 | | | | |
| PCB-105 | 50 | 50.6 | 30.0-67.5 | 13C-PCB-105 | 100 | 69.3 | 40-145 | | | | |
| PCB-126 | 50 | 50.5 | 30.0-67.5 | 13C-PCB-126 | 100 | 67.9 | 40-145 | | | | |
| PCB-155 | 50 | 54.2 | 30.0-67.5 | 13C-PCB-155 | 100 | 82.0 | 40-145 | | | | |
| PCB-167 | 50 | 50.0 | 30.0-67.5 | 13C-PCB-167 | 100 | 86.5 | 40-145 | | | | |
| PCB-156 | 50 | 51.5 | 30.0-67.5 | 13C-PCB-156 | 100 | 85.9 | 40-145 | | | | |
| PCB-157 | 50 | 51.3 | 30.0-67.5 | 13C-PCB-157 | 100 | 87.0 | 40-145 | | | | |
| PCB-169 | 50 | 52.0 | 30.0-67.5 | 13C-PCB-169 | 100 | 85.7 | 40-145 | | | | |
| PCB-188 | 50 | 53.5 | 30.0-67.5 | 13C-PCB-188 | 100 | 82.1 | 40-145 | | | | |
| PCB-189 | 50 | 52.9 | 30.0-67.5 | 13C-PCB-189 | 100 | 87.5 | 40-145 | | | | |
| PCB-202 | 50 | 51.1 | 30.0-67.5 | 13C-PCB-202 | 100 | 97.9 | 40-145 | | | | |
| PCB-205 | 50 | 50.6 | 30.0-67.5 | 13C-PCB-194 | 100 | 98.4 | 40-145 | | | | |
| PCB-208 | 50 | 52.4 | 30.0-67.5 | 13C-PCB-208 | 100 | 97.3 | 40-145 | | | | |
| PCB-206 | 50 | 51.6 | 30.0-67.5 | 13C-PCB-206 | 100 | 95.4 | 40-145 | | | | |
| PCB-209 | 50 | 52.8 | 30.0-67.5 | 13C-PCB-209 | 100 | 92.4 | 40-145 | | | | |

Analyst: DmsDate: 9/23/14

Client ID: OPR
Lab ID: B4I0047-BS1

Filename: 140919E1 S:2 Acq:19-SEP-14 10:37:25 ConCal: ST140919E1-1
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 | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc |
|--------------|----------|------|-----|------|-------|-------|-------------|---------|-----------------|----------|------|-----|------|-------|-------|-------------|---------|
| PCB-1 | 6.19e+07 | 2.95 | y | 1.25 | 16:20 | 1.001 | 0.996-1.006 | 52.3027 | PCB-52/69 | 8.19e+07 | 0.80 | y | 1.28 | 31:44 | 1.001 | 0.996-1.006 | 87.0620 |
| PCB-2 | 6.72e+07 | 3.02 | y | 1.18 | 18:43 | 0.989 | 0.983-0.993 | 58.1880 | PCB-73 | 4.93e+07 | 0.80 | y | 1.37 | 31:51 | 1.005 | 1.000-1.010 | 48.8308 |
| PCB-3 | 6.35e+07 | 3.00 | y | 1.22 | 18:57 | 1.001 | 0.996-1.006 | 53.2798 | PCB-43/49 | 7.80e+07 | 0.79 | y | 1.11 | 32:01 | 1.010 | 1.005-1.015 | 95.2395 |
| PCB-4/10 | 2.07e+08 | 1.64 | y | 1.55 | 20:19 | 1.002 | 0.998-1.008 | 215.497 | PCB-47 | 3.76e+07 | 0.80 | y | 1.13 | 32:14 | 1.001 | 0.996-1.006 | 43.3782 |
| PCB-7/9 | 2.53e+08 | 1.63 | y | 1.27 | 22:06 | 0.869 | 0.865-0.873 | 213.263 | PCB-48/75 | 9.15e+07 | 0.81 | y | 1.30 | 32:21 | 1.004 | 0.999-1.009 | 91.7202 |
| PCB-6 | 1.28e+08 | 1.64 | y | 1.26 | 22:45 | 0.894 | 0.890-0.899 | 108.566 | PCB-65 | 5.09e+07 | 0.78 | y | 1.33 | 32:37 | 1.012 | 1.007-1.017 | 49.9041 |
| PCB-5/8 | 2.62e+08 | 1.64 | y | 1.23 | 23:10 | 0.911 | 0.906-0.916 | 226.961 | PCB-62 | 4.61e+07 | 0.80 | y | 1.29 | 32:43 | 1.016 | 1.011-1.021 | 46.6700 |
| PCB-14 | 1.45e+08 | 1.66 | y | 1.23 | 24:15 | 0.953 | 0.949-0.959 | 100.426 | PCB-44 | 3.59e+07 | 0.80 | y | 0.94 | 33:02 | 1.025 | 1.020-1.030 | 49.9568 |
| PCB-11 | 1.45e+08 | 1.68 | y | 1.16 | 25:27 | 1.001 | 0.996-1.006 | 106.797 | PCB-42/59 | 9.02e+07 | 0.80 | y | 1.22 | 33:15 | 1.032 | 1.028-1.038 | 96.9976 |
| PCB-12/13 | 2.76e+08 | 1.65 | y | 1.10 | 25:51 | 1.016 | 1.010-1.020 | 214.074 | PCB-41/64/71/72 | 1.99e+08 | 0.80 | y | 1.31 | 33:50 | 1.050 | 1.046-1.056 | 198.271 |
| PCB-15 | 1.48e+08 | 1.66 | y | 1.21 | 26:10 | 1.029 | 1.024-1.034 | 104.319 | PCB-68 | 5.43e+07 | 0.79 | y | 1.49 | 34:05 | 1.058 | 1.054-1.064 | 47.8428 |
| PCB-19 | 4.47e+07 | 1.08 | y | 1.30 | 24:27 | 1.001 | 0.996-1.006 | 58.5924 | PCB-40 | 3.08e+07 | 0.80 | y | 0.82 | 34:19 | 1.065 | 1.061-1.071 | 49.2334 |
| PCB-30 | 6.37e+07 | 1.10 | y | 1.83 | 25:20 | 1.038 | 1.032-1.042 | 59.0876 | PCB-57 | 5.11e+07 | 0.80 | y | 1.11 | 34:40 | 0.971 | 0.965-0.975 | 46.3438 |
| PCB-18 | 4.94e+07 | 1.09 | y | 0.86 | 26:05 | 0.954 | 0.949-0.959 | 59.4388 | PCB-67 | 5.32e+07 | 0.79 | y | 1.07 | 34:58 | 0.979 | 0.974-0.984 | 50.0149 |
| PCB-17 | 5.11e+07 | 1.10 | y | 0.90 | 26:16 | 0.961 | 0.955-0.965 | 58.7672 | PCB-58 | 4.83e+07 | 0.81 | y | 1.10 | 35:06 | 0.983 | 0.977-0.987 | 44.2360 |
| PCB-24/27 | 1.41e+08 | 1.09 | y | 1.18 | 26:50 | 0.982 | 0.976-0.986 | 123.638 | PCB-63 | 5.06e+07 | 0.81 | y | 1.12 | 35:15 | 0.987 | 0.982-0.992 | 45.7099 |
| PCB-16/32 | 1.20e+08 | 1.09 | y | 1.03 | 27:20 | 1.000 | 0.995-1.005 | 120.807 | PCB-74 | 5.53e+07 | 0.81 | y | 1.20 | 35:32 | 0.995 | 0.990-1.000 | 46.3599 |
| PCB-34 | 4.53e+07 | 0.95 | y | 1.26 | 28:09 | 0.961 | 0.956-0.966 | 49.9262 | PCB-61/70 | 9.64e+07 | 0.80 | y | 1.08 | 35:42 | 1.000 | 0.994-1.004 | 90.1245 |
| PCB-23 | 3.58e+07 | 0.97 | y | 1.31 | 28:14 | 0.964 | 0.959-0.969 | 37.9239 | PCB-76/66 | 1.12e+08 | 0.81 | y | 1.14 | 35:56 | 1.006 | 1.001-1.011 | 99.7892 |
| PCB-29 | 4.15e+07 | 0.99 | y | 1.33 | 28:28 | 0.972 | 0.967-0.977 | 43.3498 | PCB-80 | 6.31e+07 | 0.81 | y | 1.28 | 36:09 | 1.000 | 0.996-1.006 | 45.6549 |
| PCB-26 | 3.85e+07 | 0.97 | y | 1.29 | 28:42 | 0.980 | 0.974-0.984 | 41.3539 | PCB-55 | 5.87e+07 | 0.79 | y | 1.11 | 36:29 | 1.010 | 1.005-1.015 | 48.8886 |
| PCB-25 | 3.85e+07 | 0.97 | y | 1.34 | 28:51 | 0.985 | 0.980-0.990 | 39.8236 | PCB-56/60 | 1.01e+08 | 0.80 | y | 1.09 | 36:58 | 1.023 | 1.018-1.028 | 86.3246 |
| PCB-31 | 3.78e+07 | 0.94 | y | 1.42 | 29:12 | 0.997 | 0.992-1.002 | 36.9634 | PCB-79 | 5.44e+07 | 0.81 | y | 1.12 | 38:02 | 1.053 | 1.048-1.058 | 44.7498 |
| PCB-28 | 4.22e+07 | 0.96 | y | 1.38 | 29:19 | 1.001 | 0.996-1.006 | 42.5158 | PCB-78 | 5.46e+07 | 0.82 | y | 1.24 | 38:44 | 0.987 | 0.982-0.992 | 48.9384 |
| PCB-20/21/33 | 1.15e+08 | 0.96 | y | 1.31 | 29:55 | 1.021 | 1.017-1.027 | 121.714 | PCB-81 | 5.86e+07 | 0.80 | y | 1.38 | 39:16 | 1.000 | 0.995-1.005 | 47.0957 |
| PCB-22 | 4.04e+07 | 0.96 | y | 1.32 | 30:22 | 1.036 | 1.032-1.042 | 42.4961 | PCB-77 | 5.83e+07 | 0.85 | y | 1.21 | 39:51 | 1.000 | 0.995-1.005 | 48.4582 |
| PCB-36 | 3.78e+07 | 0.95 | y | 1.38 | 30:58 | 0.934 | 0.929-0.939 | 39.3759 | PCB-104 | 5.17e+07 | 1.61 | y | 1.26 | 32:53 | 1.001 | 0.996-1.006 | 53.4359 |
| PCB-39 | 3.75e+07 | 0.95 | y | 1.42 | 31:26 | 0.948 | 0.943-0.953 | 37.8753 | PCB-96 | 4.83e+07 | 1.62 | y | 1.09 | 34:09 | 1.039 | 1.034-1.044 | 57.5162 |
| PCB-38 | 3.80e+07 | 0.97 | y | 1.35 | 32:13 | 0.971 | 0.967-0.976 | 40.1741 | PCB-103 | 4.03e+07 | 1.63 | y | 0.93 | 34:41 | 1.055 | 1.050-1.060 | 56.1265 |
| PCB-35 | 4.00e+07 | 0.99 | y | 1.38 | 32:45 | 0.987 | 0.982-0.992 | 41.6374 | PCB-100 | 4.25e+07 | 1.63 | y | 1.00 | 35:01 | 1.065 | 1.061-1.071 | 55.1384 |
| PCB-37 | 3.94e+07 | 0.97 | y | 1.39 | 33:11 | 1.001 | 0.996-1.006 | 40.5221 | PCB-94 | 3.69e+07 | 1.62 | y | 1.11 | 35:30 | 0.986 | 0.981-0.991 | 53.1505 |
| PCB-54 | 5.17e+07 | 0.79 | y | 1.20 | 28:12 | 1.001 | 0.996-1.006 | 46.3647 | PCB-95/98/102 | 1.19e+08 | 1.64 | y | 1.21 | 35:59 | 0.999 | 0.994-1.004 | 156.733 |
| PCB-50 | 3.89e+07 | 0.82 | y | 0.97 | 29:21 | 1.041 | 1.037-1.047 | 43.2387 | PCB-93 | 3.97e+07 | 1.61 | y | 1.13 | 36:07 | 1.003 | 0.998-1.008 | 56.0169 |
| PCB-53 | 3.99e+07 | 0.81 | y | 1.19 | 30:00 | 0.946 | 0.941-0.951 | 45.6744 | PCB-88/91 | 7.69e+07 | 1.61 | y | 1.02 | 36:24 | 1.011 | 1.006-1.016 | 120.374 |
| PCB-51 | 4.08e+07 | 0.79 | y | 1.15 | 30:20 | 0.957 | 0.952-0.962 | 48.1142 | PCB-121 | 5.28e+07 | 1.65 | y | 1.90 | 36:31 | 1.014 | 1.009-1.019 | 44.2465 |
| PCB-45 | 3.44e+07 | 0.80 | y | 0.97 | 30:47 | 0.971 | 0.966-0.976 | 48.4457 | PCB-84/92 | 7.55e+07 | 1.63 | y | 1.05 | 37:20 | 0.990 | 0.986-0.996 | 107.746 |
| PCB-46 | 3.33e+07 | 0.79 | y | 0.95 | 31:16 | 0.986 | 0.982-0.992 | 47.6048 | PCB-89 | 3.82e+07 | 1.62 | y | 1.02 | 37:31 | 0.995 | 0.991-1.001 | 56.2870 |

RL: MONO, TRI - DECA: _____

RL: DI : _____

Integrations

by

Analyst: *Dms*

Date: *9/23/14*

Reviewed

by

Analyst: *[Signature]*

Date: *9/24/14*

Client ID: OPR
Lab ID: B4I0047-BS1

Filename: 140919E1 S:2 Acq:19-SEP-14 10:37:25
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 | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc |
|---------------|----------|------|-----|------|-------|-------|-------------|---------|-----------------|----------|------|-----|------|-------|-------|-------------|---------|
| PCB-90/101 | 8.29e+07 | 1.63 | y | 1.19 | 37:43 | 1.000 | 0.996-1.006 | 104.488 | PCB-133/142 | 7.39e+07 | 1.28 | y | 0.95 | 42:38 | 0.982 | 0.977-0.987 | 99.9438 |
| PCB-113 | 5.20e+07 | 1.61 | y | 1.35 | 37:57 | 1.007 | 1.002-1.012 | 57.6908 | PCB-131 | 3.46e+07 | 1.28 | y | 0.91 | 42:48 | 0.986 | 0.981-0.991 | 48.3378 |
| PCB-99 | 4.10e+07 | 1.66 | y | 1.29 | 38:03 | 1.009 | 1.005-1.015 | 47.6784 | PCB-146/165 | 9.08e+07 | 1.27 | y | 1.16 | 43:00 | 0.990 | 0.986-0.996 | 100.385 |
| PCB-119 | 5.31e+07 | 1.60 | y | 1.72 | 38:30 | 0.987 | 0.982-0.992 | 51.3106 | PCB-132/161 | 8.70e+07 | 1.27 | y | 1.11 | 43:15 | 0.996 | 0.992-1.002 | 99.8495 |
| PCB-108/112 | 8.36e+07 | 1.62 | y | 1.29 | 38:39 | 0.991 | 0.986-0.996 | 108.031 | PCB-153 | 4.68e+07 | 1.26 | y | 1.18 | 43:26 | 1.000 | 0.995-1.005 | 50.7274 |
| PCB-83 | 4.93e+07 | 1.65 | y | 1.52 | 38:50 | 0.996 | 0.991-1.001 | 53.9908 | PCB-168 | 5.27e+07 | 1.26 | y | 1.37 | 43:39 | 1.005 | 1.000-1.010 | 49.1601 |
| PCB-97 | 4.04e+07 | 1.65 | y | 1.25 | 39:01 | 1.000 | 0.996-1.006 | 53.8620 | PCB-141 | 3.82e+07 | 1.28 | y | 0.97 | 44:10 | 1.000 | 0.996-1.005 | 50.3891 |
| PCB-86 | 3.00e+07 | 1.58 | y | 1.02 | 39:10 | 1.004 | 1.000-1.010 | 48.9068 | PCB-137 | 4.14e+07 | 1.25 | y | 1.07 | 44:33 | 1.009 | 1.004-1.014 | 49.6906 |
| B-87/117/125 | 1.48e+08 | 1.62 | y | 1.56 | 39:17 | 1.007 | 1.002-1.012 | 157.748 | PCB-130 | 3.88e+07 | 1.28 | y | 0.85 | 44:39 | 1.011 | 1.007-1.017 | 58.8281 |
| PCB-111/115 | 1.10e+08 | 1.62 | y | 1.75 | 39:27 | 1.012 | 1.007-1.017 | 104.894 | PCB-138/163/164 | 1.41e+08 | 1.28 | y | 1.23 | 45:02 | 1.001 | 0.996-1.006 | 153.699 |
| PCB-85/116 | 8.04e+07 | 1.61 | y | 1.30 | 39:35 | 1.015 | 1.010-1.020 | 102.801 | PCB-158/160 | 9.80e+07 | 1.27 | y | 1.29 | 45:17 | 1.007 | 1.001-1.011 | 101.317 |
| PCB-120 | 5.43e+07 | 1.61 | y | 1.78 | 39:49 | 1.021 | 1.016-1.026 | 50.6900 | PCB-129 | 3.48e+07 | 1.26 | y | 0.92 | 45:31 | 1.012 | 1.007-1.017 | 50.2351 |
| PCB-110 | 5.55e+07 | 1.63 | y | 1.68 | 39:58 | 1.025 | 1.020-1.030 | 54.9896 | PCB-166 | 4.75e+07 | 1.27 | y | 1.12 | 45:58 | 0.993 | 0.988-0.998 | 51.5408 |
| PCB-82 | 3.29e+07 | 1.62 | y | 0.74 | 40:35 | 0.977 | 0.972-0.982 | 54.7354 | PCB-159 | 4.80e+07 | 1.27 | y | 1.16 | 46:17 | 1.000 | 0.995-1.005 | 49.9350 |
| PCB-124 | 5.57e+07 | 1.61 | y | 1.32 | 41:15 | 0.993 | 0.988-0.998 | 51.7261 | PCB-128/162 | 9.06e+07 | 1.27 | y | 1.02 | 46:34 | 1.006 | 1.002-1.012 | 107.646 |
| PCB-107/109 | 1.13e+08 | 1.62 | y | 1.22 | 41:24 | 0.996 | 0.991-1.001 | 113.966 | PCB-167 | 4.99e+07 | 1.29 | y | 1.06 | 46:59 | 1.001 | 0.995-1.005 | 50.0422 |
| PCB-123 | 5.19e+07 | 1.60 | y | 1.22 | 41:34 | 1.000 | 0.995-1.005 | 52.3385 | PCB-156 | 5.35e+07 | 1.26 | y | 1.18 | 48:16 | 1.000 | 0.995-1.005 | 51.4667 |
| - PCB-106/118 | 1.10e+08 | 1.62 | y | 1.22 | 41:47 | 1.001 | 0.996-1.006 | 105.045 | PCB-157 | 5.21e+07 | 1.30 | y | 1.08 | 48:32 | 1.000 | 0.995-1.005 | 51.3067 |
| - PCB-114 | 4.95e+07 | 1.60 | y | 1.36 | 42:25 | 1.000 | 0.995-1.005 | 50.9803 | PCB-169 | 4.93e+07 | 1.32 | y | 1.11 | 50:39 | 1.000 | 0.995-1.005 | 52.0110 |
| PCB-122 | 4.54e+07 | 1.64 | y | 1.24 | 42:33 | 1.004 | 0.999-1.009 | 51.2427 | PCB-188 | 4.75e+07 | 1.07 | y | 1.40 | 43:04 | 1.000 | 0.995-1.005 | 53.5472 |
| PCB-105 | 4.57e+07 | 1.61 | y | 1.28 | 43:17 | 1.001 | 0.995-1.005 | 50.5938 | PCB-184 | 4.37e+07 | 1.05 | y | 1.24 | 43:31 | 1.011 | 1.006-1.016 | 55.9756 |
| PCB-127 | 4.51e+07 | 1.61 | y | 1.14 | 43:36 | 1.000 | 0.995-1.005 | 49.8350 | PCB-179 | 4.76e+07 | 1.08 | y | 1.30 | 44:18 | 1.029 | 1.024-1.034 | 57.7956 |
| PCB-126 | 4.20e+07 | 1.65 | y | 1.28 | 45:31 | 1.000 | 0.995-1.005 | 50.5071 | PCB-176 | 4.99e+07 | 1.08 | y | 1.36 | 44:46 | 1.040 | 1.035-1.045 | 58.0028 |
| PCB-155 | 4.12e+07 | 1.30 | y | 1.14 | 37:16 | 1.001 | 0.966-1.006 | 54.1922 | PCB-186 | 4.61e+07 | 1.05 | y | 1.28 | 45:22 | 1.054 | 1.049-1.059 | 57.2582 |
| PCB-150 | 4.14e+07 | 1.26 | y | 1.06 | 38:31 | 1.034 | 1.030-1.040 | 58.0336 | PCB-178 | 3.47e+07 | 1.05 | y | 0.94 | 45:51 | 1.065 | 1.061-1.071 | 58.6415 |
| PCB-152 | 4.25e+07 | 1.28 | y | 1.10 | 39:01 | 1.048 | 1.043-1.053 | 57.6582 | PCB-175 | 3.61e+07 | 1.07 | y | 0.97 | 46:12 | 1.073 | 1.069-1.079 | 59.0839 |
| PCB-145 | 4.10e+07 | 1.28 | y | 1.09 | 39:27 | 1.060 | 1.055-1.065 | 56.0268 | PCB-182/187 | 7.67e+07 | 1.07 | y | 1.01 | 46:23 | 1.077 | 1.073-1.083 | 119.707 |
| PCB-136 | 4.32e+07 | 1.27 | y | 1.08 | 39:46 | 1.068 | 1.064-1.074 | 59.4469 | PCB-183 | 4.02e+07 | 1.07 | y | 1.08 | 46:41 | 1.084 | 1.080-1.090 | 58.7899 |
| PCB-148 | 3.07e+07 | 1.30 | y | 0.74 | 39:52 | 1.071 | 1.066-1.076 | 61.9104 | PCB-185 | 3.54e+07 | 1.08 | y | 1.34 | 47:21 | 0.956 | 0.951-0.961 | 50.5651 |
| PCB-154 | 3.51e+07 | 1.29 | y | 0.88 | 40:22 | 1.084 | 1.079-1.089 | 59.2051 | PCB-174 | 3.78e+07 | 1.07 | y | 1.34 | 47:43 | 0.963 | 0.958-0.968 | 54.0856 |
| PCB-151 | 3.21e+07 | 1.29 | y | 0.81 | 41:00 | 1.101 | 1.097-1.107 | 59.2314 | PCB-181 | 3.87e+07 | 1.07 | y | 1.36 | 47:49 | 0.965 | 0.961-0.971 | 54.4788 |
| PCB-135 | 3.03e+07 | 1.24 | y | 0.78 | 41:13 | 1.107 | 1.101-1.113 | 58.0885 | PCB-177 | 3.60e+07 | 1.05 | y | 1.24 | 48:00 | 0.969 | 0.964-0.974 | 55.6567 |
| PCB-144 | 3.52e+07 | 1.28 | y | 0.82 | 41:20 | 1.110 | 1.105-1.116 | 64.0994 | PCB-171 | 3.63e+07 | 1.05 | y | 1.31 | 48:17 | 0.975 | 0.970-0.980 | 52.9357 |
| PCB-147 | 3.41e+07 | 1.30 | y | 0.83 | 41:28 | 1.114 | 1.011-1.120 | 61.4810 | PCB-173 | 3.30e+07 | 1.06 | y | 1.16 | 48:43 | 0.984 | 0.979-0.989 | 54.4858 |
| PCB-139/149 | 6.90e+07 | 1.30 | y | 0.84 | 41:43 | 1.120 | 1.115-1.127 | 121.947 | PCB-172 | 3.50e+07 | 1.07 | y | 1.22 | 49:09 | 0.992 | 0.988-0.998 | 54.8192 |
| - PCB-140 | 3.21e+07 | 1.29 | y | 0.79 | 41:55 | 1.126 | 1.120-1.132 | 60.9400 | PCB-192 | 4.21e+07 | 1.09 | y | 1.53 | 49:21 | 0.996 | 0.991-1.001 | 52.8445 |
| - PCB-134/143 | 7.47e+07 | 1.28 | y | 0.93 | 42:21 | 0.975 | 0.970-0.980 | 102.907 | PCB-180 | 3.83e+07 | 1.08 | y | 1.43 | 49:33 | 1.000 | 0.995-1.005 | 51.3148 |

Integrations

RL: MONO, TRI - DECA: _____

by
Analyst Dms

Date: 9/23/14

Client ID: OPR
Lab ID: B4I0047-BS1

Filename: 140919E1 S:2 Acq:19-SEP-14 10:37:25
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: NA

ConCal: ST140919E1-1

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc |
|---------------|----------|--------|------|-------|-------|-------------|-----|---------|
| PCB-193 | 4.53e+07 | 1.04 y | 1.65 | 49:45 | 1.004 | 0.999-1.009 | | 52.5231 |
| PCB-191 | 4.50e+07 | 1.08 y | 1.67 | 50:00 | 1.009 | 1.004-1.014 | | 51.6124 |
| PCB-170 | 3.32e+07 | 1.05 y | 1.50 | 51:01 | 1.000 | 0.995-1.005 | | 52.5823 |
| PCB-190 | 4.44e+07 | 1.07 y | 2.02 | 51:12 | 1.004 | 0.998-1.008 | | 52.3285 |
| PCB-189 | 4.20e+07 | 1.05 y | 1.54 | 52:29 | 1.000 | 0.995-1.005 | | 52.9342 |
| PCB-202 | 3.56e+07 | 0.92 y | 1.04 | 48:29 | 1.000 | 0.995-1.005 | | 51.0837 |
| PCB-201 | 3.94e+07 | 0.95 y | 1.10 | 48:58 | 1.010 | 1.006-1.016 | | 53.3154 |
| PCB-204 | 3.55e+07 | 0.90 y | 0.99 | 49:07 | 1.013 | 1.009-1.019 | | 53.3616 |
| PCB-197 | 3.90e+07 | 0.94 y | 1.07 | 49:25 | 1.020 | 1.015-1.025 | | 54.1968 |
| PCB-200 | 3.87e+07 | 0.92 y | 1.02 | 50:18 | 1.038 | 1.032-1.044 | | 56.6606 |
| PCB-198 | 2.61e+07 | 0.91 y | 0.74 | 51:36 | 1.065 | 1.058-1.068 | | 52.3449 |
| PCB-199 | 2.79e+07 | 0.94 y | 0.73 | 51:43 | 1.067 | 1.060-1.070 | | 57.0615 |
| - PCB-196/203 | 5.63e+07 | 0.93 y | 0.77 | 51:58 | 1.072 | 1.066-1.076 | | 108.763 |
| - PCB-195 | 2.86e+07 | 0.91 y | 1.20 | 53:08 | 0.985 | 0.979-0.989 | | 53.7840 |
| PCB-194 | 2.93e+07 | 0.90 y | 1.25 | 53:59 | 1.000 | 0.995-1.005 | | 52.9938 |
| PCB-205 | 3.18e+07 | 0.91 y | 1.41 | 54:16 | 1.006 | 1.001-1.011 | | 50.6395 |
| PCB-208 | 3.07e+07 | 1.37 y | 0.96 | 53:16 | 1.000 | 0.995-1.005 | | 52.3953 |
| PCB-207 | 3.15e+07 | 1.38 y | 0.92 | 53:35 | 1.006 | 1.001-1.011 | | 56.5297 |
| PCB-206 | 1.85e+07 | 1.36 y | 1.03 | 55:38 | 1.000 | 0.995-1.005 | | 51.5588 |
| PCB-209 | 1.96e+07 | 1.21 y | 1.18 | 56:59 | 1.000 | 0.995-1.005 | | 52.8413 |

| Name | Resp | RA | RT | RRF | Conc |
|-----------------|----------|--------|-------|------|---------|
| Total Mono-PCB | 1.93e+08 | 2.95 y | 16:20 | 1.22 | 163.770 |
| Total Di-PCB | 1.56e+09 | 1.64 y | 20:19 | 1.21 | 1289.90 |
| Total Tri-PCB | 4.70e+08 | 1.08 y | 24:27 | 1.16 | 480.331 |
| Total Tri-PCB | 6.40e+08 | 0.95 y | 28:09 | 1.35 | 668.814 |
| Total Tetra-PCB | 2.02e+09 | 0.79 y | 28:12 | 1.17 | 1992.58 |
| Total Penta-PCB | 1.87e+09 | 1.61 y | 32:53 | 1.21 | 2196.05 |
| Total Penta-PCB | 2.52e+08 | 1.60 y | 42:25 | 1.26 | 280.097 |
| Total Hexa-PCB | 5.08e+08 | 1.30 y | 37:16 | 0.92 | 832.261 |
| Total Hexa-PCB | 1.26e+09 | 1.28 y | 42:21 | 1.08 | 1447.20 |
| Total Hepta-PCB | 9.76e+08 | 1.07 y | 43:04 | 1.27 | 1336.79 |
| Total Octa-PCB | 2.99e+08 | 0.92 y | 48:29 | 0.92 | 486.787 |
| Total Octa-PCB | 9.26e+07 | 0.91 y | 53:08 | 1.29 | 162.353 |
| Total Nona-PCB | 8.12e+07 | 1.37 y | 53:16 | 0.96 | 161.297 |
| Total Deca-PCB | 1.96e+07 | 1.21 y | 56:59 | 1.18 | 52.8413 |

Total PCB Conc:11452.8898950

RL: MONO, TRI - DECA: _____

Integrations

by

Analyst: DMS

Date: 9/23/14

Client ID: OPR
Lab ID: B4I0047-BS1

Filename: 140919E1 S:2 Acq:19-SEP-14 10:37:25
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000

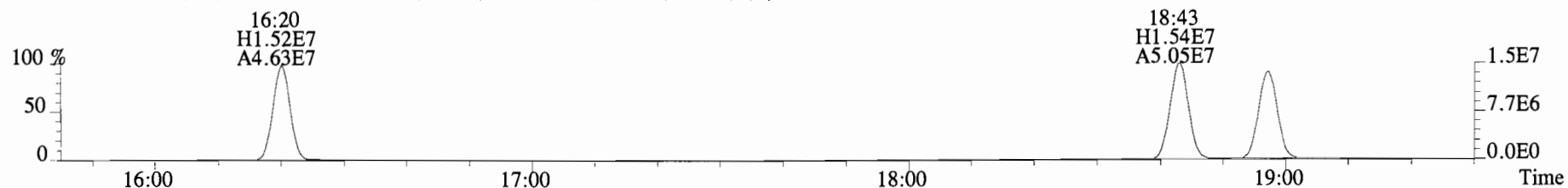
ConCal: ST140919E1-1
EndCAL: NA

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec | CRS vs. RS | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec |
|-------------|----------|------|-----|------|-------|-------|-------------|------|------|------------|-------------|----------|------|-----|------|-------|-------|-------------|------|-----|
| 13C-PCB-1 | 9.44e+07 | 3.46 | y | 0.89 | 16:19 | 0.624 | 0.622-0.628 | 69.2 | 69.2 | | | | | | | | | | | |
| 13C-PCB-3 | 9.77e+07 | 3.53 | y | 0.93 | 18:56 | 0.724 | 0.721-0.729 | 68.8 | 68.8 | | 13C-PCB-79 | 1.27e+08 | 0.80 | y | 1.01 | 38:01 | 1.028 | 1.023-1.033 | 103 | 103 |
| 13C-PCB-4 | 6.19e+07 | 1.56 | y | 0.55 | 20:16 | 0.775 | 0.772-0.780 | 73.8 | 73.8 | | 13C-PCB-178 | 5.70e+07 | 0.45 | y | 0.63 | 45:50 | 0.985 | 0.979-0.989 | 110 | 110 |
| 13C-PCB-9 | 9.36e+07 | 1.56 | y | 0.83 | 22:04 | 0.844 | 0.840-0.848 | 73.9 | 73.9 | | | | | | | | | | | |
| 13C-PCB-11 | 1.17e+08 | 1.56 | y | 0.94 | 25:26 | 0.973 | 0.968-0.978 | 81.8 | 81.8 | | | | | | | | | | | |
| 13C-PCB-19 | 5.89e+07 | 1.16 | y | 0.53 | 24:25 | 0.934 | 0.929-0.939 | 72.2 | 72.2 | | | | | | | | | | | |
| 13C-PCB-28 | 7.20e+07 | 1.06 | y | 0.89 | 29:18 | 1.004 | 0.999-1.009 | 83.1 | 83.1 | | 13C-PCB-79 | 1.27e+08 | 0.80 | y | 1.20 | 38:01 | 0.969 | 0.963-0.973 | 118 | 118 |
| 13C-PCB-32 | 9.67e+07 | 1.16 | y | 0.81 | 27:20 | 1.045 | 1.041-1.051 | 77.6 | 77.6 | | 13C-PCB-178 | 5.70e+07 | 0.45 | y | 0.94 | 45:50 | 0.925 | 0.920-0.930 | 117 | 117 |
| 13C-PCB-37 | 6.98e+07 | 1.12 | y | 0.83 | 33:10 | 1.136 | 1.131-1.143 | 86.0 | 86.0 | | | | | | | | | | | |
| 13C-PCB-47 | 7.64e+07 | 0.79 | y | 0.74 | 32:13 | 0.872 | 0.867-0.875 | 83.5 | 83.5 | | | | | | | | | | | |
| 13C-PCB-52 | 7.36e+07 | 0.81 | y | 0.71 | 31:42 | 0.858 | 0.853-0.861 | 84.4 | 84.4 | | | | | | | | | | | |
| 13C-PCB-54 | 9.32e+07 | 0.81 | y | 0.85 | 28:11 | 0.762 | 0.758-0.766 | 89.1 | 89.1 | | | | | | | | | | | |
| 13C-PCB-70 | 9.90e+07 | 0.80 | y | 0.94 | 35:43 | 0.966 | 0.961-0.971 | 85.1 | 85.1 | | | | | | | | | | | |
| 13C-PCB-77 | 9.95e+07 | 0.81 | y | 0.89 | 39:50 | 1.078 | 1.073-1.083 | 90.5 | 90.5 | | | | | | | | | | | |
| 13C-PCB-80 | 1.08e+08 | 0.83 | y | 0.96 | 36:08 | 0.977 | 0.972-0.982 | 91.3 | 91.3 | | | | | | | | | | | |
| 13C-PCB-81 | 9.01e+07 | 0.81 | y | 0.84 | 39:15 | 1.062 | 1.057-1.067 | 87.3 | 87.3 | | | | | | | | | | | |
| 13C-PCB-95 | 6.26e+07 | 1.60 | y | 0.74 | 36:01 | 0.913 | 0.908-0.918 | 85.8 | 85.8 | | | | | | | | | | | |
| 13C-PCB-97 | 6.01e+07 | 1.59 | y | 0.69 | 39:00 | 0.989 | 0.984-0.994 | 88.8 | 88.8 | | | | | | | | | | | |
| 13C-PCB-101 | 6.67e+07 | 1.59 | y | 0.79 | 37:42 | 0.956 | 0.951-0.961 | 86.5 | 86.5 | | | | | | | | | | | |
| 13C-PCB-104 | 7.69e+07 | 1.58 | y | 1.00 | 32:52 | 0.833 | 0.829-0.837 | 78.7 | 78.7 | | | | | | | | | | | |
| 13C-PCB-105 | 7.05e+07 | 1.64 | y | 1.24 | 43:15 | 0.929 | 0.924-0.934 | 69.3 | 69.3 | | | | | | | | | | | |
| 13C-PCB-114 | 7.16e+07 | 1.69 | y | 1.21 | 42:24 | 0.911 | 0.905-0.915 | 72.2 | 72.2 | | | | | | | | | | | |
| 13C-PCB-118 | 8.54e+07 | 1.61 | y | 0.98 | 41:45 | 1.059 | 1.054-1.064 | 88.4 | 88.4 | | | | | | | | | | | |
| 13C-PCB-123 | 8.15e+07 | 1.59 | y | 0.95 | 41:33 | 1.054 | 1.049-1.059 | 87.4 | 87.4 | | | | | | | | | | | |
| 13C-PCB-126 | 6.48e+07 | 1.65 | y | 1.16 | 45:30 | 0.977 | 0.972-0.982 | 67.9 | 67.9 | | | | | | | | | | | |
| 13C-PCB-127 | 7.93e+07 | 1.62 | y | 1.34 | 43:35 | 0.936 | 0.931-0.941 | 71.9 | 71.9 | | | | | | | | | | | |
| 13C-PCB-138 | 7.50e+07 | 1.29 | y | 1.04 | 44:59 | 0.966 | 0.961-0.971 | 87.5 | 87.5 | | | | | | | | | | | |
| 13C-PCB-141 | 7.79e+07 | 1.33 | y | 1.07 | 44:09 | 0.948 | 0.943-0.953 | 88.4 | 88.4 | | | | | | | | | | | |
| 13C-PCB-153 | 7.83e+07 | 1.33 | y | 1.11 | 43:25 | 0.933 | 0.927-0.937 | 85.6 | 85.6 | | | | | | | | | | | |
| 13C-PCB-155 | 6.70e+07 | 1.26 | y | 0.83 | 37:14 | 0.944 | 0.939-0.949 | 82.0 | 82.0 | | | | | | | | | | | |
| 13C-PCB-156 | 8.79e+07 | 1.31 | y | 1.24 | 48:15 | 1.037 | 1.032-1.042 | 85.9 | 85.9 | | | | | | | | | | | |
| 13C-PCB-157 | 9.38e+07 | 1.34 | y | 1.31 | 48:31 | 1.042 | 1.037-1.047 | 87.0 | 87.0 | | | | | | | | | | | |
| 13C-PCB-159 | 8.26e+07 | 1.30 | y | 1.20 | 46:17 | 0.994 | 0.989-0.999 | 83.8 | 83.8 | | | | | | | | | | | |
| 13C-PCB-167 | 9.39e+07 | 1.28 | y | 1.32 | 46:57 | 1.009 | 1.004-1.014 | 86.5 | 86.5 | | | | | | | | | | | |
| 13C-PCB-169 | 8.55e+07 | 1.32 | y | 1.22 | 50:39 | 1.088 | 1.082-1.092 | 85.7 | 85.7 | | | | | | | | | | | |
| 13C-PCB-170 | 4.21e+07 | 0.46 | y | 0.54 | 51:00 | 1.096 | 1.089-1.101 | 95.7 | 95.7 | | | | | | | | | | | |
| 13C-PCB-180 | 5.22e+07 | 0.46 | y | 0.67 | 49:32 | 1.064 | 1.059-1.069 | 94.2 | 94.2 | | | | | | | | | | | |
| 13C-PCB-188 | 6.31e+07 | 0.45 | y | 0.94 | 43:03 | 0.925 | 0.919-0.929 | 82.1 | 82.1 | | | | | | | | | | | |
| 13C-PCB-189 | 5.15e+07 | 0.46 | y | 0.72 | 52:29 | 1.127 | 1.120-1.132 | 87.5 | 87.5 | | | | | | | | | | | |
| 13C-PCB-194 | 4.44e+07 | 0.92 | y | 0.81 | 53:58 | 0.995 | 0.990-1.000 | 98.4 | 98.4 | | | | | | | | | | | |
| 13C-PCB-202 | 6.70e+07 | 0.91 | y | 0.83 | 48:28 | 1.041 | 1.036-1.046 | 97.9 | 97.9 | | | | | | | | | | | |
| 13C-PCB-206 | 3.50e+07 | 0.81 | y | 0.66 | 55:38 | 1.025 | 1.021-1.031 | 95.4 | 95.4 | | | | | | | | | | | |
| 13C-PCB-208 | 6.09e+07 | 0.78 | y | 1.12 | 53:15 | 0.982 | 0.976-0.986 | 97.3 | 97.3 | | | | | | | | | | | |
| 13C-PCB-209 | 3.16e+07 | 1.16 | y | 0.61 | 56:58 | 1.050 | 1.044-1.054 | 92.4 | 92.4 | | | | | | | | | | | |

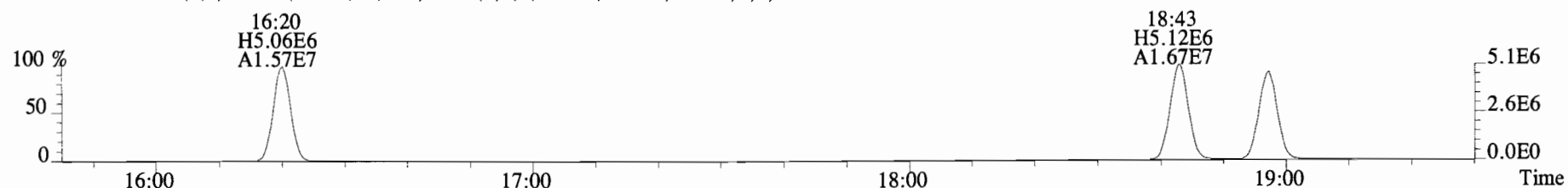
Analyst: *DMS*

Date: *9/23/14*

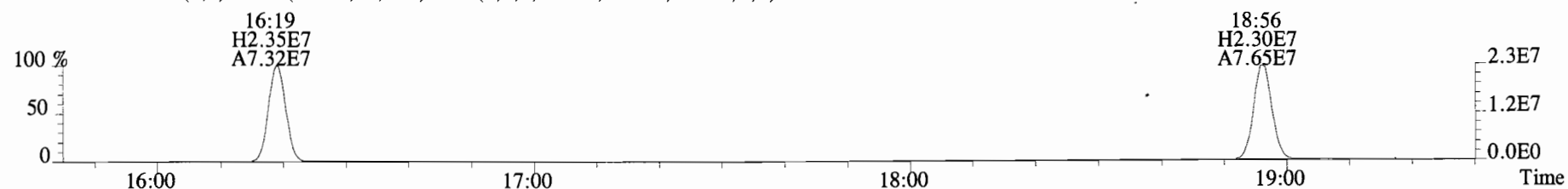
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Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
188.0393 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4408.0,0.00%,F,F)



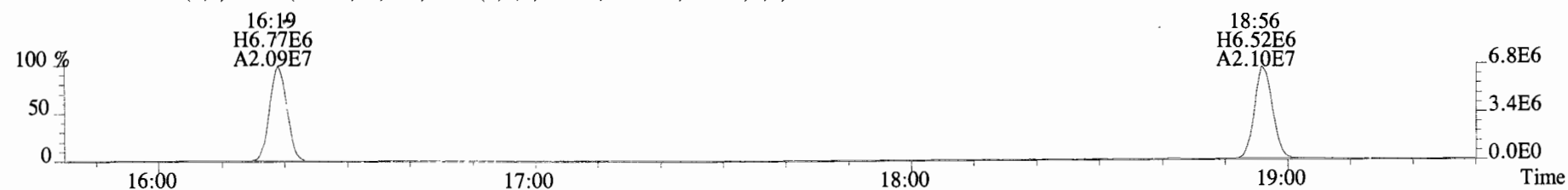
190.0363 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4300.0,0.00%,F,F)



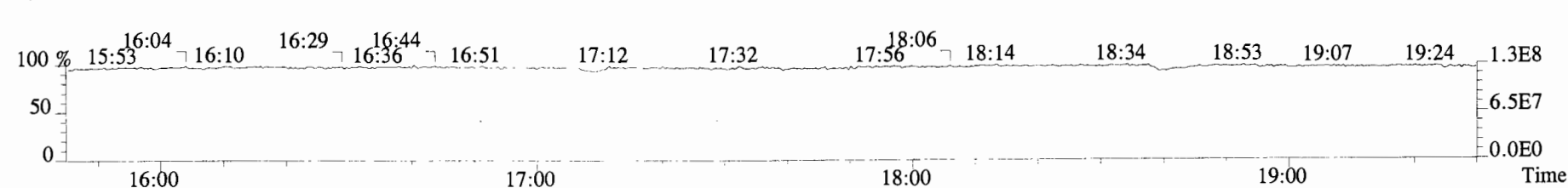
200.0795 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7724.0,0.00%,F,F)



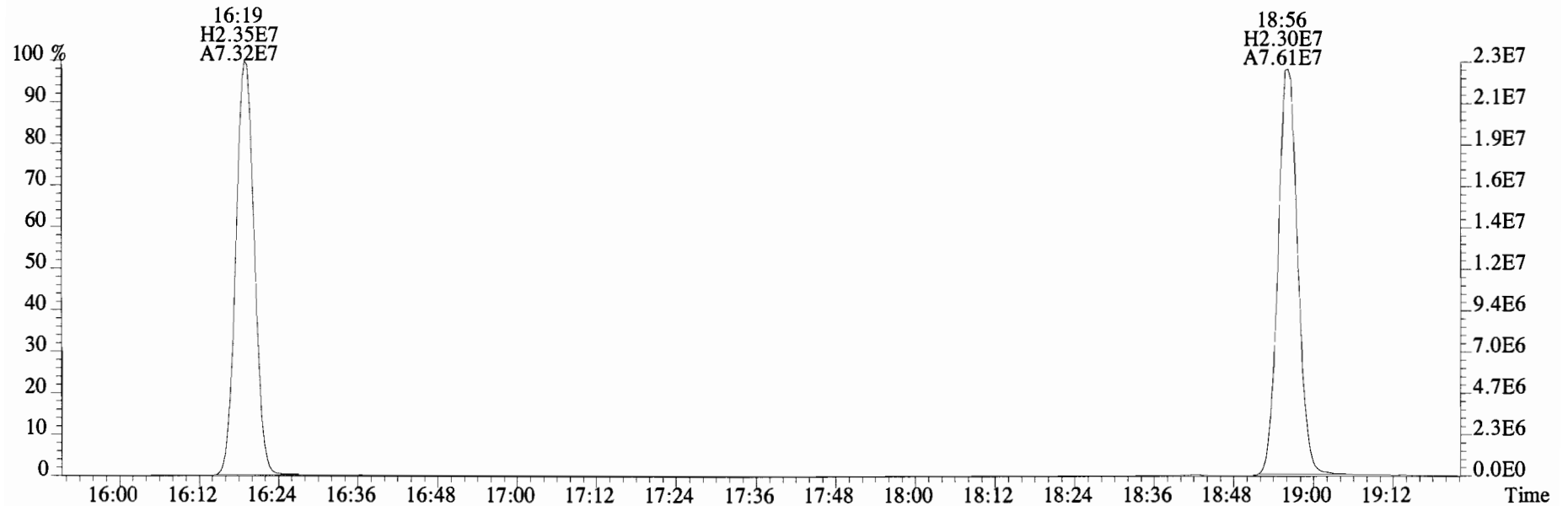
202.0766 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,49704.0,0.00%,F,F)



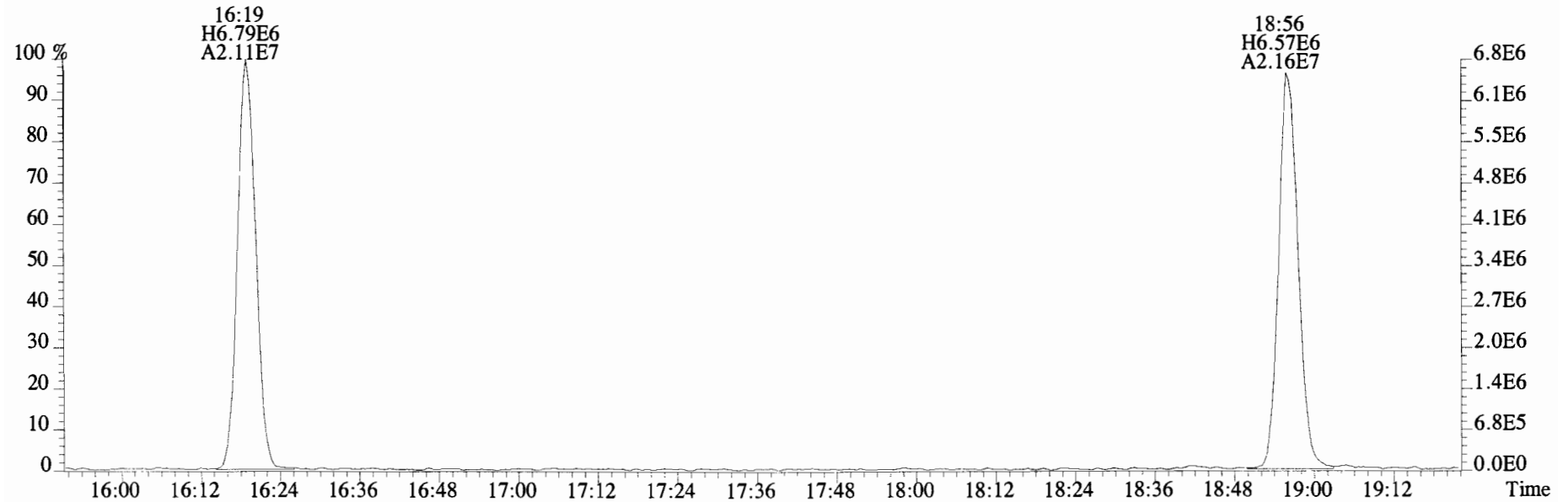
180.9880 S:2



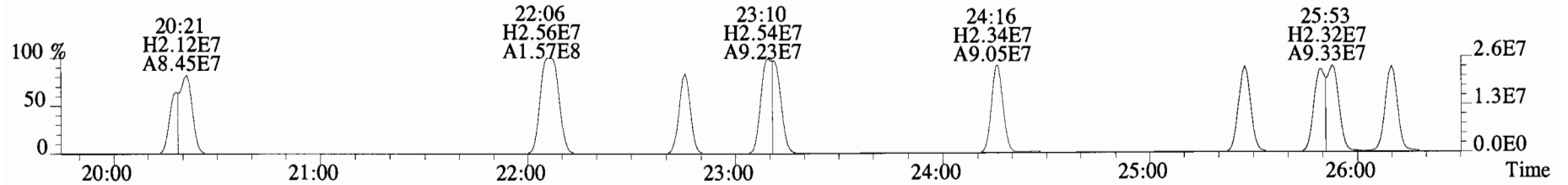
File:140919E1 #1-729 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
200.0795 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7724.0,0.00%,F,F)



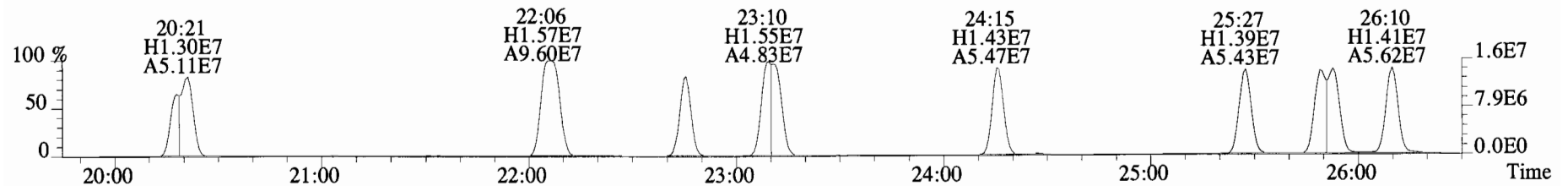
202.0766 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,49704.0,0.00%,F,F)



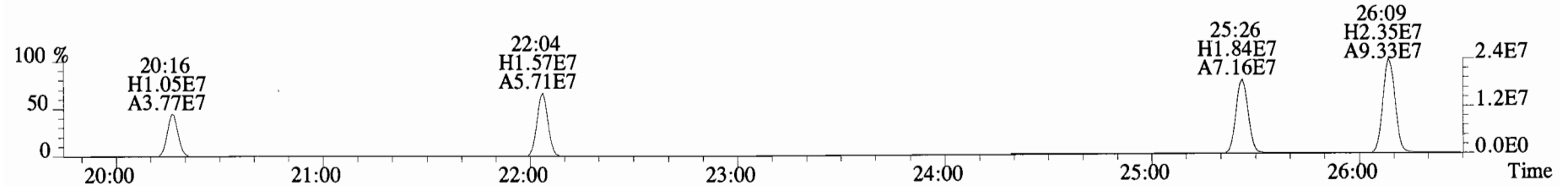
File:140919E1 #1-757 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
 222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7336.0,0.00%,F,F)



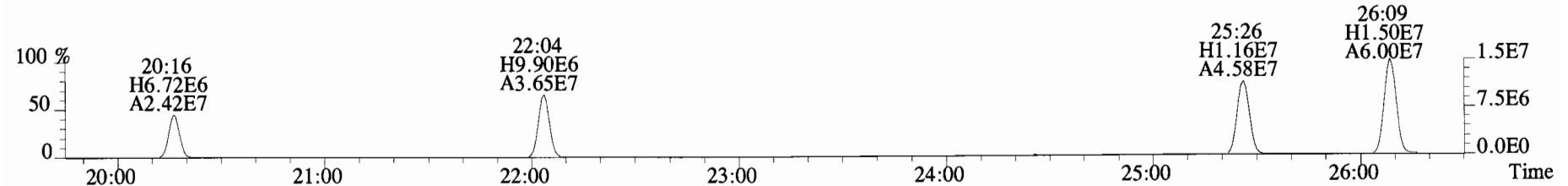
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,46020.0,0.00%,F,F)



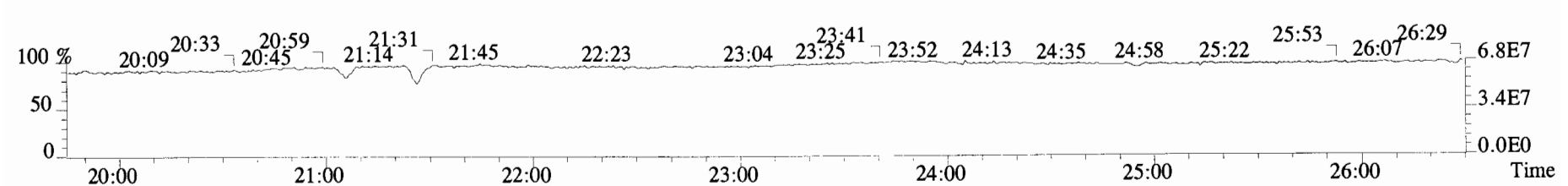
234.0406 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4884.0,0.00%,F,F)



236.0376 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6356.0,0.00%,F,F)



230.9856 S:2 F:2



Client ID: OPR
Lab ID: B4I0047-BS1

Filename: 140919E1 S:2 Acq:19-SEP-14 10:37:25
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000

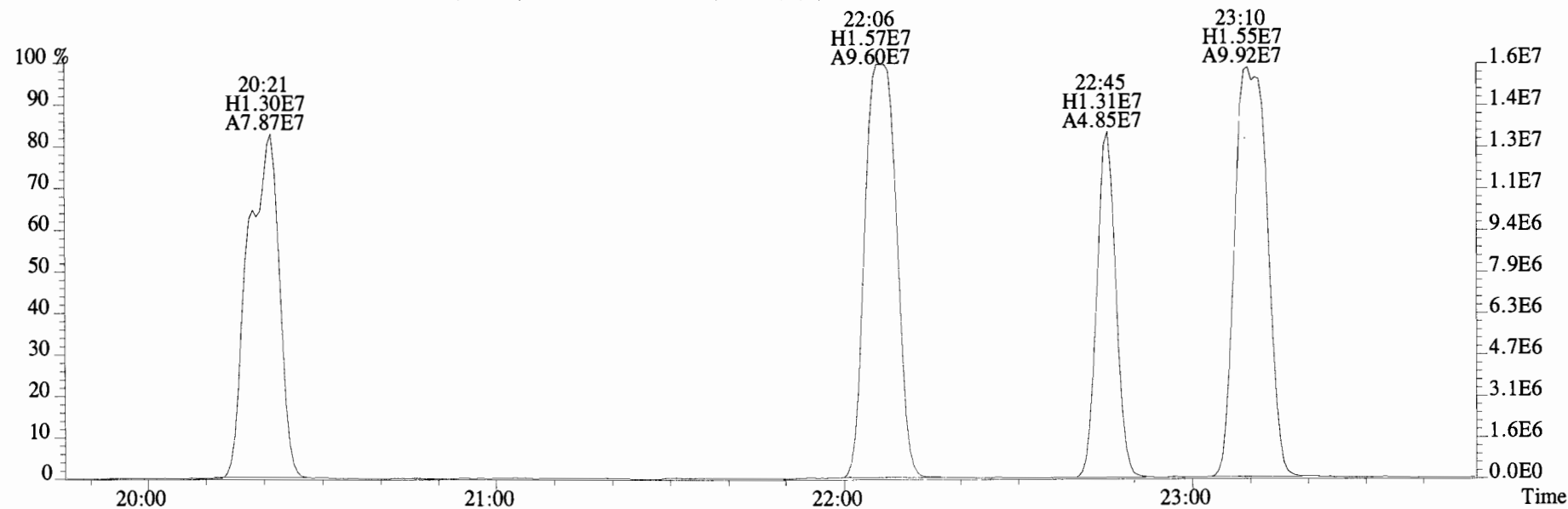
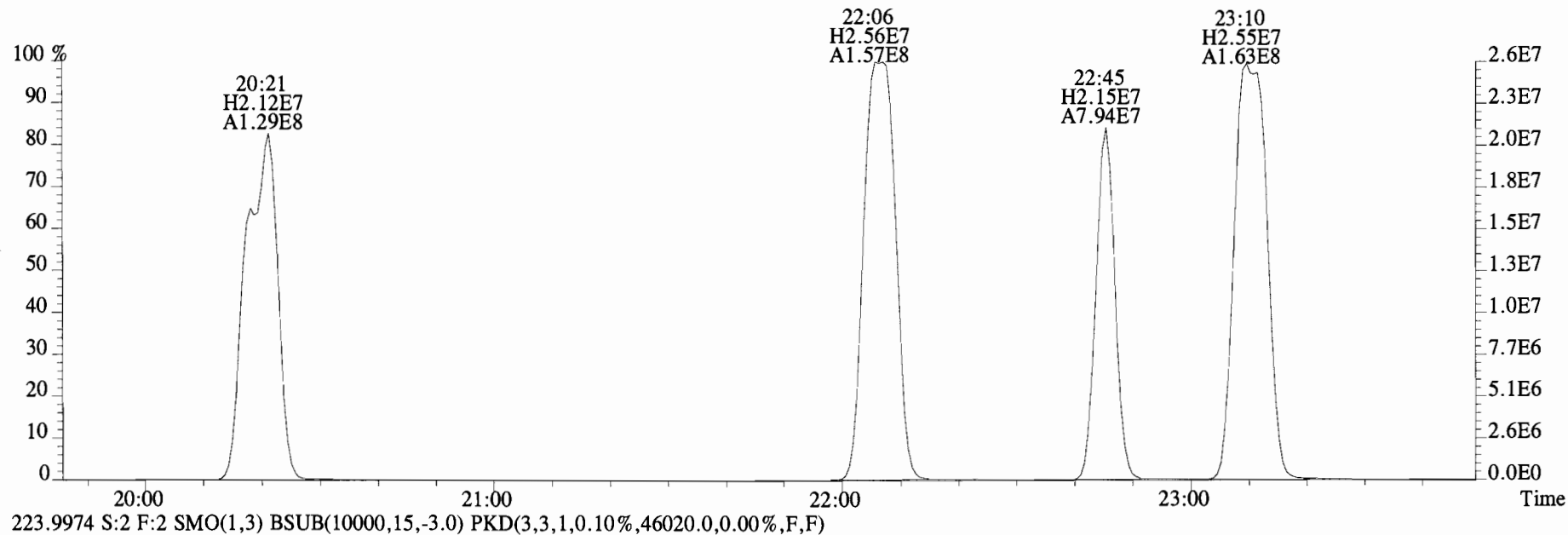
ConCal: ST140919E1-1
EndCAL: NA

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec | CRS vs. RS | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec |
|-------------|----------|------|-----|------|-------|-------|-------------|------|------|------------|-------------|----------|------|-----|------|-------|-------|-------------|------|-----|
| 13C-PCB-1 | 9.44e+07 | 3.46 | y | 0.89 | 16:19 | 0.624 | 0.622-0.628 | 69.2 | 69.2 | | | | | | | | | | | |
| 13C-PCB-3 | 9.77e+07 | 3.53 | y | 0.93 | 18:56 | 0.724 | 0.721-0.729 | 68.8 | 68.8 | | 13C-PCB-79 | 1.27e+08 | 0.80 | y | 1.01 | 38:01 | 1.028 | 1.023-1.033 | 103 | 103 |
| 13C-PCB-4 | 6.19e+07 | 1.56 | y | 0.55 | 20:16 | 0.775 | 0.772-0.780 | 73.8 | 73.8 | | 13C-PCB-178 | 5.70e+07 | 0.45 | y | 0.63 | 45:50 | 0.985 | 0.979-0.989 | 110 | 110 |
| 13C-PCB-9 | 9.36e+07 | 1.56 | y | 0.83 | 22:04 | 0.844 | 0.840-0.848 | 73.9 | 73.9 | | | | | | | | | | | |
| 13C-PCB-11 | 1.17e+08 | 1.56 | y | 0.94 | 25:26 | 0.973 | 0.968-0.978 | 81.8 | 81.8 | PS vs. IS | | | | | | | | | | |
| 13C-PCB-19 | 5.89e+07 | 1.16 | y | 0.53 | 24:25 | 0.934 | 0.929-0.939 | 72.2 | 72.2 | | | | | | | | | | | |
| 13C-PCB-28 | 7.20e+07 | 1.06 | y | 0.89 | 29:18 | 1.004 | 0.999-1.009 | 83.1 | 83.1 | | 13C-PCB-79 | 1.27e+08 | 0.80 | y | 1.20 | 38:01 | 0.969 | 0.963-0.973 | 118 | 118 |
| 13C-PCB-32 | 9.67e+07 | 1.16 | y | 0.81 | 27:20 | 1.045 | 1.041-1.051 | 77.6 | 77.6 | | 13C-PCB-178 | 5.70e+07 | 0.45 | y | 0.94 | 45:50 | 0.925 | 0.920-0.930 | 117 | 117 |
| 13C-PCB-37 | 6.98e+07 | 1.12 | y | 0.83 | 33:10 | 1.136 | 1.131-1.143 | 86.0 | 86.0 | | | | | | | | | | | |
| 13C-PCB-47 | 7.64e+07 | 0.79 | y | 0.74 | 32:13 | 0.872 | 0.867-0.875 | 83.5 | 83.5 | | | | | | | | | | | |
| 13C-PCB-52 | 7.36e+07 | 0.81 | y | 0.71 | 31:42 | 0.858 | 0.853-0.861 | 84.4 | 84.4 | | | | | | | | | | | |
| 13C-PCB-54 | 9.32e+07 | 0.81 | y | 0.85 | 28:11 | 0.762 | 0.758-0.766 | 89.1 | 89.1 | | | | | | | | | | | |
| 13C-PCB-70 | 9.90e+07 | 0.80 | y | 0.94 | 35:43 | 0.966 | 0.961-0.971 | 85.1 | 85.1 | | | | | | | | | | | |
| 13C-PCB-77 | 9.95e+07 | 0.81 | y | 0.89 | 39:50 | 1.078 | 1.073-1.083 | 90.5 | 90.5 | | | | | | | | | | | |
| 13C-PCB-80 | 1.08e+08 | 0.83 | y | 0.96 | 36:08 | 0.977 | 0.972-0.982 | 91.3 | 91.3 | | | | | | | | | | | |
| 13C-PCB-81 | 9.01e+07 | 0.81 | y | 0.84 | 39:15 | 1.062 | 1.057-1.067 | 87.3 | 87.3 | | | | | | | | | | | |
| 13C-PCB-95 | 6.26e+07 | 1.60 | y | 0.74 | 36:01 | 0.913 | 0.908-0.918 | 85.8 | 85.8 | RS | | | | | | | | | | |
| 13C-PCB-97 | 6.01e+07 | 1.59 | y | 0.69 | 39:00 | 0.989 | 0.984-0.994 | 88.8 | 88.8 | | | | | | | | | | | |
| 13C-PCB-101 | 6.67e+07 | 1.59 | y | 0.79 | 37:42 | 0.956 | 0.951-0.961 | 86.5 | 86.5 | | Name | Resp | RA | RRF | RT | Conc | | | | |
| 13C-PCB-104 | 7.69e+07 | 1.58 | y | 1.00 | 32:52 | 0.833 | 0.829-0.837 | 78.7 | 78.7 | | 13C-PCB-15 | 1.53e+08 | 1.56 | y | 1.00 | 26:09 | 100 | | | |
| 13C-PCB-105 | 7.05e+07 | 1.64 | y | 1.24 | 43:15 | 0.929 | 0.924-0.934 | 69.3 | 69.3 | | 13C-PCB-31 | 9.76e+07 | 1.07 | y | 1.00 | 29:11 | 100 | | | |
| 13C-PCB-114 | 7.16e+07 | 1.69 | y | 1.21 | 42:24 | 0.911 | 0.905-0.915 | 72.2 | 72.2 | | 13C-PCB-60 | 1.23e+08 | 0.80 | y | 1.00 | 36:58 | 100 | | | |
| 13C-PCB-118 | 8.54e+07 | 1.61 | y | 0.98 | 41:45 | 1.059 | 1.054-1.064 | 88.4 | 88.4 | | 13C-PCB-111 | 9.82e+07 | 1.60 | y | 1.00 | 39:26 | 100 | | | |
| 13C-PCB-123 | 8.15e+07 | 1.59 | y | 0.95 | 41:33 | 1.054 | 1.049-1.059 | 87.4 | 87.4 | | 13C-PCB-128 | 8.22e+07 | 1.31 | y | 1.00 | 46:33 | 100 | | | |
| 13C-PCB-126 | 6.48e+07 | 1.65 | y | 1.16 | 45:30 | 0.977 | 0.972-0.982 | 67.9 | 67.9 | | 13C-PCB-205 | 5.57e+07 | 0.92 | y | 1.00 | 54:15 | 100 | | | |
| 13C-PCB-127 | 7.93e+07 | 1.62 | y | 1.34 | 43:35 | 0.936 | 0.931-0.941 | 71.9 | 71.9 | | | | | | | | | | | |
| 13C-PCB-138 | 7.50e+07 | 1.29 | y | 1.04 | 44:59 | 0.966 | 0.961-0.971 | 87.5 | 87.5 | | | | | | | | | | | |
| 13C-PCB-141 | 7.79e+07 | 1.33 | y | 1.07 | 44:09 | 0.948 | 0.943-0.953 | 88.4 | 88.4 | | | | | | | | | | | |
| 13C-PCB-153 | 7.83e+07 | 1.33 | y | 1.11 | 43:25 | 0.933 | 0.927-0.937 | 85.6 | 85.6 | | | | | | | | | | | |
| 13C-PCB-155 | 6.70e+07 | 1.26 | y | 0.83 | 37:14 | 0.944 | 0.939-0.949 | 82.0 | 82.0 | | | | | | | | | | | |
| 13C-PCB-156 | 8.79e+07 | 1.31 | y | 1.24 | 48:15 | 1.037 | 1.032-1.042 | 85.9 | 85.9 | | | | | | | | | | | |
| 13C-PCB-157 | 9.38e+07 | 1.34 | y | 1.31 | 48:31 | 1.042 | 1.037-1.047 | 87.0 | 87.0 | | | | | | | | | | | |
| 13C-PCB-159 | 8.26e+07 | 1.30 | y | 1.20 | 46:17 | 0.994 | 0.989-0.999 | 83.8 | 83.8 | | | | | | | | | | | |
| 13C-PCB-167 | 9.39e+07 | 1.28 | y | 1.32 | 46:57 | 1.009 | 1.004-1.014 | 86.5 | 86.5 | | | | | | | | | | | |
| 13C-PCB-169 | 8.55e+07 | 1.32 | y | 1.22 | 50:39 | 1.088 | 1.082-1.092 | 85.7 | 85.7 | | | | | | | | | | | |
| 13C-PCB-170 | 4.21e+07 | 0.46 | y | 0.54 | 51:00 | 1.096 | 1.089-1.101 | 95.7 | 95.7 | | | | | | | | | | | |
| 13C-PCB-180 | 5.22e+07 | 0.46 | y | 0.67 | 49:32 | 1.064 | 1.059-1.069 | 94.2 | 94.2 | | | | | | | | | | | |
| 13C-PCB-188 | 6.31e+07 | 0.45 | y | 0.94 | 43:03 | 0.925 | 0.919-0.929 | 82.1 | 82.1 | | | | | | | | | | | |
| 13C-PCB-189 | 5.15e+07 | 0.46 | y | 0.72 | 52:29 | 1.127 | 1.120-1.132 | 87.5 | 87.5 | | | | | | | | | | | |
| 13C-PCB-194 | 4.44e+07 | 0.92 | y | 0.81 | 53:58 | 0.995 | 0.990-1.000 | 98.4 | 98.4 | | | | | | | | | | | |
| 13C-PCB-202 | 6.70e+07 | 0.91 | y | 0.83 | 48:28 | 1.041 | 1.036-1.046 | 97.9 | 97.9 | | | | | | | | | | | |
| 13C-PCB-206 | 3.50e+07 | 0.81 | y | 0.66 | 55:38 | 1.025 | 1.021-1.031 | 95.4 | 95.4 | | | | | | | | | | | |
| 13C-PCB-208 | 6.09e+07 | 0.78 | y | 1.12 | 53:15 | 0.982 | 0.976-0.986 | 97.3 | 97.3 | | | | | | | | | | | |
| 13C-PCB-209 | 3.16e+07 | 1.16 | y | 0.61 | 56:58 | 1.050 | 1.044-1.054 | 92.4 | 92.4 | | | | | | | | | | | |

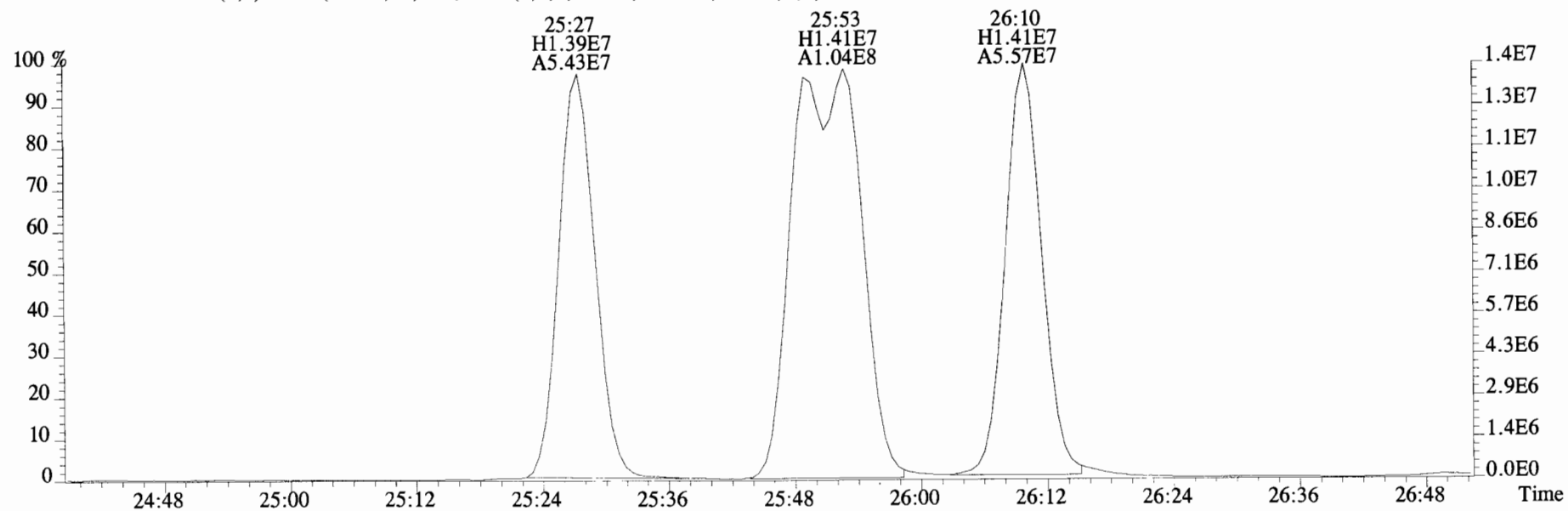
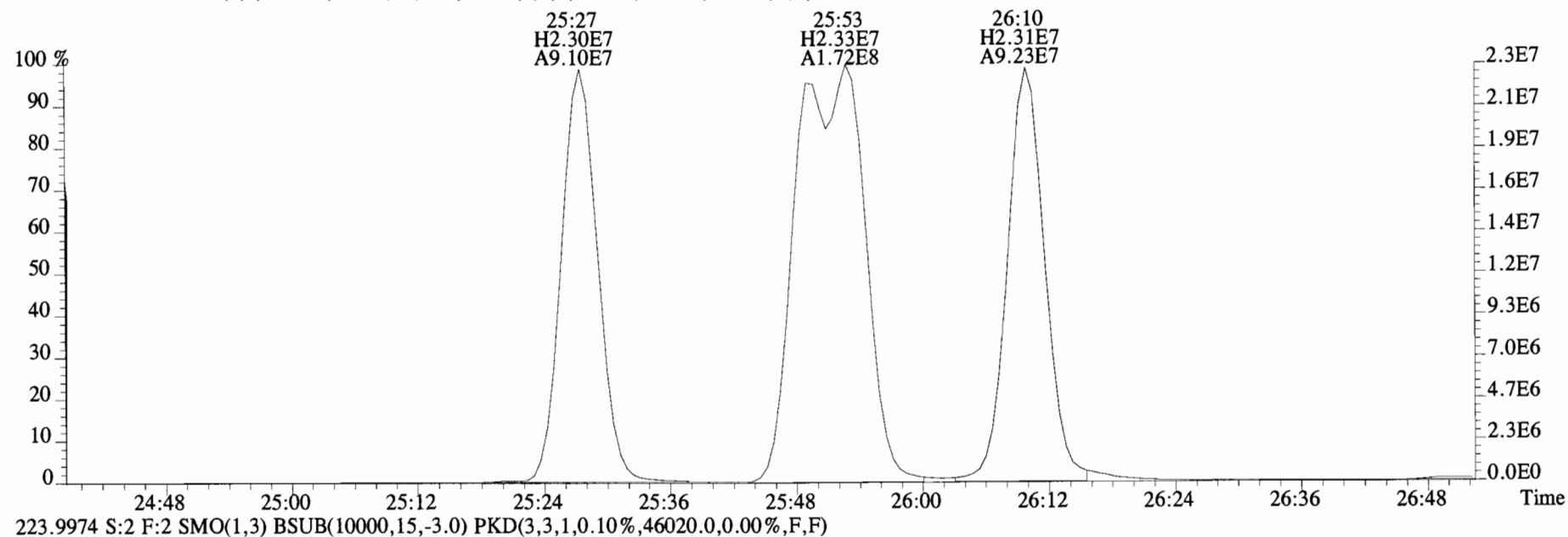
Analyst: _____

Date: _____

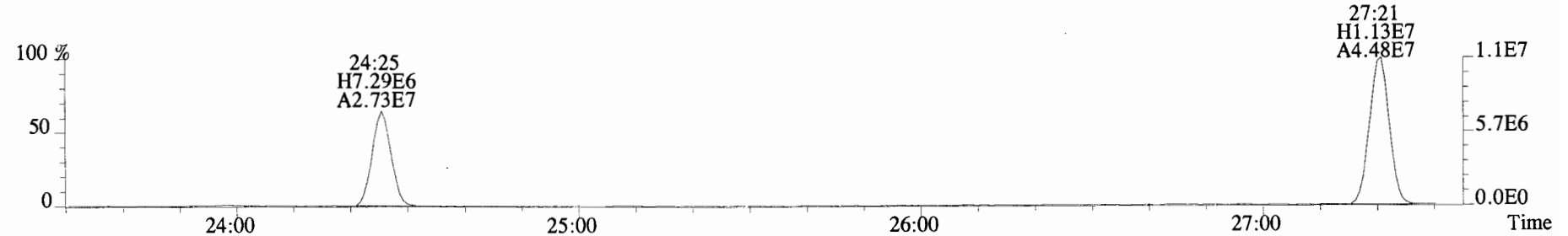
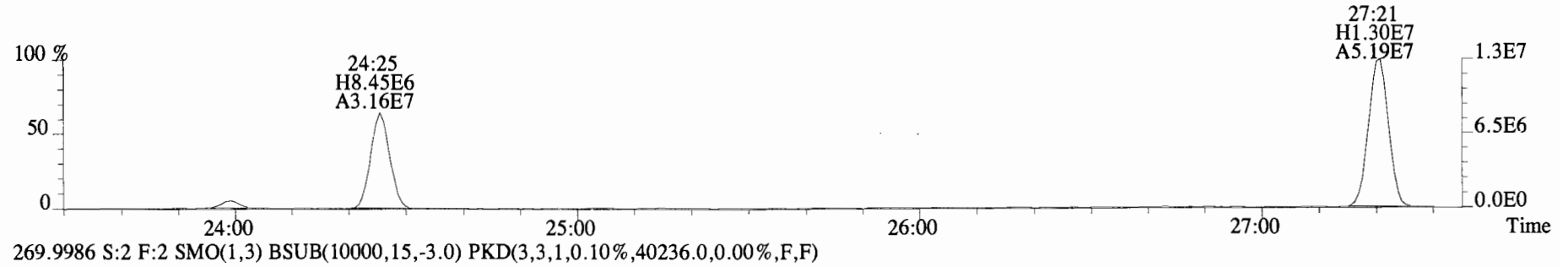
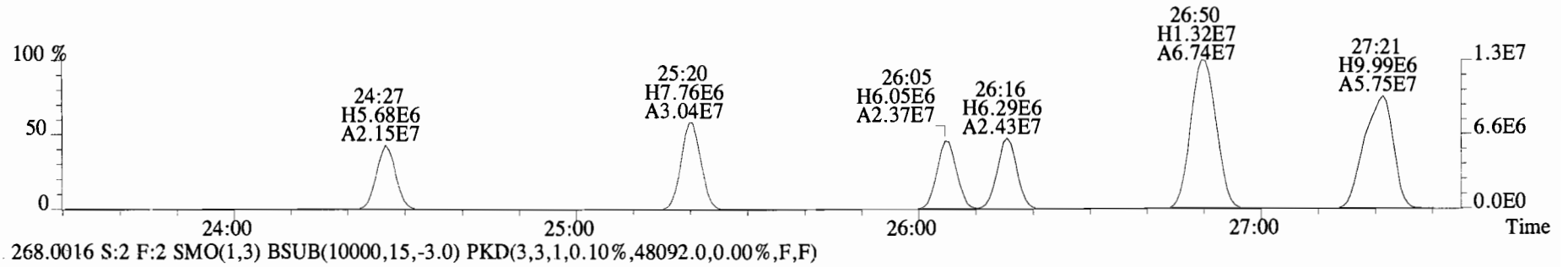
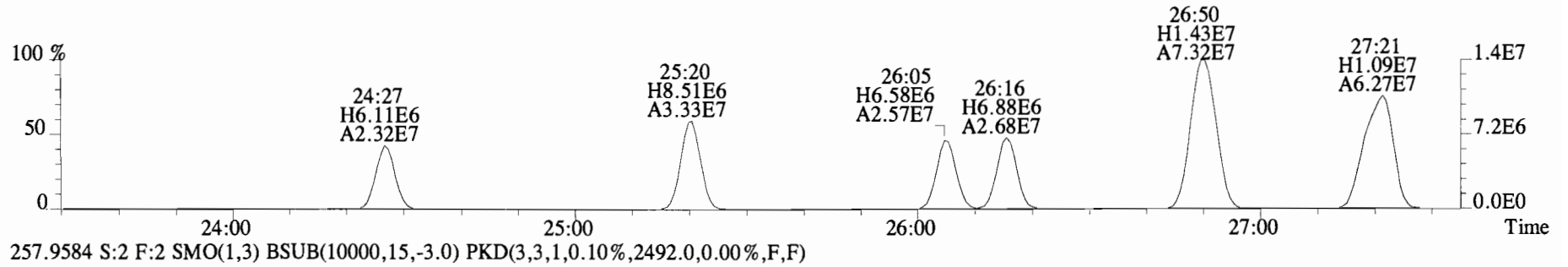
File:140919E1 #1-757 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7336.0,0.00%,F,F)



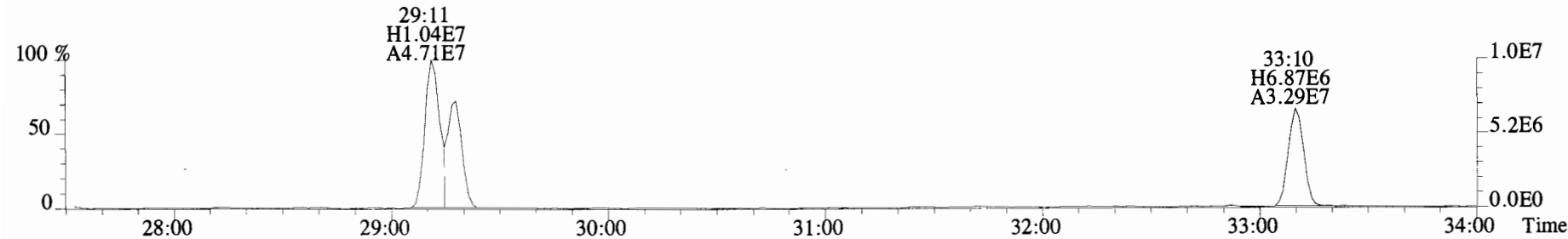
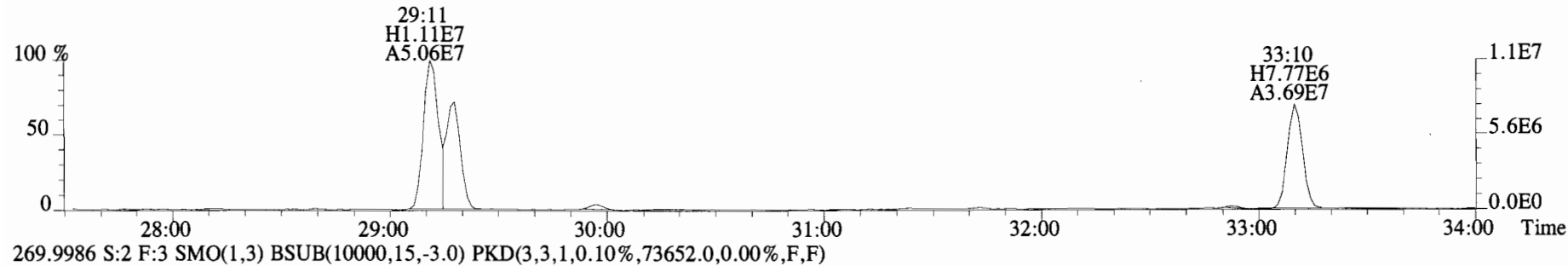
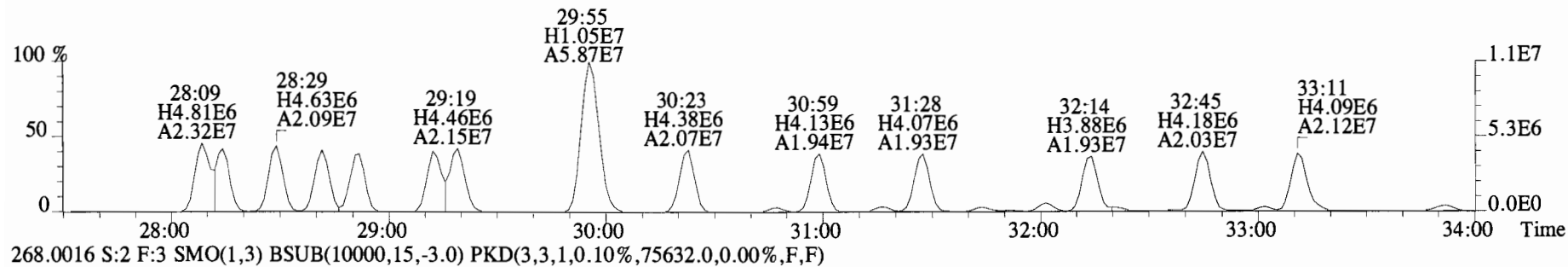
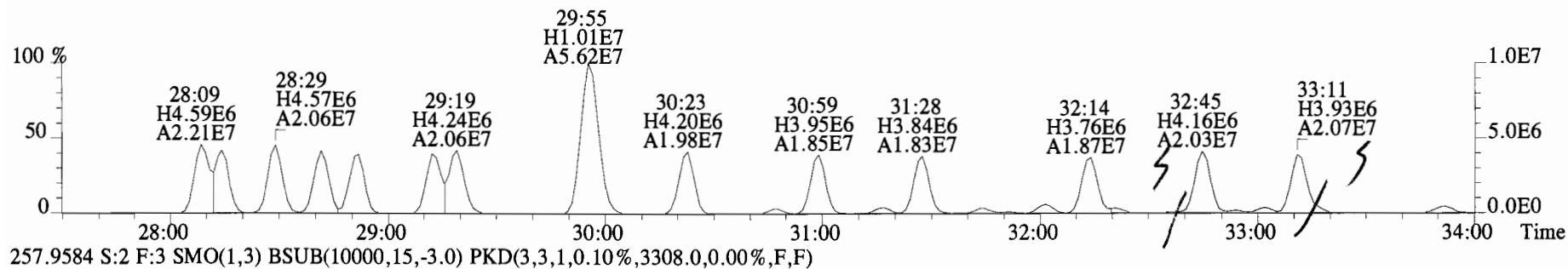
File:140919E1 #1-757 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B410047-BS1 OPR 1 Exp:PCB_ZB1
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7336.0,0.00%,F,F)



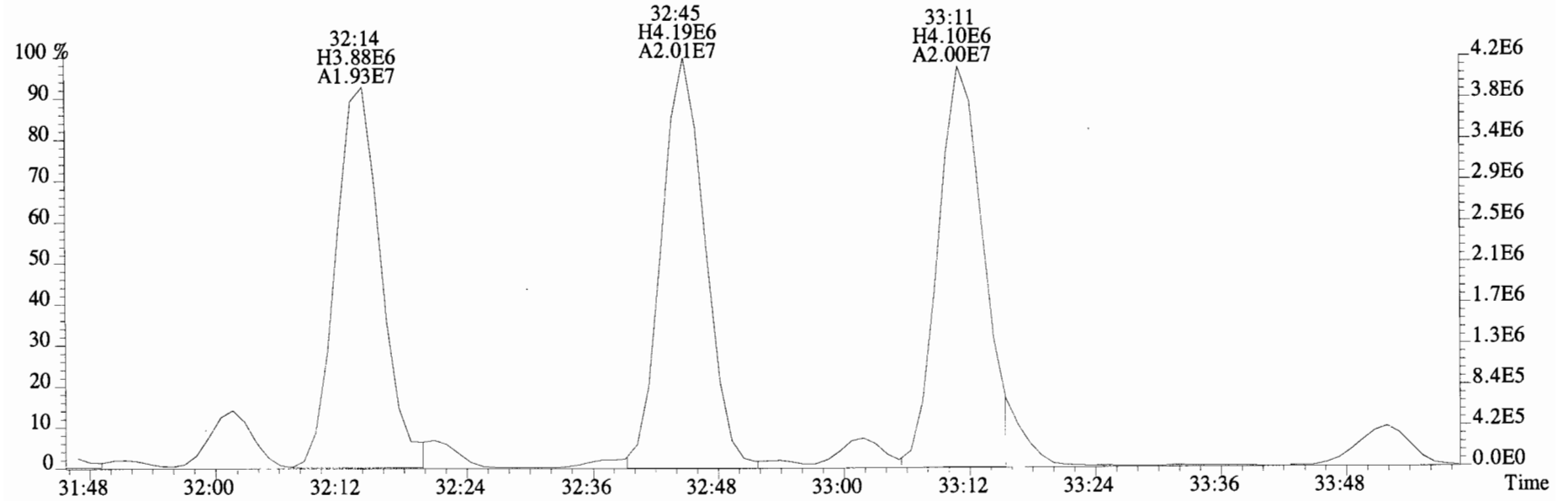
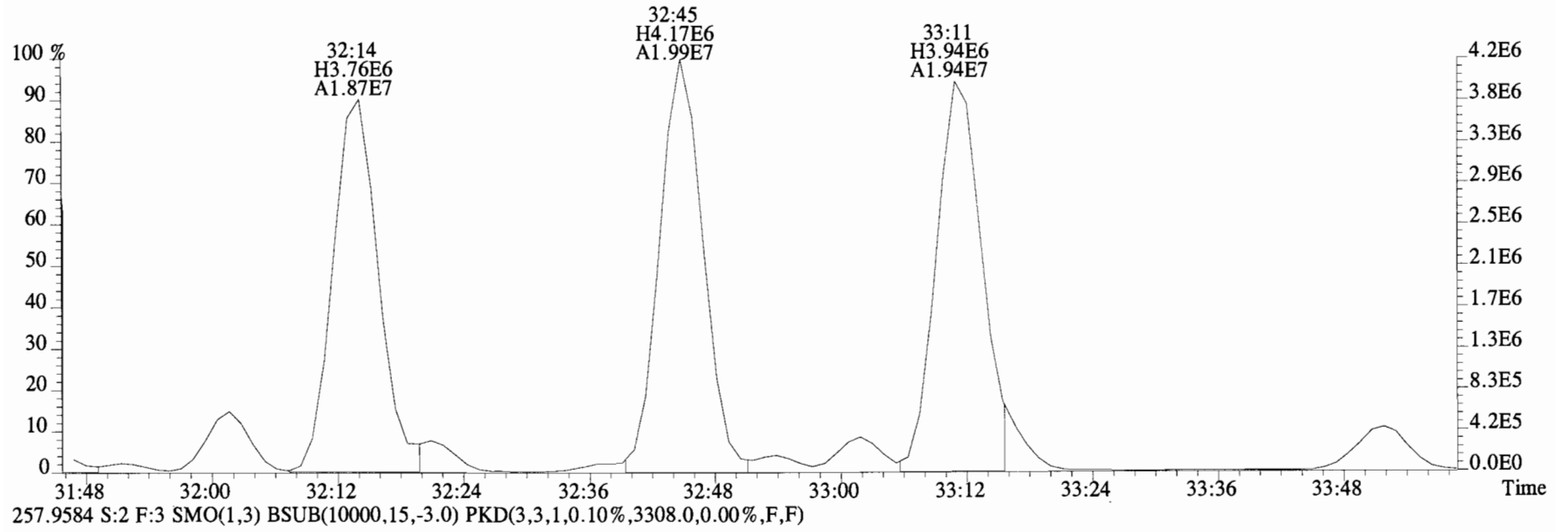
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Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
255.9613 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5648.0,0.00%,F,F)



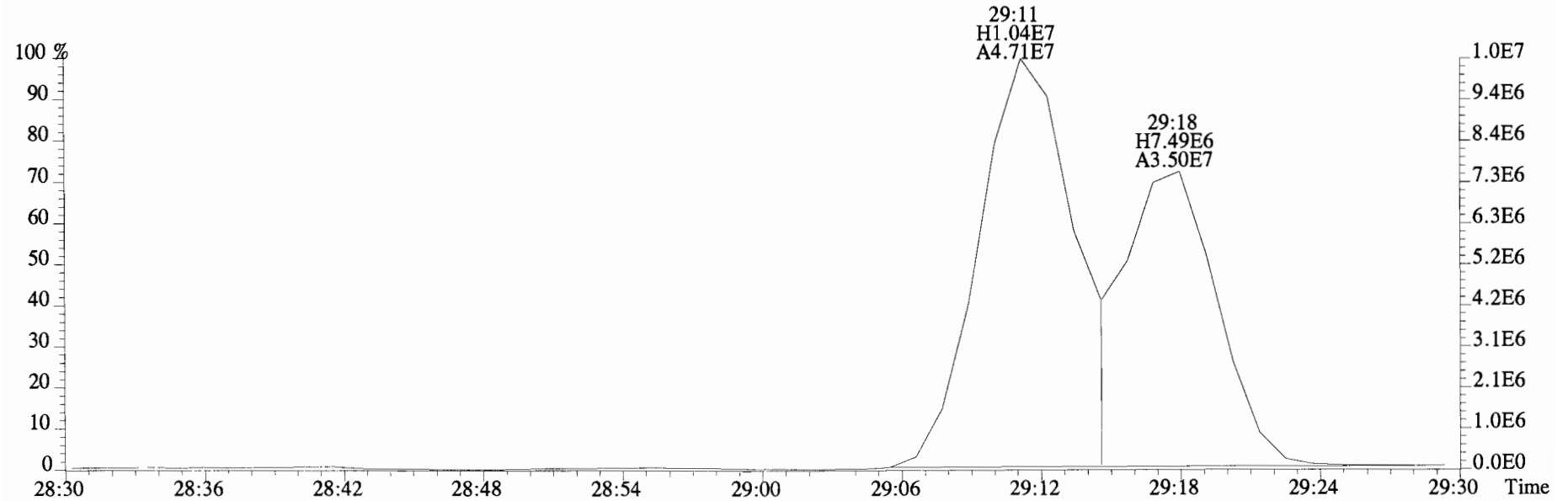
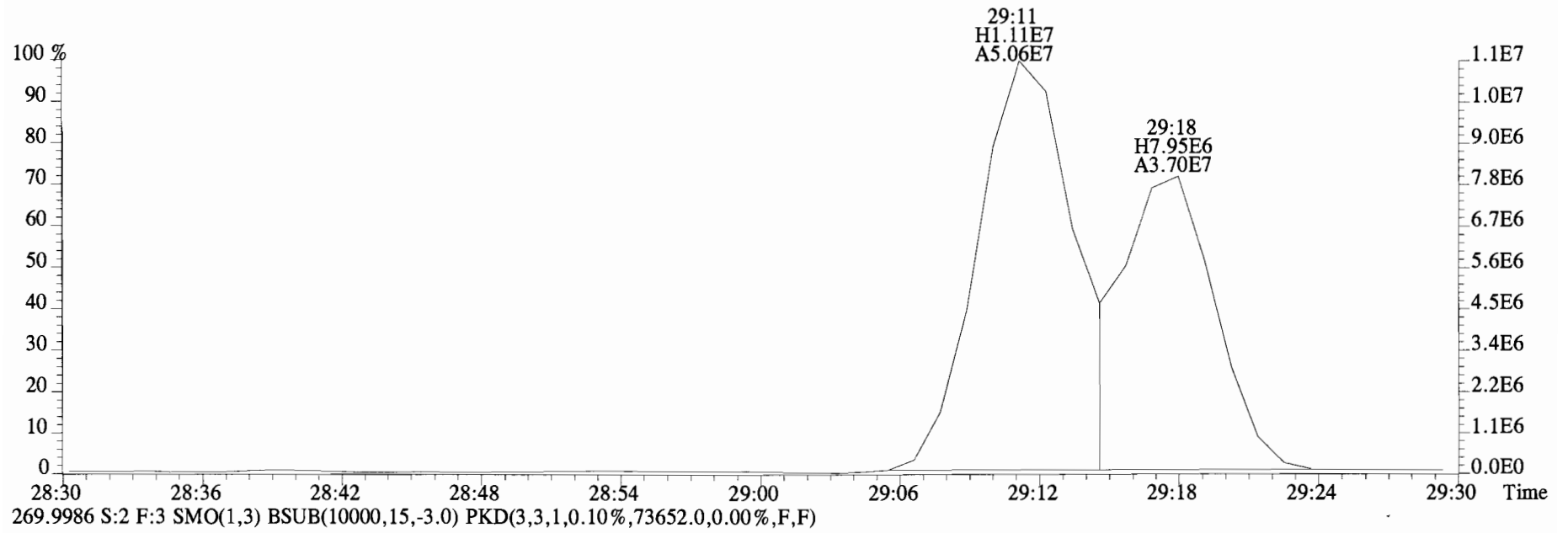
File:140919E1 #1-769 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B410047-BS1 OPR 1 Exp:PCB_ZB1
 255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5704.0,0.00%,F,F)



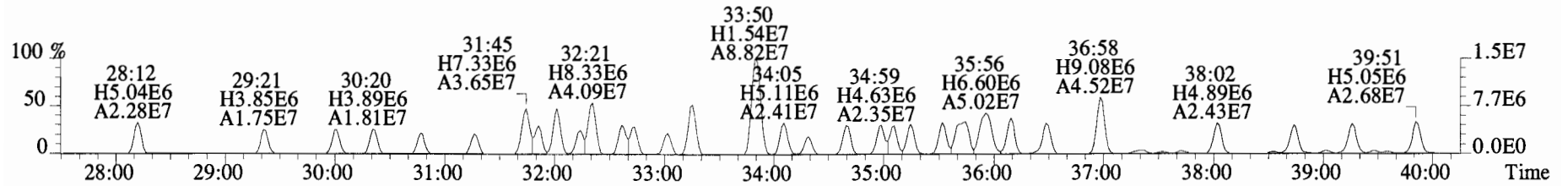
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Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
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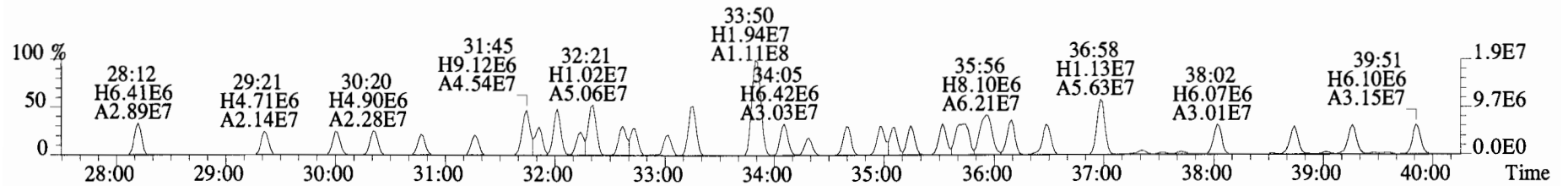
File:140919E1 #1-769 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
268.0016 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,75632.0,0.00%,F,F)



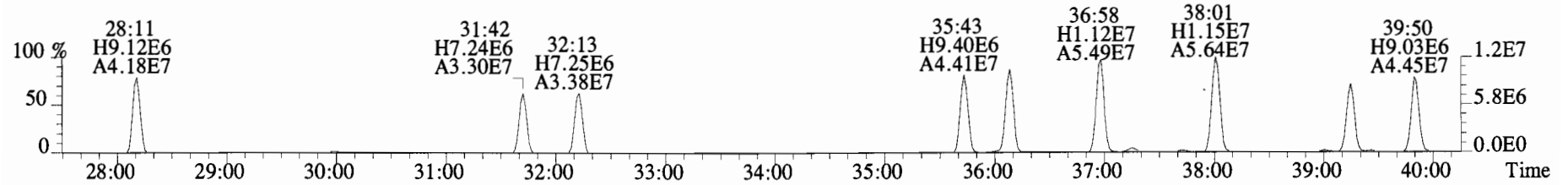
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Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10372.0,0.00%,F,F)



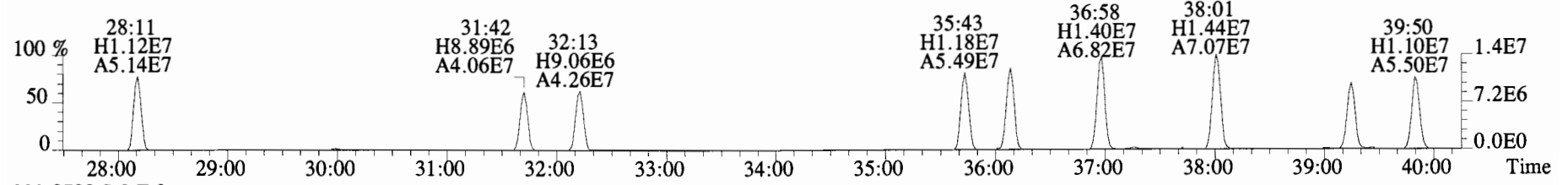
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12120.0,0.00%,F,F)



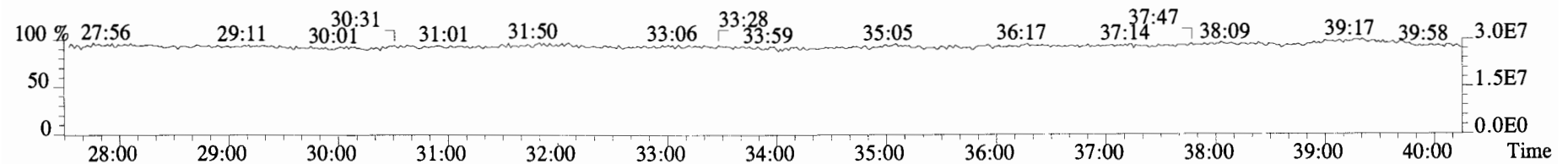
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10260.0,0.00%,F,F)



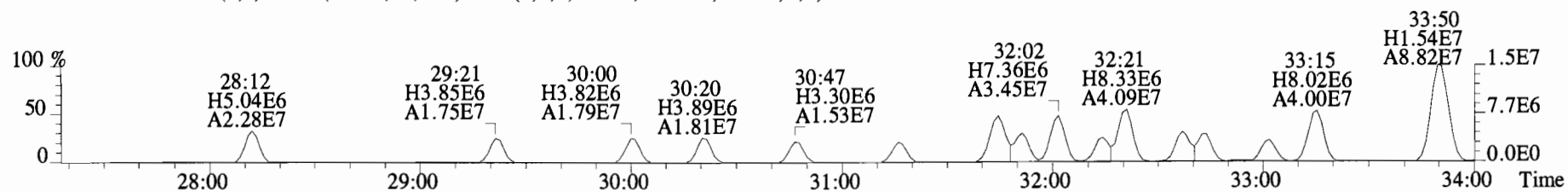
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6812.0,0.00%,F,F)



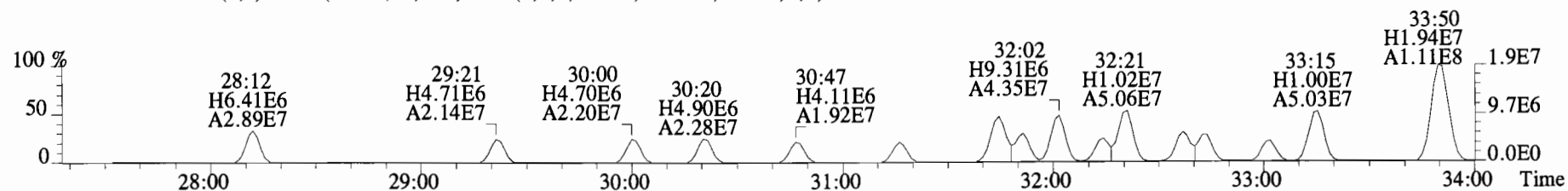
330.9792 S:2 F:3



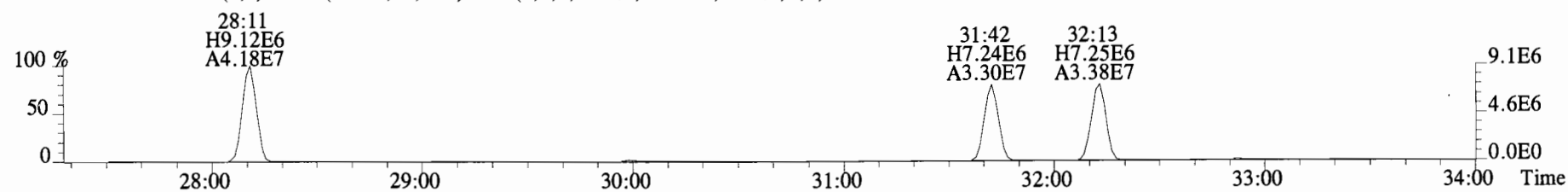
File:140919E1 #1-769 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10372.0,0.00%,F,F)



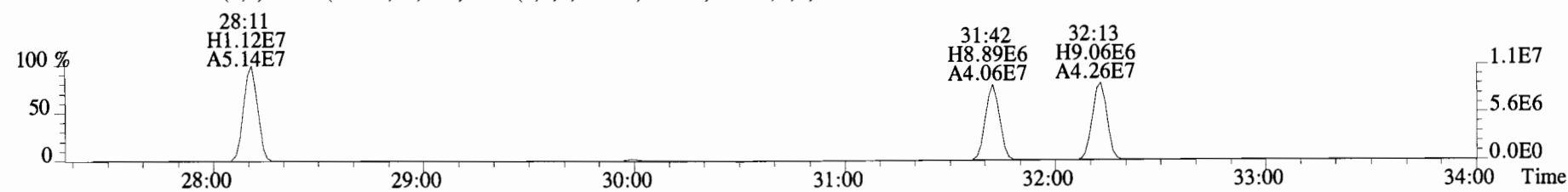
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12120.0,0.00%,F,F)



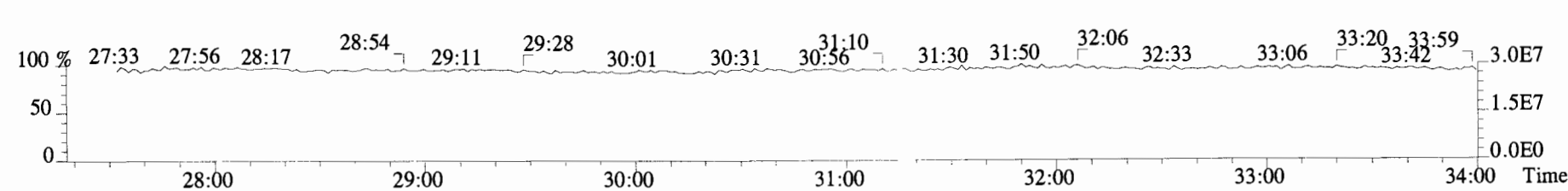
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10260.0,0.00%,F,F)



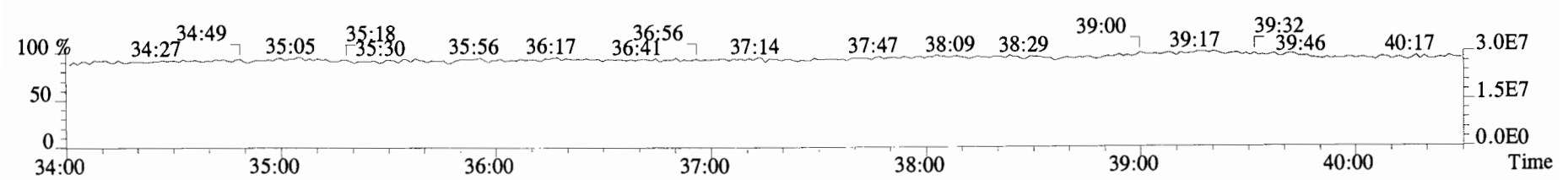
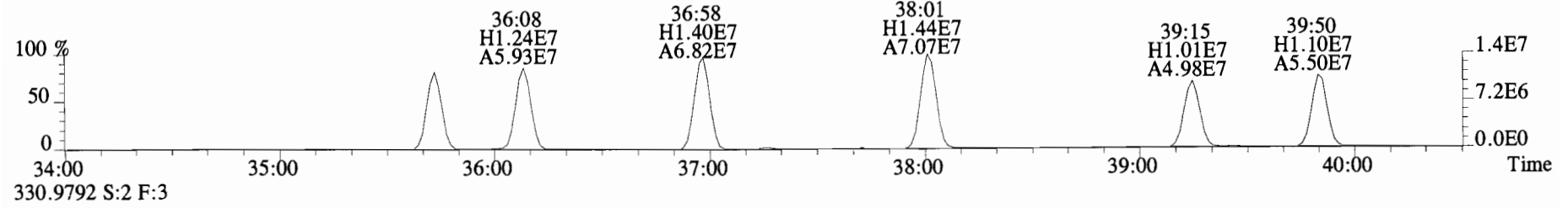
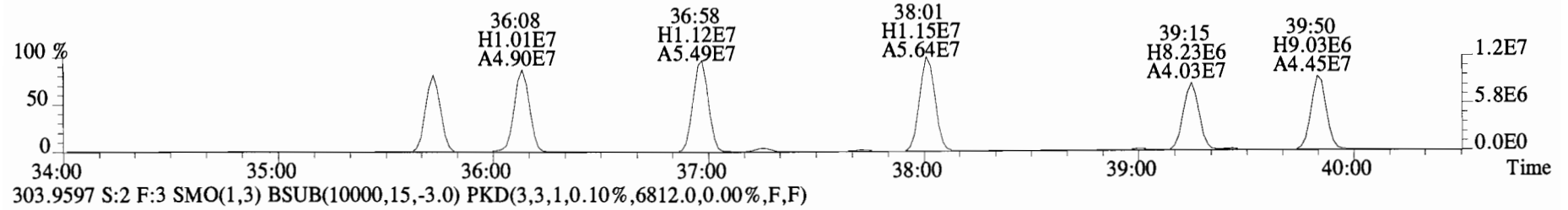
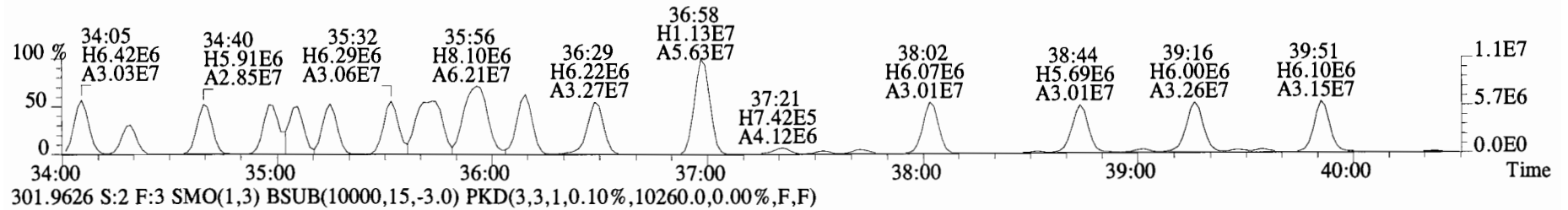
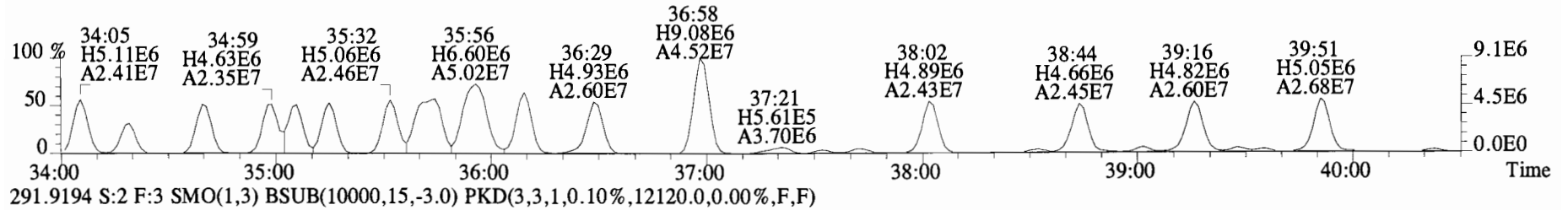
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6812.0,0.00%,F,F)



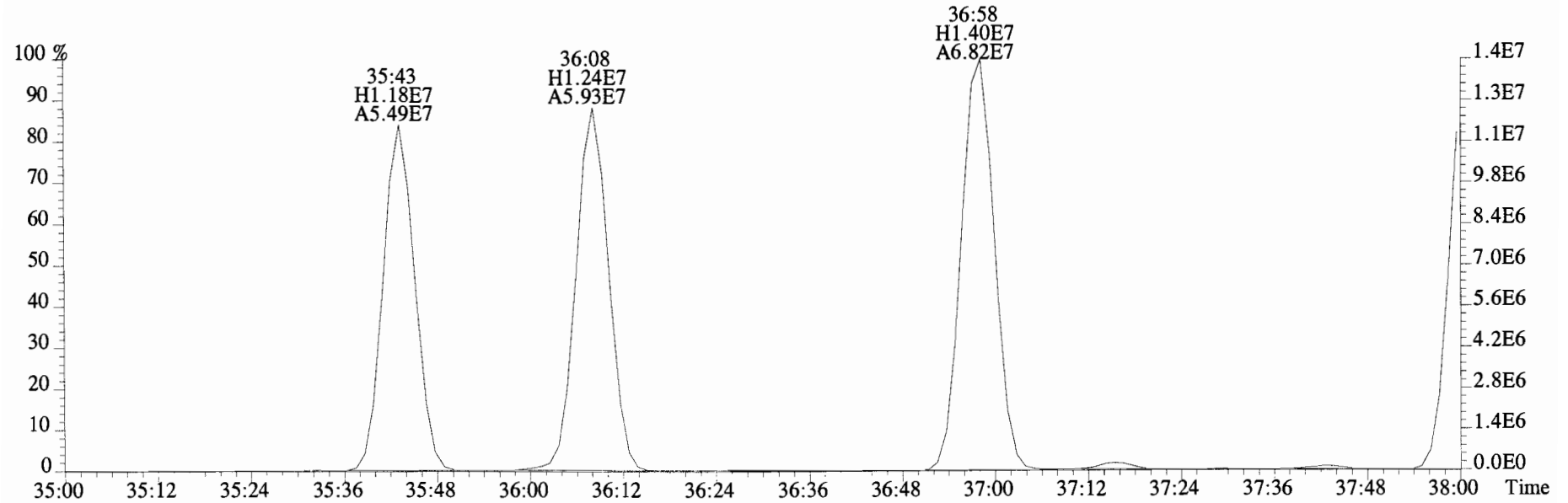
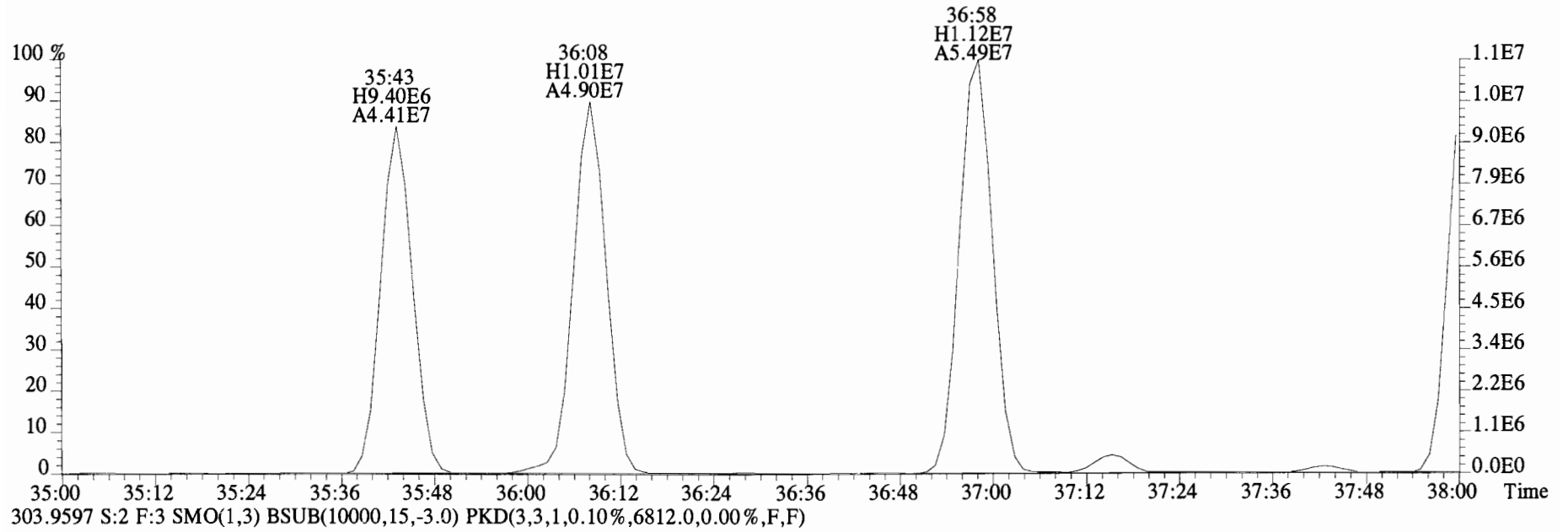
330.9792 S:2 F:3



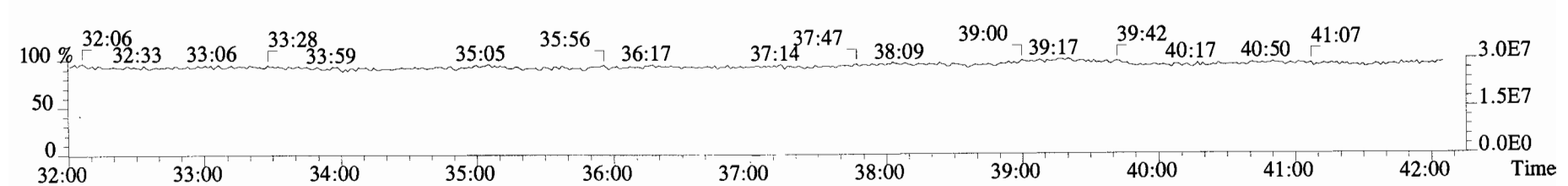
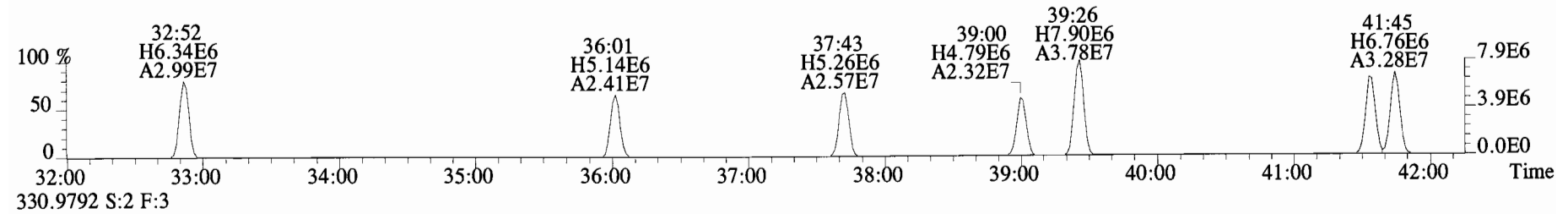
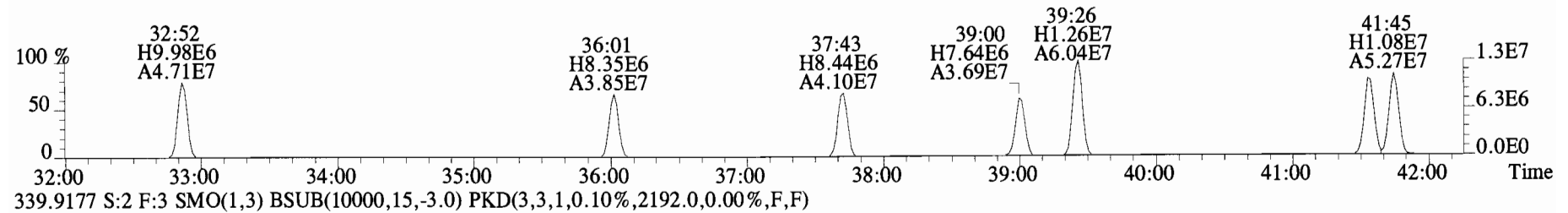
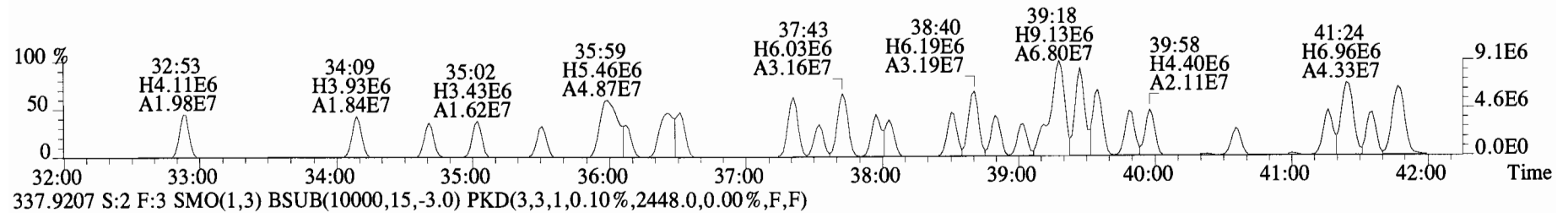
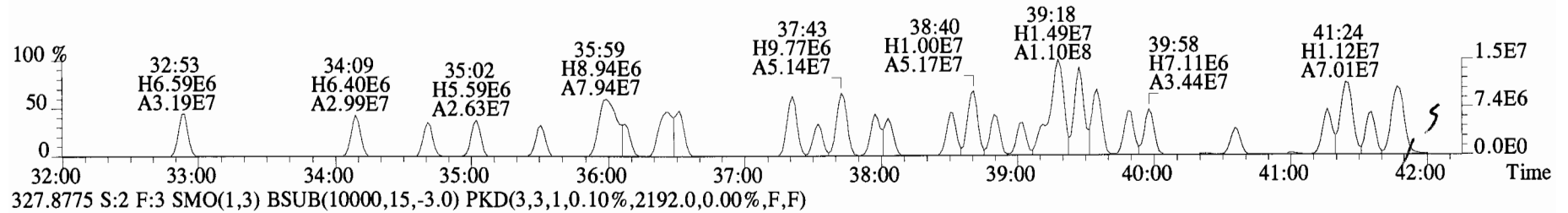
File:140919E1 #1-769 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10372.0,0.00%,F,F)



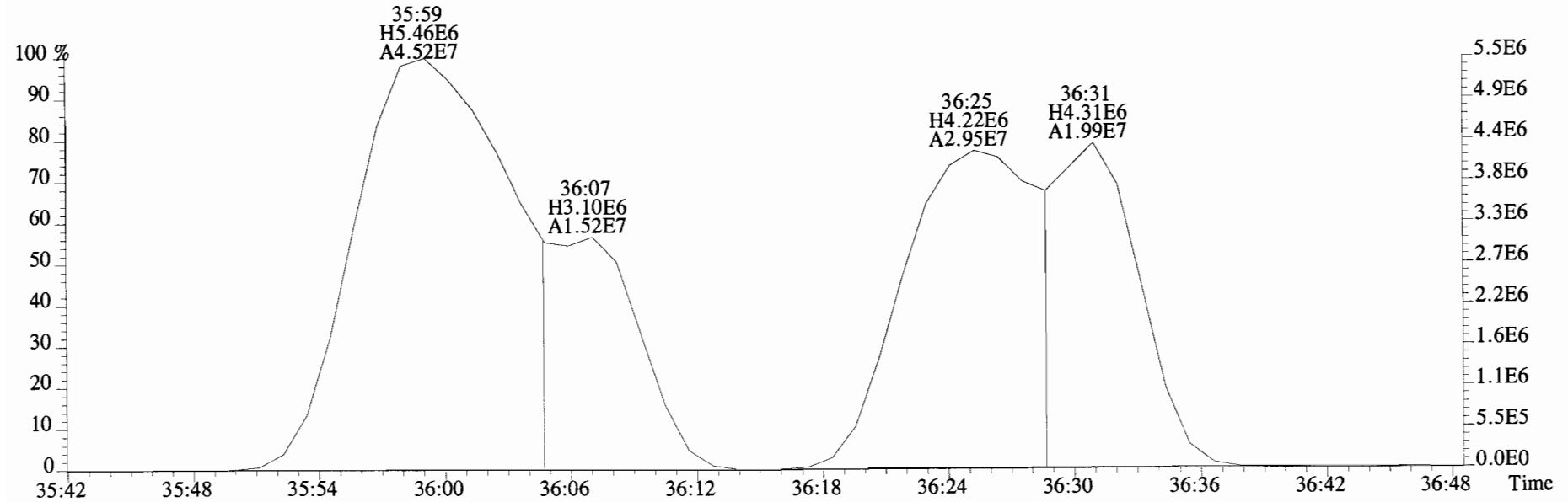
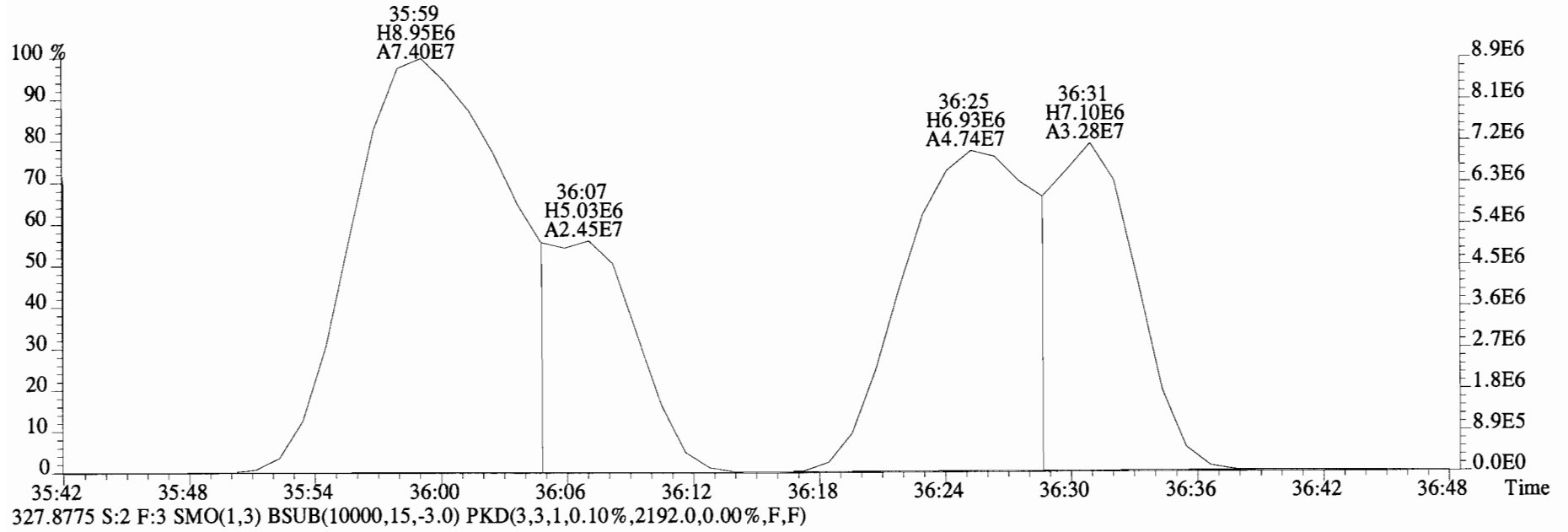
File:140919E1 #1-769 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text: B4I0047-BS1 OPR 1 Exp: PCB_ZB1
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10260.0,0.00%,F,F)



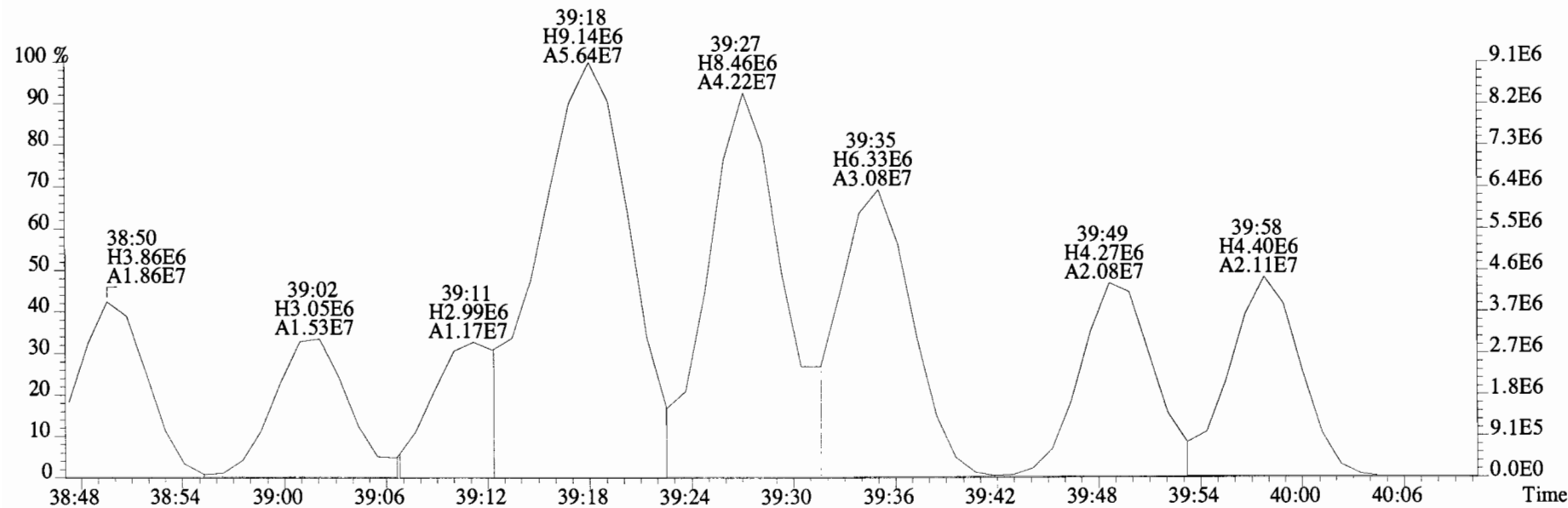
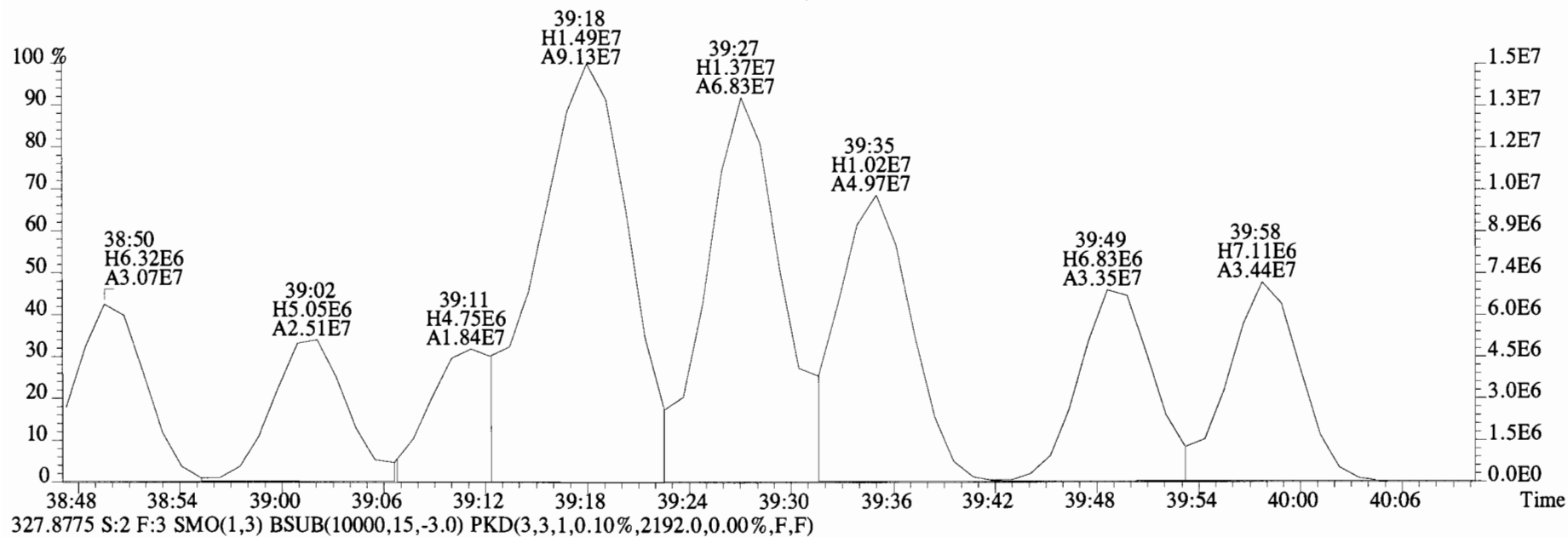
File:140919E1 #1-769 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2568.0,0.00%,F,F)



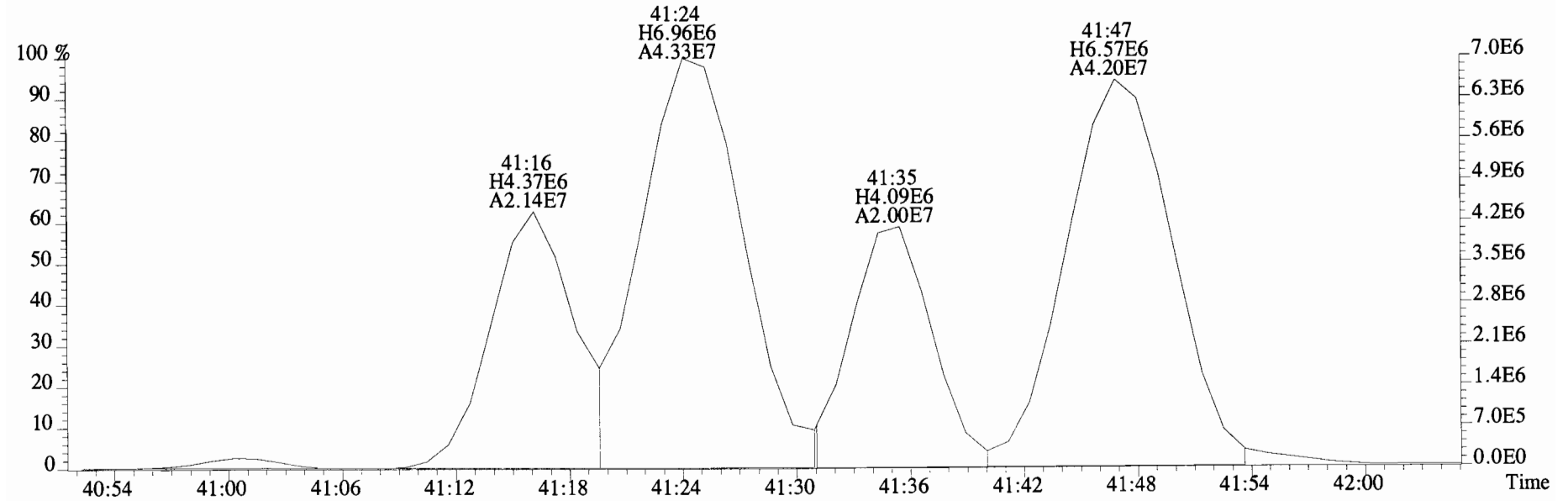
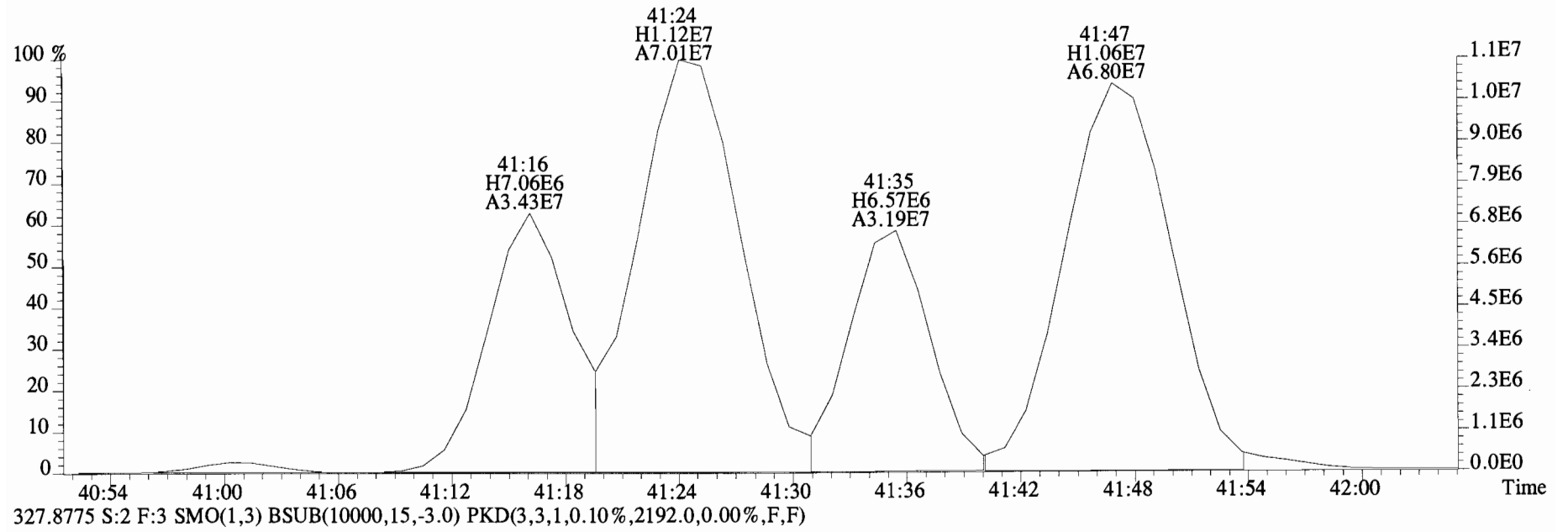
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 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B410047-BS1 OPR 1 Exp:PCB_ZB1
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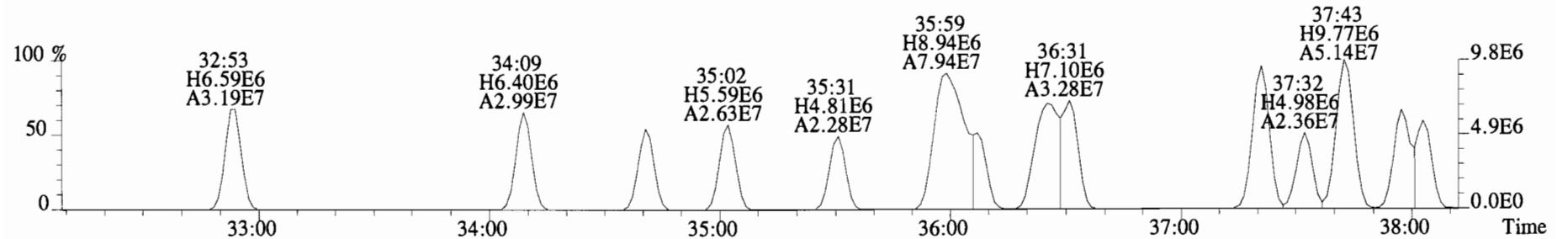
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 Sample#2 File Text: Vista Analytical Laboratory VG-8 Text: B4I0047-BS1 OPR 1 Exp: PCB_ZB1
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2568.0,0.00%,F,F)



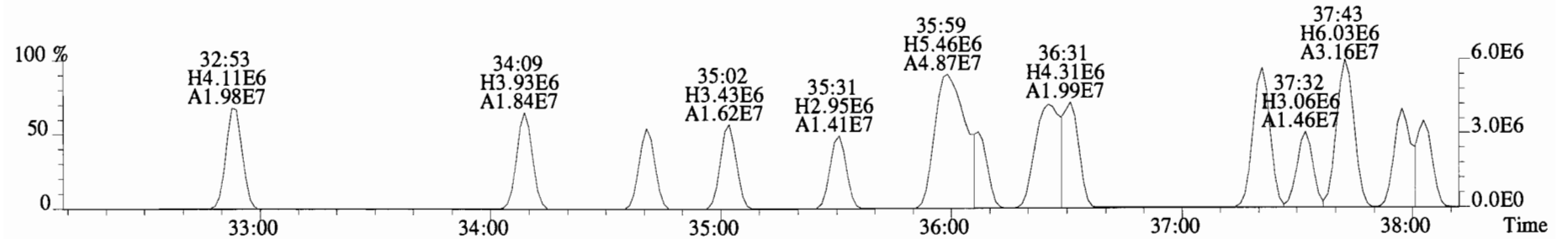
File:140919E1 #1-769 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2568.0,0.00%,F,F)



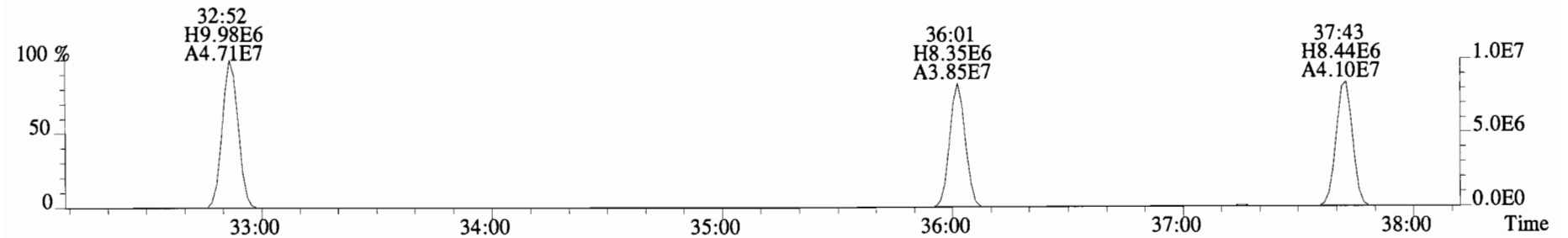
File:140919E1 #1-769 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2568.0,0.00%,F,F)



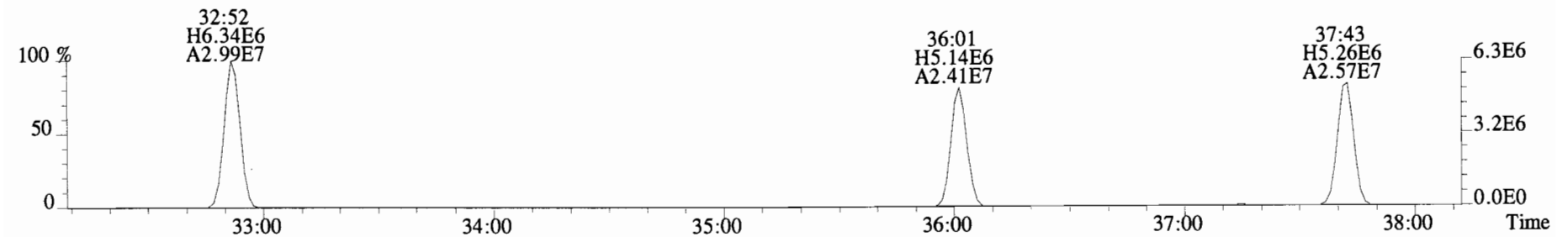
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2192.0,0.00%,F,F)



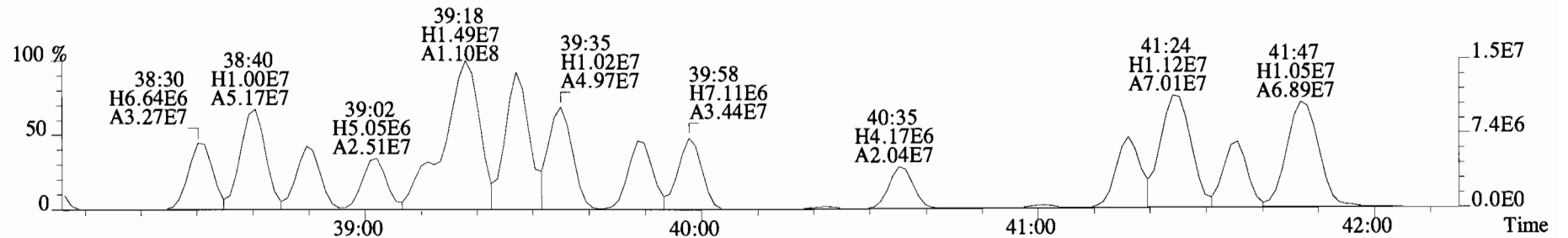
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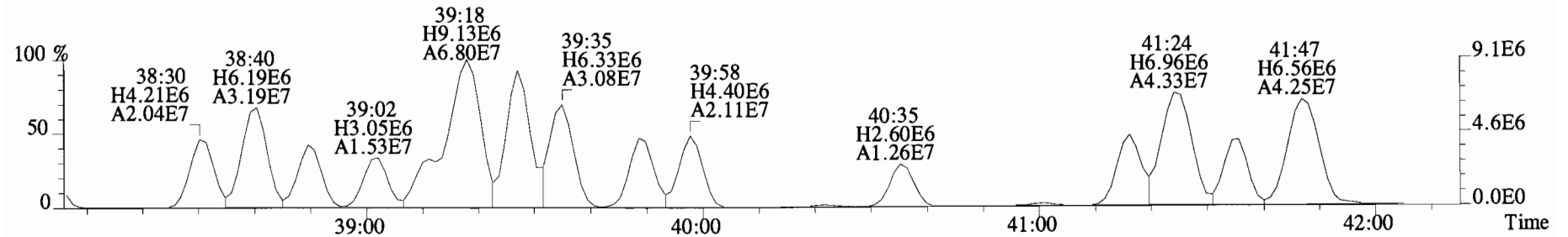
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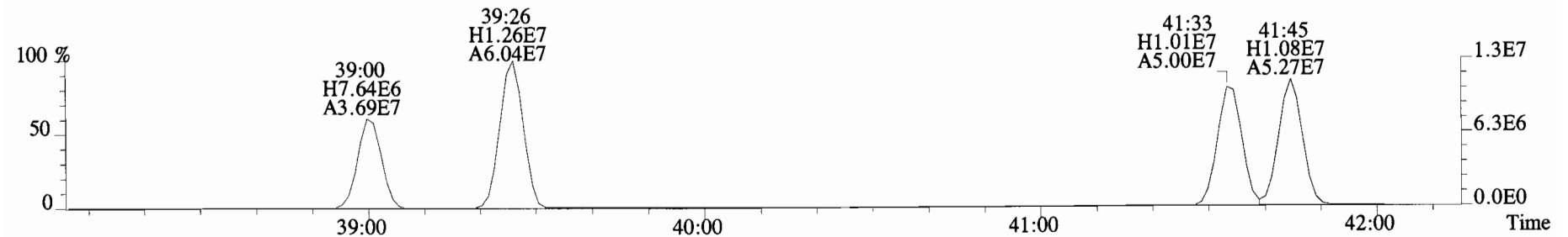
File:140919E1 #1-769 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2568.0,0.00%,F,F)



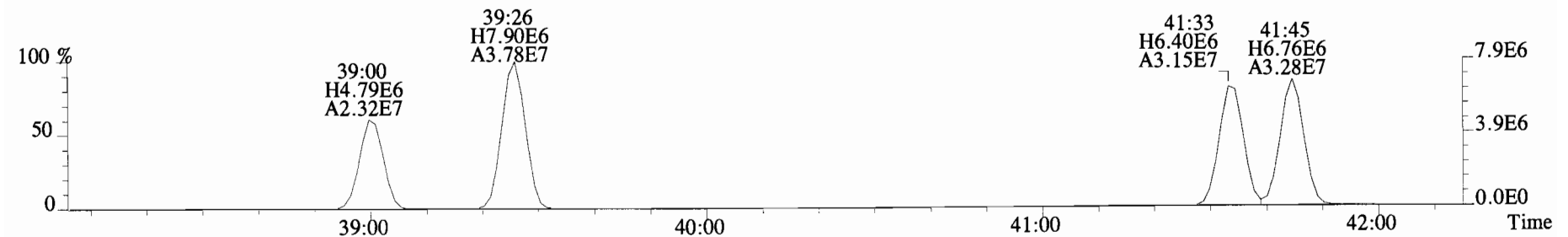
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2192.0,0.00%,F,F)



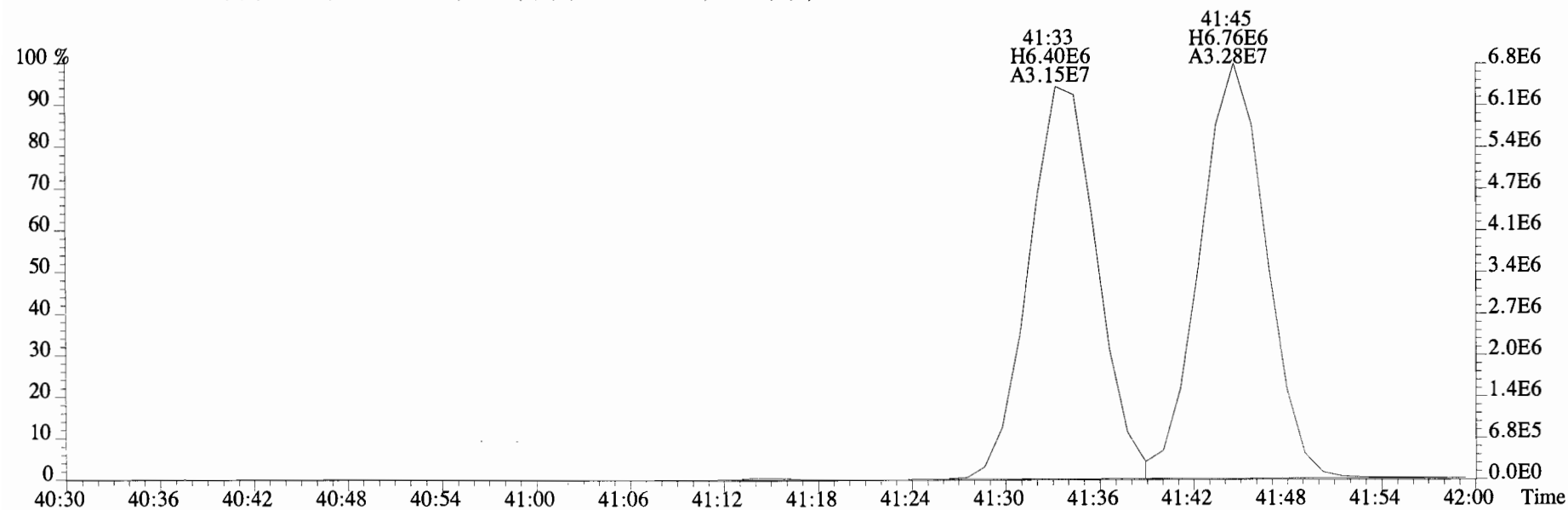
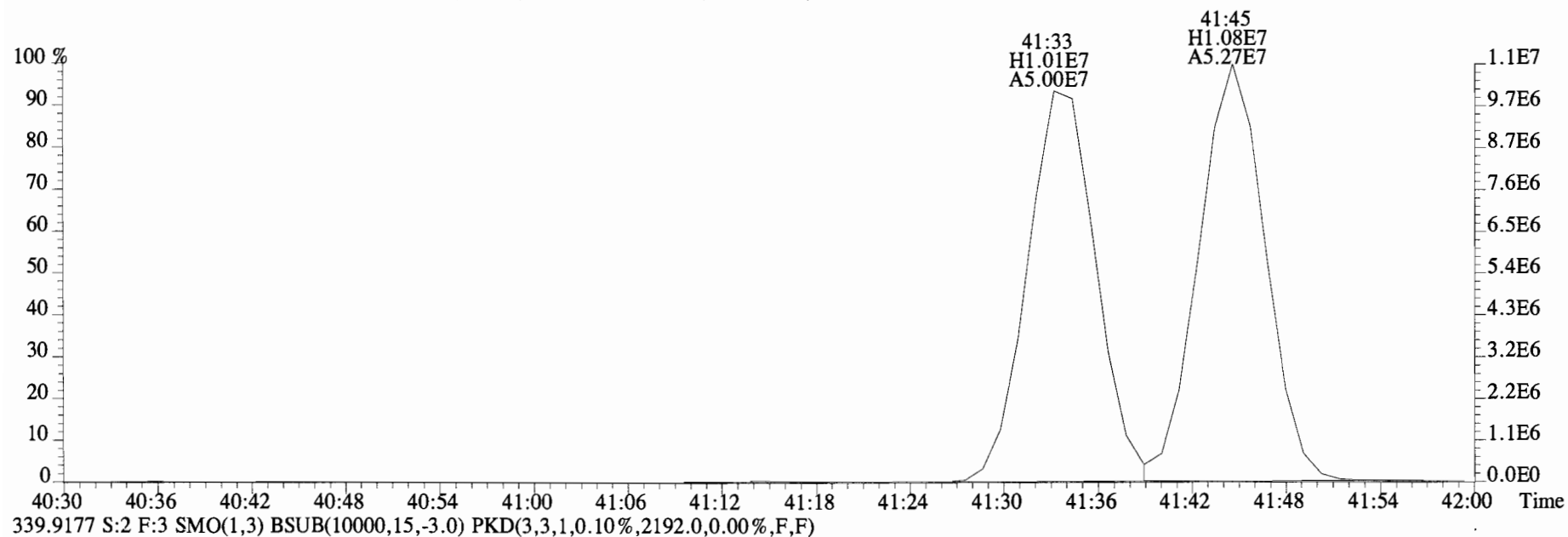
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2448.0,0.00%,F,F)



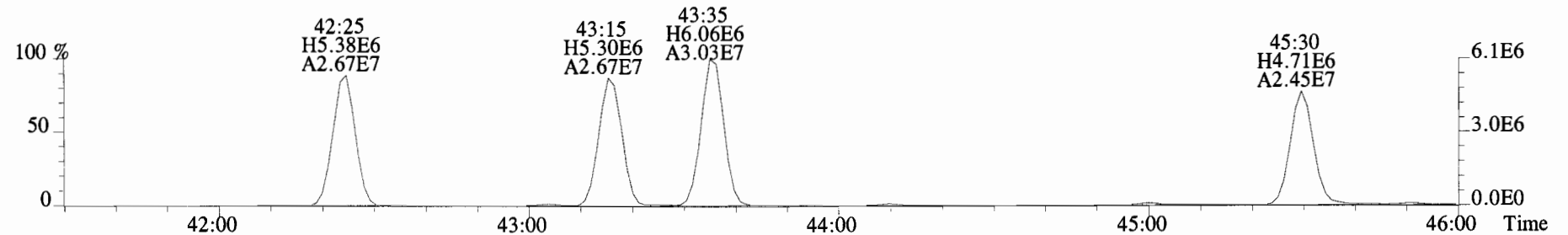
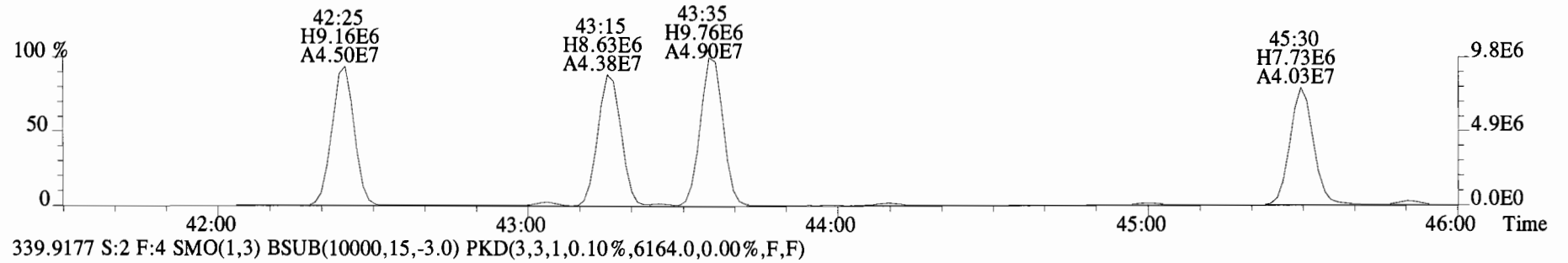
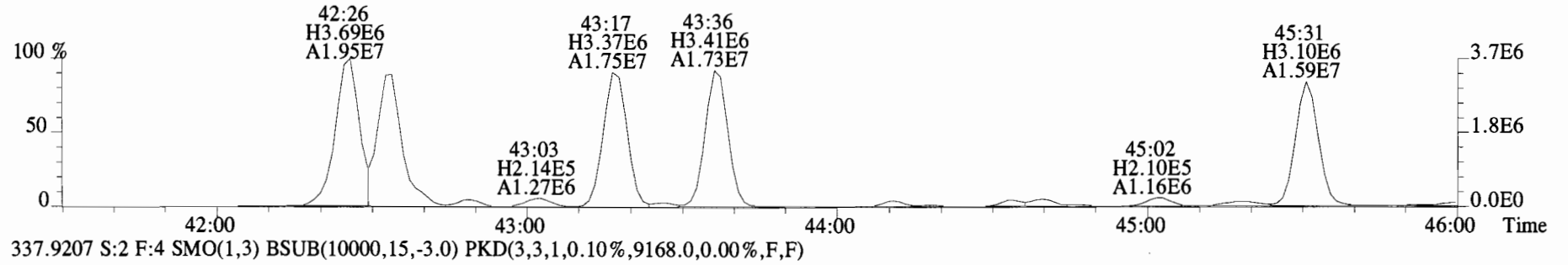
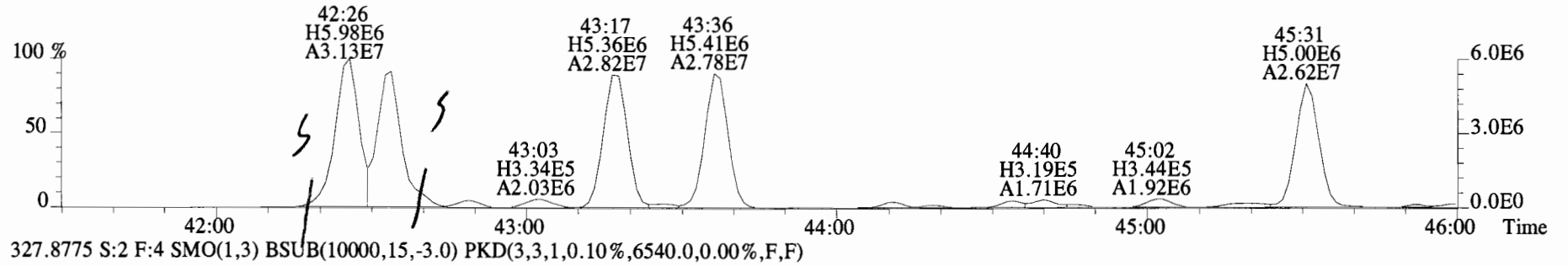
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2192.0,0.00%,F,F)



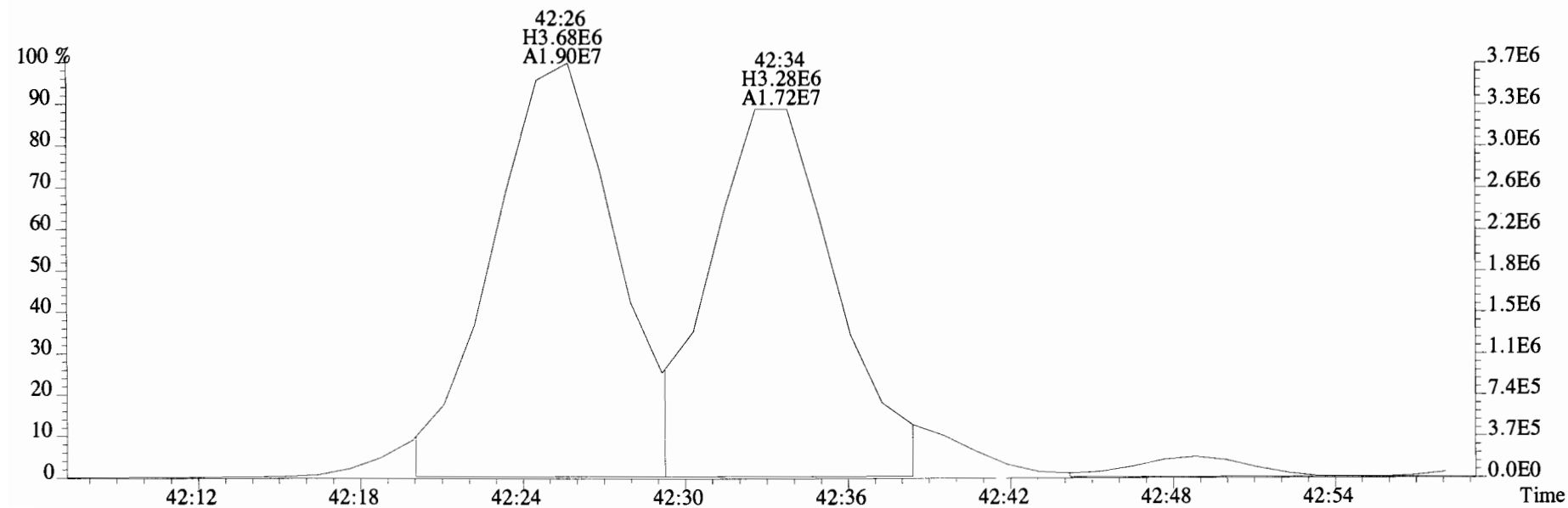
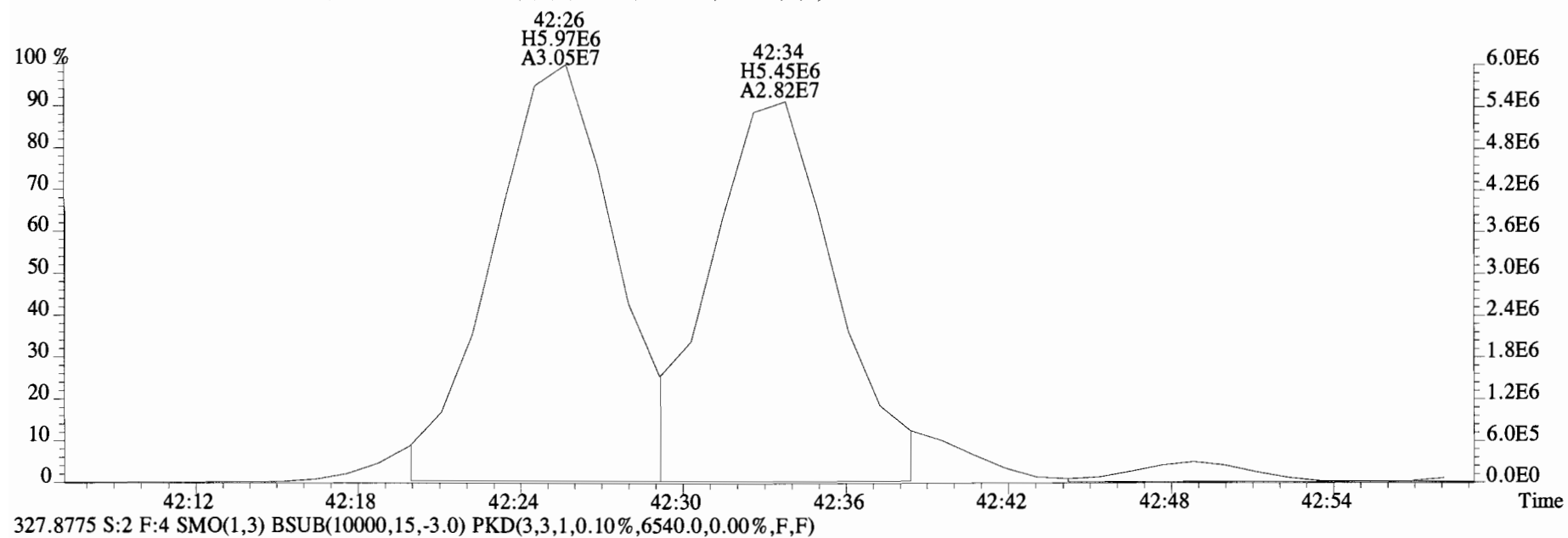
File:140919E1 #1-769 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2448.0,0.00%,F,F)



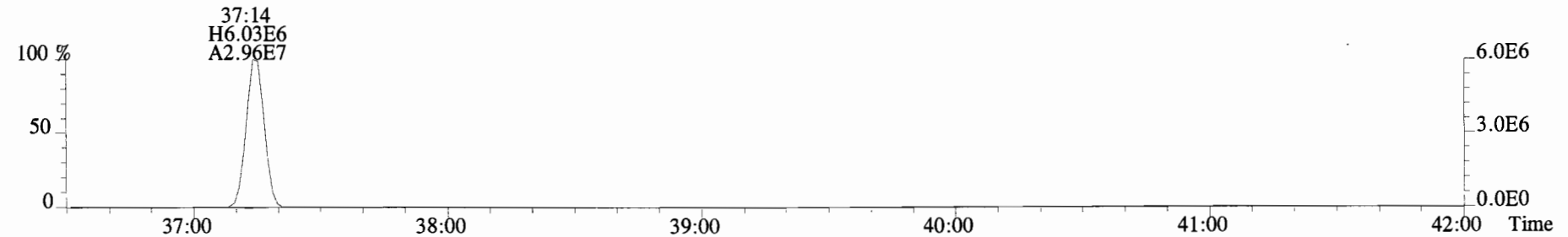
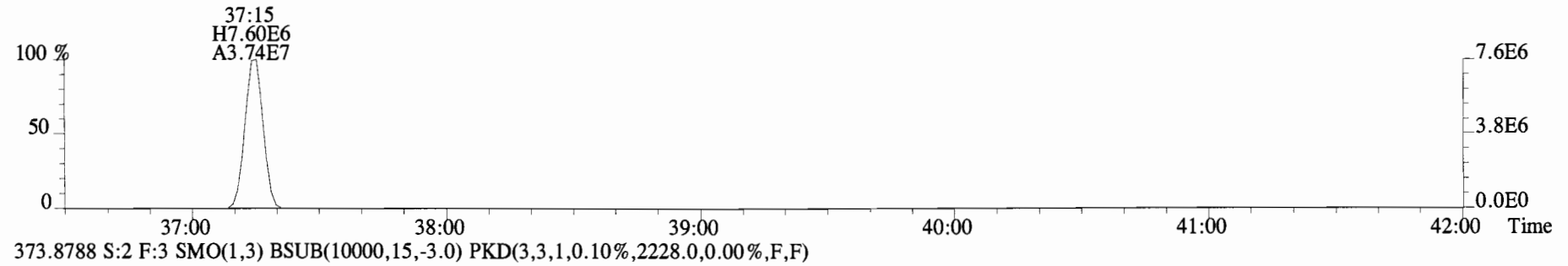
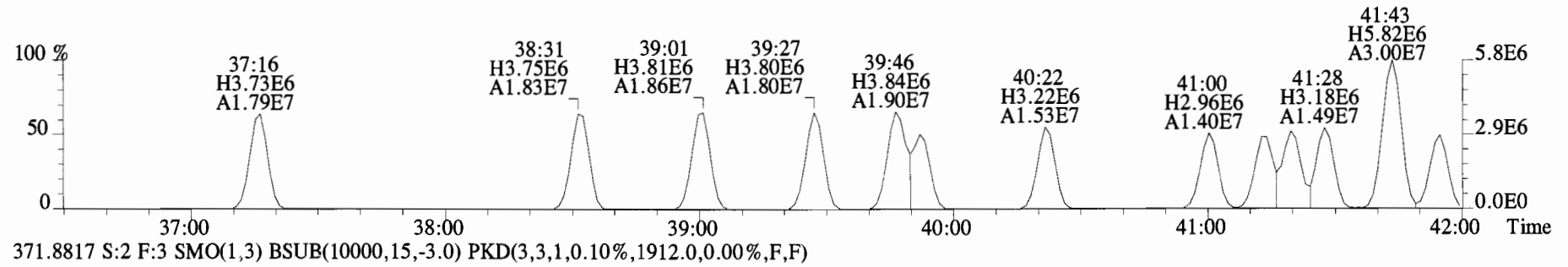
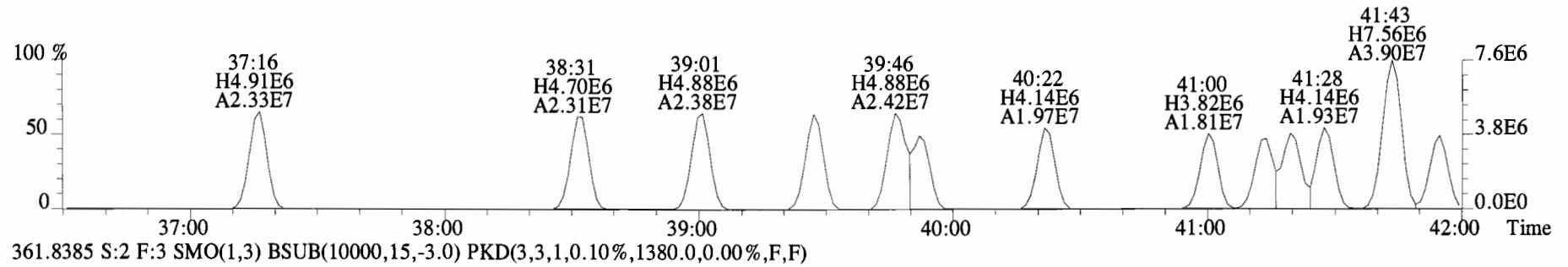
File:140919E1 #1-544 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
 325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12308.0,0.00%,F,F)



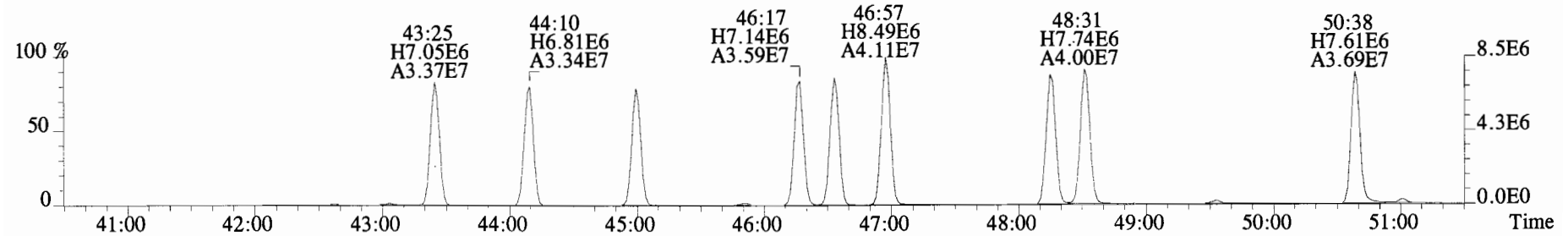
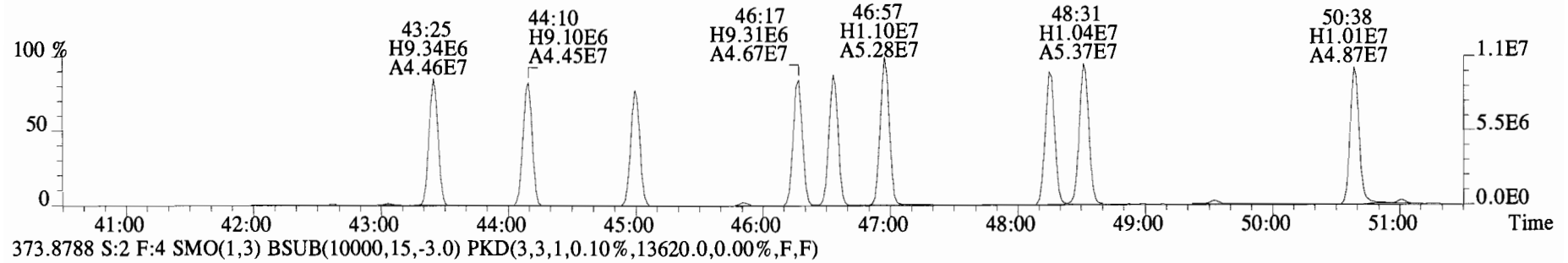
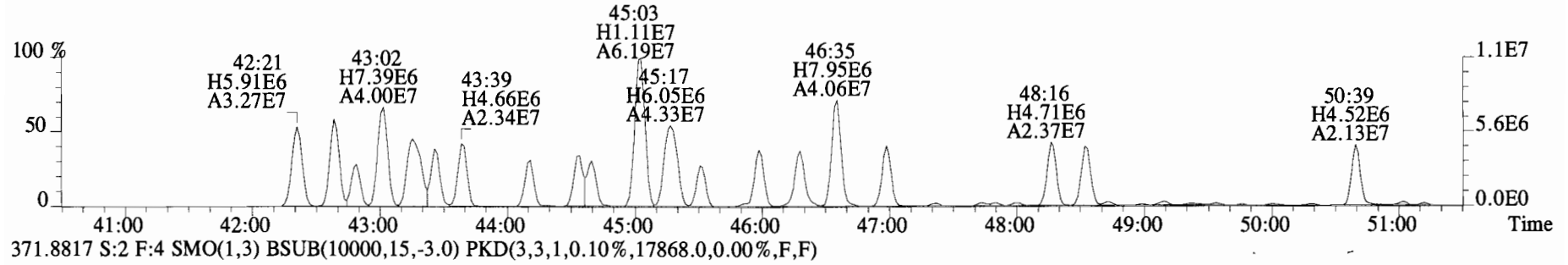
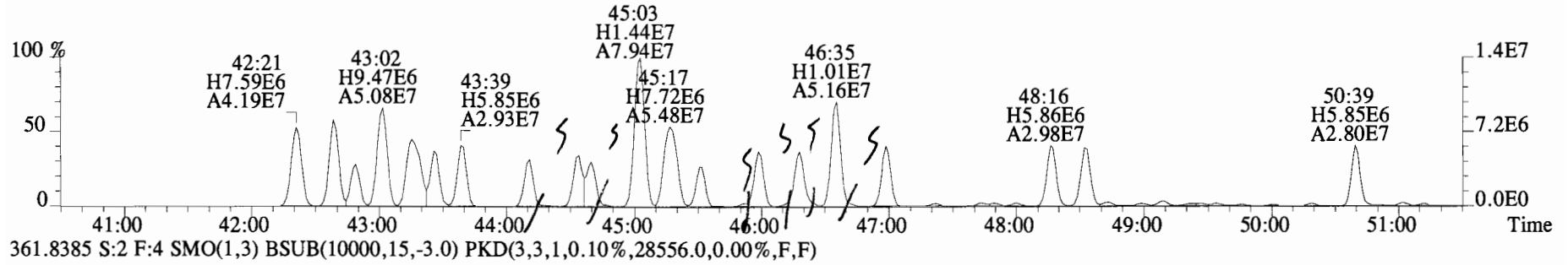
File:140919E1 #1-544 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12308.0,0.00%,F,F)



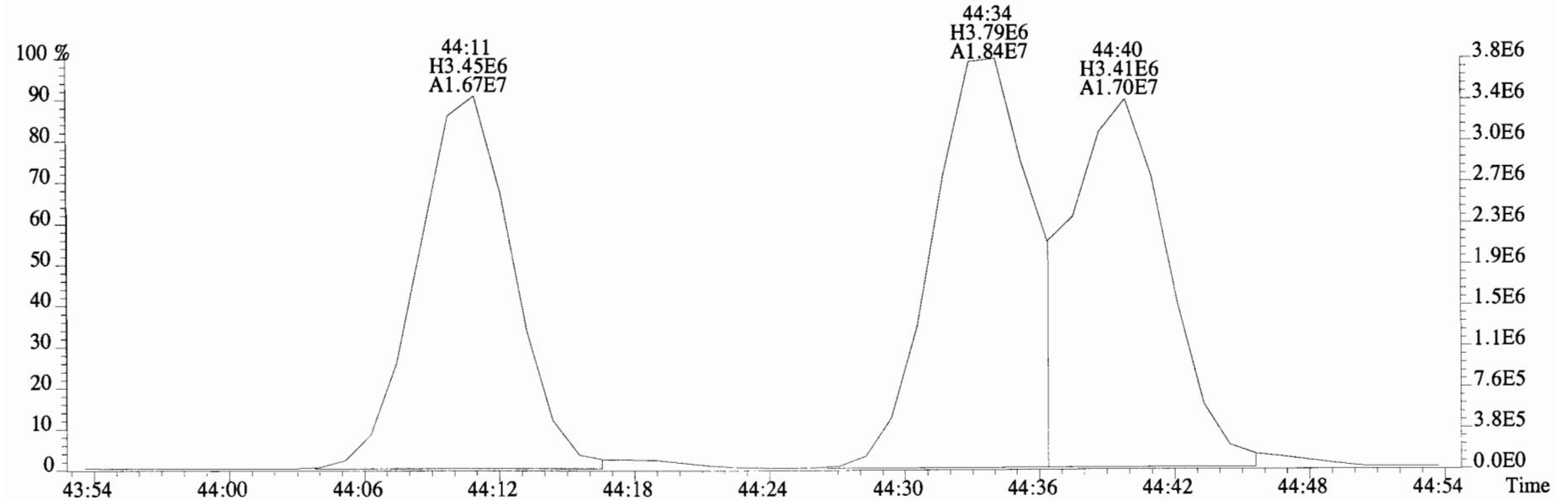
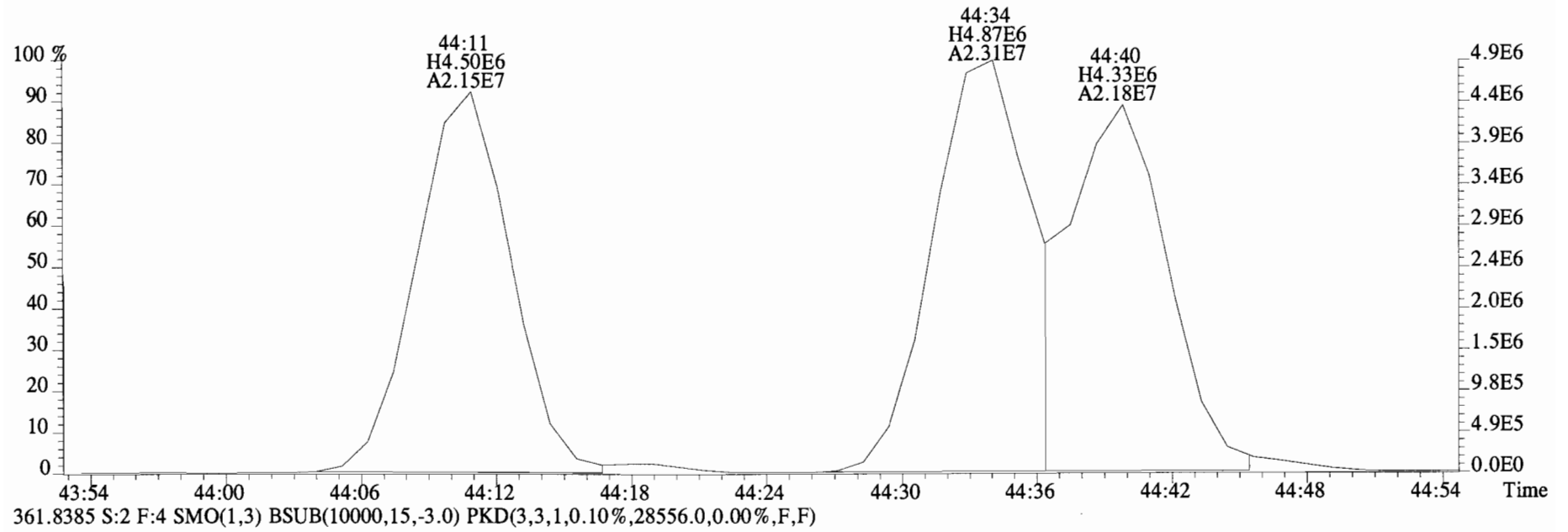
File:140919E1 #1-769 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1460.0,0.00%,F,F)



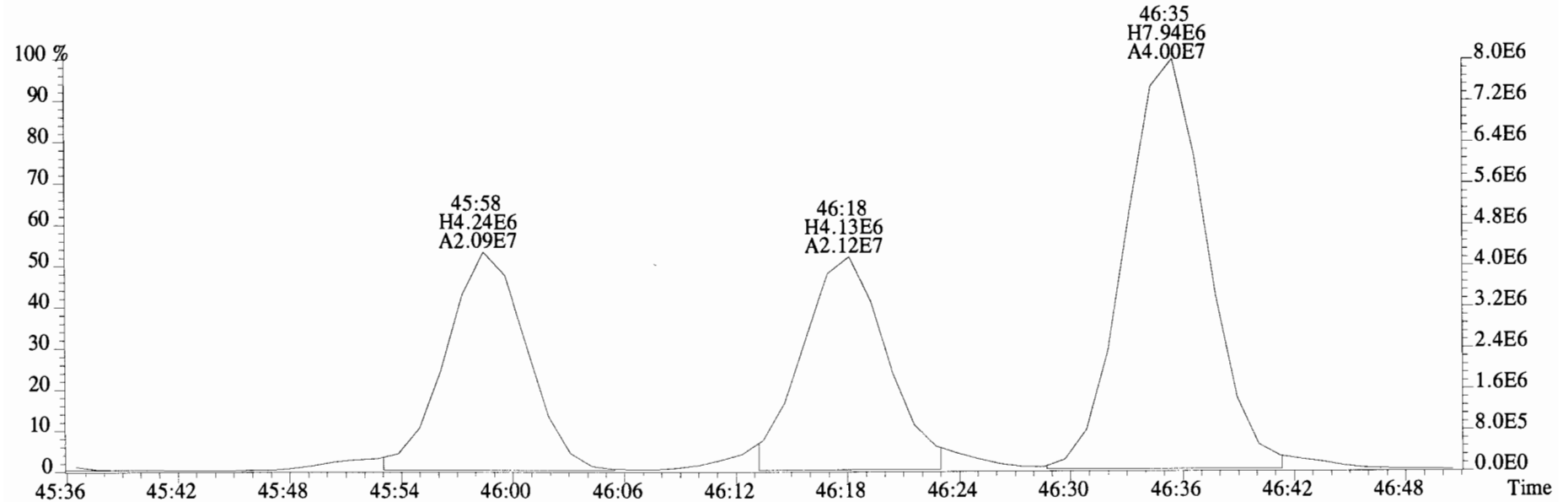
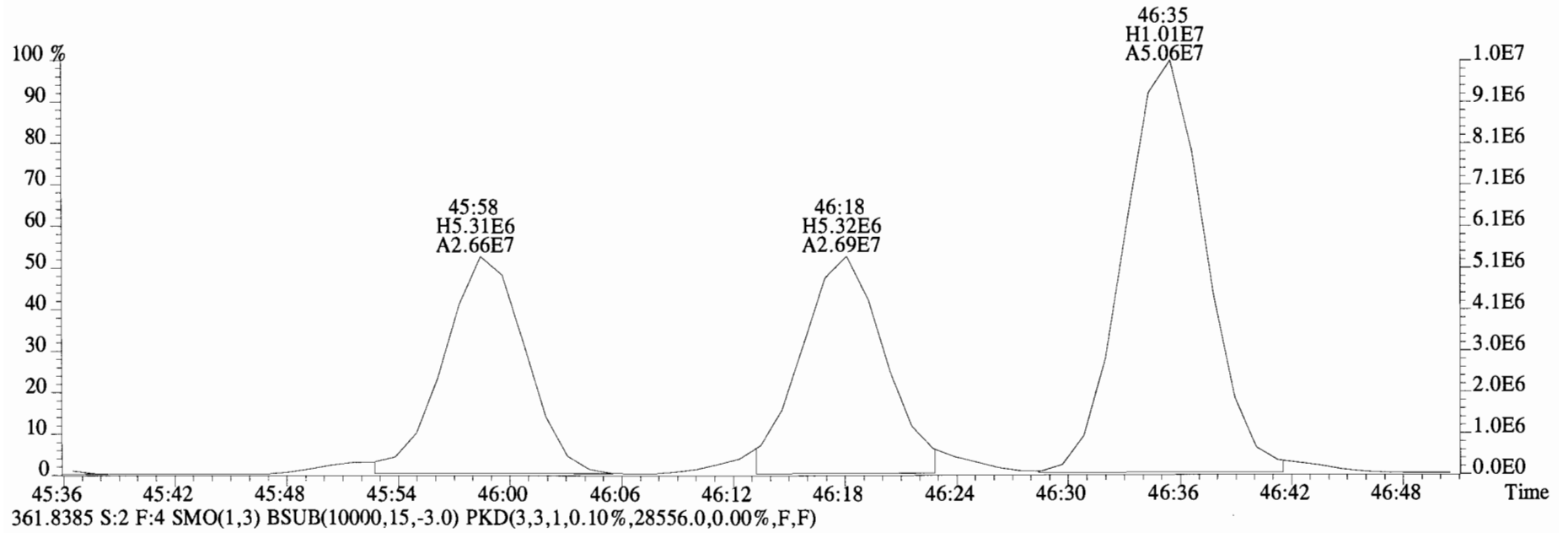
File:140919E1 #1-544 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B410047-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15832.0,0.00%,F,F)



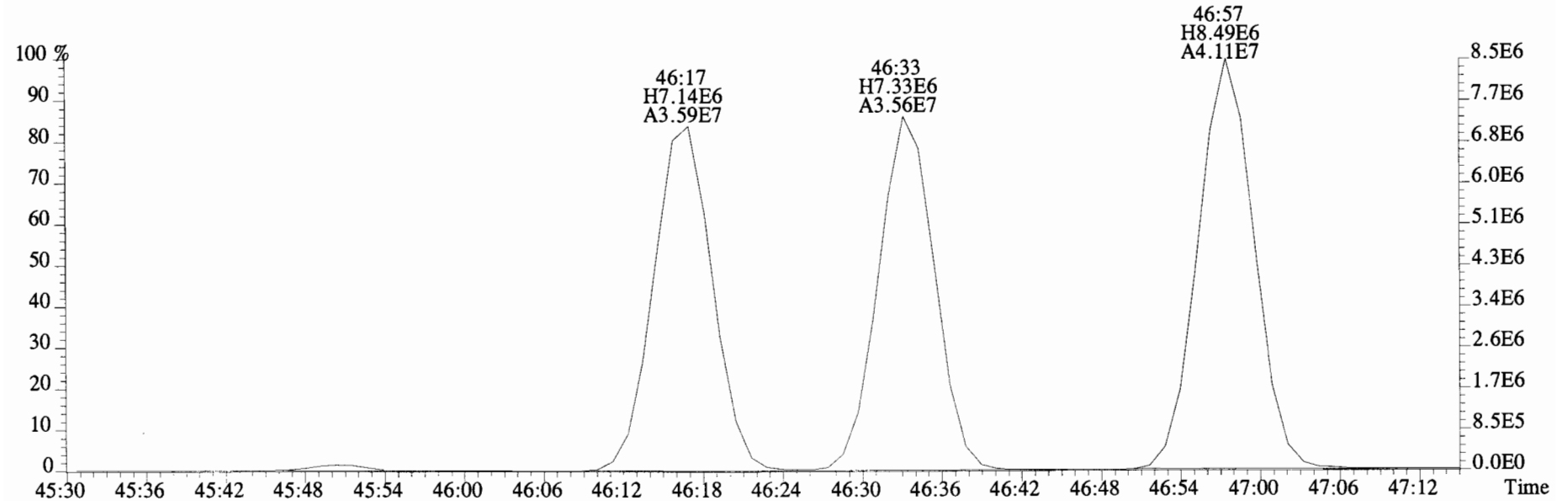
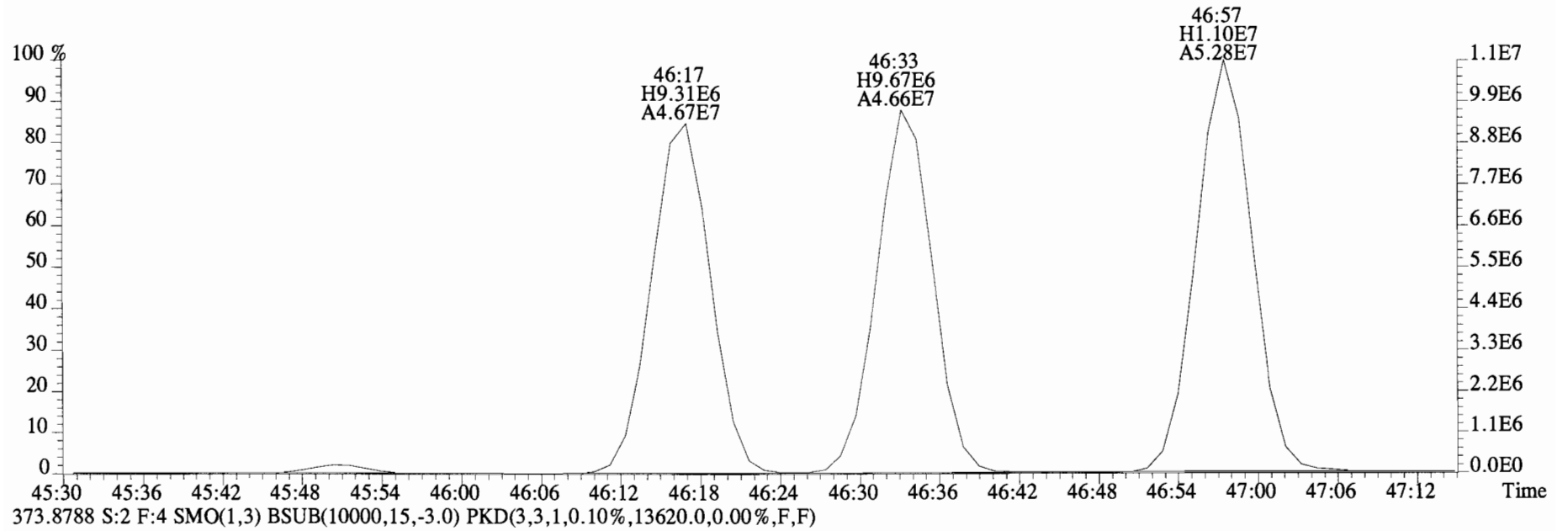
File:140919E1 #1-544 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15832.0,0.00%,F,F)



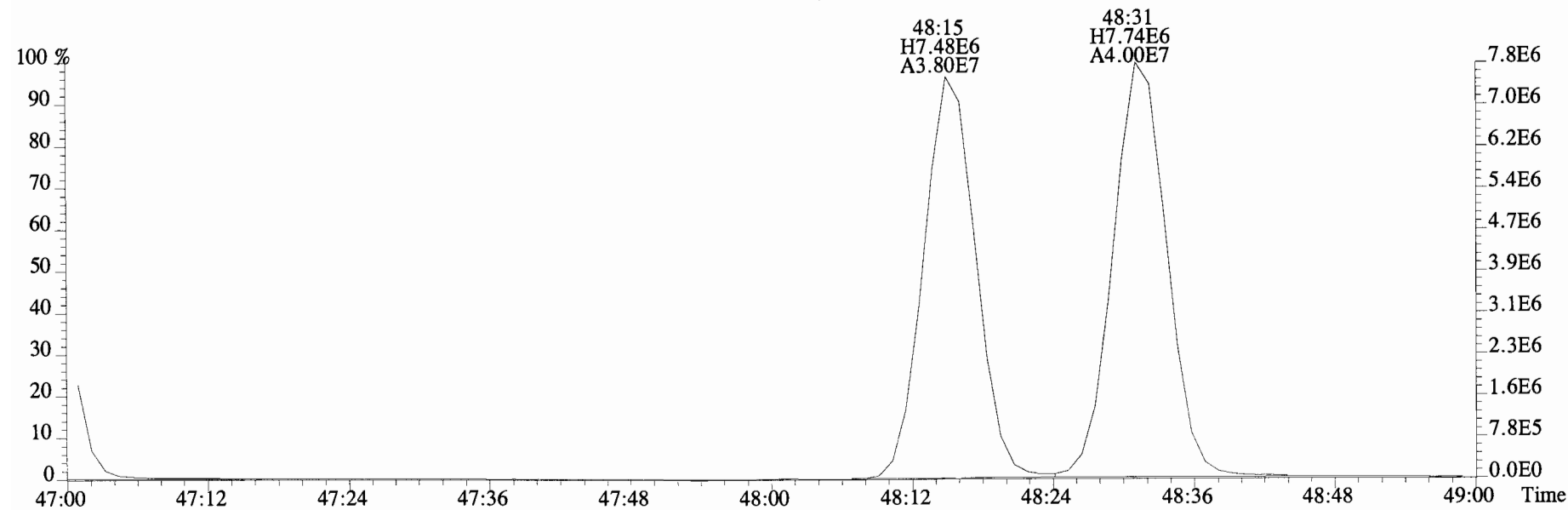
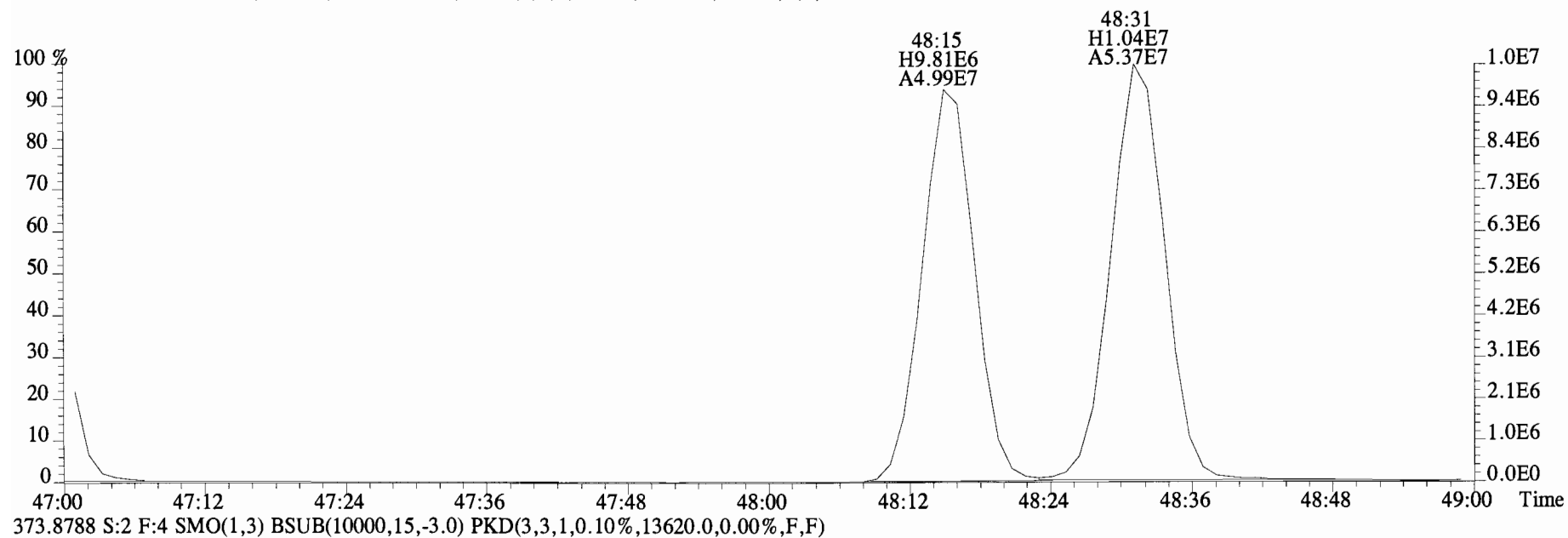
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Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15832.0,0.00%,F,F)



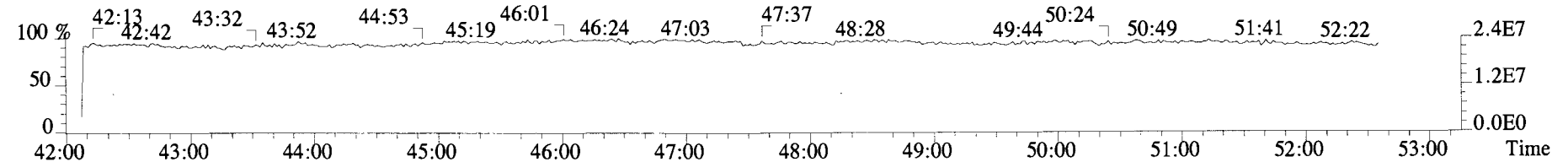
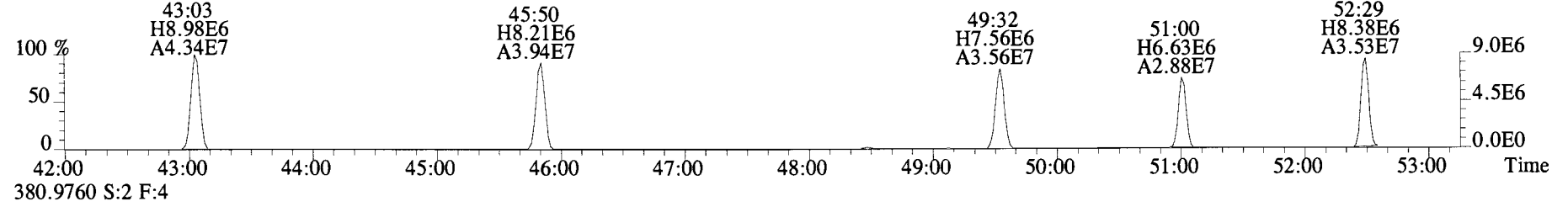
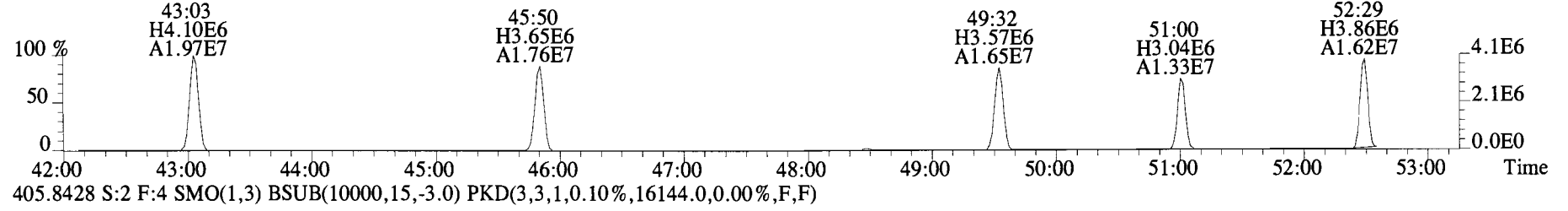
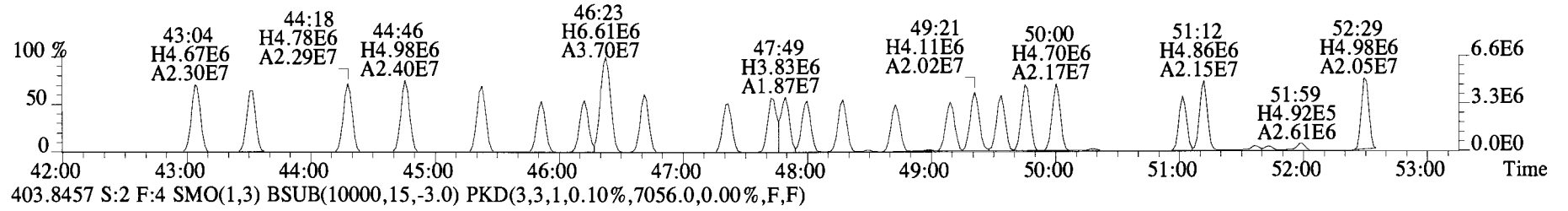
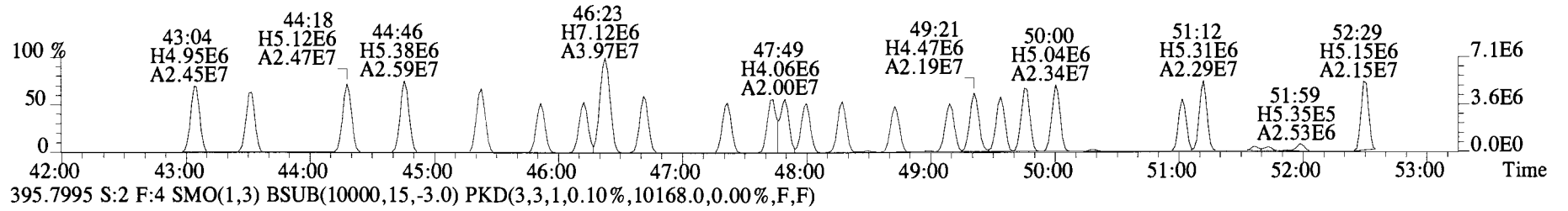
File:140919E1 #1-544 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17868.0,0.00%,F,F)



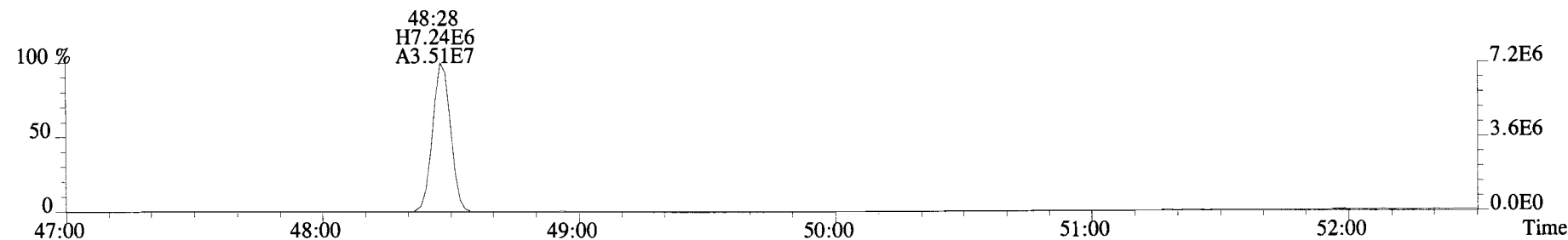
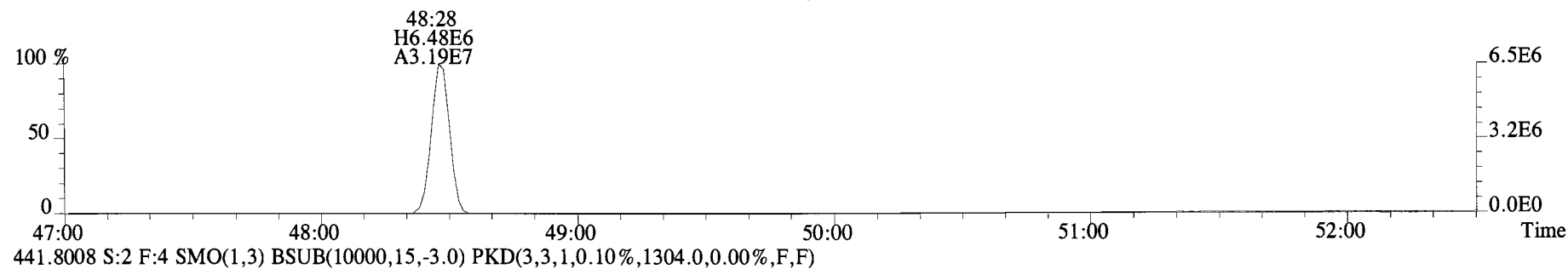
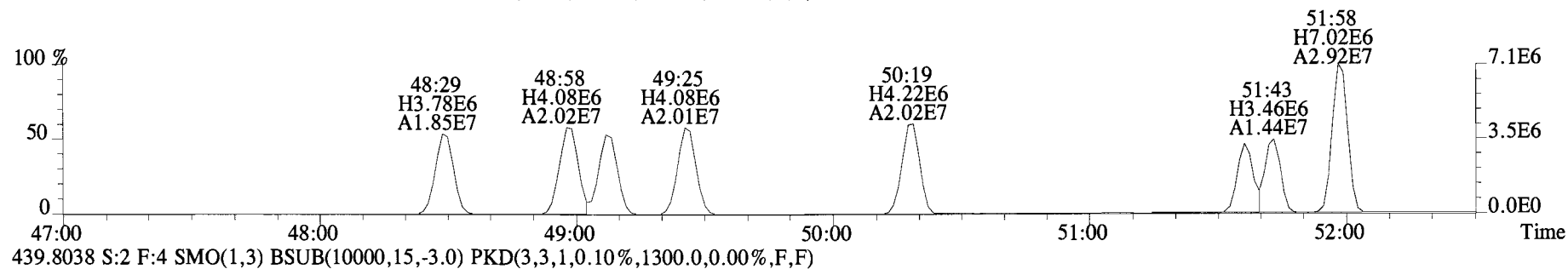
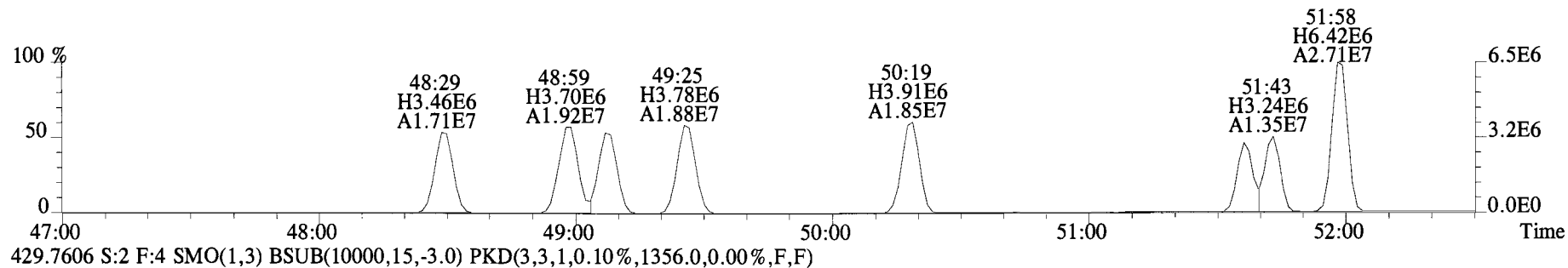
File:140919E1 #1-544 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17868.0,0.00%,F,F)



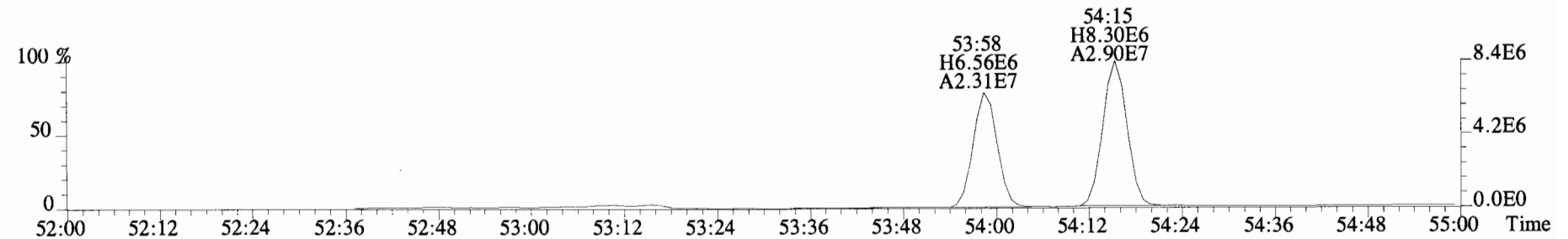
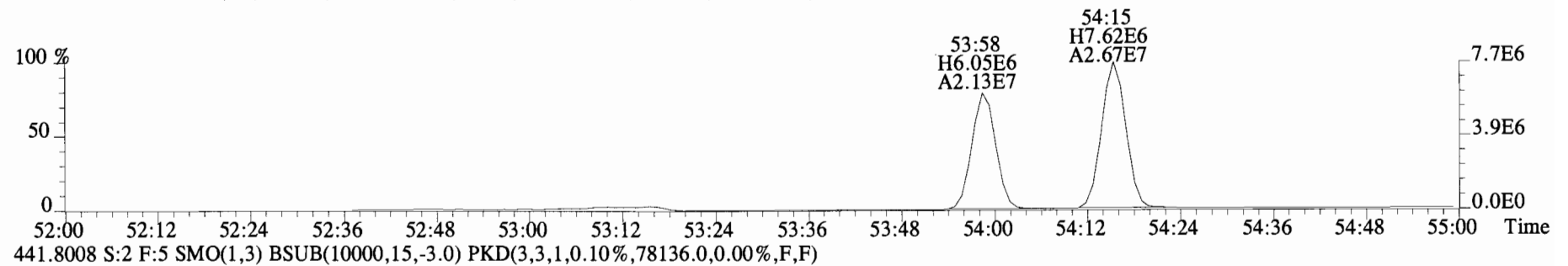
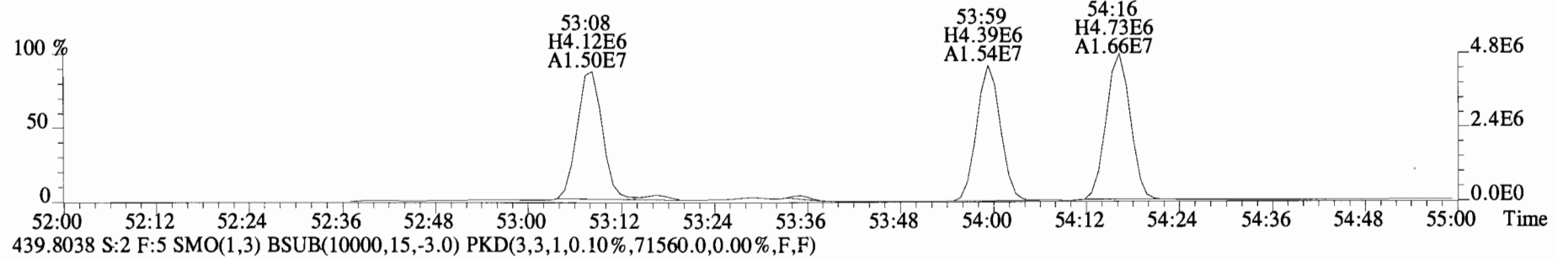
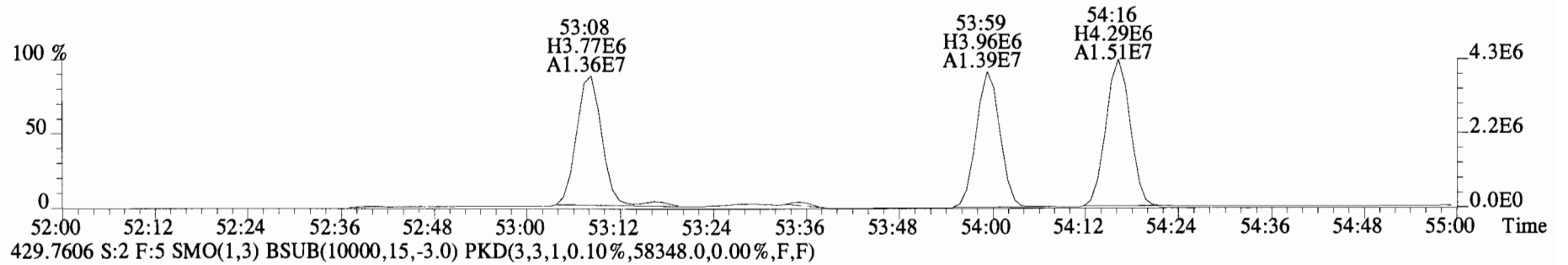
File:140919E1 #1-544 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10980.0,0.00%,F,F)



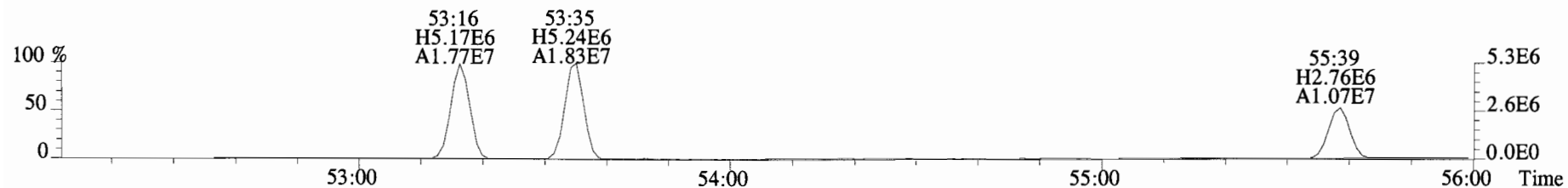
File:140919E1 #1-544 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
427.7635 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1356.0,0.00%,F,F)



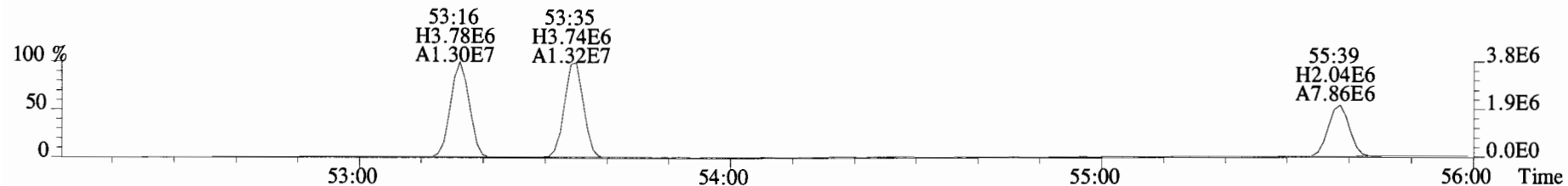
File:140919E1 #1-430 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
427.7635 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,52796.0,0.00%,F,F)



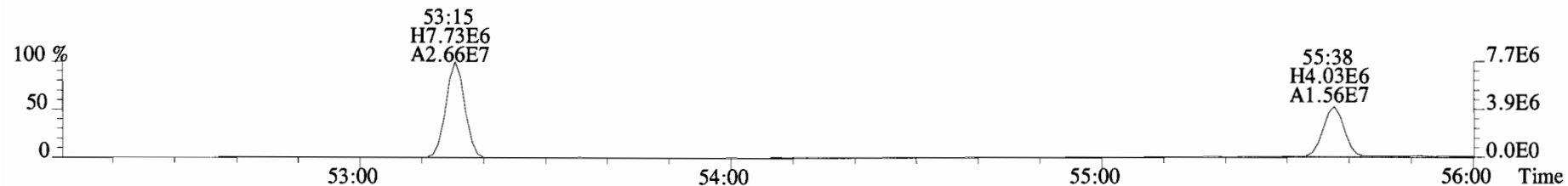
File:140919E1 #1-430 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
463.7216 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16708.0,0.00%,F,F)



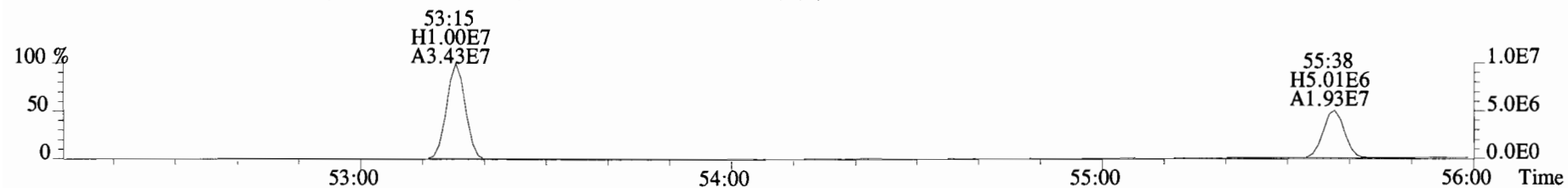
465.7186 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11132.0,0.00%,F,F)



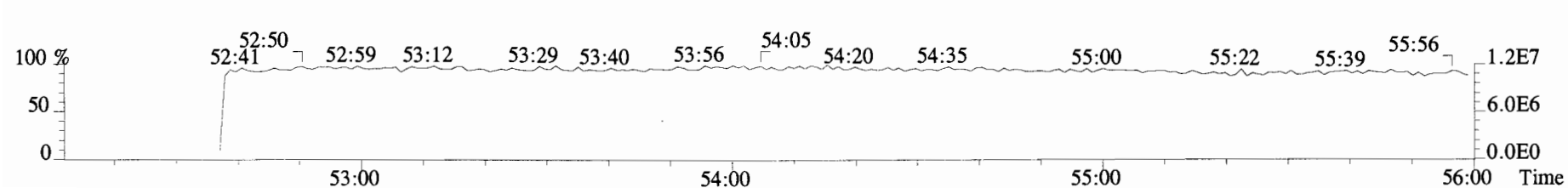
473.7648 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,18500.0,0.00%,F,F)



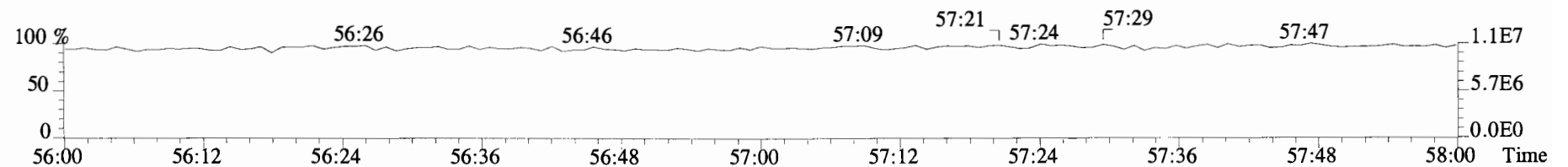
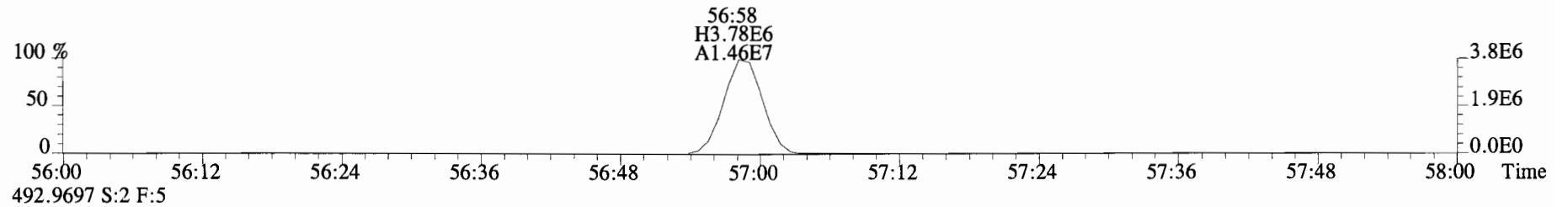
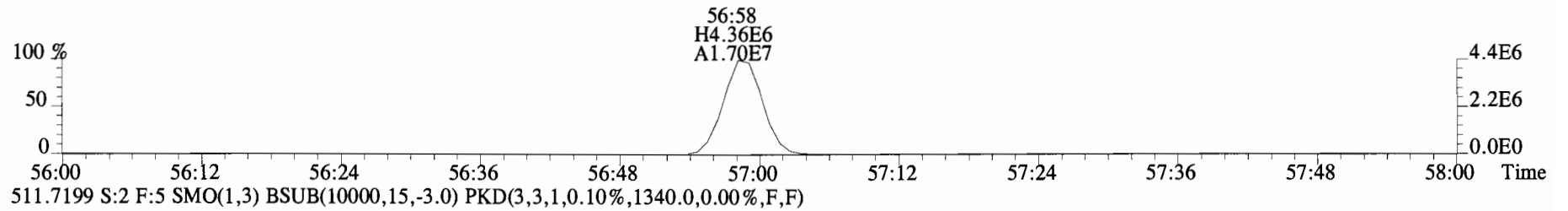
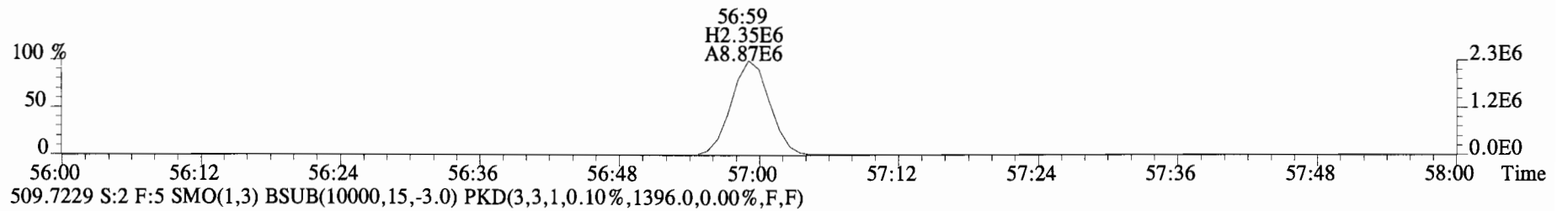
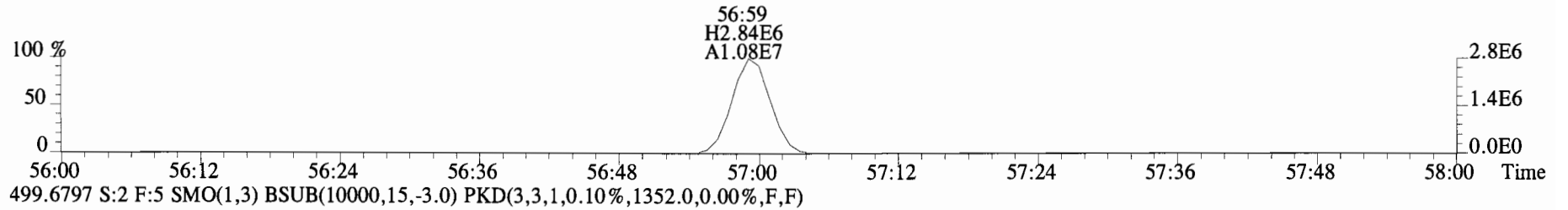
475.7619 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25284.0,0.00%,F,F)



492.9697 S:2 F:5



File:140919E1 #1-430 Acq:19-SEP-2014 10:37:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B4I0047-BS1 OPR 1 Exp:PCB_ZB1
497.6826 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1568.0,0.00%,F,F)



Client ID: PS-TS-01-20140909-W
Lab ID: 1400659-01

Filename: 140919E1
GC Column ID: ZB-1

S:7 Acq:19-SEP-14 15:59:24 /
ICal: PCBVG8-6-20-14 wt/vol: 1.02540

ConCal: ST140919E1-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|--------------|----------|------|---------|------|-------|------|-------|-----|-------|-------|-------------|-----|
| Mono | PCB-1 | * | * | n NotFη | 1.25 | * | | 3980 | 2.5 | 2.17 | * | 0.996-1.006 | |
| Mono | PCB-2 | * | * | n NotFη | 1.18 | * | | 3980 | 2.5 | 2.42 | * | 0.983-0.993 | |
| Mono | PCB-3 | * | * | n NotFη | 1.22 | * | | 3980 | 2.5 | 2.35 | * | 0.996-1.006 | |
| Di | PCB-4/10 | * | * | n NotFη | 1.55 | * | | 21000 | 2.5 | 8.67 | * | 0.998-1.008 | |
| Di | PCB-7/9 | * | * | n NotFη | 1.27 | * | | 21000 | 2.5 | 7.23 | * | 0.865-0.873 | |
| Di | PCB-6 | * | * | n NotFη | 1.26 | * | | 21000 | 2.5 | 7.26 | * | 0.890-0.899 | |
| Di | PCB-5/8 | * | * | n NotFη | 1.23 | * | | 21000 | 2.5 | 7.42 | * | 0.906-0.916 | |
| Di | PCB-14 | * | * | n NotFη | 1.23 | * | | 21000 | 2.5 | 6.31 | * | 0.949-0.959 | |
| Di | PCB-11 | 4.61e+06 | 1.60 | y 25:27 | 1.16 | 58.6 | | * | 2.5 | * | 1.001 | 0.996-1.006 | |
| Di | PCB-12/13 | * | * | n NotFη | 1.10 | * | | 21000 | 2.5 | 7.07 | * | 1.010-1.020 | |
| Di | PCB-15 | * | * | n NotFη | 1.21 | * | | 21000 | 2.5 | 6.43 | * | 1.024-1.034 | |
| Tri | PCB-19 | * | * | n NotFη | 1.30 | * | | 2250 | 2.5 | 1.14 | * | 0.996-1.006 | |
| Tri | PCB-30 | * | * | n NotFη | 1.83 | * | | 2250 | 2.5 | 0.805 | * | 1.032-1.042 | |
| Tri | PCB-18 | 4.55e+05 | 1.14 | y 26:05 | 0.86 | 9.86 | | * | 2.5 | * | 0.954 | 0.949-0.959 | |
| Tri | PCB-17 | 1.73e+05 | 1.24 | n 26:15 | 0.90 | 3.59 | R | * | 2.5 | * | 0.960 | 0.955-0.965 | |
| Tri | PCB-24/27 | * | * | n NotFη | 1.18 | * | | 2250 | 2.5 | 0.789 | * | 0.976-0.986 | |
| Tri | PCB-16/32 | 4.52e+05 | 1.09 | y 27:19 | 1.03 | 8.18 | | * | 2.5 | * | 0.999 | 0.995-1.005 | |
| Tri | PCB-34 | * | * | n NotFη | 1.26 | * | | 1860 | 2.5 | 1.04 | * | 0.956-0.966 | |
| Tri | PCB-23 | * | * | n NotFη | 1.31 | * | | 1860 | 2.5 | 1.00 | * | 0.959-0.969 | |
| Tri | PCB-29 | * | * | n NotFη | 1.33 | * | | 1860 | 2.5 | 0.989 | * | 0.967-0.977 | |
| Tri | PCB-26 | 7.66e+04 | 0.92 | y 28:42 | 1.29 | 1.61 | | * | 2.5 | * | 0.980 | 0.974-0.984 | |
| Tri | PCB-25 | * | * | n NotFη | 1.34 | * | | 1860 | 2.5 | 0.979 | * | 0.980-0.990 | |
| Tri | PCB-31 | 2.94e+05 | 0.89 | y 29:12 | 1.42 | 5.63 | | * | 2.5 | * | 0.997 | 0.992-1.002 | |
| Tri | PCB-28 | 3.82e+05 | 0.97 | y 29:19 | 1.38 | 7.53 | | * | 2.5 | * | 1.001 | 0.996-1.006 | |
| Tri | PCB-20/21/33 | 2.09e+05 | 0.97 | y 29:57 | 1.31 | 4.34 | | * | 2.5 | * | 1.022 | 1.017-1.027 | |
| Tri | PCB-22 | 1.46e+05 | 1.19 | y 30:23 | 1.32 | 3.00 | | * | 2.5 | * | 1.037 | 1.032-1.042 | |
| Tri | PCB-36 | * | * | n NotFη | 1.38 | * | | 1860 | 2.5 | 1.01 | * | 0.929-0.939 | |
| Tri | PCB-39 | * | * | n NotFη | 1.42 | * | | 1860 | 2.5 | 0.976 | * | 0.943-0.953 | |
| Tri | PCB-38 | * | * | n NotFη | 1.35 | * | | 1860 | 2.5 | 1.02 | * | 0.967-0.976 | |
| Tri | PCB-35 | * | * | n NotFη | 1.38 | * | | 1860 | 2.5 | 1.01 | * | 0.982-0.992 | |
| Tri | PCB-37 | 1.87e+05 | 0.91 | y 33:11 | 1.39 | 3.77 | | * | 2.5 | * | 1.001 | 0.996-1.006 | |
| Tetra | PCB-54 | * | * | n NotFη | 1.20 | * | | 2120 | 2.5 | 0.827 | * | 0.996-1.006 | |
| Tetra | PCB-50 | * | * | n NotFη | 0.97 | * | | 2120 | 2.5 | 1.02 | * | 1.037-1.047 | |
| Tetra | PCB-53 | 7.52e+04 | 0.75 | y 30:00 | 1.19 | 1.60 | | * | 2.5 | * | 0.946 | 0.941-0.951 | |
| Tetra | PCB-51 | 3.37e+04 | 0.48 | n 30:21 | 1.15 | 0.740 | R | * | 2.5 | * | 0.957 | 0.952-0.962 | |
| Tetra | PCB-45 | 7.38e+04 | 0.86 | y 30:47 | 0.97 | 1.93 | | * | 2.5 | * | 0.971 | 0.966-0.976 | |
| Tetra | PCB-46 | * | * | n NotFη | 0.95 | * | | 2120 | 2.5 | 1.20 | * | 0.982-0.992 | |

Integrations by:

Analyst: DMS

Date: 9/24/14

Reviewed by: MP

Date: 9/24/14

Client ID: PS-TS-01-20140909-W
Lab ID: 1400659-01

Filename: 140919E1
GC Column ID: ZB-1

S:7 Acq:19-SEP-14 15:59:24
ICal: PCBVG8-6-20-14 wt/vol:1.0254

ConCal: ST140919E1-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-----------------|----------|------|---------------|------|-------|------|-------|-----|-------|-------|-------------|-----|
| Tetra | PCB-52/69 | 7.00e+05 | 0.70 | y 31:43 | 1.28 | 13.9 | * | 2.5 | * | * | 1.001 | 0.996-1.006 | |
| Tetra | PCB-73 | * | * | n NotF η | 1.37 | * | | 2120 | 2.5 | 0.833 | * | 1.000-1.010 | |
| Tetra | PCB-43/49 | 3.17e+05 | 0.85 | y 32:02 | 1.11 | 7.21 | * | 2.5 | * | * | 1.011 | 1.005-1.015 | |
| Tetra | PCB-47 | 2.12e+05 | 0.82 | y 32:14 | 1.13 | 4.48 | * | 2.5 | * | * | 1.001 | 0.996-1.006 | |
| Tetra | PCB-48/75 | 1.15e+05 | 0.72 | y 32:21 | 1.30 | 2.12 | * | 2.5 | * | * | 1.004 | 0.999-1.009 | |
| Tetra | PCB-65 | * | * | n NotF η | 1.33 | * | | 2120 | 2.5 | 0.817 | * | 1.007-1.017 | |
| Tetra | PCB-62 | * | * | n NotF η | 1.29 | * | | 2120 | 2.5 | 0.844 | * | 1.011-1.021 | |
| Tetra | PCB-44 | 4.01e+05 | 0.74 | y 33:02 | 0.94 | 10.2 | * | 2.5 | * | * | 1.025 | 1.020-1.030 | |
| Tetra | PCB-42/59 | 1.52e+05 | 0.83 | y 33:16 | 1.22 | 2.99 | * | 2.5 | * | * | 1.033 | 1.028-1.038 | |
| Tetra | PCB-41/64/71/72 | 5.26e+05 | 0.82 | y 33:51 | 1.31 | 9.61 | * | 2.5 | * | * | 1.051 | 1.046-1.056 | |
| Tetra | PCB-68 | 5.88e+04 | 0.79 | y 34:04 | 1.49 | 0.949 | * | 2.5 | * | * | 1.057 | 1.054-1.064 | |
| Tetra | PCB-40 | 8.14e+04 | 0.75 | y 34:18 | 0.82 | 2.38 | * | 2.5 | * | * | 1.065 | 1.061-1.071 | |
| Tetra | PCB-57 | * | * | n NotF η | 1.11 | * | | 2120 | 2.5 | 0.820 | * | 0.965-0.975 | |
| Tetra | PCB-67 | * | * | n NotF η | 1.07 | * | | 2120 | 2.5 | 0.851 | * | 0.974-0.984 | |
| Tetra | PCB-58 | * | * | n NotF η | 1.10 | * | | 2120 | 2.5 | 0.829 | * | 0.977-0.987 | |
| Tetra | PCB-63 | * | * | n NotF η | 1.12 | * | | 2120 | 2.5 | 0.818 | * | 0.982-0.992 | |
| Tetra | PCB-74 | 2.06e+05 | 0.84 | y 35:32 | 1.20 | 3.16 | * | 2.5 | * | * | 0.995 | 0.990-1.000 | |
| Tetra | PCB-61/70 | 8.18e+05 | 0.75 | y 35:44 | 1.08 | 14.0 | * | 2.5 | * | * | 1.000 | 0.994-1.004 | |
| Tetra | PCB-76/66 | 4.12e+05 | 0.77 | y 35:57 | 1.14 | 6.72 | * | 2.5 | * | * | 1.007 | 1.001-1.011 | |
| Tetra | PCB-80 | * | * | n NotF η | 1.28 | * | | 2120 | 2.5 | 0.672 | * | 0.996-1.006 | |
| Tetra | PCB-55 | * | * | n NotF η | 1.11 | * | | 2120 | 2.5 | 0.773 | * | 1.005-1.015 | |
| Tetra | PCB-56/60 | 3.93e+05 | 0.79 | y 36:58 | 1.09 | 6.11 | * | 2.5 | * | * | 1.023 | 1.018-1.028 | |
| Tetra | PCB-79 | * | * | n NotF η | 1.12 | * | | 2120 | 2.5 | 0.764 | * | 1.048-1.058 | |
| Tetra | PCB-78 | * | * | n NotF η | 1.24 | * | | 2120 | 2.5 | 0.766 | * | 0.982-0.992 | |
| Tetra | PCB-81 | * | * | n NotF η | 1.38 | * | | 2120 | 2.5 | 0.686 | * | 0.995-1.005 | |
| Tetra | PCB-77 | 1.57e+05 | 0.83 | y 39:52 | 1.21 | 2.42 | * | 2.5 | * | * | 1.000 | 0.995-1.005 | |
| Penta | PCB-104 | * | * | n NotF η | 1.26 | * | | 2120 | 2.5 | 1.24 | * | 0.996-1.006 | |
| Penta | PCB-96 | * | * | n NotF η | 1.09 | * | | 2120 | 2.5 | 1.43 | * | 1.034-1.044 | |
| Penta | PCB-103 | * | * | n NotF η | 0.93 | * | | 2120 | 2.5 | 1.67 | * | 1.050-1.060 | |
| Penta | PCB-100 | * | * | n NotF η | 1.00 | * | | 2120 | 2.5 | 1.56 | * | 1.061-1.071 | |
| Penta | PCB-94 | * | * | n NotF η | 1.11 | * | | 2120 | 2.5 | 1.85 | * | 0.981-0.991 | |
| Penta | PCB-95/98/102 | 1.18e+06 | 1.54 | y 36:03 | 1.21 | 28.5 | * | 2.5 | * | * | 1.001 | 0.994-1.004 | |
| Penta | PCB-93 | * | * | n NotF η | 1.13 | * | | 2120 | 2.5 | 1.81 | * | 0.998-1.008 | |
| Penta | PCB-88/91 | 1.87e+05 | 1.73 | y 36:26 | 1.02 | 5.40 | * | 2.5 | * | * | 1.012 | 1.006-1.016 | |
| Penta | PCB-121 | * | * | n NotF η | 1.90 | * | | 2120 | 2.5 | 1.07 | * | 1.009-1.019 | |
| Penta | PCB-84/92 | 6.47e+05 | 1.69 | y 37:21 | 1.05 | 16.0 | * | 2.5 | * | * | 0.990 | 0.986-0.996 | |
| Penta | PCB-89 | * | * | n NotF η | 1.02 | * | | 2120 | 2.5 | 1.78 | * | 0.991-1.001 | |

Analyst: DMS

Date: 9/24/14

Client ID: PS-TS-01-20140909-W
Lab ID: 1400659-01

Filename: 140919E1
GC Column ID: ZB-1

S:7 Acq:19-SEP-14 15:59:24
ICal: PCBVG8-6-20-14 wt/vol:1.0254

ConCal: ST140919E1-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|----------------|----------|------|---------------|------|-------|------|-------|-----|-------|-------|-------------|-----|
| Penta | PCB-90/101 | 1.93e+06 | 1.63 | y 37:44 | 1.19 | 42.0 | | * | 2.5 | * | 1.000 | 0.996-1.006 | |
| Penta | PCB-113 | 6.22e+04 | 1.63 | y 37:55 | 1.35 | 1.19 | | * | 2.5 | * | 1.005 | 1.002-1.012 | |
| Penta | PCB-99 | 7.21e+05 | 1.73 | y 38:03 | 1.29 | 14.5 | | * | 2.5 | * | 1.009 | 1.005-1.015 | |
| Penta | PCB-119 | 4.94e+04 | 1.39 | y 38:30 | 1.72 | 0.829 | | * | 2.5 | * | 0.987 | 0.982-0.992 | |
| Penta | PCB-108/112 | 7.46e+04 | 1.30 | n 38:41 | 1.29 | 1.67 | R | * | 2.5 | * | 0.991 | 0.986-0.996 | |
| Penta | PCB-83 | * | * | n NotF η | 1.52 | * | | 2120 | 2.5 | 1.30 | * | 0.991-1.001 | |
| Penta | PCB-97 | 4.67e+05 | 1.58 | y 39:02 | 1.25 | 10.8 | | * | 2.5 | * | 1.000 | 0.996-1.006 | |
| Penta | PCB-86 | * | * | n NotF η | 1.02 | * | | 2120 | 2.5 | 1.94 | * | 1.000-1.010 | |
| Penta | PCB-87/117/125 | 7.73e+05 | 1.77 | y 39:18 | 1.56 | 14.3 | | * | 2.5 | * | 1.007 | 1.002-1.012 | |
| Penta | PCB-111/115 | * | * | n NotF η | 1.75 | * | | 2120 | 2.5 | 1.13 | * | 1.007-1.017 | |
| Penta | PCB-85/116 | 2.29e+05 | 1.92 | n 39:35 | 1.30 | 5.07 | R | * | 2.5 | * | 1.015 | 1.010-1.020 | |
| Penta | PCB-120 | * | * | n NotF η | 1.78 | * | | 2120 | 2.5 | 1.11 | * | 1.016-1.026 | |
| Penta | PCB-110 | 2.50e+06 | 1.63 | y 39:58 | 1.68 | 42.9 | | * | 2.5 | * | 1.024 | 1.020-1.030 | |
| Penta | PCB-82 | 1.92e+05 | 1.48 | y 40:35 | 0.74 | 5.76 | | * | 2.5 | * | 0.976 | 0.972-0.982 | |
| Penta | PCB-124 | 1.08e+05 | 1.93 | n 41:17 | 1.32 | 1.81 | R | * | 2.5 | * | 0.993 | 0.988-0.998 | |
| Penta | PCB-107/109 | 1.42e+05 | 1.18 | n 41:26 | 1.22 | 2.58 | R | * | 2.5 | * | 0.997 | 0.991-1.001 | |
| Penta | PCB-123 | * | * | n NotF η | 1.22 | * | | 2120 | 2.5 | 1.28 | * | 0.995-1.005 | |
| Penta | PCB-106/118 | 1.96e+06 | 1.56 | y 41:46 | 1.22 | 34.8 | | * | 2.5 | * | 1.000 | 0.996-1.006 | |
| Penta | PCB-114 | * | * | n NotF η | 1.36 | * | | 3380 | 2.5 | 2.27 | * | 0.995-1.005 | |
| Penta | PCB-122 | * | * | n NotF η | 1.24 | * | | 3380 | 2.5 | 2.49 | * | 0.999-1.009 | |
| Penta | PCB-105 | 6.08e+05 | 1.89 | n 43:18 | 1.28 | 12.3 | R | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Penta | PCB-127 | * | * | n NotF η | 1.14 | * | | 3380 | 2.5 | 2.41 | * | 0.995-1.005 | |
| Penta | PCB-126 | * | * | n NotF η | 1.28 | * | | 3380 | 2.5 | 2.76 | * | 0.995-1.005 | |
| Hexa | PCB-155 | * | * | n NotF η | 1.14 | * | | 1540 | 2.5 | 0.903 | * | 0.966-1.006 | |
| Hexa | PCB-150 | * | * | n NotF η | 1.06 | * | | 1540 | 2.5 | 0.963 | * | 1.030-1.040 | |
| Hexa | PCB-152 | * | * | n NotF η | 1.10 | * | | 1540 | 2.5 | 0.933 | * | 1.043-1.053 | |
| Hexa | PCB-145 | * | * | n NotF η | 1.09 | * | | 1540 | 2.5 | 0.938 | * | 1.055-1.065 | |
| Hexa | PCB-136 | 3.31e+05 | 1.09 | y 39:46 | 1.08 | 7.19 | | * | 2.5 | * | 1.068 | 1.064-1.074 | |
| Hexa | PCB-148 | * | * | n NotF η | 0.74 | * | | 1540 | 2.5 | 1.38 | * | 1.066-1.076 | |
| Hexa | PCB-154 | * | * | n NotF η | 0.88 | * | | 1540 | 2.5 | 1.16 | * | 1.079-1.089 | |
| Hexa | PCB-151 | 4.52e+05 | 1.31 | y 41:00 | 0.81 | 13.2 | | * | 2.5 | * | 1.101 | 1.097-1.107 | |
| Hexa | PCB-135 | 2.41e+05 | 1.37 | y 41:14 | 0.78 | 7.29 | | * | 2.5 | * | 1.107 | 1.101-1.113 | |
| Hexa | PCB-144 | 1.03e+05 | 1.08 | y 41:21 | 0.82 | 2.97 | | * | 2.5 | * | 1.110 | 1.105-1.116 | |
| Hexa | PCB-147 | 2.71e+04 | 1.06 | y 41:29 | 0.83 | 0.771 | | * | 2.5 | * | 1.114 | 1.011-1.120 | |
| Hexa | PCB-139/149 | 1.73e+06 | 1.26 | y 41:43 | 0.84 | 48.4 | | * | 2.5 | * | 1.120 | 1.115-1.127 | |
| Hexa | PCB-140 | * | * | n NotF η | 0.79 | * | | 1540 | 2.5 | 1.31 | * | 1.120-1.132 | |
| Hexa | PCB-134/143 | 1.19e+05 | 1.08 | y 42:22 | 0.93 | 2.94 | | * | 2.5 | * | 0.975 | 0.970-0.980 | |

Analyst: *DMS*

Date: *9/24/14*

Client ID: PS-TS-01-20140909-W
Lab ID: 1400659-01

Filename: 140919E1
GC Column ID: ZB-1

S:7 Acq:19-SEP-14 15:59:24
ICal: PCBVG8-6-20-14 wt/vol:1.0254

ConCal: ST140919E1-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-----------------|----------|------|---------------|------|------|------|-------|-----|-------|-------|-------------|-----|
| Hexa | PCB-133/142 | 6.71e+04 | 1.34 | y 42:40 | 0.95 | 1.63 | R | * | 2.5 | * | 0.982 | 0.977-0.987 | |
| Hexa | PCB-131 | * | * | n NotF η | 0.91 | * | | 3000 | 2.5 | 2.33 | * | 0.981-0.991 | |
| Hexa | PCB-146/165 | 3.97e+05 | 1.41 | y 43:03 | 1.16 | 7.86 | | * | 2.5 | * | 0.991 | 0.986-0.996 | |
| Hexa | PCB-132/161 | 7.51e+05 | 1.38 | y 43:19 | 1.11 | 15.5 | | * | 2.5 | * | 0.997 | 0.992-1.002 | |
| Hexa | PCB-153 | 2.56e+06 | 1.25 | y 43:27 | 1.18 | 49.8 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Hexa | PCB-168 | * | * | n NotF η | 1.37 | * | | 3000 | 2.5 | 1.55 | * | 1.000-1.010 | |
| Hexa | PCB-141 | 5.73e+05 | 1.12 | y 44:11 | 0.97 | 13.8 | | * | 2.5 | * | 1.000 | 0.996-1.005 | |
| Hexa | PCB-137 | 1.22e+05 | 1.23 | y 44:34 | 1.07 | 2.67 | | * | 2.5 | * | 1.009 | 1.004-1.014 | |
| Hexa | PCB-130 | 1.32e+05 | 1.80 | n 44:41 | 0.85 | 3.65 | R | * | 2.5 | * | 1.011 | 1.007-1.017 | |
| Hexa | PCB-138/163/164 | 2.93e+06 | 1.27 | y 45:03 | 1.23 | 57.9 | | * | 2.5 | * | 1.001 | 0.996-1.006 | |
| Hexa | PCB-158/160 | 3.59e+05 | 1.26 | y 45:17 | 1.29 | 6.73 | | * | 2.5 | * | 1.006 | 1.001-1.011 | |
| Hexa | PCB-129 | 9.66e+04 | 1.15 | y 45:32 | 0.92 | 2.53 | | * | 2.5 | * | 1.011 | 1.007-1.017 | |
| Hexa | PCB-166 | * | * | n NotF η | 1.12 | * | | 3000 | 2.5 | 1.77 | * | 0.988-0.998 | |
| Hexa | PCB-159 | * | * | n NotF η | 1.16 | * | | 3000 | 2.5 | 1.70 | * | 0.995-1.005 | |
| Hexa | PCB-128/162 | 4.53e+05 | 1.19 | y 46:35 | 1.02 | 9.43 | | * | 2.5 | * | 1.006 | 1.002-1.012 | |
| Hexa | PCB-167 | 1.41e+05 | 0.92 | n 47:01 | 1.06 | 2.53 | R | * | 2.5 | * | 1.001 | 0.995-1.005 | |
| Hexa | PCB-156 | 2.80e+05 | 1.30 | y 48:18 | 1.18 | 4.98 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Hexa | PCB-157 | * | * | n NotF η | 1.08 | * | | 3000 | 2.5 | 1.77 | * | 0.995-1.005 | |
| Hexa | PCB-169 | * | * | n NotF η | 1.11 | * | | 3000 | 2.5 | 1.96 | * | 0.995-1.005 | |
| Hepta | PCB-188 | * | * | n NotF η | 1.40 | * | | 1970 | 2.5 | 0.699 | * | 0.995-1.005 | |
| Hepta | PCB-184 | * | * | n NotF η | 1.24 | * | | 1970 | 2.5 | 0.793 | * | 1.006-1.016 | |
| Hepta | PCB-179 | 4.42e+05 | 1.06 | y 44:19 | 1.30 | 8.96 | | * | 2.5 | * | 1.029 | 1.024-1.034 | |
| Hepta | PCB-176 | 1.48e+05 | 1.12 | y 44:46 | 1.36 | 2.87 | | * | 2.5 | * | 1.039 | 1.035-1.045 | |
| Hepta | PCB-186 | * | * | n NotF η | 1.28 | * | | 1970 | 2.5 | 0.769 | * | 1.049-1.059 | |
| Hepta | PCB-178 | 1.73e+05 | 1.14 | y 45:53 | 0.94 | 4.89 | | * | 2.5 | * | 1.065 | 1.061-1.071 | |
| Hepta | PCB-175 | * | * | n NotF η | 0.97 | * | | 1970 | 2.5 | 1.01 | * | 1.069-1.079 | |
| Hepta | PCB-182/187 | 1.07e+06 | 1.12 | y 46:23 | 1.01 | 27.9 | | * | 2.5 | * | 1.077 | 1.073-1.083 | |
| Hepta | PCB-183 | 4.48e+05 | 1.14 | y 46:42 | 1.08 | 10.9 | | * | 2.5 | * | 1.084 | 1.080-1.090 | |
| Hepta | PCB-185 | 7.21e+04 | 1.39 | n 47:22 | 1.34 | 1.97 | R | * | 2.5 | * | 0.956 | 0.951-0.961 | |
| Hepta | PCB-174 | 7.64e+05 | 1.15 | y 47:44 | 1.34 | 20.9 | | * | 2.5 | * | 0.963 | 0.958-0.968 | |
| Hepta | PCB-181 | * | * | n NotF η | 1.36 | * | | 1970 | 2.5 | 1.00 | * | 0.961-0.971 | |
| Hepta | PCB-177 | 3.66e+05 | 1.14 | y 48:01 | 1.24 | 10.8 | | * | 2.5 | * | 0.969 | 0.964-0.974 | |
| Hepta | PCB-171 | 1.71e+05 | 1.03 | y 48:18 | 1.31 | 4.78 | | * | 2.5 | * | 0.974 | 0.970-0.980 | |
| Hepta | PCB-173 | * | * | n NotF η | 1.16 | * | | 1970 | 2.5 | 1.18 | * | 0.979-0.989 | |
| Hepta | PCB-172 | 1.29e+05 | 1.09 | y 49:10 | 1.22 | 3.87 | | * | 2.5 | * | 0.992 | 0.988-0.998 | |
| Hepta | PCB-192 | * | * | n NotF η | 1.53 | * | | 1970 | 2.5 | 0.894 | * | 0.991-1.001 | |
| Hepta | PCB-180 | 1.64e+06 | 1.09 | y 49:35 | 1.43 | 42.0 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |

Analyst: DMS

Date: 9/24/14

Client ID: PS-TS-01-20140909-W
Lab ID: 1400659-01

Filename: 140919E1 S:7 Acq:19-SEP-14 15:59:24
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0254

ConCal: ST140919E1-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-------------|----------|------|---------------|------|------|------|-------|-----|-------|-------|-------------|-----|
| Hepta | PCB-193 | 9.12e+04 | 0.78 | n 49:47 | 1.65 | 2.02 | R | * | 2.5 | * | 1.004 | 0.999-1.009 | |
| Hepta | PCB-191 | * | * | n NotF η | 1.67 | * | | 1970 | 2.5 | 0.816 | * | 1.004-1.014 | |
| Hepta | PCB-170 | 5.93e+05 | 1.03 | y 51:03 | 1.50 | 18.7 | | * | 2.5 | * | 1.001 | 0.995-1.005 | |
| Hepta | PCB-190 | 1.20e+05 | 0.95 | y 51:13 | 2.02 | 2.82 | | * | 2.5 | * | 1.004 | 0.998-1.008 | |
| Hepta | PCB-189 | * | * | n NotF η | 1.54 | * | | 2010 | 2.5 | 0.885 | * | 0.995-1.005 | |
| Octa | PCB-202 | 1.24e+05 | 1.13 | n 48:30 | 1.04 | 3.21 | R | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Octa | PCB-201 | 7.93e+04 | 0.92 | y 48:59 | 1.10 | 1.93 | | * | 2.5 | * | 1.010 | 1.006-1.016 | |
| Octa | PCB-204 | * | * | n NotF η | 0.99 | * | | 1440 | 2.5 | 0.957 | * | 1.009-1.019 | |
| Octa | PCB-197 | * | * | n NotF η | 1.07 | * | | 1440 | 2.5 | 0.886 | * | 1.015-1.025 | |
| Octa | PCB-200 | 6.20e+04 | 1.13 | n 50:19 | 1.02 | 1.63 | R | * | 2.5 | * | 1.038 | 1.032-1.044 | |
| Octa | PCB-198 | * | * | n NotF η | 0.74 | * | | 1440 | 2.5 | 1.28 | * | 1.058-1.068 | |
| Octa | PCB-199 | 3.03e+05 | 0.84 | y 51:43 | 0.73 | 11.2 | | * | 2.5 | * | 1.067 | 1.060-1.070 | |
| Octa | PCB-196/203 | 3.03e+05 | 1.05 | n 51:59 | 0.77 | 10.5 | R | * | 2.5 | * | 1.072 | 1.066-1.076 | |
| Octa | PCB-195 | 9.67e+04 | 1.01 | y 53:09 | 1.20 | 4.11 | | * | 2.5 | * | 0.984 | 0.979-0.989 | |
| Octa | PCB-194 | 2.39e+05 | 0.93 | y 54:00 | 1.25 | 9.79 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Octa | PCB-205 | * | * | n NotF η | 1.41 | * | | 2490 | 2.5 | 1.62 | * | 1.001-1.011 | |
| Nona | PCB-208 | 4.54e+04 | 1.43 | y 53:17 | 0.96 | 1.76 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Nona | PCB-207 | * | * | n NotF η | 0.92 | * | | 1420 | 2.5 | 0.961 | * | 1.001-1.011 | |
| Nona | PCB-206 | 8.37e+04 | 1.43 | y 55:39 | 1.03 | 5.70 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Deca | PCB-209 | * | * | n NotF η | 1.18 | * | | 2780 | 2.5 | 4.07 | * | 0.995-1.005 | |

Analyst: DMS

Date: 9/24/14

| Name | Resp | RA | RT | RRF | Conc | |
|-----------------|----------|--------|--------|------|---------|-------------|
| Total Mono-PCB | * | * n | NotFnd | 1.22 | * | |
| Total Di-PCB | 4.61e+06 | 1.60 y | 25:27 | 1.21 | 58.6069 | |
| Total Tri-PCB | 9.06e+05 | 1.14 y | 26:05 | 1.16 | 18.0401 | |
| Total Tri-PCB | 1.30e+06 | 0.92 y | 28:42 | 1.35 | 25.8827 | Sum:43.9228 |
| Total Tetra-PCB | 4.70e+06 | 0.75 y | 30:00 | 1.17 | 89.8078 | |
| Total Penta-PCB | 1.07e+07 | 1.54 y | 36:03 | 1.21 | 217.002 | |
| Total Penta-PCB | * | * n | NotFnd | 1.26 | * | Sum:217.002 |
| Total Hexa-PCB | 2.89e+06 | 1.09 y | 39:46 | 0.92 | 79.8214 | |
| Total Hexa-PCB | 8.71e+06 | 1.08 y | 42:22 | 1.08 | 175.640 | Sum:255.462 |
| Total Hepta-PCB | 6.06e+06 | 1.06 y | 44:19 | 1.27 | 159.355 | |
| Total Octa-PCB | 3.82e+05 | 0.92 y | 48:59 | 0.92 | 13.0888 | |
| Total Octa-PCB | 3.36e+05 | 1.01 y | 53:09 | 1.29 | 13.8983 | Sum:26.9871 |
| Total Nona-PCB | 1.29e+05 | 1.43 y | 53:17 | 0.96 | 7.46303 | |
| Total Deca-PCB | * | * n | NotFnd | 1.18 | * | |

Total PCB Conc: ~~911.887~~429000

859

Integrations

by
Analyst: DMS

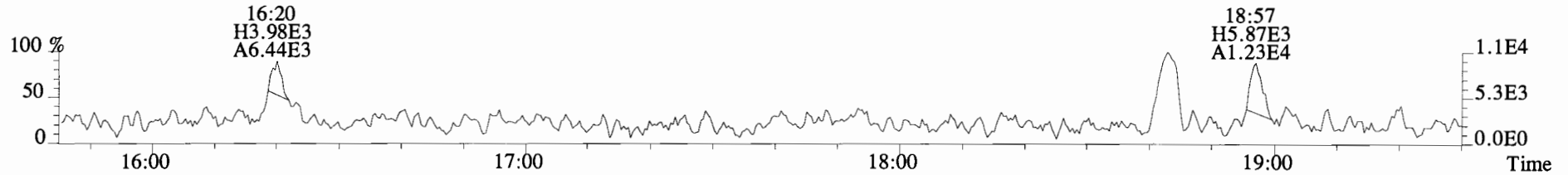
Date: 9/24/14

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec | CRS vs. RS | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec |
|-------------|----------|------|-----|------|-------|-------|-------------|------|------|------------|-------------|----------|------|-----|------|-------|-------|-------------|------|------|
| 13C-PCB-1 | 9.81e+07 | 3.50 | y | 0.89 | 16:19 | 0.624 | 0.622-0.628 | 1270 | 65.1 | | 13C-PCB-79 | 1.37e+08 | 0.80 | y | 1.01 | 38:02 | 1.029 | 1.023-1.033 | 1900 | 97.5 |
| 13C-PCB-3 | 9.93e+07 | 3.48 | y | 0.93 | 18:56 | 0.724 | 0.721-0.729 | 1230 | 63.2 | | 13C-PCB-178 | 6.07e+07 | 0.46 | y | 0.63 | 45:52 | 0.985 | 0.979-0.989 | 2140 | 110 |
| 13C-PCB-4 | 7.10e+07 | 1.59 | y | 0.55 | 20:16 | 0.775 | 0.772-0.780 | 1490 | 76.5 | | | | | | | | | | | |
| 13C-PCB-9 | 1.07e+08 | 1.57 | y | 0.83 | 22:04 | 0.844 | 0.840-0.848 | 1490 | 76.2 | | | | | | | | | | | |
| 13C-PCB-11 | 1.33e+08 | 1.59 | y | 0.94 | 25:26 | 0.973 | 0.968-0.978 | 1630 | 83.4 | PS vs. IS | | | | | | | | | | |
| 13C-PCB-19 | 6.07e+07 | 1.12 | y | 0.53 | 24:26 | 0.934 | 0.929-0.939 | 1310 | 67.2 | | 13C-PCB-79 | 1.37e+08 | 0.80 | y | 1.20 | 38:02 | 0.969 | 0.963-0.973 | 2160 | 111 |
| 13C-PCB-28 | 7.18e+07 | 1.14 | y | 0.89 | 29:18 | 1.004 | 0.999-1.009 | 1770 | 90.6 | | 13C-PCB-178 | 6.07e+07 | 0.46 | y | 0.94 | 45:52 | 0.925 | 0.920-0.930 | 2370 | 122 |
| 13C-PCB-32 | 1.05e+08 | 1.17 | y | 0.81 | 27:21 | 1.046 | 1.041-1.051 | 1480 | 75.9 | | | | | | | | | | | |
| 13C-PCB-37 | 6.96e+07 | 1.10 | y | 0.83 | 33:10 | 1.136 | 1.131-1.143 | 1830 | 93.8 | | | | | | | | | | | |
| 13C-PCB-47 | 8.13e+07 | 0.81 | y | 0.74 | 32:13 | 0.872 | 0.867-0.875 | 1530 | 78.2 | | | | | | | | | | | |
| 13C-PCB-52 | 7.71e+07 | 0.82 | y | 0.71 | 31:42 | 0.858 | 0.853-0.861 | 1520 | 77.9 | | | | | | | | | | | |
| 13C-PCB-54 | 8.91e+07 | 0.82 | y | 0.85 | 28:11 | 0.762 | 0.758-0.766 | 1460 | 75.0 | | | | | | | | | | | |
| 13C-PCB-70 | 1.05e+08 | 0.81 | y | 0.94 | 35:43 | 0.966 | 0.961-0.971 | 1560 | 79.8 | | | | | | | | | | | |
| 13C-PCB-77 | 1.05e+08 | 0.83 | y | 0.89 | 39:51 | 1.078 | 1.073-1.083 | 1640 | 84.0 | | | | | | | | | | | |
| 13C-PCB-80 | 1.15e+08 | 0.82 | y | 0.96 | 36:08 | 0.977 | 0.972-0.982 | 1670 | 85.8 | | | | | | | | | | | |
| 13C-PCB-81 | 1.03e+08 | 0.81 | y | 0.84 | 39:15 | 1.062 | 1.057-1.067 | 1710 | 87.8 | | | | | | | | | | | |
| 13C-PCB-95 | 6.63e+07 | 1.61 | y | 0.74 | 36:01 | 0.913 | 0.908-0.918 | 1590 | 81.5 | RS | | | | | | | | | | |
| 13C-PCB-97 | 6.76e+07 | 1.61 | y | 0.69 | 39:01 | 0.989 | 0.984-0.994 | 1750 | 89.6 | | Name | Resp | RA | RRF | RT | Conc | | | | |
| 13C-PCB-101 | 7.52e+07 | 1.61 | y | 0.79 | 37:43 | 0.956 | 0.951-0.961 | 1710 | 87.5 | | 13C-PCB-15 | 1.70e+08 | 1.56 | y | 1.00 | 26:09 | 1950 | | | |
| 13C-PCB-104 | 8.62e+07 | 1.60 | y | 1.00 | 32:52 | 0.833 | 0.829-0.837 | 1540 | 79.1 | | 13C-PCB-31 | 8.93e+07 | 1.12 | y | 1.00 | 29:11 | 1950 | | | |
| 13C-PCB-105 | 7.53e+07 | 1.68 | y | 1.24 | 43:17 | 0.929 | 0.924-0.934 | 1350 | 69.3 | | 13C-PCB-60 | 1.40e+08 | 0.81 | y | 1.00 | 36:58 | 1950 | | | |
| 13C-PCB-114 | 7.62e+07 | 1.67 | y | 1.21 | 42:25 | 0.911 | 0.905-0.915 | 1400 | 71.9 | | 13C-PCB-111 | 1.09e+08 | 1.61 | y | 1.00 | 39:27 | 1950 | | | |
| 13C-PCB-118 | 8.97e+07 | 1.61 | y | 0.98 | 41:46 | 1.059 | 1.054-1.064 | 1620 | 83.2 | | 13C-PCB-128 | 8.78e+07 | 1.33 | y | 1.00 | 46:34 | 1950 | | | |
| 13C-PCB-123 | 8.81e+07 | 1.60 | y | 0.95 | 41:34 | 1.054 | 1.049-1.059 | 1650 | 84.8 | | 13C-PCB-205 | 4.78e+07 | 0.92 | y | 1.00 | 54:17 | 1950 | | | |
| 13C-PCB-126 | 6.89e+07 | 1.68 | y | 1.16 | 45:31 | 0.977 | 0.972-0.982 | 1320 | 67.5 | | | | | | | | | | | |
| 13C-PCB-127 | 8.40e+07 | 1.64 | y | 1.34 | 43:37 | 0.937 | 0.931-0.941 | 1390 | 71.3 | | | | | | | | | | | |
| 13C-PCB-138 | 8.06e+07 | 1.32 | y | 1.04 | 45:01 | 0.967 | 0.961-0.971 | 1720 | 87.9 | | | | | | | | | | | |
| 13C-PCB-141 | 8.32e+07 | 1.30 | y | 1.07 | 44:11 | 0.949 | 0.943-0.953 | 1730 | 88.5 | | | | | | | | | | | |
| 13C-PCB-153 | 8.52e+07 | 1.33 | y | 1.11 | 43:26 | 0.933 | 0.927-0.937 | 1700 | 87.2 | | | | | | | | | | | |
| 13C-PCB-155 | 8.27e+07 | 1.29 | y | 0.83 | 37:15 | 0.944 | 0.939-0.949 | 1770 | 90.9 | | | | | | | | | | | |
| 13C-PCB-156 | 9.27e+07 | 1.31 | y | 1.24 | 48:17 | 1.037 | 1.032-1.042 | 1650 | 84.8 | | | | | | | | | | | |
| 13C-PCB-157 | 9.91e+07 | 1.35 | y | 1.31 | 48:33 | 1.043 | 1.037-1.047 | 1680 | 86.0 | | | | | | | | | | | |
| 13C-PCB-159 | 9.20e+07 | 1.32 | y | 1.20 | 46:18 | 0.994 | 0.989-0.999 | 1700 | 87.3 | | | | | | | | | | | |
| 13C-PCB-167 | 1.02e+08 | 1.33 | y | 1.32 | 46:59 | 1.009 | 1.004-1.014 | 1720 | 88.0 | | | | | | | | | | | |
| 13C-PCB-169 | 7.82e+07 | 1.32 | y | 1.22 | 50:41 | 1.088 | 1.082-1.092 | 1430 | 73.3 | | | | | | | | | | | |
| 13C-PCB-170 | 4.13e+07 | 0.47 | y | 0.54 | 51:01 | 1.096 | 1.089-1.101 | 1710 | 87.7 | | | | | | | | | | | |
| 13C-PCB-180 | 5.33e+07 | 0.46 | y | 0.67 | 49:34 | 1.064 | 1.059-1.069 | 1760 | 90.1 | | | | | | | | | | | |
| 13C-PCB-188 | 7.38e+07 | 0.45 | y | 0.94 | 43:04 | 0.925 | 0.919-0.929 | 1750 | 89.8 | | | | | | | | | | | |
| 13C-PCB-189 | 4.42e+07 | 0.47 | y | 0.72 | 52:30 | 1.127 | 1.120-1.132 | 1370 | 70.4 | | | | | | | | | | | |
| 13C-PCB-194 | 3.83e+07 | 0.95 | y | 0.81 | 54:00 | 0.995 | 0.990-1.000 | 1920 | 98.7 | | | | | | | | | | | |
| 13C-PCB-202 | 7.26e+07 | 0.91 | y | 0.83 | 48:29 | 1.041 | 1.036-1.046 | 1940 | 99.3 | | | | | | | | | | | |
| 13C-PCB-206 | 2.79e+07 | 0.78 | y | 0.66 | 55:38 | 1.025 | 1.021-1.031 | 1730 | 88.5 | | | | | | | | | | | |
| 13C-PCB-208 | 5.22e+07 | 0.78 | y | 1.12 | 53:16 | 0.981 | 0.976-0.986 | 1890 | 97.1 | | | | | | | | | | | |
| 13C-PCB-209 | 2.43e+07 | 1.21 | y | 0.61 | 56:58 | 1.049 | 1.044-1.054 | 1610 | 82.7 | | | | | | | | | | | |

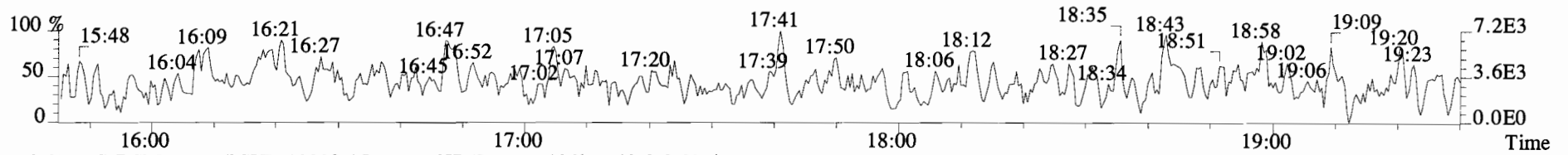
Analyst: *DMS*

Date: *9/23/14*

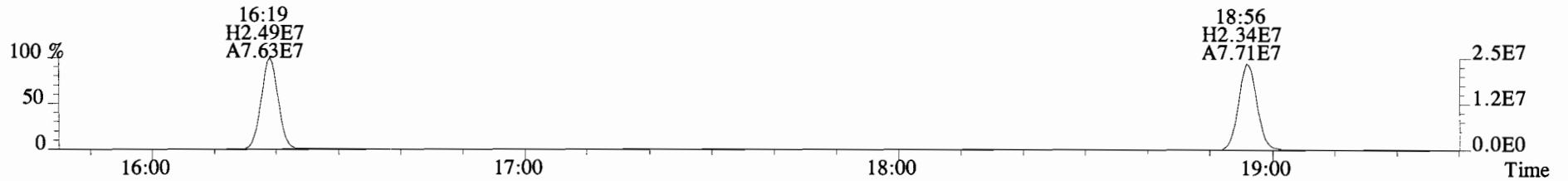
File:140919E1 #1-729 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
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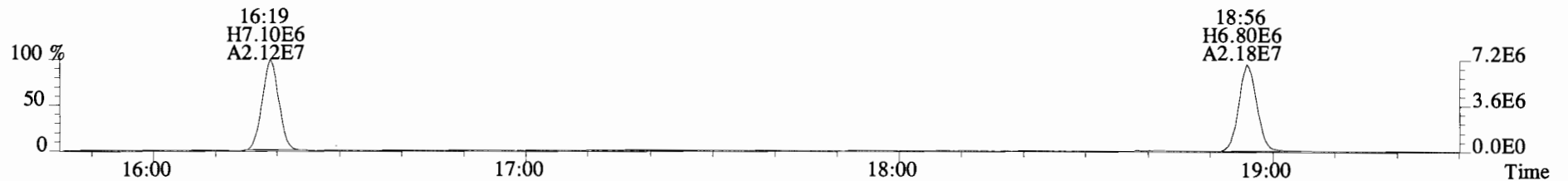
190.0363 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3976.0,0.00%,F,F)



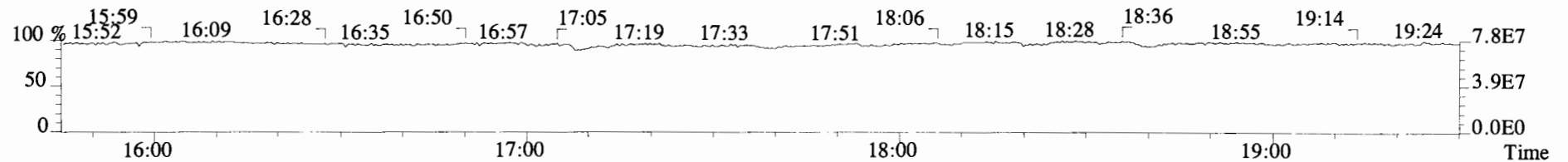
200.0795 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6740.0,0.00%,F,F)



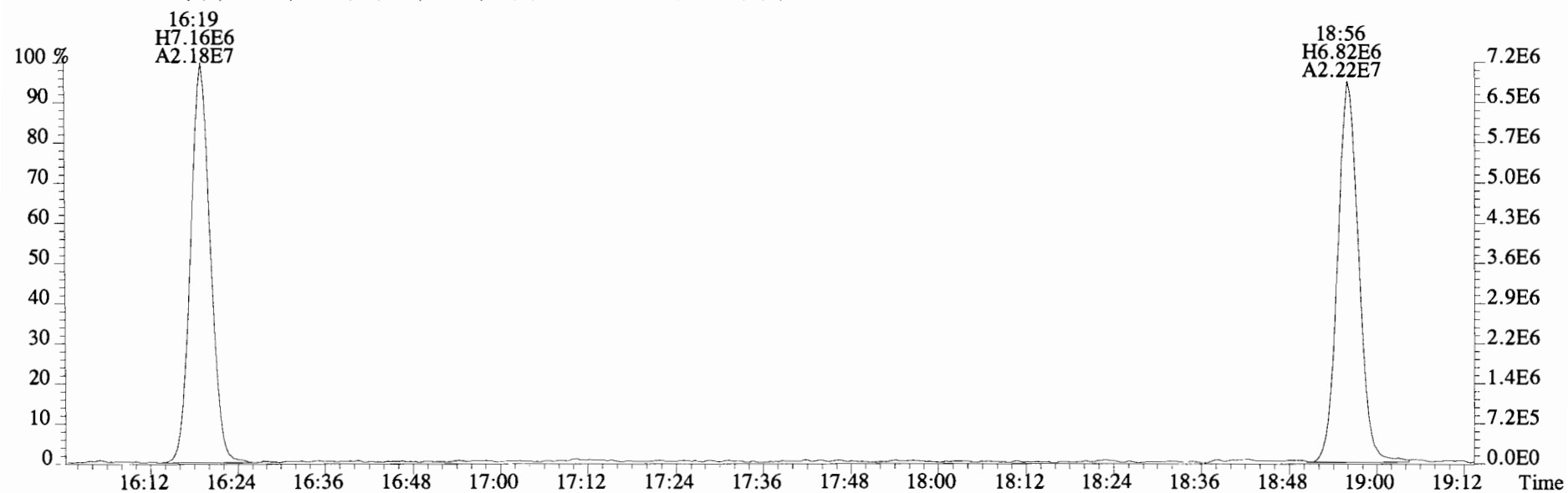
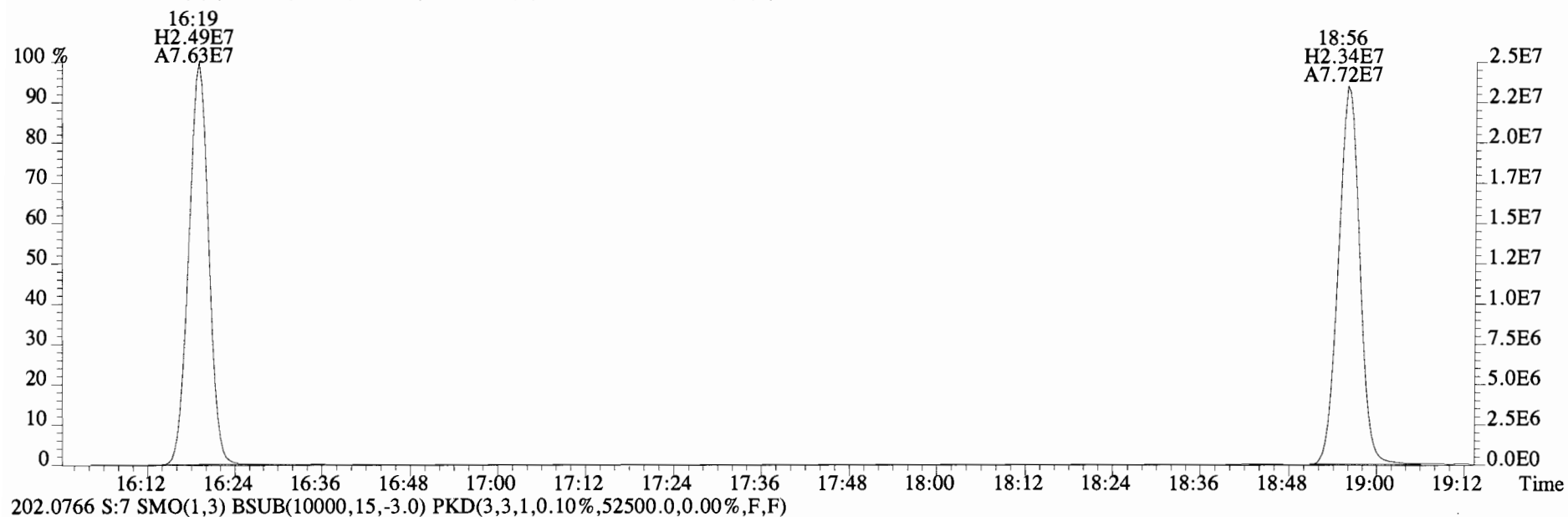
202.0766 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,52500.0,0.00%,F,F)



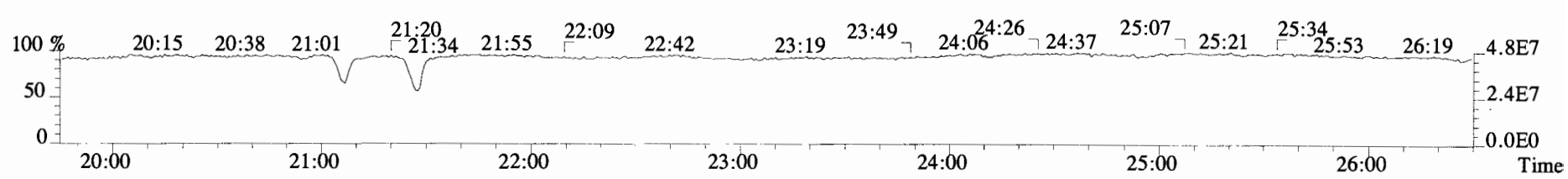
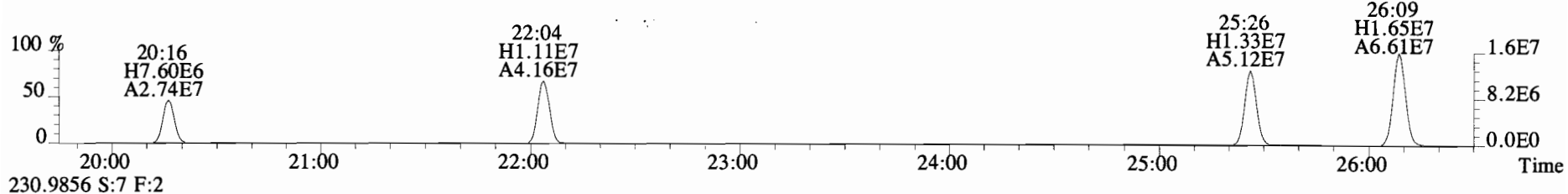
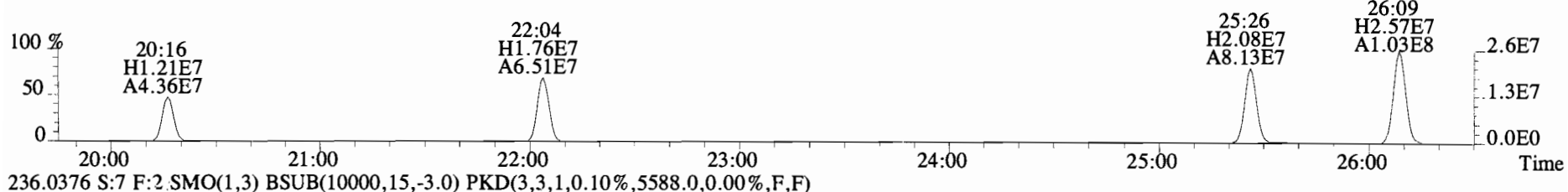
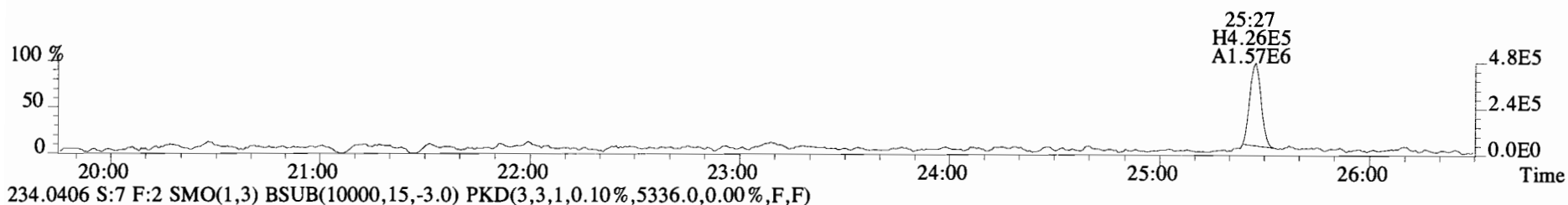
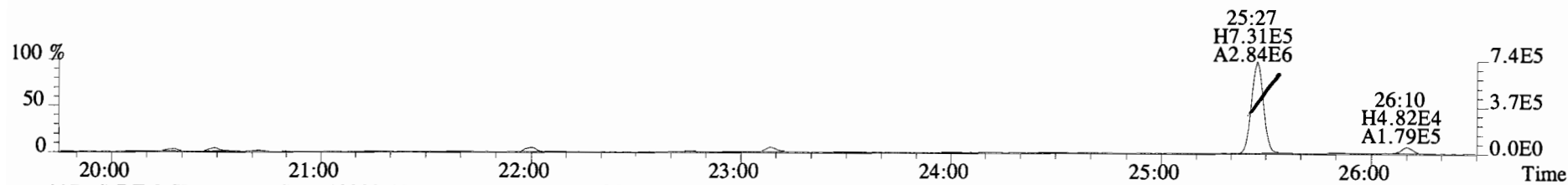
180.9880 S:7



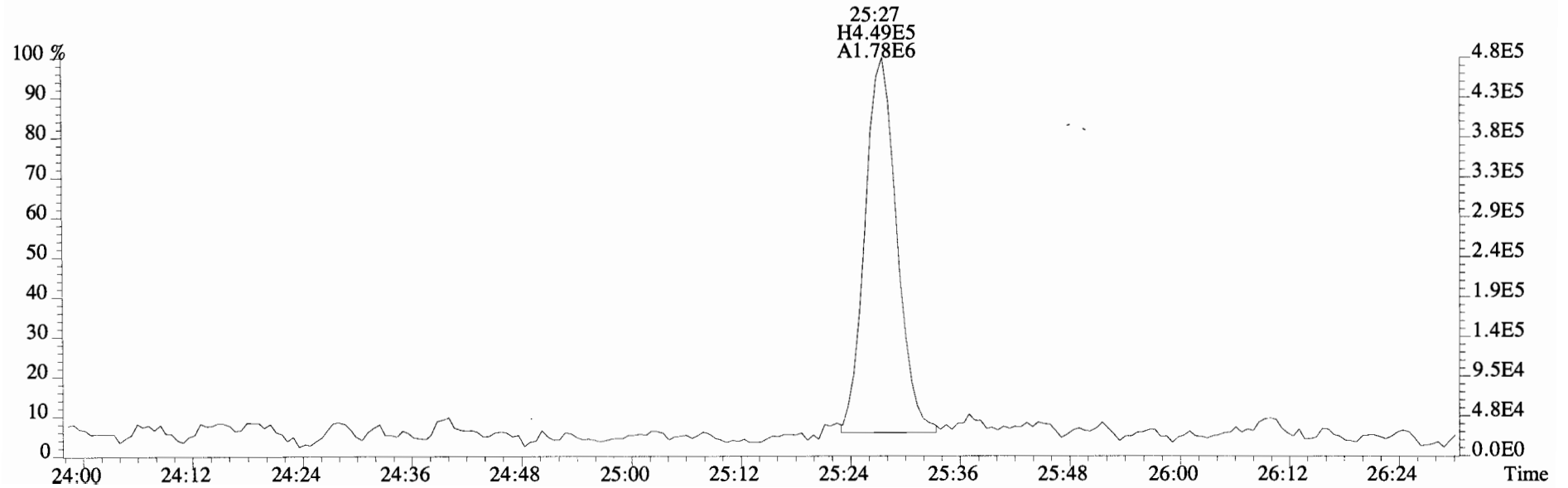
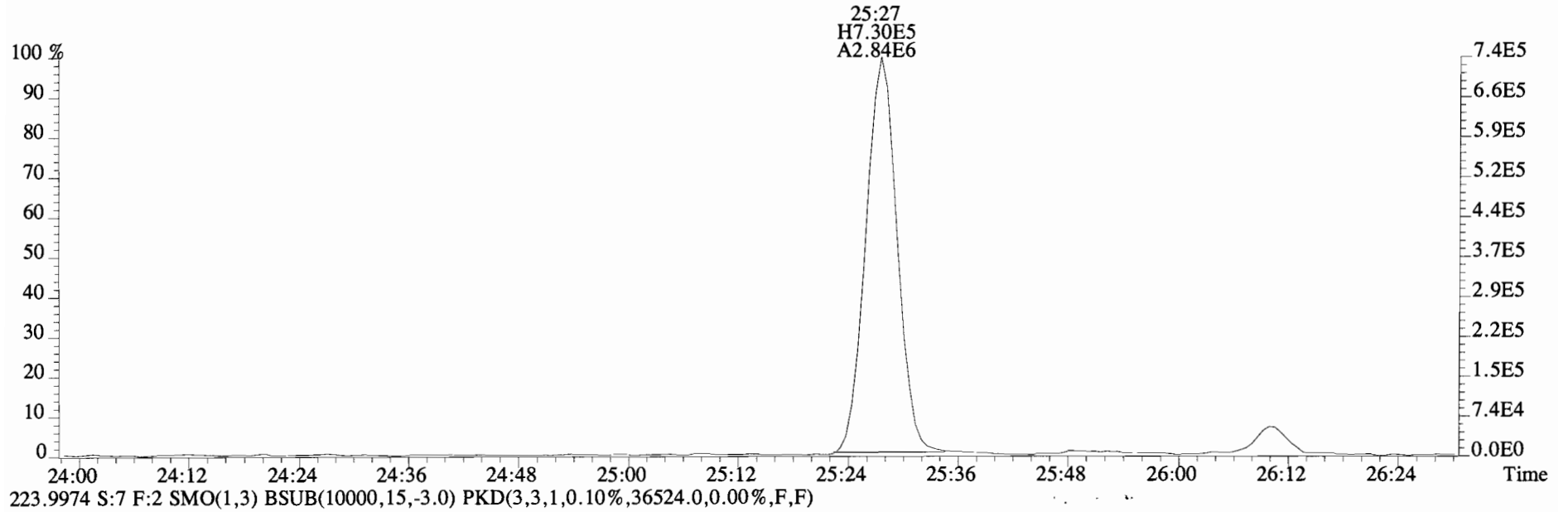
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
200.0795 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6740.0,0.00%,F,F)



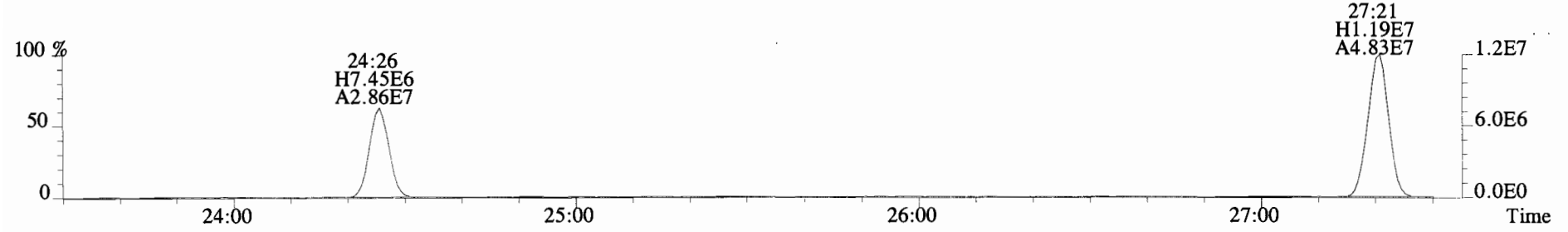
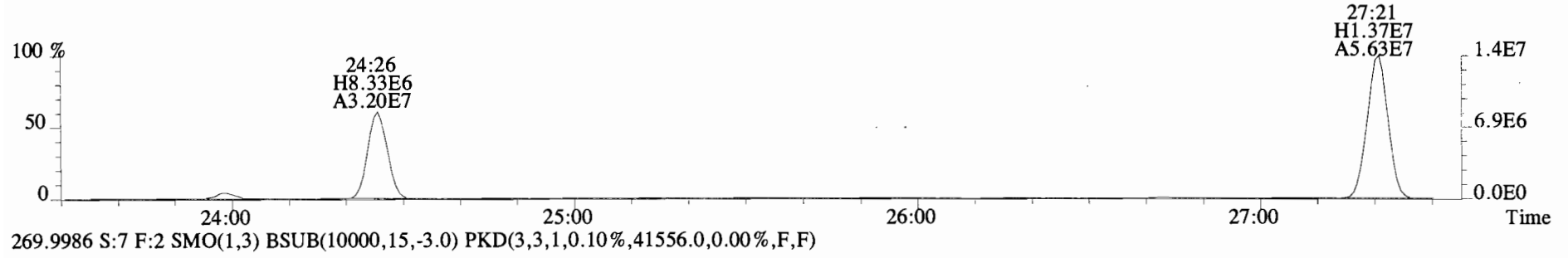
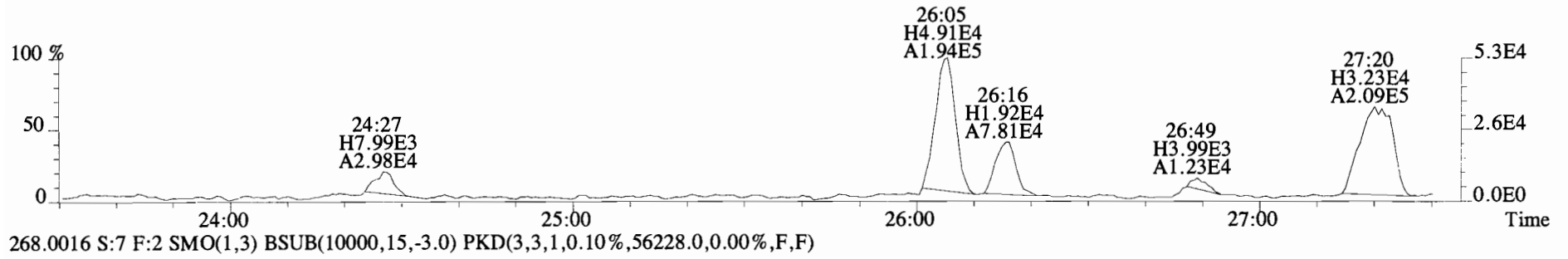
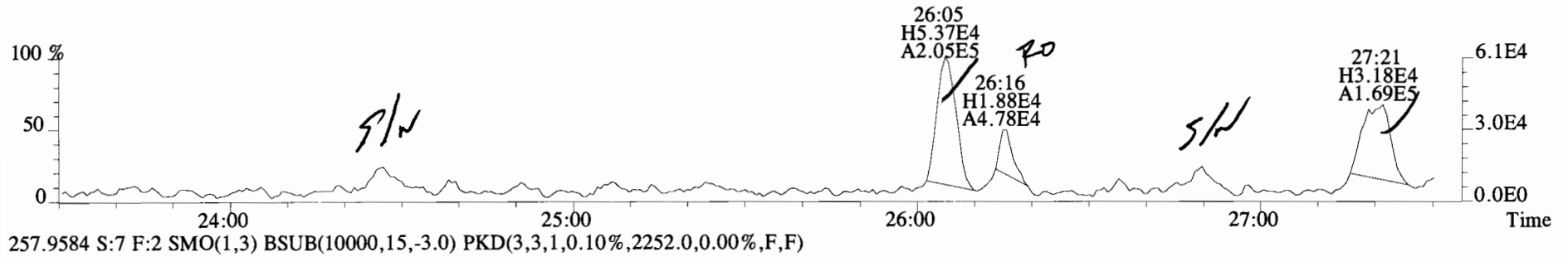
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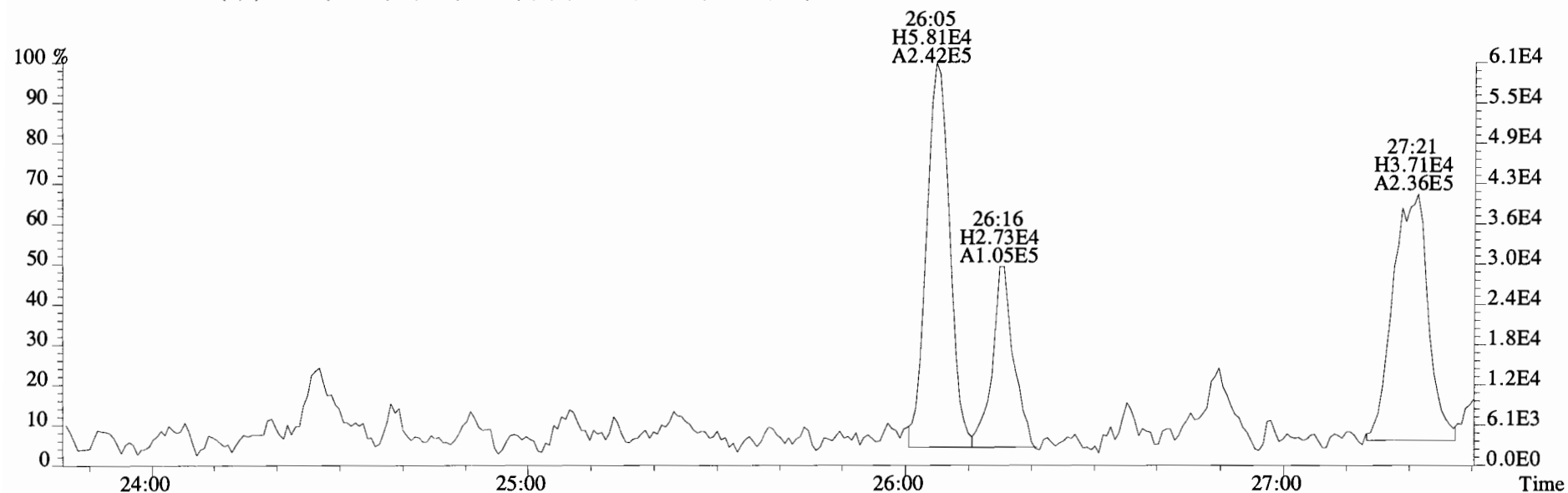
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
222.0003 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3948.0,0.00%,F,F)



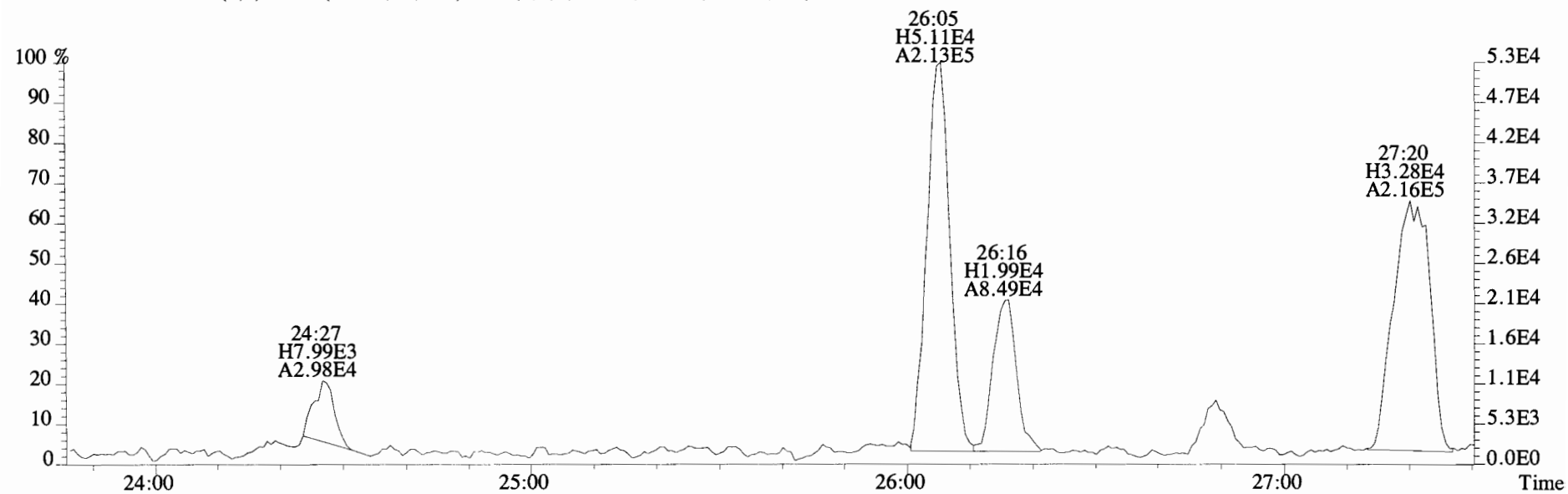
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 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
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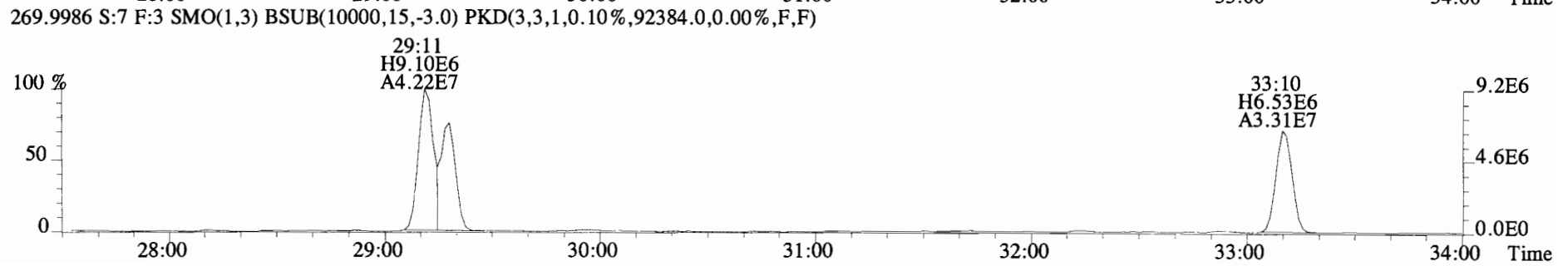
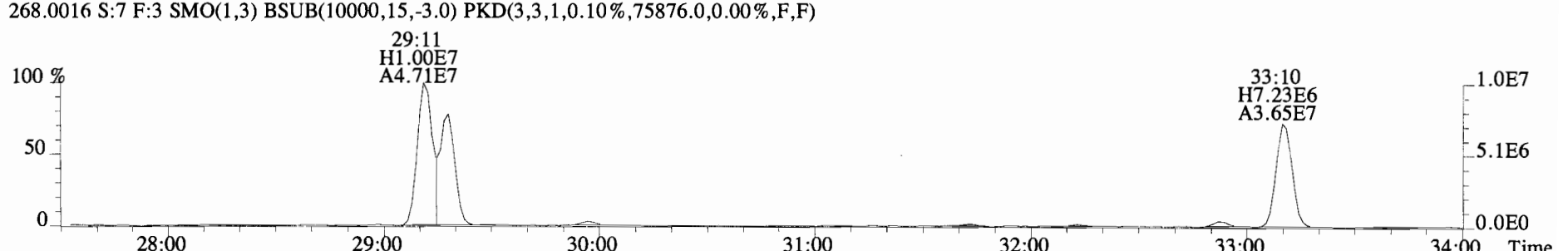
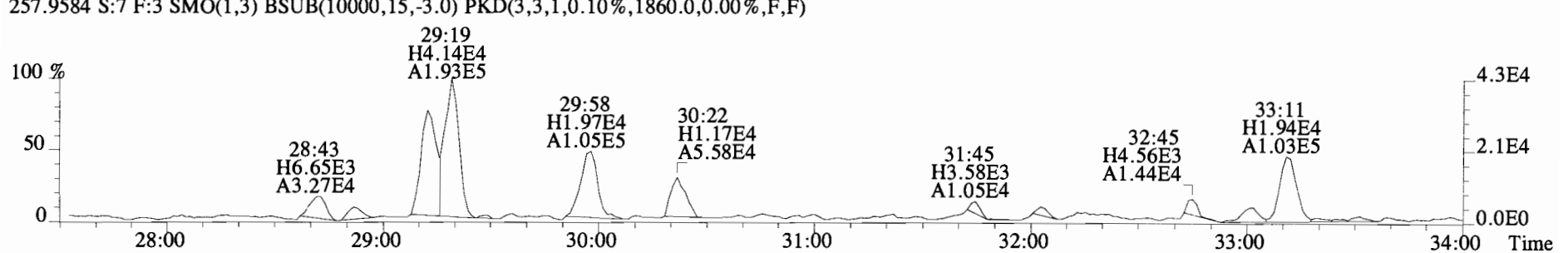
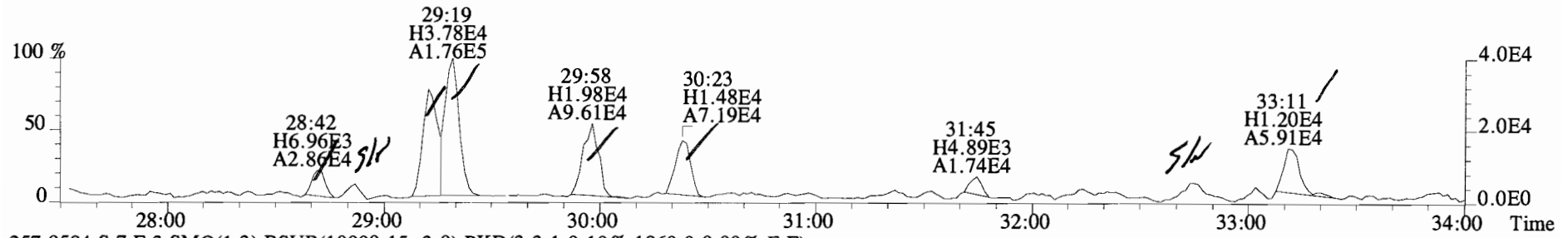
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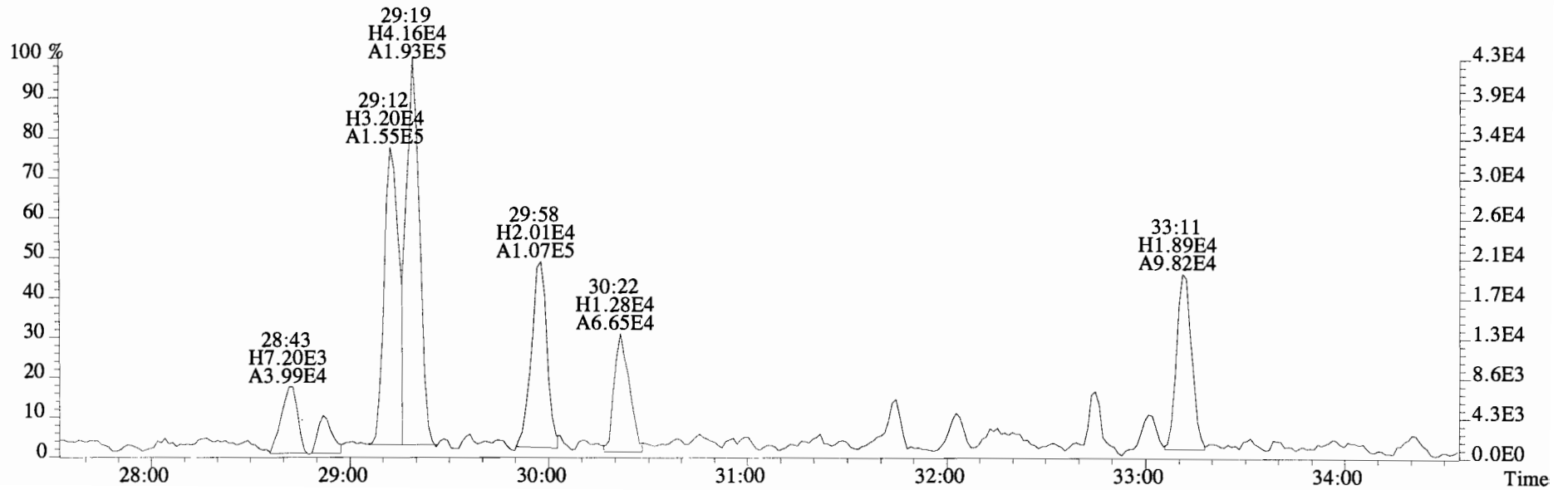
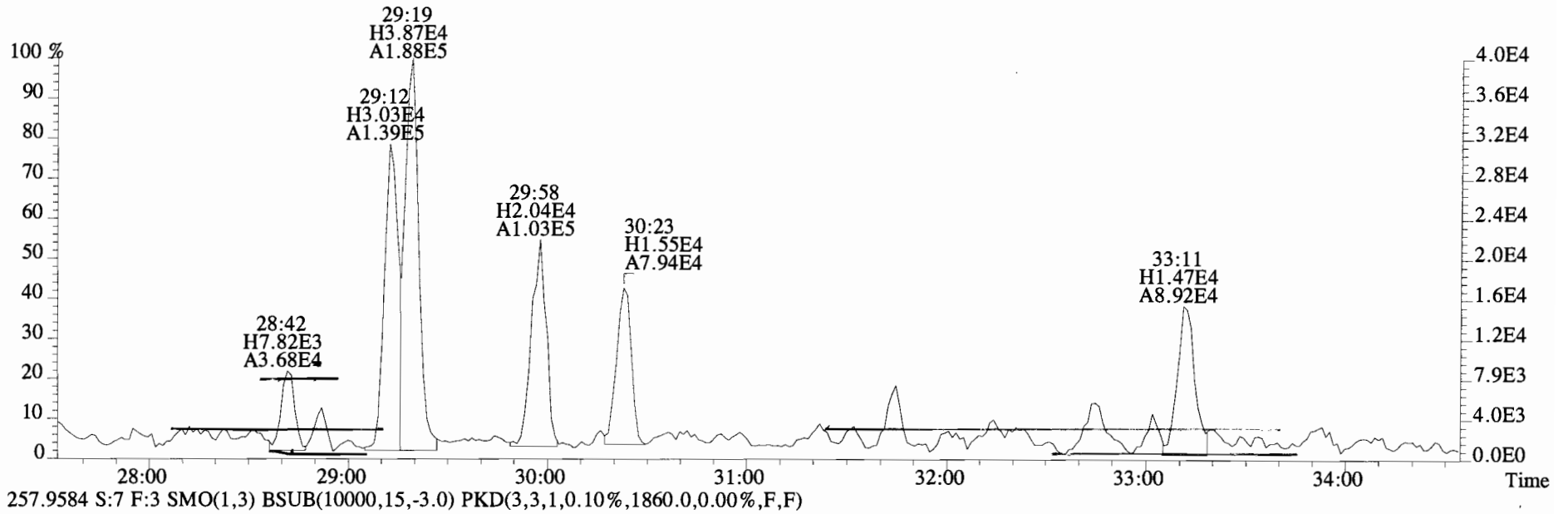
257.9584 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2252.0,0.00%,F,F)



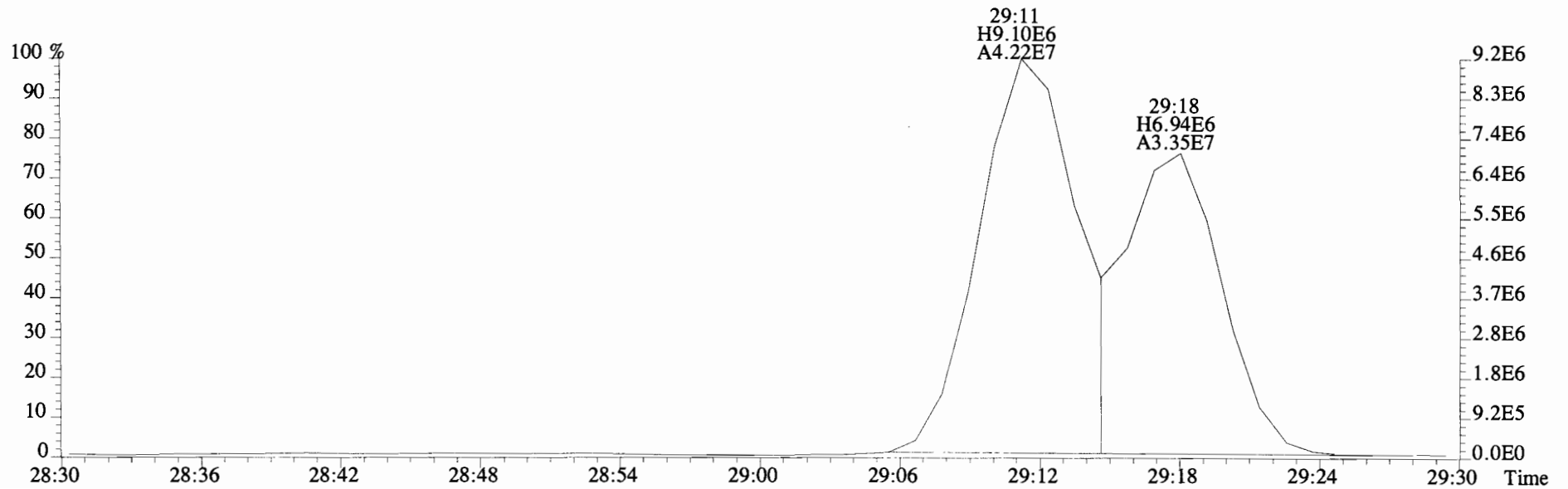
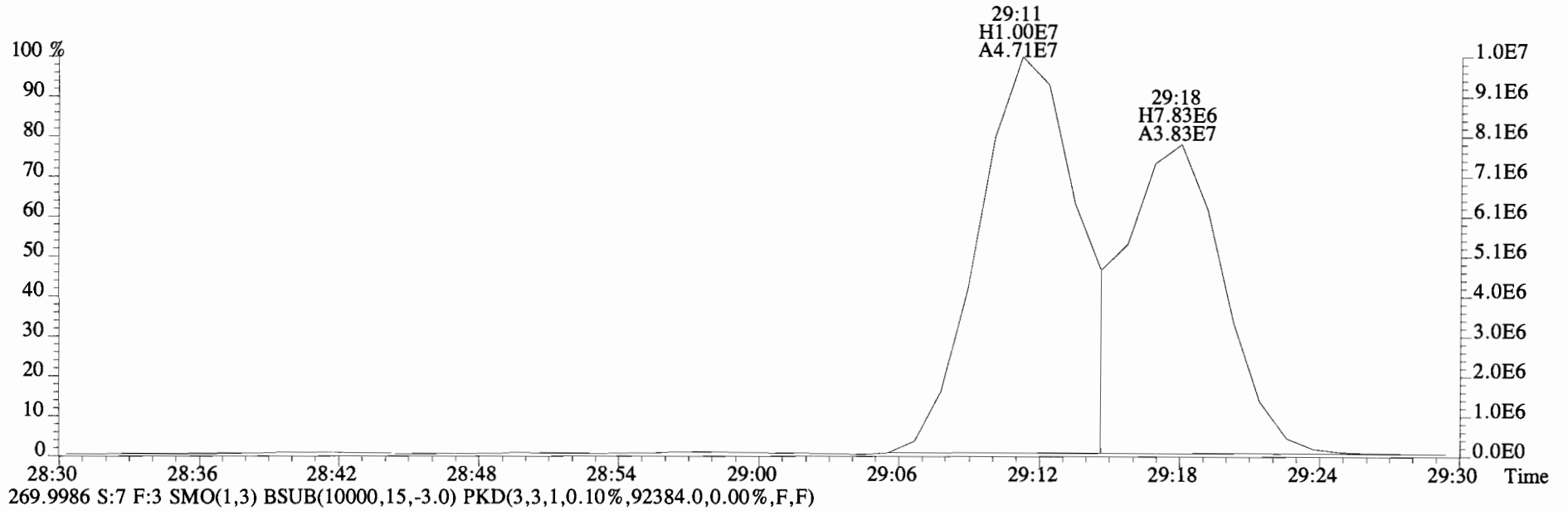
File:140919E1 #1-769 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
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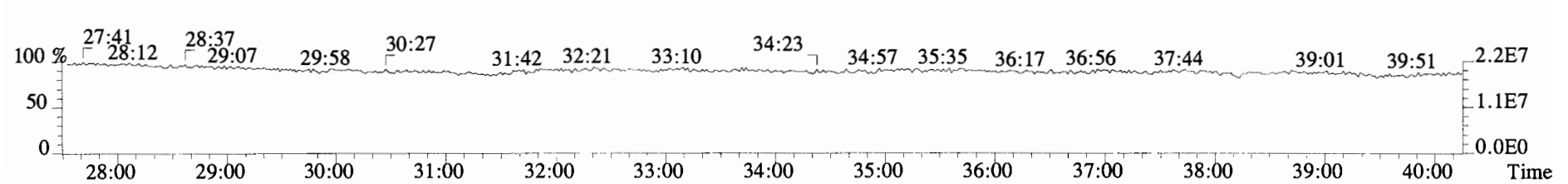
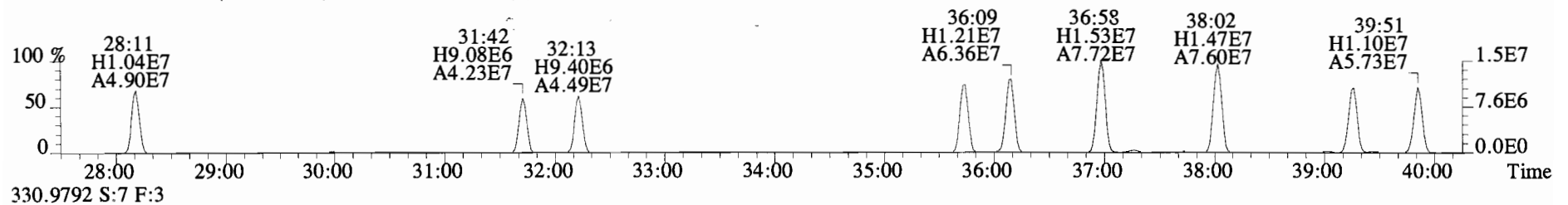
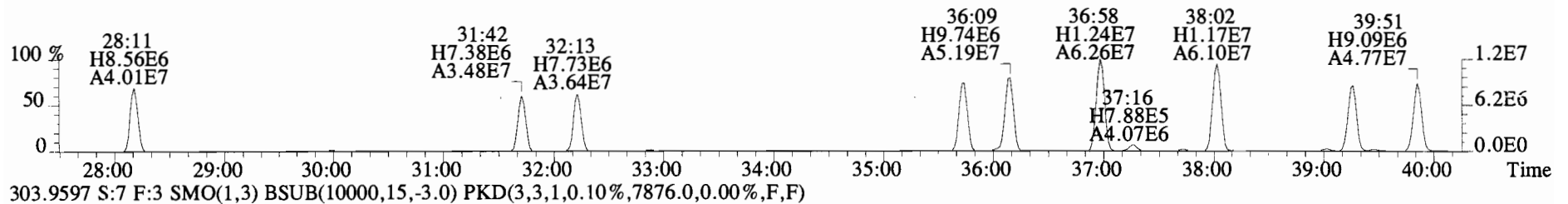
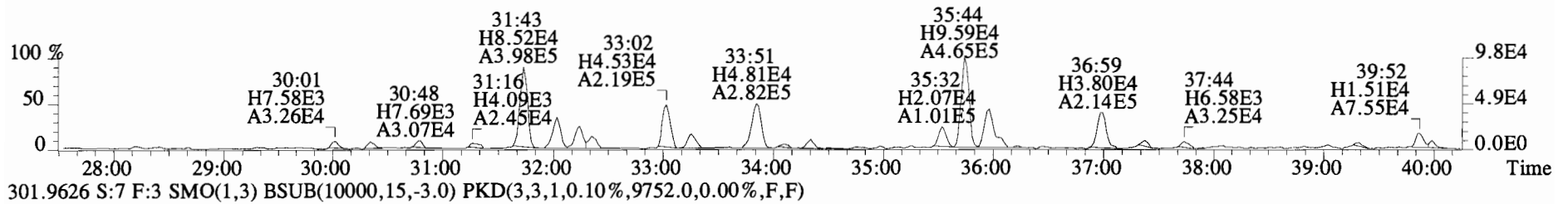
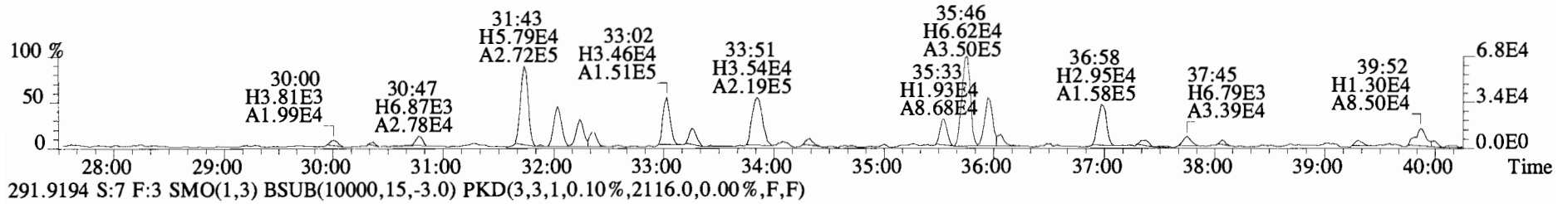
File:140919E1 #1-769 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
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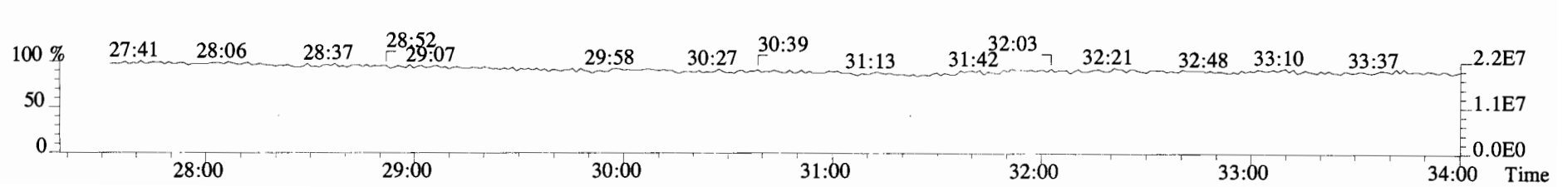
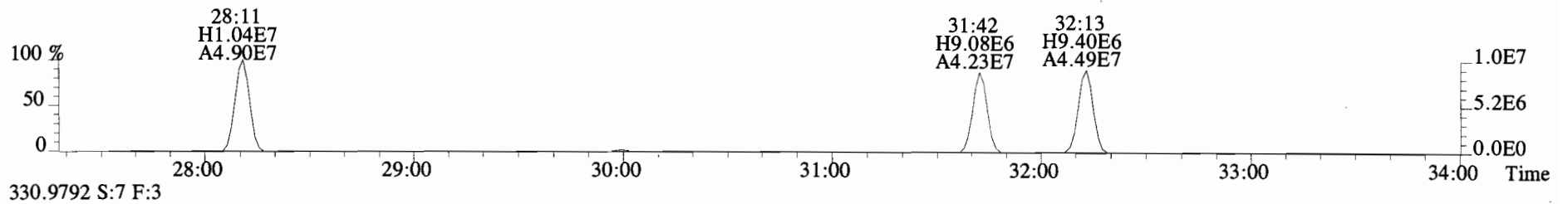
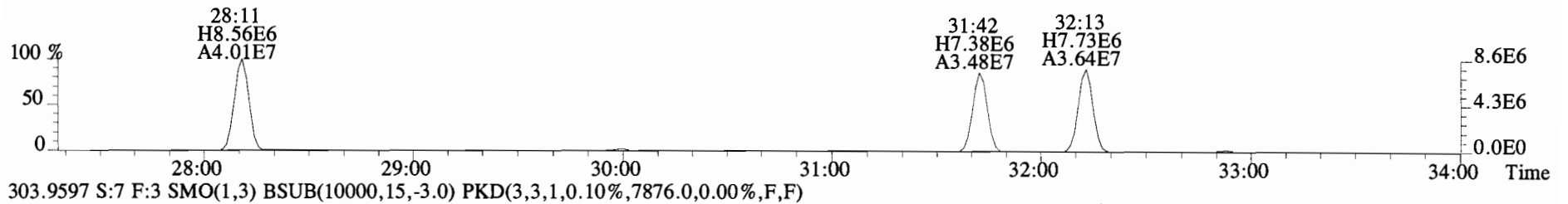
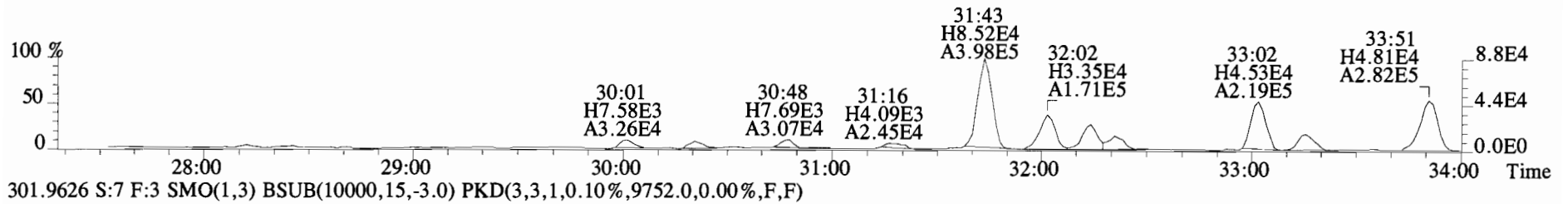
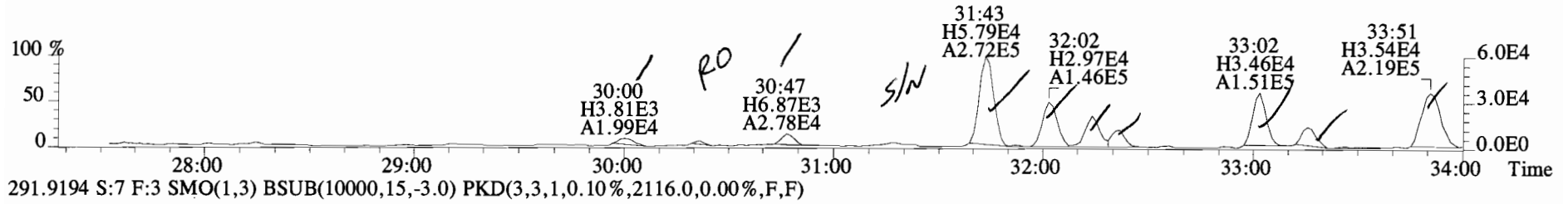
File:140919E1 #1-769 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
268.0016 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,75876.0,0.00%,F,F)



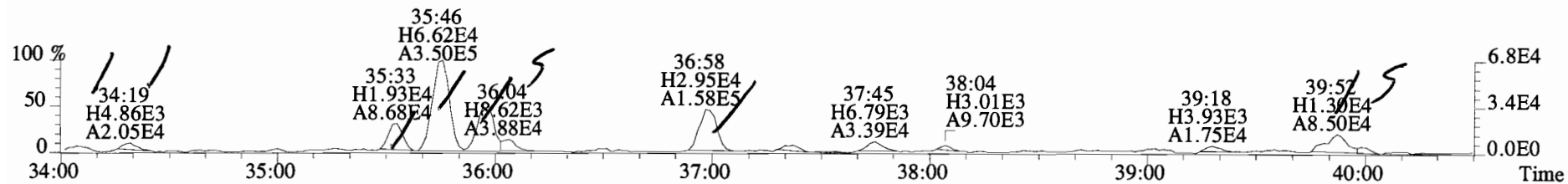
File:140919E1 #1-769 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1956.0,0.00%,F,F)



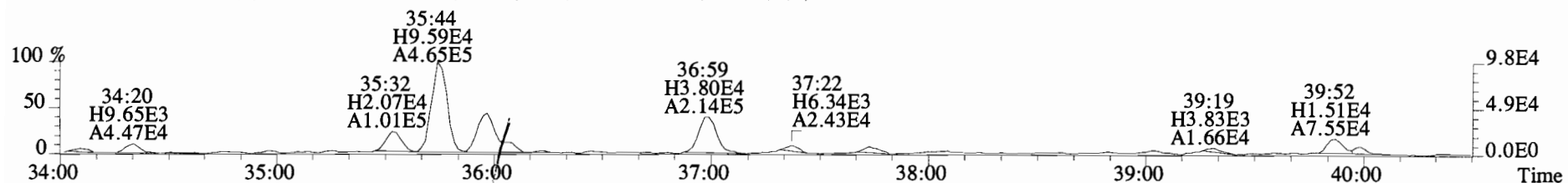
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1956.0,0.00%,F,F)



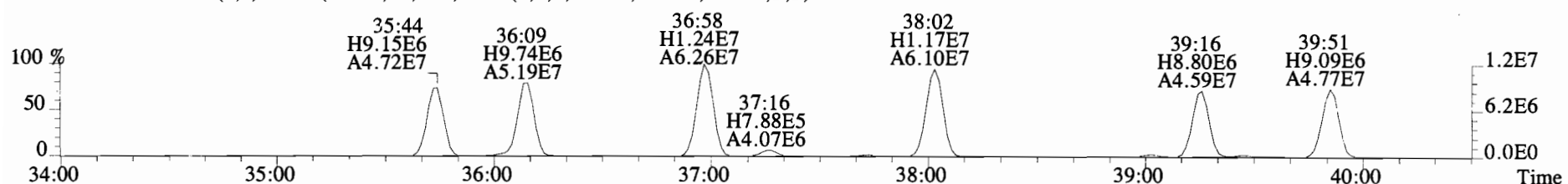
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 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
 289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1956.0,0.00%,F,F)



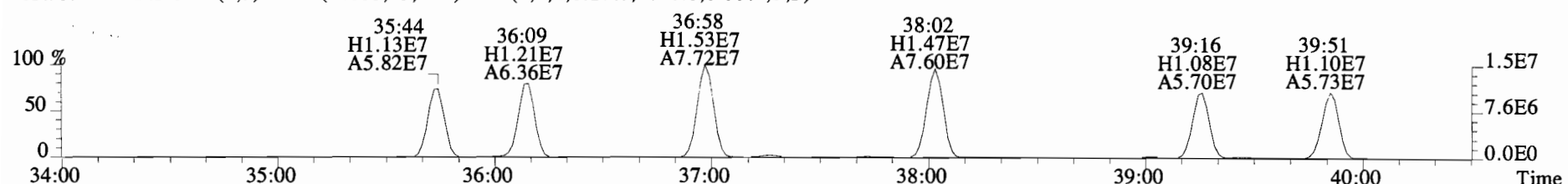
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2116.0,0.00%,F,F)



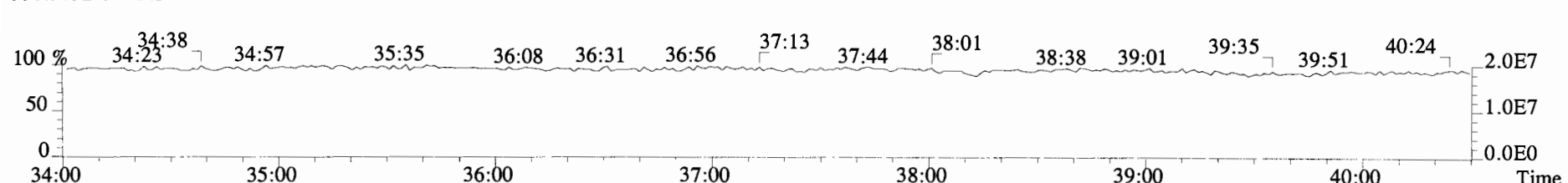
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9752.0,0.00%,F,F)



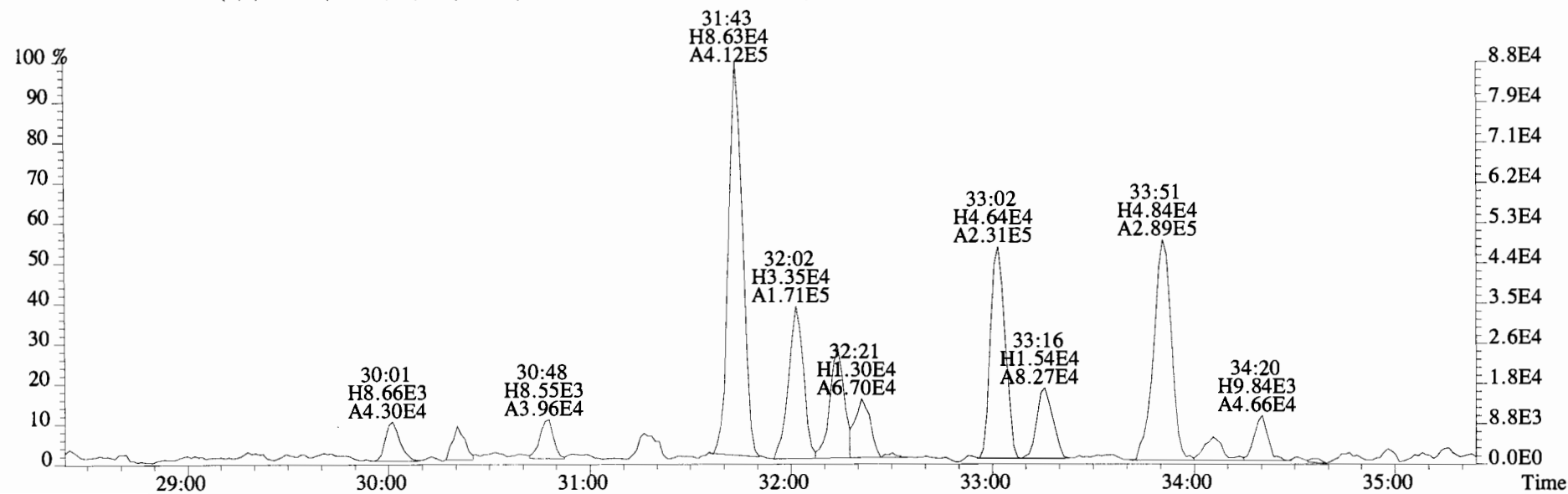
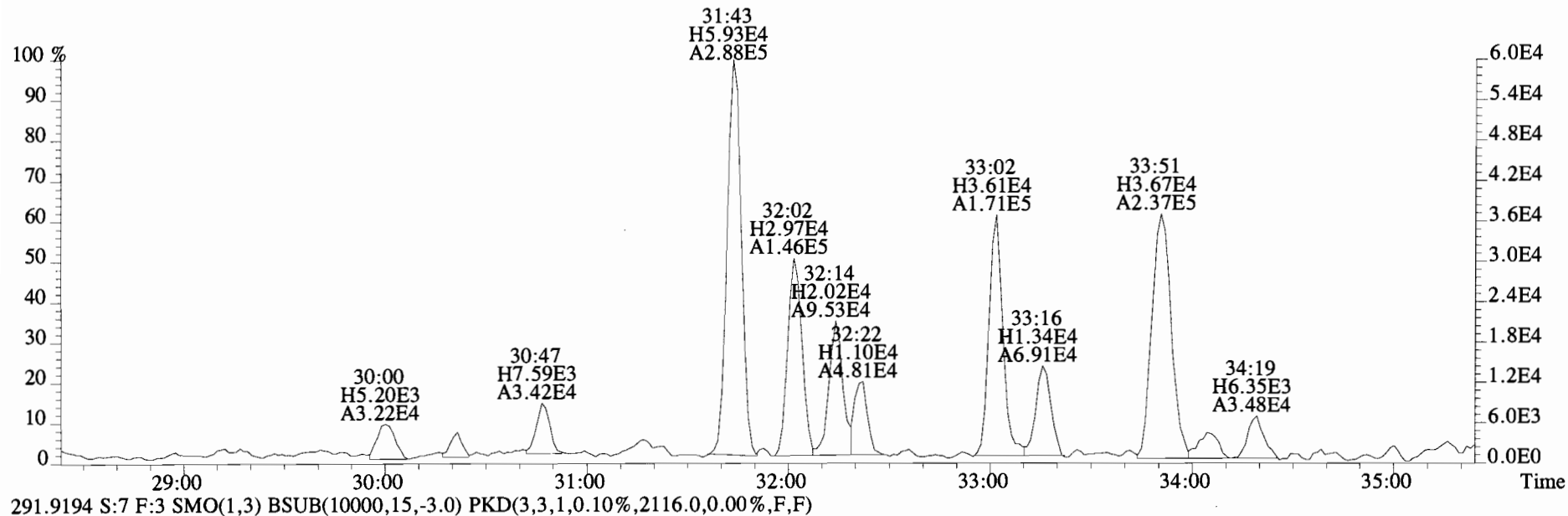
303.9597 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7876.0,0.00%,F,F)



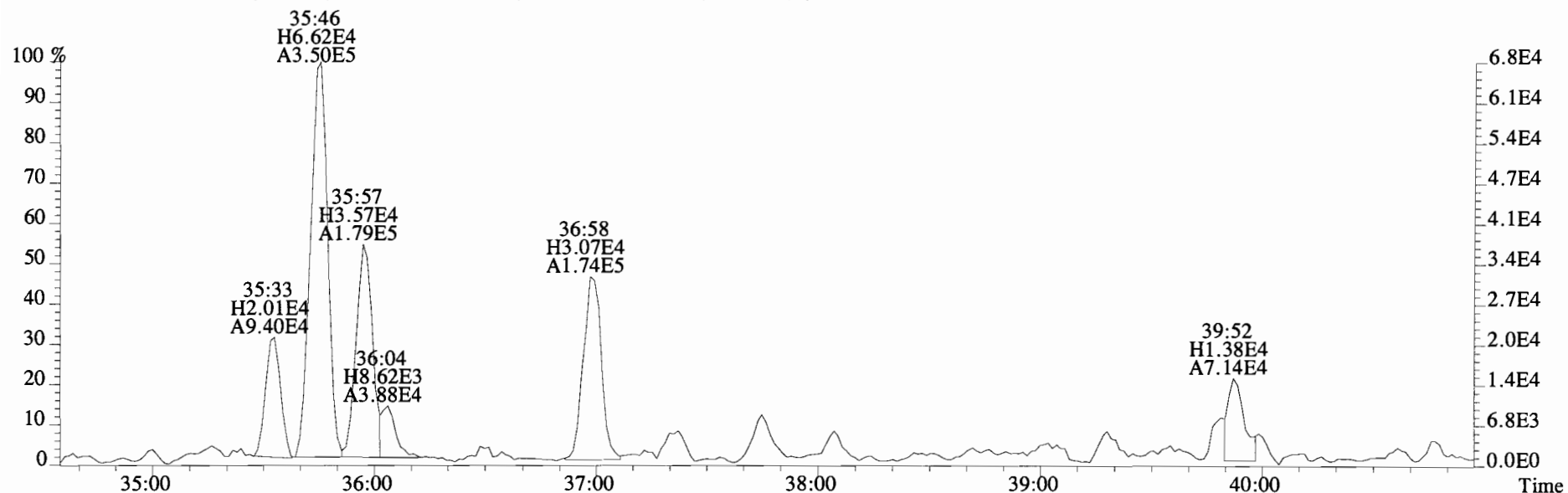
330.9792 S:7 F:3



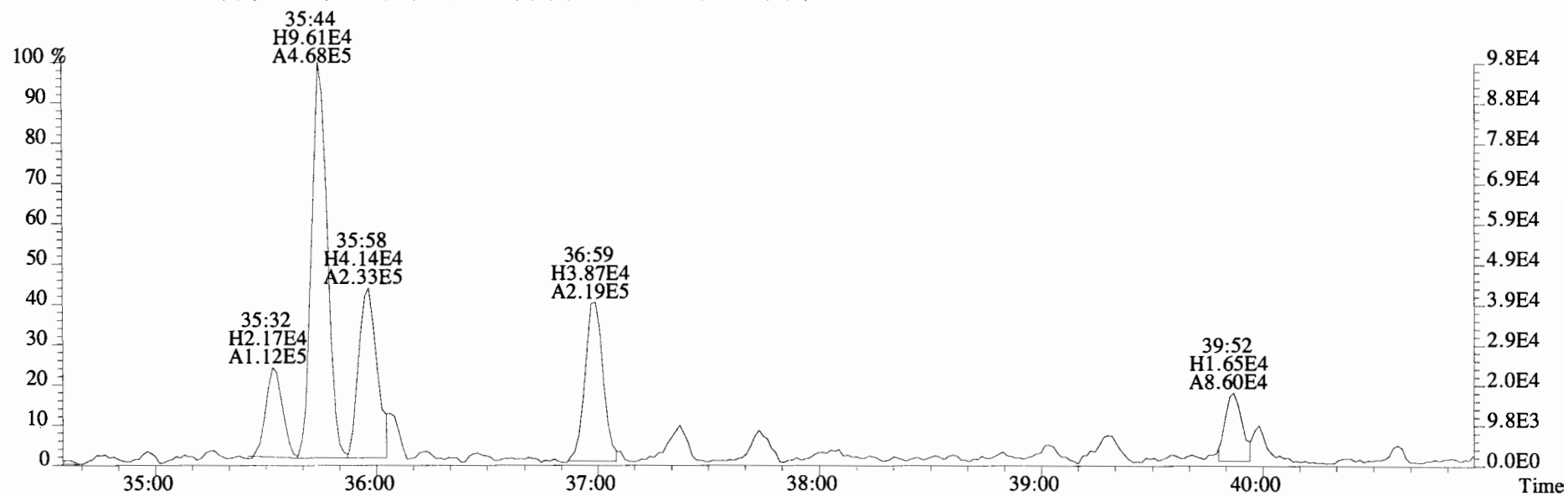
File:140919E1 #1-769 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
 289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1956.0,0.00%,F,F)



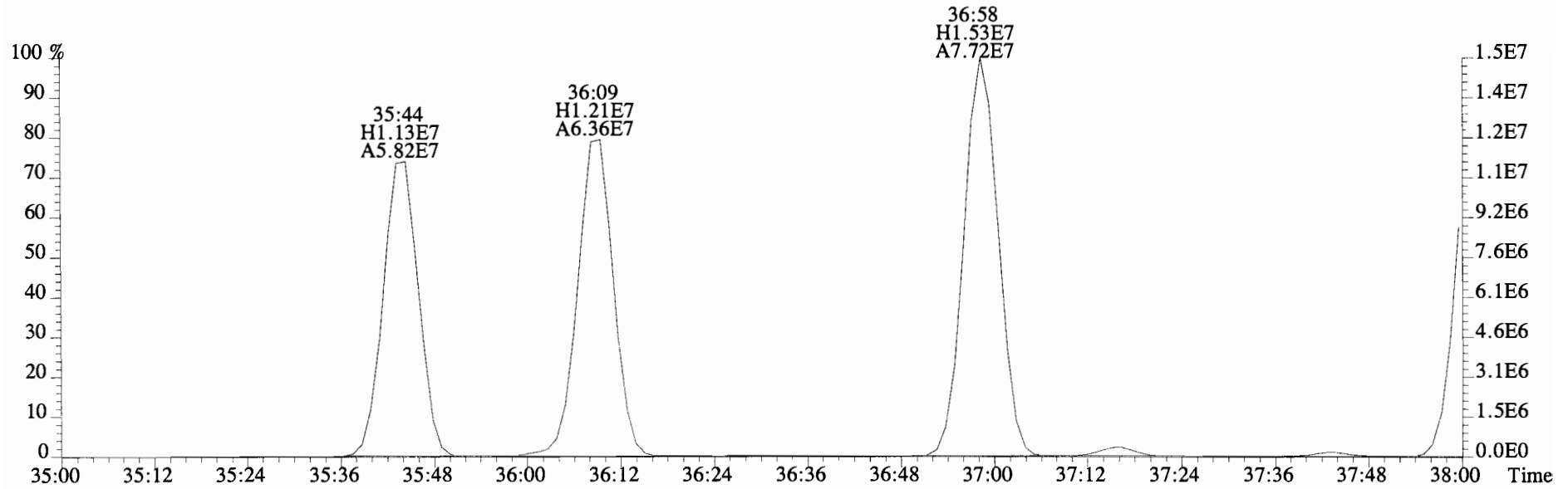
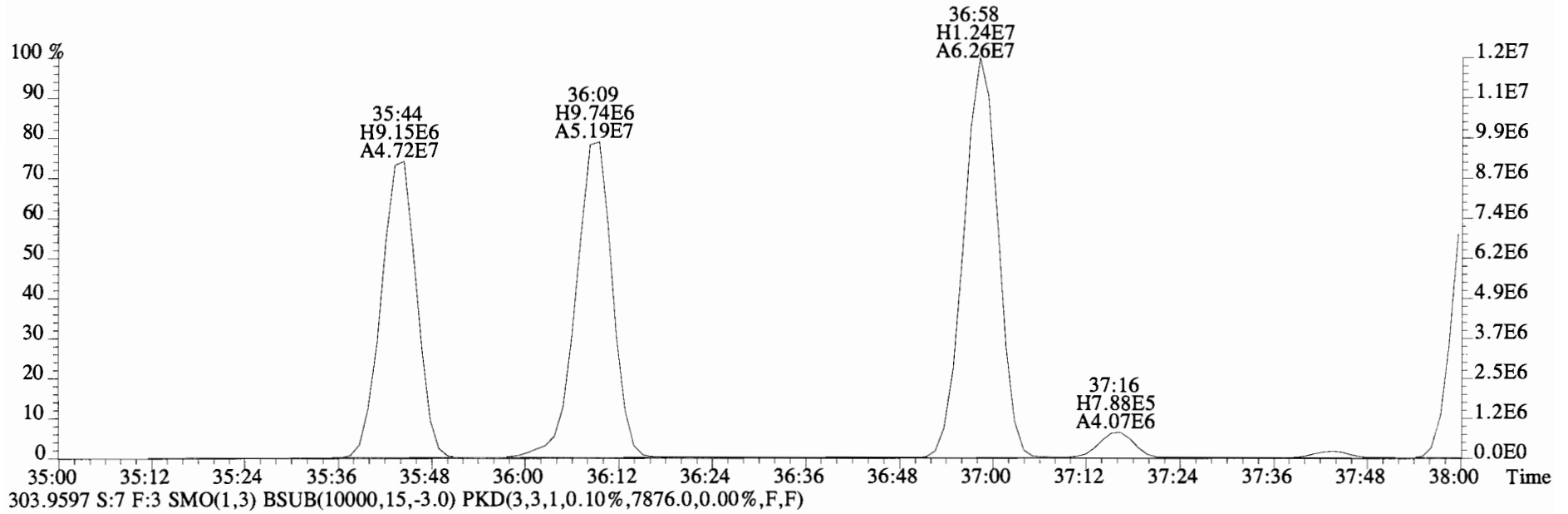
File:140919E1 #1-769 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1956.0,0.00%,F,F)



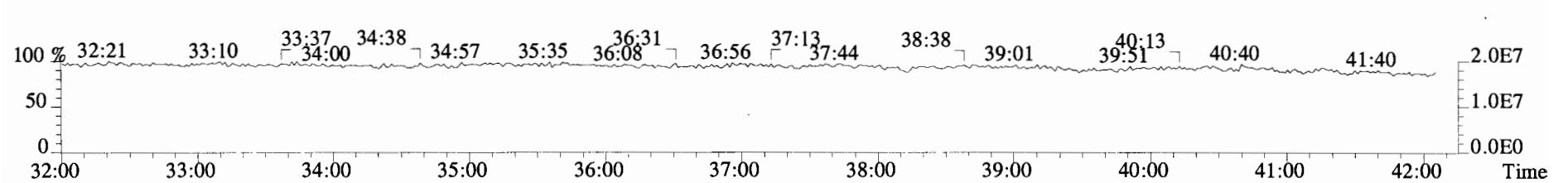
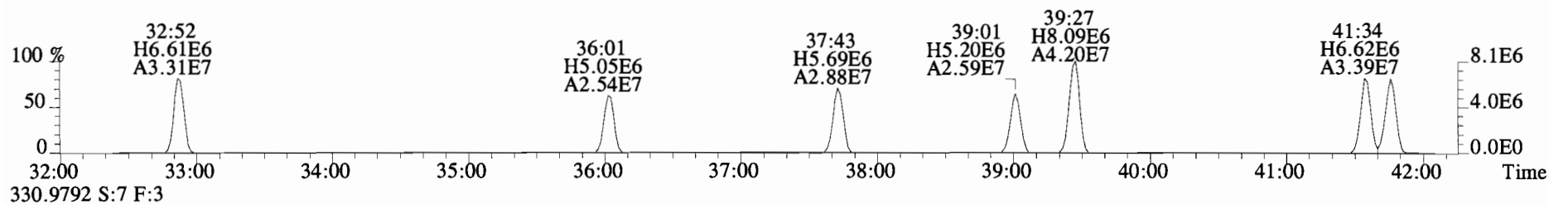
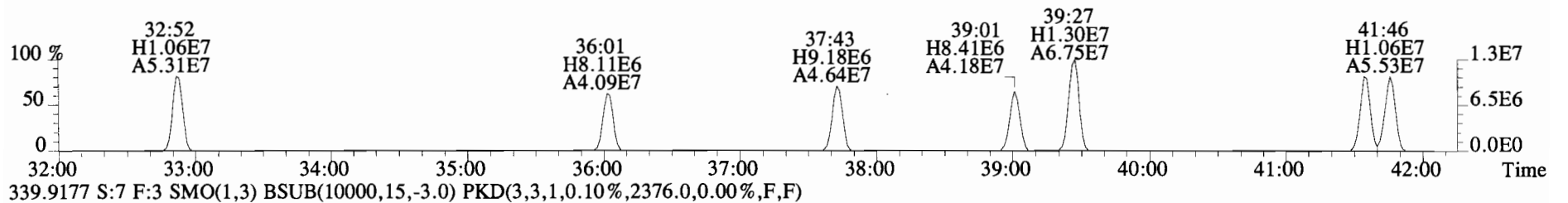
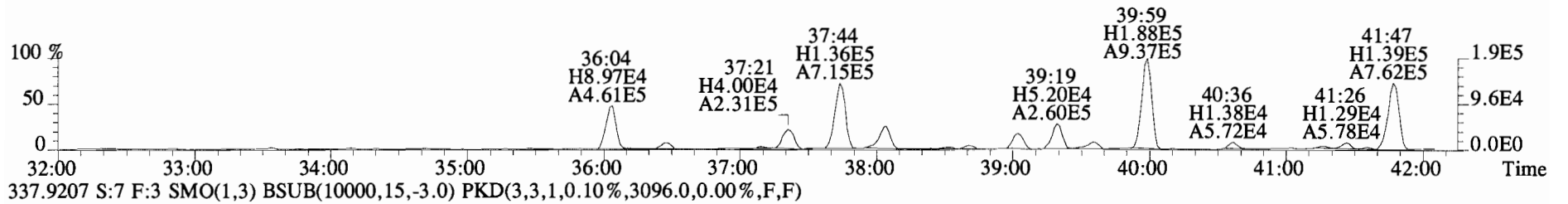
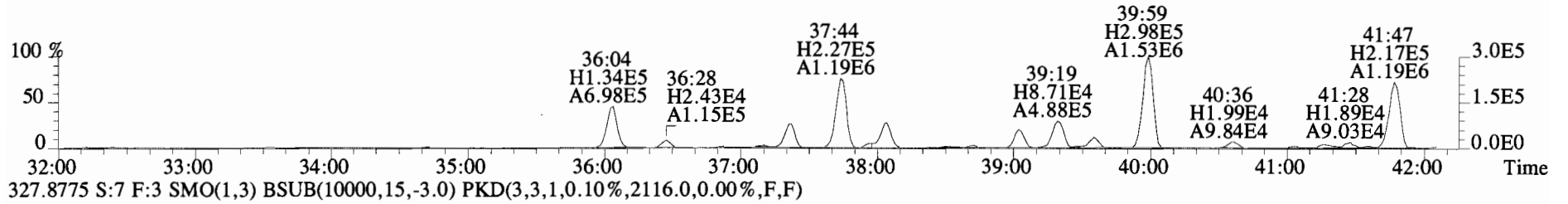
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2116.0,0.00%,F,F)



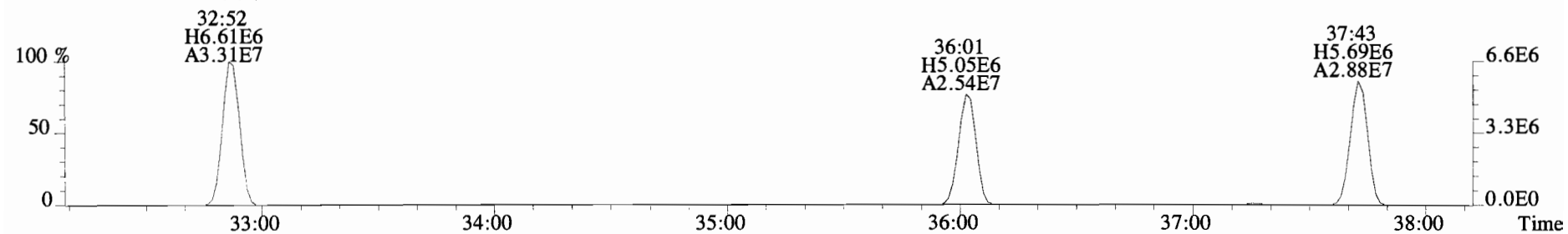
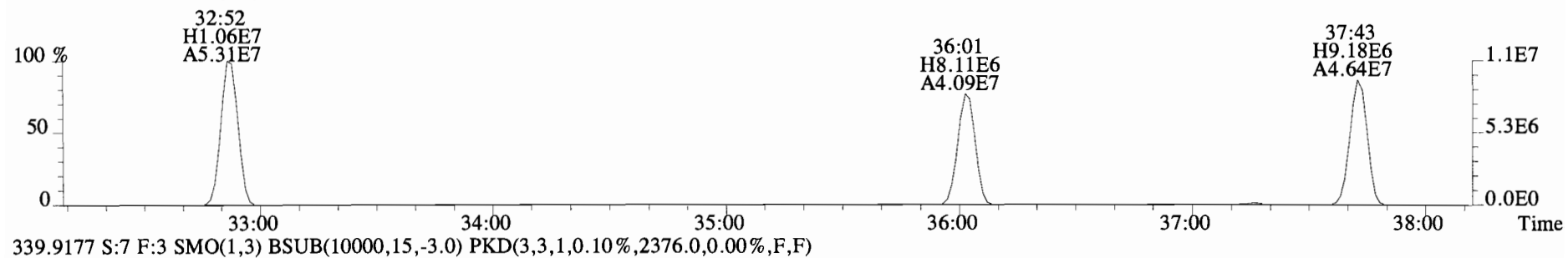
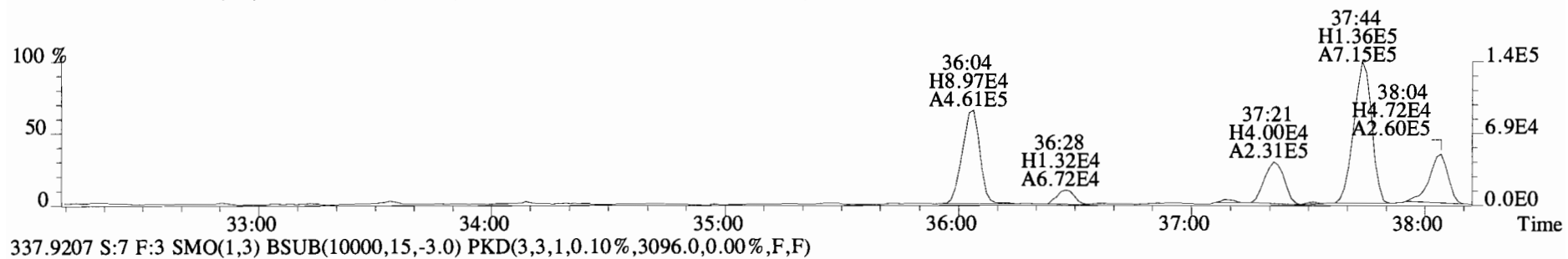
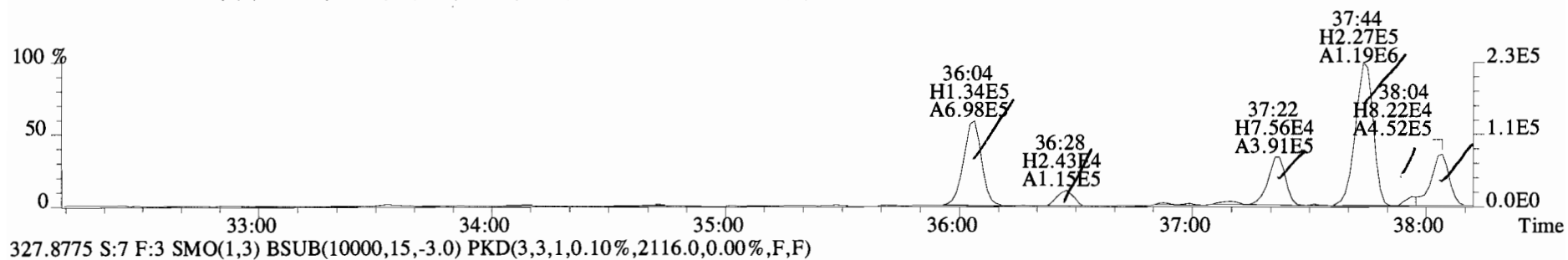
File:140919E1 #1-769 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9752.0,0.00%,F,F)



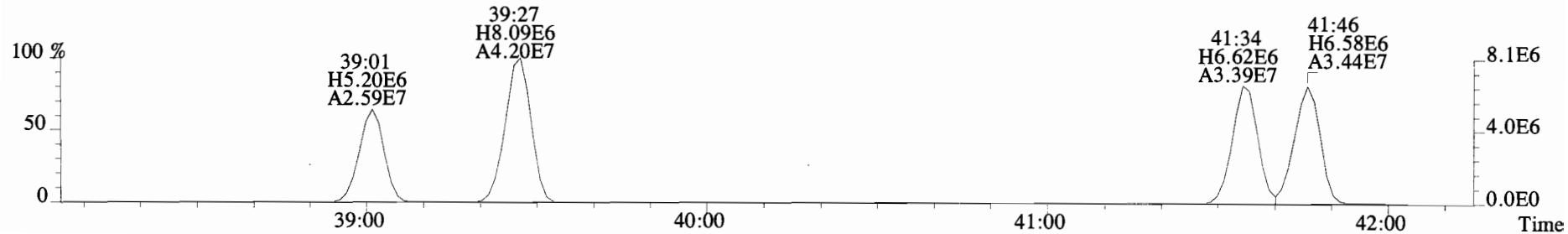
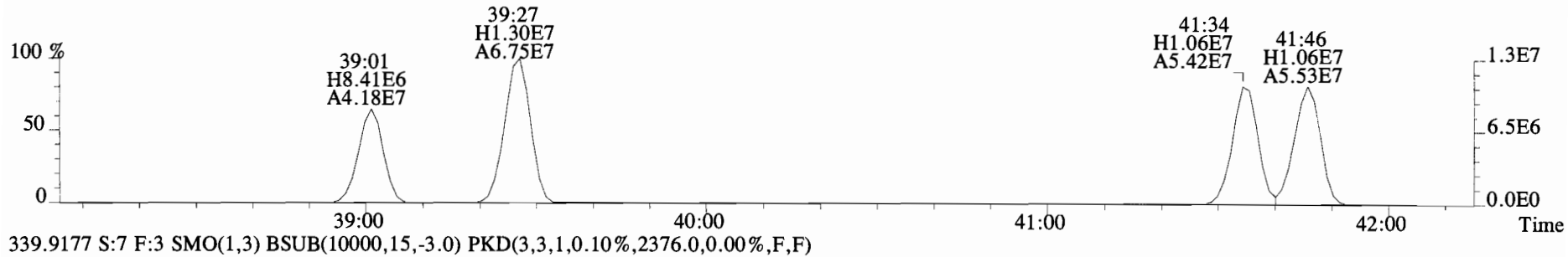
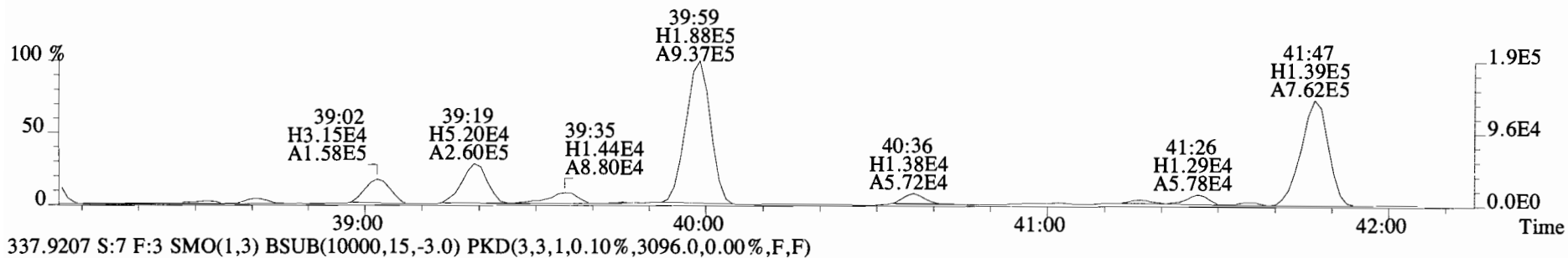
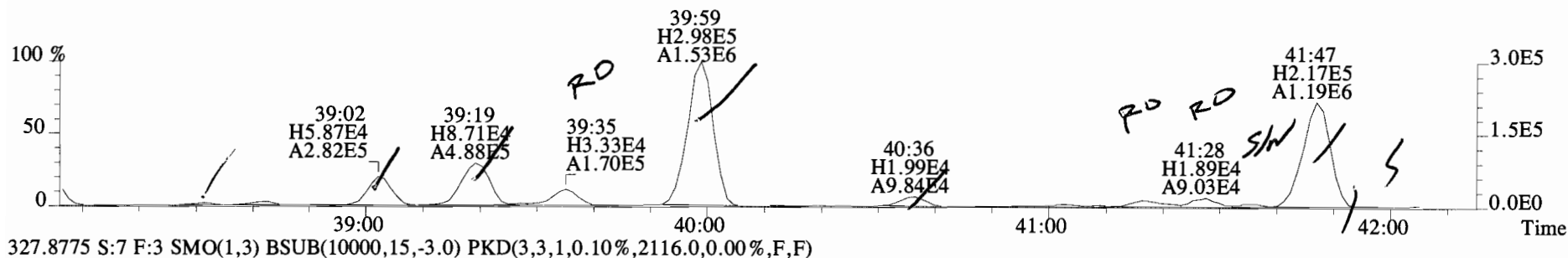
File:140919E1 #1-769 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
 325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1860.0,0.00%,F,F)



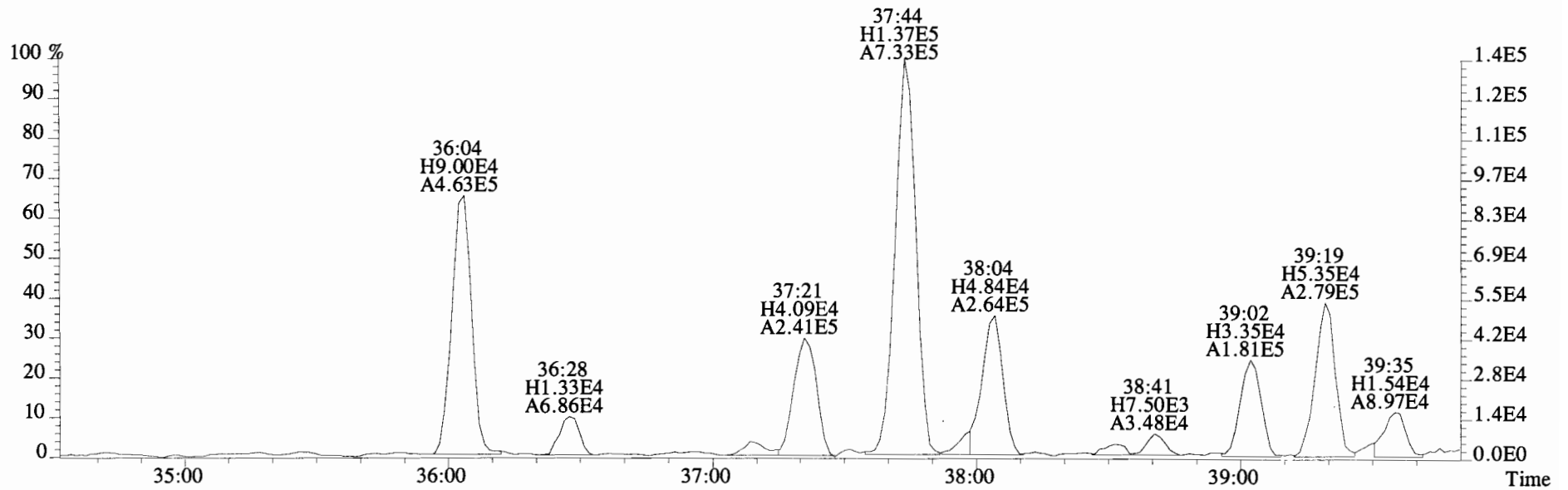
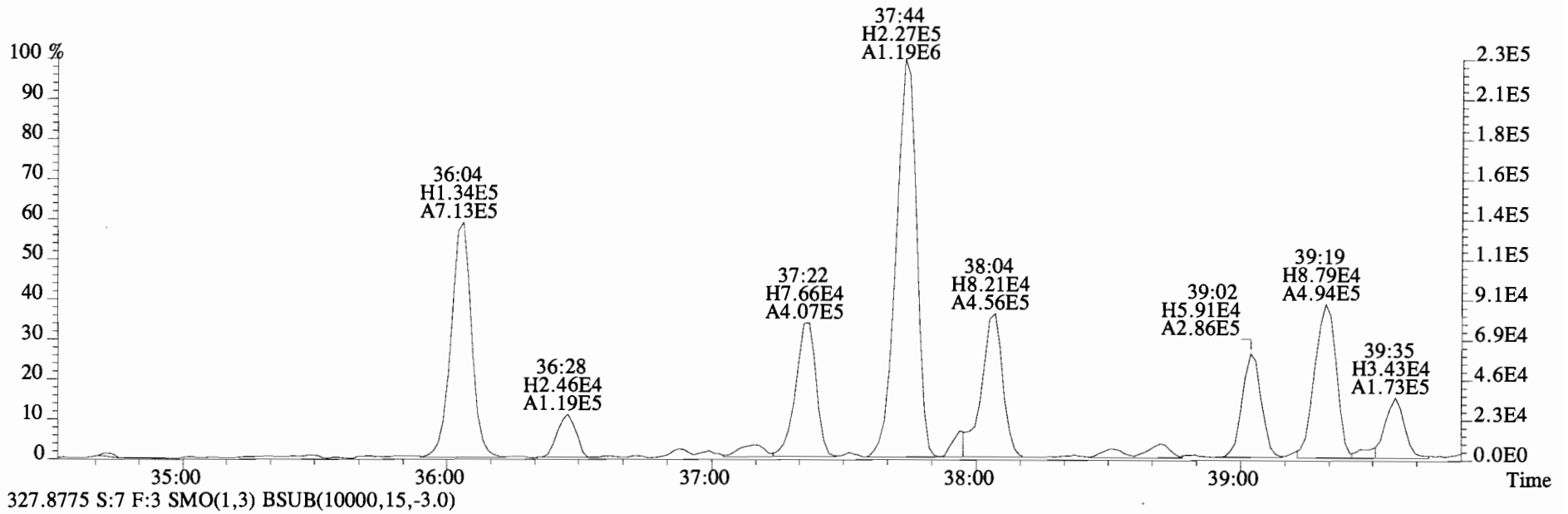
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1860.0,0.00%,F,F)



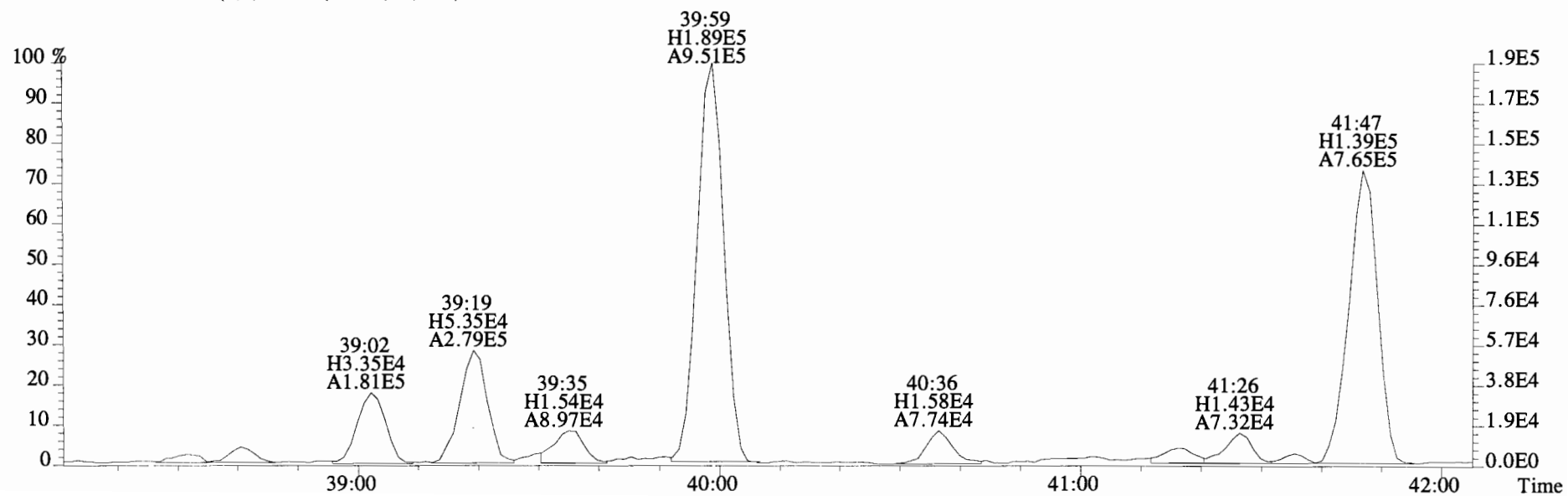
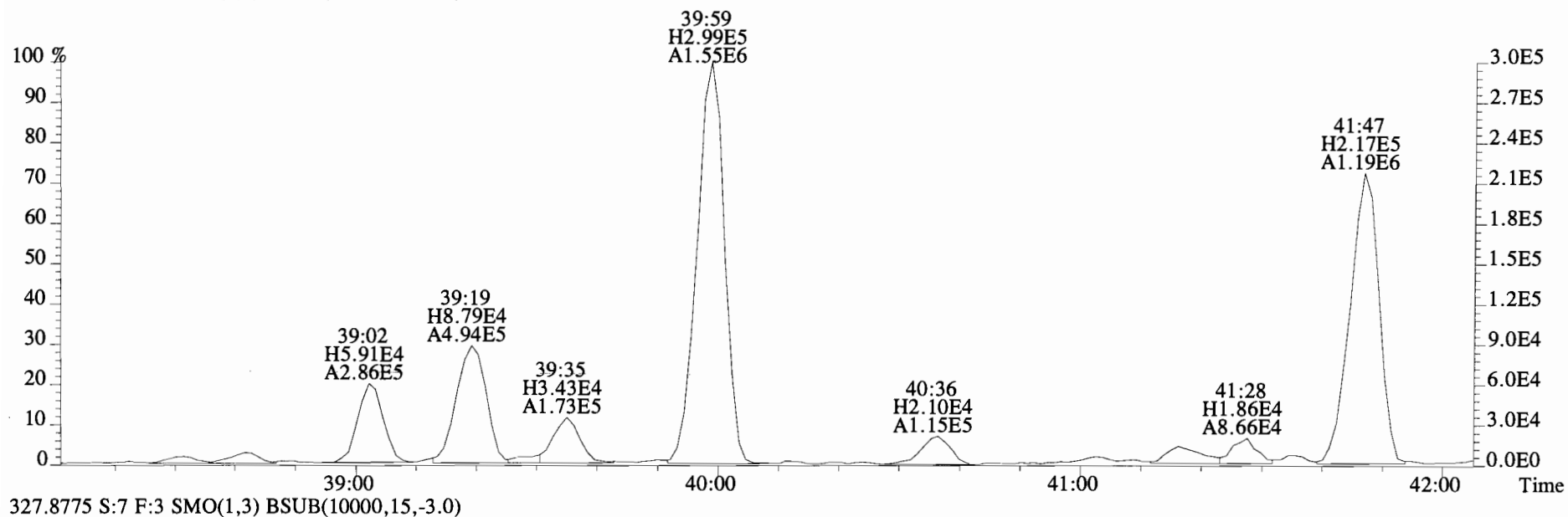
File:140919E1 #1-769 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
 325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1860.0,0.00%,F,F)



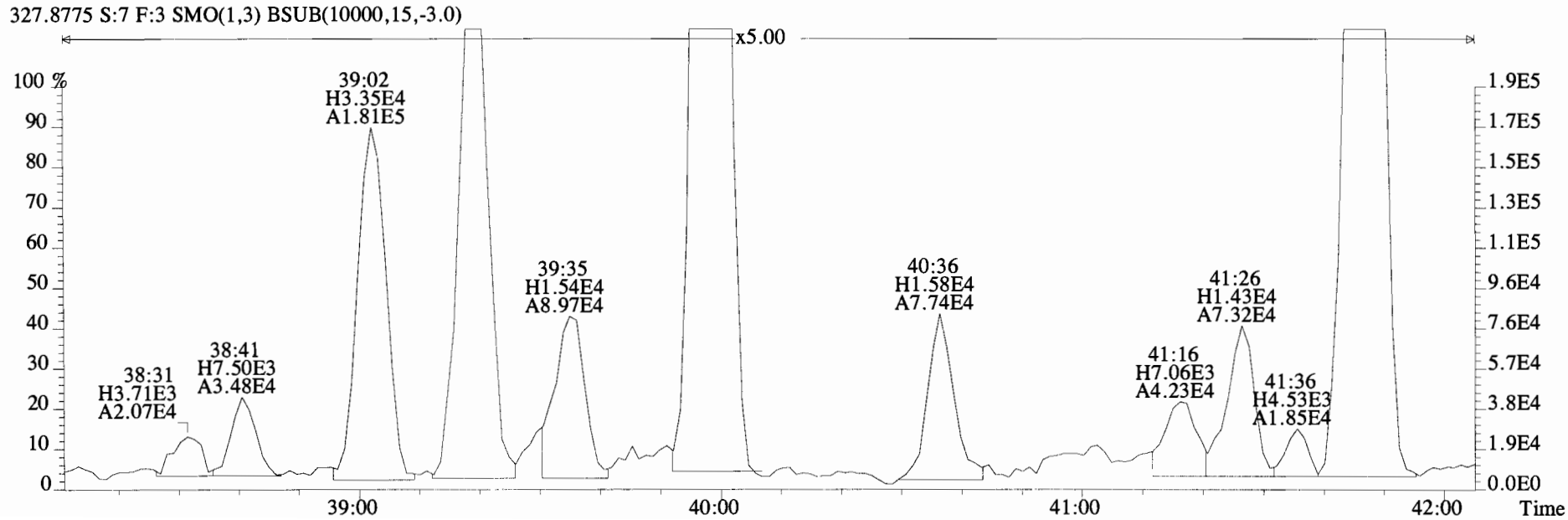
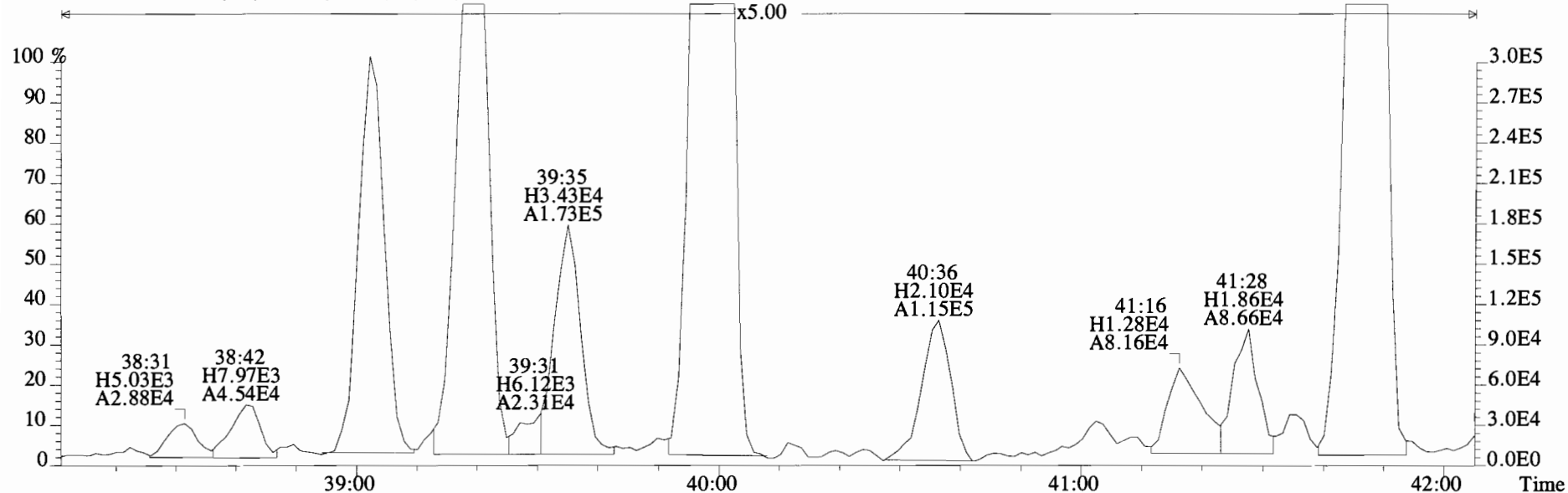
File:140919E1 #1-769 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



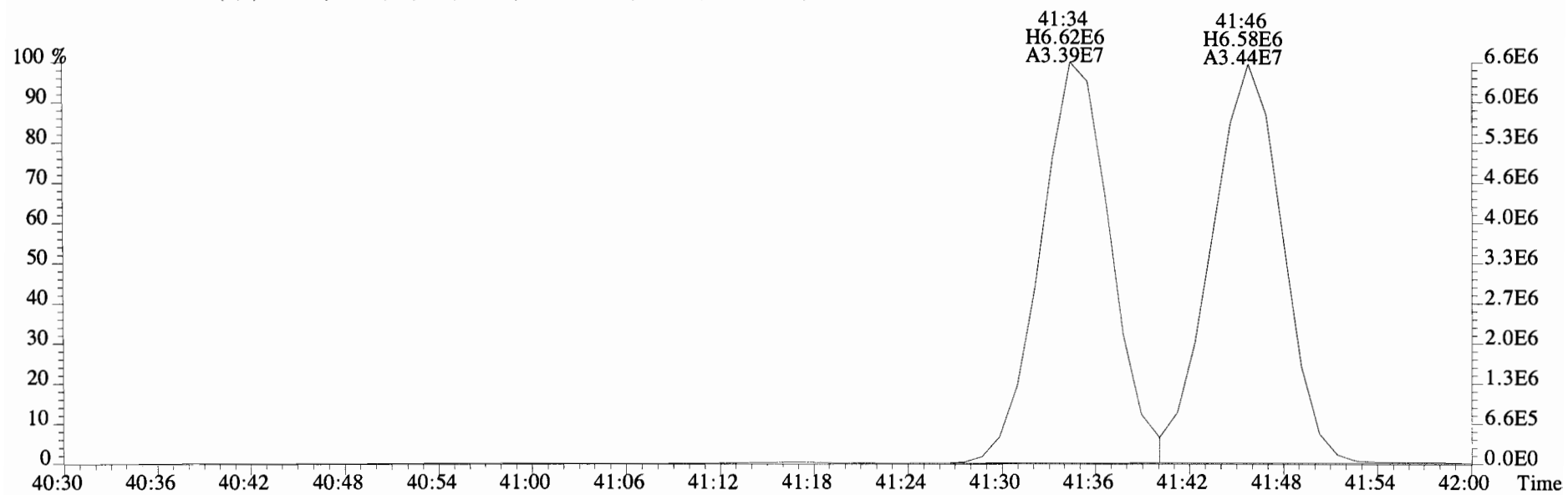
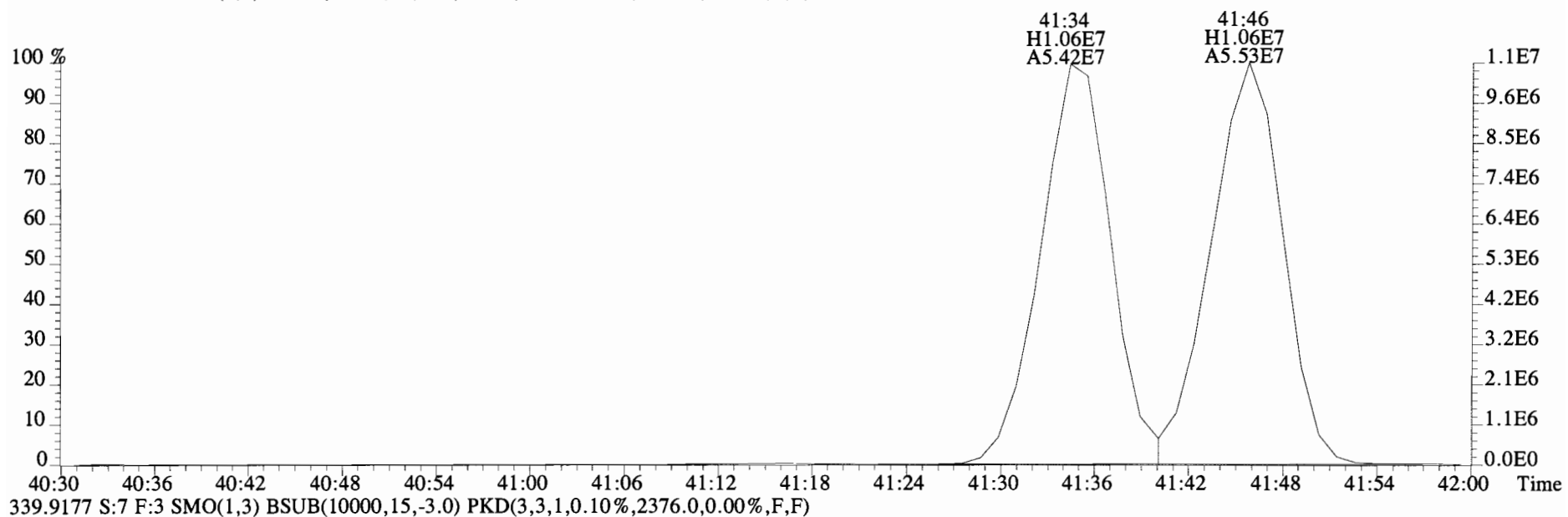
File:140919E1 #1-769 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



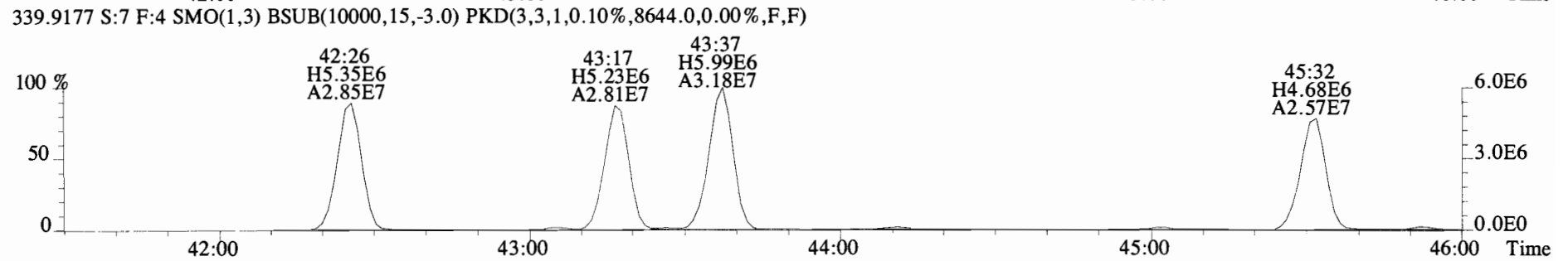
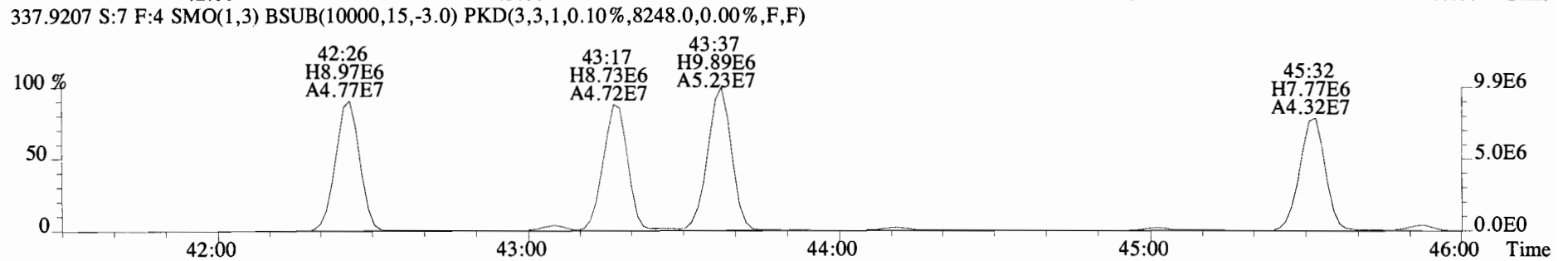
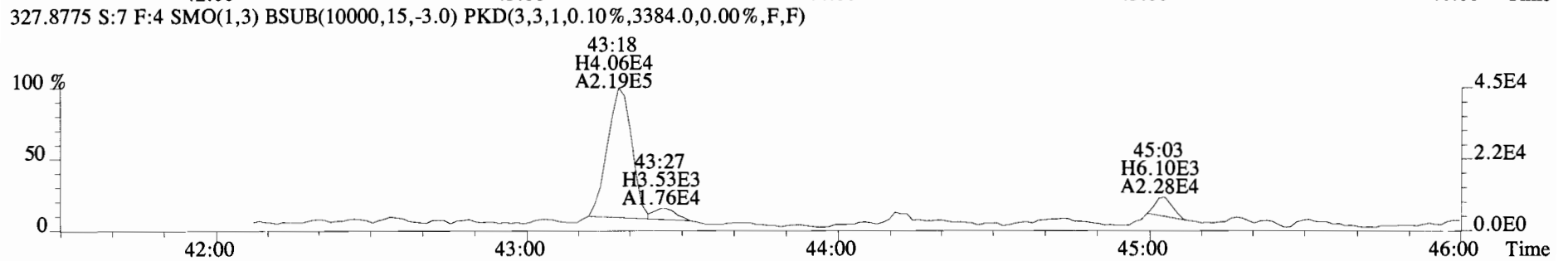
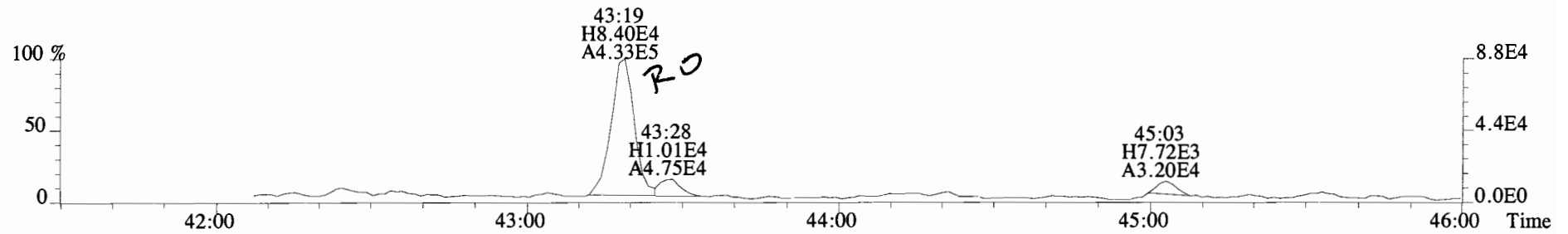
File:140919E1 #1-769 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
 325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



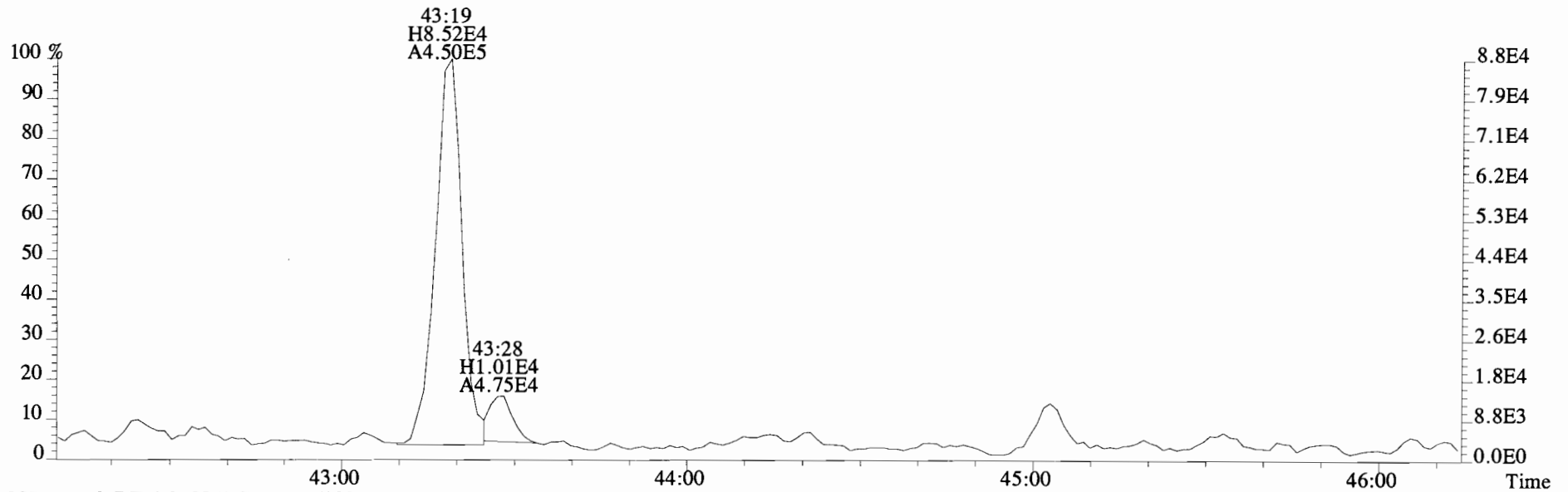
File:140919E1 #1-769 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3096.0,0.00%,F,F)



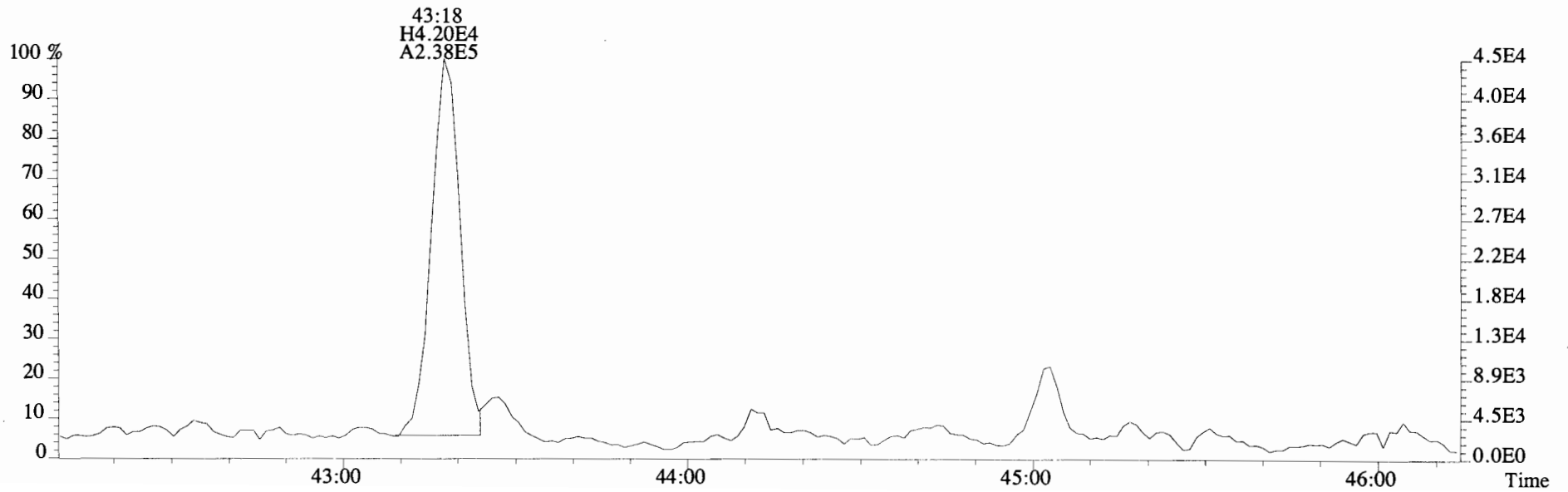
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Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
325.8804 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4836.0,0.00%,F,F)



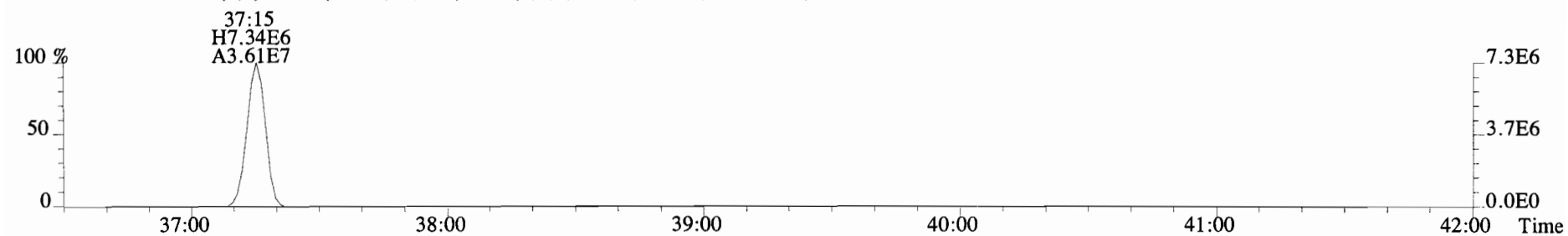
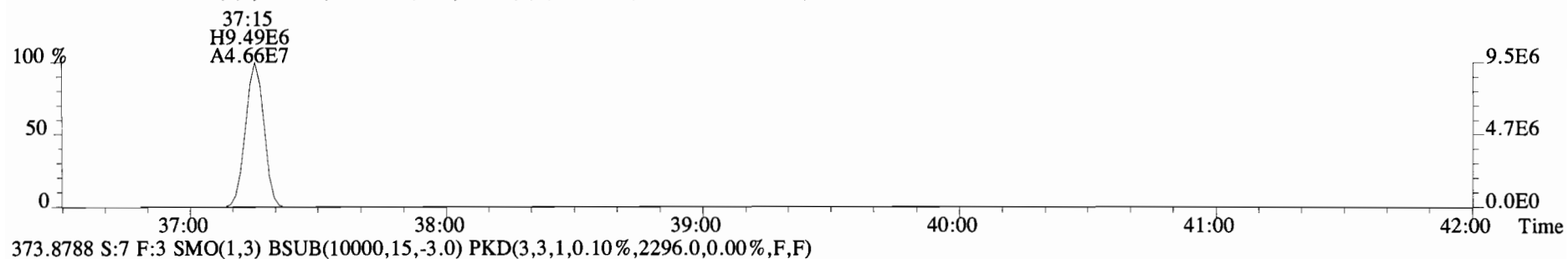
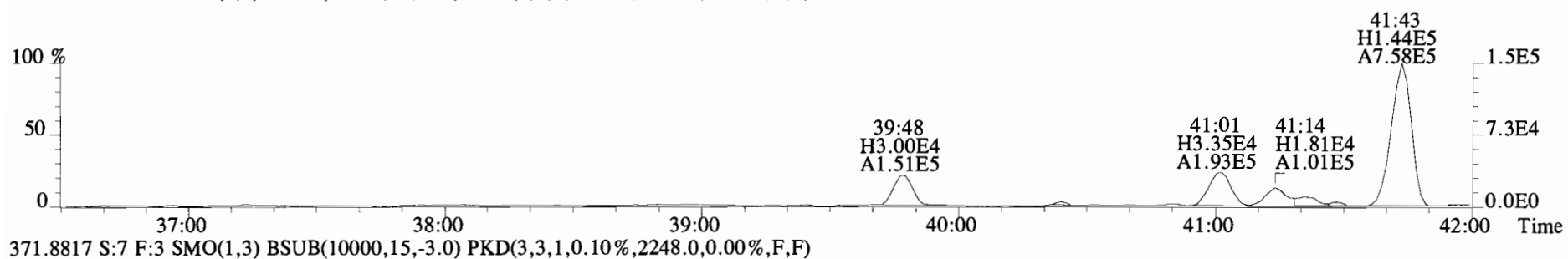
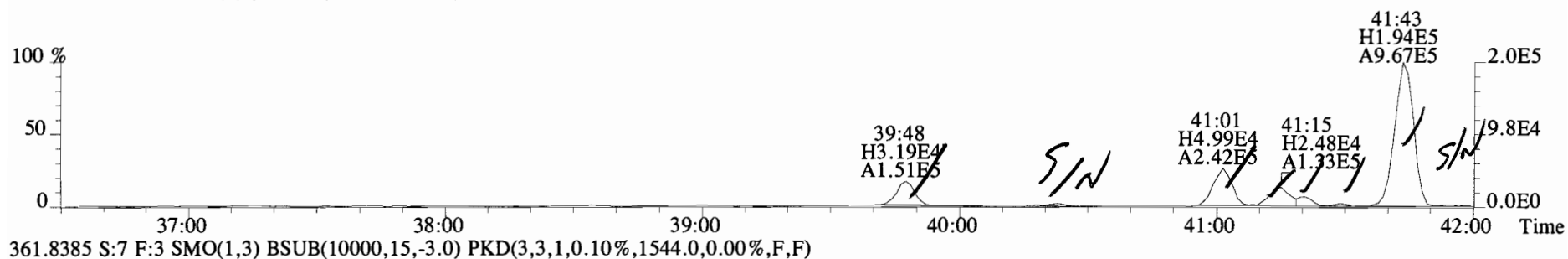
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
325.8804 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



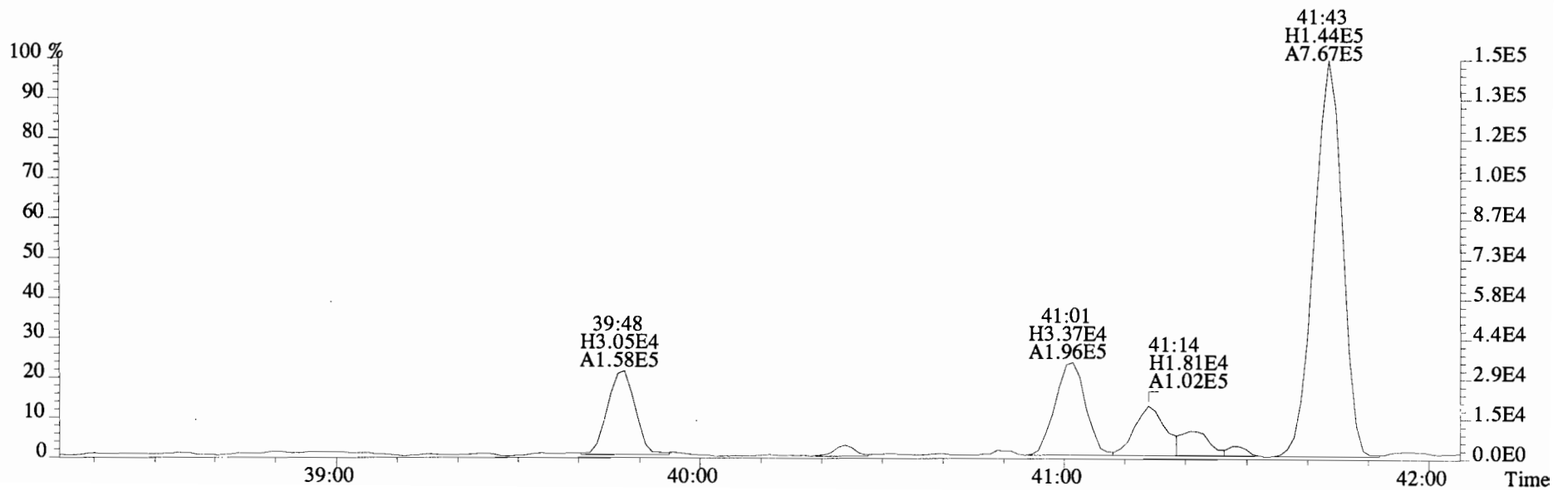
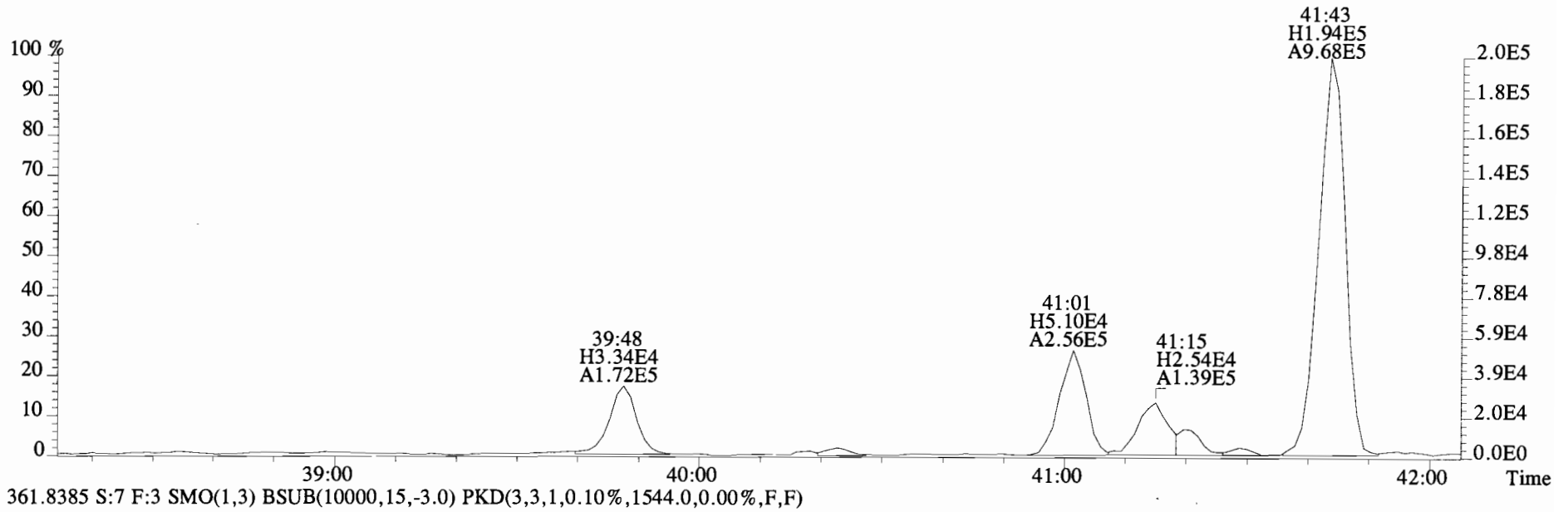
327.8775 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



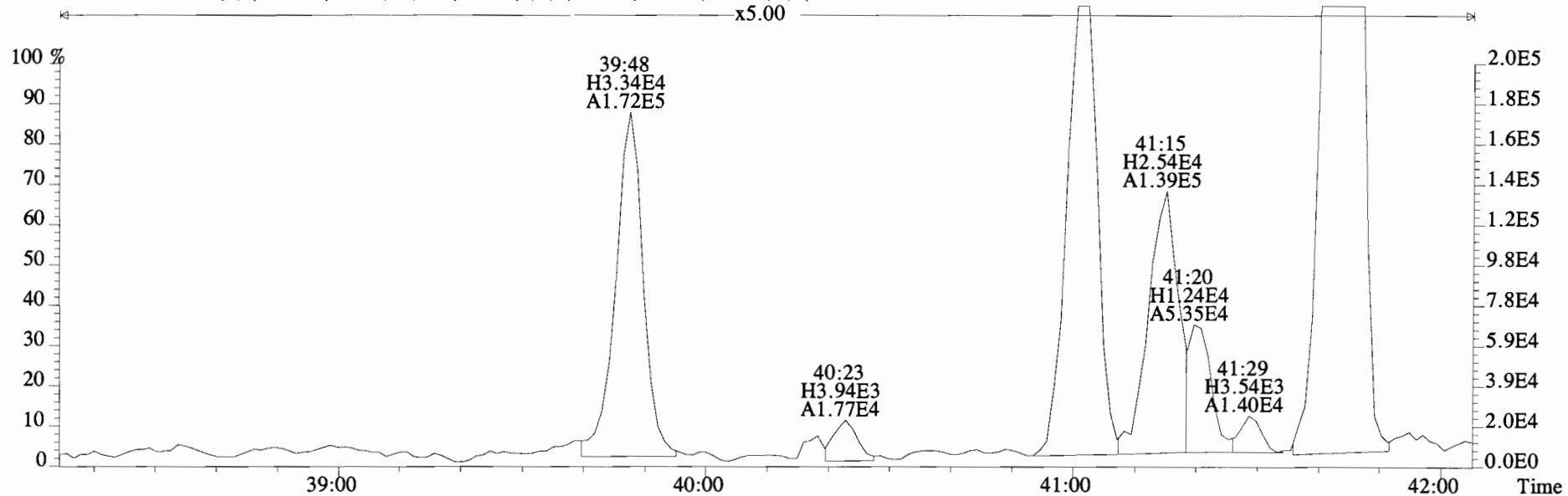
File:140919E1 #1-769 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1572.0,0.00%,F,F)



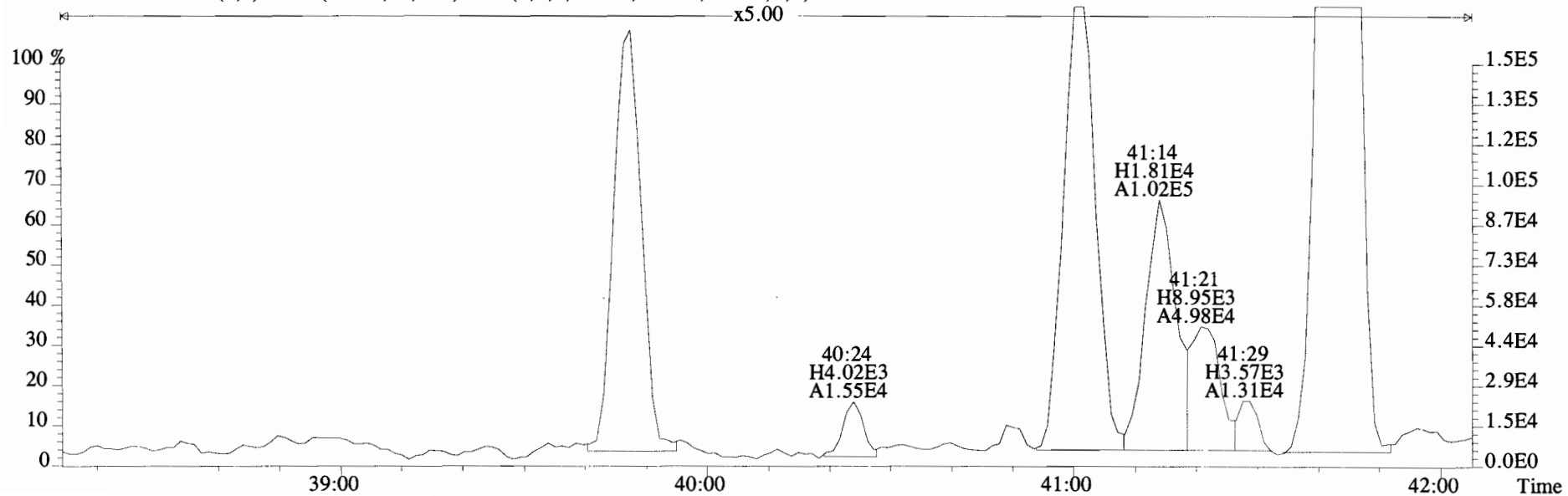
File:140919E1 #1-769 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1572.0,0.00%,F,F)



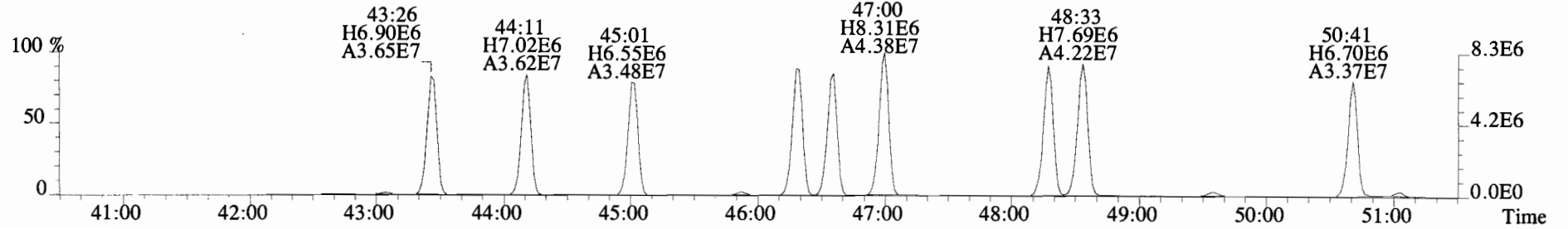
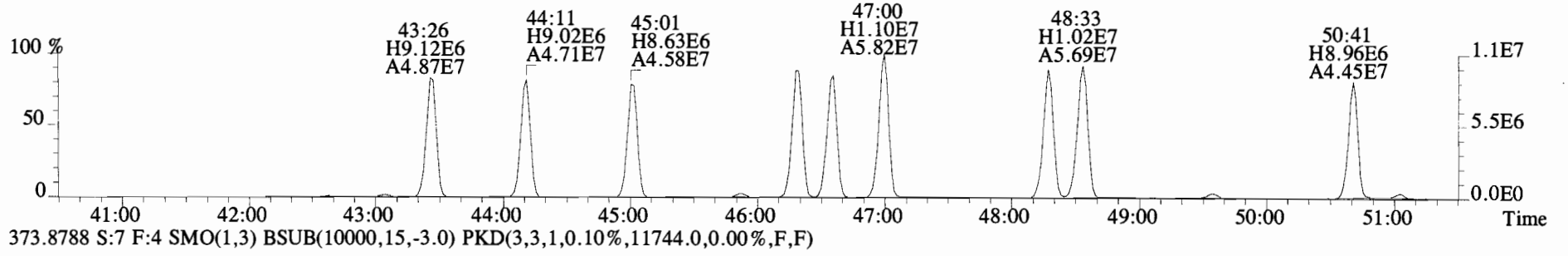
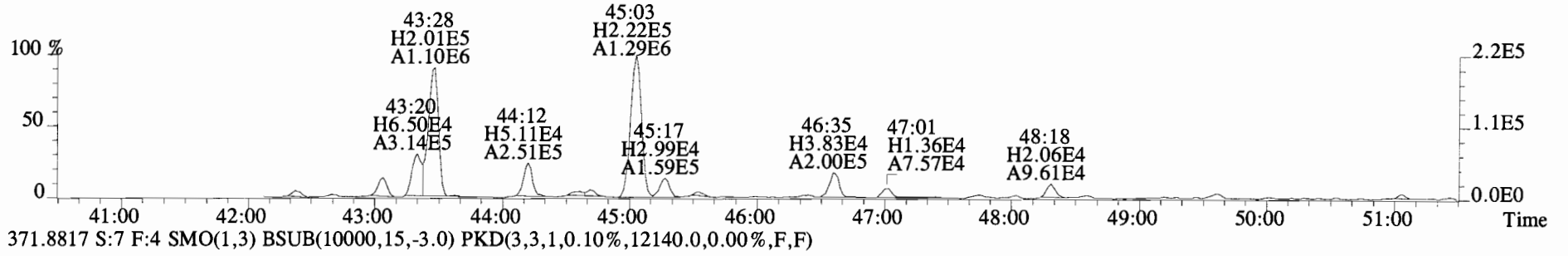
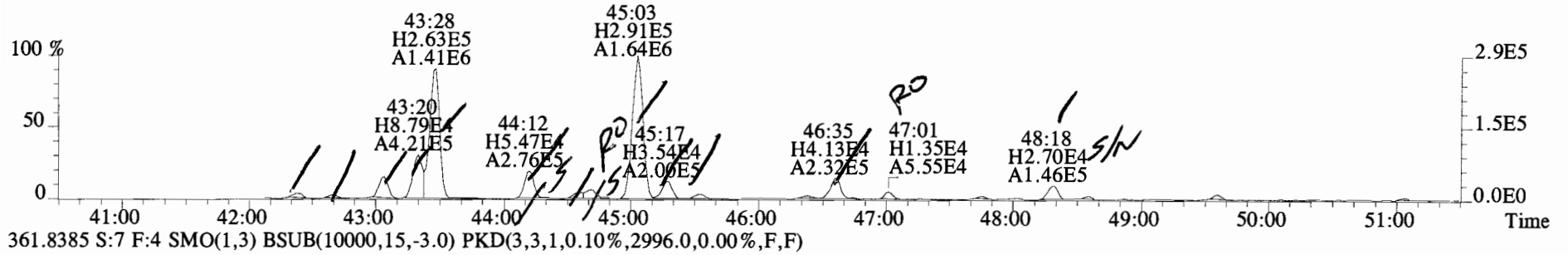
File:140919E1 #1-769 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1572.0,0.00%,F,F)



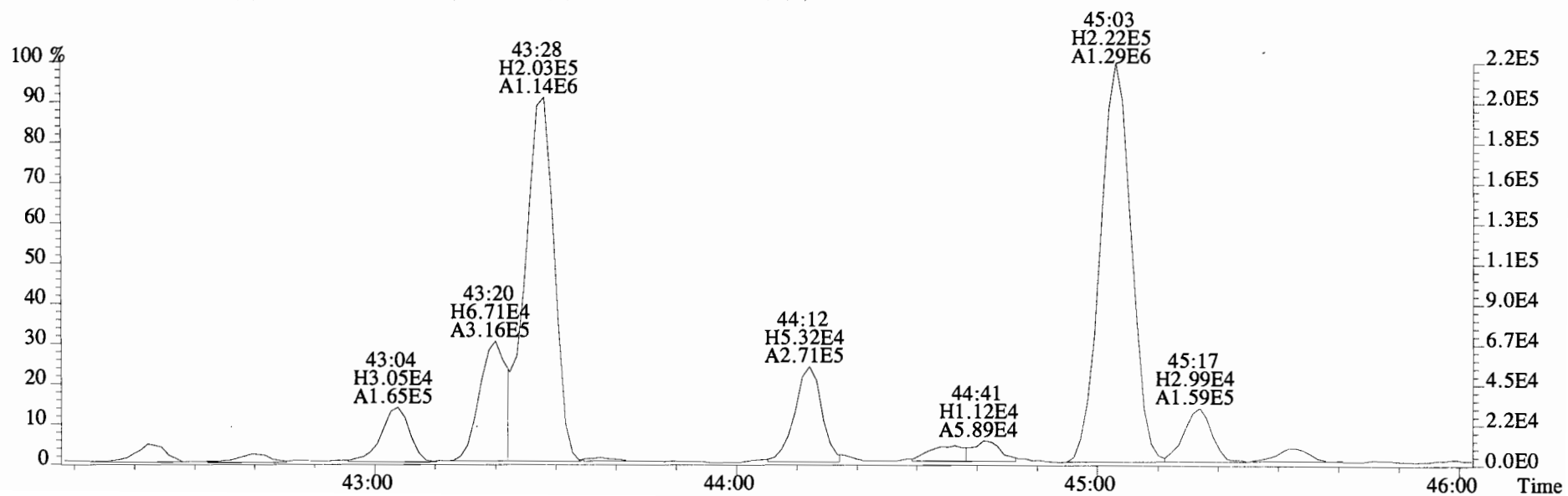
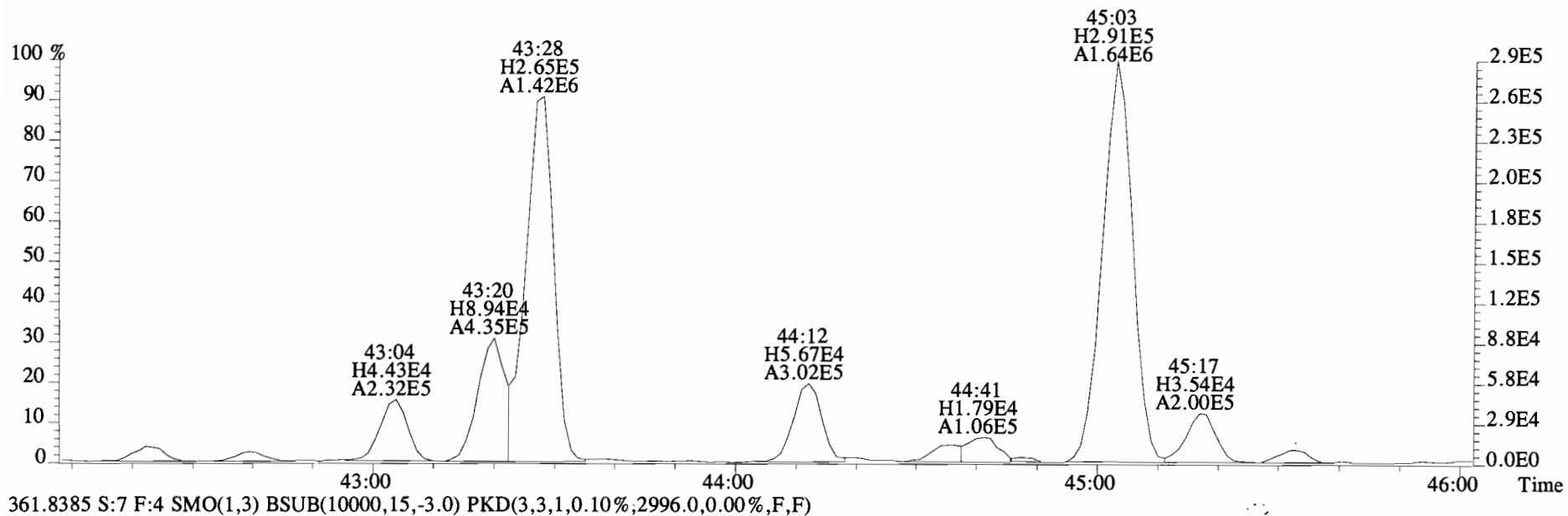
361.8385 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1544.0,0.00%,F,F)



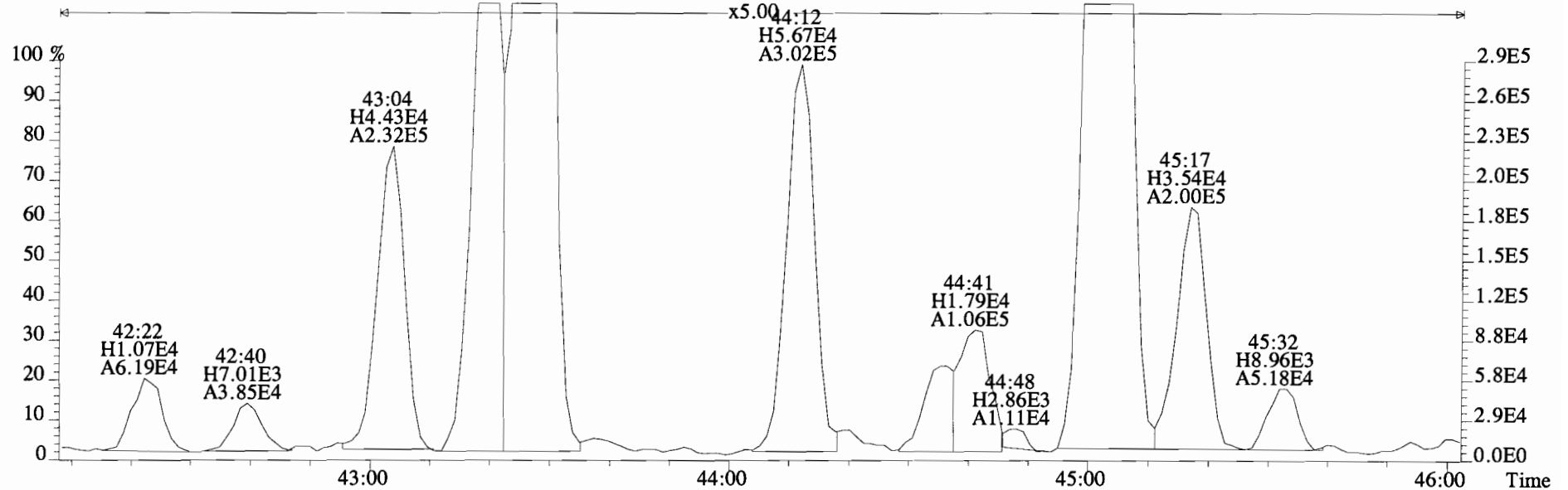
File:140919E1 #1-544 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
 359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2396.0,0.00%,F,F)



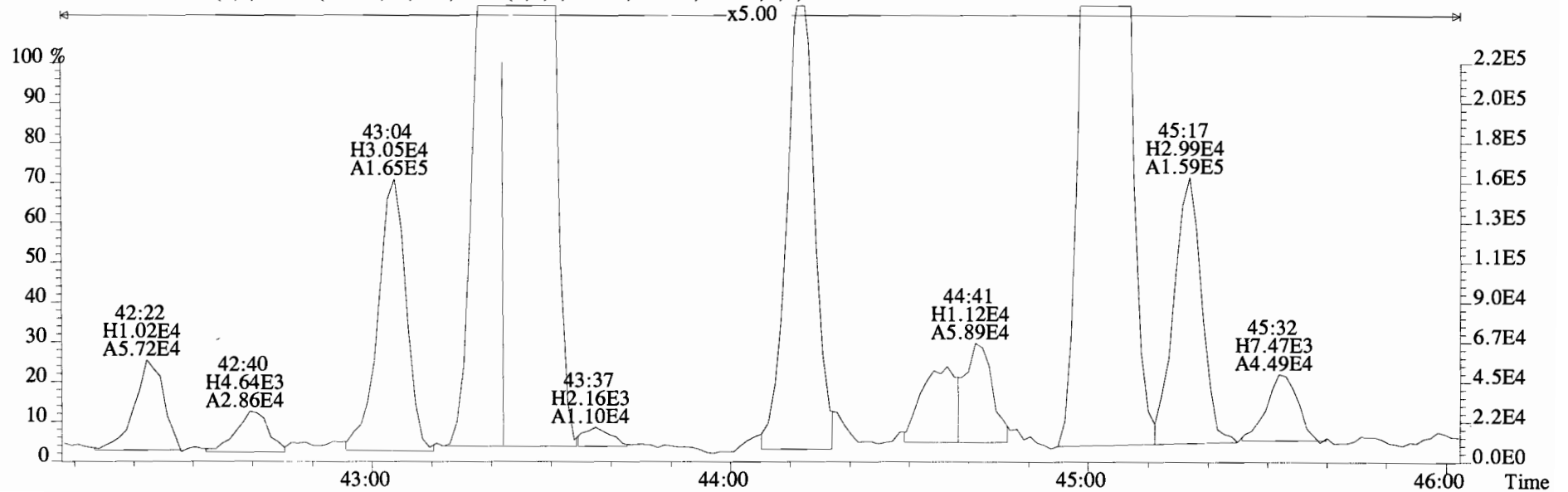
File:140919E1 #1-544 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
 359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2396.0,0.00%,F,F)



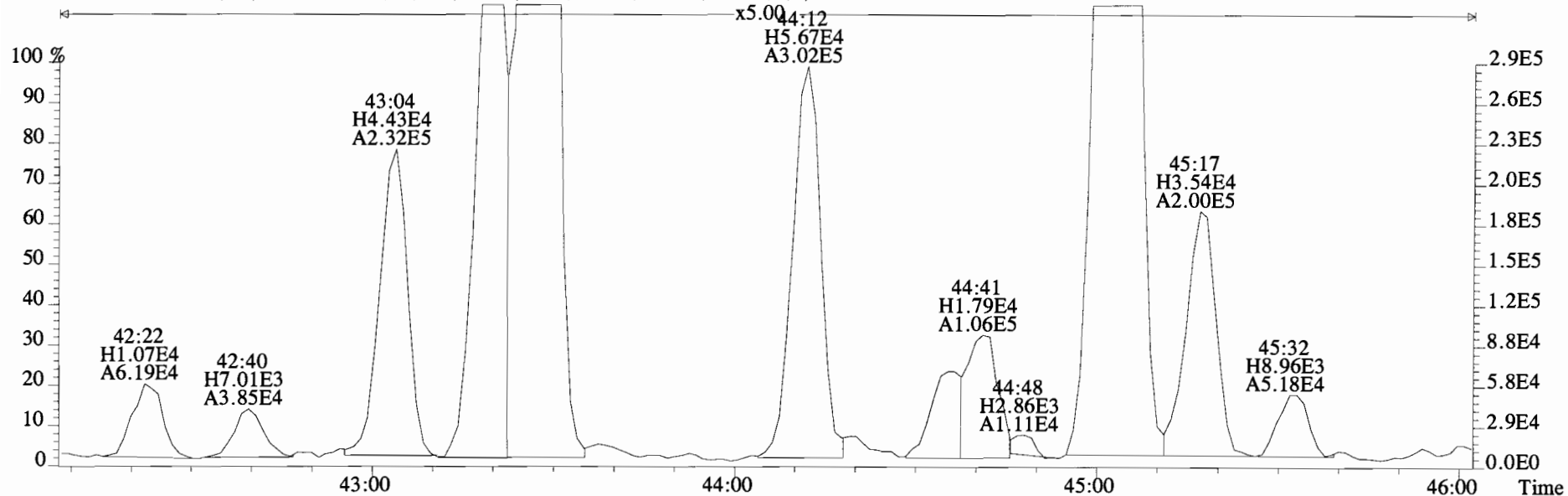
File:140919E1 #1-544 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
 359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2396.0,0.00%,F,F)



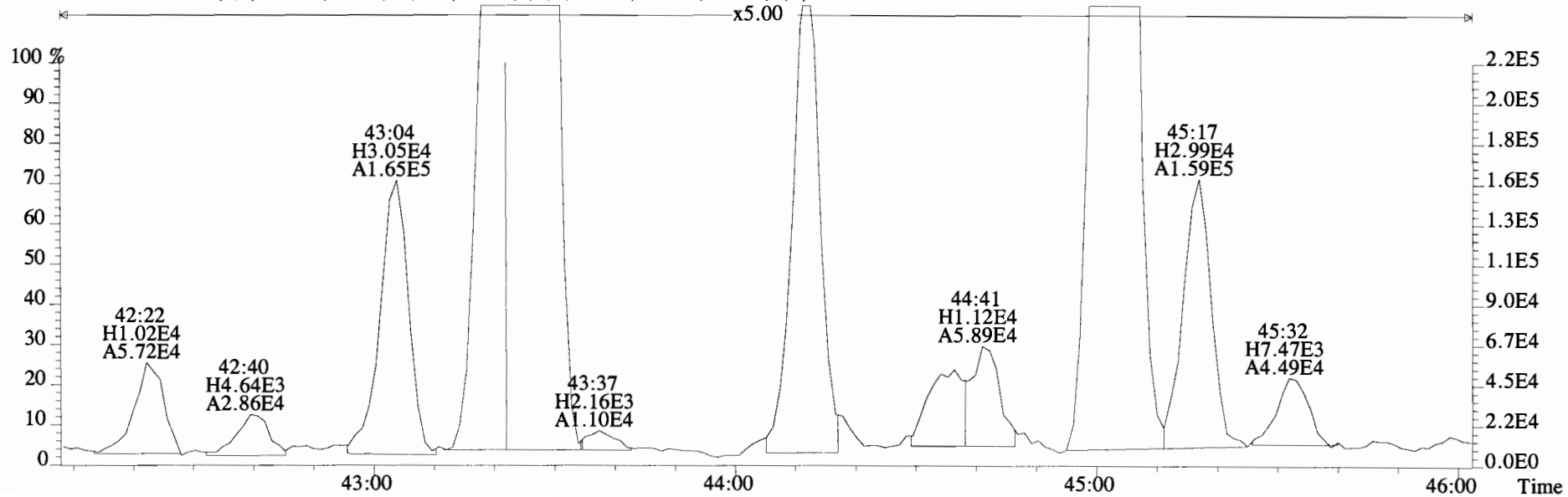
361.8385 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2996.0,0.00%,F,F)



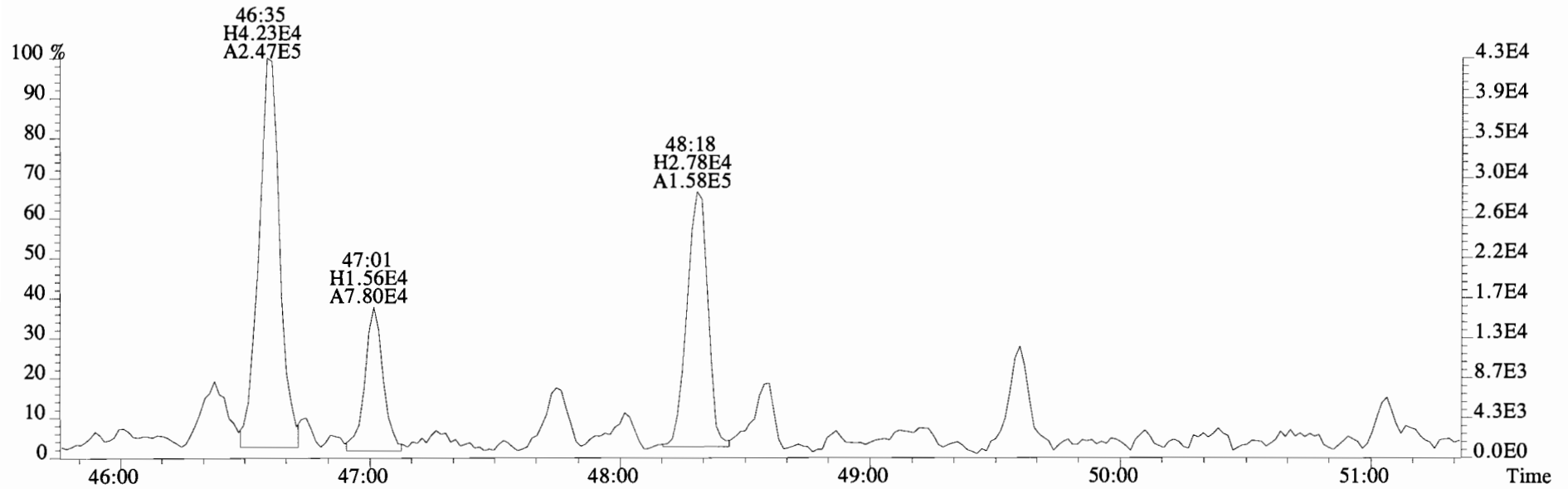
File:140919E1 #1-544 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
 359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2396.0,0.00%,F,F)



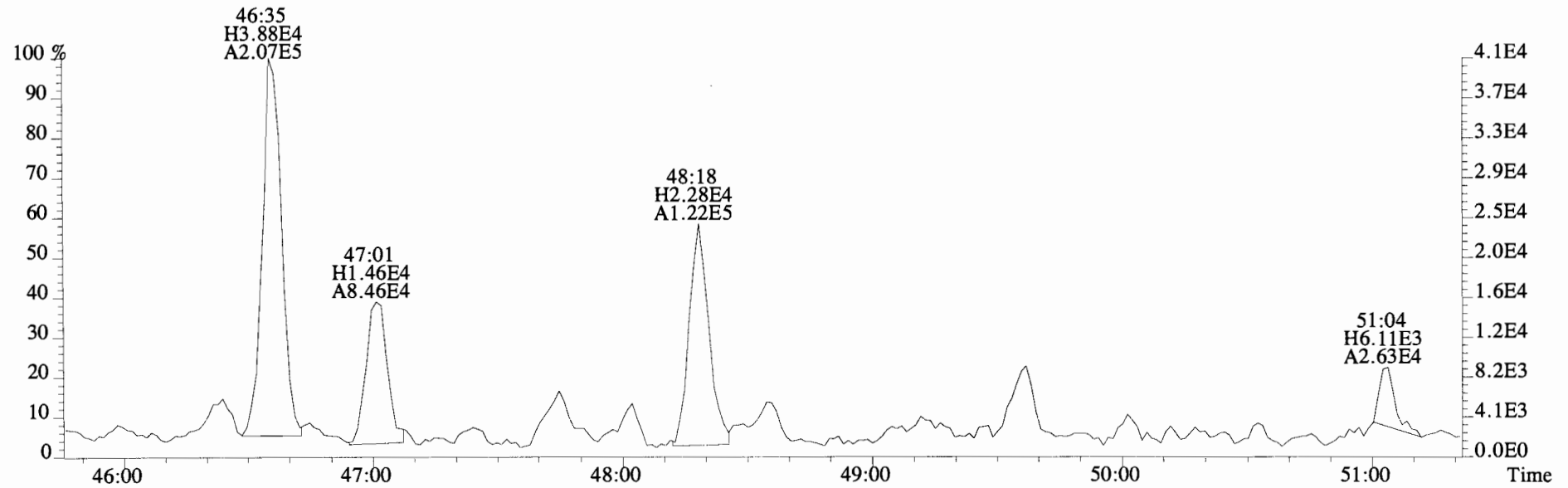
361.8385 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2996.0,0.00%,F,F)



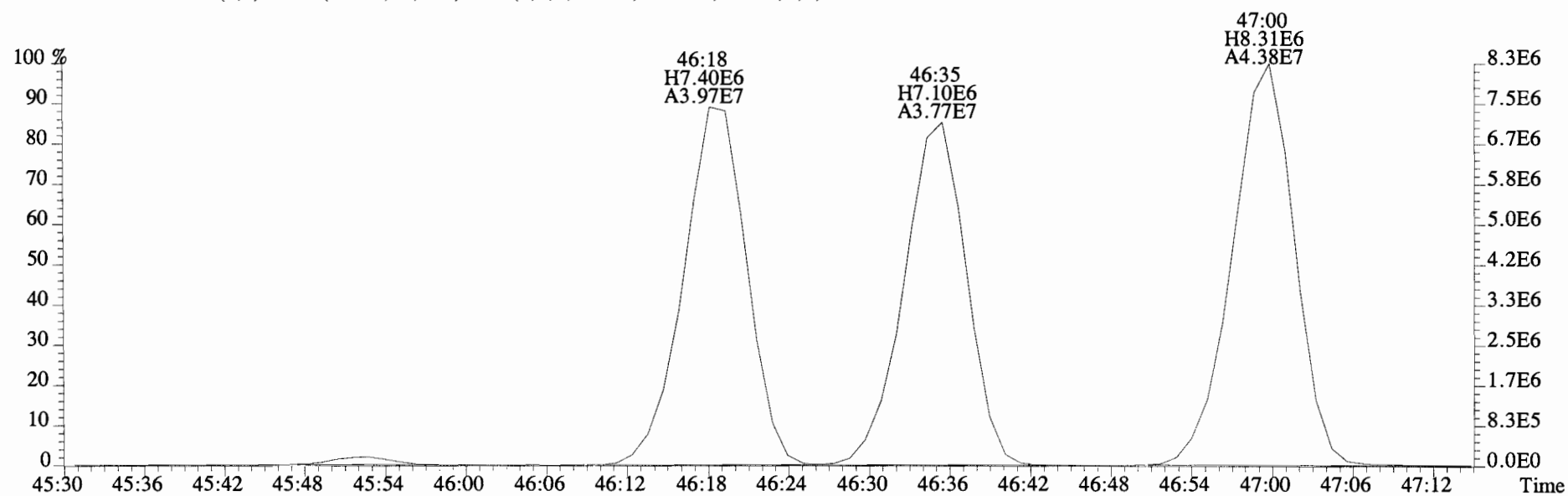
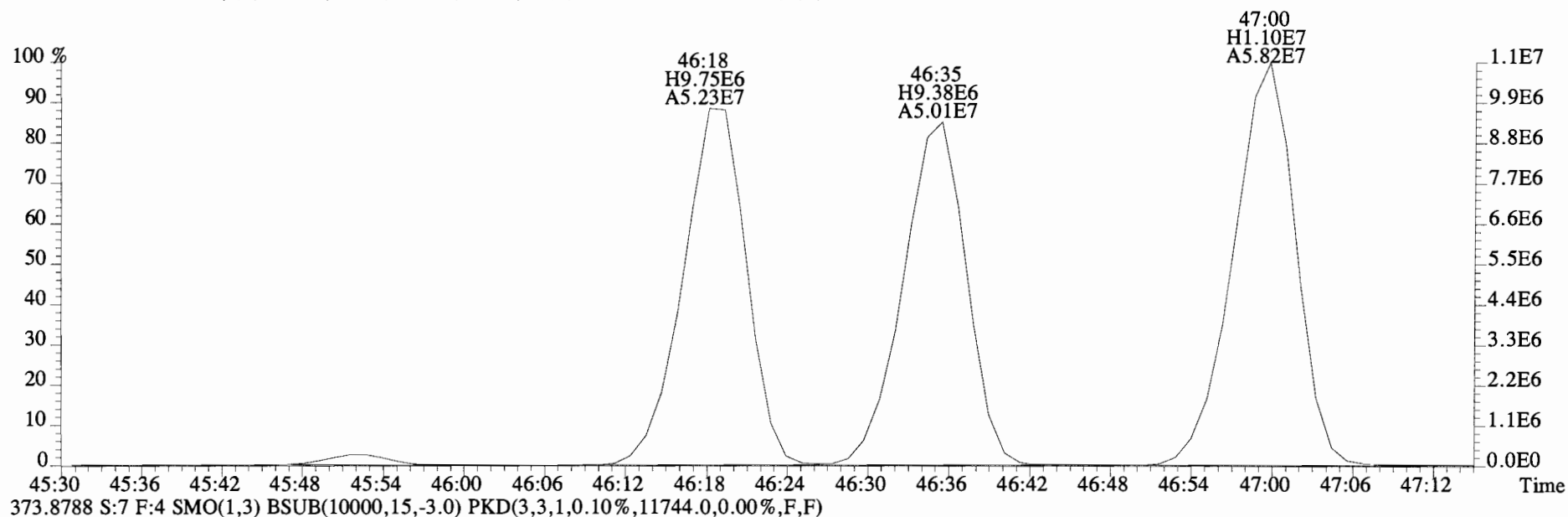
File:140919E1 #1-544 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
 359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2396.0,0.00%,F,F)



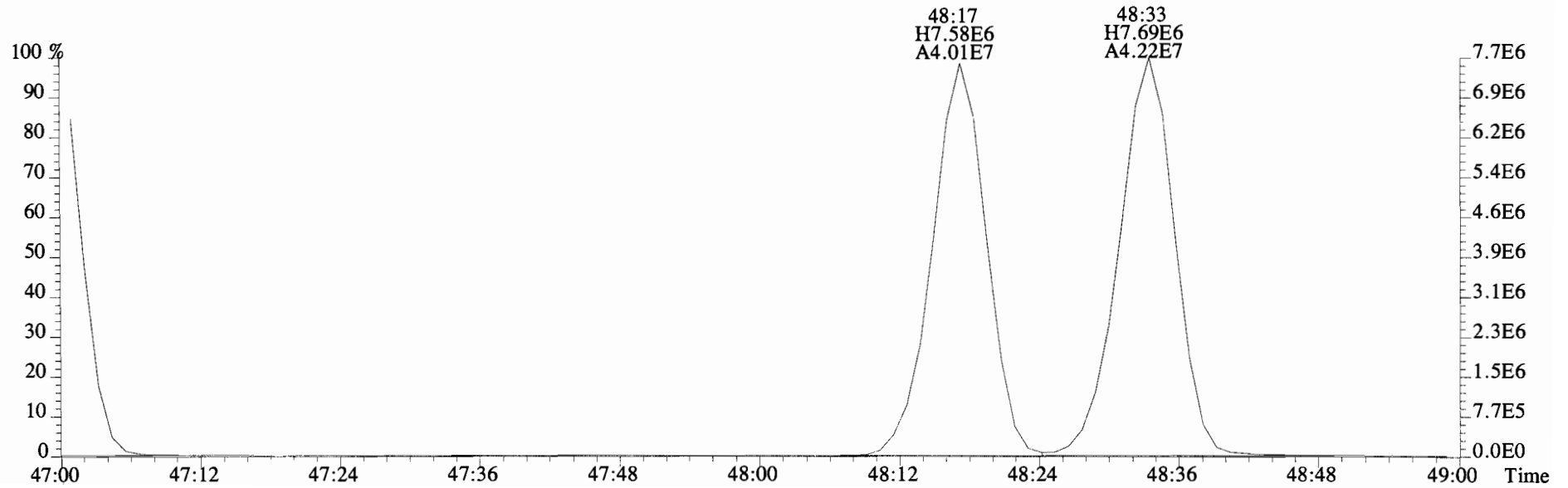
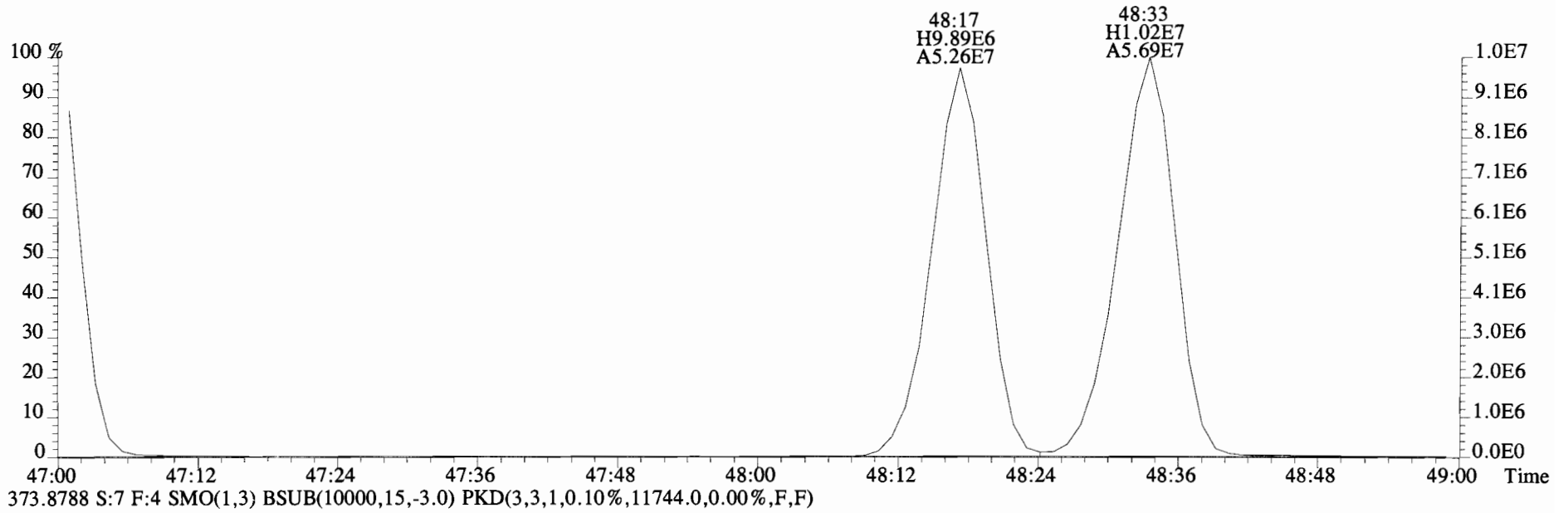
361.8385 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2996.0,0.00%,F,F)



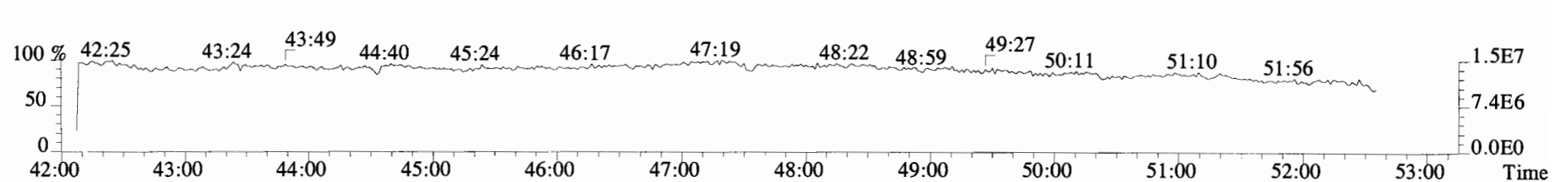
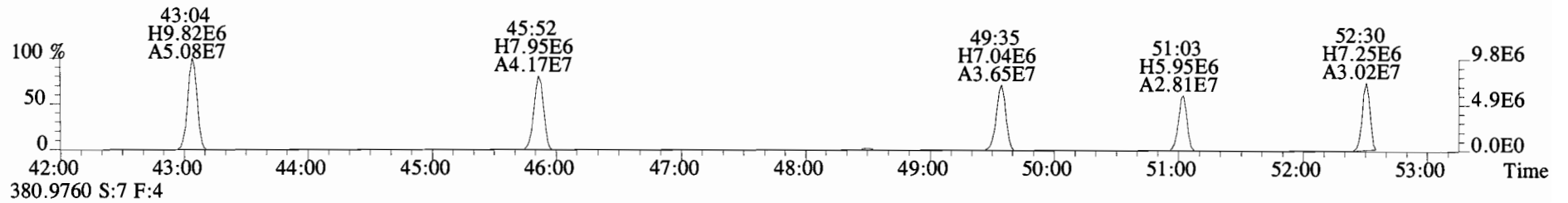
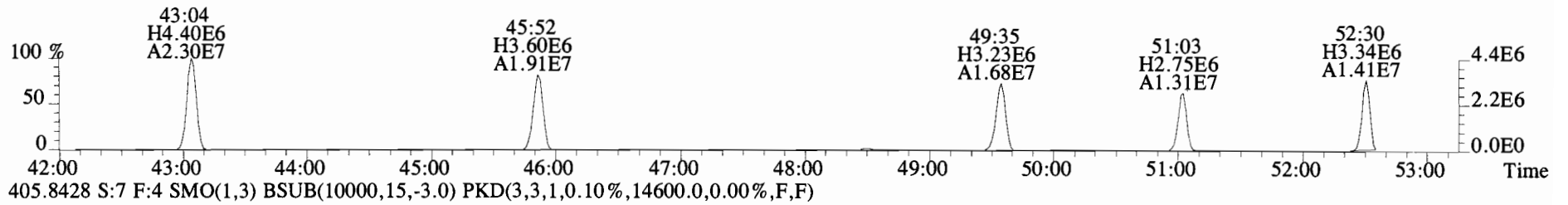
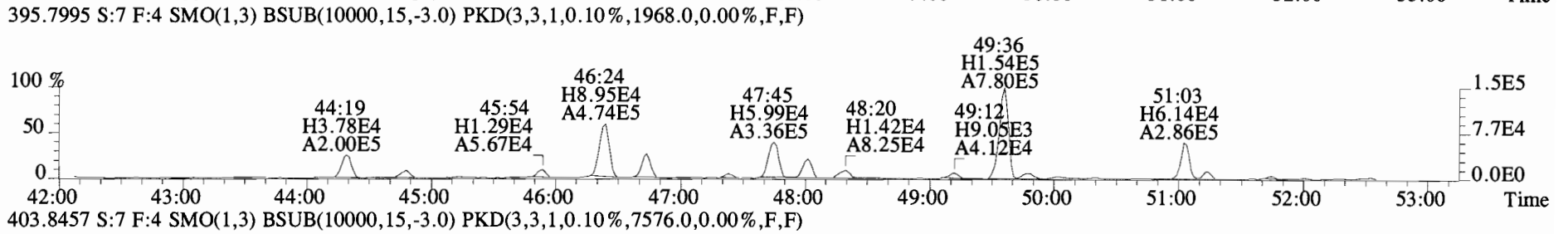
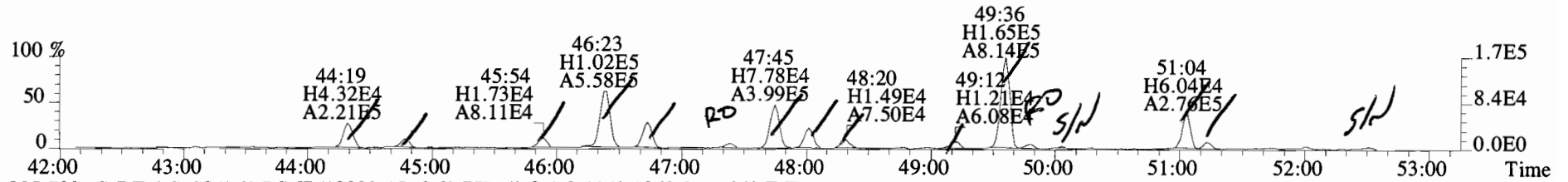
File:140919E1 #1-544 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
371.8817 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12140.0,0.00%,F,F)



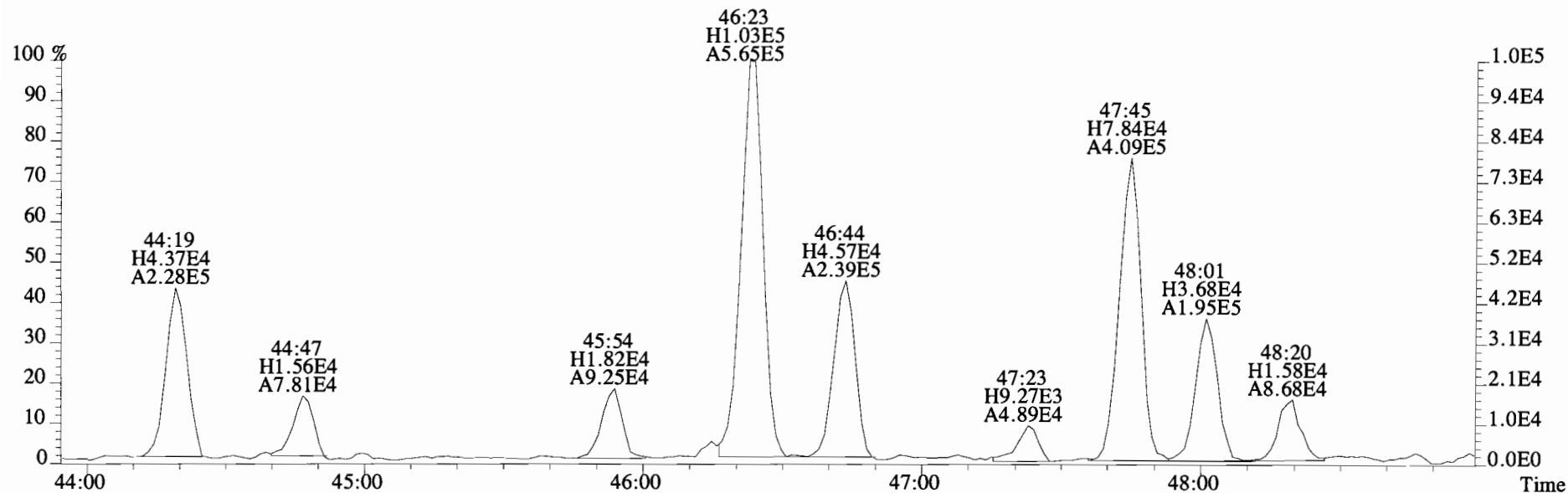
File:140919E1 #1-544 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
371.8817 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12140.0,0.00%,F,F)



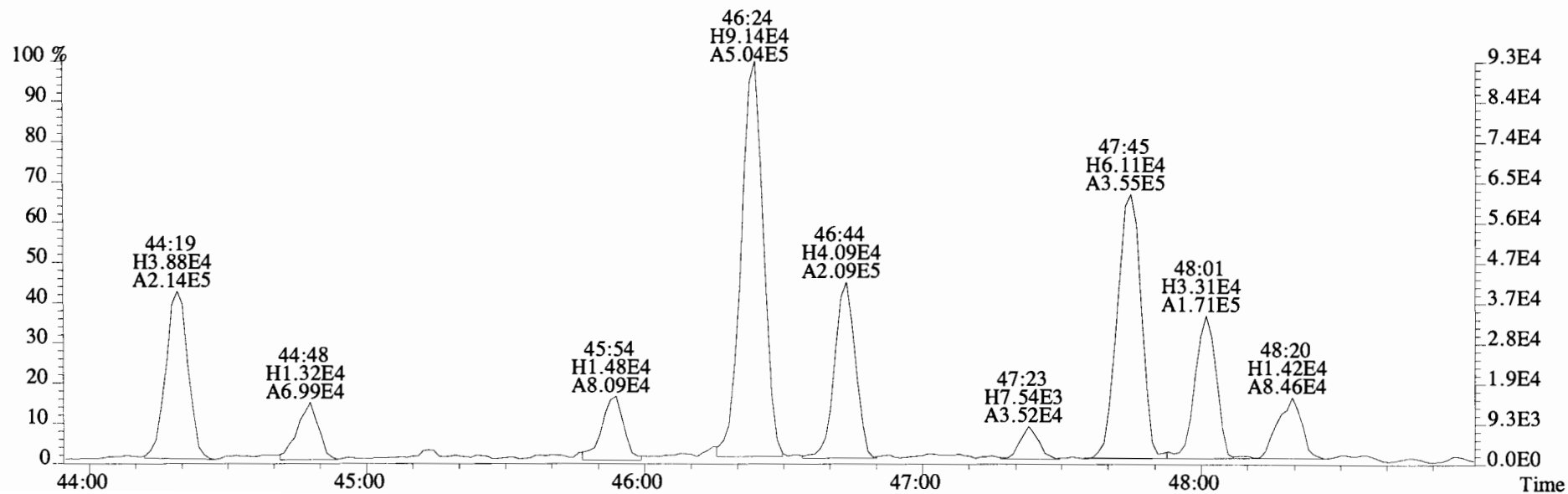
File:140919E1 #1-544 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2104.0,0.00%,F,F)



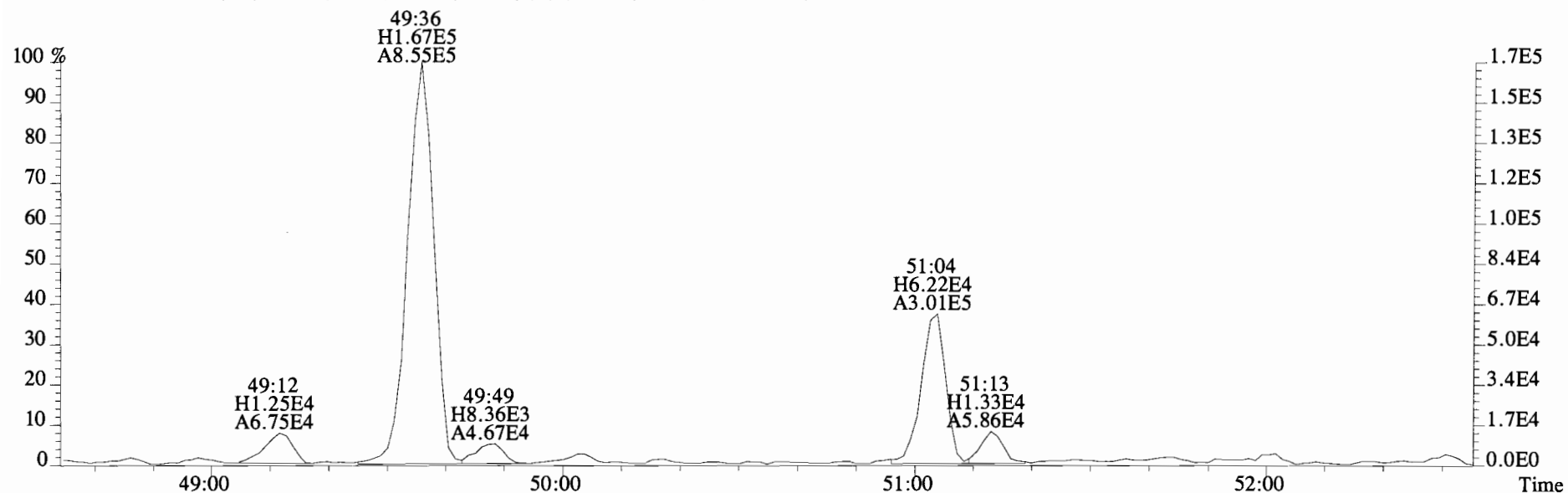
File:140919E1 #1-544 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
 393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2104.0,0.00%,F,F)



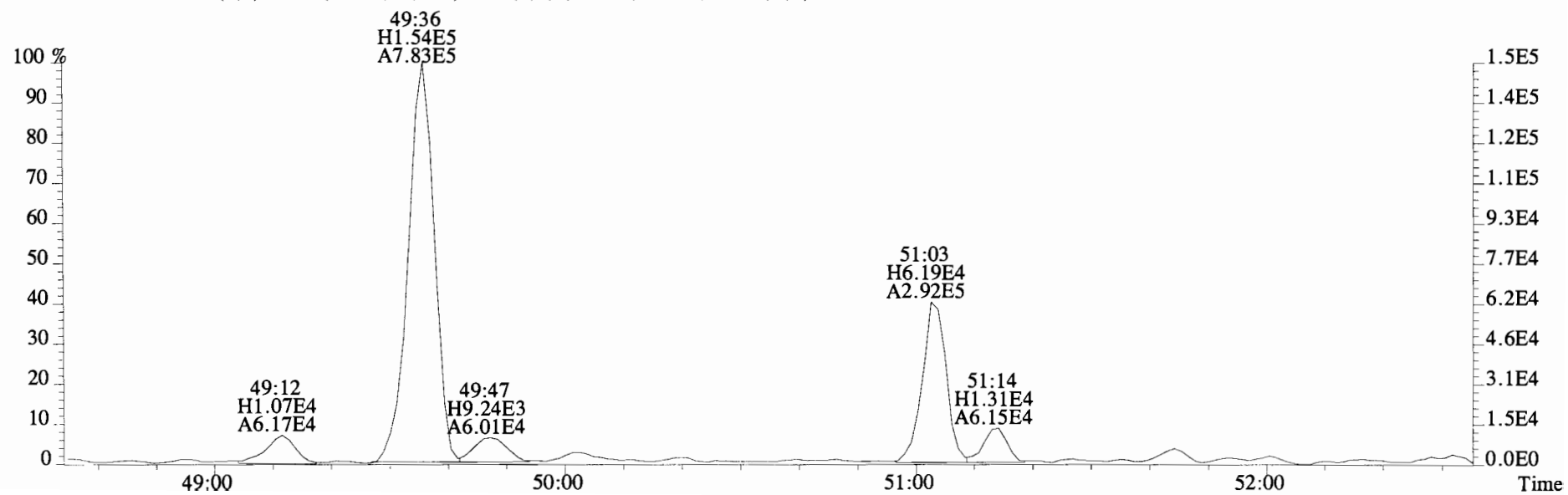
395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1968.0,0.00%,F,F)



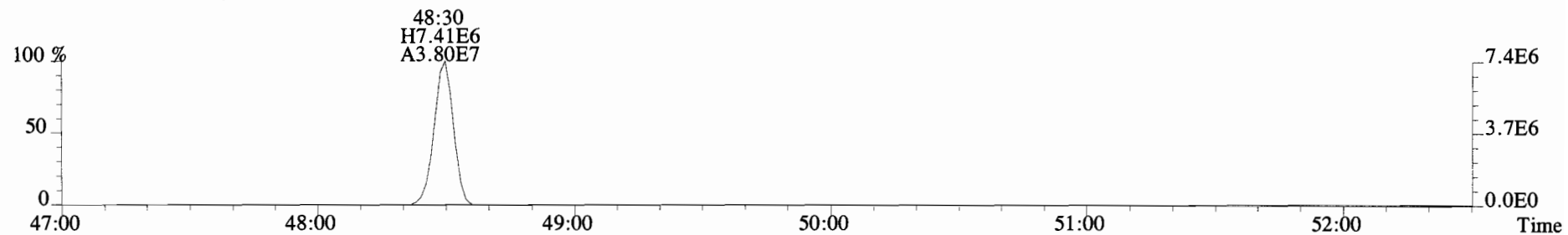
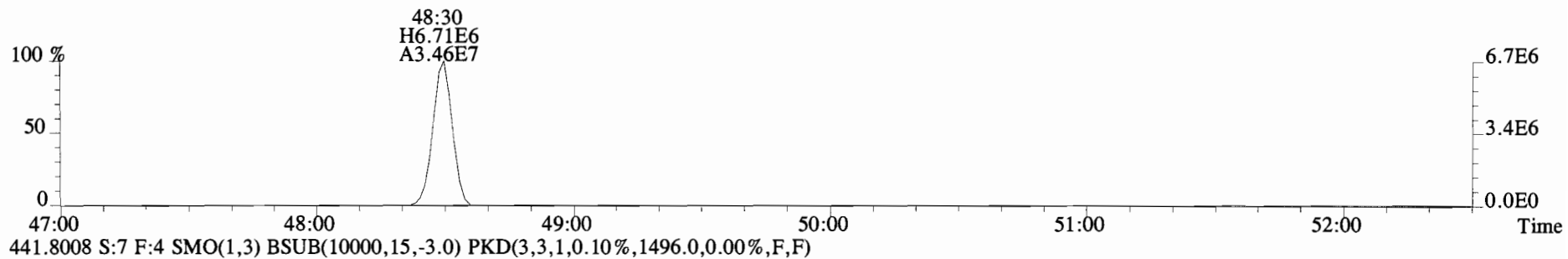
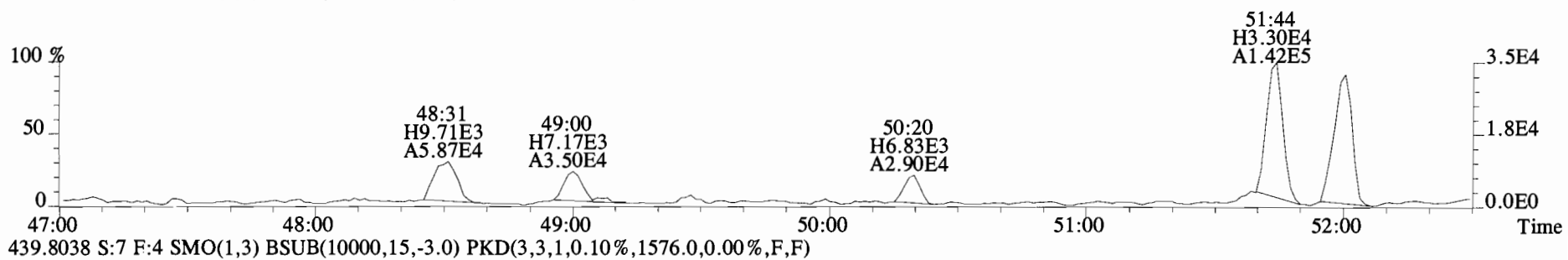
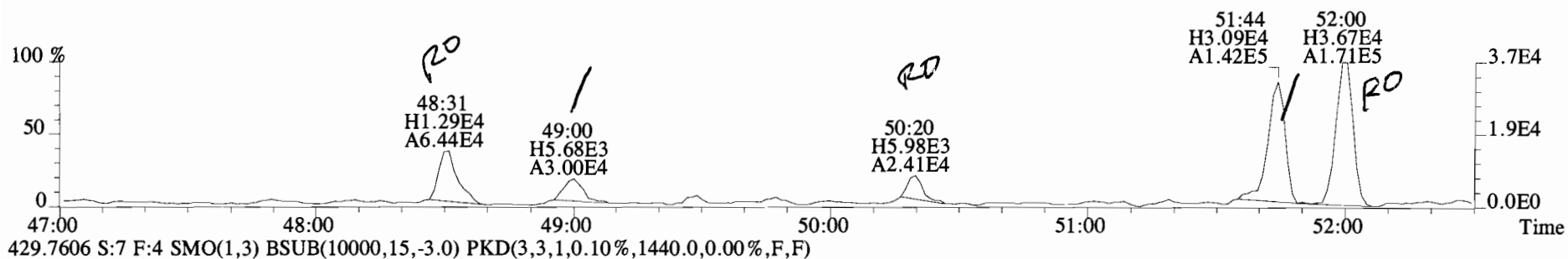
File:140919E1 #1-544 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2104.0,0.00%,F,F)



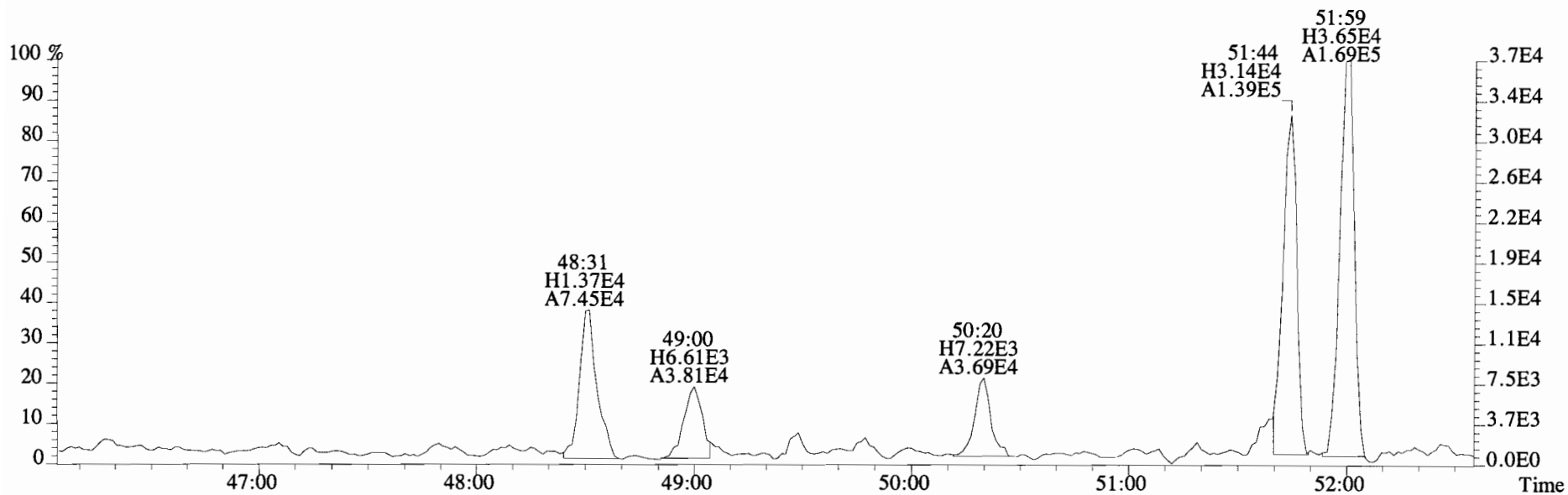
395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1968.0,0.00%,F,F)



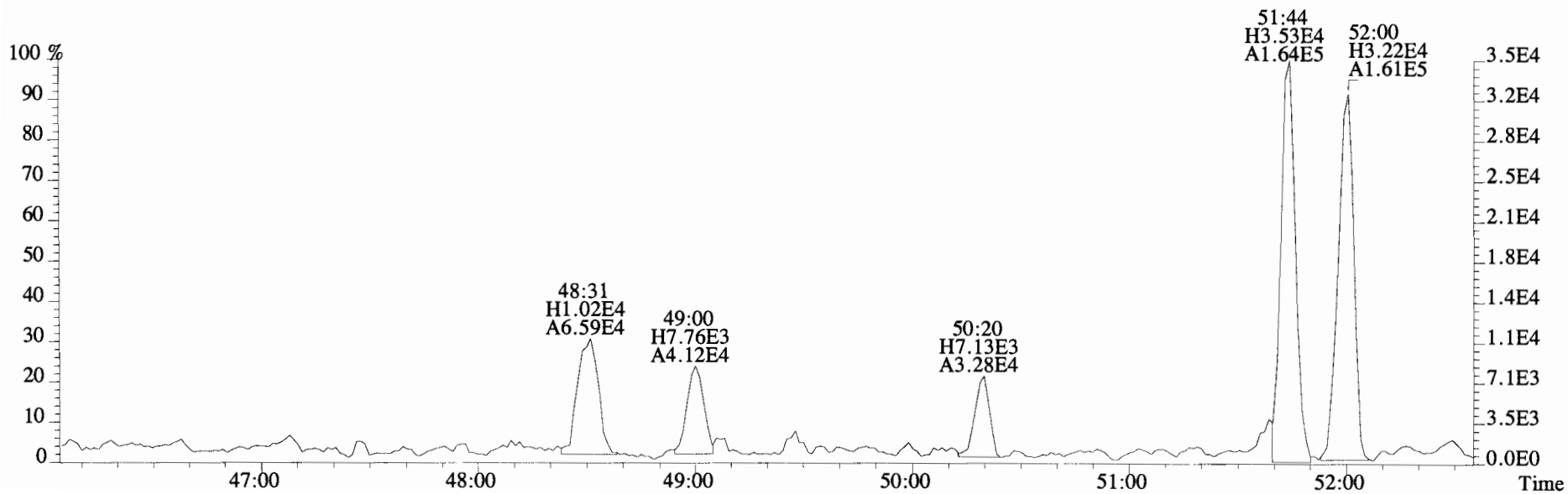
File:140919E1 #1-544 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
427.7635 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1520.0,0.00%,F,F)



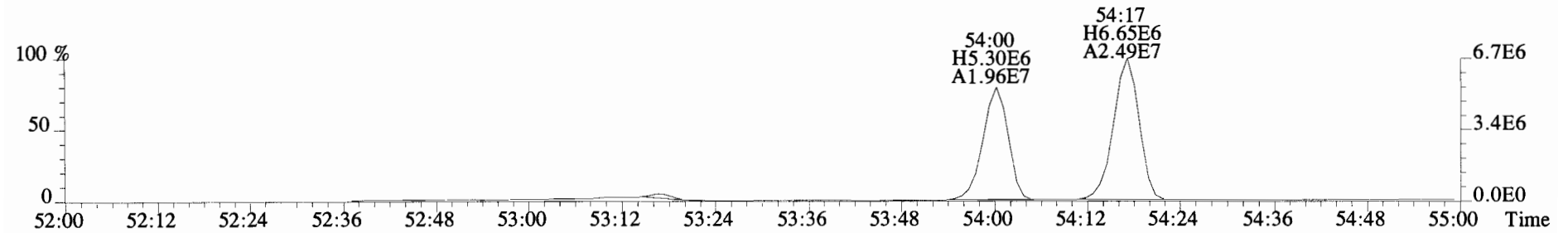
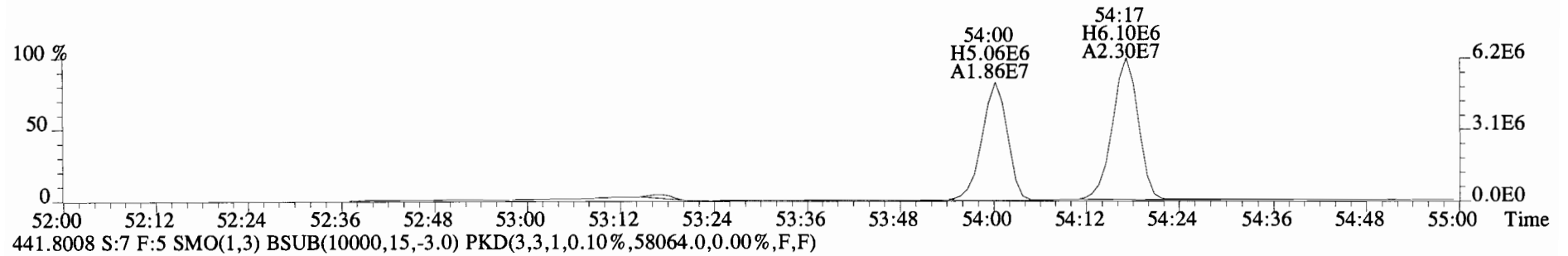
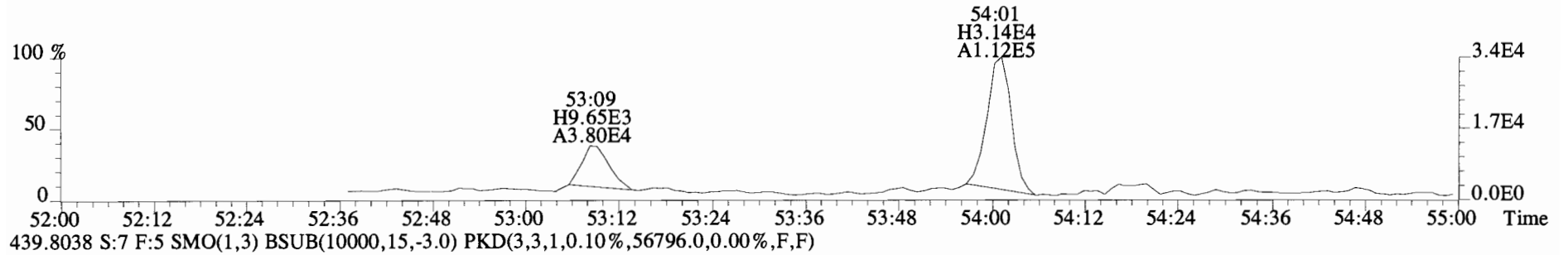
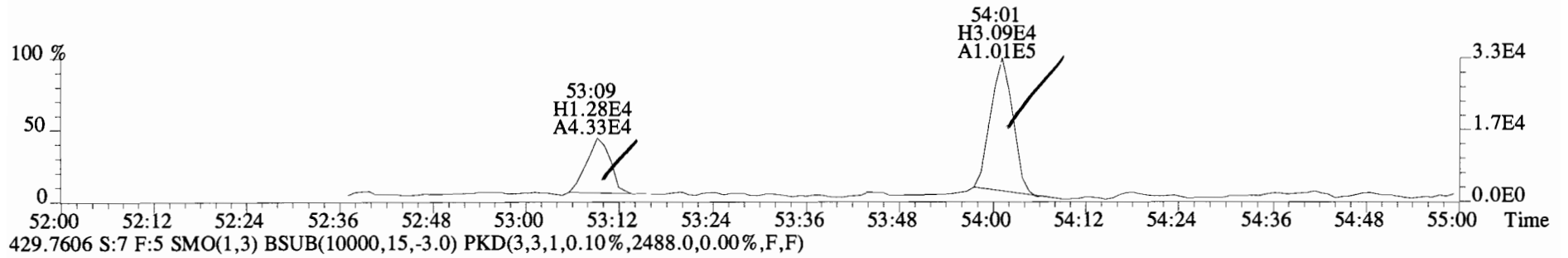
File:140919E1 #1-544 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
427.7635 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1520.0,0.00%,F,F)



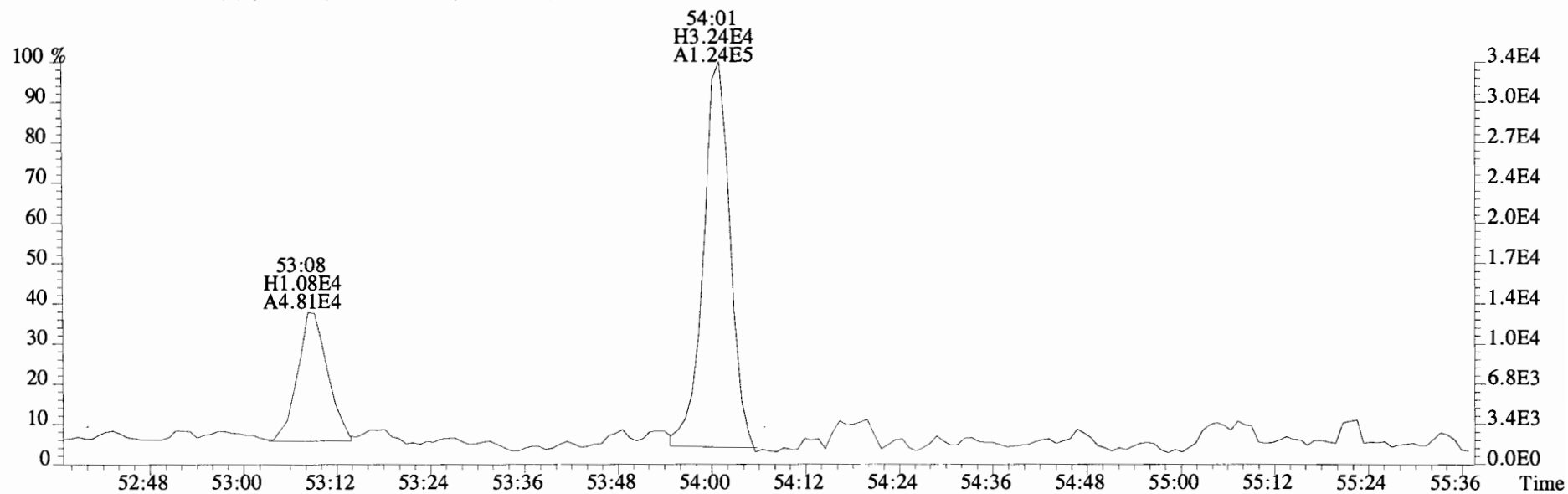
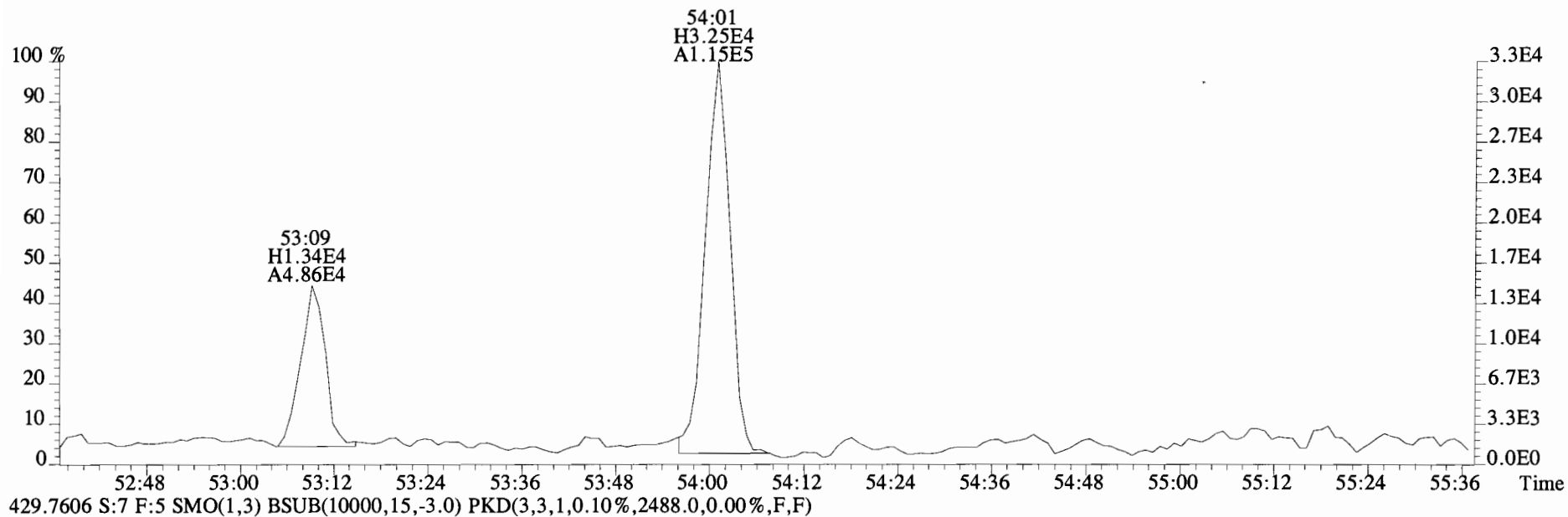
429.7606 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1440.0,0.00%,F,F)



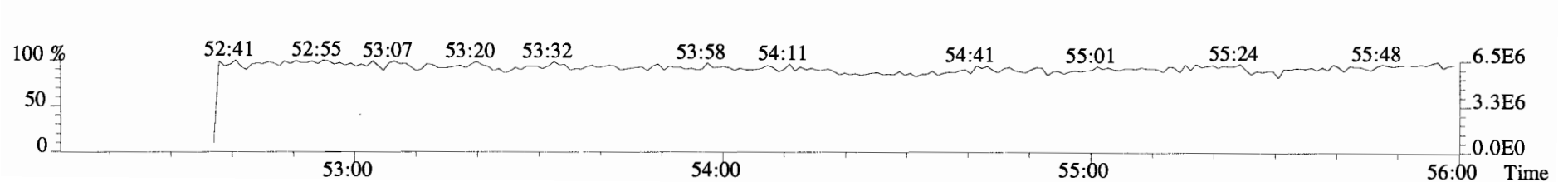
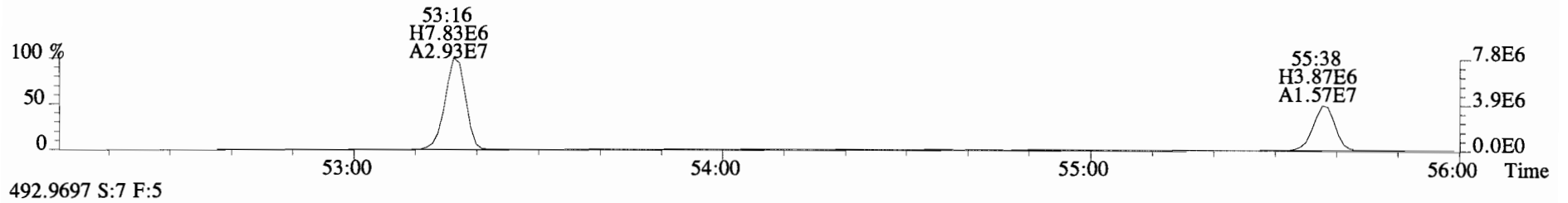
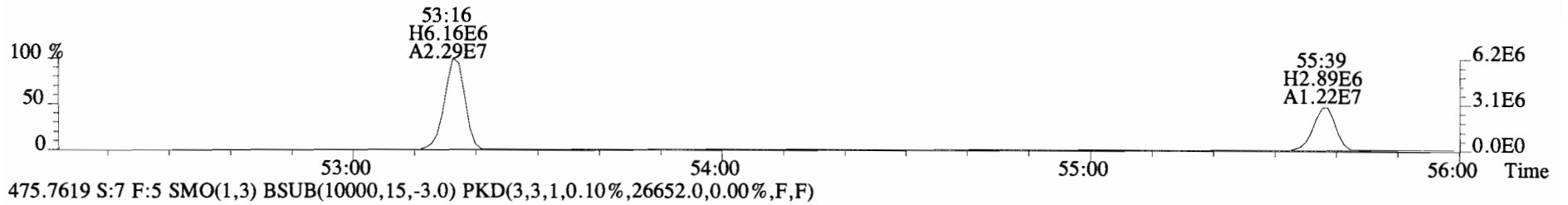
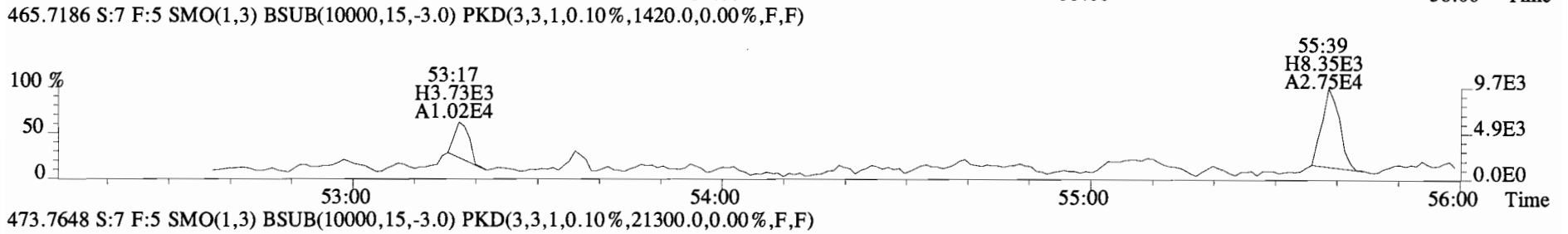
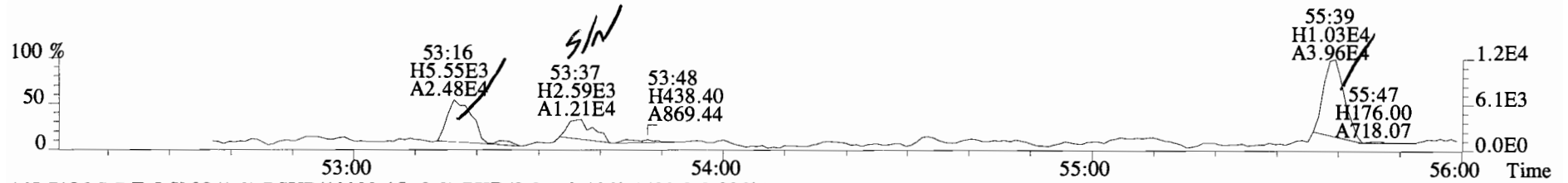
File:140919E1 #1-430 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
427.7635 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2144.0,0.00%,F,F)



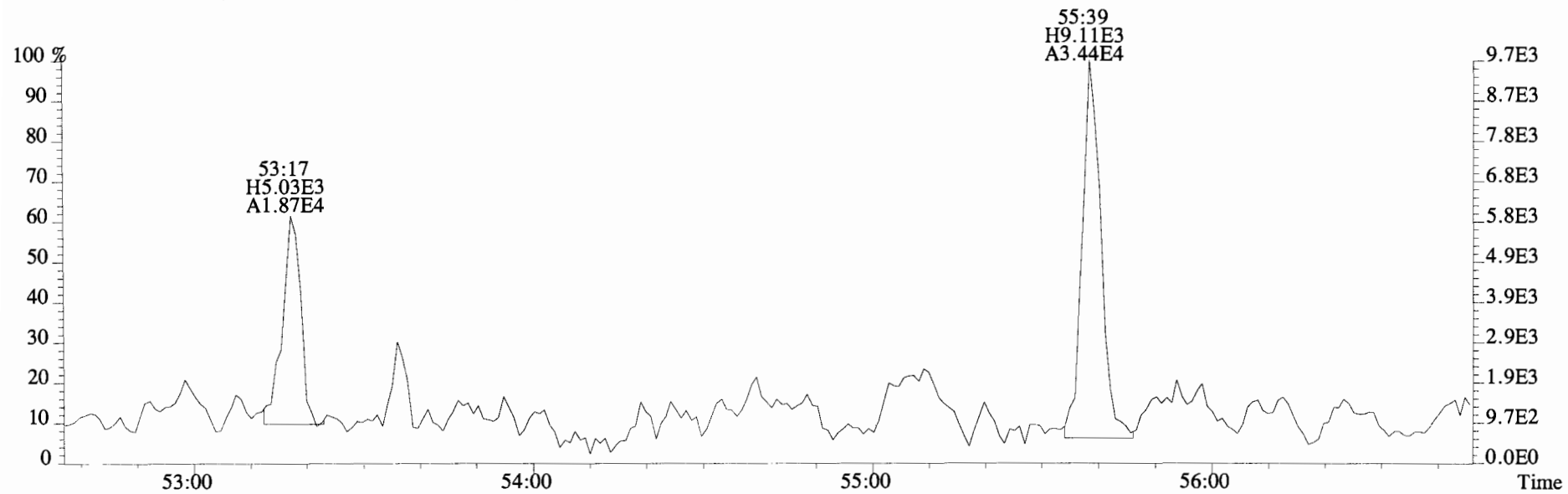
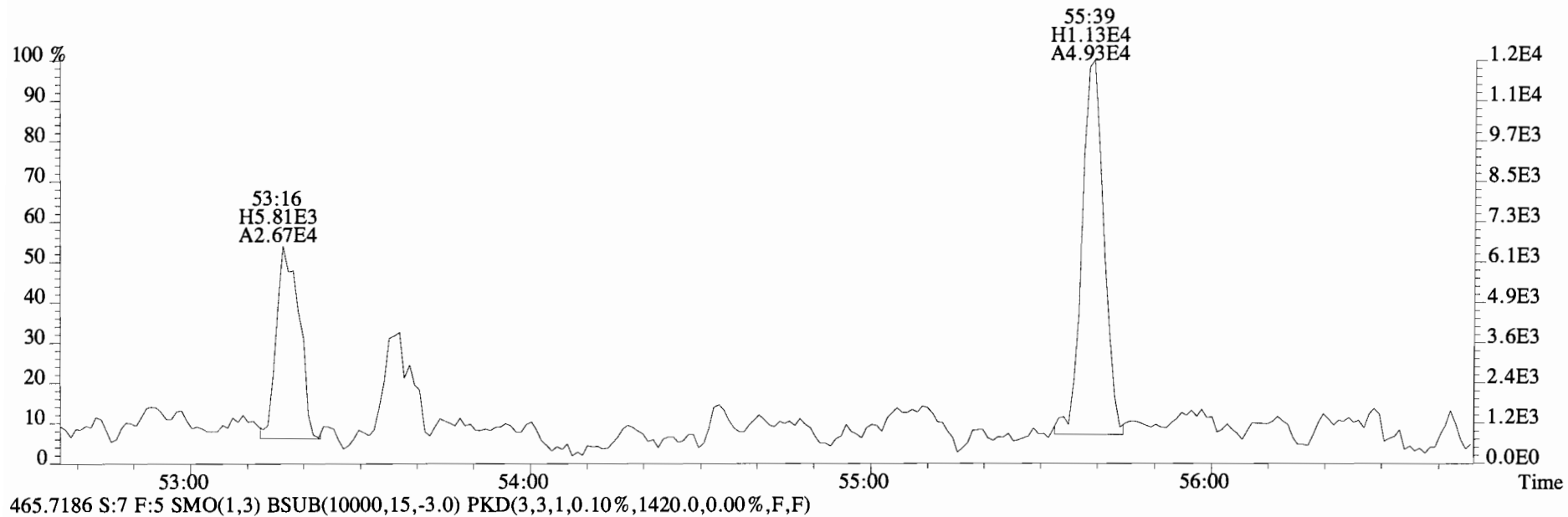
File:140919E1 #1-430 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
427.7635 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2144.0,0.00%,F,F)



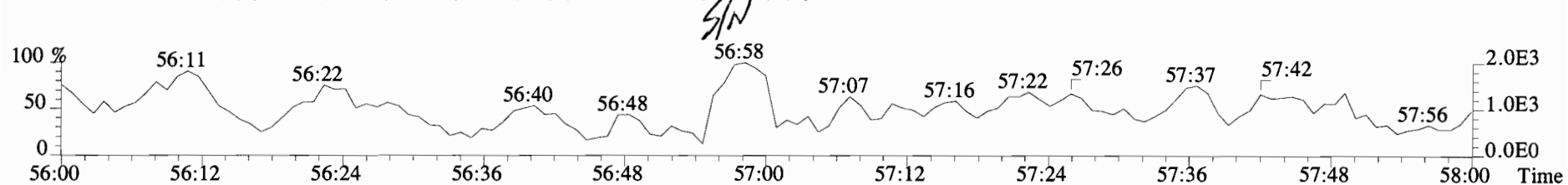
File:140919E1 #1-430 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
463.7216 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1372.0,0.00%,F,F)



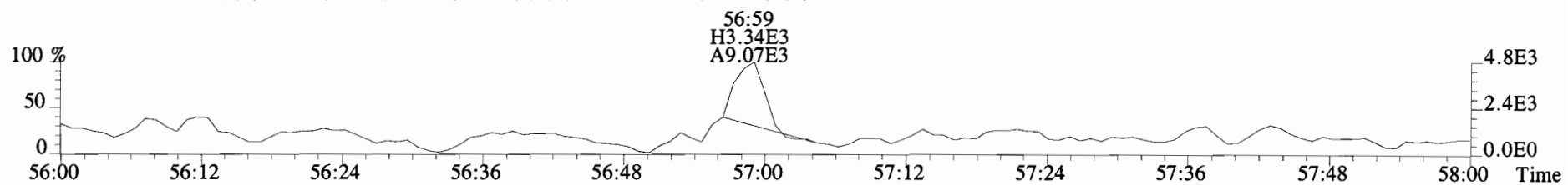
File:140919E1 #1-430 Acq:19-SEP-2014 15:59:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
463.7216 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1372.0,0.00%,F,F)



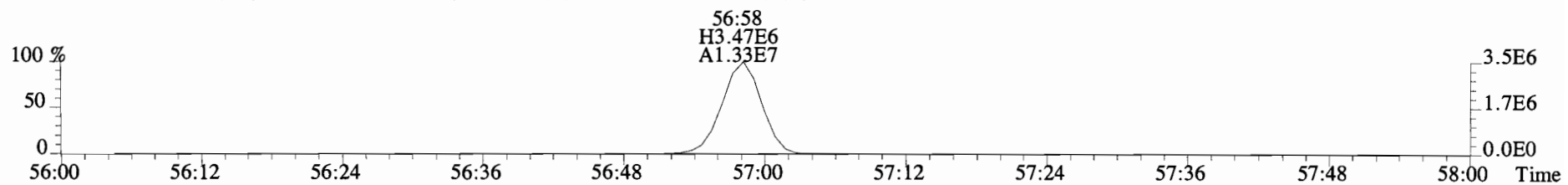
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-01 PS-TS-01-20140909-W 1 Exp:PCB_ZB1
497.6826 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1460.0,0.00%,F,F)



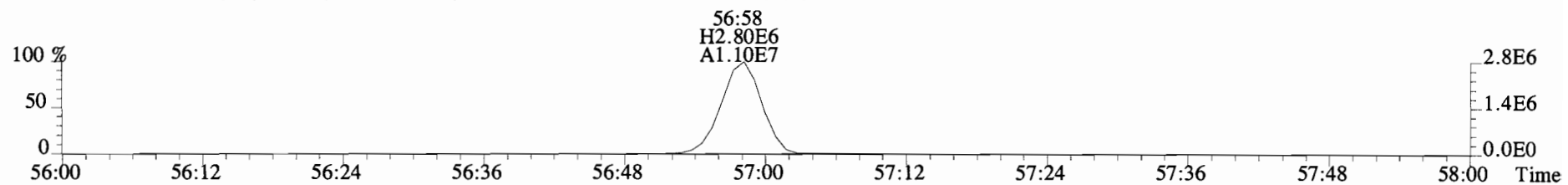
499.6797 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1376.0,0.00%,F,F)



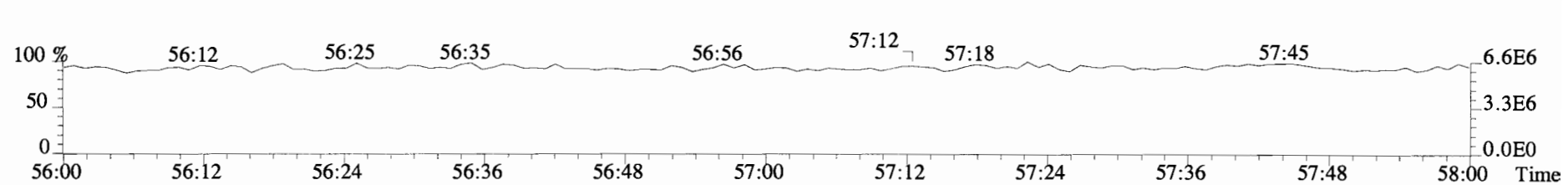
509.7229 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1648.0,0.00%,F,F)



511.7199 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1568.0,0.00%,F,F)



492.9697 S:7 F:5



| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|--------------|----------|------|---------|------|------|------|-------|-----|-------|-------|-------------|-----|
| Mono | PCB-1 | 2.42e+05 | 2.70 | y 16:22 | 1.25 | 3.56 | | * | 2.5 | * | 1.002 | 0.996-1.006 | |
| Mono | PCB-2 | 1.21e+05 | 2.48 | n 18:44 | 1.18 | 1.97 | R | * | * | * | 0.989 | 0.983-0.993 | |
| Mono | PCB-3 | 1.90e+05 | 2.17 | n 18:58 | 1.22 | 2.99 | R | * | 2.5 | * | 1.001 | 0.996-1.006 | |
| Di | PCB-4/10 | * | * | n NotFη | 1.55 | * | | 42000 | 2.5 | 18.5 | * | 0.998-1.008 | |
| Di | PCB-7/9 | * | * | n NotFη | 1.27 | * | | 42000 | 2.5 | 15.2 | * | 0.865-0.873 | |
| Di | PCB-6 | * | * | n NotFη | 1.26 | * | | 42000 | 2.5 | 15.3 | * | 0.890-0.899 | |
| Di | PCB-5/8 | 1.28e+06 | 1.69 | y 23:10 | 1.23 | 19.5 | | * | 2.5 | * | 0.909 | 0.906-0.916 | |
| Di | PCB-14 | * | * | n NotFη | 1.23 | * | | 42000 | 2.5 | 12.9 | * | 0.949-0.959 | |
| Di | PCB-11 | 2.07e+07 | 1.63 | y 25:30 | 1.16 | 267 | | * | 2.5 | * | 1.001 | 0.996-1.006 | |
| Di | PCB-12/13 | * | * | n NotFη | 1.10 | * | | 42000 | 2.5 | 14.5 | * | 1.010-1.020 | |
| Di | PCB-15 | 2.09e+06 | 1.73 | y 26:12 | 1.21 | 25.9 | | * | 2.5 | * | 1.028 | 1.024-1.034 | |
| Tri | PCB-19 | 2.28e+05 | 1.18 | y 24:29 | 1.30 | 5.66 | | * | 2.5 | * | 1.001 | 0.996-1.006 | |
| Tri | PCB-30 | * | * | n NotFη | 1.83 | * | | 1960 | 2.5 | 0.721 | * | 1.032-1.042 | |
| Tri | PCB-18 | 1.59e+06 | 1.07 | y 26:07 | 0.86 | 37.7 | | * | 2.5 | * | 0.954 | 0.949-0.959 | |
| Tri | PCB-17 | 5.95e+05 | 1.16 | y 26:17 | 0.90 | 13.5 | | * | 2.5 | * | 0.960 | 0.955-0.965 | |
| Tri | PCB-24/27 | 2.91e+05 | 1.25 | n 26:51 | 1.18 | 5.05 | R | * | 2.5 | * | 0.981 | 0.976-0.986 | |
| Tri | PCB-16/32 | 1.55e+06 | 1.15 | y 27:22 | 1.03 | 30.7 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Tri | PCB-34 | * | * | n NotFη | 1.26 | * | | 2920 | 2.5 | 1.66 | * | 0.956-0.966 | |
| Tri | PCB-23 | * | * | n NotFη | 1.31 | * | | 2920 | 2.5 | 1.60 | * | 0.959-0.969 | |
| Tri | PCB-29 | * | * | n NotFη | 1.33 | * | | 2920 | 2.5 | 1.58 | * | 0.967-0.977 | |
| Tri | PCB-26 | 2.74e+05 | 1.05 | y 28:43 | 1.29 | 5.97 | | * | 2.5 | * | 0.979 | 0.974-0.984 | |
| Tri | PCB-25 | 1.31e+05 | 1.06 | y 28:53 | 1.34 | 2.73 | | * | 2.5 | * | 0.985 | 0.980-0.990 | |
| Tri | PCB-31 | 1.32e+06 | 0.97 | y 29:15 | 1.42 | 26.2 | | * | 2.5 | * | 0.997 | 0.992-1.002 | |
| Tri | PCB-28 | 1.80e+06 | 0.92 | y 29:21 | 1.38 | 36.6 | | * | 2.5 | * | 1.001 | 0.996-1.006 | |
| Tri | PCB-20/21/33 | 8.99e+05 | 0.92 | y 29:59 | 1.31 | 19.3 | | * | 2.5 | * | 1.022 | 1.017-1.027 | |
| Tri | PCB-22 | 7.14e+05 | 1.17 | y 30:24 | 1.32 | 15.2 | | * | 2.5 | * | 1.036 | 1.032-1.042 | |
| Tri | PCB-36 | * | * | n NotFη | 1.38 | * | | 2920 | 2.5 | 2.04 | * | 0.929-0.939 | |
| Tri | PCB-39 | * | * | n NotFη | 1.42 | * | | 2920 | 2.5 | 1.97 | * | 0.943-0.953 | |
| Tri | PCB-38 | * | * | n NotFη | 1.35 | * | | 2920 | 2.5 | 2.07 | * | 0.967-0.976 | |
| Tri | PCB-35 | 3.40e+05 | 0.98 | y 32:52 | 1.38 | 7.16 | | * | 2.5 | * | 0.986 | 0.982-0.992 | |
| Tri | PCB-37 | 1.22e+06 | 1.01 | y 33:21 | 1.39 | 25.4 | | * | 2.5 | * | 1.000 | 0.996-1.006 | |
| Tetra | PCB-54 | * | * | n NotFη | 1.20 | * | | 2740 | 2.5 | 1.14 | * | 0.996-1.006 | |
| Tetra | PCB-50 | * | * | n NotFη | 0.97 | * | | 2740 | 2.5 | 1.41 | * | 1.037-1.047 | |
| Tetra | PCB-53 | 5.32e+05 | 0.85 | y 30:02 | 1.19 | 12.7 | | * | 2.5 | * | 0.945 | 0.941-0.951 | |
| Tetra | PCB-51 | 1.79e+05 | 0.83 | y 30:23 | 1.15 | 4.42 | | * | 2.5 | * | 0.956 | 0.952-0.962 | |
| Tetra | PCB-45 | 4.63e+05 | 0.74 | y 30:49 | 0.97 | 13.6 | | * | 2.5 | * | 0.970 | 0.966-0.976 | |
| Tetra | PCB-46 | 2.08e+05 | 0.85 | y 31:18 | 0.95 | 6.21 | | * | 2.5 | * | 0.985 | 0.982-0.992 | |

Integrations by:

Analyst: DMS

Date: 9/24/14

Reviewed by: AK

Date: 9/24/14

Client ID: PS-OS-01-20140909-W
Lab ID: 1400659-02

Filename: 140919E1
GC Column ID: ZB-1

S:8 Acq:19-SEP-14 17:03:47
ICal: PCBVG8-6-20-14 wt/vol:1.0123

ConCal: ST140919E1-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-----------------|----------|------|---------------|------|------|------|-------|-----|-------|-------|-------------|-----|
| Tetra | PCB-52/69 | 3.77e+06 | 0.83 | y 31:47 | 1.28 | 83.8 | | * | 2.5 | * | 1.001 | 0.996-1.006 | |
| Tetra | PCB-73 | * | * | n NotF η | 1.37 | * | | 2740 | 2.5 | 1.40 | * | 1.000-1.010 | |
| Tetra | PCB-43/49 | 1.60e+06 | 0.81 | y 32:05 | 1.11 | 40.9 | | * | 2.5 | * | 1.010 | 1.005-1.015 | |
| Tetra | PCB-47 | 6.48e+05 | 0.76 | y 32:17 | 1.13 | 15.0 | | * | 2.5 | * | 1.000 | 0.996-1.006 | |
| Tetra | PCB-48/75 | 4.67e+05 | 0.79 | y 32:25 | 1.30 | 9.41 | | * | 2.5 | * | 1.004 | 0.999-1.009 | |
| Tetra | PCB-65 | * | * | n NotF η | 1.33 | * | | 2740 | 2.5 | 1.41 | * | 1.007-1.017 | |
| Tetra | PCB-62 | * | * | n NotF η | 1.29 | * | | 2740 | 2.5 | 1.45 | * | 1.011-1.021 | |
| Tetra | PCB-44 | 2.37e+06 | 0.78 | y 33:10 | 0.94 | 66.4 | | * | 2.5 | * | 1.027 | 1.020-1.030 | |
| Tetra | PCB-42/59 | 1.07e+06 | 0.84 | y 33:25 | 1.22 | 23.2 | | * | 2.5 | * | 1.035 | 1.028-1.038 | |
| Tetra | PCB-41/64/71/72 | * | * | n NotF η | 1.31 | * | | 2740 | 2.5 | 1.26 | * | 1.046-1.056 | |
| Tetra | PCB-68 | * | * | n NotF η | 1.49 | * | | 2740 | 2.5 | 1.06 | * | 1.054-1.064 | |
| Tetra | PCB-40 | 2.15e+05 | 0.77 | y 34:22 | 0.82 | 6.91 | | * | 2.5 | * | 1.065 | 1.061-1.071 | |
| Tetra | PCB-57 | * | * | n NotF η | 1.11 | * | | 2740 | 2.5 | 1.06 | * | 0.965-0.975 | |
| Tetra | PCB-67 | 1.38e+05 | 0.72 | y 35:01 | 1.07 | 2.50 | | * | 2.5 | * | 0.979 | 0.974-0.984 | |
| Tetra | PCB-58 | * | * | n NotF η | 1.10 | * | | 2740 | 2.5 | 1.07 | * | 0.977-0.987 | |
| Tetra | PCB-63 | 9.40e+04 | 0.96 | n 35:17 | 1.12 | 1.64 | R | * | 2.5 | * | 0.986 | 0.982-0.992 | |
| Tetra | PCB-74 | 1.37e+06 | 0.81 | y 35:35 | 1.20 | 22.2 | | * | 2.5 | * | 0.995 | 0.990-1.000 | |
| Tetra | PCB-61/70 | 4.58e+06 | 0.80 | y 35:48 | 1.08 | 82.7 | | * | 2.5 | * | 1.001 | 0.994-1.004 | |
| Tetra | PCB-76/66 | 3.16e+06 | 0.83 | y 36:00 | 1.14 | 54.1 | | * | 2.5 | * | 1.007 | 1.001-1.011 | |
| Tetra | PCB-80 | * | * | n NotF η | 1.28 | * | | 2740 | 2.5 | 0.926 | * | 0.996-1.006 | |
| Tetra | PCB-55 | 1.77e+05 | 0.87 | y 36:30 | 1.11 | 2.96 | | * | 2.5 | * | 1.009 | 1.005-1.015 | |
| Tetra | PCB-56/60 | 2.42e+06 | 0.81 | y 37:00 | 1.09 | 41.2 | | * | 2.5 | * | 1.023 | 1.018-1.028 | |
| Tetra | PCB-79 | 1.95e+05 | 0.97 | n 38:05 | 1.12 | 3.20 | R | * | 2.5 | * | 1.053 | 1.048-1.058 | |
| Tetra | PCB-78 | * | * | n NotF η | 1.24 | * | | 2740 | 2.5 | 1.17 | * | 0.982-0.992 | |
| Tetra | PCB-81 | 9.32e+04 | 0.97 | n 39:18 | 1.38 | 1.49 | R | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Tetra | PCB-77 | 1.18e+06 | 0.92 | n 39:53 | 1.21 | 21.4 | R | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Penta | PCB-104 | * | * | n NotF η | 1.26 | * | | 2210 | 2.5 | 1.74 | * | 0.996-1.006 | |
| Penta | PCB-96 | 8.02e+04 | 1.50 | y 34:15 | 1.09 | 1.86 | | * | 2.5 | * | 1.039 | 1.034-1.044 | |
| Penta | PCB-103 | 6.72e+04 | 1.84 | n 34:44 | 0.93 | 1.82 | R | * | 2.5 | * | 1.054 | 1.050-1.060 | |
| Penta | PCB-100 | * | * | n NotF η | 1.00 | * | | 2210 | 2.5 | 2.18 | * | 1.061-1.071 | |
| Penta | PCB-94 | 7.00e+04 | 1.85 | n 35:33 | 1.11 | 2.05 | R | * | 2.5 | * | 0.986 | 0.981-0.991 | |
| Penta | PCB-95/98/102 | 1.25e+07 | 1.61 | y 36:05 | 1.21 | 334 | | * | 2.5 | * | 1.000 | 0.994-1.004 | |
| Penta | PCB-93 | * | * | n NotF η | 1.13 | * | | 2210 | 2.5 | 2.04 | * | 0.998-1.008 | |
| Penta | PCB-88/91 | 1.74e+06 | 1.54 | y 36:29 | 1.02 | 55.5 | | * | 2.5 | * | 1.012 | 1.006-1.016 | |
| Penta | PCB-121 | * | * | n NotF η | 1.90 | * | | 2210 | 2.5 | 1.21 | * | 1.009-1.019 | |
| Penta | PCB-84/92 | 5.68e+06 | 1.61 | y 37:23 | 1.05 | 161 | | * | 2.5 | * | 0.990 | 0.986-0.996 | |
| Penta | PCB-89 | 1.26e+05 | 1.60 | y 37:35 | 1.02 | 3.69 | | * | 2.5 | * | 0.996 | 0.991-1.001 | |

Analyst: DMS

Date: 9/24/14

Client ID: PS-OS-01-20140909-W
Lab ID: 1400659-02

Filename: 140919E1
GC Column ID: ZB-1

S:8 Acq:19-SEP-14 17:03:47
ICal: PCBVG8-6-20-14 wt/vol:1.0123

ConCal: ST140919E1-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|----------------|----------|------|---------------|------|------|------|-------|-----|------|-------|-------------|-----|
| Penta | PCB-90/101 | 1.40e+07 | 1.65 | y 37:46 | 1.19 | 352 | * | * | 2.5 | * | 1.000 | 0.996-1.006 | |
| Penta | PCB-113 | * | * | n NotF η | 1.35 | * | | 2210 | 2.5 | 1.62 | * | 1.002-1.012 | |
| Penta | PCB-99 | 4.28e+06 | 1.67 | y 38:05 | 1.29 | 99.2 | * | * | 2.5 | * | 1.009 | 1.005-1.015 | |
| Penta | PCB-119 | 2.71e+05 | 1.67 | y 38:34 | 1.72 | 5.31 | * | * | 2.5 | * | 0.988 | 0.982-0.992 | |
| Penta | PCB-108/112 | 6.56e+05 | 1.55 | y 38:43 | 1.29 | 17.2 | * | * | 2.5 | * | 0.991 | 0.986-0.996 | |
| Penta | PCB-83 | * | * | n NotF η | 1.52 | * | | 2210 | 2.5 | 1.63 | * | 0.991-1.001 | |
| Penta | PCB-97 | 3.49e+06 | 1.60 | y 39:04 | 1.25 | 94.4 | * | * | 2.5 | * | 1.000 | 0.996-1.006 | |
| Penta | PCB-86 | * | * | n NotF η | 1.02 | * | | 2210 | 2.5 | 2.43 | * | 1.000-1.010 | |
| Penta | PCB-87/117/125 | 5.53e+06 | 1.75 | y 39:21 | 1.56 | 120 | * | * | 2.5 | * | 1.008 | 1.002-1.012 | |
| Penta | PCB-111/115 | 2.32e+05 | 1.48 | y 39:29 | 1.75 | 4.47 | * | * | 2.5 | * | 1.011 | 1.007-1.017 | |
| Penta | PCB-85/116 | 1.93e+06 | 1.56 | y 39:36 | 1.30 | 50.2 | * | * | 2.5 | * | 1.014 | 1.010-1.020 | |
| Penta | PCB-120 | 9.86e+04 | 2.42 | n 39:50 | 1.78 | 1.87 | R | * | 2.5 | * | 1.020 | 1.016-1.026 | |
| Penta | PCB-110 | 2.49e+07 | 1.64 | y 40:00 | 1.68 | 500 | * | * | 2.5 | * | 1.024 | 1.020-1.030 | |
| Penta | PCB-82 | 1.37e+06 | 1.54 | y 40:37 | 0.74 | 48.3 | * | * | 2.5 | * | 0.976 | 0.972-0.982 | |
| Penta | PCB-124 | 1.04e+06 | 1.37 | y 41:18 | 1.32 | 20.5 | * | * | 2.5 | * | 0.992 | 0.988-0.998 | |
| Penta | PCB-107/109 | 1.09e+06 | 1.76 | y 41:29 | 1.22 | 23.4 | * | * | 2.5 | * | 0.997 | 0.991-1.001 | |
| Penta | PCB-123 | 2.46e+05 | 1.69 | y 41:38 | 1.22 | 5.25 | * | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Penta | PCB-106/118 | 1.45e+07 | 1.62 | y 41:48 | 1.22 | 301 | * | * | 2.5 | * | 1.000 | 0.996-1.006 | |
| Penta | PCB-114 | 3.14e+05 | 1.67 | y 42:27 | 1.36 | 7.16 | * | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Penta | PCB-122 | 1.62e+05 | 1.63 | y 42:36 | 1.24 | 4.04 | * | * | 2.5 | * | 1.004 | 0.999-1.009 | |
| Penta | PCB-105 | 5.57e+06 | 1.57 | y 43:20 | 1.28 | 134 | * | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Penta | PCB-127 | * | * | n NotF η | 1.14 | * | | 8590 | 2.5 | 7.47 | * | 0.995-1.005 | |
| Penta | PCB-126 | 3.06e+05 | 1.61 | y 45:34 | 1.28 | 8.10 | * | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Hexa | PCB-155 | * | * | n NotF η | 1.14 | * | | 1690 | 2.5 | 1.13 | * | 0.966-1.006 | |
| Hexa | PCB-150 | 6.58e+04 | 1.35 | y 38:34 | 1.06 | 1.66 | * | * | 2.5 | * | 1.034 | 1.030-1.040 | |
| Hexa | PCB-152 | * | * | n NotF η | 1.10 | * | | 1690 | 2.5 | 1.17 | * | 1.043-1.053 | |
| Hexa | PCB-145 | * | * | n NotF η | 1.09 | * | | 1690 | 2.5 | 1.18 | * | 1.055-1.065 | |
| Hexa | PCB-136 | 5.21e+06 | 1.29 | y 39:49 | 1.08 | 129 | * | * | 2.5 | * | 1.068 | 1.064-1.074 | |
| Hexa | PCB-148 | * | * | n NotF η | 0.74 | * | | 1690 | 2.5 | 1.73 | * | 1.066-1.076 | |
| Hexa | PCB-154 | 2.50e+05 | 1.32 | y 40:24 | 0.88 | 7.61 | * | * | 2.5 | * | 1.084 | 1.079-1.089 | |
| Hexa | PCB-151 | 7.58e+06 | 1.33 | y 41:02 | 0.81 | 252 | * | * | 2.5 | * | 1.101 | 1.097-1.107 | |
| Hexa | PCB-135 | 3.62e+06 | 1.37 | y 41:16 | 0.78 | 125 | * | * | 2.5 | * | 1.107 | 1.101-1.113 | |
| Hexa | PCB-144 | 1.34e+06 | 1.25 | y 41:23 | 0.82 | 44.0 | * | * | 2.5 | * | 1.110 | 1.105-1.116 | |
| Hexa | PCB-147 | 3.44e+05 | 1.10 | y 41:31 | 0.83 | 11.2 | * | * | 2.5 | * | 1.114 | 1.011-1.120 | |
| Hexa | PCB-139/149 | 2.60e+07 | 1.30 | y 41:46 | 0.84 | 827 | * | * | 2.5 | * | 1.120 | 1.115-1.127 | |
| Hexa | PCB-140 | 9.91e+04 | 1.70 | n 41:57 | 0.79 | 3.40 | R | * | 2.5 | * | 1.125 | 1.120-1.132 | |
| Hexa | PCB-134/143 | 1.49e+06 | 1.28 | y 42:24 | 0.93 | 43.4 | * | * | 2.5 | * | 0.975 | 0.970-0.980 | |

Analyst: DMS

Date: 9/24/14

Client ID: PS-OS-01-20140909-W
Lab ID: 1400659-02

Filename: 140919E1 S:8 Acq:19-SEP-14 17:03:47
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0123

ConCal: ST140919E1-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-----------------|----------|------|---------|------|------|------|-------|-----|------|-------|-------------|-----|
| Hexa | PCB-133/142 | 7.16e+05 | 1.33 | y 42:41 | 0.95 | 20.4 | * | * | 2.5 | * | 0.982 | 0.977-0.987 | |
| Hexa | PCB-131 | * | * | n NotFη | 0.91 | * | | 4640 | 2.5 | 4.19 | * | 0.981-0.991 | |
| Hexa | PCB-146/165 | 5.06e+06 | 1.23 | y 43:05 | 1.16 | 118 | * | * | 2.5 | * | 0.991 | 0.986-0.996 | |
| Hexa | PCB-132/161 | 9.89e+06 | 1.29 | y 43:21 | 1.11 | 239 | * | * | 2.5 | * | 0.997 | 0.992-1.002 | |
| Hexa | PCB-153 | 3.15e+07 | 1.24 | y 43:29 | 1.18 | 720 | * | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Hexa | PCB-168 | * | * | n NotFη | 1.37 | * | | 4640 | 2.5 | 2.79 | * | 1.000-1.010 | |
| Hexa | PCB-141 | 7.12e+06 | 1.29 | y 44:13 | 0.97 | 201 | * | * | 2.5 | * | 1.000 | 0.996-1.005 | |
| Hexa | PCB-137 | 1.09e+06 | 1.22 | y 44:36 | 1.07 | 28.0 | * | * | 2.5 | * | 1.009 | 1.004-1.014 | |
| Hexa | PCB-130 | 1.77e+06 | 1.32 | y 44:43 | 0.85 | 57.5 | * | * | 2.5 | * | 1.012 | 1.007-1.017 | |
| Hexa | PCB-138/163/164 | 3.78e+07 | 1.31 | y 45:05 | 1.23 | 905 | * | * | 2.5 | * | 1.001 | 0.996-1.006 | |
| Hexa | PCB-158/160 | 4.25e+06 | 1.25 | y 45:18 | 1.29 | 96.5 | * | * | 2.5 | * | 1.006 | 1.001-1.011 | |
| Hexa | PCB-129 | 1.11e+06 | 1.24 | y 45:34 | 0.92 | 35.1 | * | * | 2.5 | * | 1.011 | 1.007-1.017 | |
| Hexa | PCB-166 | 1.25e+05 | 1.29 | y 46:02 | 1.12 | 2.97 | * | * | 2.5 | * | 0.994 | 0.988-0.998 | |
| Hexa | PCB-159 | * | * | n NotFη | 1.16 | * | | 4640 | 2.5 | 3.37 | * | 0.995-1.005 | |
| Hexa | PCB-128/162 | 4.73e+06 | 1.40 | y 46:38 | 1.02 | 124 | * | * | 2.5 | * | 1.006 | 1.002-1.012 | |
| Hexa | PCB-167 | 1.40e+06 | 1.24 | y 47:02 | 1.06 | 33.4 | * | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Hexa | PCB-156 | 2.81e+06 | 1.24 | y 48:19 | 1.18 | 66.0 | * | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Hexa | PCB-157 | 8.17e+05 | 1.38 | y 48:36 | 1.08 | 19.7 | * | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Hexa | PCB-169 | * | * | n NotFη | 1.11 | * | | 4640 | 2.5 | 4.10 | * | 0.995-1.005 | |
| Hepta | PCB-188 | 6.75e+04 | 1.31 | n 43:07 | 1.40 | 1.52 | R | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Hepta | PCB-184 | * | * | n NotFη | 1.24 | * | | 2380 | 2.5 | 1.12 | * | 1.006-1.016 | |
| Hepta | PCB-179 | 8.55e+06 | 1.05 | y 44:20 | 1.30 | 208 | * | * | 2.5 | * | 1.029 | 1.024-1.034 | |
| Hepta | PCB-176 | 2.39e+06 | 1.11 | y 44:48 | 1.36 | 55.5 | * | * | 2.5 | * | 1.039 | 1.035-1.045 | |
| Hepta | PCB-186 | * | * | n NotFη | 1.28 | * | | 2380 | 2.5 | 1.09 | * | 1.049-1.059 | |
| Hepta | PCB-178 | 2.75e+06 | 1.08 | y 45:55 | 0.94 | 93.0 | * | * | 2.5 | * | 1.065 | 1.061-1.071 | |
| Hepta | PCB-175 | 5.46e+05 | 0.99 | y 46:15 | 0.97 | 17.8 | * | * | 2.5 | * | 1.073 | 1.069-1.079 | |
| Hepta | PCB-182/187 | 1.83e+07 | 1.08 | y 46:25 | 1.01 | 571 | * | * | 2.5 | * | 1.077 | 1.073-1.083 | |
| Hepta | PCB-183 | 8.19e+06 | 1.02 | y 46:45 | 1.08 | 239 | * | * | 2.5 | * | 1.085 | 1.080-1.090 | |
| Hepta | PCB-185 | 1.70e+06 | 1.04 | y 47:24 | 1.34 | 62.2 | * | * | 2.5 | * | 0.956 | 0.951-0.961 | |
| Hepta | PCB-174 | 1.33e+07 | 1.07 | y 47:46 | 1.34 | 488 | * | * | 2.5 | * | 0.963 | 0.958-0.968 | |
| Hepta | PCB-181 | * | * | n NotFη | 1.36 | * | | 2380 | 2.5 | 1.69 | * | 0.961-0.971 | |
| Hepta | PCB-177 | 6.86e+06 | 1.01 | y 48:02 | 1.24 | 272 | * | * | 2.5 | * | 0.968 | 0.964-0.974 | |
| Hepta | PCB-171 | 3.01e+06 | 1.05 | y 48:19 | 1.31 | 113 | * | * | 2.5 | * | 0.974 | 0.970-0.980 | |
| Hepta | PCB-173 | 2.60e+05 | 0.90 | y 48:46 | 1.16 | 11.0 | * | * | 2.5 | * | 0.983 | 0.979-0.989 | |
| Hepta | PCB-172 | 2.03e+06 | 1.05 | y 49:13 | 1.22 | 81.7 | * | * | 2.5 | * | 0.992 | 0.988-0.998 | |
| Hepta | PCB-192 | * | * | n NotFη | 1.53 | * | | 2380 | 2.5 | 1.51 | * | 0.991-1.001 | |
| Hepta | PCB-180 | 2.79e+07 | 1.07 | y 49:37 | 1.43 | 962 | * | * | 2.5 | * | 1.000 | 0.995-1.005 | |

Analyst: *DMS*

Date: *9/24/14*

Client ID: PS-OS-01-20140909-W
Lab ID: 1400659-02

Filename: 140919E1 S:8 Acq:19-SEP-14 17:03:47
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0123

ConCal: ST140919E1-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-------------|----------|------|---------------|------|--------|--------------|-----------------|-----|------|-------|-------------|-----|
| Hepta | PCB-193 | 1.55e+06 | 1.05 | y 49:50 | 1.65 | 46.2 | | * | 2.5 | * | 1.005 | 0.999-1.009 | |
| Hepta | PCB-191 | 5.50e+05 | 1.10 | y 50:04 | 1.67 | 16.2 | | * | 2.5 | * | 1.009 | 1.004-1.014 | |
| Hepta | PCB-170 | 8.91e+06 | 1.06 | y 51:05 | 1.50 | 385 | | "* | 2.5 | * | 1.000 | 0.995-1.005 | |
| Hepta | PCB-190 | 2.29e+06 | 1.08 | y 51:14 | 2.02 | 73.5 | | * | 2.5 | * | 1.003 | 0.998-1.008 | |
| Hepta | PCB-189 | * | * | n NotF η | 1.54 | 16.146 | see "REI RI" | 2380 | 2.5 | 1.58 | * | 0.995-1.005 | |
| Octa | PCB-202 | 1.60e+06 | 0.91 | y 48:32 | 1.04 | 55.3 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Octa | PCB-201 | 9.68e+05 | 1.08 | n 49:01 | 1.10 | 31.5 | R | * | 2.5 | * | 1.010 | 1.006-1.016 | |
| Octa | PCB-204 | * | * | n NotF η | 0.99 | * | | 1800 | 2.5 | 1.67 | * | 1.009-1.019 | |
| Octa | PCB-197 | 3.20e+05 | 0.77 | y 49:29 | 1.07 | 10.7 | | * | 2.5 | * | 1.020 | 1.015-1.025 | |
| Octa | PCB-200 | 9.74e+05 | 0.93 | y 50:21 | 1.02 | 34.3 | | * | 2.5 | * | 1.038 | 1.032-1.044 | |
| Octa | PCB-198 | 2.14e+05 | 0.90 | y 51:38 | 0.74 | 10.3 | | * | 2.5 | * | 1.064 | 1.058-1.068 | |
| Octa | PCB-199 | 5.22e+06 | 0.95 | y 51:45 | 0.73 | 257 | | * | 2.5 | * | 1.067 | 1.060-1.070 | |
| Octa | PCB-196/203 | 5.68e+06 | 0.91 | y 52:01 | 0.77 | 263 | | * | 2.5 | * | 1.072 | 1.066-1.076 | |
| Octa | PCB-195 | 1.65e+06 | 0.87 | y 53:10 | 1.20 | 98.1 | | * | 2.5 | * | 0.984 | 0.979-0.989 | |
| Octa | PCB-194 | 4.30e+06 | 0.94 | y 54:02 | 1.25 | 246 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Octa | PCB-205 | 2.17e+05 | 0.84 | y 54:19 | 1.41 | 11.0 | | * | 2.5 | * | 1.005 | 1.001-1.011 | |
| Nona | PCB-208 | 4.39e+05 | 1.72 | n 53:18 | 0.96 | 22.4 | R | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Nona | PCB-207 | 2.54e+05 | 1.29 | y 53:37 | 0.92 | 13.6 | | * | 2.5 | * | 1.006 | 1.001-1.011 | |
| Nona | PCB-206 | 1.11e+06 | 1.43 | y 55:41 | 1.03 | 97.6 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Deca | PCB-209 | 3.33e+05 | 1.36 | n 57:02 | 1.18 | 26.2 | R | * | 2.5 | * | 1.000 | 0.995-1.005 | |

Analyst: DMS

Date: 9/24/14

Client ID: PS-OS-01-20140909-W
Lab ID: 1400659-02

Filename: 140919E1 S:8 Acq:19-SEP-14 17:03:47
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0123 EndCAL: NA

ConCal: ST140919E1-1

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| Name | Resp | RA | RT | RRF | Conc | |
|-----------------|----------|--------|-------|------|---------|-------------------|
| Total Mono-PCB | 2.42e+05 | 2.70 y | 16:22 | 1.22 | 3.56369 | |
| Total Di-PCB | 2.40e+07 | 1.69 y | 23:10 | 1.21 | 312.689 | |
| Total Tri-PCB | 3.96e+06 | 1.18 y | 24:29 | 1.16 | 87.4992 | |
| Total Tri-PCB | 6.70e+06 | 1.05 y | 28:43 | 1.35 | 138.591 | Sum:226.090 |
| Total Tetra-PCB | 2.34e+07 | 0.85 y | 30:02 | 1.17 | 488.291 | |
| Total Penta-PCB | 9.37e+07 | 1.50 y | 34:15 | 1.21 | 2196.92 | |
| Total Penta-PCB | 6.35e+06 | 1.67 y | 42:27 | 1.26 | 152.821 | Sum:2349.74 |
| Total Hexa-PCB | 4.44e+07 | 1.35 y | 38:34 | 0.92 | 1398.18 | |
| Total Hexa-PCB | 1.12e+08 | 1.28 y | 42:24 | 1.08 | 2708.98 | Sum:4107.17 |
| Total Hepta-PCB | 1.09e+08 | 1.05 y | 44:20 | 1.27 | 3695.34 | +16.146 = 3711.49 |
| Total Octa-PCB | 1.40e+07 | 0.91 y | 48:32 | 0.92 | 630.876 | |
| Total Octa-PCB | 6.16e+06 | 0.87 y | 53:10 | 1.29 | 355.036 | Sum:985.911 |
| Total Nona-PCB | 1.36e+06 | 1.29 y | 53:37 | 0.96 | 111.197 | |
| Total Deca-PCB | 3.33e+05 | 1.36 n | 57:02 | 1.18 | 26.1593 | |

Total PCB Conc:12408.4549720 +16.146 = ~~12424.6~~
12300

Integrations

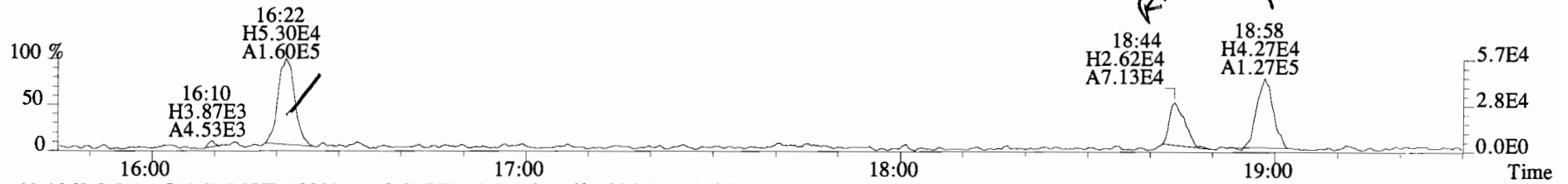
by

Analyst: DMS

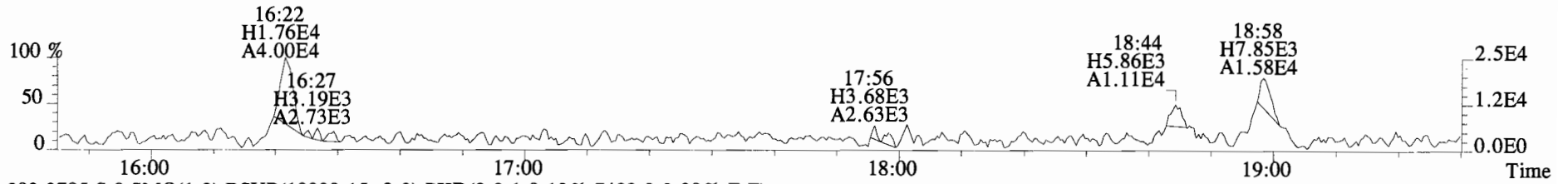
Date: 9/24/14

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec | CRS vs. RS | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec |
|-------------|----------|------|-----|------|-------|-------|-------------|------|-------------|----------------------|-------------|----------|------|-----|------|-------|-------|-------------|------|------|
| 13C-PCB-1 | 1.07e+08 | 3.57 | y | 0.89 | 16:20 | 0.624 | 0.622-0.628 | 1380 | 69.7 | | | | | | | | | | | |
| 13C-PCB-3 | 1.03e+08 | 3.52 | y | 0.93 | 18:57 | 0.724 | 0.721-0.729 | 1270 | 64.3 | | 13C-PCB-79 | 1.26e+08 | 0.80 | y | 1.01 | 38:04 | 1.029 | 1.023-1.033 | 1910 | 96.7 |
| 13C-PCB-4 | 6.87e+07 | 1.58 | y | 0.55 | 20:18 | 0.775 | 0.772-0.780 | 1440 | 72.8 | | 13C-PCB-178 | 5.05e+07 | 0.46 | y | 0.63 | 45:53 | 0.984 | 0.979-0.989 | 2130 | 108 |
| 13C-PCB-9 | 1.05e+08 | 1.59 | y | 0.83 | 22:05 | 0.843 | 0.840-0.848 | 1460 | 73.8 | | | | | | | | | | | |
| 13C-PCB-11 | 1.32e+08 | 1.57 | y | 0.94 | 25:29 | 0.973 | 0.968-0.978 | 1610 | 81.7 | PS vs. IS | | | | | | | | | | |
| 13C-PCB-19 | 6.14e+07 | 1.11 | y | 0.53 | 24:28 | 0.934 | 0.929-0.939 | 1320 | 67.0 | | 13C-PCB-79 | 1.26e+08 | 0.80 | y | 1.20 | 38:04 | 0.969 | 0.963-0.973 | 2320 | 117 |
| 13C-PCB-28 | 7.03e+07 | 1.08 | y | 0.89 | 29:20 | 1.004 | 0.999-1.009 | 1620 | 81.9 | | 13C-PCB-178 | 5.05e+07 | 0.46 | y | 0.94 | 45:53 | 0.925 | 0.920-0.930 | 2650 | 134 |
| 13C-PCB-32 | 9.69e+07 | 1.14 | y | 0.81 | 27:22 | 1.045 | 1.041-1.051 | 1370 | 69.1 | | | | | | | | | | | |
| 13C-PCB-37 | 6.82e+07 | 1.12 | y | 0.83 | 33:20 | 1.141 | 1.131-1.143 | 1680 | 84.9 | | | | | | | | | | | |
| 13C-PCB-47 | 7.52e+07 | 0.80 | y | 0.74 | 32:17 | 0.873 | 0.867-0.875 | 1550 | 78.2 | | | | | | | | | | | |
| 13C-PCB-52 | 6.95e+07 | 0.81 | y | 0.71 | 31:46 | 0.859 | 0.853-0.861 | 1500 | 76.1 | | | | | | | | | | | |
| 13C-PCB-54 | 8.62e+07 | 0.81 | y | 0.85 | 28:13 | 0.763 | 0.758-0.766 | 1550 | 78.6 | | | | | | | | | | | |
| 13C-PCB-70 | 1.01e+08 | 0.81 | y | 0.94 | 35:46 | 0.967 | 0.961-0.971 | 1640 | 83.1 | | | | | | | | | | | |
| 13C-PCB-77 | 9.02e+07 | 0.83 | y | 0.89 | 39:53 | 1.078 | 1.073-1.083 | 1550 | 78.2 | | | | | | | | | | | |
| 13C-PCB-80 | 1.07e+08 | 0.82 | y | 0.96 | 36:11 | 0.978 | 0.972-0.982 | 1700 | 86.1 | | | | | | | | | | | |
| 13C-PCB-81 | 8.92e+07 | 0.82 | y | 0.84 | 39:18 | 1.062 | 1.057-1.067 | 1630 | 82.4 | | | | | | | | | | | |
| 13C-PCB-95 | 6.09e+07 | 1.59 | y | 0.74 | 36:04 | 0.913 | 0.908-0.918 | 1600 | 80.7 | RS | | | | | | | | | | |
| 13C-PCB-97 | 5.85e+07 | 1.60 | y | 0.69 | 39:03 | 0.989 | 0.984-0.994 | 1650 | 83.7 | | Name | Resp | RA | RRF | RT | Conc | | | | |
| 13C-PCB-101 | 6.62e+07 | 1.60 | y | 0.79 | 37:45 | 0.956 | 0.951-0.961 | 1640 | 83.2 | | 13C-PCB-15 | 1.72e+08 | 1.57 | y | 1.00 | 26:11 | 1980 | | | |
| 13C-PCB-104 | 7.82e+07 | 1.58 | y | 1.00 | 32:58 | 0.835 | 0.829-0.837 | 1530 | 77.6 | | 13C-PCB-31 | 9.66e+07 | 1.08 | y | 1.00 | 29:13 | 1980 | | | |
| 13C-PCB-105 | 6.42e+07 | 1.64 | y | 1.24 | 43:19 | 0.929 | 0.924-0.934 | 1380 | 69.8 | | 13C-PCB-60 | 1.29e+08 | 0.80 | y | 1.00 | 37:00 | 1980 | | | |
| 13C-PCB-114 | 6.39e+07 | 1.65 | y | 1.21 | 42:27 | 0.911 | 0.905-0.915 | 1410 | 71.3 | | 13C-PCB-111 | 1.01e+08 | 1.58 | y | 1.00 | 39:29 | 1980 | | | |
| 13C-PCB-118 | 7.77e+07 | 1.59 | y | 0.98 | 41:48 | 1.059 | 1.054-1.064 | 1540 | 77.9 | | 13C-PCB-128 | 7.43e+07 | 1.32 | y | 1.00 | 46:37 | 1980 | | | |
| 13C-PCB-123 | 7.58e+07 | 1.61 | y | 0.95 | 41:37 | 1.054 | 1.049-1.059 | 1560 | 78.8 | | 13C-PCB-205 | 3.69e+07 | 0.91 | y | 1.00 | 54:19 | 1980 | | | |
| 13C-PCB-126 | 5.81e+07 | 1.66 | y | 1.16 | 45:33 | 0.977 | 0.972-0.982 | 1330 | 67.3 | | | | | | | | | | | |
| 13C-PCB-127 | 7.11e+07 | 1.65 | y | 1.34 | 43:39 | 0.936 | 0.931-0.941 | 1410 | 71.3 | | | | | | | | | | | |
| 13C-PCB-138 | 6.74e+07 | 1.31 | y | 1.04 | 45:03 | 0.966 | 0.961-0.971 | 1720 | 86.9 | | | | | | | | | | | |
| 13C-PCB-141 | 7.18e+07 | 1.30 | y | 1.07 | 44:12 | 0.948 | 0.943-0.953 | 1780 | 90.1 | | | | | | | | | | | |
| 13C-PCB-153 | 7.35e+07 | 1.31 | y | 1.11 | 43:28 | 0.932 | 0.927-0.937 | 1750 | 88.8 | | | | | | | | | | | |
| 13C-PCB-155 | 7.34e+07 | 1.26 | y | 0.83 | 37:17 | 0.944 | 0.939-0.949 | 1720 | 87.1 | | | | | | | | | | | |
| 13C-PCB-156 | 7.13e+07 | 1.33 | y | 1.24 | 48:19 | 1.036 | 1.032-1.042 | 1520 | 77.1 | | | | | | | | | | | |
| 13C-PCB-157 | 7.56e+07 | 1.34 | y | 1.31 | 48:35 | 1.042 | 1.037-1.047 | 1530 | 77.6 | | | | | | | | | | | |
| 13C-PCB-159 | 7.42e+07 | 1.32 | y | 1.20 | 46:20 | 0.994 | 0.989-0.999 | 1650 | 83.3 | | | | | | | | | | | |
| 13C-PCB-167 | 7.79e+07 | 1.29 | y | 1.32 | 47:01 | 1.009 | 1.004-1.014 | 1570 | 79.4 | | | | | | | | | | | |
| 13C-PCB-169 | 6.02e+07 | 1.37 | y | 1.22 | 50:43 | 1.088 | 1.082-1.092 | 1320 | 66.7 | | | | | | | | | | | |
| 13C-PCB-170 | 3.05e+07 | 0.45 | y | 0.54 | 51:04 | 1.095 | 1.089-1.101 | 1510 | 76.5 | | | | | | | | | | | |
| 13C-PCB-180 | 4.01e+07 | 0.47 | y | 0.67 | 49:36 | 1.064 | 1.059-1.069 | 1580 | 80.2 | | | | | | | | | | | |
| 13C-PCB-188 | 6.24e+07 | 0.46 | y | 0.94 | 43:06 | 0.925 | 0.919-0.929 | 1770 | 89.8 | | | | | | | | | | | |
| 13C-PCB-189 | 2.84e+07 | 0.43 | y | 0.72 | 52:32 | 1.127 | 1.120-1.132 | 1050 | (53.4) 48.1 | * Sec. "REI RI" | | | | | | | | | | |
| 13C-PCB-194 | 2.77e+07 | 0.92 | y | 0.81 | 54:02 | 0.995 | 0.990-1.000 | 1830 | 92.6 | | | | | | | | | | | |
| 13C-PCB-202 | 5.51e+07 | 0.90 | y | 0.83 | 48:31 | 1.041 | 1.036-1.046 | 1760 | 89.0 | Analyst: <i>DMS</i> | | | | | | | | | | |
| 13C-PCB-206 | 2.18e+07 | 0.76 | y | 0.66 | 55:40 | 1.025 | 1.021-1.031 | 1780 | 89.9 | Date: <i>9/24/14</i> | | | | | | | | | | |
| 13C-PCB-208 | 4.02e+07 | 0.76 | y | 1.12 | 53:18 | 0.981 | 0.976-0.986 | 1910 | 96.9 | | | | | | | | | | | |
| 13C-PCB-209 | 2.14e+07 | 1.23 | y | 0.61 | 57:02 | 1.050 | 1.044-1.054 | 1870 | 94.4 | | | | | | | | | | | |

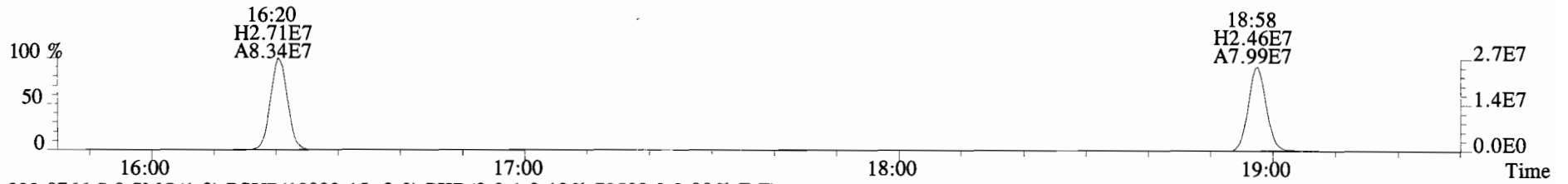
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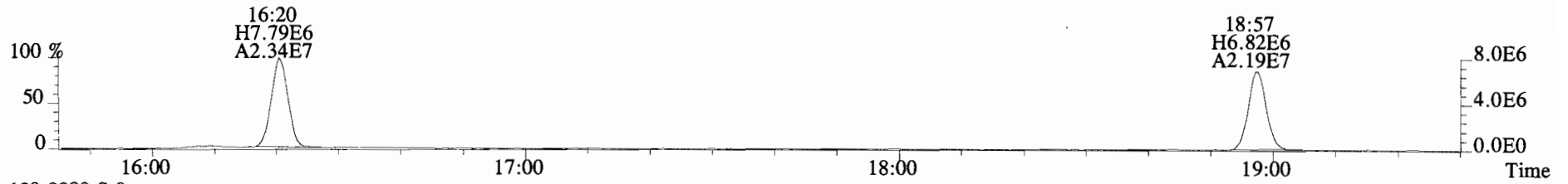
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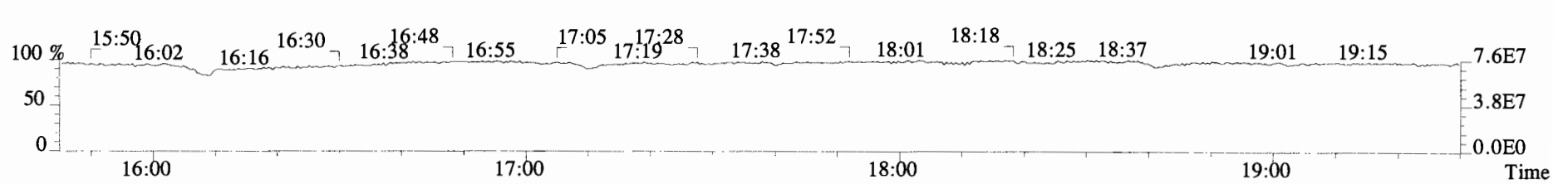
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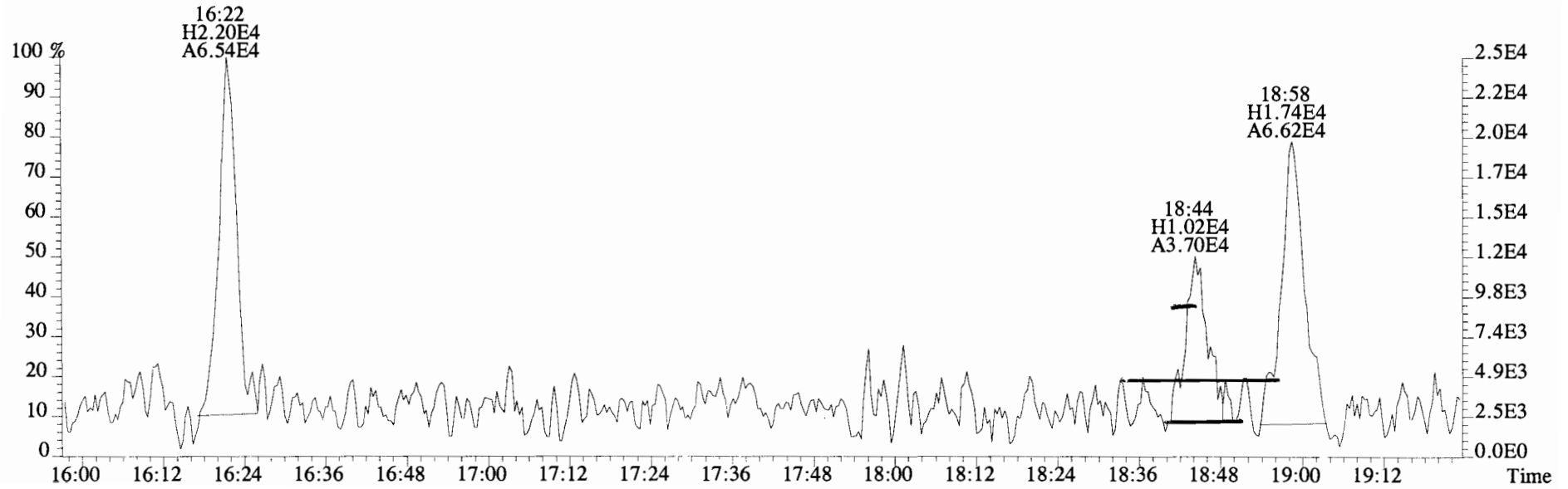
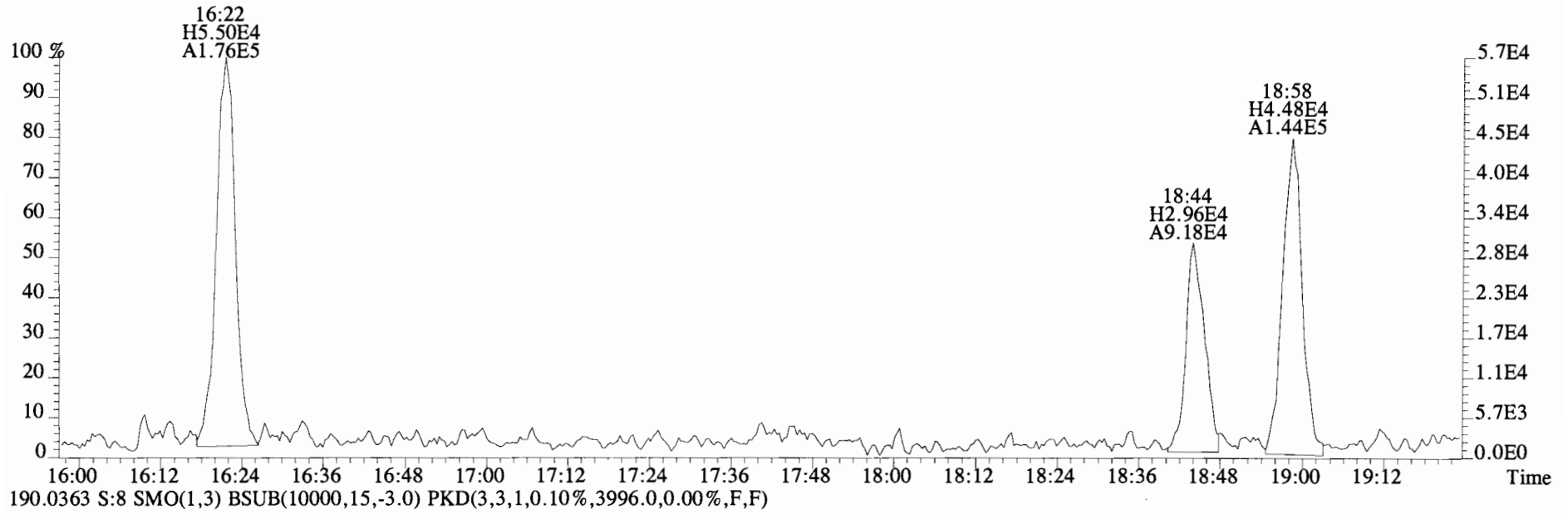
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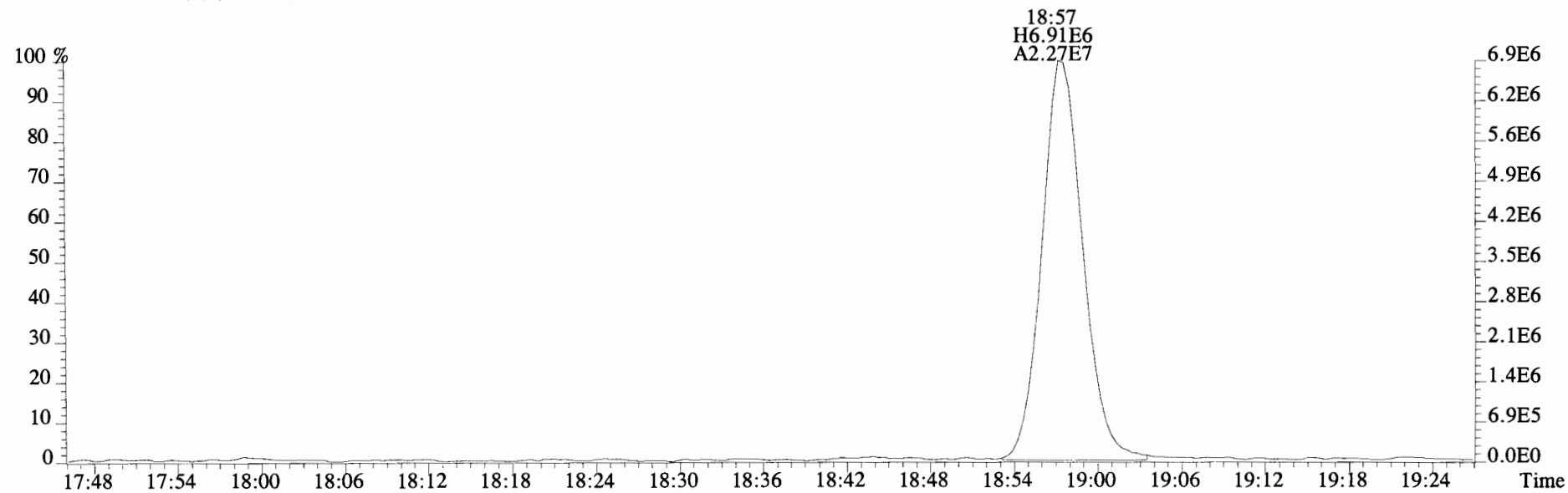
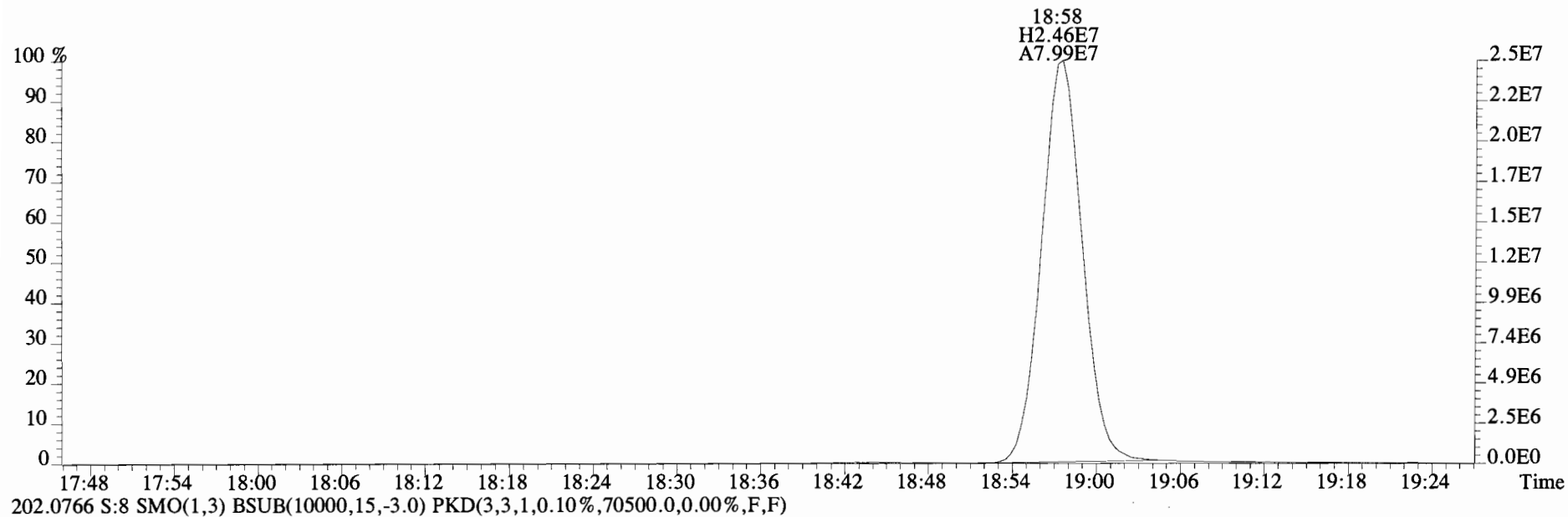
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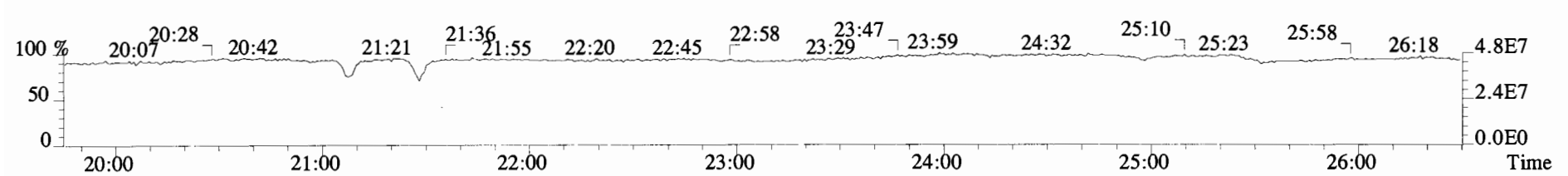
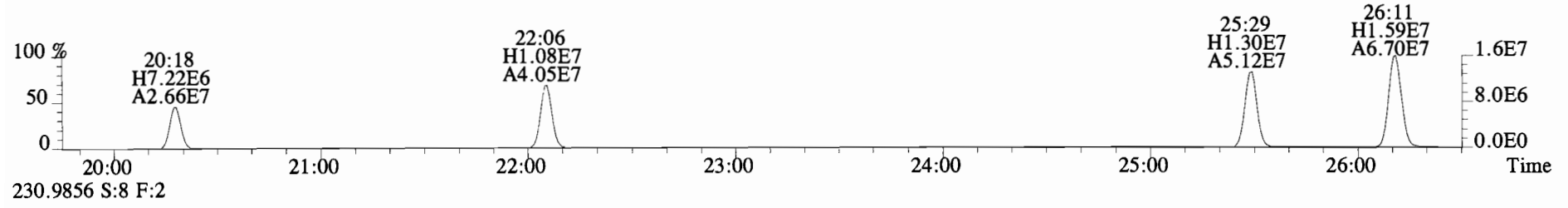
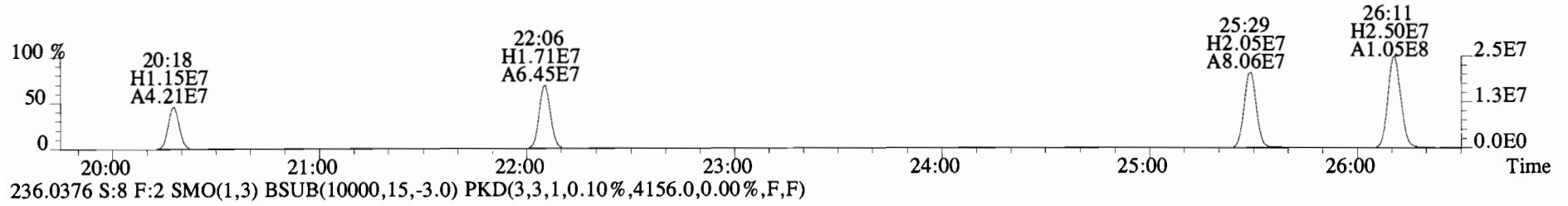
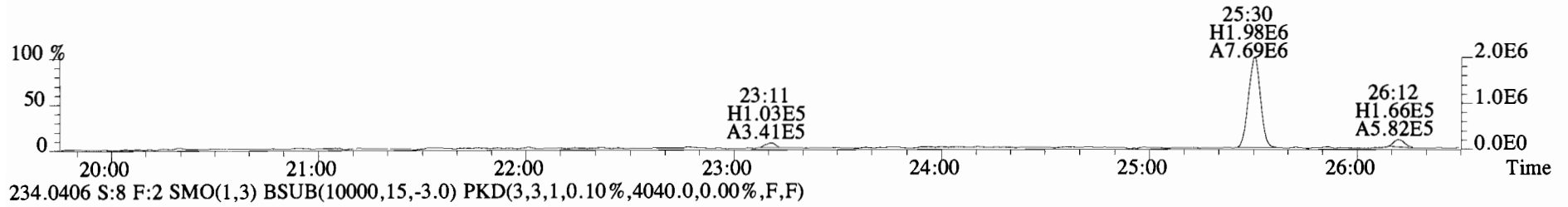
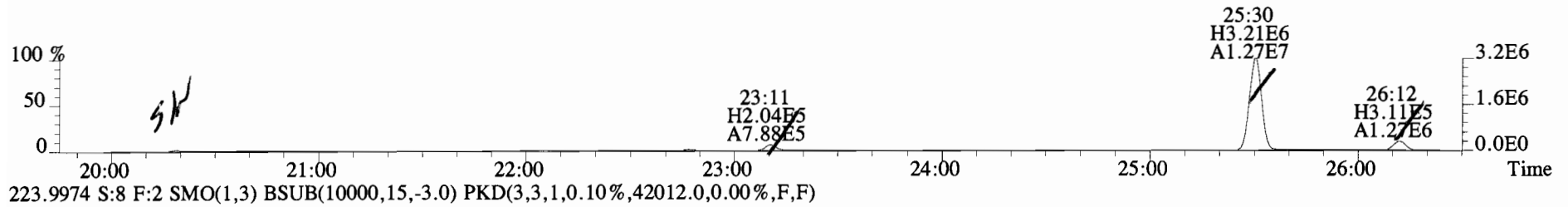
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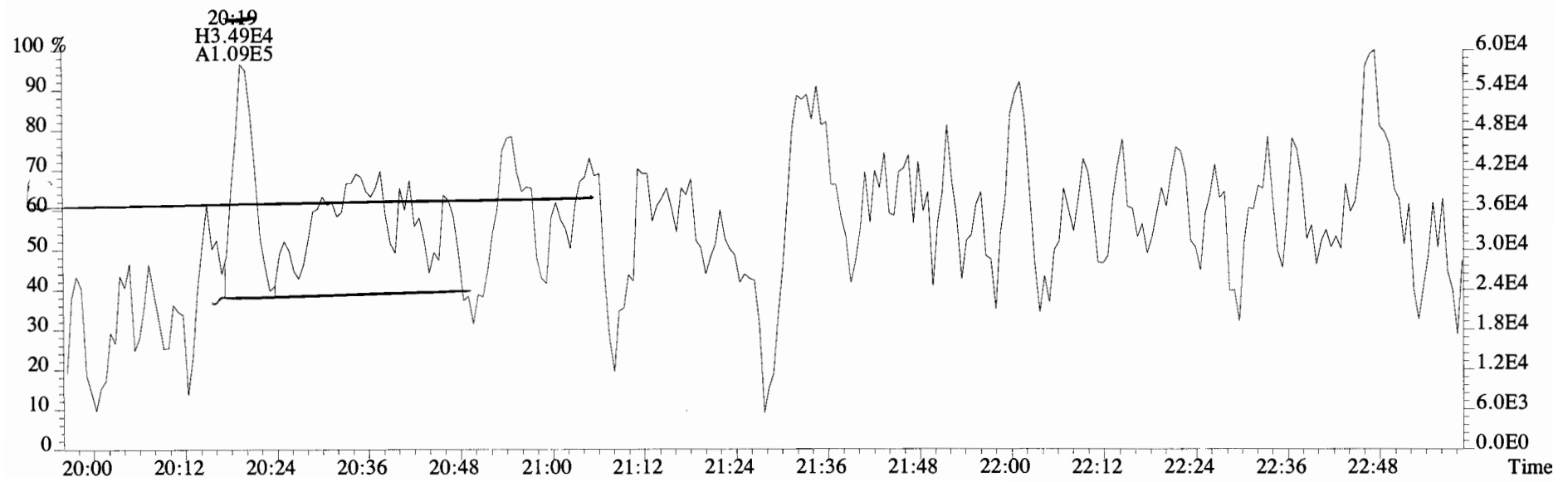
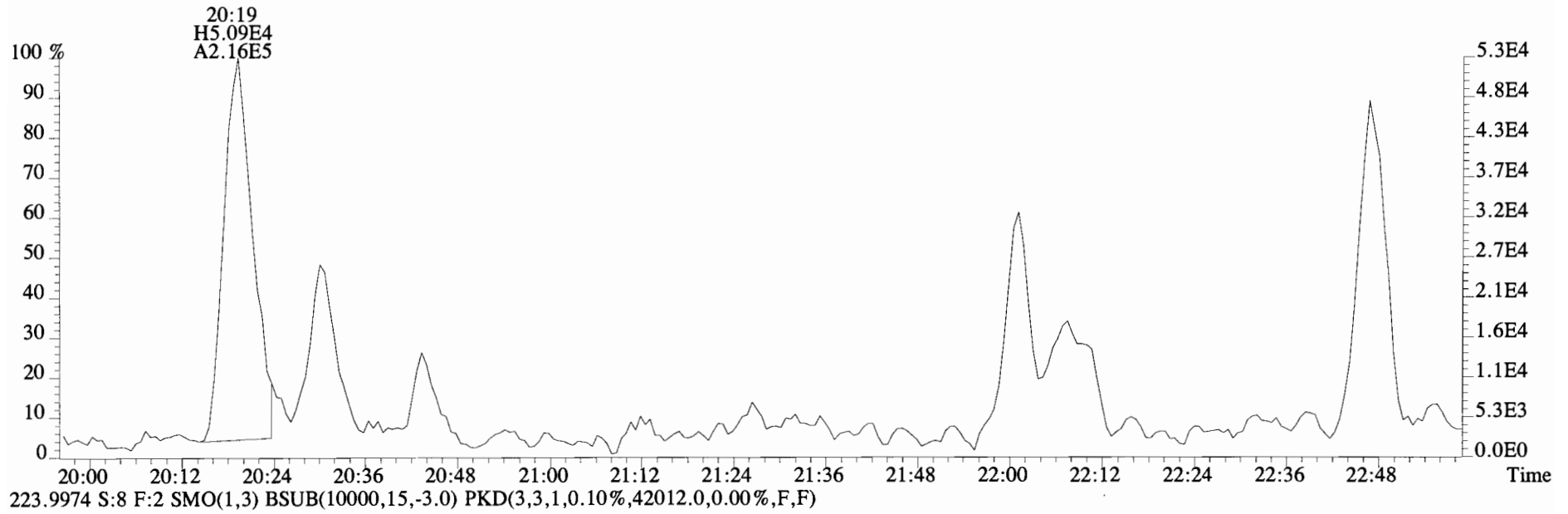
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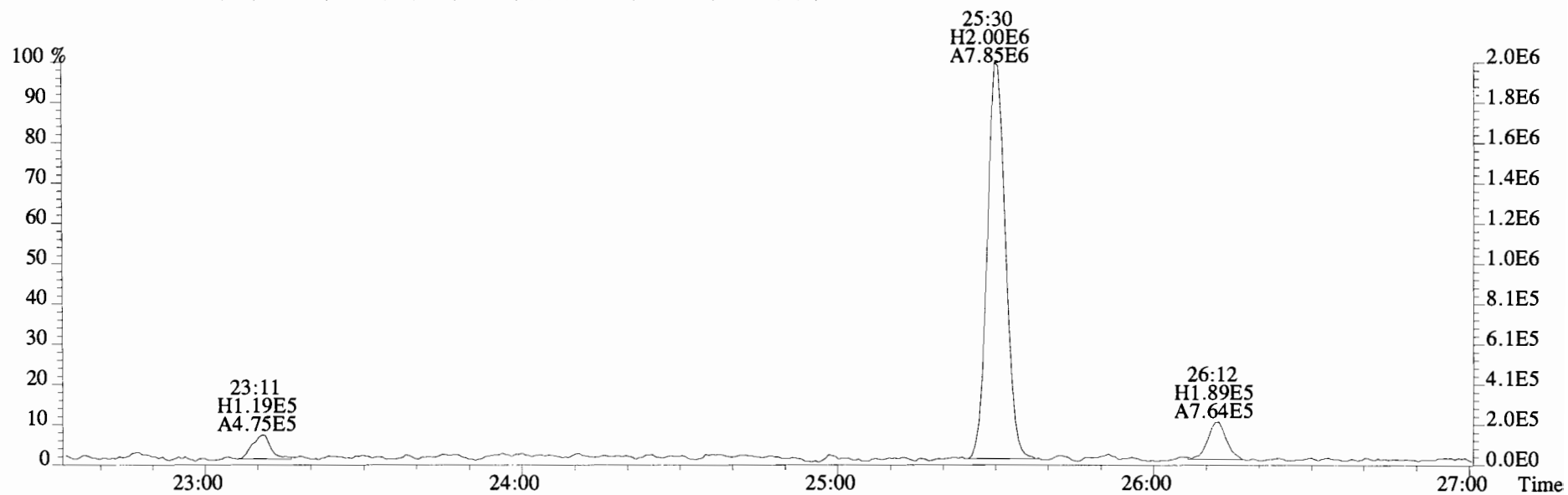
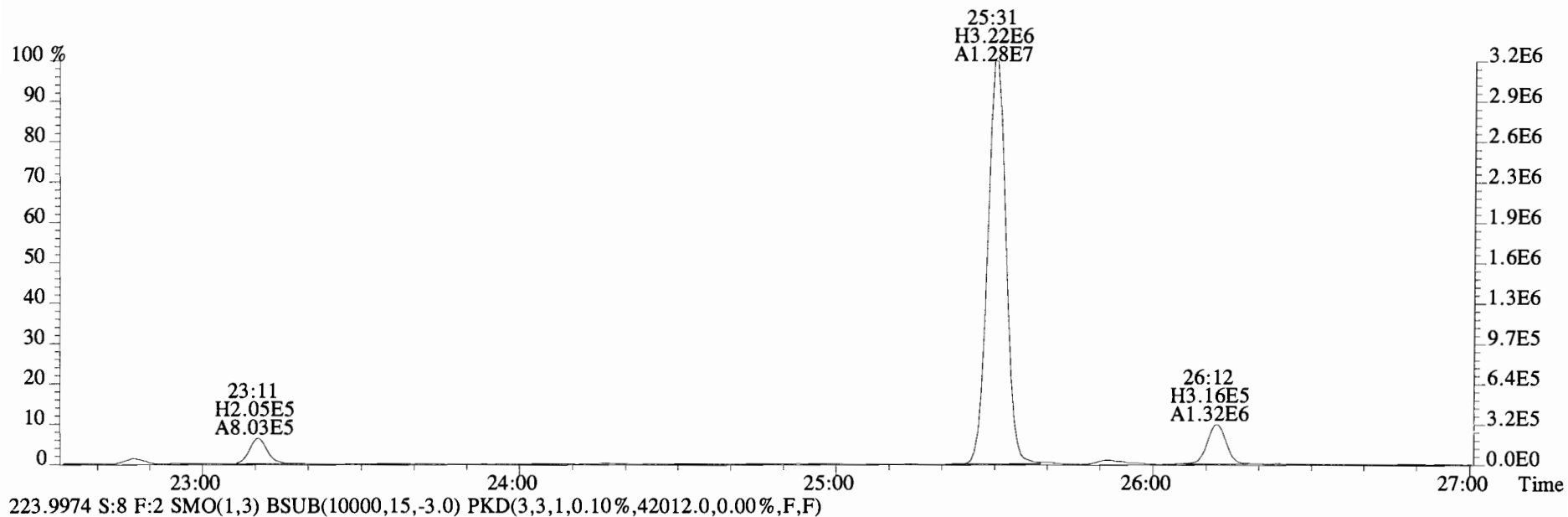
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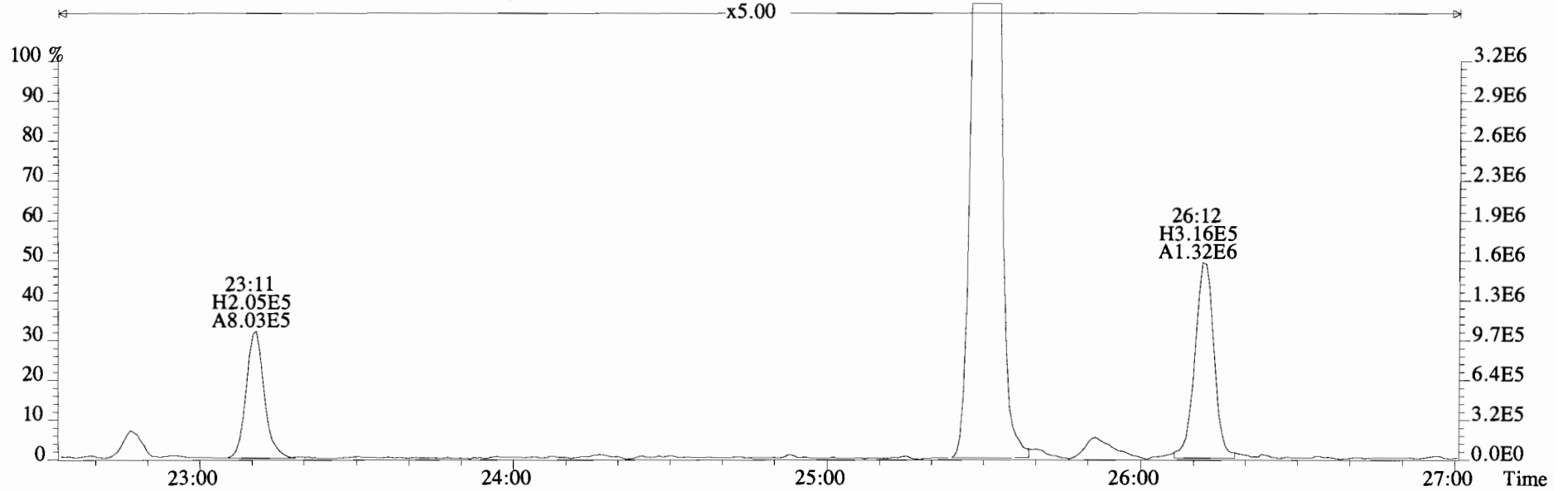
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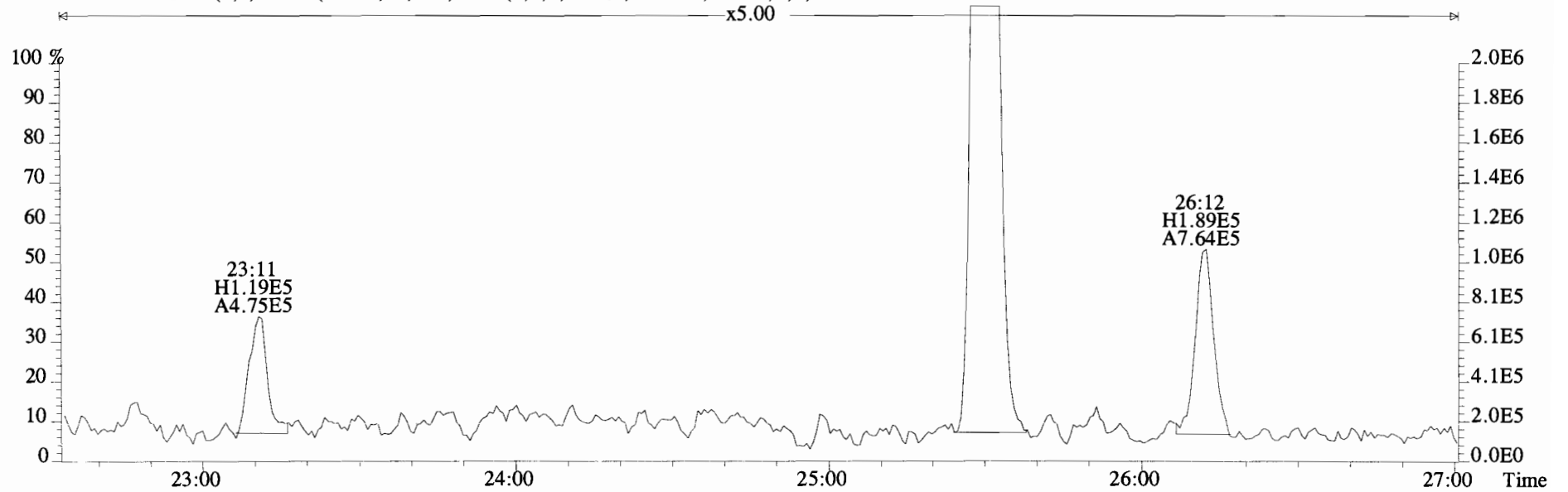
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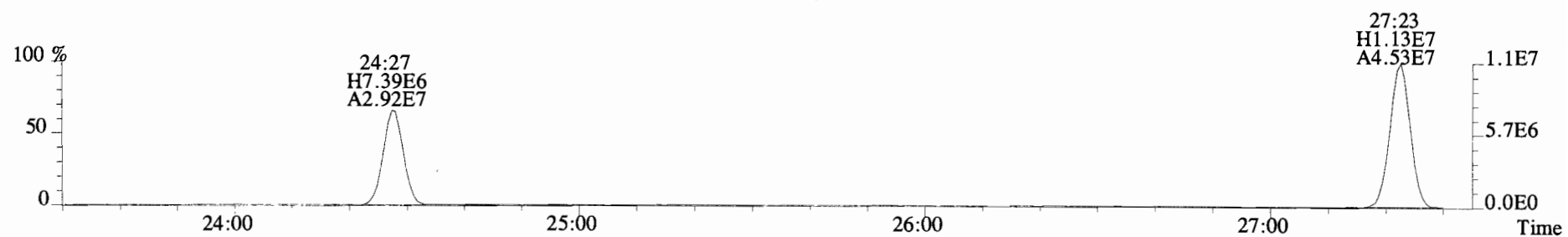
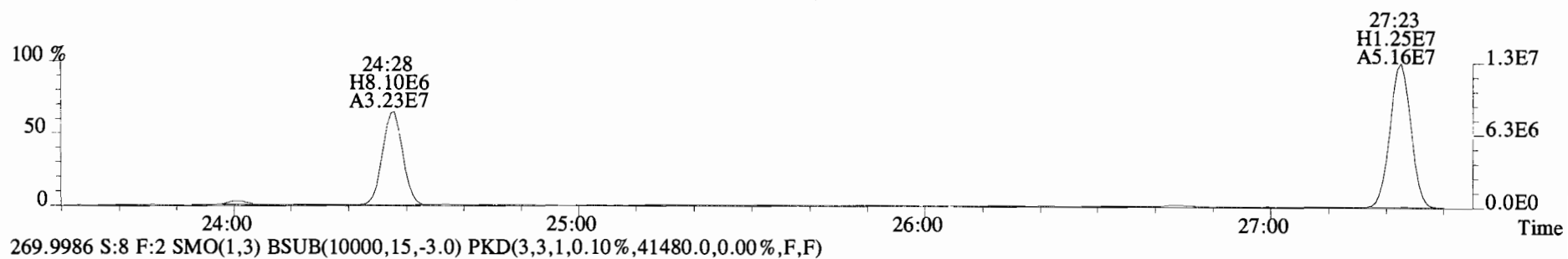
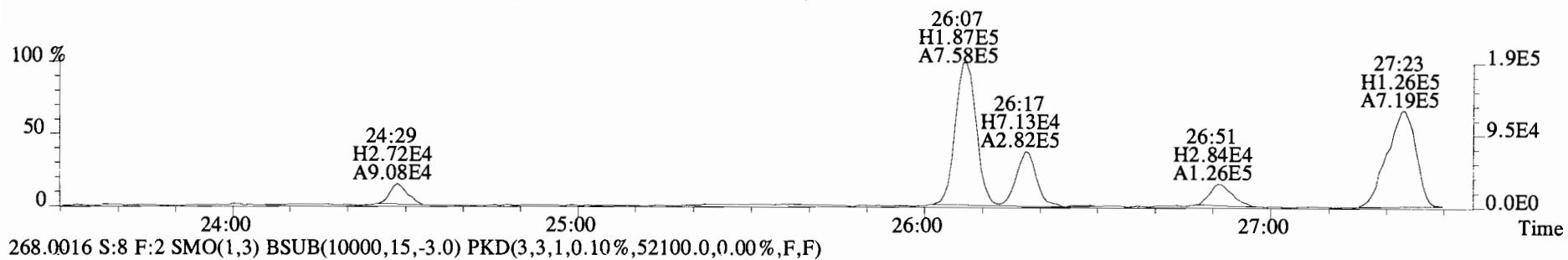
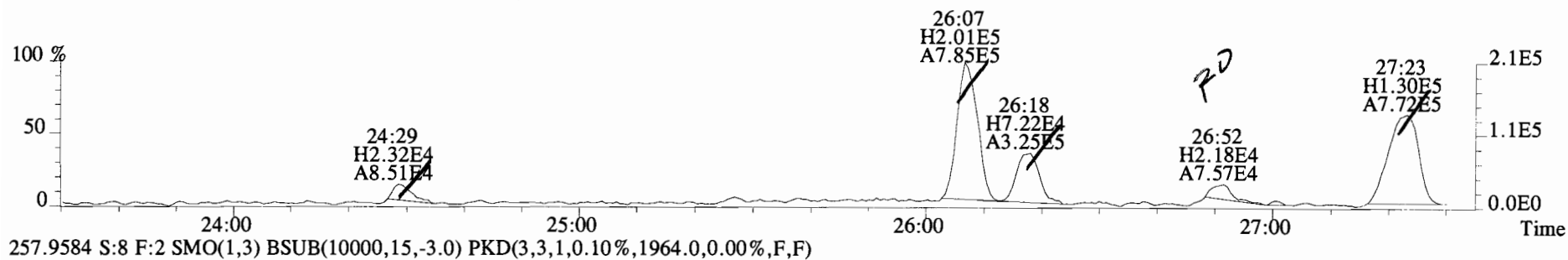
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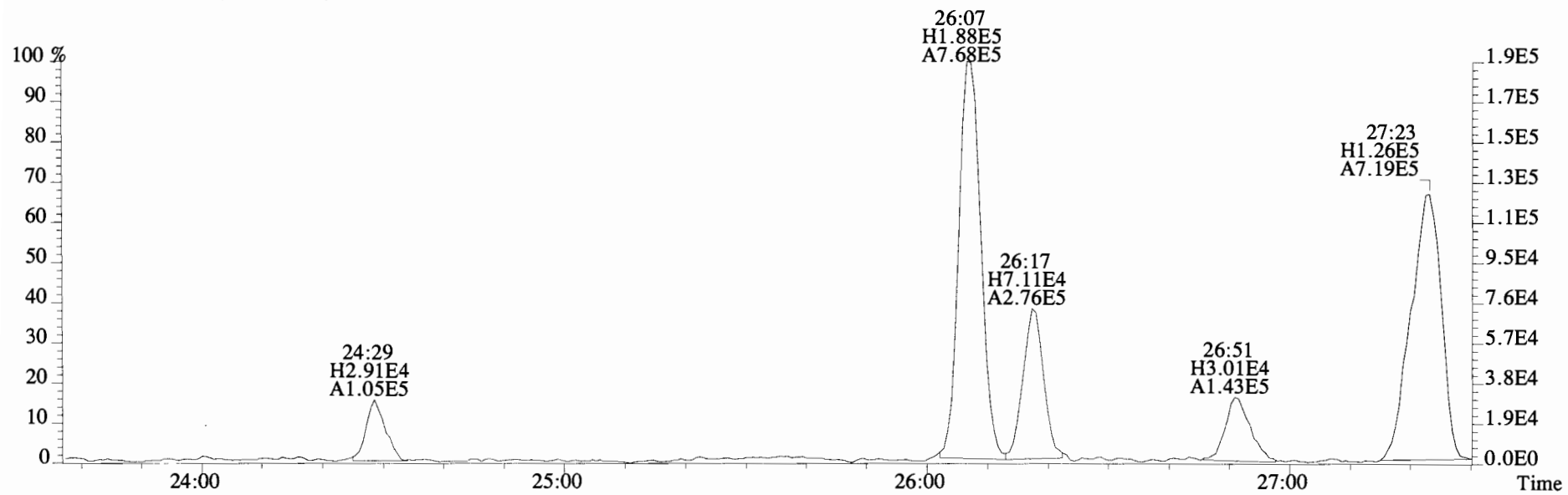
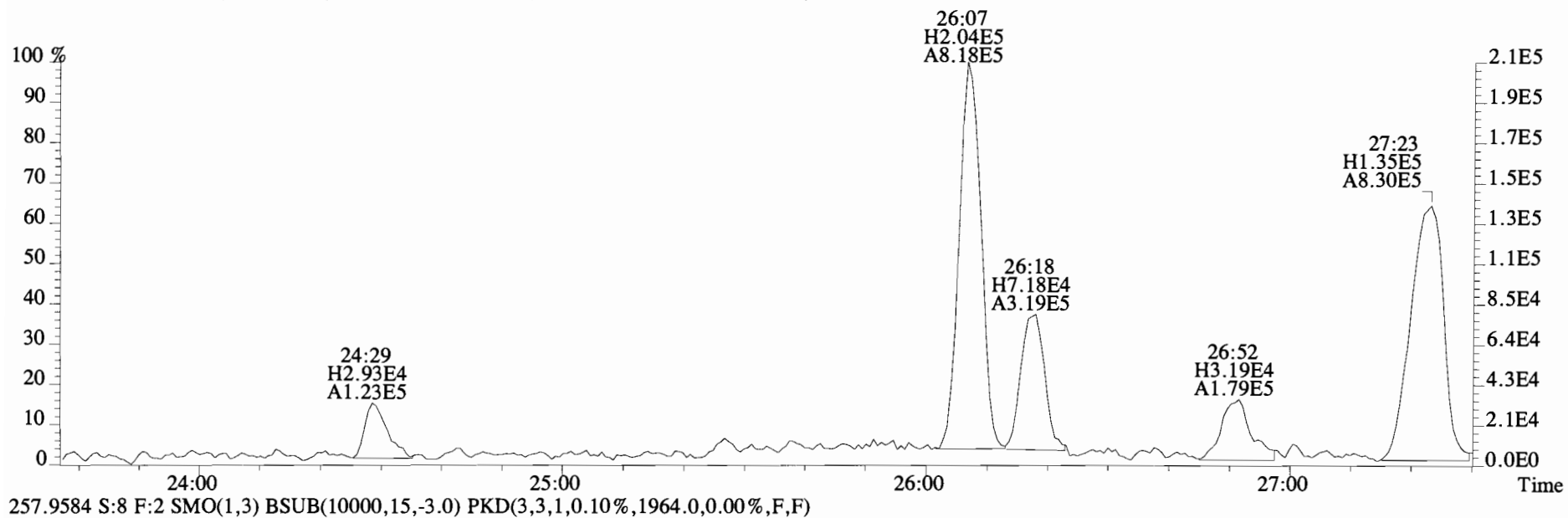
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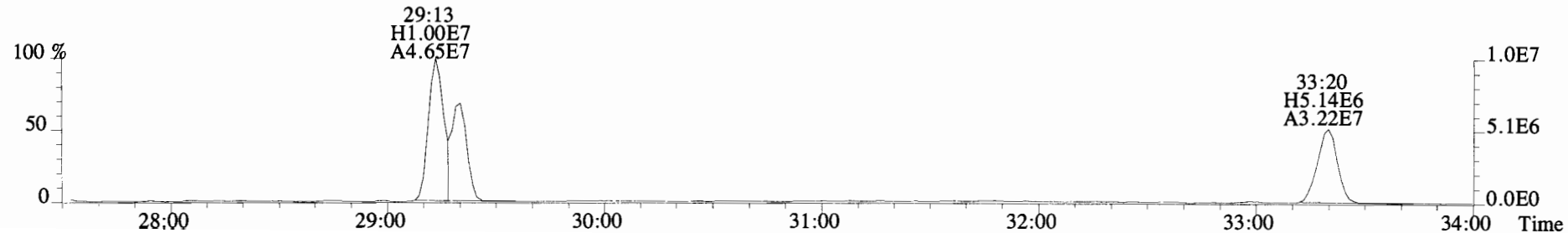
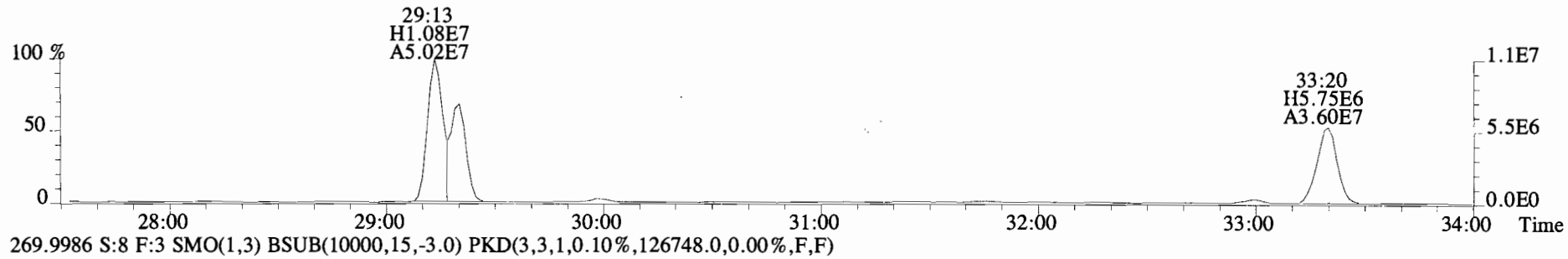
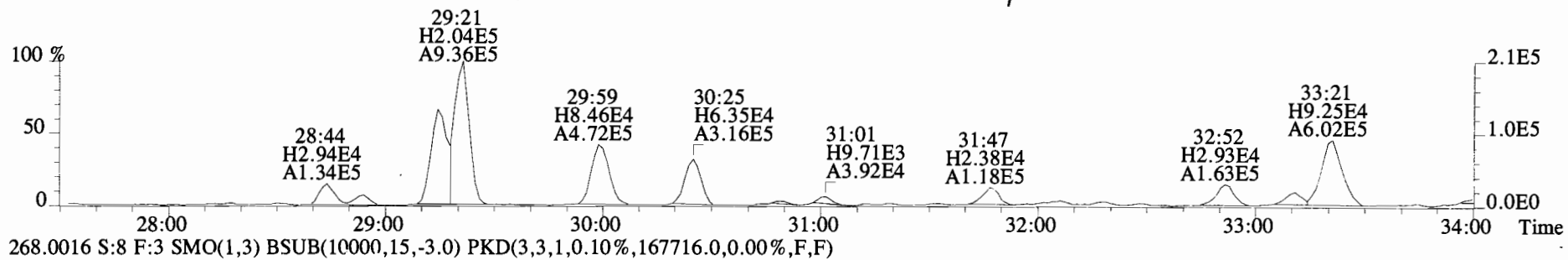
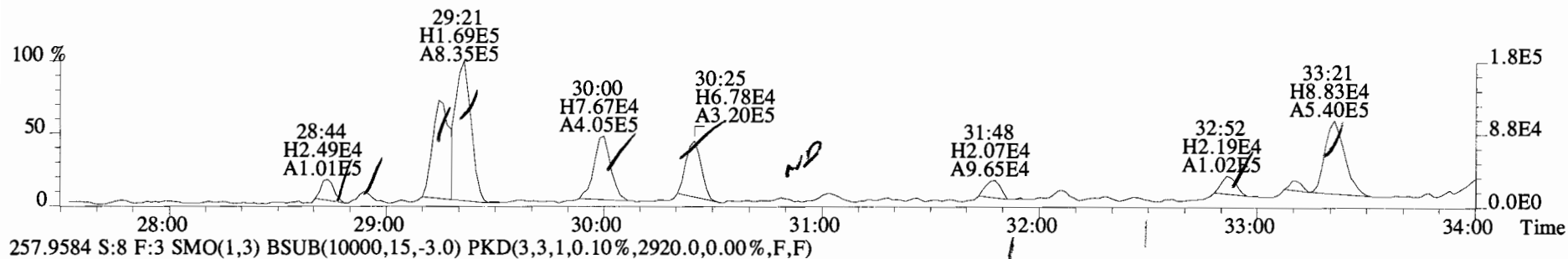
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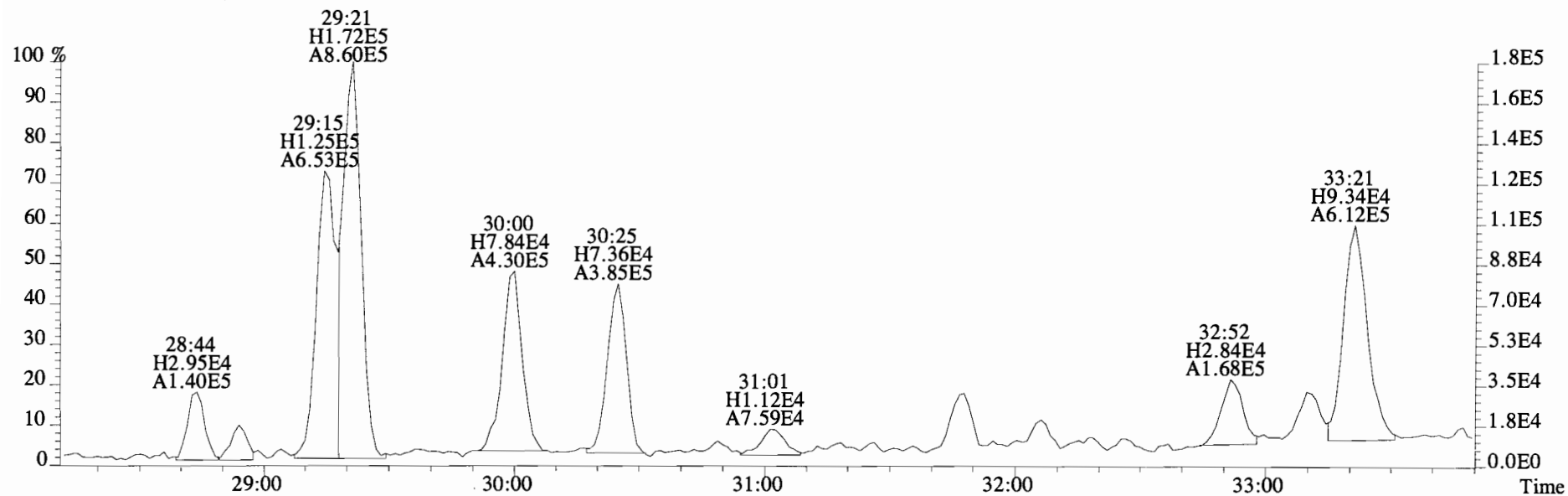
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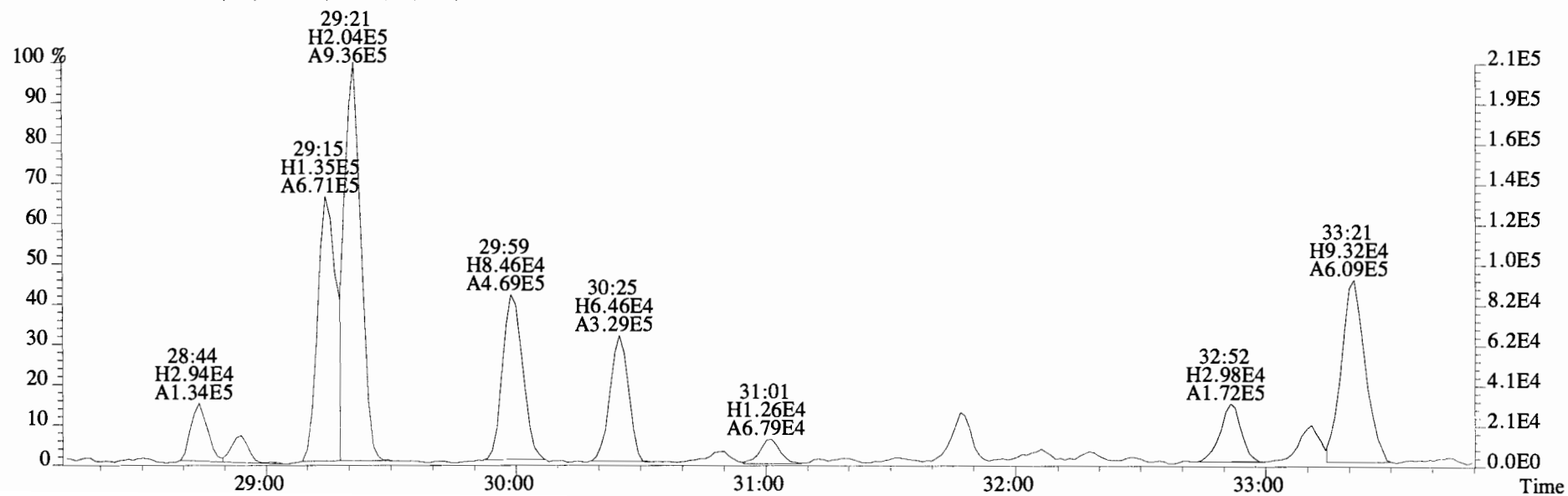
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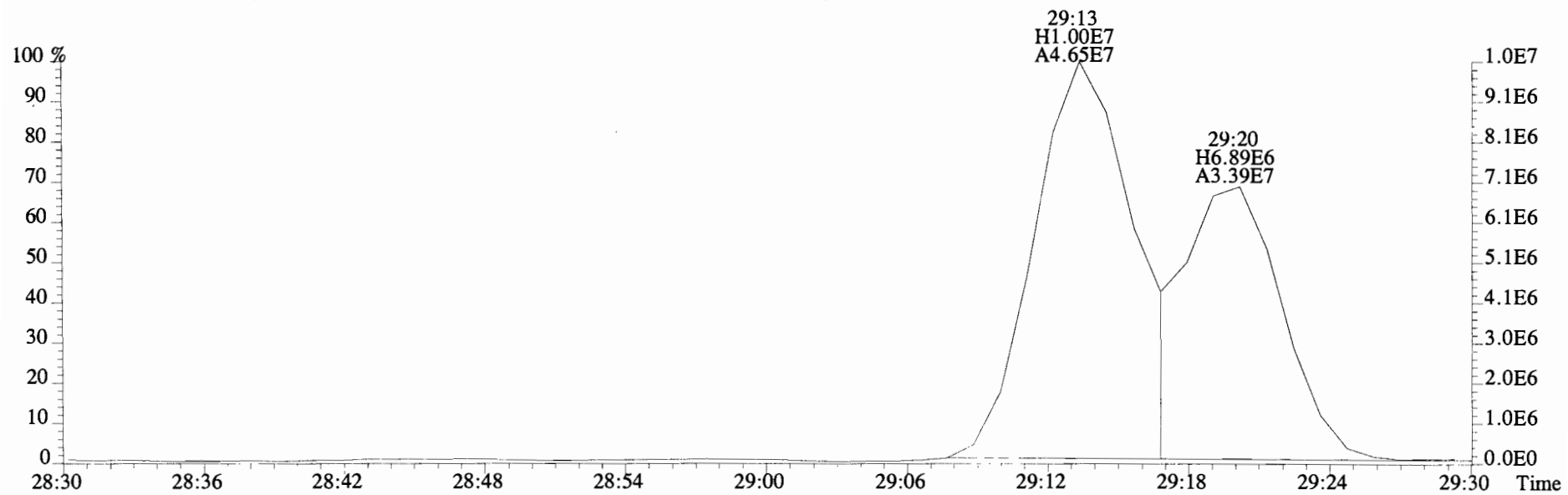
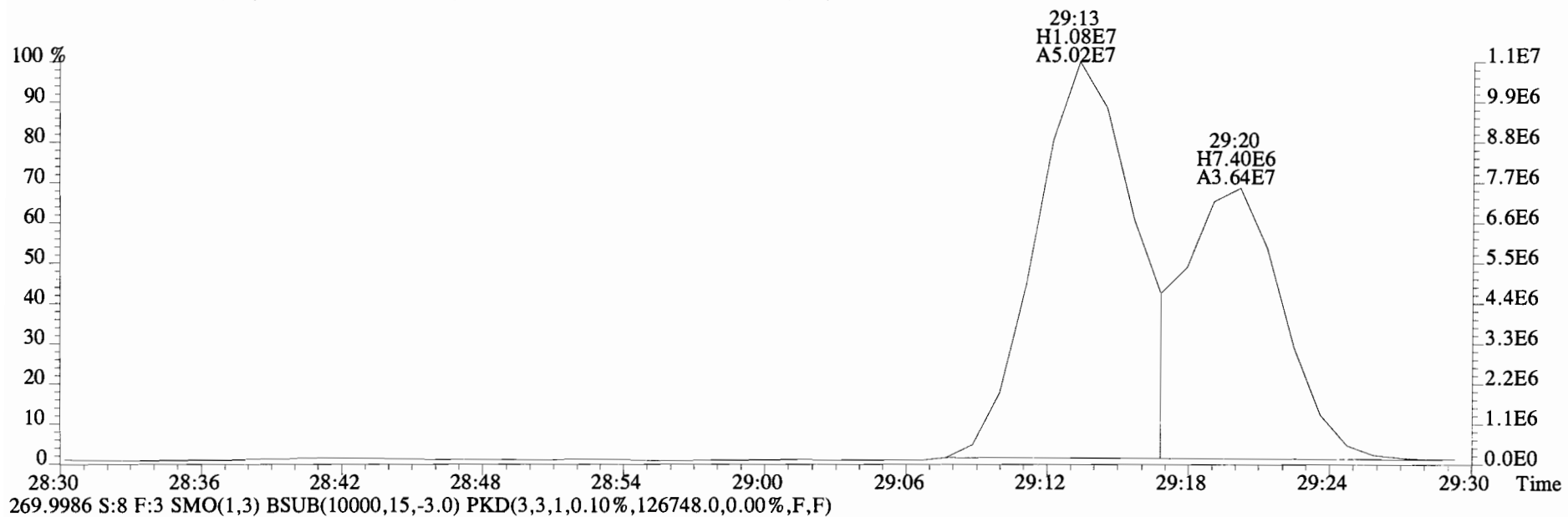
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255.9613 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



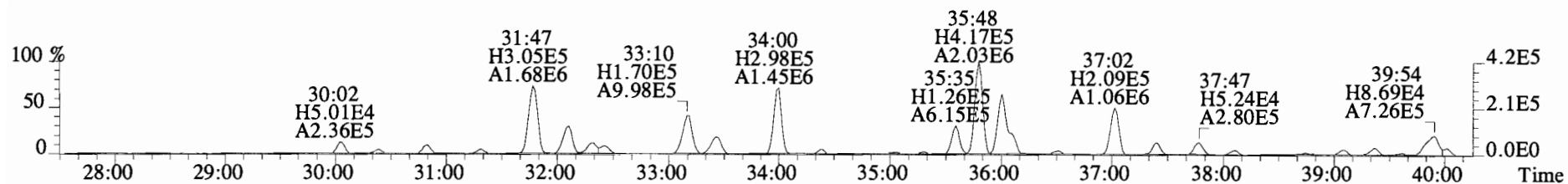
257.9584 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



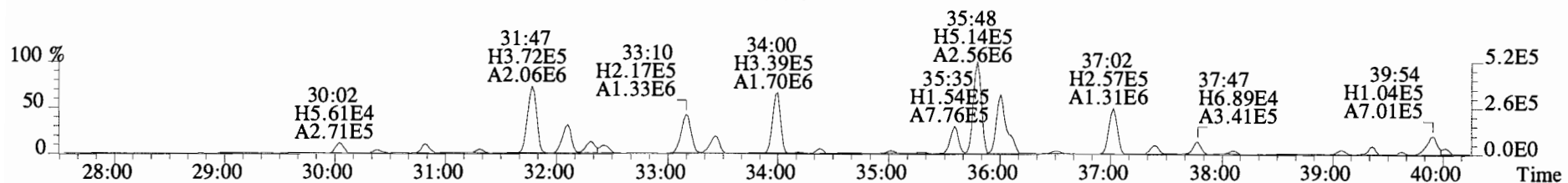
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
268.0016 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,167716.0,0.00%,F,F)



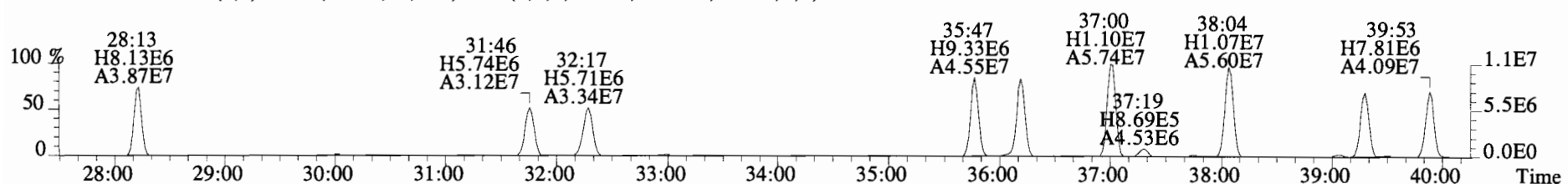
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2808.0,0.00%,F,F)



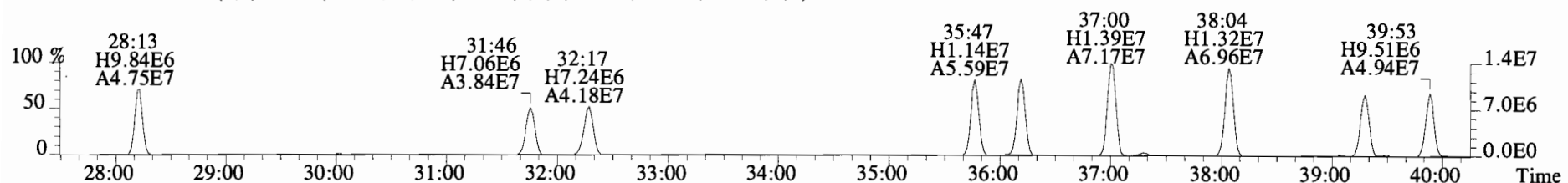
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2736.0,0.00%,F,F)



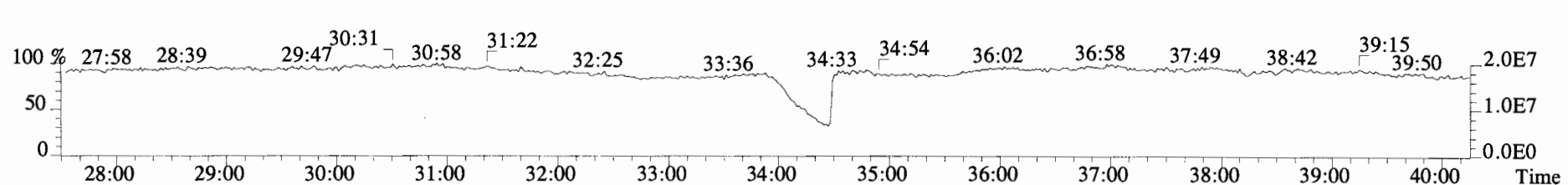
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12684.0,0.00%,F,F)



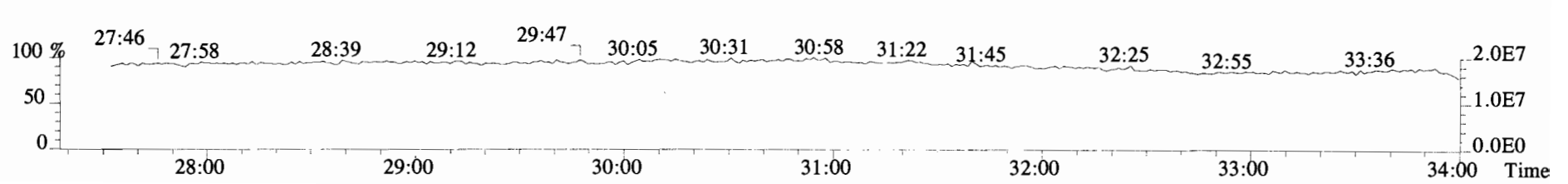
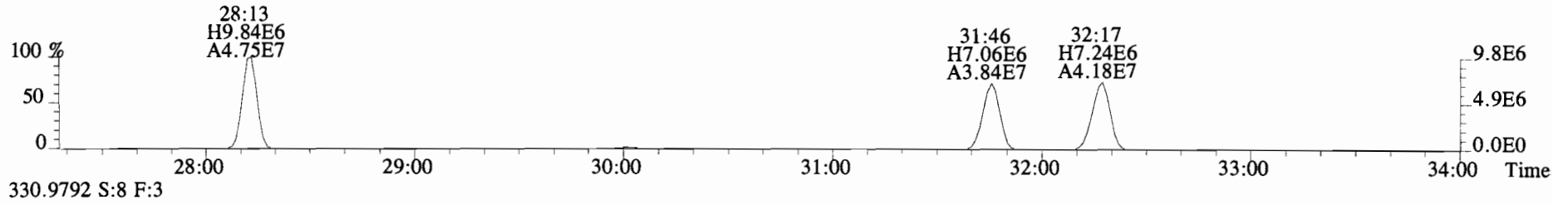
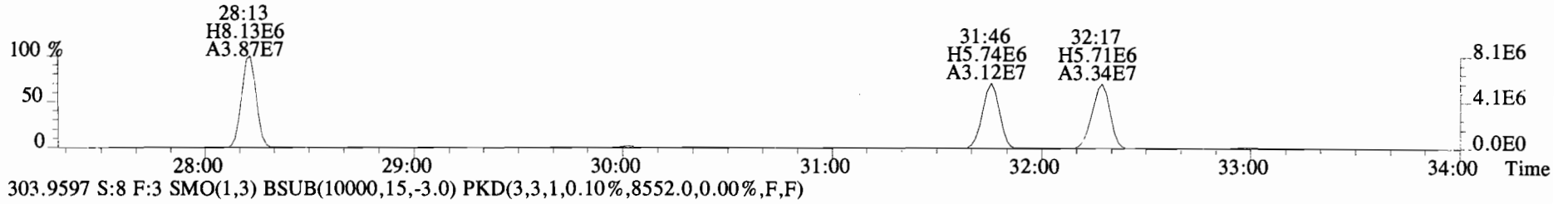
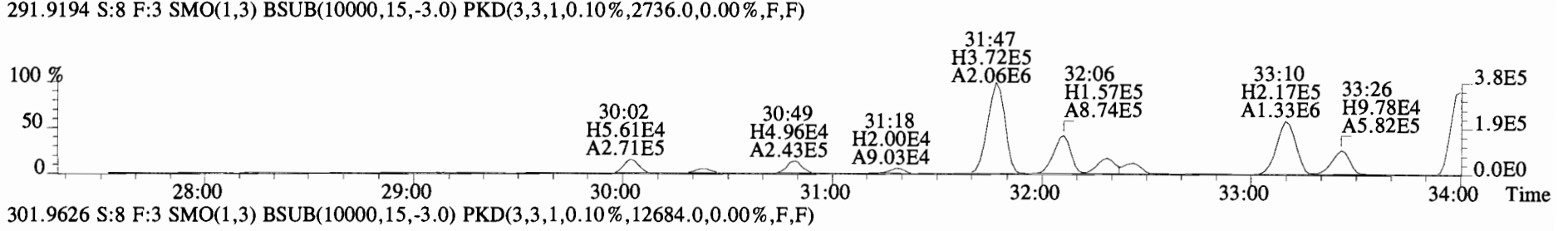
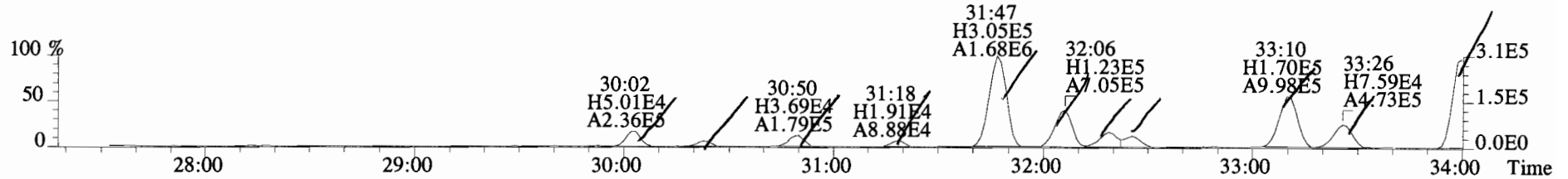
303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8552.0,0.00%,F,F)



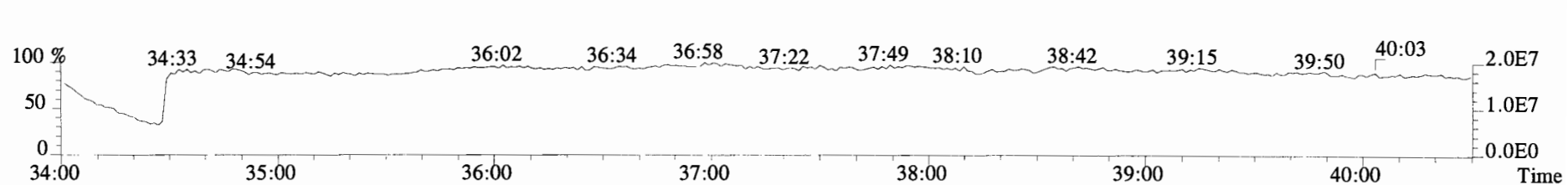
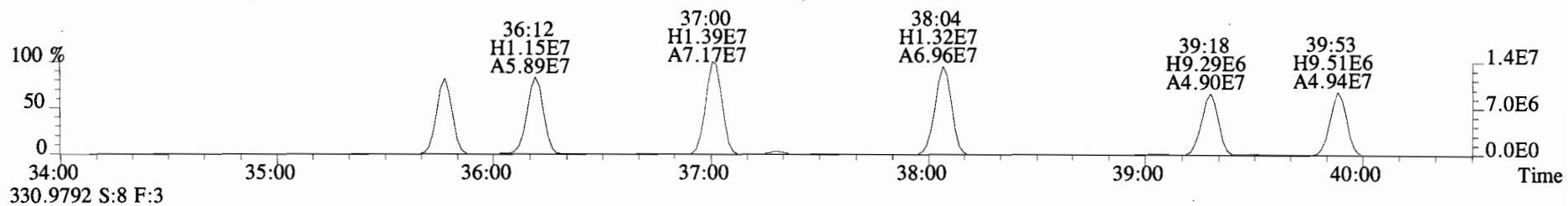
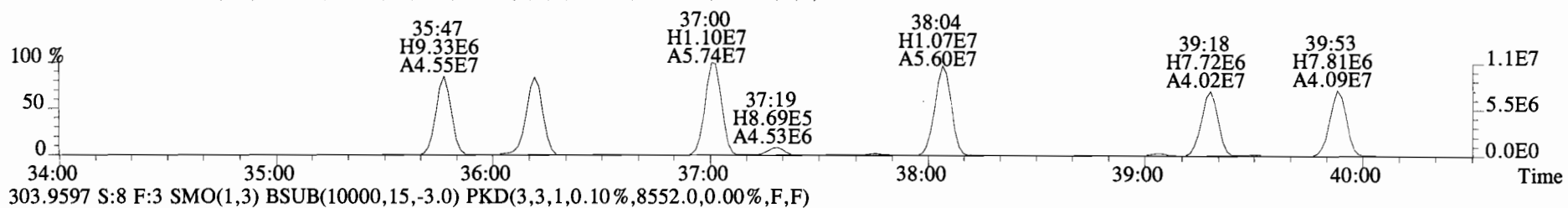
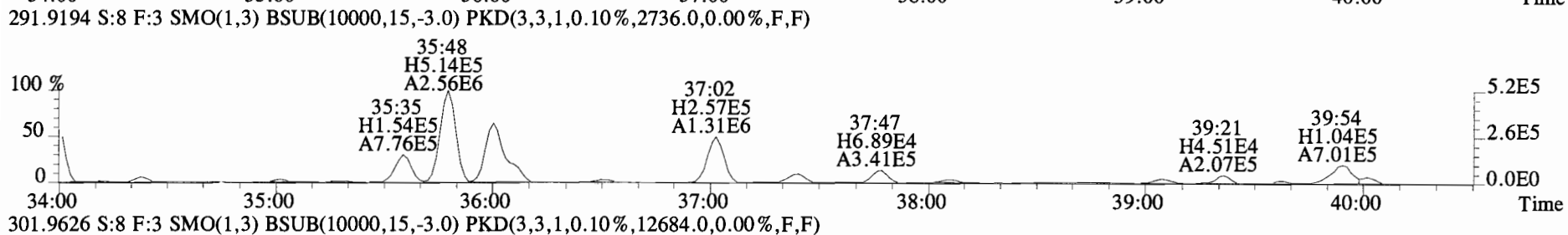
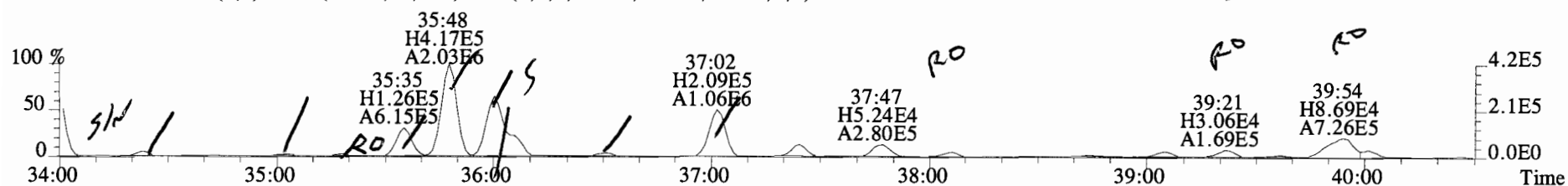
330.9792 S:8 F:3



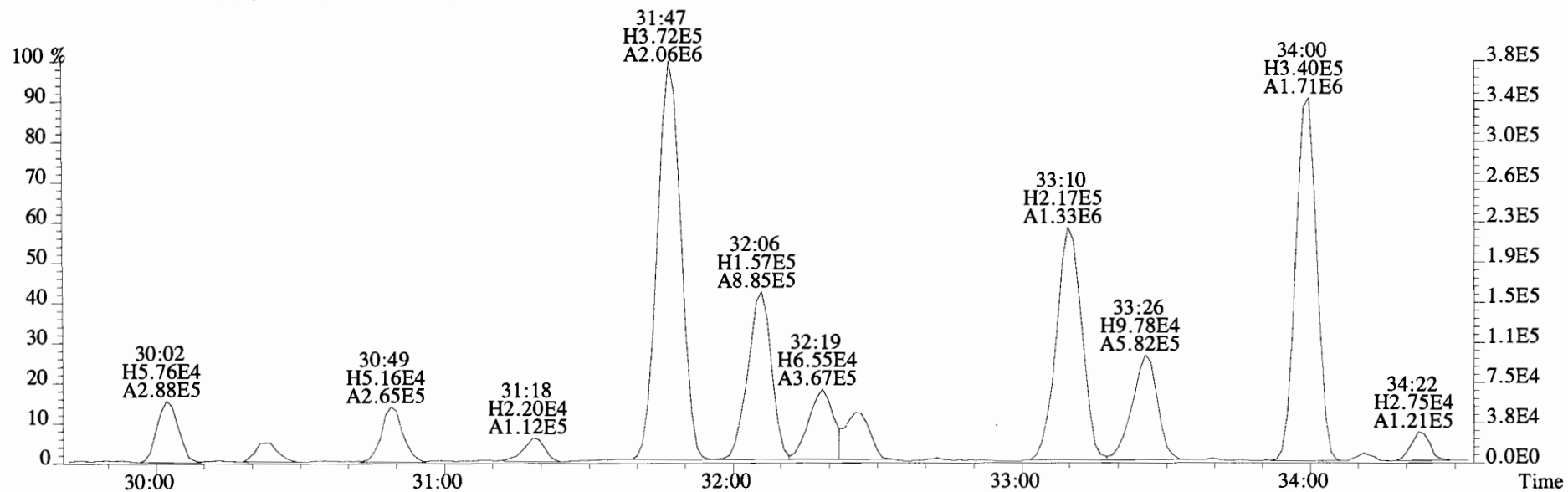
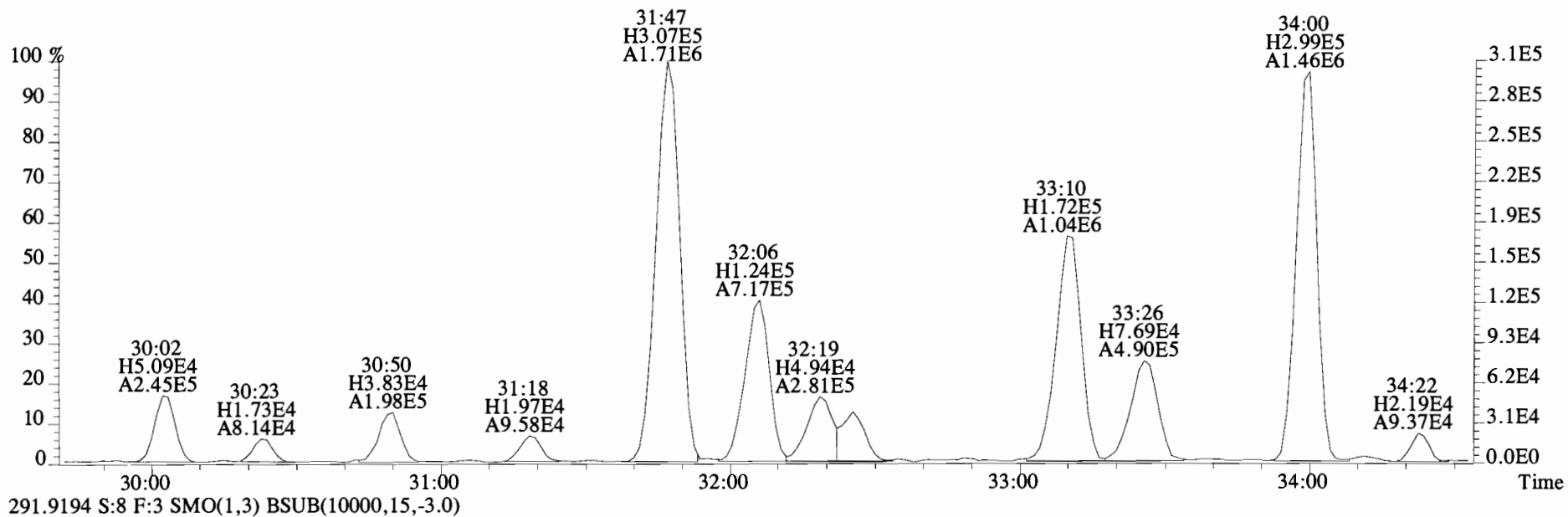
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2808.0,0.00%,F,F)



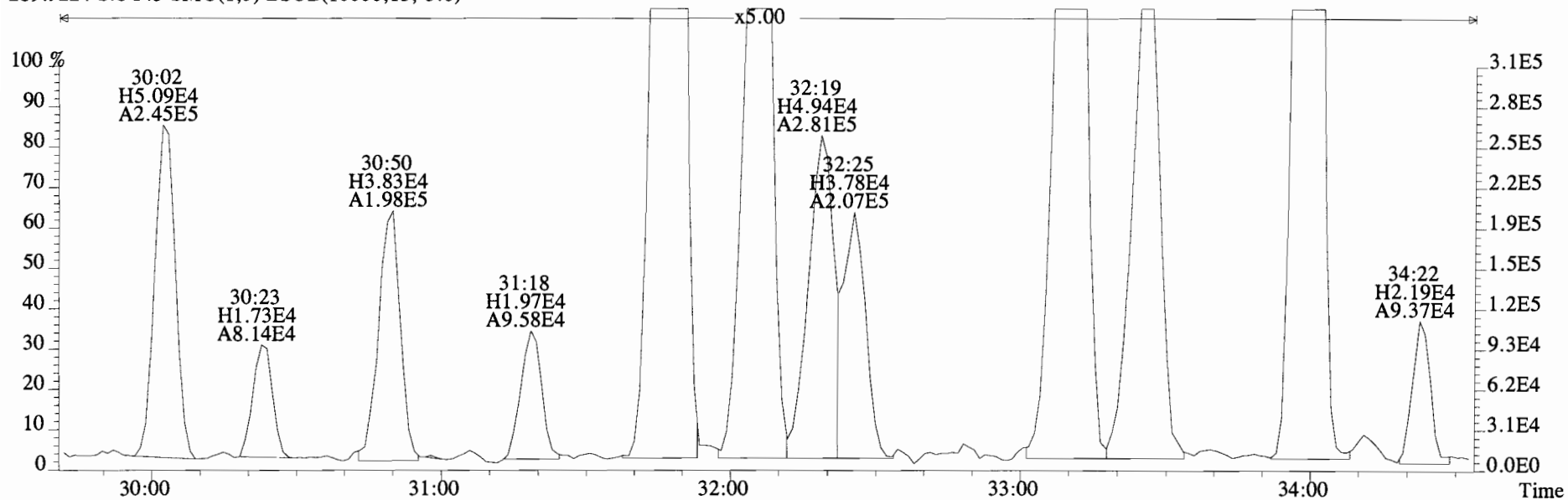
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2808.0,0.00%,F,F)



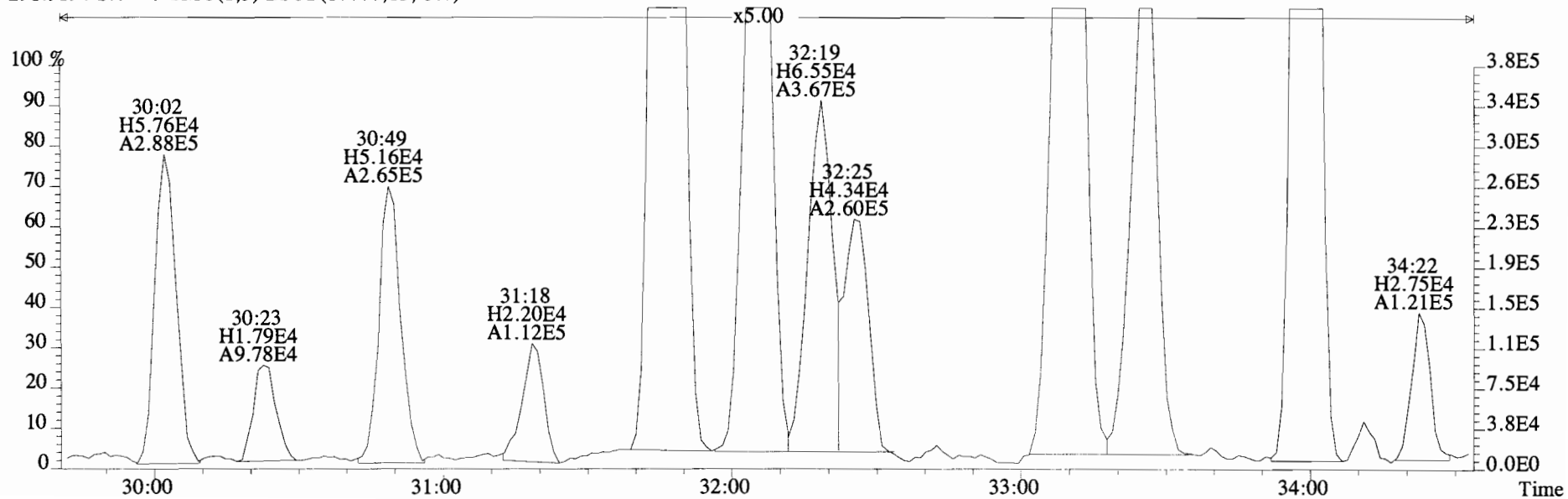
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
 289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



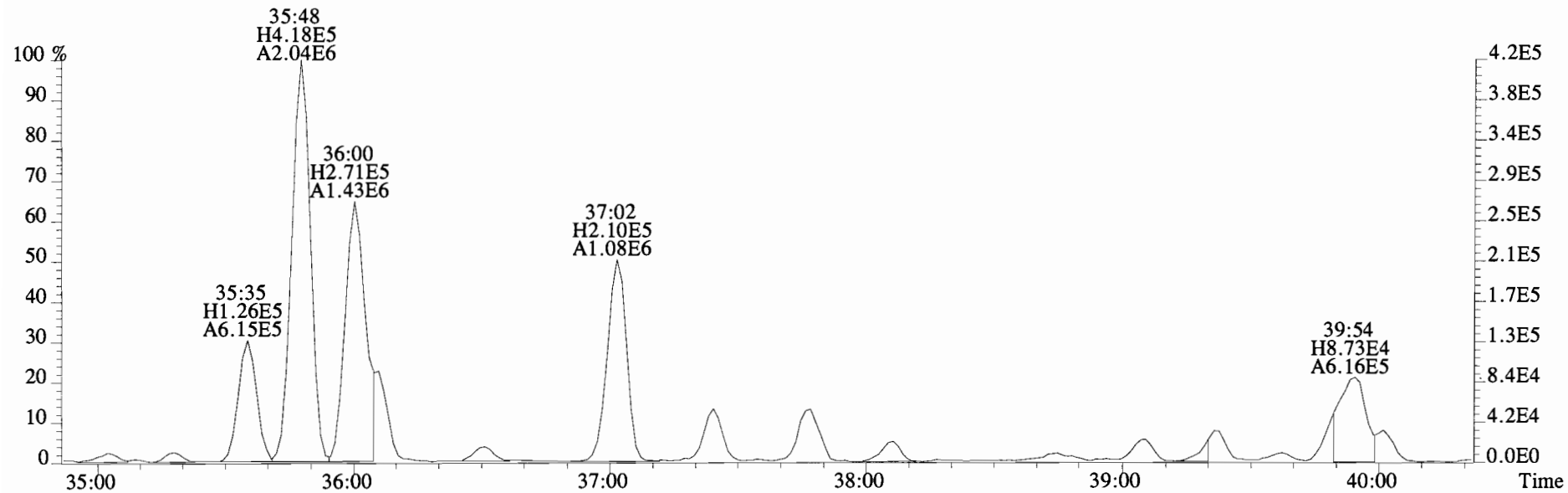
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
 289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



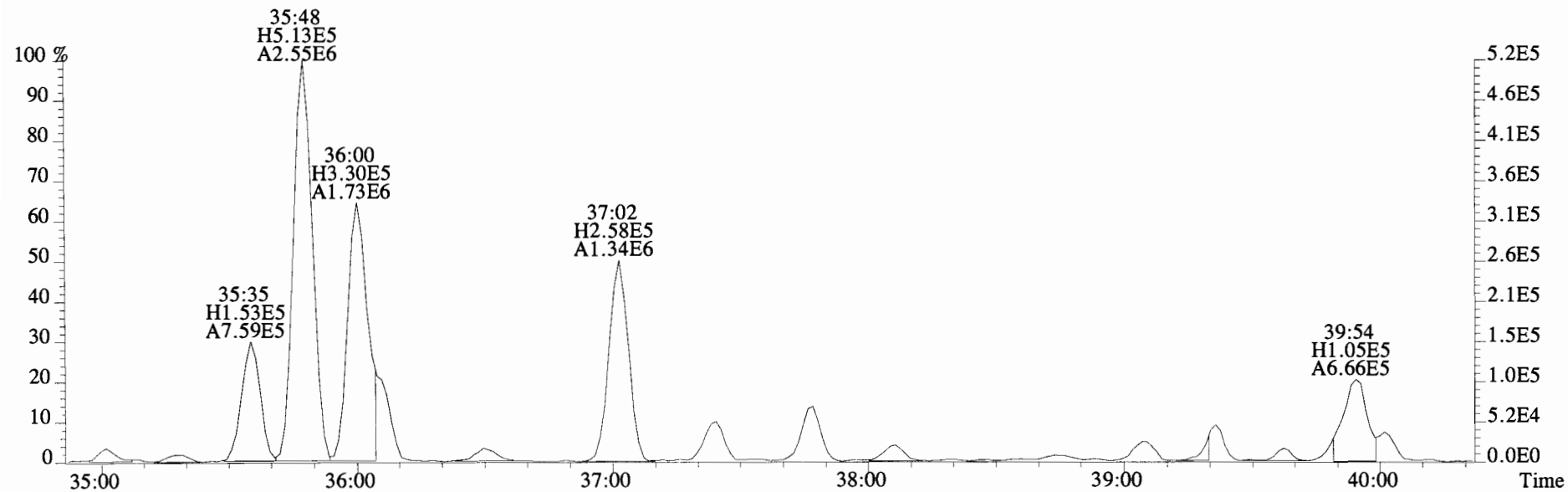
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



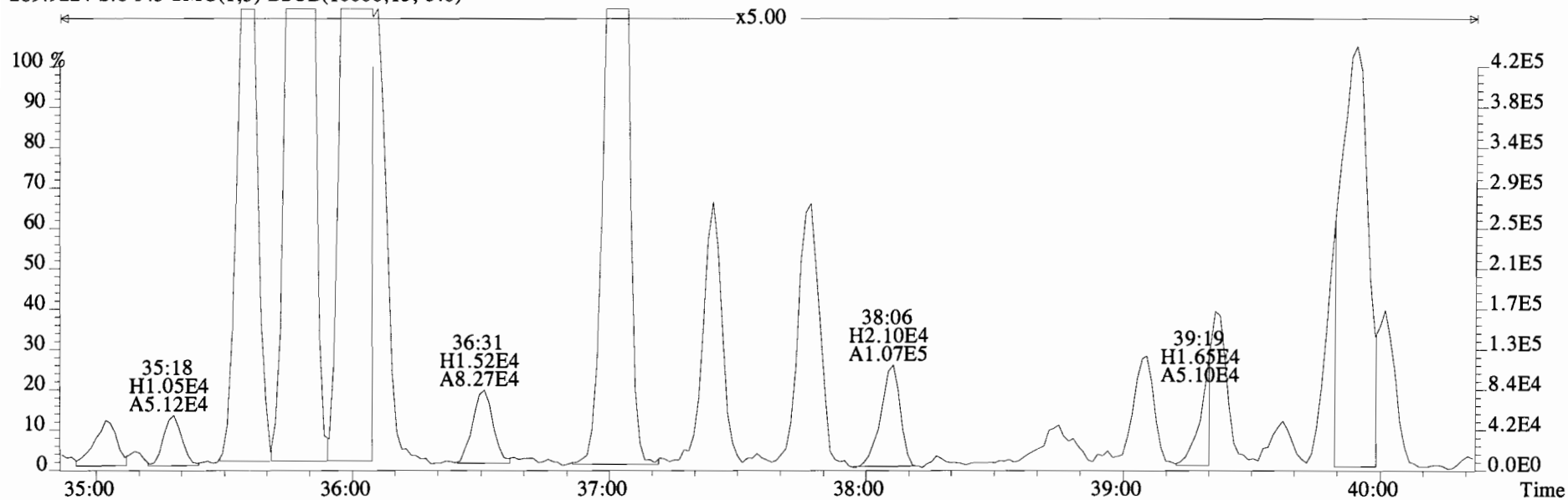
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



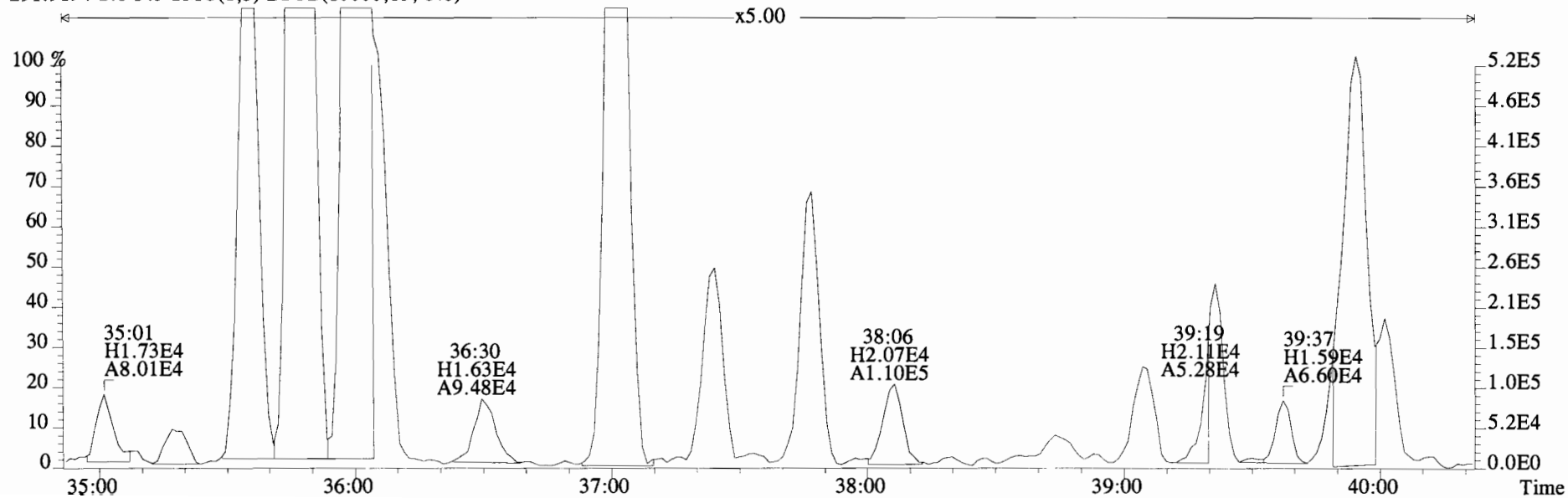
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



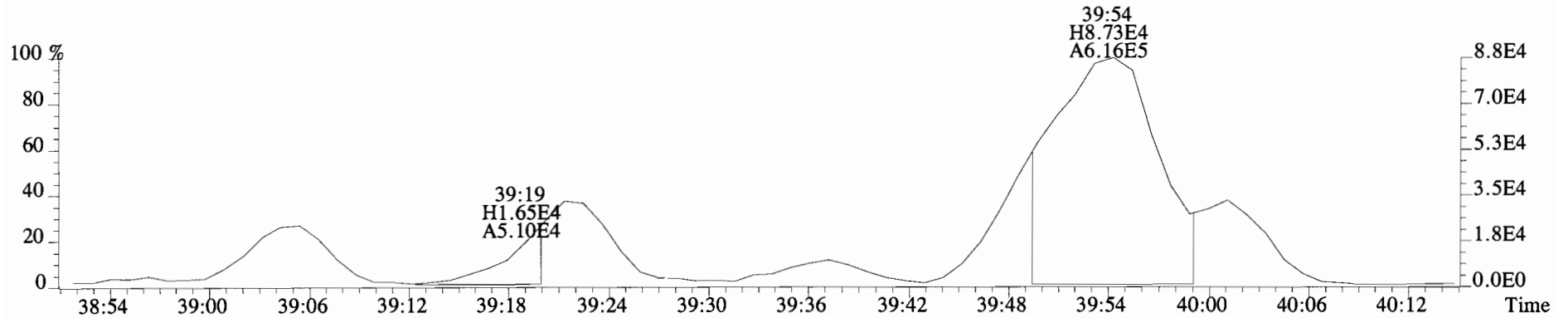
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



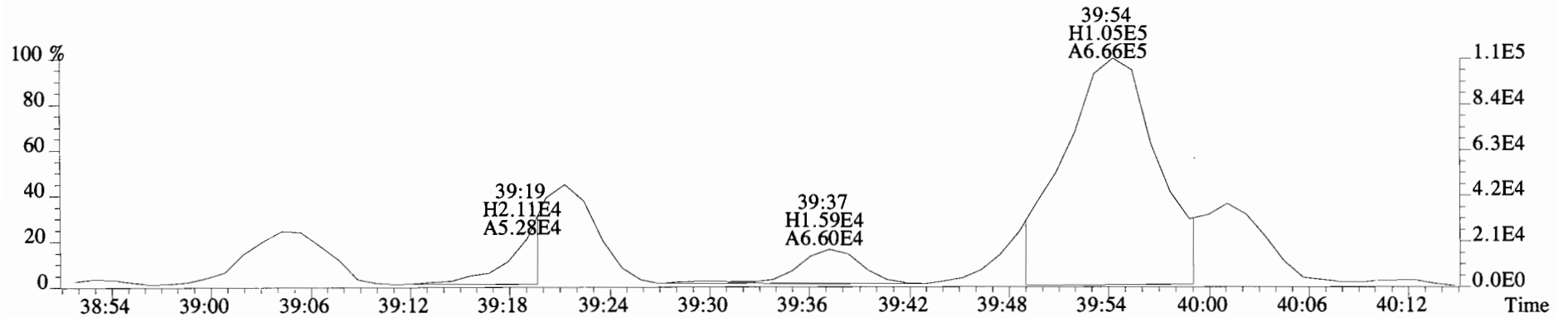
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



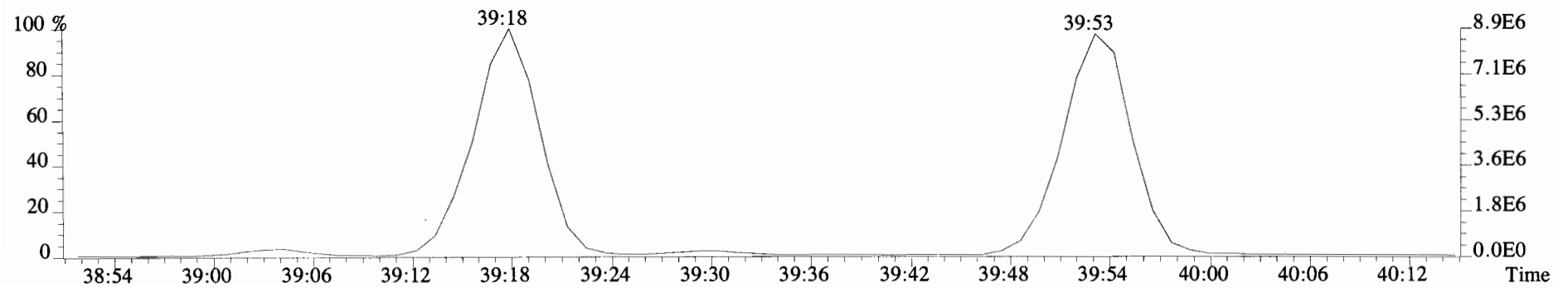
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



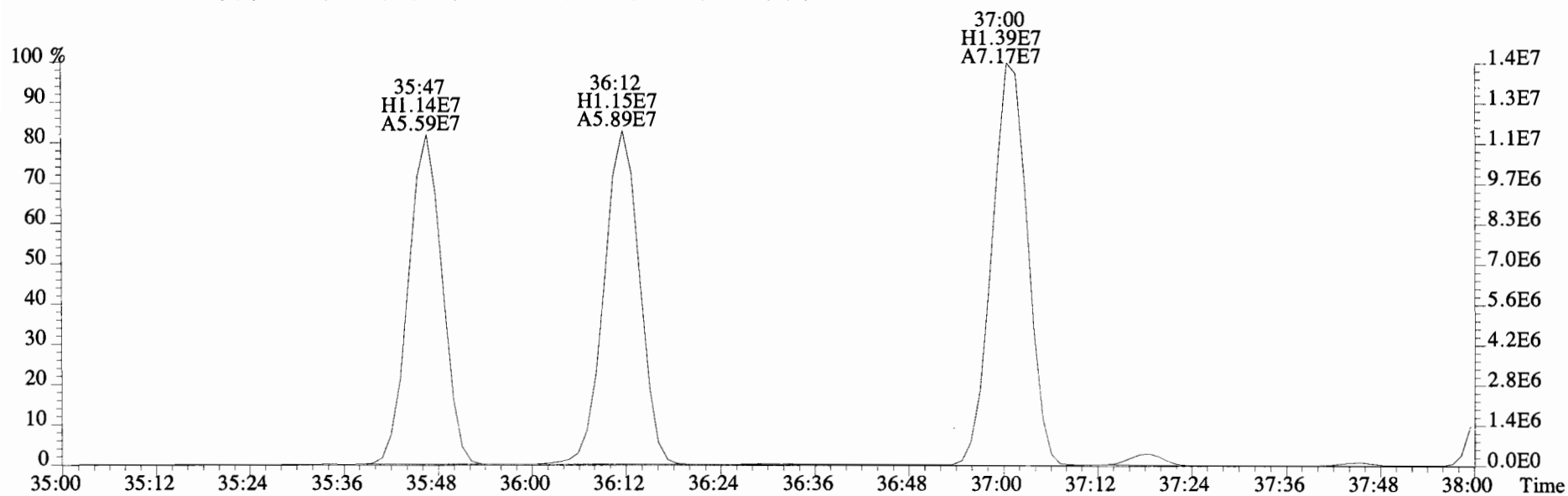
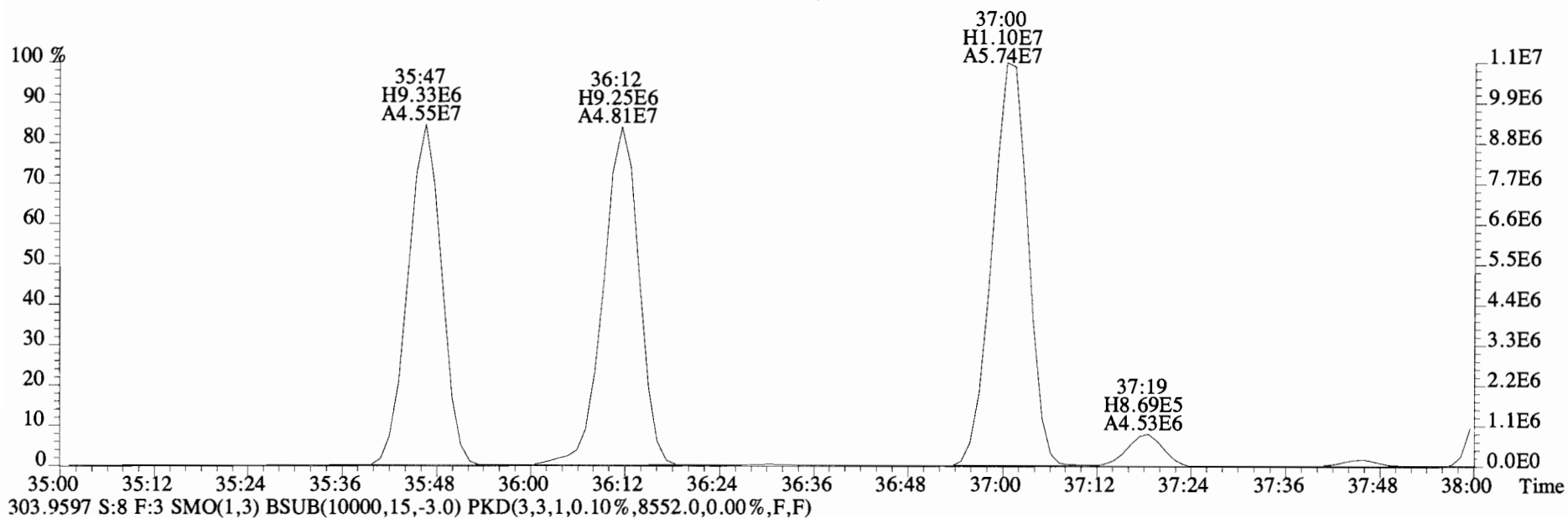
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



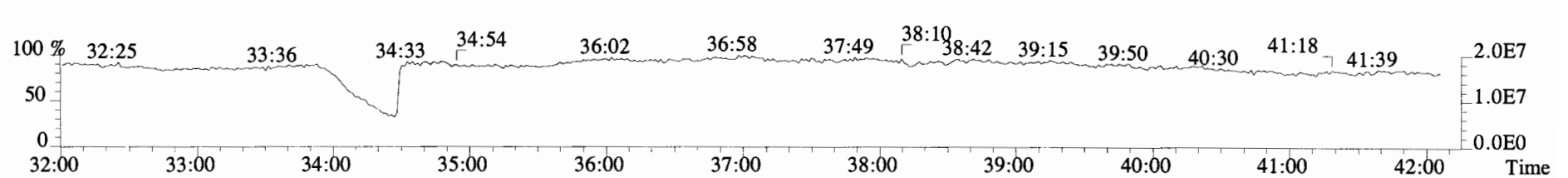
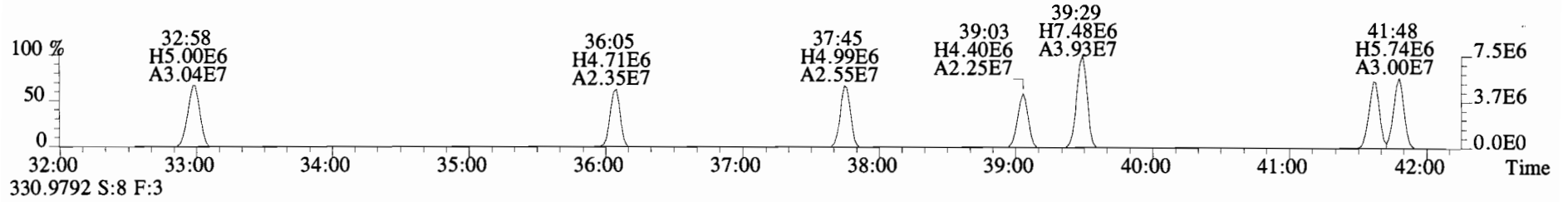
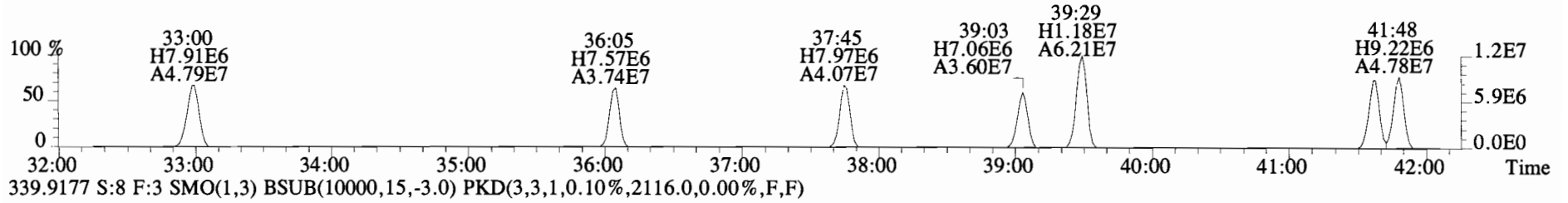
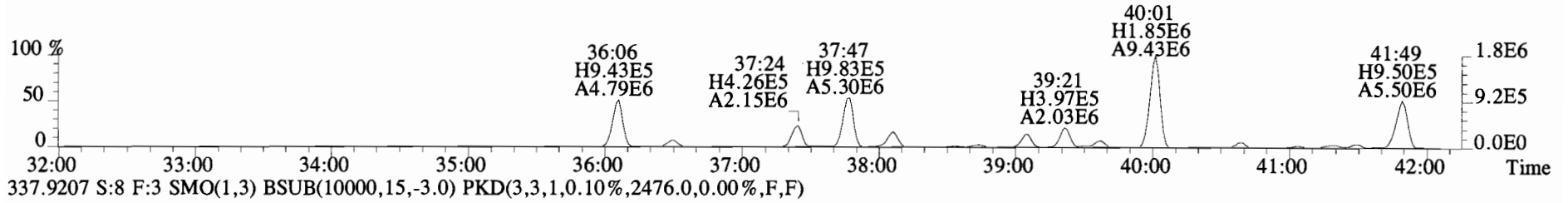
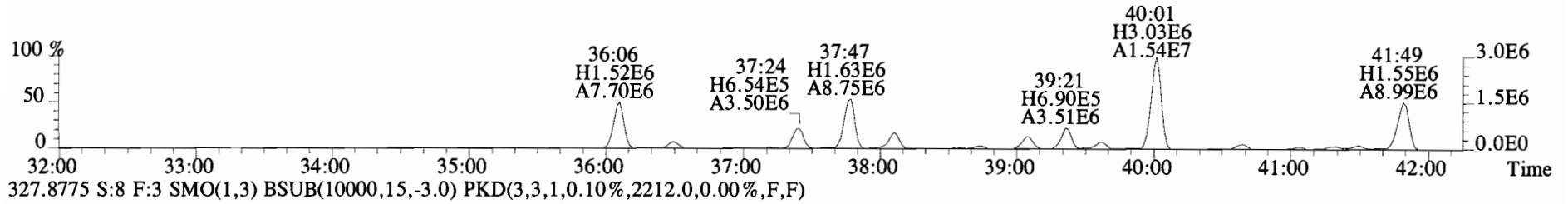
301.9626 S:8 F:3



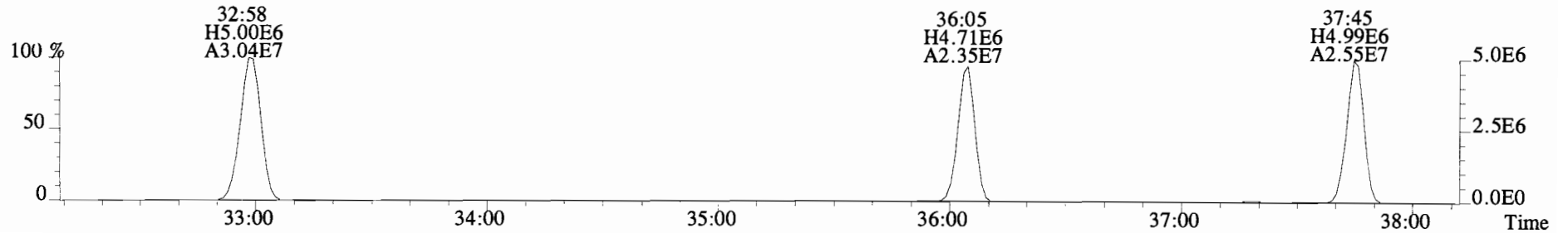
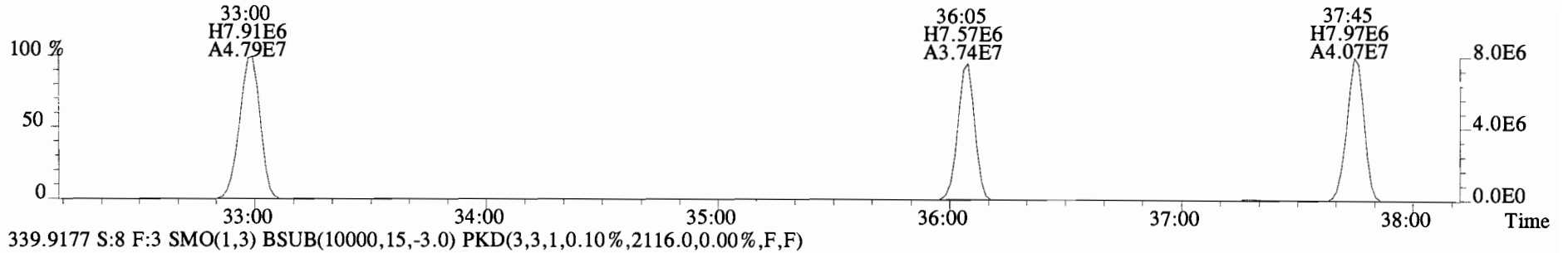
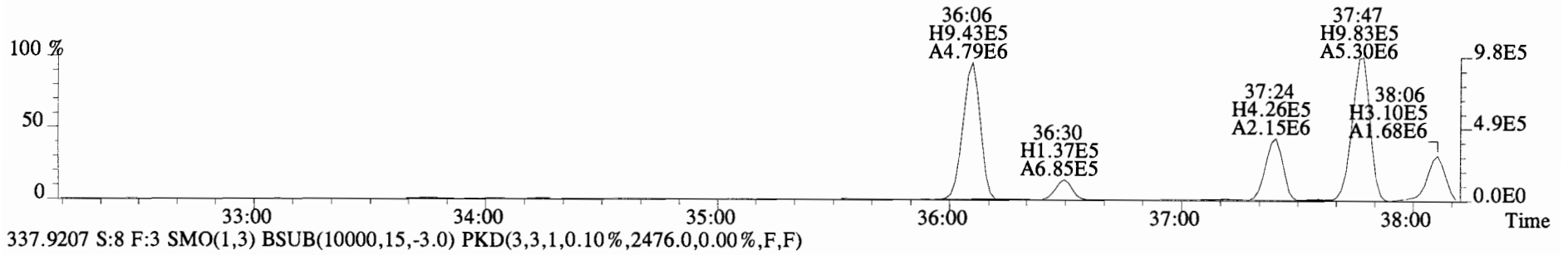
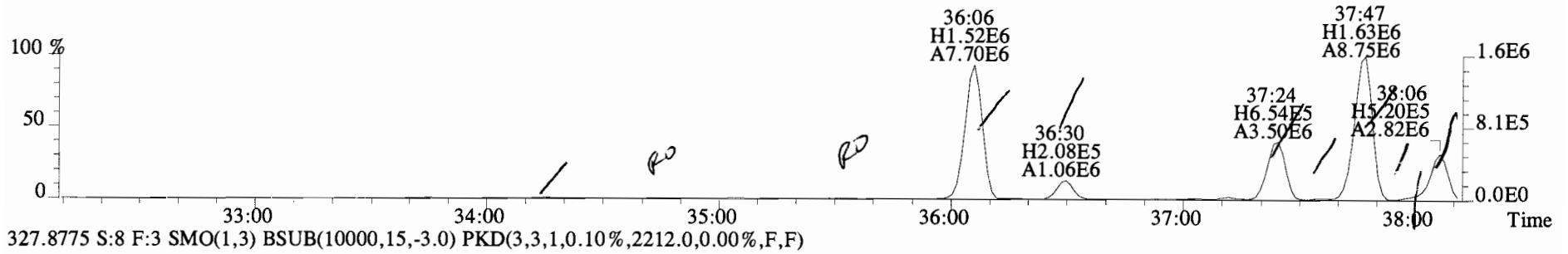
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text: Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12684.0,0.00%,F,F)



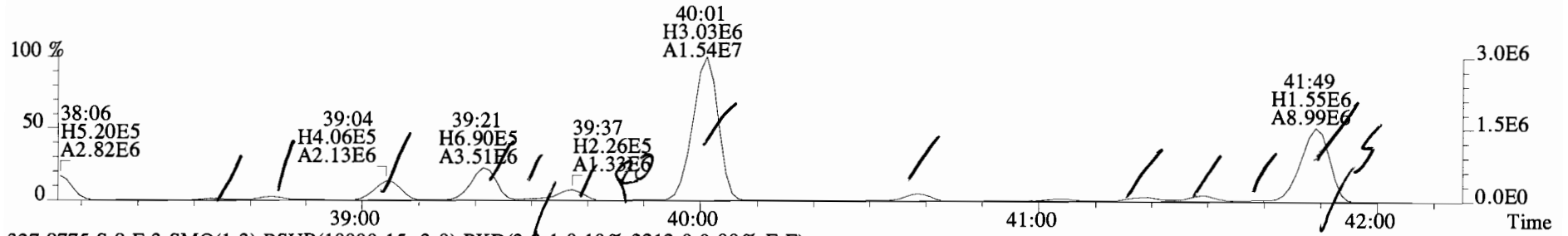
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1884.0,0.00%,F,F)



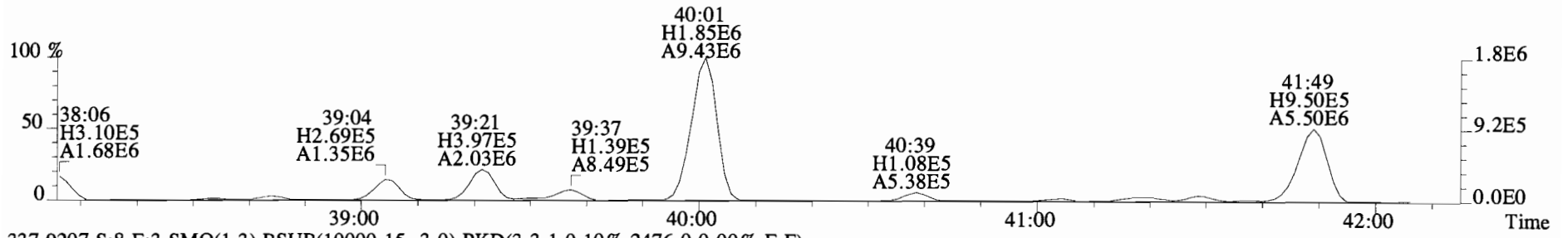
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1884.0,0.00%,F,F)



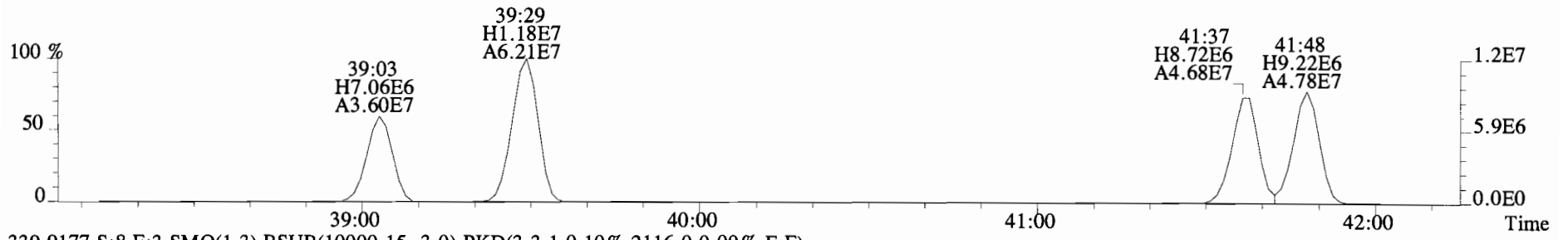
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
 325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1884.0,0.00%,F,F)



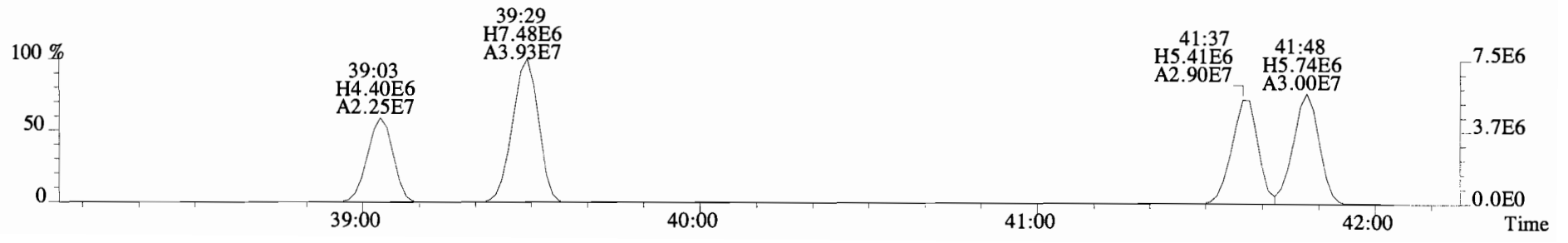
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2212.0,0.00%,F,F)



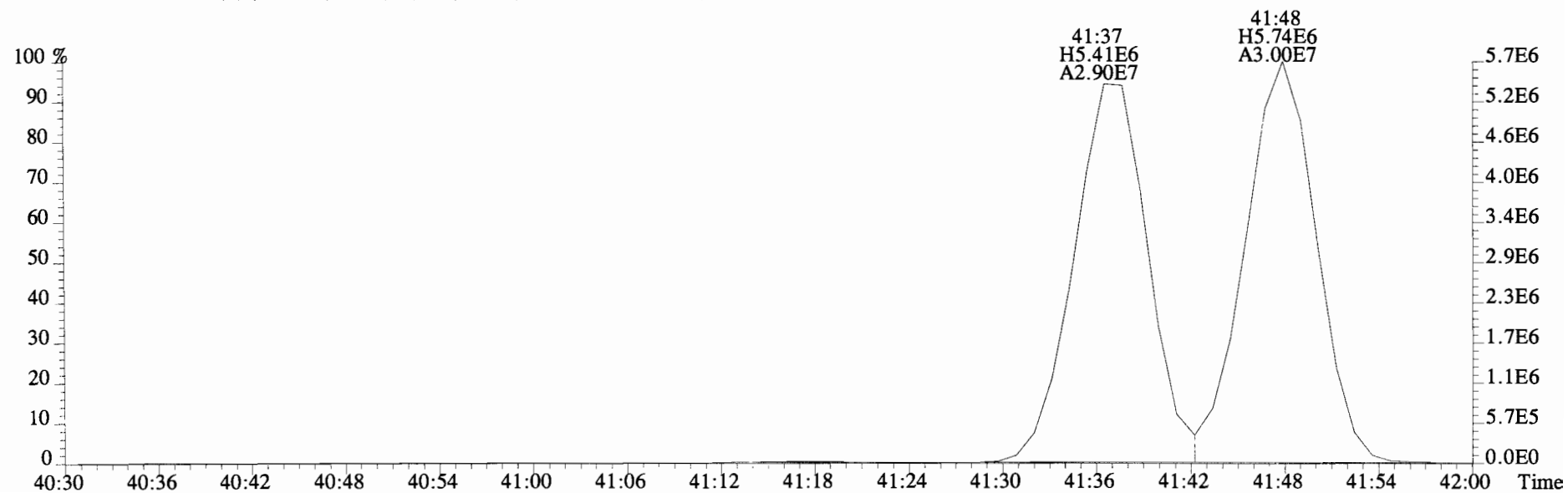
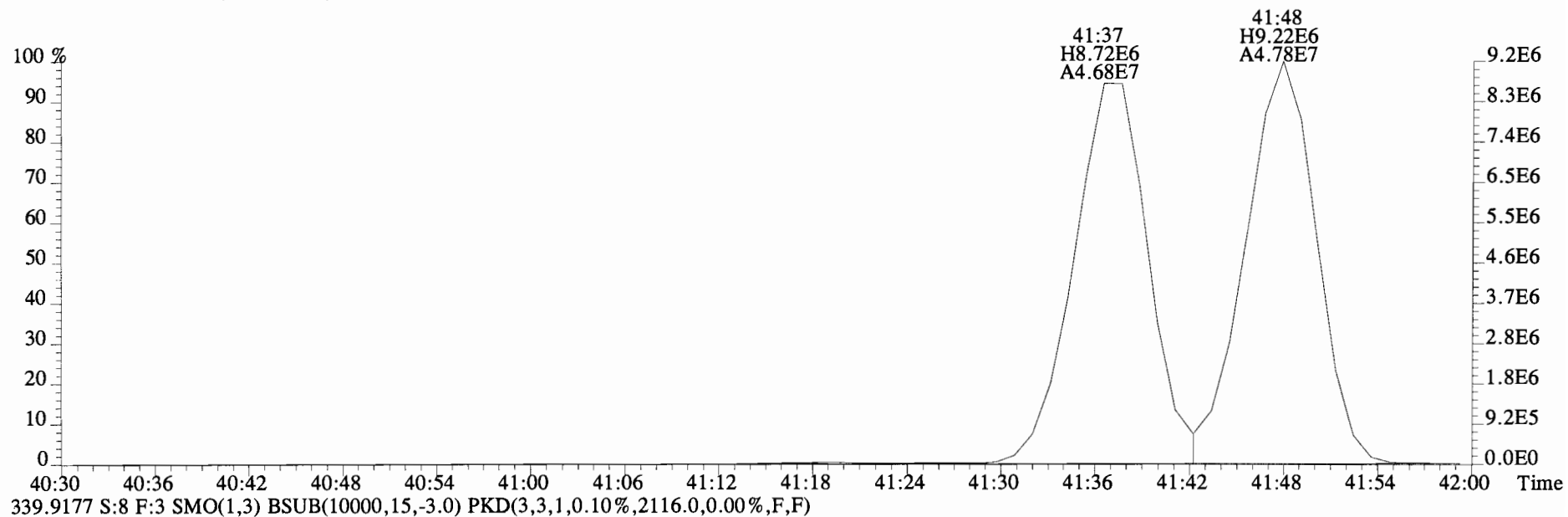
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2476.0,0.00%,F,F)



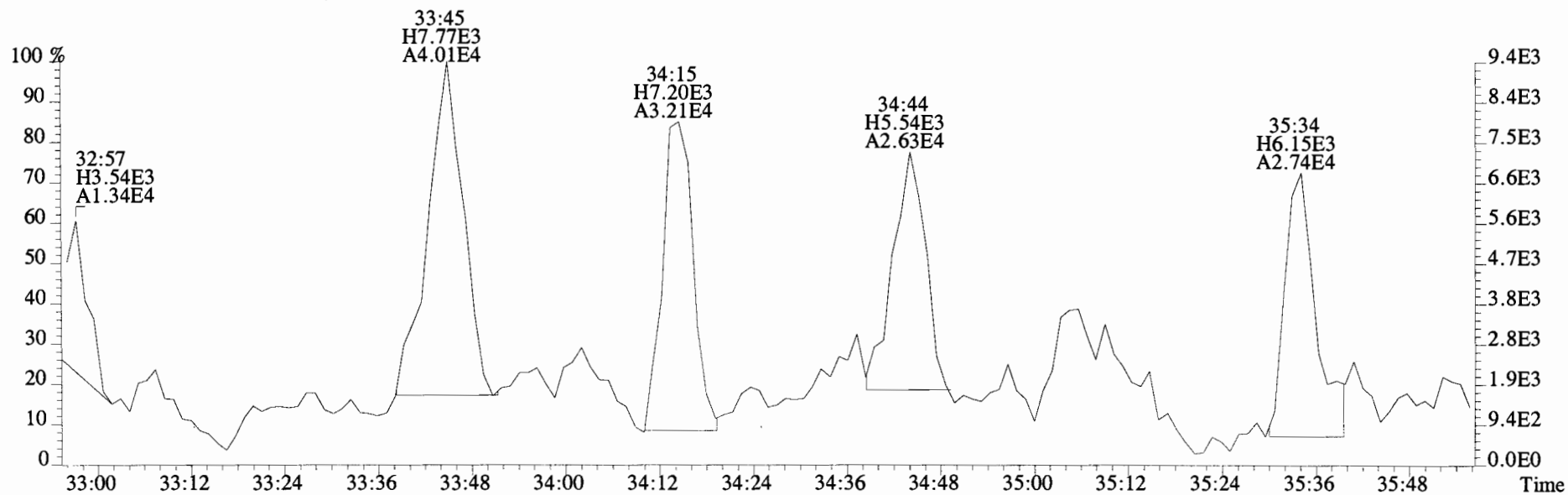
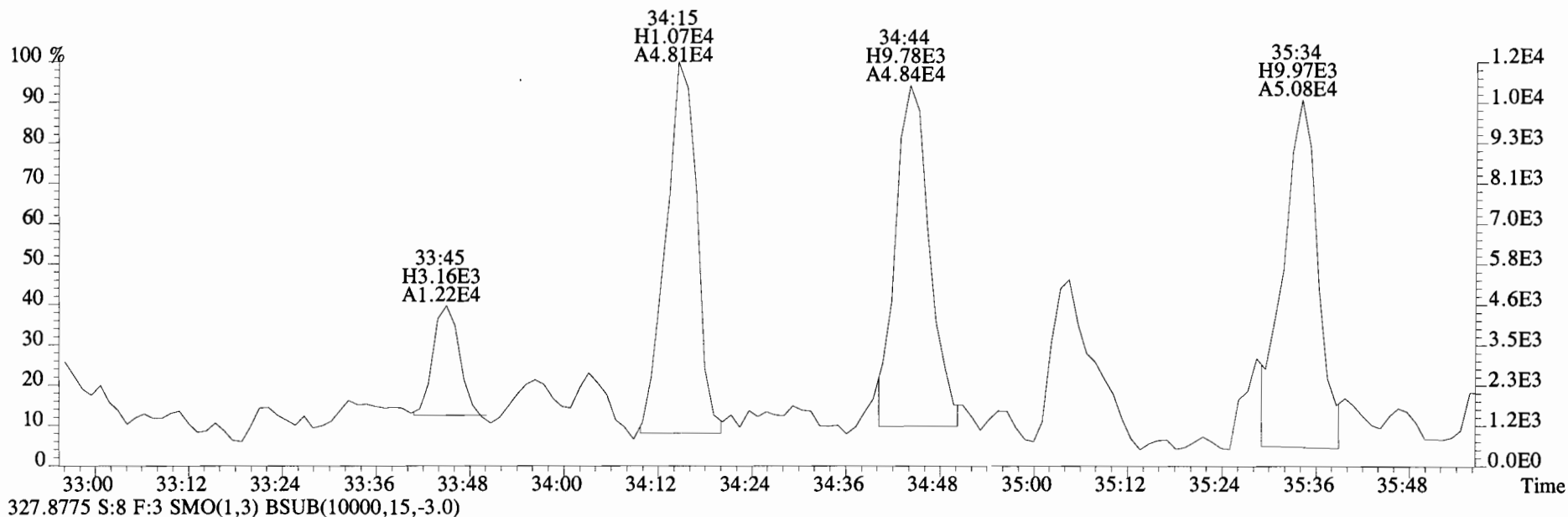
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2116.0,0.00%,F,F)



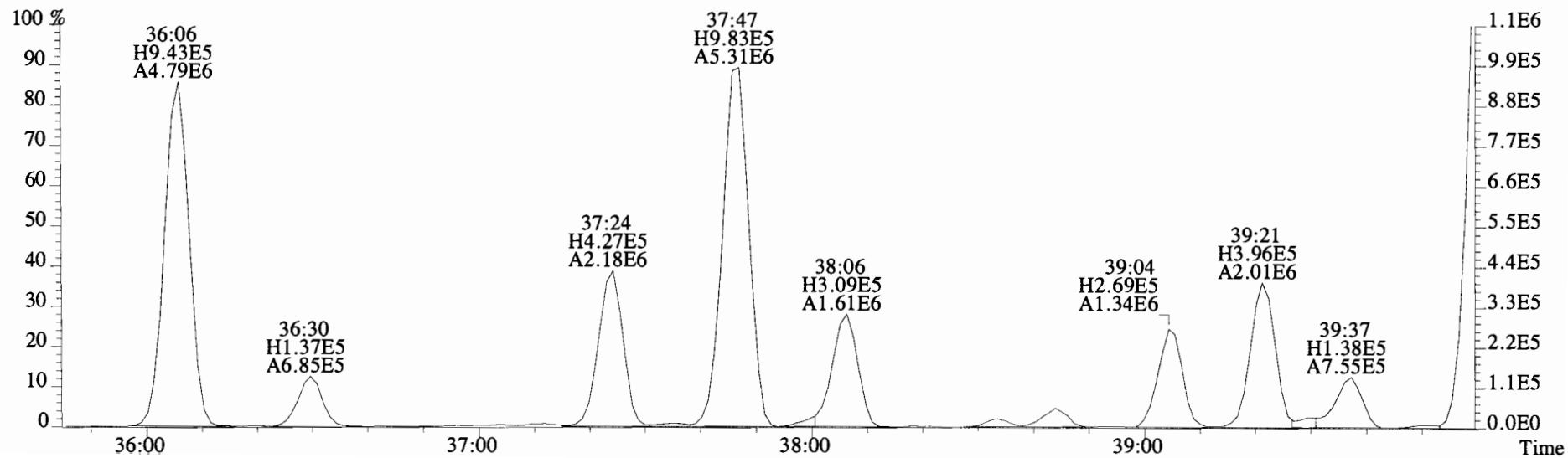
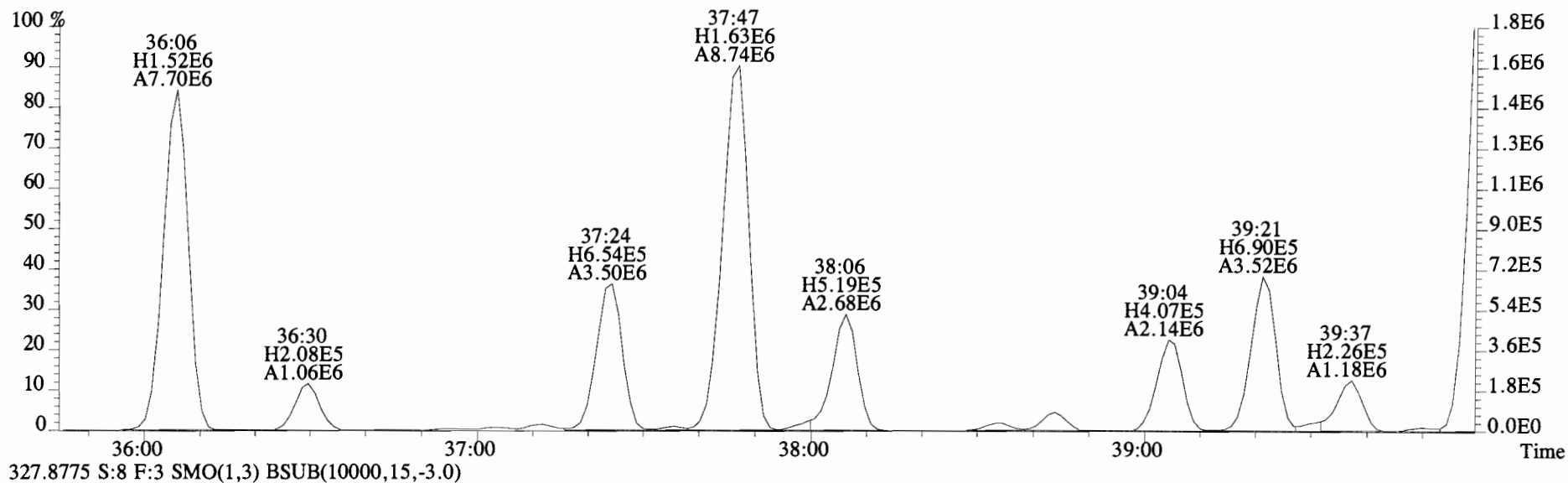
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2476.0,0.00%,F,F)



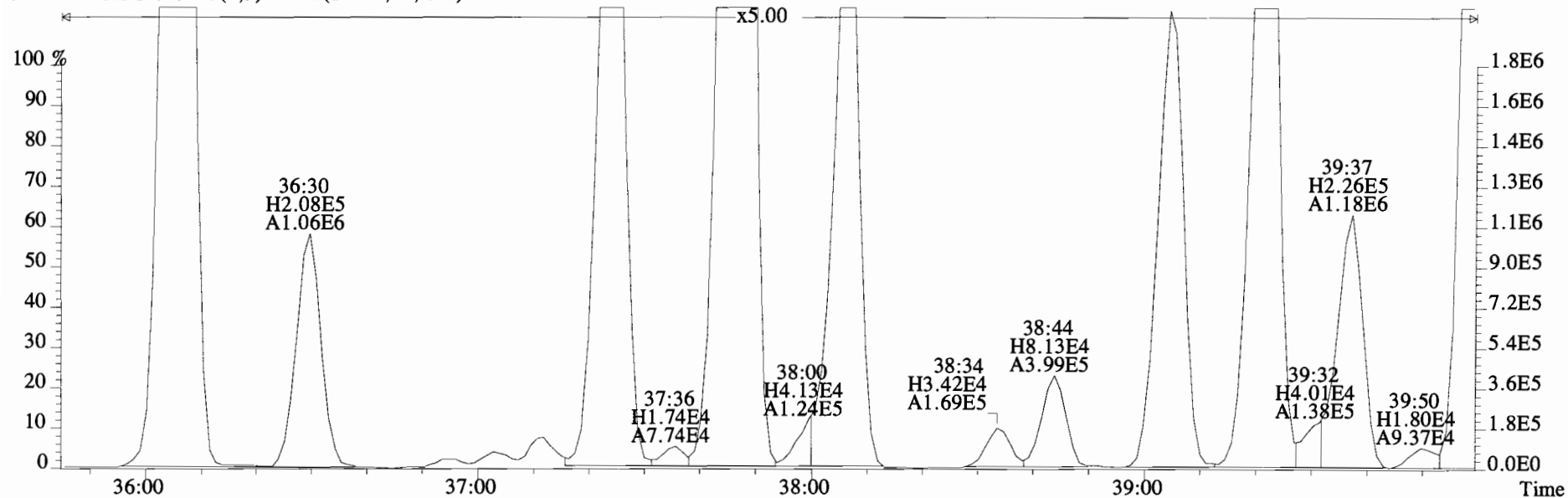
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



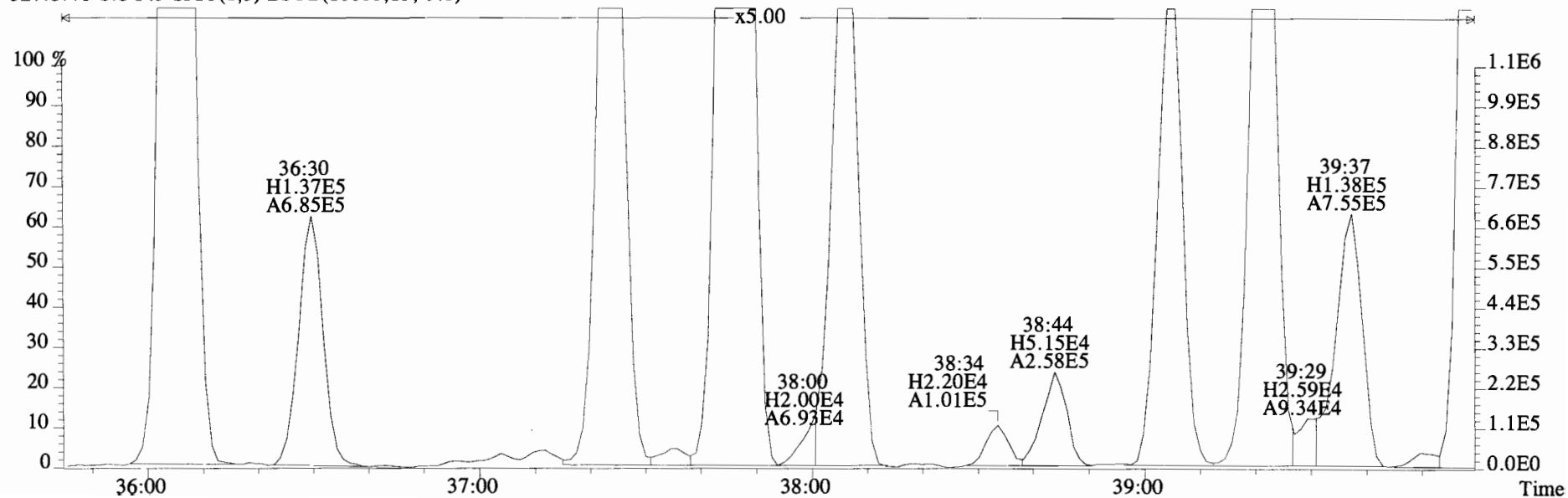
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



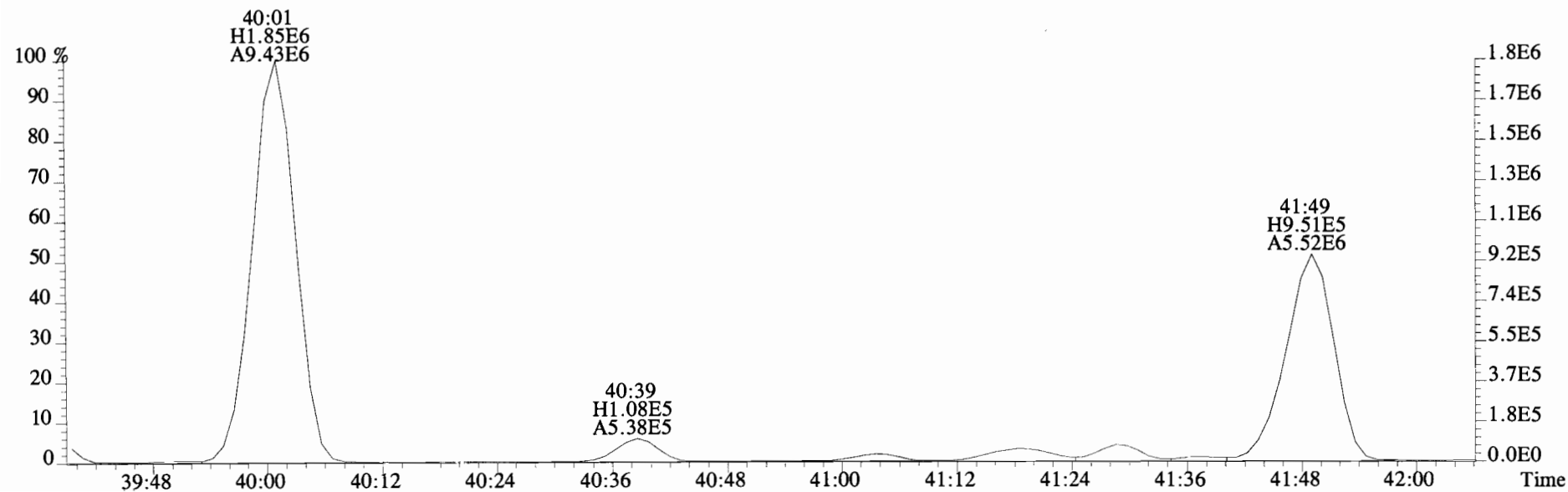
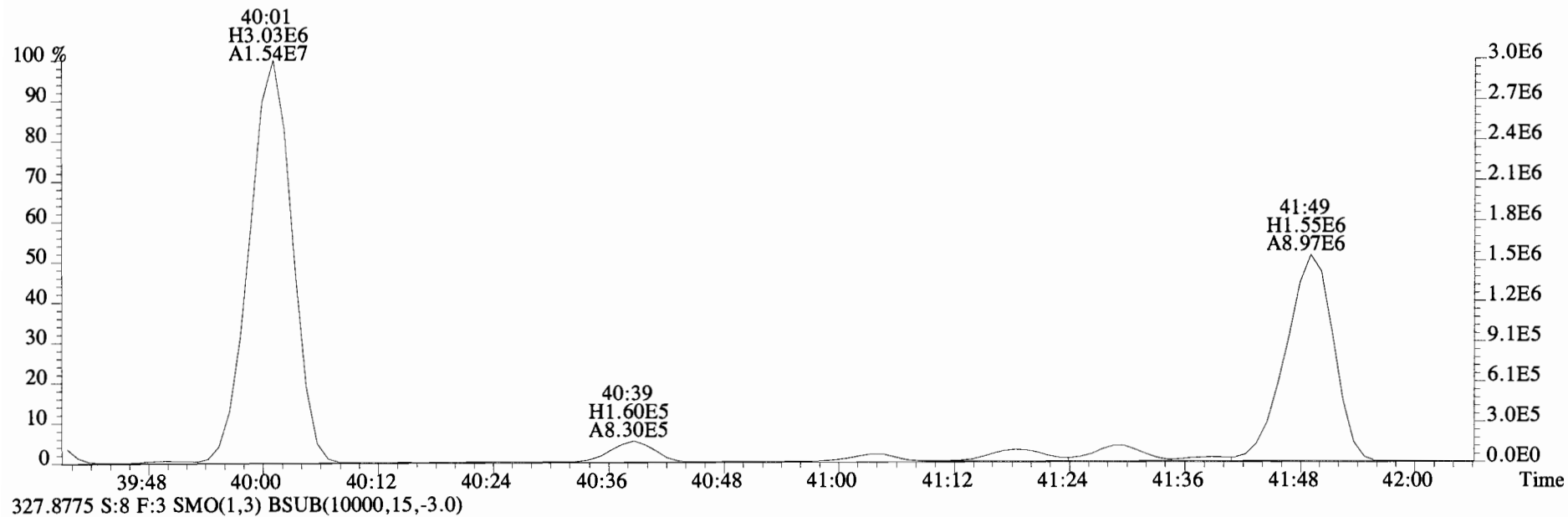
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text: Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
 325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



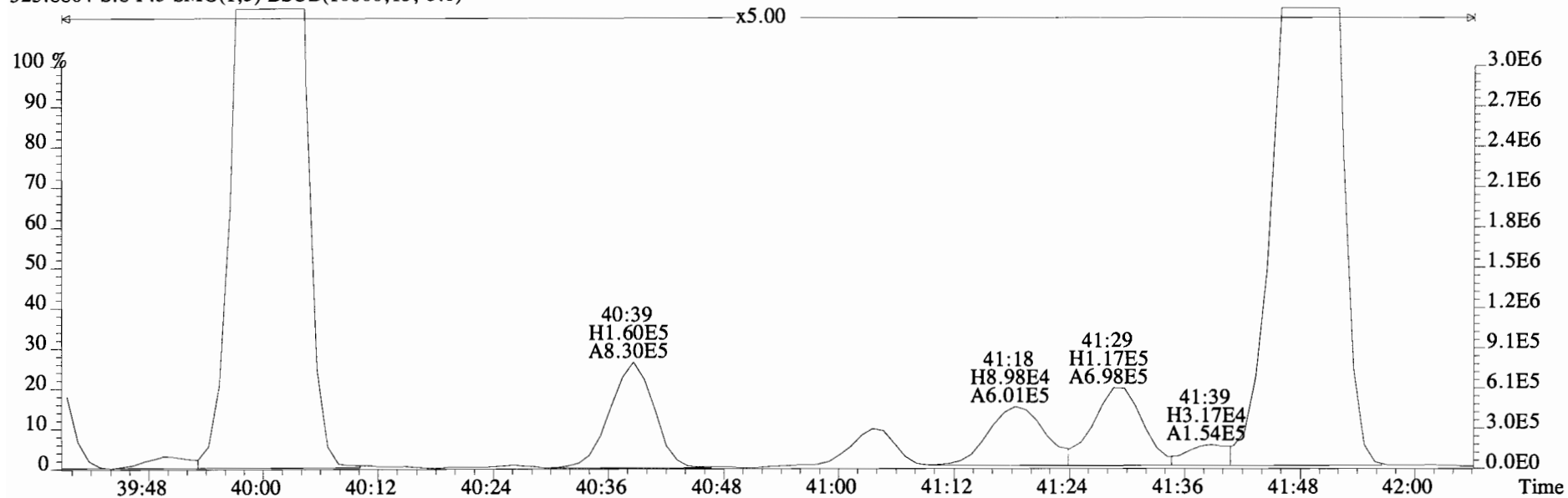
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



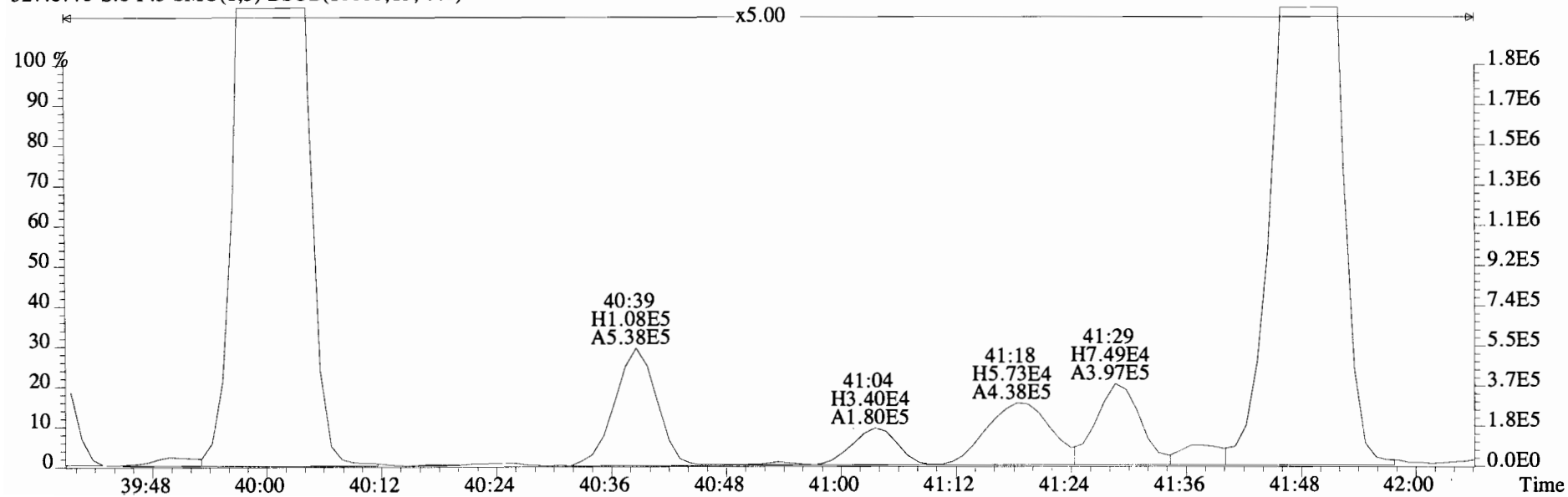
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text: Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



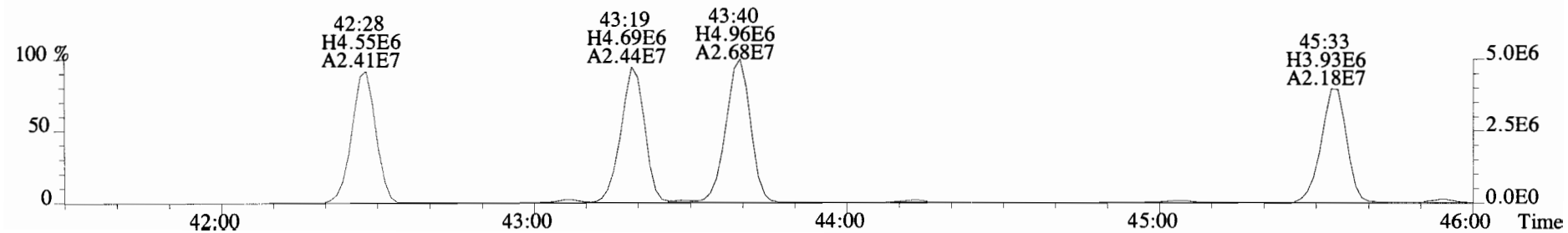
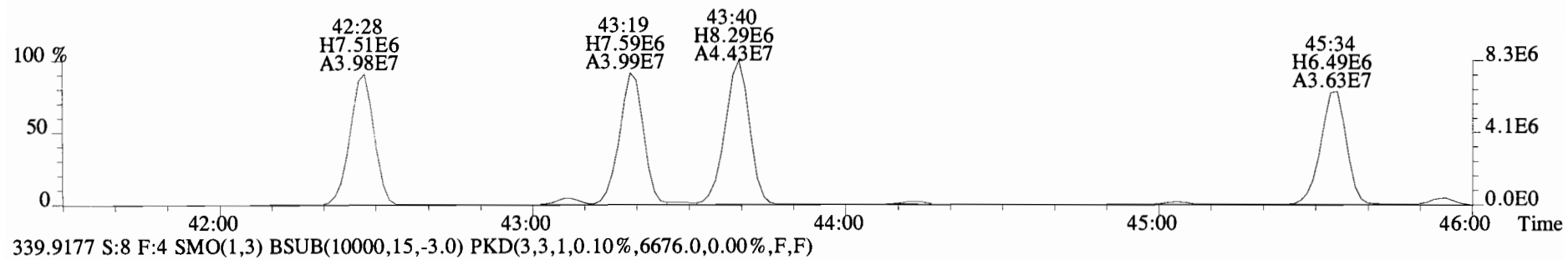
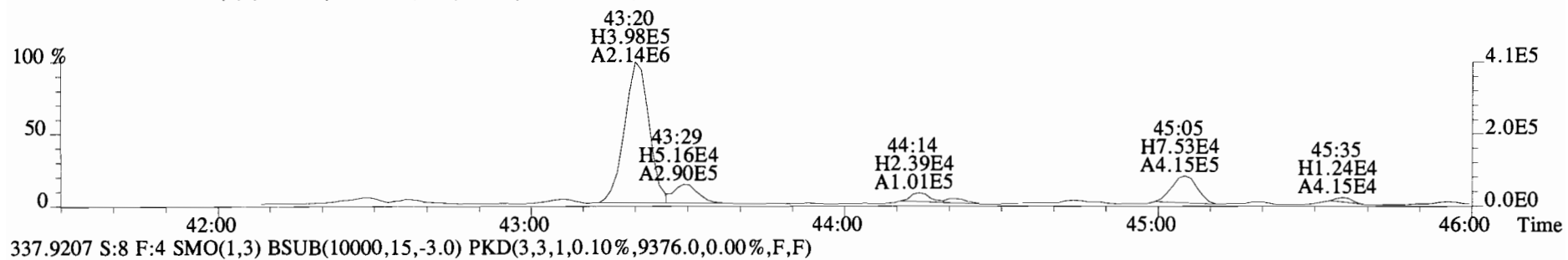
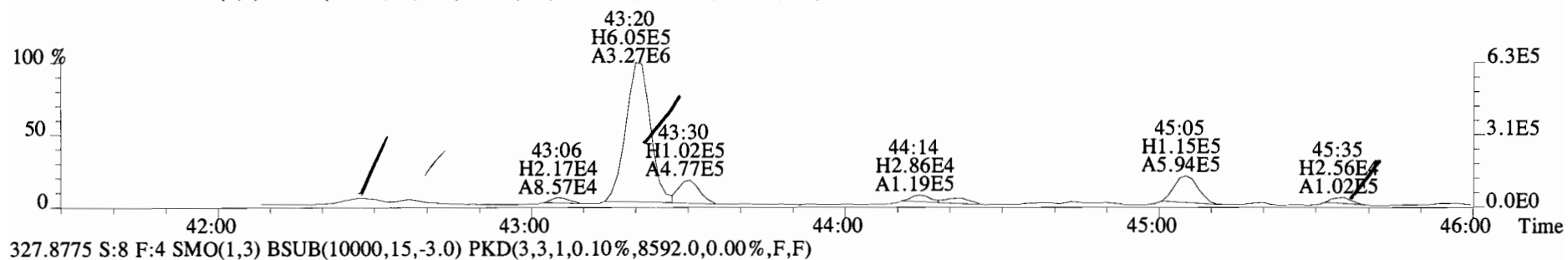
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



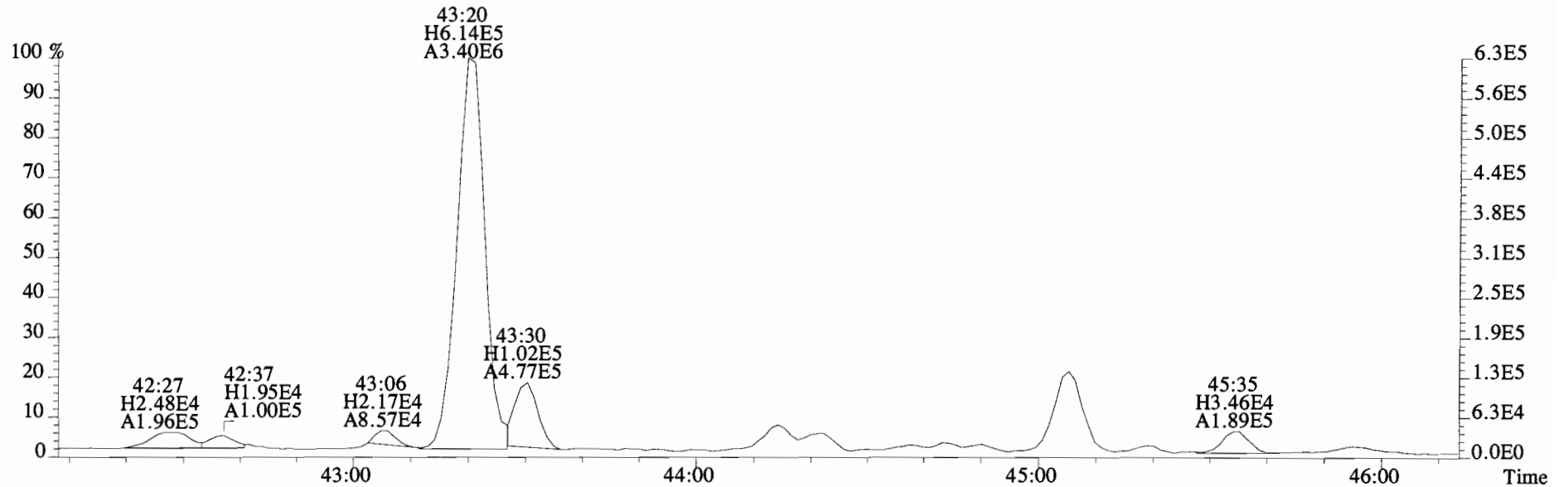
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



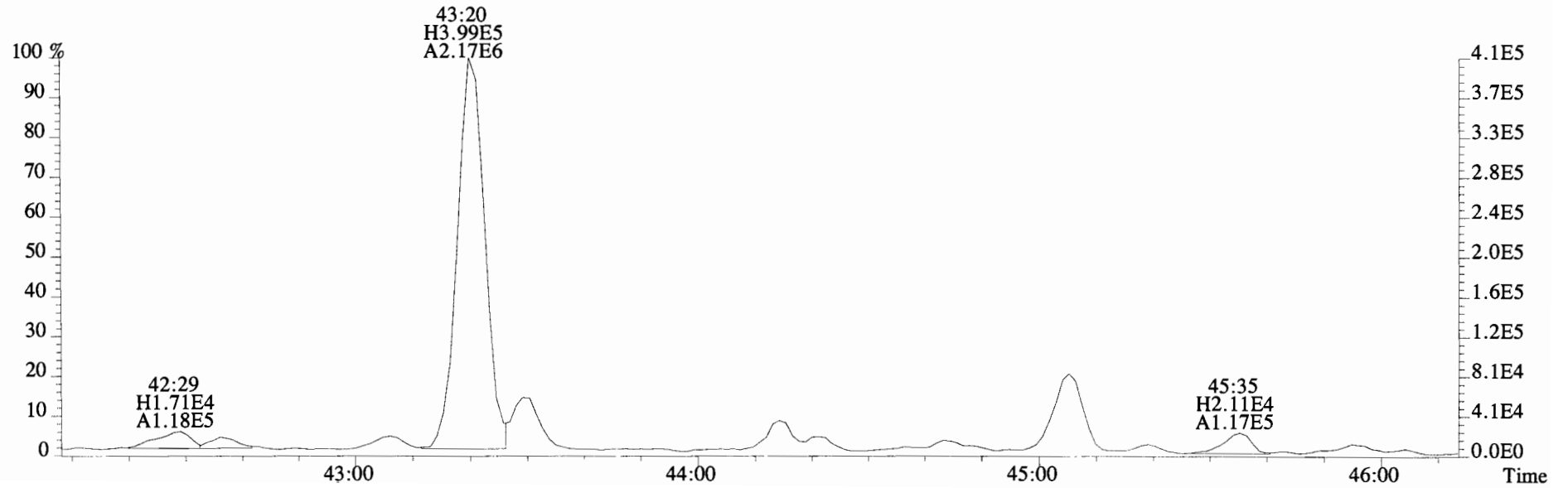
File:140919E1 #1-544 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15816.0,0.00%,F,F)



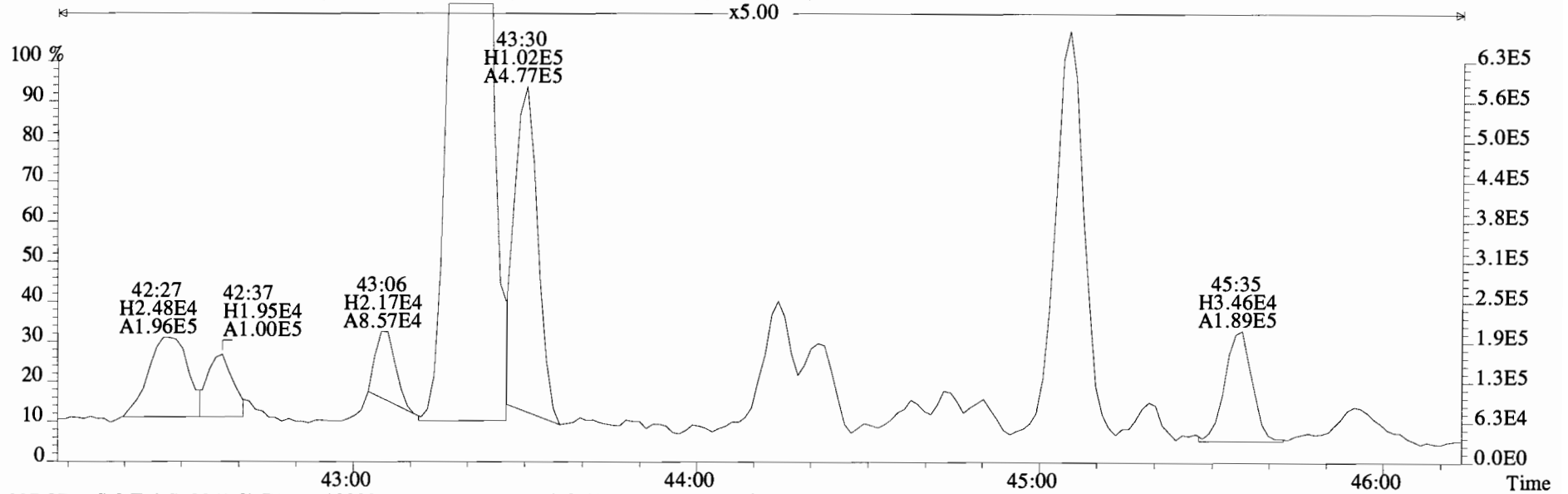
File:140919E1 #1-544 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text: Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15816.0,0.00%,F,F)



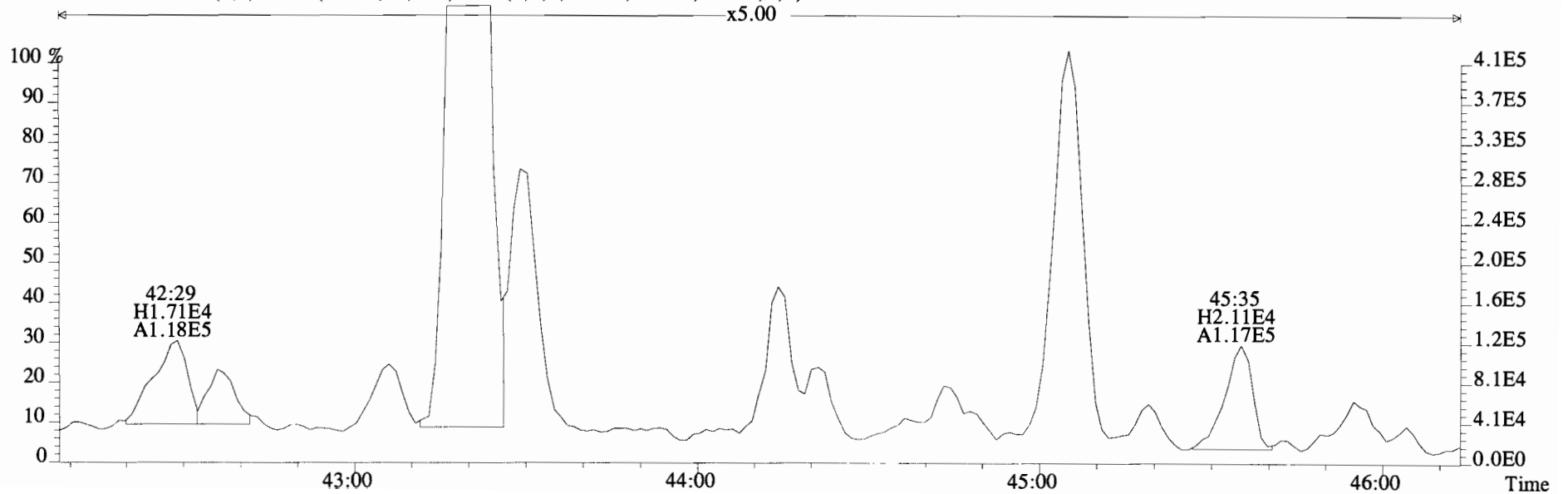
327.8775 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8592.0,0.00%,F,F)



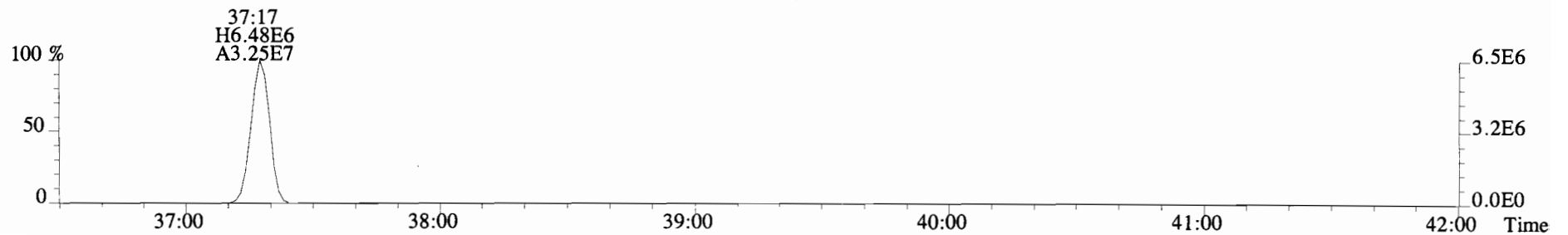
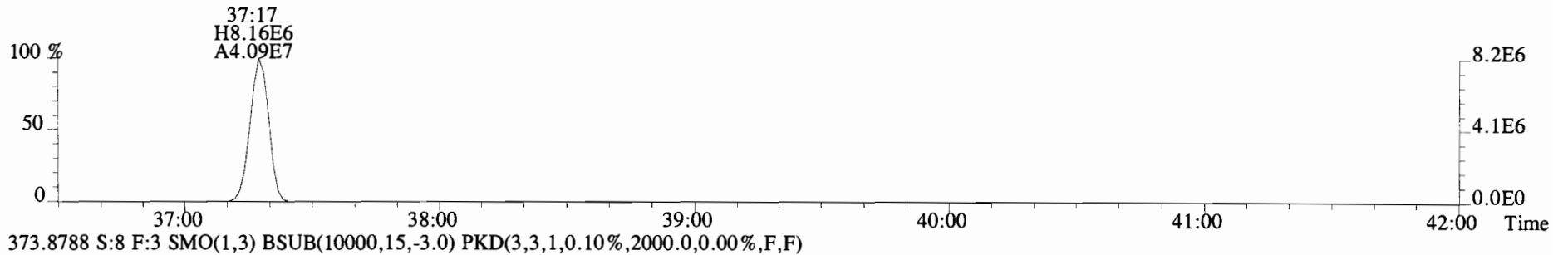
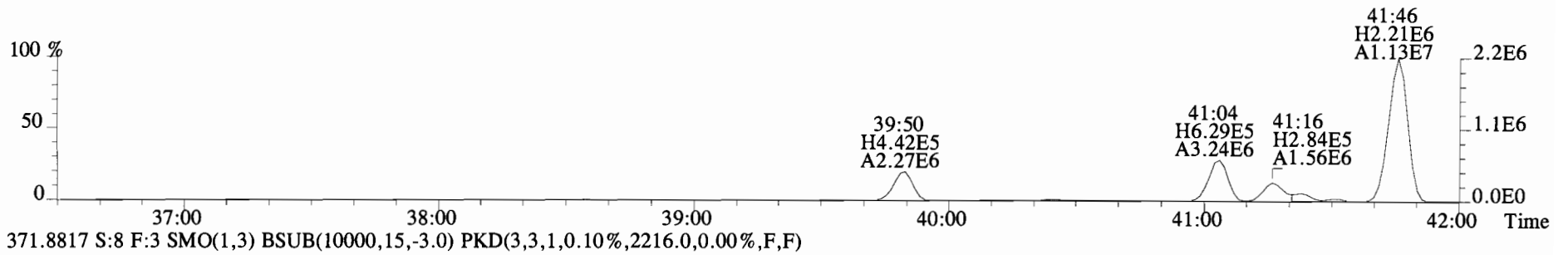
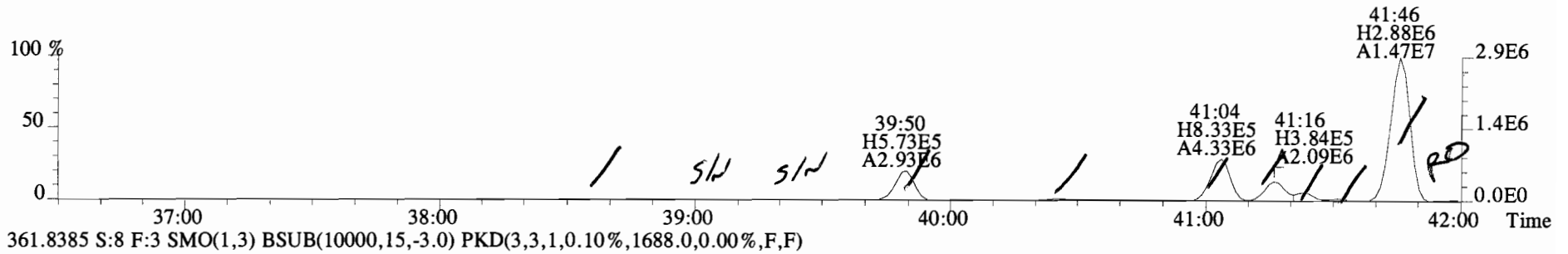
File:140919E1 #1-544 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15816.0,0.00%,F,F)



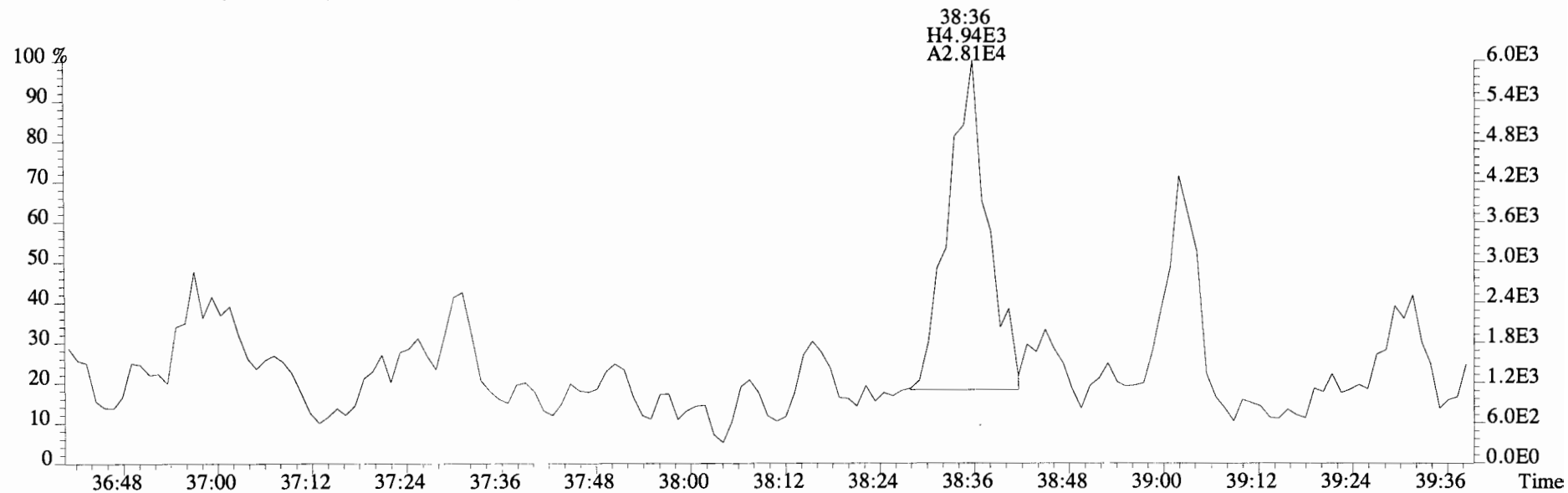
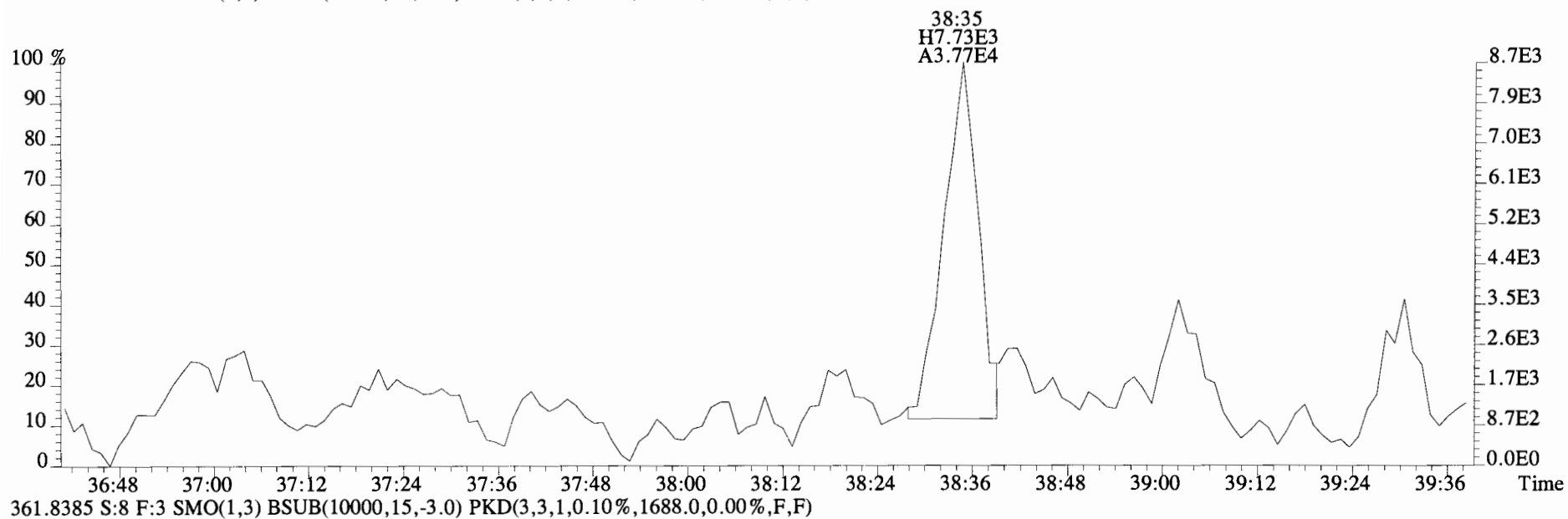
327.8775 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8592.0,0.00%,F,F)



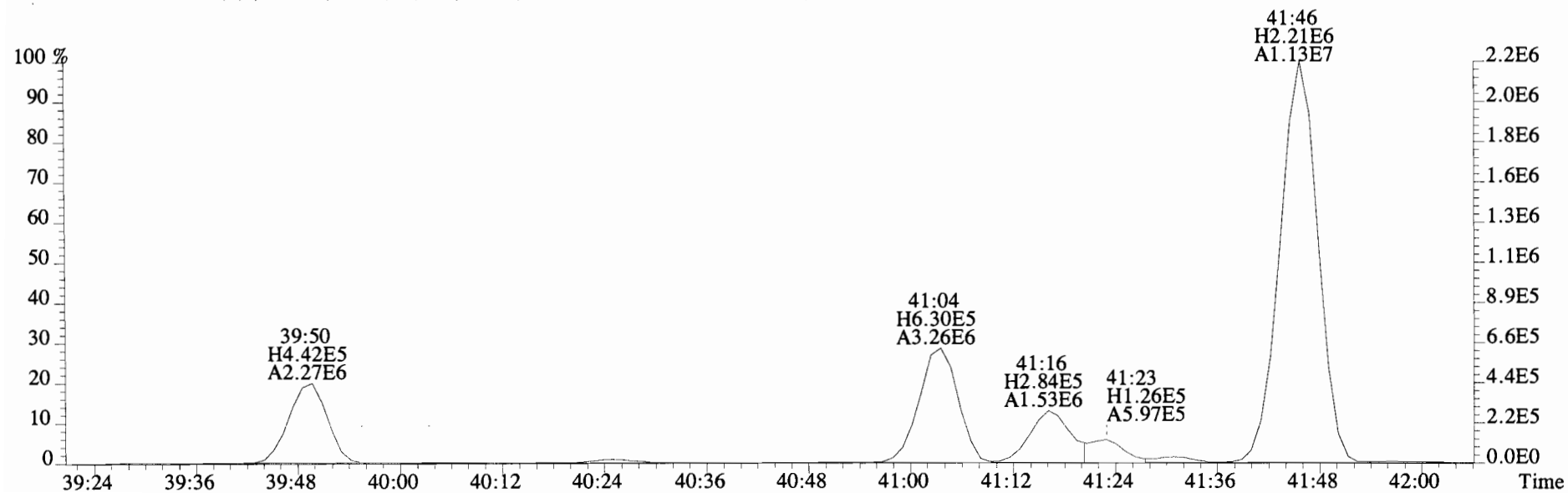
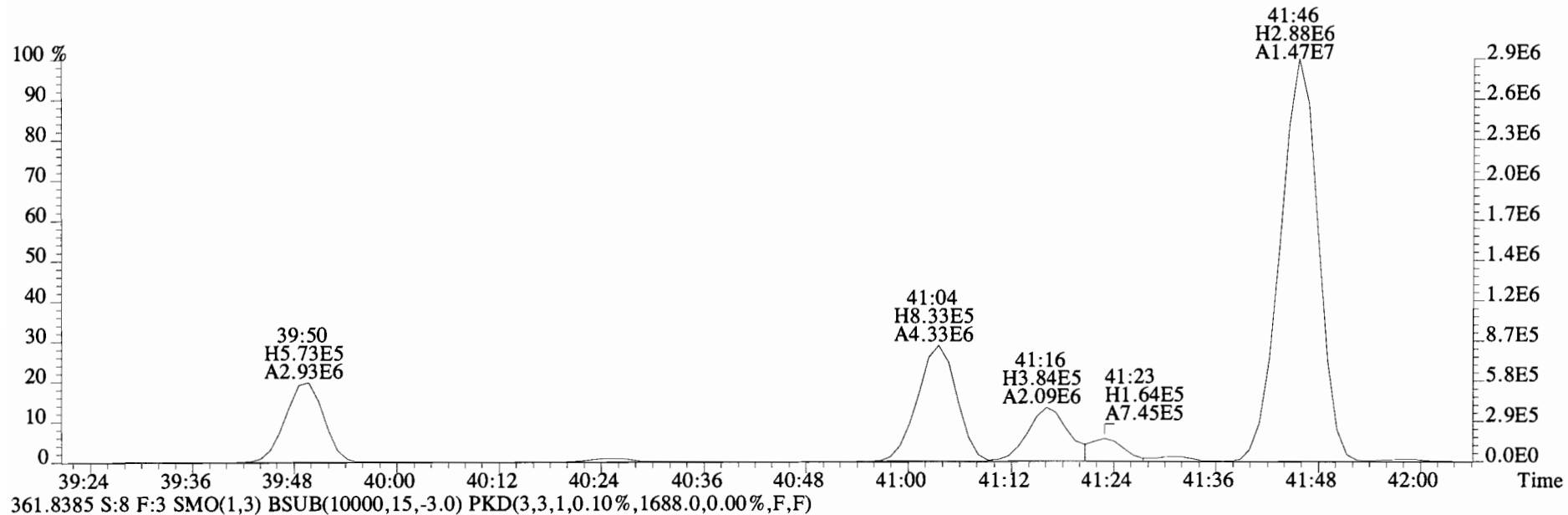
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1688.0,0.00%,F,F)



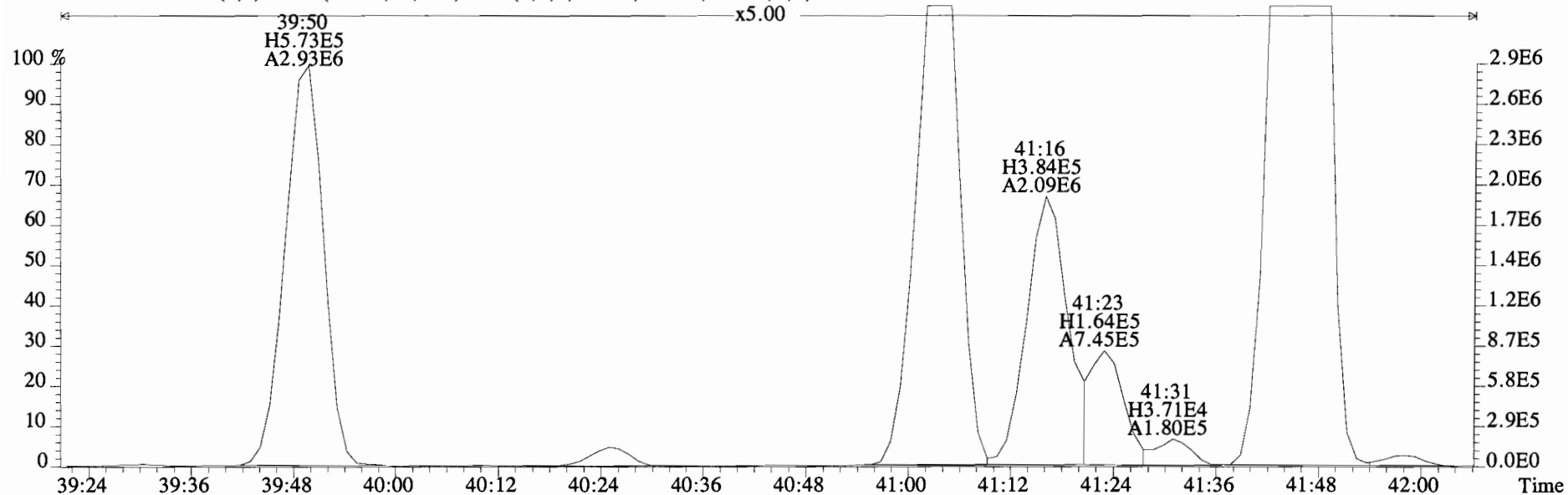
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1688.0,0.00%,F,F)



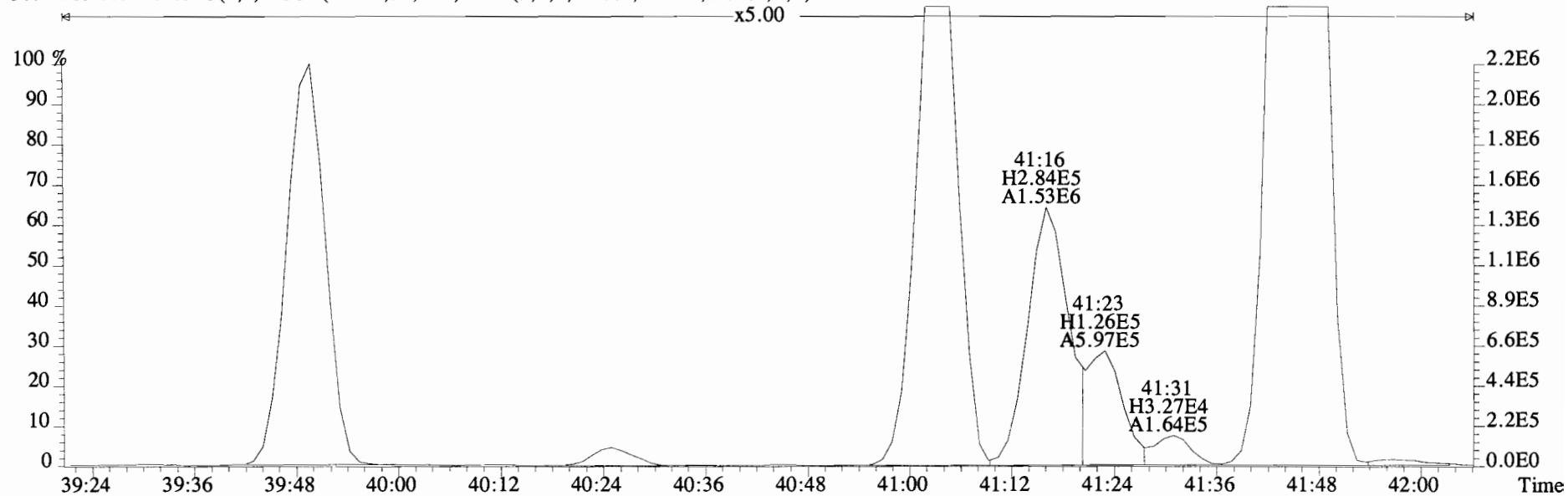
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1688.0,0.00%,F,F)



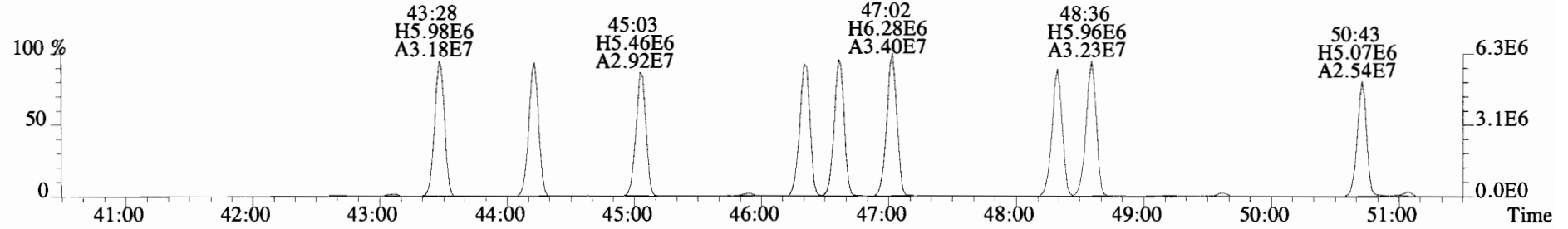
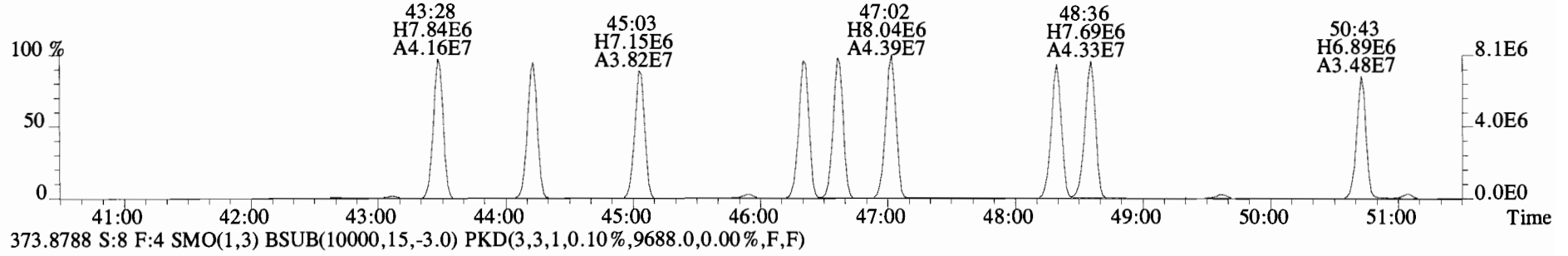
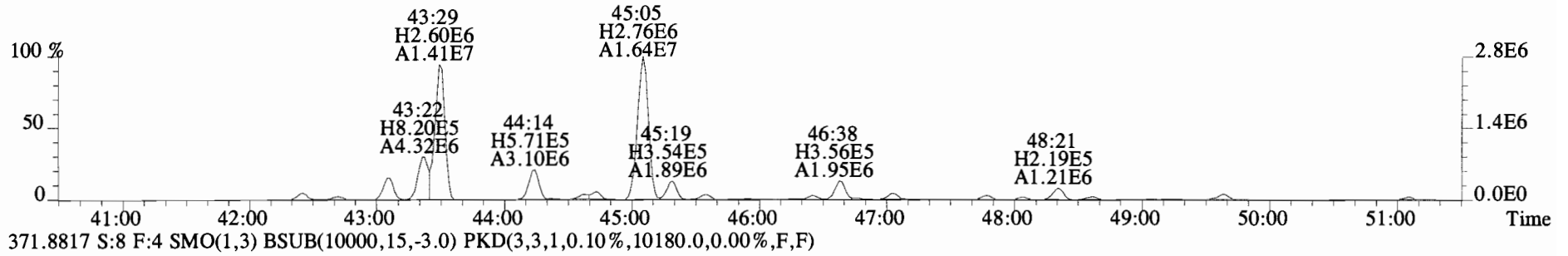
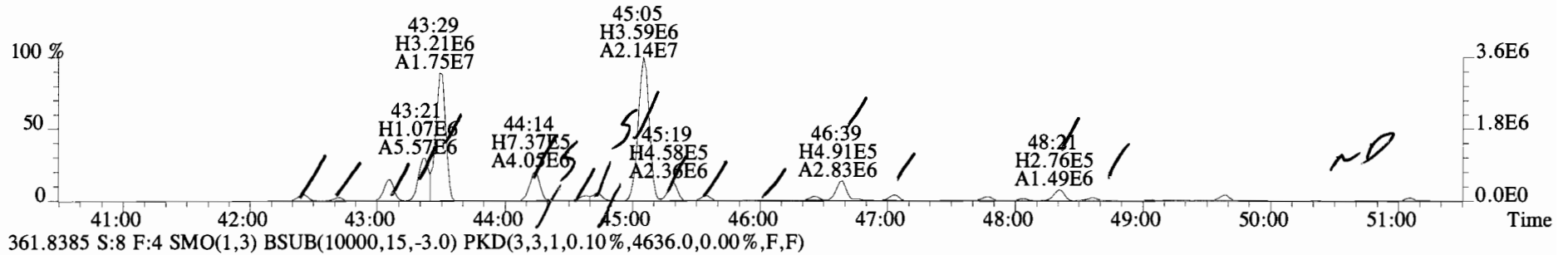
File:140919E1 #1-770 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text: Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1688.0,0.00%,F,F)



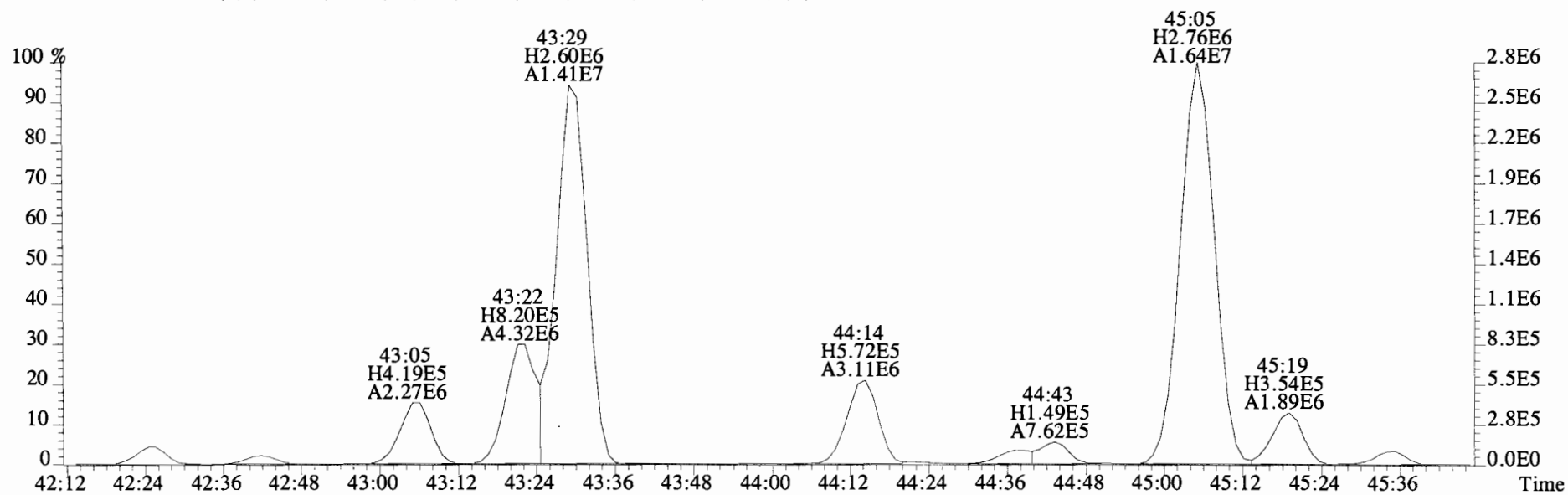
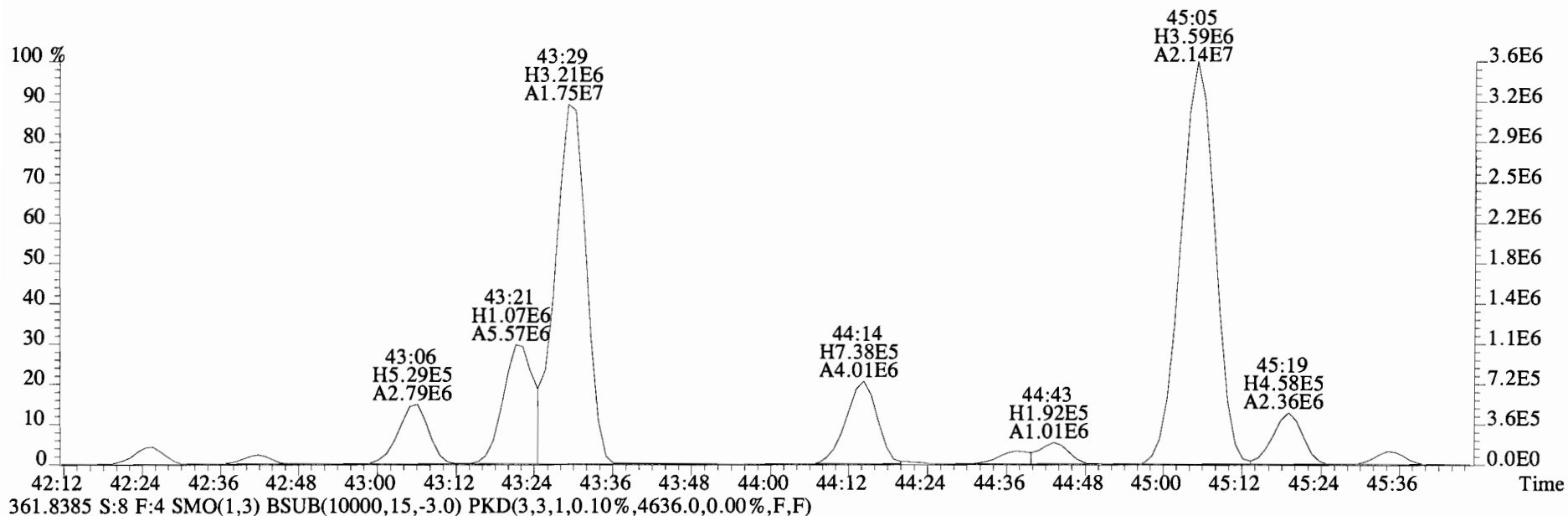
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1688.0,0.00%,F,F)



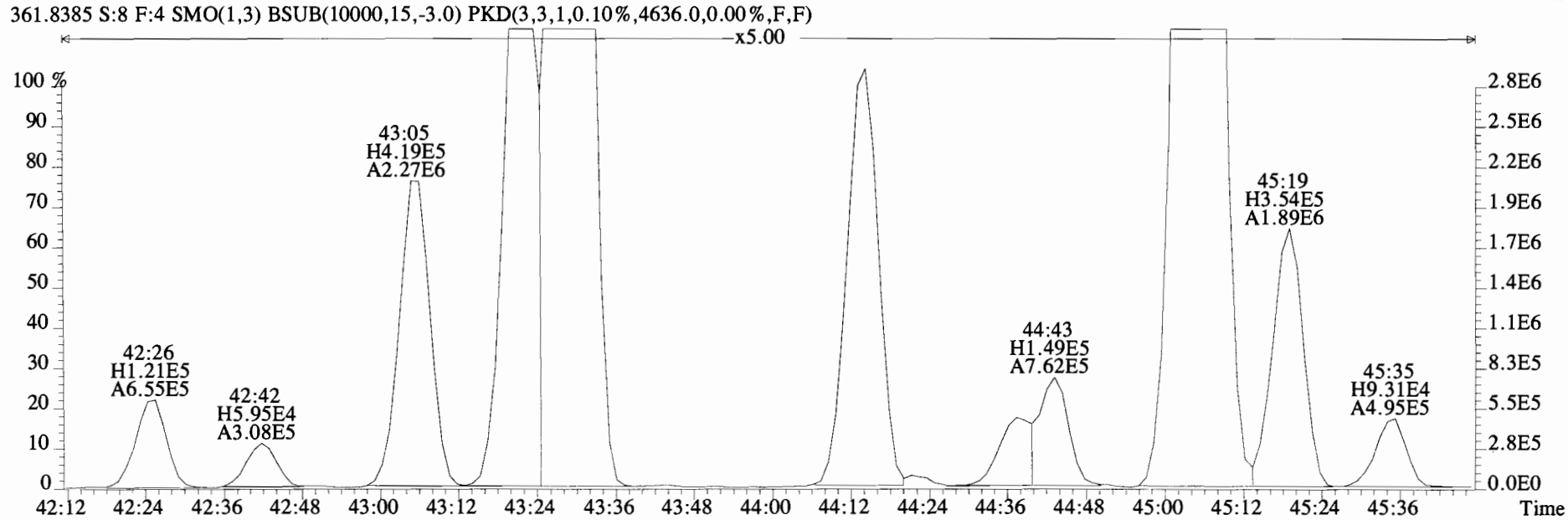
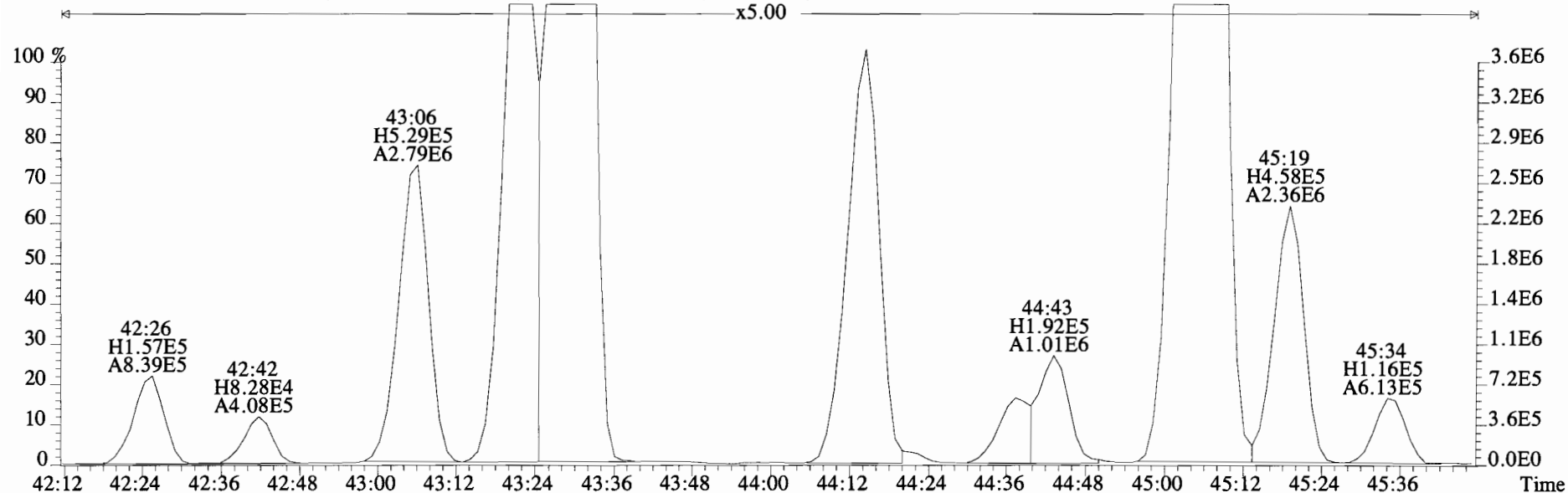
File:140919E1 #1-544 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6092.0,0.00%,F,F)



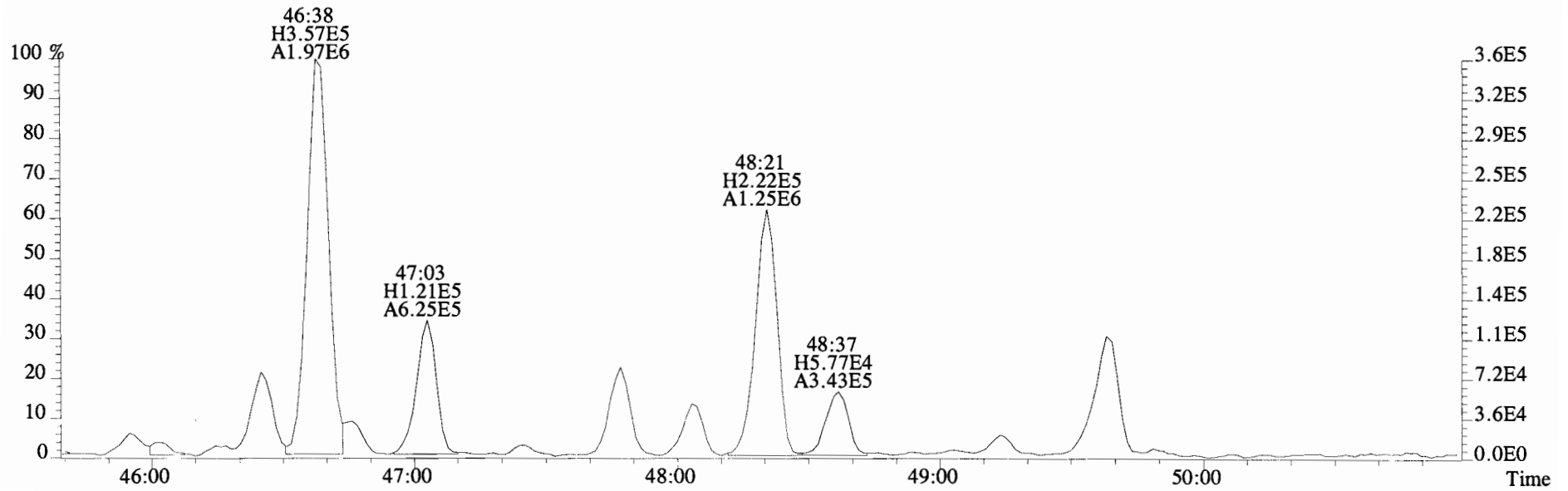
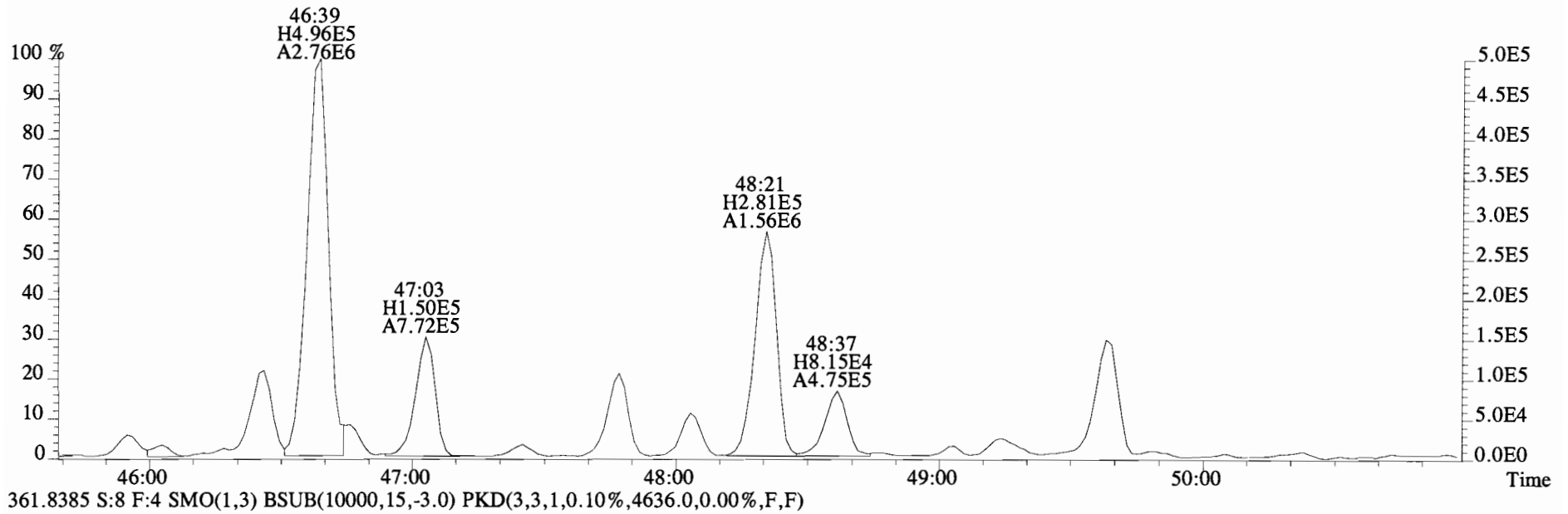
File:140919E1 #1-544 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text: Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
 359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6092.0,0.00%,F,F)



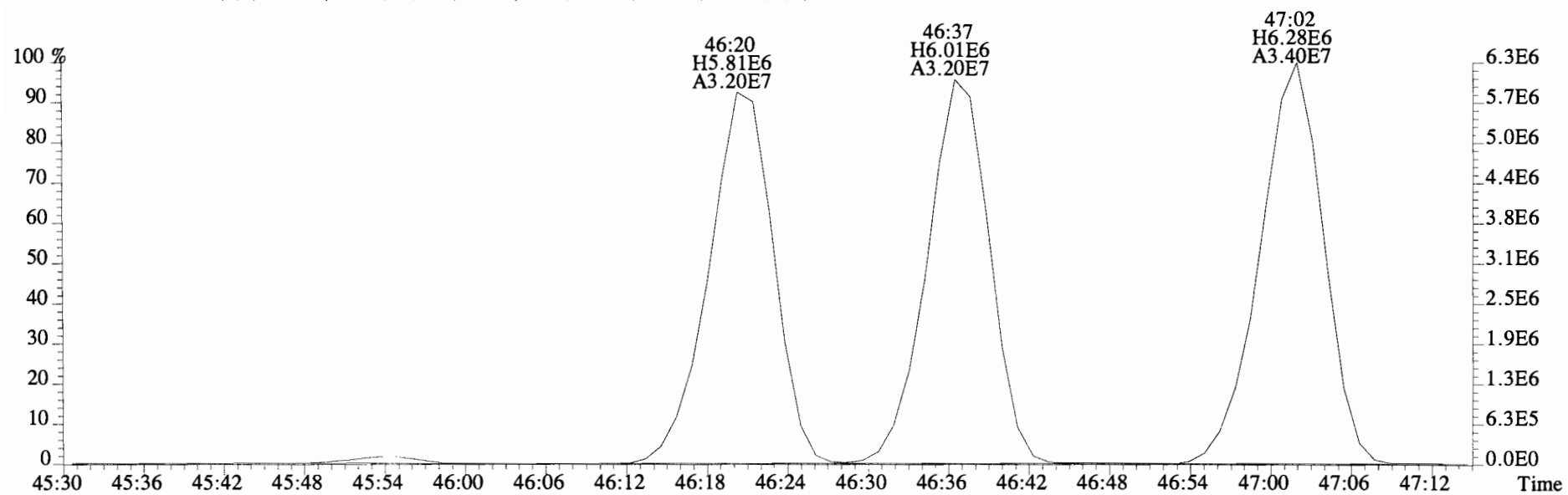
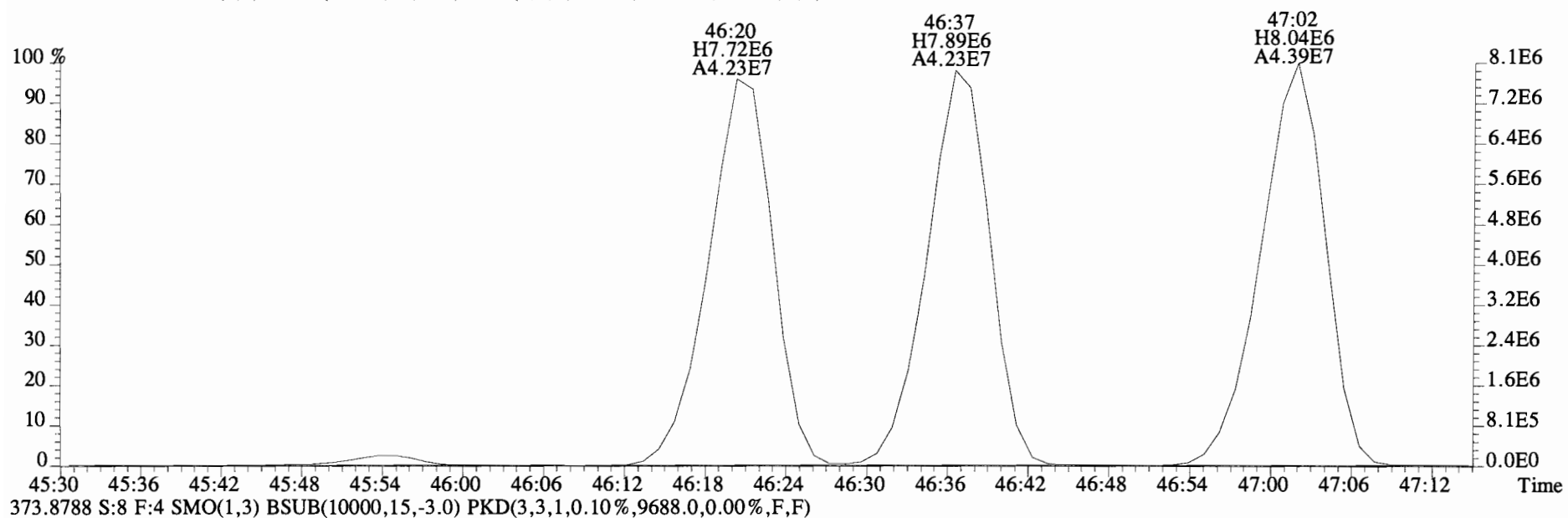
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 Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
 359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6092.0,0.00%,F,F)



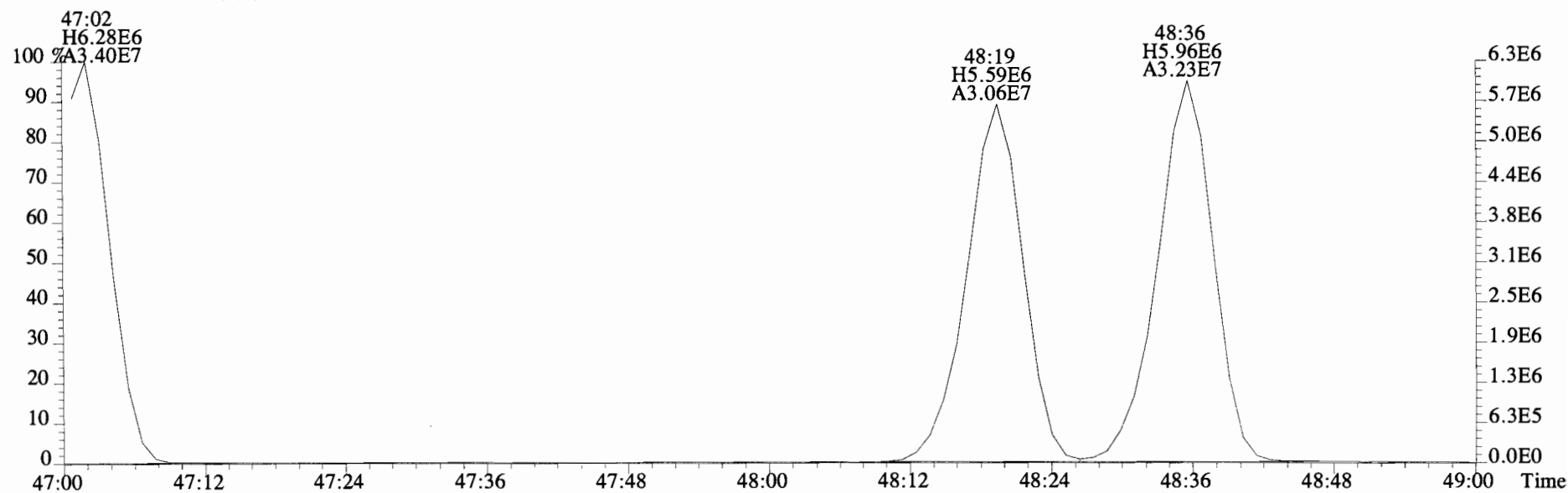
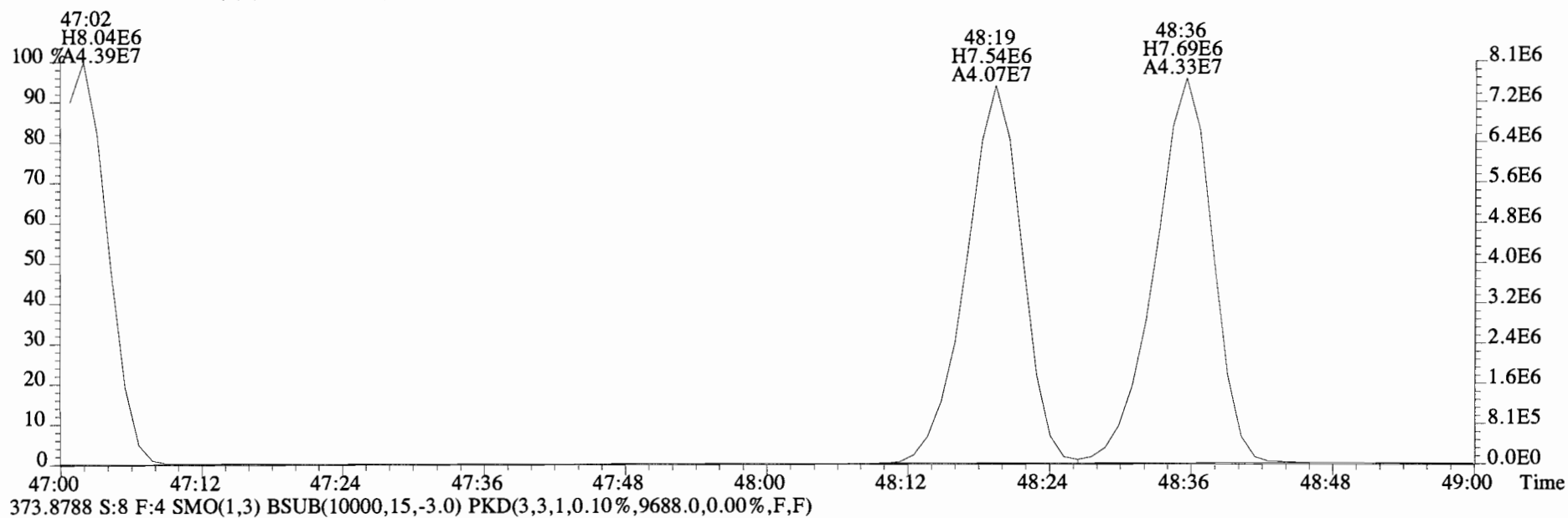
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6092.0,0.00%,F,F)



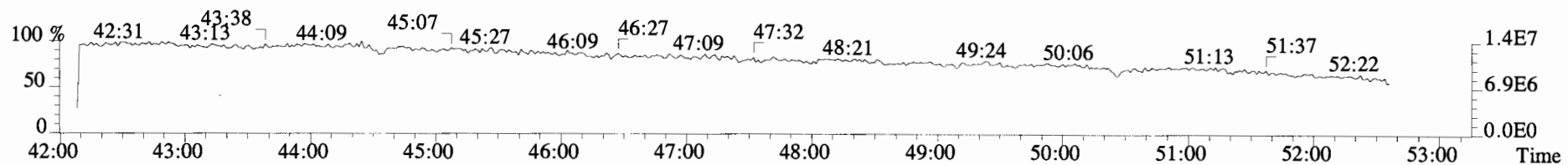
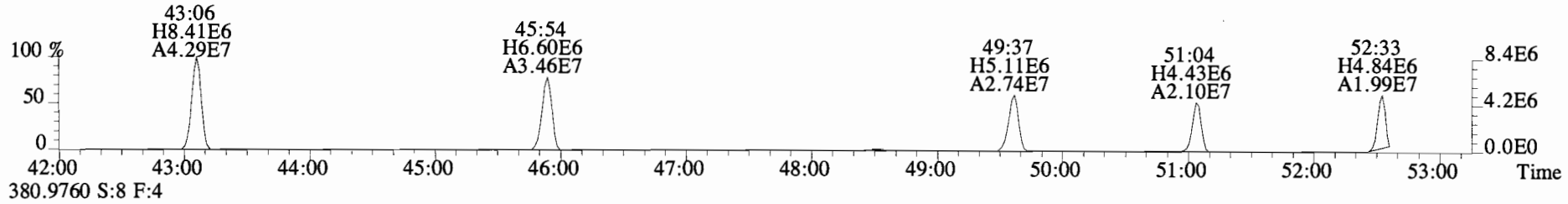
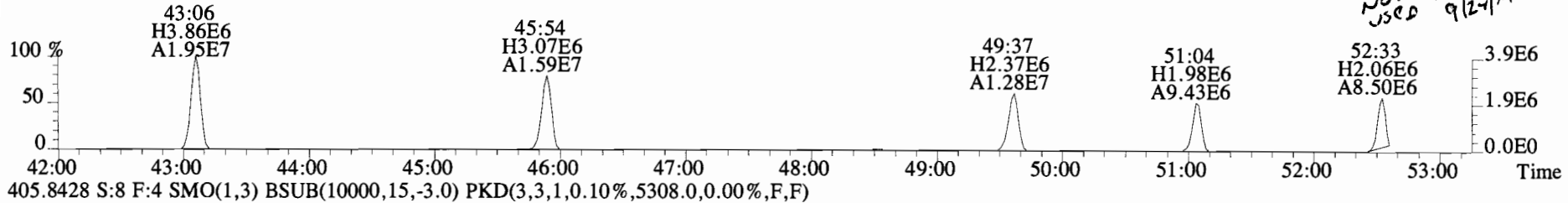
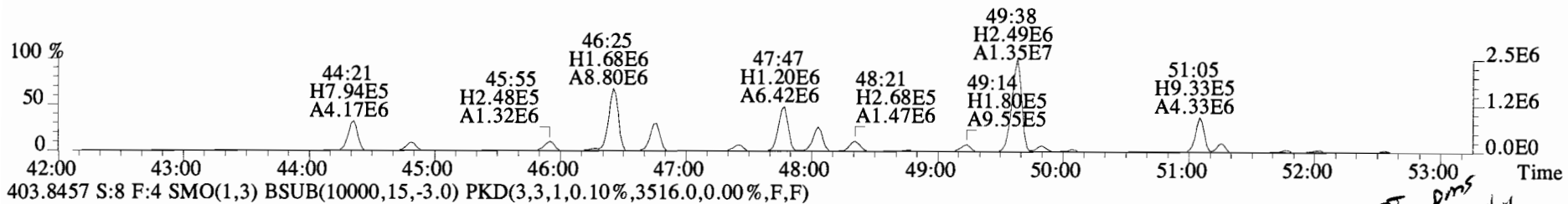
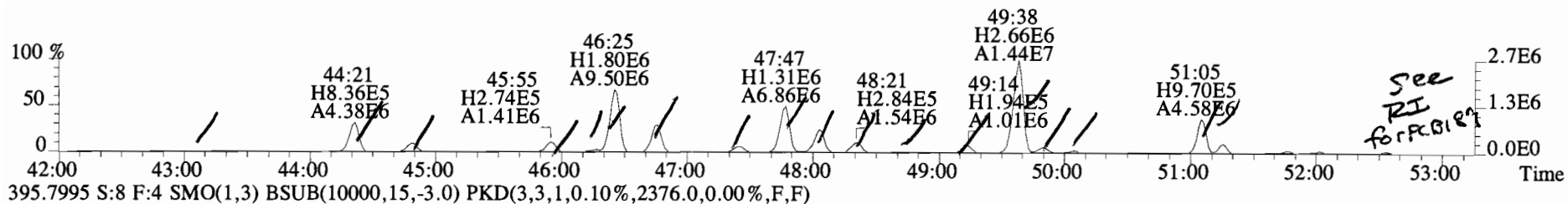
File:140919E1 #1-544 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10180.0,0.00%,F,F)



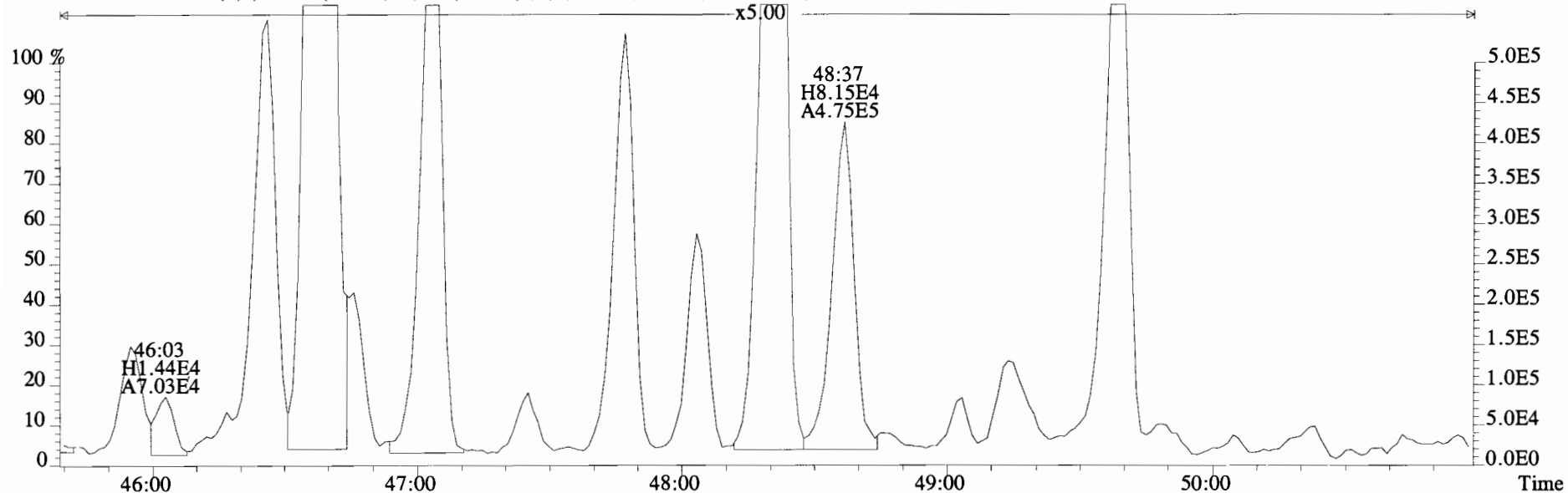
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Sample#8 File Text: Vista Analytical Laboratory VG-8 Text: 1400659-02 PS-OS-01-20140909-W 1 Exp: PCB_ZB1
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10180.0,0.00%,F,F)



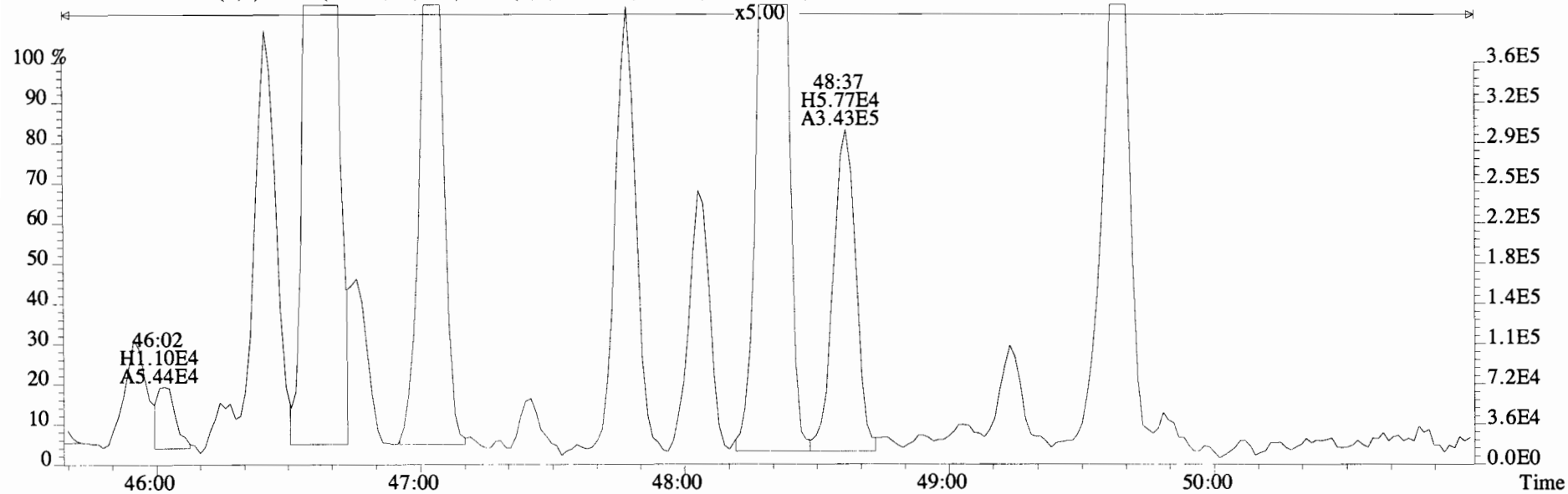
File:140919E1 #1-544 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2824.0,0.00%,F,F)



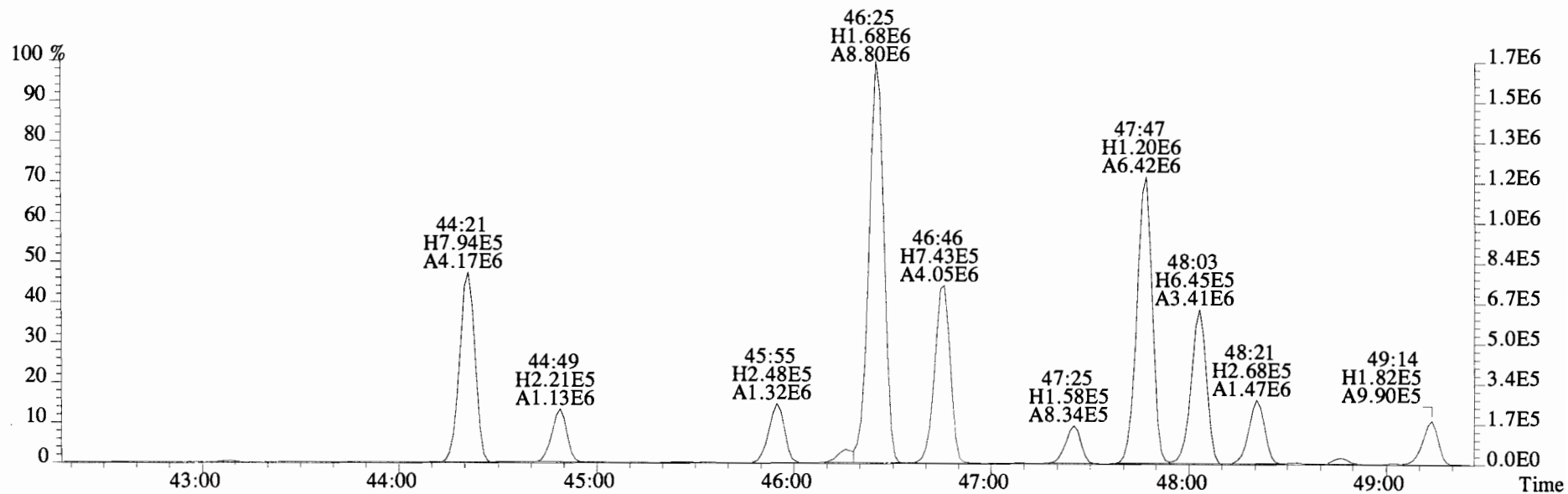
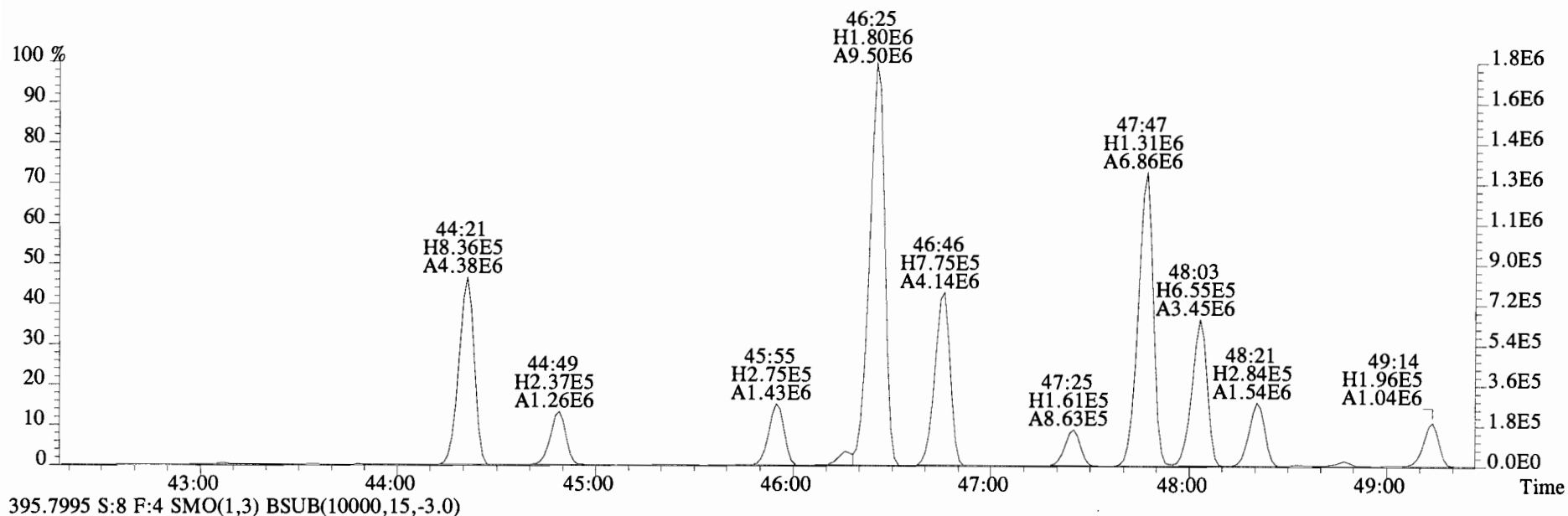
File:140919E1 #1-544 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text: Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6092.0,0.00%,F,F)



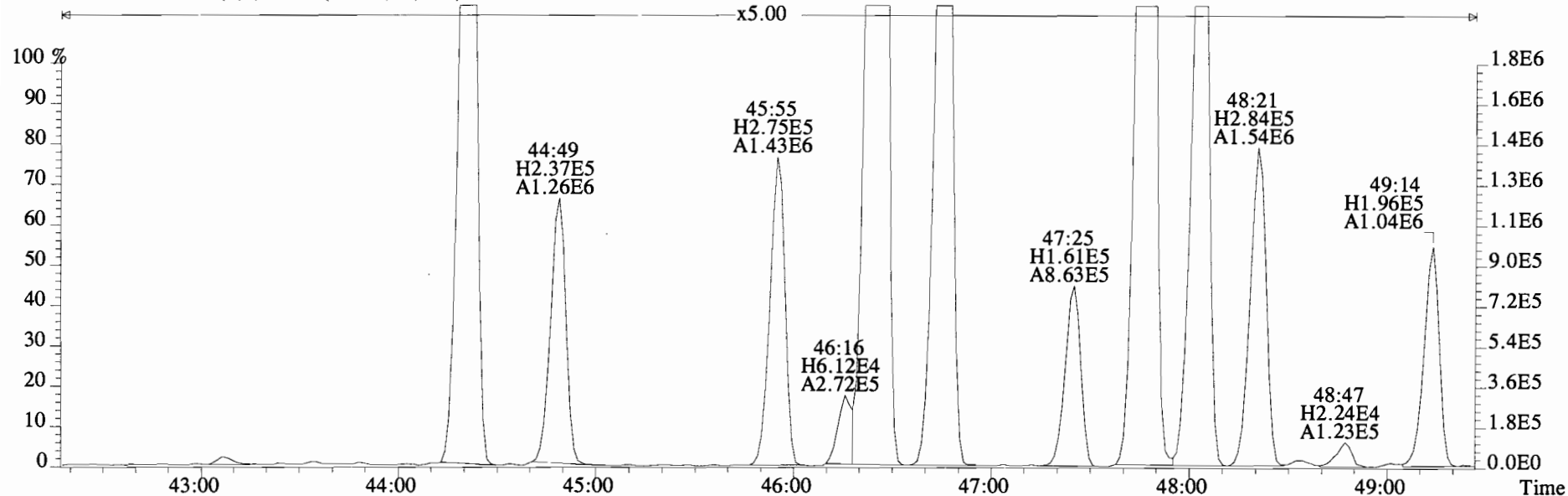
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4636.0,0.00%,F,F)



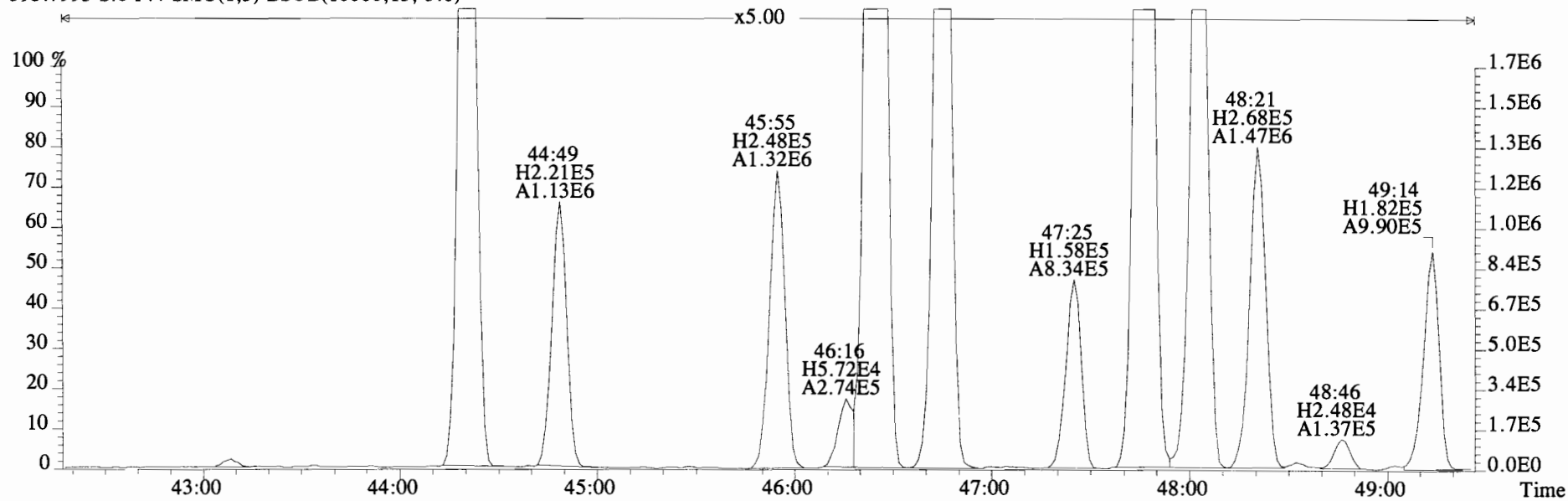
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 Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
 393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



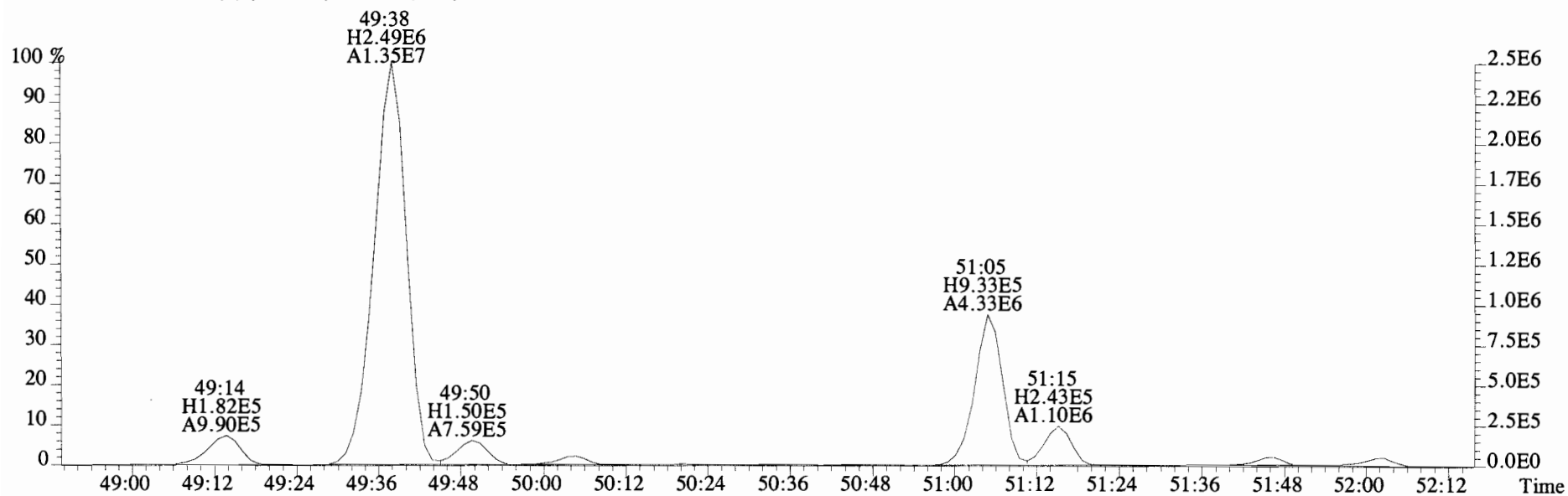
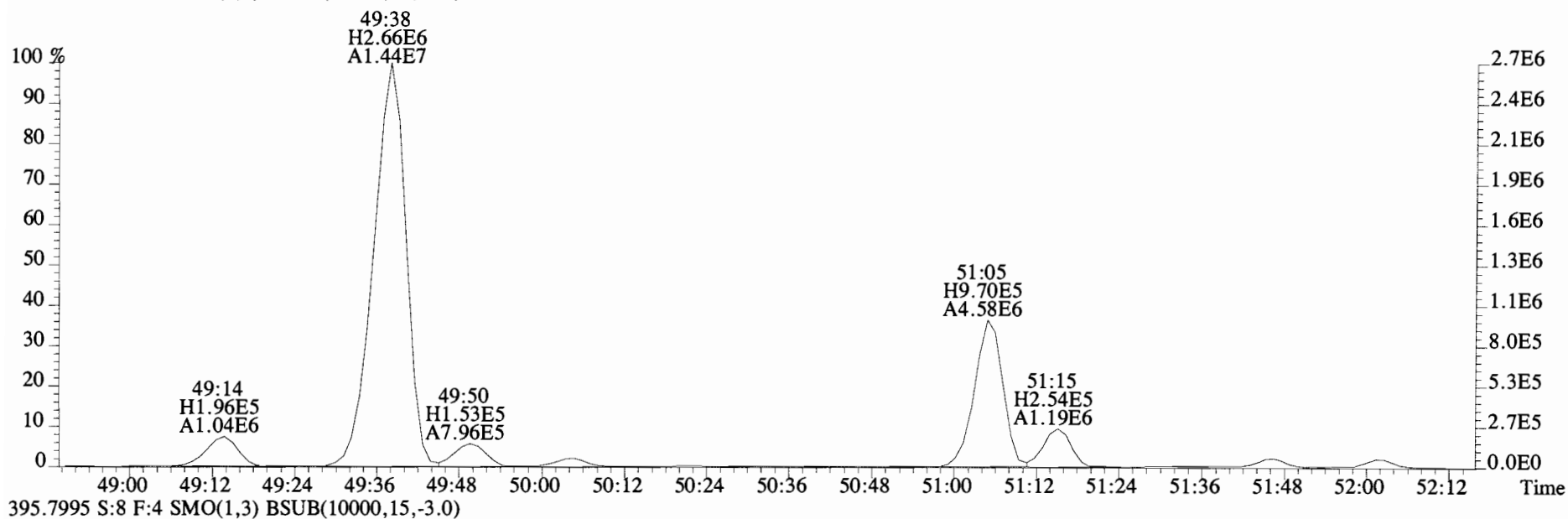
File:140919E1 #1-544 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
 393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



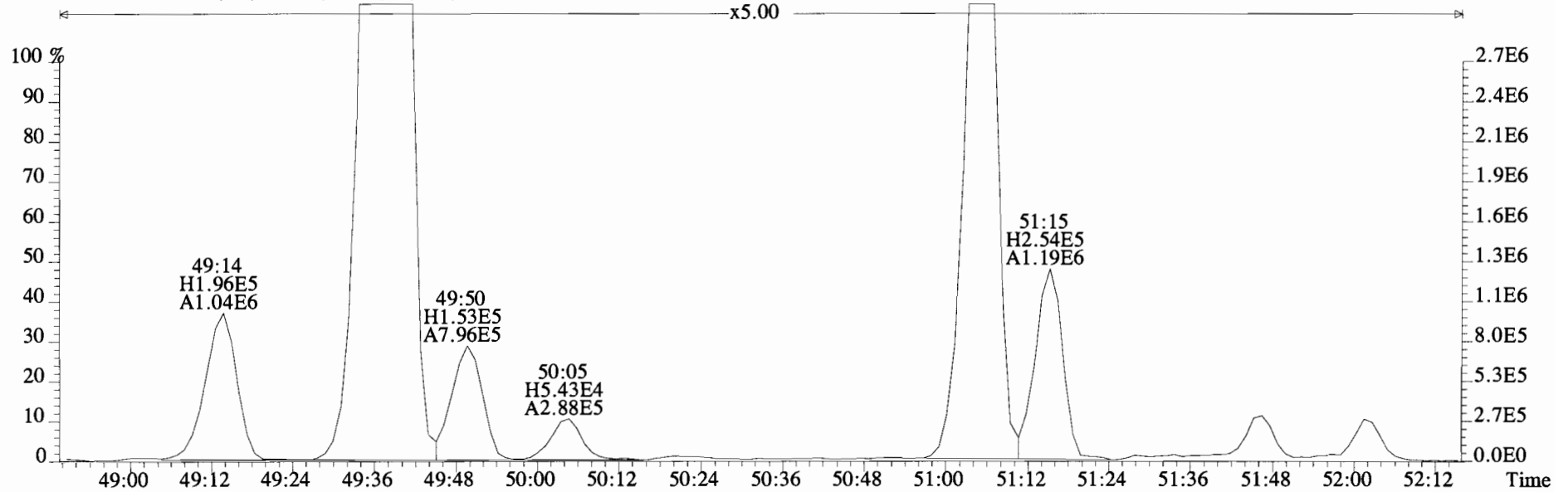
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



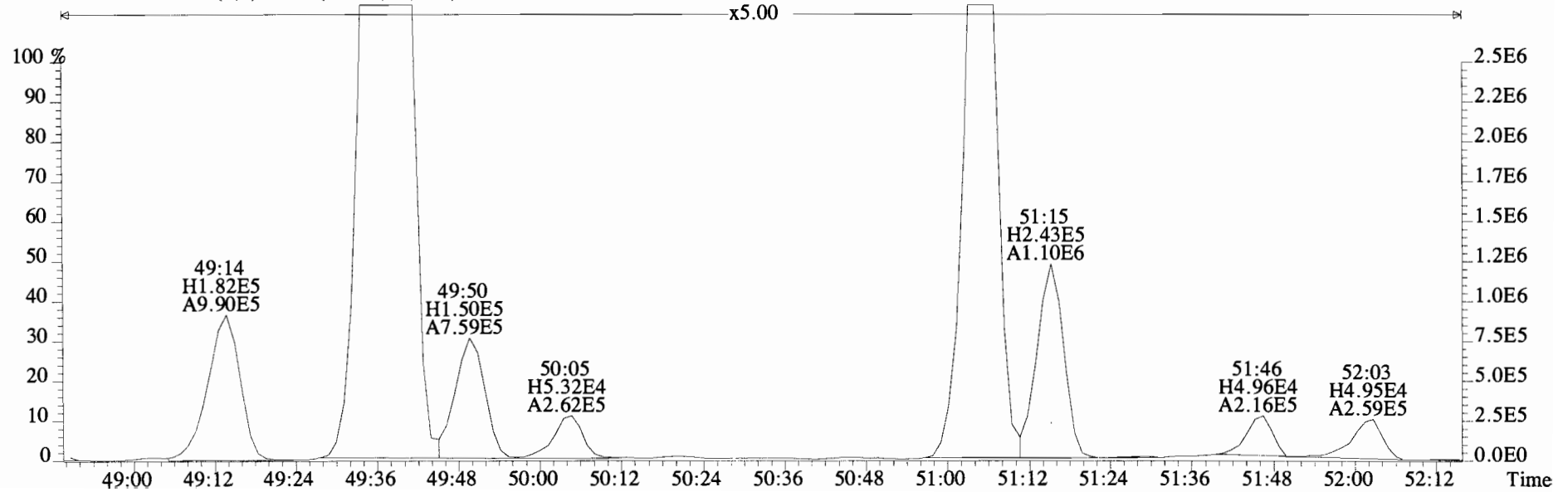
File:140919E1 #1-544 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



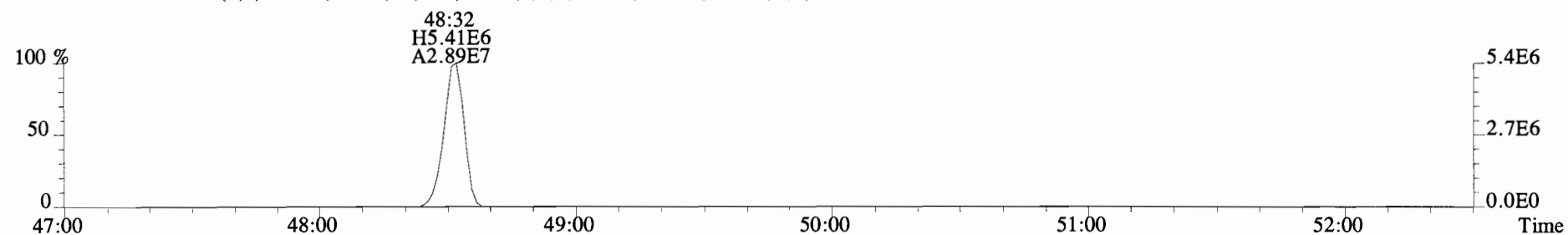
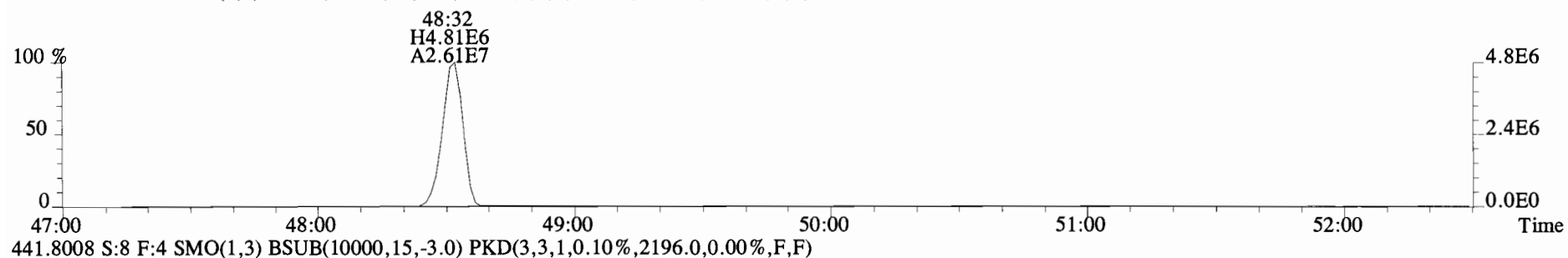
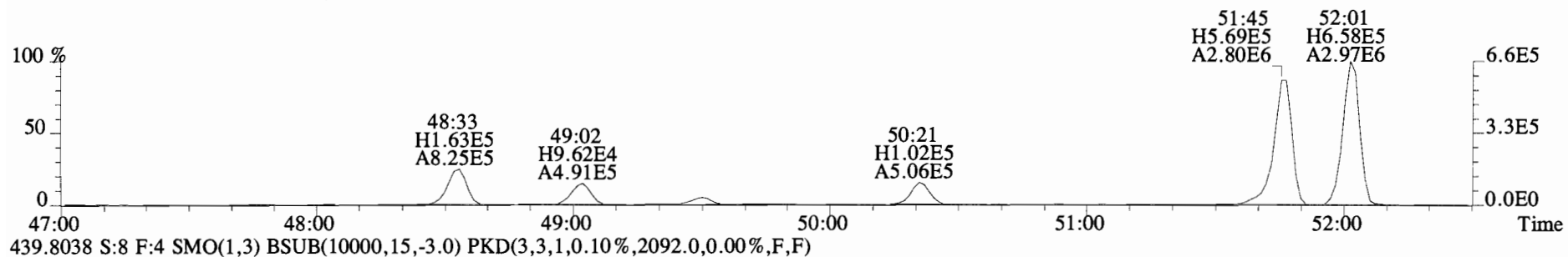
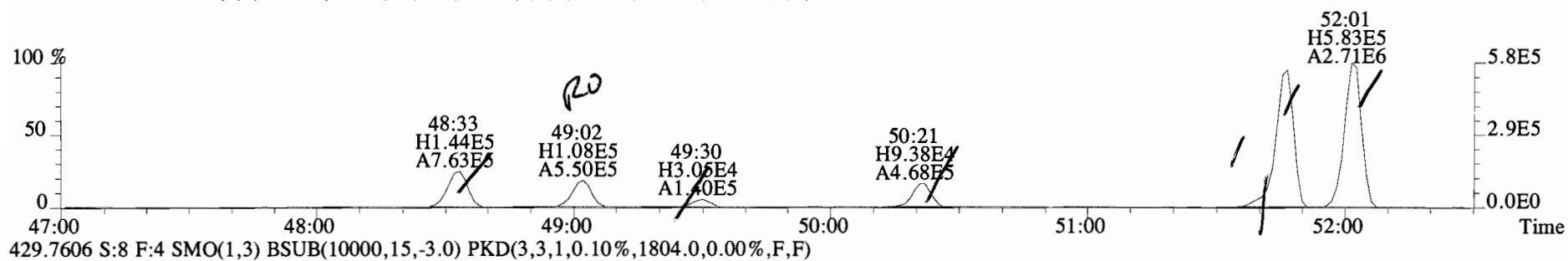
File:140919E1 #1-544 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



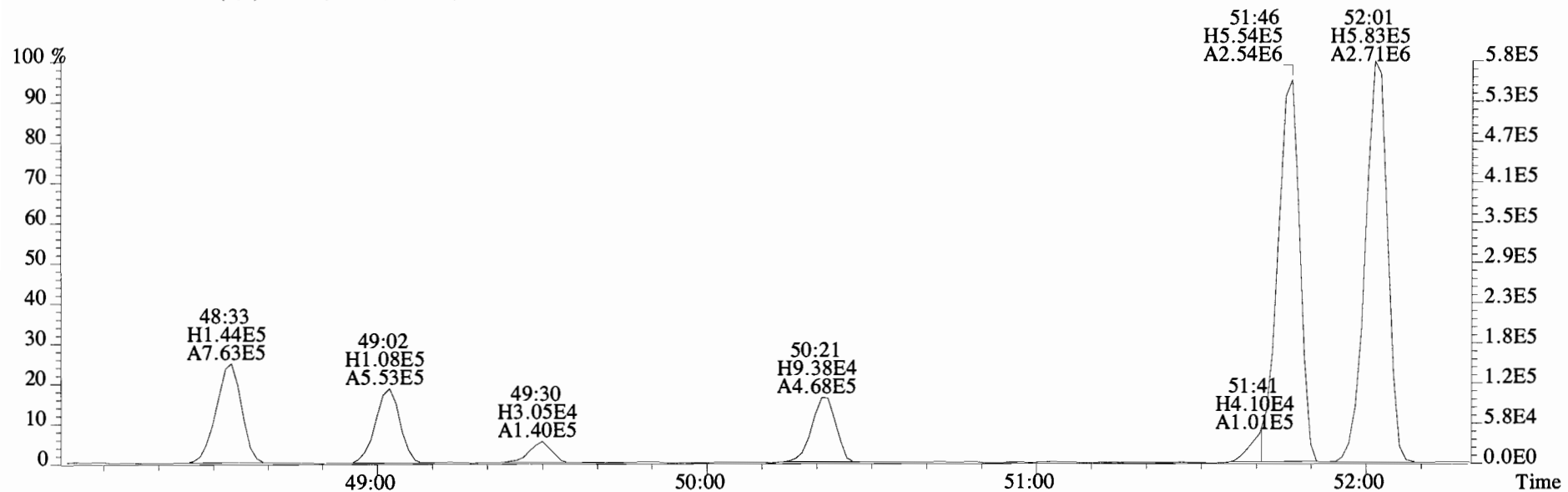
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



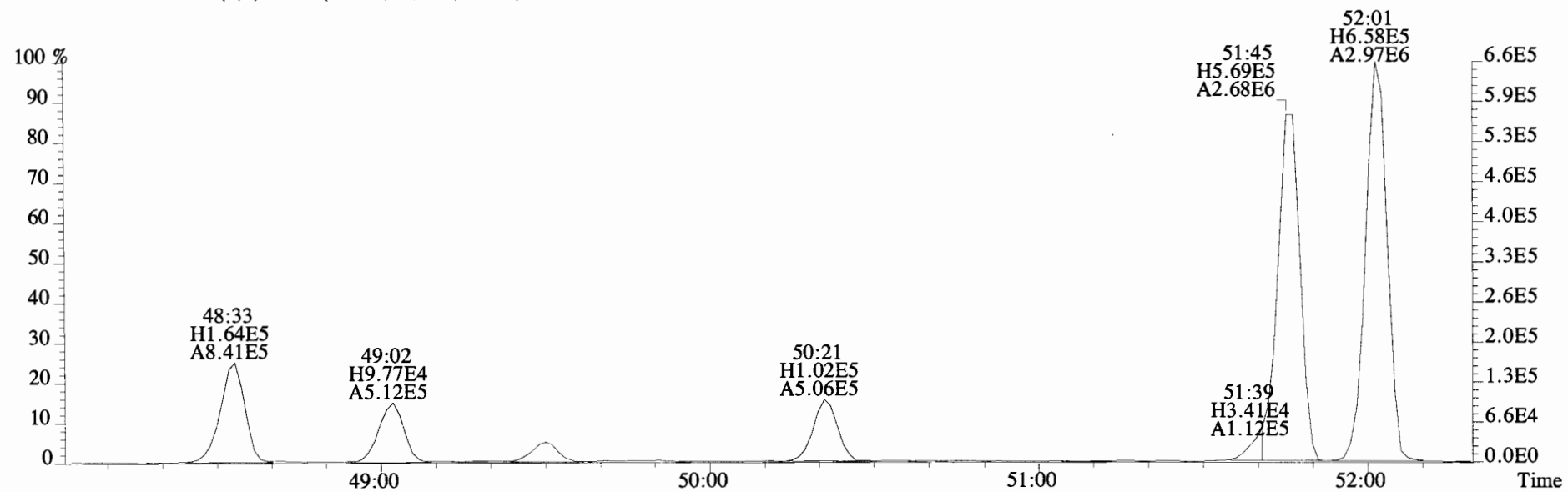
File:140919E1 #1-544 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
427.7635 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1976.0,0.00%,F,F)



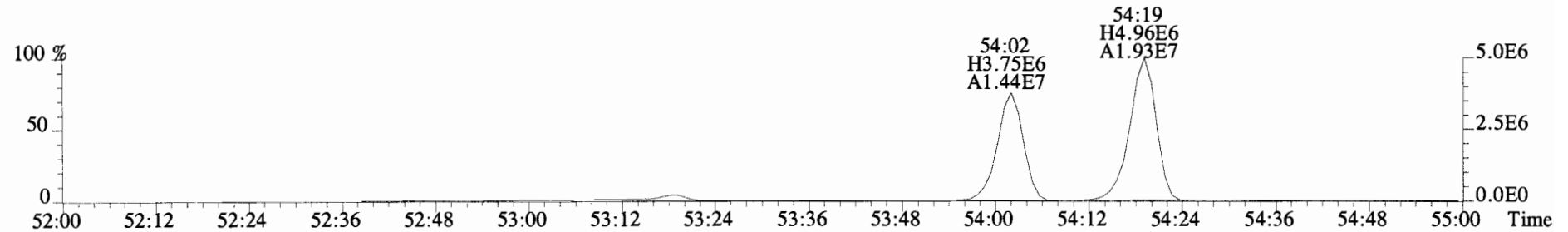
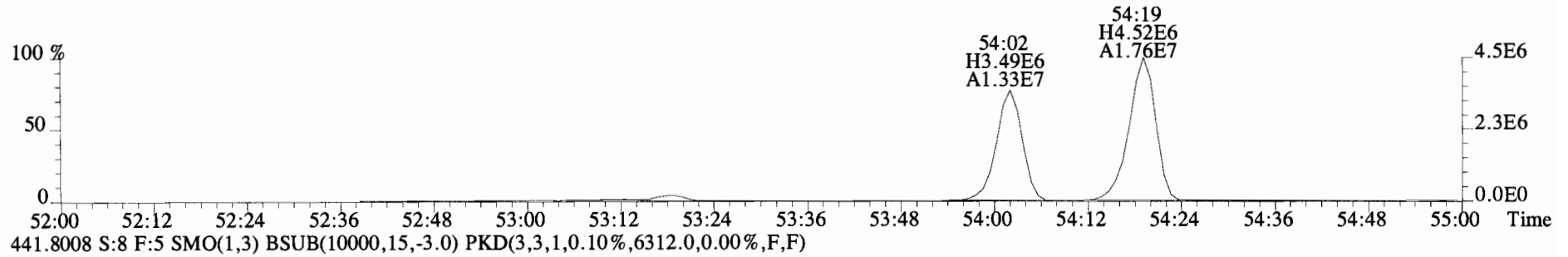
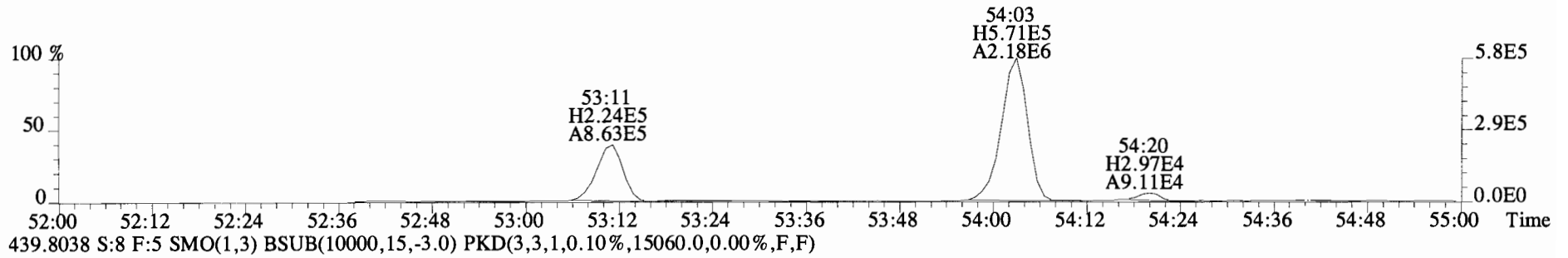
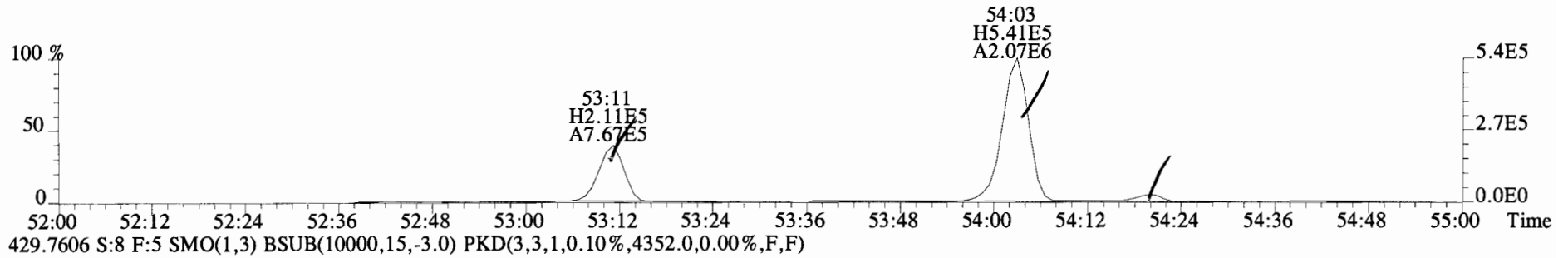
File:140919E1 #1-544 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
 427.7635 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1976.0,0.00%,F,F)



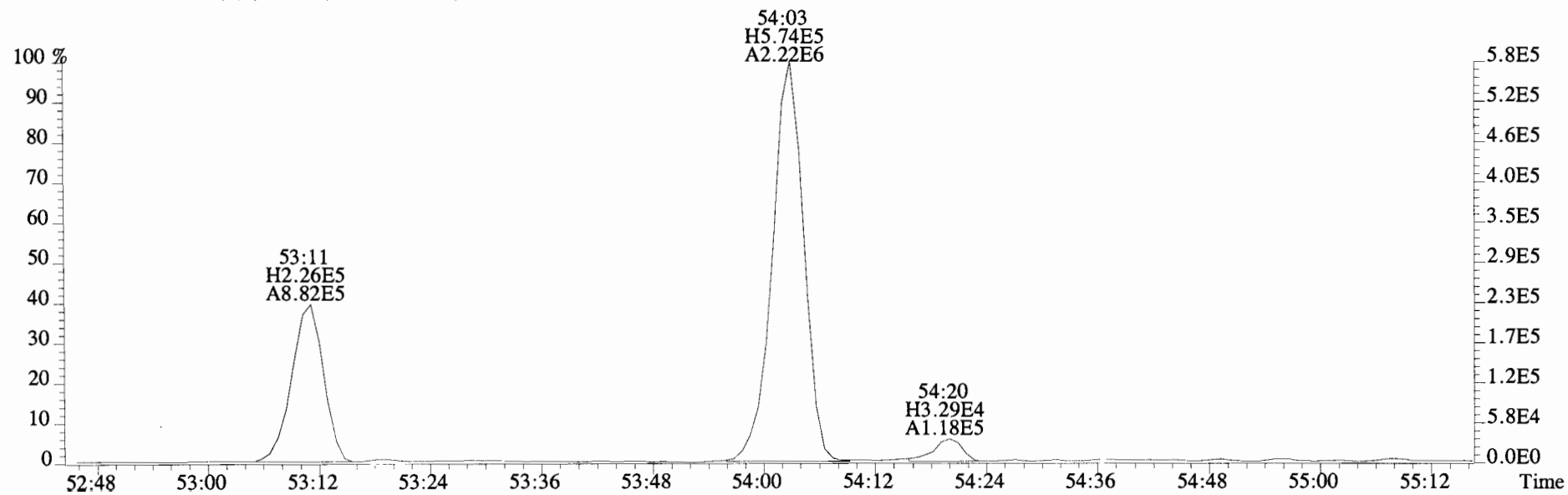
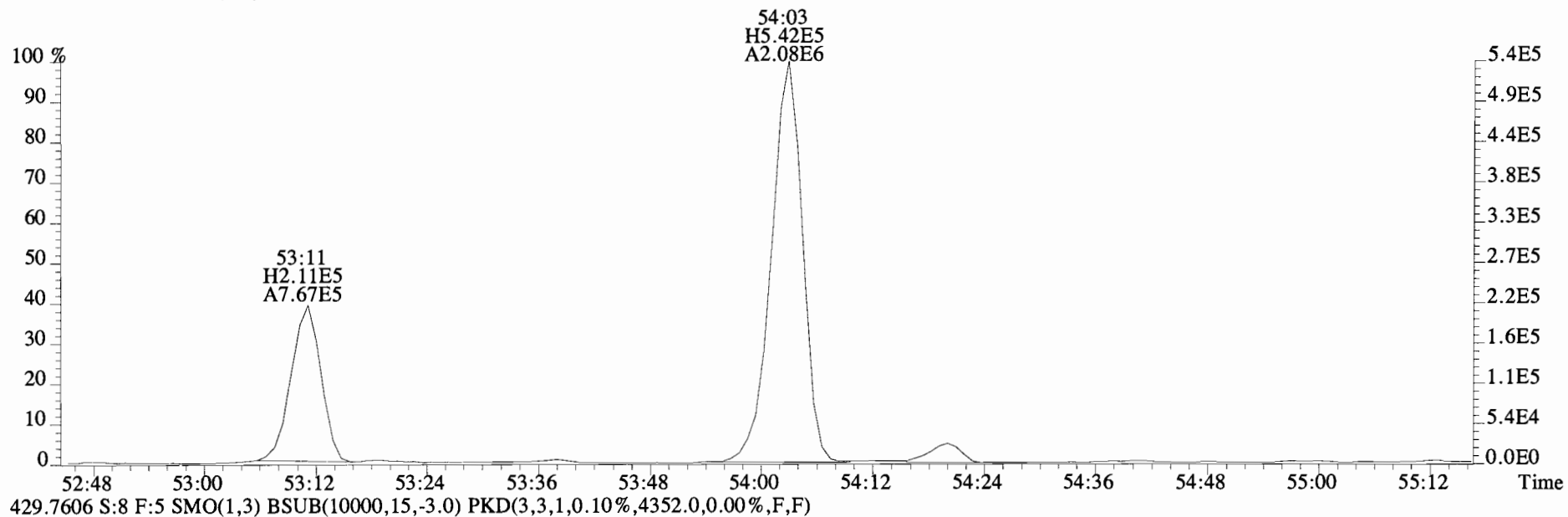
429.7606 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1804.0,0.00%,F,F)



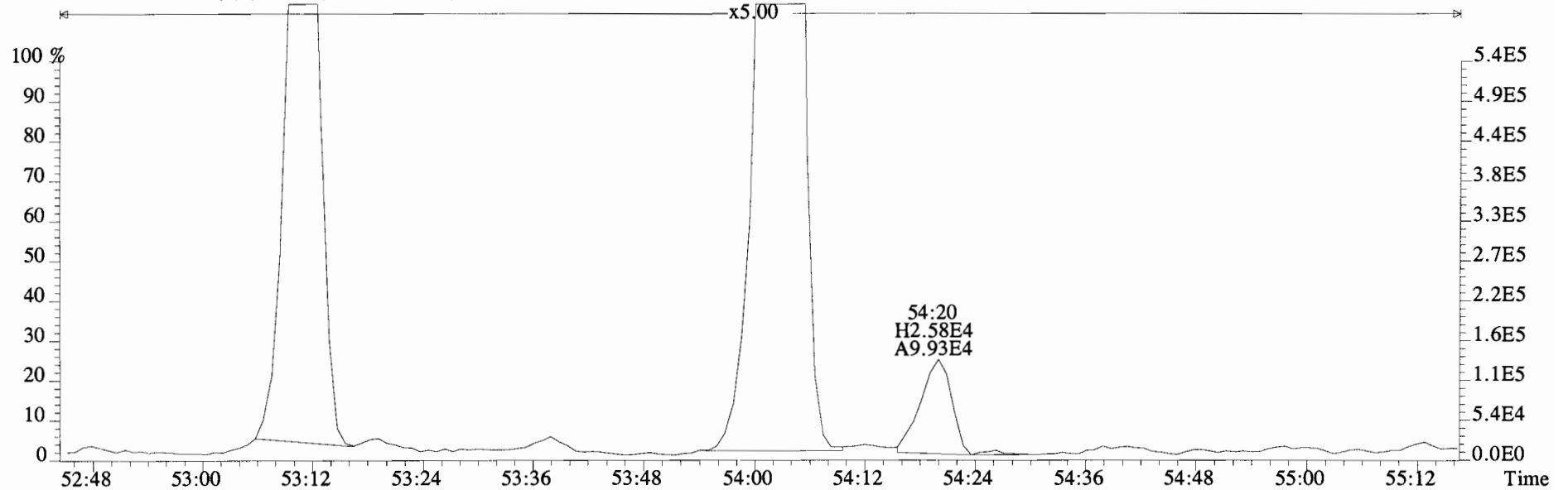
File:140919E1 #1-429 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
427.7635 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3380.0,0.00%,F,F)



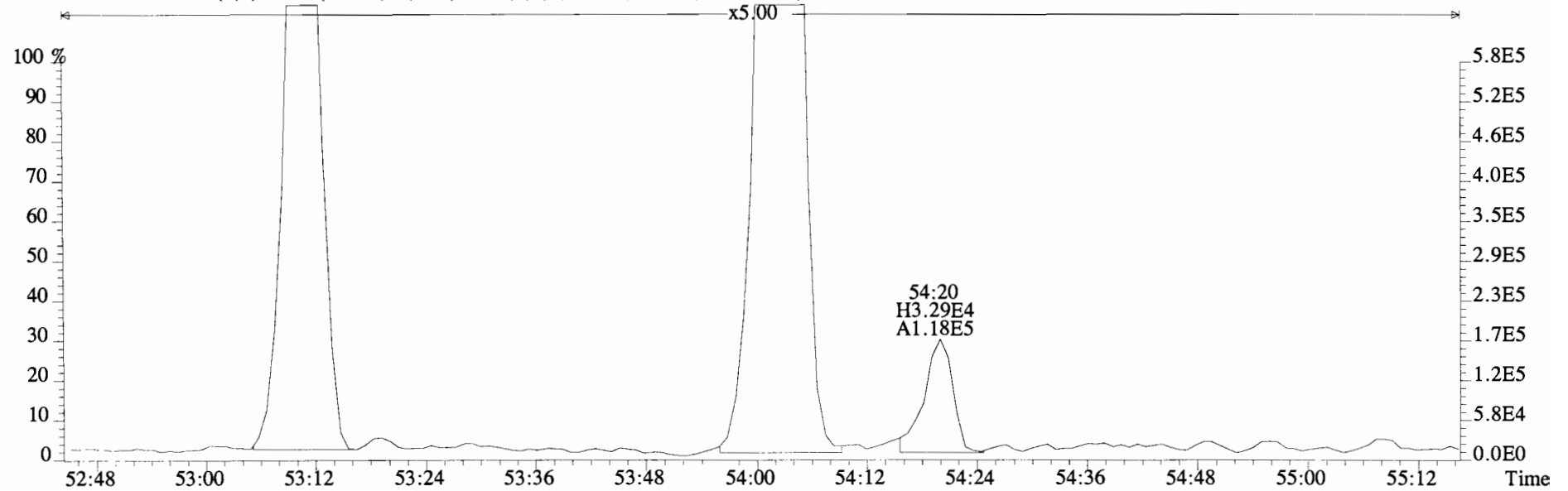
File:140919E1 #1-429 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
427.7635 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3380.0,0.00%,F,F)



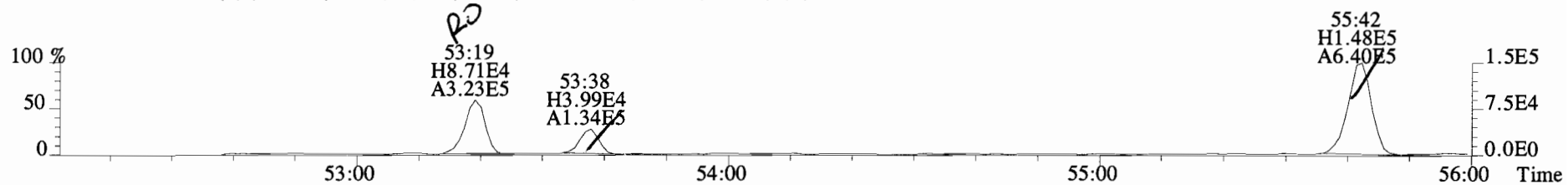
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
427.7635 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3380.0,0.00%,F,F)



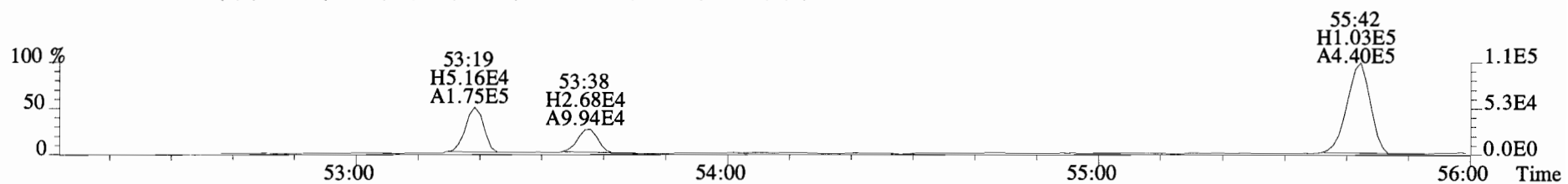
429.7606 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4352.0,0.00%,F,F)



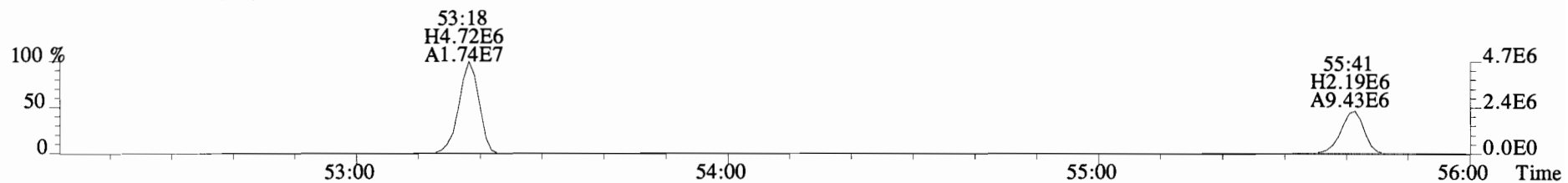
File:140919E1 #1-429 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-W 1 Exp:PCB_ZB1
 463.7216 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2444.0,0.00%,F,F)



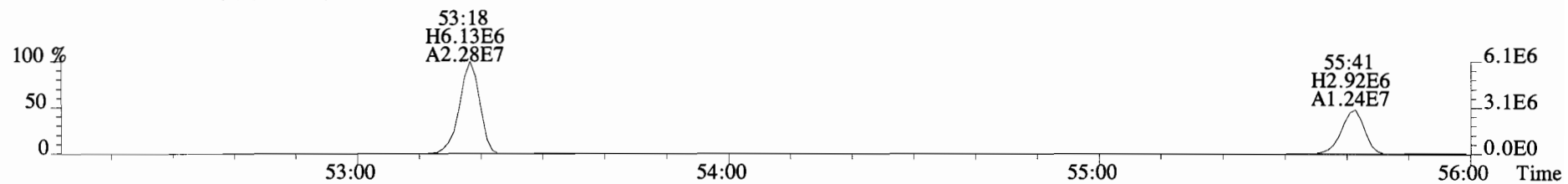
465.7186 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1880.0,0.00%,F,F)



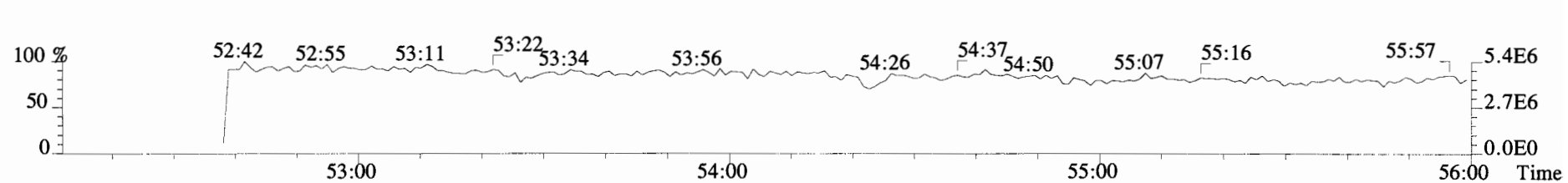
473.7648 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2972.0,0.00%,F,F)



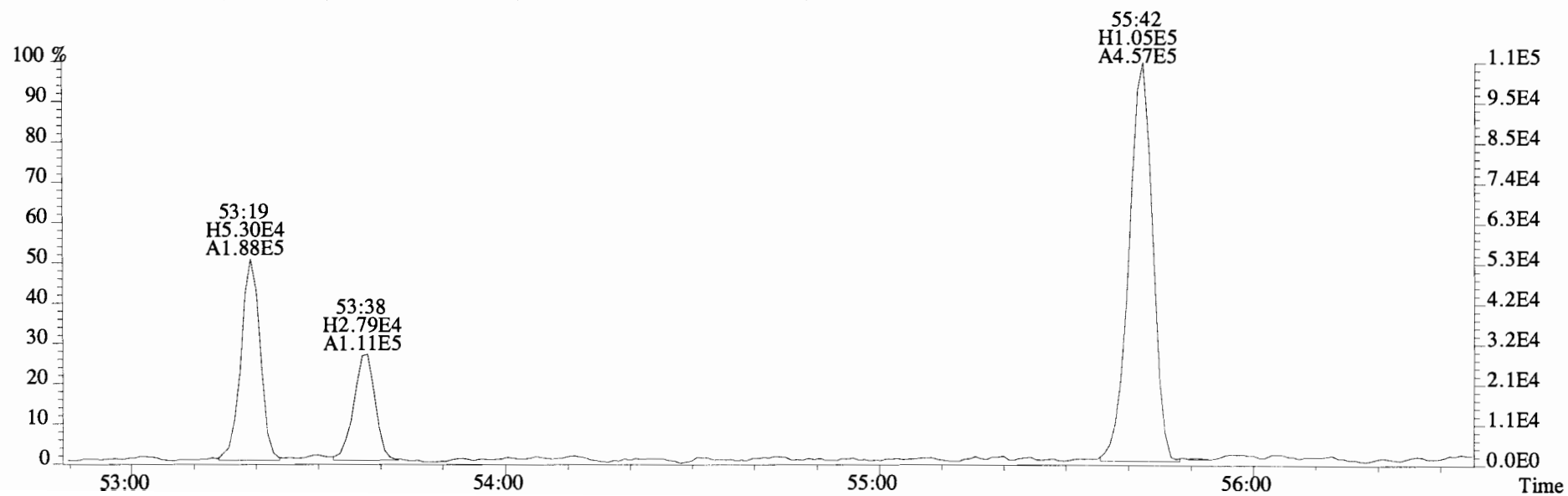
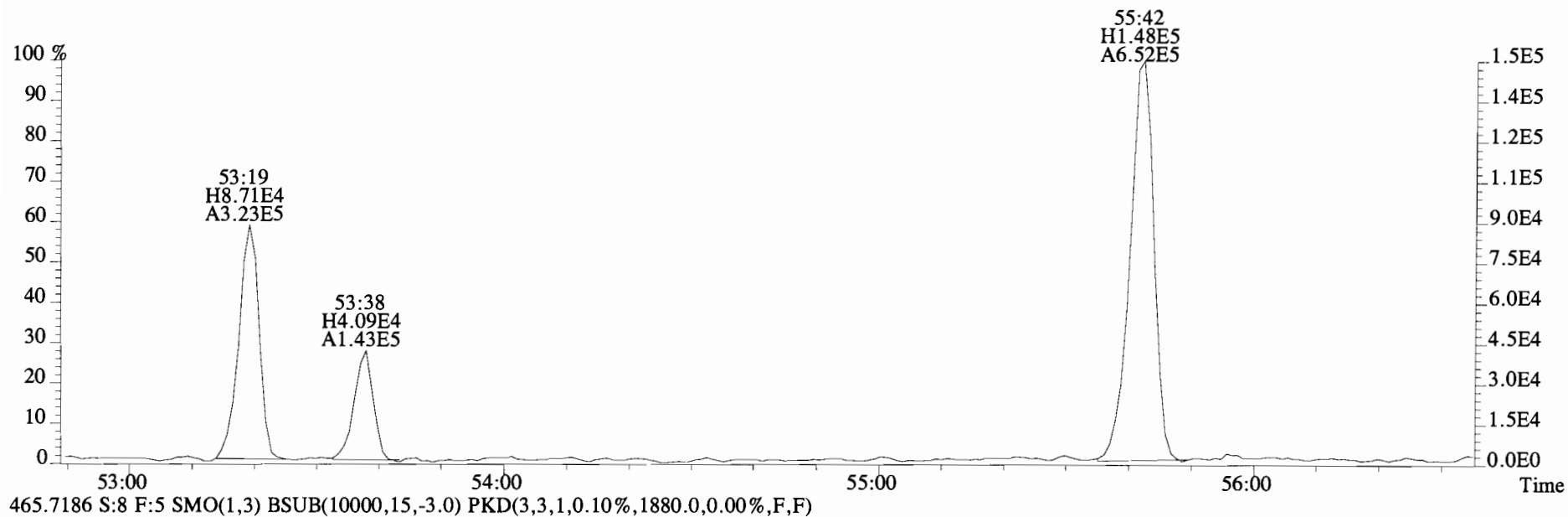
475.7619 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2772.0,0.00%,F,F)



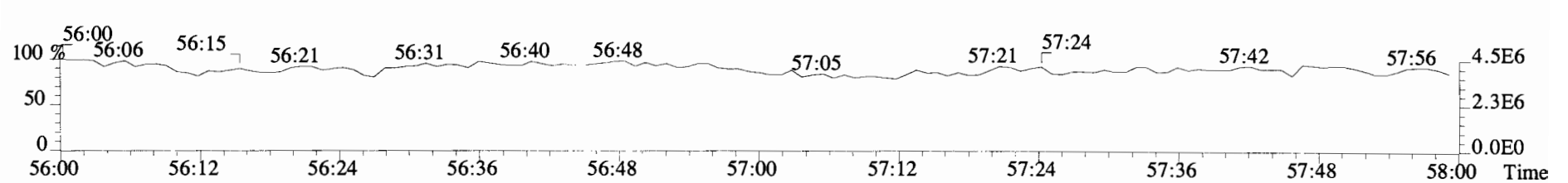
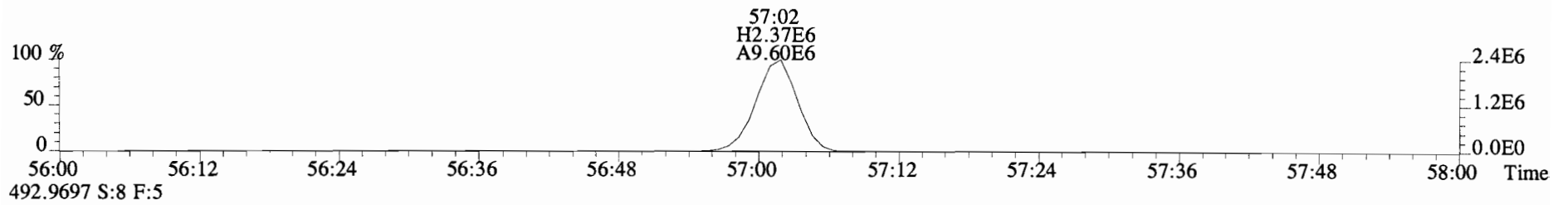
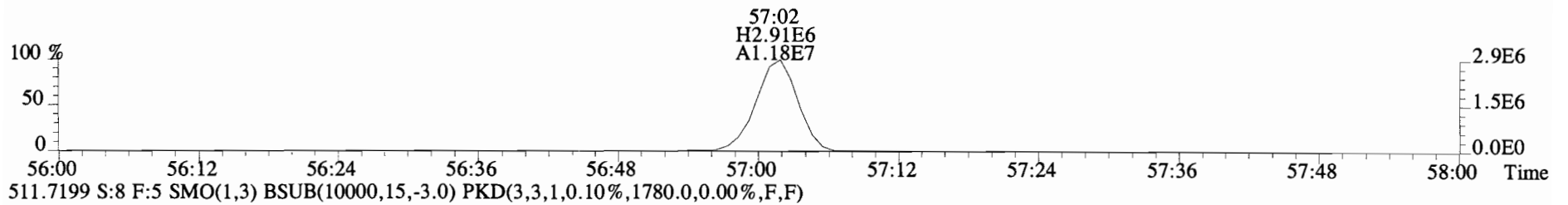
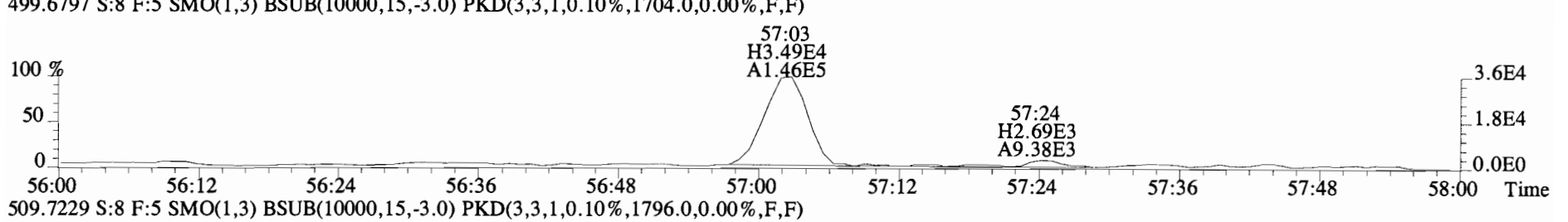
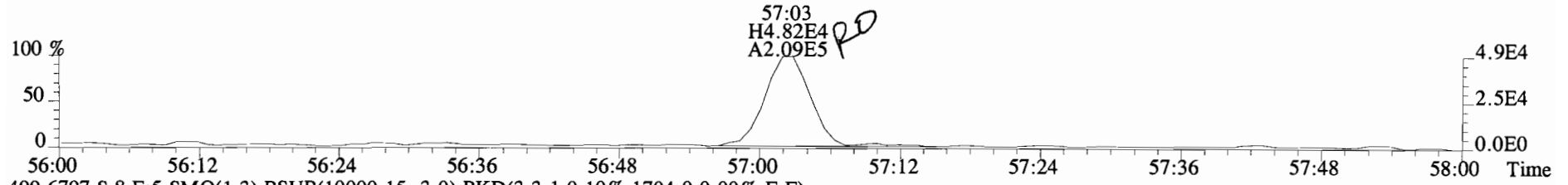
492.9697 S:8 F:5



File:140919E1 #1-429 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-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%,2444.0,0.00%,F,F)



File:140919E1 #1-429 Acq:19-SEP-2014 17:03:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02 PS-OS-01-20140909-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%,1592.0,0.00%,F,F)



Client ID: PS-OS-01-20140909-W
Lab ID: 1400659-02RE1 RI

Filename: 140923E1 S:6 Acq:23-SEP-14 19:22:06
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0123

ConCal: ST140923E1-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-------------|----------|------|---------|------|------|------|-------|-----|----|-------|-------------|-----|
| Hepta | PCB-193 | * | * | n NotFη | 1.65 | * | | * | 2.5 | * | * | 0.999-1.009 | |
| Hepta | PCB-191 | * | * | n NotFη | 1.67 | * | | * | 2.5 | * | * | 1.004-1.014 | |
| Hepta | PCB-170 | * | * | n NotFη | 1.50 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Hepta | PCB-190 | * | * | n NotFη | 2.02 | * | | * | 2.5 | * | * | 0.998-1.008 | |
| Hepta | PCB-189 | 4.26e+05 | 1.02 | y 52:29 | 1.54 | 16.1 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Octa | PCB-202 | * | * | n NotFη | 1.04 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Octa | PCB-201 | * | * | n NotFη | 1.10 | * | | * | 2.5 | * | * | 1.006-1.016 | |
| Octa | PCB-204 | * | * | n NotFη | 0.99 | * | | * | 2.5 | * | * | 1.009-1.019 | |
| Octa | PCB-197 | * | * | n NotFη | 1.07 | * | | * | 2.5 | * | * | 1.015-1.025 | |
| Octa | PCB-200 | * | * | n NotFη | 1.02 | * | | * | 2.5 | * | * | 1.032-1.044 | |
| Octa | PCB-198 | * | * | n NotFη | 0.74 | * | | * | 2.5 | * | * | 1.058-1.068 | |
| Octa | PCB-199 | * | * | n NotFη | 0.73 | * | | * | 2.5 | * | * | 1.060-1.070 | |
| Octa | PCB-196/203 | * | * | n NotFη | 0.77 | * | | * | 2.5 | * | * | 1.066-1.076 | |
| Octa | PCB-195 | * | * | n NotFη | 1.20 | * | | * | 2.5 | * | * | 0.979-0.989 | |
| Octa | PCB-194 | * | * | n NotFη | 1.25 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Octa | PCB-205 | * | * | n NotFη | 1.41 | * | | * | 2.5 | * | * | 1.001-1.011 | |
| Nona | PCB-208 | * | * | n NotFη | 0.96 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Nona | PCB-207 | * | * | n NotFη | 0.92 | * | | * | 2.5 | * | * | 1.001-1.011 | |
| Nona | PCB-206 | * | * | n NotFη | 1.03 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Deca | PCB-209 | * | * | n NotFη | 1.18 | * | | * | 2.5 | * | * | 0.995-1.005 | |

Analyst: DMS

Date: 9/24/14

[Handwritten signature]
9/24/14

| Name | Resp | RA | RT | RRF | Conc |
|-----------------|----------|--------|--------|------|---------------|
| Total Mono-PCB | * | * n | NotFnd | 1.22 | * |
| Total Di-PCB | * | * n | NotFnd | 1.21 | * |
| Total Tri-PCB | * | * n | NotFnd | 1.16 | * |
| Total Tri-PCB | * | * n | NotFnd | 1.35 | * Sum:0.00000 |
| 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 | 4.26e+05 | 1.02 y | 52:29 | 1.27 | 16.1464 |
| 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:16.1463980000

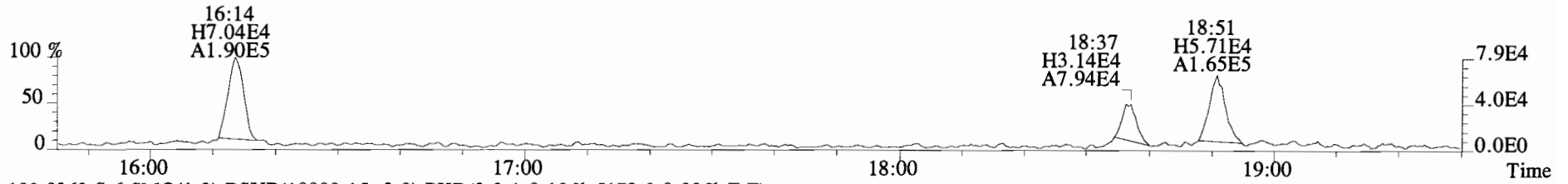
Integrations

by

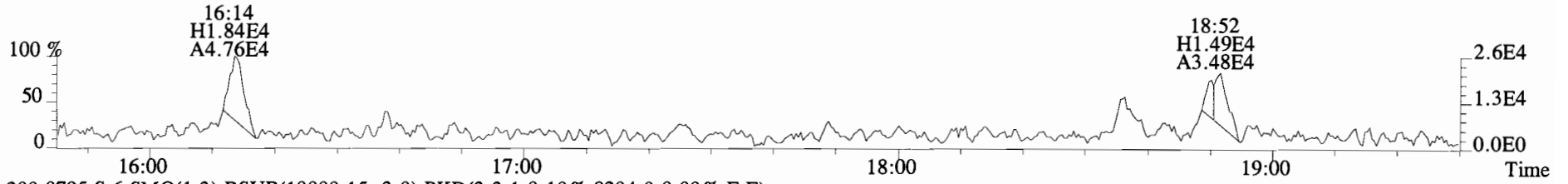
Analyst: DMSDate: 9/24/14

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec | CRS vs. RS | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec |
|-------------|----------|------|-----|------|-------|-------|-------------|------|------|----------------------|-------------|----------|------|-----|------|-------|-------|-------------|------|------|
| 13C-PCB-1 | 1.45e+08 | 3.38 | y | 0.89 | 16:12 | 0.622 | 0.622-0.628 | 1470 | 74.3 | | 13C-PCB-79 | 1.89e+08 | 0.78 | y | 1.01 | 37:57 | 1.028 | 1.023-1.033 | 1960 | 99.3 |
| 13C-PCB-3 | 1.36e+08 | 3.46 | y | 0.93 | 18:50 | 0.723 | 0.721-0.729 | 1320 | 66.8 | | 13C-PCB-178 | 5.90e+07 | 0.47 | y | 0.63 | 45:47 | 0.985 | 0.979-0.989 | 1880 | 95.4 |
| 13C-PCB-4 | 8.72e+07 | 1.57 | y | 0.55 | 20:10 | 0.774 | 0.772-0.780 | 1440 | 72.7 | | | | | | | | | | | |
| 13C-PCB-9 | 1.36e+08 | 1.58 | y | 0.83 | 21:58 | 0.843 | 0.840-0.848 | 1480 | 74.9 | | | | | | | | | | | |
| 13C-PCB-11 | 1.76e+08 | 1.56 | y | 0.94 | 25:21 | 0.973 | 0.968-0.978 | 1690 | 85.6 | PS vs. IS | | | | | | | | | | |
| 13C-PCB-19 | 8.61e+07 | 1.12 | y | 0.53 | 24:20 | 0.934 | 0.929-0.939 | 1460 | 73.8 | | 13C-PCB-79 | 1.89e+08 | 0.78 | y | 1.20 | 37:57 | 0.969 | 0.963-0.973 | 2390 | 121 |
| 13C-PCB-28 | 1.32e+08 | 1.05 | y | 0.89 | 29:12 | 1.003 | 0.999-1.009 | 1530 | 77.3 | | 13C-PCB-178 | 5.90e+07 | 0.47 | y | 0.94 | 45:47 | 0.925 | 0.920-0.930 | 2710 | 137 |
| 13C-PCB-32 | 1.36e+08 | 1.12 | y | 0.81 | 27:15 | 1.046 | 1.041-1.051 | 1500 | 76.1 | | | | | | | | | | | |
| 13C-PCB-37 | 1.38e+08 | 1.03 | y | 0.83 | 33:13 | 1.141 | 1.131-1.143 | 1700 | 86.0 | | | | | | | | | | | |
| 13C-PCB-47 | 1.19e+08 | 0.78 | y | 0.74 | 32:10 | 0.872 | 0.867-0.875 | 1670 | 84.6 | | | | | | | | | | | |
| 13C-PCB-52 | 1.12e+08 | 0.78 | y | 0.71 | 31:38 | 0.857 | 0.853-0.861 | 1650 | 83.3 | | | | | | | | | | | |
| 13C-PCB-54 | 1.23e+08 | 0.80 | y | 0.85 | 28:05 | 0.761 | 0.758-0.766 | 1510 | 76.6 | | | | | | | | | | | |
| 13C-PCB-70 | 1.56e+08 | 0.79 | y | 0.94 | 35:39 | 0.966 | 0.961-0.971 | 1720 | 87.2 | | | | | | | | | | | |
| 13C-PCB-77 | 1.33e+08 | 0.79 | y | 0.89 | 39:47 | 1.078 | 1.073-1.083 | 1560 | 79.0 | | | | | | | | | | | |
| 13C-PCB-80 | 1.57e+08 | 0.80 | y | 0.96 | 36:04 | 0.977 | 0.972-0.982 | 1700 | 86.2 | | | | | | | | | | | |
| 13C-PCB-81 | 1.30e+08 | 0.78 | y | 0.84 | 39:10 | 1.061 | 1.057-1.067 | 1620 | 82.0 | | | | | | | | | | | |
| 13C-PCB-95 | 6.14e+07 | 1.59 | y | 0.74 | 35:57 | 0.913 | 0.908-0.918 | 1670 | 84.5 | RS | | | | | | | | | | |
| 13C-PCB-97 | 5.77e+07 | 1.64 | y | 0.69 | 38:56 | 0.989 | 0.984-0.994 | 1690 | 85.5 | | Name | Resp | RA | RRF | RT | Conc | | | | |
| 13C-PCB-101 | 6.59e+07 | 1.61 | y | 0.79 | 37:38 | 0.956 | 0.951-0.961 | 1690 | 85.8 | | 13C-PCB-15 | 2.19e+08 | 1.57 | y | 1.00 | 26:03 | 1980 | | | |
| 13C-PCB-104 | 8.08e+07 | 1.62 | y | 1.00 | 32:52 | 0.835 | 0.829-0.837 | 1640 | 83.0 | | 13C-PCB-31 | 1.93e+08 | 1.04 | y | 1.00 | 29:06 | 1980 | | | |
| 13C-PCB-105 | 1.07e+08 | 1.59 | y | 1.24 | 43:13 | 0.929 | 0.924-0.934 | 1740 | 88.2 | | 13C-PCB-60 | 1.89e+08 | 0.79 | y | 1.00 | 36:54 | 1980 | | | |
| 13C-PCB-114 | 1.04e+08 | 1.62 | y | 1.21 | 42:20 | 0.910 | 0.905-0.915 | 1740 | 88.1 | | 13C-PCB-111 | 9.78e+07 | 1.61 | y | 1.00 | 39:22 | 1980 | | | |
| 13C-PCB-118 | 7.03e+07 | 1.62 | y | 0.98 | 41:41 | 1.059 | 1.054-1.064 | 1440 | 73.0 | | 13C-PCB-128 | 9.81e+07 | 1.27 | y | 1.00 | 46:30 | 1980 | | | |
| 13C-PCB-123 | 7.04e+07 | 1.59 | y | 0.95 | 41:30 | 1.054 | 1.049-1.059 | 1500 | 75.7 | | 13C-PCB-205 | 5.24e+07 | 0.90 | y | 1.00 | 54:16 | 1980 | | | |
| 13C-PCB-126 | 9.45e+07 | 1.60 | y | 1.16 | 45:27 | 0.977 | 0.972-0.982 | 1640 | 82.8 | | | | | | | | | | | |
| 13C-PCB-127 | 1.18e+08 | 1.61 | y | 1.34 | 43:33 | 0.937 | 0.931-0.941 | 1760 | 89.3 | | | | | | | | | | | |
| 13C-PCB-138 | 9.28e+07 | 1.29 | y | 1.04 | 44:57 | 0.967 | 0.961-0.971 | 1790 | 90.6 | | | | | | | | | | | |
| 13C-PCB-141 | 9.41e+07 | 1.28 | y | 1.07 | 44:06 | 0.948 | 0.943-0.953 | 1770 | 89.4 | | | | | | | | | | | |
| 13C-PCB-153 | 9.85e+07 | 1.24 | y | 1.11 | 43:22 | 0.933 | 0.927-0.937 | 1780 | 90.2 | | | | | | | | | | | |
| 13C-PCB-155 | 4.93e+07 | 1.32 | y | 0.83 | 37:11 | 0.945 | 0.939-0.949 | 1200 | 60.6 | | | | | | | | | | | |
| 13C-PCB-156 | 9.56e+07 | 1.26 | y | 1.24 | 48:13 | 1.037 | 1.032-1.042 | 1550 | 78.2 | | | | | | | | | | | |
| 13C-PCB-157 | 1.03e+08 | 1.32 | y | 1.31 | 48:29 | 1.043 | 1.037-1.047 | 1580 | 80.2 | | | | | | | | | | | |
| 13C-PCB-159 | 9.97e+07 | 1.27 | y | 1.20 | 46:15 | 0.995 | 0.989-0.999 | 1670 | 84.7 | | | | | | | | | | | |
| 13C-PCB-167 | 1.05e+08 | 1.27 | y | 1.32 | 46:56 | 1.009 | 1.004-1.014 | 1600 | 81.1 | | | | | | | | | | | |
| 13C-PCB-169 | 7.42e+07 | 1.26 | y | 1.22 | 50:38 | 1.089 | 1.082-1.092 | 1230 | 62.2 | | | | | | | | | | | |
| 13C-PCB-170 | 3.26e+07 | 0.47 | y | 0.54 | 50:59 | 1.096 | 1.089-1.101 | 1230 | 62.1 | | | | | | | | | | | |
| 13C-PCB-180 | 4.60e+07 | 0.48 | y | 0.67 | 49:31 | 1.065 | 1.059-1.069 | 1380 | 69.6 | | | | | | | | | | | |
| 13C-PCB-188 | 7.23e+07 | 0.47 | y | 0.94 | 42:59 | 0.924 | 0.919-0.929 | 1560 | 78.8 | | | | | | | | | | | |
| 13C-PCB-189 | 3.38e+07 | 0.46 | y | 0.72 | 52:29 | 1.129 | 1.120-1.132 | 950 | 48.1 | | | | | | | | | | | |
| 13C-PCB-194 | 3.83e+07 | 0.90 | y | 0.81 | 53:59 | 0.995 | 0.990-1.000 | 1780 | 90.3 | | | | | | | | | | | |
| 13C-PCB-202 | 4.14e+07 | 0.92 | y | 0.83 | 48:26 | 1.042 | 1.036-1.046 | 1000 | 50.7 | Analyst: <i>DMS</i> | | | | | | | | | | |
| 13C-PCB-206 | 2.75e+07 | 0.79 | y | 0.66 | 55:38 | 1.025 | 1.021-1.031 | 1580 | 79.8 | | | | | | | | | | | |
| 13C-PCB-208 | 5.23e+07 | 0.77 | y | 1.12 | 53:15 | 0.981 | 0.976-0.986 | 1760 | 88.9 | Date: <i>9/24/14</i> | | | | | | | | | | |
| 13C-PCB-209 | 2.59e+07 | 1.19 | y | 0.61 | 56:58 | 1.050 | 1.044-1.054 | 1590 | 80.6 | | | | | | | | | | | |

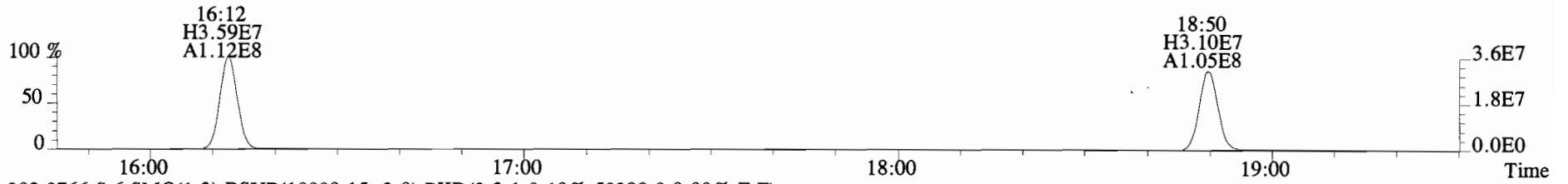
File:140923E1 #1-728 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
188.0393 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5104.0,0.00%,F,F)



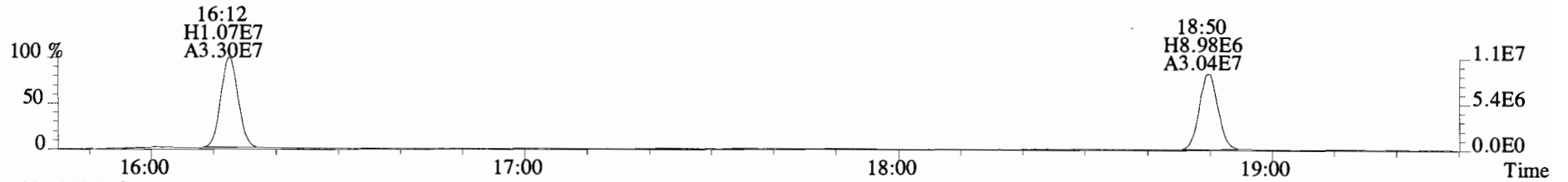
190.0363 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5172.0,0.00%,F,F)



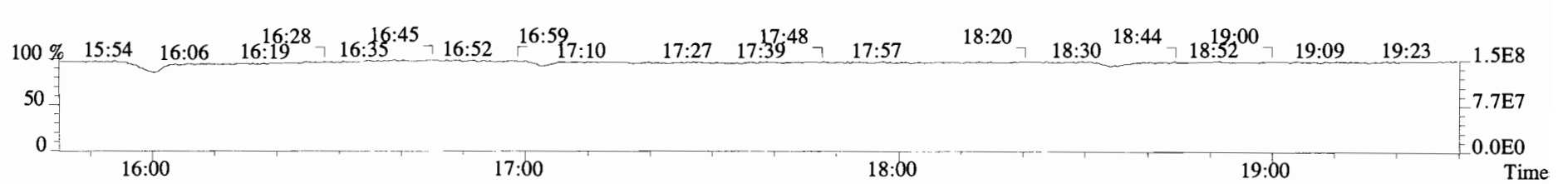
200.0795 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8204.0,0.00%,F,F)



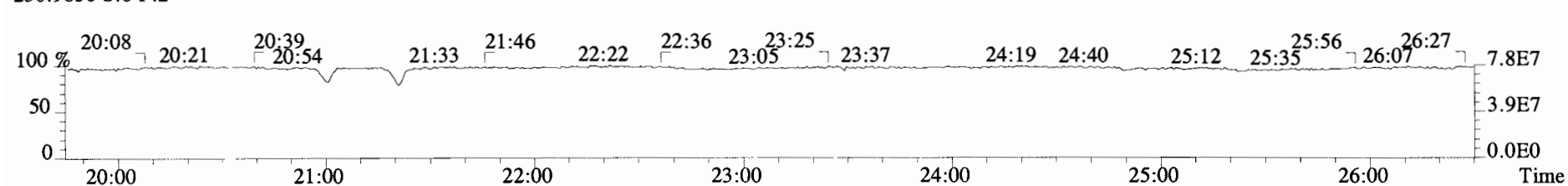
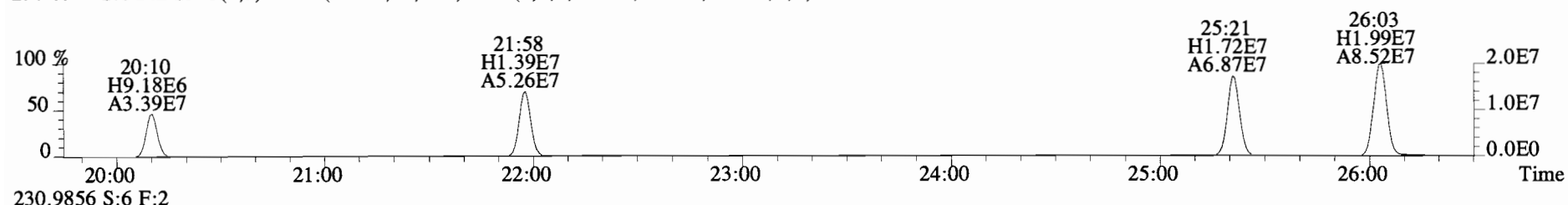
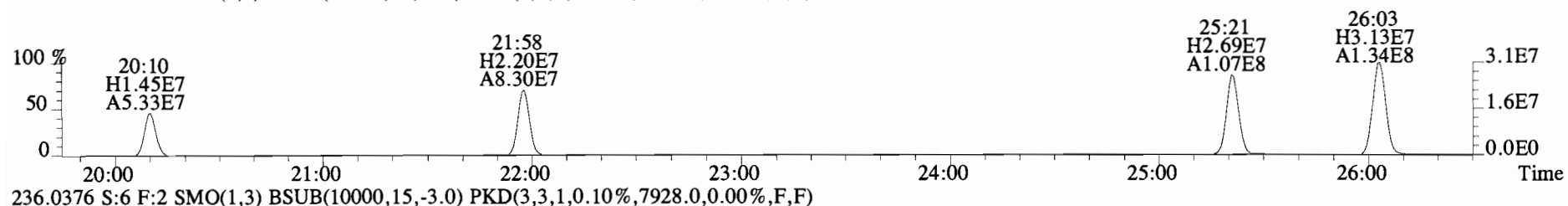
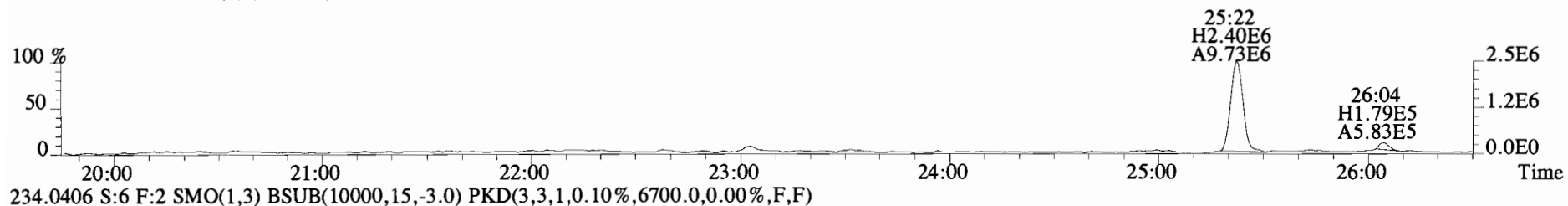
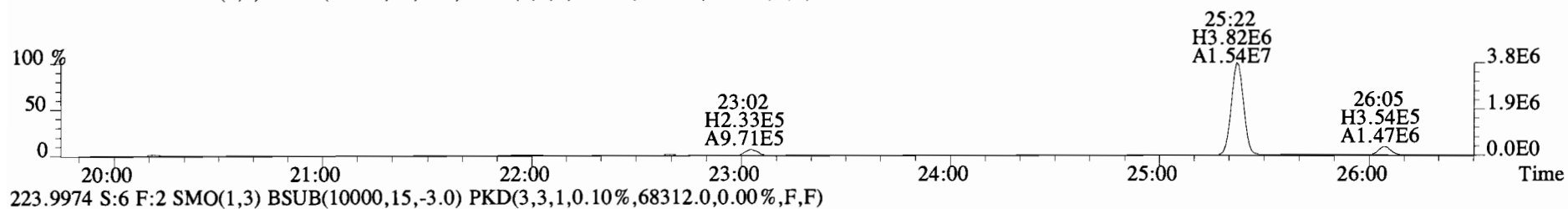
202.0766 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,50388.0,0.00%,F,F)



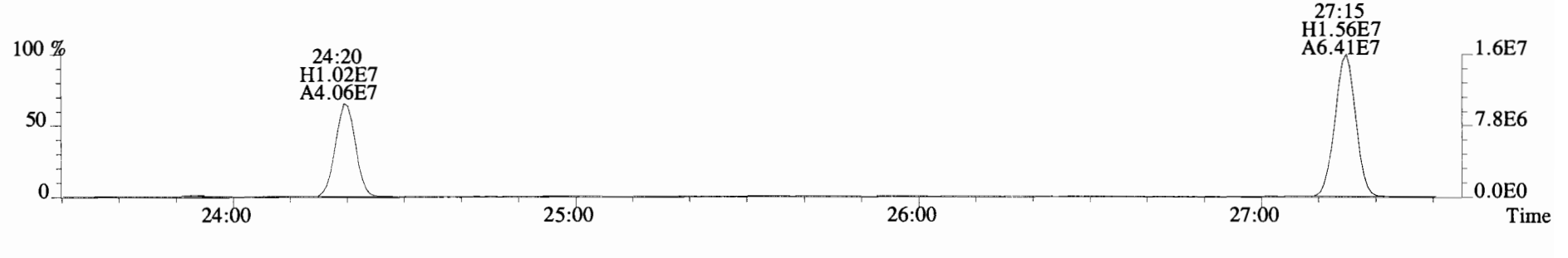
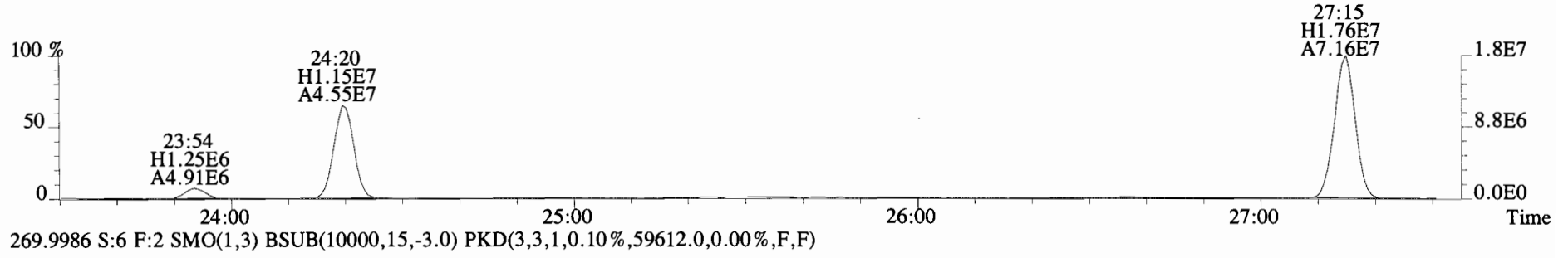
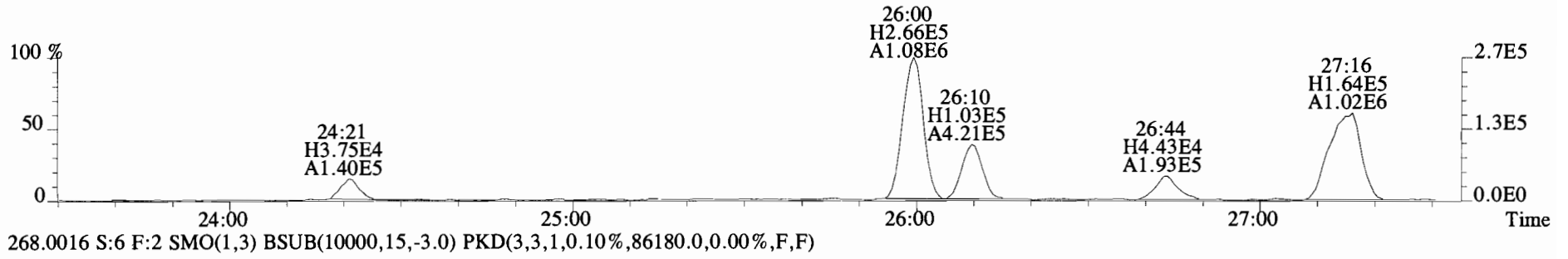
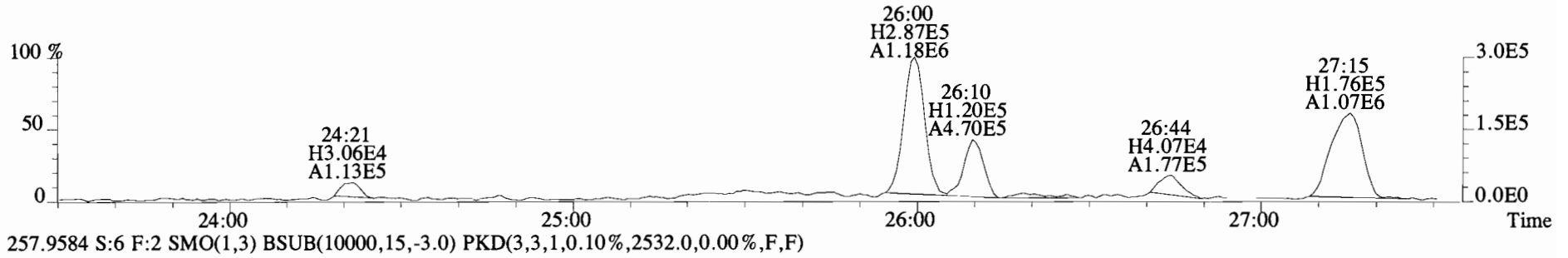
180.9880 S:6



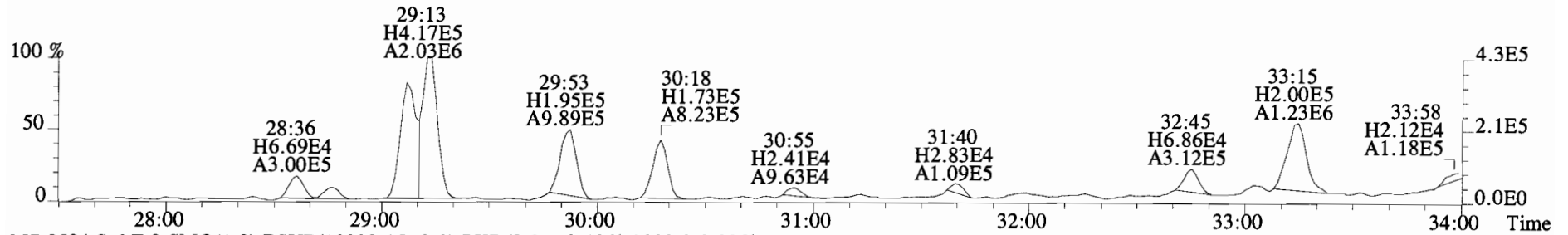
File:140923E1 #1-758 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6852.0,0.00%,F,F)



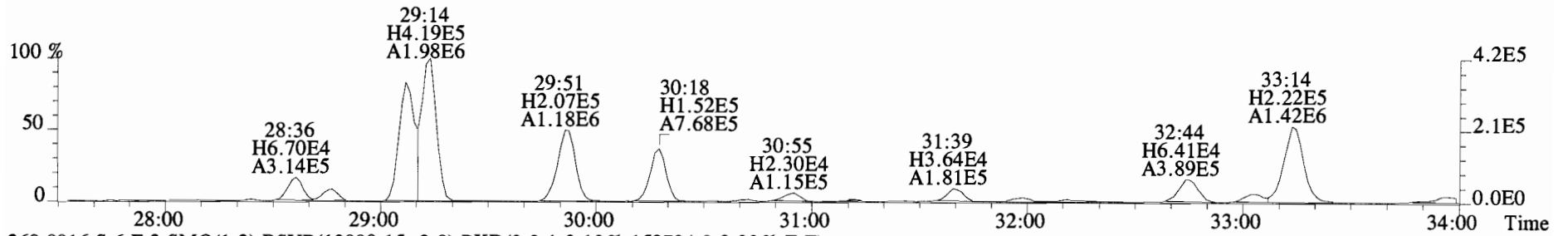
File:140923E1 #1-758 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
255.9613 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8364.0,0.00%,F,F)



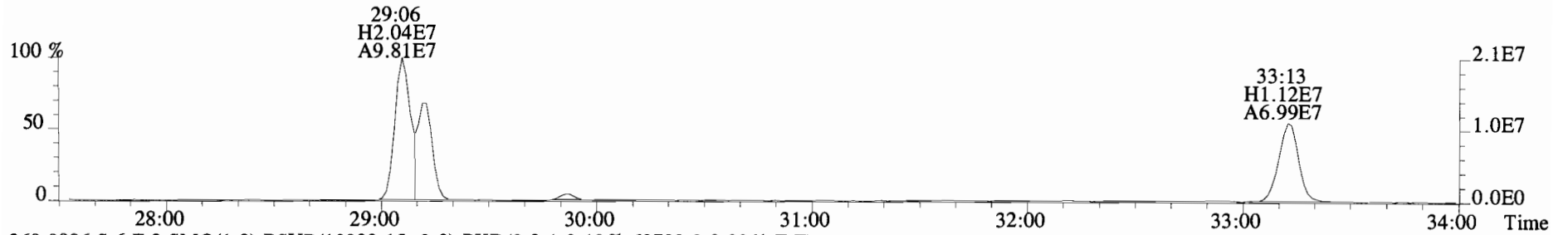
File:140923E1 #1-761 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
255.9613 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15316.0,0.00%,F,F)



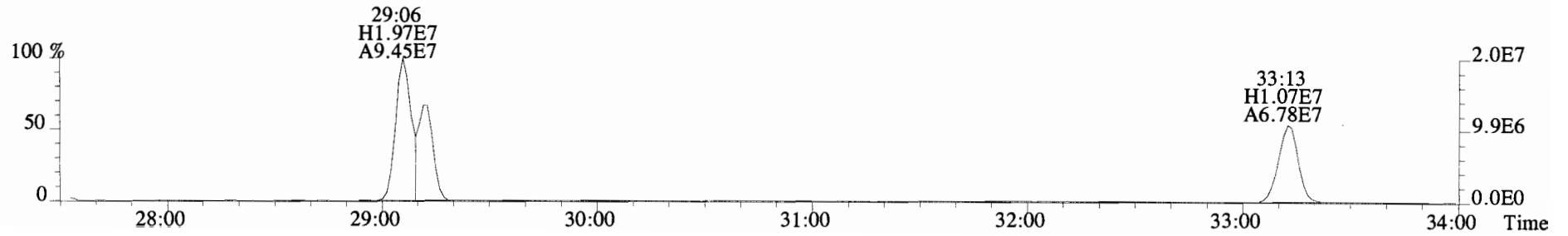
257.9584 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3008.0,0.00%,F,F)



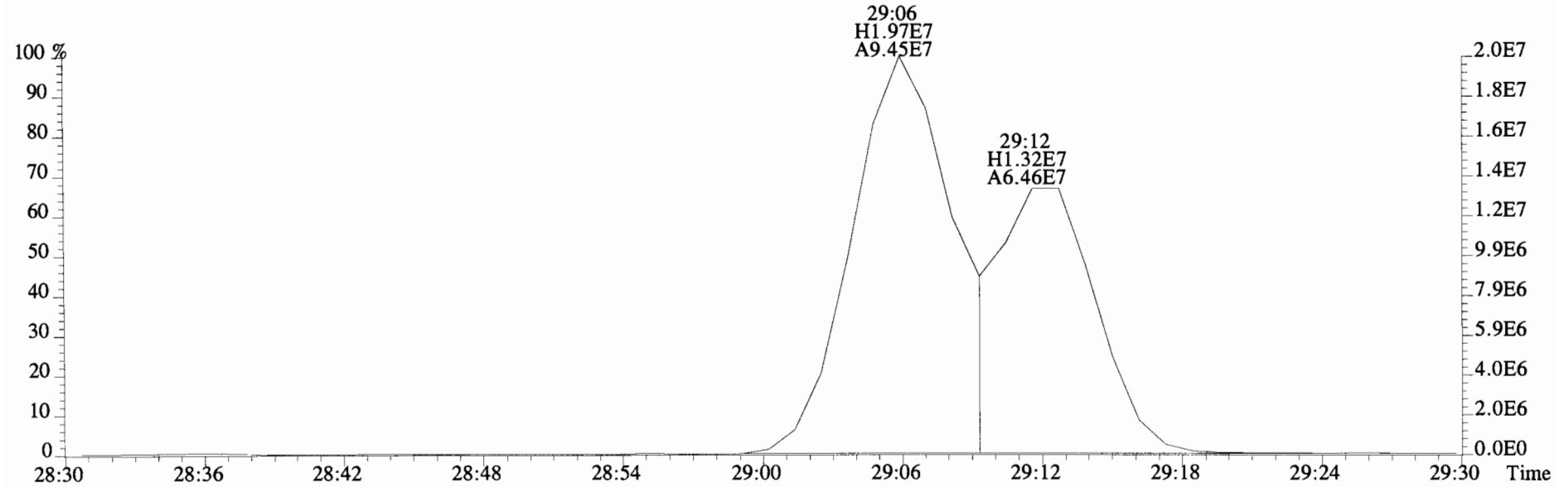
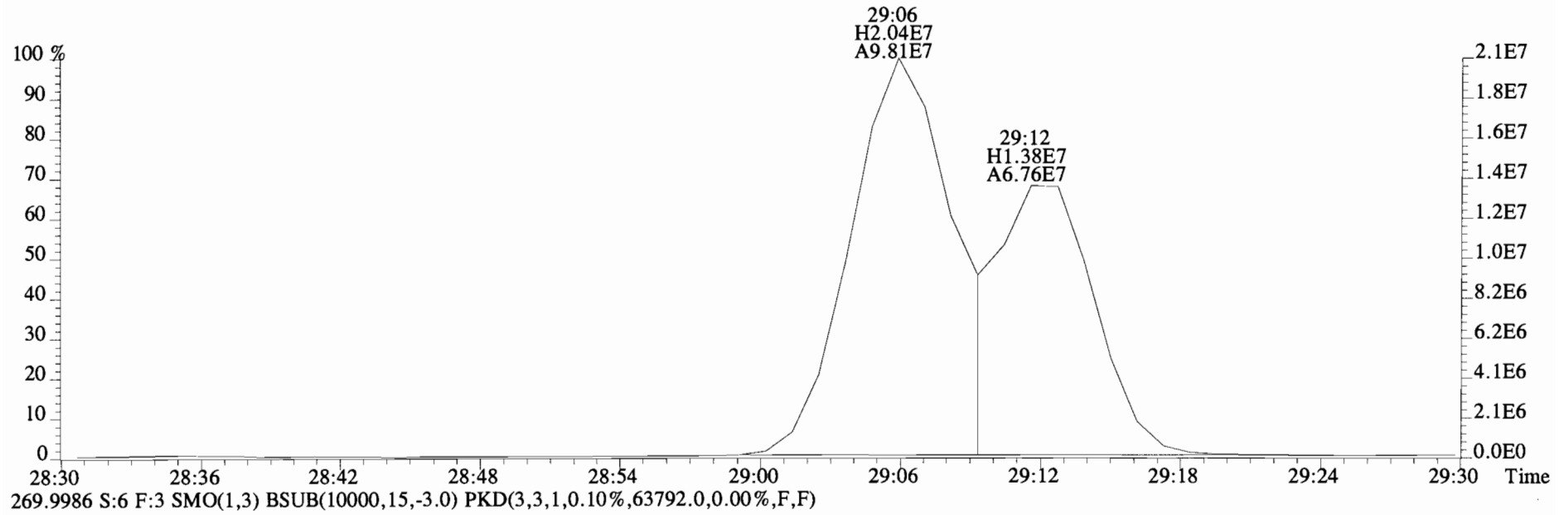
268.0016 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,153704.0,0.00%,F,F)



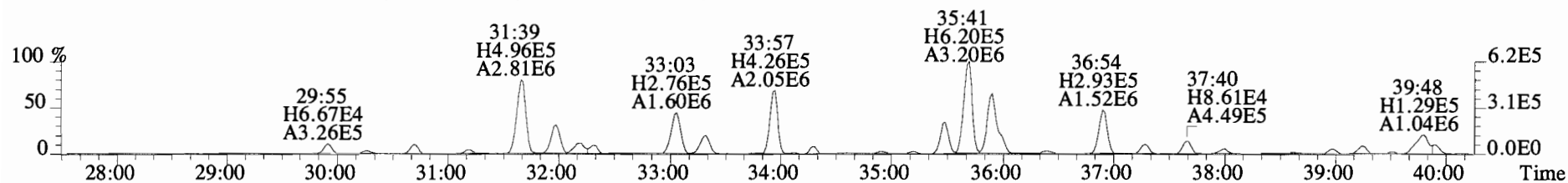
269.9986 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,63792.0,0.00%,F,F)



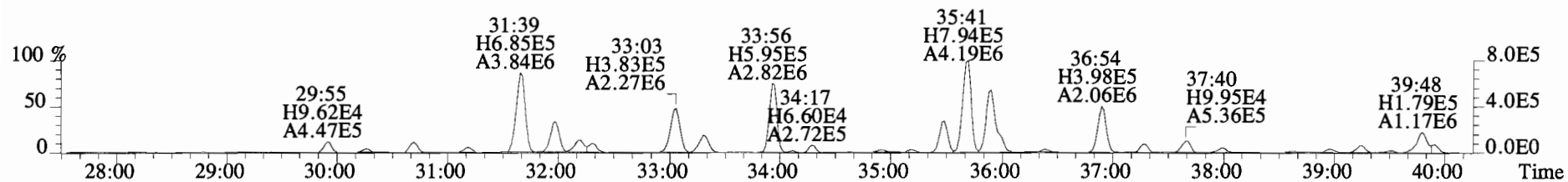
File:140923E1 #1-761 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
268.0016 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,153704.0,0.00%,F,F)



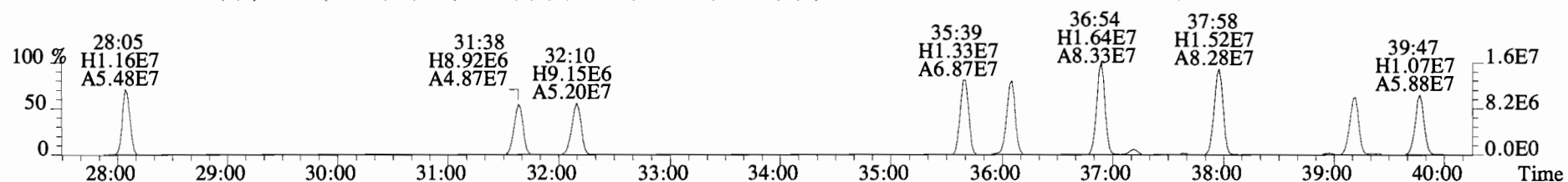
File:140923E1 #1-761 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2968.0,0.00%,F,F)



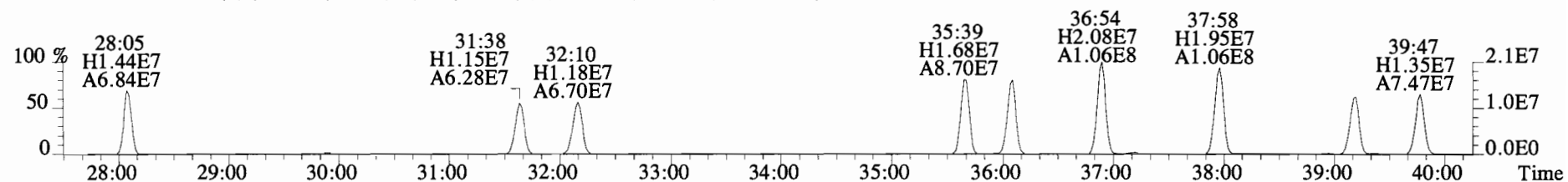
291.9194 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2868.0,0.00%,F,F)



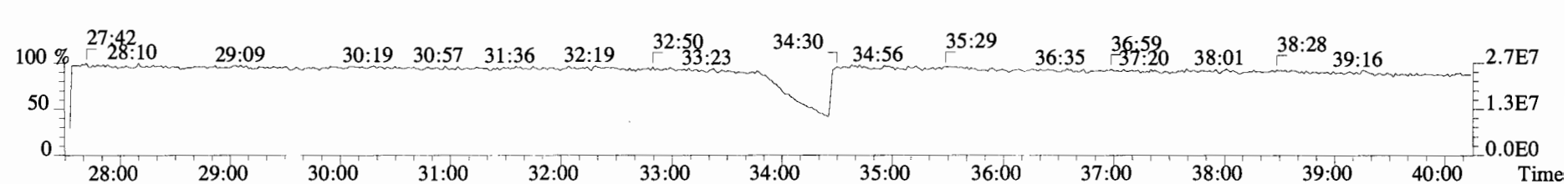
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15988.0,0.00%,F,F)



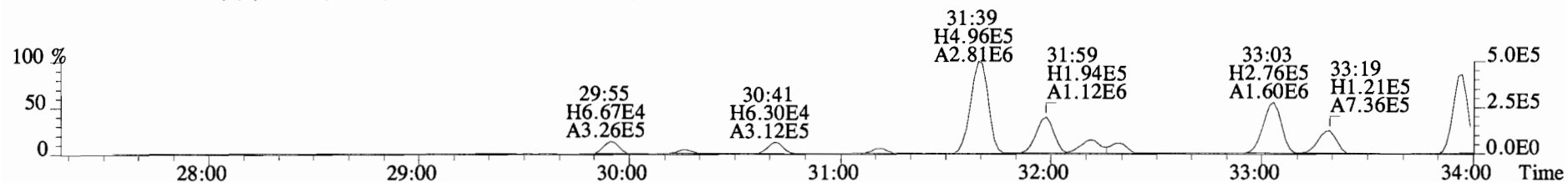
303.9597 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12756.0,0.00%,F,F)



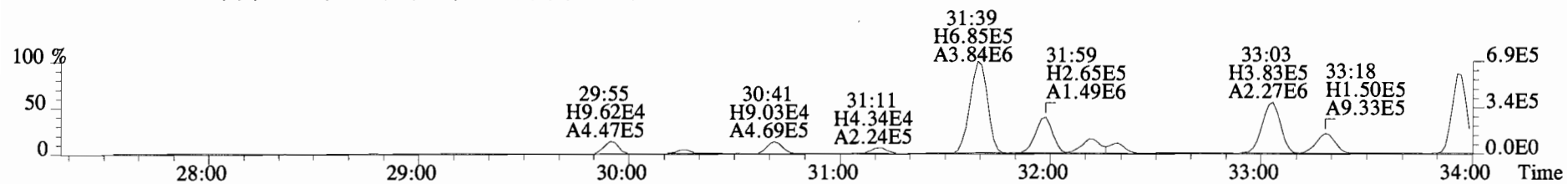
330.9792 S:6 F:3



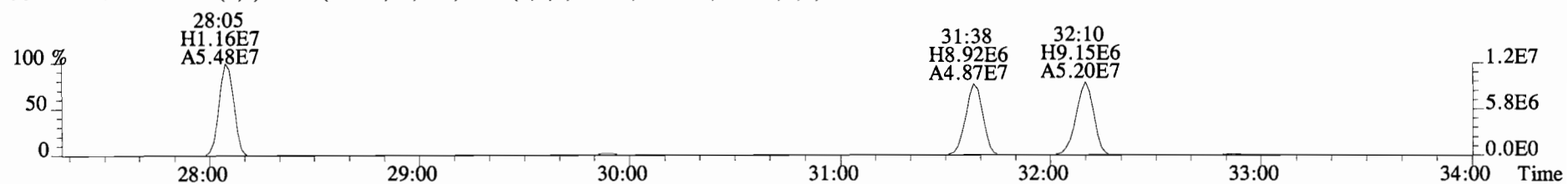
File:140923E1 #1-761 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2968.0,0.00%,F,F)



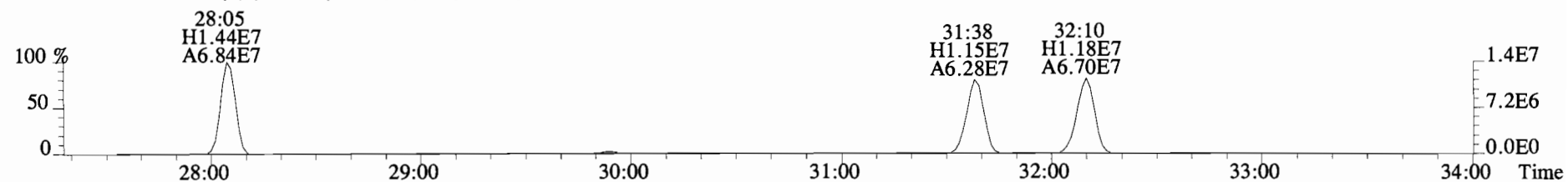
291.9194 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2868.0,0.00%,F,F)



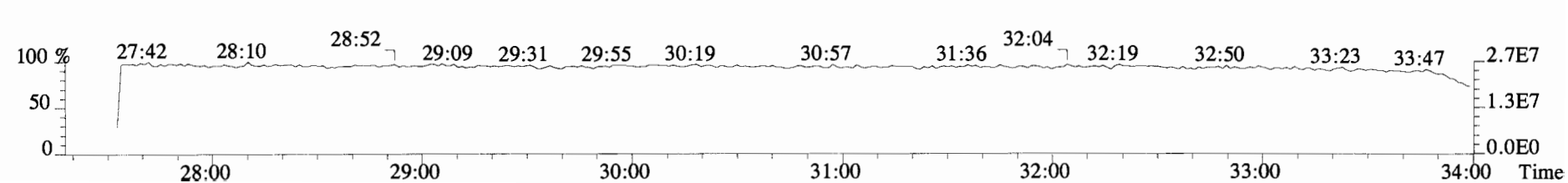
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15988.0,0.00%,F,F)



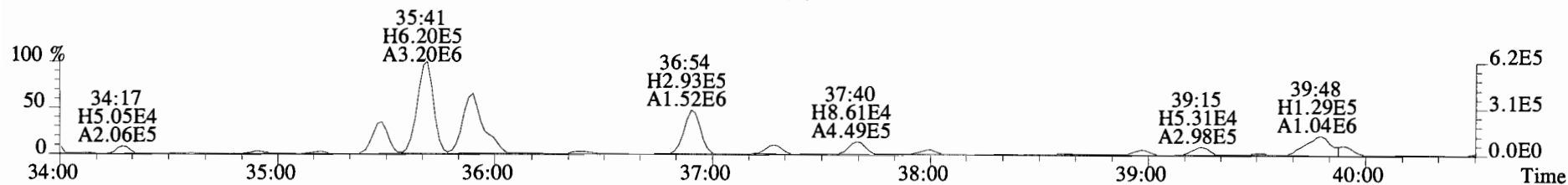
303.9597 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12756.0,0.00%,F,F)



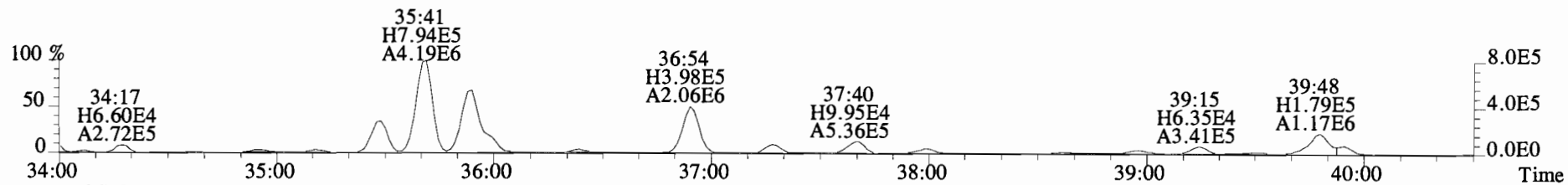
330.9792 S:6 F:3



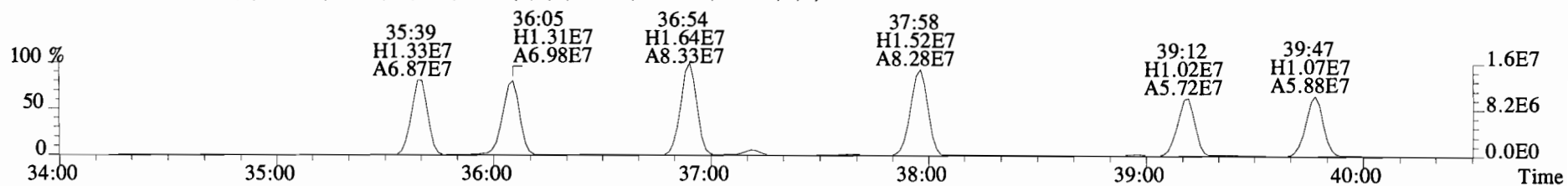
File:140923E1 #1-761 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2968.0,0.00%,F,F)



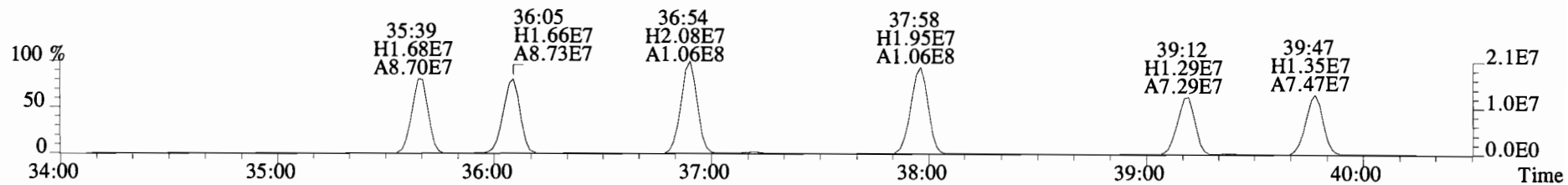
291.9194 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2868.0,0.00%,F,F)



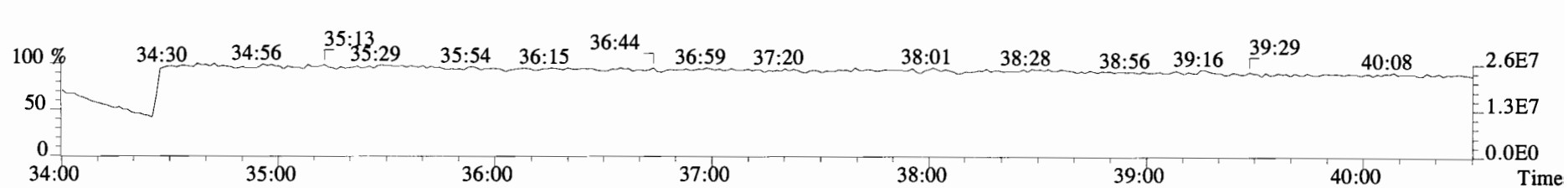
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15988.0,0.00%,F,F)



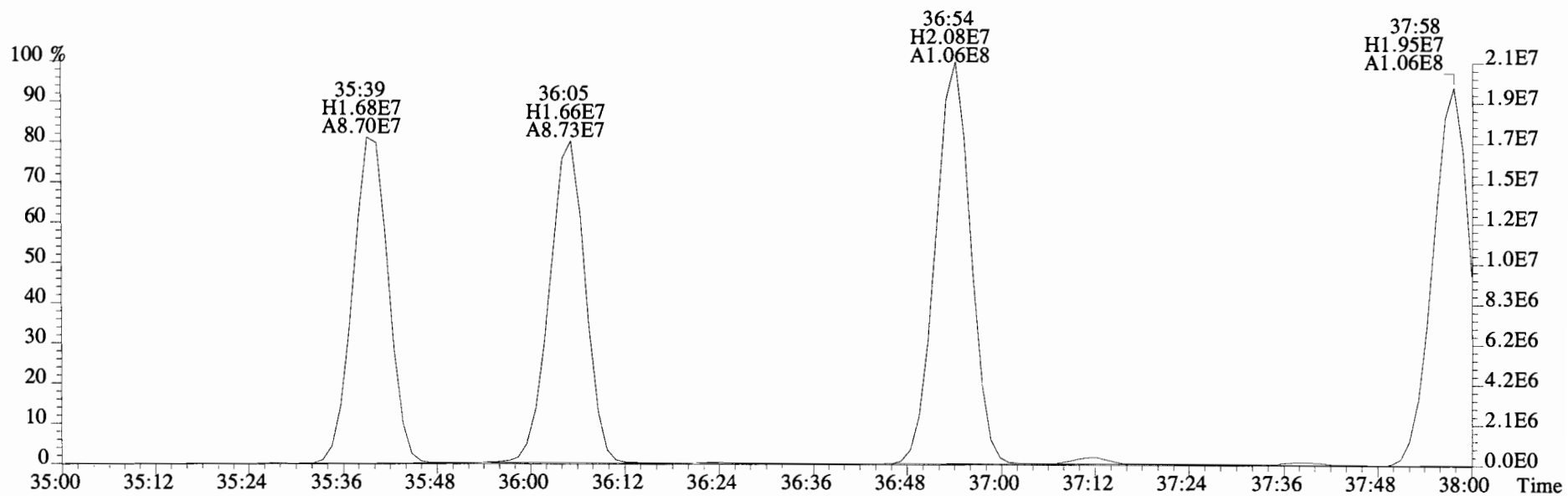
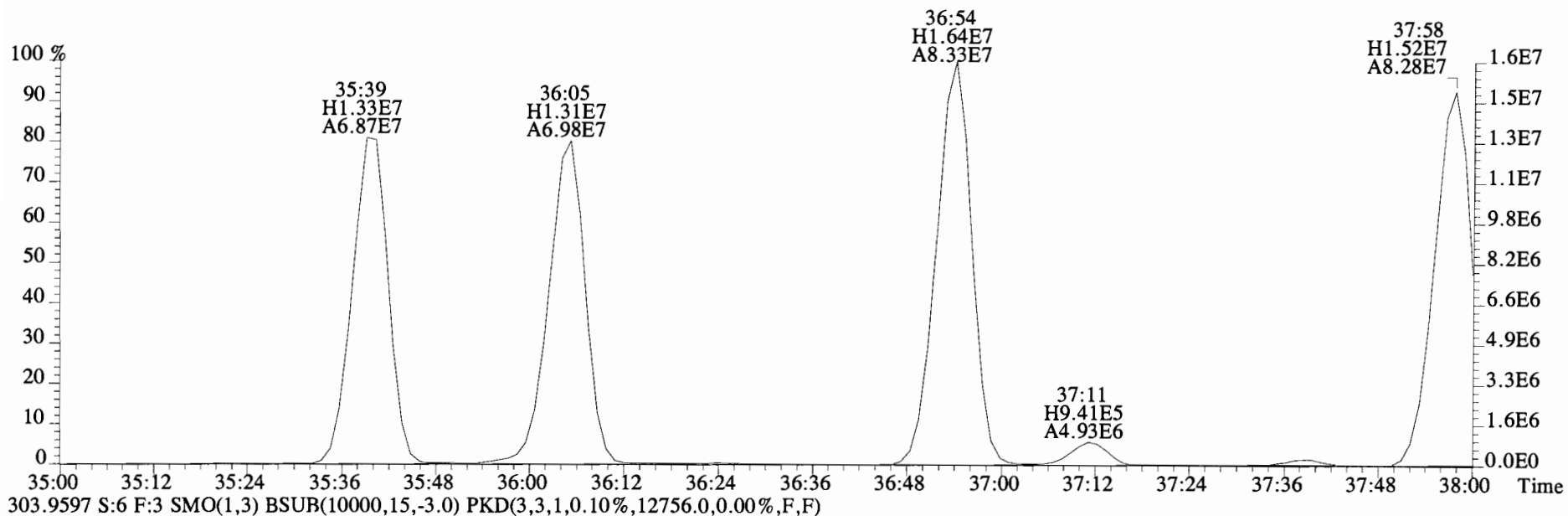
303.9597 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12756.0,0.00%,F,F)



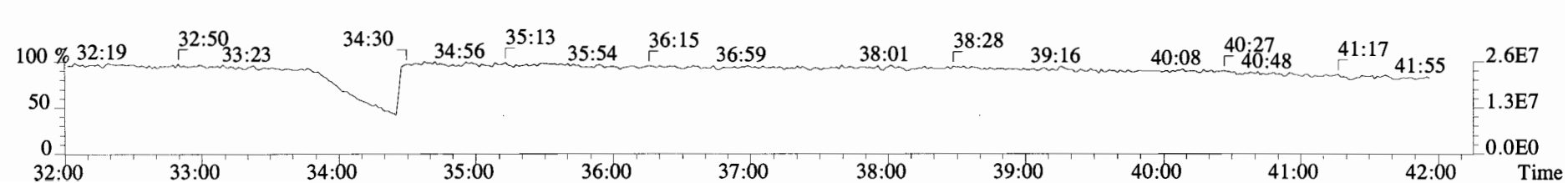
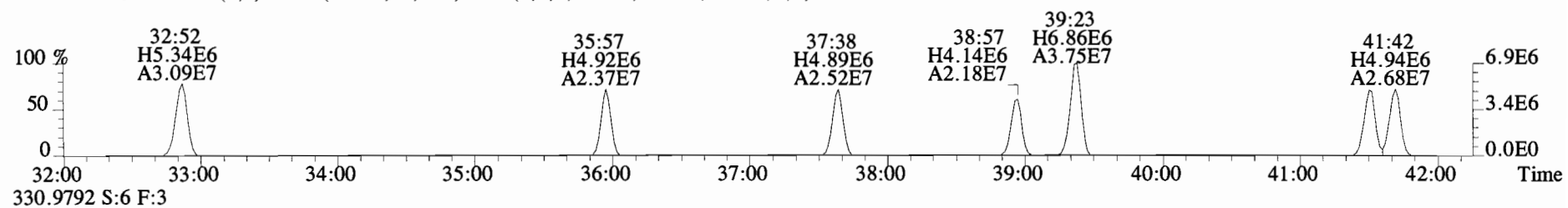
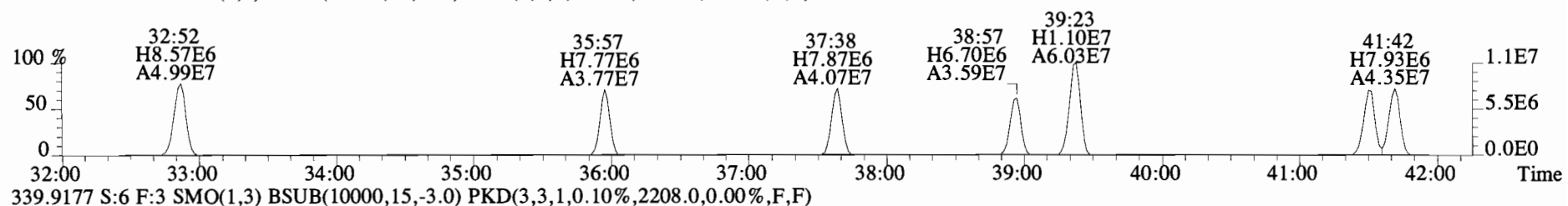
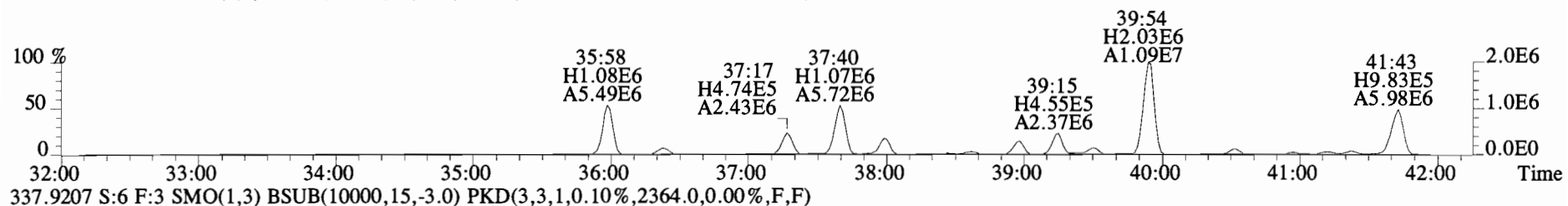
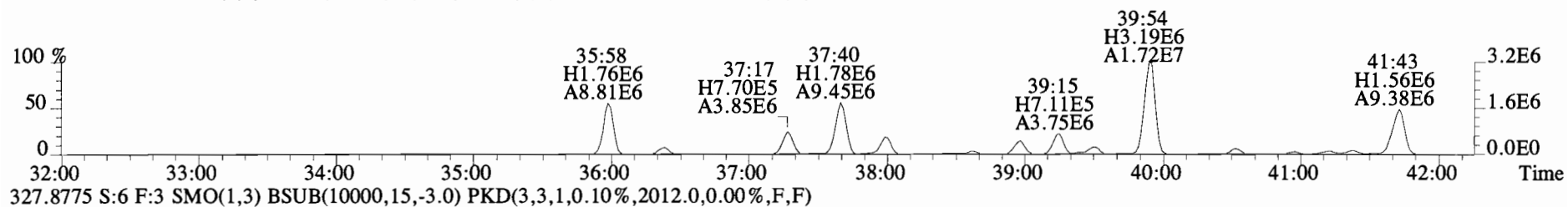
330.9792 S:6 F:3



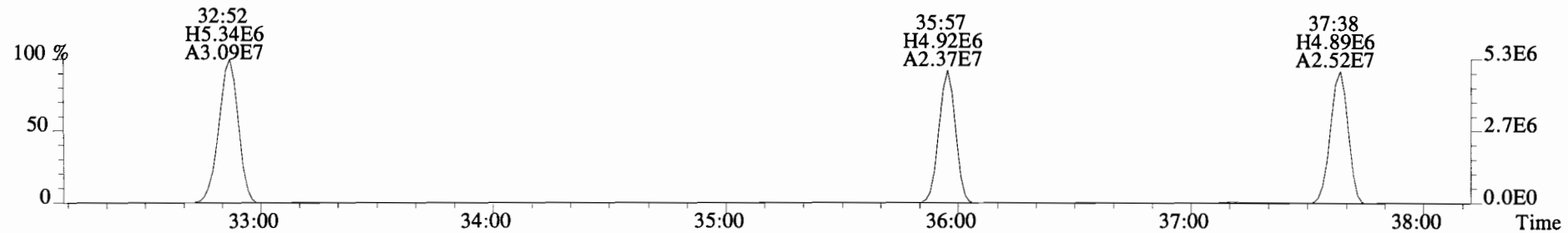
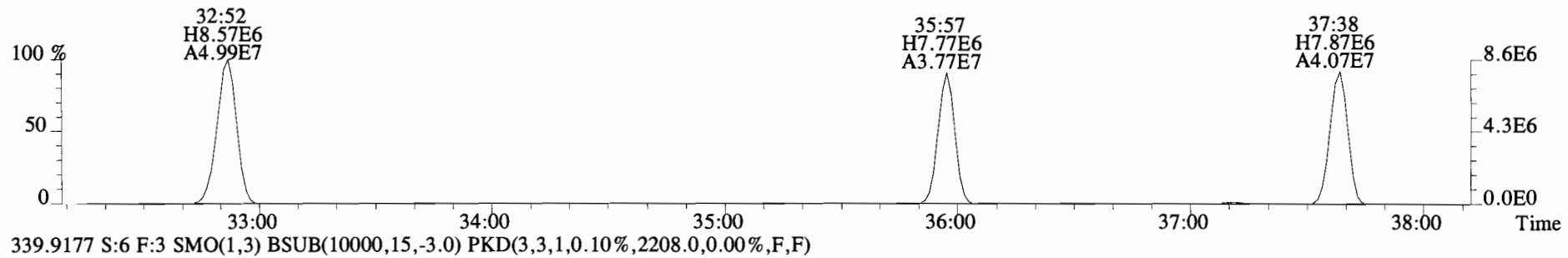
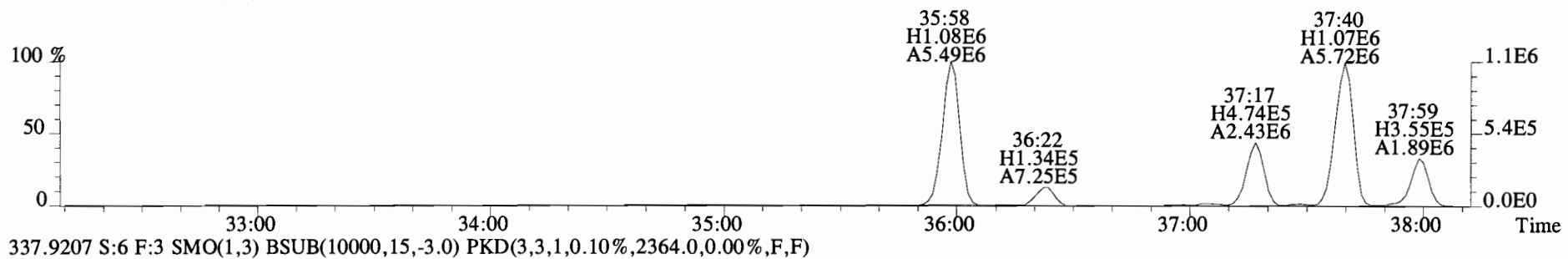
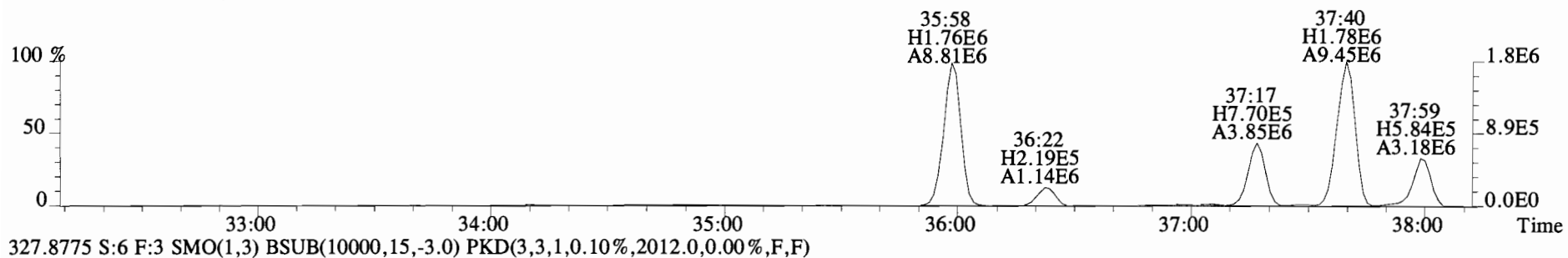
File:140923E1 #1-761 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15988.0,0.00%,F,F)



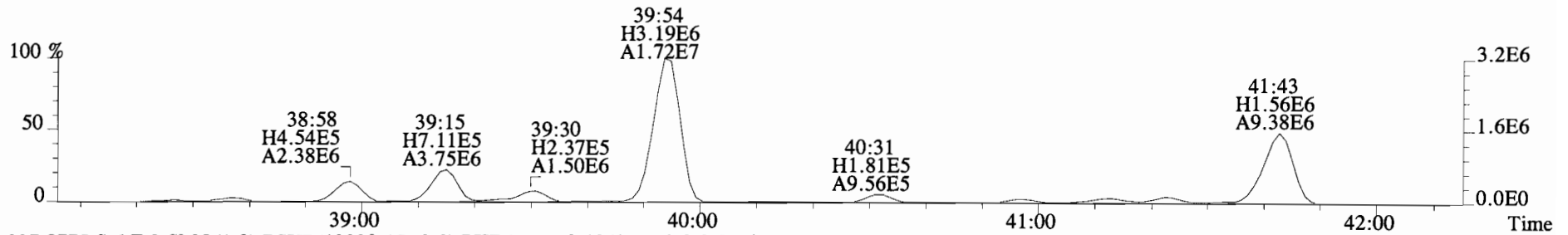
File:140923E1 #1-761 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
 325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1640.0,0.00%,F,F)



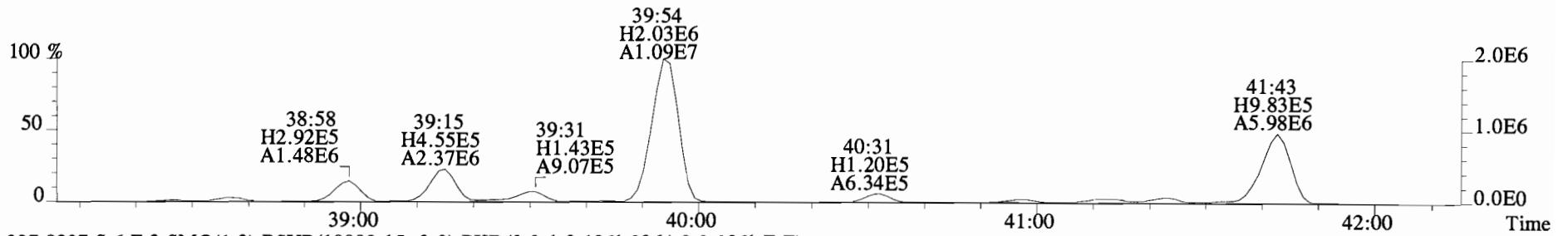
File:140923E1 #1-761 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1640.0,0.00%,F,F)



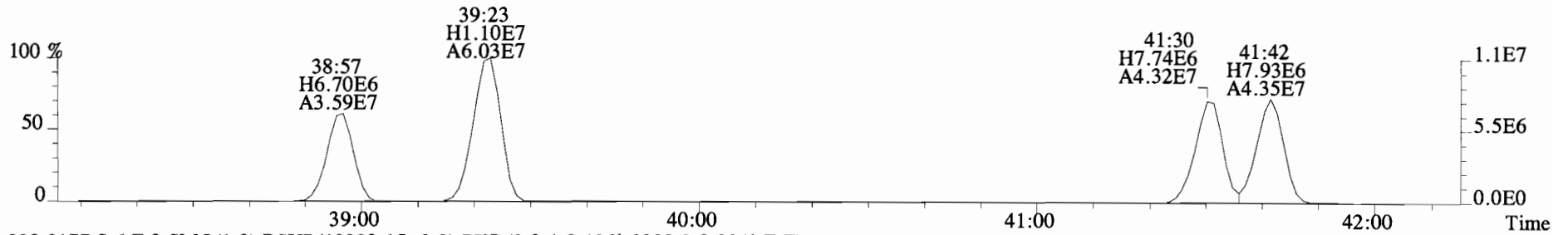
File:140923E1 #1-761 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
 325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1640.0,0.00%,F,F)



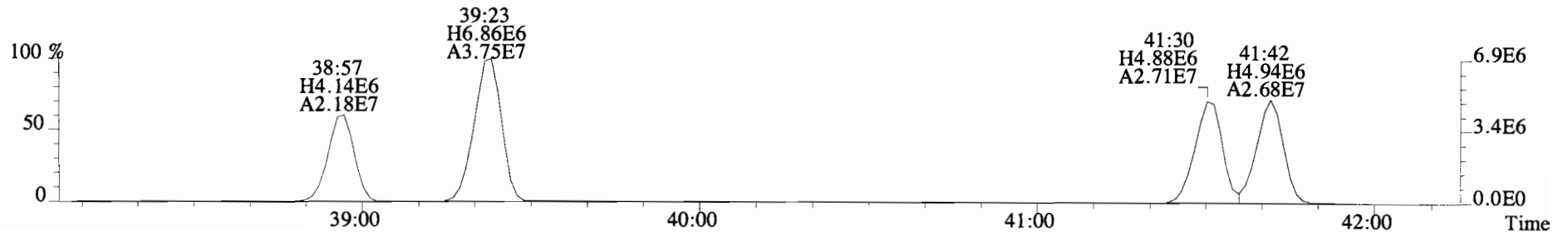
327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2012.0,0.00%,F,F)



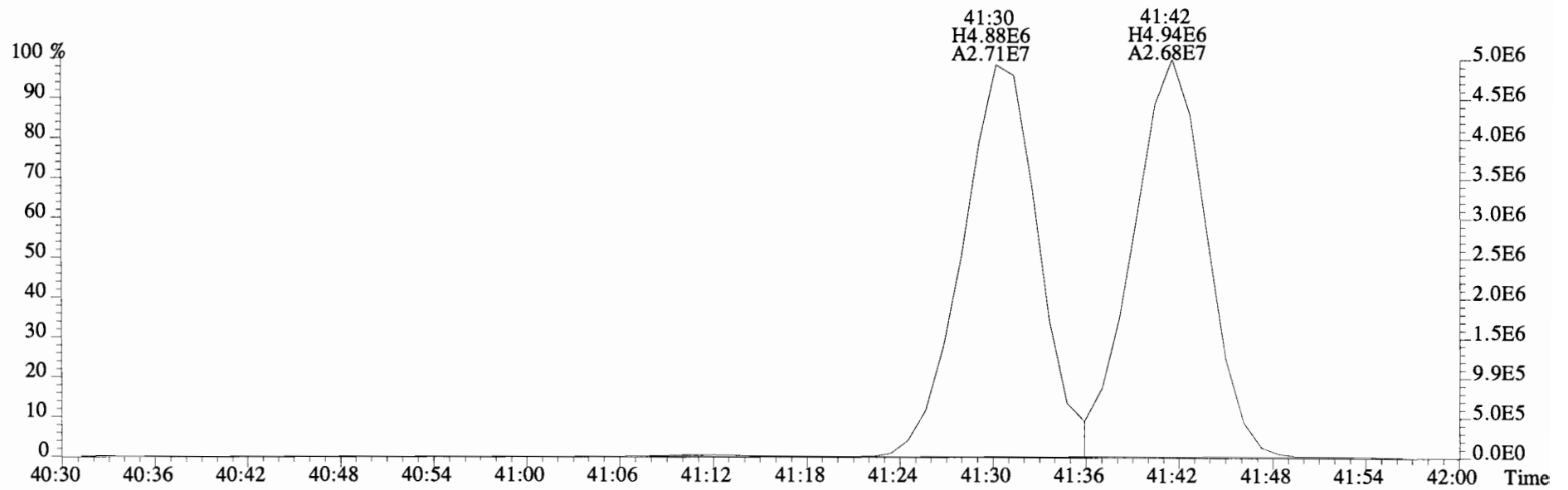
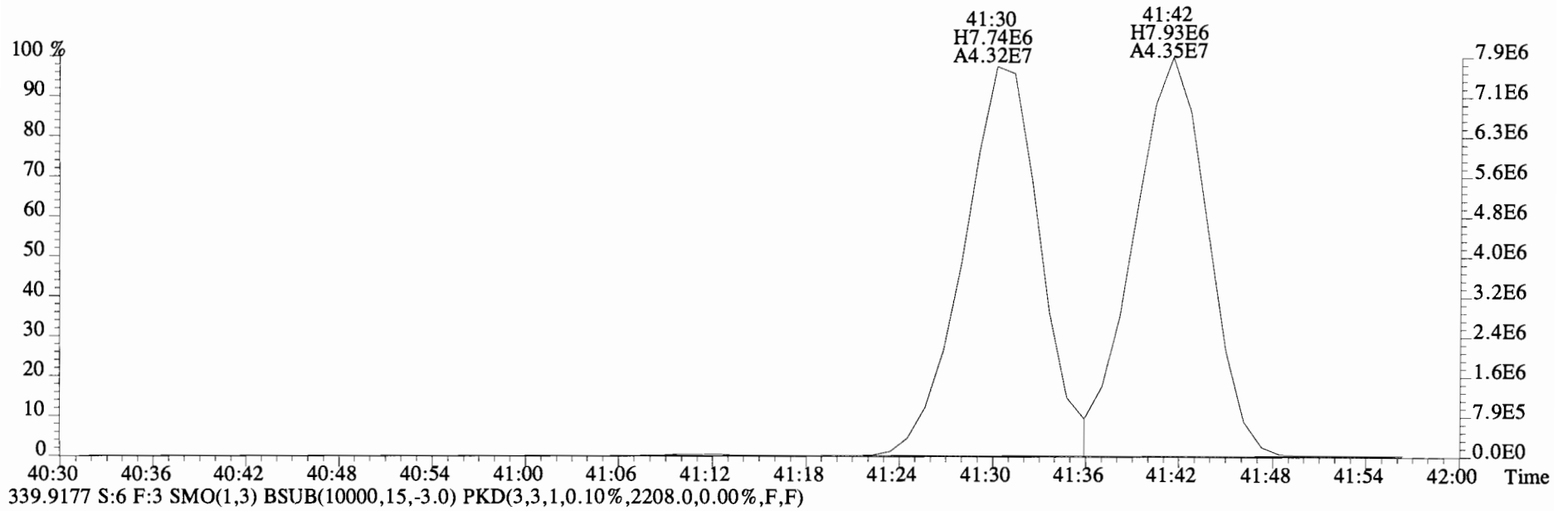
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2364.0,0.00%,F,F)



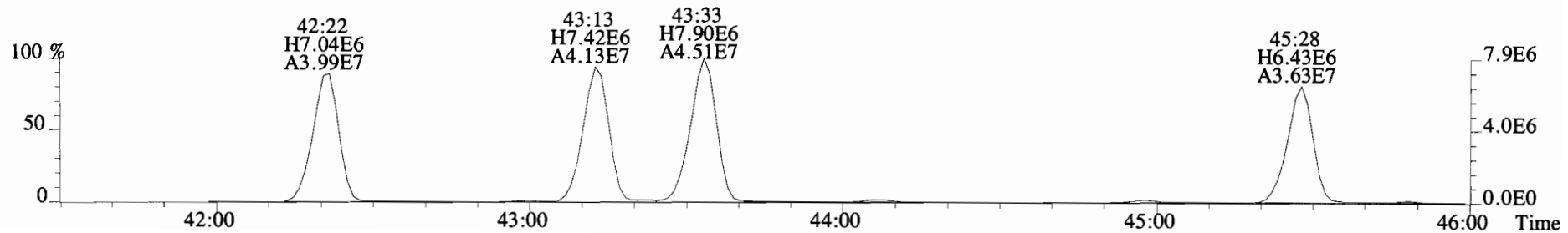
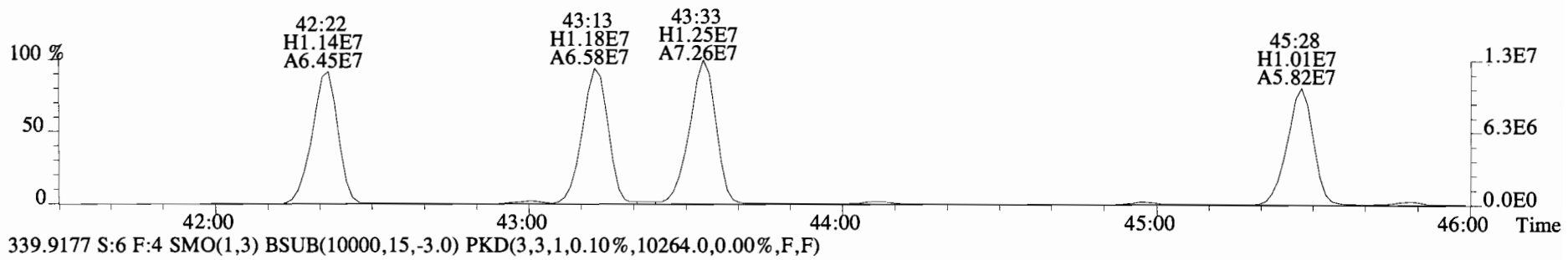
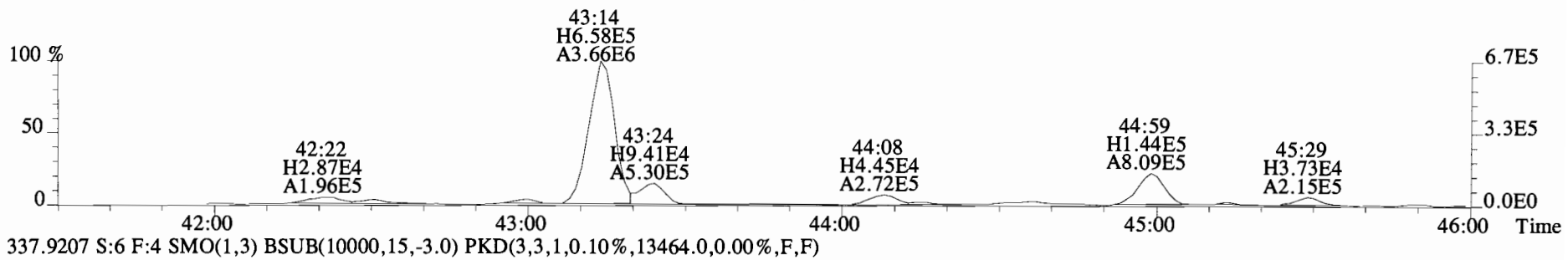
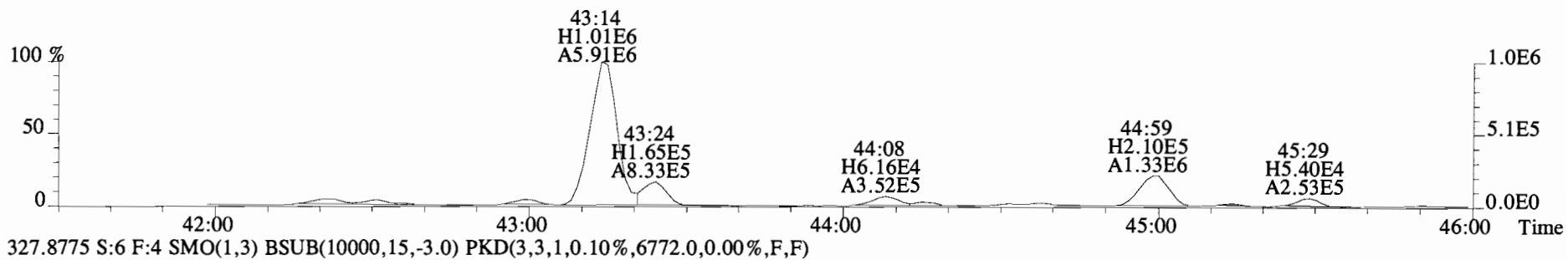
339.9177 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2208.0,0.00%,F,F)



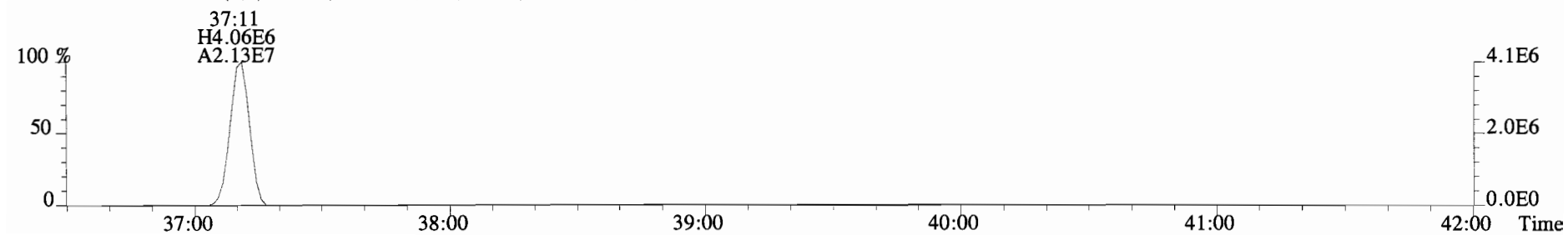
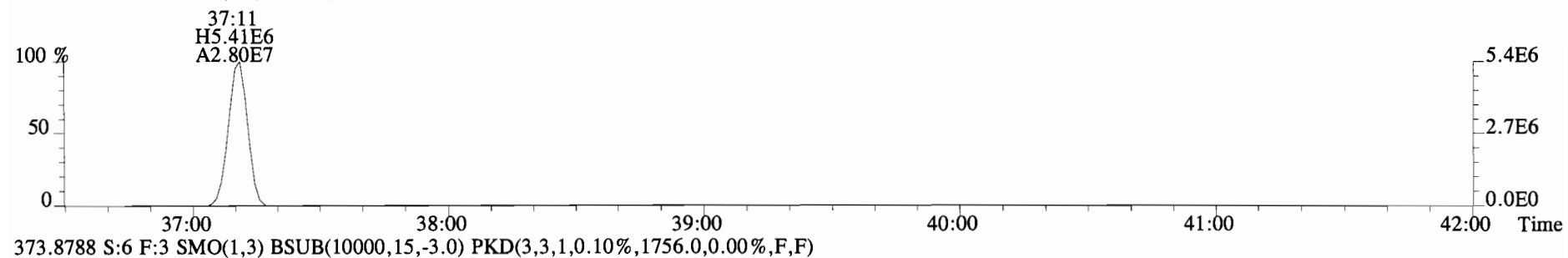
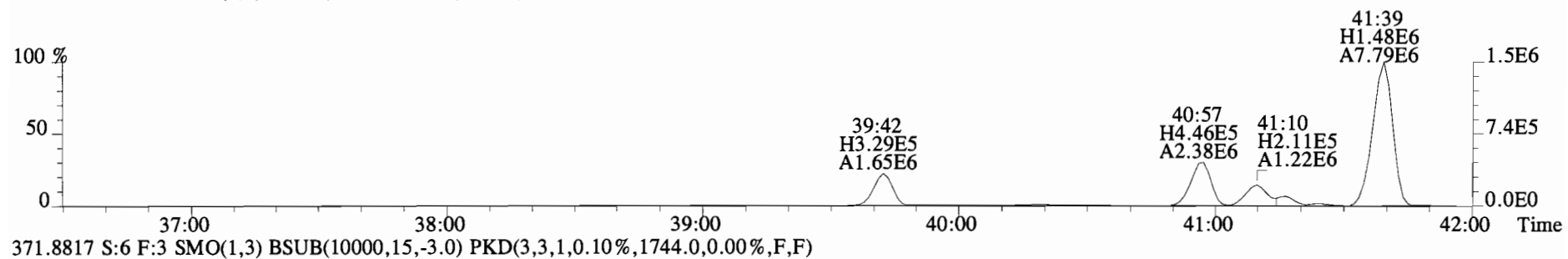
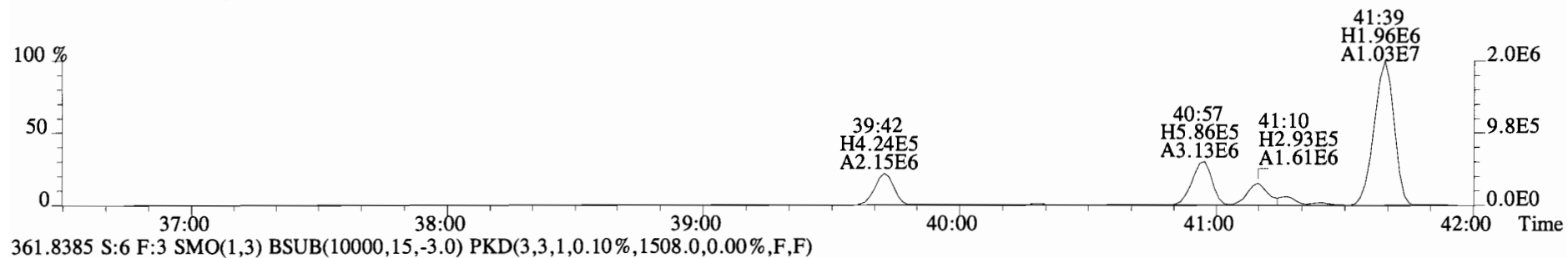
File:140923E1 #1-761 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2364.0,0.00%,F,F)



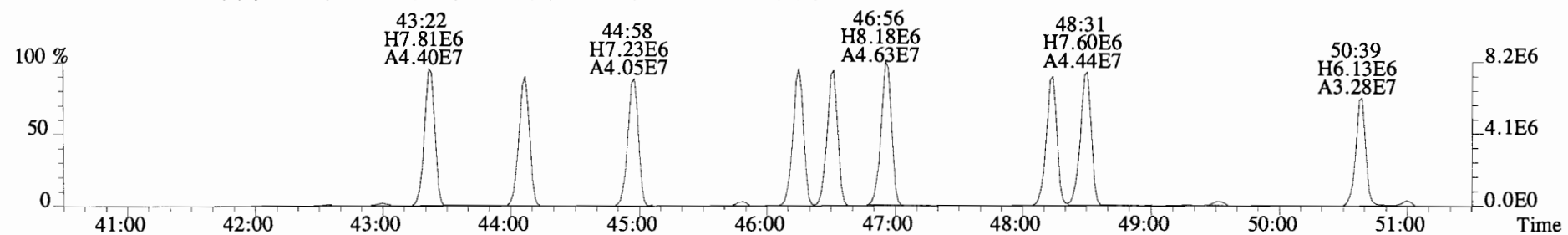
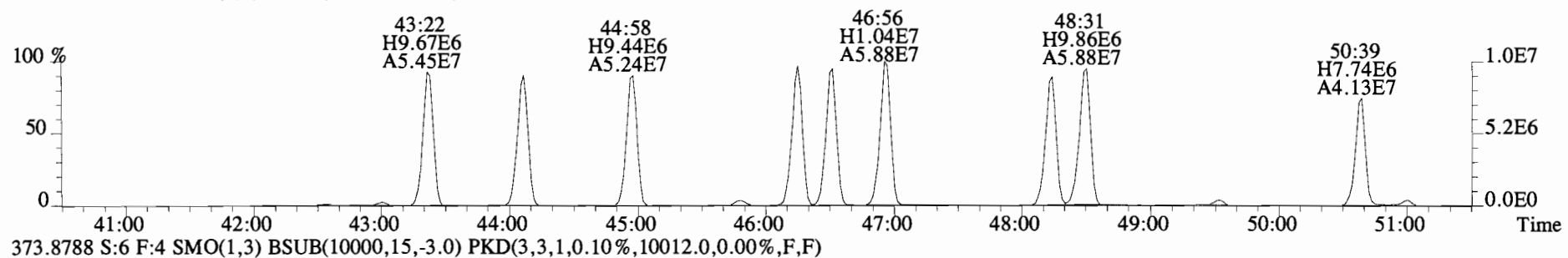
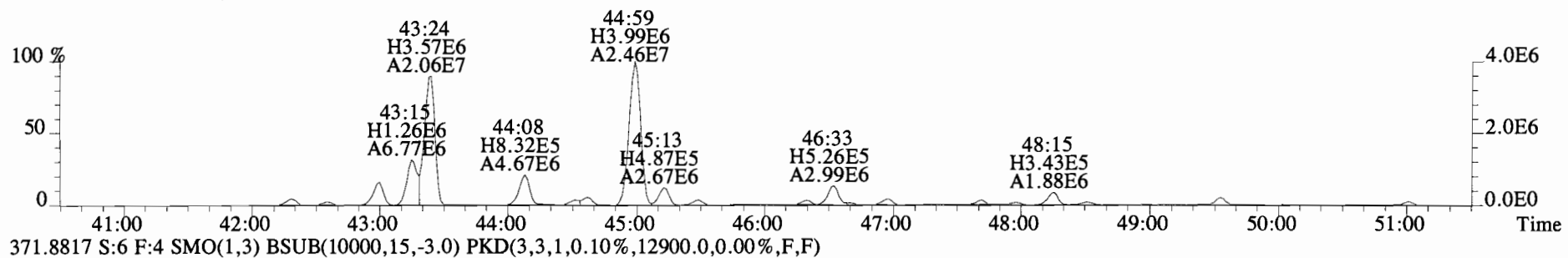
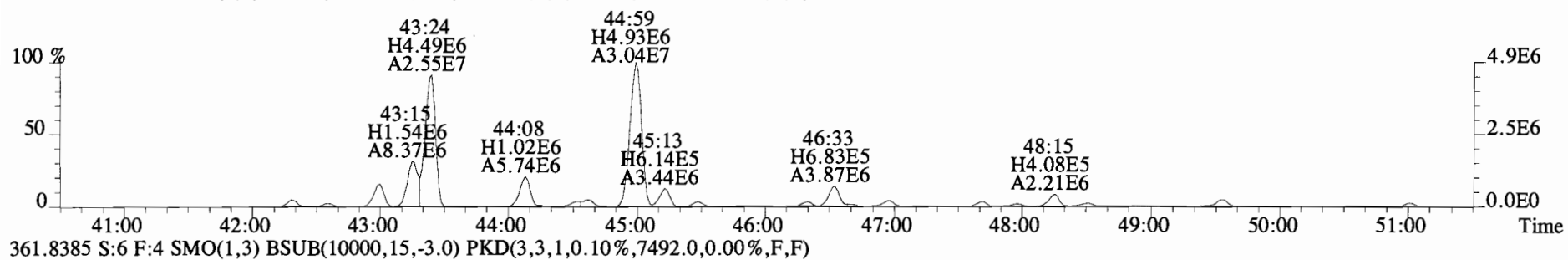
File:140923E1 #1-561 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
 325.8804 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9460.0,0.00%,F,F)



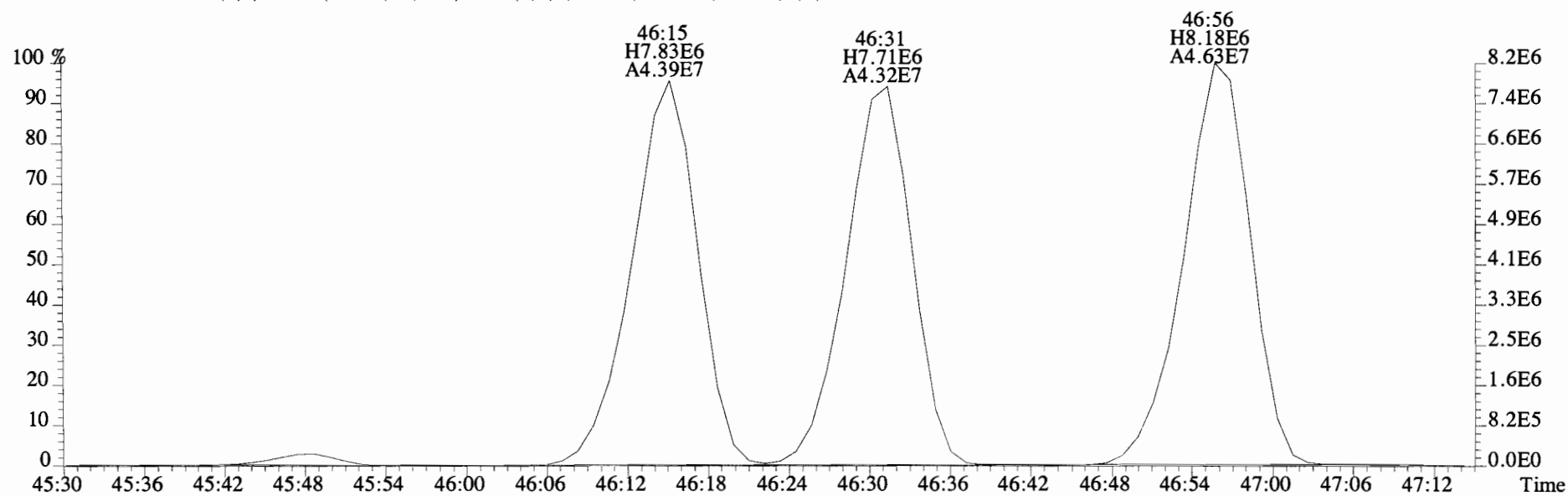
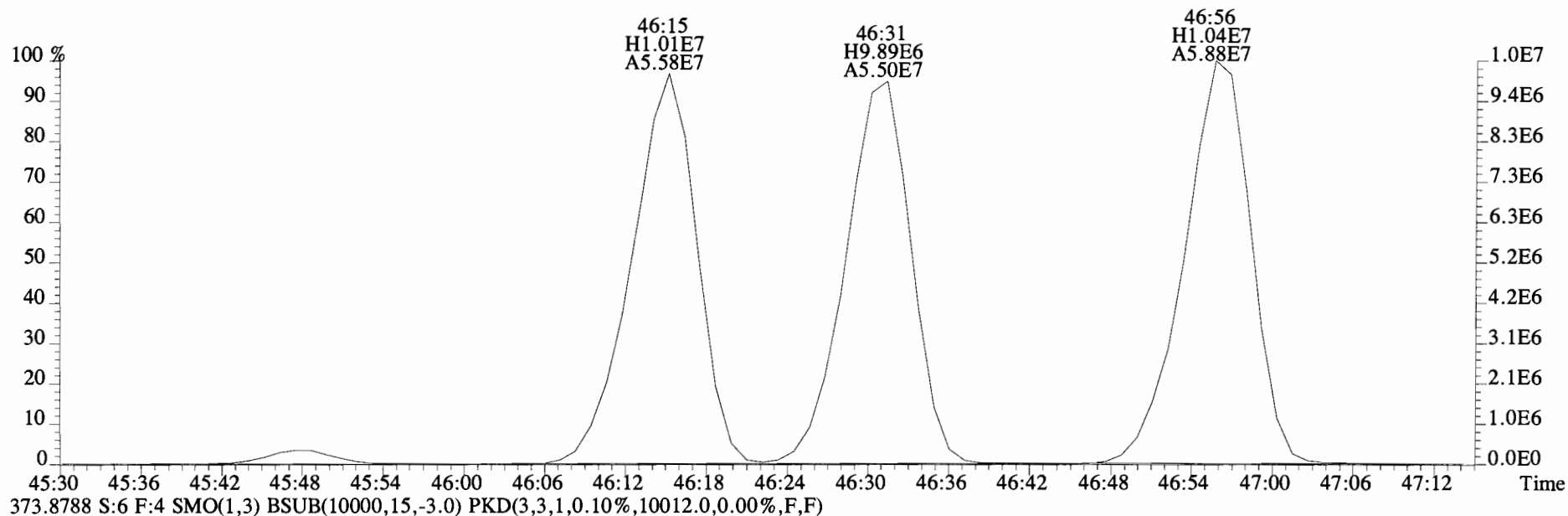
File:140923E1 #1-761 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
359.8415 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1452.0,0.00%,F,F)



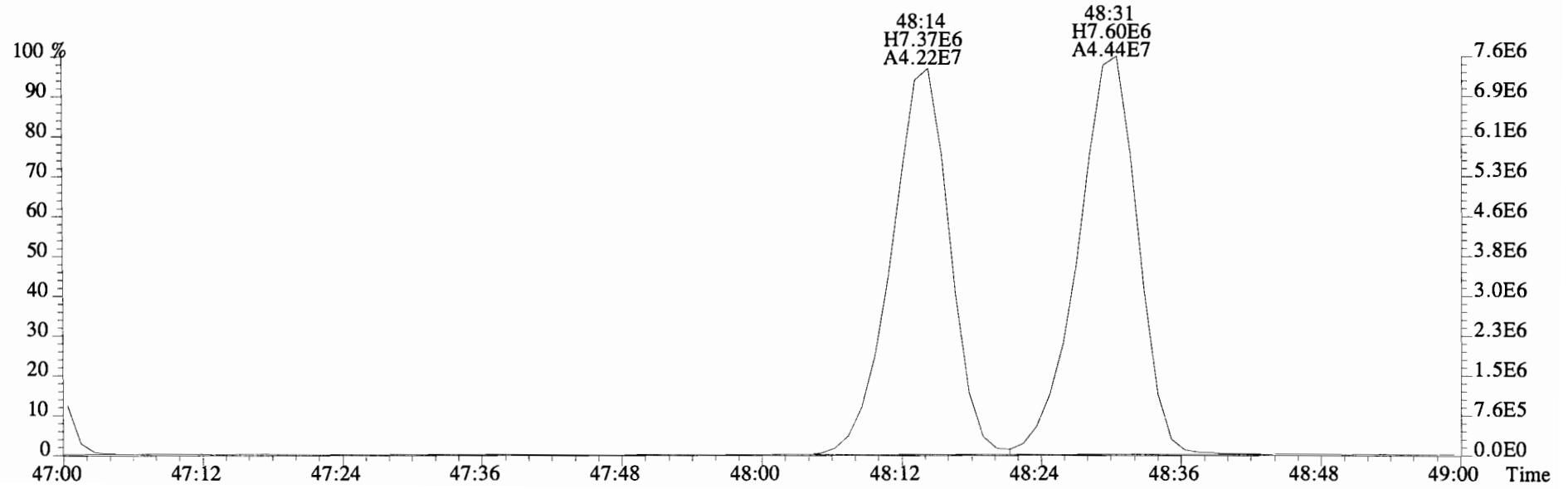
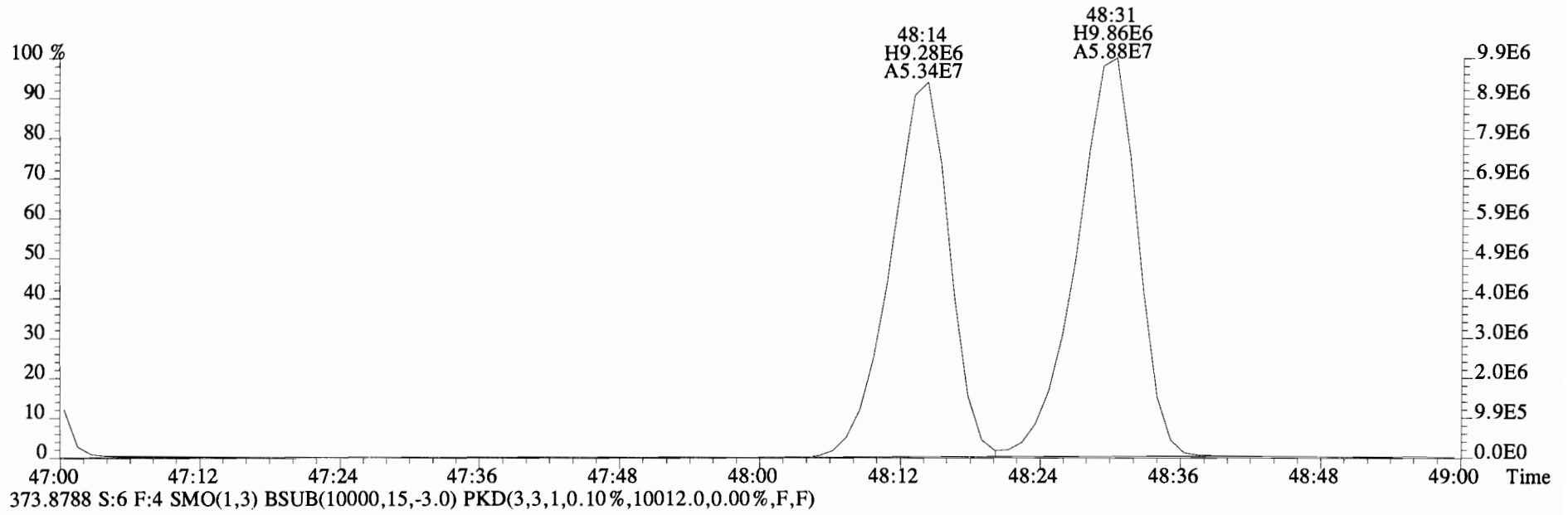
File:140923E1 #1-561 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
 359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5516.0,0.00%,F,F)



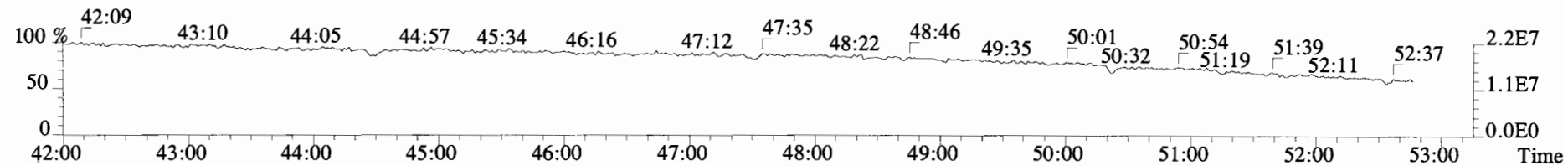
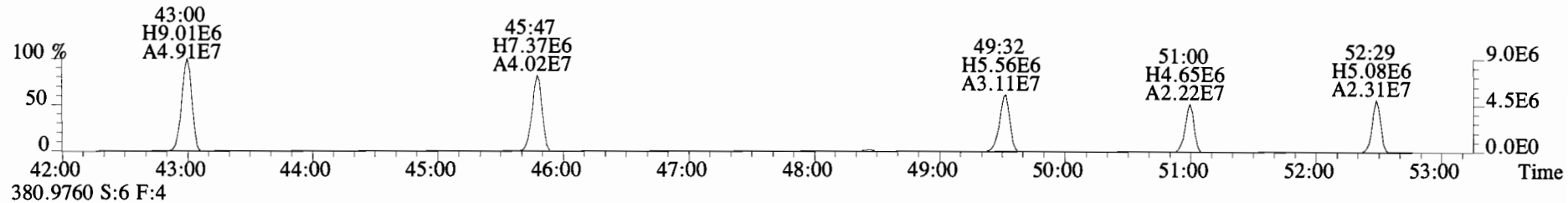
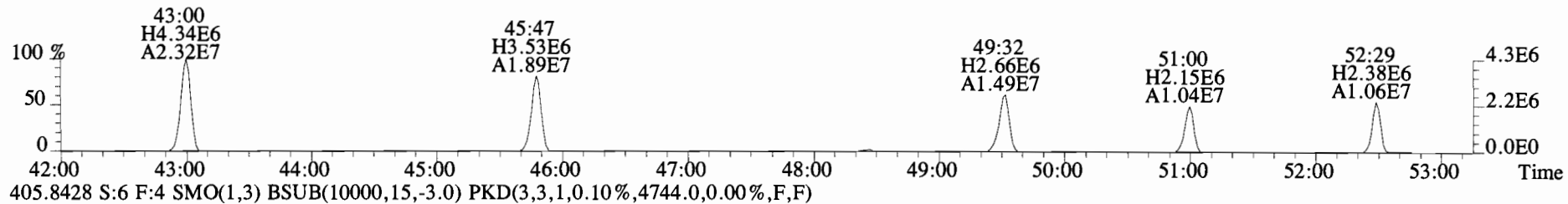
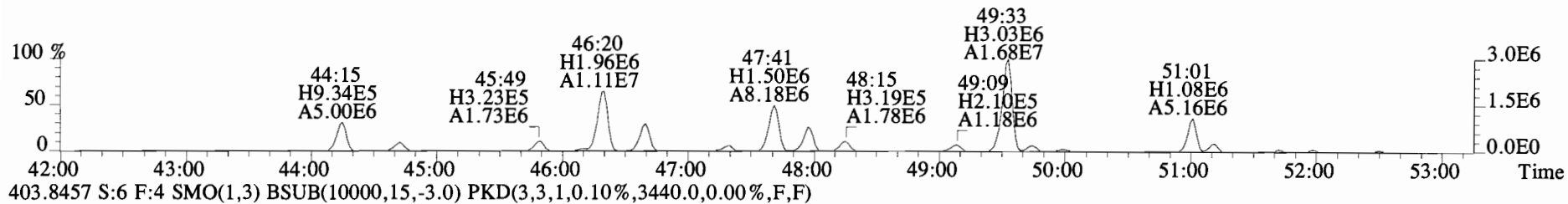
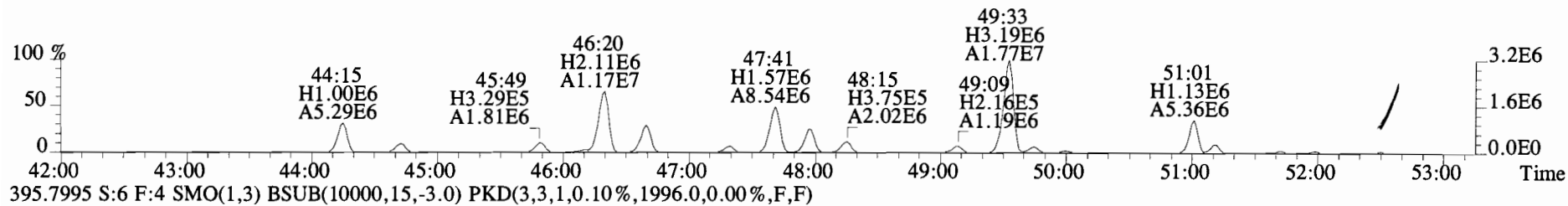
File:140923E1 #1-561 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12900.0,0.00%,F,F)



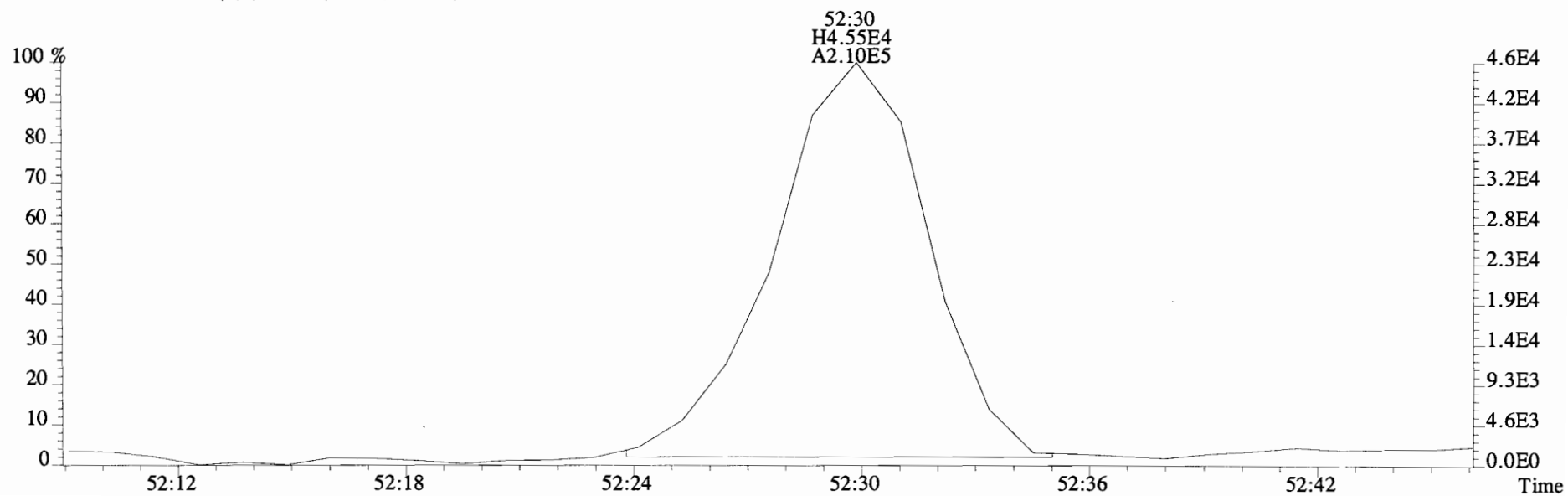
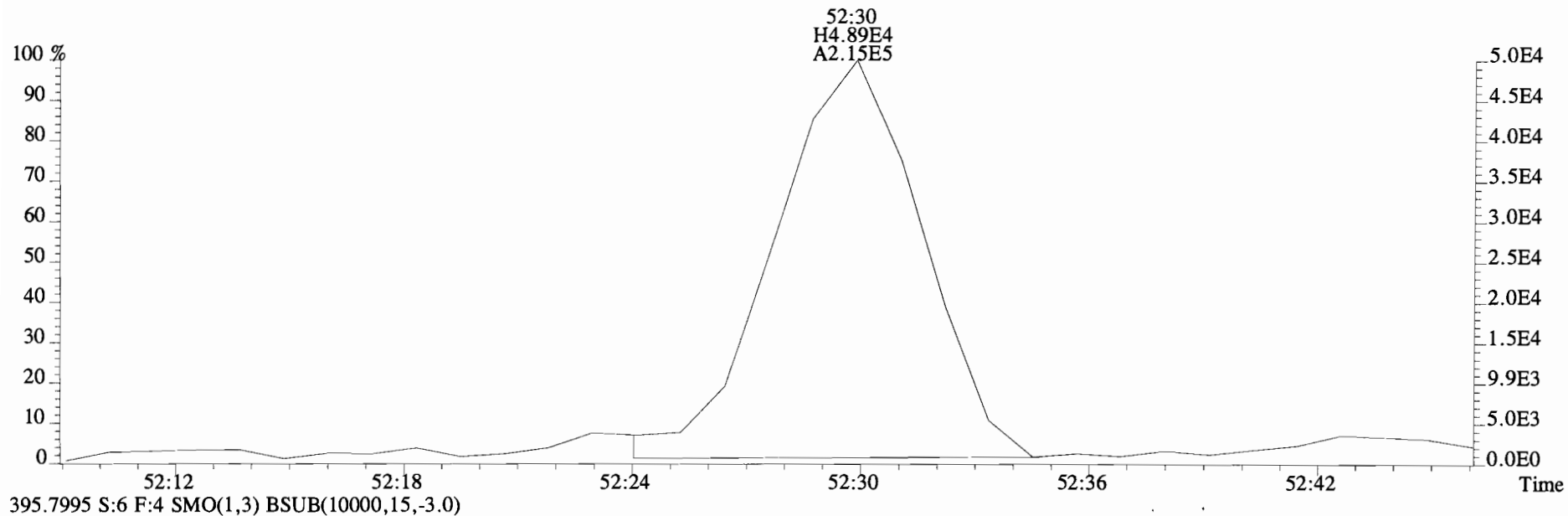
File:140923E1 #1-561 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12900.0,0.00%,F,F)



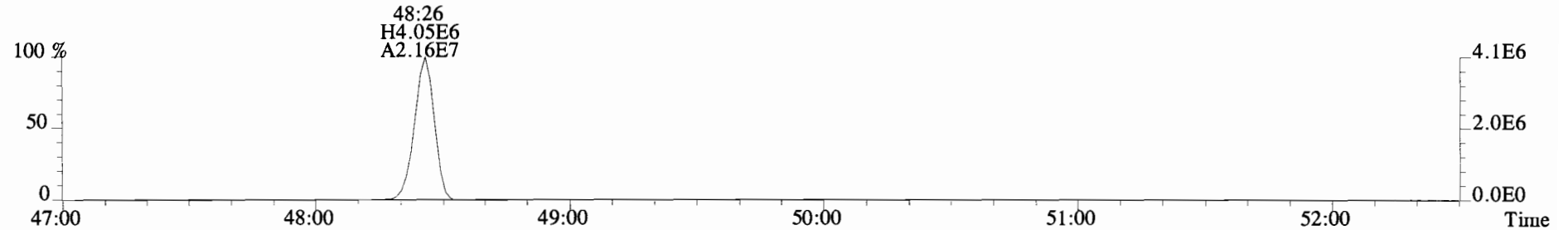
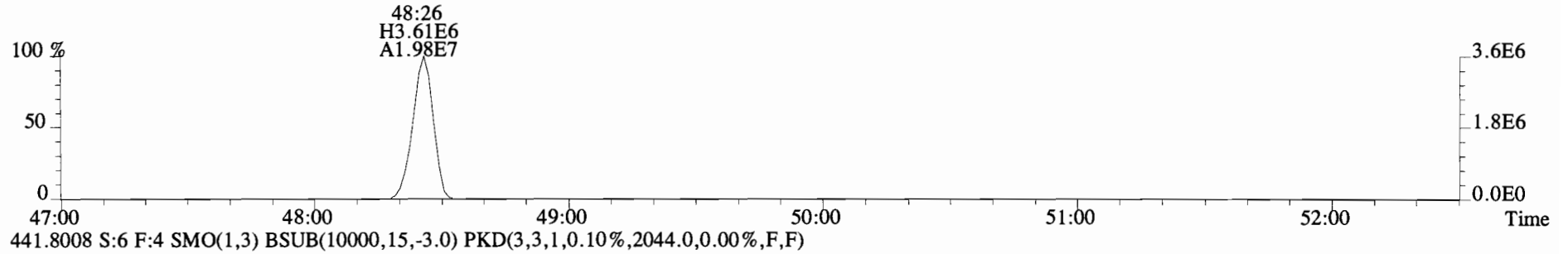
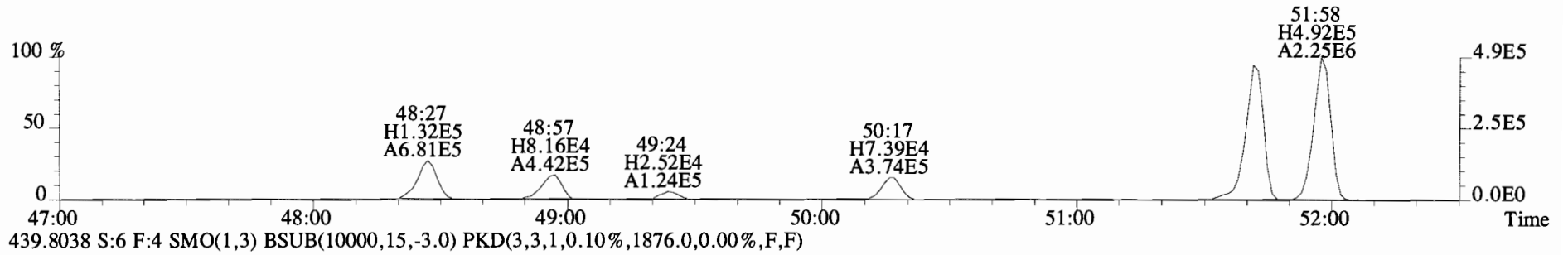
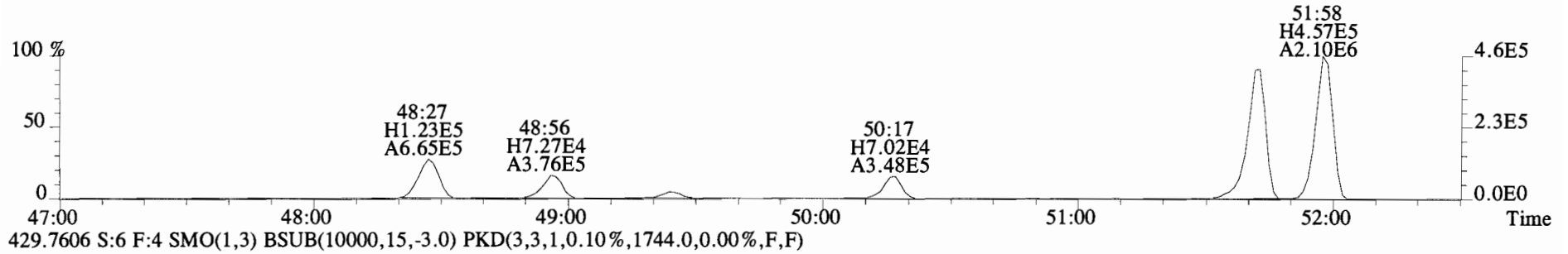
File:140923E1 #1-561 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2724.0,0.00%,F,F)



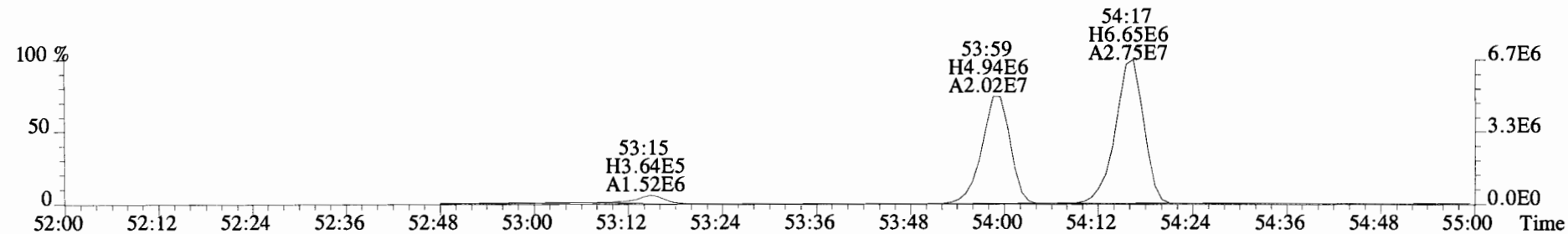
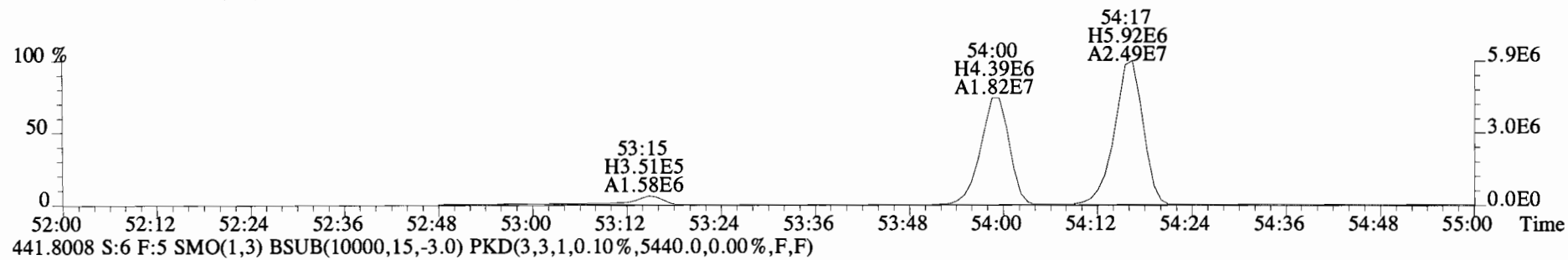
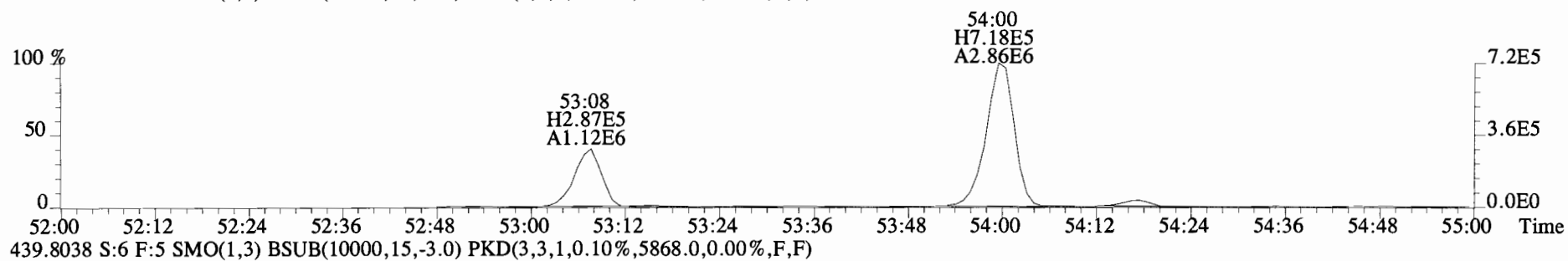
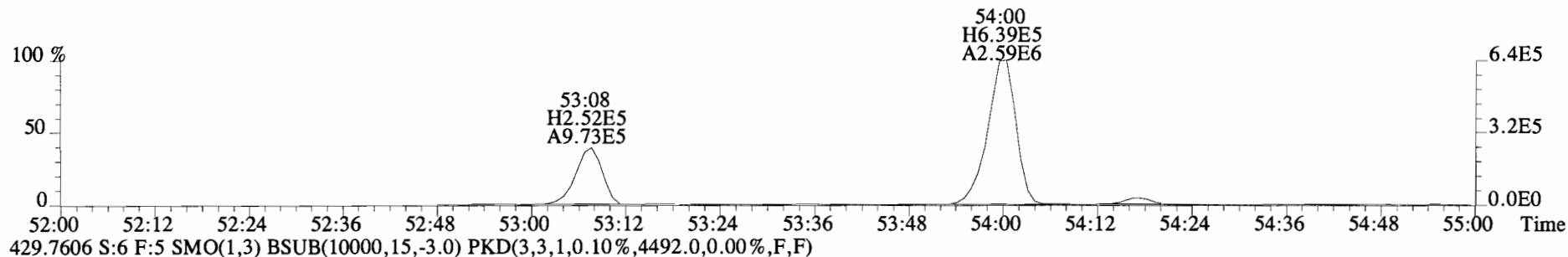
File:140923E1 #1-561 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-TS-01-20140909-W Exp:PCB_ZB1
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0)



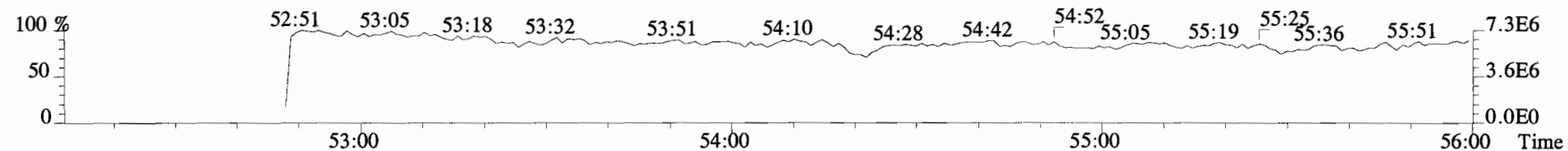
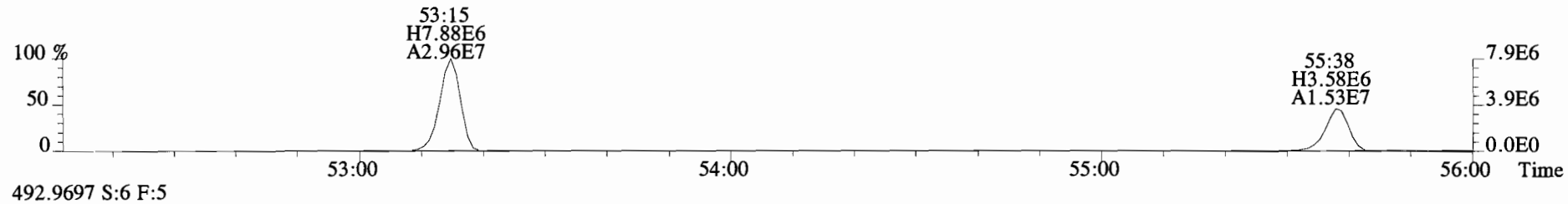
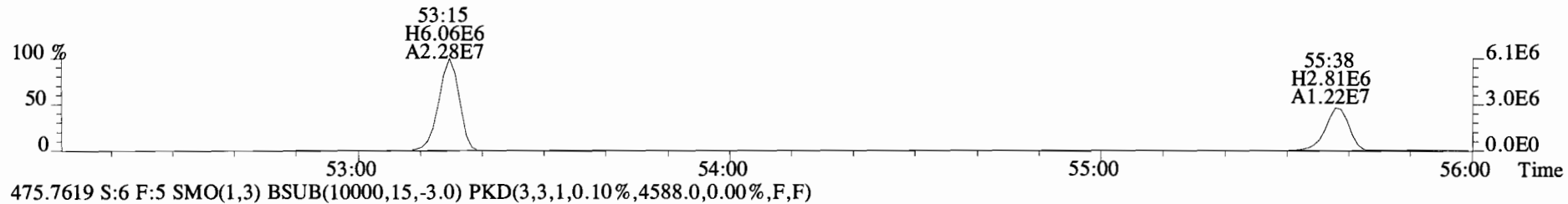
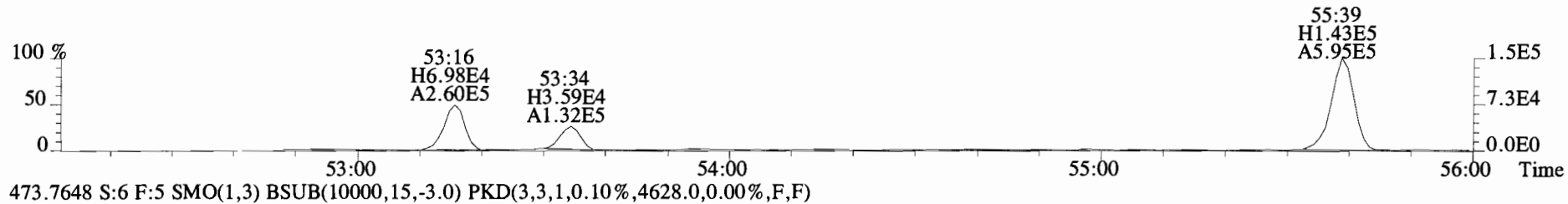
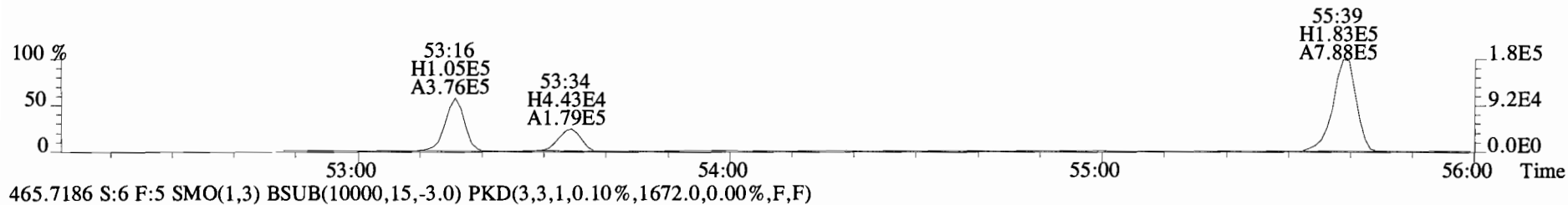
File:140923E1 #1-561 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
427.7635 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1632.0,0.00%,F,F)



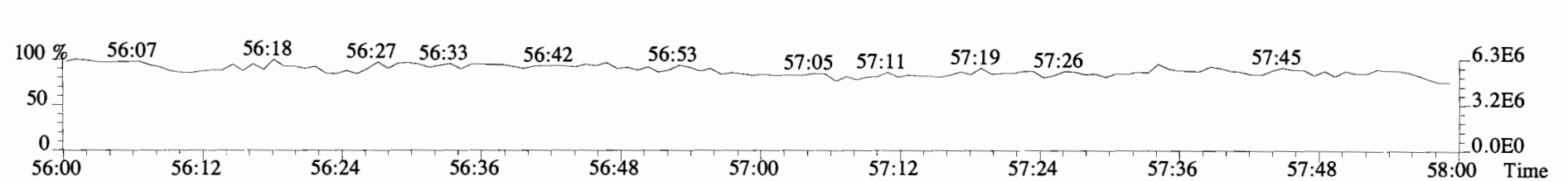
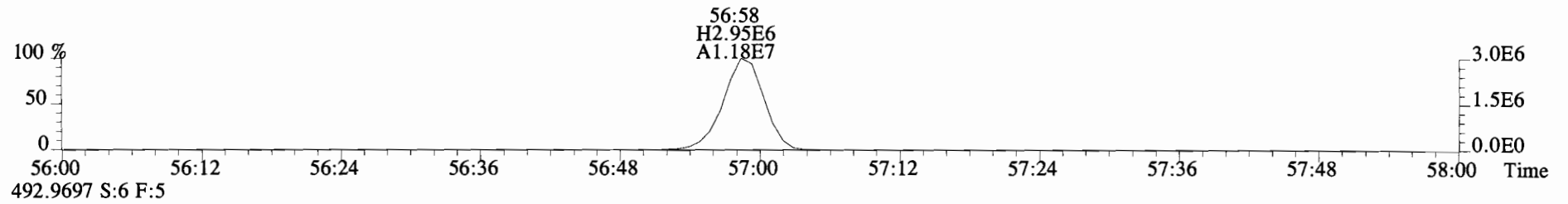
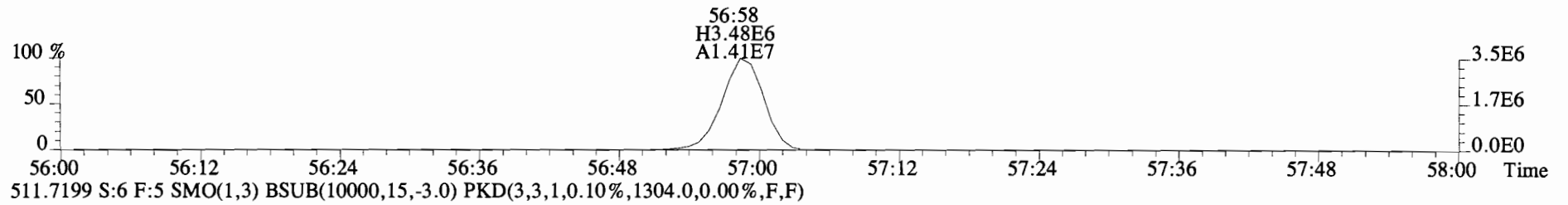
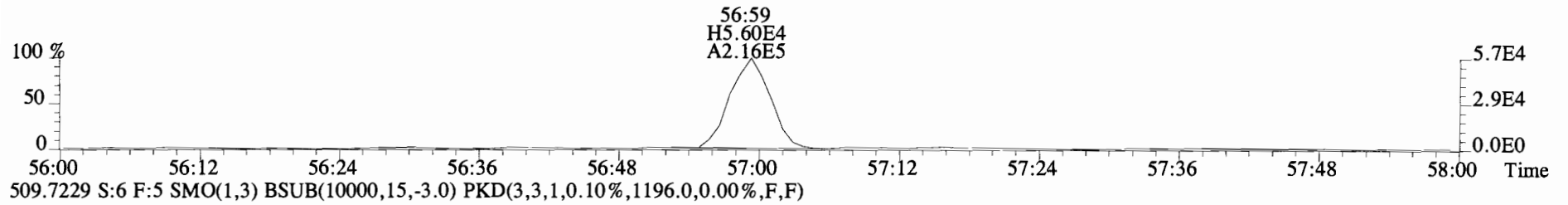
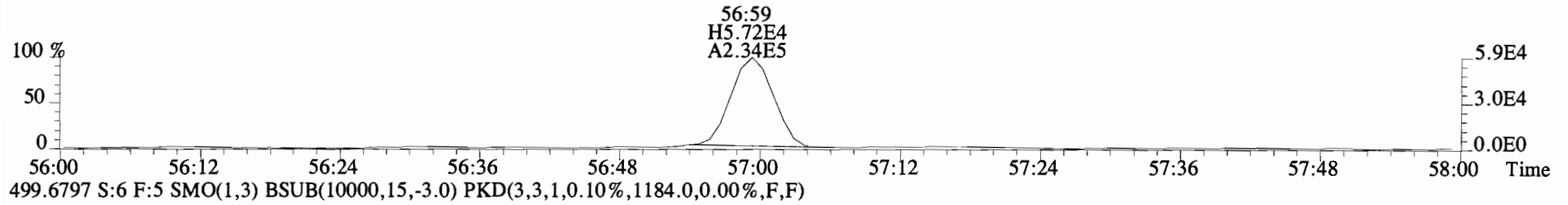
File:140923E1 #1-417 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
427.7635 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3544.0,0.00%,F,F)



File:140923E1 #1-417 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
 463.7216 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1612.0,0.00%,F,F)



File:140923E1 #1-417 Acq:23-SEP-2014 19:22:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400659-02RE1 RI PS-OS-01-20140909-W Exp:PCB_ZB1
497.6826 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1288.0,0.00%,F,F)



Client ID: Method Blank
Lab ID: B4I0061-BLK1

Filename: 140919E2
GC Column ID: ZB-1

S:6 Acq:20-SEP-14 05:05:04
ICal: PCBVG8-6-23-14 wt/vol: 10.000

ConCal: ST140919E2-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|--------------|------|-----|-------------|------|------|------|-------|-----|-------|-----|-------------|-----|
| Mono | PCB-1 | * | * n | NotF η | 1.19 | * | | 3600 | 2.5 | 0.794 | * | 0.996-1.006 | |
| Mono | PCB-2 | * | * n | NotF η | 1.18 | * | | 3600 | 2.5 | 0.833 | * | 0.984-0.994 | |
| Mono | PCB-3 | * | * n | NotF η | 1.43 | * | | 3600 | 2.5 | 0.692 | * | 0.996-1.006 | |
| Di | PCB-4/10 | * | * n | NotF η | 1.57 | * | | 15000 | 2.5 | 3.61 | * | 0.997-1.007 | |
| Di | PCB-7/9 | * | * n | NotF η | 1.21 | * | | 15000 | 2.5 | 3.07 | * | 0.866-0.874 | |
| Di | PCB-6 | * | * n | NotF η | 1.30 | * | | 15000 | 2.5 | 2.85 | * | 0.890-0.899 | |
| Di | PCB-5/8 | * | * n | NotF η | 1.15 | * | | 15000 | 2.5 | 3.24 | * | 0.907-0.917 | |
| Di | PCB-14 | * | * n | NotF η | 1.11 | * | | 15000 | 2.5 | 3.25 | * | 0.949-0.959 | |
| Di | PCB-11 | * | * n | NotF η | 1.09 | * | | 15000 | 2.5 | 3.32 | * | 0.995-1.005 | |
| Di | PCB-12/13 | * | * n | NotF η | 1.19 | * | | 15000 | 2.5 | 3.02 | * | 1.011-1.021 | |
| Di | PCB-15 | * | * n | NotF η | 1.28 | * | | 15000 | 2.5 | 2.81 | * | 1.023-1.033 | |
| Tri | PCB-19 | * | * n | NotF η | 1.04 | * | | 1770 | 2.5 | 0.480 | * | 0.996-1.006 | |
| Tri | PCB-30 | * | * n | NotF η | 1.71 | * | | 1770 | 2.5 | 0.293 | * | 1.032-1.042 | |
| Tri | PCB-18 | * | * n | NotF η | 0.78 | * | | 4710 | 1.0 | 0.455 | * | 0.949-0.959 | |
| Tri | PCB-17 | * | * n | NotF η | 0.92 | * | | 1770 | 2.5 | 0.362 | * | 0.956-0.966 | |
| Tri | PCB-24/27 | * | * n | NotF η | 1.19 | * | | 1770 | 2.5 | 0.281 | * | 0.977-0.987 | |
| Tri | PCB-16/32 | * | * n | NotF η | 0.94 | * | | 1770 | 2.5 | 0.355 | * | 0.995-1.005 | |
| Tri | PCB-34 | * | * n | NotF η | 1.14 | * | | 1610 | 2.5 | 0.357 | * | 0.955-0.965 | |
| Tri | PCB-23 | * | * n | NotF η | 1.28 | * | | 1610 | 2.5 | 0.317 | * | 0.959-0.969 | |
| Tri | PCB-29 | * | * n | NotF η | 1.08 | * | | 1610 | 2.5 | 0.376 | * | 0.967-0.977 | |
| Tri | PCB-26 | * | * n | NotF η | 1.21 | * | | 1610 | 2.5 | 0.336 | * | 0.974-0.984 | |
| Tri | PCB-25 | * | * n | NotF η | 1.26 | * | | 1610 | 2.5 | 0.322 | * | 0.979-0.989 | |
| Tri | PCB-31 | * | * n | NotF η | 1.28 | * | | 3400 | 1.0 | 0.267 | * | 0.992-1.002 | |
| Tri | PCB-28 | * | * n | NotF η | 1.71 | * | | 3400 | 1.0 | 0.200 | * | 0.995-1.005 | |
| Tri | PCB-20/21/33 | * | * n | NotF η | 1.08 | * | | 4200 | 1.0 | 0.391 | * | 1.017-1.027 | |
| Tri | PCB-22 | * | * n | NotF η | 1.21 | * | | 4200 | 1.0 | 0.350 | * | 1.032-1.042 | |
| Tri | PCB-36 | * | * n | NotF η | 1.14 | * | | 1610 | 2.5 | 0.396 | * | 0.928-0.938 | |
| Tri | PCB-39 | * | * n | NotF η | 1.12 | * | | 1610 | 2.5 | 0.405 | * | 0.943-0.953 | |
| Tri | PCB-38 | * | * n | NotF η | 1.20 | * | | 1610 | 2.5 | 0.377 | * | 0.966-0.976 | |
| Tri | PCB-35 | * | * n | NotF η | 1.23 | * | | 1610 | 2.5 | 0.367 | * | 0.982-0.992 | |
| Tri | PCB-37 | * | * n | NotF η | 1.23 | * | | 1610 | 2.5 | 0.367 | * | 0.995-1.005 | |
| Tetra | PCB-54 | * | * n | NotF η | 1.10 | * | | 1850 | 2.5 | 0.413 | * | 0.996-1.006 | |
| Tetra | PCB-50 | * | * n | NotF η | 0.88 | * | | 1850 | 2.5 | 0.517 | * | 1.037-1.047 | |
| Tetra | PCB-53 | * | * n | NotF η | 1.06 | * | | 1850 | 2.5 | 0.516 | * | 0.942-0.952 | |
| Tetra | PCB-51 | * | * n | NotF η | 0.99 | * | | 1850 | 2.5 | 0.554 | * | 0.952-0.962 | |
| Tetra | PCB-45 | * | * n | NotF η | 0.86 | * | | 1850 | 2.5 | 0.636 | * | 0.966-0.976 | |
| Tetra | PCB-46 | * | * n | NotF η | 0.85 | * | | 1850 | 2.5 | 0.650 | * | 0.981-0.991 | |

Integrations by:

Analyst: ms

Date: 9/23/14

Reviewed by: 10/2

Date: 9/24/14

Client ID: Method Blank
Lab ID: B4I0061-BLK1

Filename: 140919E2
GC Column ID: ZB-1

S:6 Acq:20-SEP-14 05:05:04
ICal: PCBVG8-6-23-14 wt/vol:10.000

ConCal: ST140919E2-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-----------------|------|----|---------------|------|------|------|-------|-----|-------|-----|-------------|-----|
| Tetra | PCB-52/69 | * | * | n NotF η | 1.28 | * | | 1850 | 2.5 | 0.428 | * | 0.996-1.006 | |
| Tetra | PCB-73 | * | * | n NotF η | 1.35 | * | | 1850 | 2.5 | 0.406 | * | 1.000-1.010 | |
| Tetra | PCB-43/49 | * | * | n NotF η | 0.99 | * | | 1850 | 2.5 | 0.552 | * | 1.005-1.015 | |
| Tetra | PCB-47 | * | * | n NotF η | 1.06 | * | | 1850 | 2.5 | 0.473 | * | 0.996-1.006 | |
| Tetra | PCB-48/75 | * | * | n NotF η | 1.23 | * | | 1850 | 2.5 | 0.408 | * | 0.999-1.009 | |
| Tetra | PCB-65 | * | * | n NotF η | 1.22 | * | | 1850 | 2.5 | 0.409 | * | 1.008-1.018 | |
| Tetra | PCB-62 | * | * | n NotF η | 1.22 | * | | 1850 | 2.5 | 0.410 | * | 1.011-1.021 | |
| Tetra | PCB-44 | * | * | n NotF η | 0.86 | * | | 1850 | 2.5 | 0.583 | * | 1.021-1.031 | |
| Tetra | PCB-42/59 | * | * | n NotF η | 1.14 | * | | 1850 | 2.5 | 0.441 | * | 1.028-1.038 | |
| Tetra | PCB-41/64/71/72 | * | * | n NotF η | 1.21 | * | | 1850 | 2.5 | 0.415 | * | 1.046-1.056 | |
| Tetra | PCB-68 | * | * | n NotF η | 1.35 | * | | 1850 | 2.5 | 0.372 | * | 1.054-1.064 | |
| Tetra | PCB-40 | * | * | n NotF η | 0.70 | * | | 1850 | 2.5 | 0.715 | * | 1.061-1.071 | |
| Tetra | PCB-57 | * | * | n NotF η | 0.98 | * | | 1850 | 2.5 | 0.406 | * | 0.965-0.975 | |
| Tetra | PCB-67 | * | * | n NotF η | 1.11 | * | | 1850 | 2.5 | 0.359 | * | 0.974-0.984 | |
| Tetra | PCB-58 | * | * | n NotF η | 0.93 | * | | 1850 | 2.5 | 0.428 | * | 0.977-0.987 | |
| Tetra | PCB-63 | * | * | n NotF η | 0.95 | * | | 1850 | 2.5 | 0.417 | * | 0.982-0.992 | |
| Tetra | PCB-74 | * | * | n NotF η | 1.24 | * | | 1850 | 2.5 | 0.319 | * | 0.990-1.000 | |
| Tetra | PCB-61/70 | * | * | n NotF η | 0.95 | * | | 1850 | 2.5 | 0.417 | * | 0.995-1.005 | |
| Tetra | PCB-76/66 | * | * | n NotF η | 1.04 | * | | 1850 | 2.5 | 0.380 | * | 1.001-1.011 | |
| Tetra | PCB-80 | * | * | n NotF η | 1.19 | * | | 1850 | 2.5 | 0.325 | * | 0.996-1.006 | |
| Tetra | PCB-55 | * | * | n NotF η | 1.04 | * | | 1850 | 2.5 | 0.373 | * | 1.005-1.015 | |
| Tetra | PCB-56/60 | * | * | n NotF η | 1.01 | * | | 1850 | 2.5 | 0.384 | * | 1.019-1.029 | |
| Tetra | PCB-79 | * | * | n NotF η | 1.08 | * | | 1850 | 2.5 | 0.359 | * | 1.048-1.058 | |
| Tetra | PCB-78 | * | * | n NotF η | 1.27 | * | | 1850 | 2.5 | 0.339 | * | 0.982-0.992 | |
| Tetra | PCB-81 | * | * | n NotF η | 1.33 | * | | 1850 | 2.5 | 0.323 | * | 0.995-1.005 | |
| Tetra | PCB-77 | * | * | n NotF η | 1.10 | * | | 1850 | 2.5 | 0.377 | * | 0.995-1.005 | |
| Penta | PCB-104 | * | * | n NotF η | 1.18 | * | | 1760 | 2.5 | 0.650 | * | 0.996-1.006 | |
| Penta | PCB-96 | * | * | n NotF η | 1.14 | * | | 1760 | 2.5 | 0.676 | * | 1.034-1.044 | |
| Penta | PCB-103 | * | * | n NotF η | 0.96 | * | | 1760 | 2.5 | 0.804 | * | 1.050-1.060 | |
| Penta | PCB-100 | * | * | n NotF η | 0.94 | * | | 1760 | 2.5 | 0.821 | * | 1.061-1.071 | |
| Penta | PCB-94 | * | * | n NotF η | 1.06 | * | | 1760 | 2.5 | 0.973 | * | 0.980-0.990 | |
| Penta | PCB-95/98/102 | * | * | n NotF η | 1.22 | * | | 1760 | 2.5 | 0.840 | * | 0.995-1.005 | |
| Penta | PCB-93 | * | * | n NotF η | 0.84 | * | | 1760 | 2.5 | 1.22 | * | 0.997-1.007 | |
| Penta | PCB-88/91 | * | * | n NotF η | 1.12 | * | | 1760 | 2.5 | 0.921 | * | 1.005-1.015 | |
| Penta | PCB-121 | * | * | n NotF η | 1.62 | * | | 1760 | 2.5 | 0.637 | * | 1.009-1.019 | |
| Penta | PCB-84/92 | * | * | n NotF η | 1.05 | * | | 1760 | 2.5 | 0.870 | * | 0.985-0.995 | |
| Penta | PCB-89 | * | * | n NotF η | 1.13 | * | | 1760 | 2.5 | 0.805 | * | 0.991-1.001 | |

Analyst: mm

Date: 9/23/14

Client ID: Method Blank
Lab ID: B4I0061-BLK1

Filename: 140919E2
GC Column ID: ZB-1

S:6 Acq:20-SEP-14 05:05:04
ICal: PCBVG8-6-23-14 wt/vol:10.000

ConCal: ST140919E2-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|----------------|------|-----|-------------|------|------|------|-------|-----|-------|-----|-------------|-----|
| Penta | PCB-90/101 | * | * n | NotF η | 1.10 | * | | 1760 | 2.5 | 0.827 | * | 0.995-1.005 | |
| Penta | PCB-113 | * | * n | NotF η | 1.41 | * | | 1760 | 2.5 | 0.645 | * | 1.002-1.012 | |
| Penta | PCB-99 | * | * n | NotF η | 1.34 | * | | 1760 | 2.5 | 0.681 | * | 1.004-1.014 | |
| Penta | PCB-119 | * | * n | NotF η | 1.53 | * | | 1760 | 2.5 | 0.627 | * | 0.982-0.992 | |
| Penta | PCB-108/112 | * | * n | NotF η | 1.28 | * | | 1760 | 2.5 | 0.750 | * | 0.986-0.996 | |
| Penta | PCB-83 | * | * n | NotF η | 1.52 | * | | 1760 | 2.5 | 0.632 | * | 0.990-1.000 | |
| Penta | PCB-97 | * | * n | NotF η | 1.18 | * | | 1760 | 2.5 | 0.812 | * | 0.995-1.005 | |
| Penta | PCB-86 | * | * n | NotF η | 0.84 | * | | 1760 | 2.5 | 1.14 | * | 0.999-1.009 | |
| Penta | PCB-87/117/125 | * | * n | NotF η | 1.55 | * | | 1760 | 2.5 | 0.620 | * | 1.002-1.012 | |
| Penta | PCB-111/115 | * | * n | NotF η | 1.63 | * | | 1760 | 2.5 | 0.588 | * | 1.006-1.016 | |
| Penta | PCB-85/116 | * | * n | NotF η | 1.30 | * | | 1760 | 2.5 | 0.737 | * | 1.010-1.020 | |
| Penta | PCB-120 | * | * n | NotF η | 1.68 | * | | 1760 | 2.5 | 0.573 | * | 1.016-1.026 | |
| Penta | PCB-110 | * | * n | NotF η | 1.56 | * | | 1760 | 2.5 | 0.617 | * | 1.020-1.030 | |
| Penta | PCB-82 | * | * n | NotF η | 0.76 | * | | 1760 | 2.5 | 0.966 | * | 0.971-0.981 | |
| Penta | PCB-124 | * | * n | NotF η | 1.47 | * | | 1760 | 2.5 | 0.499 | * | 0.988-0.998 | |
| Penta | PCB-107/109 | * | * n | NotF η | 1.32 | * | | 1760 | 2.5 | 0.555 | * | 0.991-1.001 | |
| Penta | PCB-123 | * | * n | NotF η | 1.17 | * | | 1760 | 2.5 | 0.628 | * | 0.996-1.006 | |
| Penta | PCB-106/118 | * | * n | NotF η | 1.17 | * | | 1760 | 2.5 | 0.633 | * | 0.996-1.006 | |
| Penta | PCB-114 | * | * n | NotF η | 1.30 | * | | 2360 | 2.5 | 0.775 | * | 0.995-1.005 | |
| Penta | PCB-122 | * | * n | NotF η | 1.12 | * | | 2360 | 2.5 | 0.897 | * | 0.999-1.009 | |
| Penta | PCB-105 | * | * n | NotF η | 1.30 | * | | 2360 | 2.5 | 0.738 | * | 0.995-1.005 | |
| Penta | PCB-127 | * | * n | NotF η | 1.33 | * | | 2360 | 2.5 | 0.687 | * | 0.996-1.006 | |
| Penta | PCB-126 | * | * n | NotF η | 1.18 | * | | 2360 | 2.5 | 0.886 | * | 0.995-1.005 | |
| Hexa | PCB-155 | * | * n | NotF η | 1.11 | * | | 1270 | 2.5 | 0.423 | * | 0.966-1.006 | |
| Hexa | PCB-150 | * | * n | NotF η | 1.00 | * | | 1270 | 2.5 | 0.472 | * | 1.030-1.040 | |
| Hexa | PCB-152 | * | * n | NotF η | 1.12 | * | | 1270 | 2.5 | 0.423 | * | 1.043-1.053 | |
| Hexa | PCB-145 | * | * n | NotF η | 1.20 | * | | 1270 | 2.5 | 0.392 | * | 1.055-1.065 | |
| Hexa | PCB-136 | * | * n | NotF η | 1.18 | * | | 1270 | 2.5 | 0.400 | * | 1.064-1.074 | |
| Hexa | PCB-148 | * | * n | NotF η | 0.74 | * | | 1270 | 2.5 | 0.633 | * | 1.066-1.076 | |
| Hexa | PCB-154 | * | * n | NotF η | 0.86 | * | | 1270 | 2.5 | 0.550 | * | 1.080-1.090 | |
| Hexa | PCB-151 | * | * n | NotF η | 0.75 | * | | 1270 | 2.5 | 0.631 | * | 1.097-1.107 | |
| Hexa | PCB-135 | * | * n | NotF η | 0.79 | * | | 1270 | 2.5 | 0.595 | * | 1.103-1.113 | |
| Hexa | PCB-144 | * | * n | NotF η | 0.76 | * | | 1270 | 2.5 | 0.619 | * | 1.105-1.117 | |
| Hexa | PCB-147 | * | * n | NotF η | 0.82 | * | | 1270 | 2.5 | 0.575 | * | 1.109-1.121 | |
| Hexa | PCB-139/149 | * | * n | NotF η | 0.76 | * | | 1270 | 2.5 | 0.619 | * | 1.116-1.128 | |
| Hexa | PCB-140 | * | * n | NotF η | 0.72 | * | | 1270 | 2.5 | 0.653 | * | 1.121-1.133 | |
| Hexa | PCB-134/143 | * | * n | NotF η | 0.92 | * | | 1900 | 2.5 | 0.752 | * | 0.970-0.980 | |

Analyst: MS

Date: 9/23/14

Client ID: Method Blank
Lab ID: B4I0061-BLK1

Filename: 140919E2
GC Column ID: ZB-1

S:6 Acq:20-SEP-14 05:05:04
ICal: PCBVG8-6-23-14 wt/vol:10.000

ConCal: ST140919E2-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-----------------|------|-----|-------------|------|------|------|-------|-----|-------|-----|-------------|-----|
| Hexa | PCB-133/142 | * | * n | NotF η | 0.82 | * | | 1900 | 2.5 | 0.842 | * | 0.977-0.987 | |
| Hexa | PCB-131 | * | * n | NotF η | 0.91 | * | | 1900 | 2.5 | 0.760 | * | 0.981-0.991 | |
| Hexa | PCB-146/165 | * | * n | NotF η | 1.25 | * | | 1900 | 2.5 | 0.553 | * | 0.986-0.996 | |
| Hexa | PCB-132/161 | * | * n | NotF η | 1.10 | * | | 1900 | 2.5 | 0.624 | * | 0.992-1.002 | |
| Hexa | PCB-153 | * | * n | NotF η | 1.25 | * | | 1900 | 2.5 | 0.552 | * | 0.995-1.005 | |
| Hexa | PCB-168 | * | * n | NotF η | 1.45 | * | | 1900 | 2.5 | 0.476 | * | 1.001-1.011 | |
| Hexa | PCB-141 | * | * n | NotF η | 1.09 | * | | 1900 | 2.5 | 0.714 | * | 0.995-1.005 | |
| Hexa | PCB-137 | * | * n | NotF η | 1.06 | * | | 1900 | 2.5 | 0.730 | * | 1.004-1.014 | |
| Hexa | PCB-130 | * | * n | NotF η | 0.96 | * | | 1900 | 2.5 | 0.803 | * | 1.006-1.016 | |
| Hexa | PCB-138/163/164 | * | * n | NotF η | 1.29 | * | | 1900 | 2.5 | 0.550 | * | 0.996-1.006 | |
| Hexa | PCB-158/160 | * | * n | NotF η | 1.34 | * | | 1900 | 2.5 | 0.530 | * | 1.001-1.011 | |
| Hexa | PCB-129 | * | * n | NotF η | 0.85 | * | | 1900 | 2.5 | 0.834 | * | 1.007-1.017 | |
| Hexa | PCB-166 | * | * n | NotF η | 1.19 | * | | 1900 | 2.5 | 0.541 | * | 0.988-0.998 | |
| Hexa | PCB-159 | * | * n | NotF η | 1.11 | * | | 1900 | 2.5 | 0.577 | * | 0.996-1.006 | |
| Hexa | PCB-128/162 | * | * n | NotF η | 1.05 | * | | 1900 | 2.5 | 0.613 | * | 1.002-1.012 | |
| Hexa | PCB-167 | * | * n | NotF η | 1.20 | * | | 1900 | 2.5 | 0.482 | * | 0.995-1.005 | |
| Hexa | PCB-156 | * | * n | NotF η | 1.14 | * | | 1900 | 2.5 | 0.546 | * | 0.996-1.006 | |
| Hexa | PCB-157 | * | * n | NotF η | 1.16 | * | | 1900 | 2.5 | 0.517 | * | 0.995-1.005 | |
| Hexa | PCB-169 | * | * n | NotF η | 1.12 | * | | 1900 | 2.5 | 0.560 | * | 0.995-1.005 | |
| Hepta | PCB-188 | * | * n | NotF η | 1.58 | * | | 1660 | 2.5 | 0.275 | * | 0.996-1.006 | |
| Hepta | PCB-184 | * | * n | NotF η | 1.63 | * | | 1660 | 2.5 | 0.266 | * | 1.006-1.016 | |
| Hepta | PCB-179 | * | * n | NotF η | 1.30 | * | | 1660 | 2.5 | 0.333 | * | 1.024-1.034 | |
| Hepta | PCB-176 | * | * n | NotF η | 1.48 | * | | 1660 | 2.5 | 0.294 | * | 1.035-1.045 | |
| Hepta | PCB-186 | * | * n | NotF η | 1.45 | * | | 1660 | 2.5 | 0.299 | * | 1.050-1.060 | |
| Hepta | PCB-178 | * | * n | NotF η | 1.03 | * | | 1660 | 2.5 | 0.420 | * | 1.061-1.071 | |
| Hepta | PCB-175 | * | * n | NotF η | 1.01 | * | | 1660 | 2.5 | 0.429 | * | 1.069-1.079 | |
| Hepta | PCB-182/187 | * | * n | NotF η | 1.25 | * | | 1660 | 2.5 | 0.347 | * | 1.073-1.083 | |
| Hepta | PCB-183 | * | * n | NotF η | 1.21 | * | | 1660 | 2.5 | 0.359 | * | 1.081-1.091 | |
| Hepta | PCB-185 | * | * n | NotF η | 1.80 | * | | 1660 | 2.5 | 0.320 | * | 0.951-0.961 | |
| Hepta | PCB-174 | * | * n | NotF η | 1.38 | * | | 1660 | 2.5 | 0.418 | * | 0.958-0.968 | |
| Hepta | PCB-181 | * | * n | NotF η | 1.38 | * | | 1660 | 2.5 | 0.417 | * | 0.960-0.970 | |
| Hepta | PCB-177 | * | * n | NotF η | 1.26 | * | | 1660 | 2.5 | 0.459 | * | 0.963-0.973 | |
| Hepta | PCB-171 | * | * n | NotF η | 1.58 | * | | 1660 | 2.5 | 0.364 | * | 0.970-0.980 | |
| Hepta | PCB-173 | * | * n | NotF η | 1.11 | * | | 1660 | 2.5 | 0.519 | * | 0.978-0.988 | |
| Hepta | PCB-172 | * | * n | NotF η | 1.63 | * | | 1660 | 2.5 | 0.352 | * | 0.987-0.997 | |
| Hepta | PCB-192 | * | * n | NotF η | 1.74 | * | | 1660 | 2.5 | 0.331 | * | 0.991-1.001 | |
| Hepta | PCB-180 | * | * n | NotF η | 1.34 | * | | 1660 | 2.5 | 0.428 | * | 0.995-1.005 | |

Analyst: vm

Date: 9/23/14

Client ID: Method Blank
Lab ID: B4I0061-BLK1

Filename: 140919E2
GC Column ID: ZB-1

S:6 Acq:20-SEP-14 05:05:04
ICal: PCBVG8-6-23-14 wt/vol:10.000

ConCal: ST140919E2-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-------------|------|-----|-------------|------|------|------|-------|-----|-------|-----|-------------|-----|
| Hepta | PCB-193 | * | * n | NotF η | 1.72 | * | | 1660 | 2.5 | 0.336 | * | 0.999-1.009 | |
| Hepta | PCB-191 | * | * n | NotF η | 1.69 | * | | 1660 | 2.5 | 0.340 | * | 1.004-1.014 | |
| Hepta | PCB-170 | * | * n | NotF η | 1.60 | * | | 1660 | 2.5 | 0.410 | * | 0.995-1.005 | |
| Hepta | PCB-190 | * | * n | NotF η | 2.21 | * | | 1660 | 2.5 | 0.297 | * | 0.998-1.008 | |
| Hepta | PCB-189 | * | * n | NotF η | 1.55 | * | | 1660 | 2.5 | 0.329 | * | 0.995-1.005 | |
| Octa | PCB-202 | * | * n | NotF η | 1.08 | * | | 1510 | 2.5 | 0.459 | * | 0.995-1.005 | |
| Octa | PCB-201 | * | * n | NotF η | 1.15 | * | | 1510 | 2.5 | 0.432 | * | 1.005-1.015 | |
| Octa | PCB-204 | * | * n | NotF η | 1.14 | * | | 1510 | 2.5 | 0.436 | * | 1.008-1.018 | |
| Octa | PCB-197 | * | * n | NotF η | 1.07 | * | | 1510 | 2.5 | 0.462 | * | 1.015-1.025 | |
| Octa | PCB-200 | * | * n | NotF η | 1.06 | * | | 1510 | 2.5 | 0.467 | * | 1.032-1.044 | |
| Octa | PCB-198 | * | * n | NotF η | 0.76 | * | | 1510 | 2.5 | 0.658 | * | 1.059-1.069 | |
| Octa | PCB-199 | * | * n | NotF η | 0.80 | * | | 1510 | 2.5 | 0.623 | * | 1.061-1.071 | |
| Octa | PCB-196/203 | * | * n | NotF η | 0.80 | * | | 1510 | 2.5 | 0.620 | * | 1.066-1.076 | |
| Octa | PCB-195 | * | * n | NotF η | 1.23 | * | | 1480 | 2.5 | 0.496 | * | 0.979-0.989 | |
| Octa | PCB-194 | * | * n | NotF η | 1.21 | * | | 1480 | 2.5 | 0.502 | * | 0.995-1.005 | |
| Octa | PCB-205 | * | * n | NotF η | 1.54 | * | | 1480 | 2.5 | 0.394 | * | 1.001-1.011 | |
| Nona | PCB-208 | * | * n | NotF η | 0.93 | * | | 1160 | 2.5 | 0.303 | * | 0.995-1.005 | |
| Nona | PCB-207 | * | * n | NotF η | 1.08 | * | | 1160 | 2.5 | 0.260 | * | 1.001-1.011 | |
| Nona | PCB-206 | * | * n | NotF η | 1.02 | * | | 1160 | 2.5 | 0.610 | * | 0.995-1.005 | |
| Deca | PCB-209 | * | * n | NotF η | 1.17 | * | | 2100 | 1.0 | 0.485 | * | 0.995-1.005 | |

Analyst: VM

Date: 9/23/14

Client ID: Method Blank
Lab ID: B4I0061-BLK1

Filename: 140919E2 S:6 Acq:20-SEP-14 05:05:04
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 10.0000 EndCAL: NA

ConCal: ST140919E2-1

Page 3 of

| 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 | * | * n | NotFnd | 1.42 | * |
| 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:0.0000000000

Integrations

by
Analyst: *MS*

Date: 9/23/14

Client ID: Method Blank
Lab ID: B4I0061-BLK1

Filename: 140919E2 S:6 Acq:20-SEP-14 05:05:04
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:10.000

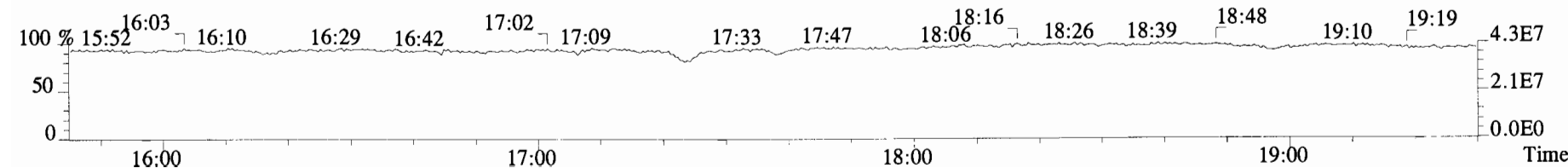
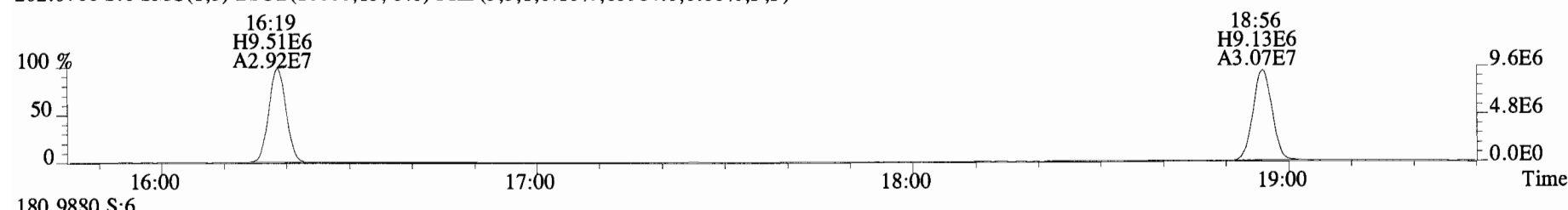
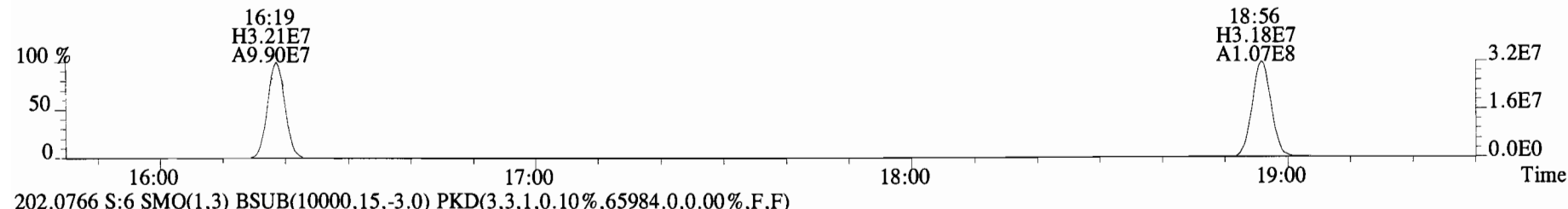
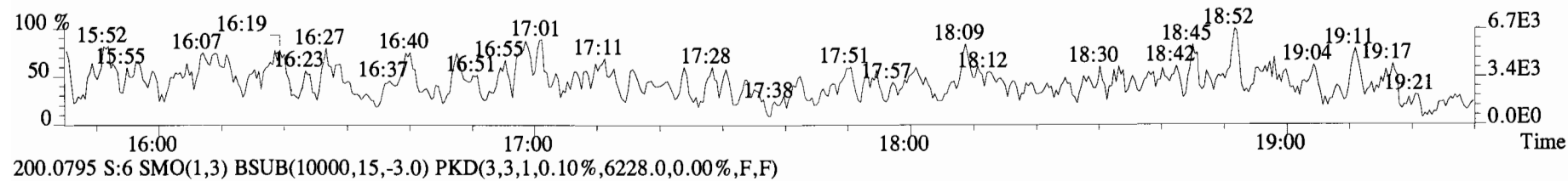
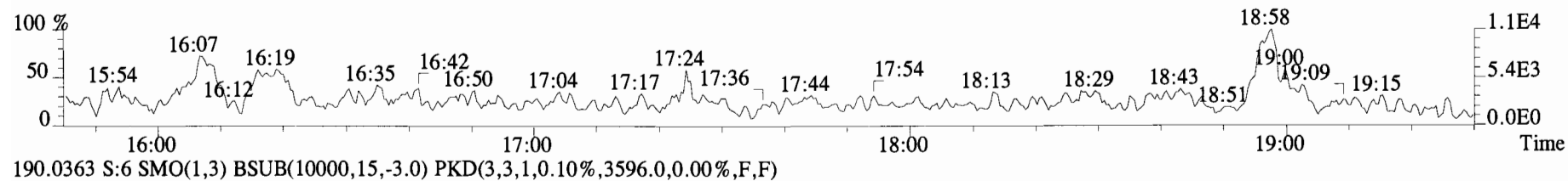
ConCal: ST140919E2-1
EndCAL: NA

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec | CRS vs. RS | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec |
|-------------|----------|--------|------|-------|-------|-------------|-----|------|------|------------|-------------|----------|--------|------|-------|-------|-------------|------|------|-----|
| 13C-PCB-1 | 1.28e+08 | 3.39 y | 0.87 | 16:19 | 0.624 | 0.629-0.635 | | 907 | 90.7 | | | | | | | | | | | |
| 13C-PCB-3 | 1.38e+08 | 3.50 y | 0.91 | 18:56 | 0.724 | 0.725-0.733 | | 934 | 93.4 | | 13C-PCB-79 | 1.12e+08 | 0.85 y | 1.02 | 38:00 | 1.028 | 1.023-1.034 | 800 | 80.0 | |
| 13C-PCB-4 | 6.14e+07 | 1.59 y | 0.59 | 20:16 | 0.776 | 0.775-0.783 | | 646 | 64.6 | | 13C-PCB-178 | 4.88e+07 | 0.47 y | 0.61 | 45:50 | 0.985 | 0.979-0.990 | 908 | 90.8 | |
| 13C-PCB-9 | 9.62e+07 | 1.59 y | 0.90 | 22:03 | 0.844 | 0.842-0.850 | | 662 | 66.2 | | | | | | | | | | | |
| 13C-PCB-11 | 1.06e+08 | 1.58 y | 0.94 | 25:26 | 0.973 | 0.968-0.978 | | 696 | 69.6 | | | | | | | | | | | |
| 13C-PCB-32 | 1.11e+08 | 1.12 y | 0.80 | 27:20 | 1.046 | 1.040-1.050 | | 860 | 86.0 | | | | | | | | | | | |
| 13C-PCB-19 | 7.12e+07 | 1.11 y | 0.53 | 24:25 | 0.934 | 0.930-0.940 | | 826 | 82.6 | | 13C-PCB-79 | 1.12e+08 | 0.85 y | 1.10 | 38:00 | 0.969 | 0.964-0.974 | 1020 | 102 | |
| 13C-PCB-28 | 9.16e+07 | 1.11 y | 0.93 | 29:17 | 1.003 | 0.999-1.009 | | 686 | 68.6 | | 13C-PCB-178 | 4.88e+07 | 0.47 y | 0.90 | 45:50 | 0.925 | 0.920-0.930 | 1040 | 104 | |
| 13C-PCB-52 | 7.47e+07 | 0.85 y | 0.77 | 31:42 | 0.858 | 0.853-0.861 | | 705 | 70.5 | | | | | | | | | | | |
| 13C-PCB-54 | 8.68e+07 | 0.85 y | 0.97 | 28:10 | 0.762 | 0.758-0.766 | | 651 | 65.1 | | | | | | | | | | | |
| 13C-PCB-37 | 9.17e+07 | 1.14 y | 0.84 | 33:10 | 1.136 | 1.131-1.143 | | 762 | 76.2 | | | | | | | | | | | |
| 13C-PCB-47 | 8.00e+07 | 0.84 y | 0.81 | 32:12 | 0.871 | 0.866-0.874 | | 717 | 71.7 | | | | | | | | | | | |
| 13C-PCB-81 | 9.96e+07 | 0.85 y | 0.92 | 39:14 | 1.062 | 1.057-1.067 | | 787 | 78.7 | | | | | | | | | | | |
| 13C-PCB-70 | 1.04e+08 | 0.85 y | 1.00 | 35:43 | 0.967 | 0.961-0.971 | | 757 | 75.7 | | | | | | | | | | | |
| 13C-PCB-80 | 1.10e+08 | 0.85 y | 1.03 | 36:07 | 0.977 | 0.972-0.982 | | 774 | 77.4 | | | | | | | | | | | |
| 13C-PCB-104 | 7.09e+07 | 1.63 y | 1.00 | 32:51 | 0.833 | 0.828-0.836 | | 695 | 69.5 | | | | | | | | | | | |
| 13C-PCB-101 | 6.10e+07 | 1.64 y | 0.78 | 37:41 | 0.956 | 0.951-0.961 | | 765 | 76.5 | | | | | | | | | | | |
| 13C-PCB-95 | 5.52e+07 | 1.62 y | 0.74 | 36:01 | 0.914 | 0.908-0.918 | | 732 | 73.2 | | | | | | | | | | | |
| 13C-PCB-77 | 1.01e+08 | 0.84 y | 0.94 | 39:50 | 1.078 | 1.073-1.083 | | 781 | 78.1 | | | | | | | | | | | |
| 13C-PCB-114 | 7.99e+07 | 1.71 y | 1.36 | 42:23 | 0.910 | 0.905-0.915 | | 669 | 66.9 | | 13C-PCB-15 | 1.62e+08 | 1.58 y | 1.00 | 26:08 | | | 1000 | | |
| 13C-PCB-118 | 7.78e+07 | 1.65 y | 0.96 | 41:44 | 1.059 | 1.054-1.064 | | 797 | 79.7 | | 13C-PCB-31 | 1.43e+08 | 1.09 y | 1.00 | 29:11 | | | 1000 | | |
| 13C-PCB-123 | 7.54e+07 | 1.59 y | 0.89 | 41:33 | 1.054 | 1.050-1.060 | | 828 | 82.8 | | 13C-PCB-60 | 1.37e+08 | 0.85 y | 1.00 | 36:57 | | | 1000 | | |
| 13C-PCB-97 | 5.75e+07 | 1.63 y | 0.70 | 39:00 | 0.989 | 0.984-0.994 | | 802 | 80.2 | | 13C-PCB-111 | 1.02e+08 | 1.63 y | 1.00 | 39:25 | | | 1000 | | |
| 13C-PCB-127 | 8.57e+07 | 1.68 y | 1.47 | 43:35 | 0.936 | 0.931-0.941 | | 664 | 66.4 | | 13C-PCB-128 | 8.76e+07 | 1.32 y | 1.00 | 46:33 | | | 1000 | | |
| 13C-PCB-105 | 7.97e+07 | 1.66 y | 1.37 | 43:15 | 0.929 | 0.924-0.934 | | 666 | 66.6 | | 13C-PCB-205 | 7.41e+07 | 0.91 y | 1.00 | 54:16 | | | 1000 | | |
| 13C-PCB-141 | 7.29e+07 | 1.33 y | 1.07 | 44:08 | 0.948 | 0.943-0.953 | | 775 | 77.5 | | | | | | | | | | | |
| 13C-PCB-153 | 7.80e+07 | 1.34 y | 1.15 | 43:24 | 0.932 | 0.927-0.937 | | 776 | 77.6 | | | | | | | | | | | |
| 13C-PCB-155 | 7.30e+07 | 1.28 y | 0.84 | 37:14 | 0.945 | 0.939-0.949 | | 854 | 85.4 | | | | | | | | | | | |
| 13C-PCB-126 | 7.60e+07 | 1.67 y | 1.31 | 45:29 | 0.977 | 0.972-0.982 | | 664 | 66.4 | | | | | | | | | | | |
| 13C-PCB-167 | 9.40e+07 | 1.32 y | 1.35 | 46:57 | 1.009 | 1.004-1.014 | | 794 | 79.4 | | | | | | | | | | | |
| 13C-PCB-156 | 8.84e+07 | 1.32 y | 1.30 | 48:15 | 1.037 | 1.032-1.042 | | 778 | 77.8 | | | | | | | | | | | |
| 13C-PCB-138 | 7.57e+07 | 1.30 y | 1.10 | 44:59 | 0.966 | 0.961-0.971 | | 786 | 78.6 | | | | | | | | | | | |
| 13C-PCB-159 | 8.61e+07 | 1.31 y | 1.25 | 46:16 | 0.994 | 0.989-0.999 | | 787 | 78.7 | | | | | | | | | | | |
| 13C-PCB-157 | 9.59e+07 | 1.35 y | 1.36 | 48:31 | 1.042 | 1.038-1.048 | | 806 | 80.6 | | | | | | | | | | | |
| 13C-PCB-180 | 5.22e+07 | 0.46 y | 0.68 | 49:32 | 1.064 | 1.060-1.070 | | 872 | 87.2 | | | | | | | | | | | |
| 13C-PCB-188 | 6.74e+07 | 0.46 y | 0.92 | 43:03 | 0.925 | 0.919-0.929 | | 838 | 83.8 | | | | | | | | | | | |
| 13C-PCB-169 | 8.60e+07 | 1.31 y | 1.29 | 50:39 | 1.088 | 1.083-1.093 | | 763 | 76.3 | | | | | | | | | | | |
| 13C-PCB-170 | 4.24e+07 | 0.47 y | 0.54 | 51:00 | 1.096 | 1.089-1.101 | | 892 | 89.2 | | | | | | | | | | | |
| 13C-PCB-202 | 7.31e+07 | 0.93 y | 0.84 | 48:27 | 1.041 | 1.036-1.046 | | 996 | 99.6 | | | | | | | | | | | |
| 13C-PCB-189 | 5.23e+07 | 0.47 y | 0.72 | 52:29 | 1.127 | 1.120-1.132 | | 833 | 83.3 | | | | | | | | | | | |
| 13C-PCB-208 | 6.93e+07 | 0.77 y | 1.08 | 53:16 | 0.982 | 0.976-0.986 | | 866 | 86.6 | | | | | | | | | | | |
| 13C-PCB-194 | 5.02e+07 | 0.94 y | 0.80 | 53:59 | 0.995 | 0.990-1.000 | | 850 | 85.0 | | | | | | | | | | | |
| 13C-PCB-206 | 4.18e+07 | 0.79 y | 0.65 | 55:38 | 1.025 | 1.021-1.031 | | 868 | 86.8 | | | | | | | | | | | |
| 13C-PCB-209 | 4.24e+07 | 1.20 y | 0.61 | 56:59 | 1.050 | 1.045-1.055 | | 938 | 93.8 | | | | | | | | | | | |

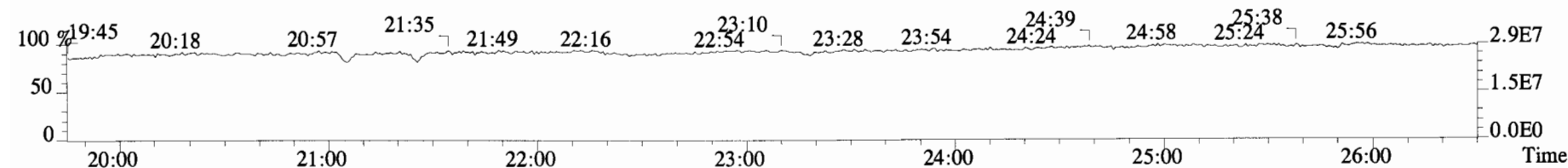
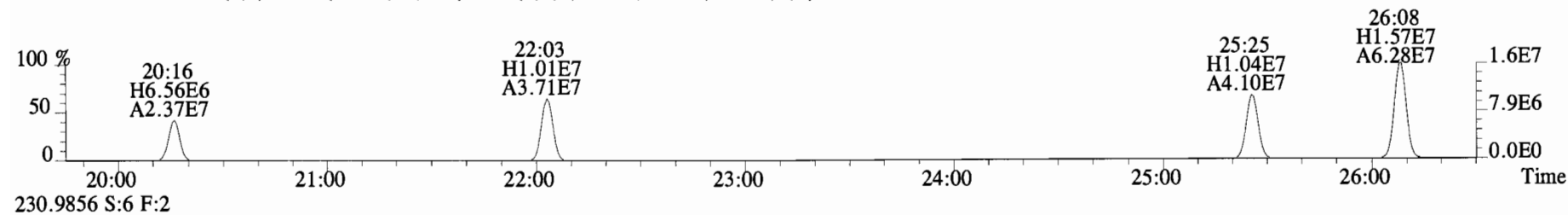
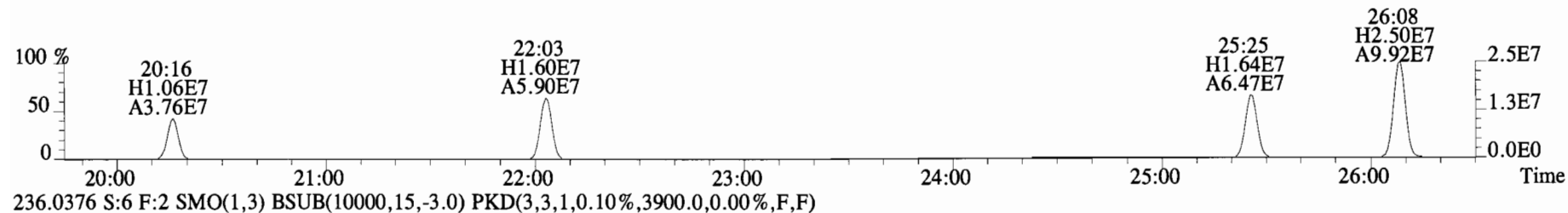
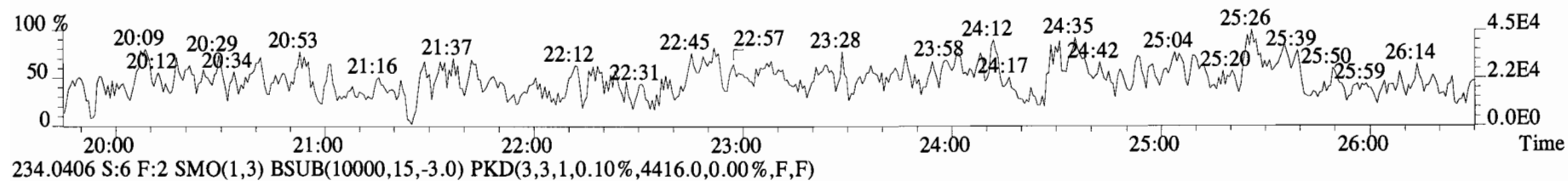
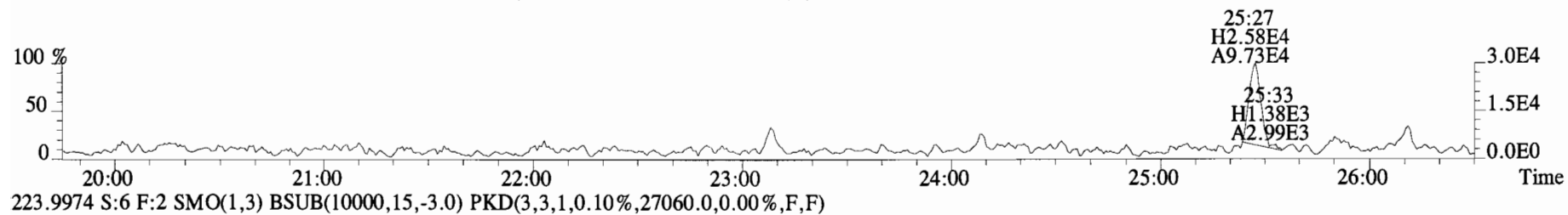
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Date: 9/23/14

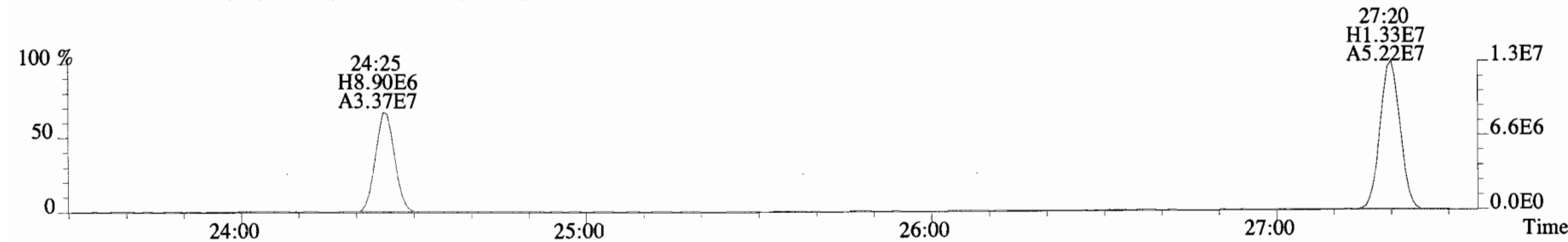
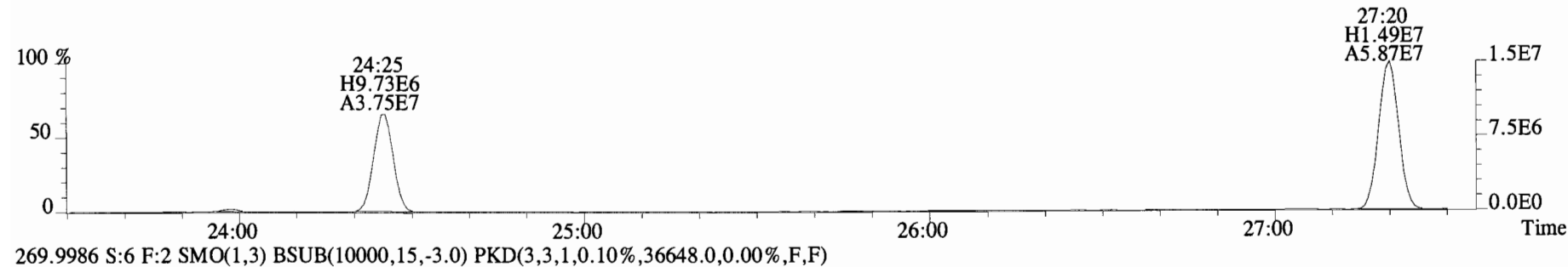
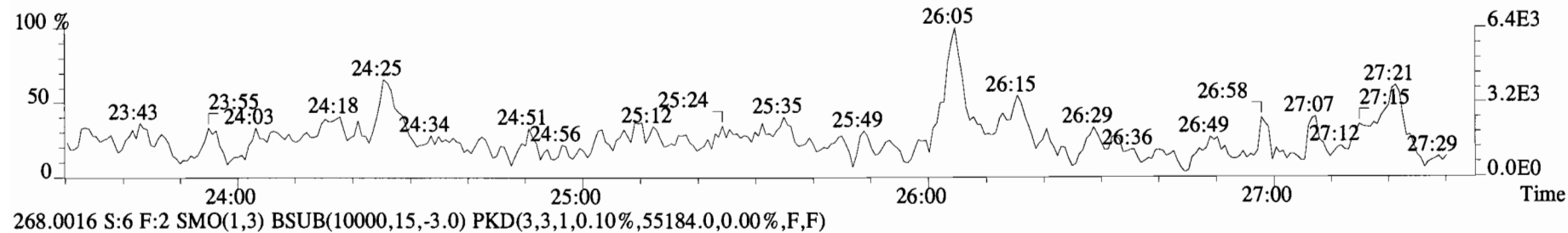
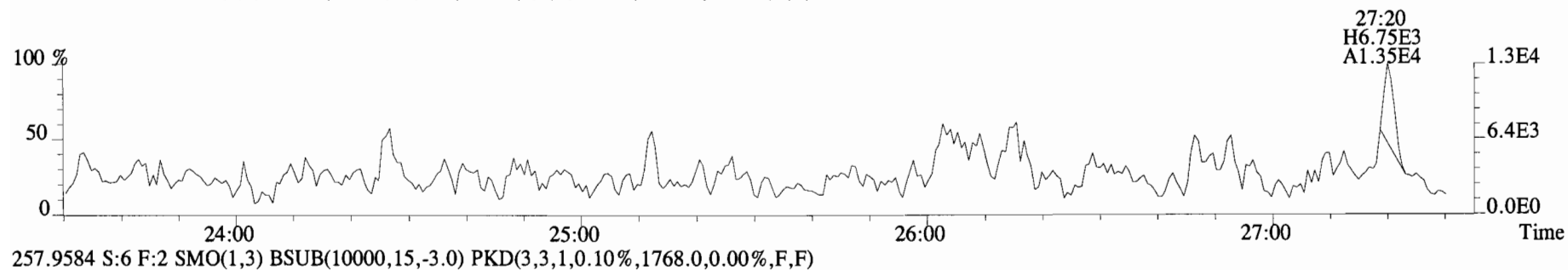
File:140919E2 #1-729 Acq:20-SEP-2014 05:05:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
188.0393 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3320.0,0.00%,F,F)



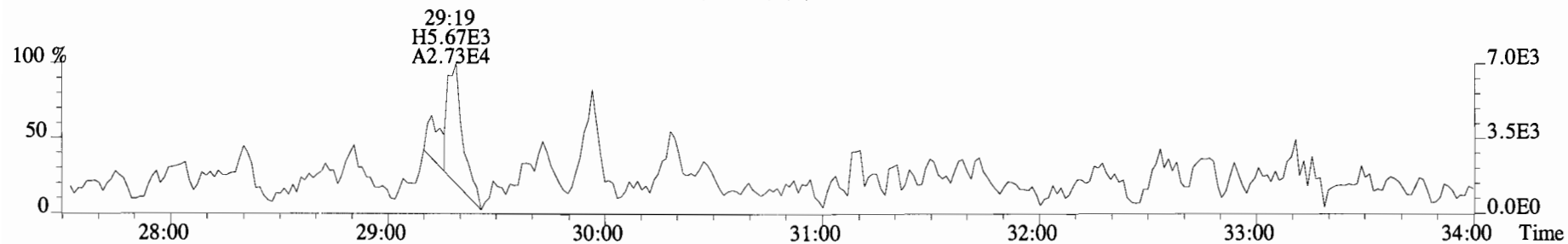
File:140919E2 #1-757 Acq:20-SEP-2014 05:05:04 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
 222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3692.0,0.00%,F,F)



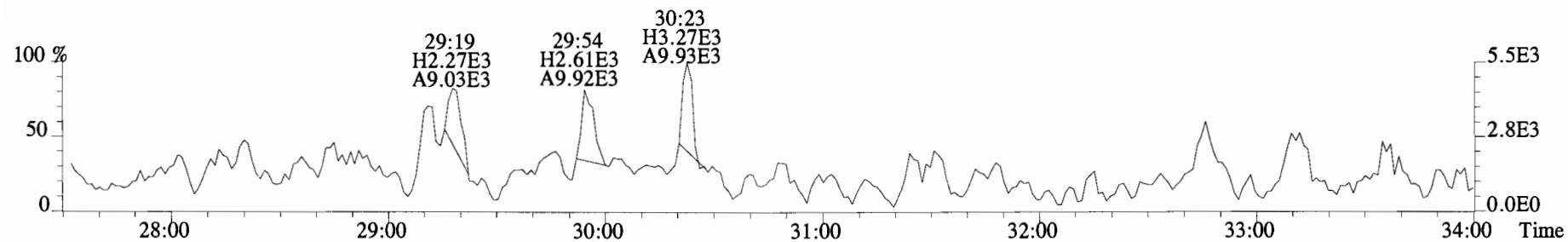
File:140919E2 #1-757 Acq:20-SEP-2014 05:05:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
255.9613 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4012.0,0.00%,F,F)



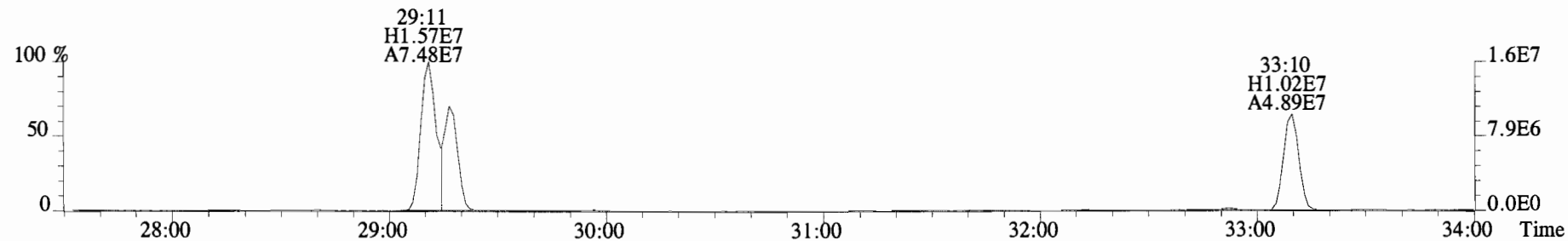
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Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
255.9613 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1912.0,0.00%,F,F)



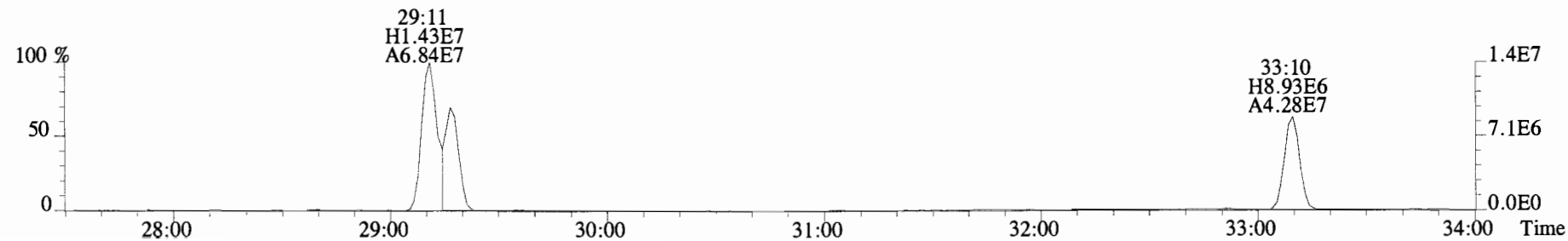
257.9584 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1612.0,0.00%,F,F)



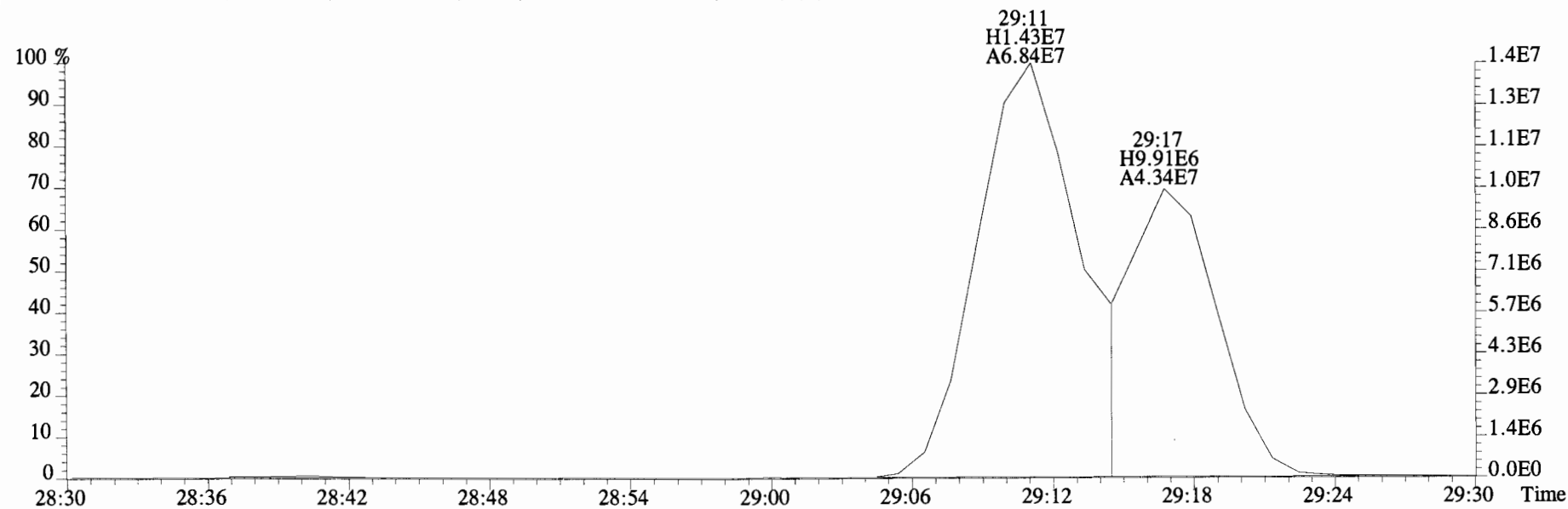
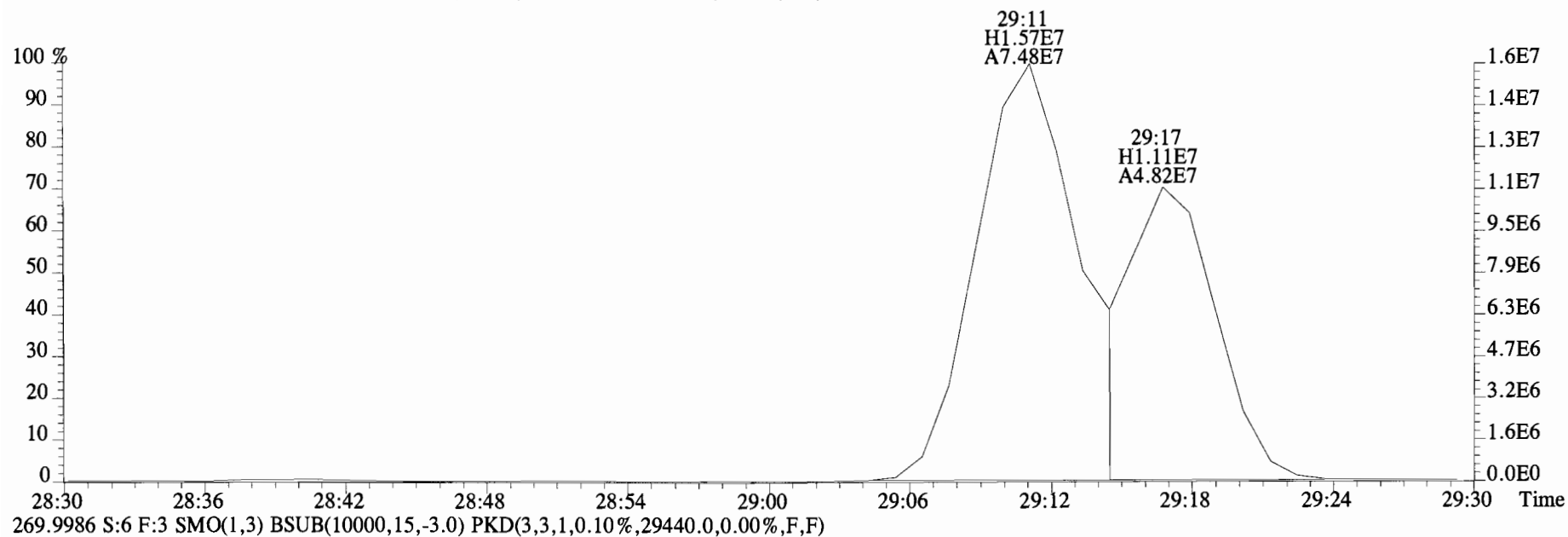
268.0016 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,43164.0,0.00%,F,F)



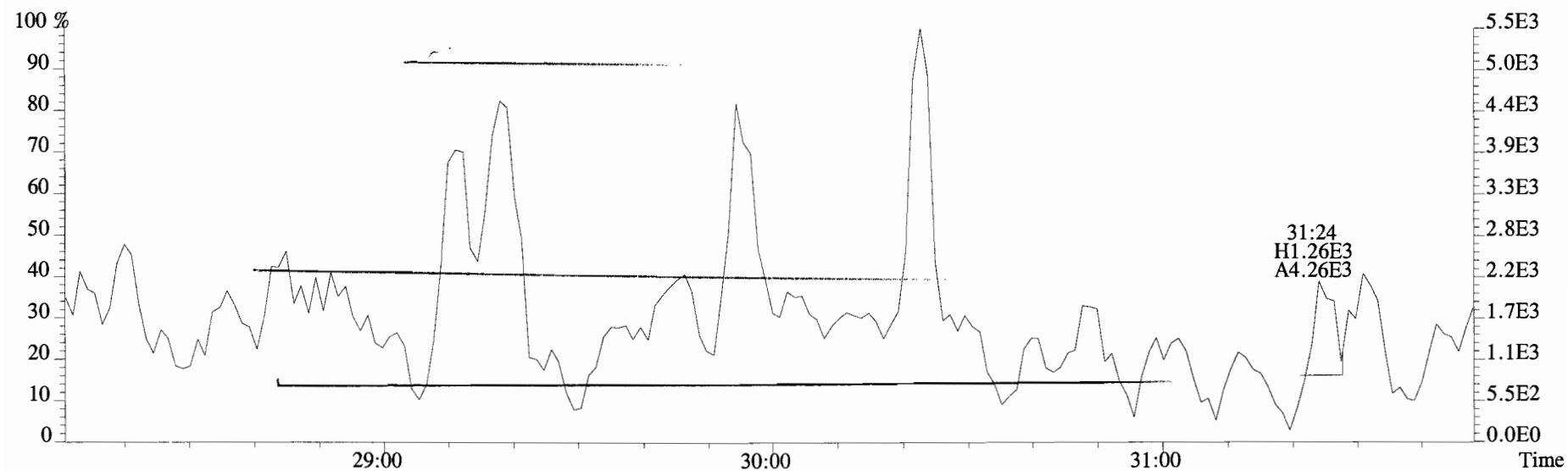
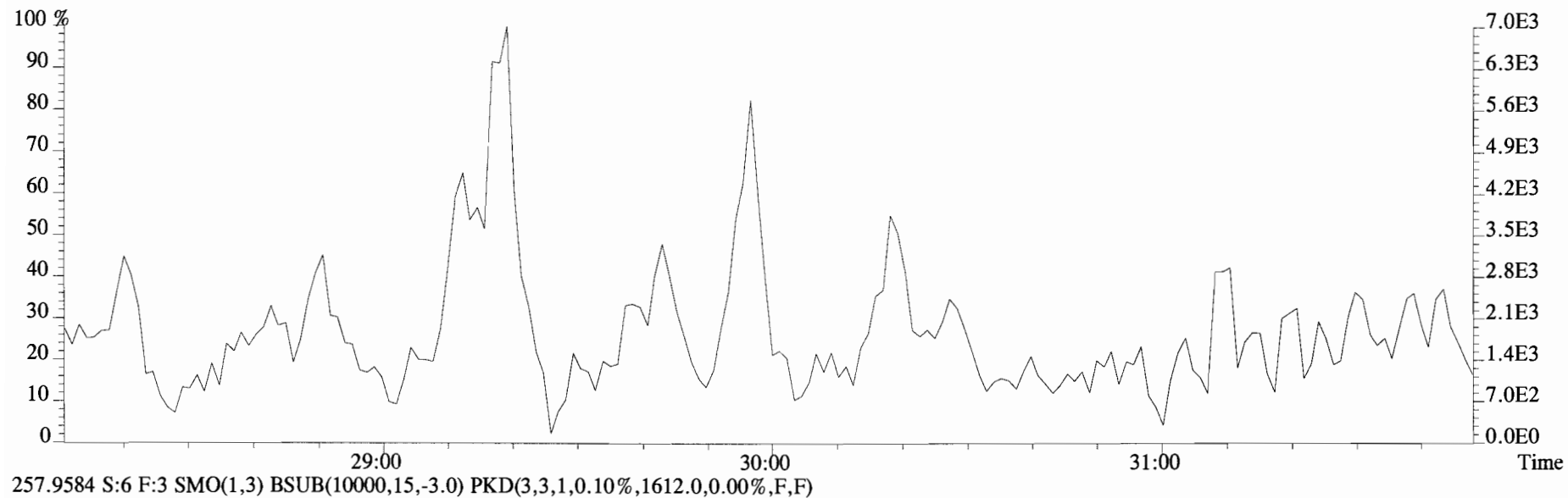
269.9986 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,29440.0,0.00%,F,F)



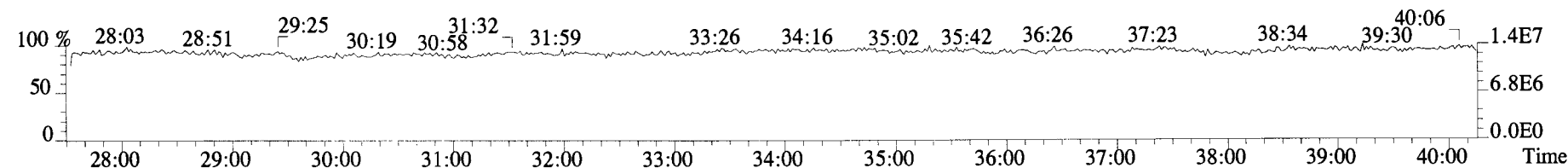
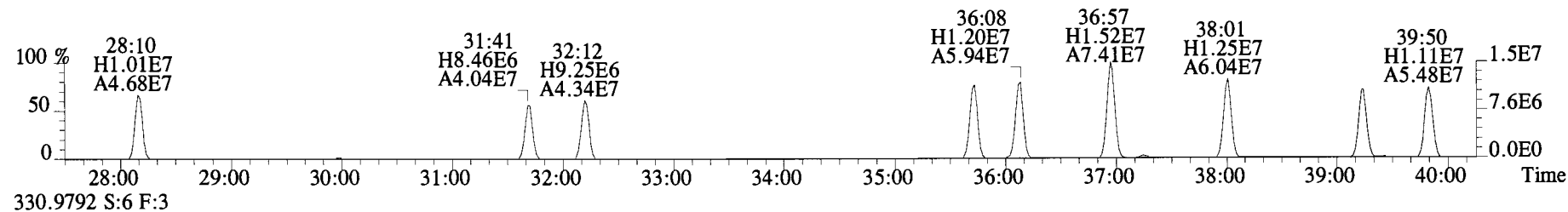
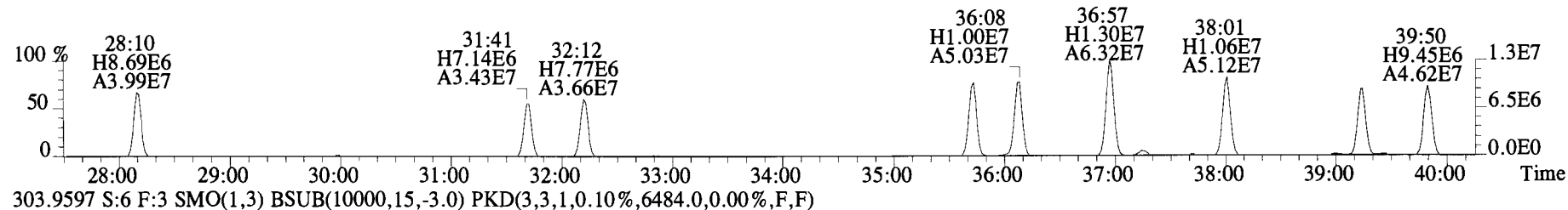
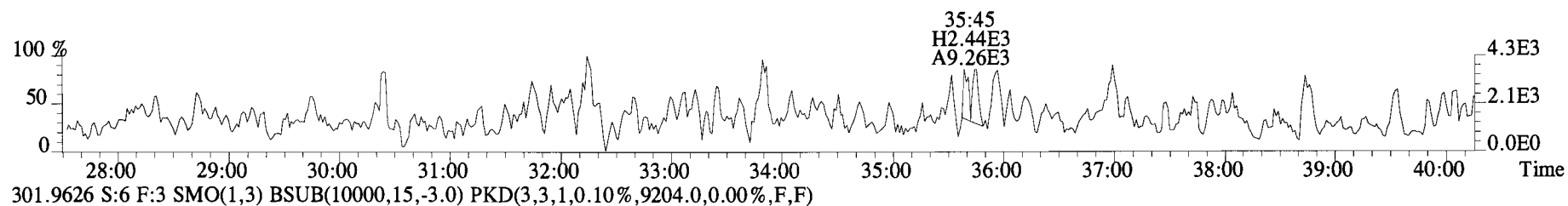
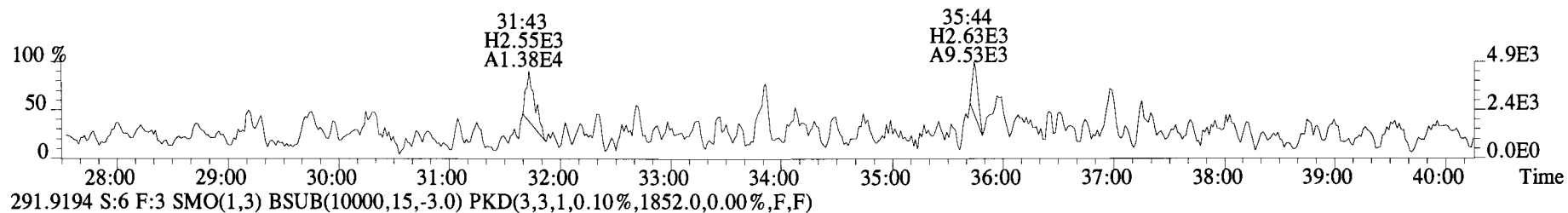
File:140919E2 #1-770 Acq:20-SEP-2014 05:05:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
268.0016 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,43164.0,0.00%,F,F)



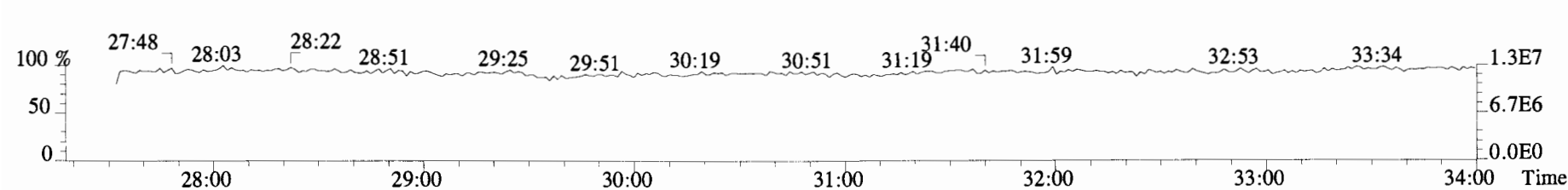
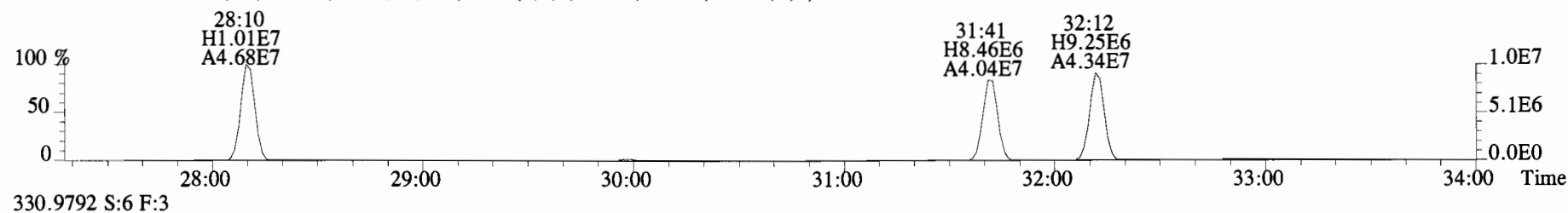
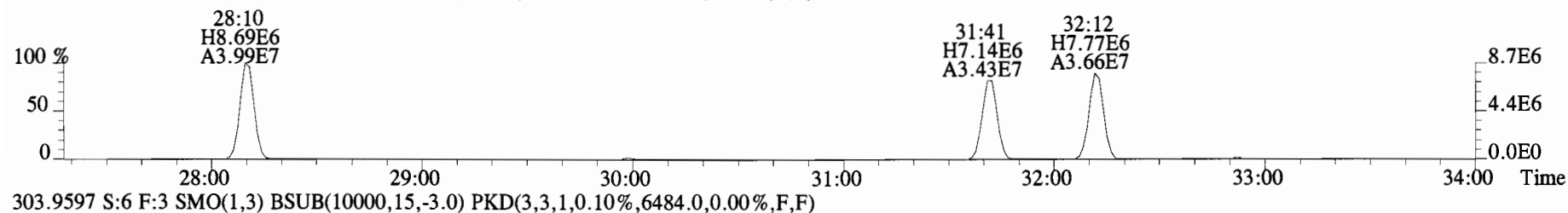
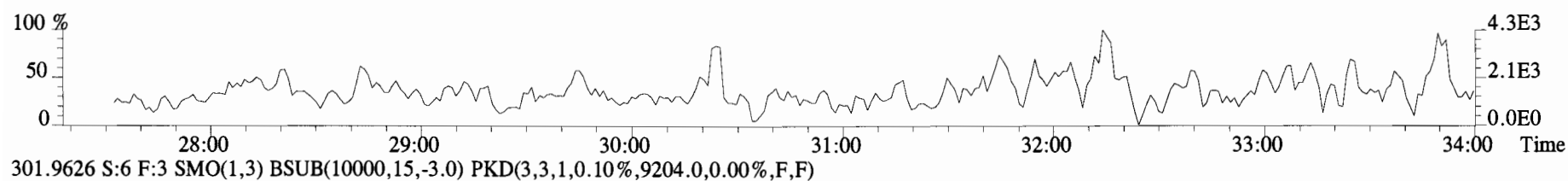
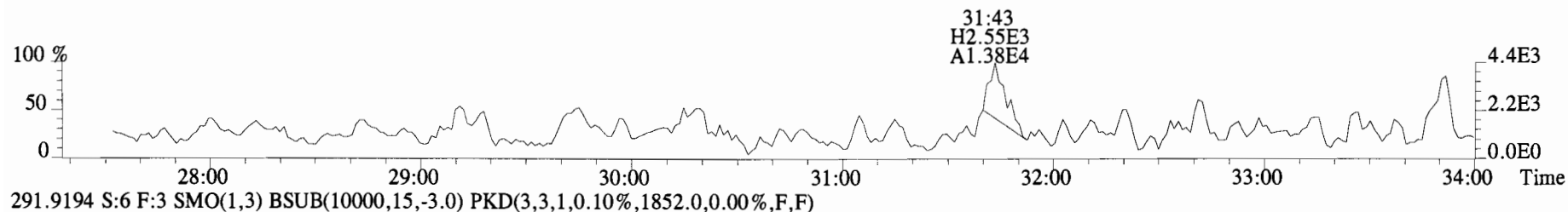
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255.9613 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1912.0,0.00%,F,F)



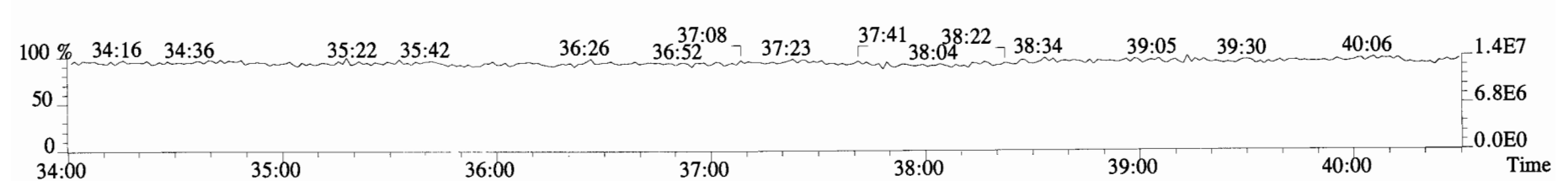
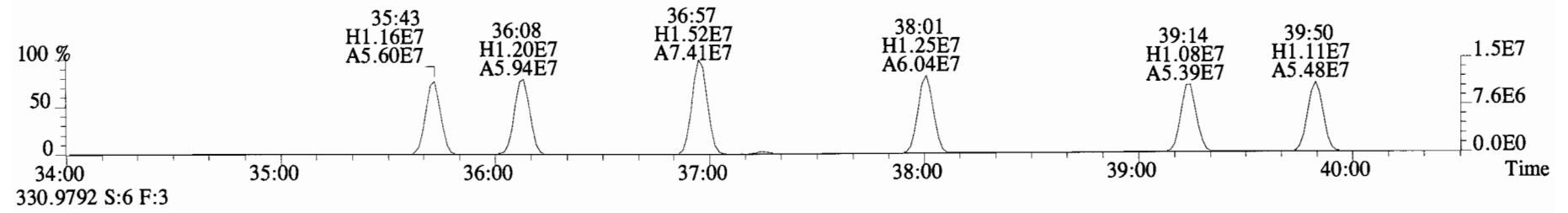
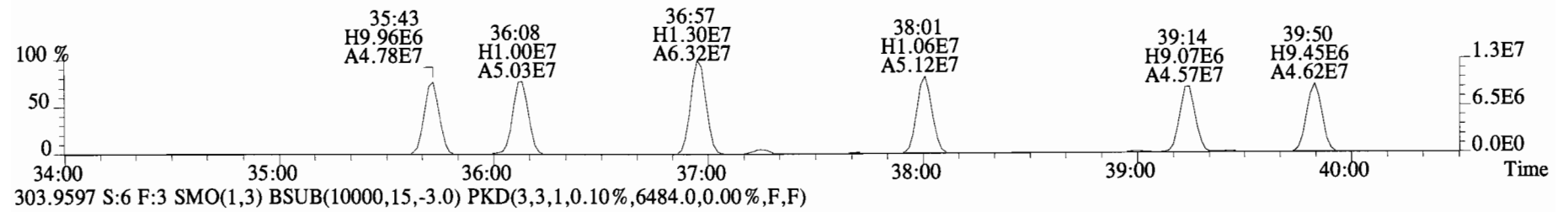
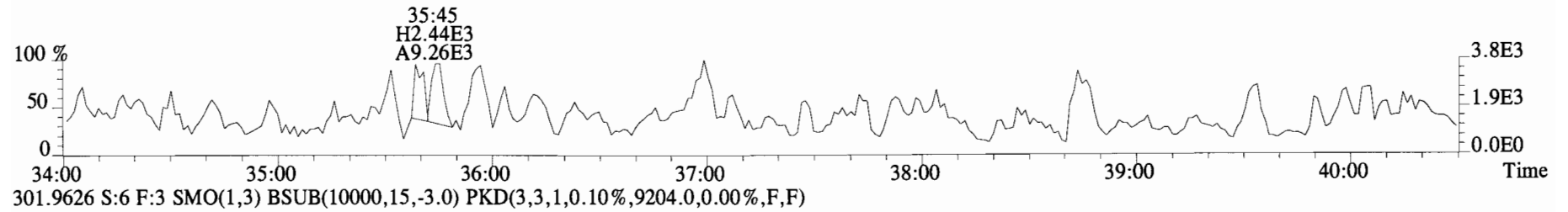
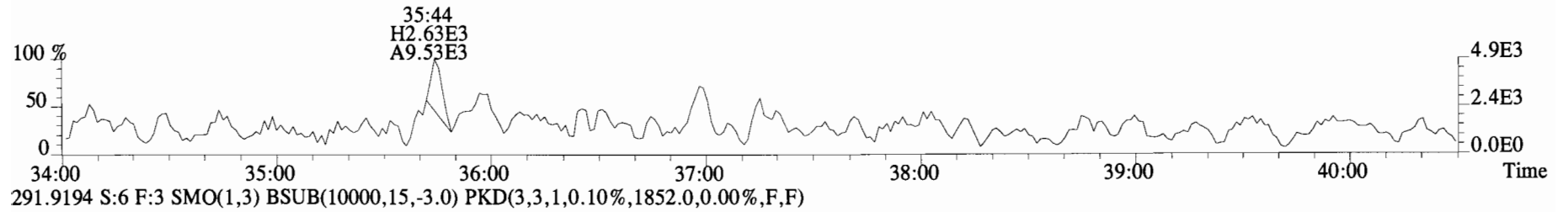
File:140919E2 #1-770 Acq:20-SEP-2014 05:05:04 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
 289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1524.0,0.00%,F,F)



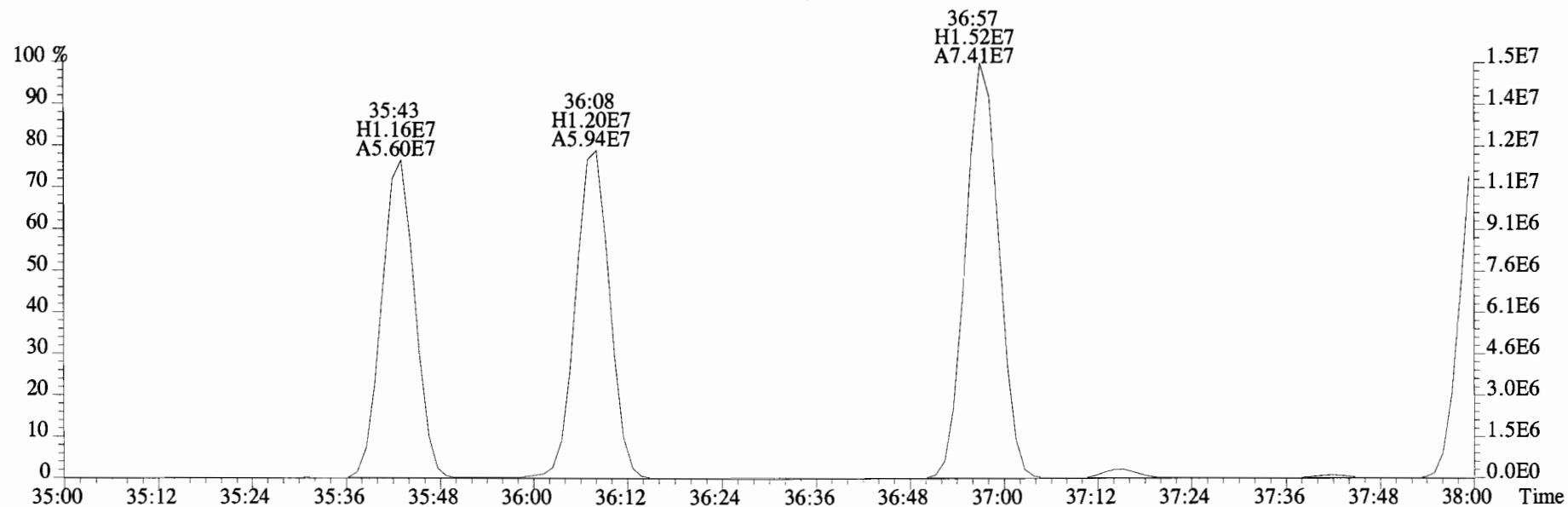
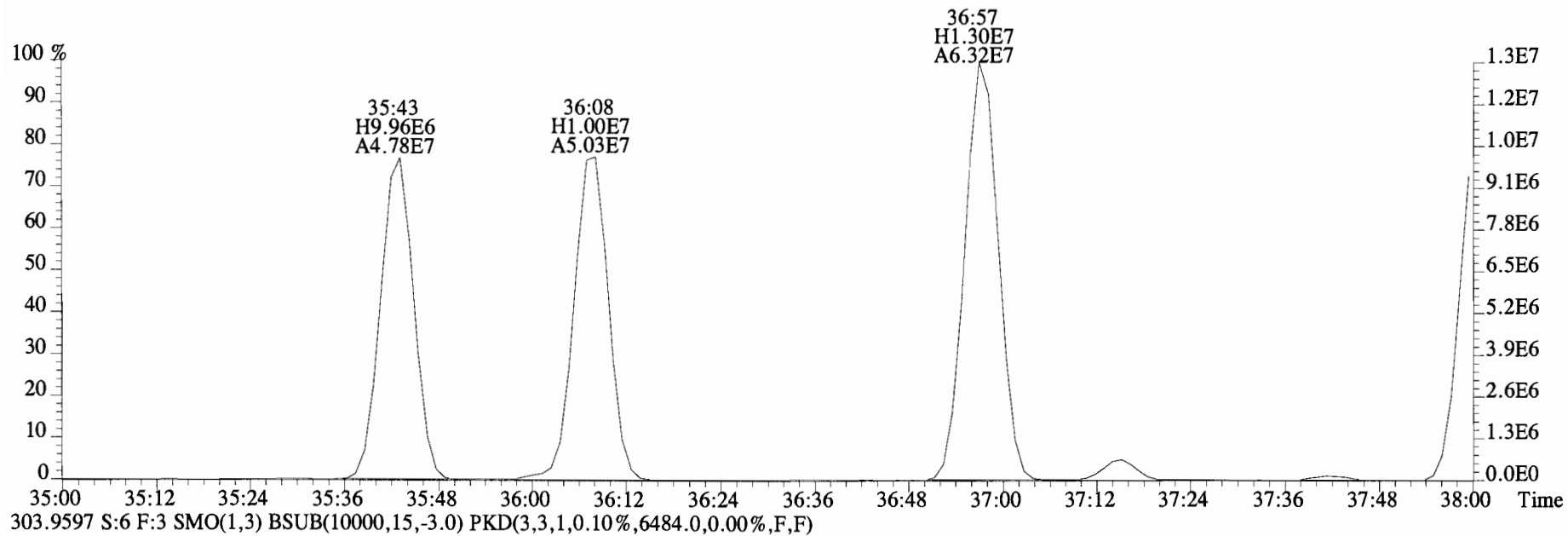
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1524.0,0.00%,F,F)



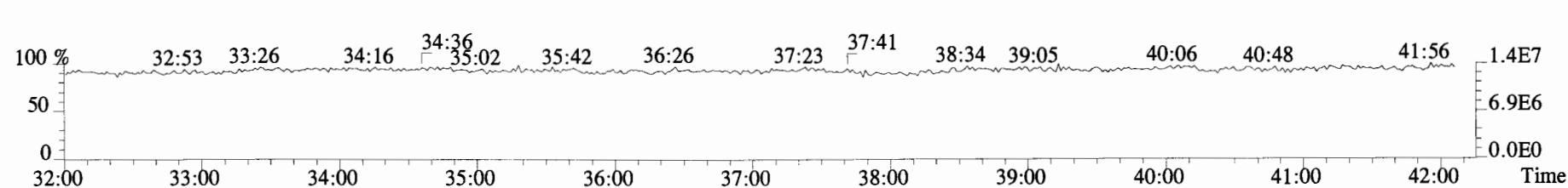
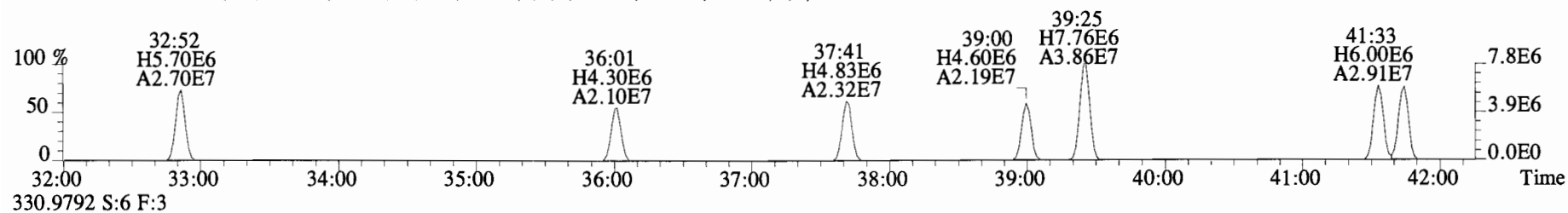
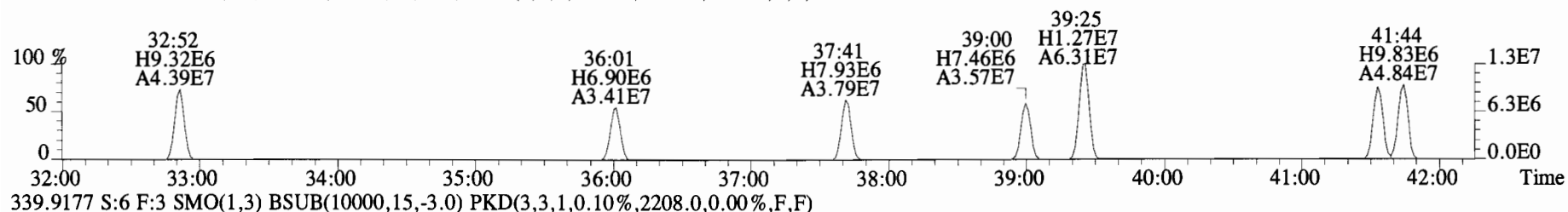
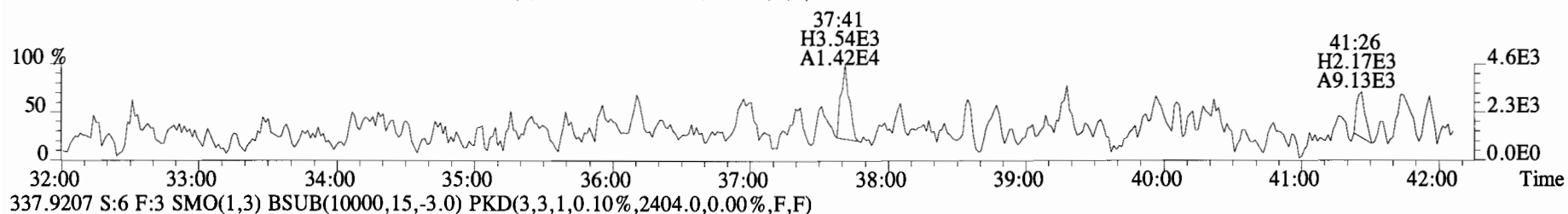
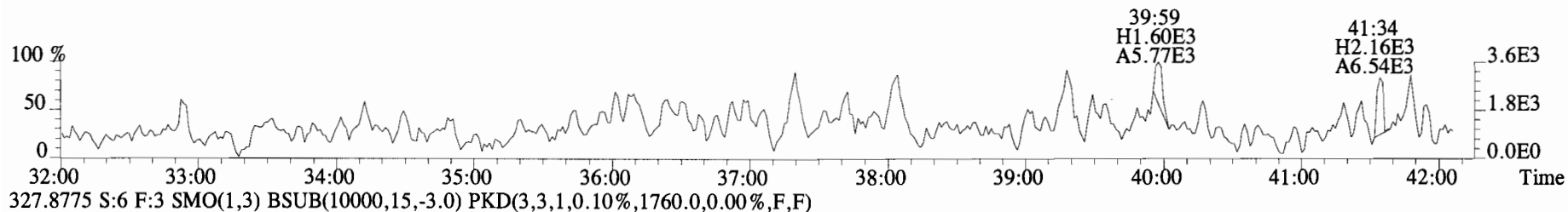
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1524.0,0.00%,F,F)



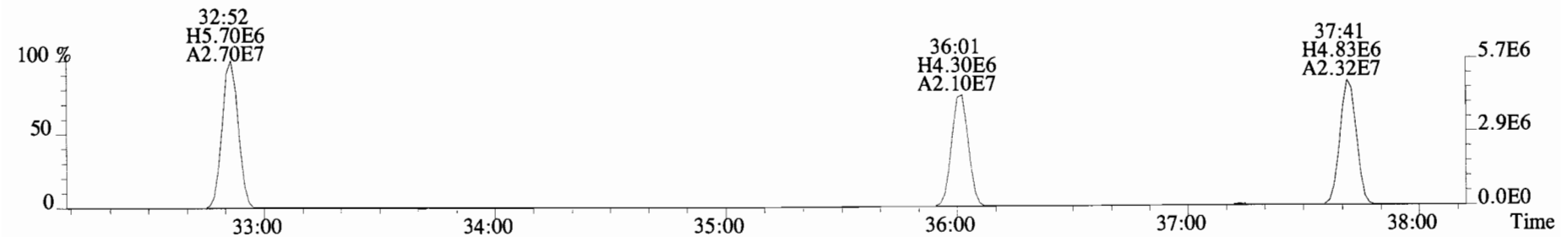
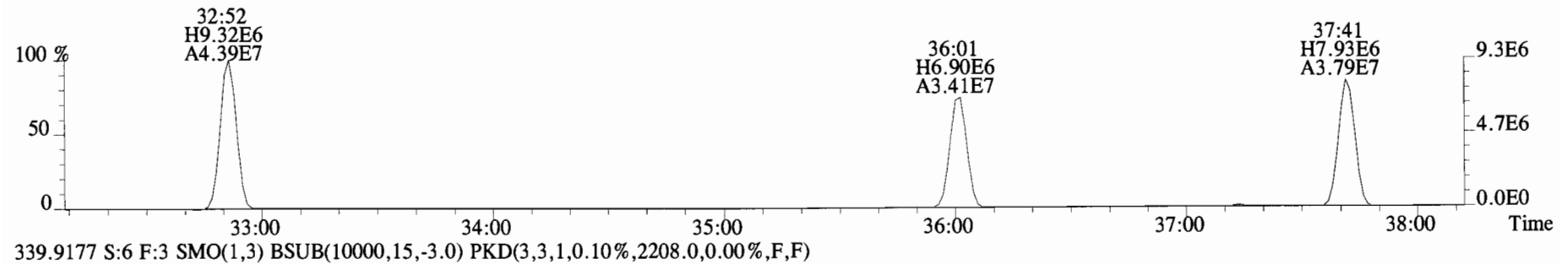
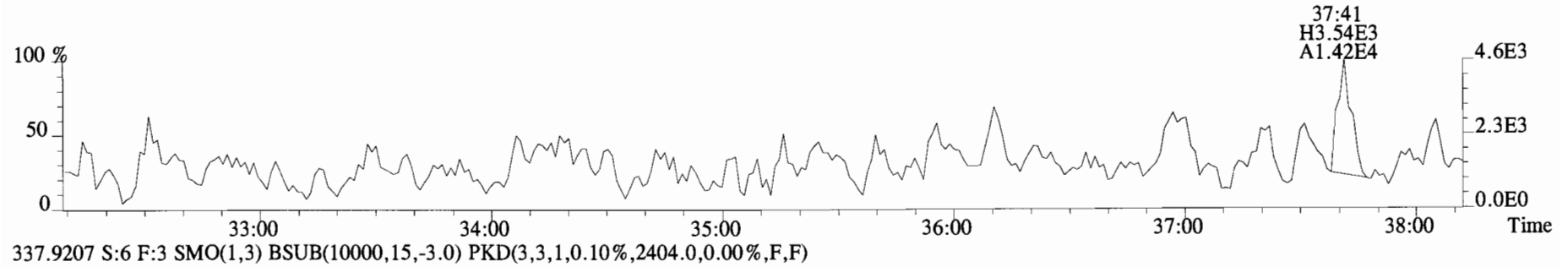
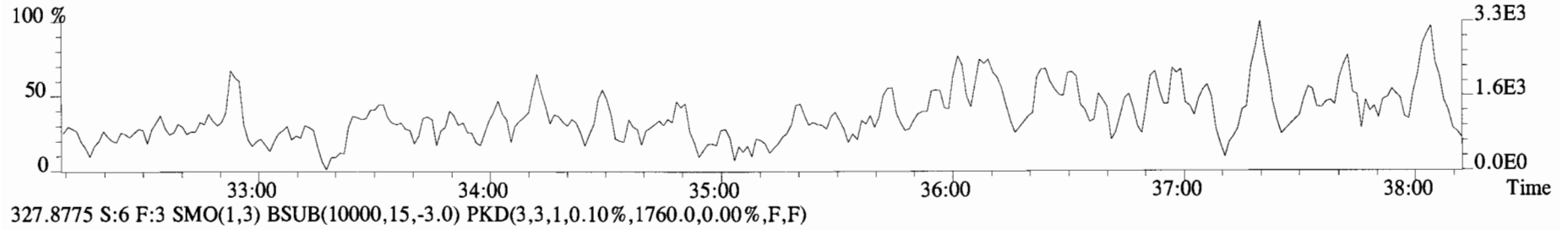
File:140919E2 #1-770 Acq:20-SEP-2014 05:05:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9204.0,0.00%,F,F)



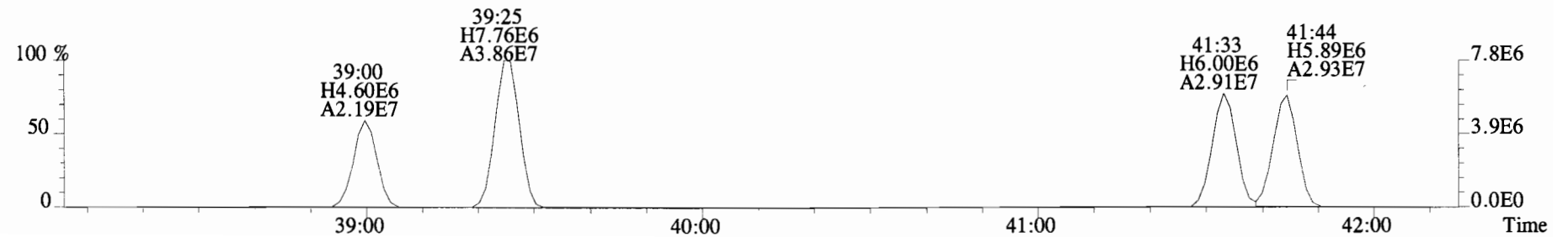
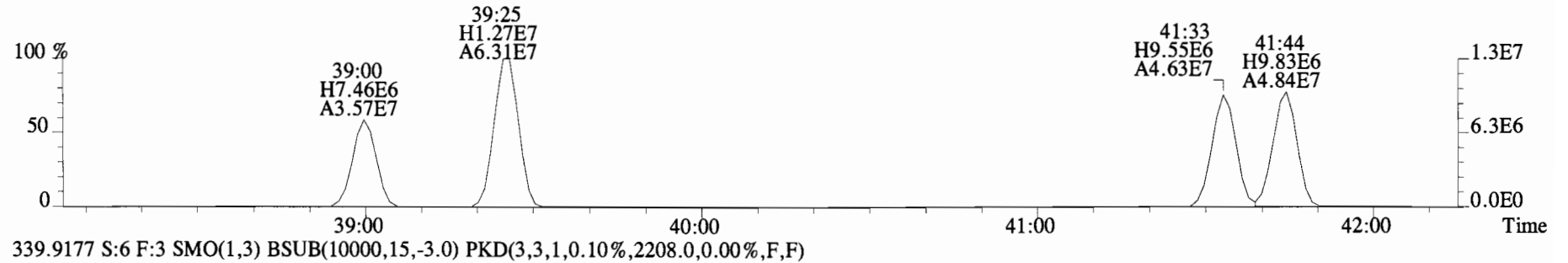
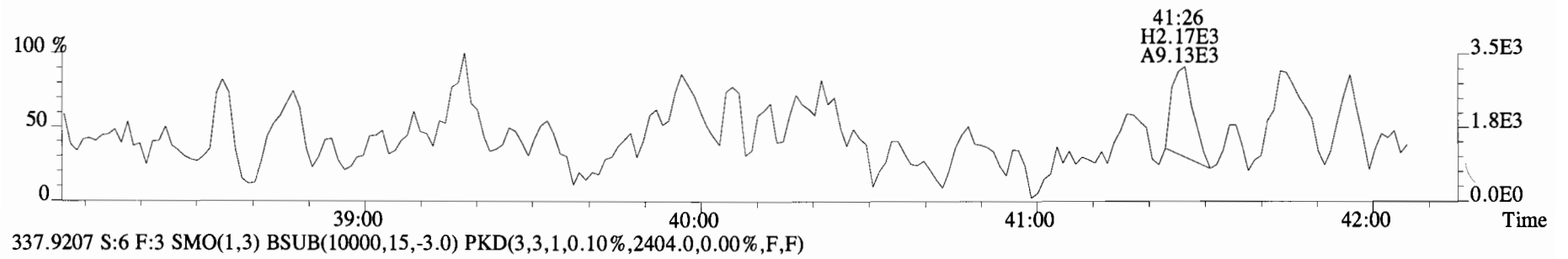
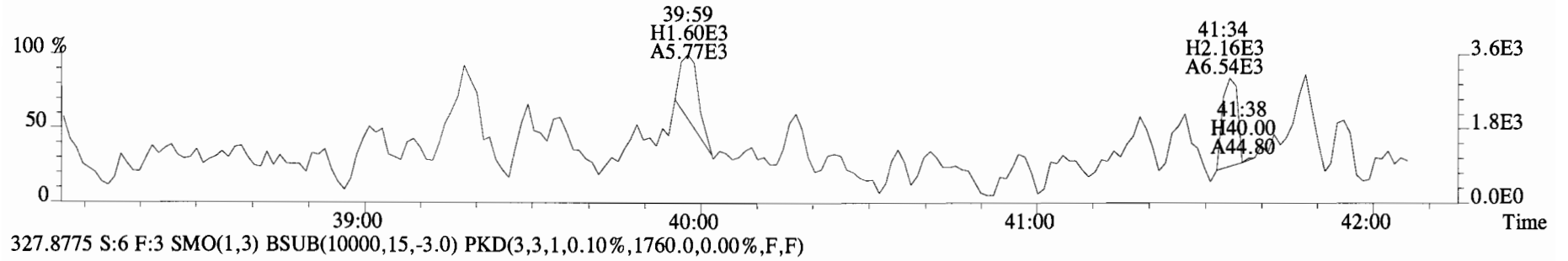
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 325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1452.0,0.00%,F,F)



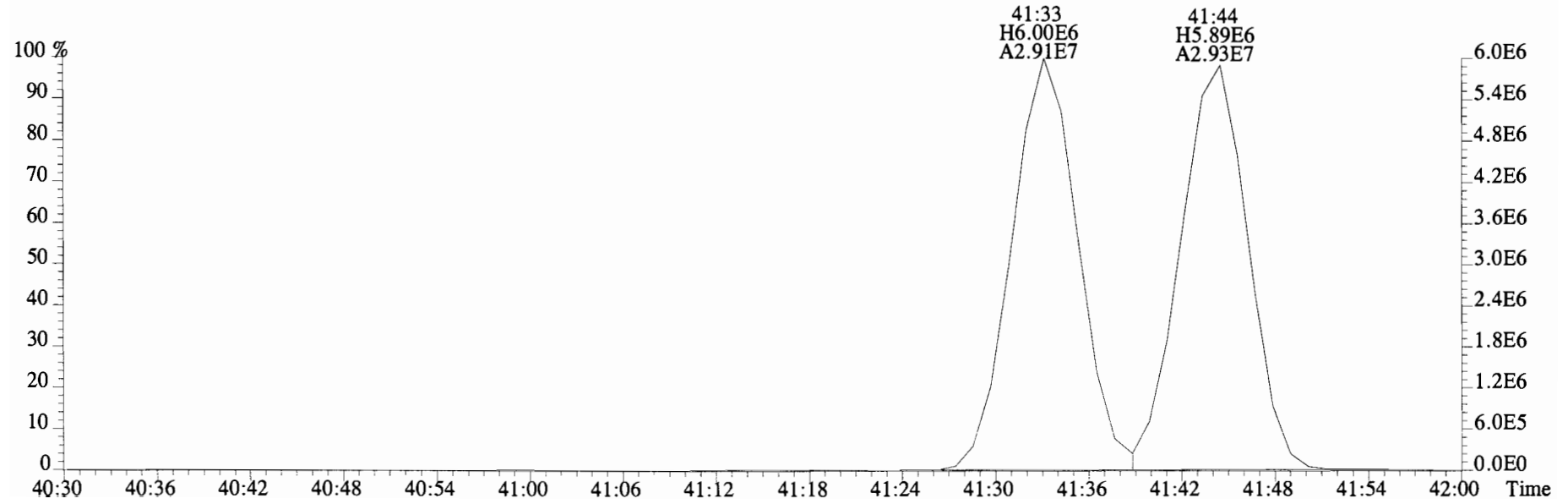
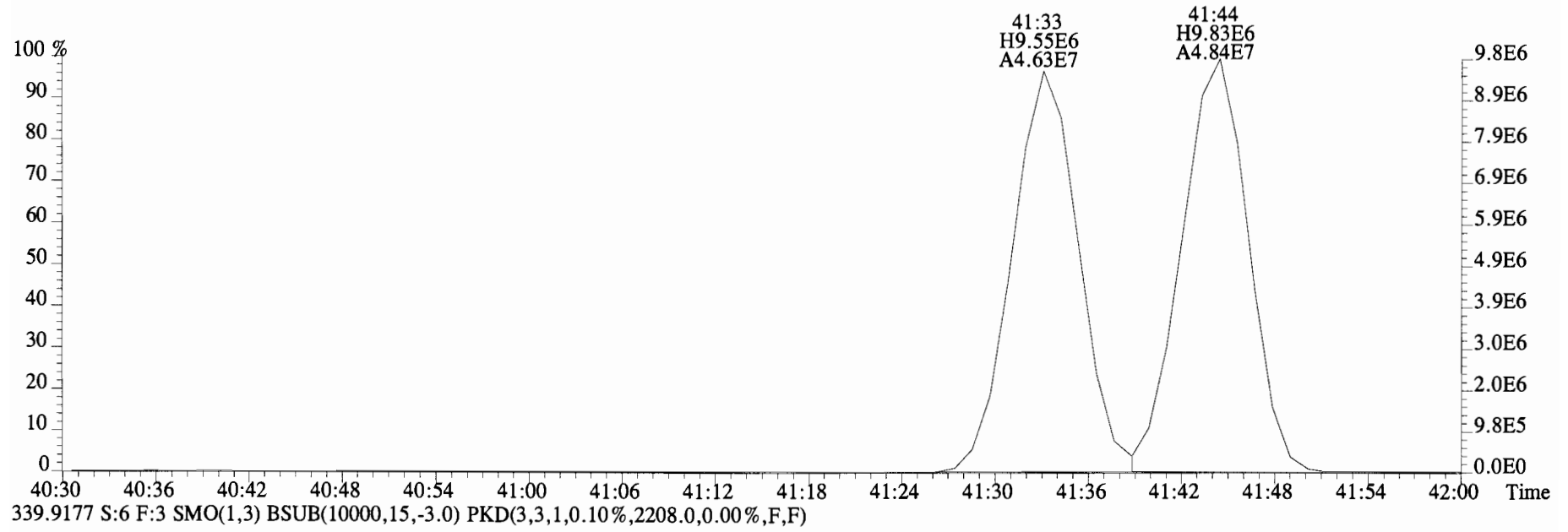
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325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1452.0,0.00%,F,F)



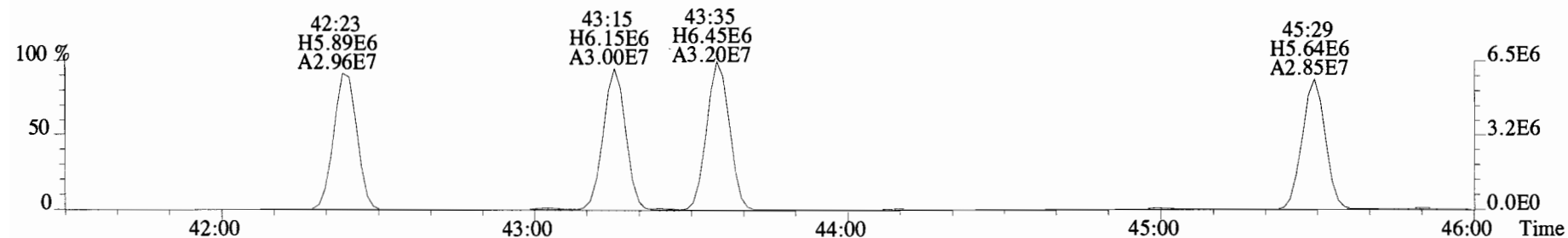
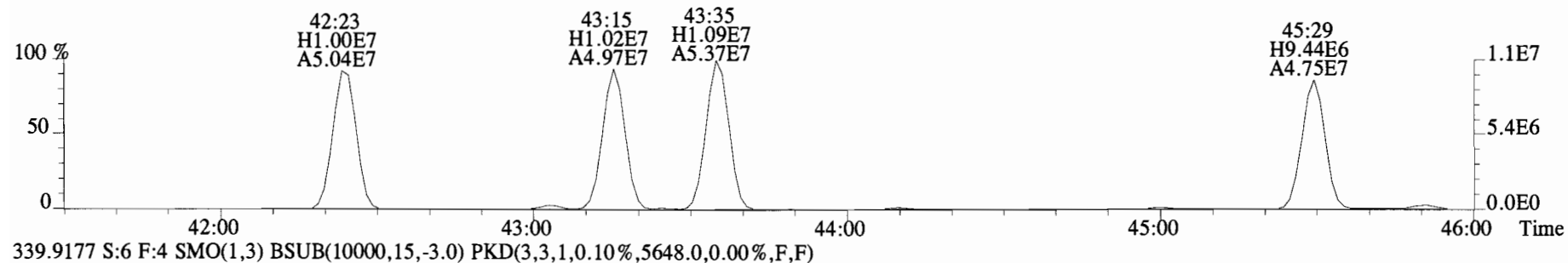
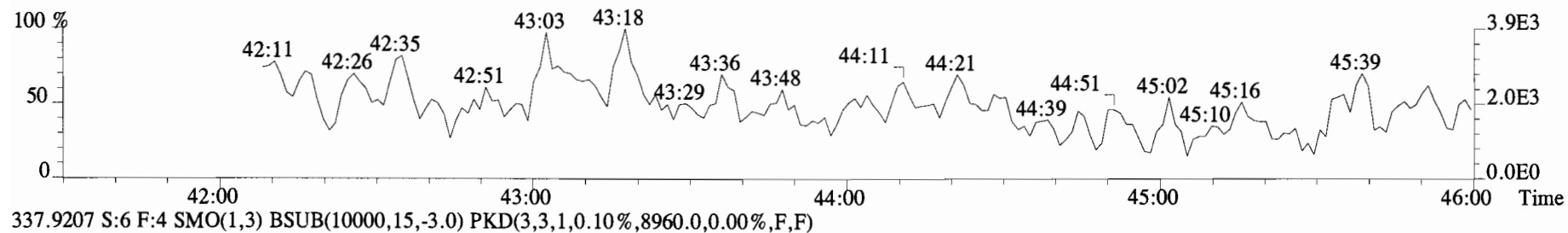
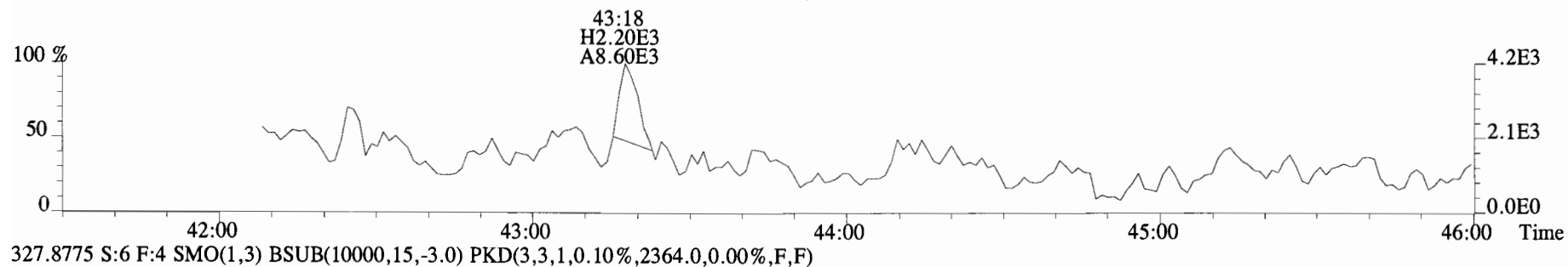
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 Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
 325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1452.0,0.00%,F,F)



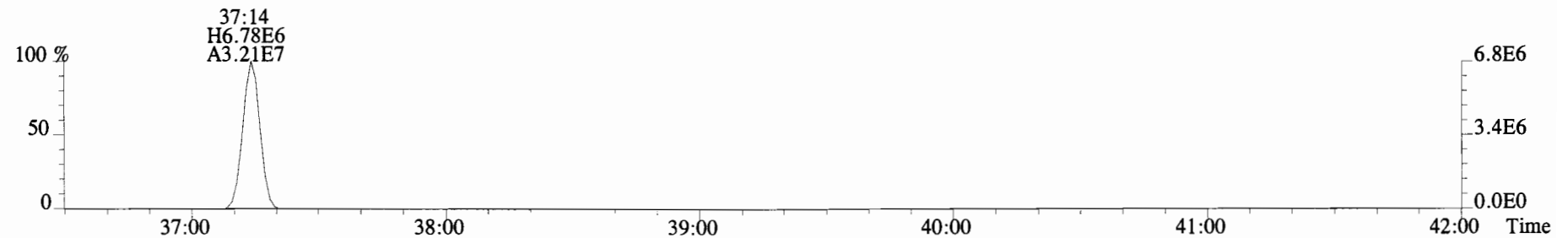
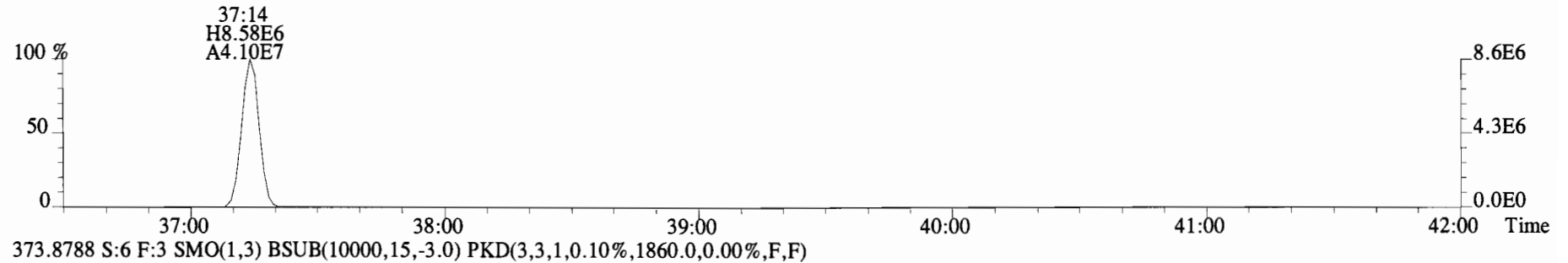
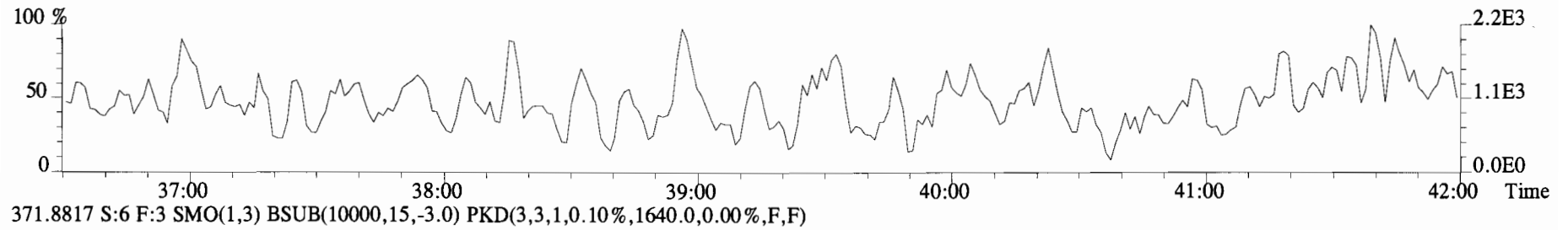
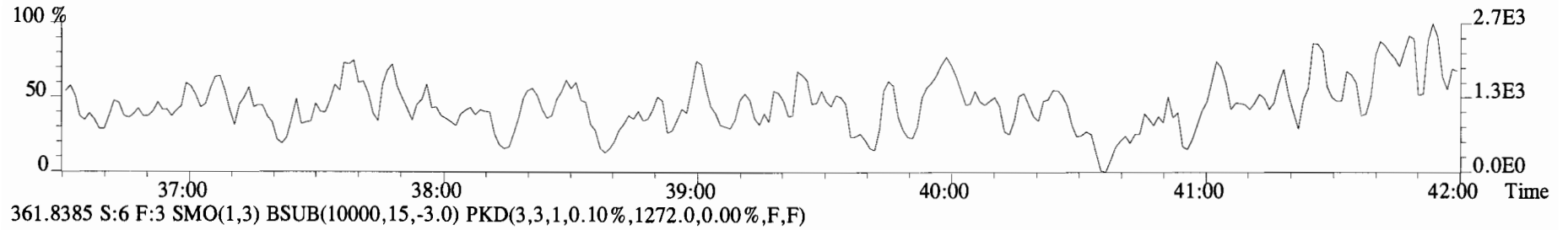
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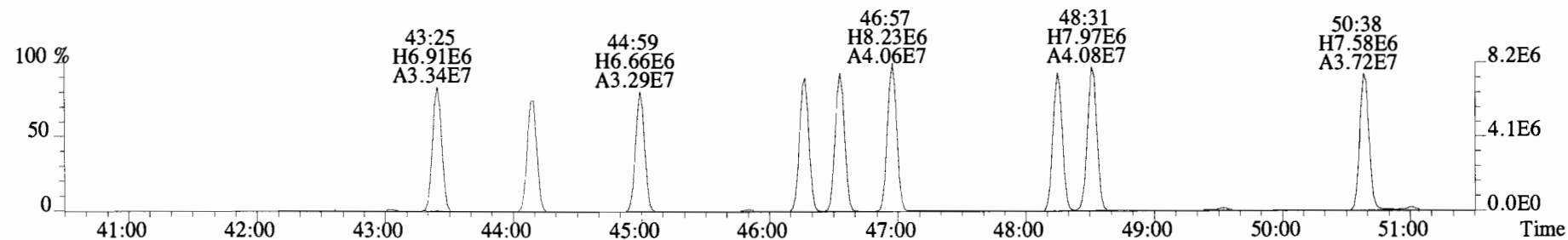
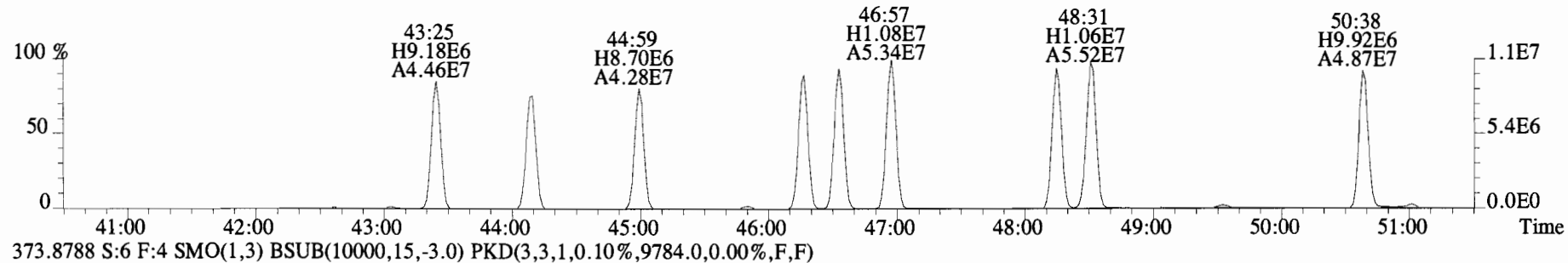
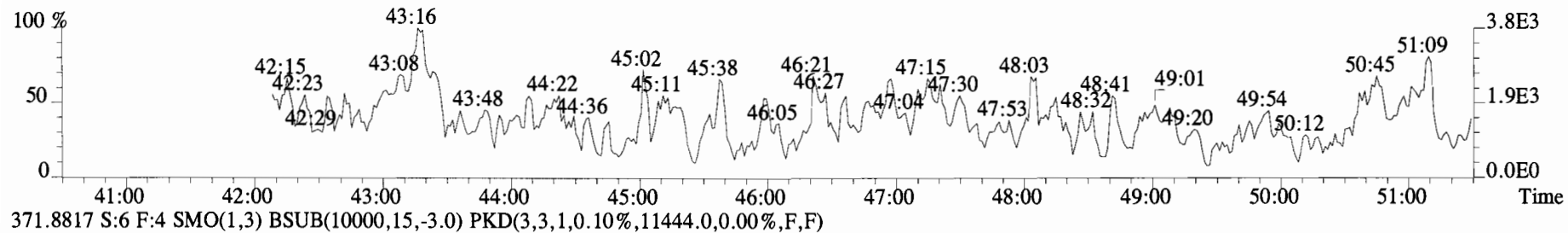
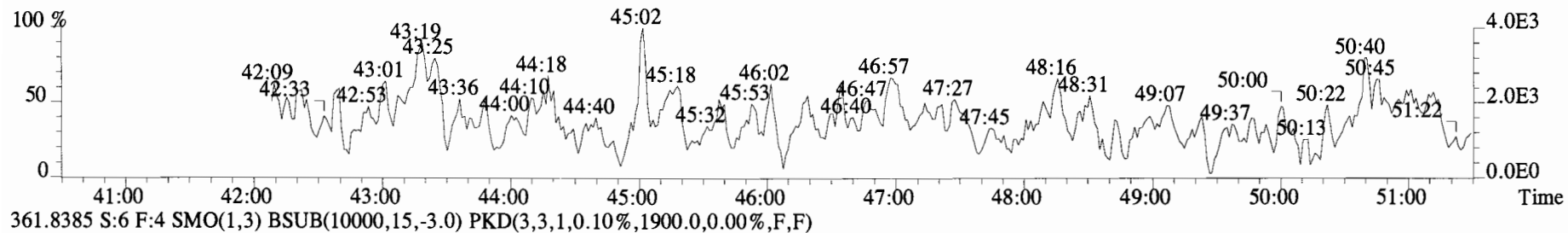
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 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
 325.8804 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1716.0,0.00%,F,F)



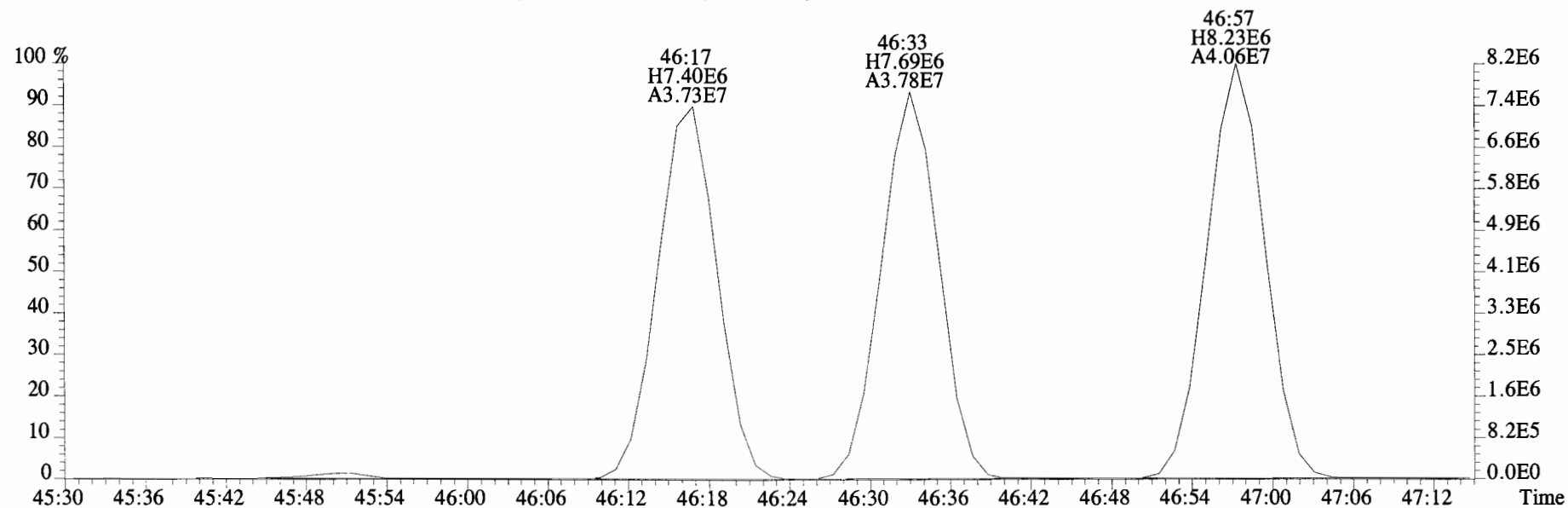
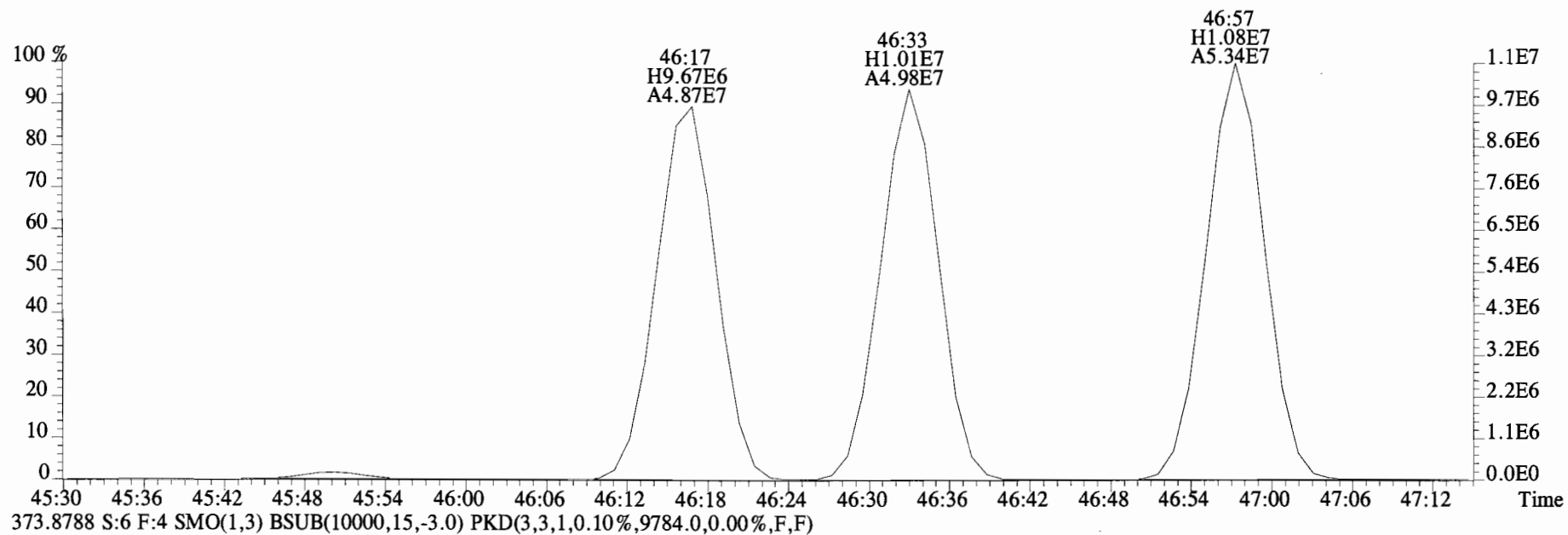
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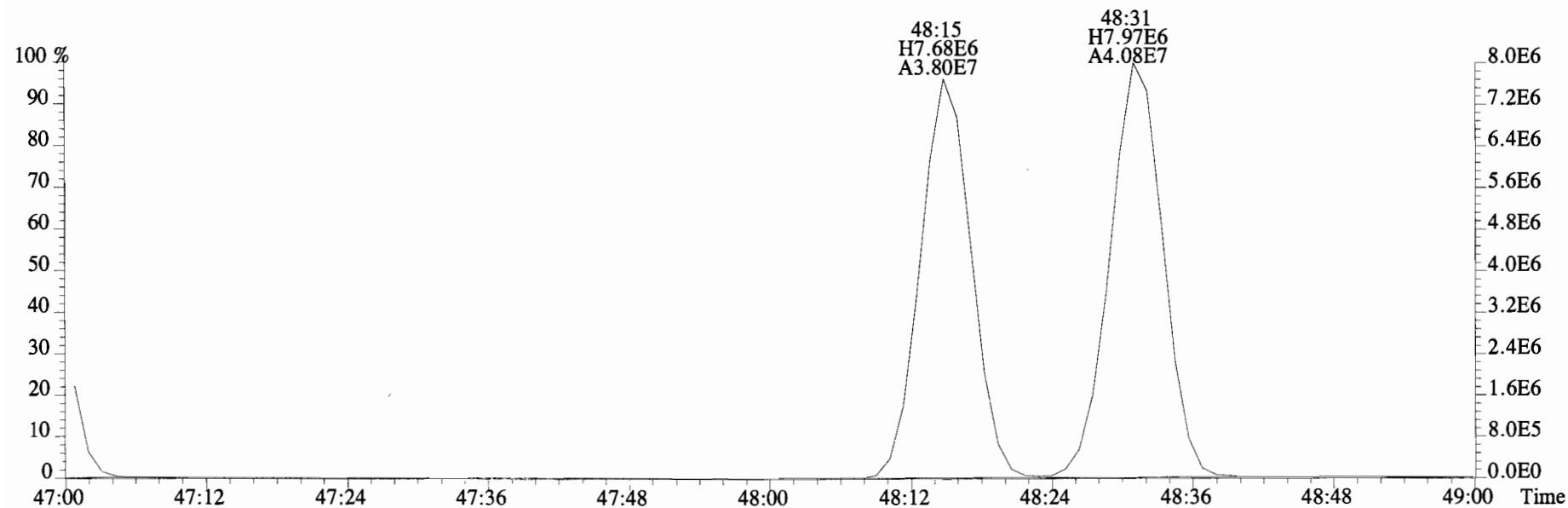
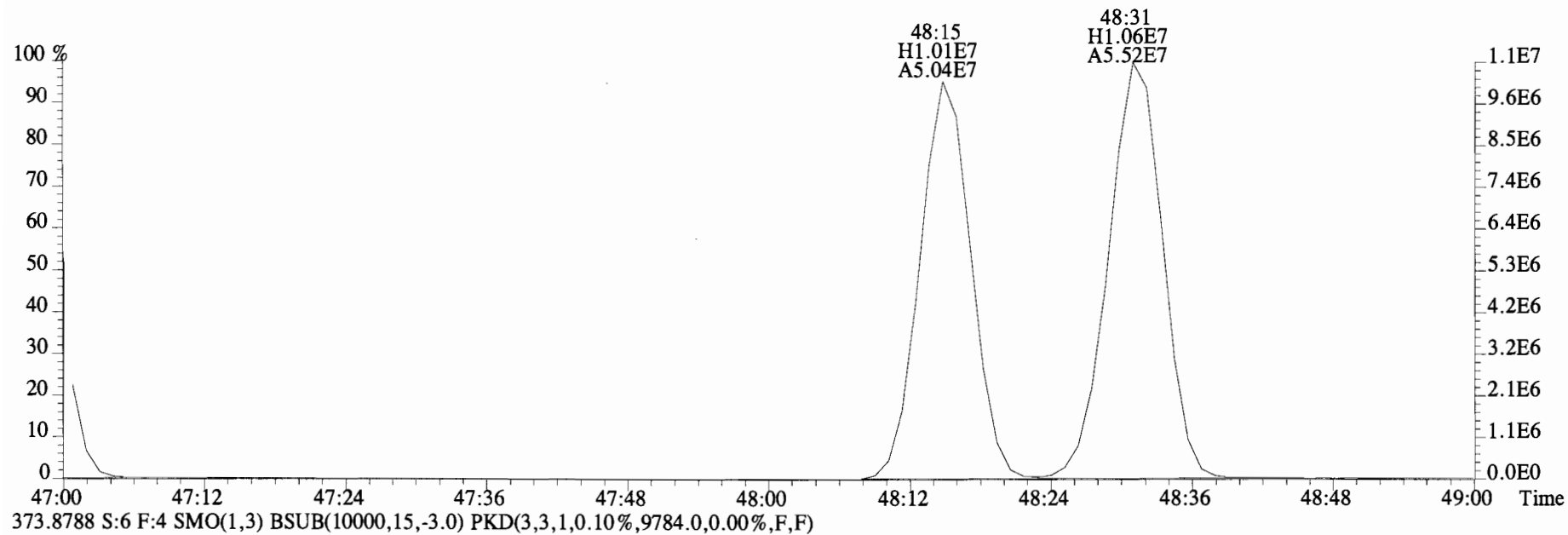
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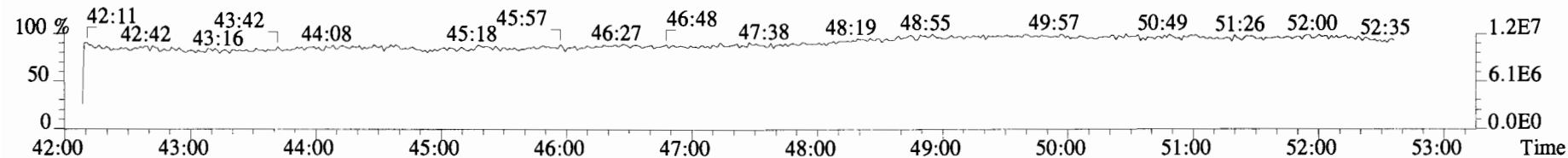
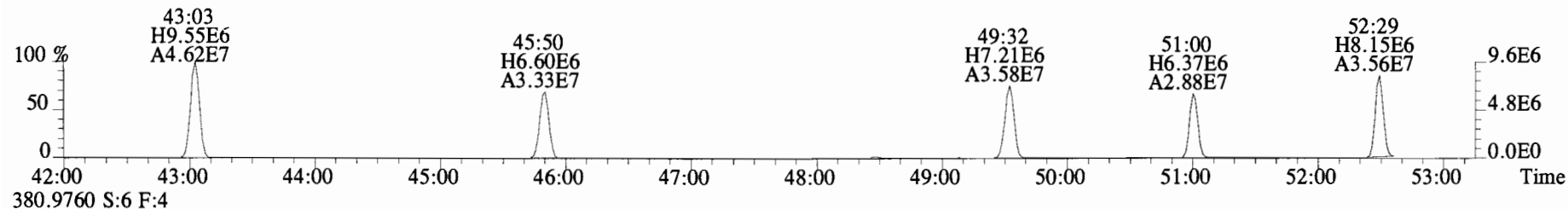
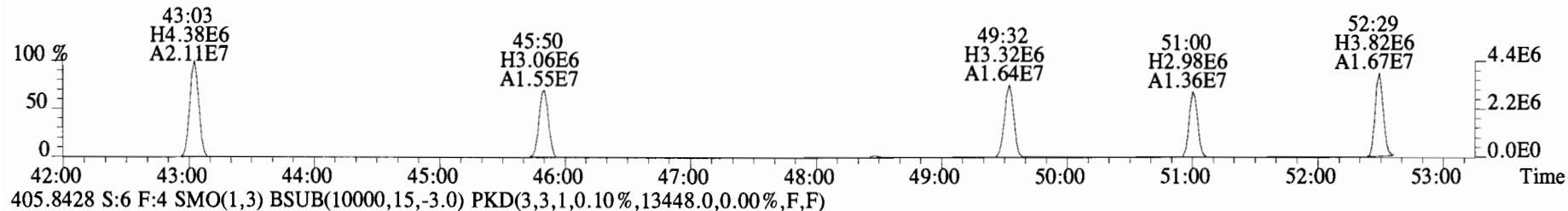
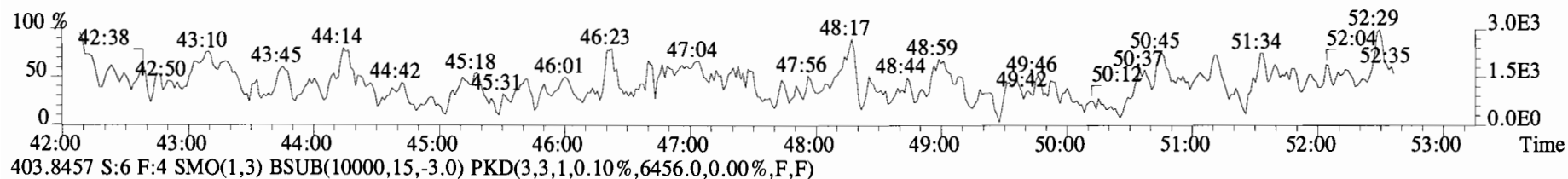
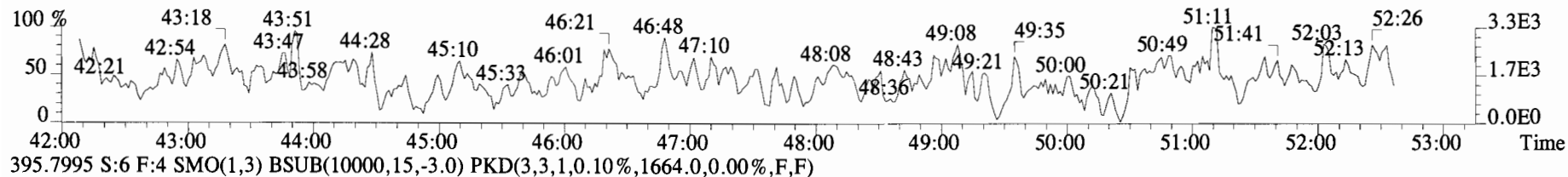
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Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11444.0,0.00%,F,F)



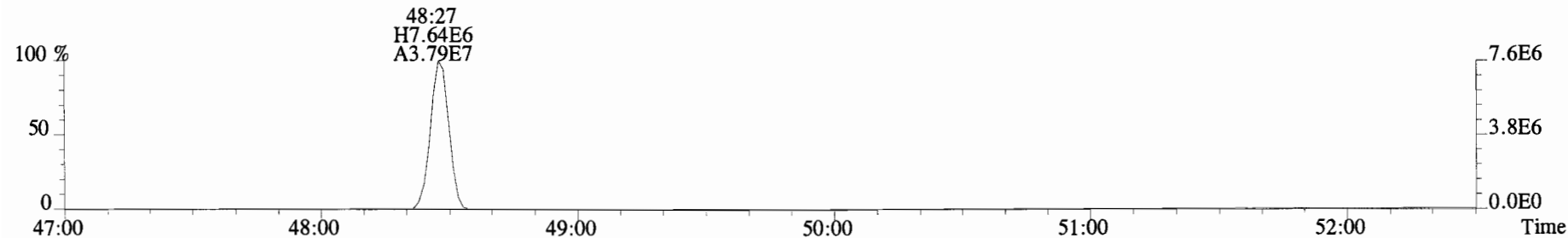
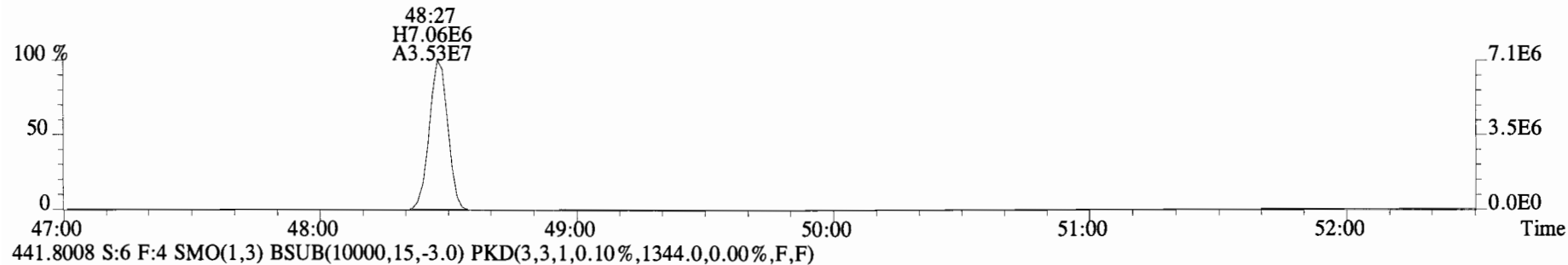
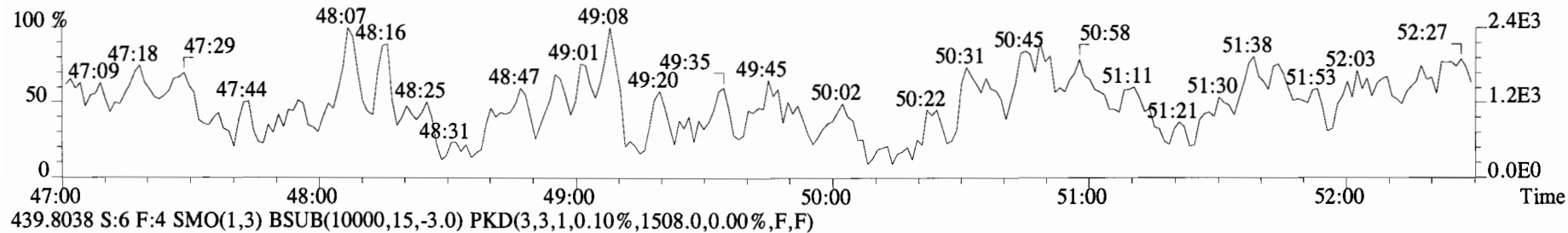
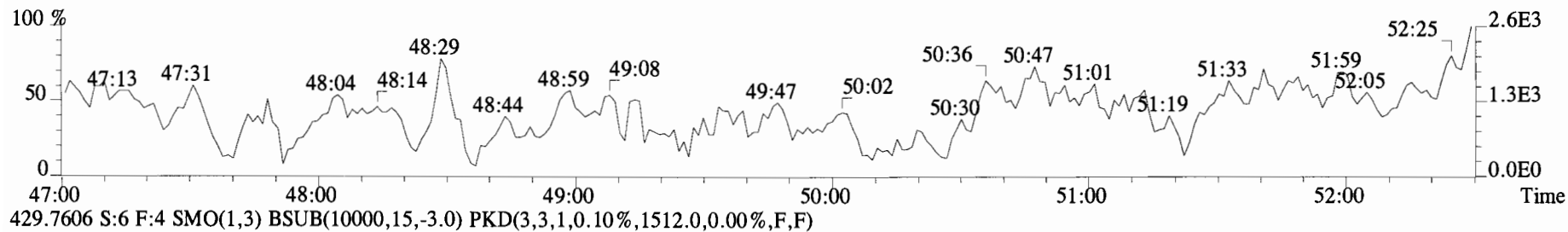
File:140919E2 #1-544 Acq:20-SEP-2014 05:05:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11444.0,0.00%,F,F)



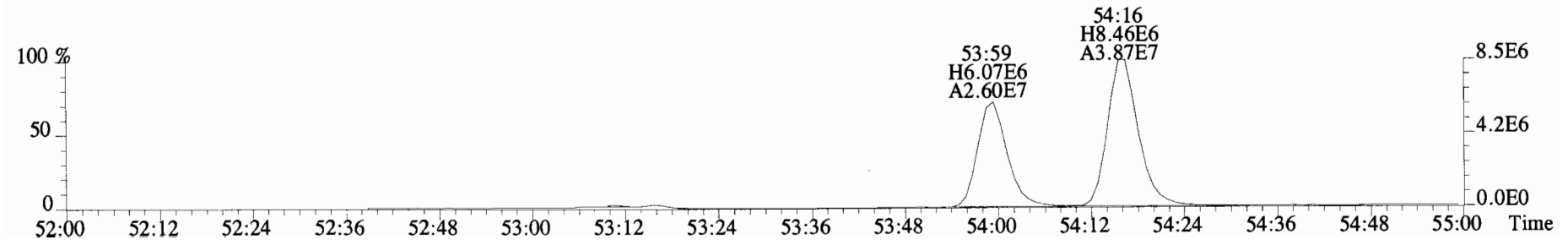
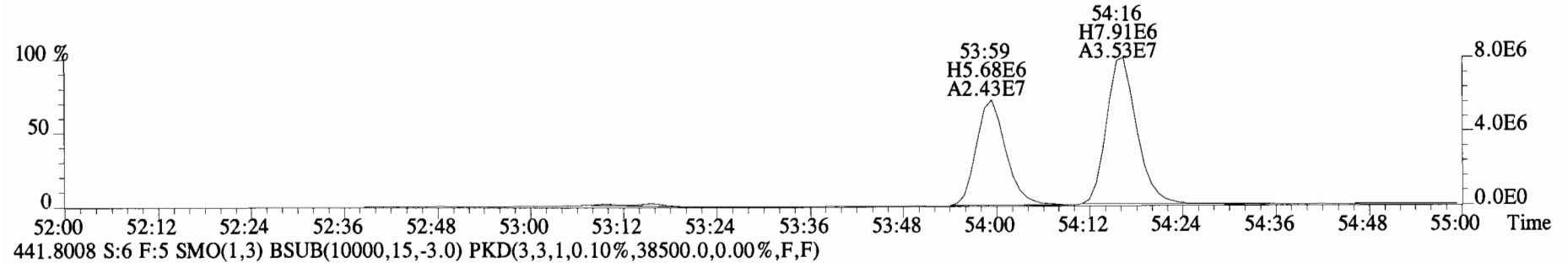
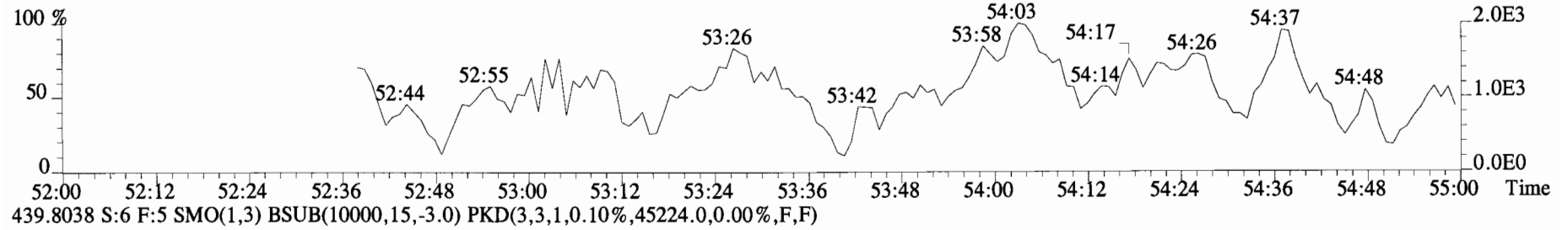
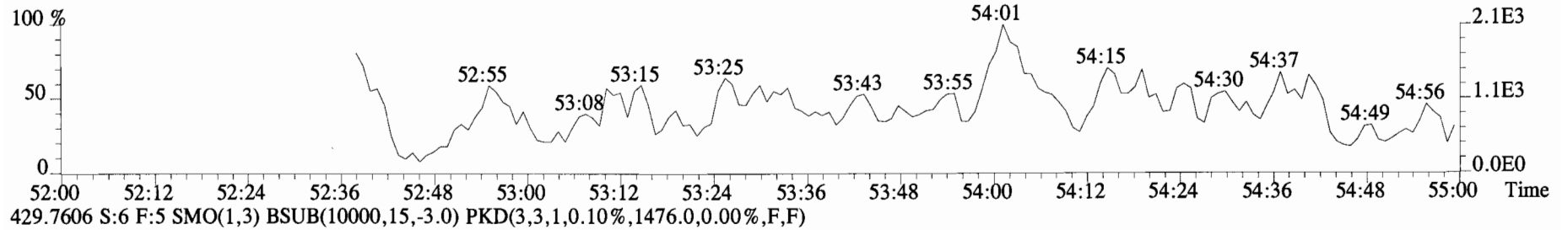
File:140919E2 #1-544 Acq:20-SEP-2014 05:05:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1980.0,0.00%,F,F)



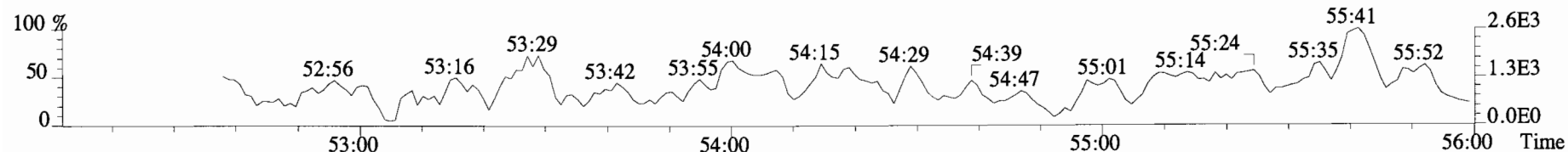
File:140919E2 #1-544 Acq:20-SEP-2014 05:05:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
427.7635 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1428.0,0.00%,F,F)



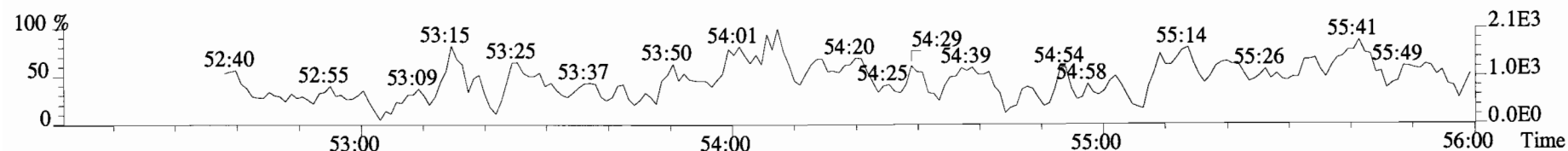
File:140919E2 #1-429 Acq:20-SEP-2014 05:05:04 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
 427.7635 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1240.0,0.00%,F,F)



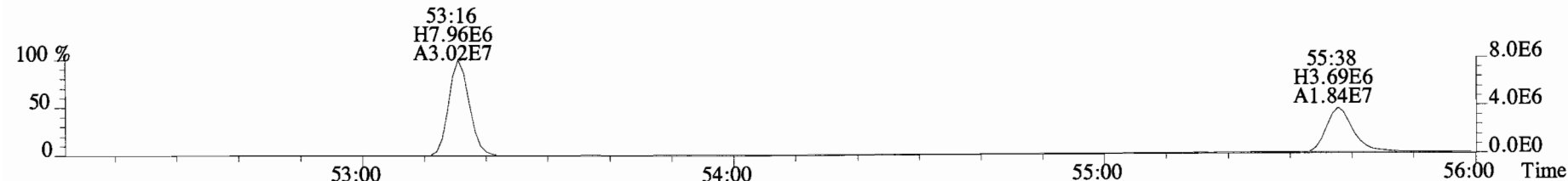
File:140919E2 #1-429 Acq:20-SEP-2014 05:05:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
463.7216 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1340.0,0.00%,F,F)



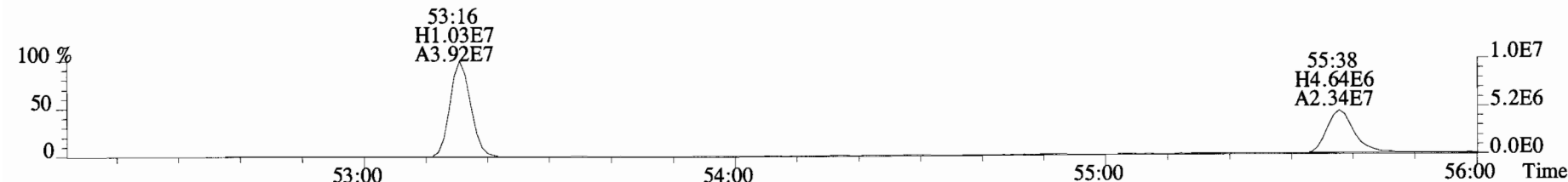
465.7186 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1164.0,0.00%,F,F)



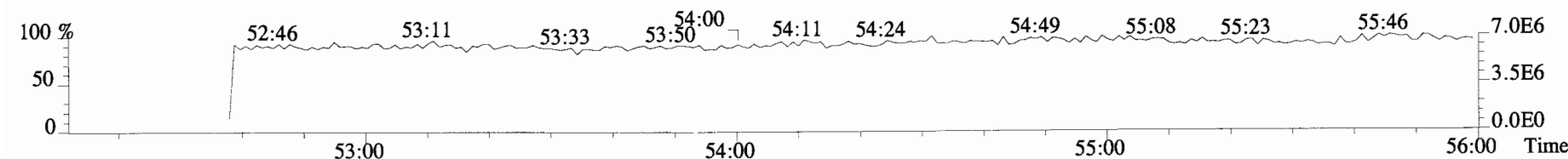
473.7648 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21056.0,0.00%,F,F)



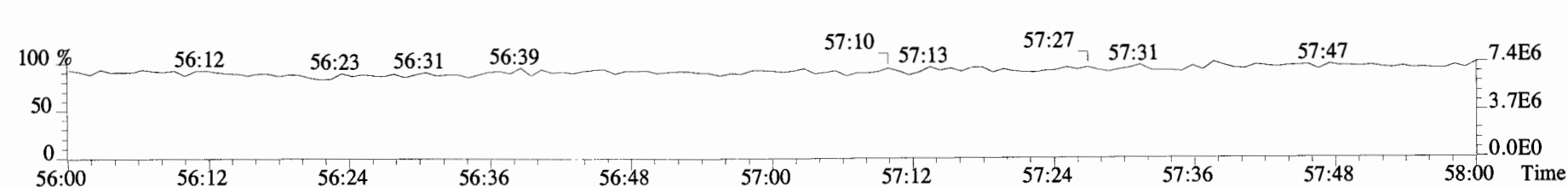
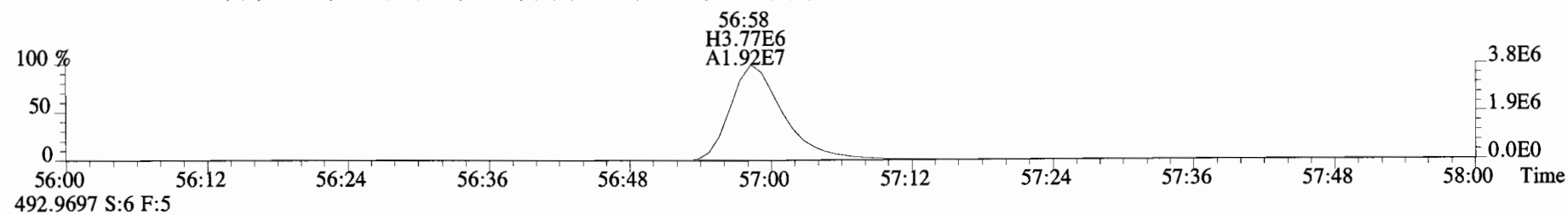
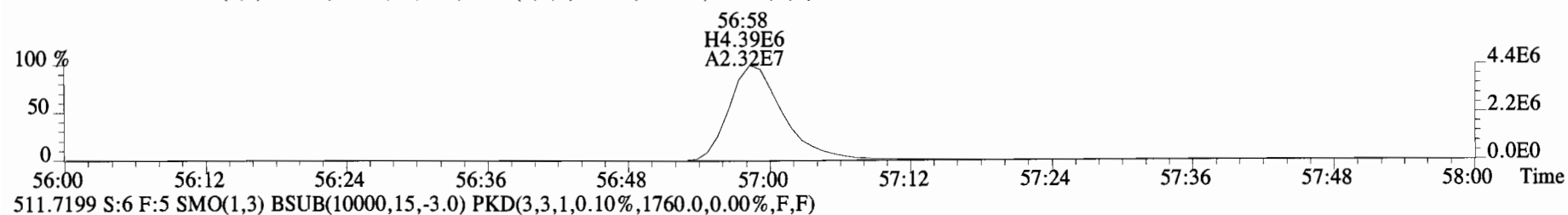
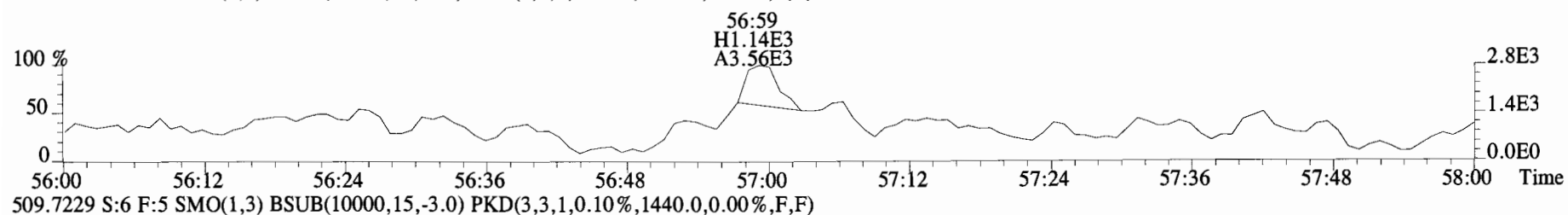
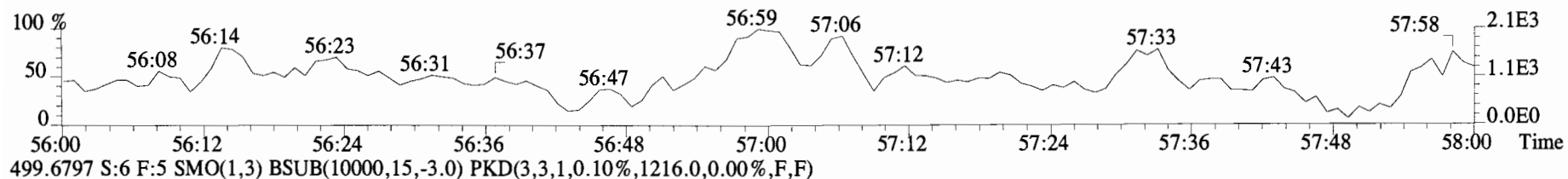
475.7619 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,29376.0,0.00%,F,F)



492.9697 S:6 F:5



File:140919E2 #1-429 Acq:20-SEP-2014 05:05:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BLK1 Method Blank 10 Exp:PCB_ZB1
497.6826 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1256.0,0.00%,F,F)



Lab Name: Vista Analytical Laboratory OPR Data Filename: B4I0061-BS1

Matrix : SOLID Ext. Date: 9-17-14 Analysis Date: 20-SEP-14 Time: 01:51:50

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

| NATIVE ANALYTES | SPIKE | CONC. | OPR CONC. | Labeled Compounds | SPIKE | CONC. | OPR CONC. | Clean Up Standard | SPIKE | CONC. | OPR CONC. |
|-----------------|---------|---------|-----------|-------------------|---------|---------|-----------|-------------------|---------|---------|-----------|
| | CONC. | FOUND | LIMITS | | CONC. | FOUND | LIMITS | | CONC. | FOUND | LIMITS |
| | (ng/mL) | (ng/mL) | (ng/mL) | | (ng/mL) | (ng/mL) | (ng/mL) | | (ng/mL) | (ng/mL) | (ng/mL) |
| PCB-1 | 50 | 40.7 | 30.0-67.5 | 13C-PCB-1 | 100 | 89.1 | 15-145 | 13C-PCB-79 | 100 | 84.9 | 40-145 |
| PCB-3 | 50 | 40.7 | 30.0-67.5 | 13C-PCB-3 | 100 | 94.1 | 15-145 | 13C-PCB-178 | 100 | 90.5 | 40-145 |
| PCB-4/10 | 200 | 211.2 | 120-270 | 13C-PCB-4 | 100 | 65.1 | 15-145 | | | | |
| PCB-15 | 100 | 105.4 | 60.0-135 | 13C-PCB-11 | 100 | 72.9 | 15-145 | | | | |
| PCB-19 | 50 | 48.0 | 30.0-67.5 | 13C-PCB-19 | 100 | 86.1 | 15-145 | | | | |
| PCB-37 | 50 | 54.6 | 30.0-67.5 | 13C-PCB-37 | 100 | 82.2 | 15-145 | | | | |
| PCB-54 | 50 | 49.8 | 30.0-67.5 | 13C-PCB-54 | 100 | 63.3 | 15-145 | | | | |
| PCB-81 | 50 | 49.7 | 30.0-67.5 | 13C-PCB-81 | 100 | 84.6 | 40-145 | | | | |
| PCB-77 | 50 | 52.5 | 30.0-67.5 | 13C-PCB-77 | 100 | 85.1 | 40-145 | | | | |
| PCB-104 | 50 | 53.0 | 30.0-67.5 | 13C-PCB-104 | 100 | 68.1 | 40-145 | | | | |
| PCB-123 | 50 | 51.4 | 30.0-67.5 | 13C-PCB-123 | 100 | 85.7 | 40-145 | | | | |
| PCB-106/118 | 100 | 104.7 | 60.0-135 | 13C-PCB-118 | 100 | 84.1 | 40-145 | | | | |
| PCB-114 | 50 | 51.2 | 30.0-67.5 | 13C-PCB-114 | 100 | 68.5 | 40-145 | | | | |
| PCB-105 | 50 | 51.6 | 30.0-67.5 | 13C-PCB-105 | 100 | 68.8 | 40-145 | | | | |
| PCB-126 | 50 | 52.9 | 30.0-67.5 | 13C-PCB-126 | 100 | 69.4 | 40-145 | | | | |
| PCB-155 | 50 | 49.7 | 30.0-67.5 | 13C-PCB-155 | 100 | 85.7 | 40-145 | | | | |
| PCB-167 | 50 | 48.4 | 30.0-67.5 | 13C-PCB-167 | 100 | 81.3 | 40-145 | | | | |
| PCB-156 | 50 | 48.9 | 30.0-67.5 | 13C-PCB-156 | 100 | 81.3 | 40-145 | | | | |
| PCB-157 | 50 | 47.3 | 30.0-67.5 | 13C-PCB-157 | 100 | 82.3 | 40-145 | | | | |
| PCB-169 | 50 | 47.2 | 30.0-67.5 | 13C-PCB-169 | 100 | 82.2 | 40-145 | | | | |
| PCB-188 | 50 | 49.8 | 30.0-67.5 | 13C-PCB-188 | 100 | 84.2 | 40-145 | | | | |
| PCB-189 | 50 | 48.8 | 30.0-67.5 | 13C-PCB-189 | 100 | 89.8 | 40-145 | | | | |
| PCB-202 | 50 | 48.9 | 30.0-67.5 | 13C-PCB-202 | 100 | 100.7 | 40-145 | | | | |
| PCB-205 | 50 | 48.2 | 30.0-67.5 | 13C-PCB-194 | 100 | 87.2 | 40-145 | | | | |
| PCB-208 | 50 | 51.3 | 30.0-67.5 | 13C-PCB-208 | 100 | 85.8 | 40-145 | | | | |
| PCB-206 | 50 | 52.2 | 30.0-67.5 | 13C-PCB-206 | 100 | 85.5 | 40-145 | | | | |
| PCB-209 | 50 | 50.7 | 30.0-67.5 | 13C-PCB-209 | 100 | 93.7 | 40-145 | | | | |

Analyst: msDate: 9/23/14

Client ID: OPR
Lab ID: B4I0061-BS1

Filename: 140919E2 S:3 Acq:20-SEP-14 01:51:50 ConCal: ST140919E2-1
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 | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc |
|--------------|----------|------|-----|------|-------|-------|-------------|---------|-----------------|----------|------|-----|------|-------|-------|-------------|---------|
| PCB-1 | 5.75e+07 | 3.13 | y | 1.19 | 16:19 | 1.001 | 0.996-1.006 | 40.6716 | PCB-52/69 | 9.59e+07 | 0.81 | y | 1.28 | 31:43 | 1.001 | 0.996-1.006 | 100.746 |
| PCB-2 | 6.31e+07 | 3.13 | y | 1.18 | 18:42 | 0.989 | 0.984-0.994 | 40.7620 | PCB-73 | 5.48e+07 | 0.83 | y | 1.35 | 31:50 | 1.004 | 1.000-1.010 | 54.5226 |
| PCB-3 | 7.58e+07 | 3.11 | y | 1.43 | 18:56 | 1.001 | 0.996-1.006 | 40.6544 | PCB-43/49 | 7.64e+07 | 0.81 | y | 0.99 | 32:00 | 1.009 | 1.005-1.015 | 103.414 |
| PCB-4/10 | 1.93e+08 | 1.63 | y | 1.57 | 20:19 | 1.002 | 0.997-1.007 | 211.231 | PCB-47 | 4.24e+07 | 0.80 | y | 1.06 | 32:13 | 1.001 | 0.996-1.006 | 50.1173 |
| PCB-7/9 | 2.37e+08 | 1.65 | y | 1.21 | 22:06 | 0.869 | 0.866-0.874 | 211.842 | PCB-48/75 | 1.00e+08 | 0.81 | y | 1.23 | 32:20 | 1.004 | 0.999-1.009 | 102.194 |
| PCB-6 | 1.26e+08 | 1.66 | y | 1.30 | 22:45 | 0.894 | 0.890-0.899 | 104.090 | PCB-65 | 5.36e+07 | 0.81 | y | 1.22 | 32:36 | 1.012 | 1.008-1.018 | 54.7305 |
| PCB-5/8 | 2.32e+08 | 1.65 | y | 1.15 | 23:10 | 0.911 | 0.907-0.917 | 218.242 | PCB-62 | 4.79e+07 | 0.82 | y | 1.22 | 32:43 | 1.016 | 1.011-1.021 | 49.0365 |
| PCB-14 | 1.23e+08 | 1.67 | y | 1.11 | 24:15 | 0.953 | 0.949-0.959 | 106.549 | PCB-44 | 3.63e+07 | 0.82 | y | 0.86 | 33:01 | 1.025 | 1.021-1.031 | 52.7637 |
| PCB-11 | 1.21e+08 | 1.67 | y | 1.09 | 25:27 | 1.001 | 0.995-1.005 | 107.270 | PCB-42/59 | 9.13e+07 | 0.81 | y | 1.14 | 33:14 | 1.032 | 1.028-1.038 | 100.393 |
| PCB-12/13 | 2.68e+08 | 1.66 | y | 1.19 | 25:50 | 1.016 | 1.011-1.021 | 215.504 | PCB-41/64/71/72 | 1.98e+08 | 0.81 | y | 1.21 | 33:50 | 1.051 | 1.046-1.056 | 205.562 |
| PCB-15 | 1.41e+08 | 1.68 | y | 1.28 | 26:09 | 1.028 | 1.023-1.033 | 105.419 | PCB-68 | 5.73e+07 | 0.80 | y | 1.35 | 34:04 | 1.058 | 1.054-1.064 | 53.1908 |
| PCB-19 | 3.49e+07 | 1.10 | y | 1.04 | 24:26 | 1.001 | 0.996-1.006 | 47.9902 | PCB-40 | 3.09e+07 | 0.81 | y | 0.70 | 34:18 | 1.065 | 1.061-1.071 | 55.0327 |
| PCB-30 | 5.88e+07 | 1.10 | y | 1.71 | 25:20 | 1.038 | 1.032-1.042 | 49.2482 | PCB-57 | 5.14e+07 | 0.81 | y | 0.98 | 34:40 | 0.971 | 0.965-0.975 | 52.4147 |
| PCB-18 | 4.20e+07 | 1.10 | y | 0.78 | 26:05 | 0.954 | 0.949-0.959 | 48.8701 | PCB-67 | 5.82e+07 | 0.83 | y | 1.11 | 34:58 | 0.979 | 0.974-0.984 | 52.5142 |
| PCB-17 | 4.88e+07 | 1.09 | y | 0.92 | 26:15 | 0.960 | 0.956-0.966 | 48.1642 | PCB-58 | 4.87e+07 | 0.80 | y | 0.93 | 35:05 | 0.982 | 0.977-0.987 | 52.4138 |
| PCB-24/27 | 1.26e+08 | 1.10 | y | 1.19 | 26:50 | 0.982 | 0.977-0.987 | 96.4522 | PCB-63 | 4.83e+07 | 0.82 | y | 0.95 | 35:14 | 0.986 | 0.982-0.992 | 50.6722 |
| PCB-16/32 | 1.00e+08 | 1.09 | y | 0.94 | 27:20 | 1.000 | 0.995-1.005 | 97.0333 | PCB-74 | 6.40e+07 | 0.81 | y | 1.24 | 35:31 | 0.994 | 0.990-1.000 | 51.3664 |
| PCB-34 | 5.78e+07 | 1.05 | y | 1.14 | 28:08 | 0.960 | 0.955-0.965 | 55.6233 | PCB-61/70 | 9.92e+07 | 0.82 | y | 0.95 | 35:42 | 1.000 | 0.995-1.005 | 103.883 |
| PCB-23 | 6.26e+07 | 1.05 | y | 1.28 | 28:13 | 0.963 | 0.959-0.969 | 53.5016 | PCB-76/66 | 1.08e+08 | 0.81 | y | 1.04 | 35:55 | 1.006 | 1.001-1.011 | 103.682 |
| PCB-29 | 5.55e+07 | 1.04 | y | 1.08 | 28:28 | 0.972 | 0.967-0.977 | 56.1613 | PCB-80 | 6.52e+07 | 0.83 | y | 1.19 | 36:08 | 1.000 | 0.996-1.006 | 51.5475 |
| PCB-26 | 6.03e+07 | 1.05 | y | 1.21 | 28:40 | 0.978 | 0.974-0.984 | 54.6161 | PCB-55 | 5.80e+07 | 0.81 | y | 1.04 | 36:29 | 1.010 | 1.005-1.015 | 52.5284 |
| PCB-25 | 6.90e+07 | 1.07 | y | 1.26 | 28:51 | 0.985 | 0.979-0.989 | 59.8166 | PCB-56/60 | 1.20e+08 | 0.81 | y | 1.01 | 36:58 | 1.023 | 1.019-1.029 | 112.327 |
| PCB-31 | 6.54e+07 | 1.04 | y | 1.28 | 29:12 | 0.997 | 0.992-1.002 | 55.6443 | PCB-79 | 6.50e+07 | 0.80 | y | 1.08 | 38:02 | 1.053 | 1.048-1.058 | 56.7348 |
| PCB-28 | 8.45e+07 | 1.05 | y | 1.71 | 29:18 | 1.000 | 0.995-1.005 | 53.9571 | PCB-78 | 6.88e+07 | 0.80 | y | 1.27 | 38:43 | 0.987 | 0.982-0.992 | 50.5071 |
| PCB-20/21/33 | 1.71e+08 | 1.05 | y | 1.08 | 29:55 | 1.021 | 1.017-1.027 | 173.338 | PCB-81 | 7.09e+07 | 0.80 | y | 1.33 | 39:15 | 1.000 | 0.995-1.005 | 49.6595 |
| PCB-22 | 6.54e+07 | 1.05 | y | 1.21 | 30:22 | 1.036 | 1.032-1.042 | 59.1472 | PCB-77 | 6.37e+07 | 0.85 | y | 1.10 | 39:51 | 1.000 | 0.995-1.005 | 52.4693 |
| PCB-36 | 5.66e+07 | 1.04 | y | 1.14 | 30:58 | 0.934 | 0.928-0.938 | 54.8786 | PCB-104 | 4.48e+07 | 1.67 | y | 1.18 | 32:53 | 1.001 | 0.996-1.006 | 53.0041 |
| PCB-39 | 5.71e+07 | 1.04 | y | 1.12 | 31:26 | 0.948 | 0.943-0.953 | 56.6468 | PCB-96 | 4.32e+07 | 1.64 | y | 1.14 | 34:08 | 1.039 | 1.034-1.044 | 53.1753 |
| PCB-38 | 5.82e+07 | 1.06 | y | 1.20 | 32:13 | 0.971 | 0.966-0.976 | 53.7533 | PCB-103 | 3.55e+07 | 1.65 | y | 0.96 | 34:40 | 1.055 | 1.050-1.060 | 52.0140 |
| PCB-35 | 6.77e+07 | 1.06 | y | 1.23 | 32:44 | 0.987 | 0.982-0.992 | 60.8574 | PCB-100 | 3.60e+07 | 1.65 | y | 0.94 | 35:01 | 1.065 | 1.061-1.071 | 53.8457 |
| PCB-37 | 6.07e+07 | 1.06 | y | 1.23 | 33:11 | 1.001 | 0.995-1.005 | 54.6410 | PCB-94 | 2.95e+07 | 1.68 | y | 1.06 | 35:30 | 0.986 | 0.980-0.990 | 50.5325 |
| PCB-54 | 4.64e+07 | 0.82 | y | 1.10 | 28:11 | 1.001 | 0.996-1.006 | 49.8313 | PCB-95/98/102 | 1.02e+08 | 1.64 | y | 1.22 | 35:59 | 0.999 | 0.995-1.005 | 150.215 |
| PCB-50 | 3.89e+07 | 0.82 | y | 0.88 | 29:21 | 1.042 | 1.037-1.047 | 52.3244 | PCB-93 | 2.98e+07 | 1.57 | y | 0.84 | 36:07 | 1.003 | 0.997-1.007 | 64.0063 |
| PCB-53 | 3.84e+07 | 0.83 | y | 1.06 | 30:00 | 0.946 | 0.942-0.952 | 48.6192 | PCB-88/91 | 6.89e+07 | 1.62 | y | 1.12 | 36:24 | 1.011 | 1.005-1.015 | 111.726 |
| PCB-51 | 3.70e+07 | 0.82 | y | 0.99 | 30:20 | 0.957 | 0.952-0.962 | 50.3463 | PCB-121 | 4.58e+07 | 1.65 | y | 1.62 | 36:31 | 1.014 | 1.009-1.019 | 51.2862 |
| PCB-45 | 3.21e+07 | 0.79 | y | 0.86 | 30:47 | 0.971 | 0.966-0.976 | 50.0324 | PCB-84/92 | 7.07e+07 | 1.63 | y | 1.05 | 37:20 | 0.991 | 0.985-0.995 | 103.083 |
| PCB-46 | 3.22e+07 | 0.82 | y | 0.85 | 31:15 | 0.986 | 0.981-0.991 | 51.2460 | PCB-89 | 3.86e+07 | 1.67 | y | 1.13 | 37:31 | 0.996 | 0.991-1.001 | 52.1485 |

RL: MONO, TRI - DECA: _____

RL: DI : _____

Integrations

by

Analyst: RM

Date: 9/23/14

Reviewed

by

Analyst: [Signature]

Date: 9/25/14

Client ID: OPR
Lab ID: B4I0061-BS1

Filename: 140919E2 S:3 Acq:20-SEP-14 01:51:50
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.000

ConCal: ST140919E2-1
EndCAL: NA

Page 4 of

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc |
|---------------|----------|------|-----|------|-------|-------|-------------|---------|-----------------|----------|------|-----|------|-------|-------|-------------|---------|
| PCB-90/101 | 7.56e+07 | 1.62 | y | 1.10 | 37:41 | 1.000 | 0.995-1.005 | 104.846 | PCB-133/142 | 6.54e+07 | 1.32 | y | 0.82 | 42:38 | 0.982 | 0.977-0.987 | 97.0267 |
| PCB-113 | 4.55e+07 | 1.64 | y | 1.41 | 37:56 | 1.007 | 1.002-1.012 | 49.1997 | PCB-131 | 3.60e+07 | 1.25 | y | 0.91 | 42:48 | 0.986 | 0.981-0.991 | 48.1830 |
| PCB-99 | 5.01e+07 | 1.65 | y | 1.34 | 38:02 | 1.009 | 1.004-1.014 | 57.1995 | PCB-146/165 | 9.71e+07 | 1.29 | y | 1.25 | 43:00 | 0.990 | 0.986-0.996 | 94.6624 |
| PCB-119 | 4.87e+07 | 1.63 | y | 1.53 | 38:30 | 0.987 | 0.982-0.992 | 52.0030 | PCB-132/161 | 8.77e+07 | 1.29 | y | 1.10 | 43:15 | 0.996 | 0.992-1.002 | 96.3339 |
| PCB-108/112 | 8.14e+07 | 1.62 | y | 1.28 | 38:39 | 0.991 | 0.986-0.996 | 104.073 | PCB-153 | 4.84e+07 | 1.29 | y | 1.25 | 43:26 | 1.000 | 0.995-1.005 | 47.0726 |
| PCB-83 | 4.71e+07 | 1.65 | y | 1.52 | 38:50 | 0.996 | 0.990-1.000 | 50.8518 | PCB-168 | 5.77e+07 | 1.29 | y | 1.45 | 43:39 | 1.005 | 1.001-1.011 | 48.3530 |
| PCB-97 | 3.74e+07 | 1.64 | y | 1.18 | 39:01 | 1.000 | 0.995-1.005 | 51.7637 | PCB-141 | 3.94e+07 | 1.30 | y | 1.09 | 44:10 | 1.000 | 0.995-1.005 | 47.6792 |
| PCB-86 | 2.97e+07 | 1.67 | y | 0.84 | 39:09 | 1.004 | 0.999-1.009 | 57.6712 | PCB-137 | 4.06e+07 | 1.30 | y | 1.06 | 44:33 | 1.009 | 1.004-1.014 | 50.1546 |
| B-87/117/125 | 1.48e+08 | 1.65 | y | 1.55 | 39:17 | 1.007 | 1.002-1.012 | 155.978 | PCB-130 | 3.70e+07 | 1.28 | y | 0.96 | 44:39 | 1.011 | 1.006-1.016 | 50.3740 |
| PCB-111/115 | 1.00e+08 | 1.63 | y | 1.63 | 39:26 | 1.011 | 1.006-1.016 | 100.354 | PCB-138/163/164 | 1.46e+08 | 1.29 | y | 1.29 | 45:02 | 1.001 | 0.996-1.006 | 141.255 |
| PCB-85/116 | 8.77e+07 | 1.63 | y | 1.30 | 39:34 | 1.015 | 1.010-1.020 | 110.321 | PCB-158/160 | 1.03e+08 | 1.29 | y | 1.34 | 45:17 | 1.007 | 1.001-1.011 | 96.2405 |
| PCB-120 | 5.33e+07 | 1.65 | y | 1.68 | 39:49 | 1.021 | 1.016-1.026 | 52.0722 | PCB-129 | 3.36e+07 | 1.30 | y | 0.85 | 45:31 | 1.012 | 1.007-1.017 | 49.2889 |
| PCB-110 | 5.00e+07 | 1.63 | y | 1.56 | 39:57 | 1.024 | 1.020-1.030 | 52.5770 | PCB-166 | 5.22e+07 | 1.28 | y | 1.19 | 45:58 | 0.993 | 0.988-0.998 | 48.0574 |
| PCB-82 | 3.29e+07 | 1.62 | y | 0.76 | 40:35 | 0.977 | 0.971-0.981 | 54.0916 | PCB-159 | 4.99e+07 | 1.31 | y | 1.11 | 46:17 | 1.000 | 0.996-1.006 | 48.9218 |
| PCB-124 | 6.15e+07 | 1.64 | y | 1.47 | 41:15 | 0.993 | 0.988-0.998 | 52.2719 | PCB-128/162 | 9.15e+07 | 1.28 | y | 1.05 | 46:34 | 1.006 | 1.002-1.012 | 95.2665 |
| PCB-107/109 | 1.09e+08 | 1.67 | y | 1.32 | 41:24 | 0.996 | 0.991-1.001 | 102.971 | PCB-167 | 5.75e+07 | 1.27 | y | 1.20 | 46:59 | 1.001 | 0.995-1.005 | 48.3899 |
| PCB-123 | 4.81e+07 | 1.59 | y | 1.17 | 41:34 | 1.000 | 0.996-1.006 | 51.4161 | PCB-156 | 5.27e+07 | 1.26 | y | 1.14 | 48:16 | 1.000 | 0.996-1.006 | 48.8627 |
| - PCB-106/118 | 1.04e+08 | 1.63 | y | 1.17 | 41:47 | 1.001 | 0.996-1.006 | 104.673 | PCB-157 | 5.54e+07 | 1.28 | y | 1.16 | 48:32 | 1.000 | 0.995-1.005 | 47.2954 |
| - PCB-114 | 5.58e+07 | 1.62 | y | 1.30 | 42:25 | 1.001 | 0.995-1.005 | 51.1618 | PCB-169 | 5.03e+07 | 1.30 | y | 1.12 | 50:39 | 1.000 | 0.995-1.005 | 47.1971 |
| PCB-122 | 5.05e+07 | 1.62 | y | 1.12 | 42:33 | 1.004 | 0.999-1.009 | 53.5936 | PCB-188 | 5.48e+07 | 1.06 | y | 1.58 | 43:04 | 1.000 | 0.996-1.006 | 49.7710 |
| PCB-105 | 5.67e+07 | 1.62 | y | 1.30 | 43:17 | 1.001 | 0.995-1.005 | 51.5744 | PCB-184 | 5.77e+07 | 1.09 | y | 1.63 | 43:30 | 1.010 | 1.006-1.016 | 50.8032 |
| PCB-127 | 6.28e+07 | 1.61 | y | 1.33 | 43:36 | 1.000 | 0.996-1.006 | 51.0295 | PCB-179 | 4.55e+07 | 1.08 | y | 1.30 | 44:18 | 1.029 | 1.024-1.034 | 50.1281 |
| PCB-126 | 5.11e+07 | 1.62 | y | 1.18 | 45:30 | 1.000 | 0.995-1.005 | 52.8724 | PCB-176 | 5.21e+07 | 1.08 | y | 1.48 | 44:46 | 1.040 | 1.035-1.045 | 50.6552 |
| PCB-155 | 4.17e+07 | 1.28 | y | 1.11 | 37:16 | 1.001 | 0.966-1.006 | 49.7461 | PCB-186 | 5.15e+07 | 1.08 | y | 1.45 | 45:22 | 1.054 | 1.050-1.060 | 50.8863 |
| PCB-150 | 4.07e+07 | 1.29 | y | 1.00 | 38:31 | 1.034 | 1.030-1.040 | 54.1882 | PCB-178 | 3.74e+07 | 1.06 | y | 1.03 | 45:51 | 1.065 | 1.061-1.071 | 51.9068 |
| PCB-152 | 4.35e+07 | 1.30 | y | 1.12 | 39:00 | 1.047 | 1.043-1.053 | 51.7889 | PCB-175 | 3.76e+07 | 1.08 | y | 1.01 | 46:12 | 1.073 | 1.069-1.079 | 53.3562 |
| PCB-145 | 4.75e+07 | 1.30 | y | 1.20 | 39:27 | 1.060 | 1.055-1.065 | 52.5681 | PCB-182/187 | 9.00e+07 | 1.08 | y | 1.25 | 46:23 | 1.077 | 1.073-1.083 | 103.287 |
| PCB-136 | 4.84e+07 | 1.30 | y | 1.18 | 39:46 | 1.068 | 1.064-1.074 | 54.5518 | PCB-183 | 4.29e+07 | 1.06 | y | 1.21 | 46:41 | 1.084 | 1.081-1.091 | 50.9700 |
| PCB-148 | 2.88e+07 | 1.34 | y | 0.74 | 39:52 | 1.071 | 1.066-1.076 | 51.3740 | PCB-185 | 4.85e+07 | 1.06 | y | 1.80 | 47:21 | 0.956 | 0.951-0.961 | 48.3014 |
| PCB-154 | 3.64e+07 | 1.27 | y | 0.86 | 40:22 | 1.084 | 1.080-1.090 | 56.4621 | PCB-174 | 3.81e+07 | 1.06 | y | 1.38 | 47:42 | 0.963 | 0.958-0.968 | 49.5977 |
| PCB-151 | 3.12e+07 | 1.30 | y | 0.75 | 41:00 | 1.101 | 1.097-1.107 | 55.4734 | PCB-181 | 3.96e+07 | 1.09 | y | 1.38 | 47:49 | 0.965 | 0.960-0.970 | 51.4107 |
| PCB-135 | 3.26e+07 | 1.28 | y | 0.79 | 41:13 | 1.107 | 1.103-1.113 | 54.7418 | PCB-177 | 3.57e+07 | 1.05 | y | 1.26 | 47:59 | 0.969 | 0.963-0.973 | 50.9625 |
| PCB-144 | 3.22e+07 | 1.30 | y | 0.76 | 41:19 | 1.110 | 1.105-1.117 | 56.1450 | PCB-171 | 4.43e+07 | 1.05 | y | 1.58 | 48:17 | 0.975 | 0.970-0.980 | 50.2364 |
| PCB-147 | 3.63e+07 | 1.30 | y | 0.82 | 41:27 | 1.113 | 1.109-1.121 | 58.8287 | PCB-173 | 3.21e+07 | 1.05 | y | 1.11 | 48:43 | 0.984 | 0.978-0.988 | 51.8023 |
| PCB-139/149 | 6.43e+07 | 1.30 | y | 0.76 | 41:43 | 1.120 | 1.116-1.128 | 112.078 | PCB-172 | 4.69e+07 | 1.06 | y | 1.63 | 49:09 | 0.992 | 0.987-0.997 | 51.4659 |
| - PCB-140 | 3.13e+07 | 1.26 | y | 0.72 | 41:54 | 1.125 | 1.121-1.133 | 57.5300 | PCB-192 | 4.92e+07 | 1.06 | y | 1.74 | 49:21 | 0.996 | 0.991-1.001 | 50.7073 |
| - PCB-134/143 | 7.33e+07 | 1.28 | y | 0.92 | 42:20 | 0.975 | 0.970-0.980 | 97.0765 | PCB-180 | 3.79e+07 | 1.05 | y | 1.34 | 49:34 | 1.001 | 0.995-1.005 | 50.5069 |

Integrations

by

Analyst: MS

RL: MONO, TRI - DECA: _____

Date: 9/23/14

Client ID: OPR
Lab ID: B4I0061-BS1

Filename: 140919E2 S:3 Acq:20-SEP-14 01:51:50
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000

ConCal: ST140919E2-1

Page 4 of

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Name | Resp | RA | RT | RRF | Conc | |
|---------------|----------|--------|------|-------|-------|-------------|-----|---------|-----------------|----------|--------|-------|------|---------|------------------------------|
| PCB-193 | 4.67e+07 | 1.07 y | 1.72 | 49:45 | 1.004 | 0.999-1.009 | | 48.7929 | Total Mono-PCB | 1.96e+08 | 3.13 y | 16:19 | 1.27 | 122.088 | |
| PCB-191 | 4.66e+07 | 1.06 y | 1.69 | 50:00 | 1.009 | 1.004-1.014 | | 49.3506 | Total Di-PCB | 1.44e+09 | 1.63 y | 20:19 | 1.21 | 1281.73 | |
| PCB-170 | 3.69e+07 | 1.07 y | 1.60 | 51:01 | 1.000 | 0.995-1.005 | | 51.0845 | Total Tri-PCB | 4.11e+08 | 1.10 y | 24:26 | 1.10 | 387.758 | |
| PCB-190 | 4.87e+07 | 1.06 y | 2.21 | 51:12 | 1.004 | 0.998-1.008 | | 48.8343 | Total Tri-PCB | 1.01e+09 | 1.05 y | 28:08 | 1.21 | 914.789 | Sum:1302.55 |
| PCB-189 | 4.38e+07 | 1.06 y | 1.55 | 52:29 | 1.000 | 0.995-1.005 | | 48.7701 | Total Tetra-PCB | 2.11e+09 | 0.82 y | 28:11 | 1.09 | 2187.94 | |
| PCB-202 | 4.03e+07 | 0.95 y | 1.08 | 48:29 | 1.000 | 0.995-1.005 | | 48.8873 | Total Penta-PCB | 1.76e+09 | 1.67 y | 32:53 | 1.18 | 2163.77 | |
| PCB-201 | 4.39e+07 | 0.95 y | 1.15 | 48:58 | 1.010 | 1.005-1.015 | | 50.1897 | Total Penta-PCB | 2.92e+08 | 1.62 y | 42:25 | 1.25 | 274.275 | Sum:2438.04 |
| PCB-204 | 4.26e+07 | 0.90 y | 1.14 | 49:08 | 1.014 | 1.008-1.018 | | 49.1810 | Total Hexa-PCB | 5.15e+08 | 1.28 y | 37:16 | 0.90 | 765.476 | |
| PCB-197 | 4.06e+07 | 0.93 y | 1.07 | 49:25 | 1.020 | 1.015-1.025 | | 49.6837 | Total Hexa-PCB | 1.29e+09 | 1.28 y | 42:20 | 1.11 | 1361.69 | Sum:2127.17 |
| PCB-200 | 4.02e+07 | 0.93 y | 1.06 | 50:17 | 1.037 | 1.032-1.044 | | 49.7118 | Total Hepta-PCB | 1.07e+09 | 1.06 y | 43:04 | 1.42 | 1222.02 | |
| PCB-198 | 2.97e+07 | 0.91 y | 0.76 | 51:36 | 1.065 | 1.059-1.069 | | 51.6059 | Total Octa-PCB | 3.34e+08 | 0.95 y | 48:29 | 0.96 | 458.624 | |
| PCB-199 | 3.26e+07 | 0.94 y | 0.80 | 51:43 | 1.067 | 1.061-1.071 | | 53.6516 | Total Octa-PCB | 1.10e+08 | 0.92 y | 53:08 | 1.33 | 149.941 | Sum:608.565 |
| - PCB-196/203 | 6.45e+07 | 0.92 y | 0.80 | 51:59 | 1.073 | 1.066-1.076 | | 105.713 | Total Nona-PCB | 1.02e+08 | 1.37 y | 53:16 | 1.01 | 157.124 | |
| - PCB-195 | 3.38e+07 | 0.92 y | 1.23 | 53:08 | 0.984 | 0.979-0.989 | | 49.5293 | Total Deca-PCB | 2.71e+07 | 1.18 y | 57:00 | 1.17 | 50.6692 | |
| PCB-194 | 3.30e+07 | 0.93 y | 1.21 | 54:00 | 1.000 | 0.995-1.005 | | 49.0128 | | | | | | | |
| PCB-205 | 4.13e+07 | 0.90 y | 1.54 | 54:16 | 1.005 | 1.001-1.011 | | 48.2262 | | | | | | | Total PCB Conc:11427.9322610 |
| PCB-208 | 3.54e+07 | 1.37 y | 0.93 | 53:16 | 1.000 | 0.995-1.005 | | 51.3490 | | | | | | | |
| PCB-207 | 4.22e+07 | 1.38 y | 1.08 | 53:35 | 1.006 | 1.001-1.011 | | 52.5534 | | | | | | | |
| PCB-206 | 2.38e+07 | 1.38 y | 1.02 | 55:39 | 1.000 | 0.995-1.005 | | 52.2110 | | | | | | | |
| PCB-209 | 2.71e+07 | 1.18 y | 1.17 | 57:00 | 1.000 | 0.995-1.005 | | 50.6692 | | | | | | | |

RL: MONO, TRI - DECA: _____

Integrations

by
Analyst: MM
Date: 9/23/14

Client ID: OPR
Lab ID: B4I0061-BS1

Filename: 140919E2 S:3 Acq:20-SEP-14 01:51:50
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.000

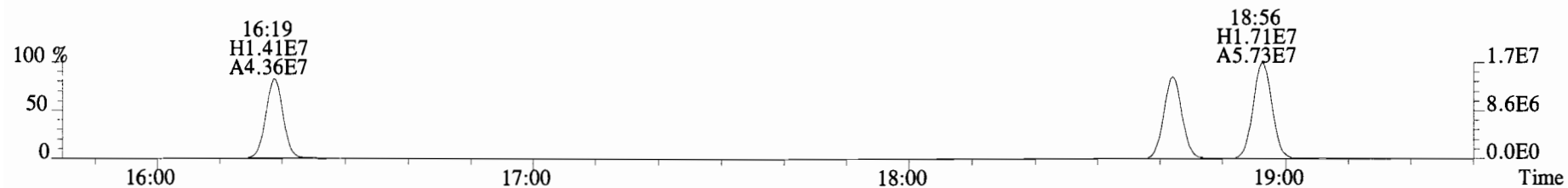
ConCal: ST140919E2-1
EndCAL: NA

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec | CRS vs. RS | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec |
|-------------|----------|------|-----|------|-------|-------|-------------|------|------|-------------|----------|------|----|------|-------|-------|-------------|------|------|-----|
| 13C-PCB-1 | 1.18e+08 | 3.47 | y | 0.87 | 16:18 | 0.624 | 0.629-0.635 | 89.1 | 89.1 | | | | | | | | | | | |
| 13C-PCB-3 | 1.31e+08 | 3.54 | y | 0.91 | 18:55 | 0.724 | 0.725-0.733 | 94.1 | 94.1 | | | | | | | | | | | |
| 13C-PCB-4 | 5.82e+07 | 1.60 | y | 0.59 | 20:16 | 0.776 | 0.775-0.783 | 65.1 | 65.1 | 13C-PCB-79 | 1.19e+08 | 0.83 | y | 1.02 | 38:01 | 1.029 | 1.023-1.034 | 84.9 | 84.9 | |
| 13C-PCB-9 | 9.25e+07 | 1.60 | y | 0.90 | 22:03 | 0.844 | 0.842-0.850 | 67.7 | 67.7 | 13C-PCB-178 | 5.01e+07 | 0.46 | y | 0.61 | 45:50 | 0.985 | 0.979-0.990 | 90.5 | 90.5 | |
| 13C-PCB-11 | 1.04e+08 | 1.57 | y | 0.94 | 25:26 | 0.973 | 0.968-0.978 | 72.9 | 72.9 | PS vs. IS | | | | | | | | | | |
| 13C-PCB-32 | 1.10e+08 | 1.14 | y | 0.80 | 27:20 | 1.046 | 1.040-1.050 | 90.6 | 90.6 | | | | | | | | | | | |
| 13C-PCB-19 | 6.98e+07 | 1.12 | y | 0.53 | 24:25 | 0.934 | 0.930-0.940 | 86.1 | 86.1 | | | | | | | | | | | |
| 13C-PCB-28 | 9.15e+07 | 1.10 | y | 0.93 | 29:18 | 1.004 | 0.999-1.009 | 75.0 | 75.0 | | | | | | | | | | | |
| 13C-PCB-52 | 7.42e+07 | 0.86 | y | 0.77 | 31:42 | 0.858 | 0.853-0.861 | 70.0 | 70.0 | | | | | | | | | | | |
| 13C-PCB-54 | 8.44e+07 | 0.85 | y | 0.97 | 28:10 | 0.762 | 0.758-0.766 | 63.3 | 63.3 | | | | | | | | | | | |
| 13C-PCB-37 | 9.03e+07 | 1.15 | y | 0.84 | 33:10 | 1.136 | 1.131-1.143 | 82.2 | 82.2 | | | | | | | | | | | |
| 13C-PCB-47 | 7.99e+07 | 0.86 | y | 0.81 | 32:12 | 0.871 | 0.866-0.874 | 71.6 | 71.6 | | | | | | | | | | | |
| 13C-PCB-81 | 1.07e+08 | 0.84 | y | 0.92 | 39:14 | 1.062 | 1.057-1.067 | 84.6 | 84.6 | | | | | | | | | | | |
| 13C-PCB-70 | 1.00e+08 | 0.87 | y | 1.00 | 35:43 | 0.967 | 0.961-0.971 | 73.0 | 73.0 | | | | | | | | | | | |
| 13C-PCB-80 | 1.06e+08 | 0.86 | y | 1.03 | 36:08 | 0.978 | 0.972-0.982 | 74.7 | 74.7 | | | | | | | | | | | |
| 13C-PCB-104 | 7.13e+07 | 1.63 | y | 1.00 | 32:52 | 0.833 | 0.828-0.836 | 68.1 | 68.1 | | | | | | | | | | | |
| 13C-PCB-101 | 6.56e+07 | 1.61 | y | 0.78 | 37:41 | 0.956 | 0.951-0.961 | 80.0 | 80.0 | RS | | | | | | | | | | |
| 13C-PCB-95 | 5.53e+07 | 1.58 | y | 0.74 | 36:01 | 0.913 | 0.908-0.918 | 71.3 | 71.3 | | | | | | | | | | | |
| 13C-PCB-77 | 1.10e+08 | 0.85 | y | 0.94 | 39:50 | 1.078 | 1.073-1.083 | 85.1 | 85.1 | | | | | | | | | | | |
| 13C-PCB-114 | 8.42e+07 | 1.68 | y | 1.36 | 42:23 | 0.910 | 0.905-0.915 | 68.5 | 68.5 | | | | | | | | | | | |
| 13C-PCB-118 | 8.44e+07 | 1.61 | y | 0.96 | 41:44 | 1.058 | 1.054-1.064 | 84.1 | 84.2 | | | | | | | | | | | |
| 13C-PCB-123 | 8.01e+07 | 1.64 | y | 0.89 | 41:33 | 1.054 | 1.050-1.060 | 85.7 | 85.7 | | | | | | | | | | | |
| 13C-PCB-97 | 6.11e+07 | 1.62 | y | 0.70 | 39:00 | 0.989 | 0.984-0.994 | 82.9 | 82.9 | | | | | | | | | | | |
| 13C-PCB-127 | 9.24e+07 | 1.68 | y | 1.47 | 43:35 | 0.936 | 0.931-0.941 | 69.5 | 69.5 | | | | | | | | | | | |
| 13C-PCB-105 | 8.47e+07 | 1.69 | y | 1.37 | 43:15 | 0.929 | 0.924-0.934 | 68.8 | 68.8 | | | | | | | | | | | |
| 13C-PCB-141 | 7.62e+07 | 1.32 | y | 1.07 | 44:09 | 0.948 | 0.943-0.953 | 78.6 | 78.6 | | | | | | | | | | | |
| 13C-PCB-153 | 8.24e+07 | 1.33 | y | 1.15 | 43:25 | 0.933 | 0.927-0.937 | 79.7 | 79.7 | | | | | | | | | | | |
| 13C-PCB-155 | 7.53e+07 | 1.27 | y | 0.84 | 37:14 | 0.944 | 0.939-0.949 | 85.7 | 85.7 | | | | | | | | | | | |
| 13C-PCB-126 | 8.18e+07 | 1.70 | y | 1.31 | 45:29 | 0.977 | 0.972-0.982 | 69.4 | 69.4 | | | | | | | | | | | |
| 13C-PCB-167 | 9.91e+07 | 1.34 | y | 1.35 | 46:57 | 1.009 | 1.004-1.014 | 81.3 | 81.3 | | | | | | | | | | | |
| 13C-PCB-156 | 9.50e+07 | 1.33 | y | 1.30 | 48:15 | 1.037 | 1.032-1.042 | 81.3 | 81.3 | | | | | | | | | | | |
| 13C-PCB-138 | 8.00e+07 | 1.31 | y | 1.10 | 44:59 | 0.966 | 0.961-0.971 | 80.6 | 80.6 | | | | | | | | | | | |
| 13C-PCB-159 | 9.17e+07 | 1.30 | y | 1.25 | 46:17 | 0.994 | 0.989-0.999 | 81.5 | 81.5 | | | | | | | | | | | |
| 13C-PCB-157 | 1.01e+08 | 1.35 | y | 1.36 | 48:31 | 1.042 | 1.038-1.048 | 82.3 | 82.3 | | | | | | | | | | | |
| 13C-PCB-180 | 5.58e+07 | 0.47 | y | 0.68 | 49:32 | 1.064 | 1.060-1.070 | 90.4 | 90.4 | | | | | | | | | | | |
| 13C-PCB-188 | 6.96e+07 | 0.45 | y | 0.92 | 43:03 | 0.925 | 0.919-0.929 | 84.2 | 84.2 | | | | | | | | | | | |
| 13C-PCB-169 | 9.53e+07 | 1.31 | y | 1.29 | 50:38 | 1.088 | 1.083-1.093 | 82.2 | 82.2 | | | | | | | | | | | |
| 13C-PCB-170 | 4.52e+07 | 0.45 | y | 0.54 | 51:00 | 1.096 | 1.089-1.101 | 92.4 | 92.4 | | | | | | | | | | | |
| 13C-PCB-202 | 7.61e+07 | 0.89 | y | 0.84 | 48:28 | 1.041 | 1.036-1.046 | 101 | 101 | | | | | | | | | | | |
| 13C-PCB-189 | 5.80e+07 | 0.46 | y | 0.72 | 52:29 | 1.127 | 1.120-1.132 | 89.8 | 89.8 | | | | | | | | | | | |
| 13C-PCB-208 | 7.42e+07 | 0.78 | y | 1.08 | 53:15 | 0.981 | 0.976-0.986 | 85.8 | 85.8 | | | | | | | | | | | |
| 13C-PCB-194 | 5.56e+07 | 0.95 | y | 0.80 | 53:59 | 0.995 | 0.990-1.000 | 87.2 | 87.2 | | | | | | | | | | | |
| 13C-PCB-206 | 4.44e+07 | 0.79 | y | 0.65 | 55:38 | 1.025 | 1.021-1.031 | 85.5 | 85.5 | | | | | | | | | | | |
| 13C-PCB-209 | 4.58e+07 | 1.19 | y | 0.61 | 56:59 | 1.050 | 1.045-1.055 | 93.7 | 93.7 | | | | | | | | | | | |

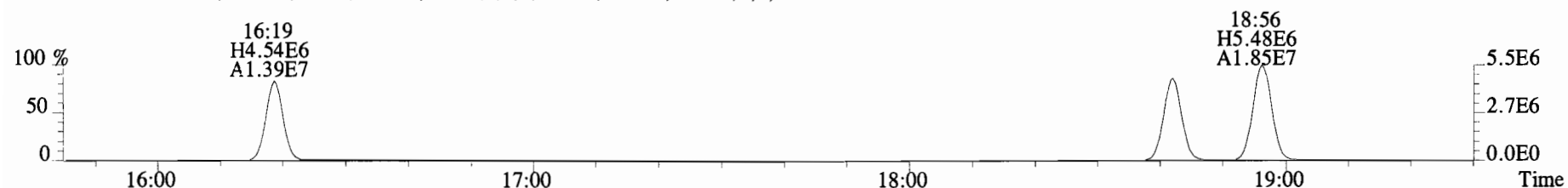
Analyst: M

Date: 9/23/14

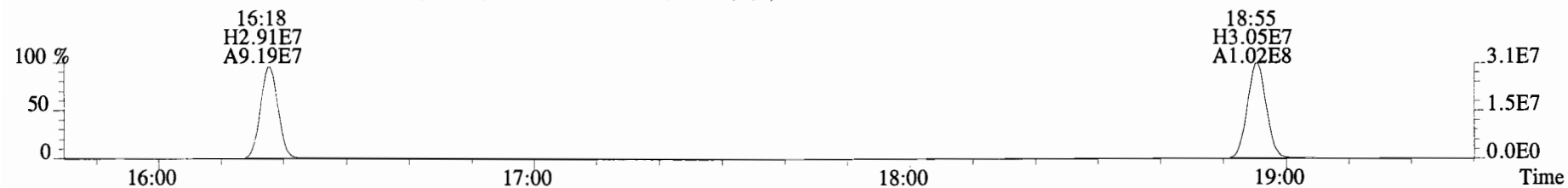
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188.0393 S:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2956.0,0.00%,F,F)



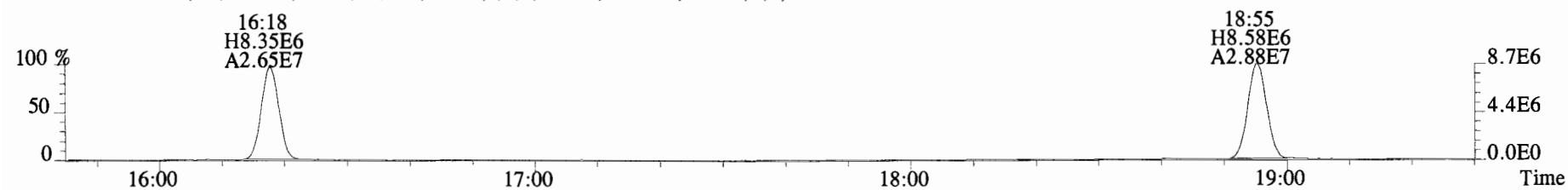
190.0363 S:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3392.0,0.00%,F,F)



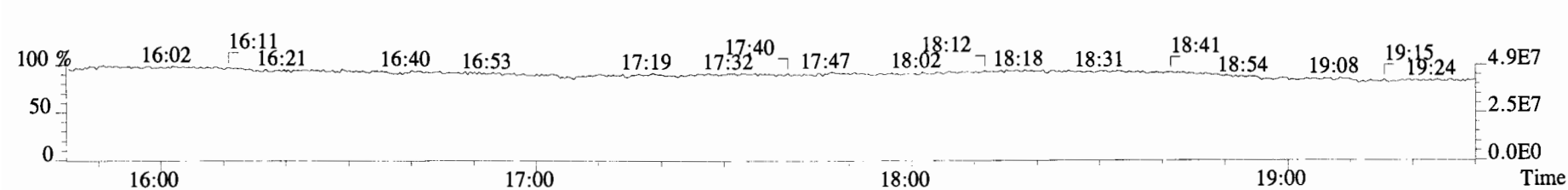
200.0795 S:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6516.0,0.00%,F,F)



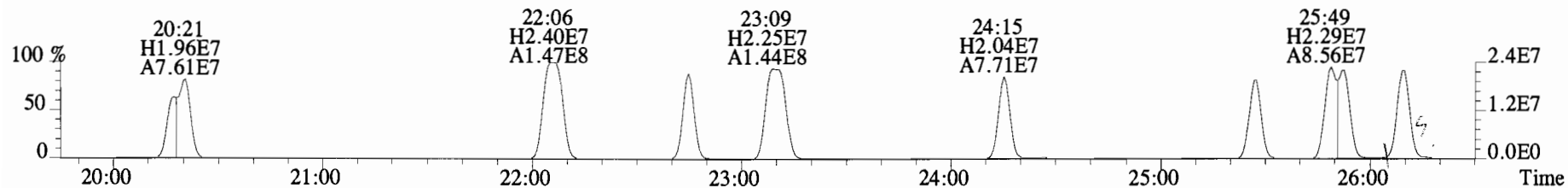
202.0766 S:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,67740.0,0.00%,F,F)



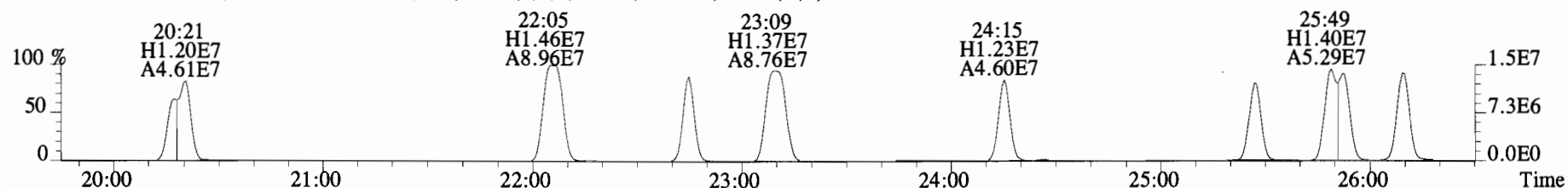
180.9880 S:3



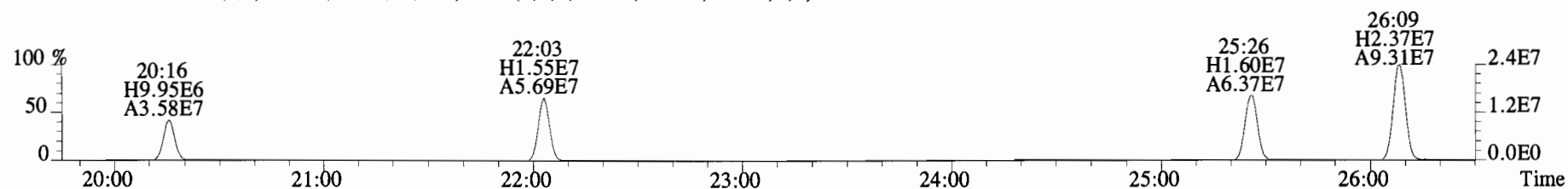
File:140919E2 #1-757 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
 222.0003 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6288.0,0.00%,F,F)



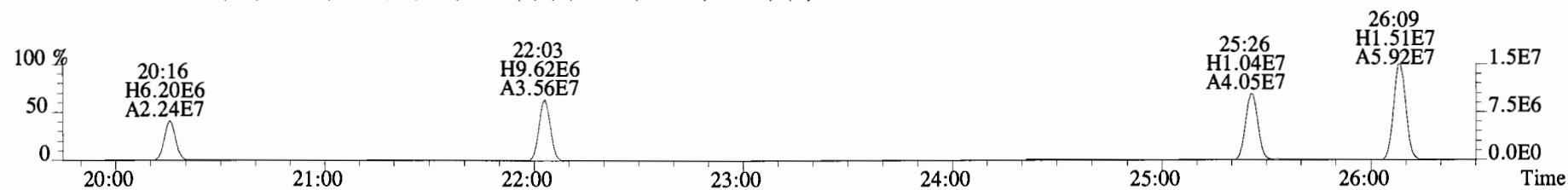
223.9974 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,31552.0,0.00%,F,F)



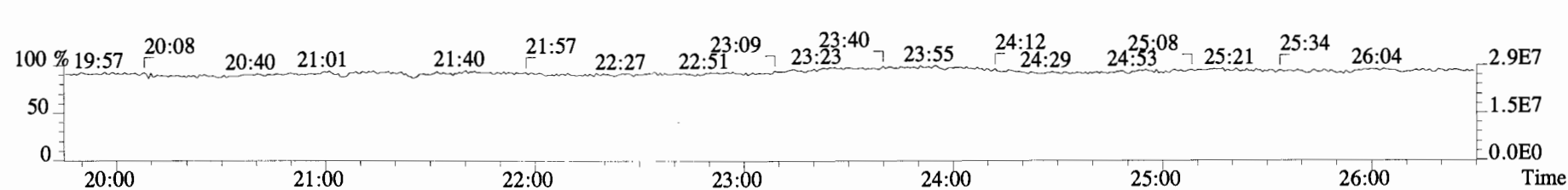
234.0406 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4632.0,0.00%,F,F)



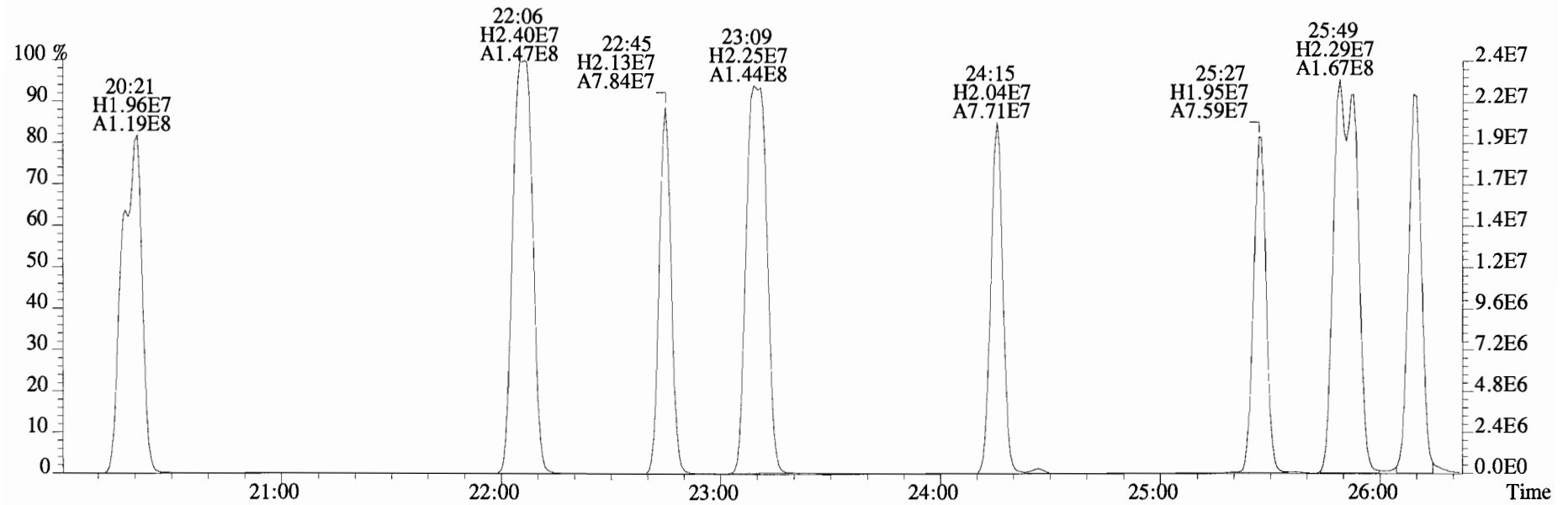
236.0376 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4080.0,0.00%,F,F)



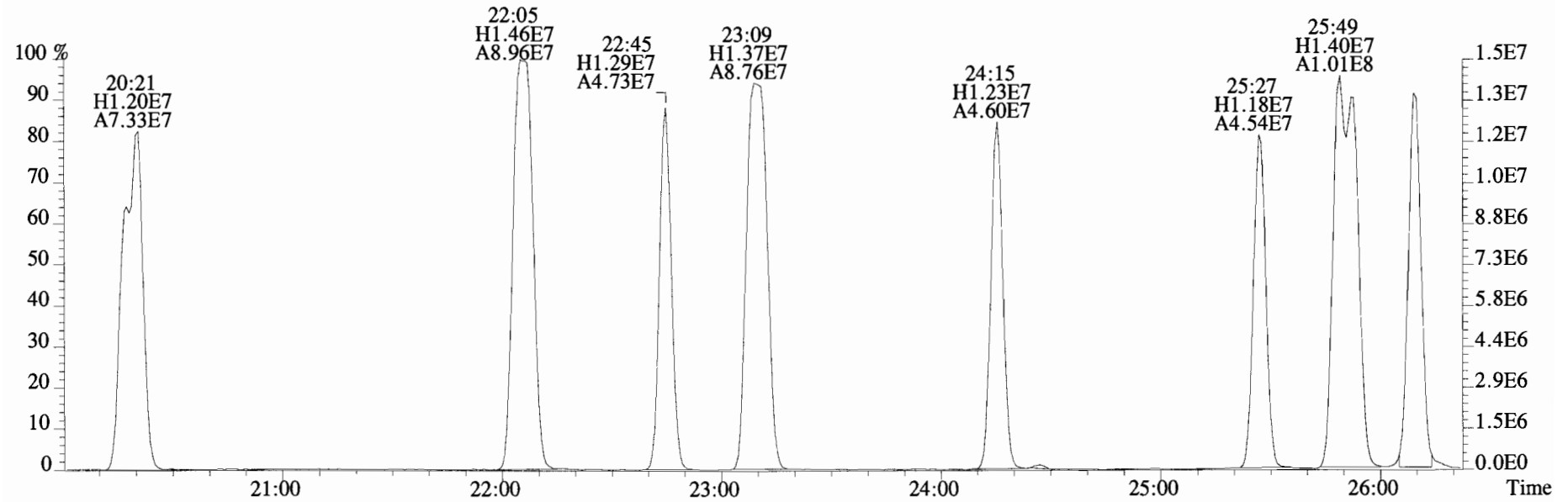
230.9856 S:3 F:2



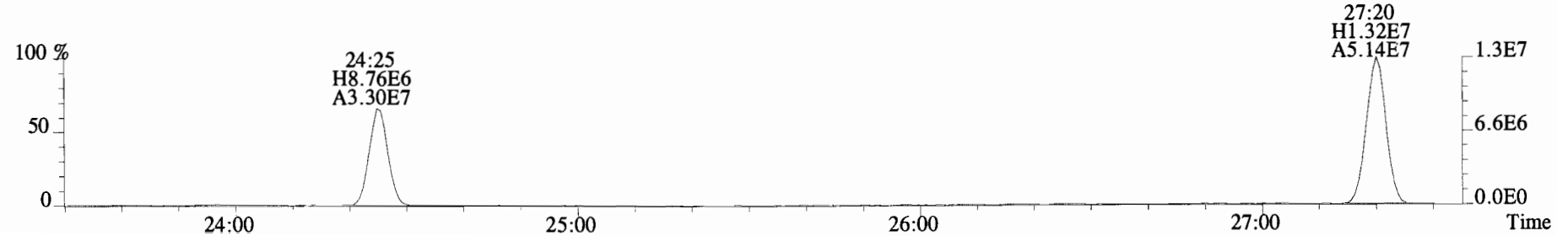
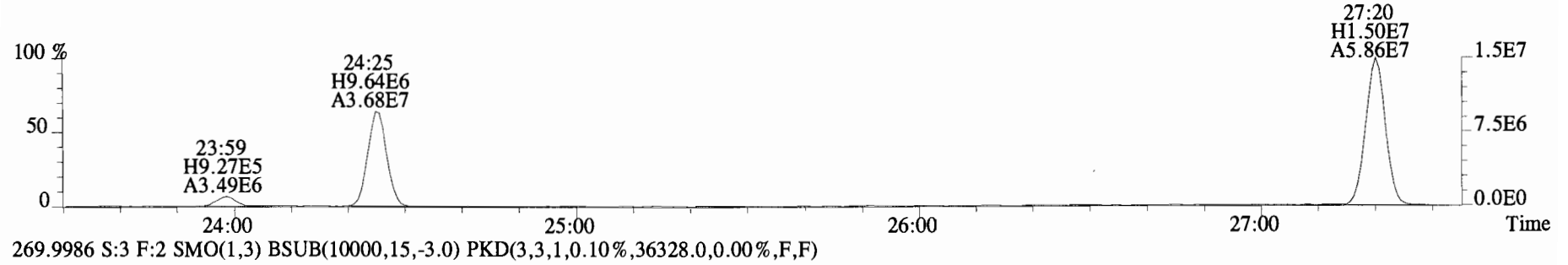
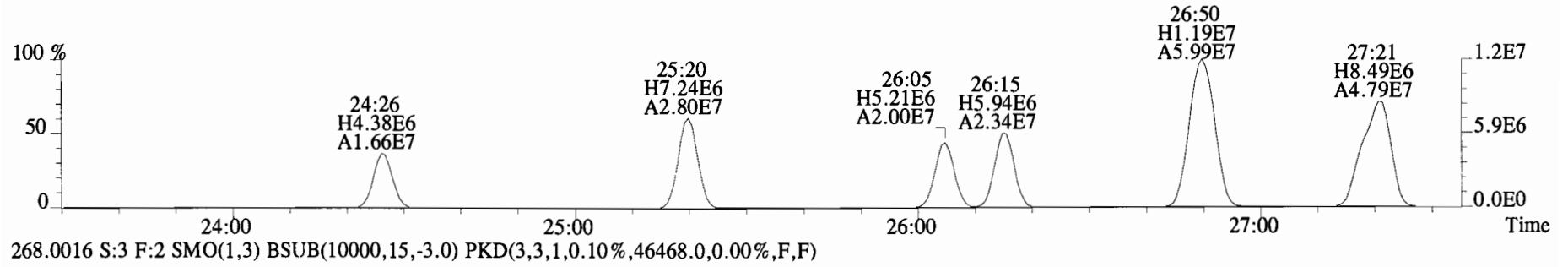
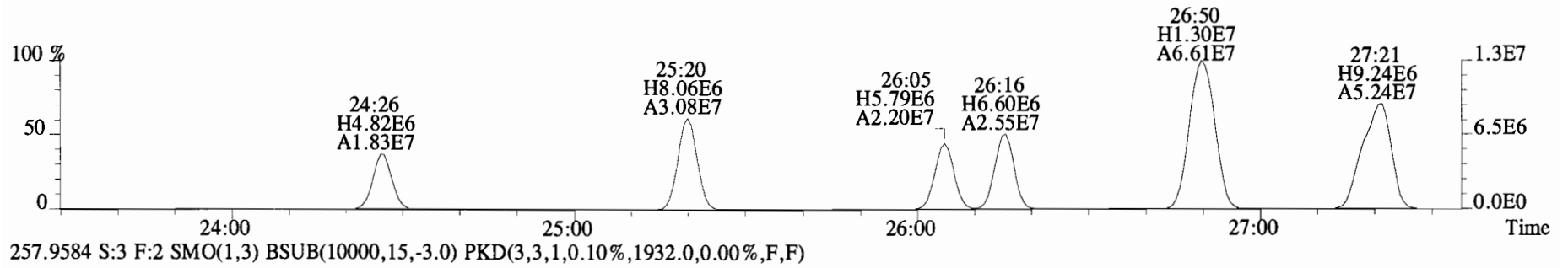
File:140919E2 #1-757 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
 222.0003 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6292.0,0.00%,F,F)



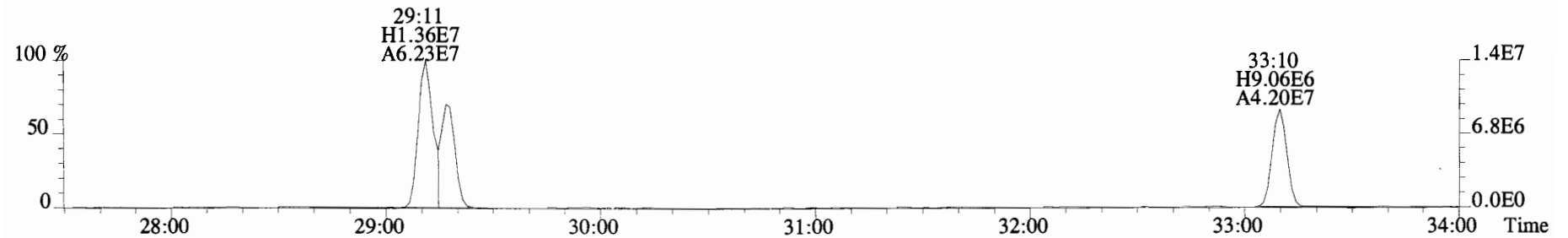
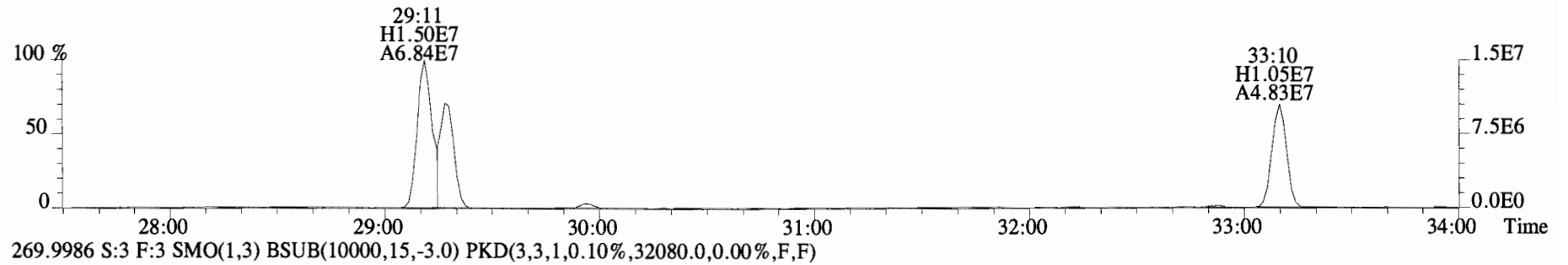
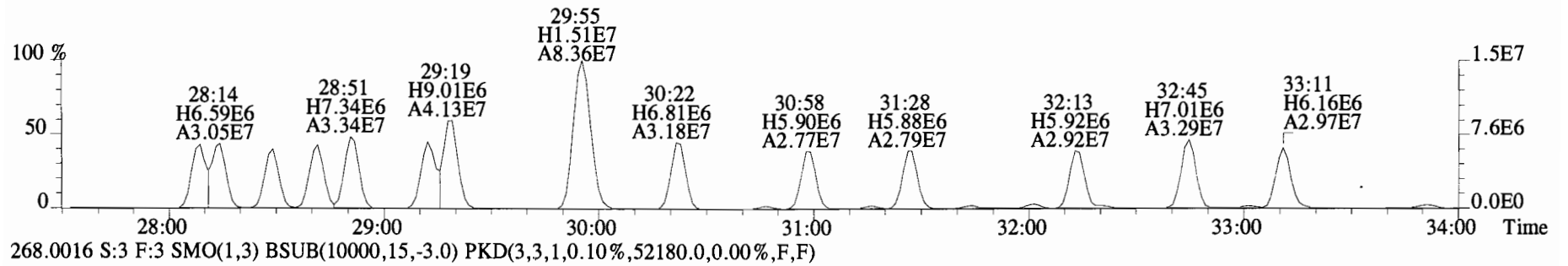
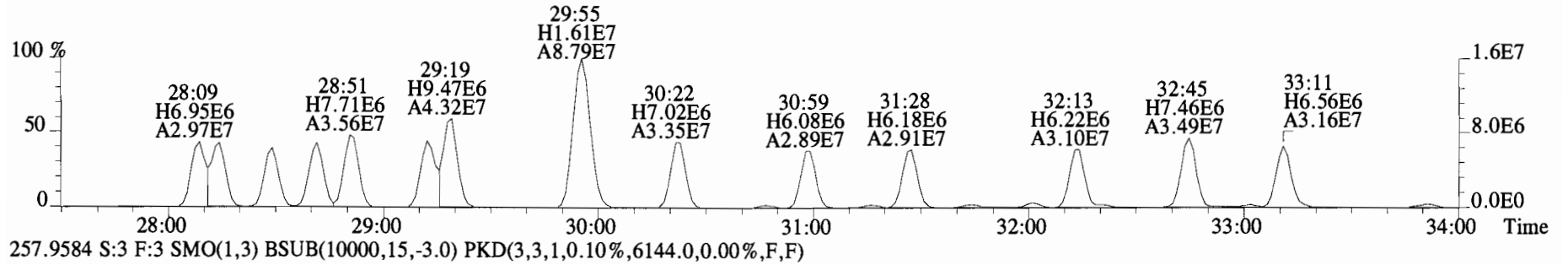
223.9974 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,31552.0,0.00%,F,F)



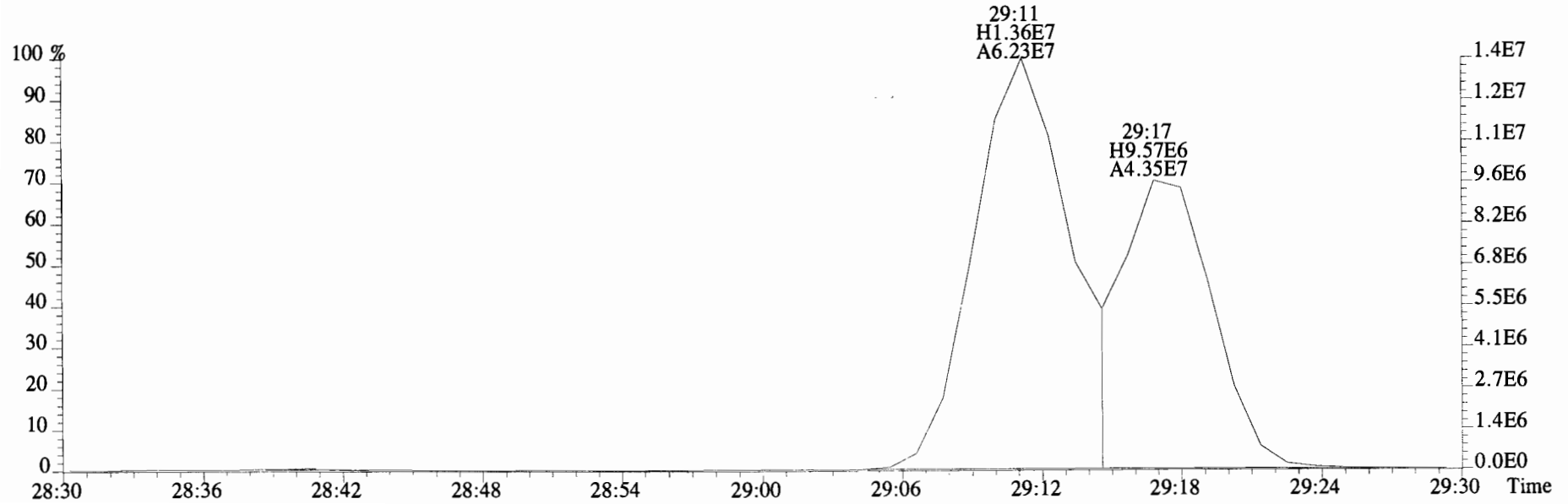
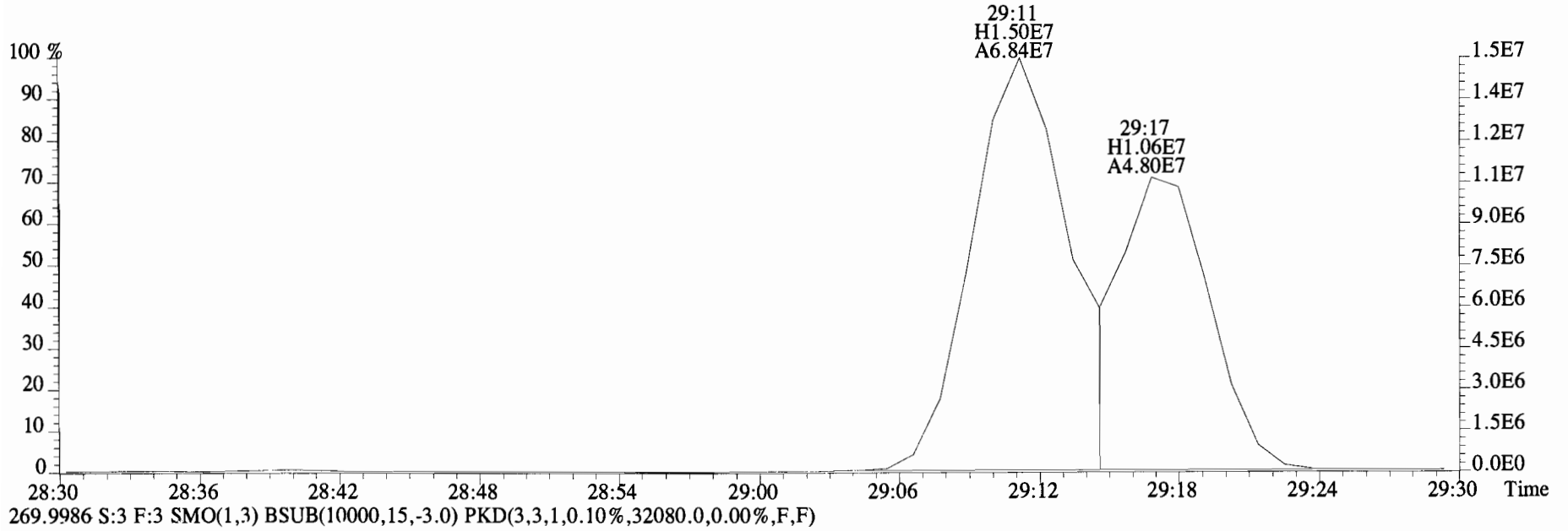
File:140919E2 #1-757 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
255.9613 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4492.0,0.00%,F,F)



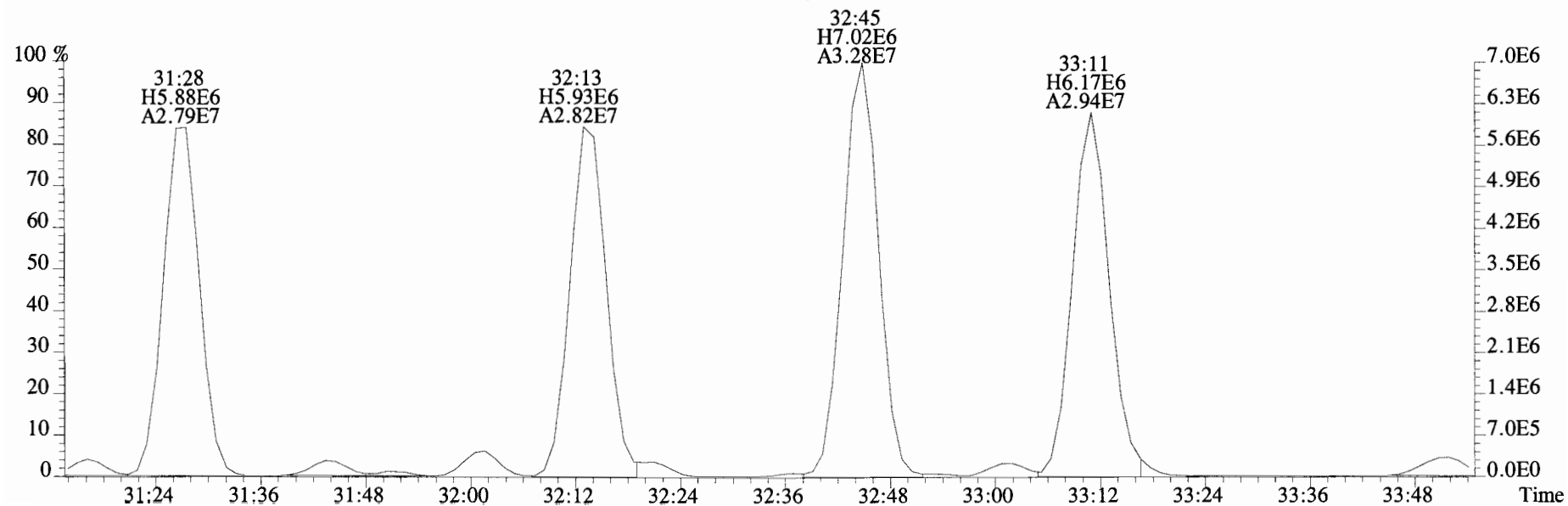
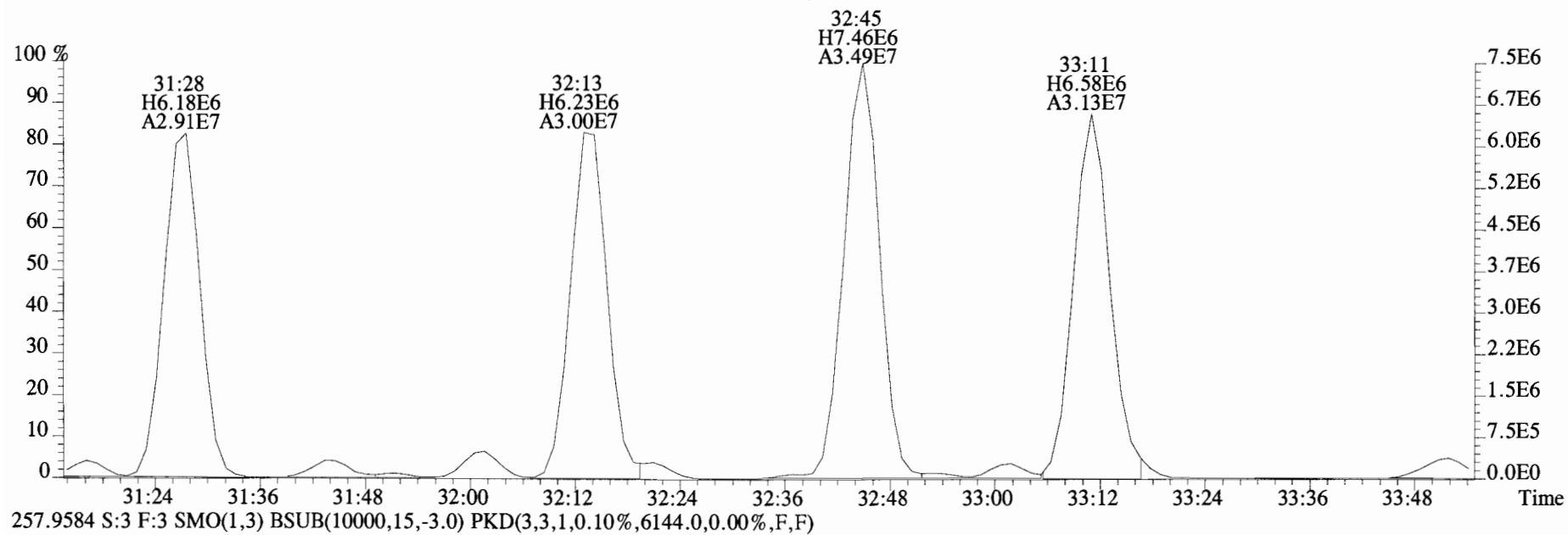
File:140919E2 #1-769 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
255.9613 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8412.0,0.00%,F,F)



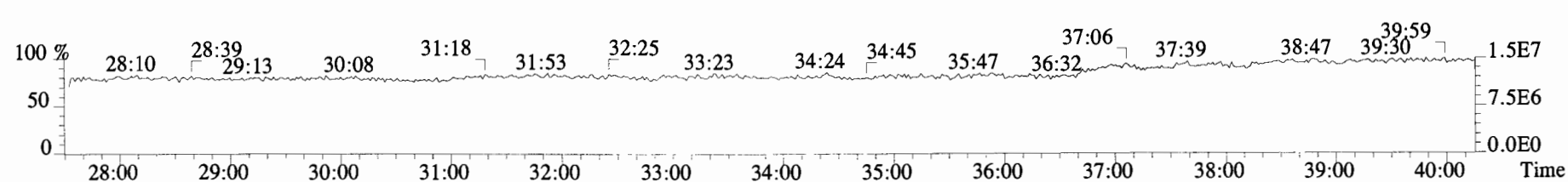
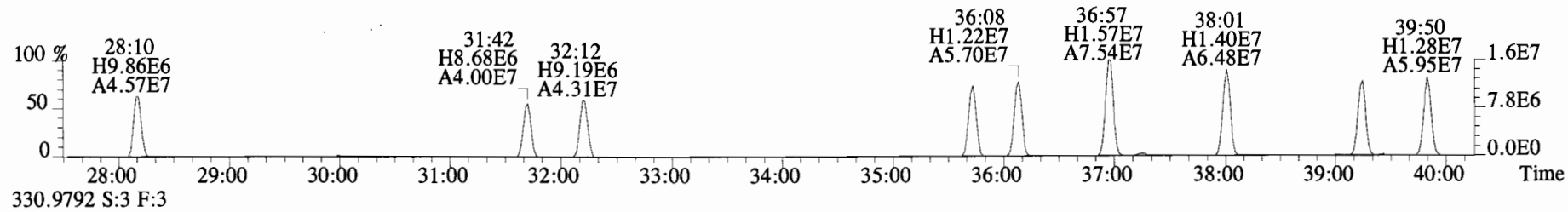
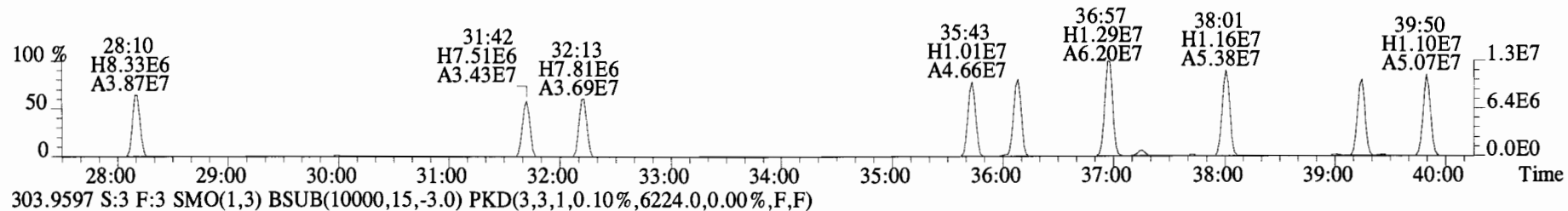
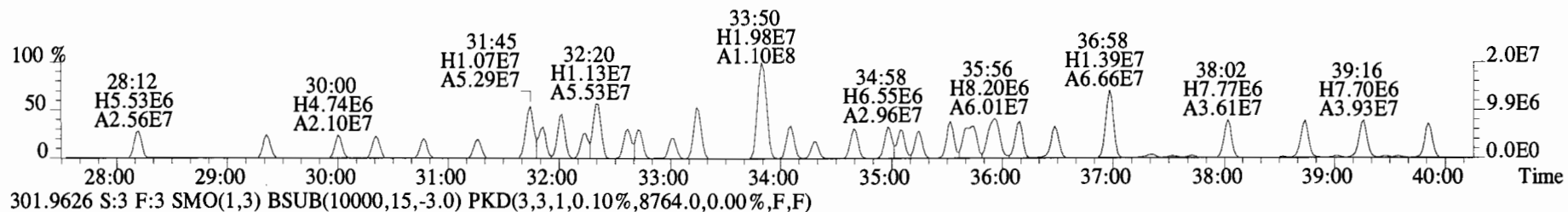
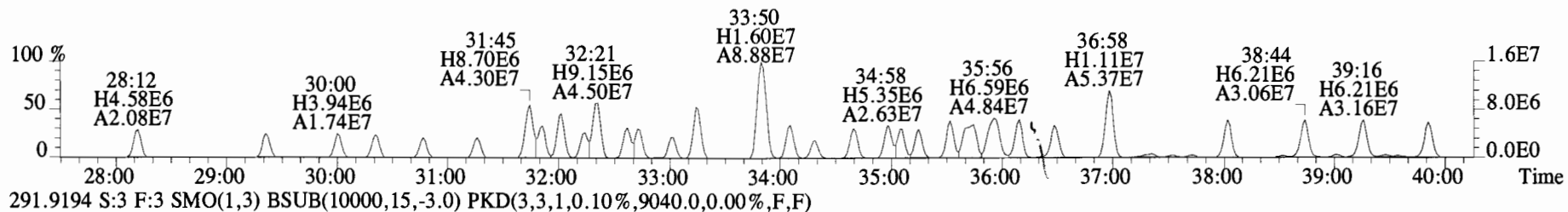
File:140919E2 #1-769 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
268.0016 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,52180.0,0.00%,F,F)



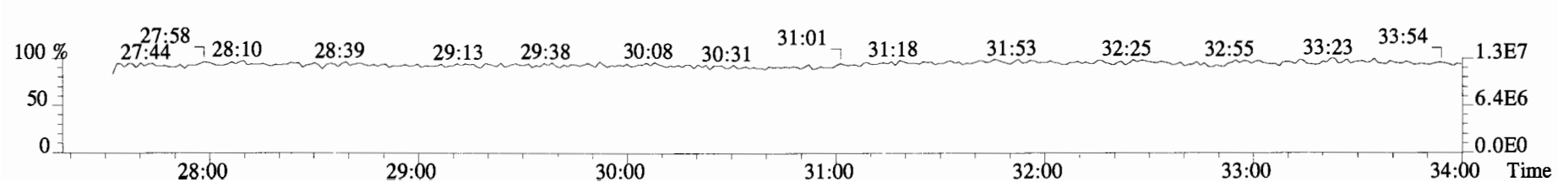
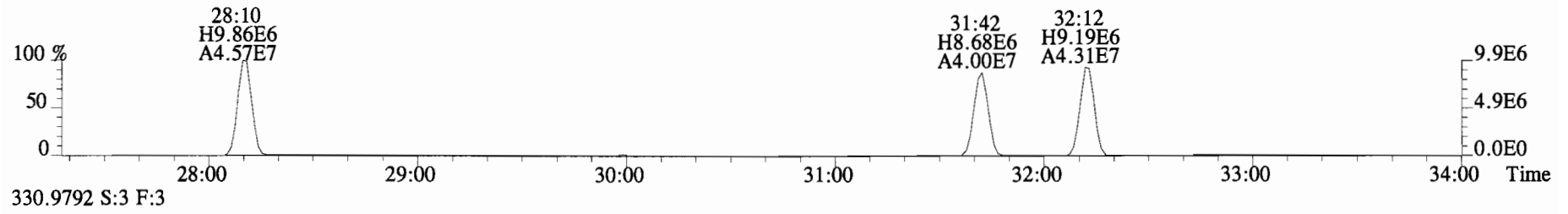
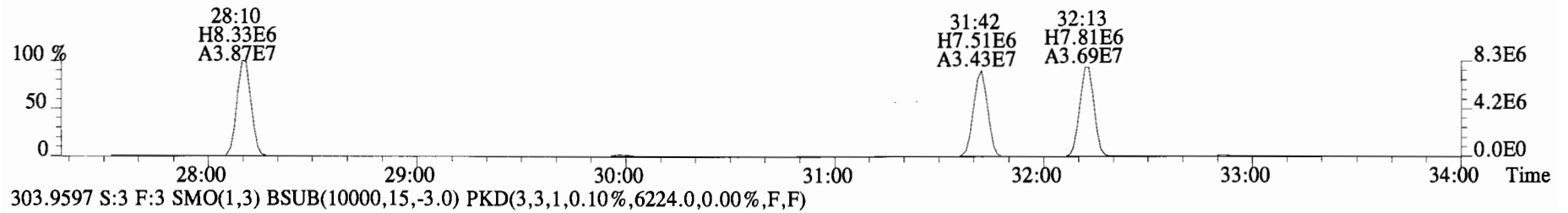
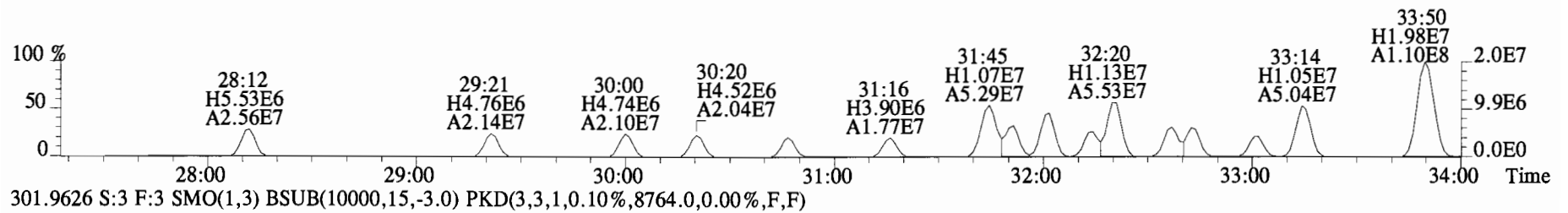
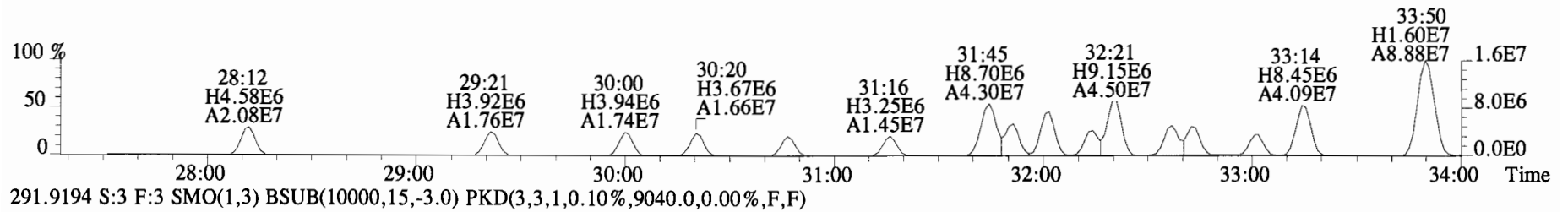
File:140919E2 #1-769 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
255.9613 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8412.0,0.00%,F,F)



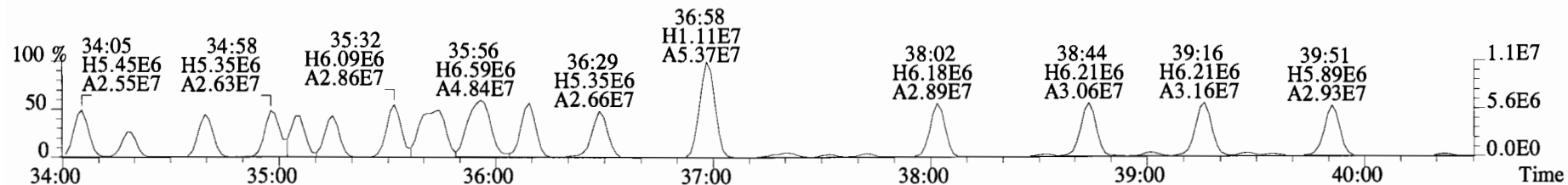
File:140919E2 #1-769 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8508.0,0.00%,F,F)



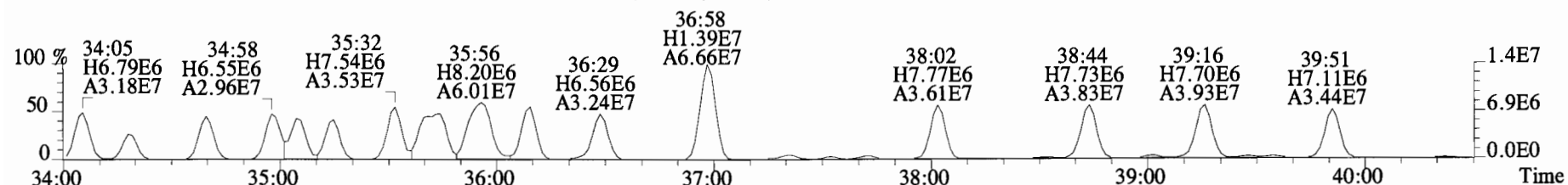
File:140919E2 #1-769 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
 289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8508.0,0.00%,F,F)



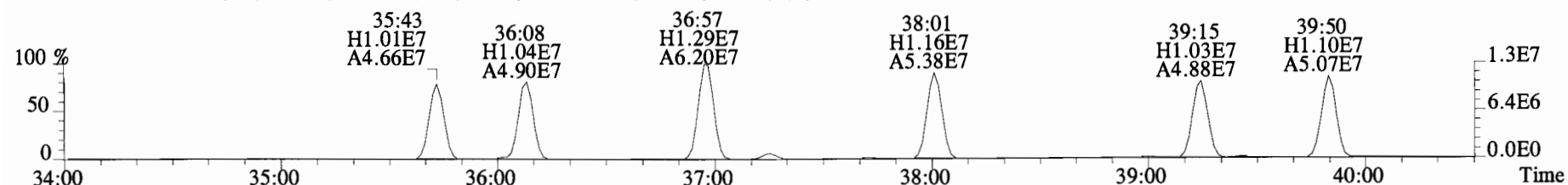
File:140919E2 #1-769 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8508.0,0.00%,F,F)



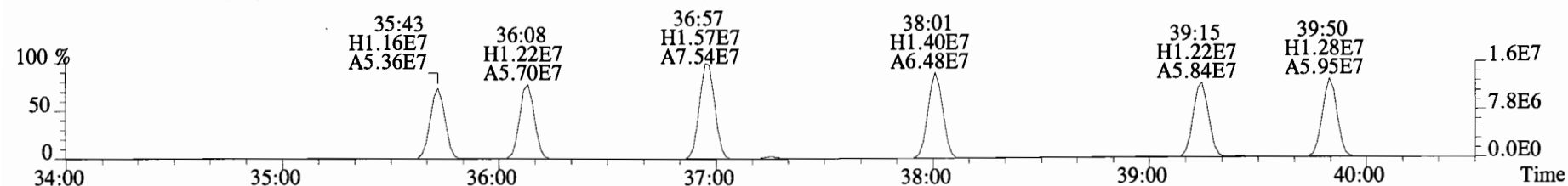
291.9194 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9040.0,0.00%,F,F)



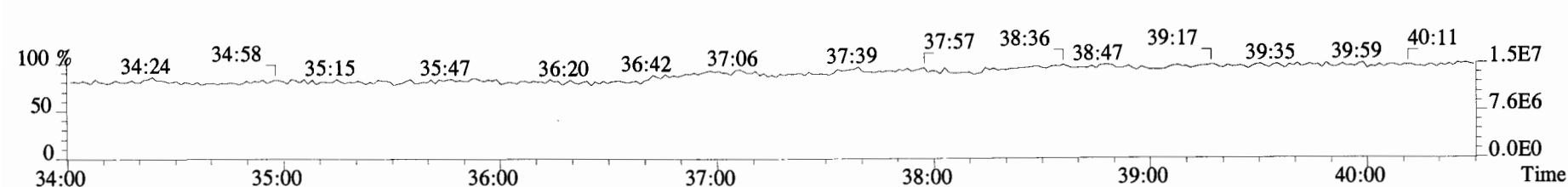
301.9626 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8764.0,0.00%,F,F)



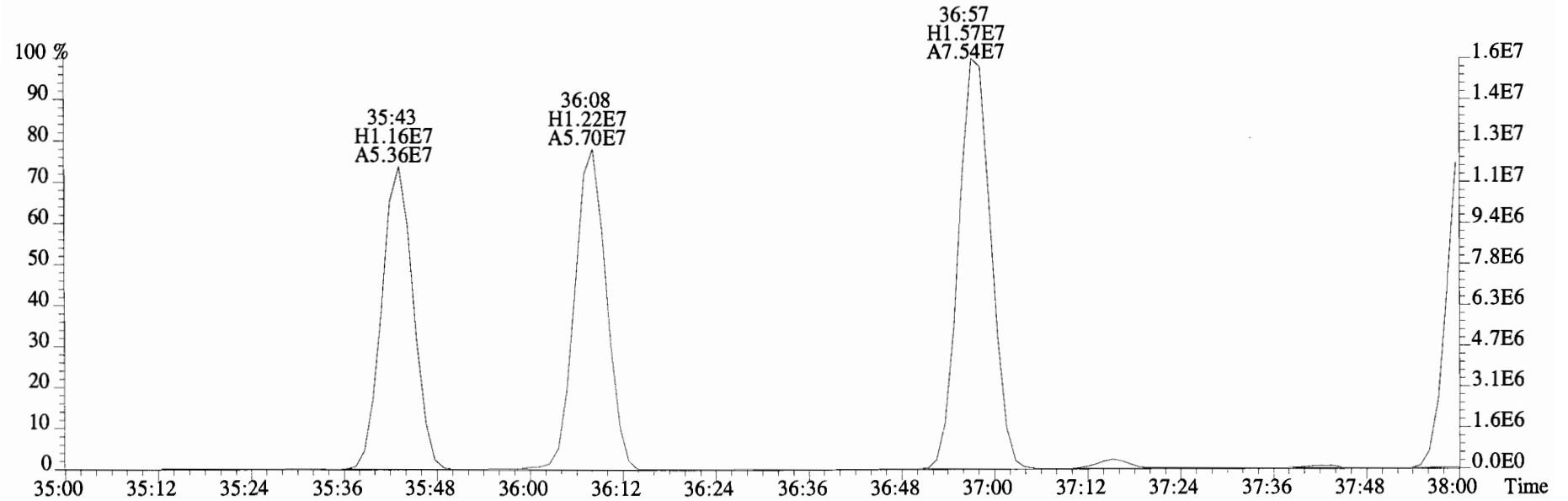
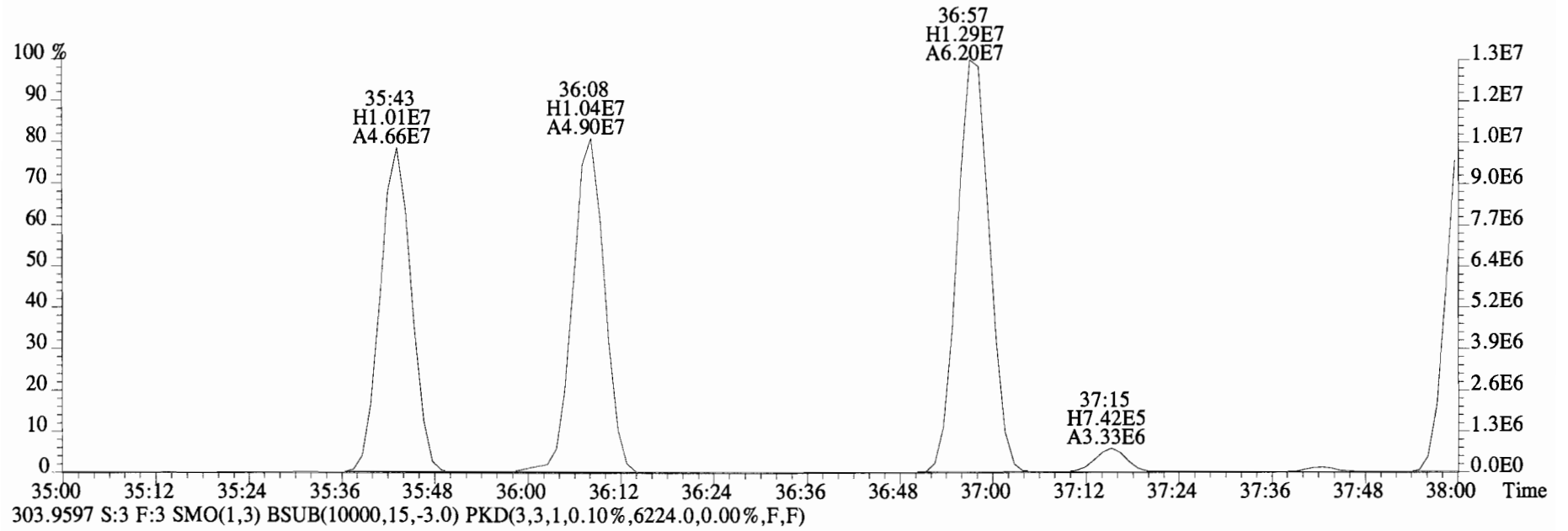
303.9597 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6224.0,0.00%,F,F)



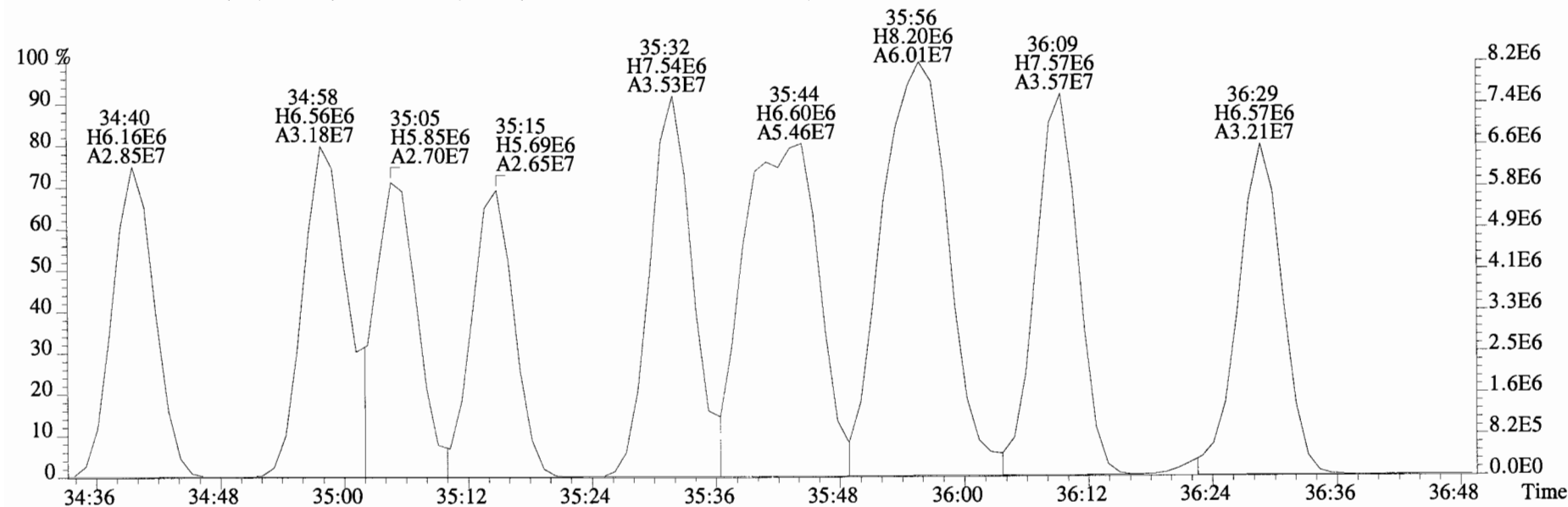
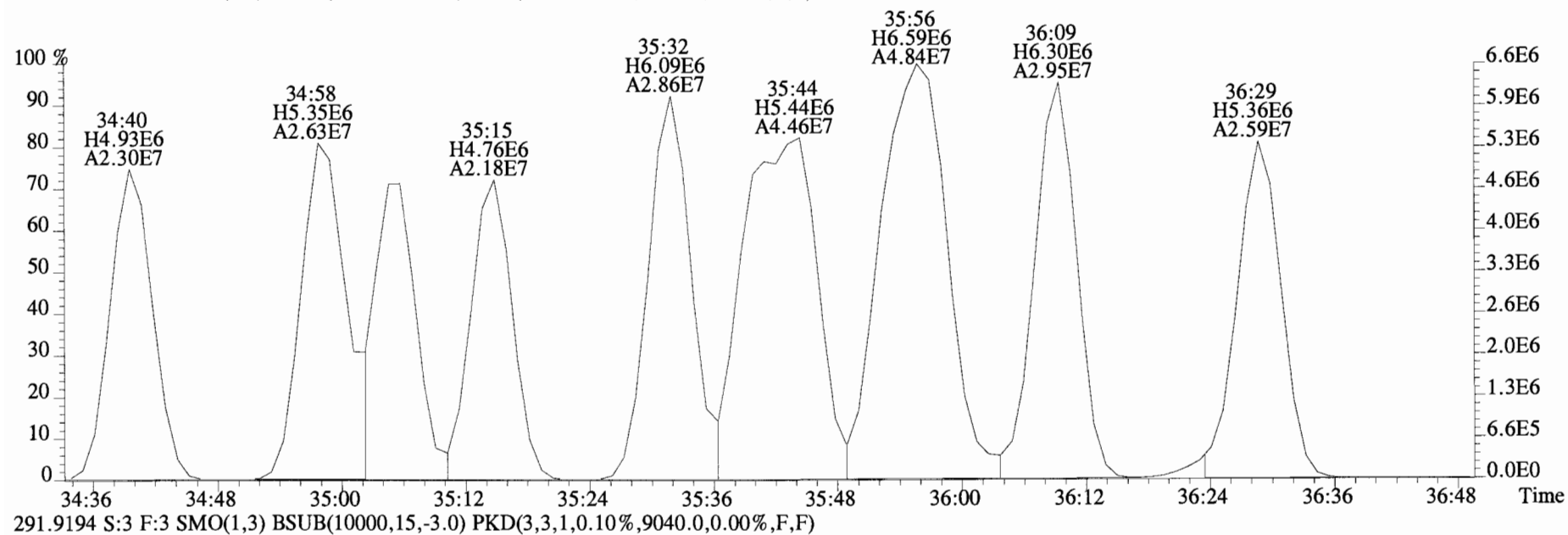
330.9792 S:3 F:3



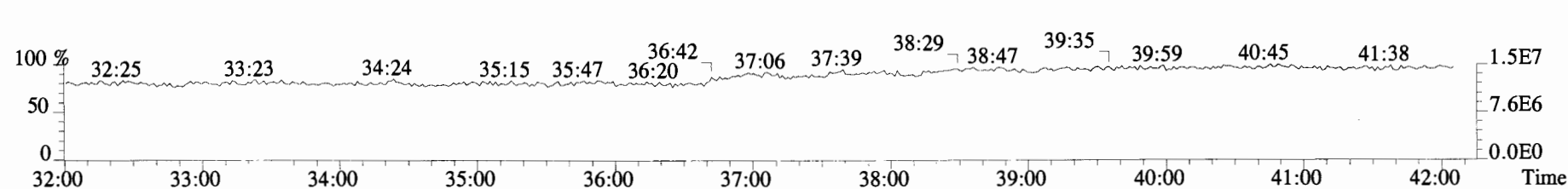
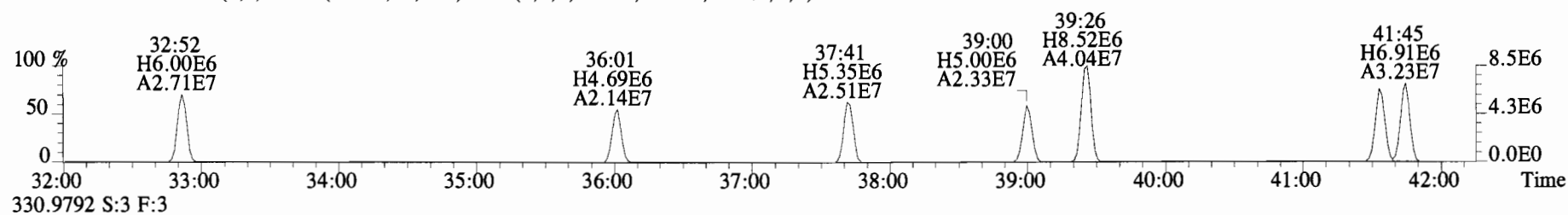
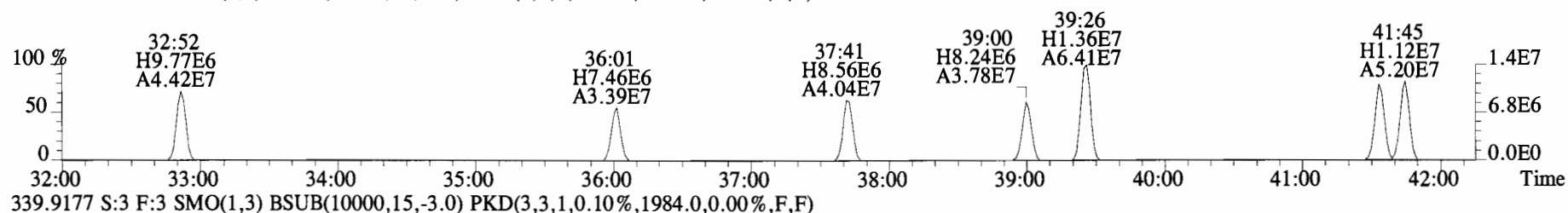
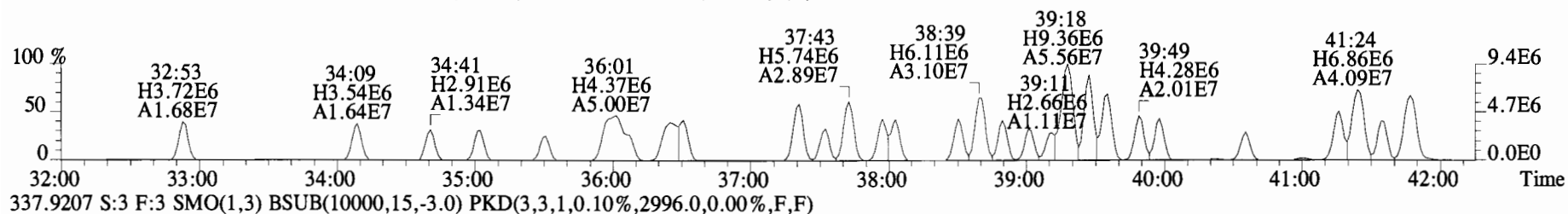
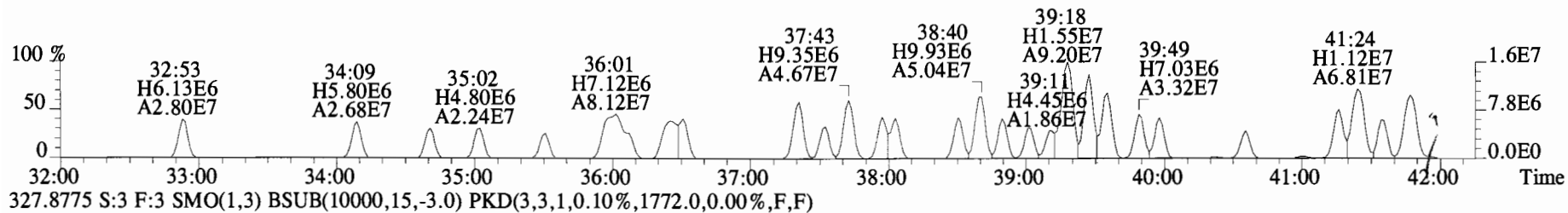
File:140919E2 #1-769 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
301.9626 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8764.0,0.00%,F,F)



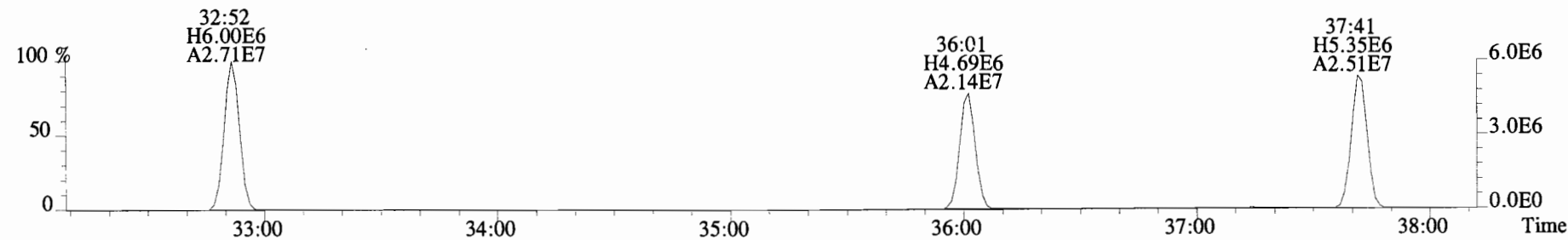
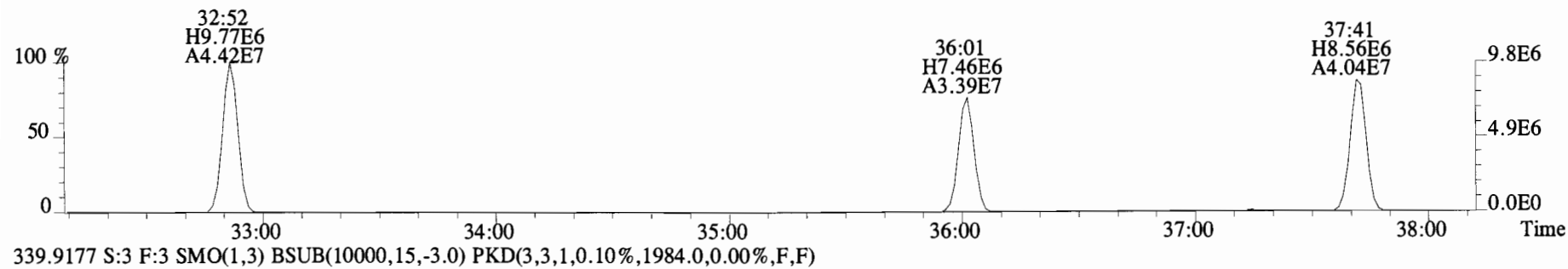
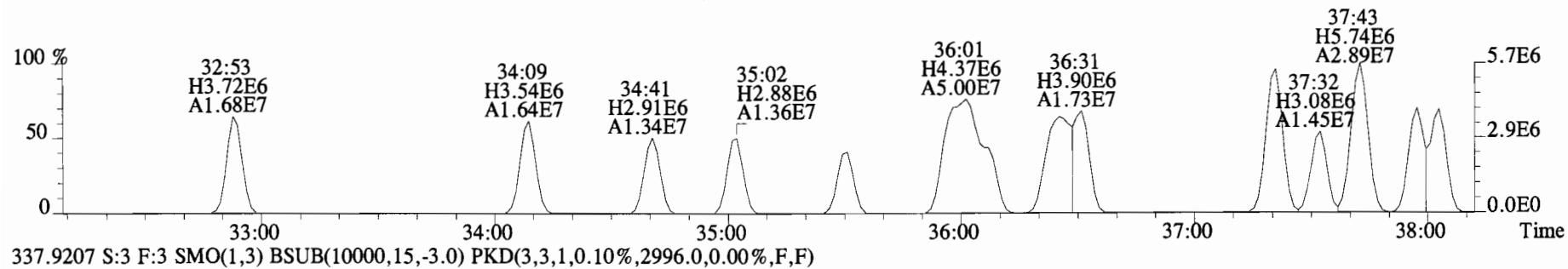
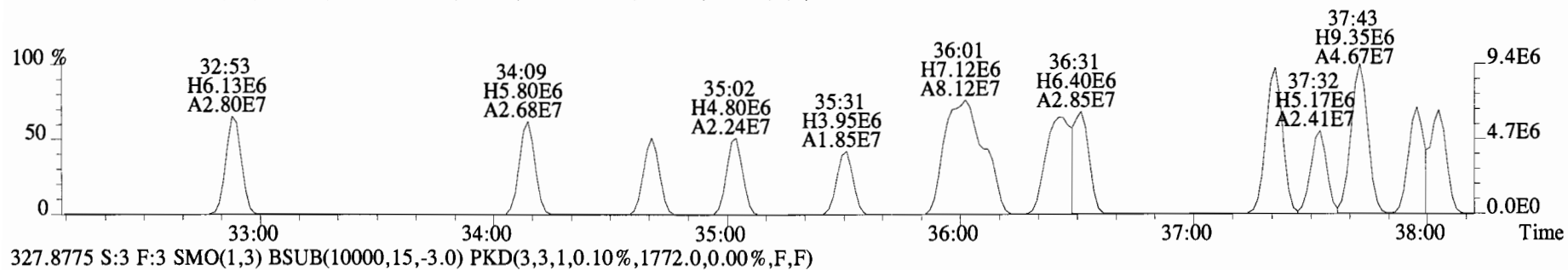
File:140919E2 #1-769 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
 289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8508.0,0.00%,F,F)



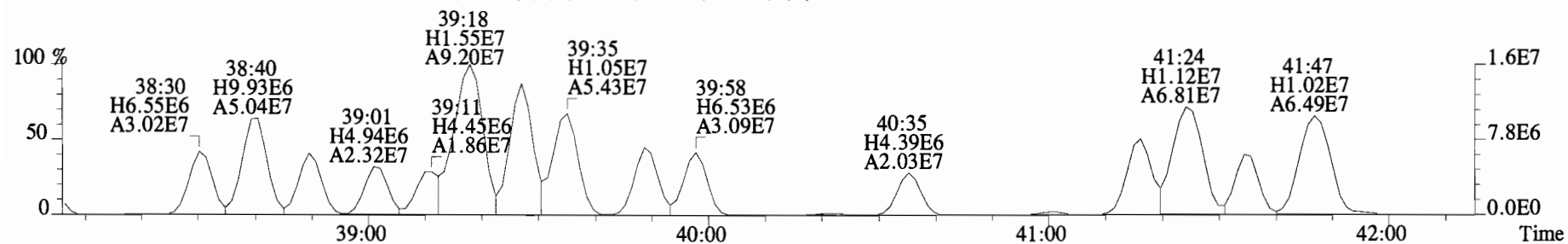
File:140919E2 #1-769 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
 325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1704.0,0.00%,F,F)



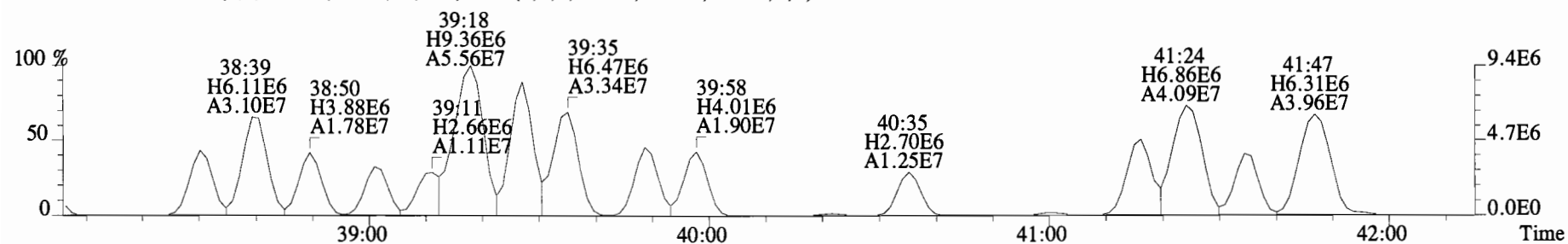
File:140919E2 #1-769 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
 325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1704.0,0.00%,F,F)



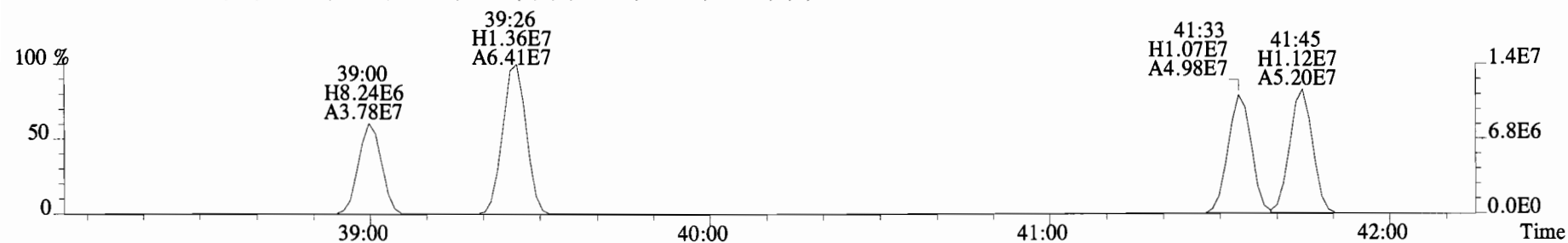
File:140919E2 #1-769 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1704.0,0.00%,F,F)



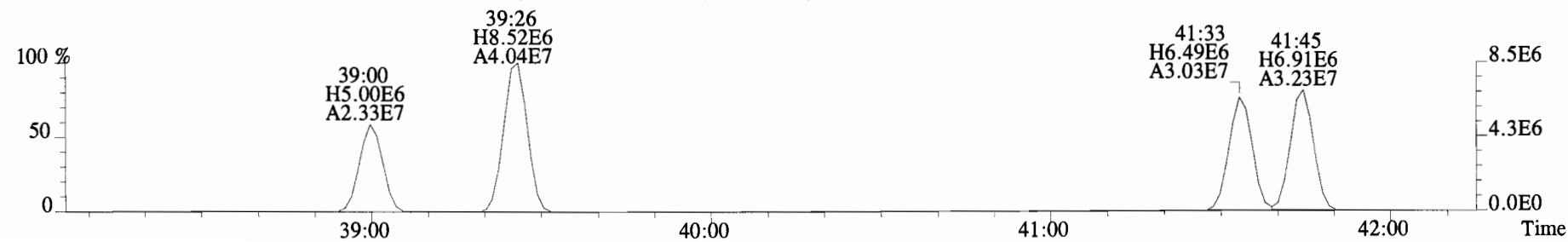
327.8775 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1772.0,0.00%,F,F)



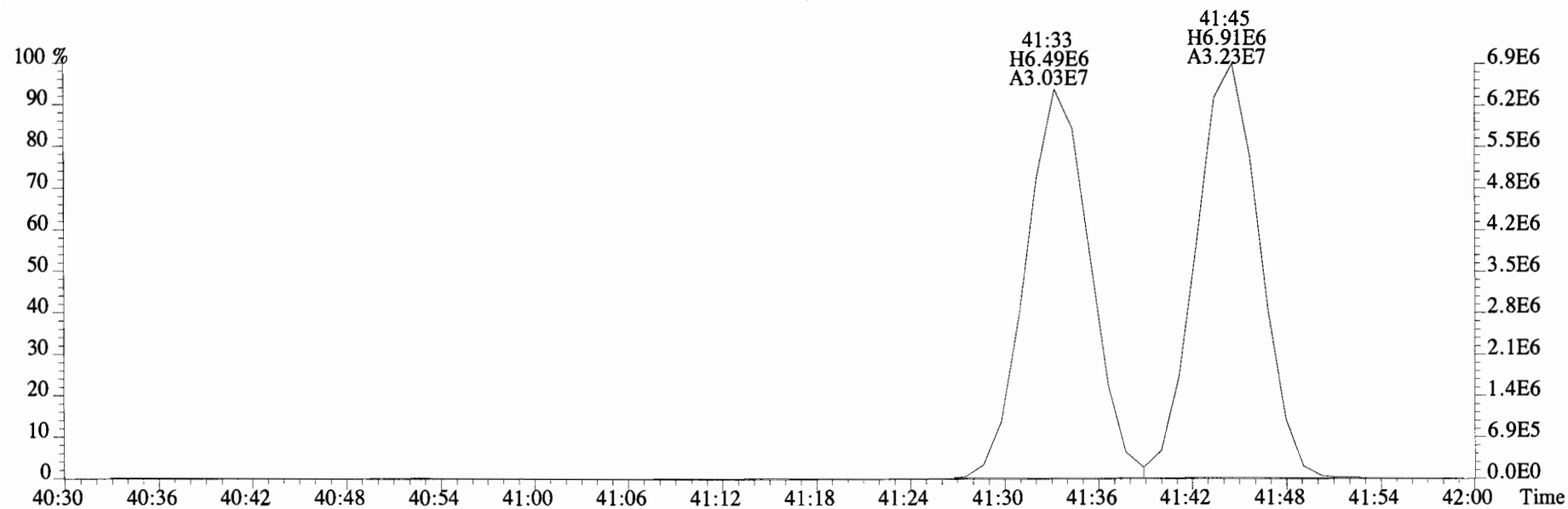
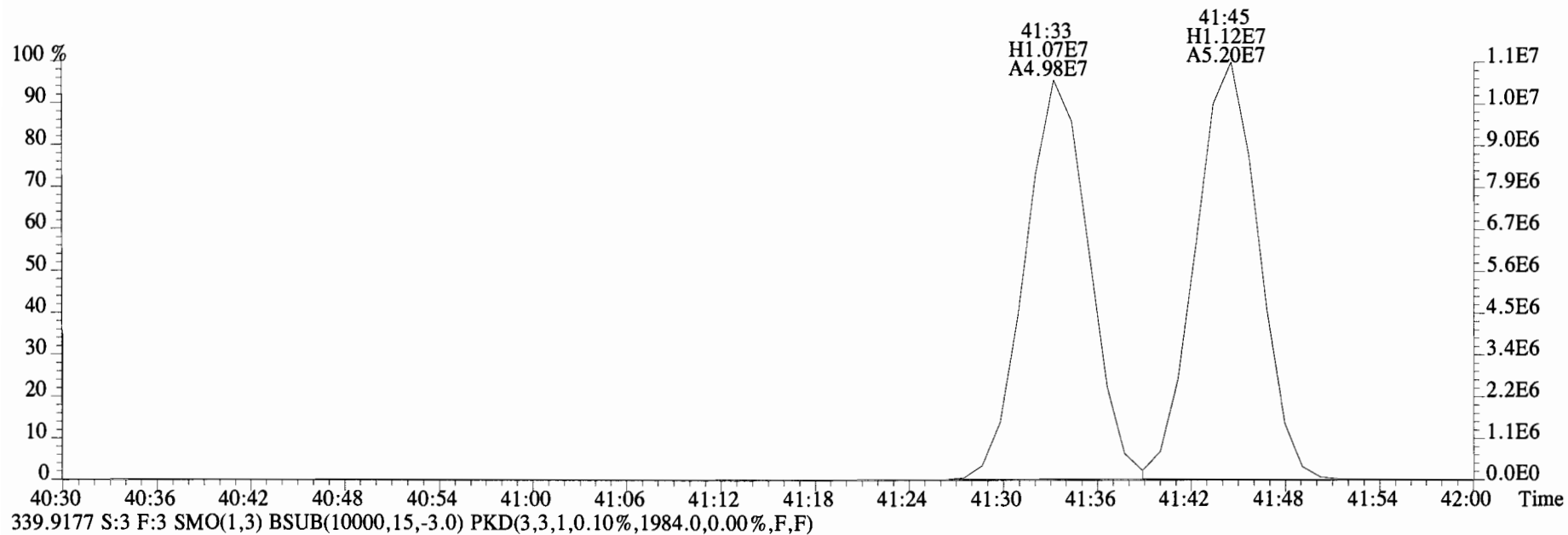
337.9207 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2996.0,0.00%,F,F)



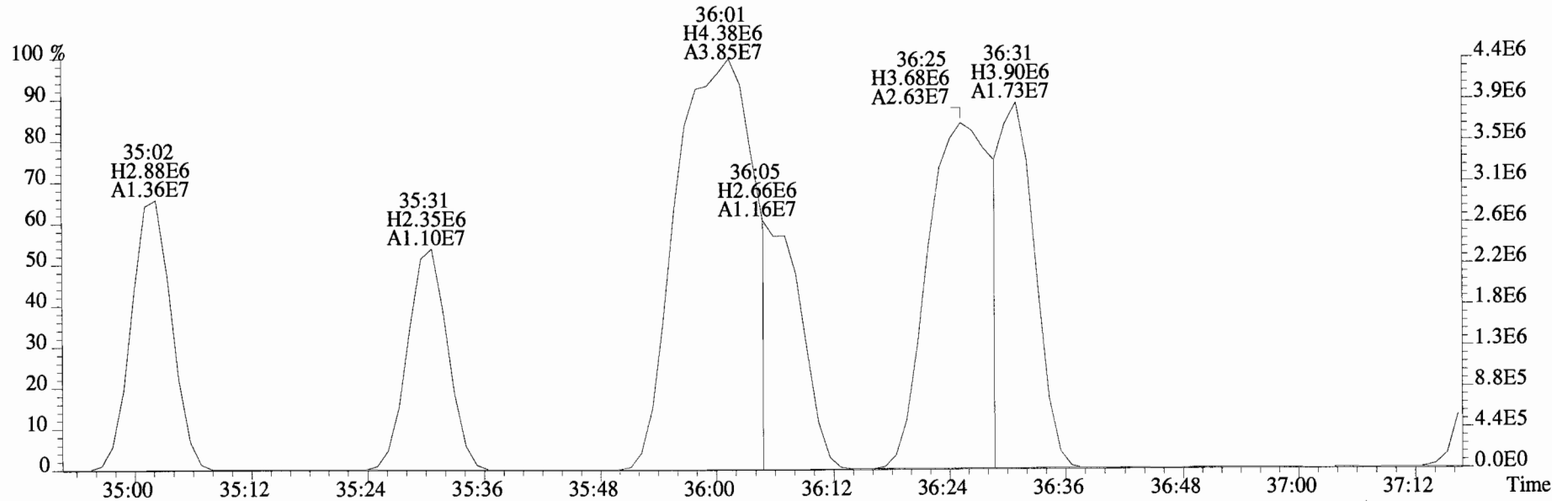
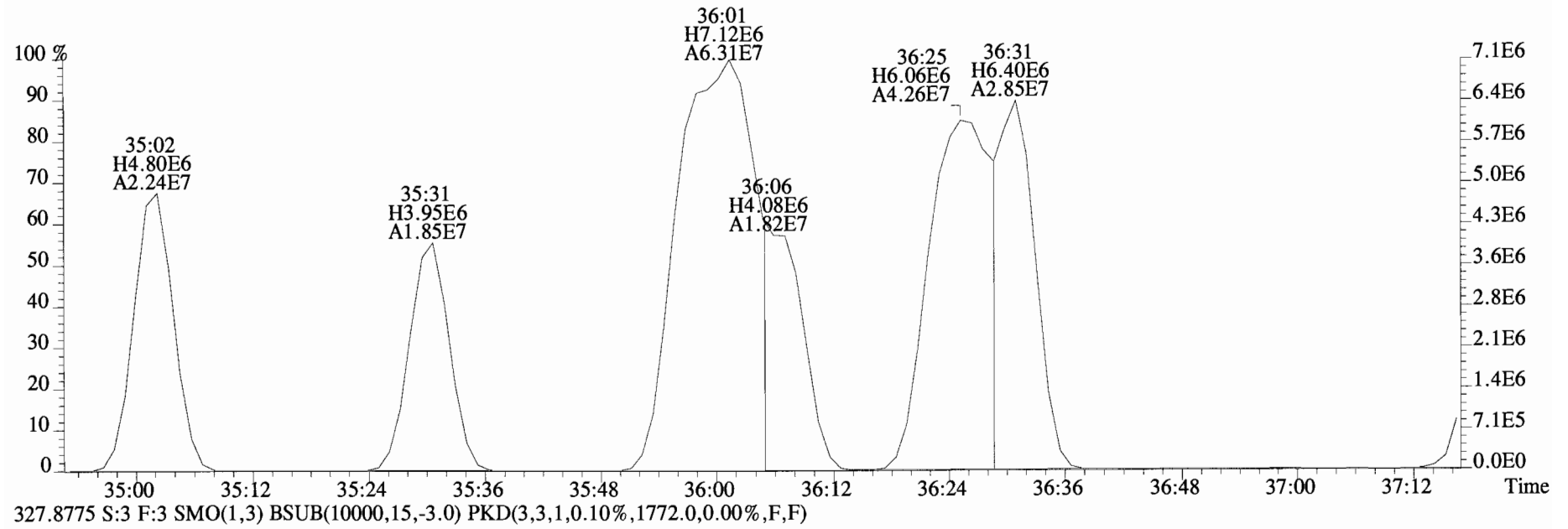
339.9177 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1984.0,0.00%,F,F)



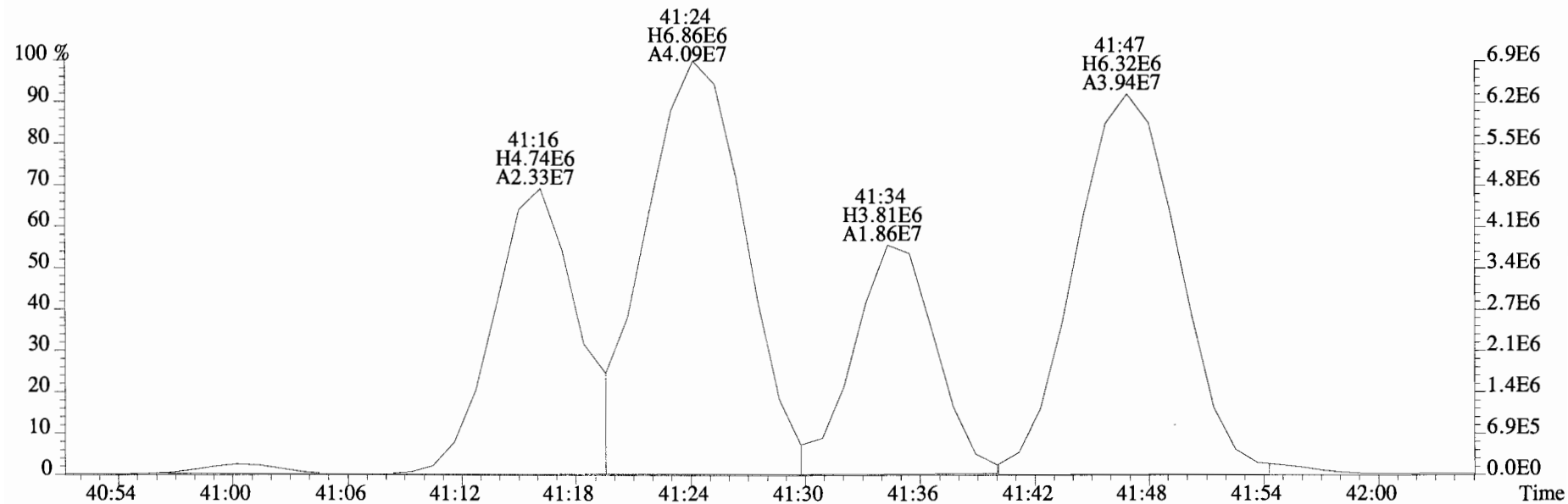
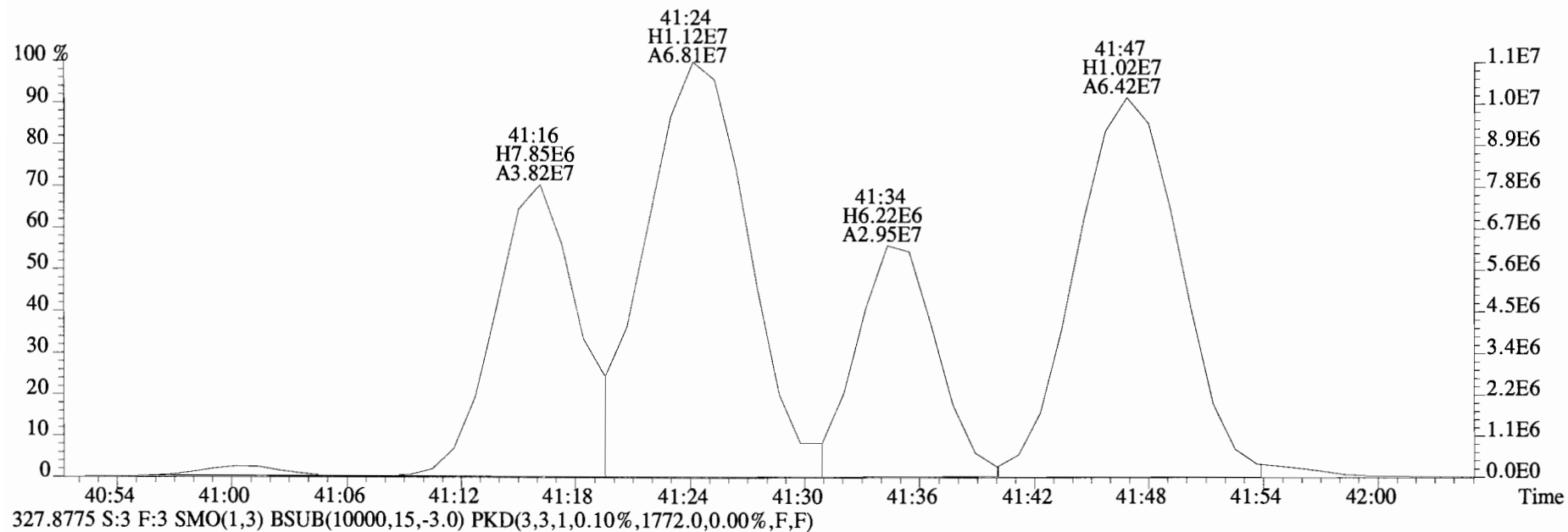
File:140919E2 #1-769 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
337.9207 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2996.0,0.00%,F,F)



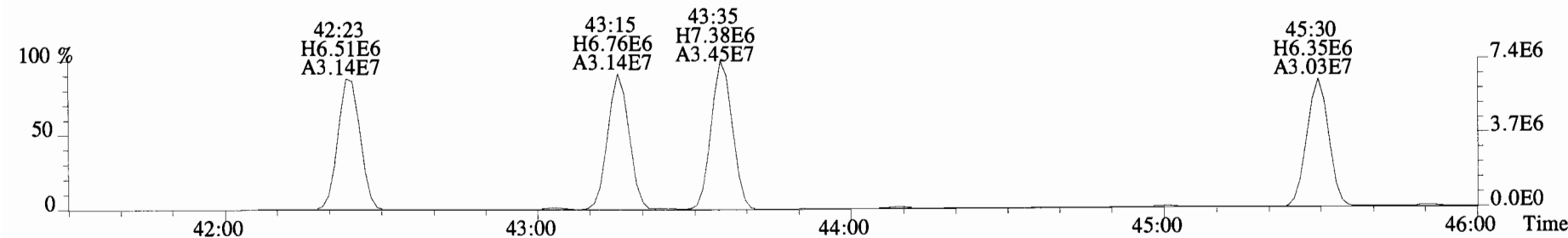
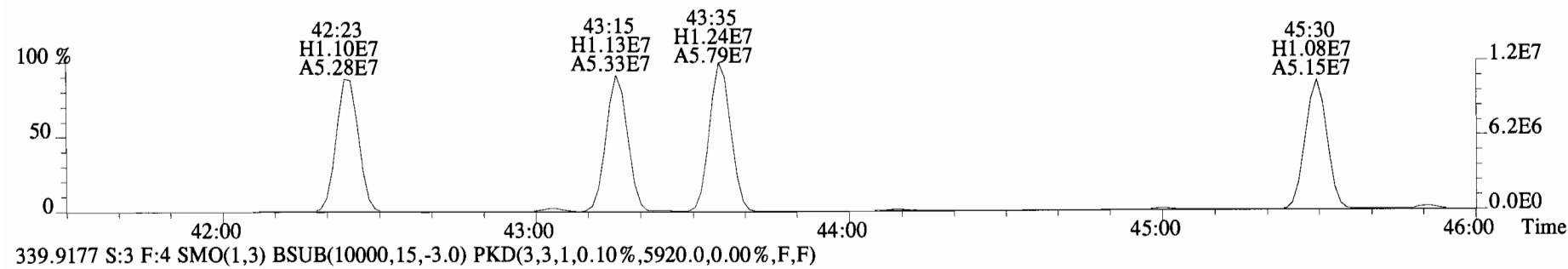
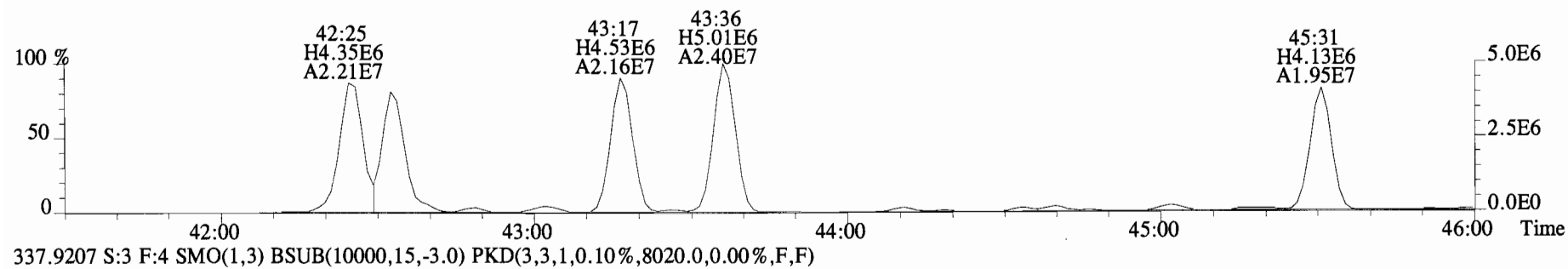
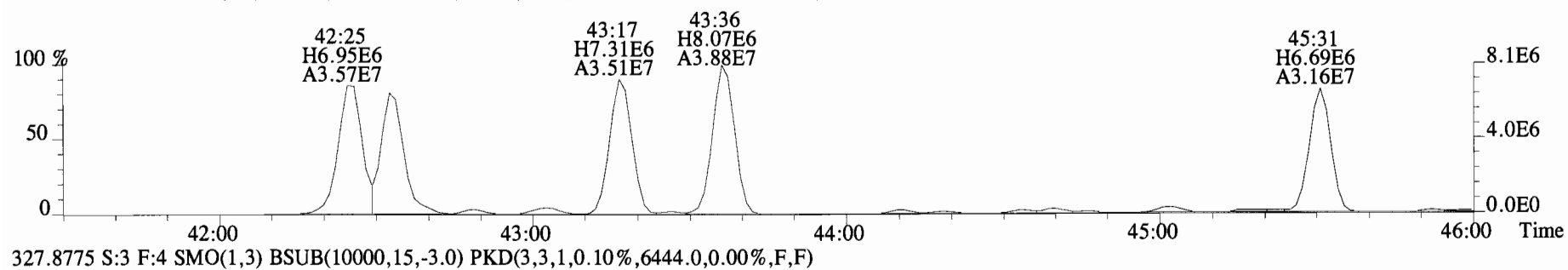
File:140919E2 #1-769 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1704.0,0.00%,F,F)



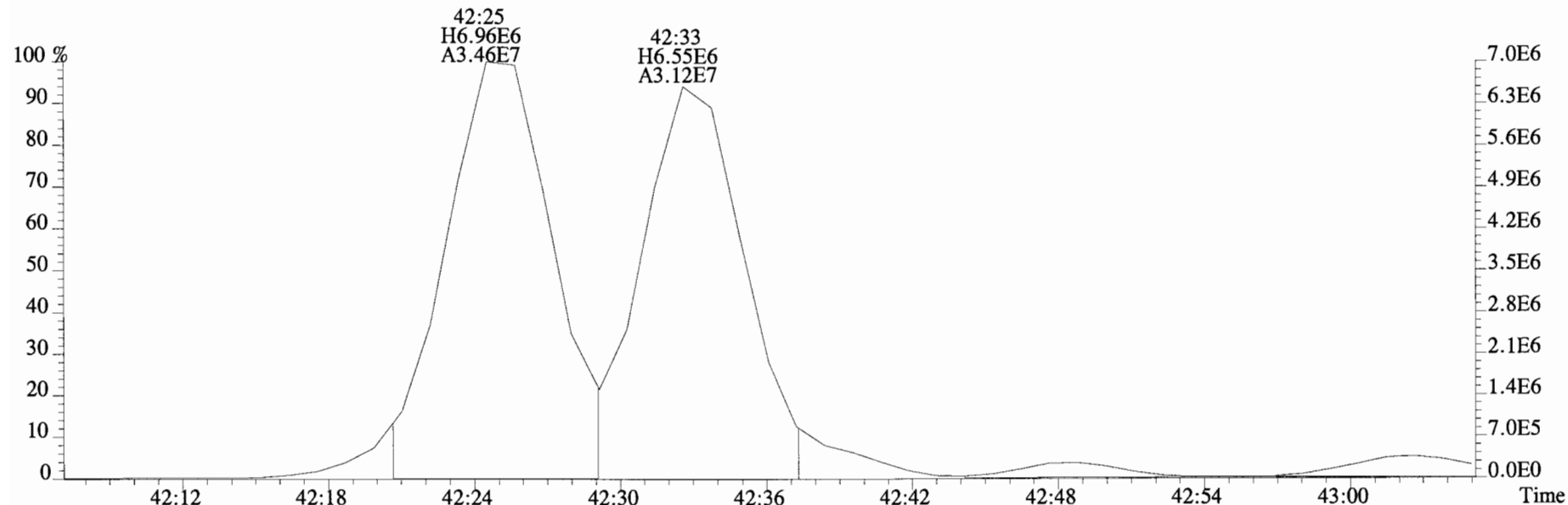
File:140919E2 #1-769 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1704.0,0.00%,F,F)



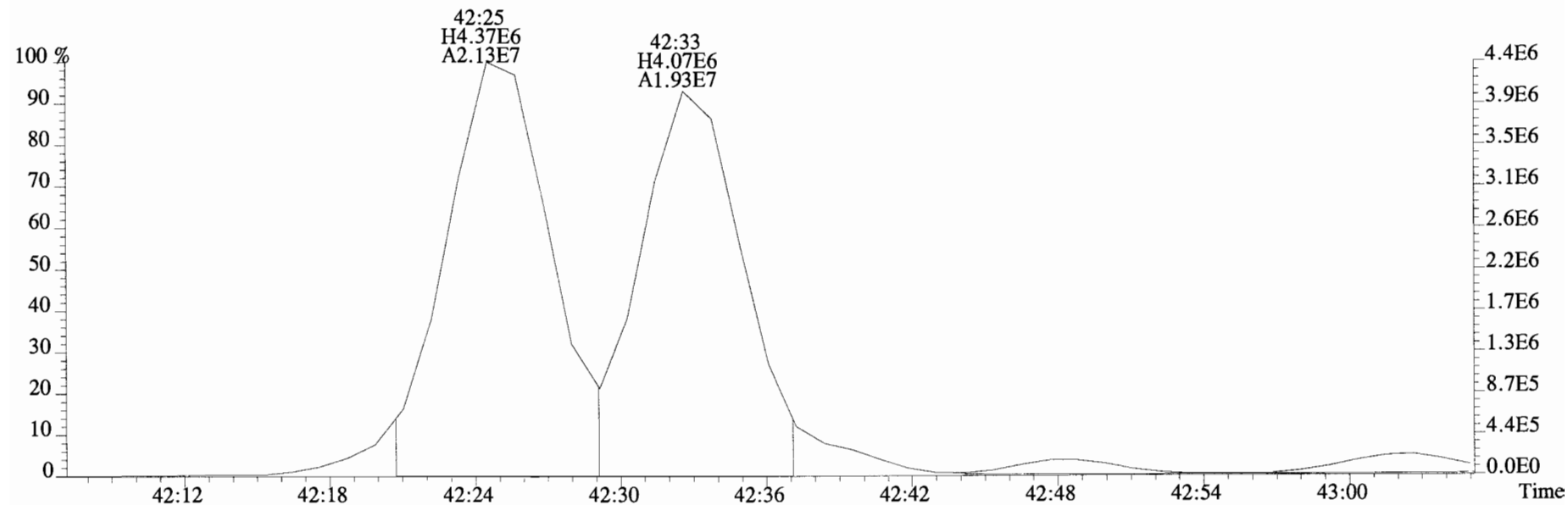
File:140919E2 #1-544 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14912.0,0.00%,F,F)



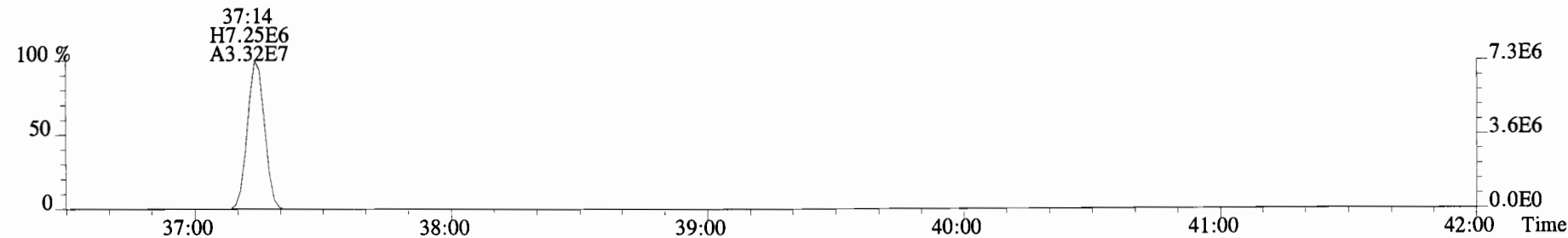
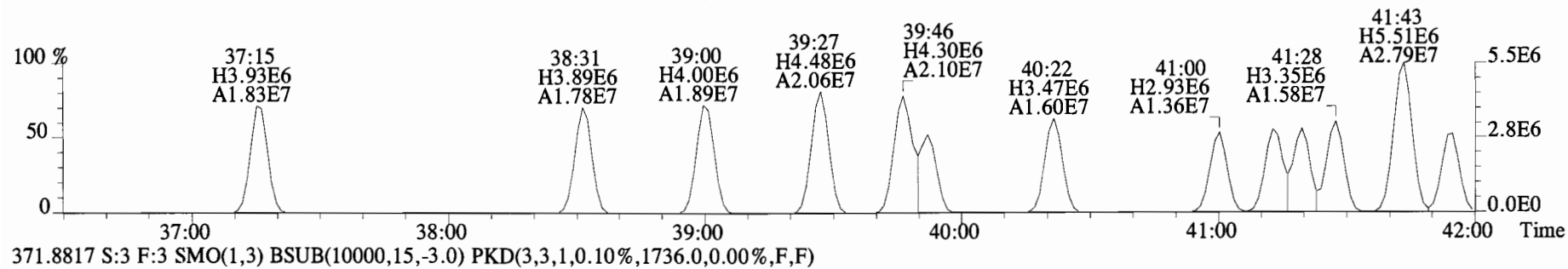
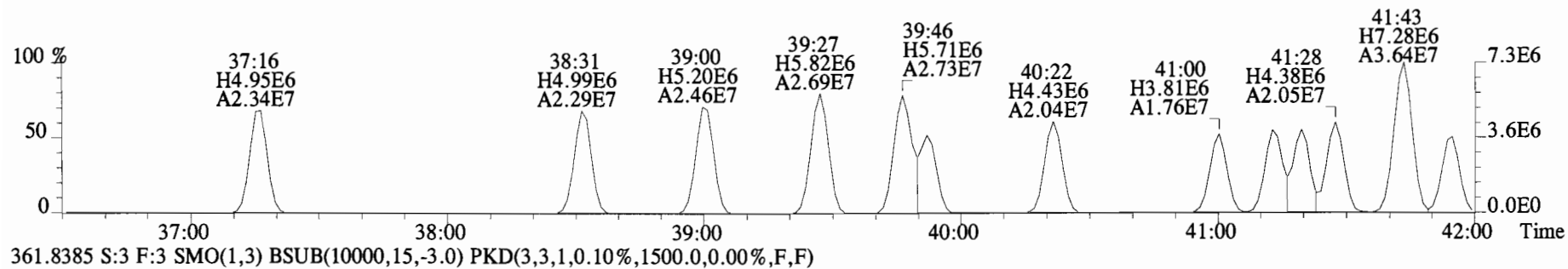
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14912.0,0.00%,F,F)



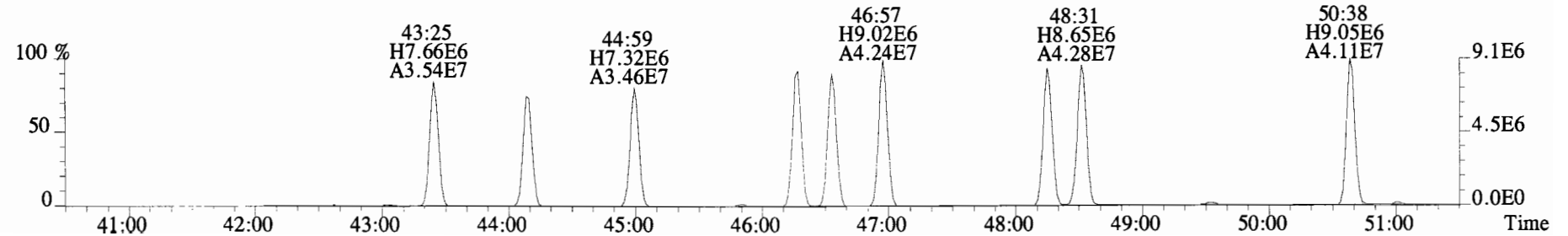
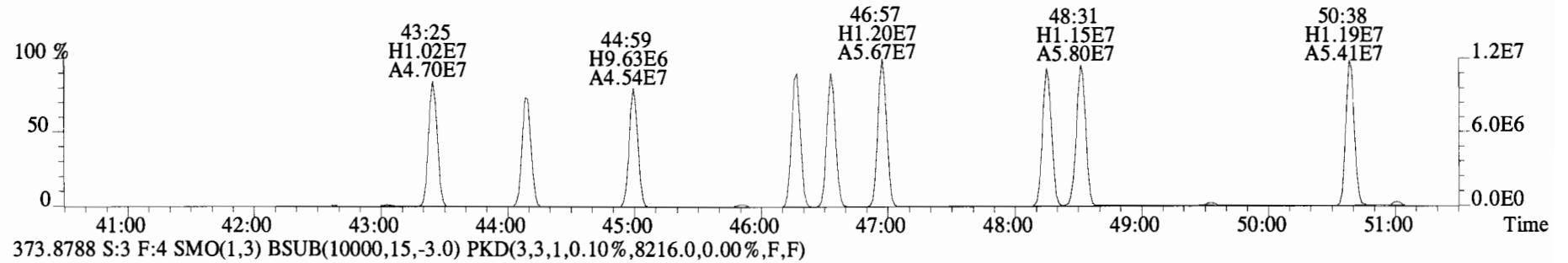
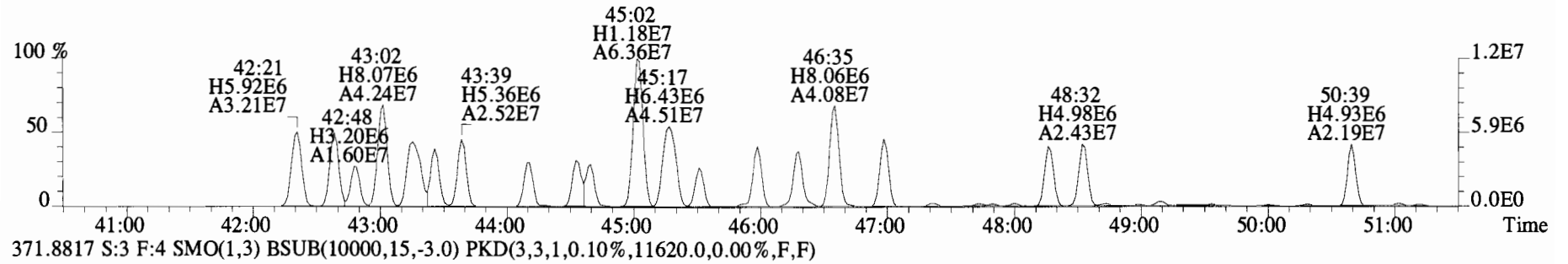
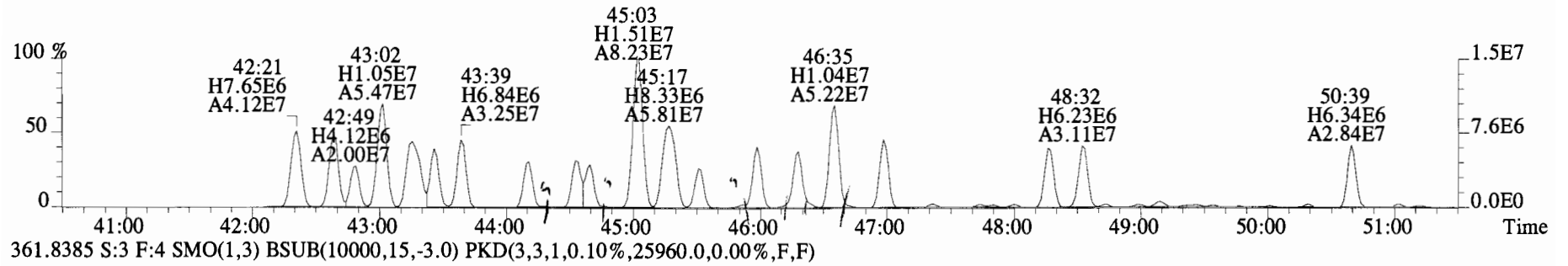
327.8775 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6444.0,0.00%,F,F)



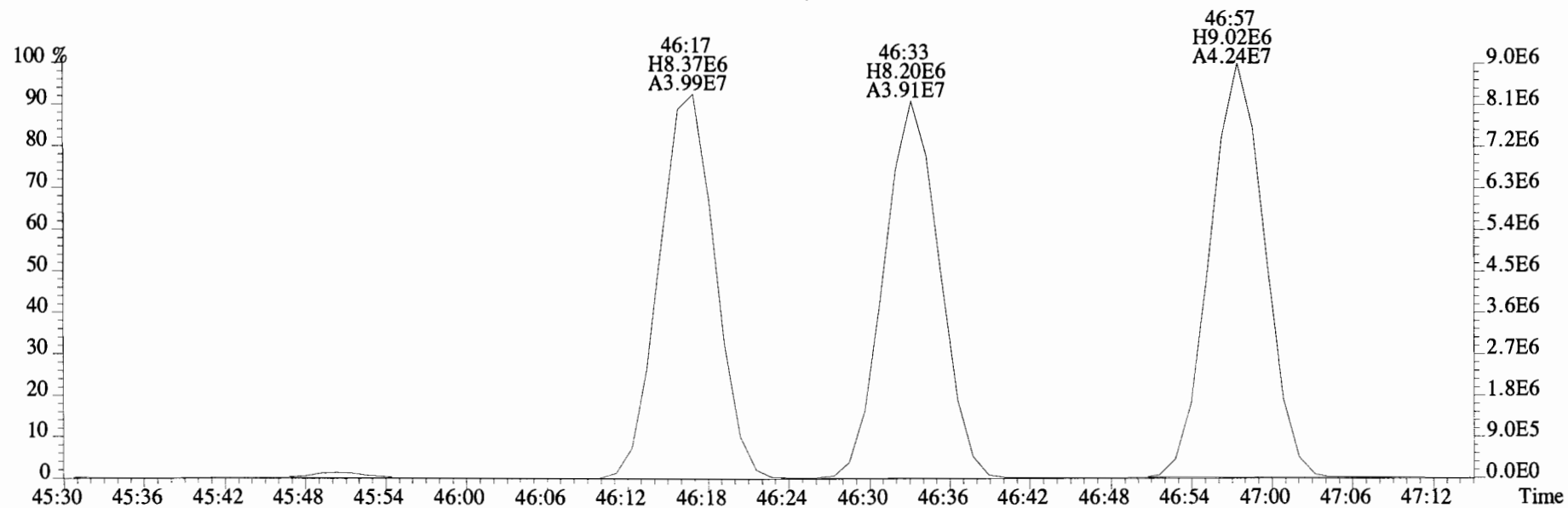
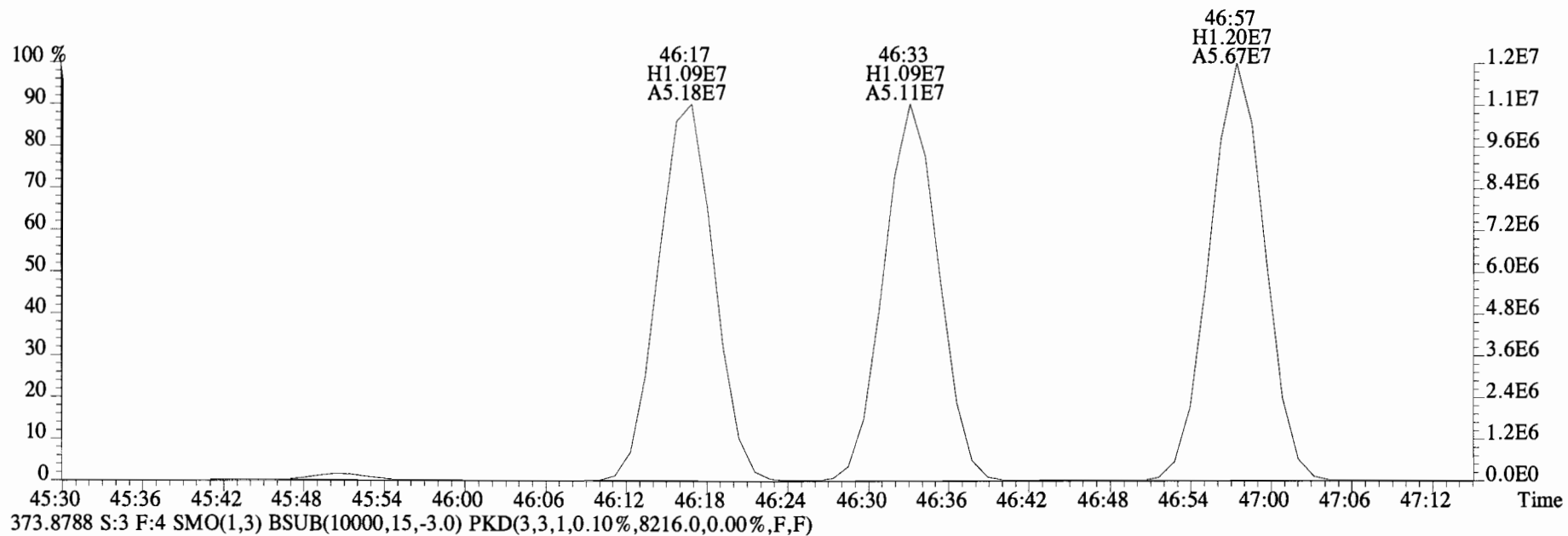
File:140919E2 #1-769 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1552.0,0.00%,F,F)



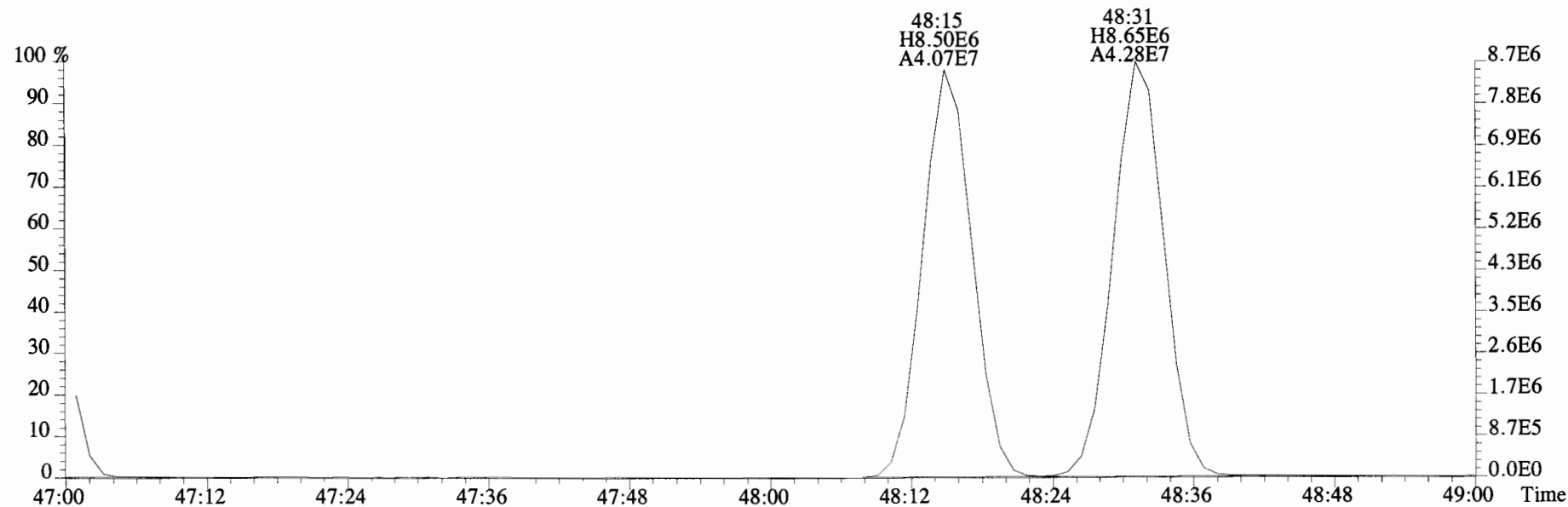
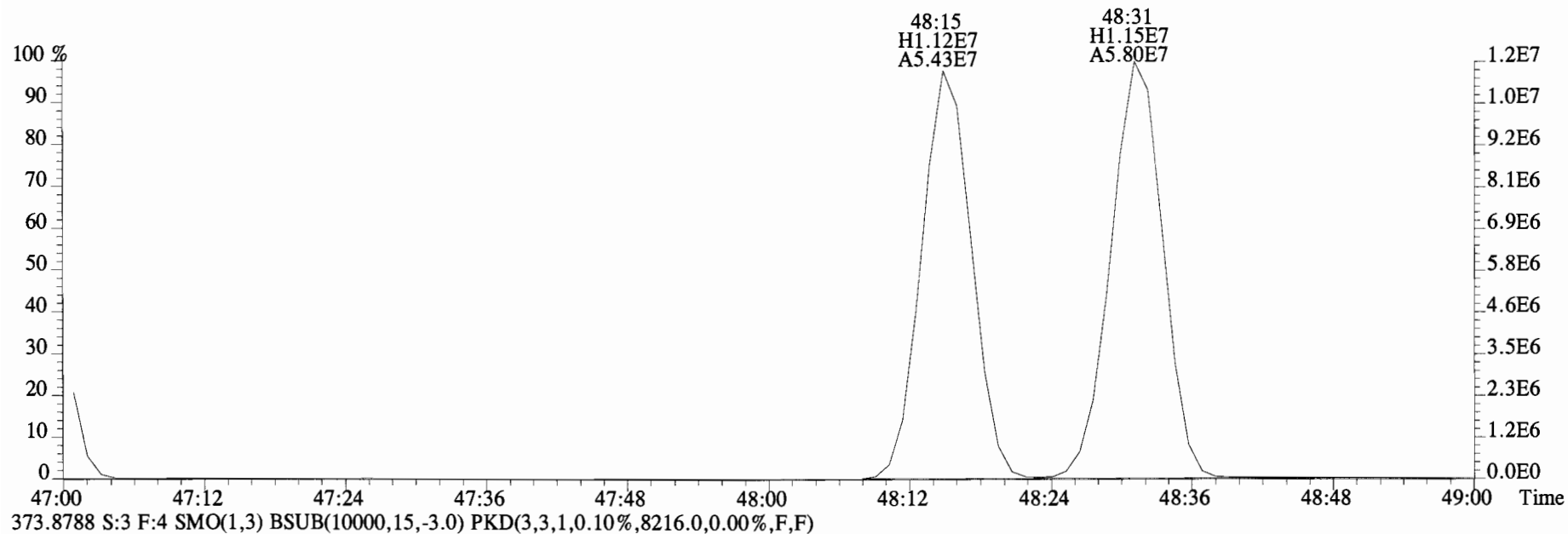
File:140919E2 #1-544 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45176.0,0.00%,F,F)



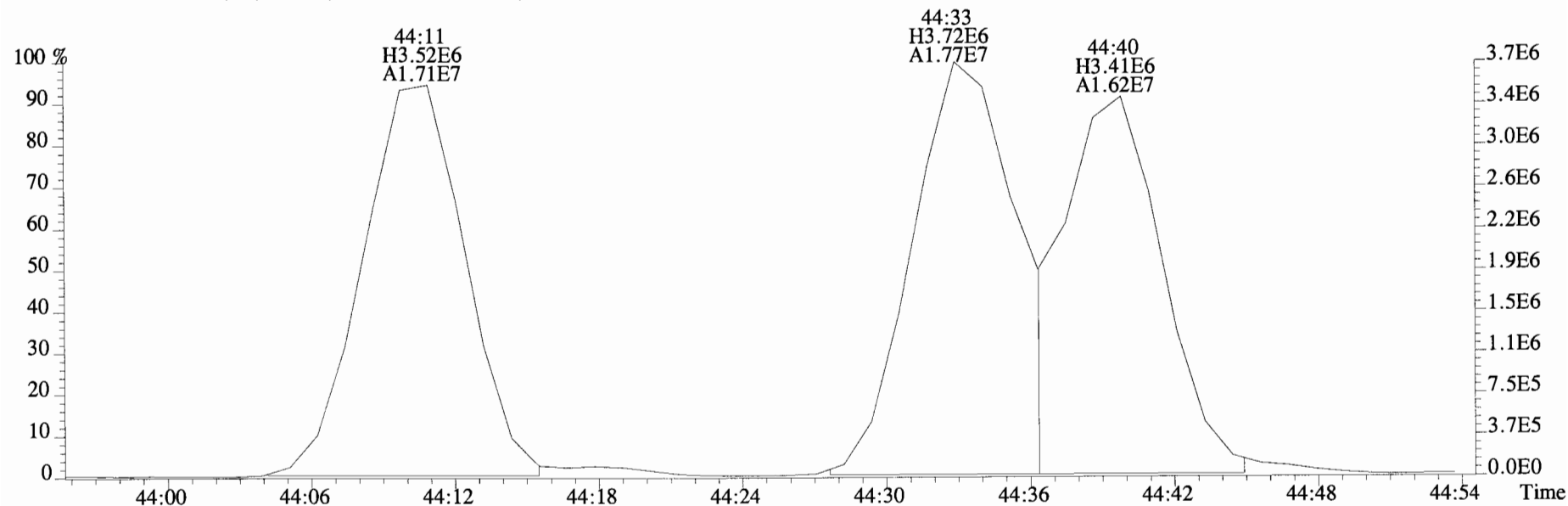
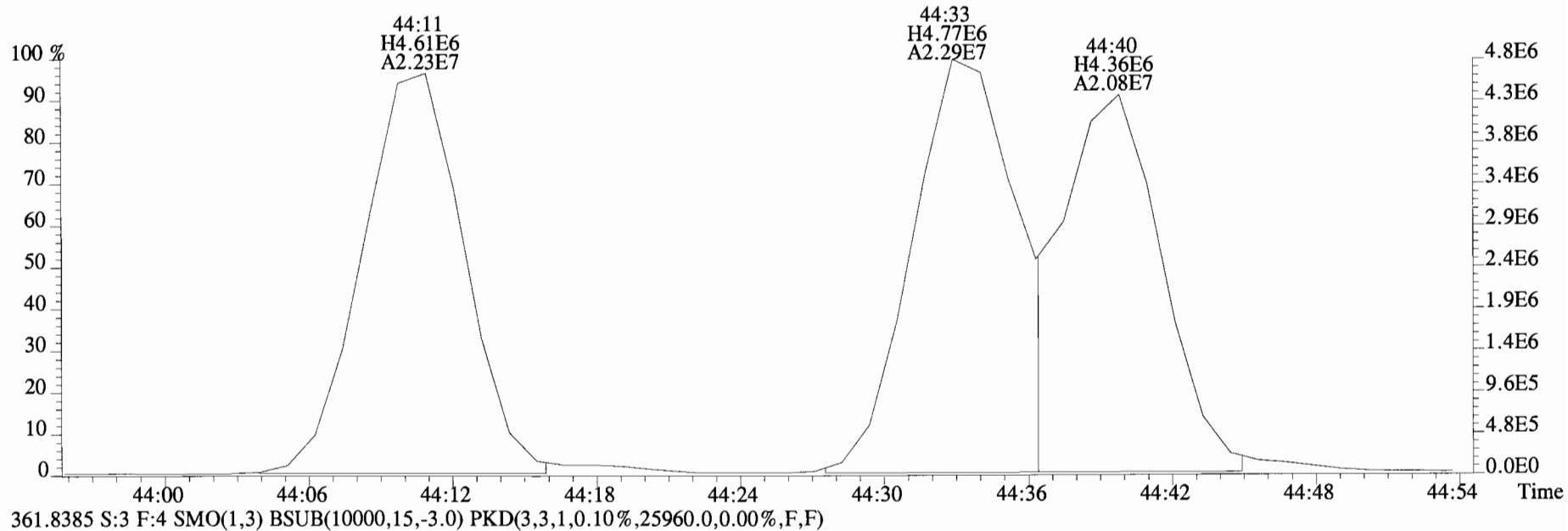
File:140919E2 #1-544 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
371.8817 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11620.0,0.00%,F,F)



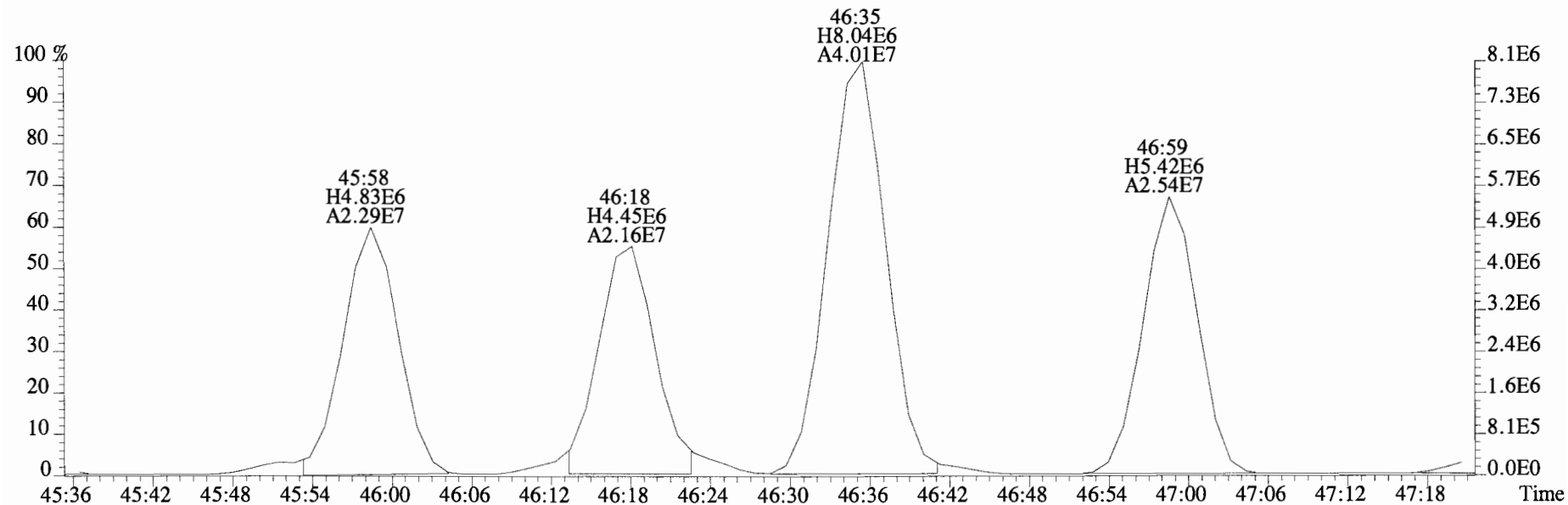
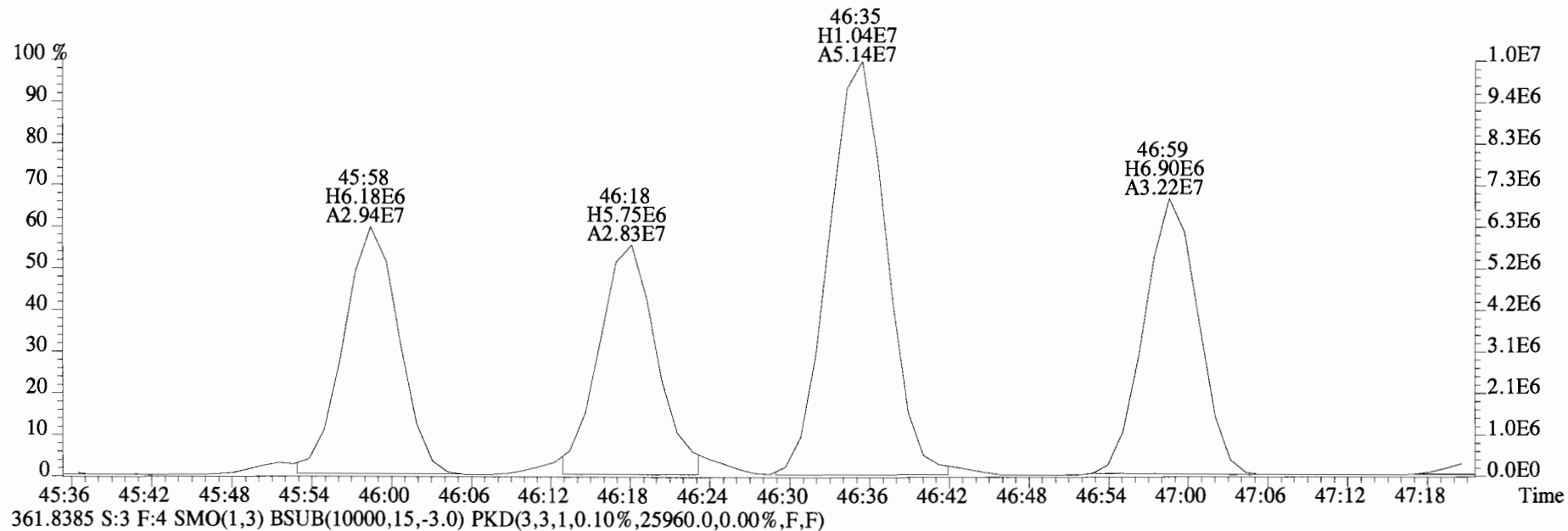
File:140919E2 #1-544 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
371.8817 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11620.0,0.00%,F,F)



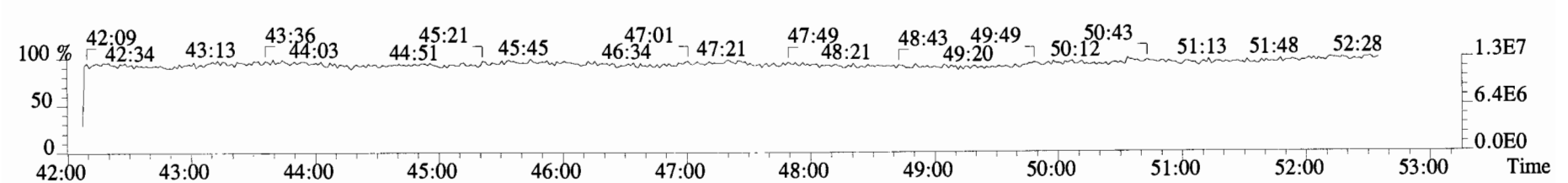
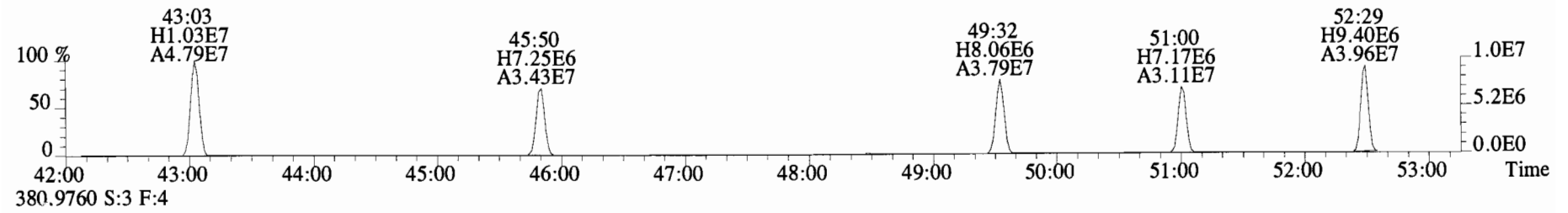
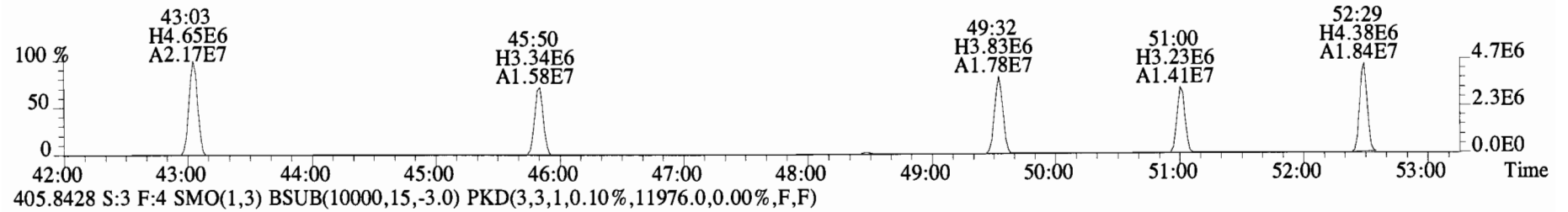
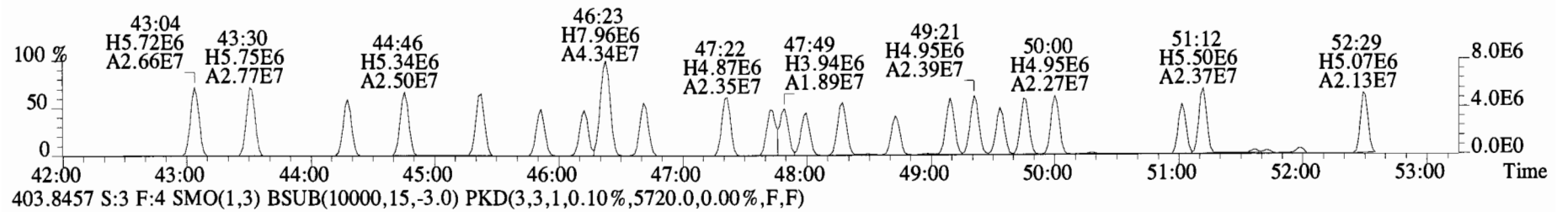
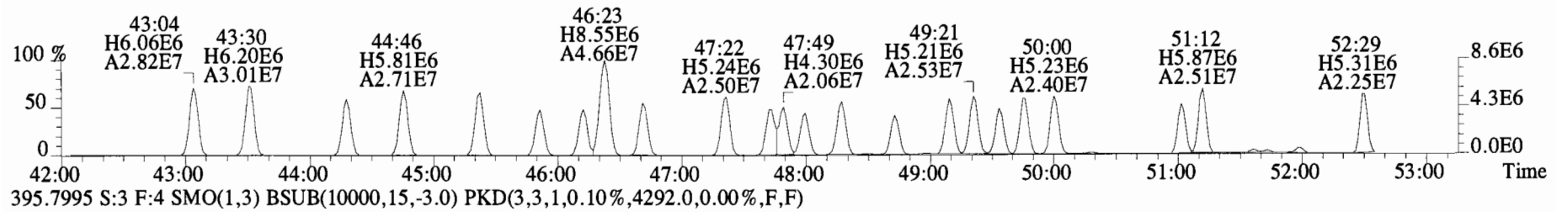
File:140919E2 #1-544 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45176.0,0.00%,F,F)



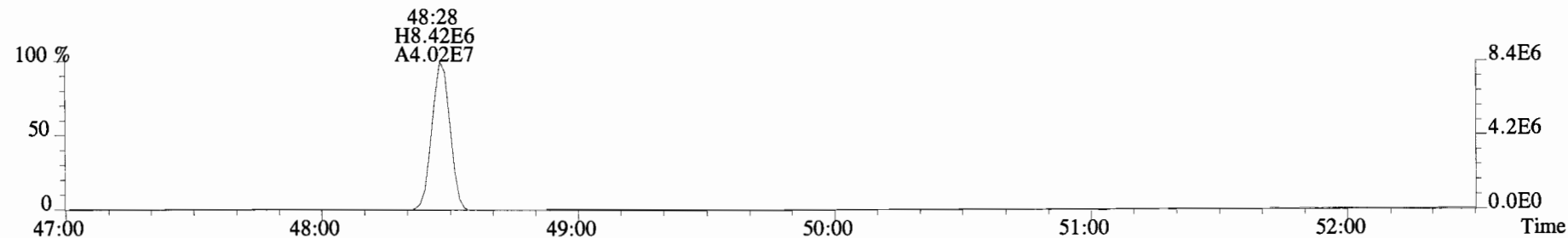
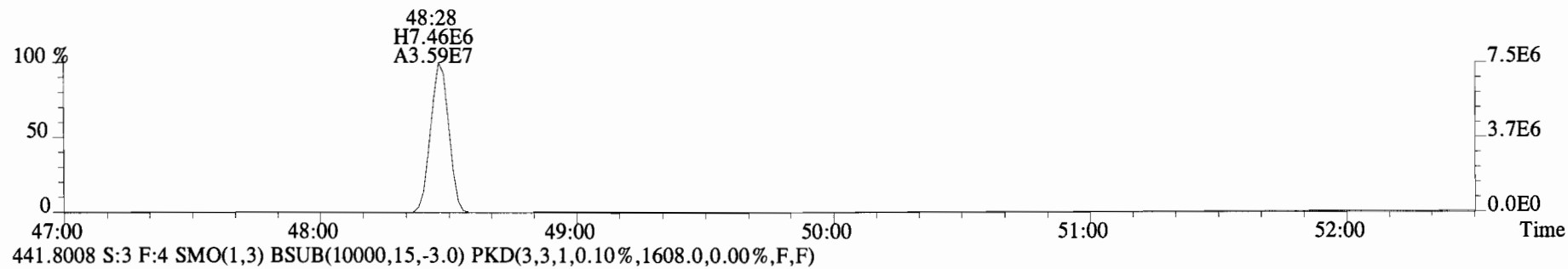
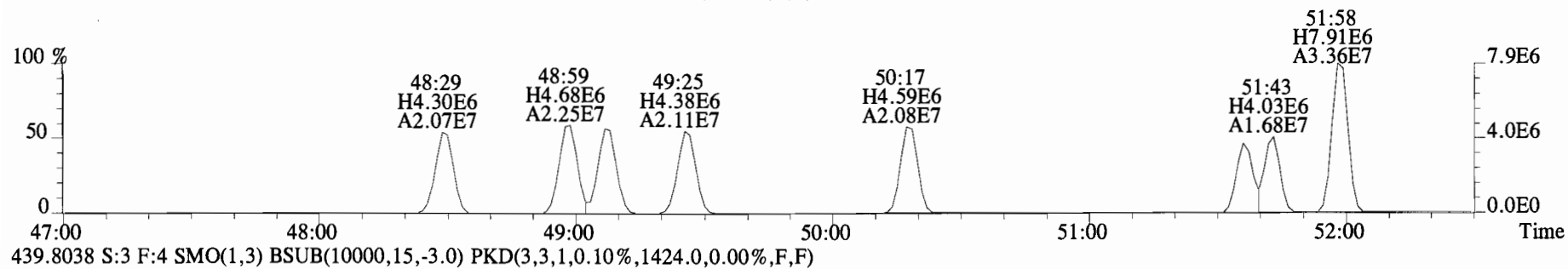
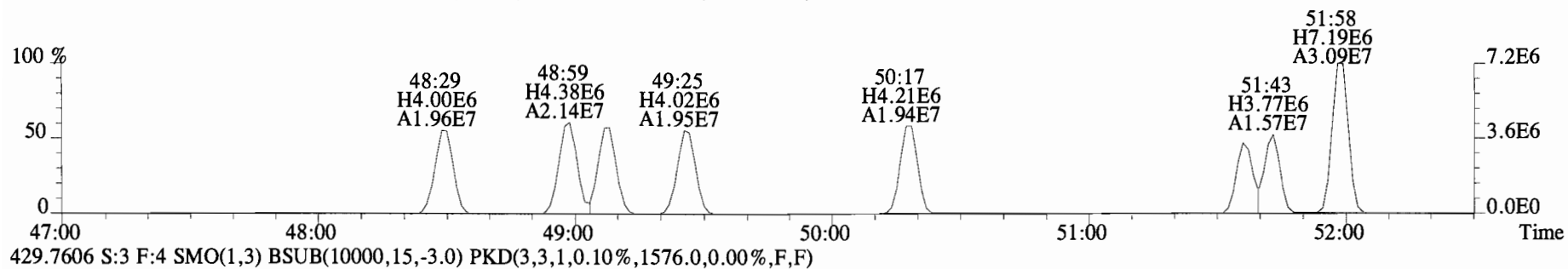
File:140919E2 #1-544 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45176.0,0.00%,F,F)



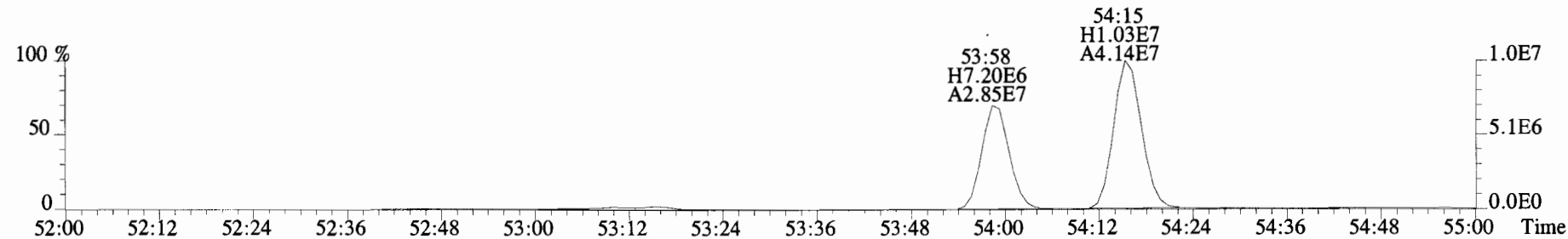
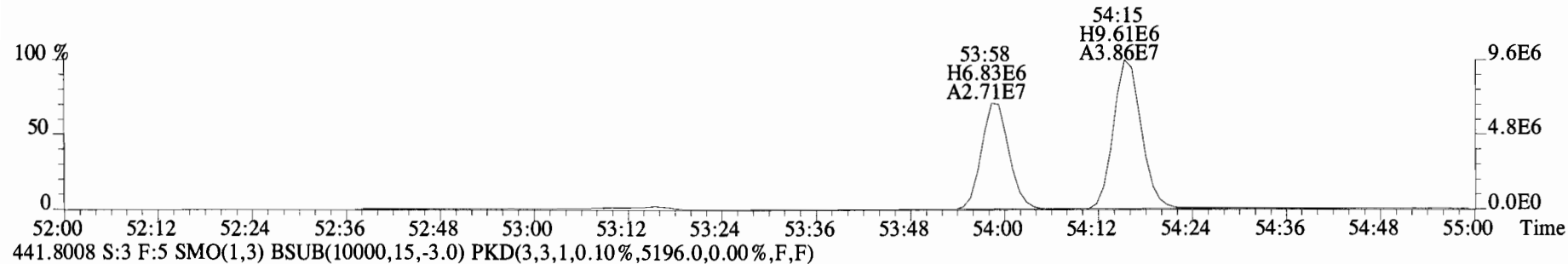
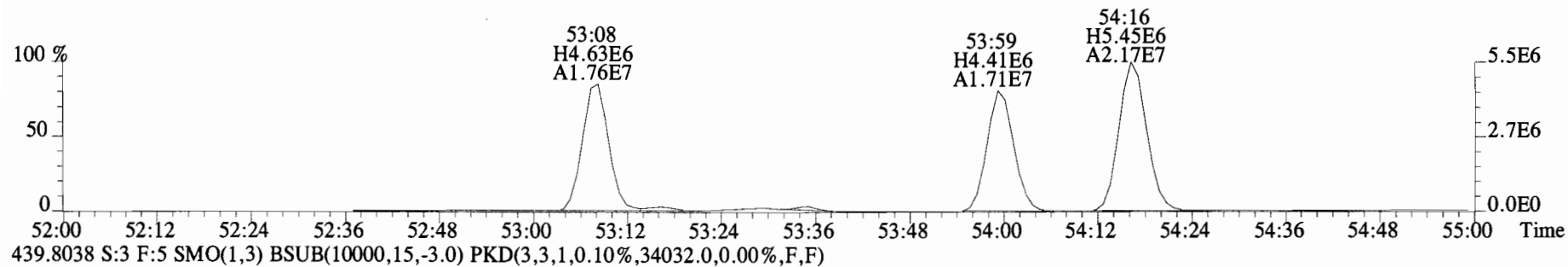
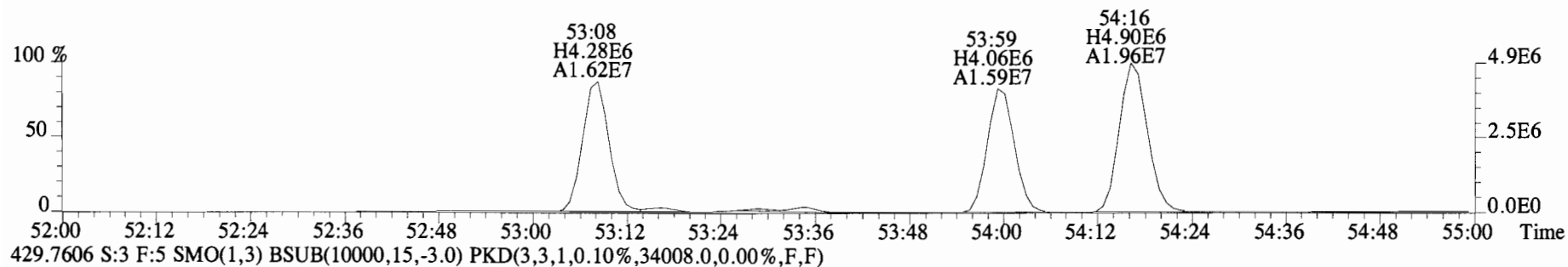
File:140919E2 #1-544 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
 393.8025 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25676.0,0.00%,F,F)



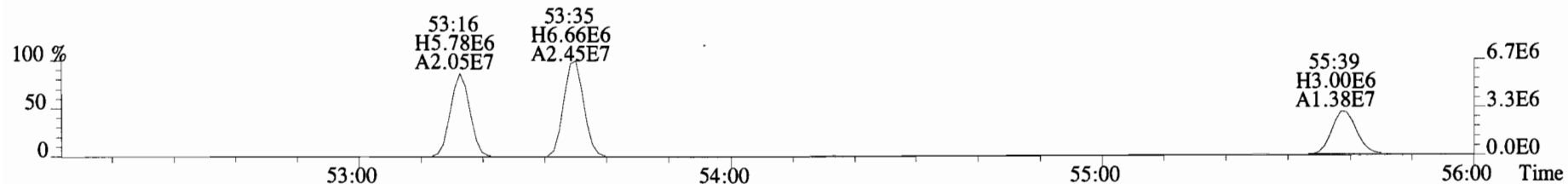
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
427.7635 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1344.0,0.00%,F,F)



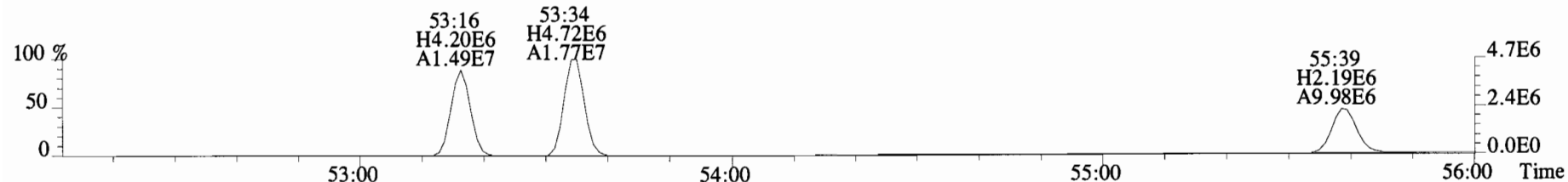
File:140919E2 #1-430 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
427.7635 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,31528.0,0.00%,F,F)



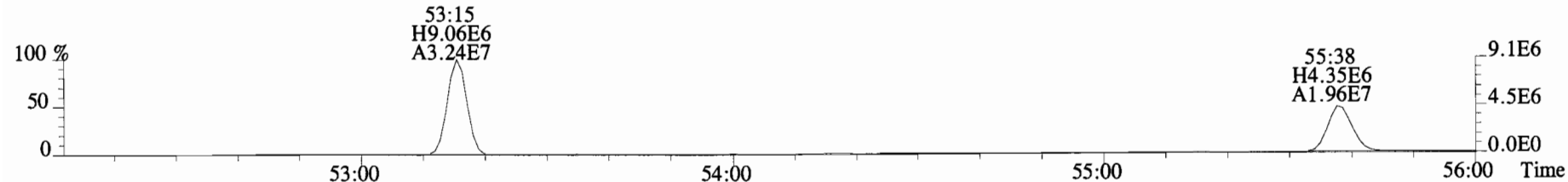
File:140919E2 #1-430 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
463.7216 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1760.0,0.00%,F,F)



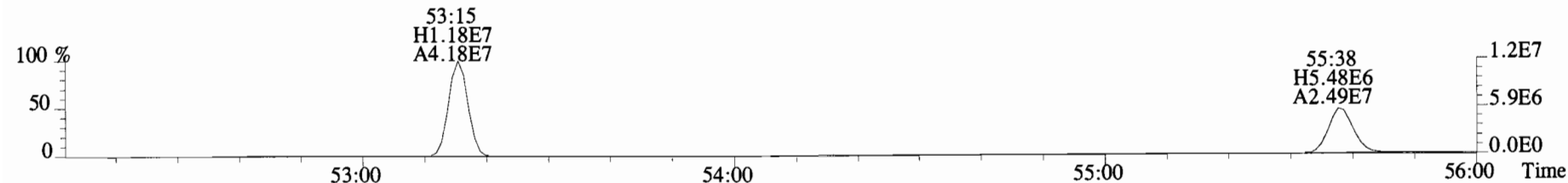
465.7186 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1624.0,0.00%,F,F)



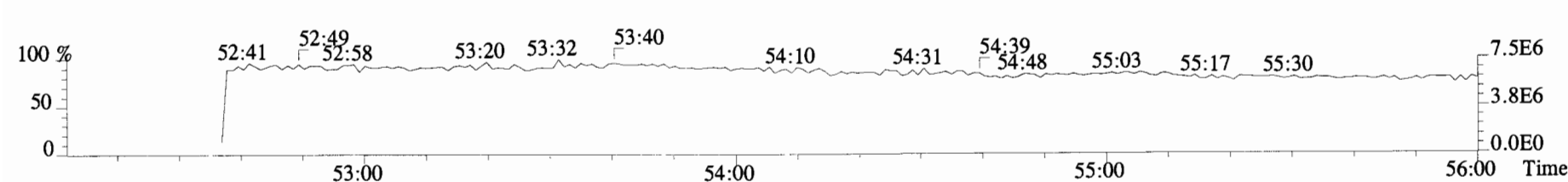
473.7648 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21460.0,0.00%,F,F)



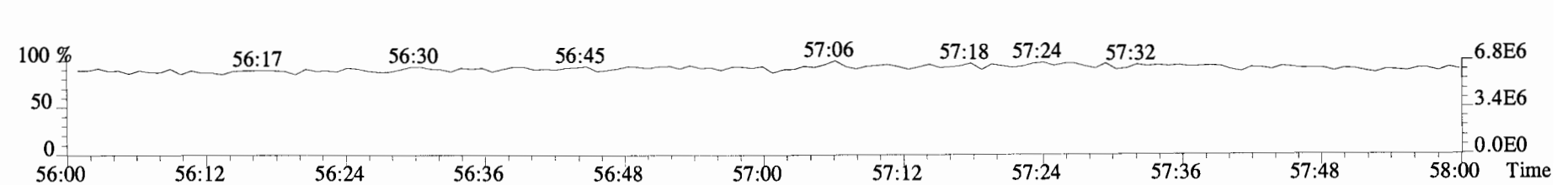
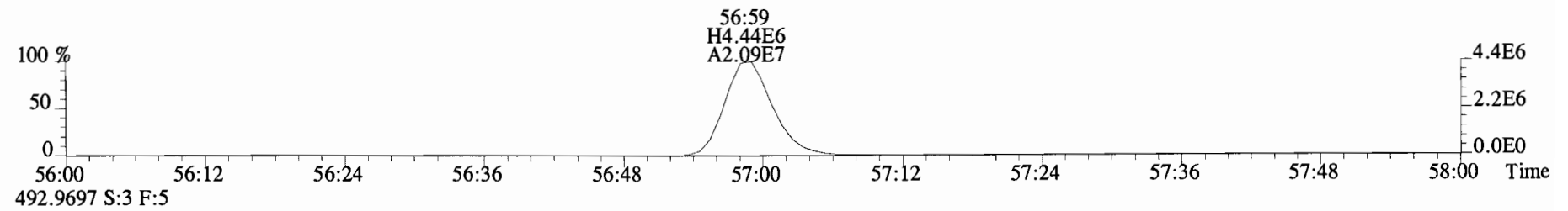
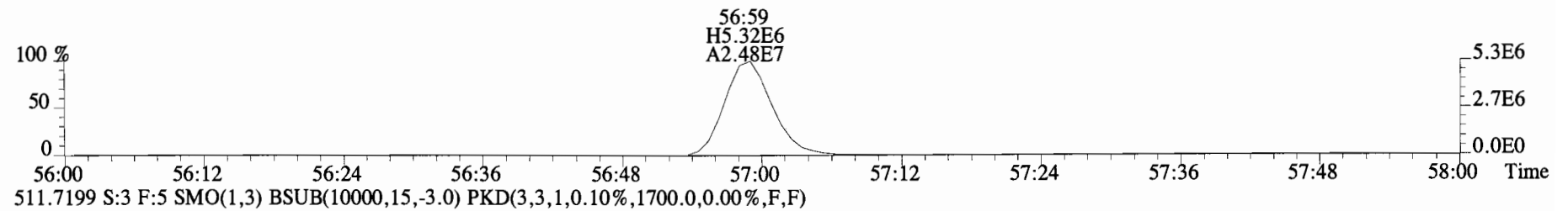
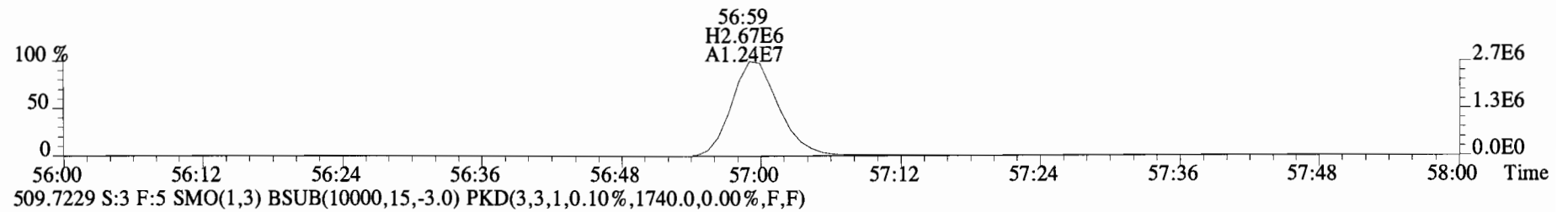
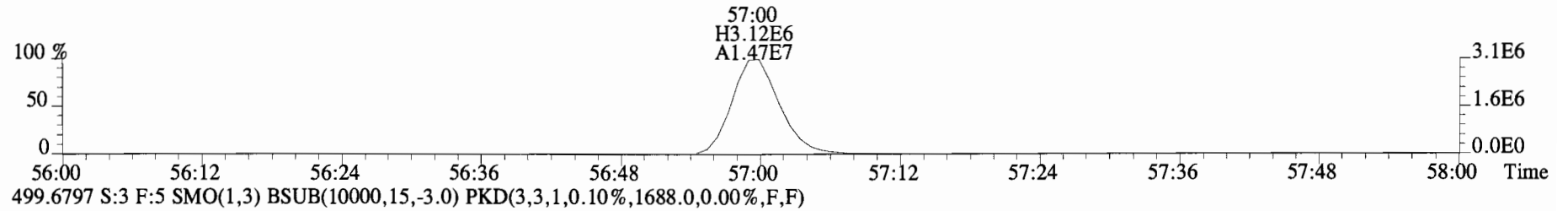
475.7619 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1640.0,0.00%,F,F)



492.9697 S:3 F:5



File:140919E2 #1-430 Acq:20-SEP-2014 01:51:50 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0061-BS1 OPR 10 Exp:PCB_ZB1
497.6826 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1516.0,0.00%,F,F)



Client ID: PS-TS-01-20140909-S
Lab ID: 1400659-03

Filename: 140919E2
GC Column ID: ZB-1

S:8 Acq:20-SEP-14 07:13:59
ICal: PCBVG8-6-23-14 wt/vol: 10.115

ConCal: ST140919E2-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|--------------|----------|------|---------------|------|------|------|-------|------|------|-------|-------------|-----|
| Mono | PCB-1 | 1.89e+06 | 3.00 | y 16:21 | 1.19 | 273 | * | 2.5 | 1.19 | * | 1.002 | 0.996-1.006 | |
| Mono | PCB-2 | 4.90e+05 | 3.24 | y 18:44 | 1.18 | 68.4 | * | 2.5 | 1.18 | * | 0.989 | 0.984-0.994 | |
| Mono | PCB-3 | 8.89e+05 | 2.97 | y 18:58 | 1.43 | 103 | * | 2.5 | 1.43 | * | 1.001 | 0.996-1.006 | |
| Di | PCB-4/10 | 5.65e+05 | 1.53 | y 20:18 | 1.57 | 127 | * | 2.5 | 1.57 | * | 1.001 | 0.997-1.007 | |
| Di | PCB-7/9 | 5.16e+05 | 1.34 | y 22:07 | 1.21 | 97.5 | * | 2.5 | 1.21 | * | 0.869 | 0.866-0.874 | |
| Di | PCB-6 | 5.90e+05 | 1.53 | y 22:46 | 1.30 | 103 | * | 2.5 | 1.30 | * | 0.895 | 0.890-0.899 | |
| Di | PCB-5/8 | 1.46e+06 | 1.62 | y 23:10 | 1.15 | 290 | * | 2.5 | 1.15 | * | 0.910 | 0.907-0.917 | |
| Di | PCB-14 | * | * | n NotF η | 1.11 | * | | 9500 | 2.5 | 47.9 | * | 0.949-0.959 | |
| Di | PCB-11 | 5.97e+06 | 1.63 | y 25:29 | 1.09 | 1160 | * | 2.5 | 1.09 | * | 1.001 | 0.995-1.005 | |
| Di | PCB-12/13 | 3.71e+05 | 1.33 | y 25:51 | 1.19 | 65.4 | * | 2.5 | 1.19 | * | 1.016 | 1.011-1.021 | |
| Di | PCB-15 | 7.47e+05 | 1.37 | y 26:11 | 1.28 | 123 | * | 2.5 | 1.28 | * | 1.029 | 1.023-1.033 | |
| Tri | PCB-19 | * | * | n NotF η | 1.04 | * | | 1870 | 2.5 | 11.5 | * | 0.996-1.006 | |
| Tri | PCB-30 | * | * | n NotF η | 1.71 | * | | 1870 | 2.5 | 7.04 | * | 1.032-1.042 | |
| Tri | PCB-18 | 5.45e+05 | 1.01 | y 26:06 | 0.78 | 141 | * | 2.5 | 0.78 | * | 0.954 | 0.949-0.959 | |
| Tri | PCB-17 | 2.16e+05 | 0.95 | y 26:16 | 0.92 | 47.3 | * | 2.5 | 0.92 | * | 0.960 | 0.956-0.966 | |
| Tri | PCB-24/27 | 8.98e+04 | 1.00 | y 26:50 | 1.19 | 15.3 | * | 2.5 | 1.19 | * | 0.981 | 0.977-0.987 | |
| Tri | PCB-16/32 | 4.72e+05 | 1.12 | y 27:21 | 0.94 | 101 | * | 2.5 | 0.94 | * | 1.000 | 0.995-1.005 | |
| Tri | PCB-34 | * | * | n NotF η | 1.14 | * | | 2220 | 2.5 | 11.7 | * | 0.955-0.965 | |
| Tri | PCB-23 | * | * | n NotF η | 1.28 | * | | 2220 | 2.5 | 10.4 | * | 0.959-0.969 | |
| Tri | PCB-29 | * | * | n NotF η | 1.08 | * | | 2220 | 2.5 | 12.3 | * | 0.967-0.977 | |
| Tri | PCB-26 | 1.69e+05 | 0.83 | n 28:42 | 1.21 | 34.7 | R | * | 2.5 | * | 0.980 | 0.974-0.984 | |
| Tri | PCB-25 | 7.80e+04 | 1.26 | n 28:52 | 1.26 | 15.4 | R | * | 2.5 | * | 0.985 | 0.979-0.989 | |
| Tri | PCB-31 | 7.29e+05 | 1.08 | y 29:13 | 1.28 | 141 | * | 2.5 | 1.28 | * | 0.997 | 0.992-1.002 | |
| Tri | PCB-28 | 8.62e+05 | 1.19 | y 29:20 | 1.71 | 125 | * | 2.5 | 1.71 | * | 1.001 | 0.995-1.005 | |
| Tri | PCB-20/21/33 | 4.61e+05 | 0.91 | y 29:58 | 1.08 | 106 | * | 2.5 | 1.08 | * | 1.023 | 1.017-1.027 | |
| Tri | PCB-22 | 2.60e+05 | 0.99 | y 30:23 | 1.21 | 53.5 | * | 2.5 | 1.21 | * | 1.037 | 1.032-1.042 | |
| Tri | PCB-36 | * | * | n NotF η | 1.14 | * | | 2220 | 2.5 | 13.9 | * | 0.928-0.938 | |
| Tri | PCB-39 | * | * | n NotF η | 1.12 | * | | 2220 | 2.5 | 14.2 | * | 0.943-0.953 | |
| Tri | PCB-38 | * | * | n NotF η | 1.20 | * | | 2220 | 2.5 | 13.2 | * | 0.966-0.976 | |
| Tri | PCB-35 | 1.84e+05 | 1.06 | y 32:46 | 1.23 | 38.5 | * | 2.5 | 1.23 | * | 0.987 | 0.982-0.992 | |
| Tri | PCB-37 | 4.47e+05 | 1.10 | y 33:13 | 1.23 | 94.0 | * | 2.5 | 1.23 | * | 1.001 | 0.995-1.005 | |
| Tetra | PCB-54 | * | * | n NotF η | 1.10 | * | | * | 2.5 | * | * | 0.996-1.006 | |
| Tetra | PCB-50 | * | * | n NotF η | 0.88 | * | | * | 2.5 | * | * | 1.037-1.047 | |
| Tetra | PCB-53 | * | * | n NotF η | 1.06 | * | | * | 2.5 | * | * | 0.942-0.952 | |
| Tetra | PCB-51 | * | * | n NotF η | 0.99 | * | | * | 2.5 | * | * | 0.952-0.962 | |
| Tetra | PCB-45 | * | * | n NotF η | 0.86 | * | | * | 2.5 | * | * | 0.966-0.976 | |
| Tetra | PCB-46 | * | * | n NotF η | 0.85 | * | | * | 2.5 | * | * | 0.981-0.991 | |

*
↓
*

Integrations by:

Analyst: DMS

Date: 9/26/14

* = see Reinjection

Reviewed by: [Signature] Date: 9/26/14

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-----------------|----------|------|-------------|------|------|------|-------|-----|------|-------|-------------|-----|
| Tetra | PCB-52/69 | * | * n | NotF η | 1.28 | * | * | * | 2.5 | * | * | 0.996-1.006 | |
| Tetra | PCB-73 | * | * n | NotF η | 1.35 | * | * | * | 2.5 | * | * | 1.000-1.010 | |
| Tetra | PCB-43/49 | * | * n | NotF η | 0.99 | * | * | * | 2.5 | * | * | 1.005-1.015 | |
| Tetra | PCB-47 | * | * n | NotF η | 1.06 | * | * | * | 2.5 | * | * | 0.996-1.006 | |
| Tetra | PCB-48/75 | * | * n | NotF η | 1.23 | * | * | * | 2.5 | * | * | 0.999-1.009 | |
| Tetra | PCB-65 | * | * n | NotF η | 1.22 | * | * | * | 2.5 | * | * | 1.008-1.018 | |
| Tetra | PCB-62 | * | * n | NotF η | 1.22 | * | * | * | 2.5 | * | * | 1.011-1.021 | |
| Tetra | PCB-44 | * | * n | NotF η | 0.86 | * | * | * | 2.5 | * | * | 1.021-1.031 | |
| Tetra | PCB-42/59 | * | * n | NotF η | 1.14 | * | * | * | 2.5 | * | * | 1.028-1.038 | |
| Tetra | PCB-41/64/71/72 | * | * n | NotF η | 1.21 | * | * | * | 2.5 | * | * | 1.046-1.056 | |
| Tetra | PCB-68 | * | * n | NotF η | 1.35 | * | * | * | 2.5 | * | * | 1.054-1.064 | |
| Tetra | PCB-40 | * | * n | NotF η | 0.70 | * | * | * | 2.5 | * | * | 1.061-1.071 | |
| Tetra | PCB-57 | * | * n | NotF η | 0.98 | * | * | * | 2.5 | * | * | 0.965-0.975 | |
| Tetra | PCB-67 | * | * n | NotF η | 1.11 | * | * | * | 2.5 | * | * | 0.974-0.984 | |
| Tetra | PCB-58 | * | * n | NotF η | 0.93 | * | * | * | 2.5 | * | * | 0.977-0.987 | |
| Tetra | PCB-63 | * | * n | NotF η | 0.95 | * | * | * | 2.5 | * | * | 0.982-0.992 | |
| Tetra | PCB-74 | * | * n | NotF η | 1.24 | * | * | * | 2.5 | * | * | 0.990-1.000 | |
| Tetra | PCB-61/70 | * | * n | NotF η | 0.95 | * | * | * | 2.5 | * | * | 0.995-1.005 | |
| Tetra | PCB-76/66 | * | * n | NotF η | 1.04 | * | * | * | 2.5 | * | * | 1.001-1.011 | |
| Tetra | PCB-80 | * | * n | NotF η | 1.19 | * | * | * | 2.5 | * | * | 0.996-1.006 | |
| Tetra | PCB-55 | * | * n | NotF η | 1.04 | * | * | * | 2.5 | * | * | 1.005-1.015 | |
| Tetra | PCB-56/60 | * | * n | NotF η | 1.01 | * | * | * | 2.5 | * | * | 1.019-1.029 | |
| Tetra | PCB-79 | * | * n | NotF η | 1.08 | * | * | * | 2.5 | * | * | 1.048-1.058 | |
| Tetra | PCB-78 | * | * n | NotF η | 1.27 | * | * | * | 2.5 | * | * | 0.982-0.992 | |
| Tetra | PCB-81 | * | * n | NotF η | 1.33 | * | * | * | 2.5 | * | * | 0.995-1.005 | |
| Tetra | PCB-77 | * | * n | NotF η | 1.10 | * | * | * | 2.5 | * | * | 0.995-1.005 | |
| Penta | PCB-104 | * | * n | NotF η | 1.18 | * | | 2130 | 2.5 | 22.1 | * | 0.996-1.006 | |
| Penta | PCB-96 | * | * n | NotF η | 1.14 | * | | 2130 | 2.5 | 23.0 | * | 1.034-1.044 | |
| Penta | PCB-103 | * | * n | NotF η | 0.96 | * | | 2130 | 2.5 | 27.4 | * | 1.050-1.060 | |
| Penta | PCB-100 | * | * n | NotF η | 0.94 | * | | 2130 | 2.5 | 27.9 | * | 1.061-1.071 | |
| Penta | PCB-94 | * | * n | NotF η | 1.06 | * | | 2130 | 2.5 | 31.2 | * | 0.980-0.990 | |
| Penta | PCB-95/98/102 | 2.05e+06 | 1.69 | y 36:04 | 1.22 | 823 | * | * | 2.5 | * | 1.001 | 0.995-1.005 | |
| Penta | PCB-93 | * | * n | NotF η | 0.84 | * | | 2130 | 2.5 | 39.1 | * | 0.997-1.007 | |
| Penta | PCB-88/91 | 2.97e+05 | 1.73 | y 36:27 | 1.12 | 131 | * | * | 2.5 | * | 1.012 | 1.005-1.015 | |
| Penta | PCB-121 | * | * n | NotF η | 1.62 | * | | 2130 | 2.5 | 20.4 | * | 1.009-1.019 | |
| Penta | PCB-84/92 | 1.15e+06 | 1.77 | y 37:22 | 1.05 | 513 | * | * | 2.5 | * | 0.990 | 0.985-0.995 | |
| Penta | PCB-89 | 2.06e+04 | 1.14 | n 37:33 | 1.13 | 8.48 | * | * | 2.5 | * | 0.995 | 0.991-1.001 | |

* = SEC REINJECTION

Analyst: Dms

Date: 9/26/14

Client ID: PS-TS-01-20140909-S
Lab ID: 1400659-03RE1 DL 1:20

Filename: 140919E2
GC Column ID: ZB-1

S:8 Acq:20-SEP-14 07:13:59
ICal: PCBVG8-6-23-14 wt/vol:10.115

ConCal: ST140919E2-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|----------------|----------|------|---------------|------|------|------|-------|-----|------|-------|-------------|-----|
| Penta | PCB-90/101 | 3.71e+06 | 1.78 | y 37:45 | 1.10 | 1570 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Penta | PCB-113 | 1.25e+05 | 1.86 | n 37:56 | 1.41 | 41.2 | R | * | 2.5 | * | 1.005 | 1.002-1.012 | |
| Penta | PCB-99 | 1.29e+06 | 1.72 | y 38:04 | 1.34 | 450 | | * | 2.5 | * | 1.009 | 1.004-1.014 | |
| Penta | PCB-119 | * | * | n NotF η | 1.53 | * | | 2130 | 2.5 | 21.5 | * | 0.982-0.992 | |
| Penta | PCB-108/112 | 1.63e+05 | 1.40 | y 38:43 | 1.28 | 65.1 | | * | 2.5 | * | 0.992 | 0.986-0.996 | |
| Penta | PCB-83 | * | * | n NotF η | 1.52 | * | | 2130 | 2.5 | 21.7 | * | 0.990-1.000 | |
| Penta | PCB-97 | 8.14e+05 | 1.65 | y 39:03 | 1.18 | 352 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Penta | PCB-86 | * | * | n NotF η | 0.84 | * | | 2130 | 2.5 | 39.1 | * | 0.999-1.009 | |
| Penta | PCB-87/117/125 | 1.42e+06 | 1.70 | y 39:20 | 1.55 | 469 | | * | 2.5 | * | 1.008 | 1.002-1.012 | |
| Penta | PCB-111/115 | 7.69e+04 | 1.11 | n 39:29 | 1.63 | 24.0 | R | * | 2.5 | * | 1.012 | 1.006-1.016 | |
| Penta | PCB-85/116 | 4.98e+05 | 1.75 | y 39:36 | 1.30 | 195 | | * | 2.5 | * | 1.015 | 1.010-1.020 | |
| Penta | PCB-120 | * | * | n NotF η | 1.68 | * | | 2130 | 2.5 | 19.7 | * | 1.016-1.026 | |
| Penta | PCB-110 | 4.54e+06 | 1.72 | y 39:59 | 1.56 | 1490 | | * | 2.5 | * | 1.024 | 1.020-1.030 | |
| Penta | PCB-82 | 2.93e+05 | 1.47 | y 40:37 | 0.76 | 156 | | * | 2.5 | * | 0.977 | 0.971-0.981 | |
| Penta | PCB-124 | 1.89e+05 | 1.88 | n 41:18 | 1.47 | 52.0 | R | * | 2.5 | * | 0.993 | 0.988-0.998 | |
| Penta | PCB-107/109 | 2.47e+05 | 1.32 | y 41:27 | 1.32 | 75.5 | | * | 2.5 | * | 0.997 | 0.991-1.001 | |
| Penta | PCB-123 | 6.85e+04 | 1.39 | y 41:37 | 1.17 | 23.7 | | * | 2.5 | * | 1.001 | 0.996-1.006 | |
| Penta | PCB-106/118 | 3.67e+06 | 1.77 | y 41:48 | 1.17 | 1220 | | * | 2.5 | * | 1.000 | 0.996-1.006 | |
| Penta | PCB-114 | * | * | n NotF η | 1.30 | * | | 5580 | 2.5 | 54.6 | * | 0.995-1.005 | |
| Penta | PCB-122 | * | * | n NotF η | 1.12 | * | | 5580 | 2.5 | 63.1 | * | 0.999-1.009 | |
| Penta | PCB-105 | 1.61e+06 | 1.61 | y 43:19 | 1.30 | 472 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Penta | PCB-127 | * | * | n NotF η | 1.33 | * | | 5580 | 2.5 | 53.3 | * | 0.996-1.006 | |
| Penta | PCB-126 | * | * | n NotF η | 1.18 | * | | 5580 | 2.5 | 78.3 | * | 0.995-1.005 | |
| Hexa | PCB-155 | * | * | n NotF η | 1.11 | * | | 1630 | 2.5 | 16.6 | * | 0.966-1.006 | |
| Hexa | PCB-150 | * | * | n NotF η | 1.00 | * | | 1630 | 2.5 | 18.5 | * | 1.030-1.040 | |
| Hexa | PCB-152 | * | * | n NotF η | 1.12 | * | | 1630 | 2.5 | 16.6 | * | 1.043-1.053 | |
| Hexa | PCB-145 | * | * | n NotF η | 1.20 | * | | 1630 | 2.5 | 15.4 | * | 1.055-1.065 | |
| Hexa | PCB-136 | 7.68e+05 | 1.41 | y 39:47 | 1.18 | 251 | | * | 2.5 | * | 1.068 | 1.064-1.074 | |
| Hexa | PCB-148 | * | * | n NotF η | 0.74 | * | | 1630 | 2.5 | 24.9 | * | 1.066-1.076 | |
| Hexa | PCB-154 | 6.33e+04 | 1.31 | y 40:24 | 0.86 | 28.4 | | * | 2.5 | * | 1.084 | 1.080-1.090 | |
| Hexa | PCB-151 | 1.15e+06 | 1.21 | y 41:02 | 0.75 | 596 | | * | 2.5 | * | 1.101 | 1.097-1.107 | |
| Hexa | PCB-135 | 5.63e+05 | 1.37 | y 41:15 | 0.79 | 274 | | * | 2.5 | * | 1.107 | 1.103-1.113 | |
| Hexa | PCB-144 | 2.52e+05 | 1.20 | y 41:22 | 0.76 | 127 | | * | 2.5 | * | 1.110 | 1.105-1.117 | |
| Hexa | PCB-147 | 5.48e+04 | 0.97 | n 41:30 | 0.82 | 25.8 | R | * | 2.5 | * | 1.114 | 1.109-1.121 | |
| Hexa | PCB-139/149 | 3.67e+06 | 1.27 | y 41:45 | 0.76 | 1860 | | * | 2.5 | * | 1.120 | 1.116-1.128 | |
| Hexa | PCB-140 | * | * | n NotF η | 0.72 | * | | 1630 | 2.5 | 25.6 | * | 1.121-1.133 | |
| Hexa | PCB-134/143 | 2.65e+05 | 1.40 | y 42:23 | 0.92 | 114 | | * | 2.5 | * | 0.975 | 0.970-0.980 | |

Analyst: *Dms*

Date: 9/26/14

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-----------------|----------|------|---------------|------|------|------|-------|-----|------|-------|-------------|-----|
| Hexa | PCB-133/142 | 1.72e+05 | 1.34 | y 42:41 | 0.82 | 83.2 | * | 2.5 | * | * | 0.982 | 0.977-0.987 | |
| Hexa | PCB-131 | * | * | n NotF η | 0.91 | * | | 2970 | 2.5 | 37.6 | * | 0.981-0.991 | |
| Hexa | PCB-146/165 | 8.93e+05 | 1.42 | y 43:05 | 1.25 | 284 | * | 2.5 | * | * | 0.992 | 0.986-0.996 | |
| Hexa | PCB-132/161 | 1.64e+06 | 1.27 | y 43:20 | 1.10 | 586 | * | 2.5 | * | * | 0.997 | 0.992-1.002 | |
| Hexa | PCB-153 | 5.91e+06 | 1.24 | y 43:28 | 1.25 | 1870 | * | 2.5 | * | * | 1.000 | 0.995-1.005 | |
| Hexa | PCB-168 | * | * | n NotF η | 1.45 | * | | 2970 | 2.5 | 23.6 | * | 1.001-1.011 | |
| Hexa | PCB-141 | 1.20e+06 | 1.31 | y 44:13 | 1.09 | 486 | * | 2.5 | * | * | 1.000 | 0.995-1.005 | |
| Hexa | PCB-137 | 2.51e+05 | 1.24 | y 44:36 | 1.06 | 104 | * | 2.5 | * | * | 1.009 | 1.004-1.014 | |
| Hexa | PCB-130 | 3.18e+05 | 1.30 | y 44:42 | 0.96 | 145 | * | 2.5 | * | * | 1.011 | 1.006-1.016 | |
| Hexa | PCB-138/163/164 | 6.38e+06 | 1.33 | y 45:04 | 1.29 | 2170 | * | 2.5 | * | * | 1.001 | 0.996-1.006 | |
| Hexa | PCB-158/160 | 7.41e+05 | 1.12 | y 45:18 | 1.34 | 243 | * | 2.5 | * | * | 1.006 | 1.001-1.011 | |
| Hexa | PCB-129 | 1.95e+05 | 1.27 | y 45:33 | 0.85 | 101 | * | 2.5 | * | * | 1.011 | 1.007-1.017 | |
| Hexa | PCB-166 | * | * | n NotF η | 1.19 | * | | 2970 | 2.5 | 31.2 | * | 0.988-0.998 | |
| Hexa | PCB-159 | * | * | n NotF η | 1.11 | * | | 2970 | 2.5 | 33.3 | * | 0.996-1.006 | |
| Hexa | PCB-128/162 | 8.67e+05 | 1.40 | y 46:37 | 1.05 | 350 | * | 2.5 | * | * | 1.006 | 1.002-1.012 | |
| Hexa | PCB-167 | * | * | n NotF η | 1.20 | 71.0 | * | 2.5 | * | * | * | 0.995-1.005 | |
| Hexa | PCB-156 | 5.61e+05 | 1.41 | y 48:19 | 1.14 | 203 | * | 2.5 | * | * | 1.000 | 0.996-1.006 | |
| Hexa | PCB-157 | 1.73e+05 | 1.30 | y 48:36 | 1.16 | 53.2 | * | 2.5 | * | * | 1.001 | 0.995-1.005 | |
| Hexa | PCB-169 | * | * | n NotF η | 1.12 | * | | 2970 | 2.5 | 36.1 | * | 0.995-1.005 | |
| Hepta | PCB-188 | * | * | n NotF η | 1.58 | * | | 2240 | 2.5 | 14.5 | * | 0.996-1.006 | |
| Hepta | PCB-184 | * | * | n NotF η | 1.63 | * | | 2240 | 2.5 | 14.0 | * | 1.006-1.016 | |
| Hepta | PCB-179 | 1.19e+06 | 1.15 | y 44:20 | 1.30 | 472 | * | 2.5 | * | * | 1.029 | 1.024-1.034 | |
| Hepta | PCB-176 | 3.41e+05 | 0.95 | y 44:48 | 1.48 | 120 | * | 2.5 | * | * | 1.040 | 1.035-1.045 | |
| Hepta | PCB-186 | * | * | n NotF η | 1.45 | * | | 2240 | 2.5 | 15.8 | * | 1.050-1.060 | |
| Hepta | PCB-178 | 3.95e+05 | 1.10 | y 45:54 | 1.03 | 197 | * | 2.5 | * | * | 1.065 | 1.061-1.071 | |
| Hepta | PCB-175 | 8.26e+04 | 1.17 | y 46:13 | 1.01 | 42.2 | * | 2.5 | * | * | 1.073 | 1.069-1.079 | |
| Hepta | PCB-182/187 | 2.68e+06 | 1.13 | y 46:24 | 1.25 | 1110 | * | 2.5 | * | * | 1.077 | 1.073-1.083 | |
| Hepta | PCB-183 | 1.15e+06 | 1.10 | y 46:45 | 1.21 | 492 | * | 2.5 | * | * | 1.085 | 1.081-1.091 | |
| Hepta | PCB-185 | 2.49e+05 | 1.19 | y 47:24 | 1.80 | 104 | * | 2.5 | * | * | 0.956 | 0.951-0.961 | |
| Hepta | PCB-174 | 1.77e+06 | 1.13 | y 47:46 | 1.38 | 967 | * | 2.5 | * | * | 0.963 | 0.958-0.968 | |
| Hepta | PCB-181 | * | * | n NotF η | 1.38 | * | | 2240 | 2.5 | 24.1 | * | 0.960-0.970 | |
| Hepta | PCB-177 | 8.77e+05 | 1.16 | y 48:02 | 1.26 | 526 | * | 2.5 | * | * | 0.968 | 0.963-0.973 | |
| Hepta | PCB-171 | 3.87e+05 | 1.17 | y 48:19 | 1.58 | 184 | * | 2.5 | * | * | 0.974 | 0.970-0.980 | |
| Hepta | PCB-173 | * | * | n NotF η | 1.11 | * | | 2240 | 2.5 | 29.9 | * | 0.978-0.988 | |
| Hepta | PCB-172 | 2.83e+05 | 0.96 | y 49:13 | 1.63 | 130 | * | 2.5 | * | * | 0.992 | 0.987-0.997 | |
| Hepta | PCB-192 | * | * | n NotF η | 1.74 | * | | 2240 | 2.5 | 19.1 | * | 0.991-1.001 | |
| Hepta | PCB-180 | 4.00e+06 | 1.12 | y 49:37 | 1.34 | 2240 | * | 2.5 | * | * | 1.000 | 0.995-1.005 | |

*71.0 * see re-injection*

Analyst: *DMS*

Date: *9/26/14*

Client ID: PS-TS-01-20140909-S
Lab ID: 1400659-03RE1 DL 1:20

Filename: 140919E2
GC Column ID: ZB-1

S:8 Acq:20-SEP-14 07:13:59
ICal: PCBVG8-6-23-14 wt/vol:10.115

ConCal: ST140919E2-1
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-------------|----------|------|---------------|------|------|-------------|-------|-----|-------|-------|-------------|-----|
| Hepta | PCB-193 | 2.41e+05 | 1.17 | y 49:48 | 1.72 | 106 | | * | 2.5 | * | 1.004 | 0.999-1.009 | |
| Hepta | PCB-191 | 8.06e+04 | 1.14 | y 50:04 | 1.69 | 35.8 | | * | 2.5 | * | 1.009 | 1.004-1.014 | |
| Hepta | PCB-170 | 1.12e+06 | 1.07 | y 51:05 | 1.60 | 698 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Hepta | PCB-190 | 2.86e+05 | 1.09 | y 51:15 | 2.21 | 129 | | * | 2.5 | * | 1.004 | 0.998-1.008 | |
| Hepta | PCB-189 | * | * | n NotF η | 1.55 | 56.3 | R sec Reint | * | 2.5 | * | * | 0.995-1.005 | |
| Octa | PCB-202 | 3.26e+05 | 1.02 | y 48:32 | 1.08 | 172 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Octa | PCB-201 | 2.65e+05 | 0.99 | y 49:01 | 1.15 | 132 | | * | 2.5 | * | 1.010 | 1.005-1.015 | |
| Octa | PCB-204 | * | * | n NotF η | 1.14 | * | | 2340 | 2.5 | 28.3 | * | 1.008-1.018 | |
| Octa | PCB-197 | 7.47e+04 | 0.79 | y 49:29 | 1.07 | 39.8 | | * | 2.5 | * | 1.020 | 1.015-1.025 | |
| Octa | PCB-200 | 1.71e+05 | 0.82 | y 50:21 | 1.06 | 92.2 | | * | 2.5 | * | 1.038 | 1.032-1.044 | |
| Octa | PCB-198 | * | * | n NotF η | 0.76 | * | | 2340 | 2.5 | 42.7 | * | 1.059-1.069 | |
| Octa | PCB-199 | 1.02e+06 | 0.95 | y 51:45 | 0.80 | 728 | | * | 2.5 | * | 1.067 | 1.061-1.071 | |
| Octa | PCB-196/203 | 1.03e+06 | 0.96 | y 52:01 | 0.80 | 735 | | * | 2.5 | * | 1.072 | 1.066-1.076 | |
| Octa | PCB-195 | 2.76e+05 | 0.99 | y 53:11 | 1.23 | 206 | | 8.00 | 2.5 | 0.117 | 0.984 | 0.979-0.989 | |
| Octa | PCB-194 | 7.24e+05 | 0.89 | y 54:04 | 1.21 | 549 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Octa | PCB-205 | * | * | n NotF η | 1.54 | * | | 3330 | 2.5 | 38.6 | * | 1.001-1.011 | |
| Nona | PCB-208 | 1.61e+05 | 1.48 | y 53:19 | 0.93 | 126 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Nona | PCB-207 | 8.16e+04 | 1.06 | n 53:38 | 1.08 | 54.8 | R | * | 2.5 | * | 1.006 | 1.001-1.011 | |
| Nona | PCB-206 | 3.34e+05 | 1.54 | y 55:45 | 1.02 | 440 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Deca | PCB-209 | 7.66e+04 | 1.07 | y 57:06 | 1.17 | 92.2 | | * | 2.5 | * | 1.000 | 0.995-1.005 | |

Analyst: Dms

Date: 9/26/14

| Name | Resp | RA | RT | RRF | Conc |
|-----------------|----------|--------|--------|------|---------------------|
| Total Mono-PCB | 3.27e+06 | 3.00 y | 16:21 | 1.27 | 444.336 |
| Total Di-PCB | 1.02e+07 | 1.53 y | 20:18 | 1.21 | 1961.03 |
| Total Tri-PCB | 1.32e+06 | 1.01 y | 26:06 | 1.10 | 304.728 |
| Total Tri-PCB | 2.94e+06 | 1.08 y | 29:13 | 1.21 | 557.946 Sum:862.674 |
| Total Tetra-PCB | * | * n | NotFnd | 1.09 | 2274.75 * |
| Total Penta-PCB | 2.02e+07 | 1.69 y | 36:04 | 1.18 | 7528.42 |
| Total Penta-PCB | 1.61e+06 | 1.61 y | 43:19 | 1.25 | 471.968 Sum:8000.39 |
| Total Hexa-PCB | 6.47e+06 | 1.41 y | 39:47 | 0.90 | 3134.65 |
| Total Hexa-PCB | 1.96e+07 | 1.40 y | 42:23 | 1.11 | 6795.51 Sum:9930.16 |
| Total Hepta-PCB | 1.51e+07 | 1.15 y | 44:20 | 1.42 | 7548.27 |
| Total Octa-PCB | 2.88e+06 | 1.02 y | 48:32 | 0.96 | 1899.08 |
| Total Octa-PCB | 9.99e+05 | 0.99 y | 53:11 | 1.33 | 754.929 Sum:2654.01 |
| Total Nona-PCB | 4.95e+05 | 1.48 y | 53:19 | 1.01 | 565.713 |
| Total Deca-PCB | 7.66e+04 | 1.07 y | 57:06 | 1.17 | 92.2482 |

Total PCB Conc:32315.1693770 + 2458.688 = 34773.9
34400
* = See original
reintegration
DMS 9/26/14

Integrations
by
Analyst: DMS
Date: 9/26/14

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec | CRS vs. RS | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec |
|-------------|----------|------|-----|------|-------|-------|-------------|------|-----------------|------------|-------------|----------|------|-----|------|-------|-------|-------------|------|----------------|
| 13C-PCB-1 | 5.74e+06 | 3.28 | y | 0.87 | 16:19 | 0.624 | 0.629-0.635 | 1160 | 118 | | | | | | | | | | | |
| 13C-PCB-3 | 5.97e+06 | 3.52 | y | 0.91 | 18:57 | 0.724 | 0.725-0.733 | 1160 | 117 | | 13C-PCB-79 | 4.20e+06 | 0.84 | y | 1.02 | 38:03 | 1.029 | 1.023-1.034 | 1020 | 104 |
| 13C-PCB-4 | 2.81e+06 | 1.63 | y | 0.59 | 20:17 | 0.775 | 0.775-0.783 | 845 | 85.4 | | 13C-PCB-178 | 1.38e+06 | 0.42 | y | 0.61 | 45:53 | 0.985 | 0.979-0.990 | 966 | 97.7 |
| 13C-PCB-9 | 4.33e+06 | 1.59 | y | 0.90 | 22:04 | 0.843 | 0.842-0.850 | 853 | 86.2 | | | | | | | | | | | |
| 13C-PCB-11 | 4.70e+06 | 1.60 | y | 0.94 | 25:27 | 0.973 | 0.968-0.978 | 885 | 89.6 | | | | | | | | | | | |
| 13C-PCB-19 | 3.23e+06 | 1.07 | y | 0.53 | 24:26 | 0.934 | 0.930-0.940 | 1070 | 109 | | | | | | | | | | | |
| 13C-PCB-28 | 3.98e+06 | 1.03 | y | 0.93 | 29:18 | 1.003 | 0.999-1.009 | 970 | 98.1 | | 13C-PCB-79 | 4.20e+06 | 0.84 | y | 1.10 | 38:03 | 0.969 | 0.964-0.974 | 1110 | 113 |
| 13C-PCB-32 | 4.90e+06 | 1.15 | y | 0.80 | 27:21 | 1.045 | 1.040-1.050 | 1090 | 110 | | 13C-PCB-178 | 1.38e+06 | 0.42 | y | 0.90 | 45:53 | 0.925 | 0.920-0.930 | 1150 | 117 |
| 13C-PCB-37 | 3.83e+06 | 1.06 | y | 0.84 | 33:11 | 1.136 | 1.131-1.143 | 1040 | 105 | | | | | | | | | | | |
| 13C-PCB-47 | 3.13e+06 | 0.85 | y | 0.81 | 32:14 | 0.872 | 0.866-0.874 | 957 | 94.8 | | | | | | | | | | | |
| 13C-PCB-52 | 3.06e+06 | 0.84 | y | 0.77 | 31:43 | 0.858 | 0.853-0.861 | 983 | 95.4 | | | | | | | | | | | |
| 13C-PCB-54 | 3.68e+06 | 0.83 | y | 0.97 | 28:11 | 0.762 | 0.758-0.766 | 942 | 95.3 | | | | | | | | | | | |
| 13C-PCB-70 | 3.79e+06 | 0.82 | y | 1.00 | 35:44 | 0.966 | 0.961-0.971 | 942 | 95.2 | | | | | | | | | | | |
| 13C-PCB-77 | 3.53e+06 | 0.87 | y | 0.94 | 39:52 | 1.078 | 1.073-1.083 | 931 | 94.2 | | | | | | | | | | | |
| 13C-PCB-80 | 3.93e+06 | 0.88 | y | 1.03 | 36:09 | 0.977 | 0.972-0.982 | 945 | 95.6 | | | | | | | | | | | |
| 13C-PCB-81 | 3.38e+06 | 0.88 | y | 0.92 | 39:17 | 1.062 | 1.057-1.067 | 910 | 92.1 | | | | | | | | | | | |
| 13C-PCB-95 | 2.01e+06 | 1.46 | y | 0.74 | 36:02 | 0.913 | 0.908-0.918 | 909 | 91.9 | | | | | | | | | | | |
| 13C-PCB-97 | 1.94e+06 | 1.47 | y | 0.70 | 39:02 | 0.989 | 0.984-0.994 | 921 | 93.1 | | | | | | | | | | | |
| 13C-PCB-101 | 2.12e+06 | 1.73 | y | 0.78 | 37:44 | 0.956 | 0.951-0.961 | 908 | 91.8 | | | | | | | | | | | |
| 13C-PCB-104 | 2.75e+06 | 1.77 | y | 1.00 | 32:53 | 0.834 | 0.828-0.836 | 920 | 93.1 | | 13C-PCB-15 | 5.60e+06 | 1.59 | y | 1.00 | 26:10 | | | 989 | |
| 13C-PCB-105 | 2.60e+06 | 1.67 | y | 1.37 | 43:18 | 0.930 | 0.924-0.934 | 819 | 82.9 | | 13C-PCB-31 | 4.35e+06 | 1.10 | y | 1.00 | 29:12 | | | 989 | |
| 13C-PCB-114 | 2.77e+06 | 1.77 | y | 1.36 | 42:27 | 0.911 | 0.905-0.915 | 874 | 88.4 | | 13C-PCB-60 | 3.98e+06 | 0.93 | n | 1.00 | 36:59 | | | 989 | |
| 13C-PCB-118 | 2.55e+06 | 1.54 | y | 0.96 | 41:47 | 1.059 | 1.054-1.064 | 890 | 90.0 | | 13C-PCB-111 | 2.95e+06 | 1.62 | y | 1.00 | 39:27 | | | 989 | |
| 13C-PCB-123 | 2.44e+06 | 1.64 | y | 0.89 | 41:35 | 1.054 | 1.050-1.060 | 916 | 92.6 | | 13C-PCB-128 | 2.29e+06 | 1.35 | y | 1.00 | 46:35 | | | 989 | |
| 13C-PCB-126 | 2.32e+06 | 1.75 | y | 1.31 | 45:33 | 0.978 | 0.972-0.982 | 766 | 77.5 | | 13C-PCB-205 | 1.37e+06 | 0.85 | y | 1.00 | 54:21 | | | 989 | |
| 13C-PCB-127 | 2.82e+06 | 1.61 | y | 1.47 | 43:38 | 0.937 | 0.931-0.941 | 824 | 83.3 | | | | | | | | | | | |
| 13C-PCB-138 | 2.25e+06 | 1.38 | y | 1.10 | 45:02 | 0.967 | 0.961-0.971 | 881 | 89.1 | | | | | | | | | | | |
| 13C-PCB-141 | 2.25e+06 | 1.42 | y | 1.07 | 44:12 | 0.949 | 0.943-0.953 | 904 | 91.4 | | | | | | | | | | | |
| 13C-PCB-153 | 2.50e+06 | 1.24 | y | 1.15 | 43:27 | 0.933 | 0.927-0.937 | 938 | 94.9 | | | | | | | | | | | |
| 13C-PCB-155 | 2.57e+06 | 1.25 | y | 0.84 | 37:16 | 0.945 | 0.939-0.949 | 1020 | 104 | | | | | | | | | | | |
| 13C-PCB-156 | 2.41e+06 | 1.42 | y | 1.30 | 48:18 | 1.037 | 1.032-1.042 | 800 | 80.9 | | | | | | | | | | | |
| 13C-PCB-157 | 2.76e+06 | 1.39 | y | 1.36 | 48:34 | 1.043 | 1.038-1.048 | 875 | 88.5 | | | | | | | | | | | |
| 13C-PCB-159 | 2.34e+06 | 1.24 | y | 1.25 | 46:20 | 0.995 | 0.989-0.999 | 808 | 81.7 | | | | | | | | | | | |
| 13C-PCB-167 | 2.29e+06 | 1.53 | n | 1.35 | 47:01 | 1.009 | 1.004-1.014 | 730 | 73.8 | | | | | | | | | | | |
| 13C-PCB-169 | 2.08e+06 | 1.38 | y | 1.29 | 50:42 | 1.088 | 1.083-1.093 | 698 | 70.6 | | | | | | | | | | | |
| 13C-PCB-170 | 9.94e+05 | 0.49 | y | 0.54 | 51:04 | 1.096 | 1.089-1.101 | 789 | 79.8 | | | | | | | | | | | |
| 13C-PCB-180 | 1.31e+06 | 0.43 | y | 0.68 | 49:36 | 1.065 | 1.060-1.070 | 827 | 83.7 | | | | | | | | | | | |
| 13C-PCB-188 | 1.91e+06 | 0.47 | y | 0.92 | 43:05 | 0.925 | 0.919-0.929 | 897 | 90.8 | | | | | | | | | | | |
| 13C-PCB-189 | 8.25e+05 | 0.52 | y | 0.72 | 52:33 | 1.128 | 1.120-1.132 | 496 | 50.2 | | | | | | | | | | | |
| 13C-PCB-194 | 1.08e+06 | 0.84 | y | 0.80 | 54:04 | 0.995 | 0.990-1.000 | 974 | 98.5 | | | | | | | | | | | |
| 13C-PCB-202 | 1.73e+06 | 0.86 | y | 0.84 | 48:31 | 1.042 | 1.036-1.046 | 889 | 89.9 | | | | | | | | | | | |
| 13C-PCB-206 | 7.33e+05 | 0.79 | y | 0.65 | 55:44 | 1.025 | 1.021-1.031 | 814 | 82.3 | | | | | | | | | | | |
| 13C-PCB-208 | 1.36e+06 | 0.83 | y | 1.08 | 53:18 | 0.981 | 0.976-0.986 | 906 | 91.7 | | | | | | | | | | | |
| 13C-PCB-209 | 7.01e+05 | 1.17 | y | 0.61 | 57:07 | 1.051 | 1.045-1.055 | 829 | 83.8 | | | | | | | | | | | |

88.0
91.7
88.5
90.9
84.4
91.1
87.2
} * see REINJECTION

83.3 *

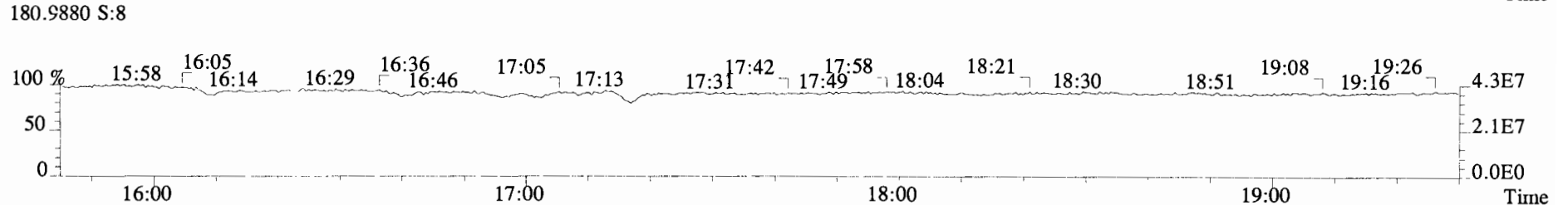
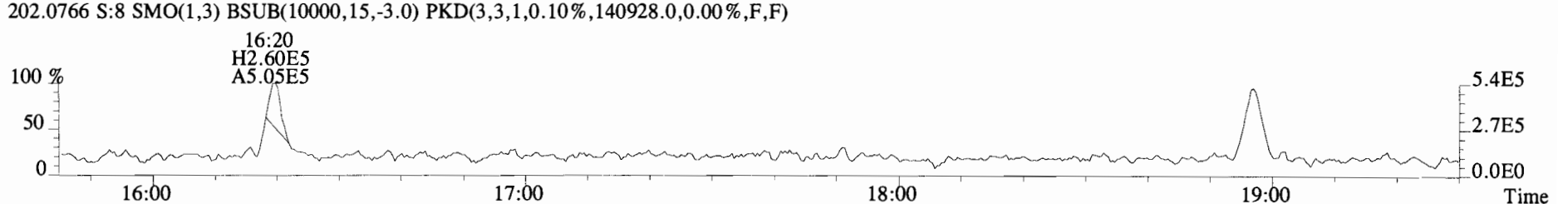
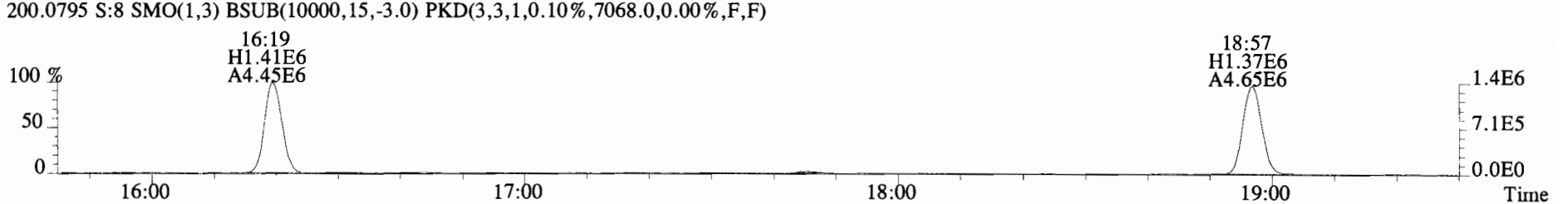
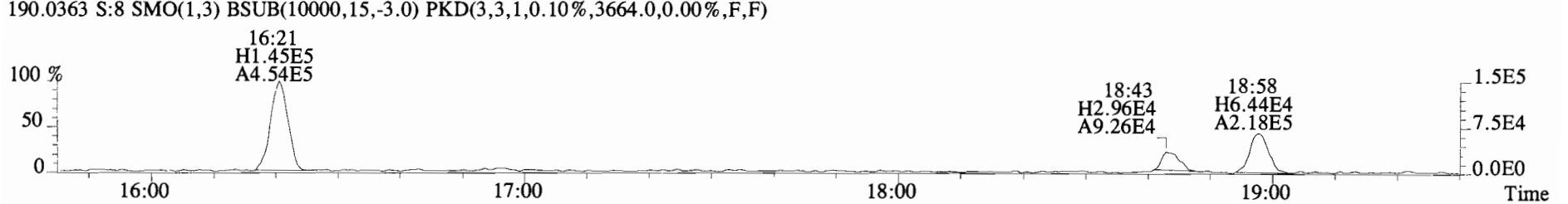
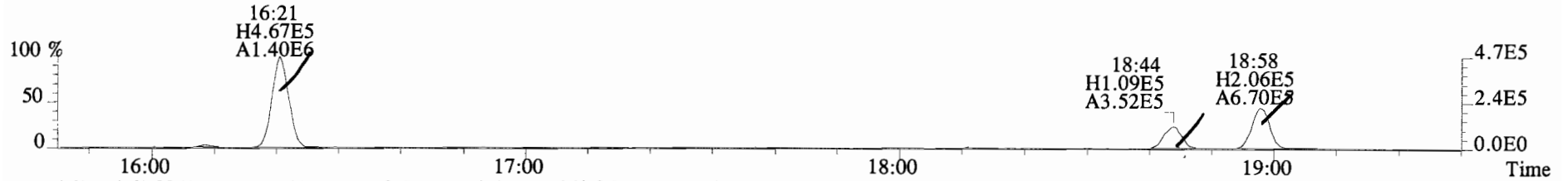
65.5 *

Analyst: DMS

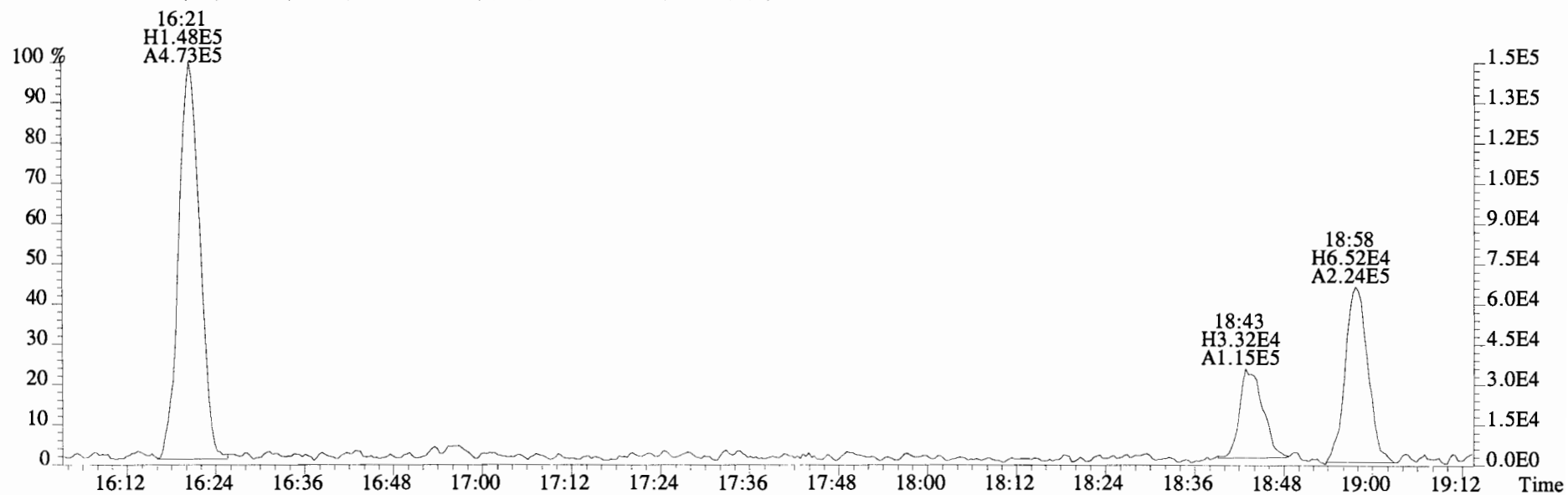
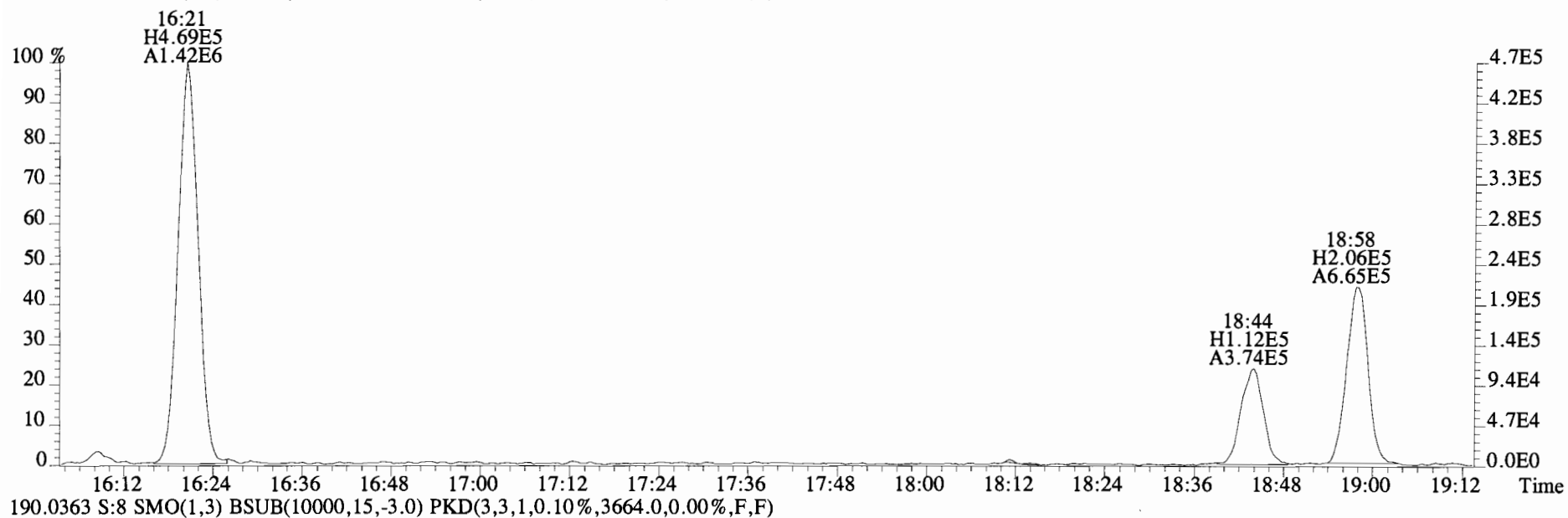
Date: 9/26/14

95.3

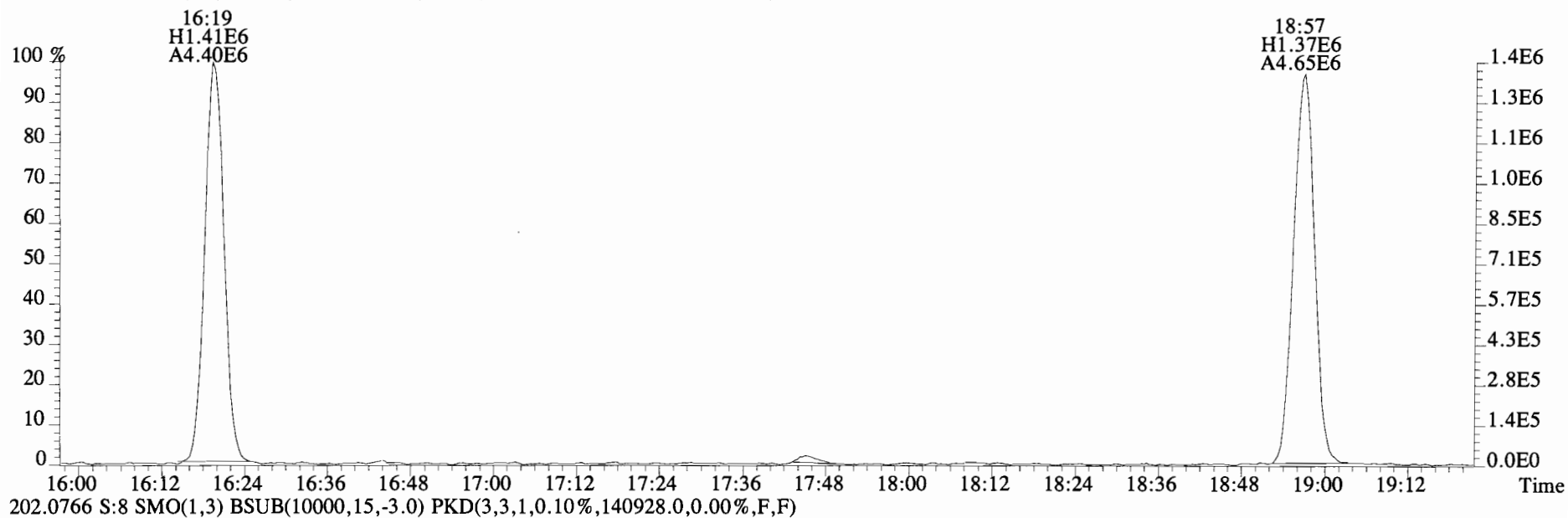
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 Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
 188.0393 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3232.0,0.00%,F,F)



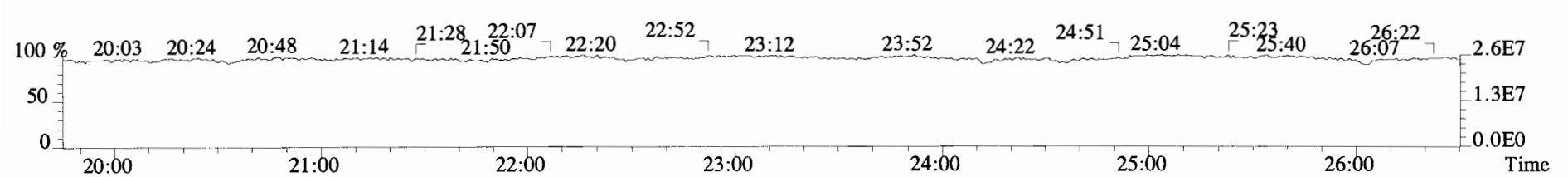
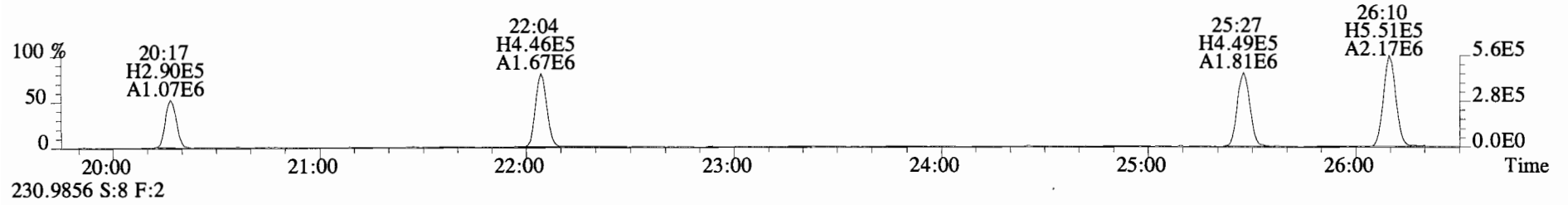
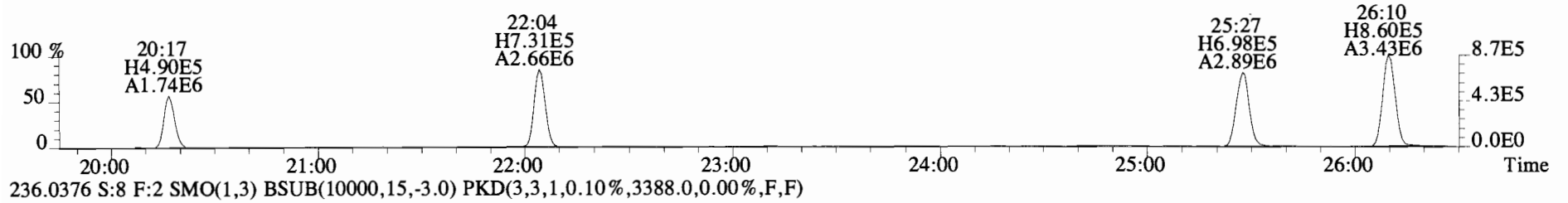
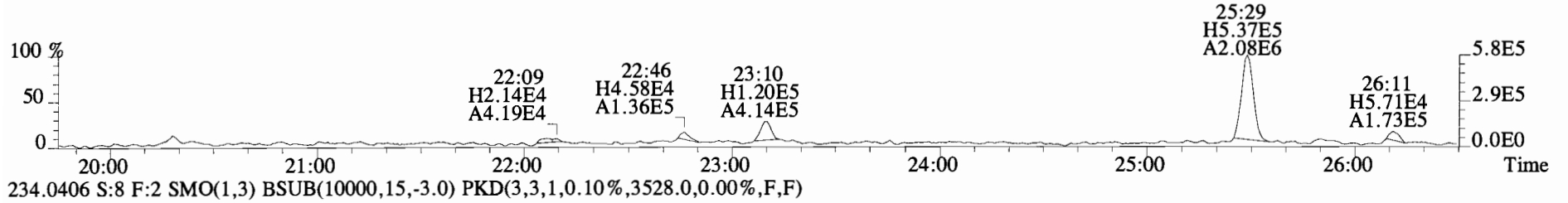
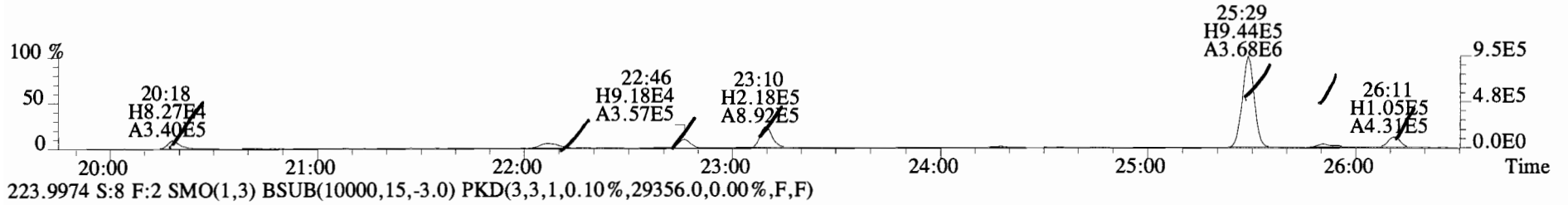
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
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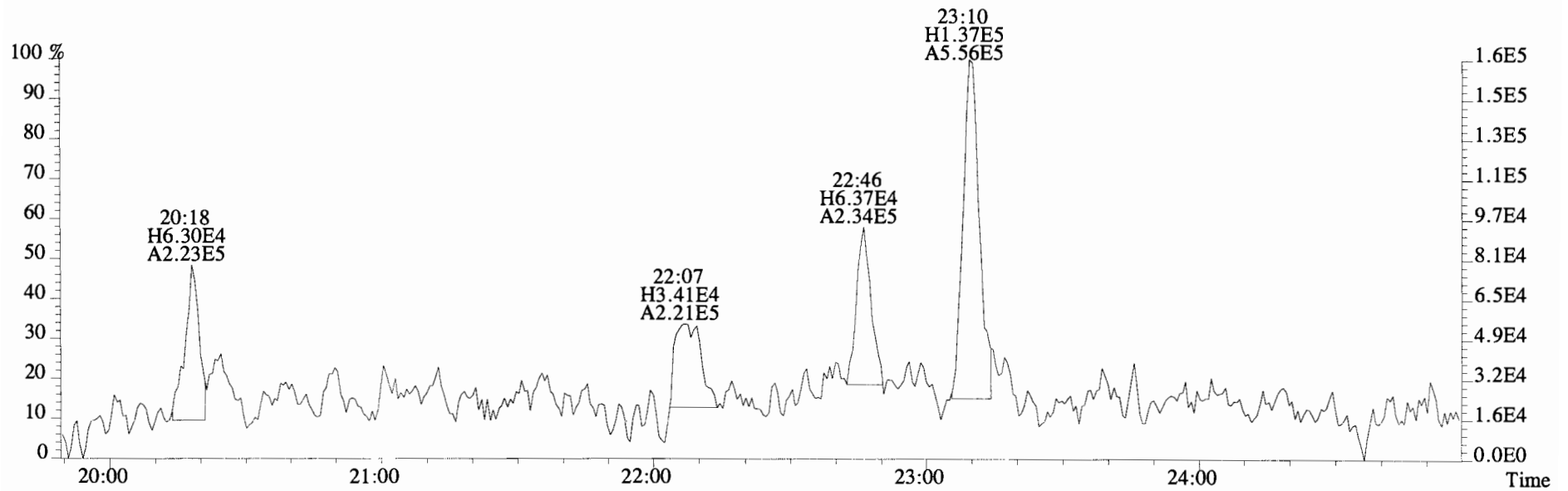
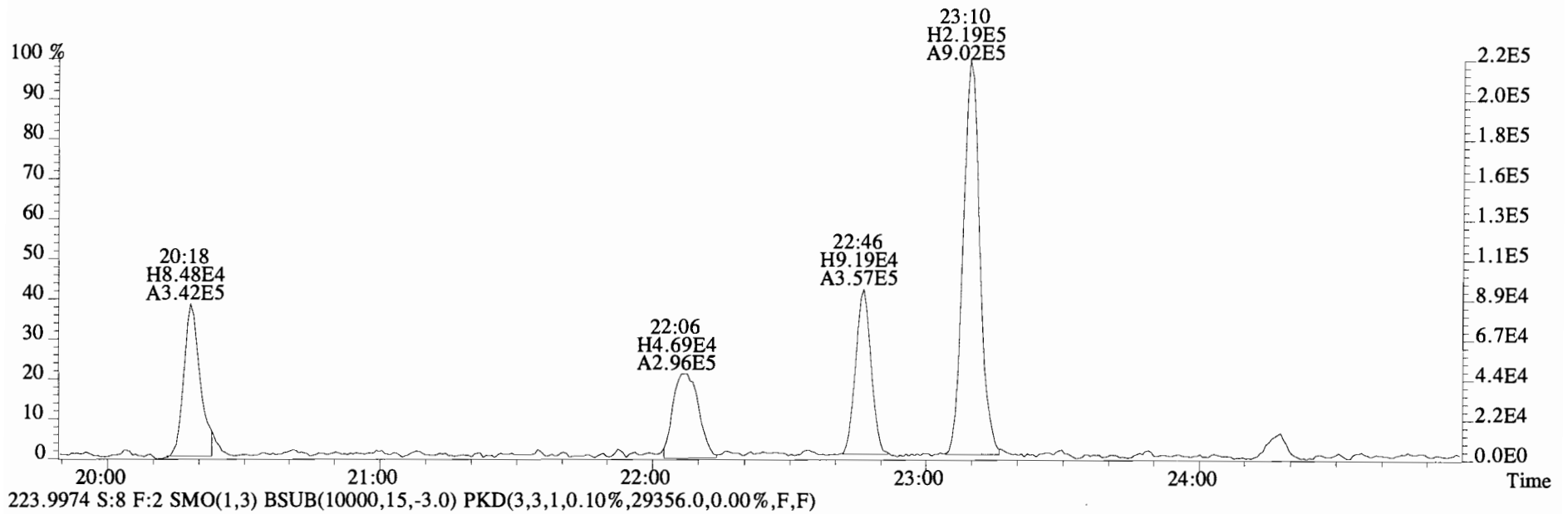
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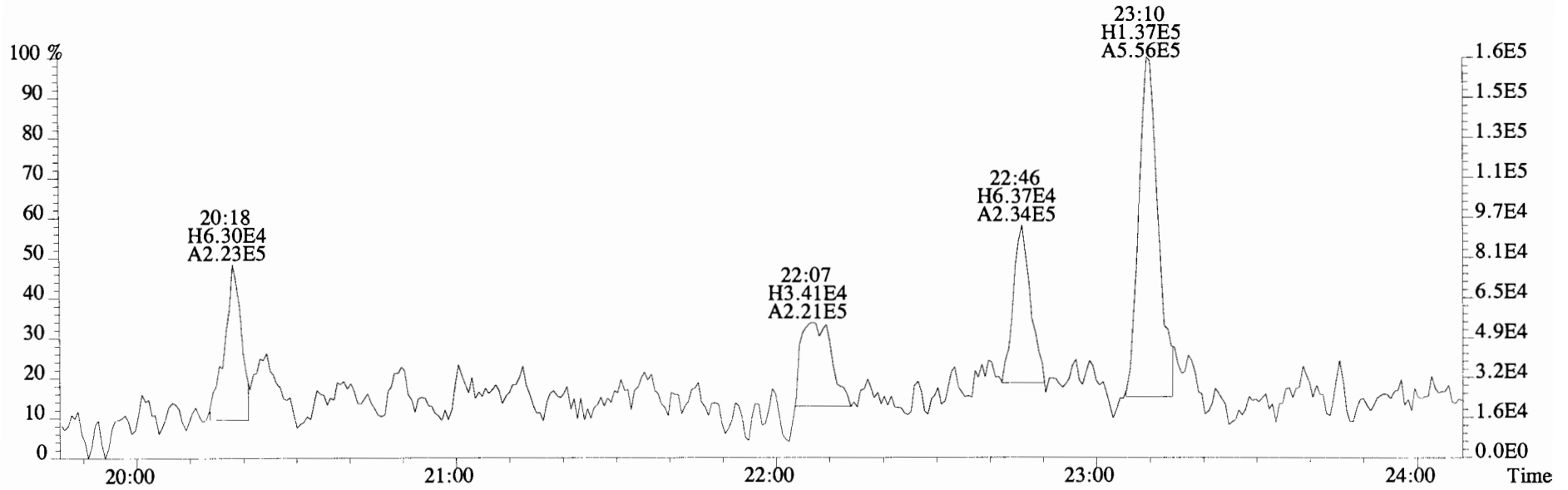
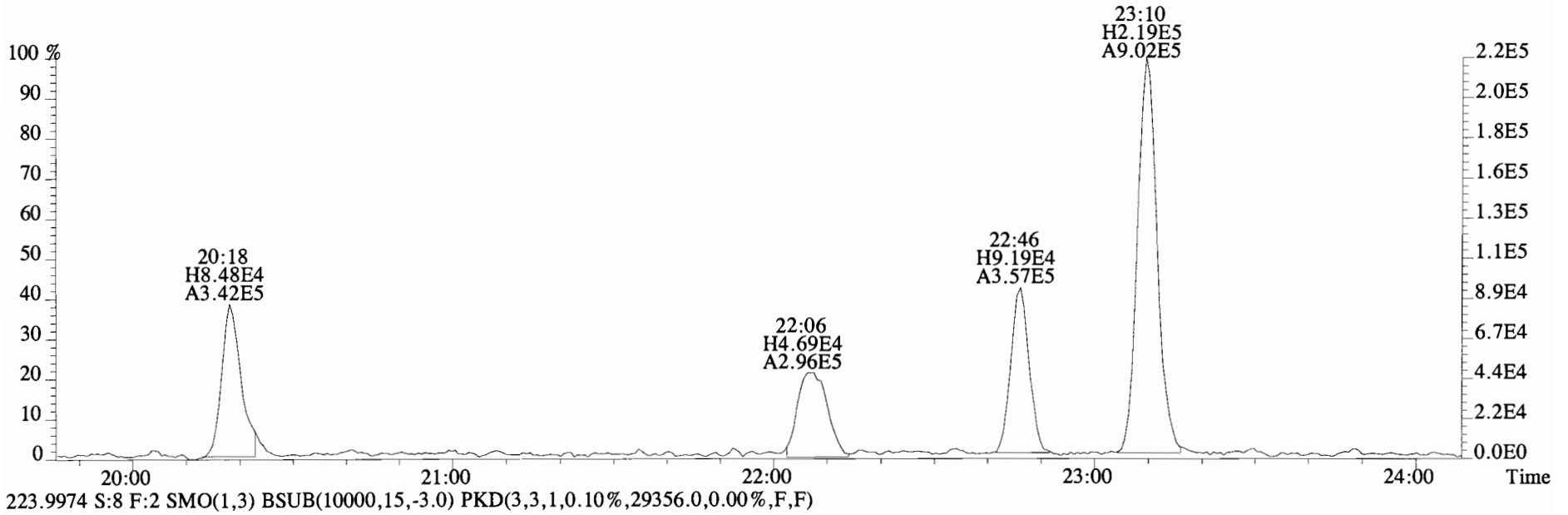
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3472.0,0.00%,F,F)



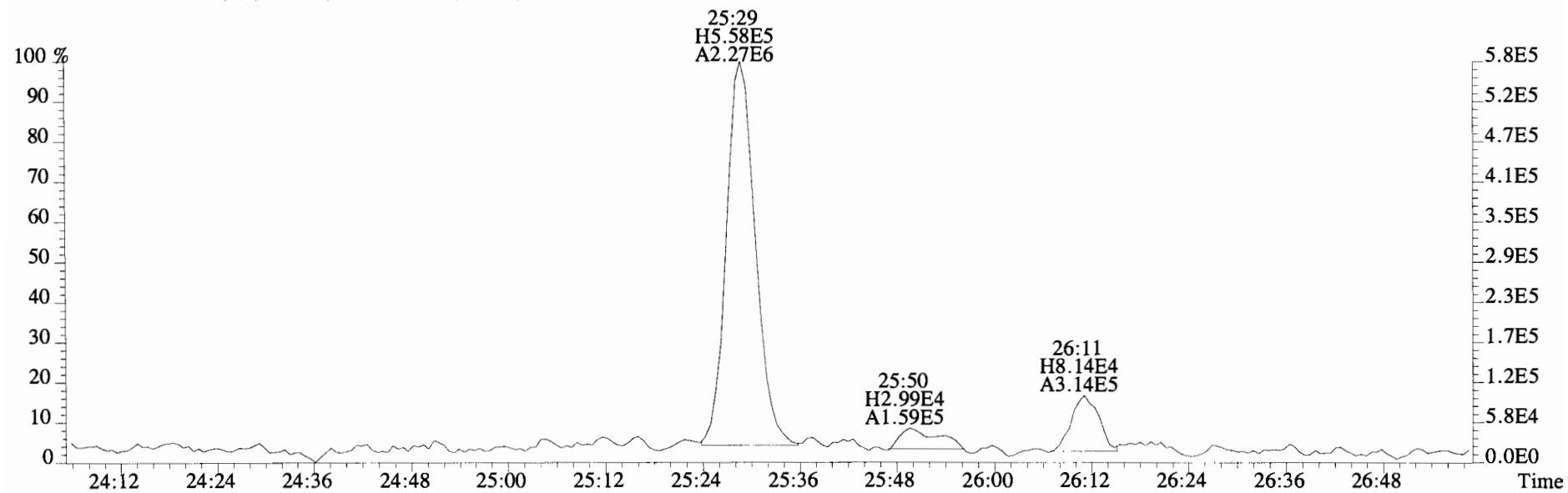
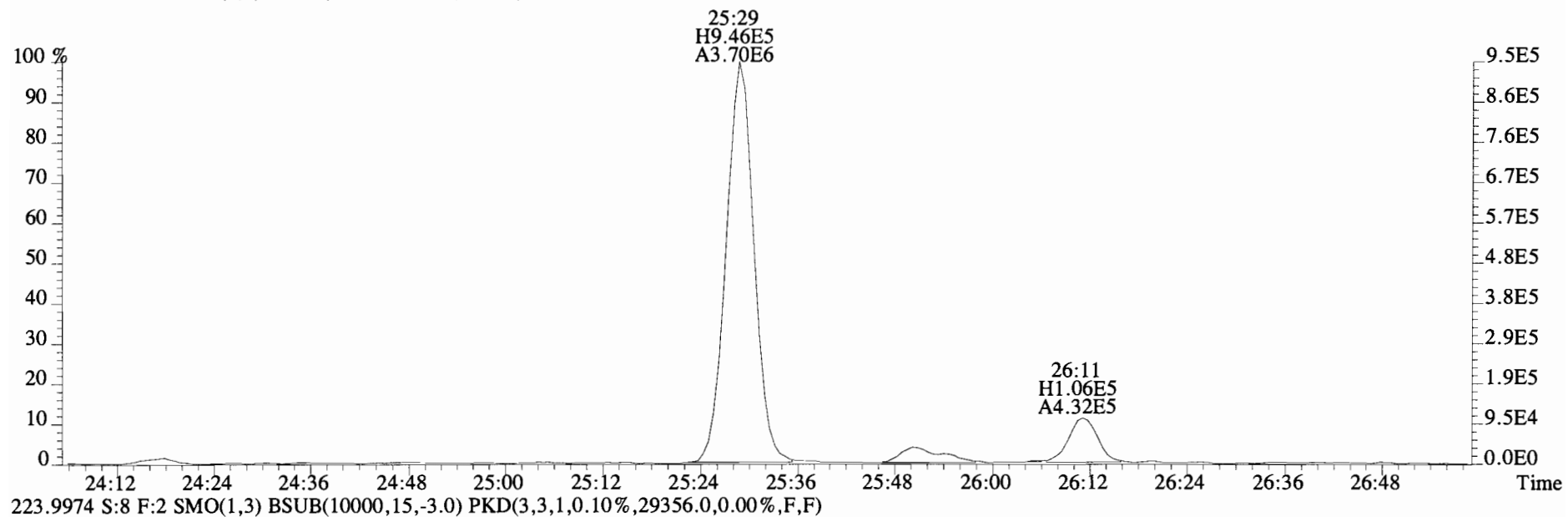
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3472.0,0.00%,F,F)



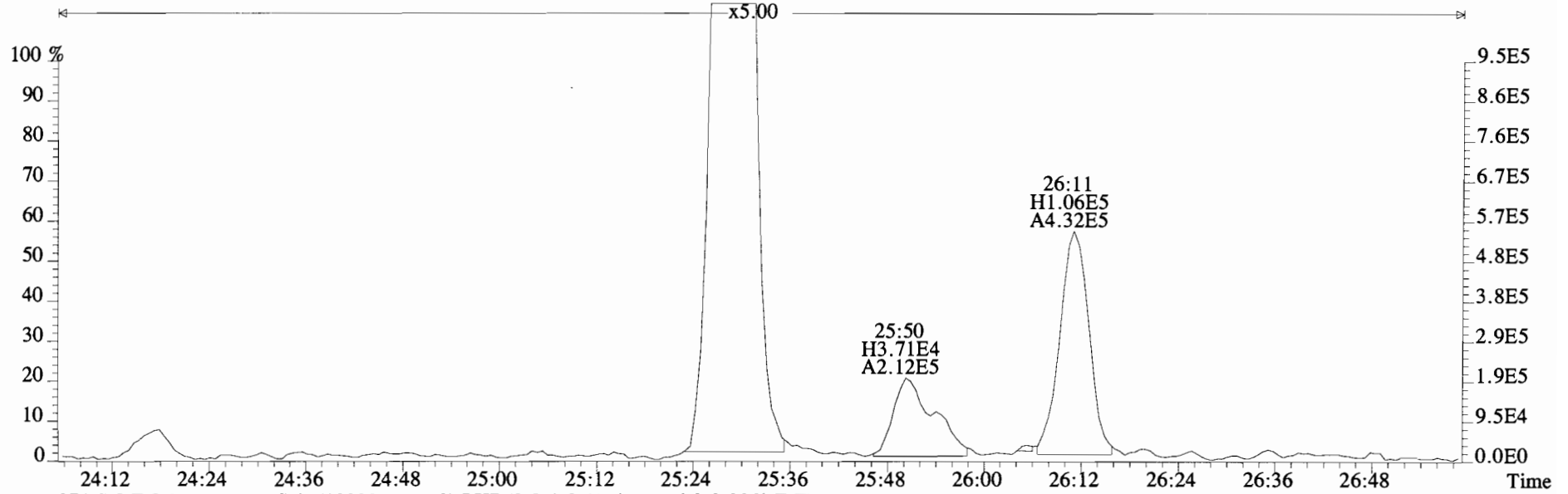
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3472.0,0.00%,F,F)



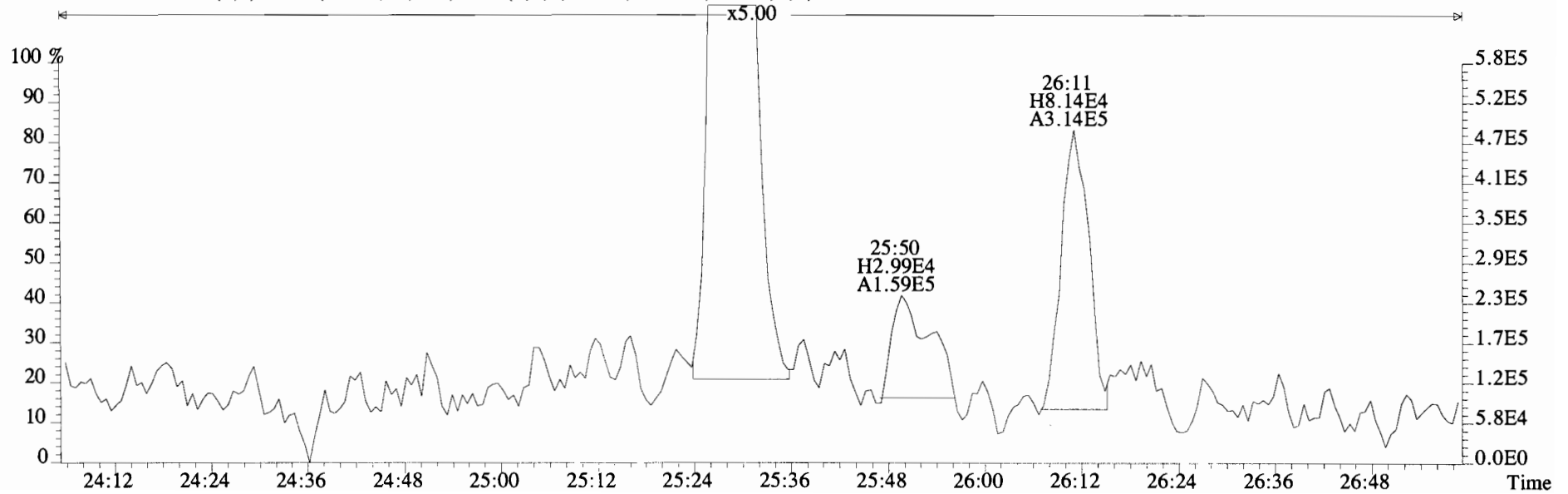
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3472.0,0.00%,F,F)



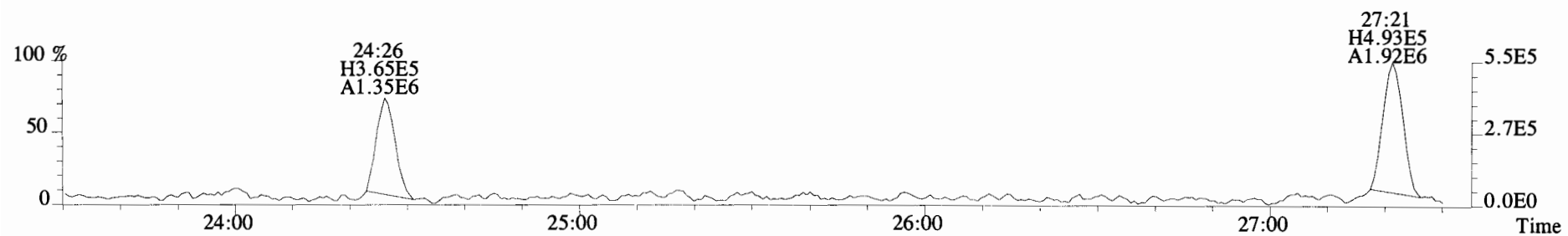
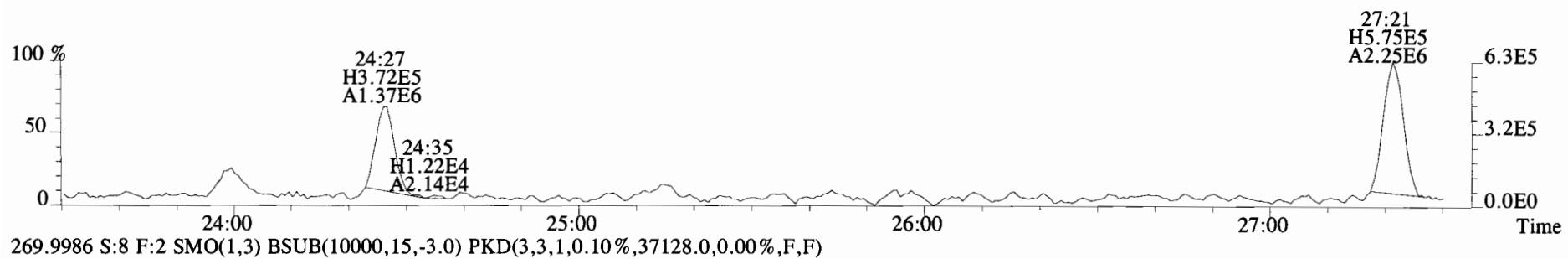
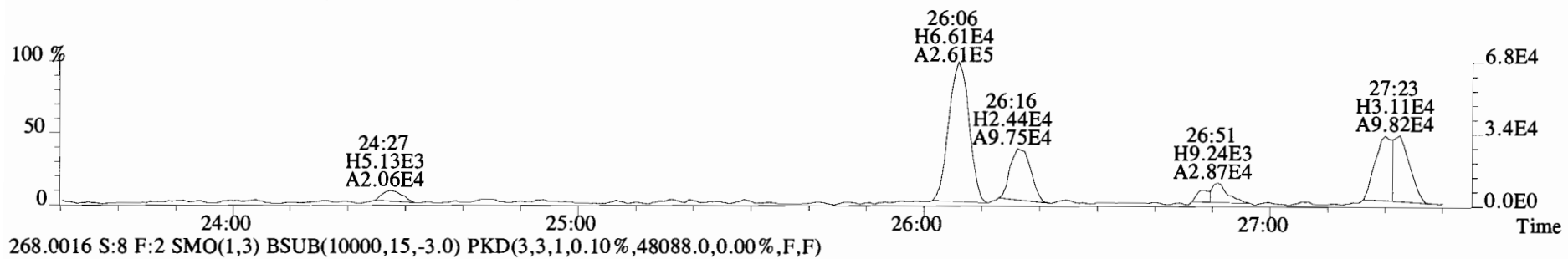
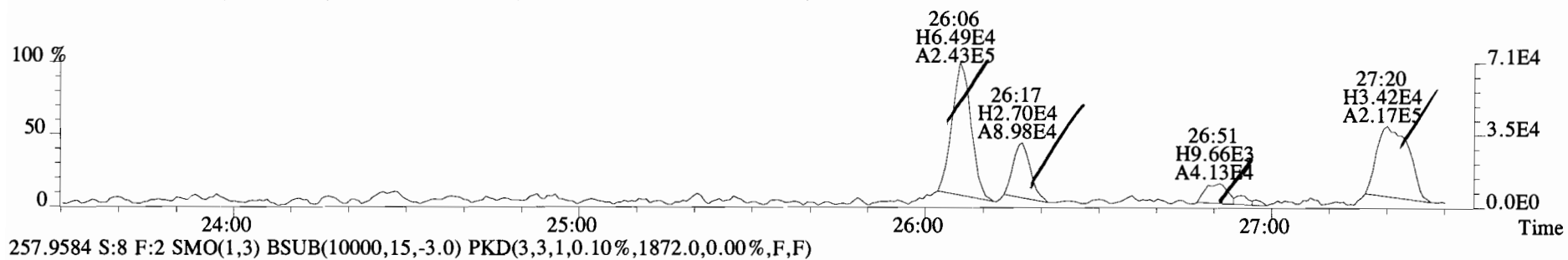
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3472.0,0.00%,F,F)



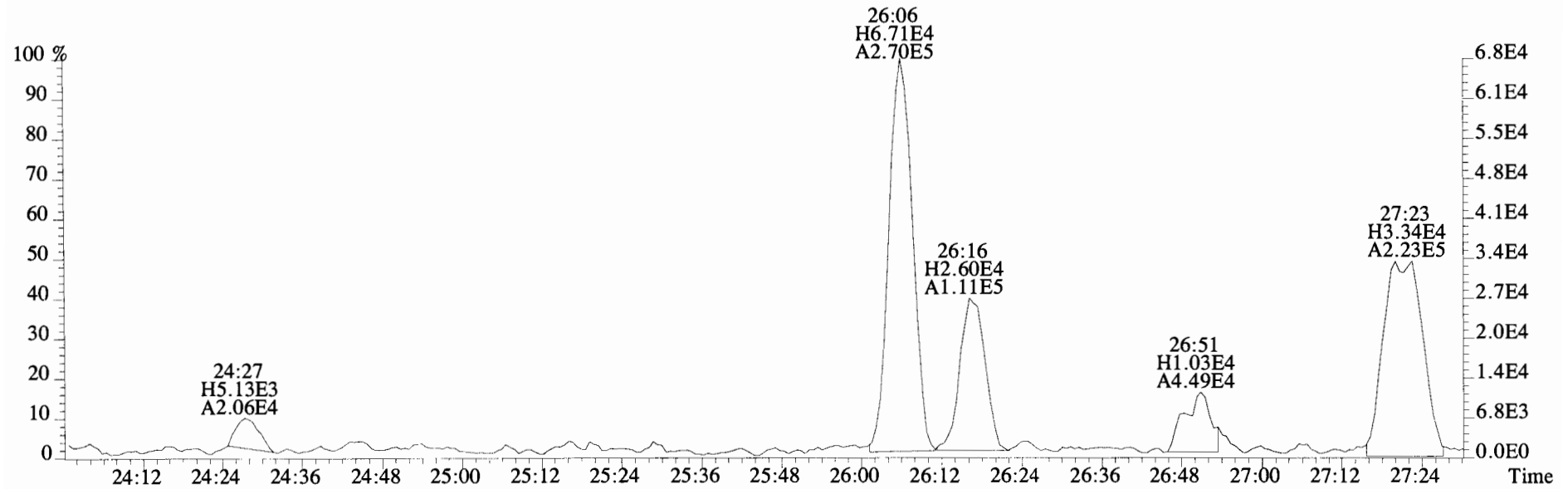
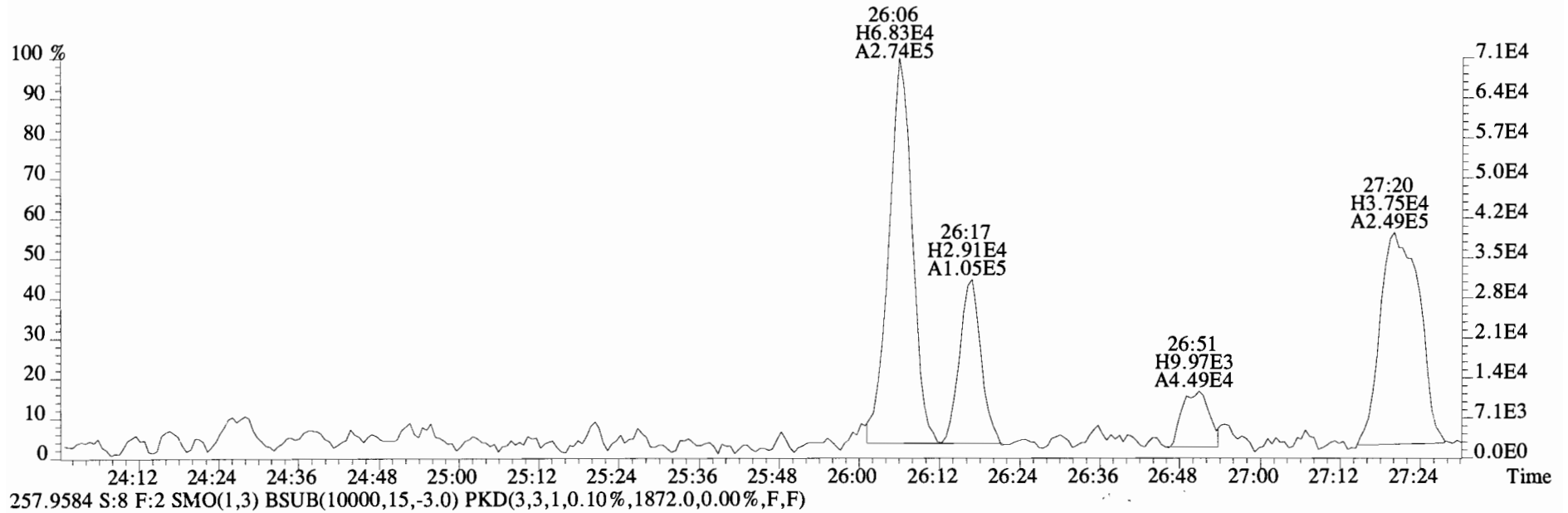
223.9974 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,29356.0,0.00%,F,F)



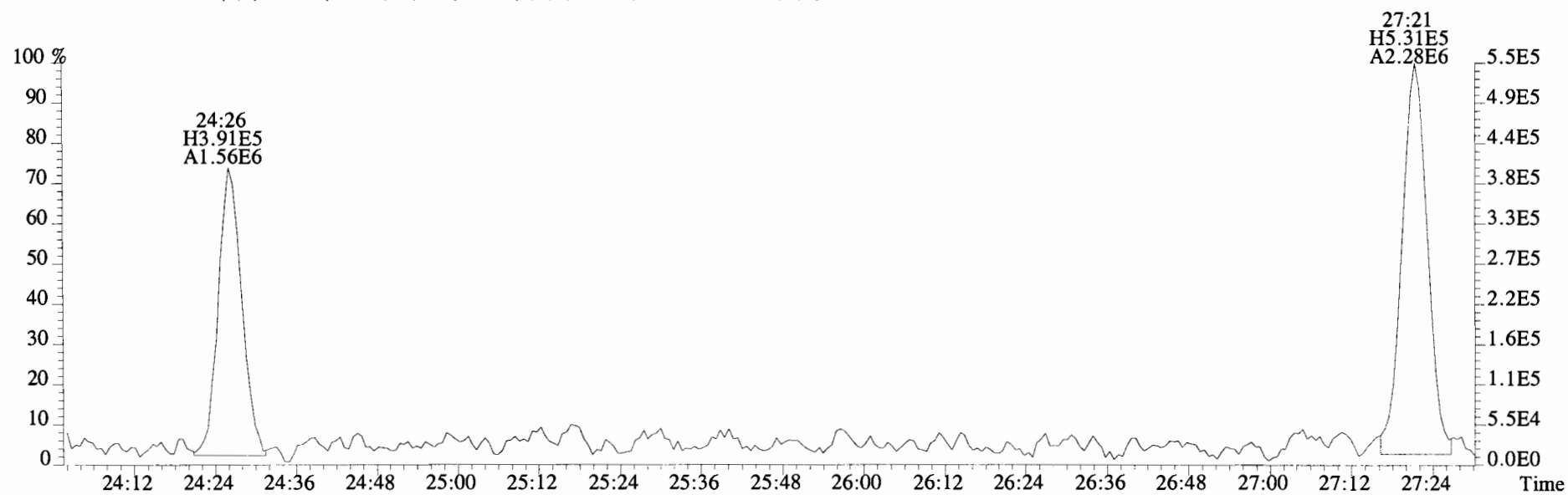
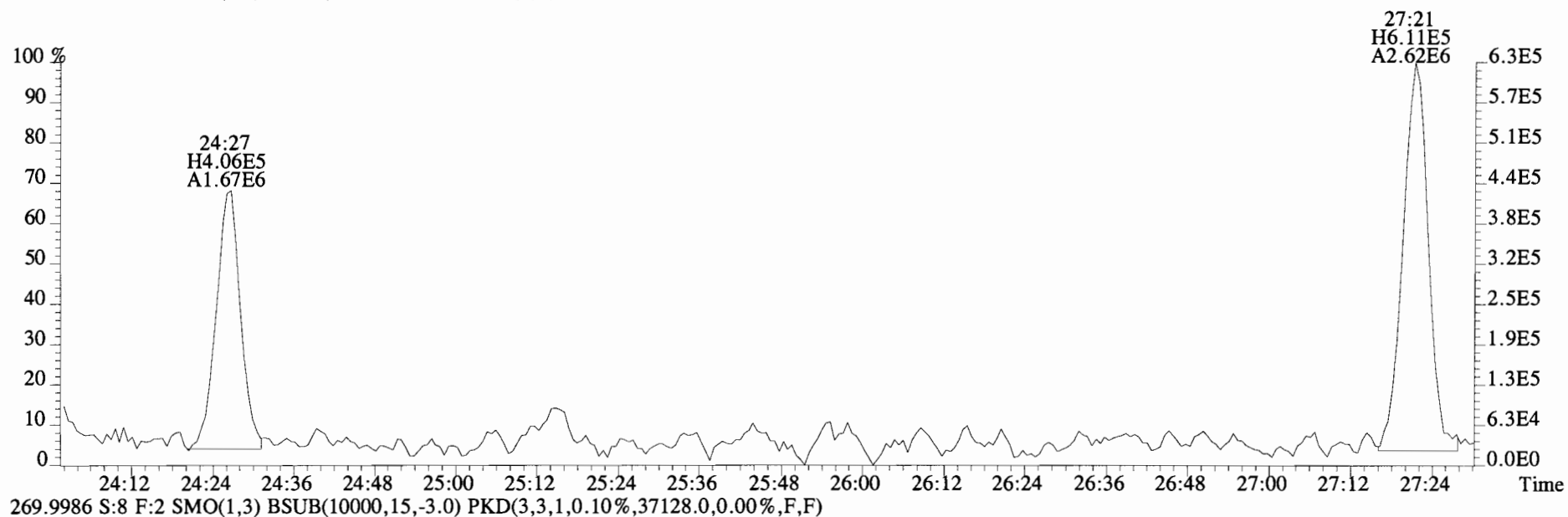
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
255.9613 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3760.0,0.00%,F,F)



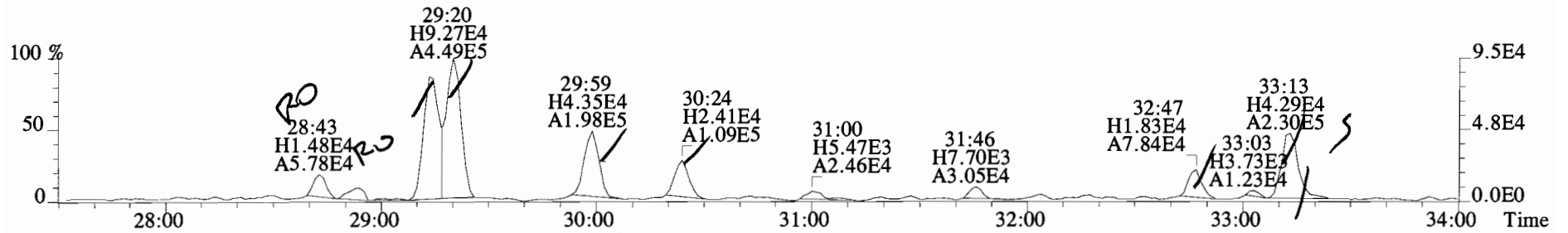
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
255.9613 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3760.0,0.00%,F,F)



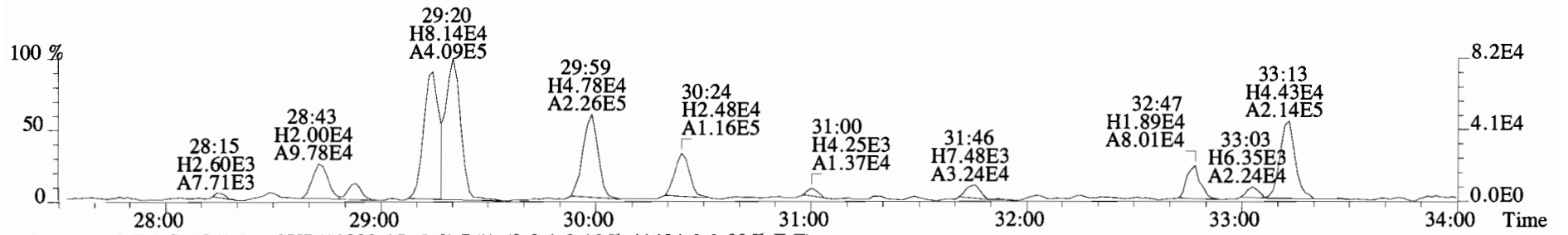
File:140919E2 #1-757 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
268.0016 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,48088.0,0.00%,F,F)



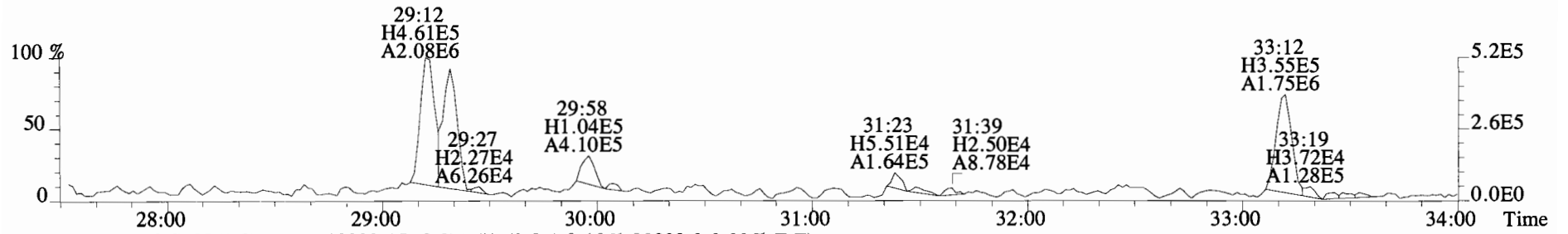
File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
 255.9613 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2448.0,0.00%,F,F)



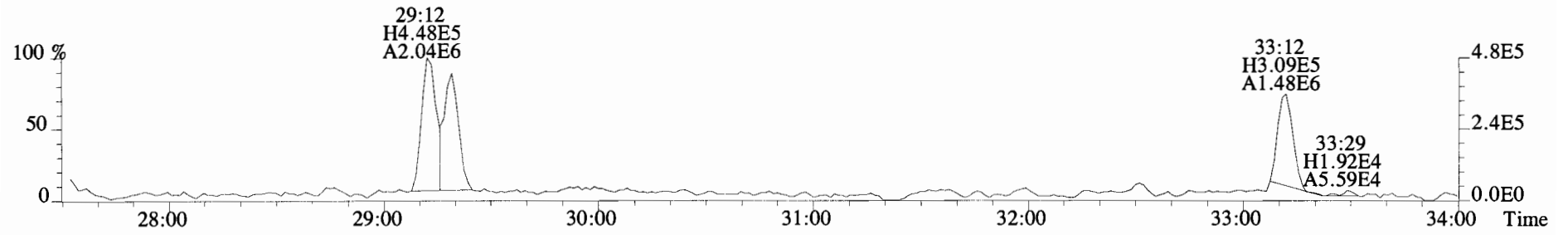
257.9584 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2224.0,0.00%,F,F)



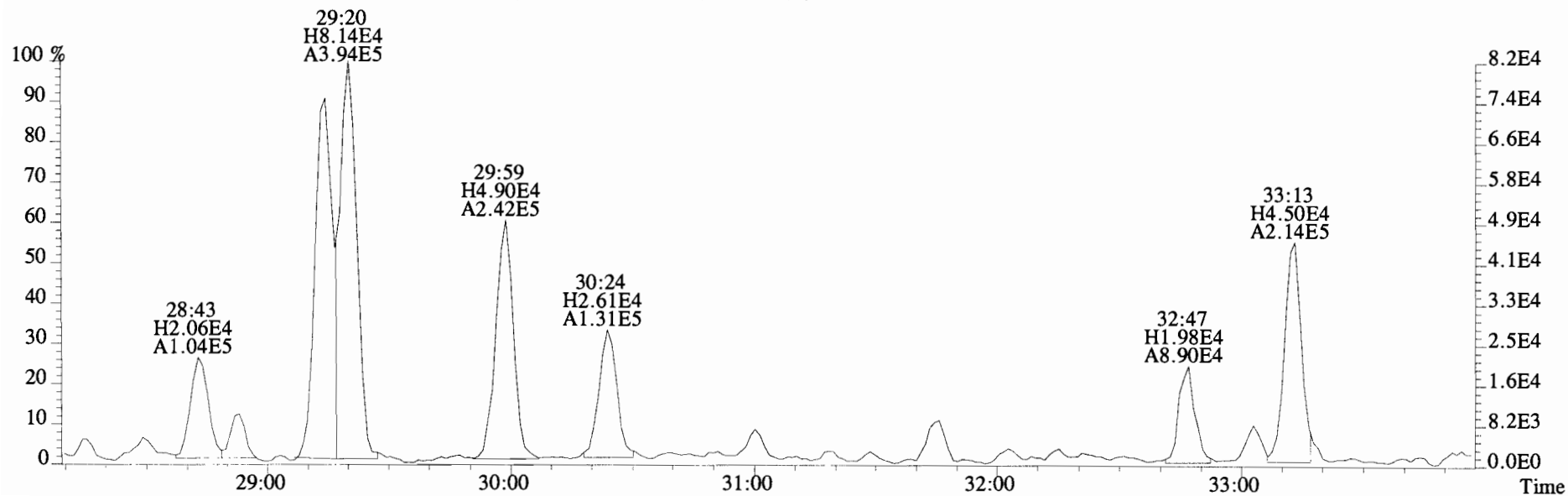
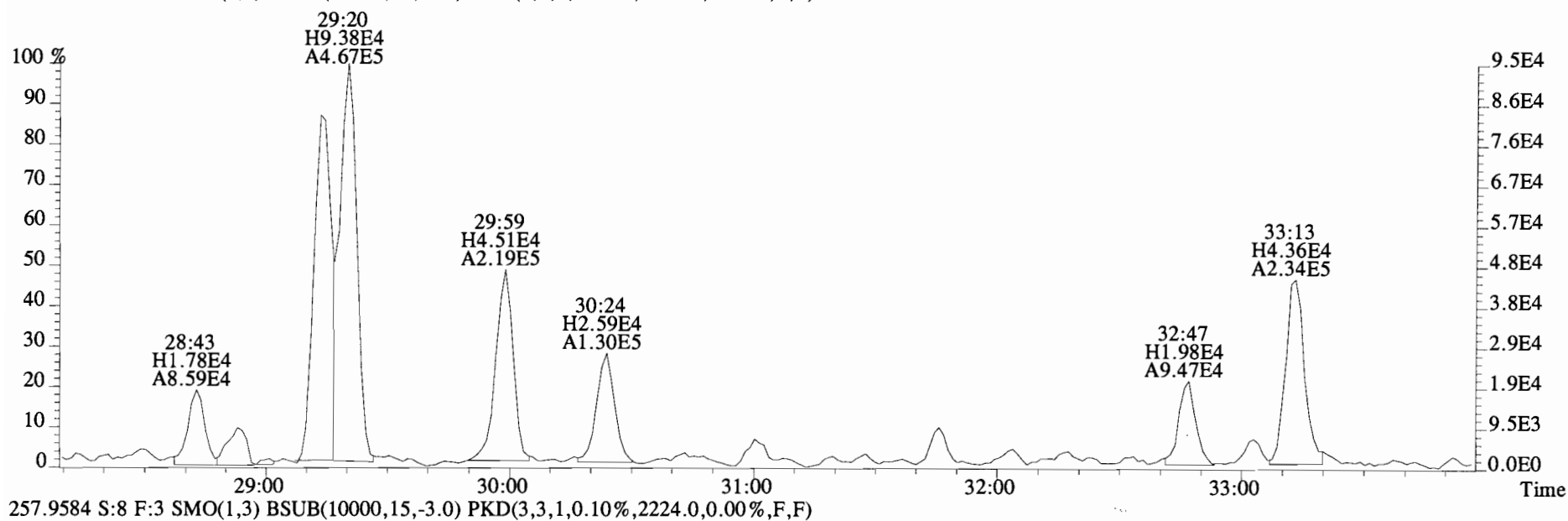
268.0016 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41424.0,0.00%,F,F)



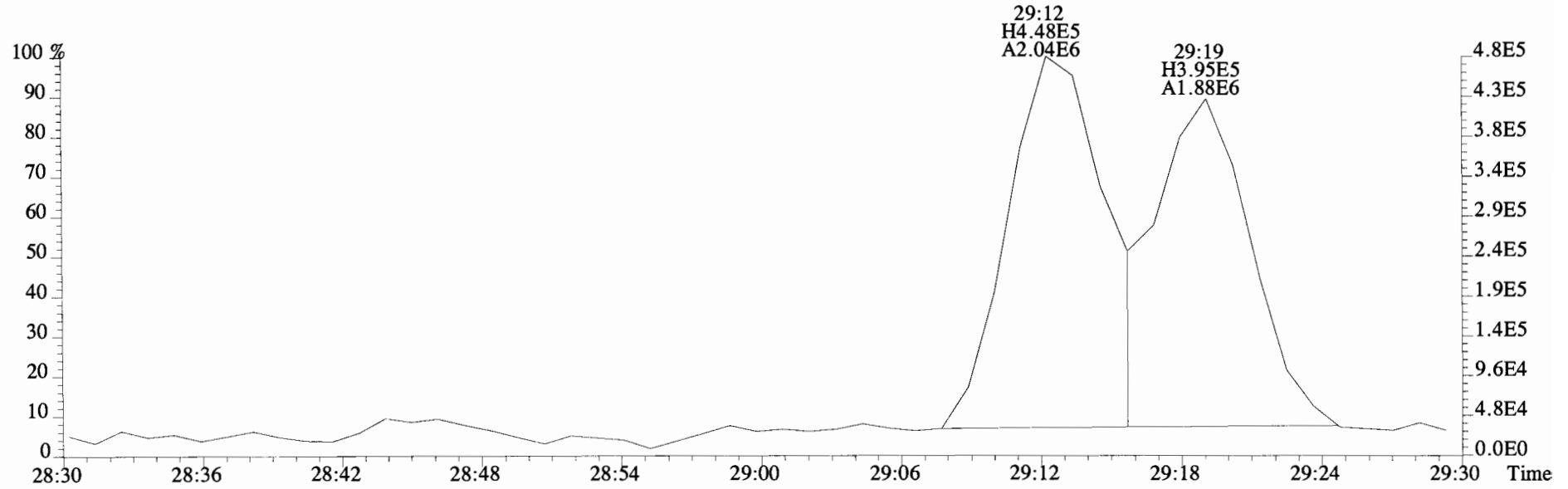
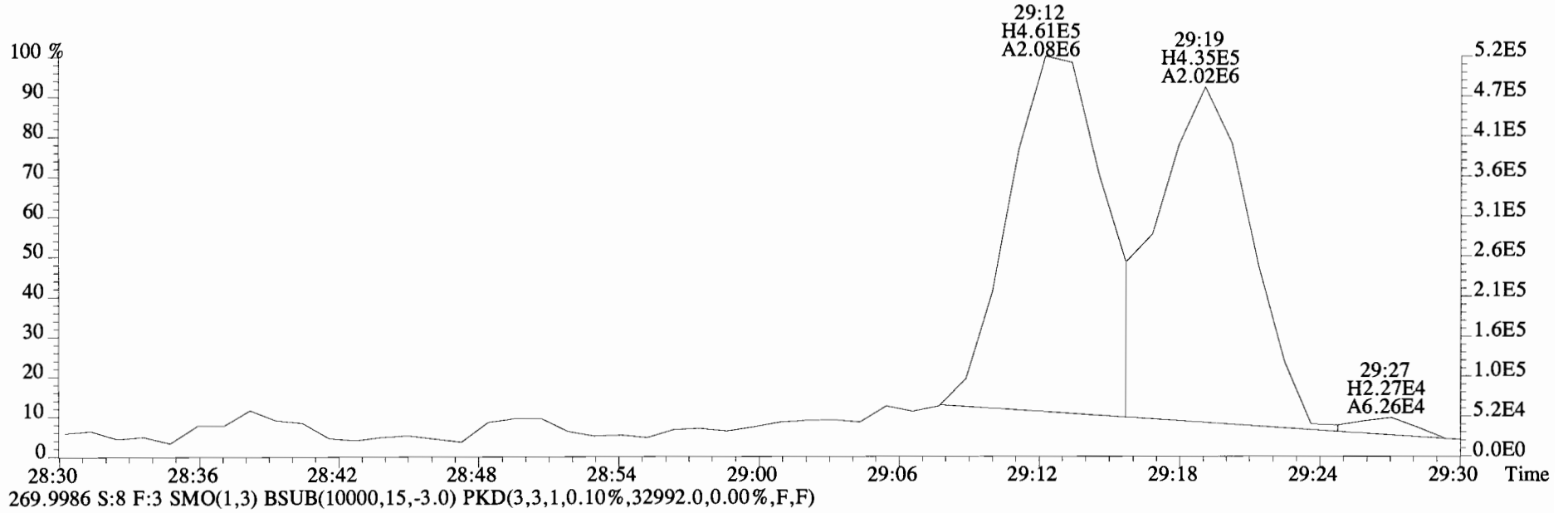
269.9986 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,32992.0,0.00%,F,F)



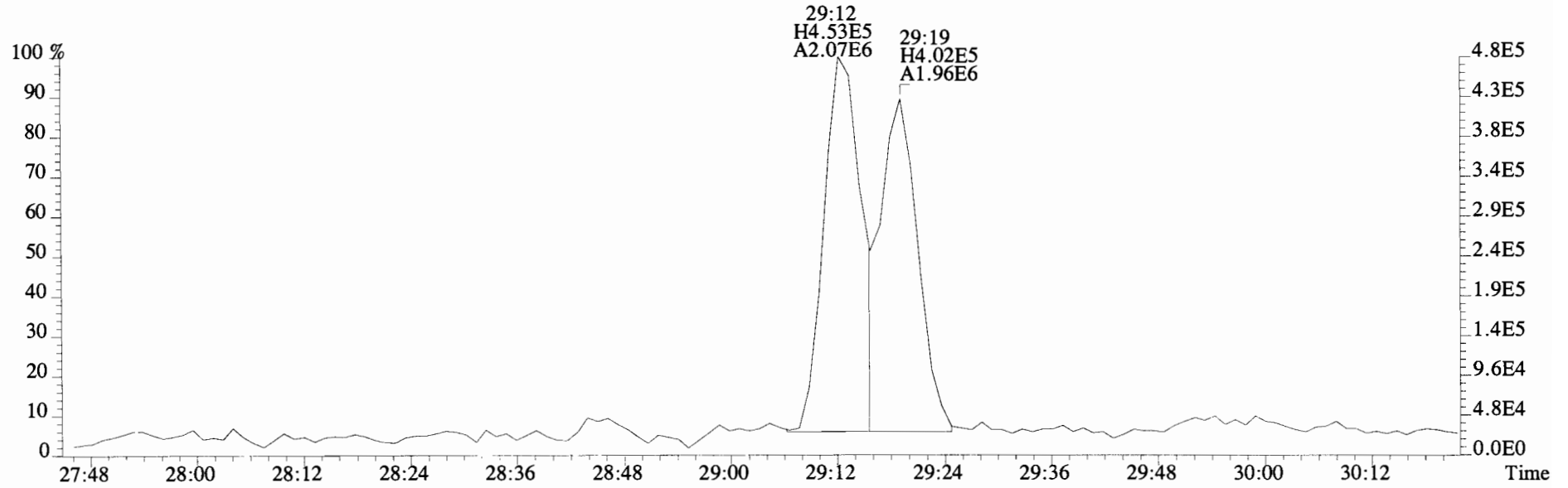
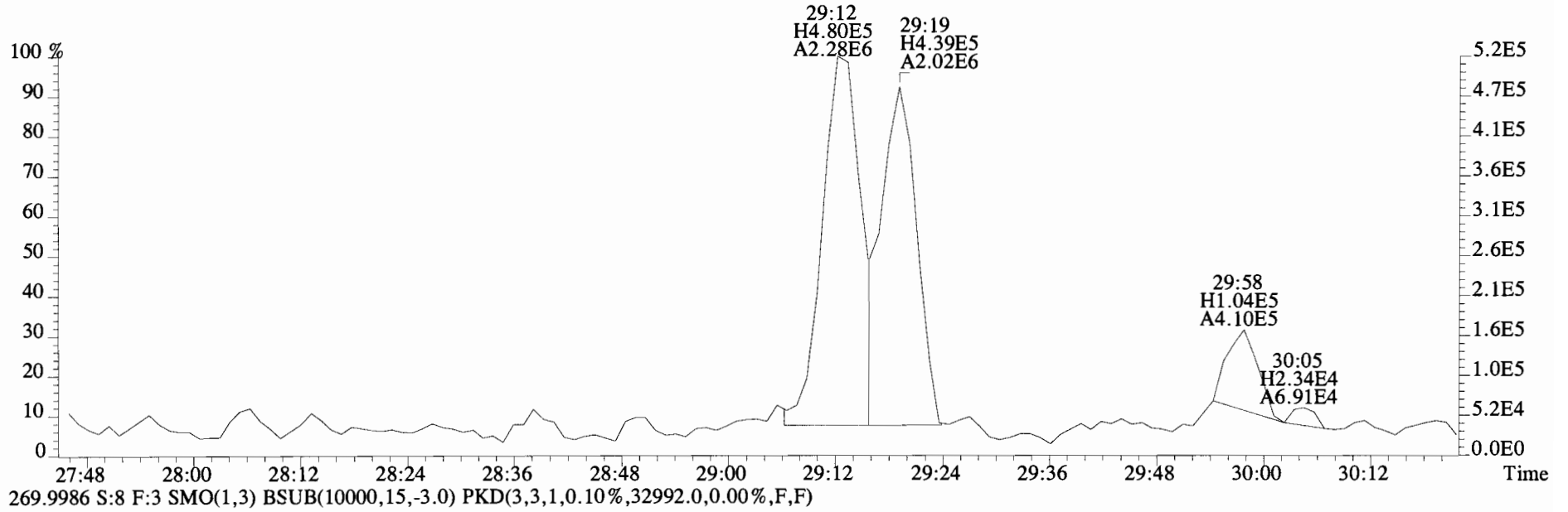
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 Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
 255.9613 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2448.0,0.00%,F,F)



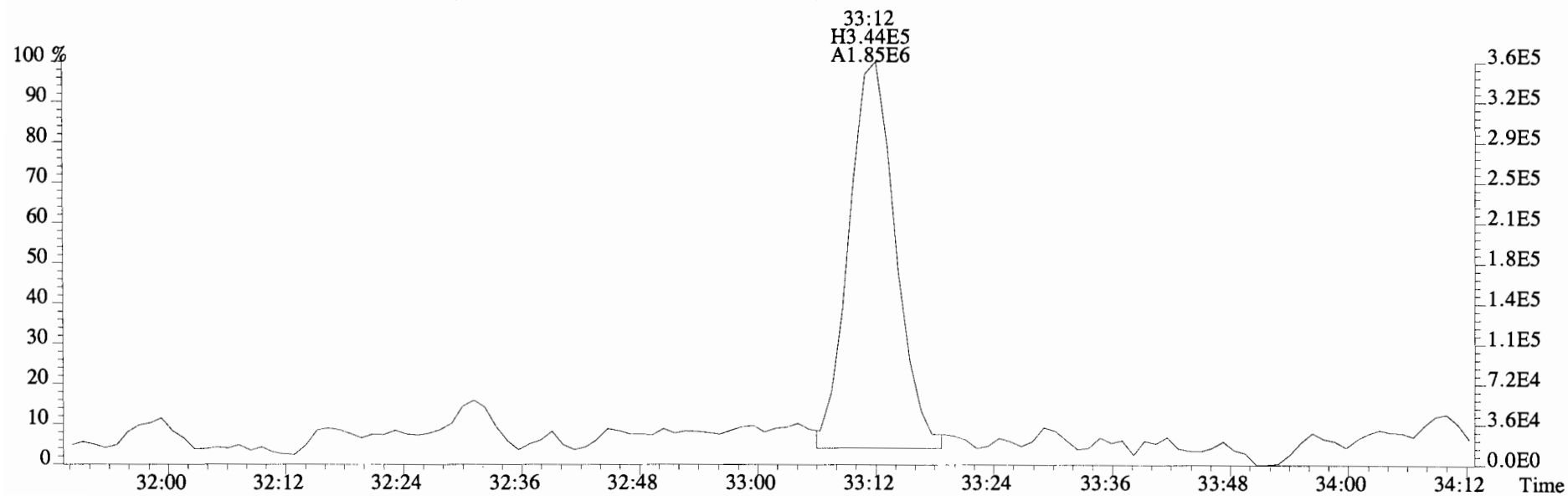
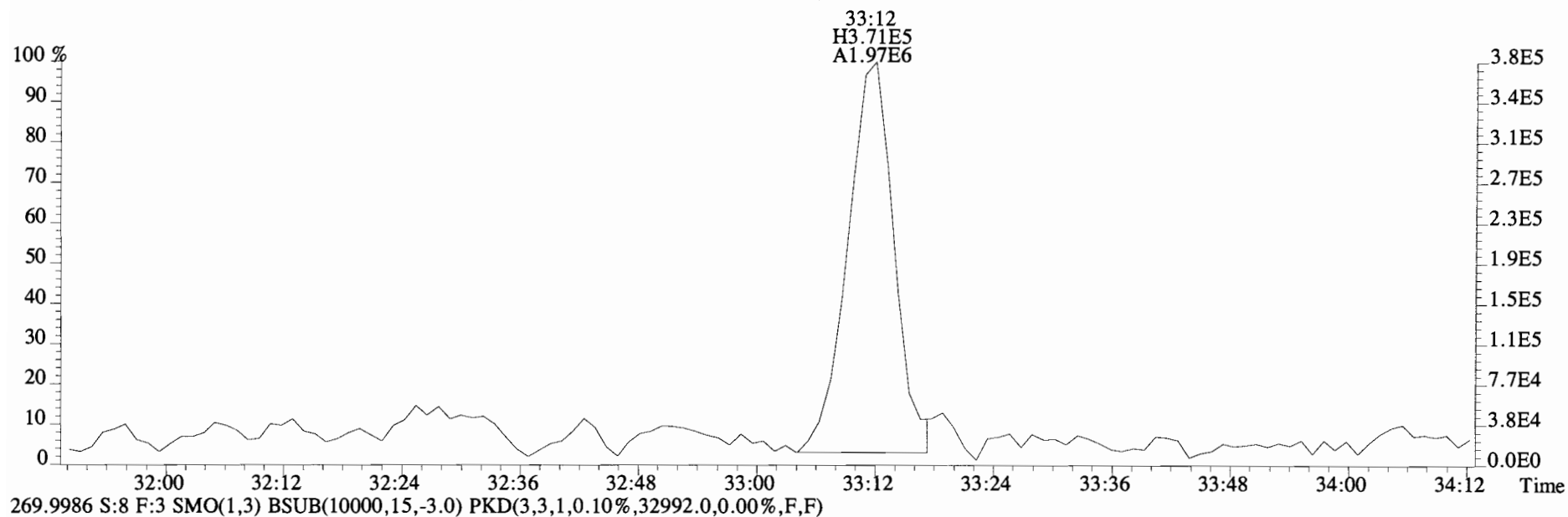
File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
268.0016 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41424.0,0.00%,F,F)



File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
268.0016 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41424.0,0.00%,F,F)

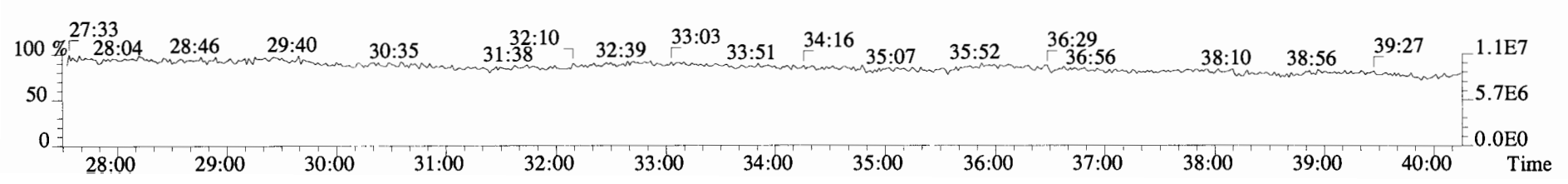
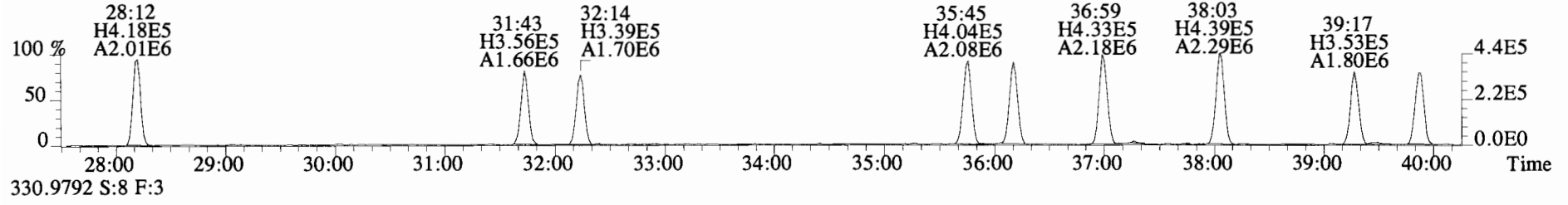
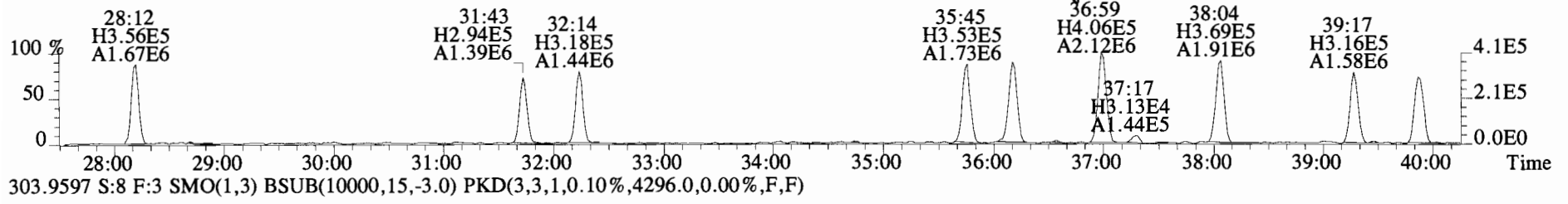
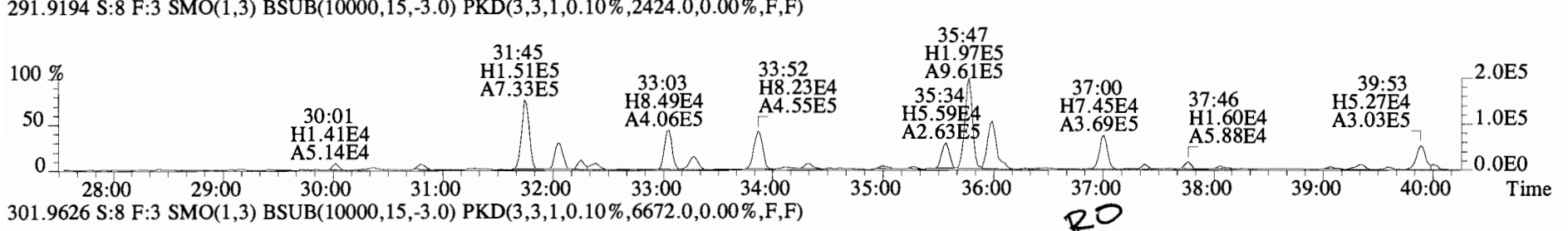
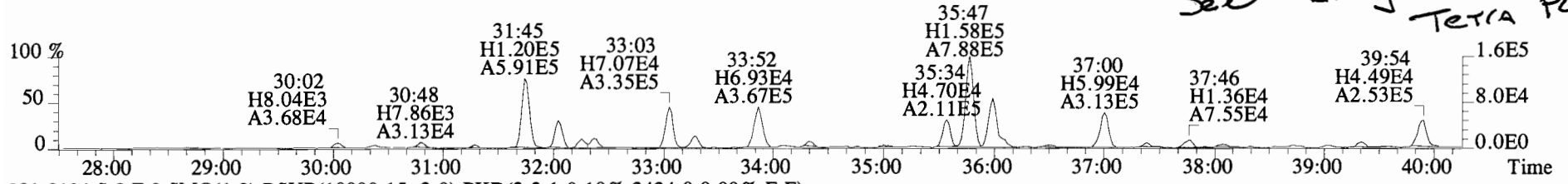


File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
268.0016 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41424.0,0.00%,F,F)

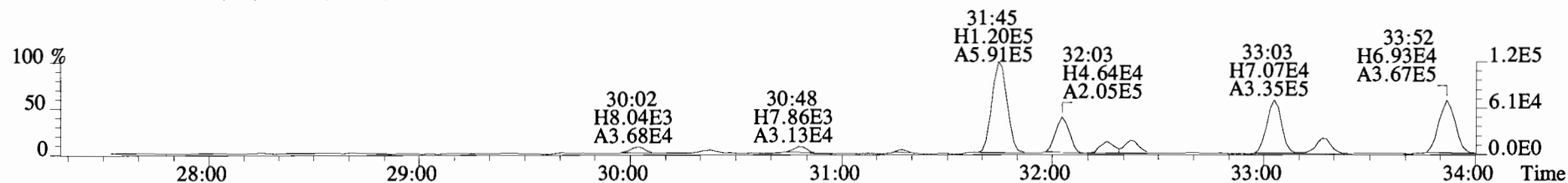


File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
 289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2320.0,0.00%,F,F)

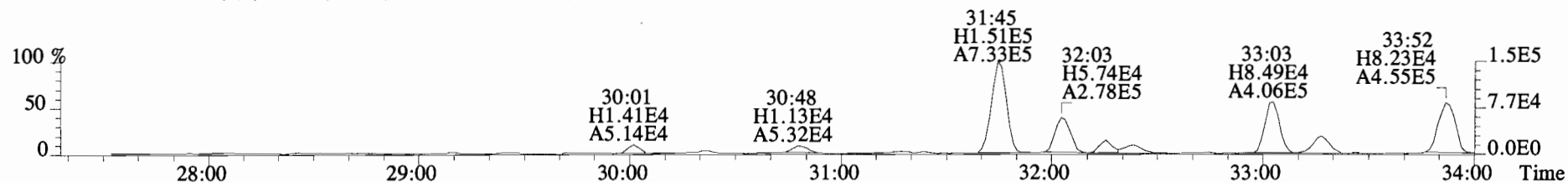
*See Reinjection for
Tetra PCB's*



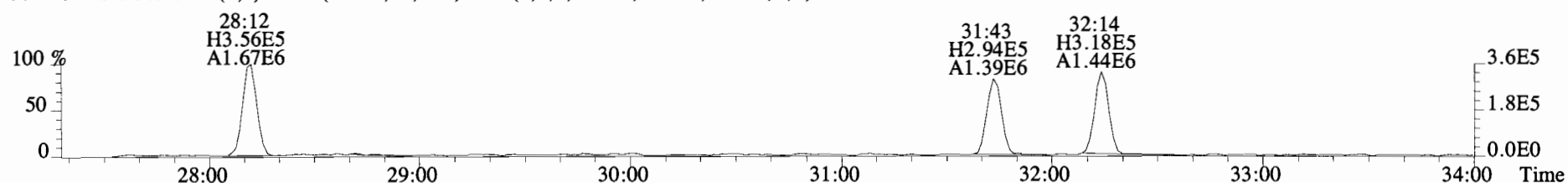
File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2320.0,0.00%,F,F)



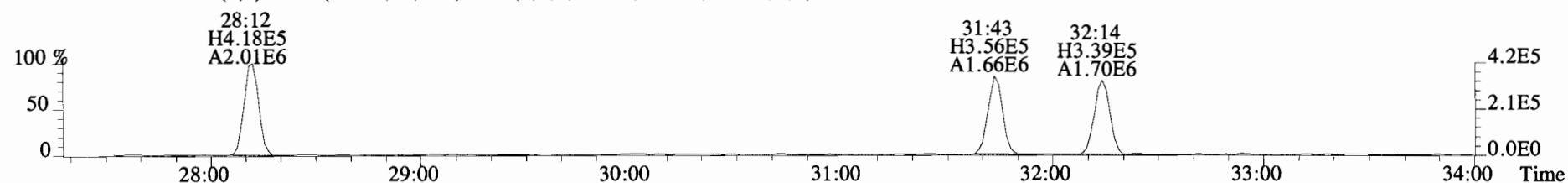
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2424.0,0.00%,F,F)



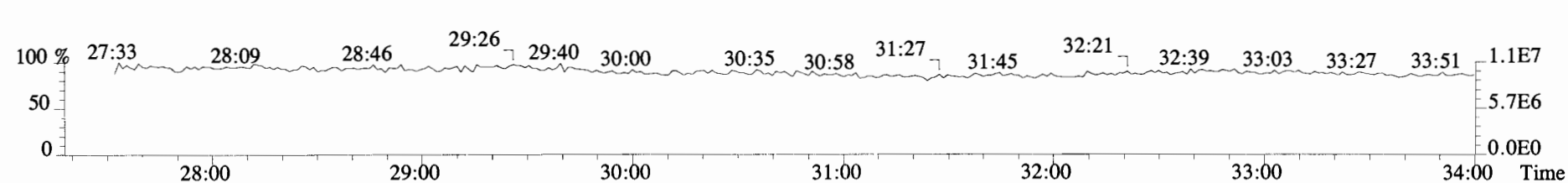
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6672.0,0.00%,F,F)



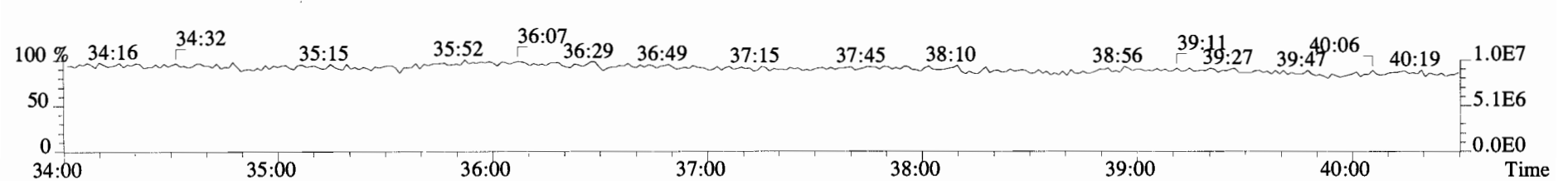
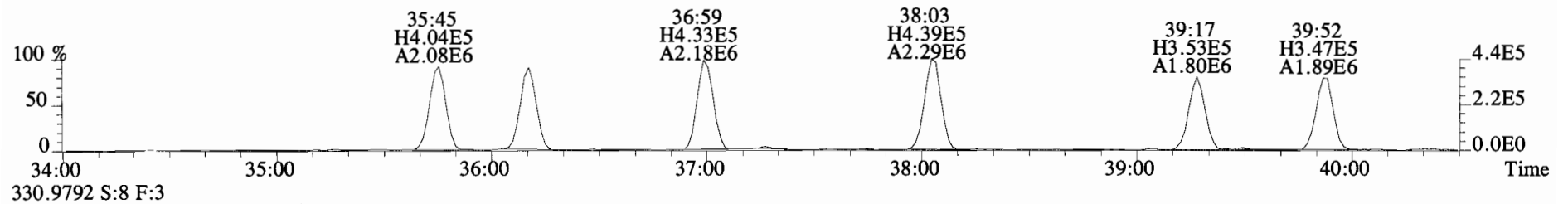
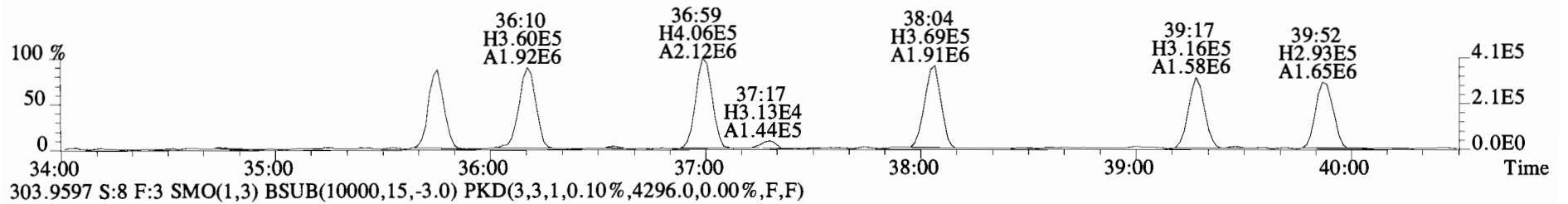
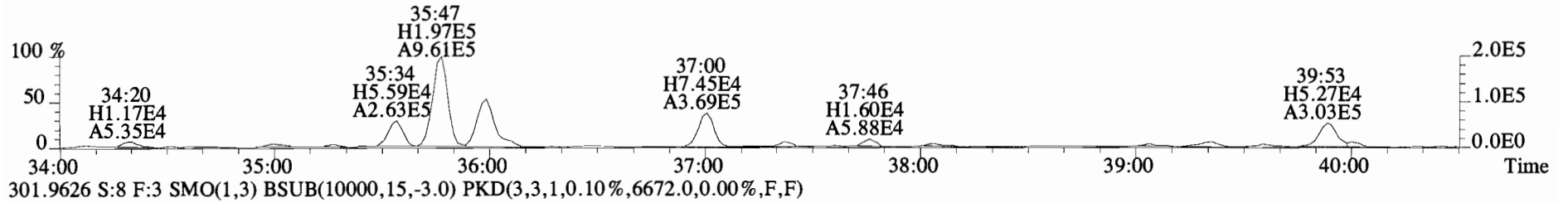
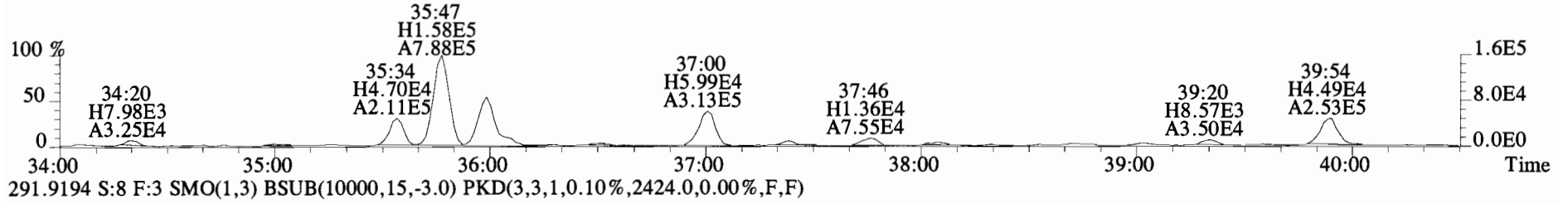
303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4296.0,0.00%,F,F)



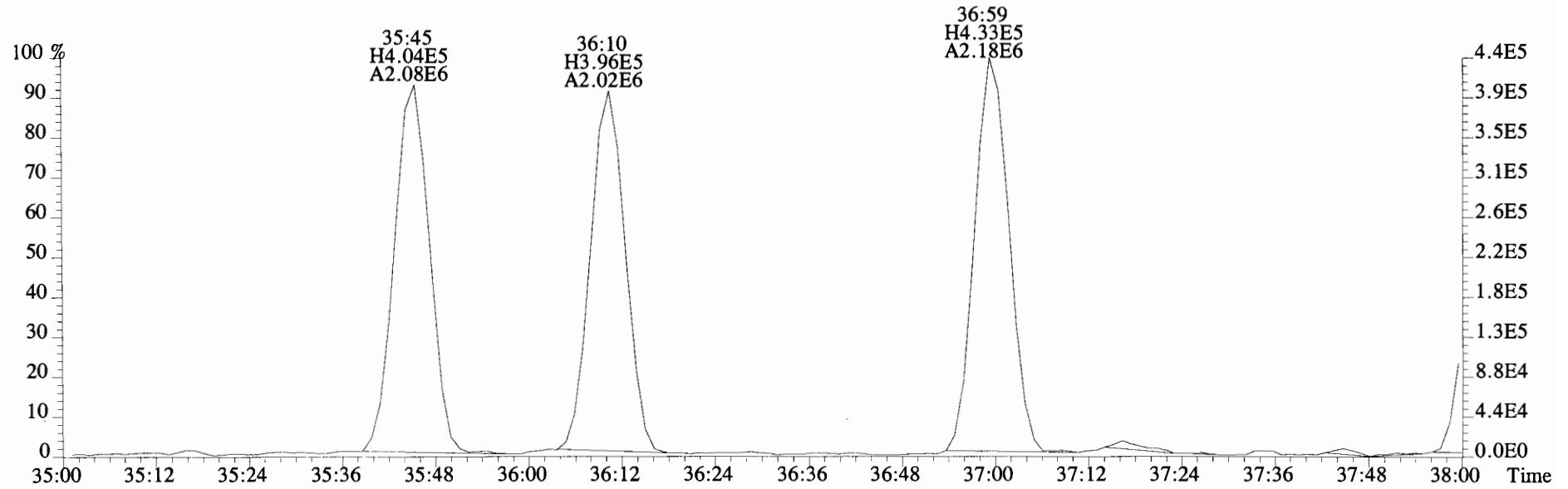
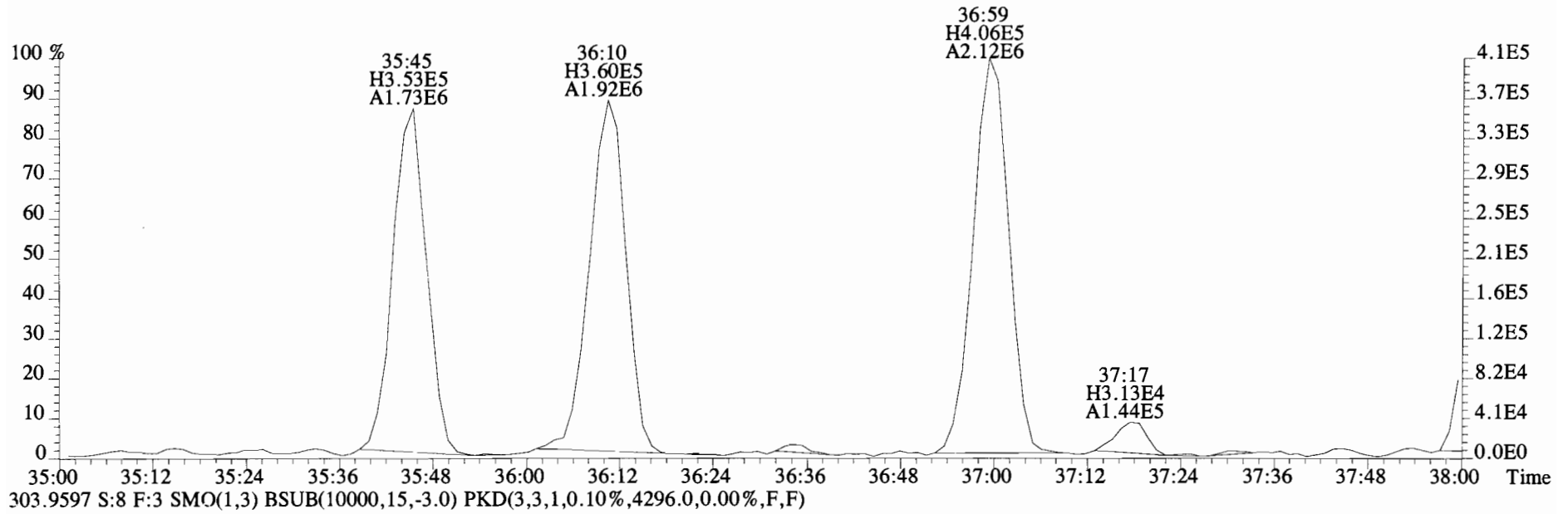
330.9792 S:8 F:3



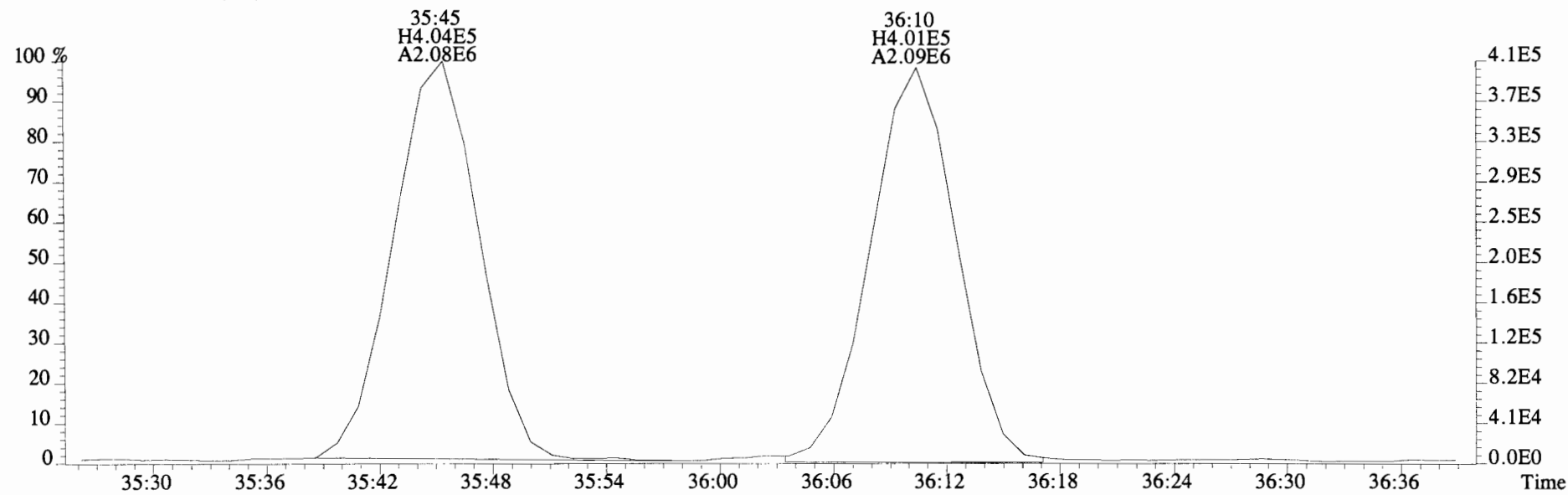
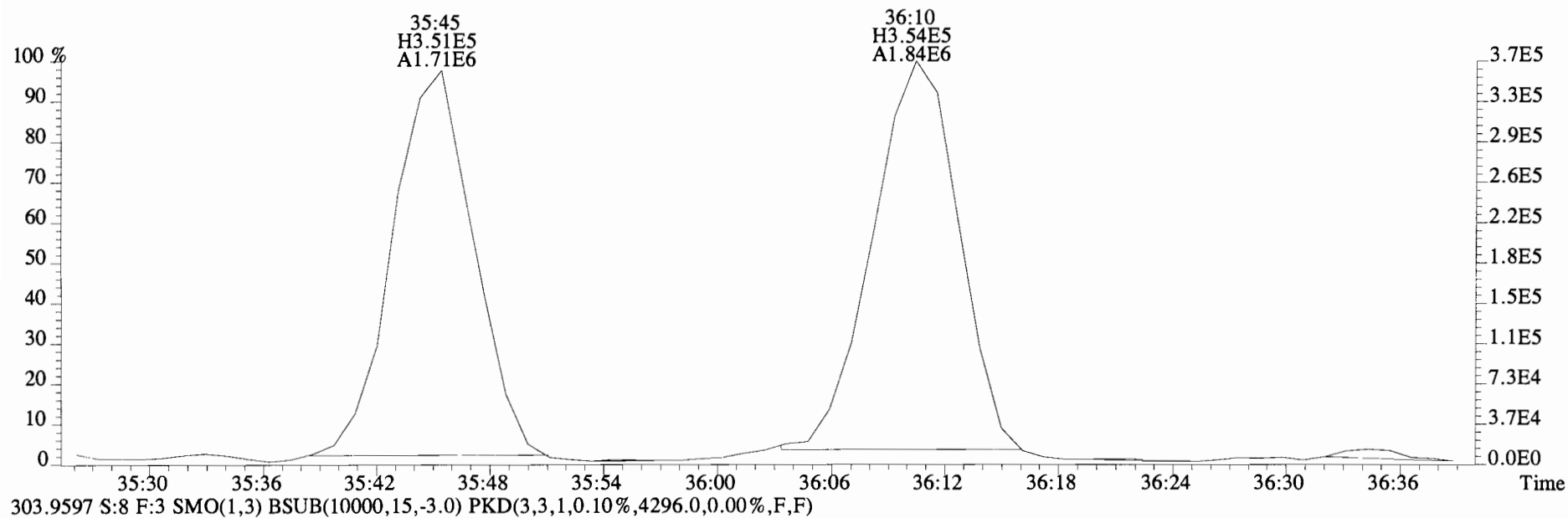
File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2320.0,0.00%,F,F)



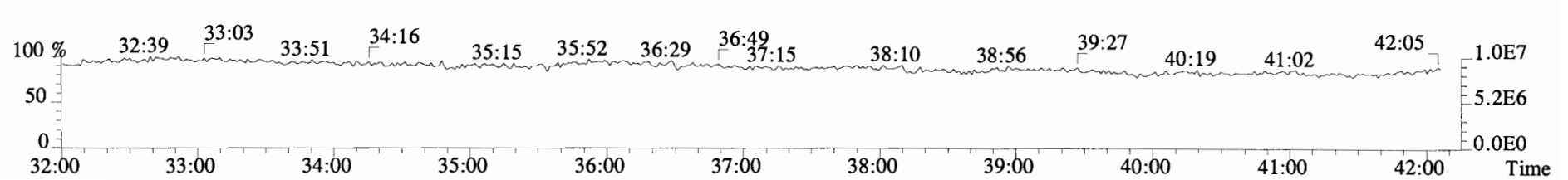
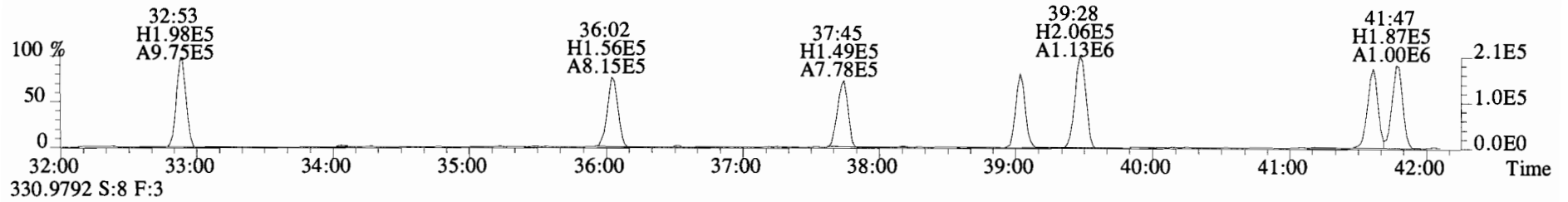
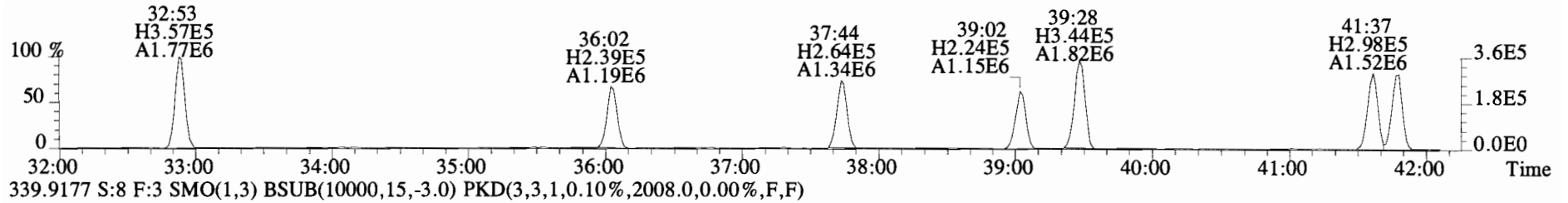
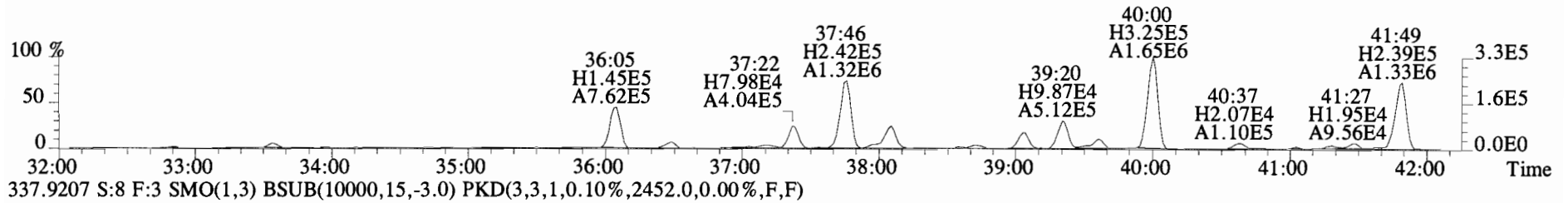
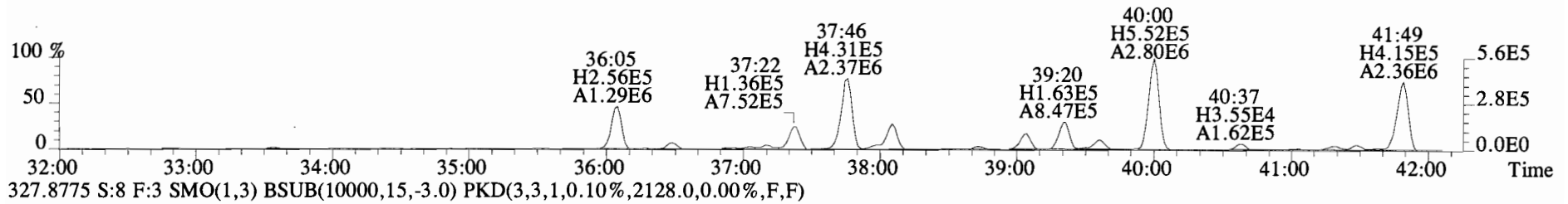
File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6672.0,0.00%,F,F)



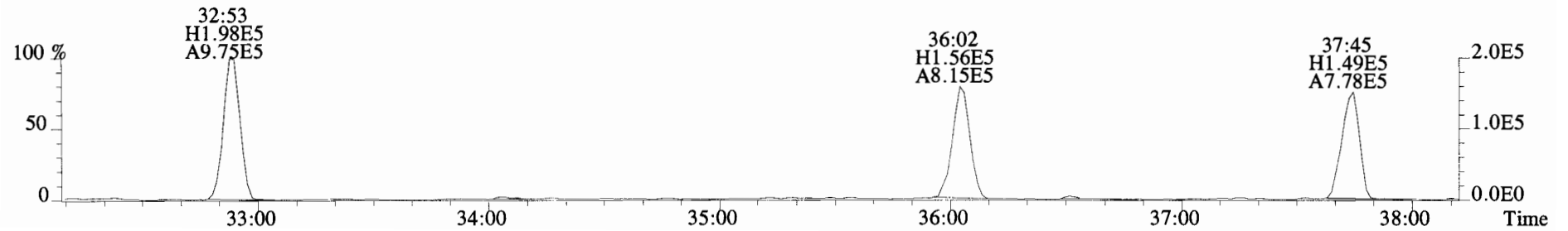
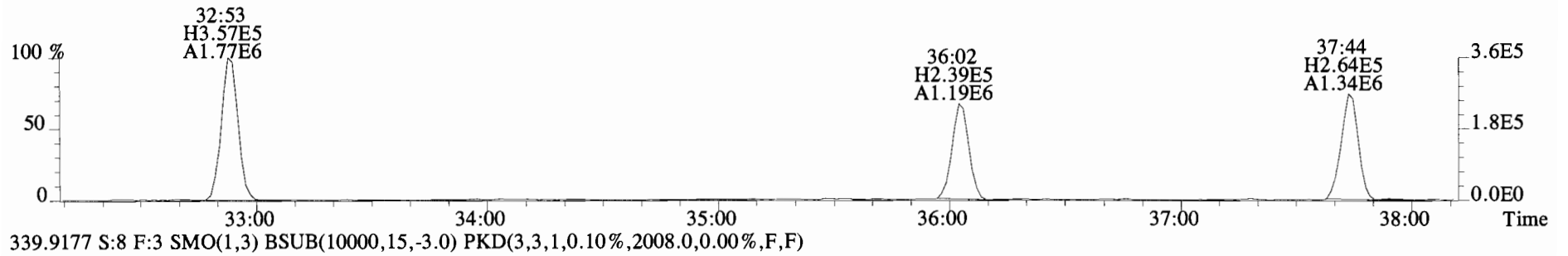
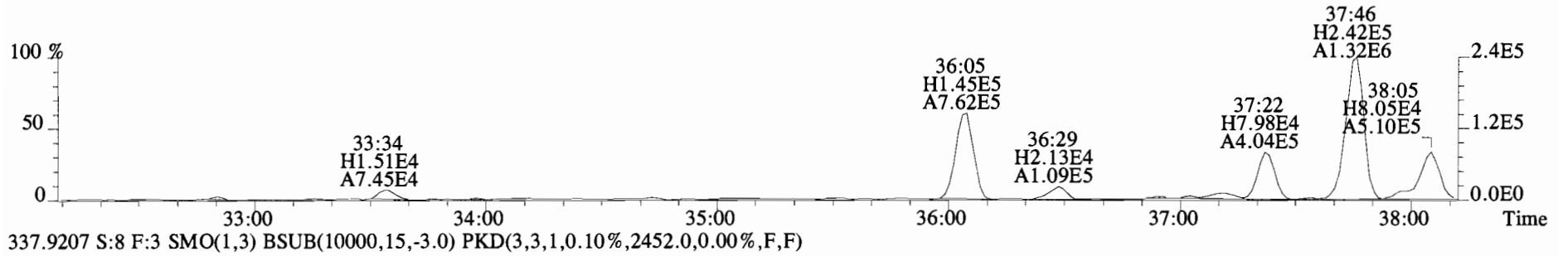
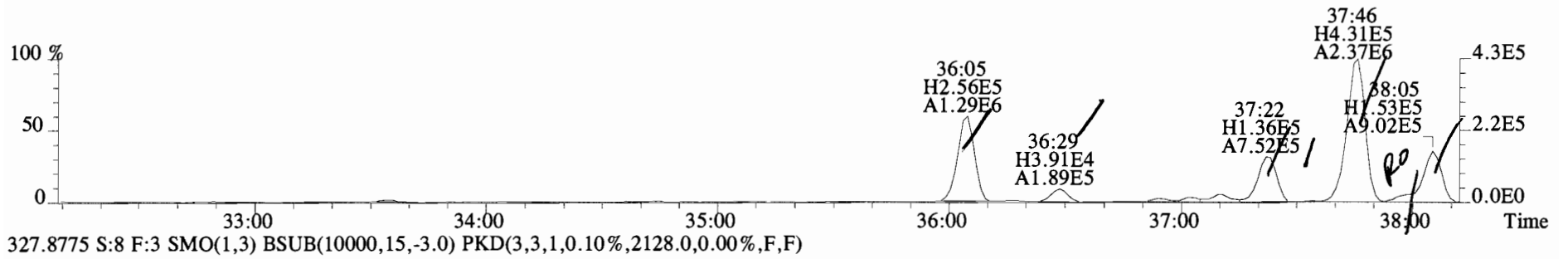
File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6672.0,0.00%,F,F)



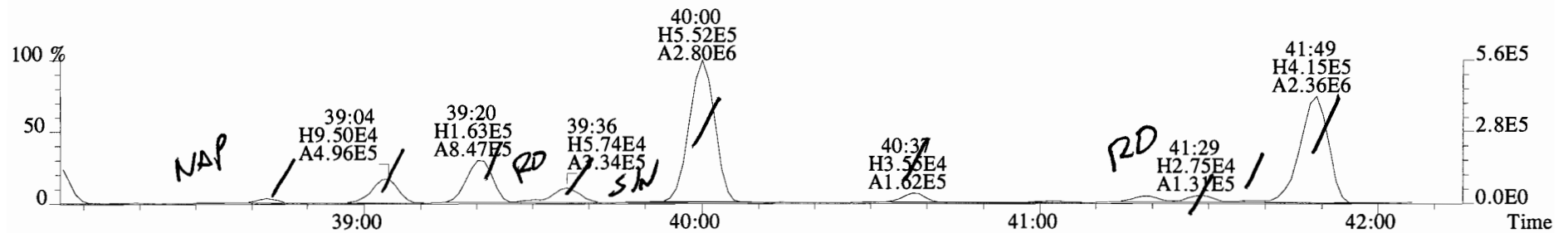
File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2432.0,0.00%,F,F)



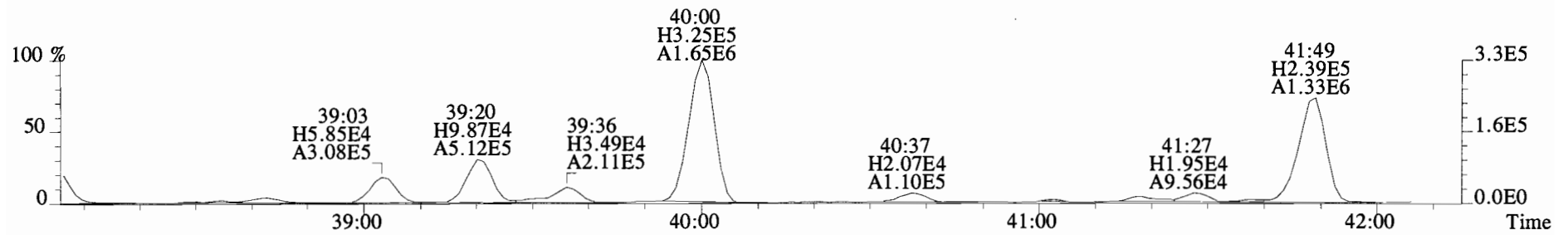
File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2432.0,0.00%,F,F)



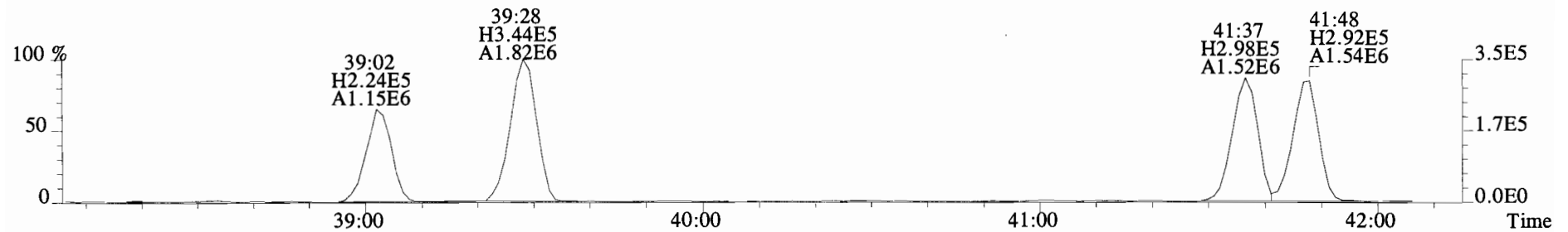
File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
 325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2432.0,0.00%,F,F)



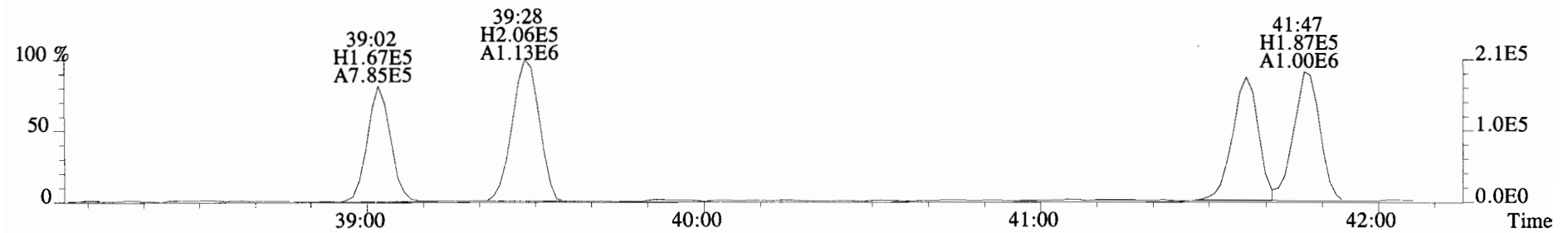
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2128.0,0.00%,F,F)



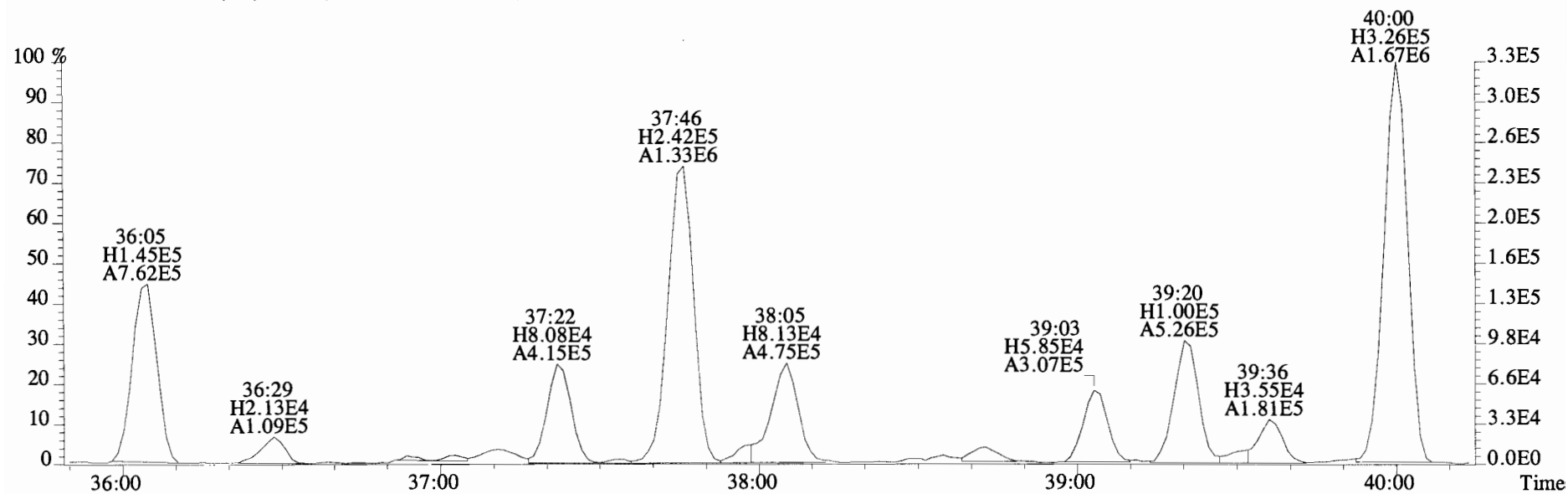
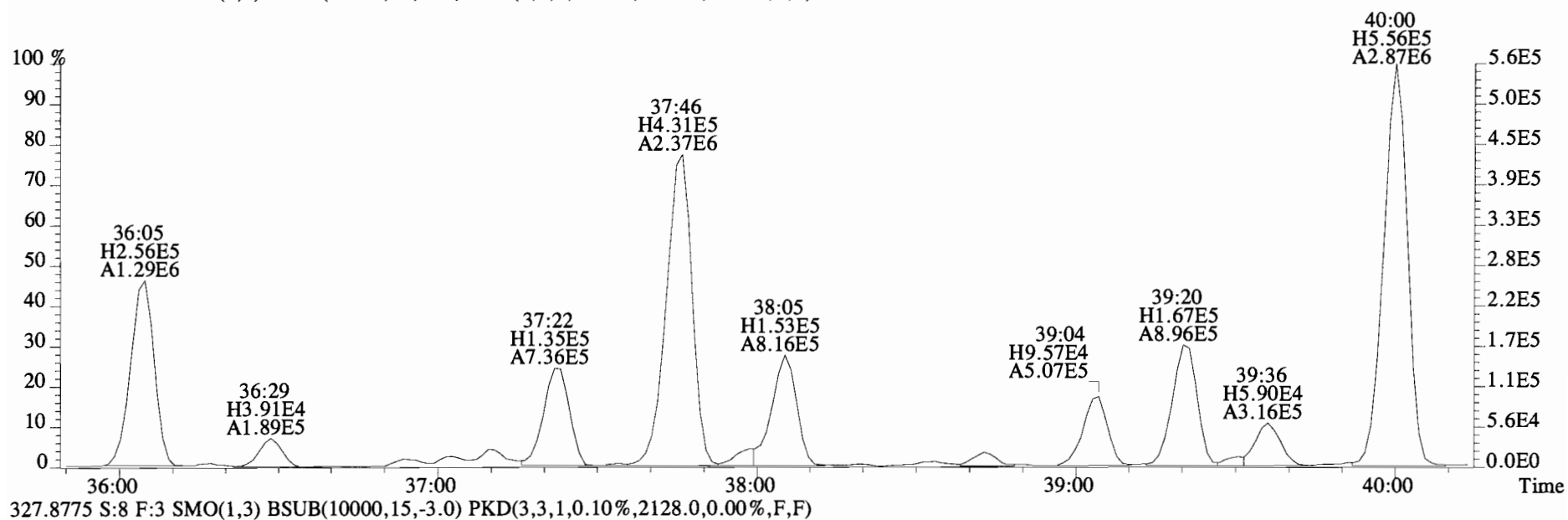
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2452.0,0.00%,F,F)



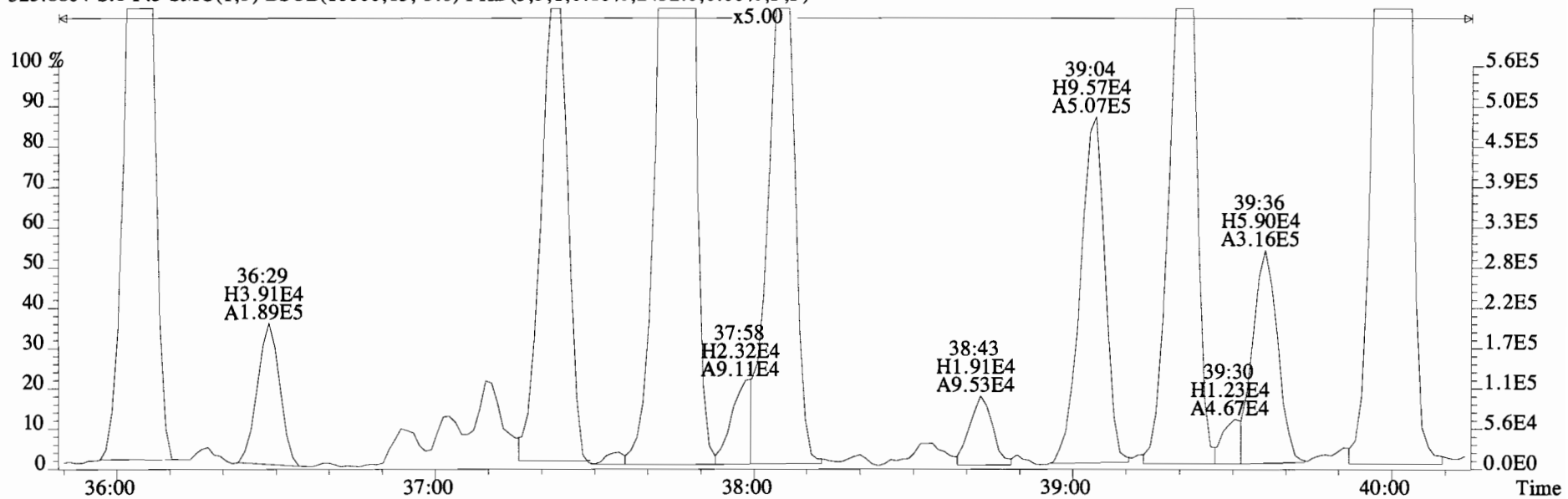
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2008.0,0.00%,F,F)



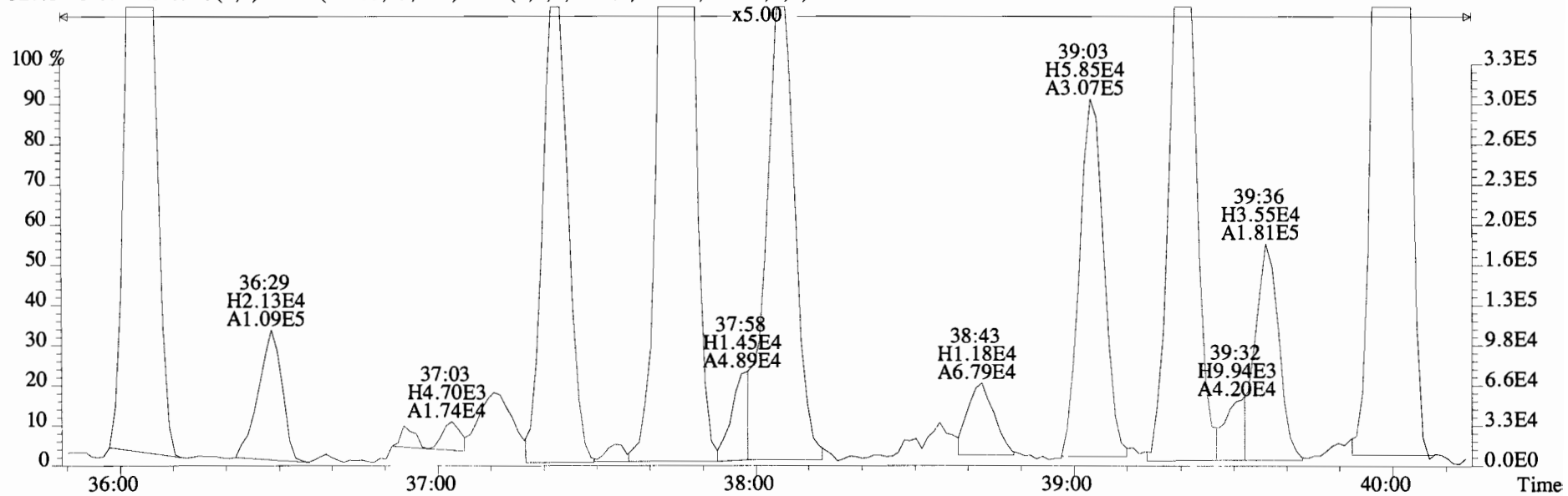
File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
 325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2432.0,0.00%,F,F)



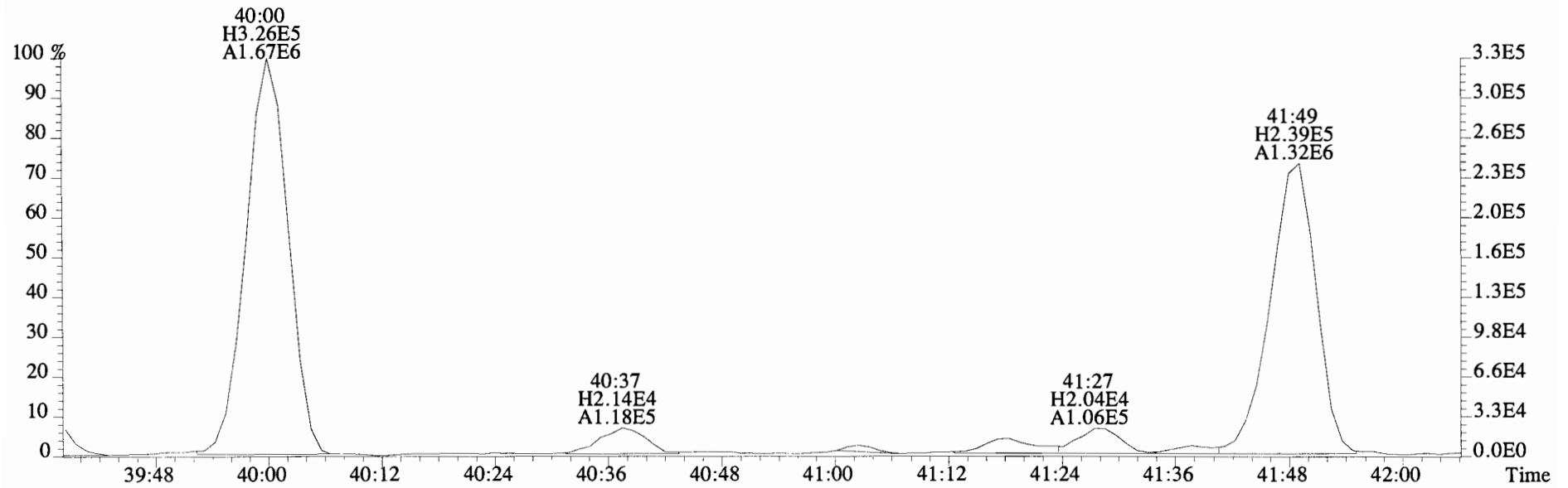
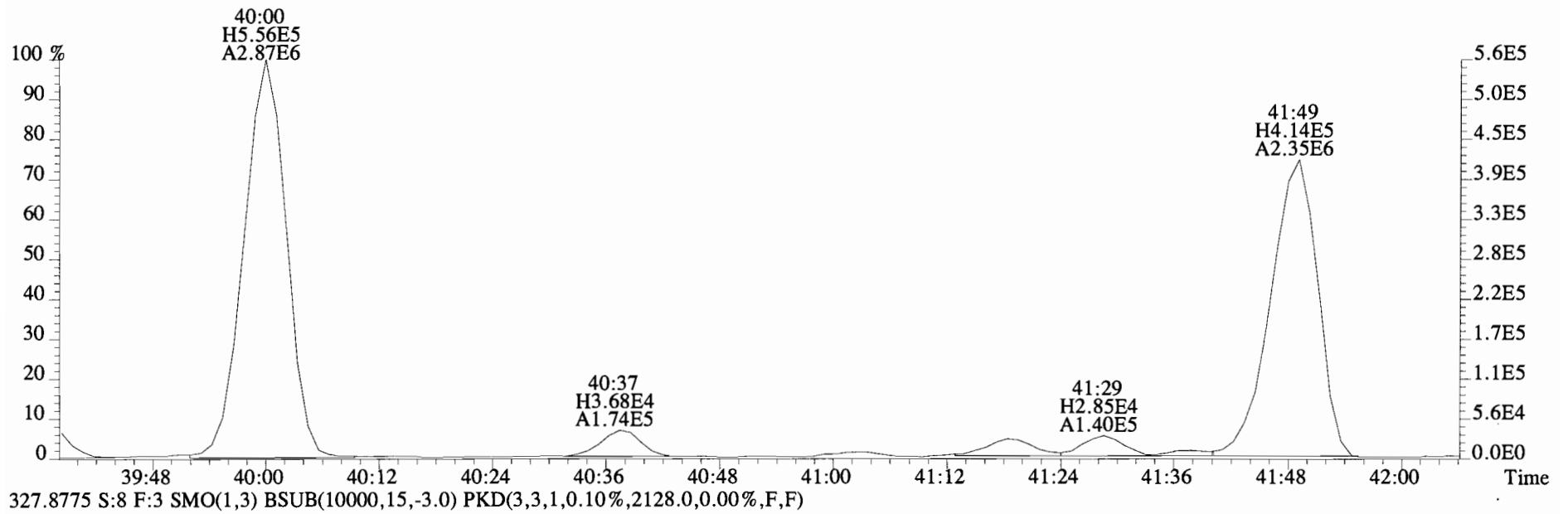
File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2432.0,0.00%,F,F)



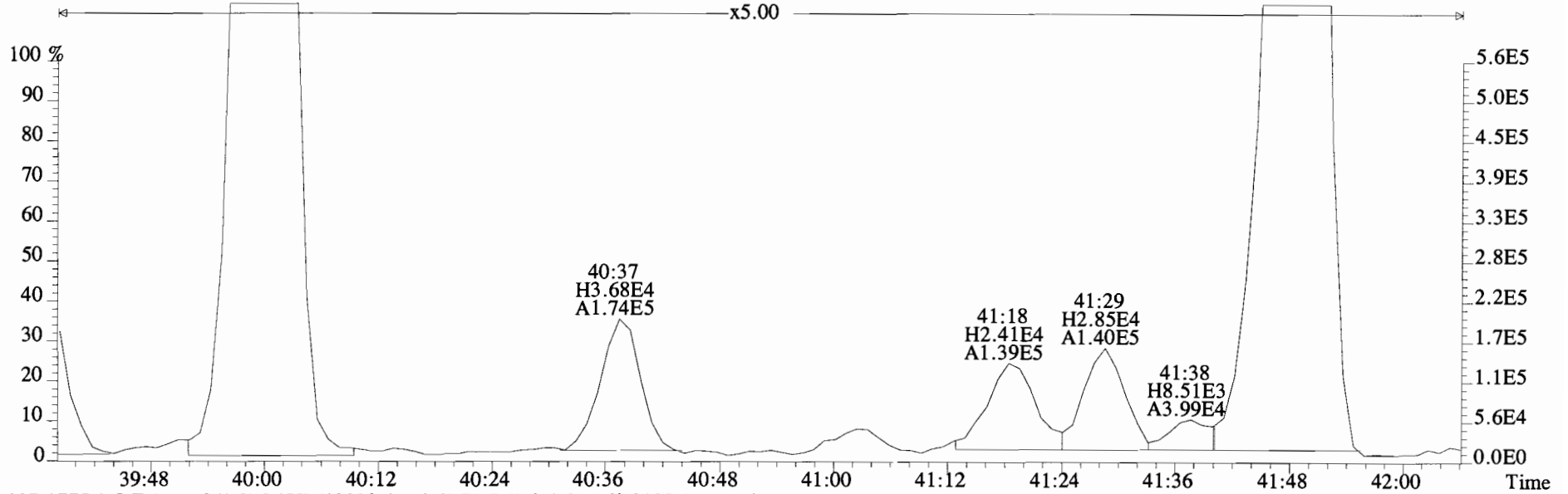
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2128.0,0.00%,F,F)



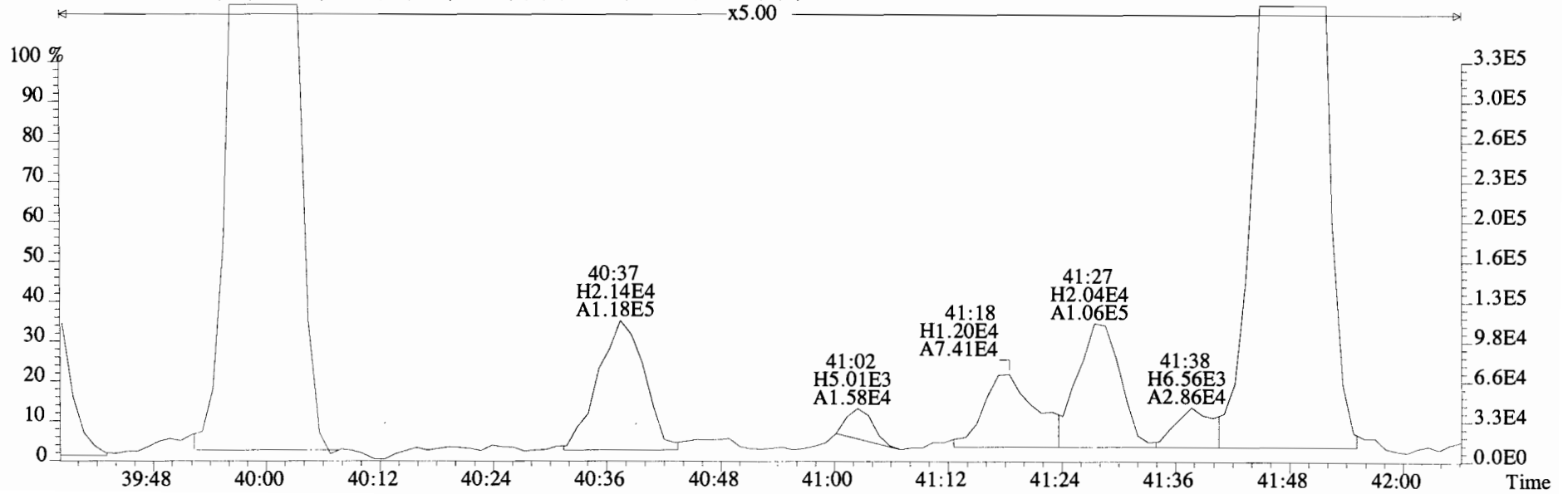
File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2432.0,0.00%,F,F)



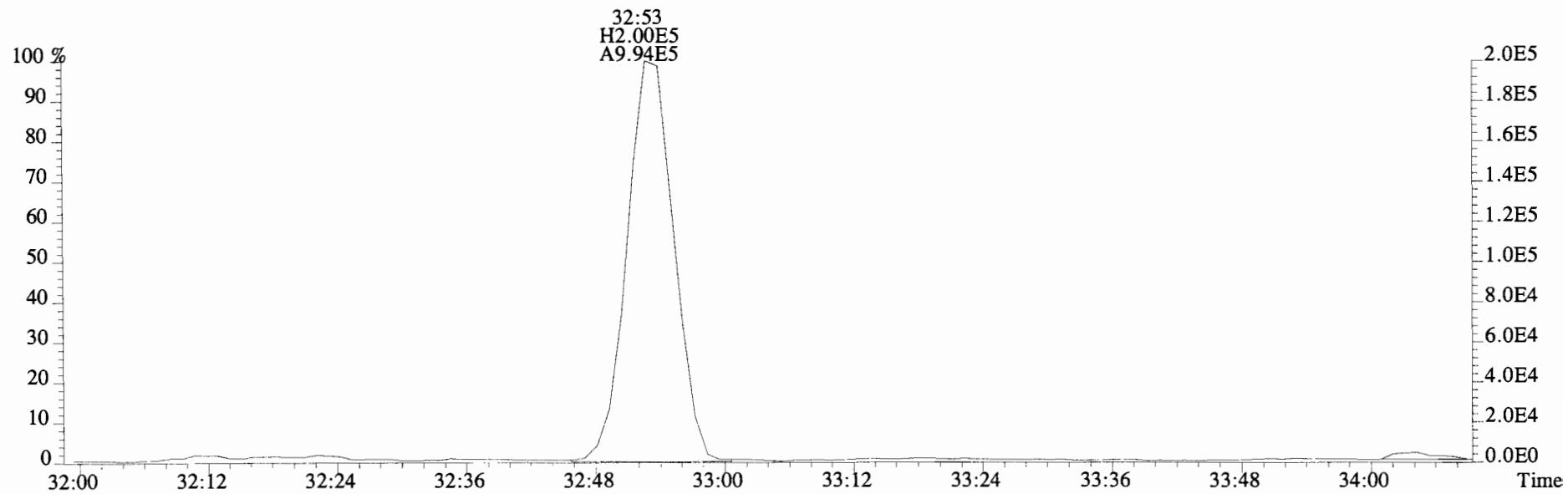
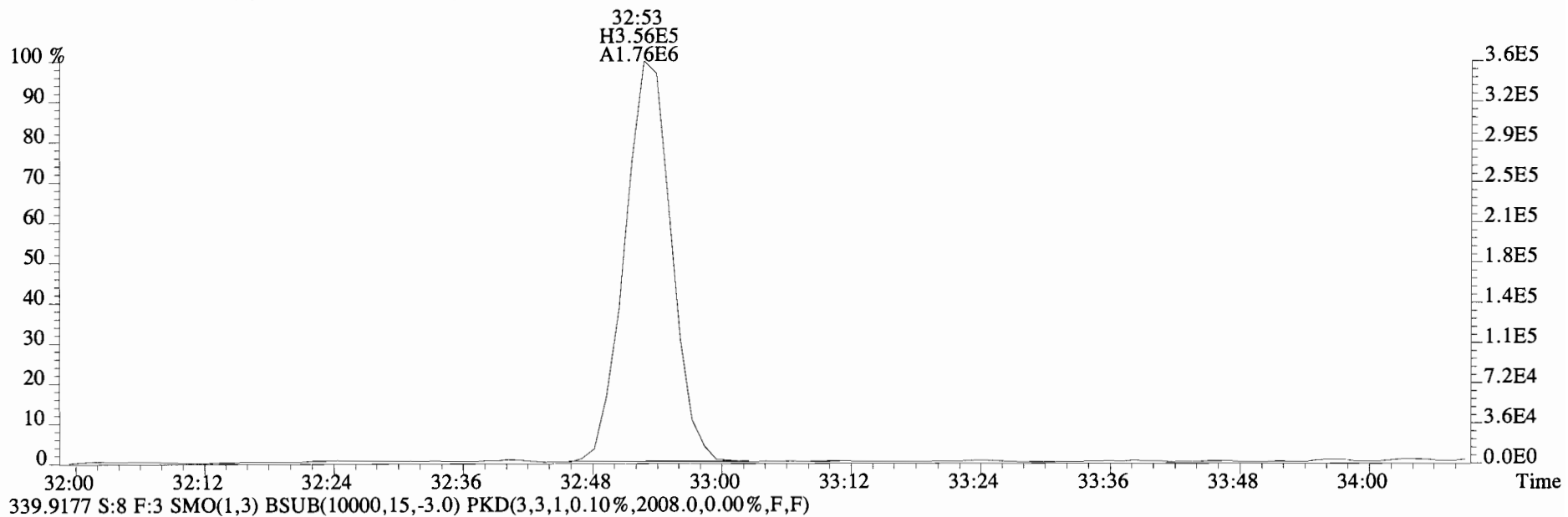
File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2432.0,0.00%,F,F)



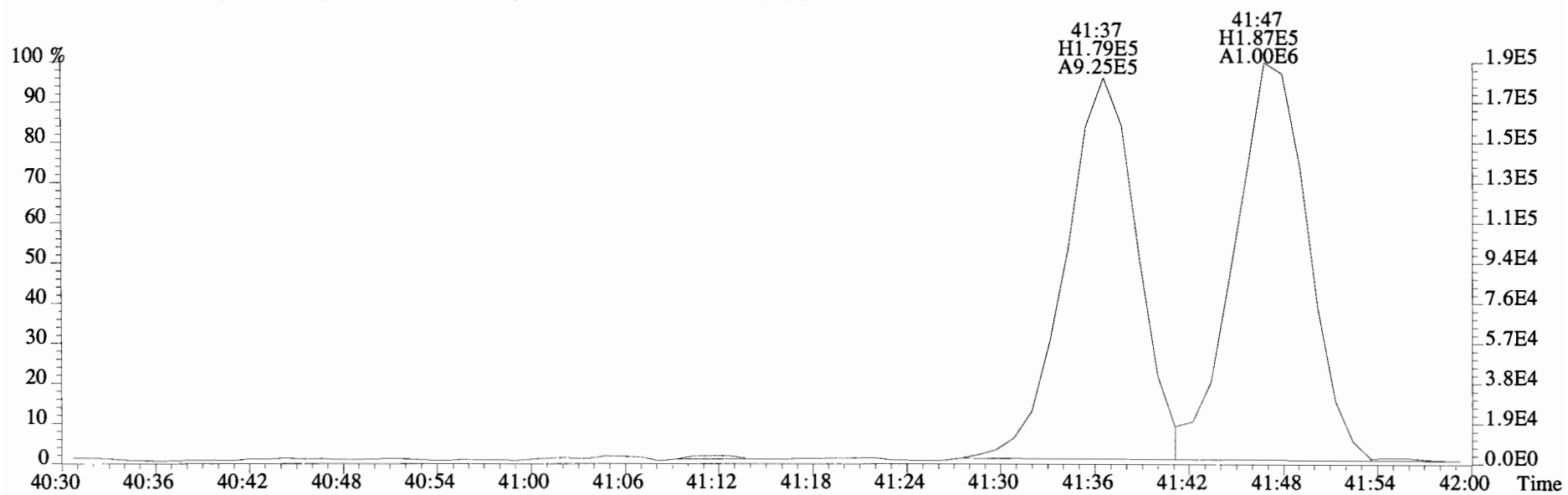
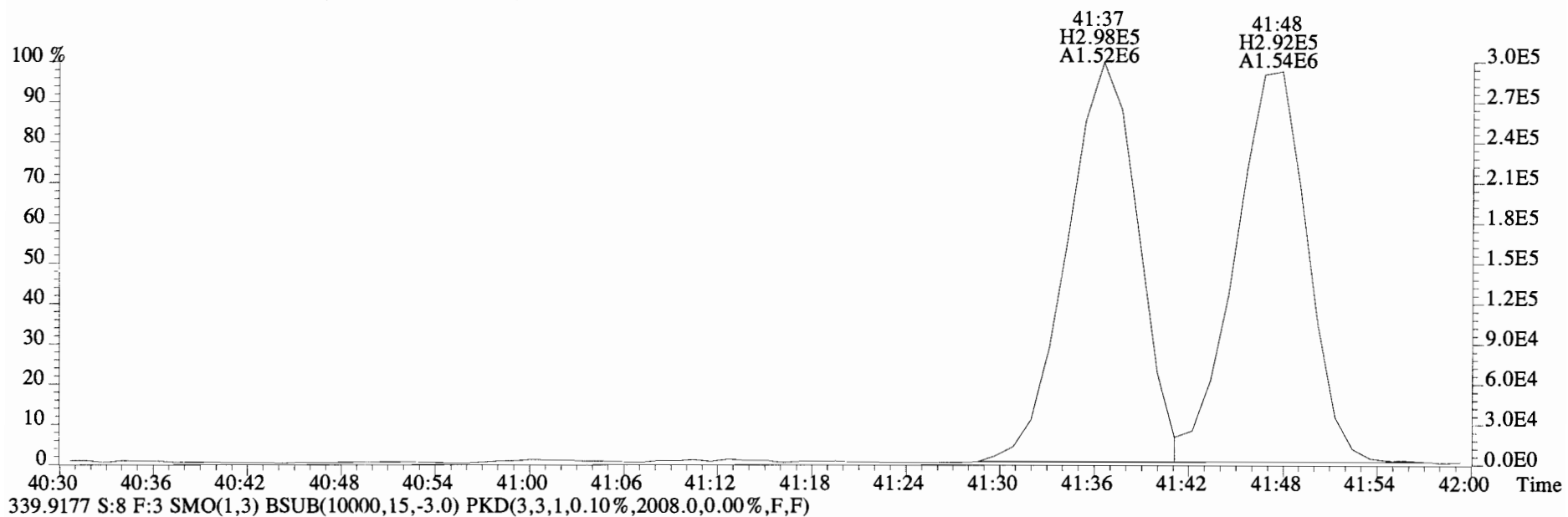
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2128.0,0.00%,F,F)



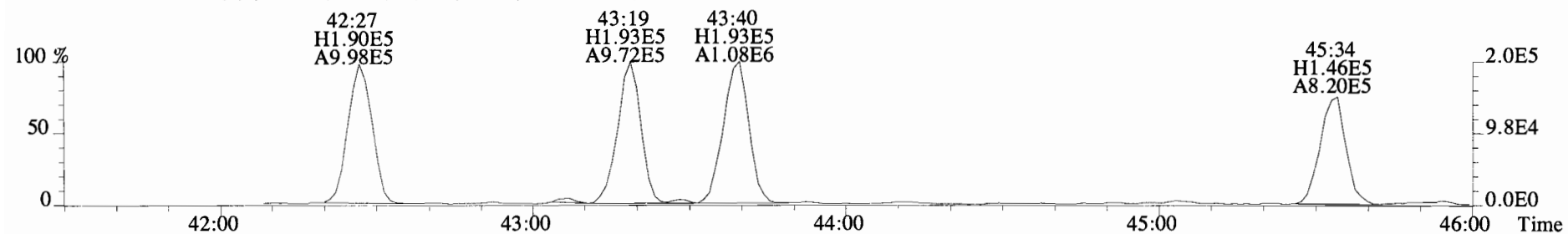
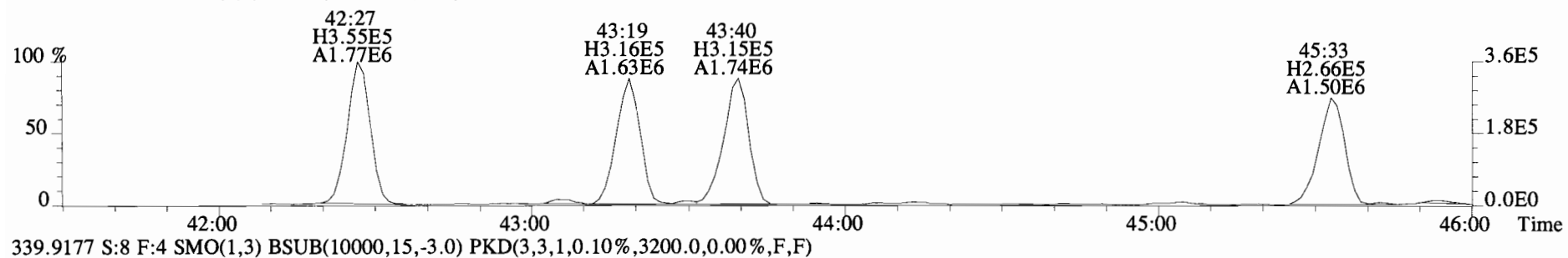
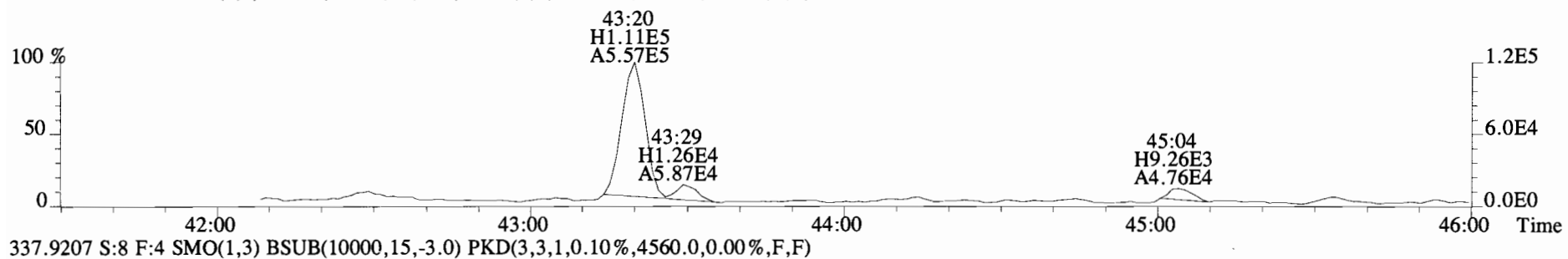
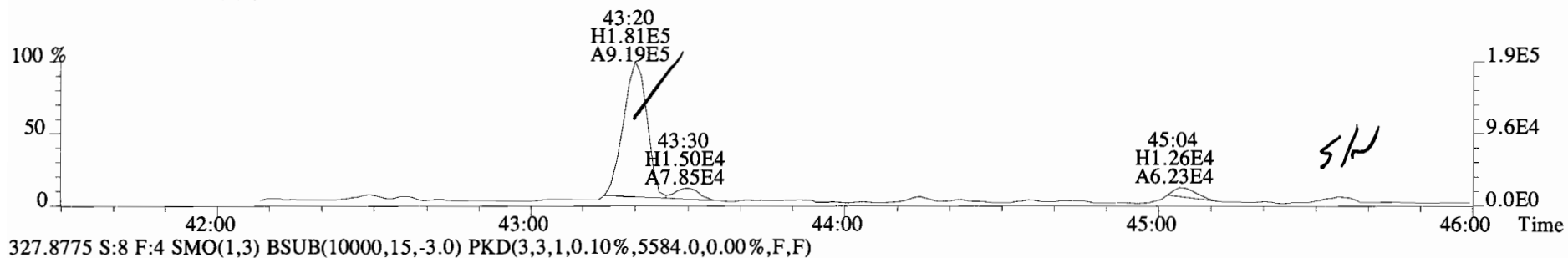
File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2452.0,0.00%,F,F)



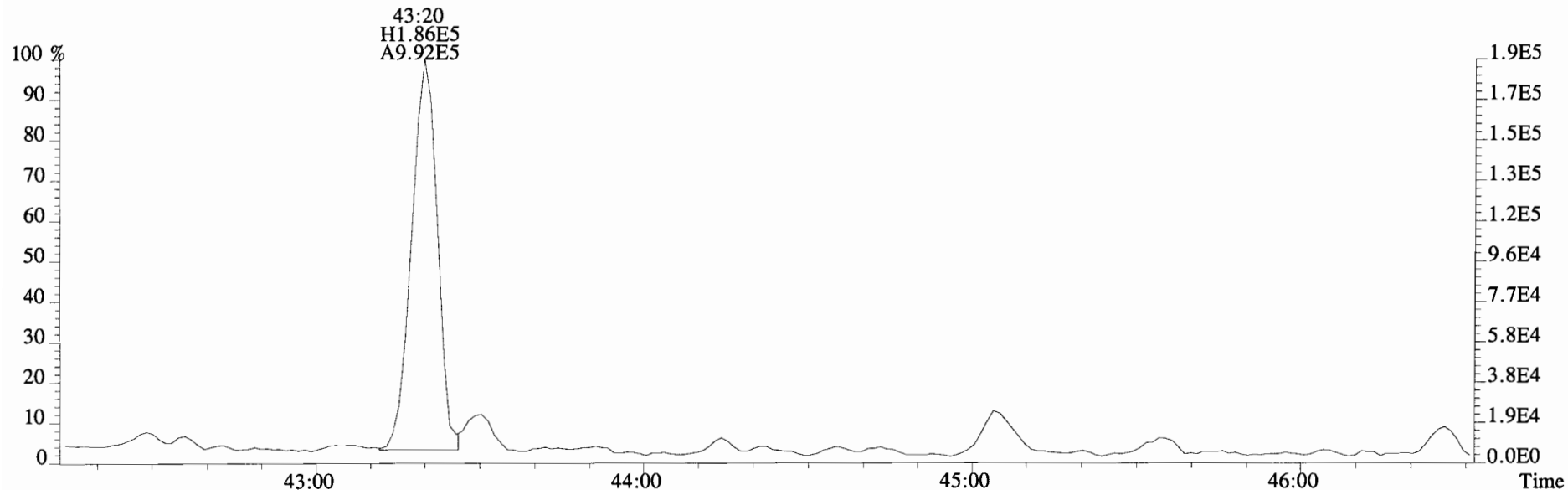
File:140919E2 #1-770 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2452.0,0.00%,F,F)



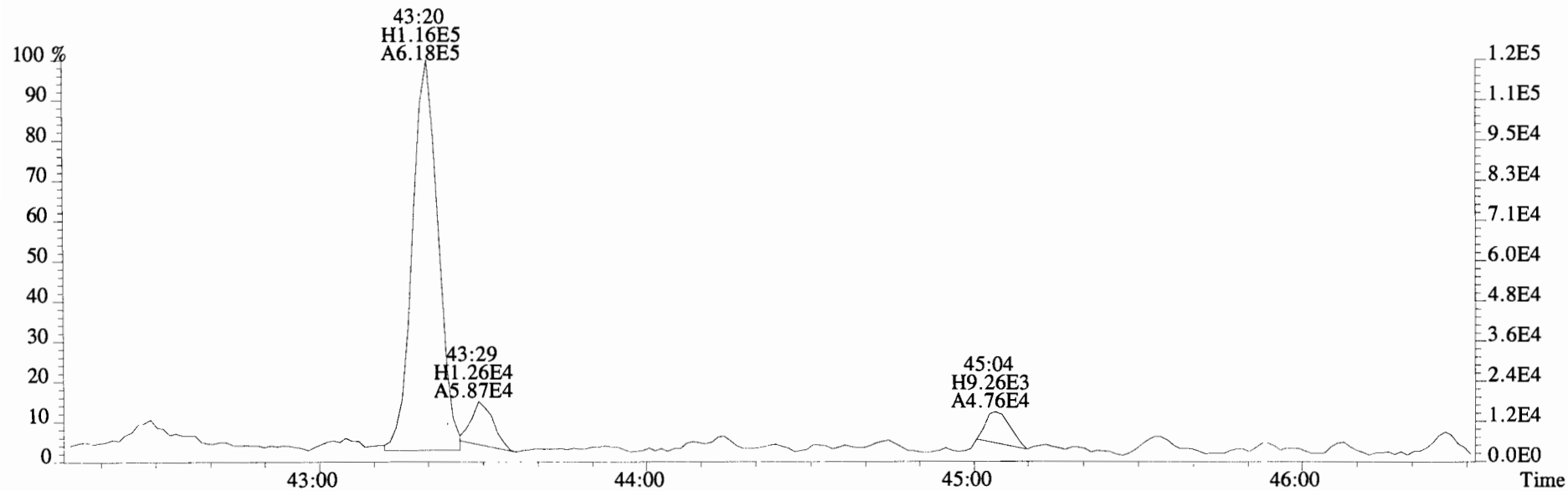
File:140919E2 #1-544 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8044.0,0.00%,F,F)



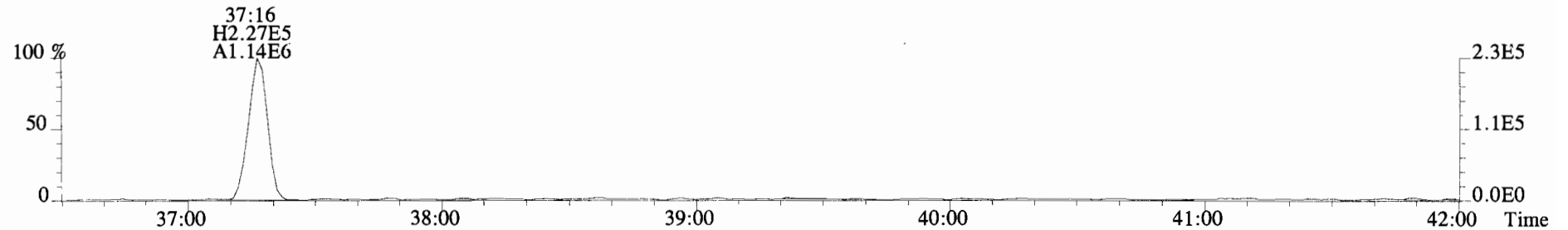
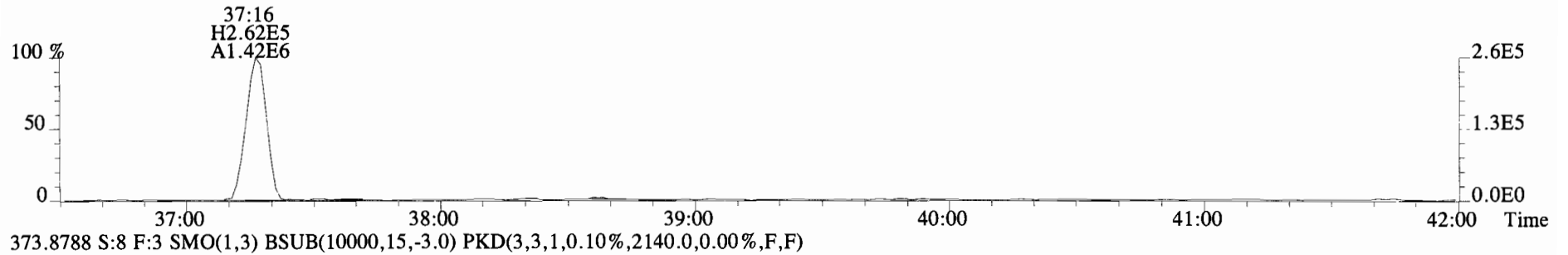
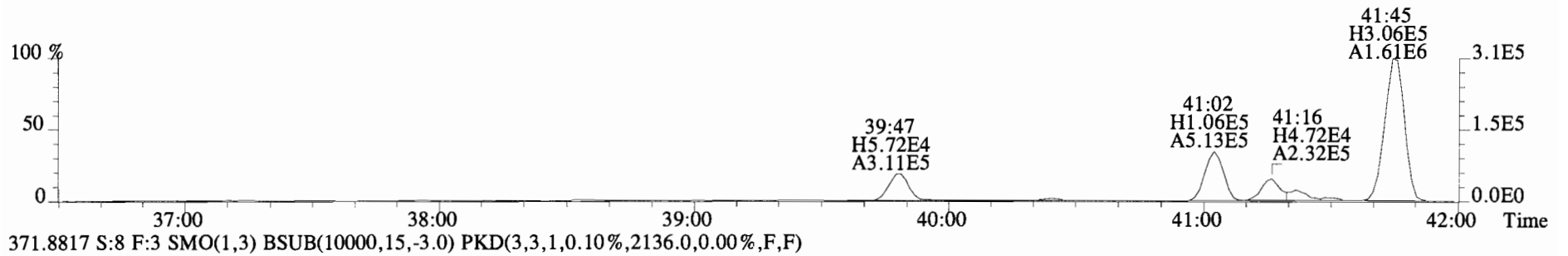
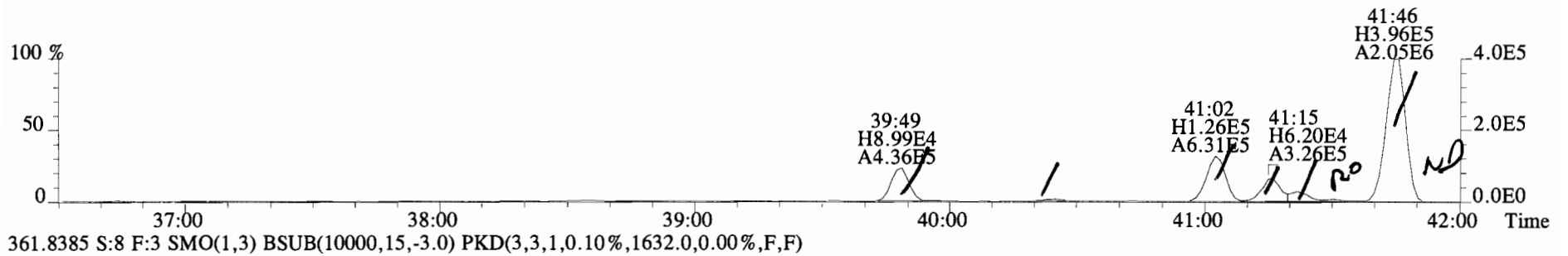
File:140919E2 #1-544 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8044.0,0.00%,F,F)



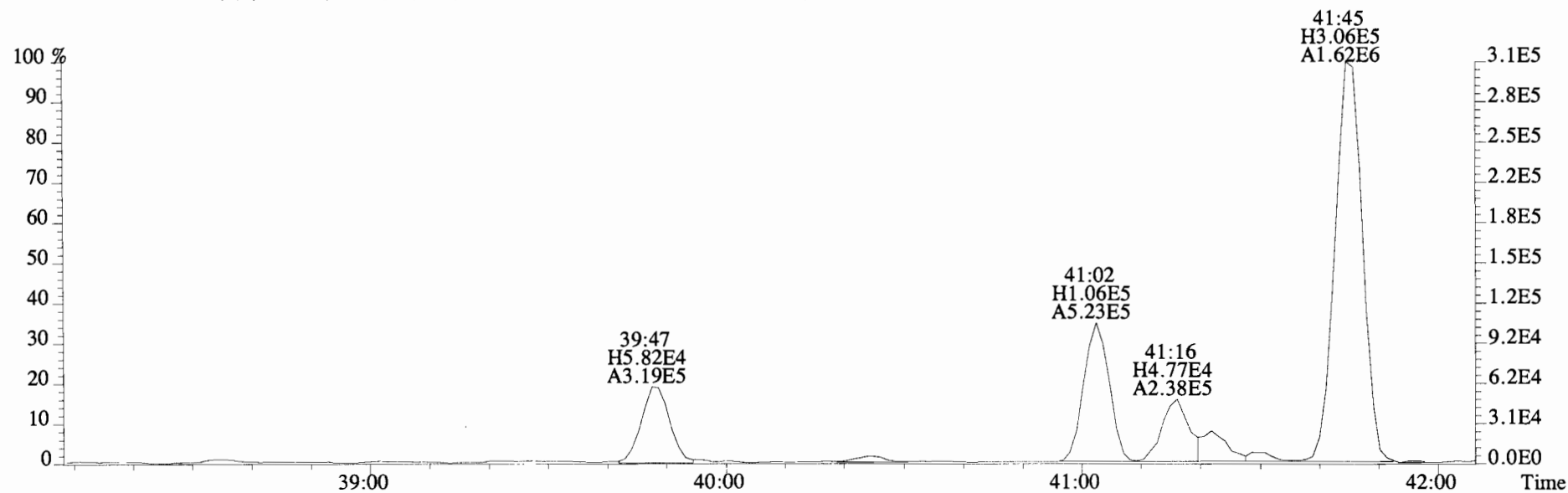
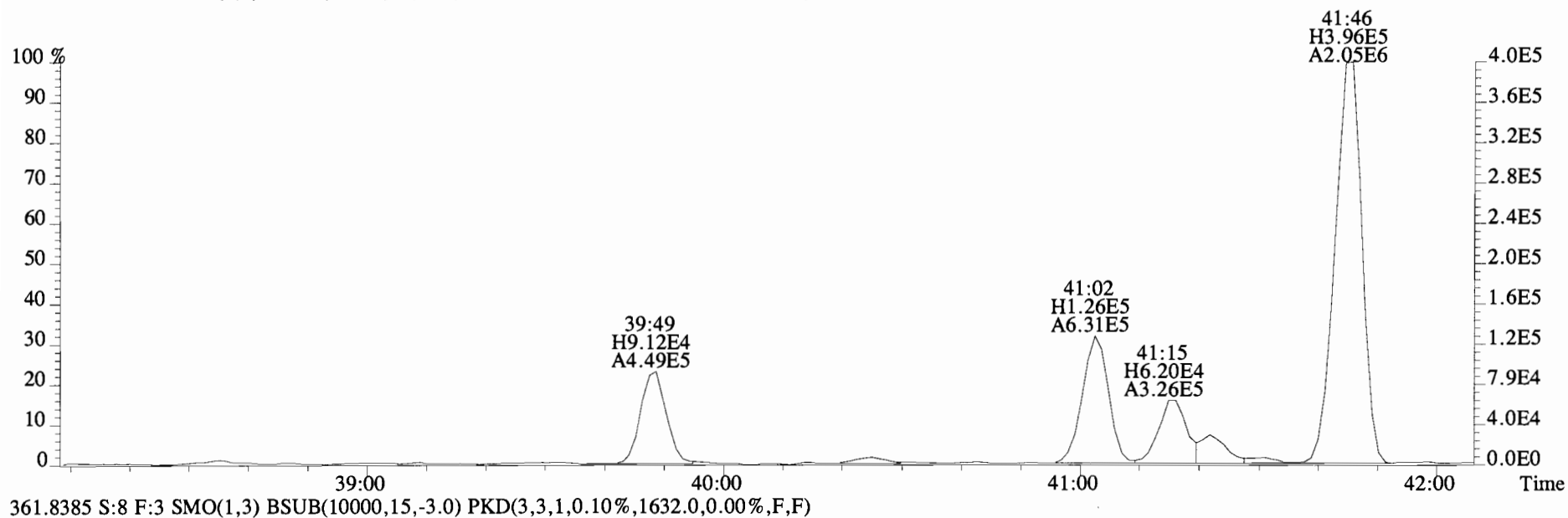
327.8775 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5584.0,0.00%,F,F)



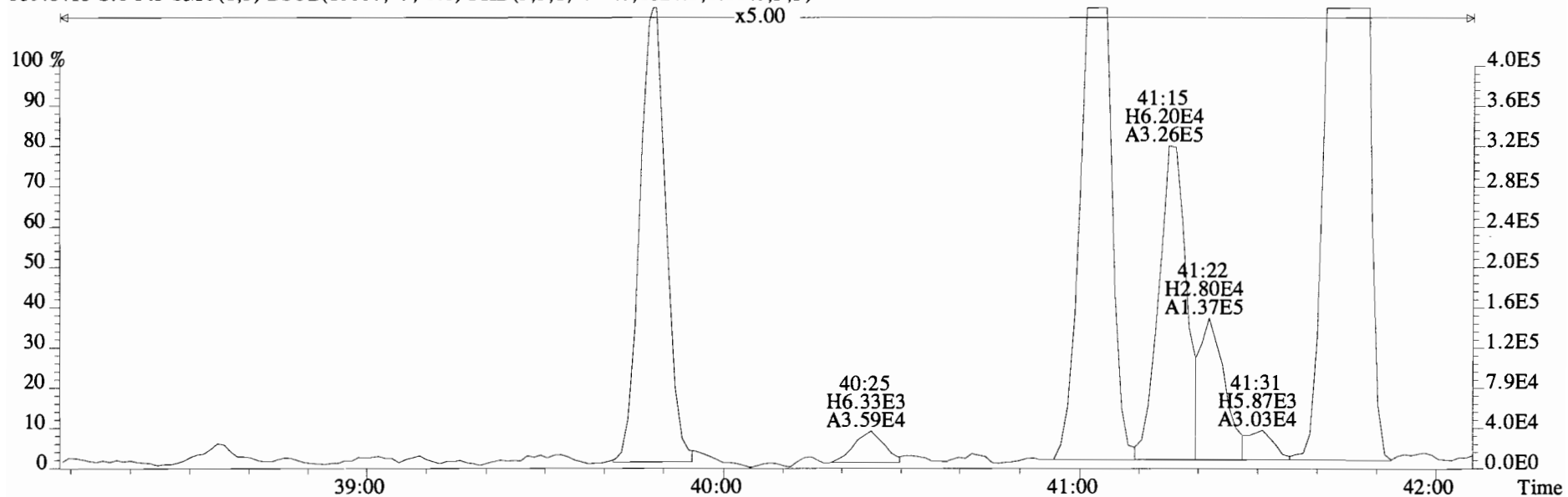
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1824.0,0.00%,F,F)



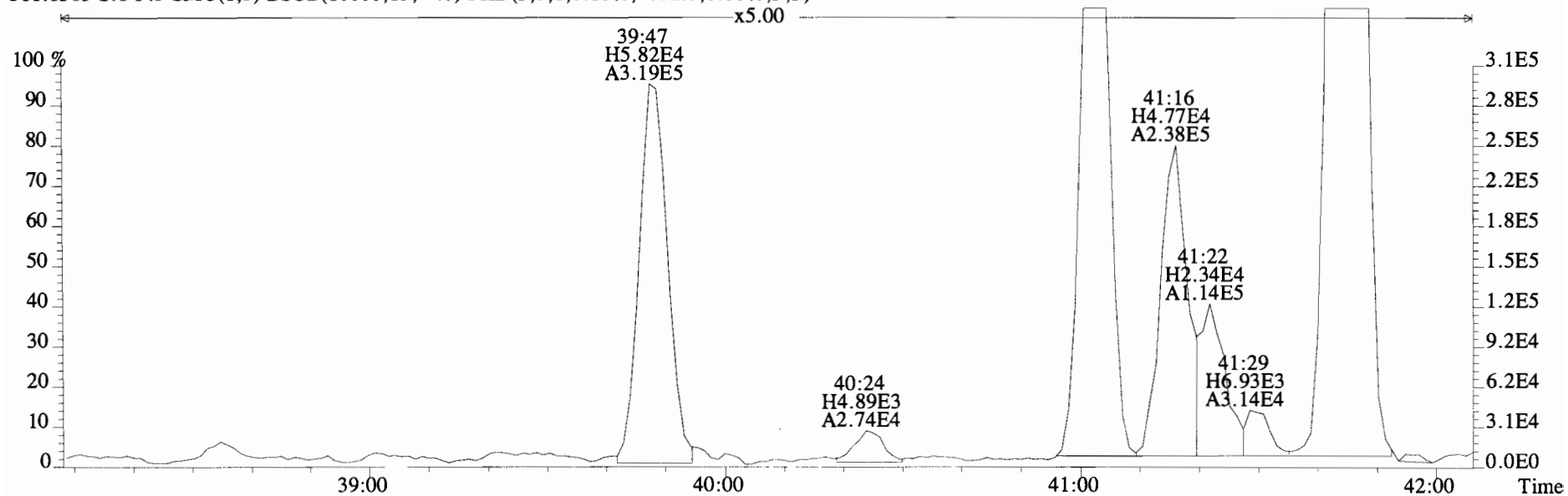
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Sample#8 File Text: Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1824.0,0.00%,F,F)



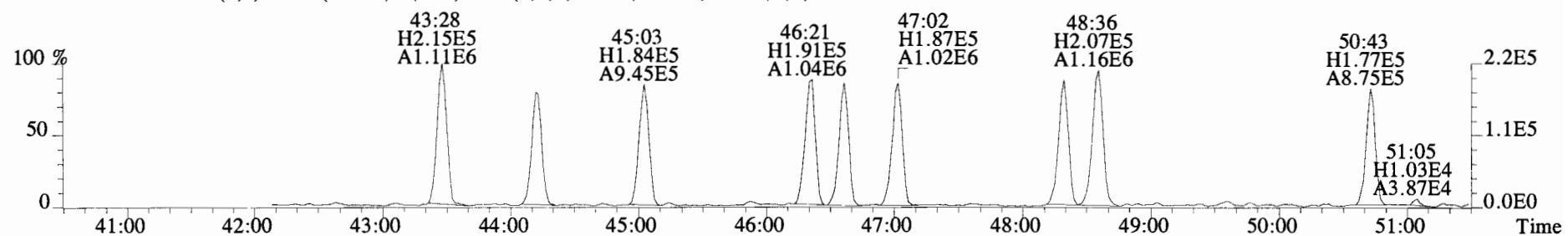
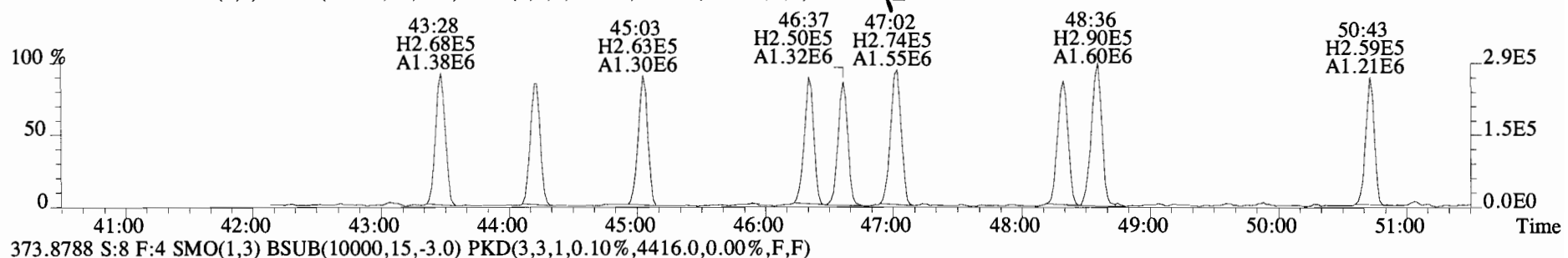
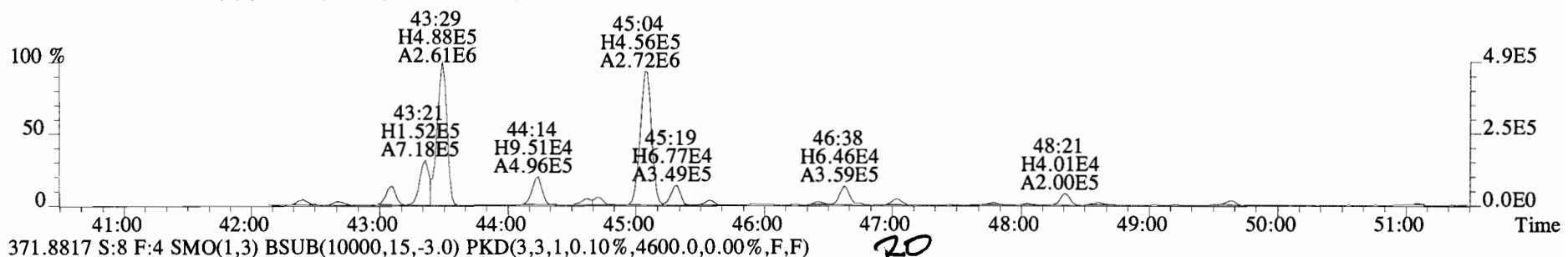
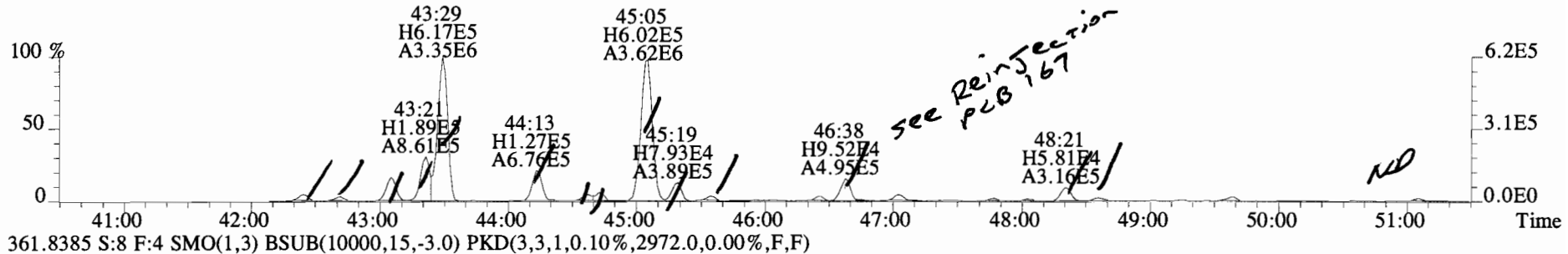
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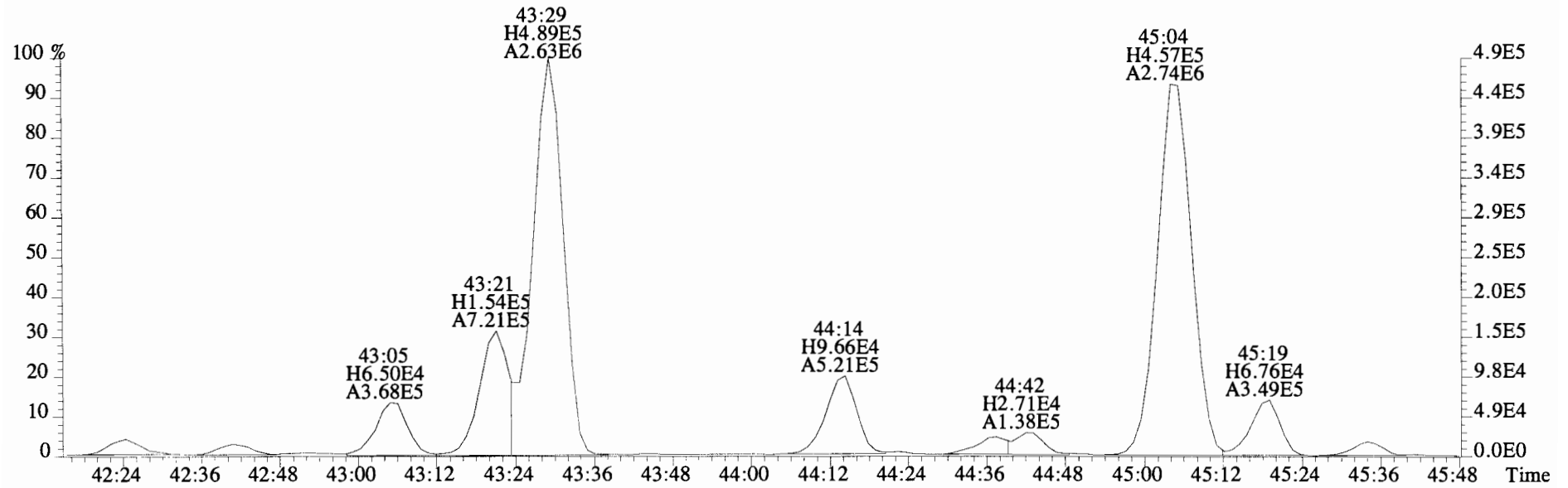
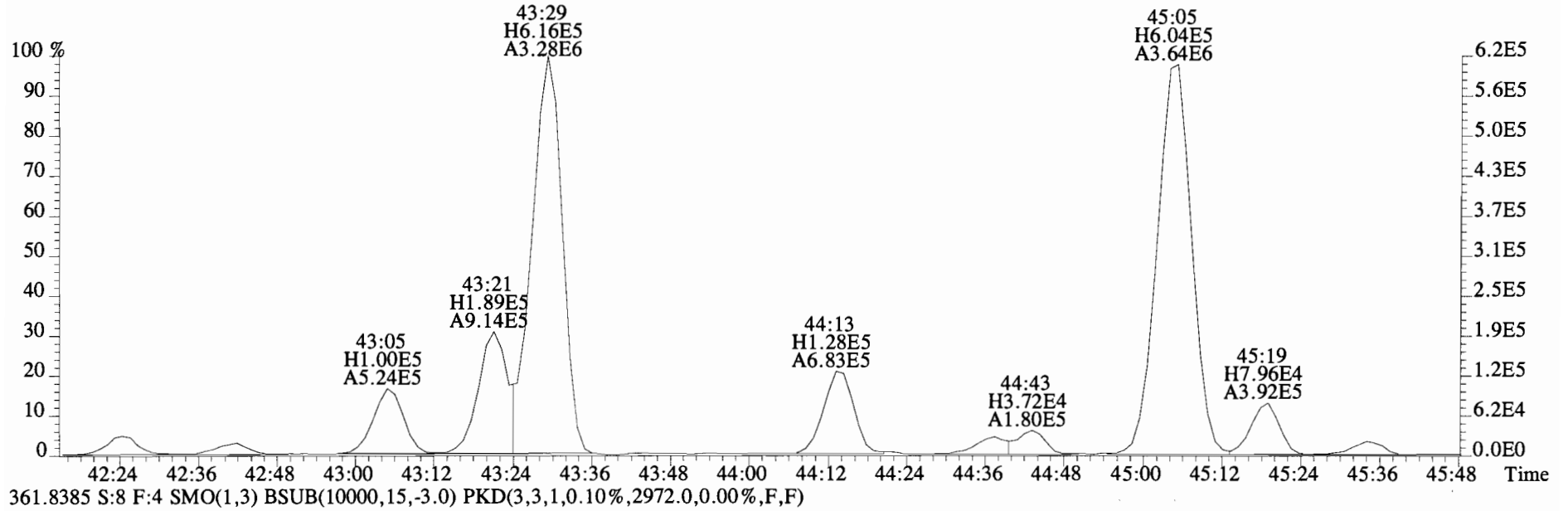
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1632.0,0.00%,F,F)



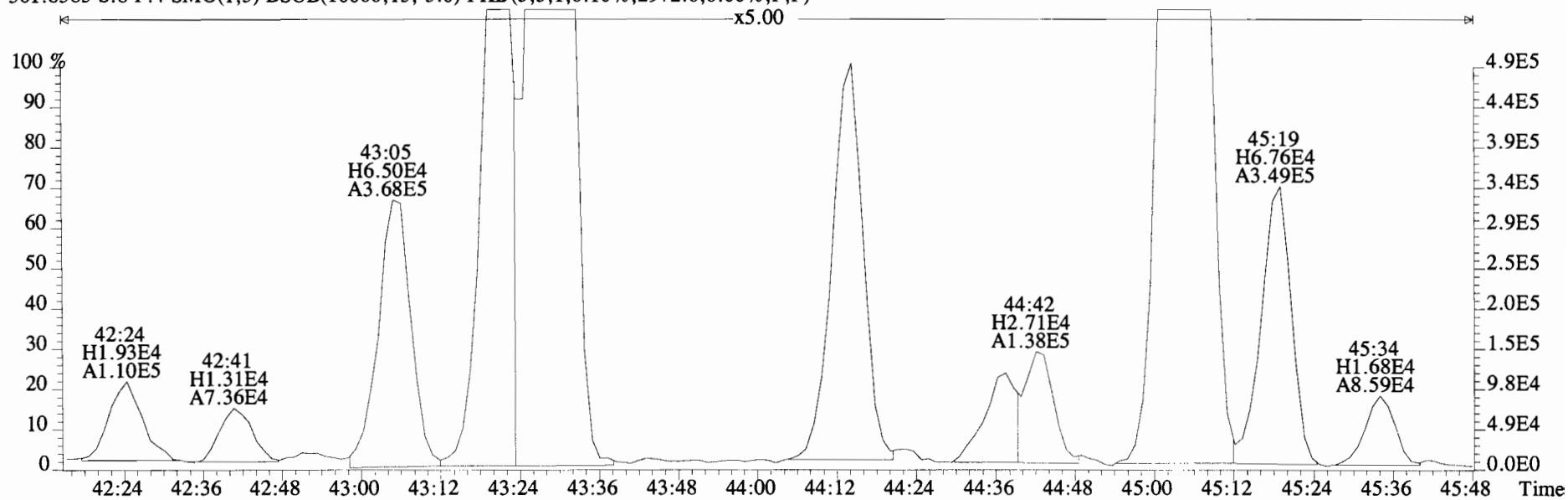
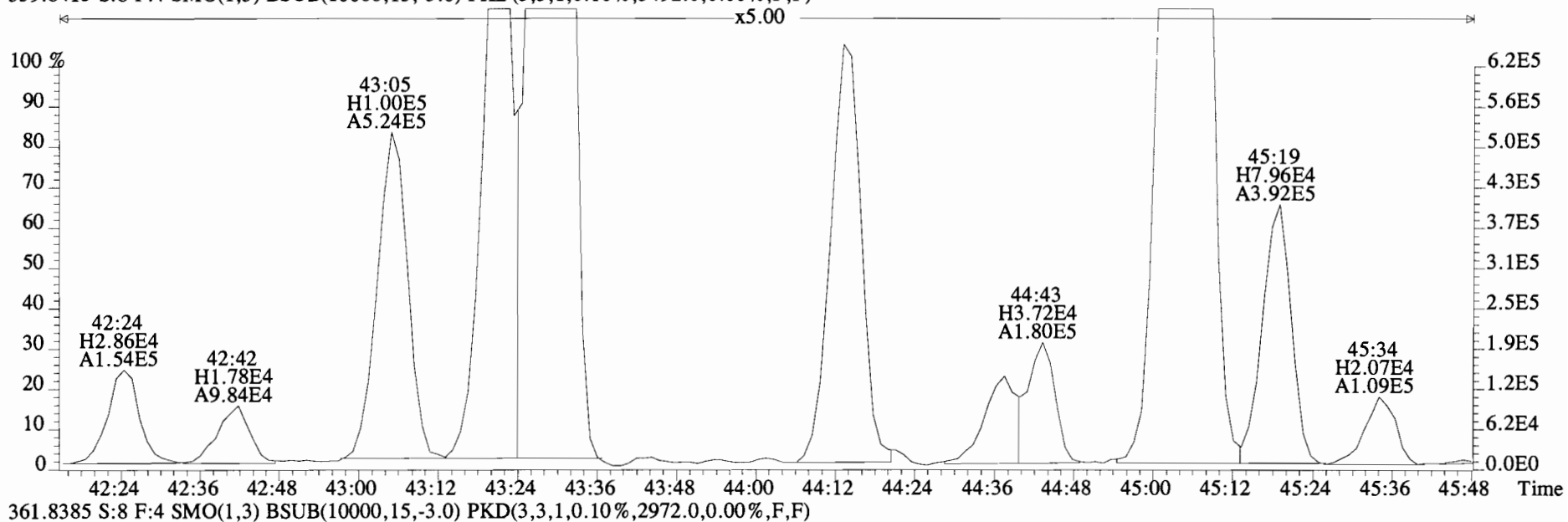
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Sample#8 File Text: Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3492.0,0.00%,F,F)



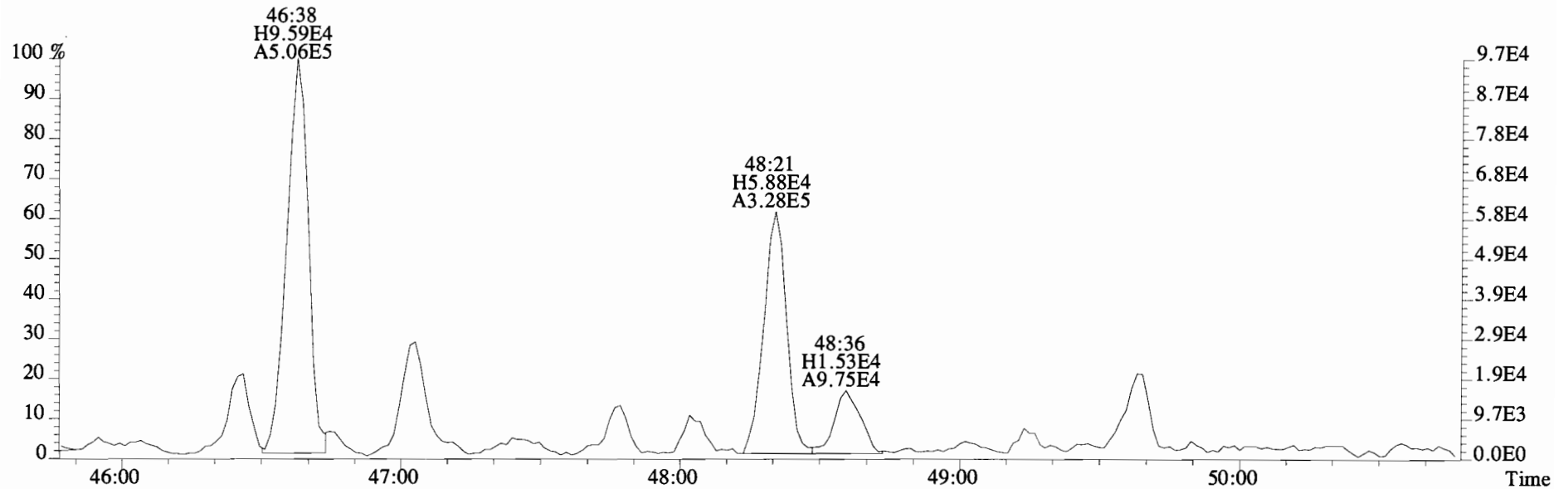
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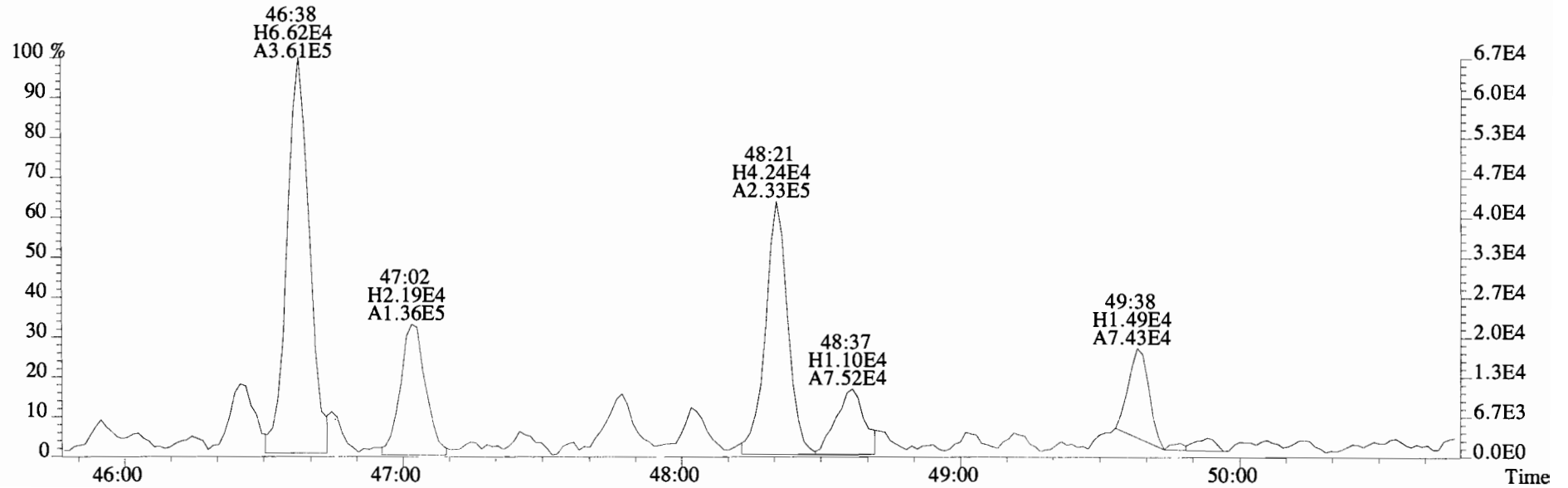
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3492.0,0.00%,F,F)



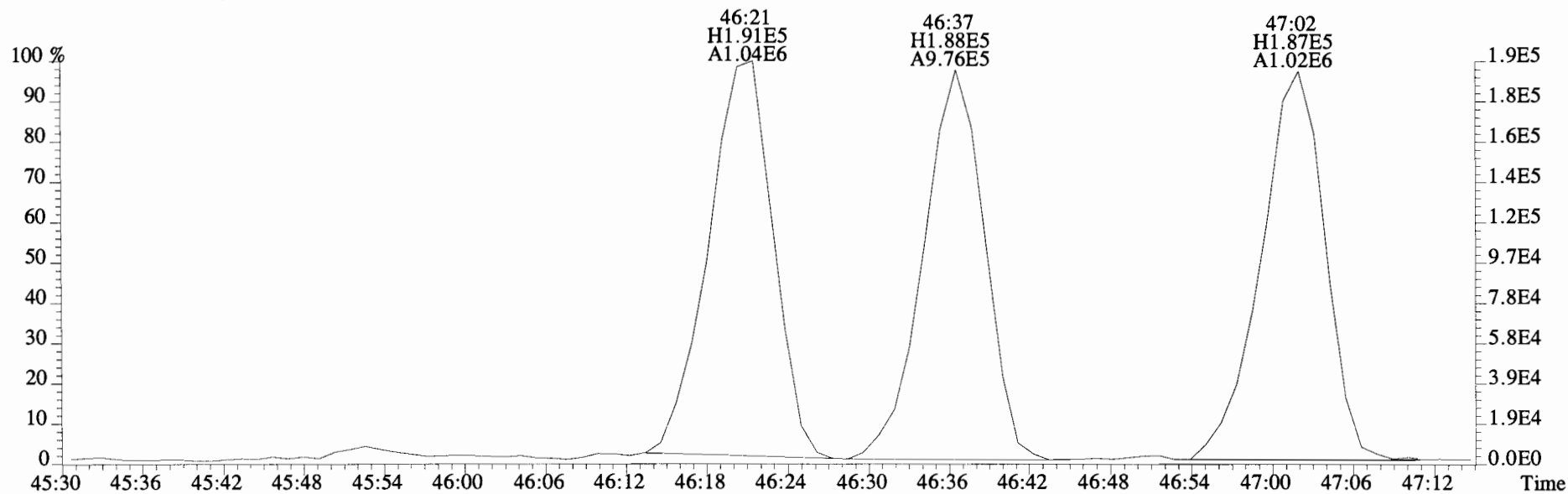
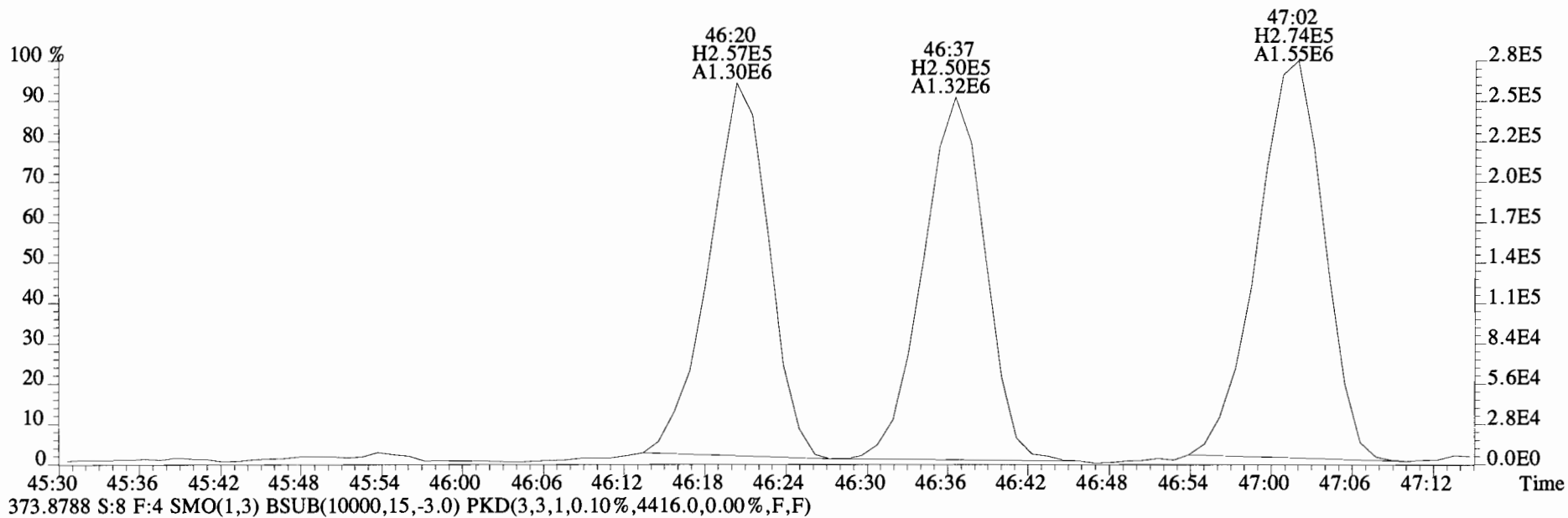
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Sample#8 File Text: Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3492.0,0.00%,F,F)



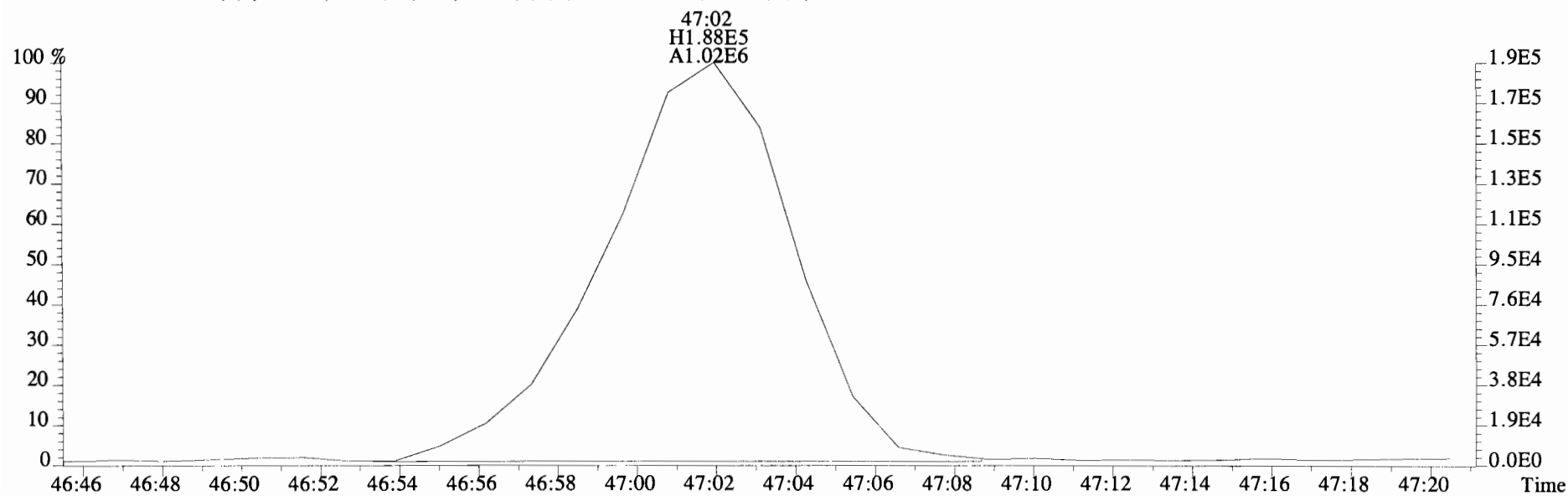
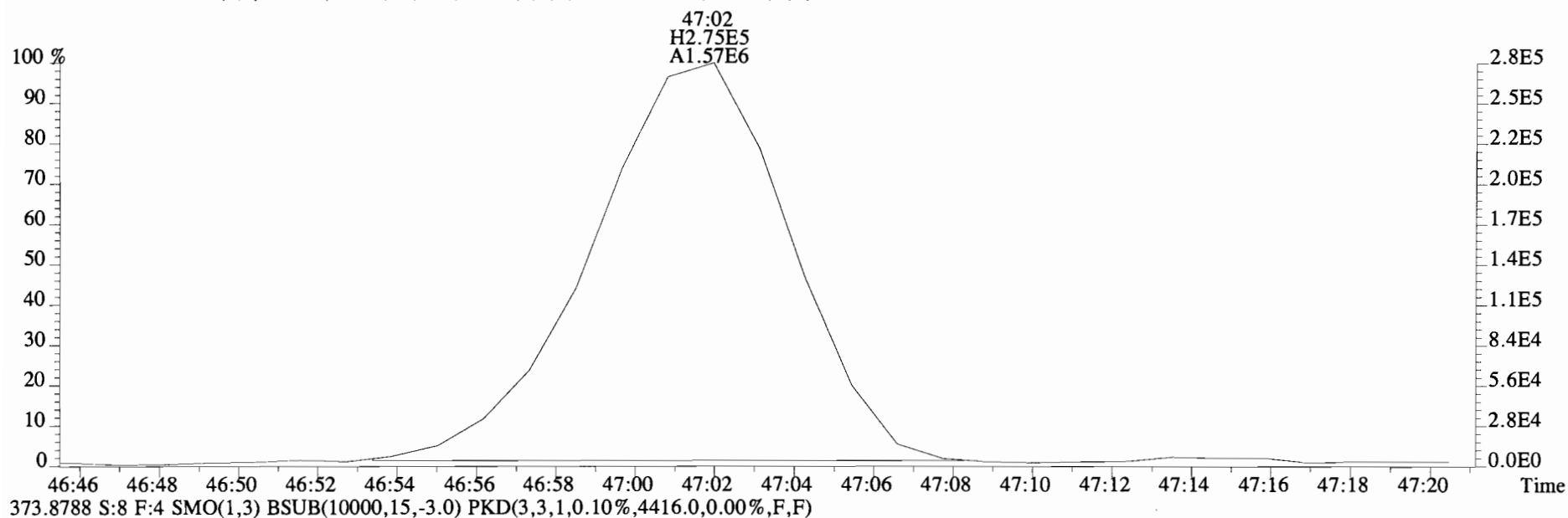
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2972.0,0.00%,F,F)



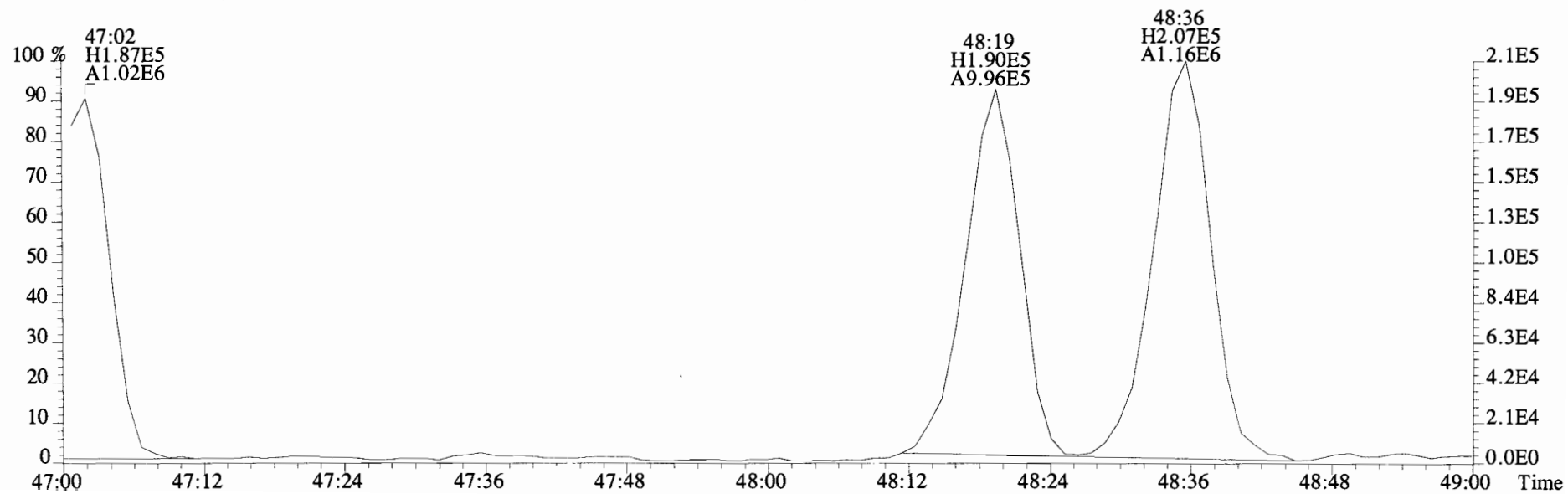
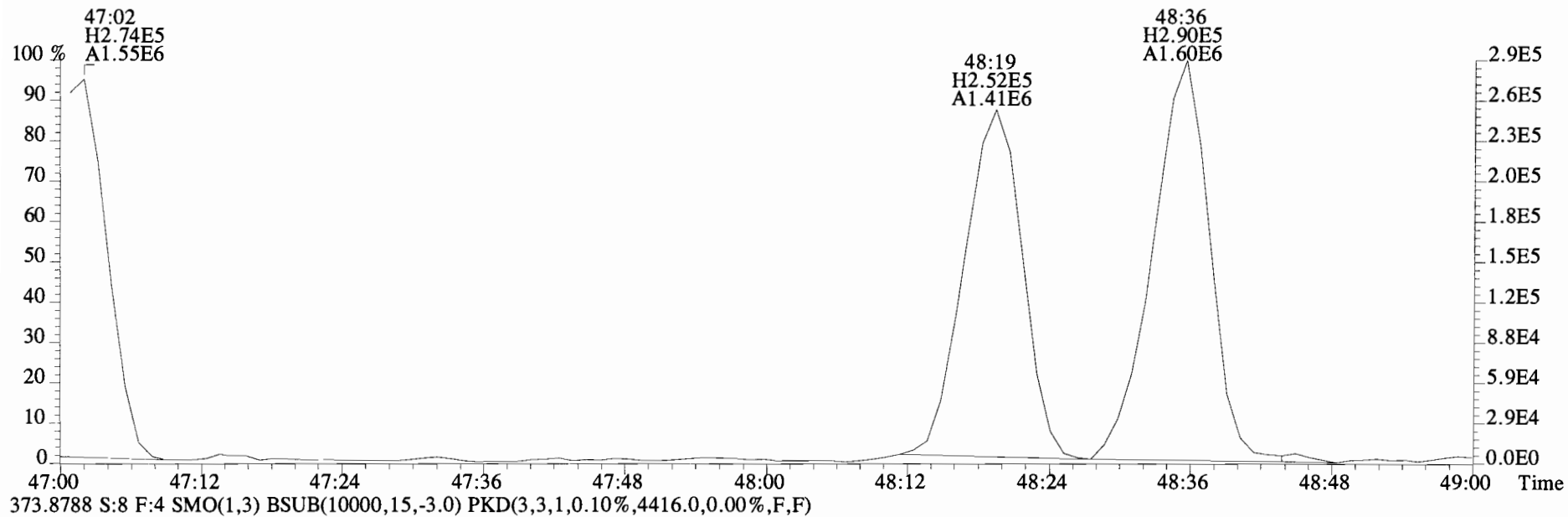
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4600.0,0.00%,F,F)



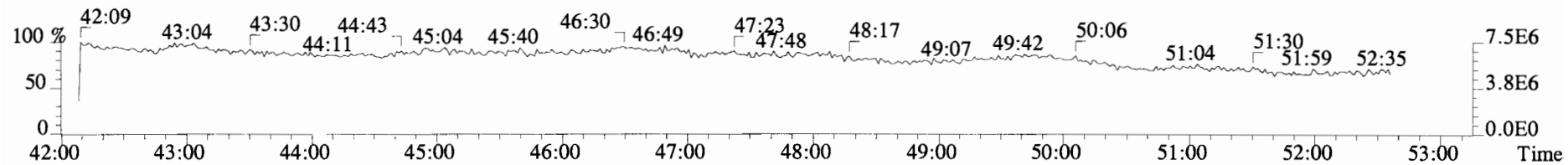
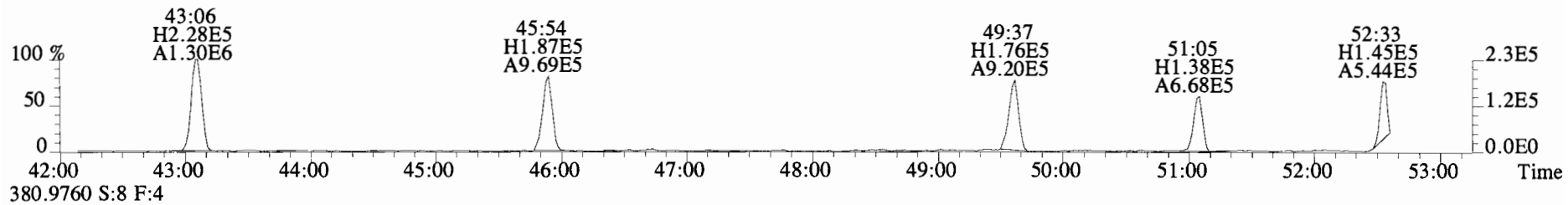
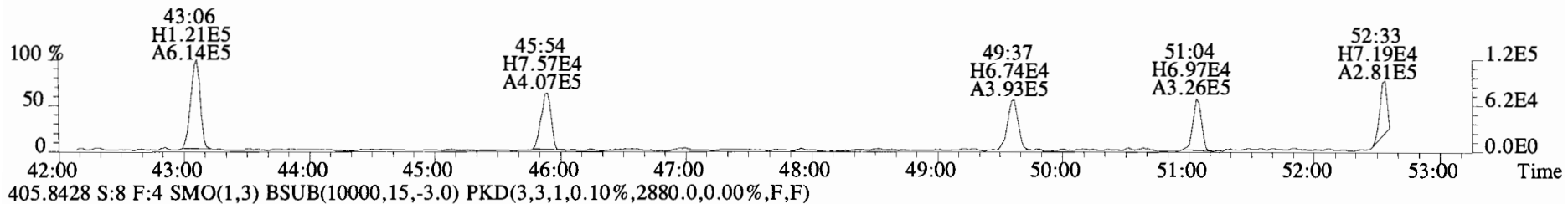
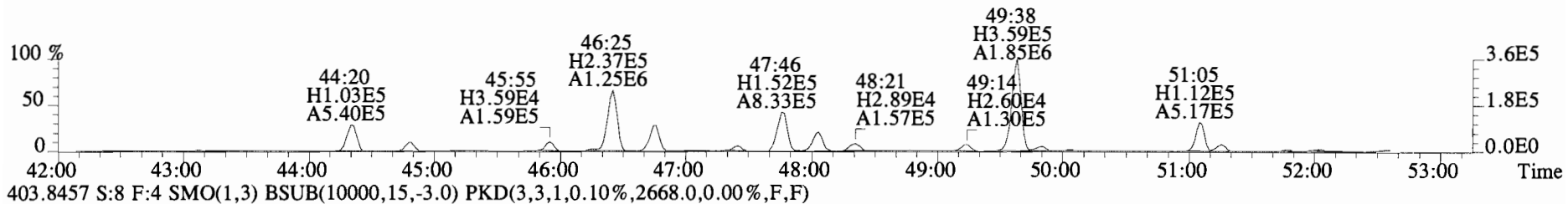
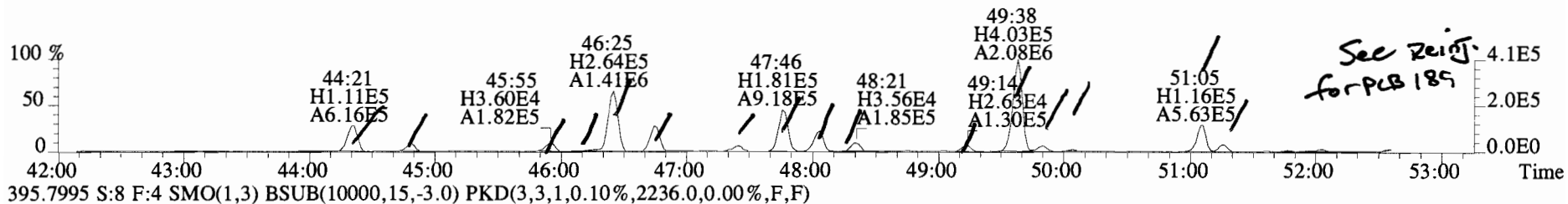
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4600.0,0.00%,F,F)



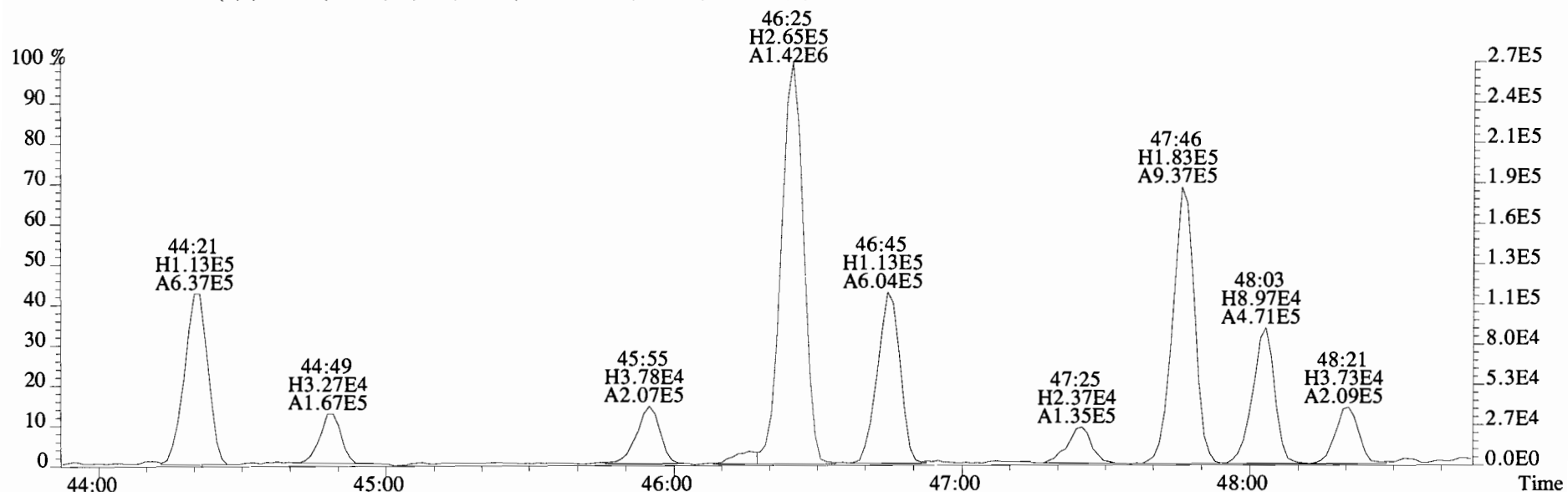
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4600.0,0.00%,F,F)



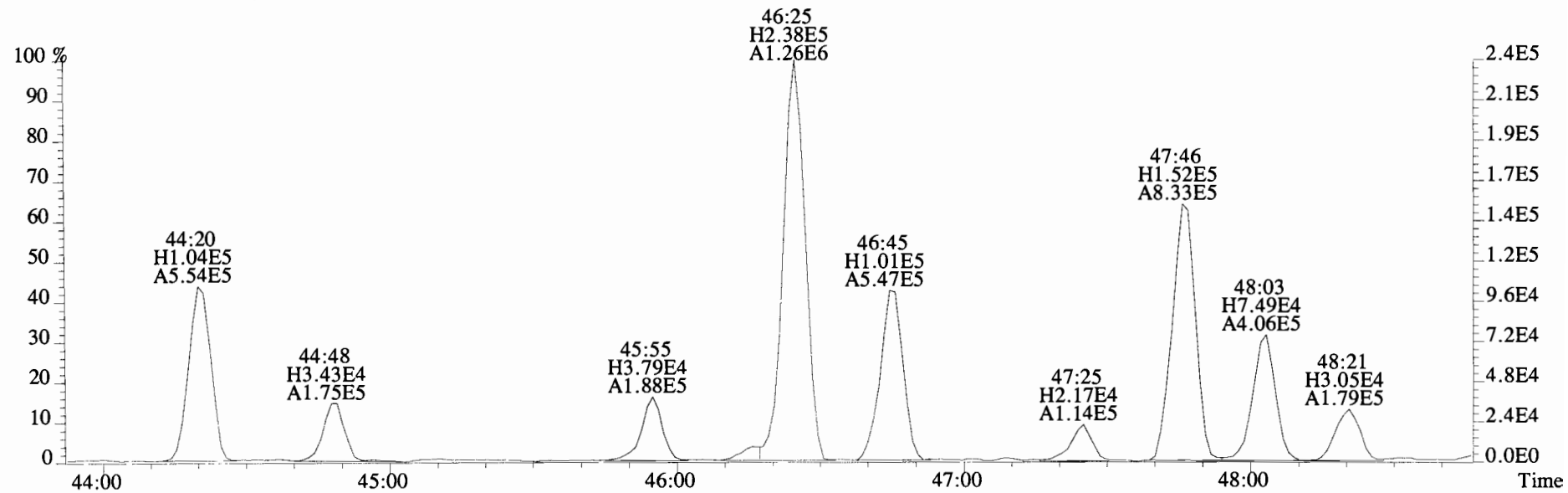
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2520.0,0.00%,F,F)



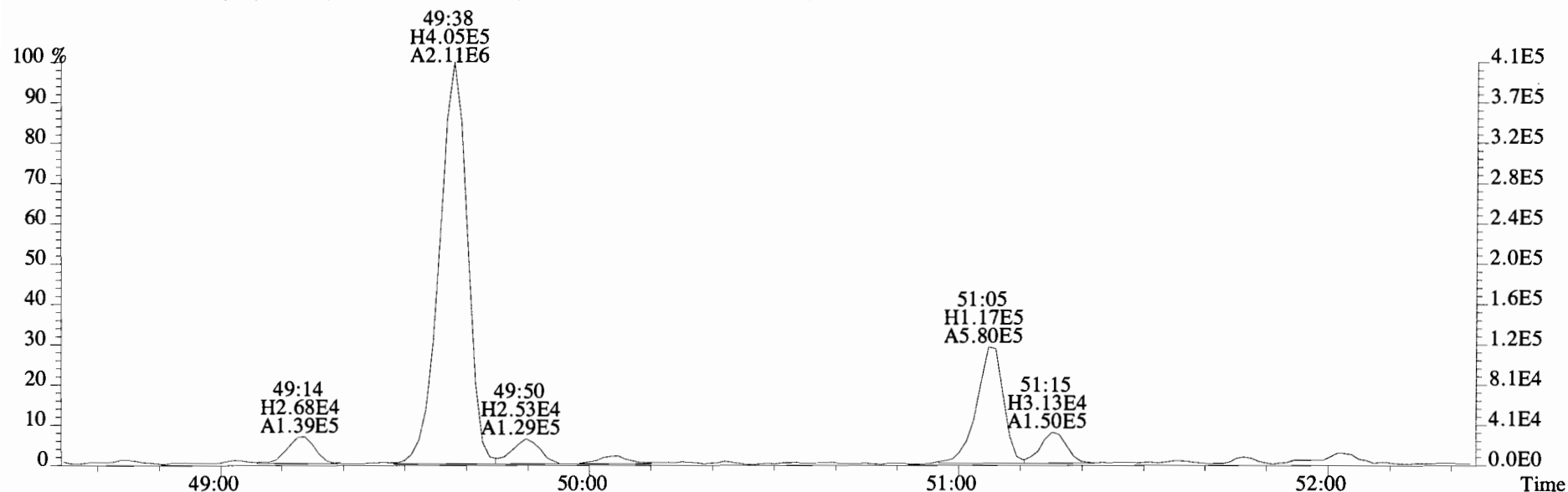
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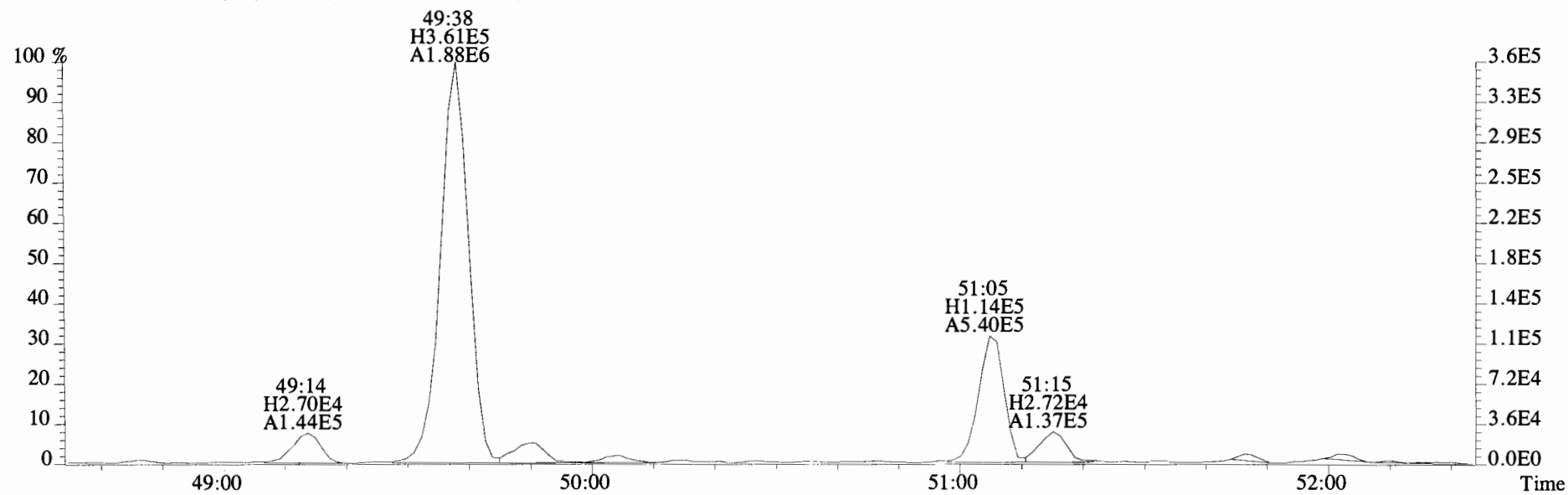
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2236.0,0.00%,F,F)



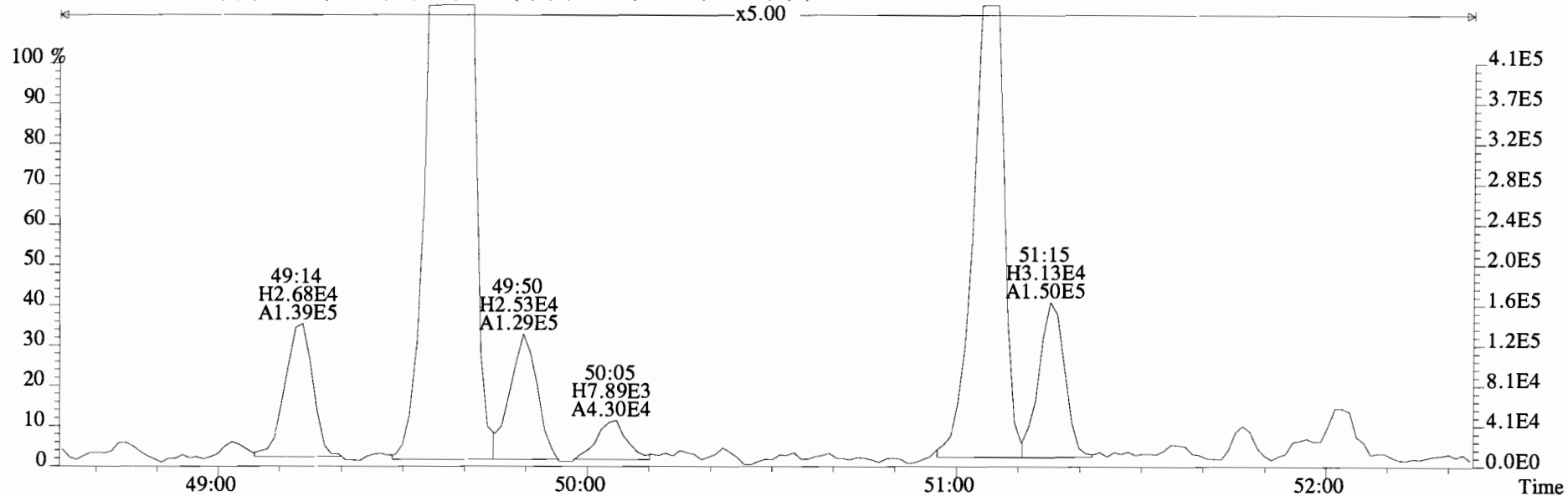
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2520.0,0.00%,F,F)



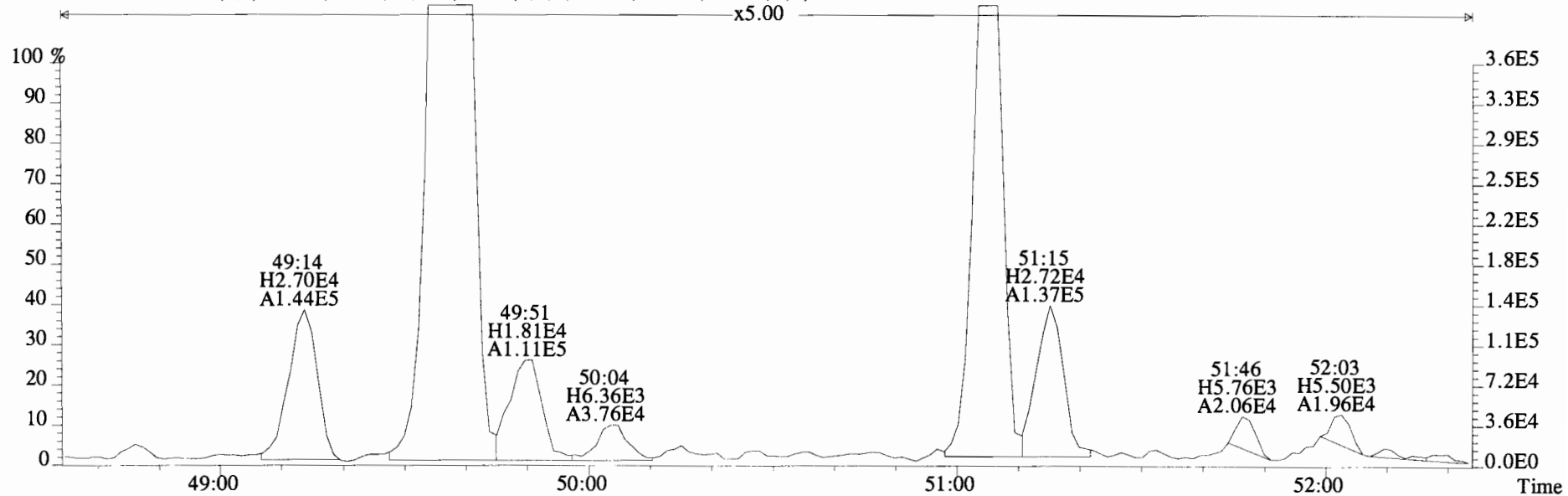
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2236.0,0.00%,F,F)



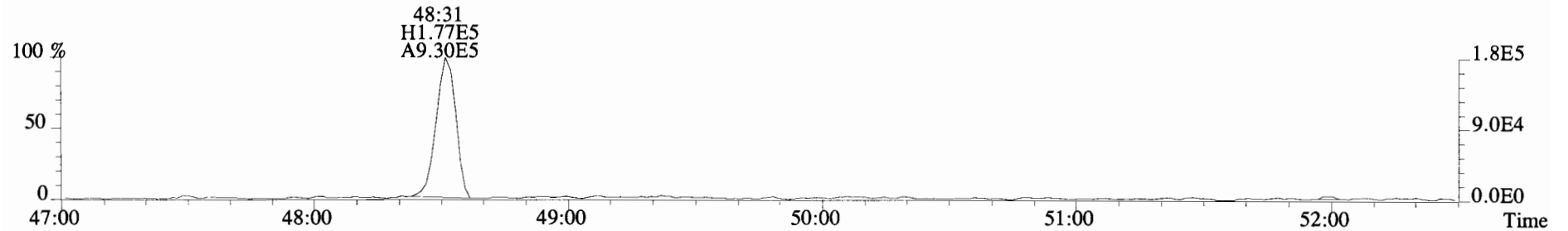
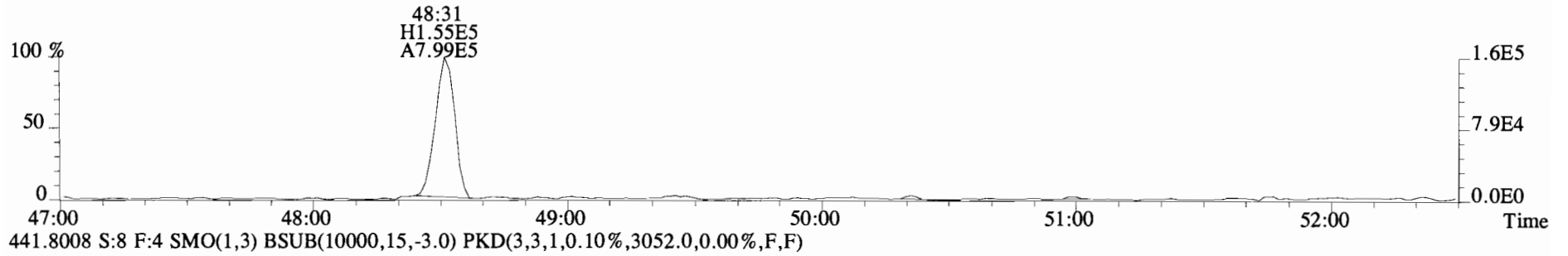
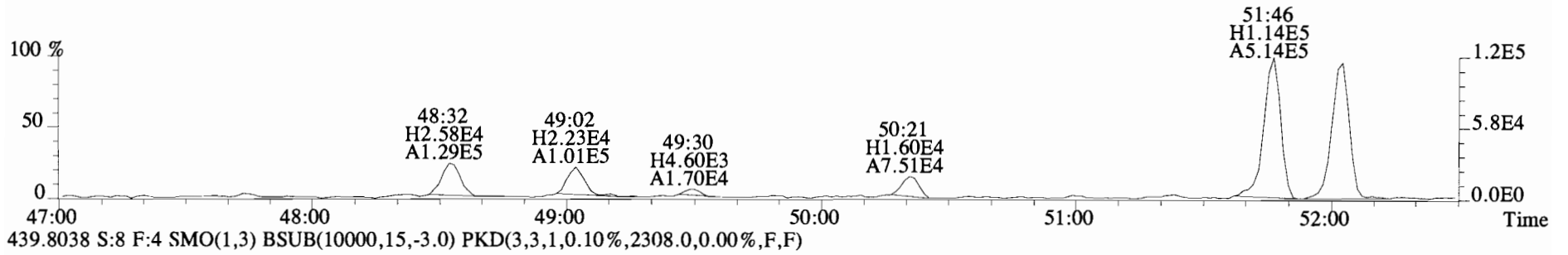
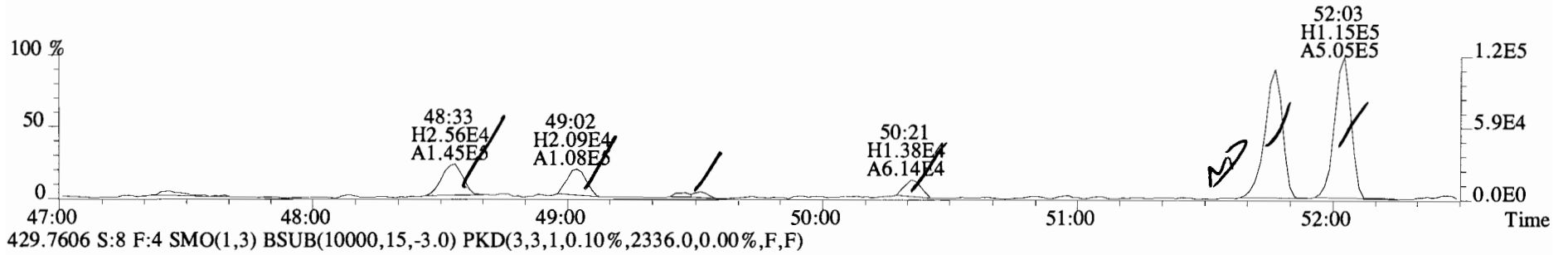
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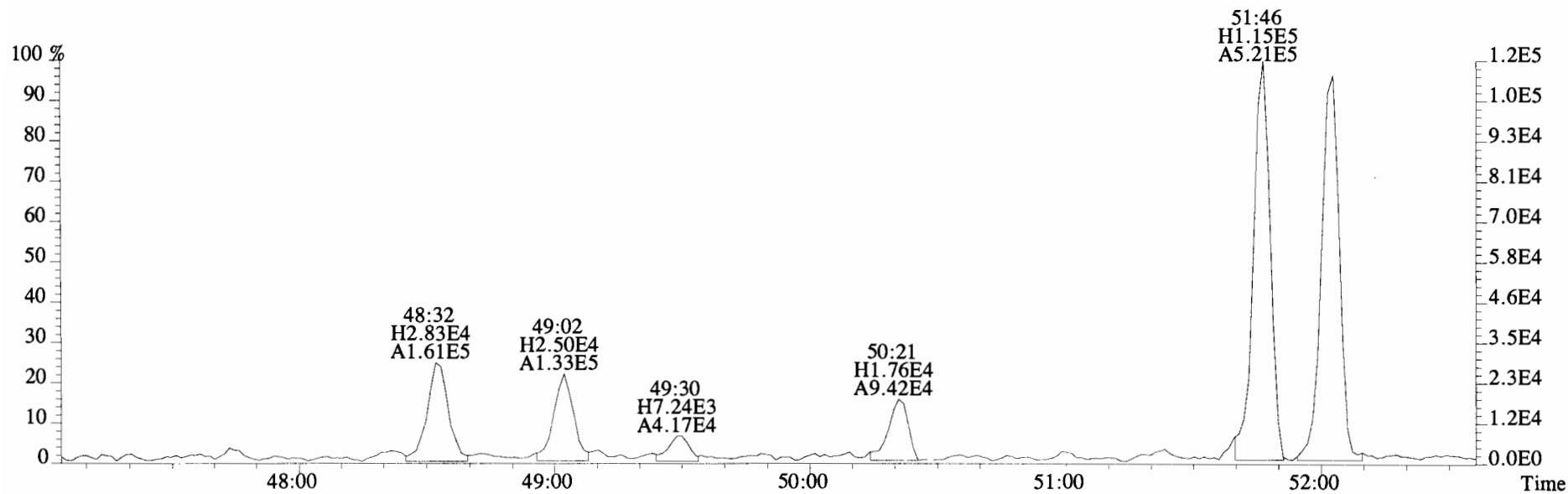
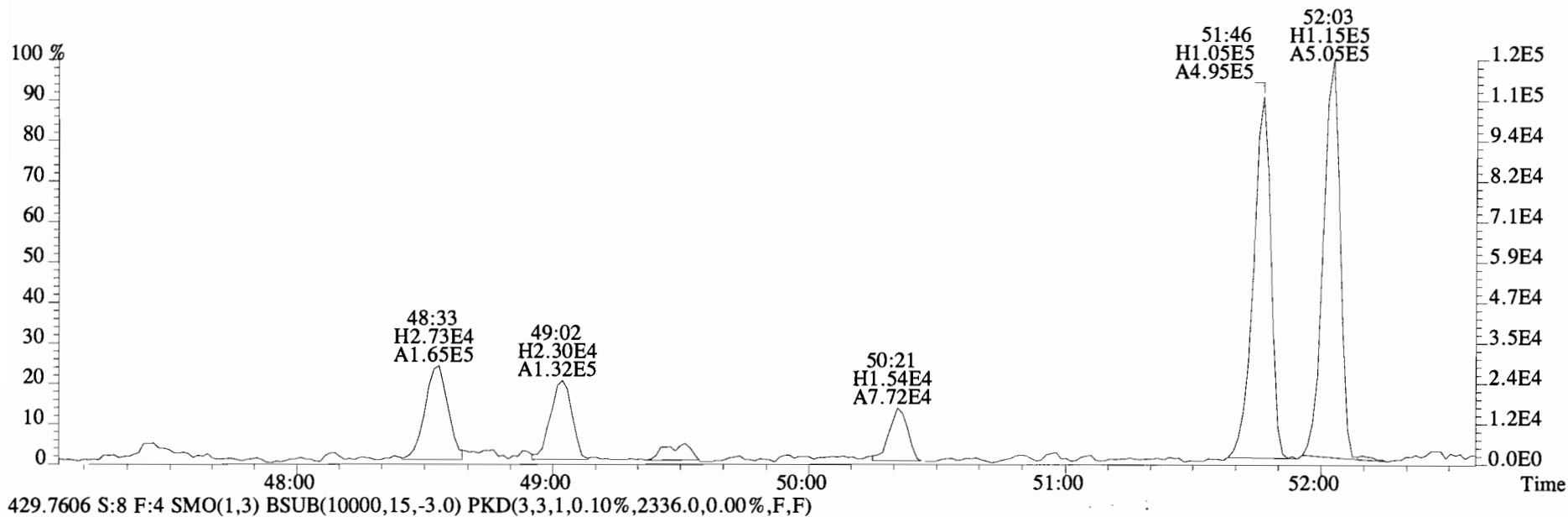
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2236.0,0.00%,F,F)



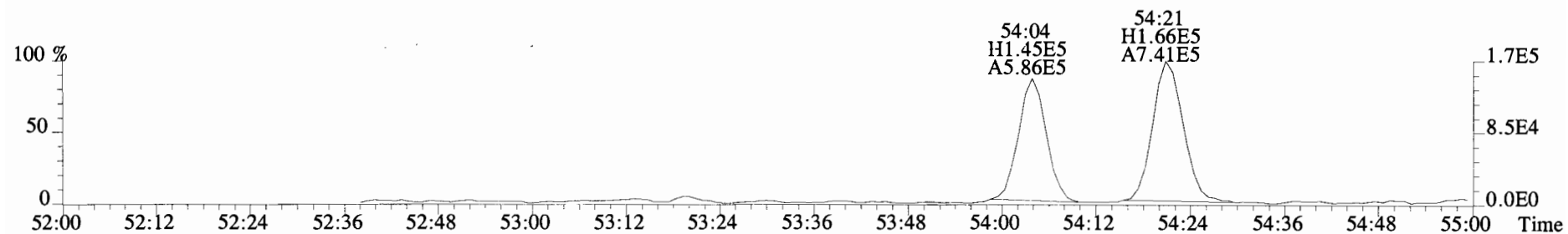
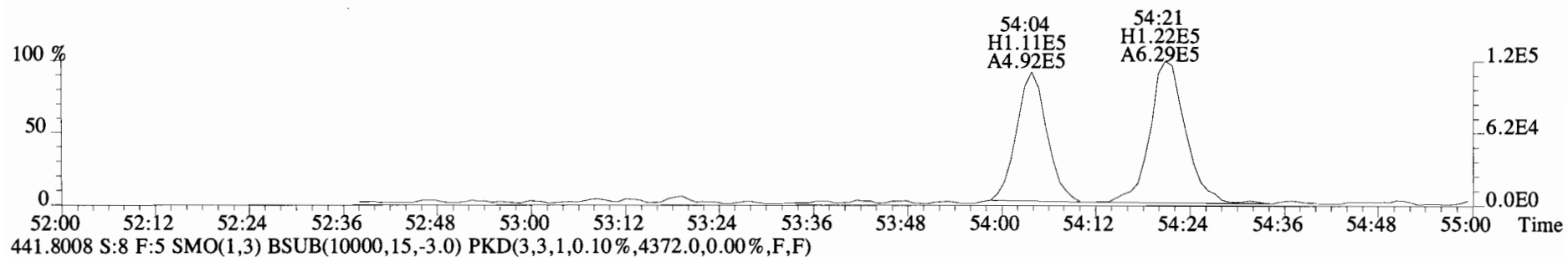
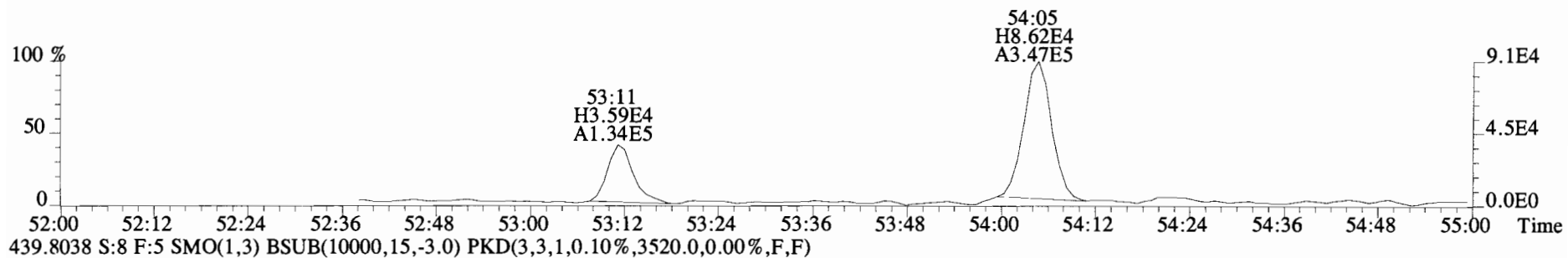
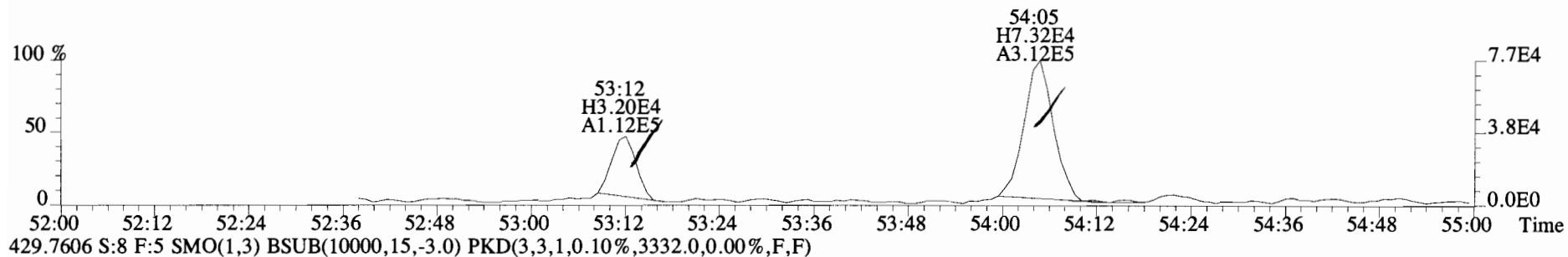
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
427.7635 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2160.0,0.00%,F,F)



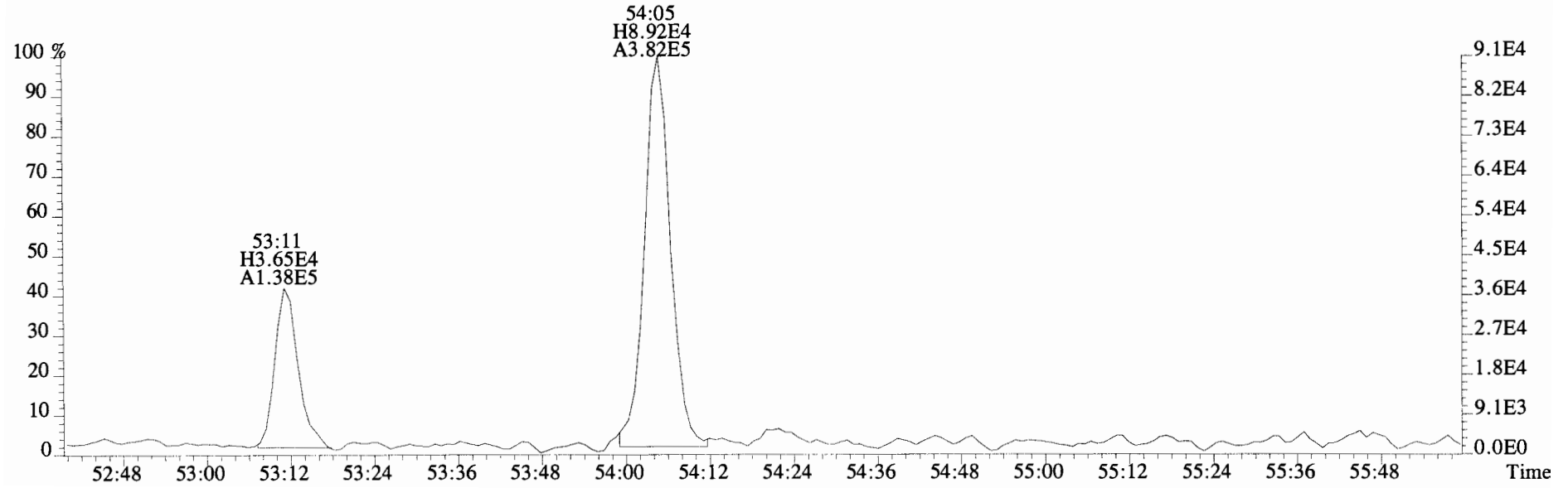
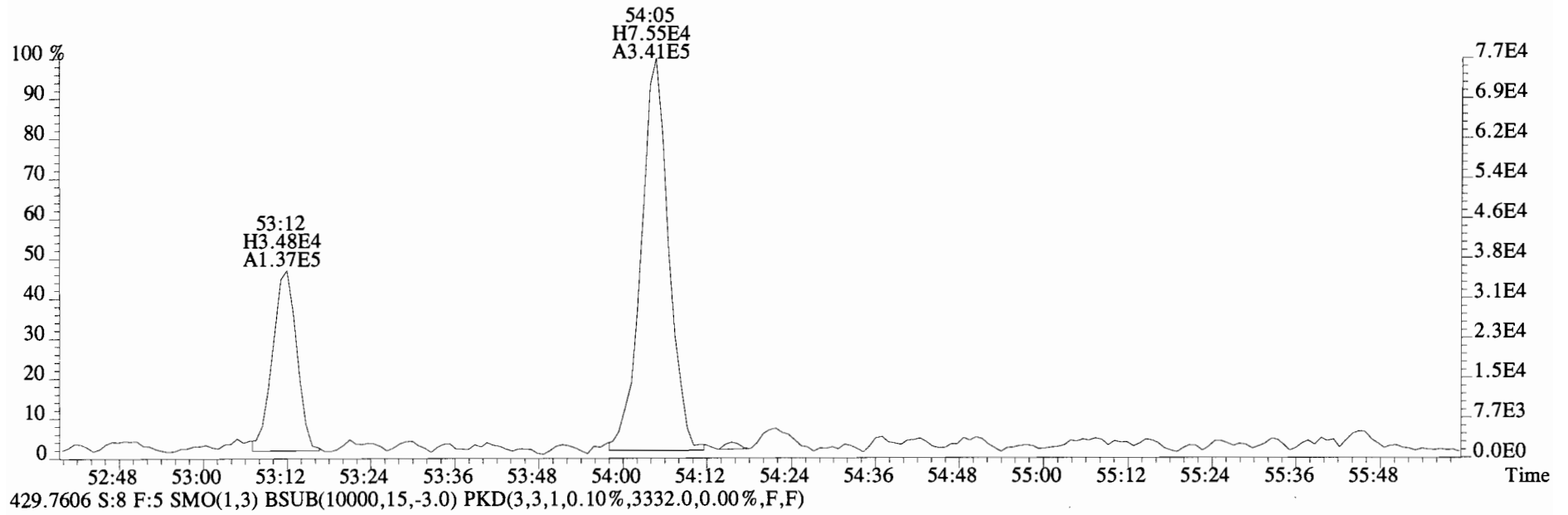
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
427.7635 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2160.0,0.00%,F,F)



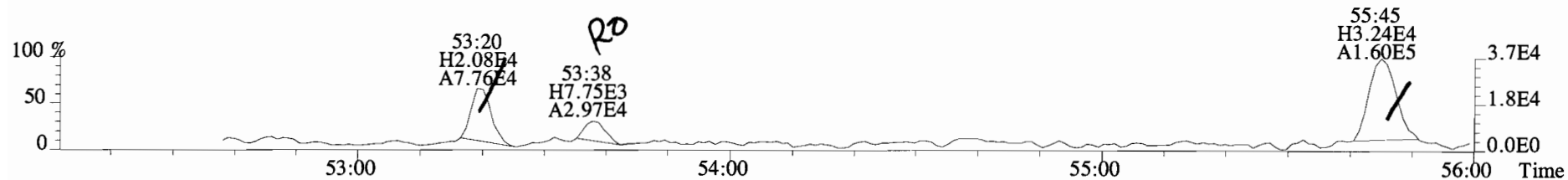
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
427.7635 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3020.0,0.00%,F,F)



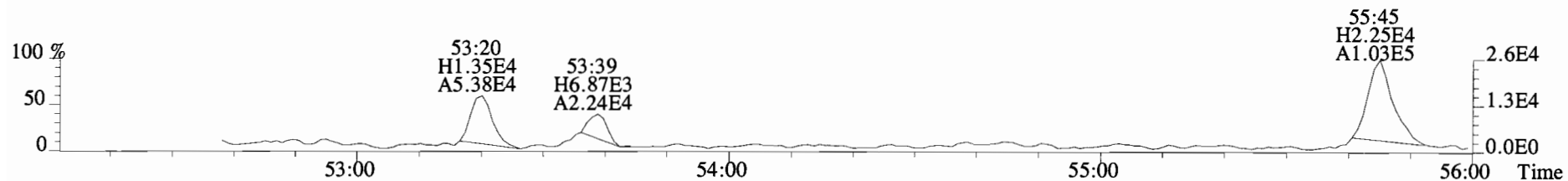
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
427.7635 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3020.0,0.00%,F,F)



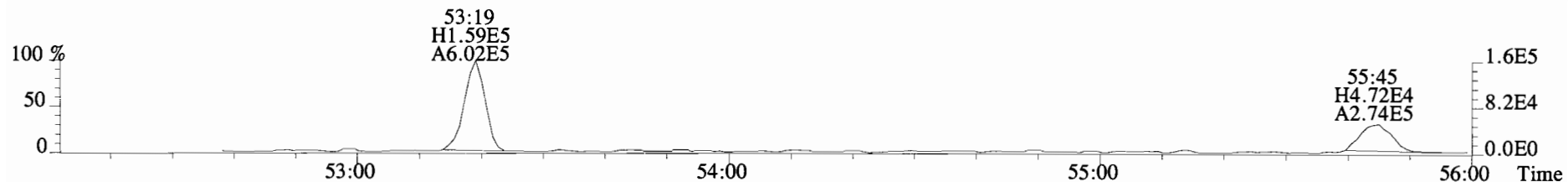
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
463.7216 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3544.0,0.00%,F,F)



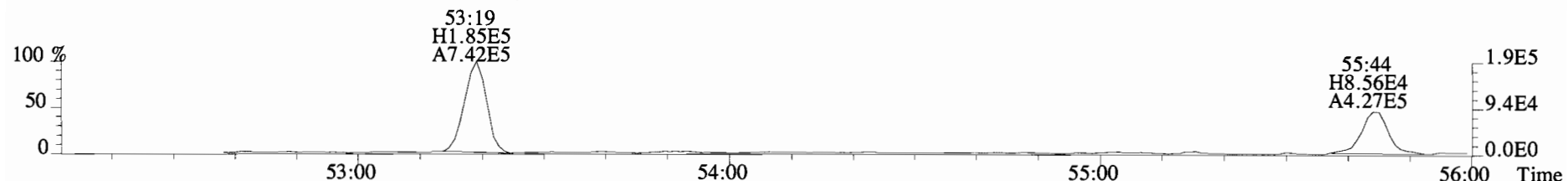
465.7186 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2232.0,0.00%,F,F)



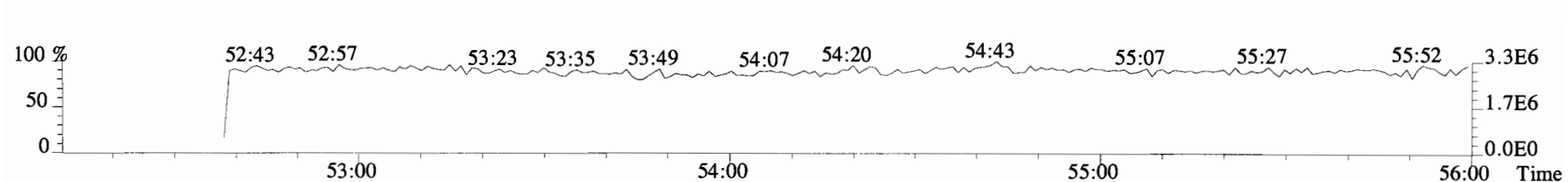
473.7648 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4768.0,0.00%,F,F)



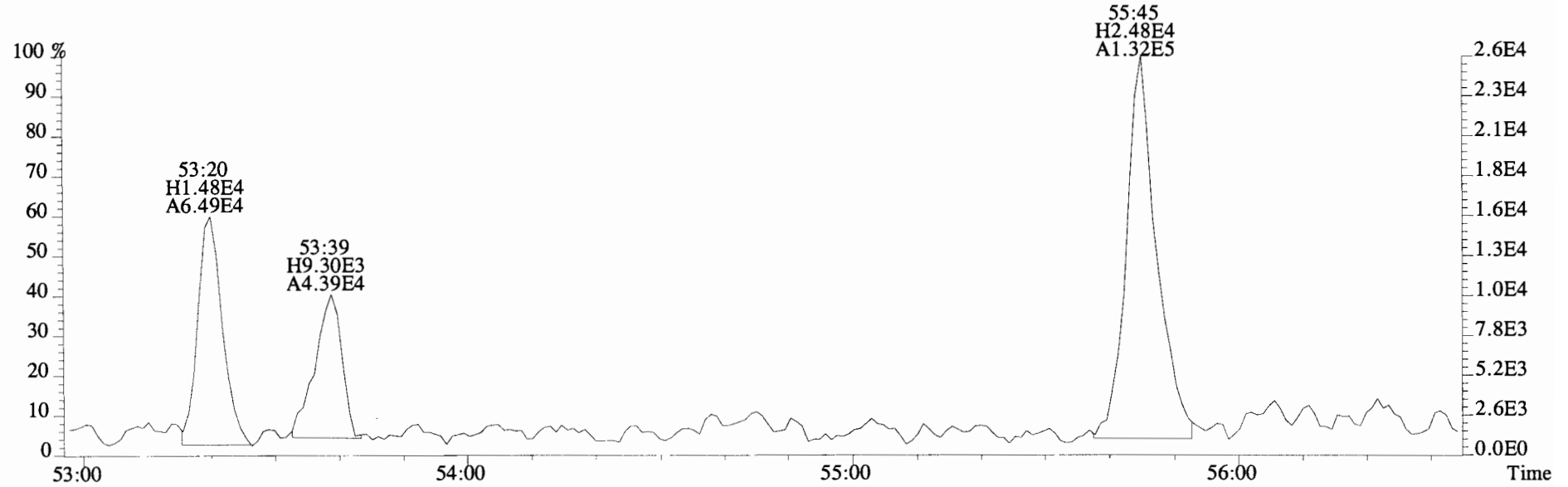
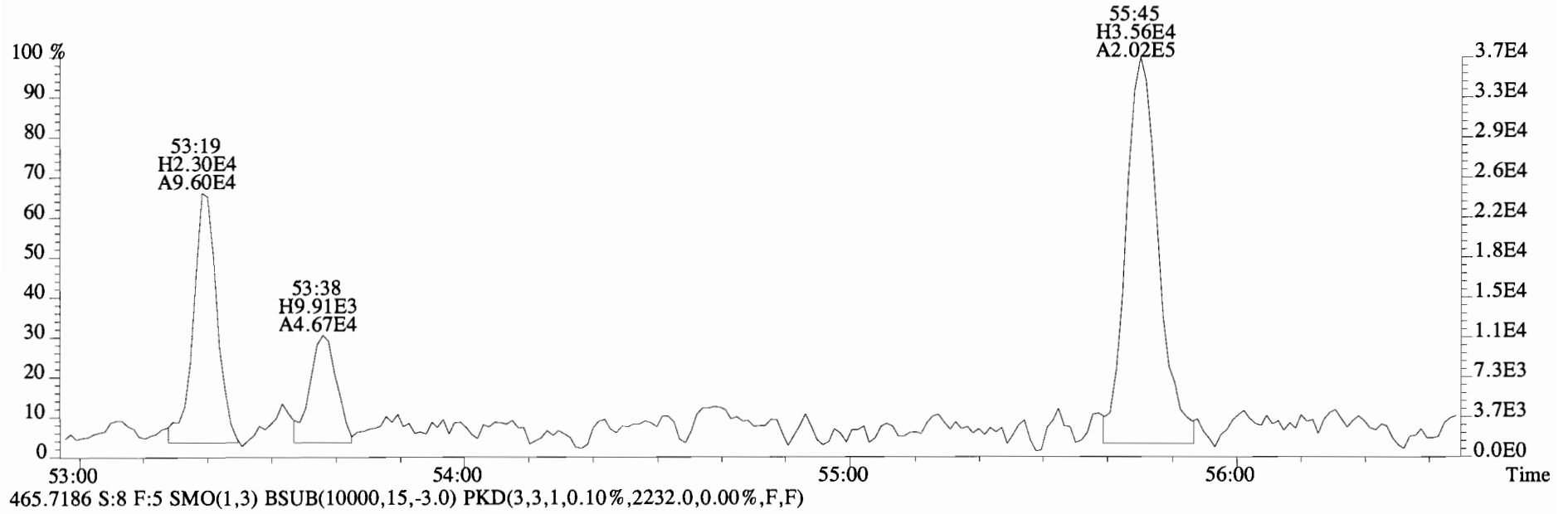
475.7619 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3756.0,0.00%,F,F)



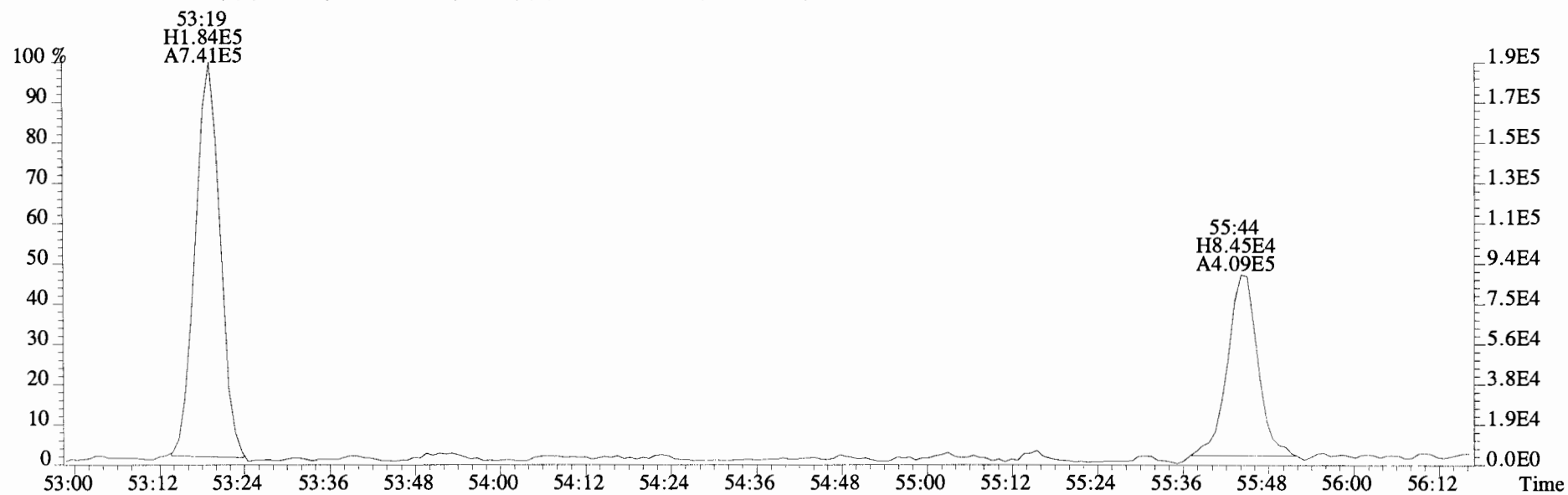
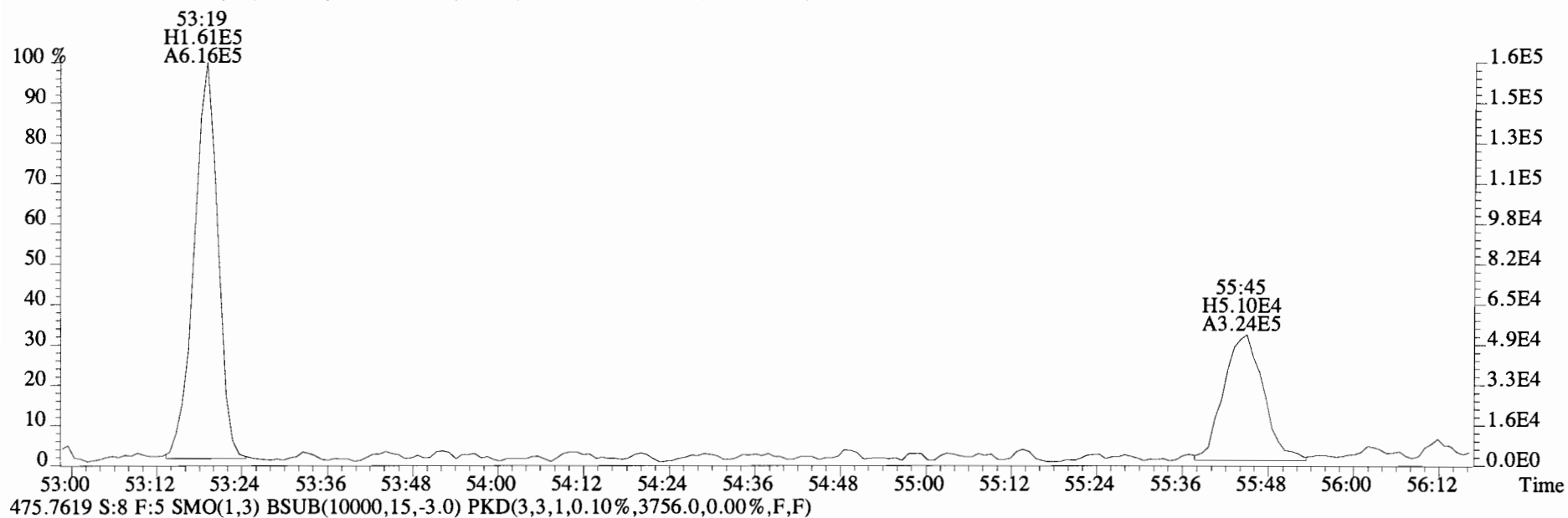
492.9697 S:8 F:5



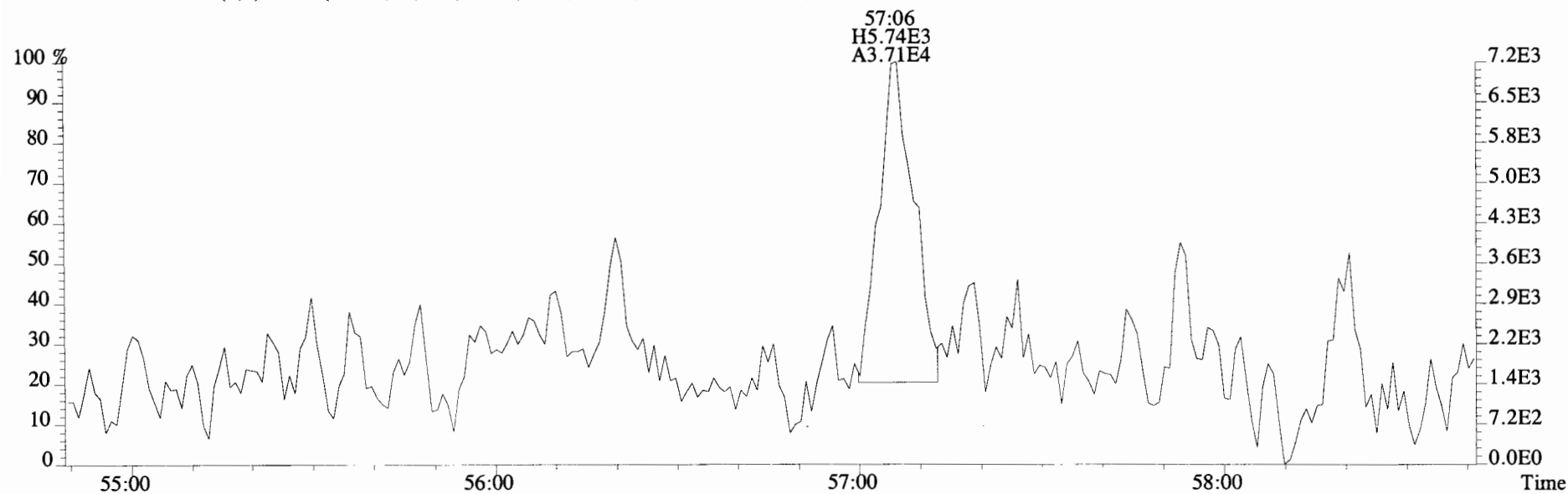
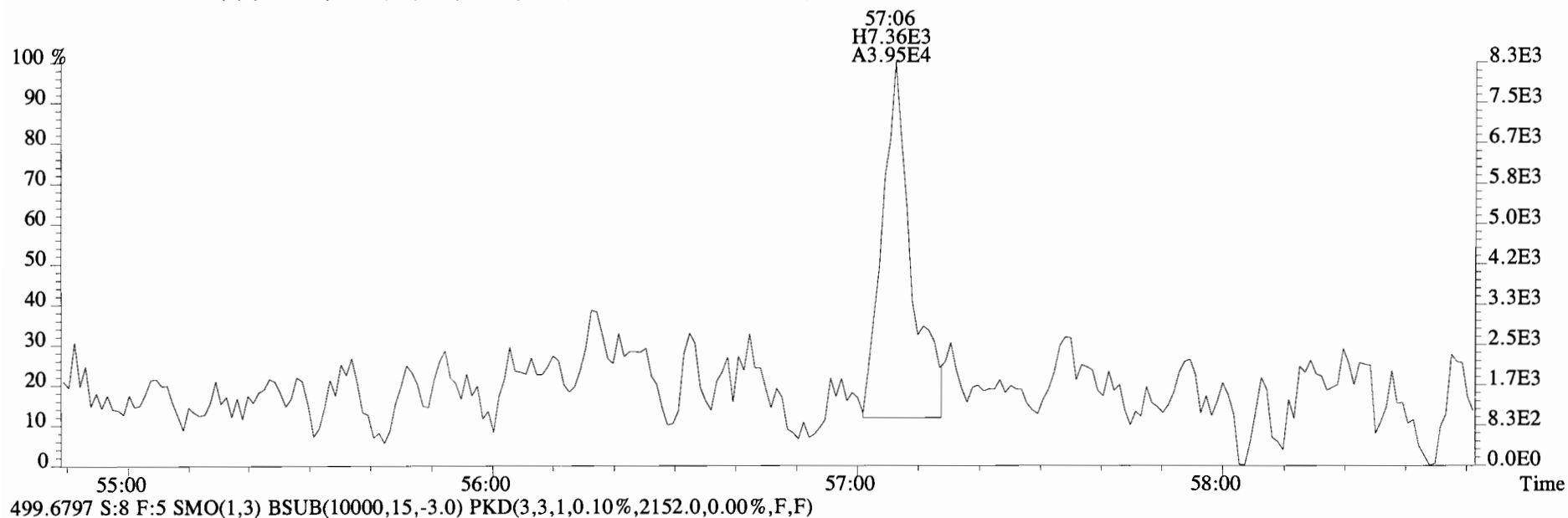
File:140919E2 #1-429 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
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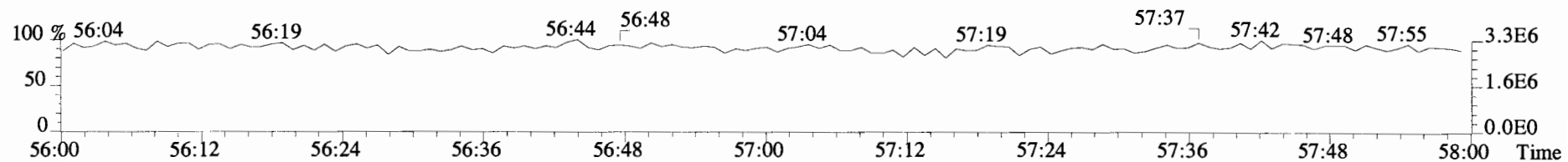
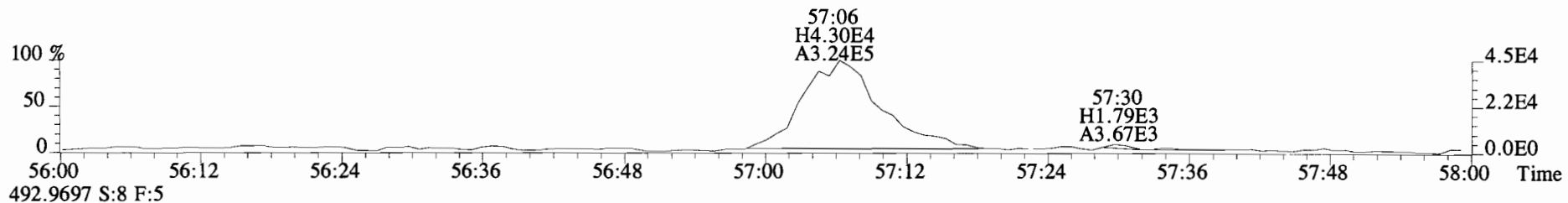
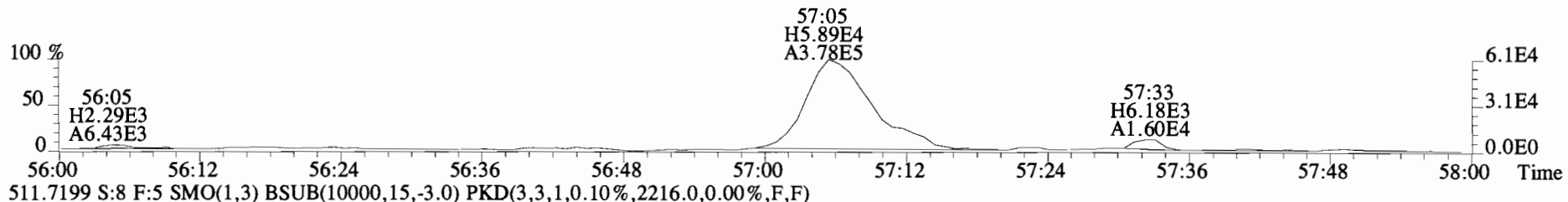
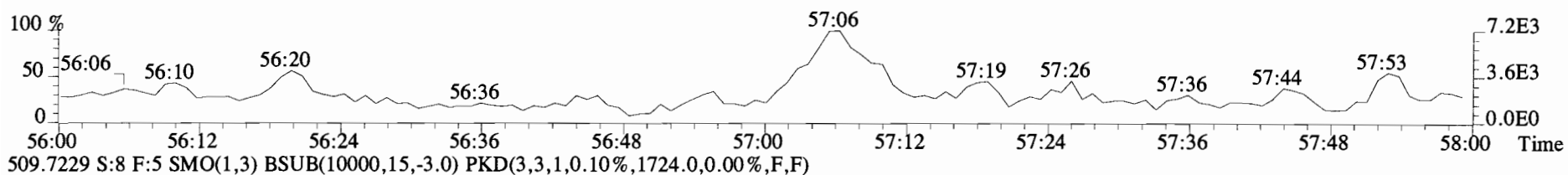
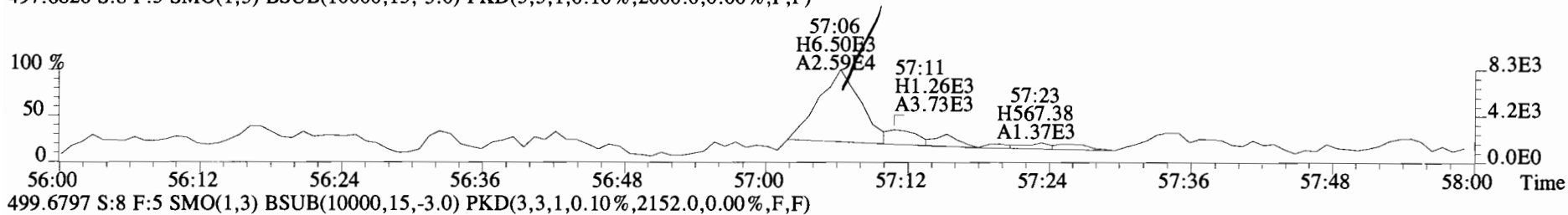
File:140919E2 #1-429 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
473.7648 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4768.0,0.00%,F,F)



File:140919E2 #1-429 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text: Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
497.6826 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2000.0,0.00%,F,F)



File:140919E2 #1-429 Acq:20-SEP-2014 07:13:59 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 PS-TS-01-20140909-S 13.41 Exp:PCB_ZB1
 497.6826 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2000.0,0.00%,F,F)



| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|--------------|----------|------|----------------|------|------|------|-------|-----|------|-------|-------------|-----|
| Mono | PCB-1 | * | * | n Not F η | 1.19 | * | | * | 2.5 | * | * | 0.996-1.006 | |
| Mono | PCB-2 | * | * | n Not F η | 1.18 | * | | * | 2.5 | * | * | 0.984-0.994 | |
| Mono | PCB-3 | * | * | n Not F η | 1.43 | * | | * | 2.5 | * | * | 0.996-1.006 | |
| Di | PCB-4/10 | * | * | n Not F η | 1.57 | * | | * | 2.5 | * | * | 0.997-1.007 | |
| Di | PCB-7/9 | * | * | n Not F η | 1.21 | * | | * | 2.5 | * | * | 0.866-0.874 | |
| Di | PCB-6 | * | * | n Not F η | 1.30 | * | | * | 2.5 | * | * | 0.890-0.899 | |
| Di | PCB-5/8 | * | * | n Not F η | 1.15 | * | | * | 2.5 | * | * | 0.907-0.917 | |
| Di | PCB-14 | * | * | n Not F η | 1.11 | * | | * | 2.5 | * | * | 0.949-0.959 | |
| Di | PCB-11 | * | * | n Not F η | 1.09 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Di | PCB-12/13 | * | * | n Not F η | 1.19 | * | | * | 2.5 | * | * | 1.011-1.021 | |
| Di | PCB-15 | * | * | n Not F η | 1.28 | * | | * | 2.5 | * | * | 1.023-1.033 | |
| Tri | PCB-19 | * | * | n Not F η | 1.04 | * | | * | 2.5 | * | * | 0.996-1.006 | |
| Tri | PCB-30 | * | * | n Not F η | 1.71 | * | | * | 2.5 | * | * | 1.032-1.042 | |
| Tri | PCB-18 | * | * | n Not F η | 0.78 | * | | * | 2.5 | * | * | 0.949-0.959 | |
| Tri | PCB-17 | * | * | n Not F η | 0.92 | * | | * | 2.5 | * | * | 0.956-0.966 | |
| Tri | PCB-24/27 | * | * | n Not F η | 1.19 | * | | * | 2.5 | * | * | 0.977-0.987 | |
| Tri | PCB-16/32 | * | * | n Not F η | 0.94 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Tri | PCB-34 | * | * | n Not F η | 1.14 | * | | * | 2.5 | * | * | 0.955-0.965 | |
| Tri | PCB-23 | * | * | n Not F η | 1.28 | * | | * | 2.5 | * | * | 0.959-0.969 | |
| Tri | PCB-29 | * | * | n Not F η | 1.08 | * | | * | 2.5 | * | * | 0.967-0.977 | |
| Tri | PCB-26 | * | * | n Not F η | 1.21 | * | | * | 2.5 | * | * | 0.974-0.984 | |
| Tri | PCB-25 | * | * | n Not F η | 1.26 | * | | * | 2.5 | * | * | 0.979-0.989 | |
| Tri | PCB-31 | * | * | n Not F η | 1.28 | * | | * | 2.5 | * | * | 0.992-1.002 | |
| Tri | PCB-28 | * | * | n Not F η | 1.71 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Tri | PCB-20/21/33 | * | * | n Not F η | 1.08 | * | | * | 2.5 | * | * | 1.017-1.027 | |
| Tri | PCB-22 | * | * | n Not F η | 1.21 | * | | * | 2.5 | * | * | 1.032-1.042 | |
| Tri | PCB-36 | * | * | n Not F η | 1.14 | * | | * | 2.5 | * | * | 0.928-0.938 | |
| Tri | PCB-39 | * | * | n Not F η | 1.12 | * | | * | 2.5 | * | * | 0.943-0.953 | |
| Tri | PCB-38 | * | * | n Not F η | 1.20 | * | | * | 2.5 | * | * | 0.966-0.976 | |
| Tri | PCB-35 | * | * | n Not F η | 1.23 | * | | * | 2.5 | * | * | 0.982-0.992 | |
| Tri | PCB-37 | * | * | n Not F η | 1.23 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Tetra | PCB-54 | * | * | n Not F η | 1.10 | * | | * | 2.5 | 14.6 | * | 0.996-1.006 | |
| Tetra | PCB-50 | * | * | n Not F η | 0.88 | * | | * | 2.5 | 18.3 | * | 1.037-1.047 | |
| Tetra | PCB-53 | 5.87e+04 | 0.97 | n 29:56 | 1.06 | 26.0 | | * | 2.5 | * | 0.946 | 0.942-0.952 | |
| Tetra | PCB-51 | * | * | n Not F η | 0.99 | * | | * | 2.5 | 19.4 | * | 0.952-0.962 | |
| Tetra | PCB-45 | 4.49e+04 | 1.18 | n 30:42 | 0.86 | 24.5 | | * | 2.5 | * | 0.970 | 0.966-0.976 | |
| Tetra | PCB-46 | * | * | n Not F η | 0.85 | * | | * | 2.5 | 22.7 | * | 0.981-0.991 | |

*
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 R
 R

Integrations by:

Analyst: Dms

Date: 9/26/14

Reviewed by: MP

Date: 9/26/14

R = USED ONLY

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-----------------|----------|------|---------------|------|------|------|-------|-----|------|-------|-------------|-----|
| Tetra | PCB-52/69 | 8.85e+05 | 0.71 | y 31:39 | 1.28 | 326 | * | * | 2.5 | * | 1.001 | 0.996-1.006 | |
| Tetra | PCB-73 | * | * | n NotF η | 1.35 | * | * | 2640 | 2.5 | 18.7 | * | 1.000-1.010 | |
| Tetra | PCB-43/49 | 3.63e+05 | 0.77 | y 31:57 | 0.99 | 172 | * | * | 2.5 | * | 1.010 | 1.005-1.015 | |
| Tetra | PCB-47 | 1.10e+05 | 0.79 | y 32:10 | 1.06 | 48.7 | * | * | 2.5 | * | 1.002 | 0.996-1.006 | |
| Tetra | PCB-48/75 | 9.92e+04 | 0.76 | y 32:16 | 1.23 | 37.8 | * | * | 2.5 | * | 1.005 | 0.999-1.009 | |
| Tetra | PCB-65 | * | * | n NotF η | 1.22 | * | * | 2640 | 2.5 | 22.1 | * | 1.008-1.018 | |
| Tetra | PCB-62 | * | * | n NotF η | 1.22 | * | * | 2640 | 2.5 | 22.2 | * | 1.011-1.021 | |
| Tetra | PCB-44 | 5.07e+05 | 0.71 | y 32:56 | 0.86 | 275 | * | * | 2.5 | * | 1.025 | 1.021-1.031 | |
| Tetra | PCB-42/59 | 1.68e+05 | 0.82 | y 33:10 | 1.14 | 69.0 | * | * | 2.5 | * | 1.033 | 1.028-1.038 | |
| Tetra | PCB-41/64/71/72 | 5.79e+05 | 0.69 | y 33:46 | 1.21 | 224 | * | * | 2.5 | * | 1.051 | 1.046-1.056 | |
| Tetra | PCB-68 | * | * | n NotF η | 1.35 | * | * | 2640 | 2.5 | 20.1 | * | 1.054-1.064 | |
| Tetra | PCB-40 | 1.11e+05 | 0.86 | y 34:13 | 0.70 | 74.1 | * | * | 2.5 | * | 1.065 | 1.061-1.071 | |
| Tetra | PCB-57 | * | * | n NotF η | 0.98 | * | * | 2640 | 2.5 | 23.7 | * | 0.965-0.975 | |
| Tetra | PCB-67 | * | * | n NotF η | 1.11 | * | * | 2640 | 2.5 | 20.9 | * | 0.974-0.984 | |
| Tetra | PCB-58 | * | * | n NotF η | 0.93 | * | * | 2640 | 2.5 | 25.0 | * | 0.977-0.987 | |
| Tetra | PCB-63 | * | * | n NotF η | 0.95 | * | * | 2640 | 2.5 | 24.3 | * | 0.982-0.992 | |
| Tetra | PCB-74 | 3.39e+05 | 0.72 | y 35:27 | 1.24 | 100 | * | * | 2.5 | * | 0.994 | 0.990-1.000 | |
| Tetra | PCB-61/70 | 1.12e+06 | 0.74 | y 35:40 | 0.95 | 432 | * | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| Tetra | PCB-76/66 | 5.84e+05 | 0.78 | y 35:52 | 1.04 | 205 | * | * | 2.5 | * | 1.006 | 1.001-1.011 | |
| Tetra | PCB-80 | * | * | n NotF η | 1.19 | * | * | 2640 | 2.5 | 16.9 | * | 0.996-1.006 | |
| Tetra | PCB-55 | * | * | n NotF η | 1.04 | * | * | 2640 | 2.5 | 19.3 | * | 1.005-1.015 | |
| Tetra | PCB-56/60 | 4.64e+05 | 0.72 | y 36:55 | 1.01 | 163 | * | * | 2.5 | * | 1.024 | 1.019-1.029 | |
| Tetra | PCB-79 | 6.09e+04 | 0.84 | y 37:58 | 1.08 | 20.0 | * | * | 2.5 | * | 1.053 | 1.048-1.058 | |
| Tetra | PCB-78 | * | * | n NotF η | 1.27 | * | * | 2640 | 2.5 | 19.9 | * | 0.982-0.992 | |
| Tetra | PCB-81 | * | * | n NotF η | 1.33 | * | * | 2640 | 2.5 | 19.0 | * | 0.995-1.005 | |
| Tetra | PCB-77 | 3.33e+05 | 0.84 | y 39:48 | 1.10 | 127 | * | * | 2.5 | * | 1.001 | 0.995-1.005 | |
| Penta | PCB-104 | * | * | n NotF η | 1.18 | * | * | * | 2.5 | * | * | 0.996-1.006 | |
| Penta | PCB-96 | * | * | n NotF η | 1.14 | * | * | * | 2.5 | * | * | 1.034-1.044 | |
| Penta | PCB-103 | * | * | n NotF η | 0.96 | * | * | * | 2.5 | * | * | 1.050-1.060 | |
| Penta | PCB-100 | * | * | n NotF η | 0.94 | * | * | * | 2.5 | * | * | 1.061-1.071 | |
| Penta | PCB-94 | * | * | n NotF η | 1.06 | * | * | * | 2.5 | * | * | 0.980-0.990 | |
| Penta | PCB-95/98/102 | * | * | n NotF η | 1.22 | * | * | * | 2.5 | * | * | 0.995-1.005 | |
| Penta | PCB-93 | * | * | n NotF η | 0.84 | * | * | * | 2.5 | * | * | 0.997-1.007 | |
| Penta | PCB-88/91 | * | * | n NotF η | 1.12 | * | * | * | 2.5 | * | * | 1.005-1.015 | |
| Penta | PCB-121 | * | * | n NotF η | 1.62 | * | * | * | 2.5 | * | * | 1.009-1.019 | |
| Penta | PCB-84/92 | * | * | n NotF η | 1.05 | * | * | * | 2.5 | * | * | 0.985-0.995 | |
| Penta | PCB-89 | * | * | n NotF η | 1.13 | * | * | * | 2.5 | * | * | 0.991-1.001 | |

* = used only

Analyst: DMS

Date: 9/26/14

Client ID: PS-TS-01-20140909-S
Lab ID: 1400659-03RE1 DL 1:20

Filename: 140924E1 S:7 Acq:24-SEP-14 17:35:34
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:10.115

ConCal: ST140924E1-2
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-----------------|----------|--------|-------------|------|------|-------------|-------|-----|----|-------|-------------|-----|
| Hexa | PCB-133/142 | * | * n | NotF η | 0.82 | * | | * | 2.5 | * | * | 0.977-0.987 | |
| Hexa | PCB-131 | * | * n | NotF η | 0.91 | * | | * | 2.5 | * | * | 0.981-0.991 | |
| Hexa | PCB-146/165 | * | * n | NotF η | 1.25 | * | | * | 2.5 | * | * | 0.986-0.996 | |
| Hexa | PCB-132/161 | * | * n | NotF η | 1.10 | * | | * | 2.5 | * | * | 0.992-1.002 | |
| Hexa | PCB-153 | * | * n | NotF η | 1.25 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Hexa | PCB-168 | * | * n | NotF η | 1.45 | * | | * | 2.5 | * | * | 1.001-1.011 | |
| Hexa | PCB-141 | * | * n | NotF η | 1.09 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Hexa | PCB-137 | * | * n | NotF η | 1.06 | * | | * | 2.5 | * | * | 1.004-1.014 | |
| Hexa | PCB-130 | * | * n | NotF η | 0.96 | * | | * | 2.5 | * | * | 1.006-1.016 | |
| Hexa | PCB-138/163/164 | * | * n | NotF η | 1.29 | * | | * | 2.5 | * | * | 0.996-1.006 | |
| Hexa | PCB-158/160 | * | * n | NotF η | 1.34 | * | | * | 2.5 | * | * | 1.001-1.011 | |
| Hexa | PCB-129 | * | * n | NotF η | 0.85 | * | | * | 2.5 | * | * | 1.007-1.017 | |
| Hexa | PCB-166 | * | * n | NotF η | 1.19 | * | | * | 2.5 | * | * | 0.988-0.998 | |
| Hexa | PCB-159 | * | * n | NotF η | 1.11 | * | | * | 2.5 | * | * | 0.996-1.006 | |
| Hexa | PCB-128/162 | * | * n | NotF η | 1.05 | * | | * | 2.5 | * | * | 1.002-1.012 | |
| Hexa | PCB-167 | 1.73e+05 | 1.12 y | 46:58 | 1.20 | 77.0 | * used only | * | 2.5 | * | 1.001 | 0.995-1.005 | |
| Hexa | PCB-156 | * | * n | NotF η | 1.14 | * | | * | 2.5 | * | * | 0.996-1.006 | |
| Hexa | PCB-157 | * | * n | NotF η | 1.16 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Hexa | PCB-169 | * | * n | NotF η | 1.12 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Hepta | PCB-188 | * | * n | NotF η | 1.58 | * | | * | 2.5 | * | * | 0.996-1.006 | |
| Hepta | PCB-184 | * | * n | NotF η | 1.63 | * | | * | 2.5 | * | * | 1.006-1.016 | |
| Hepta | PCB-179 | * | * n | NotF η | 1.30 | * | | * | 2.5 | * | * | 1.024-1.034 | |
| Hepta | PCB-176 | * | * n | NotF η | 1.48 | * | | * | 2.5 | * | * | 1.035-1.045 | |
| Hepta | PCB-186 | * | * n | NotF η | 1.45 | * | | * | 2.5 | * | * | 1.050-1.060 | |
| Hepta | PCB-178 | * | * n | NotF η | 1.03 | * | | * | 2.5 | * | * | 1.061-1.071 | |
| Hepta | PCB-175 | * | * n | NotF η | 1.01 | * | | * | 2.5 | * | * | 1.069-1.079 | |
| Hepta | PCB-182/187 | * | * n | NotF η | 1.25 | * | | * | 2.5 | * | * | 1.073-1.083 | |
| Hepta | PCB-183 | * | * n | NotF η | 1.21 | * | | * | 2.5 | * | * | 1.081-1.091 | |
| Hepta | PCB-185 | * | * n | NotF η | 1.80 | * | | * | 2.5 | * | * | 0.951-0.961 | |
| Hepta | PCB-174 | * | * n | NotF η | 1.38 | * | | * | 2.5 | * | * | 0.958-0.968 | |
| Hepta | PCB-181 | * | * n | NotF η | 1.38 | * | | * | 2.5 | * | * | 0.960-0.970 | |
| Hepta | PCB-177 | * | * n | NotF η | 1.26 | * | | * | 2.5 | * | * | 0.963-0.973 | |
| Hepta | PCB-171 | * | * n | NotF η | 1.58 | * | | * | 2.5 | * | * | 0.970-0.980 | |
| Hepta | PCB-173 | * | * n | NotF η | 1.11 | * | | * | 2.5 | * | * | 0.978-0.988 | |
| Hepta | PCB-172 | * | * n | NotF η | 1.63 | * | | * | 2.5 | * | * | 0.987-0.997 | |
| Hepta | PCB-192 | * | * n | NotF η | 1.74 | * | | * | 2.5 | * | * | 0.991-1.001 | |
| Hepta | PCB-180 | * | * n | NotF η | 1.34 | * | | * | 2.5 | * | * | 0.995-1.005 | |

Analyst: DMS

Date: 9/26/14

Client ID: PS-TS-01-20140909-S
Lab ID: 1400659-03RE1 DL 1:20

Filename: 140924E1
GC Column ID: ZB-1

S:7 Acq:24-SEP-14 17:35:34
ICal: PCBVG8-6-23-14 wt/vol:10.115

ConCal: ST140924E1-2
EndCAL: NA

| Type | Name | Resp | RA | RT | RRF | Conc | Qual | noise | Fac | DL | RRT | LCL | UCL |
|-------|-------------|----------|--------|-------|------|------|------|-------|------------------|----|-------|-------------|-----|
| Hepta | PCB-193 | * | * n | NotFη | 1.72 | * | | * | 2.5 | * | * | 0.999-1.009 | |
| Hepta | PCB-191 | * | * n | NotFη | 1.69 | * | | * | 2.5 | * | * | 1.004-1.014 | |
| Hepta | PCB-170 | * | * n | NotFη | 1.60 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Hepta | PCB-190 | * | * n | NotFη | 2.21 | * | | * | 2.5 | * | * | 0.998-1.008 | |
| Hepta | PCB-189 | 6.81e+04 | 1.28 n | 52:29 | 1.55 | 56.3 | R | * | 2.5 | * | 1.000 | 0.995-1.005 | |
| | | | | | | | | | <i>used only</i> | | | | |
| Octa | PCB-202 | * | * n | NotFη | 1.08 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Octa | PCB-201 | * | * n | NotFη | 1.15 | * | | * | 2.5 | * | * | 1.005-1.015 | |
| Octa | PCB-204 | * | * n | NotFη | 1.14 | * | | * | 2.5 | * | * | 1.008-1.018 | |
| Octa | PCB-197 | * | * n | NotFη | 1.07 | * | | * | 2.5 | * | * | 1.015-1.025 | |
| Octa | PCB-200 | * | * n | NotFη | 1.06 | * | | * | 2.5 | * | * | 1.032-1.044 | |
| Octa | PCB-198 | * | * n | NotFη | 0.76 | * | | * | 2.5 | * | * | 1.059-1.069 | |
| Octa | PCB-199 | * | * n | NotFη | 0.80 | * | | * | 2.5 | * | * | 1.061-1.071 | |
| Octa | PCB-196/203 | * | * n | NotFη | 0.80 | * | | * | 2.5 | * | * | 1.066-1.076 | |
| Octa | PCB-195 | * | * n | NotFη | 1.23 | * | | * | 2.5 | * | * | 0.979-0.989 | |
| Octa | PCB-194 | * | * n | NotFη | 1.21 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Octa | PCB-205 | * | * n | NotFη | 1.54 | * | | * | 2.5 | * | * | 1.001-1.011 | |
| Nona | PCB-208 | * | * n | NotFη | 0.93 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Nona | PCB-207 | * | * n | NotFη | 1.08 | * | | * | 2.5 | * | * | 1.001-1.011 | |
| Nona | PCB-206 | * | * n | NotFη | 1.02 | * | | * | 2.5 | * | * | 0.995-1.005 | |
| Deca | PCB-209 | * | * n | NotFη | 1.17 | * | | * | 2.5 | * | * | 0.995-1.005 | |

Analyst: DMS

Date: 9/26/14

| 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 | 5.72e+06 | 0.71 y | 31:39 | 1.09 | 2274.75 | |
| 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 | 1.73e+05 | 1.12 y | 46:58 | 1.11 | 77.0334 | Sum:77.0334 |
| Total Hepta-PCB | * | * n | NotFnd | 1.42 | * | |
| 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:2458.68790300

Integrations
by
Analyst: DMS
Date: 9/26/14

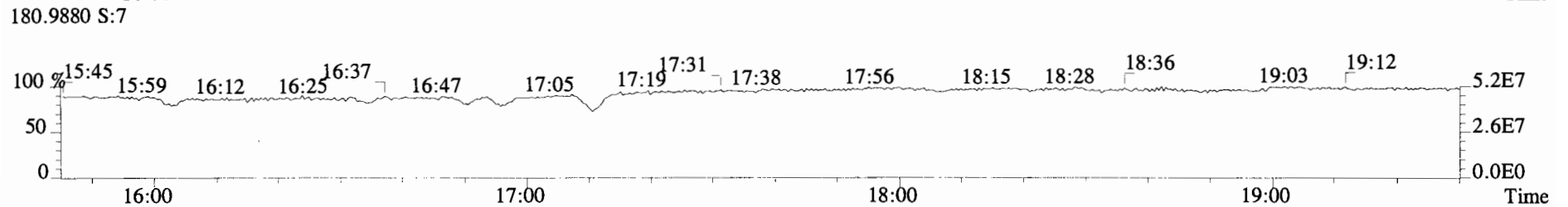
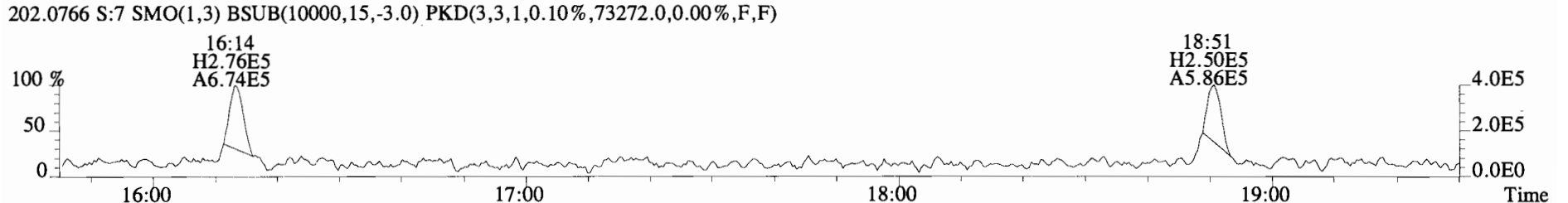
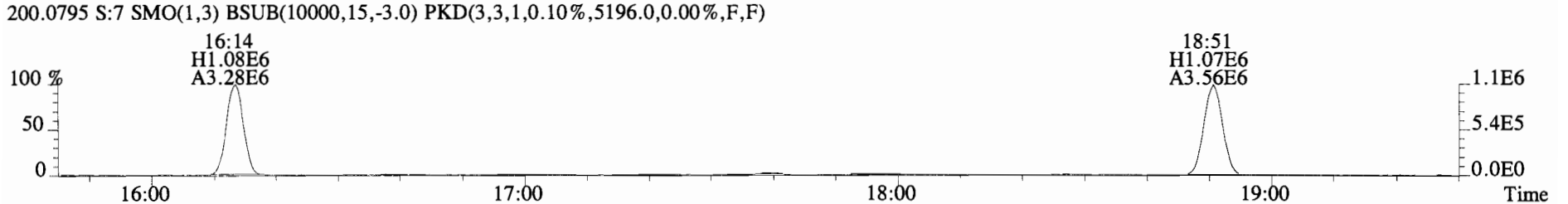
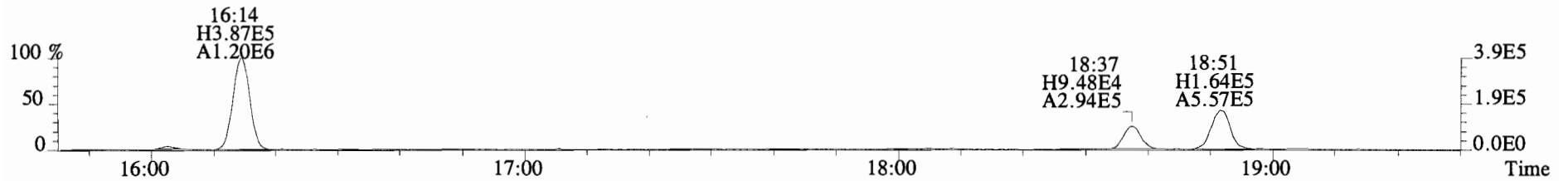
| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec | CRS vs. RS | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec |
|-------------|----------|------|-----|------|-------|-------|-------------|------|------|------------|-------------|----------|------|-----|------|-------|-------|-------------|------|------|
| 13C-PCB-1 | 2.79e+06 | 4.87 | n | 0.87 | 16:13 | 0.623 | 0.629-0.635 | 695 | 70.3 | | | | | | | | | | | |
| 13C-PCB-3 | 2.42e+06 | 6.07 | n | 0.91 | 18:51 | 0.723 | 0.725-0.733 | 578 | 58.5 | * | 13C-PCB-79 | 2.87e+06 | 0.73 | y | 1.02 | 37:57 | 1.028 | 1.023-1.034 | 942 | 95.3 |
| 13C-PCB-4 | 2.36e+06 | 1.62 | y | 0.59 | 20:11 | 0.774 | 0.775-0.783 | 877 | 88.7 | | 13C-PCB-178 | 9.15e+05 | 0.43 | y | 0.61 | 45:48 | 0.985 | 0.979-0.990 | 897 | 90.7 |
| 13C-PCB-9 | 3.75e+06 | 1.67 | y | 0.90 | 21:58 | 0.843 | 0.842-0.850 | 910 | 92.0 | | | | | | | | | | | |
| 13C-PCB-11 | 3.89e+06 | 1.63 | y | 0.94 | 25:21 | 0.973 | 0.968-0.978 | 902 | 91.3 | PS vs. IS | | | | | | | | | | |
| 13C-PCB-19 | 2.22e+06 | 0.97 | y | 0.53 | 24:20 | 0.934 | 0.930-0.940 | 908 | 91.8 | | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec |
| 13C-PCB-28 | 2.79e+06 | 0.97 | y | 0.93 | 29:12 | 1.003 | 0.999-1.009 | 868 | 87.8 | | 13C-PCB-79 | 2.87e+06 | 0.73 | y | 1.10 | 37:57 | 0.969 | 0.964-0.974 | 1080 | 109 |
| 13C-PCB-32 | 3.35e+06 | 1.07 | y | 0.80 | 27:16 | 1.046 | 1.040-1.050 | 915 | 92.6 | | 13C-PCB-178 | 9.15e+05 | 0.43 | y | 0.90 | 45:48 | 0.925 | 0.920-0.930 | 1020 | 103 |
| 13C-PCB-37 | 2.81e+06 | 1.10 | y | 0.84 | 33:05 | 1.137 | 1.131-1.143 | 970 | 98.1 | | | | | | | | | | | |
| 13C-PCB-47 | 2.12e+06 | 0.81 | y | 0.81 | 32:07 | 0.870 | 0.866-0.874 | 870 | 88.0 | * | | | | | | | | | | |
| 13C-PCB-52 | 2.09e+06 | 0.71 | y | 0.77 | 31:38 | 0.857 | 0.853-0.861 | 906 | 91.7 | | | | | | | | | | | |
| 13C-PCB-54 | 2.54e+06 | 0.80 | y | 0.97 | 28:05 | 0.761 | 0.758-0.766 | 875 | 88.5 | | | | | | | | | | | |
| 13C-PCB-70 | 2.69e+06 | 0.87 | y | 1.00 | 35:39 | 0.966 | 0.961-0.971 | 899 | 90.9 | | | | | | | | | | | |
| 13C-PCB-77 | 2.36e+06 | 0.73 | y | 0.94 | 39:46 | 1.078 | 1.073-1.083 | 835 | 84.4 | | | | | | | | | | | |
| 13C-PCB-80 | 2.78e+06 | 0.72 | y | 1.03 | 36:04 | 0.977 | 0.972-0.982 | 901 | 91.1 | | | | | | | | | | | |
| 13C-PCB-81 | 2.38e+06 | 0.74 | y | 0.92 | 39:11 | 1.062 | 1.057-1.067 | 862 | 87.2 | | | | | | | | | | | |
| 13C-PCB-95 | 1.38e+06 | 1.65 | y | 0.74 | 35:57 | 0.913 | 0.908-0.918 | 869 | 87.9 | | RS | | | | | | | | | |
| 13C-PCB-97 | 1.32e+06 | 1.43 | y | 0.70 | 38:56 | 0.989 | 0.984-0.994 | 876 | 88.6 | | Name | Resp | RA | RRF | RT | Conc | | | | |
| 13C-PCB-101 | 1.48e+06 | 1.75 | y | 0.78 | 37:38 | 0.956 | 0.951-0.961 | 885 | 89.5 | | 13C-PCB-15 | 4.54e+06 | 1.52 | y | 1.00 | 26:04 | 989 | | | |
| 13C-PCB-104 | 2.03e+06 | 1.63 | y | 1.00 | 32:47 | 0.833 | 0.828-0.836 | 949 | 96.0 | | 13C-PCB-31 | 3.41e+06 | 1.08 | y | 1.00 | 29:06 | 989 | | | |
| 13C-PCB-105 | 1.61e+06 | 1.69 | y | 1.37 | 43:13 | 0.929 | 0.924-0.934 | 708 | 71.6 | * | 13C-PCB-60 | 2.96e+06 | 0.82 | y | 1.00 | 36:54 | 989 | | | |
| 13C-PCB-114 | 1.69e+06 | 1.73 | y | 1.36 | 42:21 | 0.910 | 0.905-0.915 | 744 | 75.2 | | 13C-PCB-111 | 2.11e+06 | 1.59 | y | 1.00 | 39:23 | 989 | | | |
| 13C-PCB-118 | 1.62e+06 | 1.54 | y | 0.96 | 41:42 | 1.059 | 1.054-1.064 | 791 | 80.0 | * | 13C-PCB-128 | 1.64e+06 | 1.22 | y | 1.00 | 46:31 | 989 | | | |
| 13C-PCB-123 | 1.71e+06 | 1.48 | y | 0.89 | 41:31 | 1.054 | 1.050-1.060 | 895 | 90.5 | | 13C-PCB-205 | 9.76e+05 | 0.90 | y | 1.00 | 54:19 | 989 | | | |
| 13C-PCB-126 | 1.43e+06 | 1.47 | y | 1.31 | 45:28 | 0.978 | 0.972-0.982 | 659 | 66.6 | | | | | | | | | | | |
| 13C-PCB-127 | 1.73e+06 | 1.56 | y | 1.47 | 43:34 | 0.937 | 0.931-0.941 | 707 | 71.5 | | | | | | | | | | | |
| 13C-PCB-138 | 1.54e+06 | 1.32 | y | 1.10 | 44:57 | 0.966 | 0.961-0.971 | 842 | 85.2 | | | | | | | | | | | |
| 13C-PCB-141 | 1.52e+06 | 1.19 | y | 1.07 | 44:06 | 0.948 | 0.943-0.953 | 850 | 86.0 | | | | | | | | | | | |
| 13C-PCB-153 | 1.67e+06 | 1.33 | y | 1.15 | 43:22 | 0.932 | 0.927-0.937 | 876 | 88.6 | | | | | | | | | | | |
| 13C-PCB-155 | 1.64e+06 | 1.18 | y | 0.84 | 37:11 | 0.944 | 0.939-0.949 | 915 | 92.5 | | | | | | | | | | | |
| 13C-PCB-156 | 1.79e+06 | 1.18 | y | 1.30 | 48:14 | 1.037 | 1.032-1.042 | 828 | 83.7 | | | | | | | | | | | |
| 13C-PCB-157 | 1.84e+06 | 1.38 | y | 1.36 | 48:30 | 1.043 | 1.038-1.048 | 816 | 82.6 | | | | | | | | | | | |
| 13C-PCB-159 | 1.71e+06 | 1.21 | y | 1.25 | 46:15 | 0.994 | 0.989-0.999 | 827 | 83.6 | | | | | | | | | | | |
| 13C-PCB-167 | 1.85e+06 | 1.42 | y | 1.35 | 46:56 | 1.009 | 1.004-1.014 | 823 | 83.3 | * | | | | | | | | | | |
| 13C-PCB-169 | 1.58e+06 | 1.40 | y | 1.29 | 50:38 | 1.088 | 1.083-1.093 | 738 | 74.7 | | | | | | | | | | | |
| 13C-PCB-170 | 7.26e+05 | 0.47 | y | 0.54 | 51:00 | 1.096 | 1.089-1.101 | 805 | 81.5 | | | | | | | | | | | |
| 13C-PCB-180 | 9.89e+05 | 0.49 | y | 0.68 | 49:31 | 1.064 | 1.060-1.070 | 869 | 87.9 | | | | | | | | | | | |
| 13C-PCB-188 | 1.27e+06 | 0.54 | n | 0.92 | 42:59 | 0.924 | 0.919-0.929 | 834 | 84.4 | | | | | | | | | | | |
| 13C-PCB-189 | 7.71e+05 | 0.51 | y | 0.72 | 52:29 | 1.128 | 1.120-1.132 | 648 | 65.5 | * | | | | | | | | | | |
| 13C-PCB-194 | 6.66e+05 | 1.03 | n | 0.80 | 54:02 | 0.995 | 0.990-1.000 | 845 | 85.5 | | | | | | | | | | | |
| 13C-PCB-202 | 1.31e+06 | 0.77 | y | 0.84 | 48:27 | 1.041 | 1.036-1.046 | 940 | 95.1 | | | | | | | | | | | |
| 13C-PCB-206 | 7.53e+05 | 0.76 | y | 0.65 | 55:45 | 1.026 | 1.021-1.031 | 1170 | 119 | | | | | | | | | | | |
| 13C-PCB-208 | 1.14e+06 | 0.79 | y | 1.08 | 53:16 | 0.981 | 0.976-0.986 | 1070 | 108 | | | | | | | | | | | |
| 13C-PCB-209 | 7.99e+05 | 1.11 | y | 0.61 | 57:08 | 1.052 | 1.045-1.055 | 1330 | 134 | | | | | | | | | | | |

Analyst: *Dms*

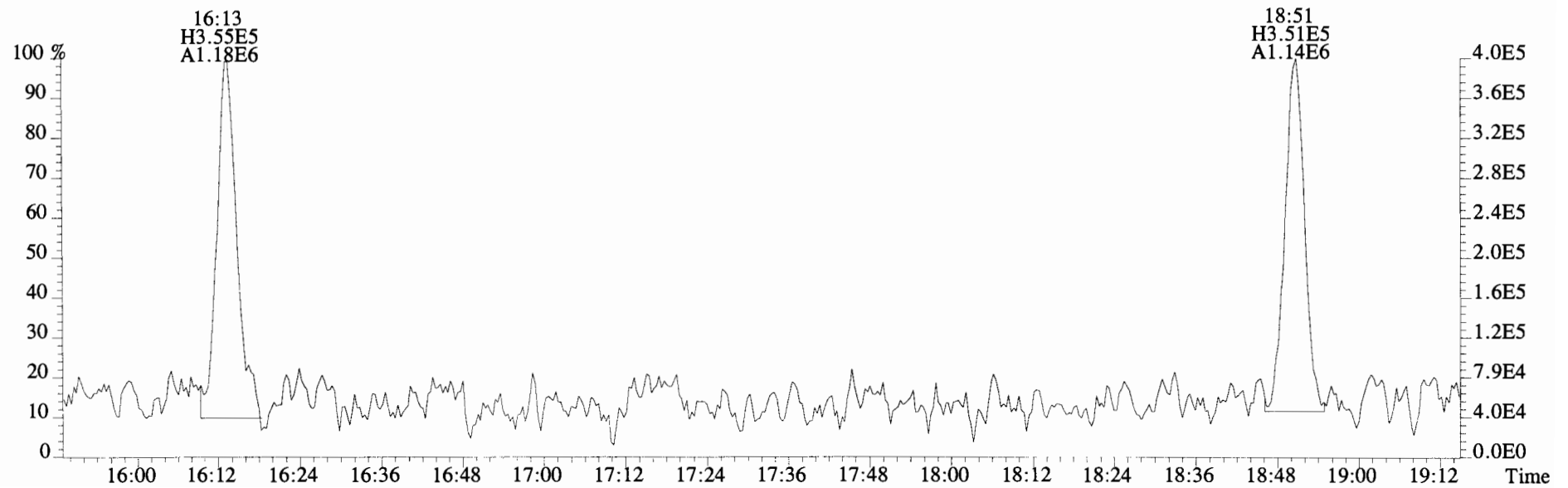
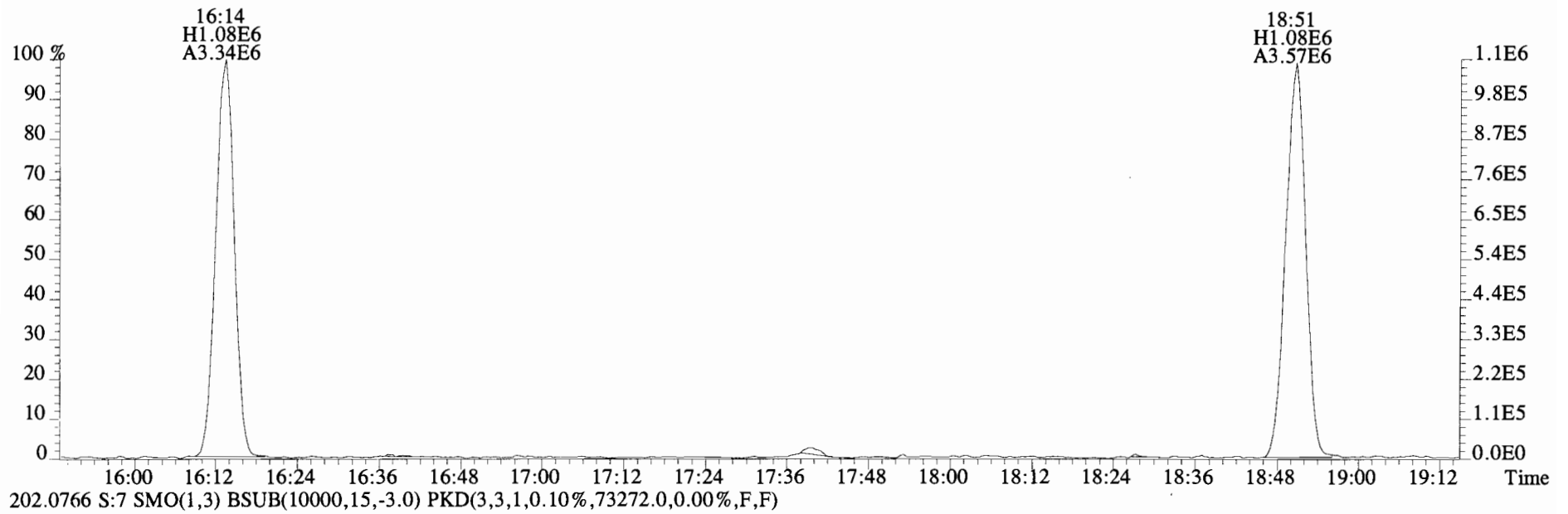
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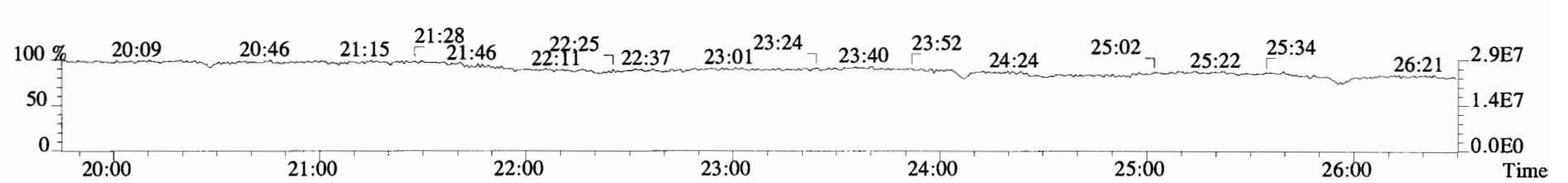
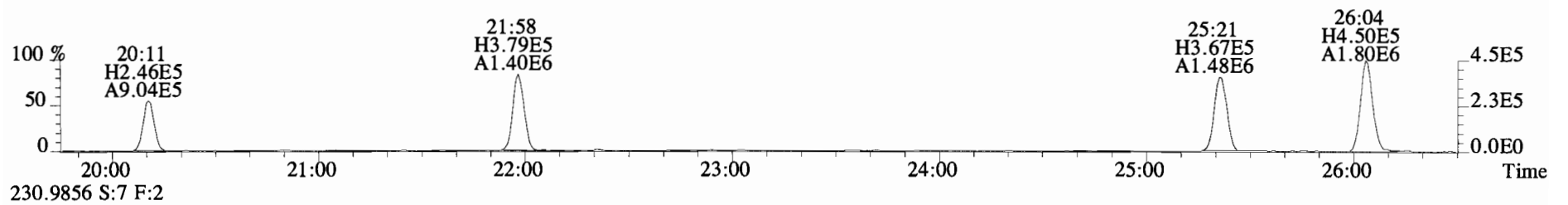
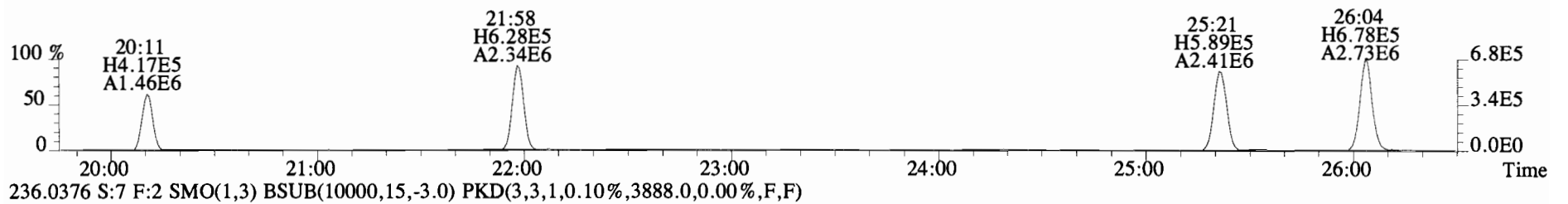
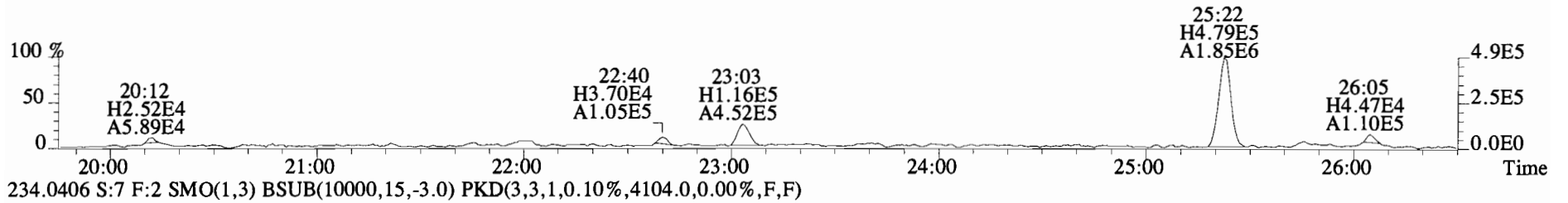
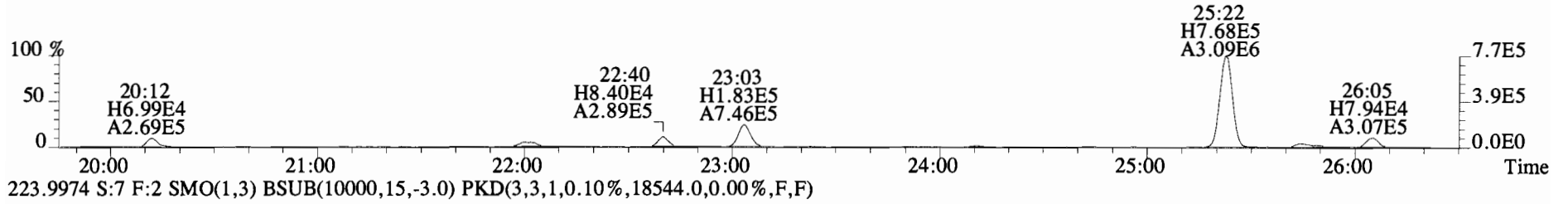
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
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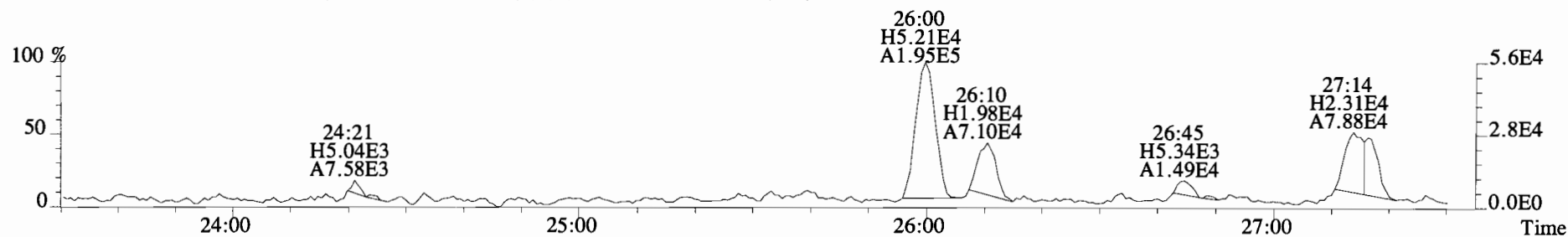
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
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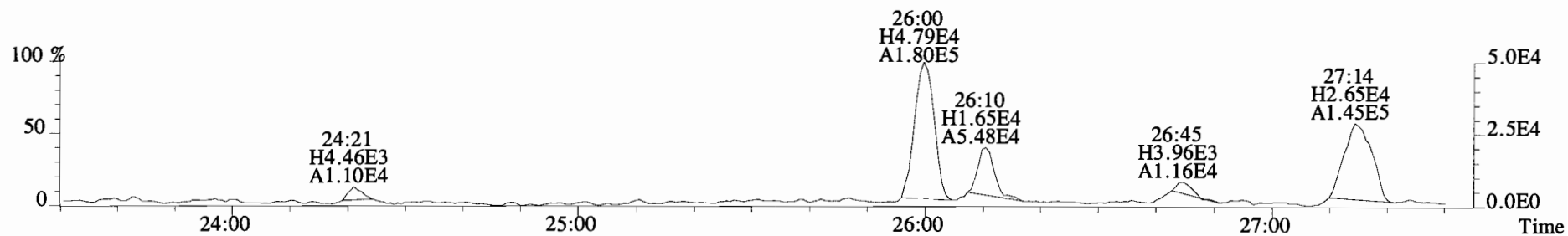
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 222.0003 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3460.0,0.00%,F,F)



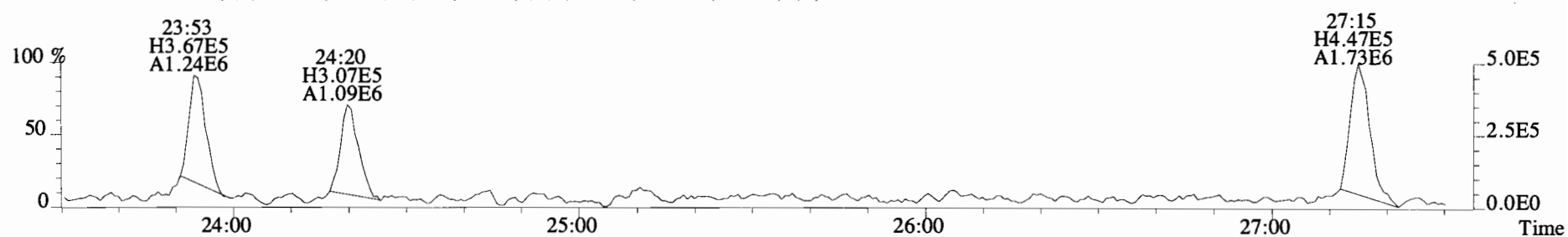
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
255.9613 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3952.0,0.00%,F,F)



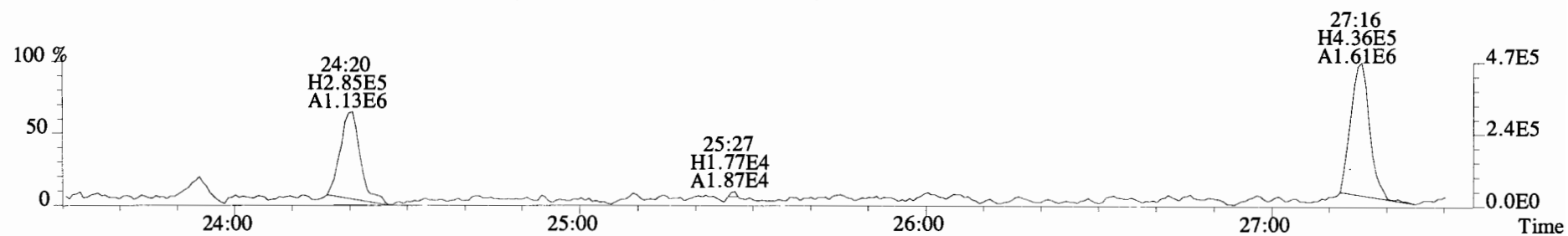
257.9584 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1948.0,0.00%,F,F)



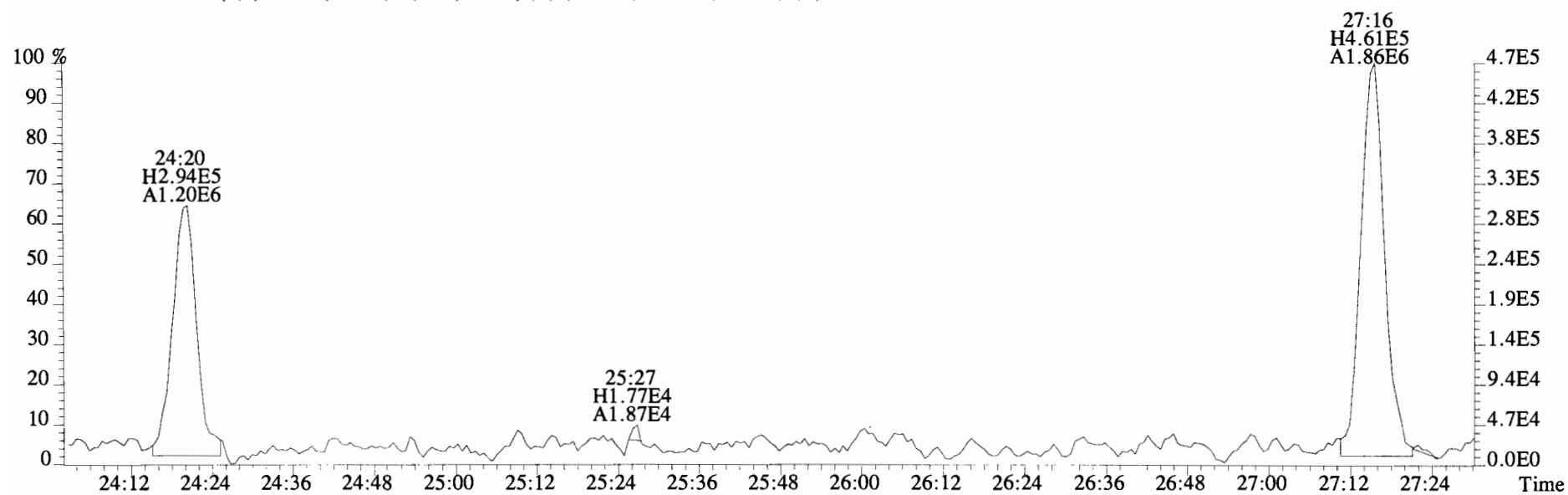
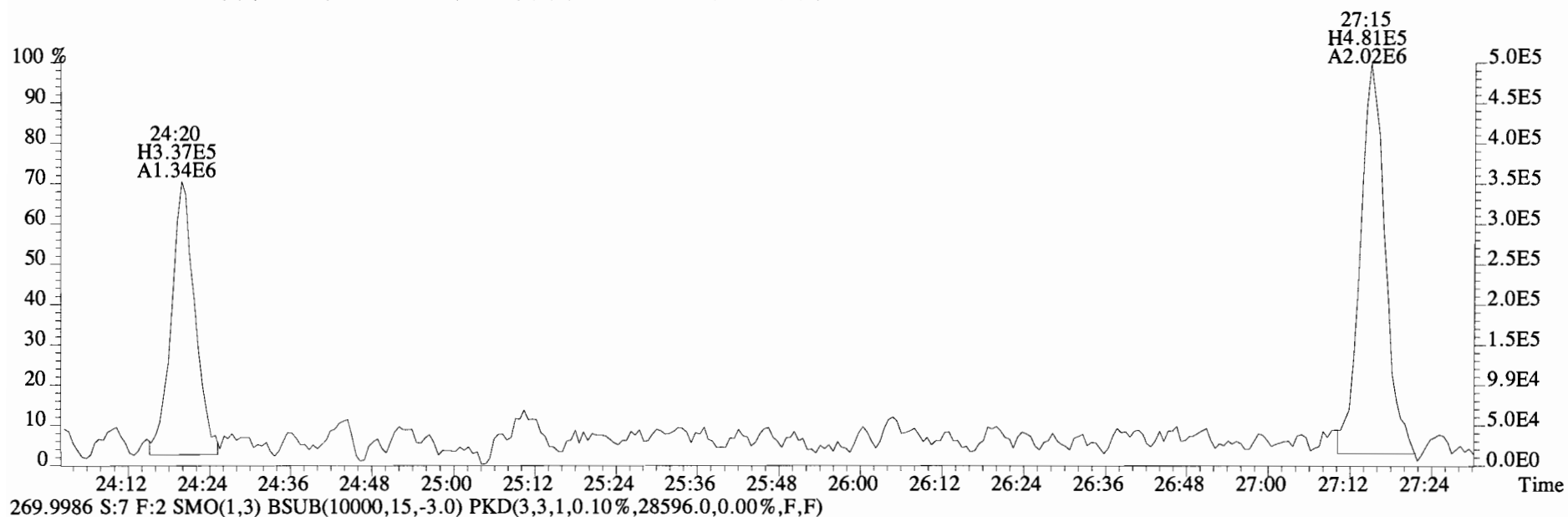
268.0016 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,42936.0,0.00%,F,F)



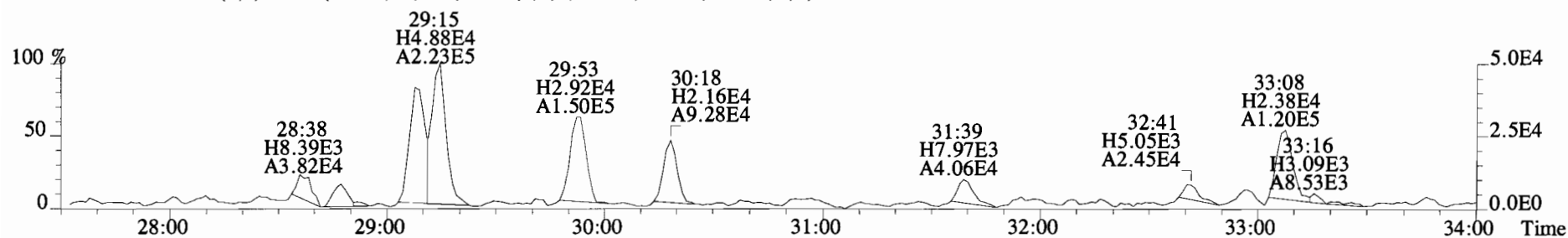
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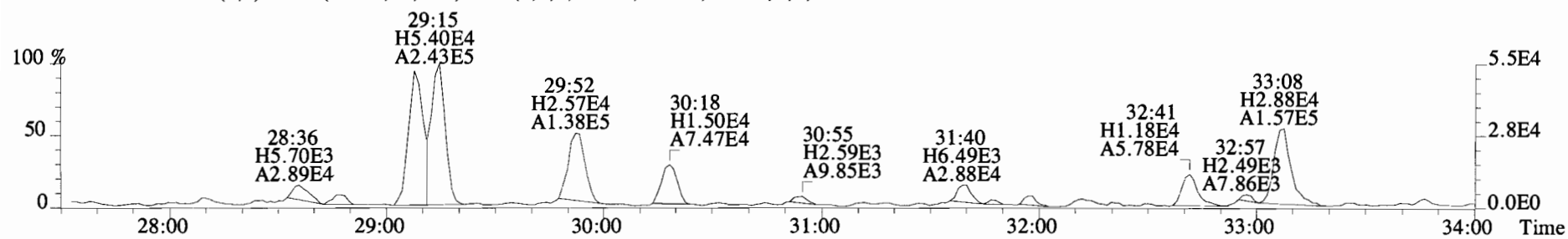
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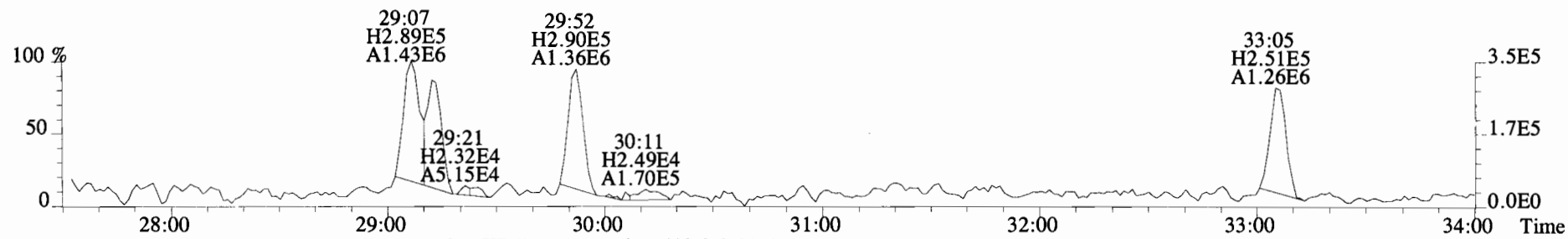
File:140924E1 #1-762 Acq:24-SEP-2014 17:35:34 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
 255.9613 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2536.0,0.00%,F,F)



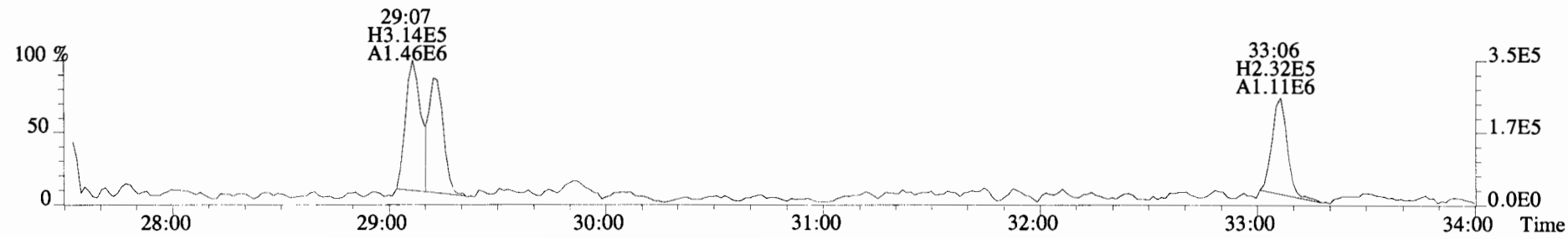
257.9584 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1840.0,0.00%,F,F)



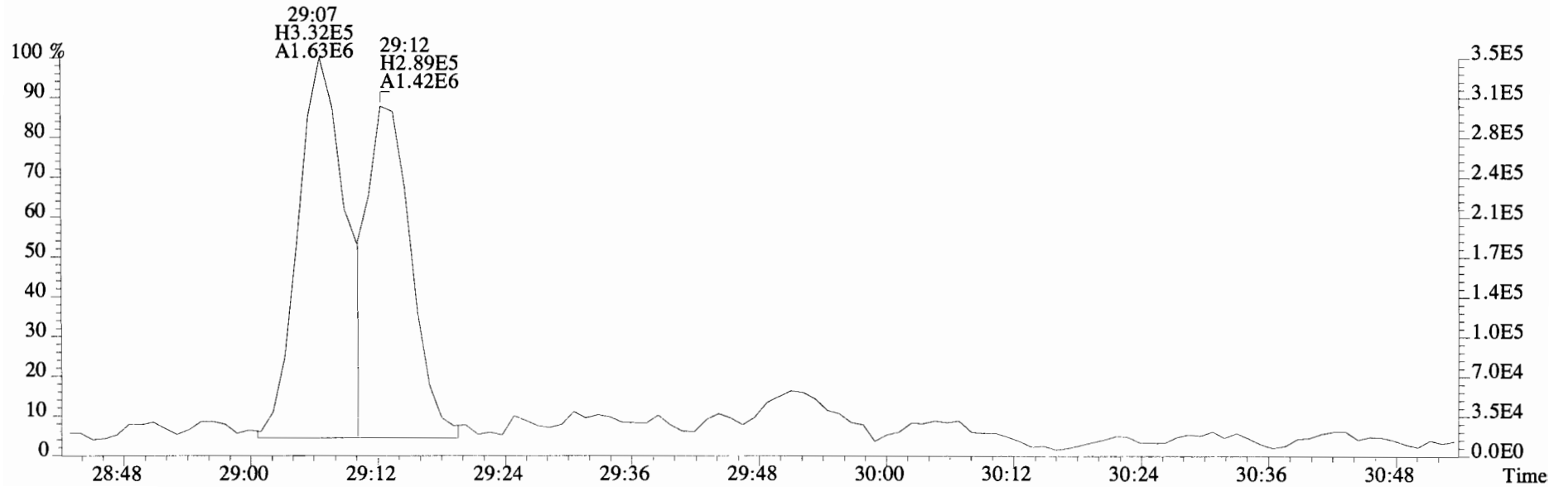
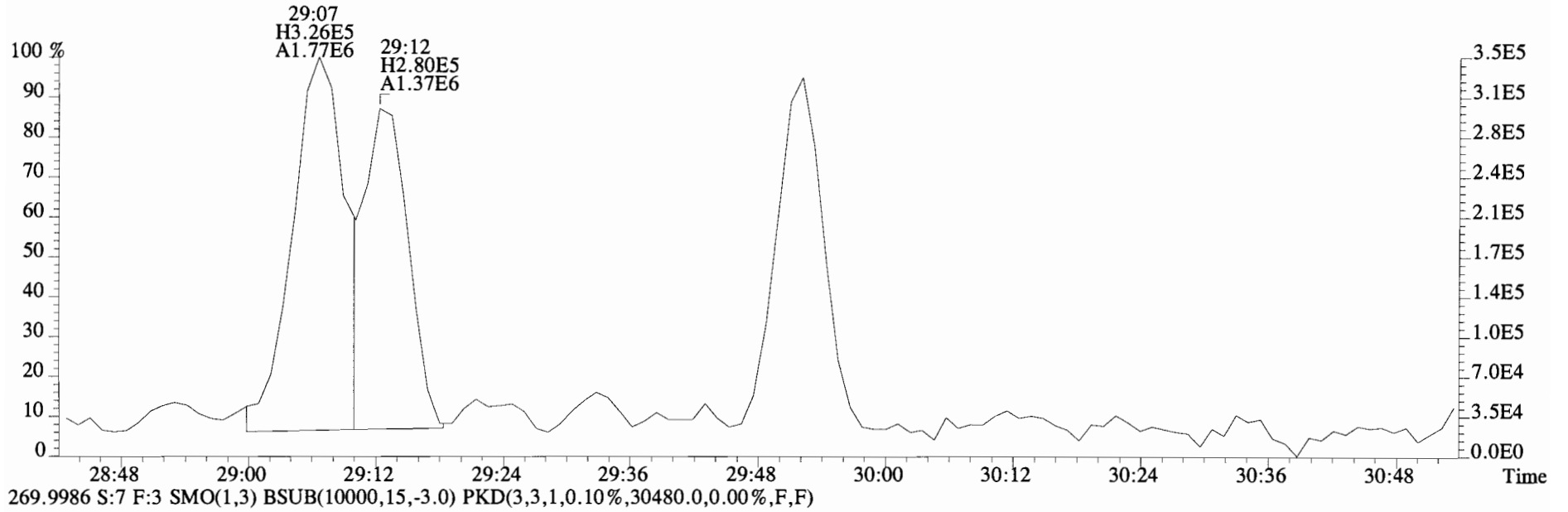
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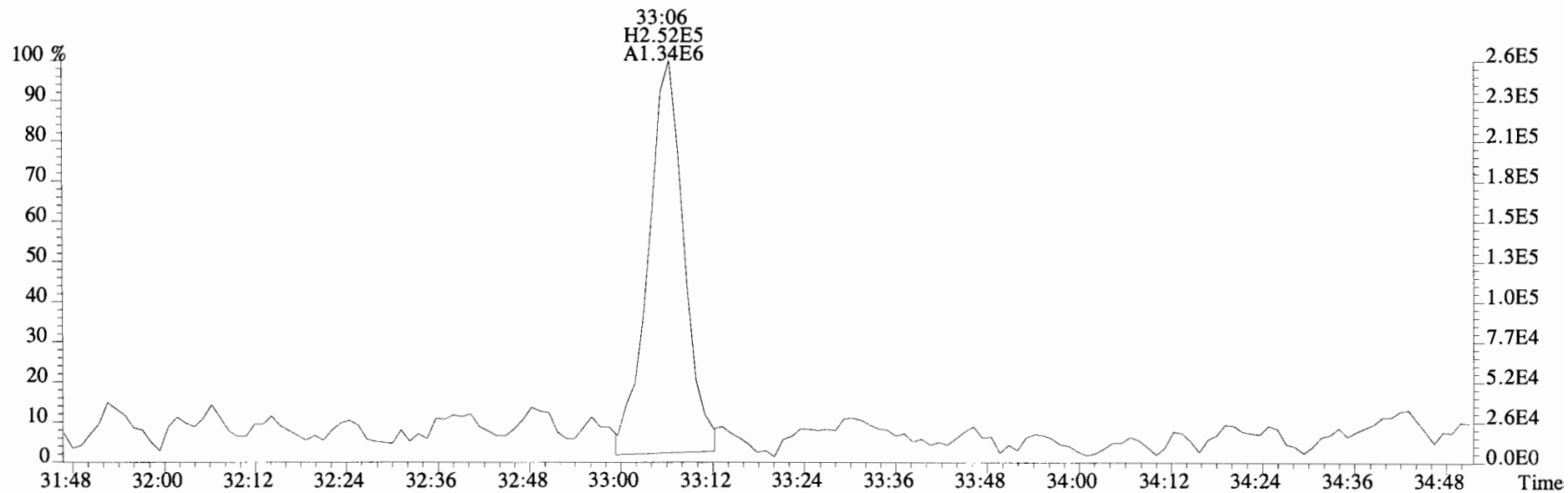
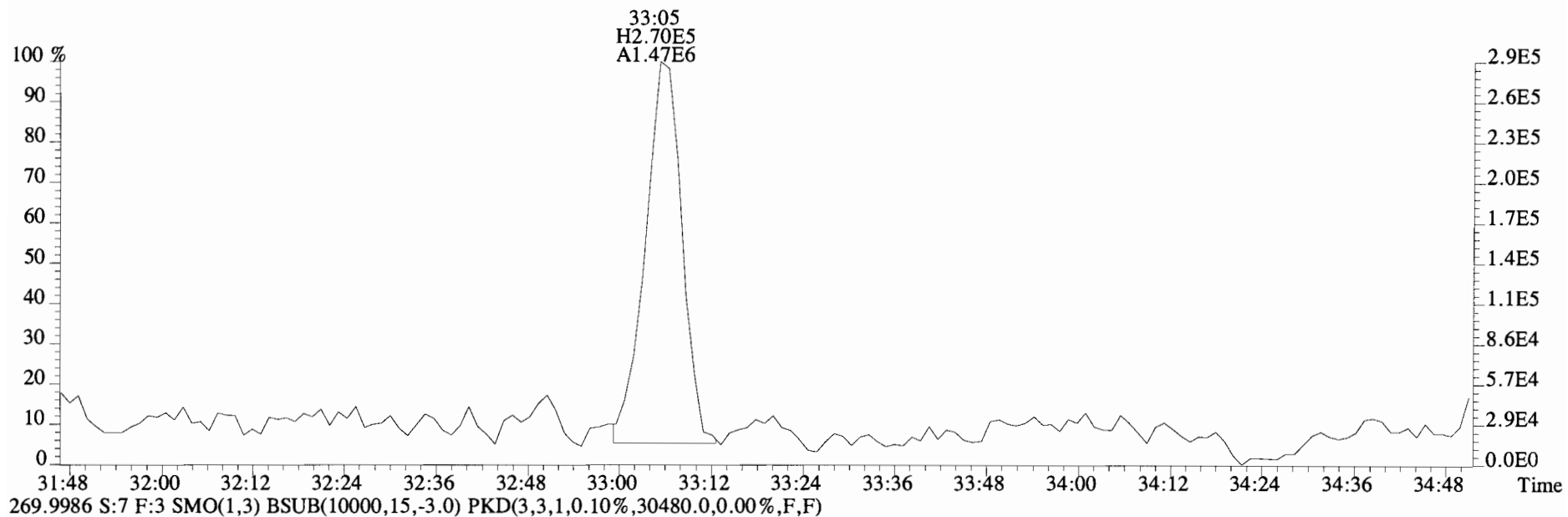
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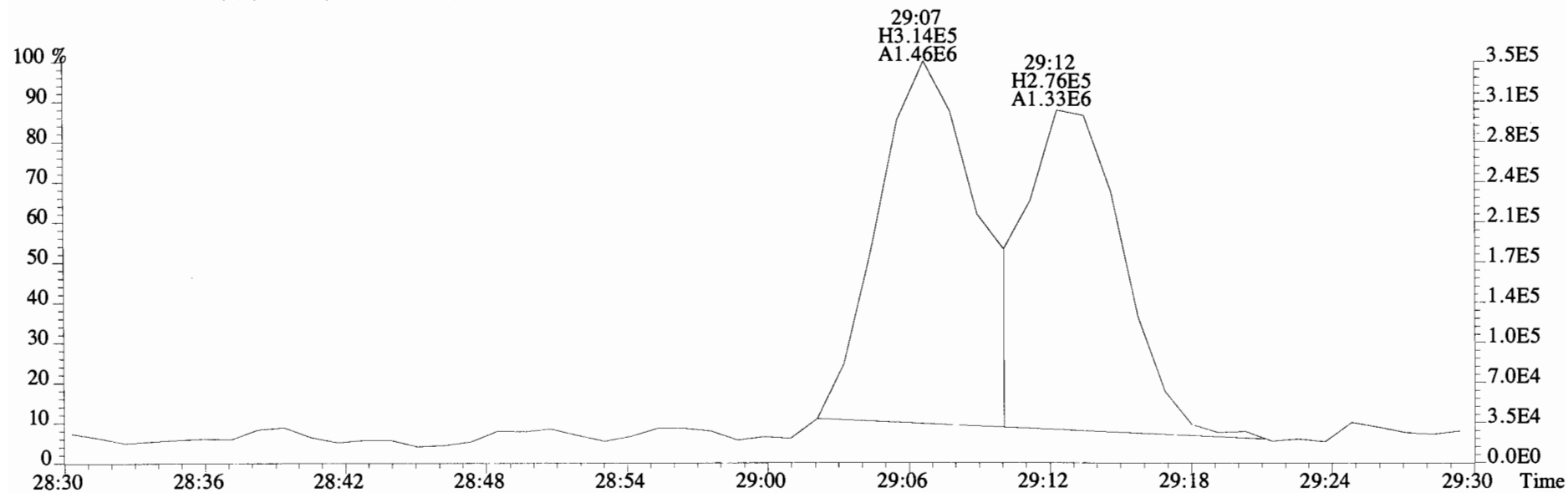
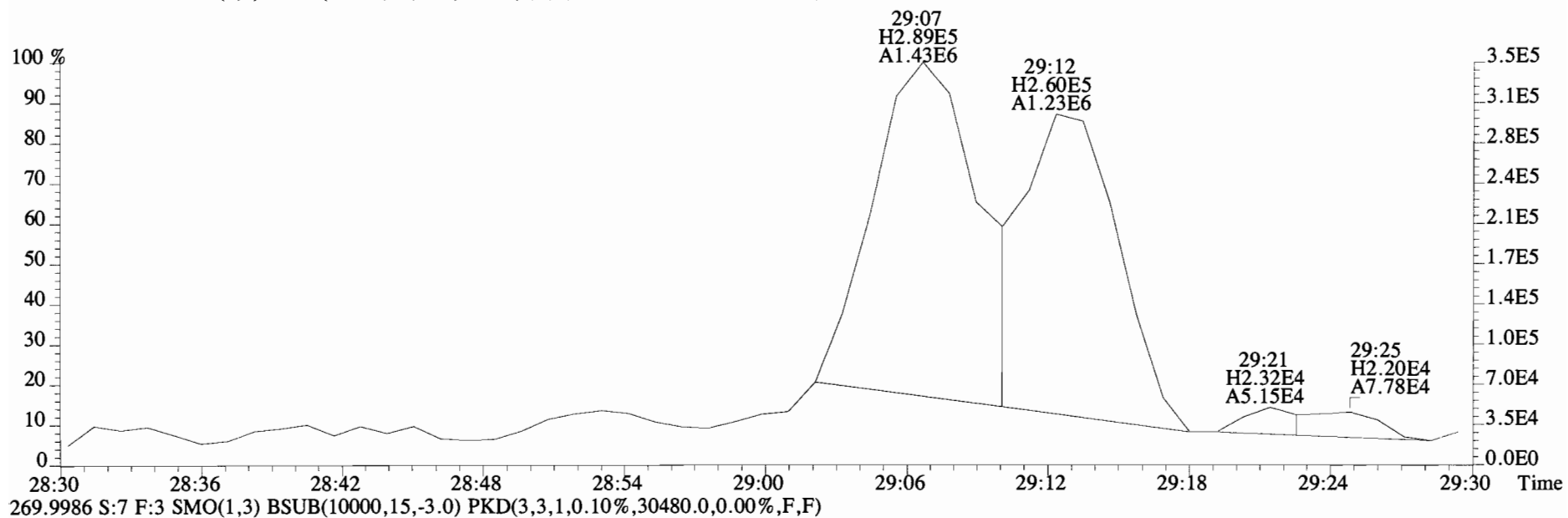
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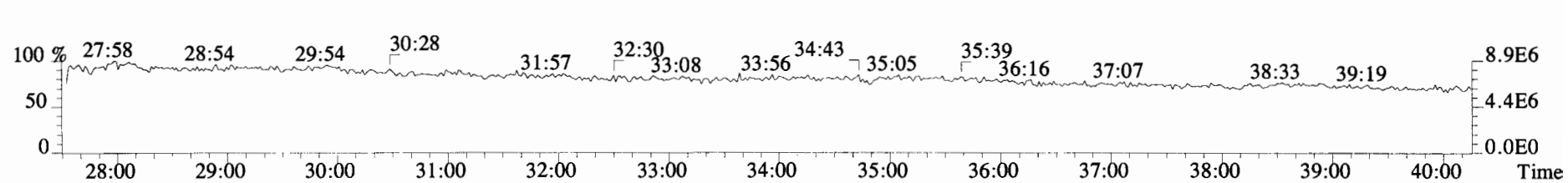
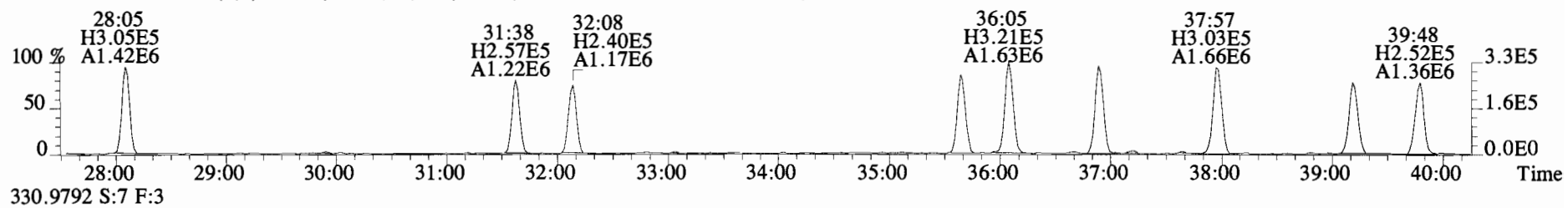
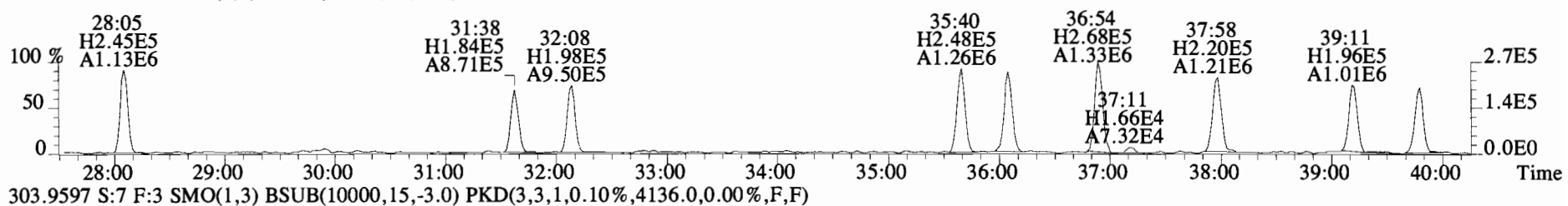
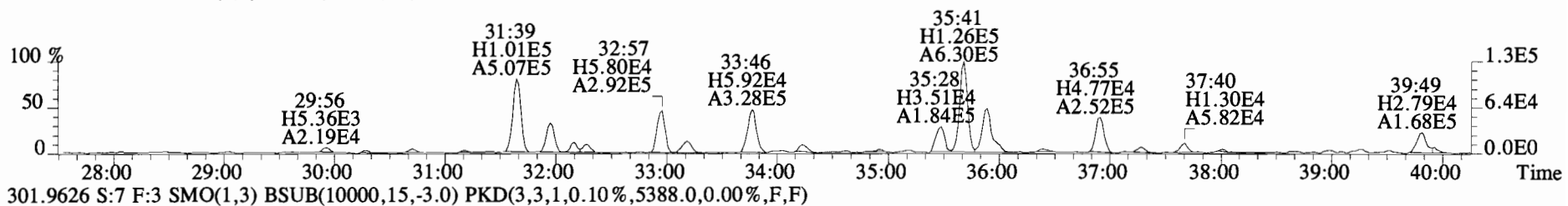
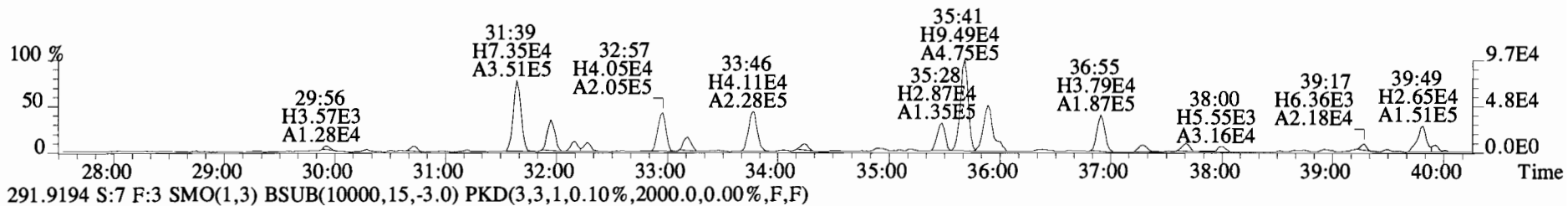
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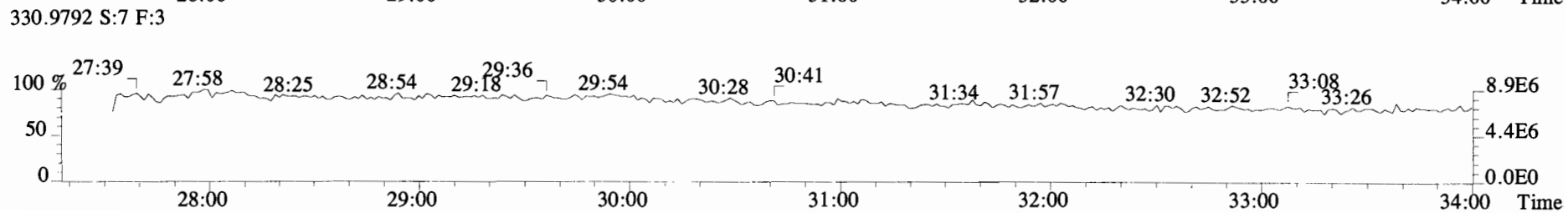
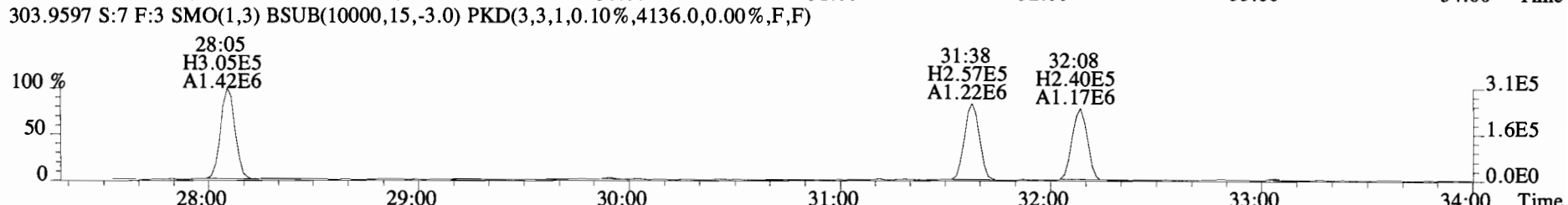
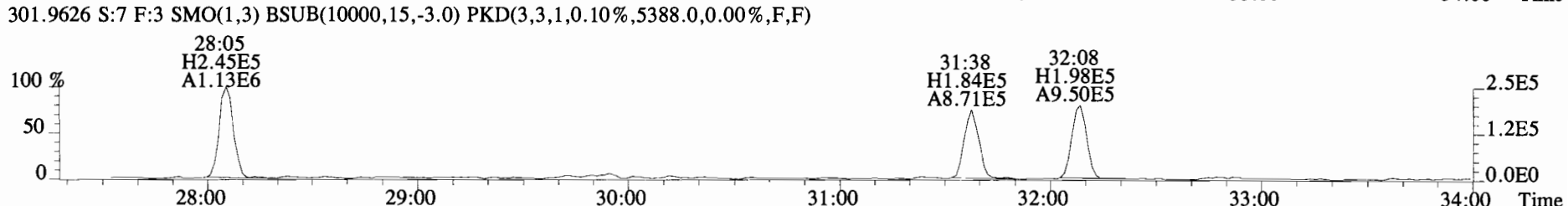
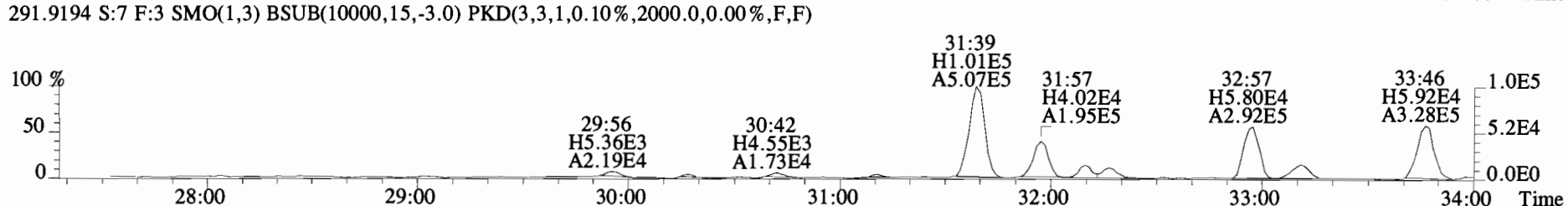
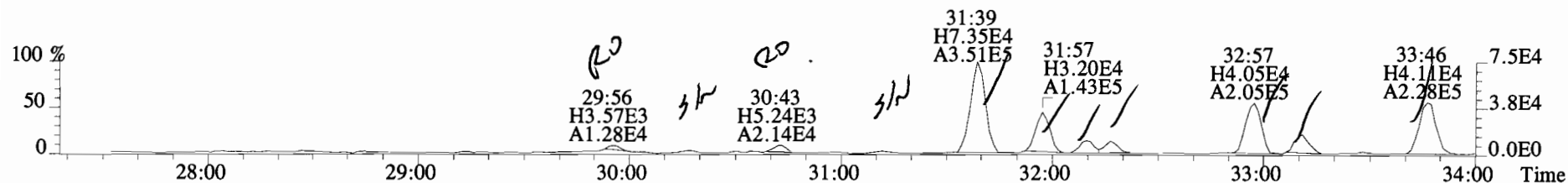
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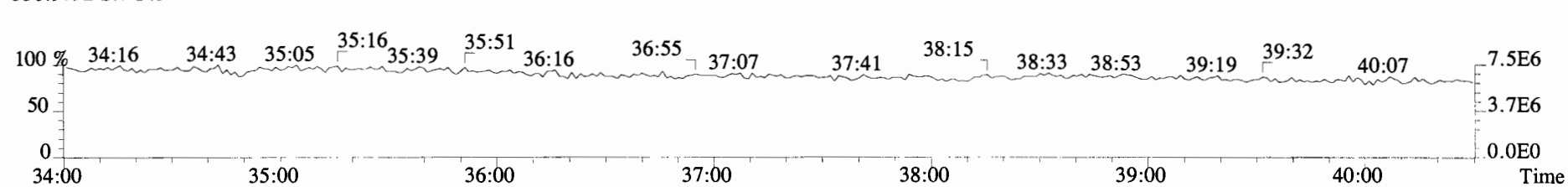
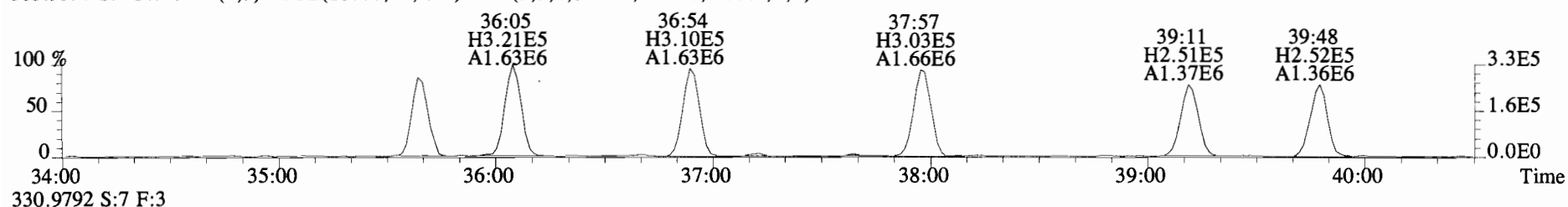
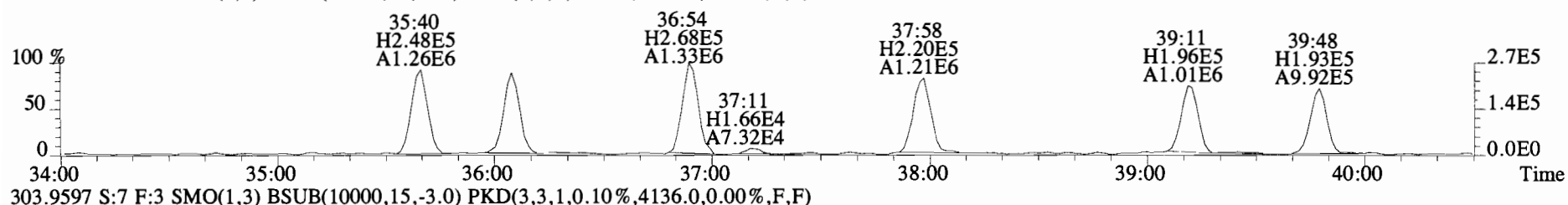
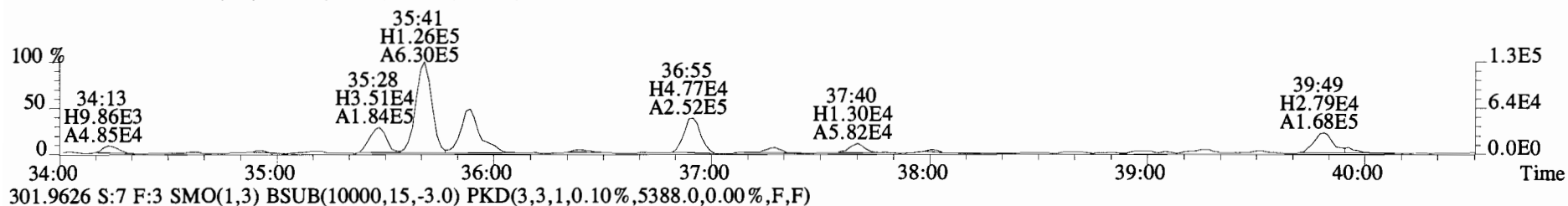
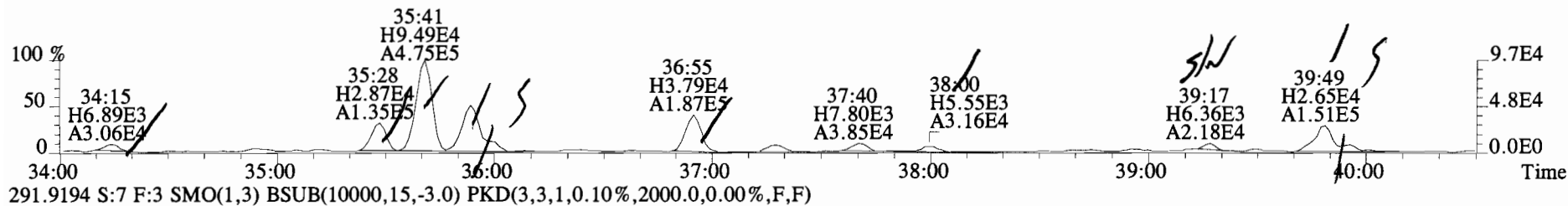
File:140924E1 #1-762 Acq:24-SEP-2014 17:35:34 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
 289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1920.0,0.00%,F,F)



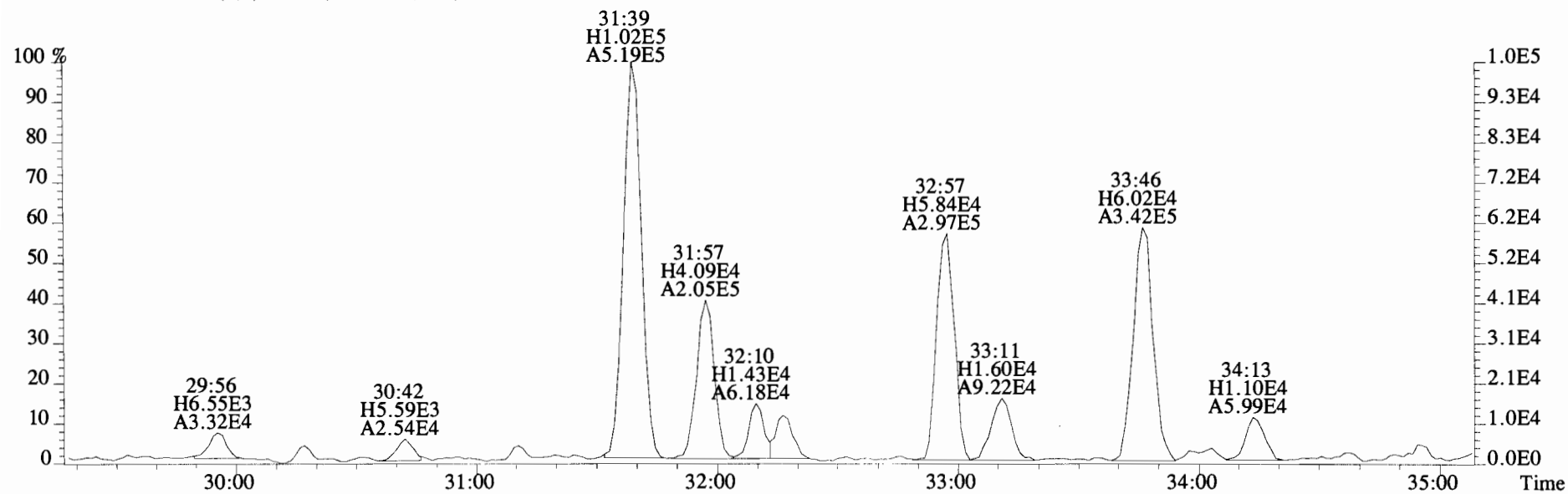
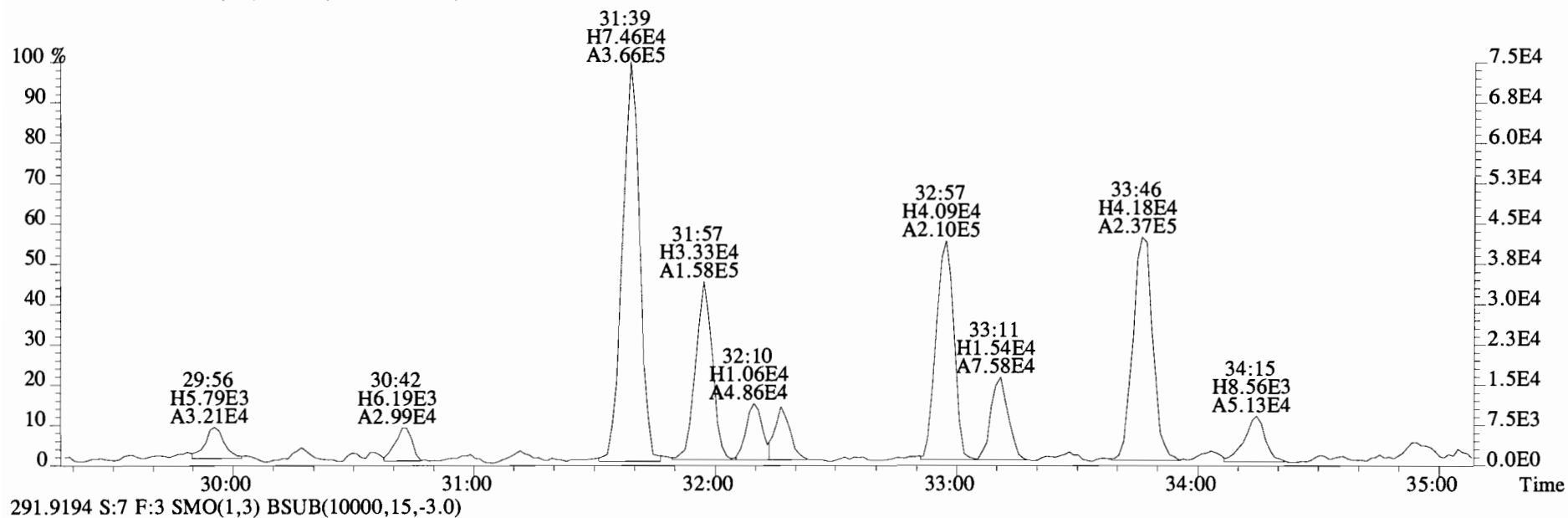
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Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1920.0,0.00%,F,F)



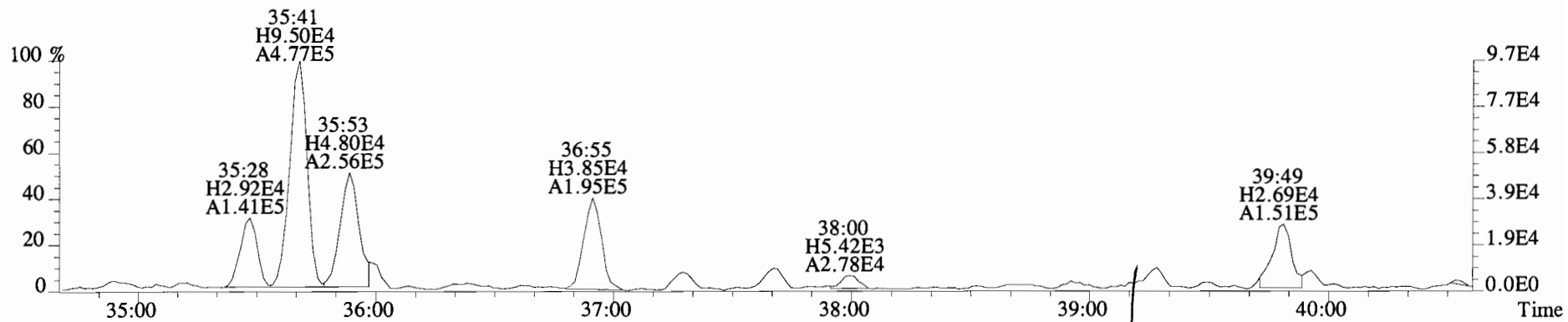
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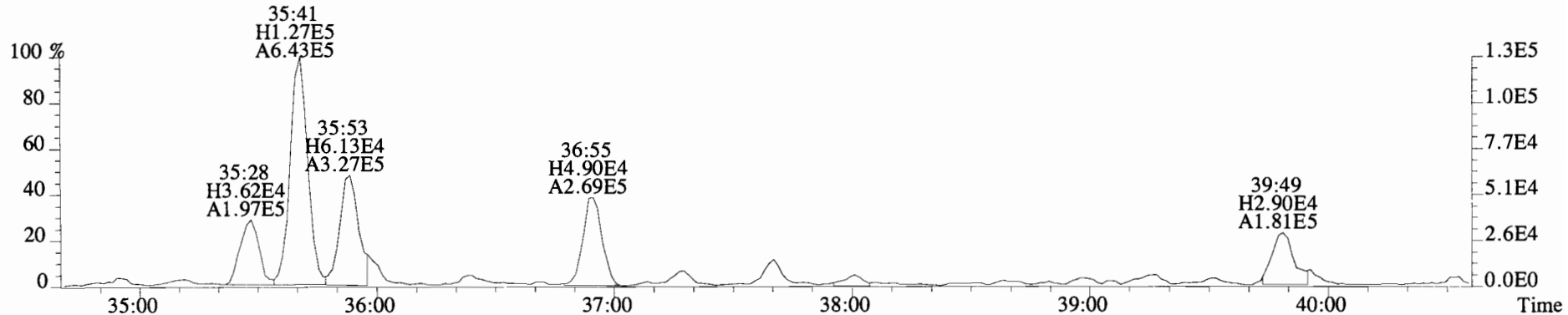
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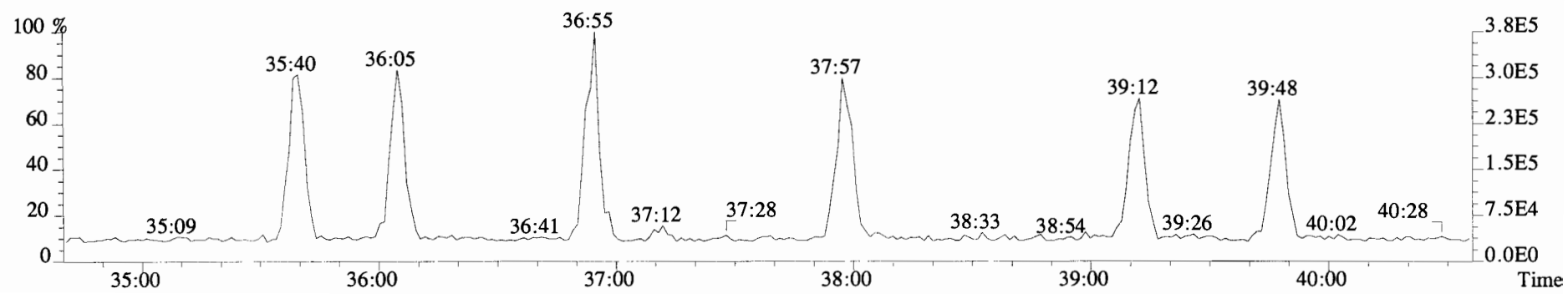
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 289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



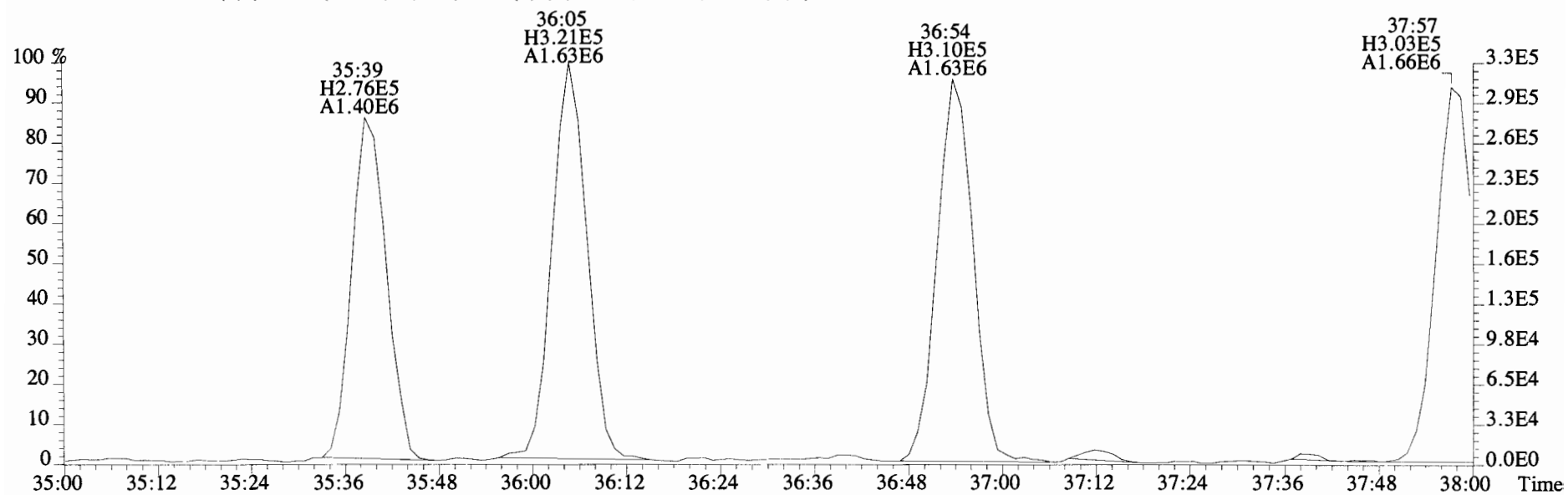
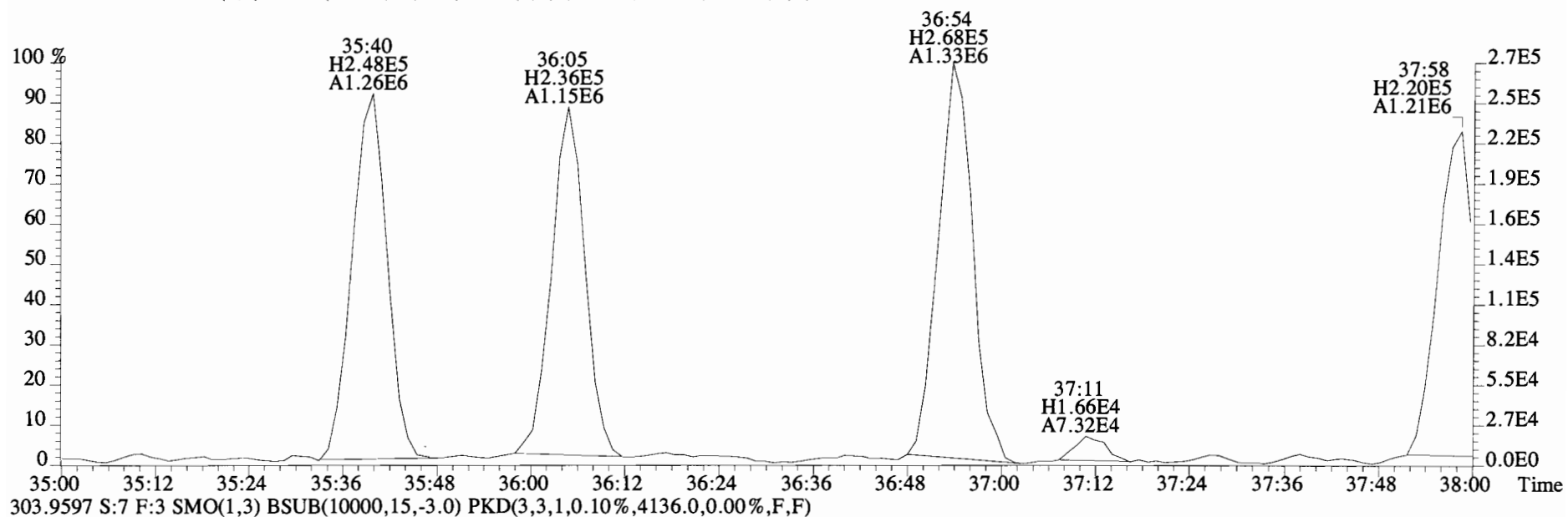
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



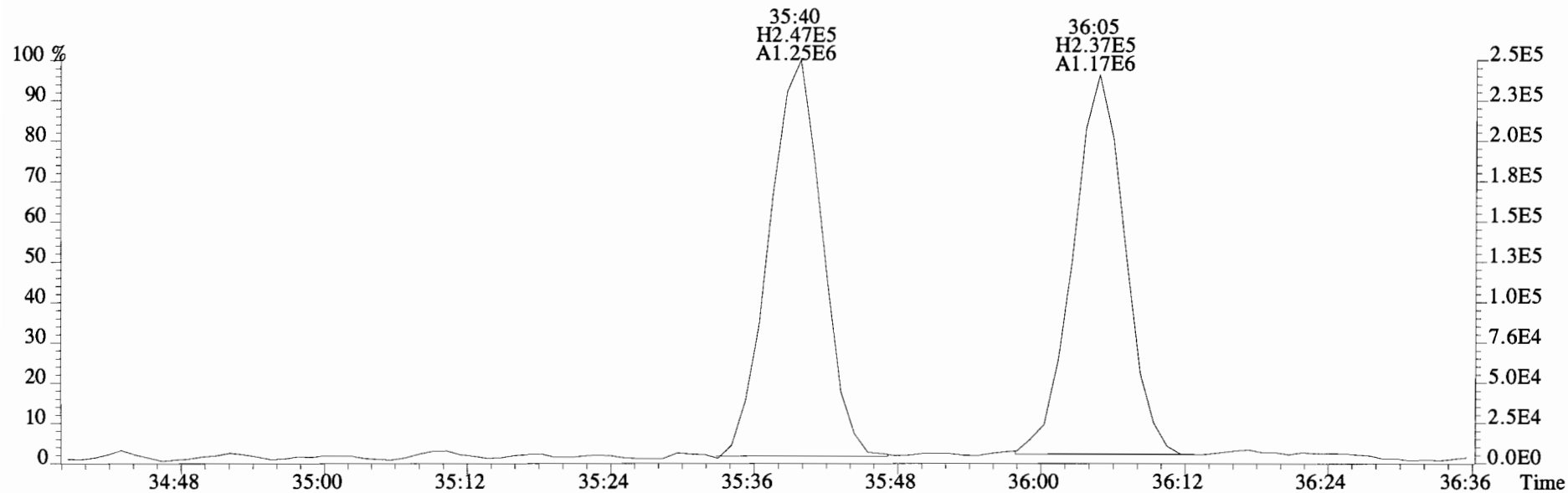
301.9626 S:7 F:3



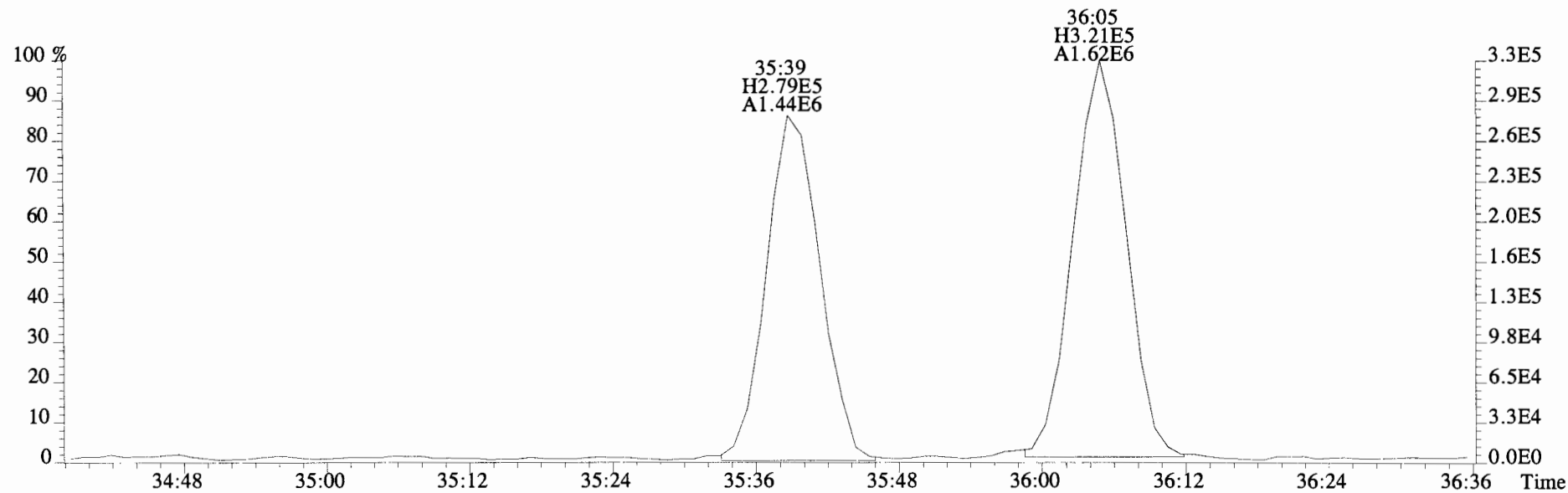
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301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5388.0,0.00%,F,F)



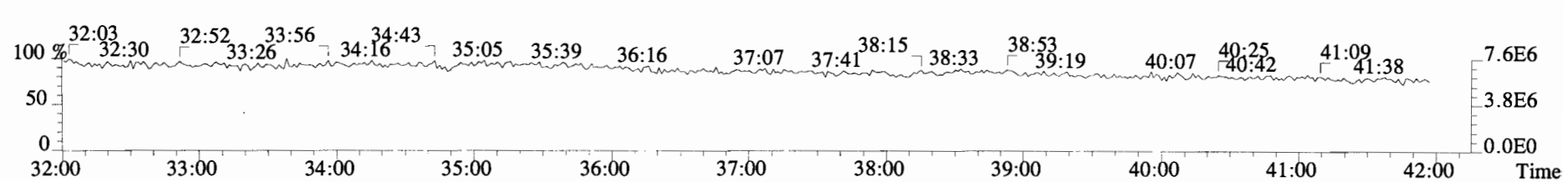
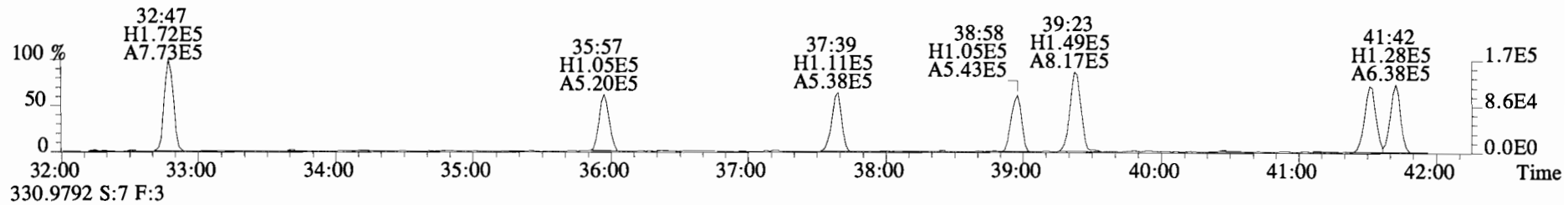
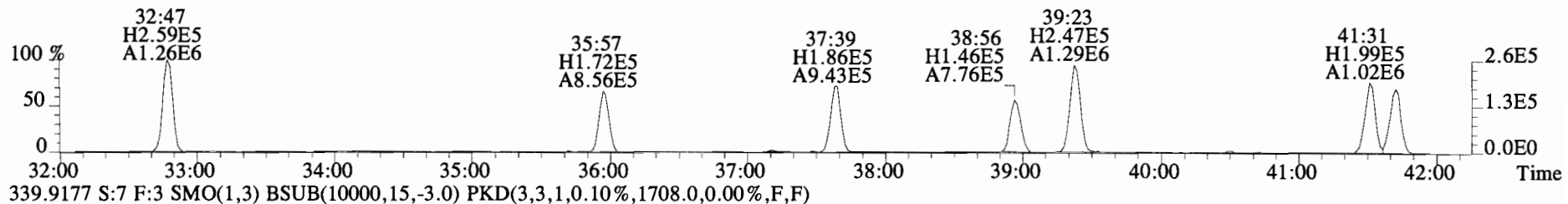
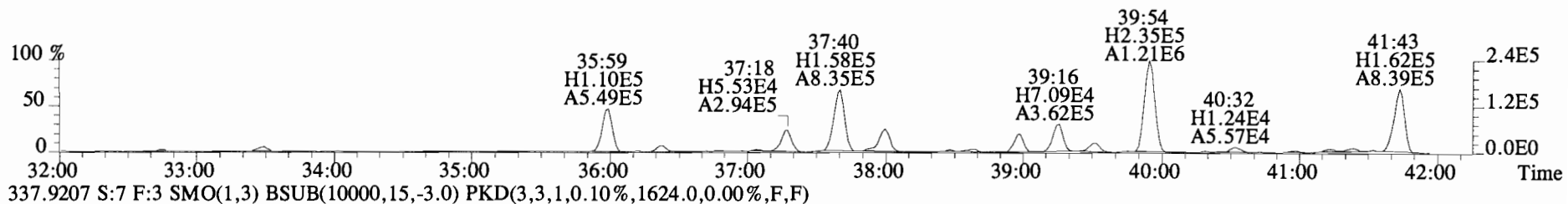
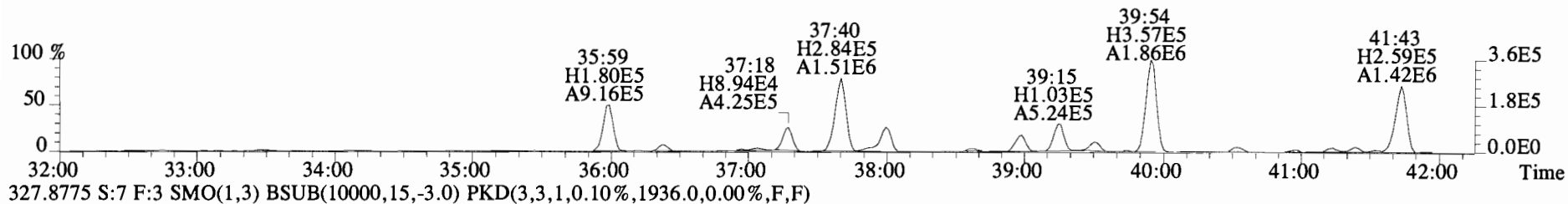
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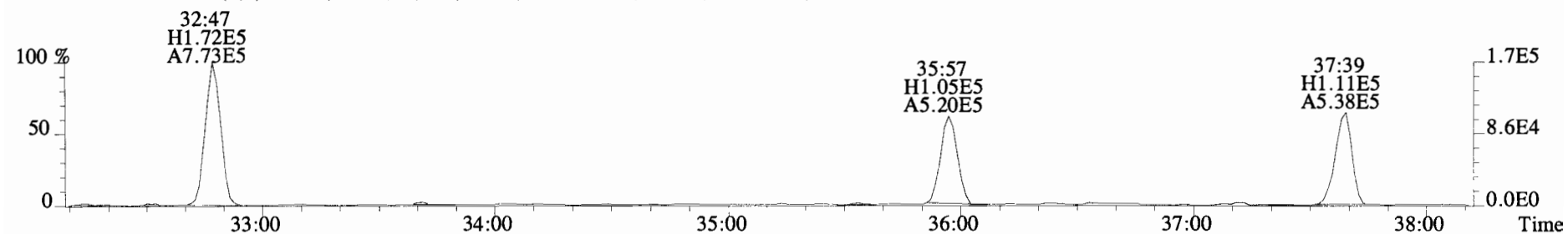
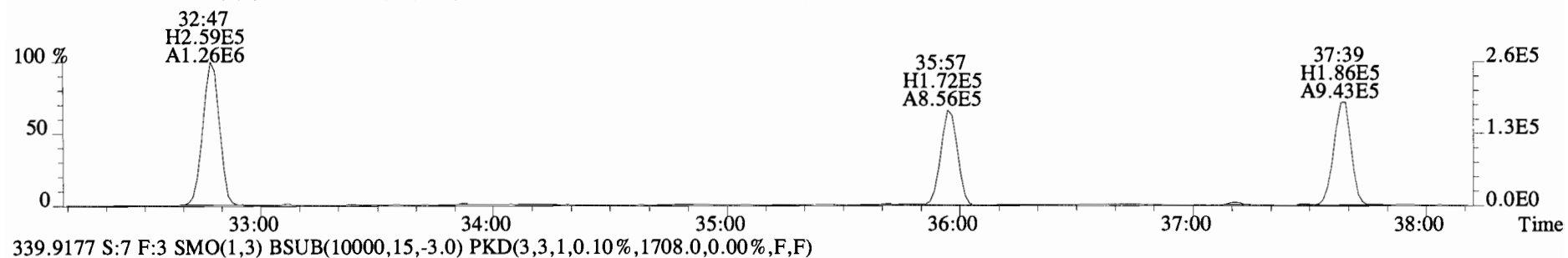
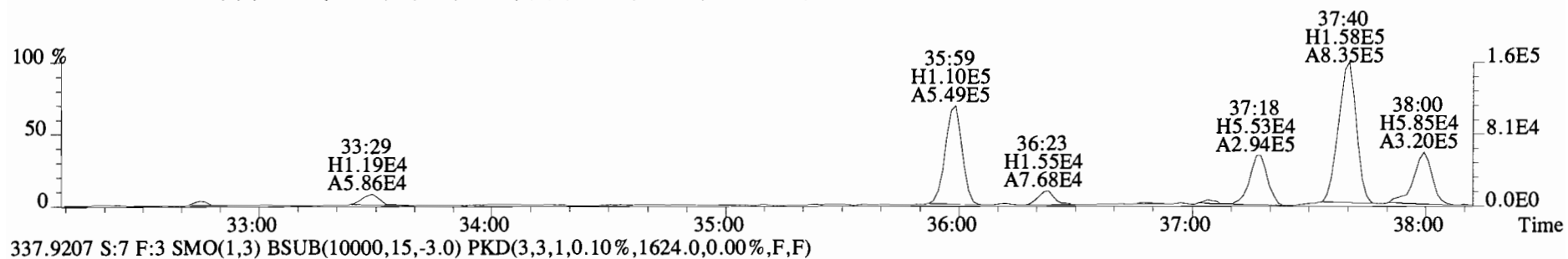
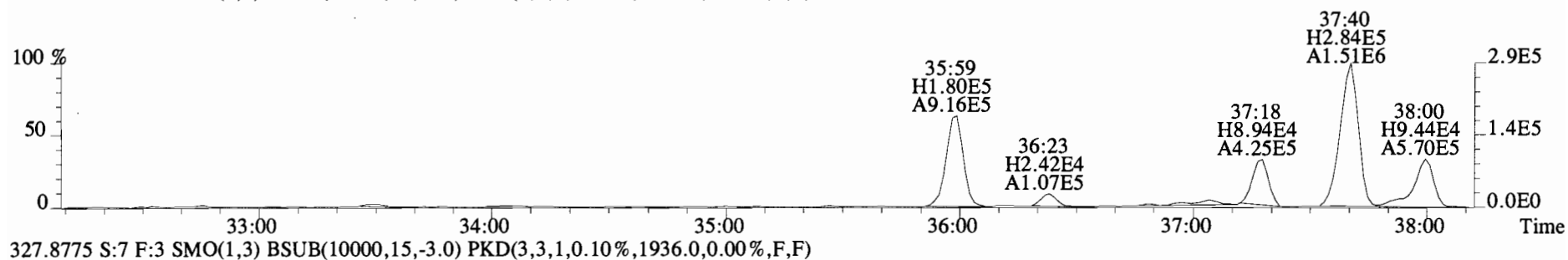
303.9597 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4136.0,0.00%,F,F)



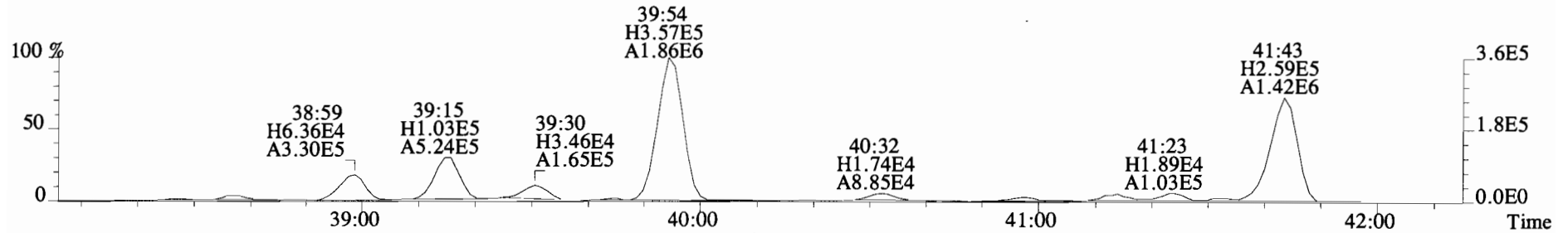
File:140924E1 #1-762 Acq:24-SEP-2014 17:35:34 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
 325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2232.0,0.00%,F,F)



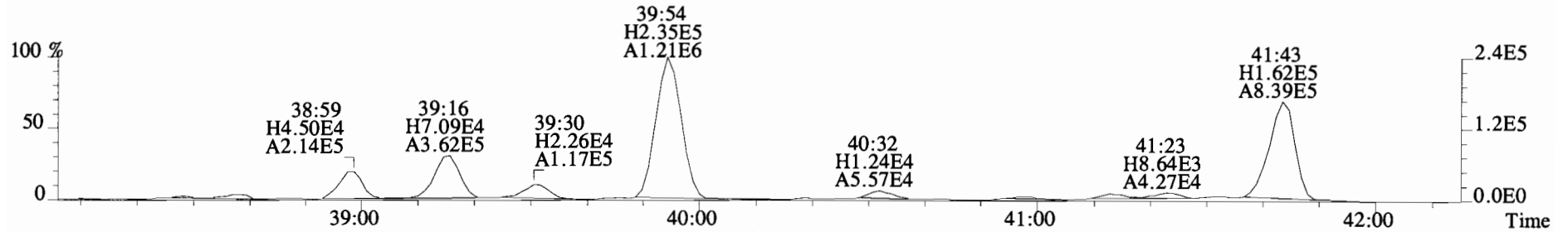
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2232.0,0.00%,F,F)



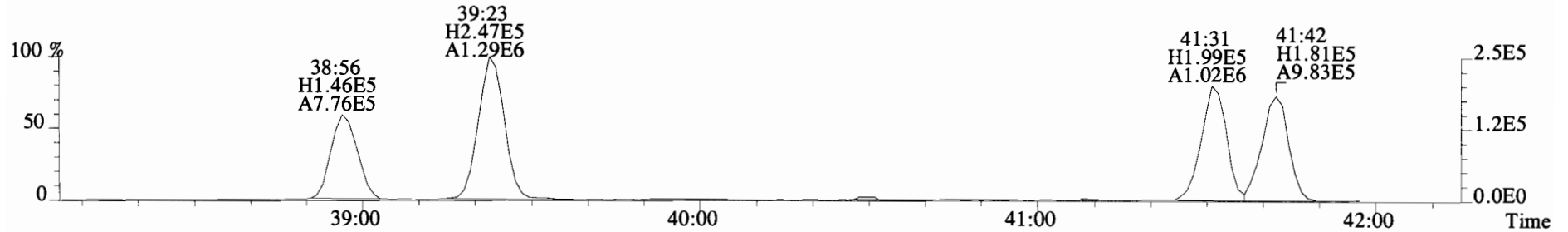
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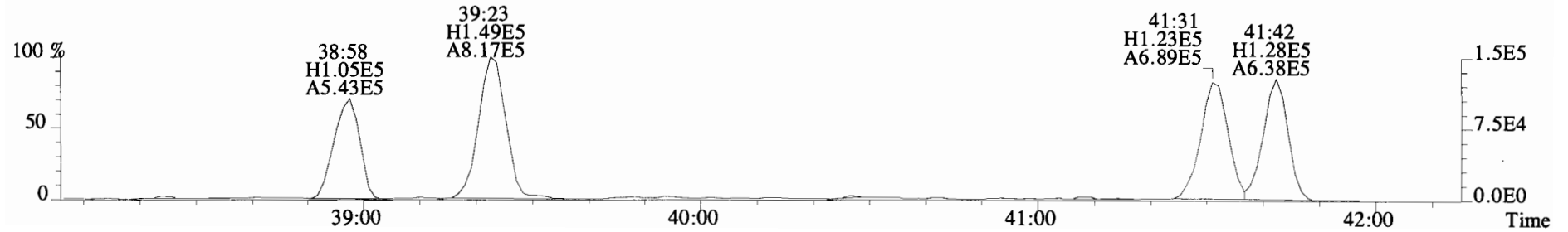
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1936.0,0.00%,F,F)



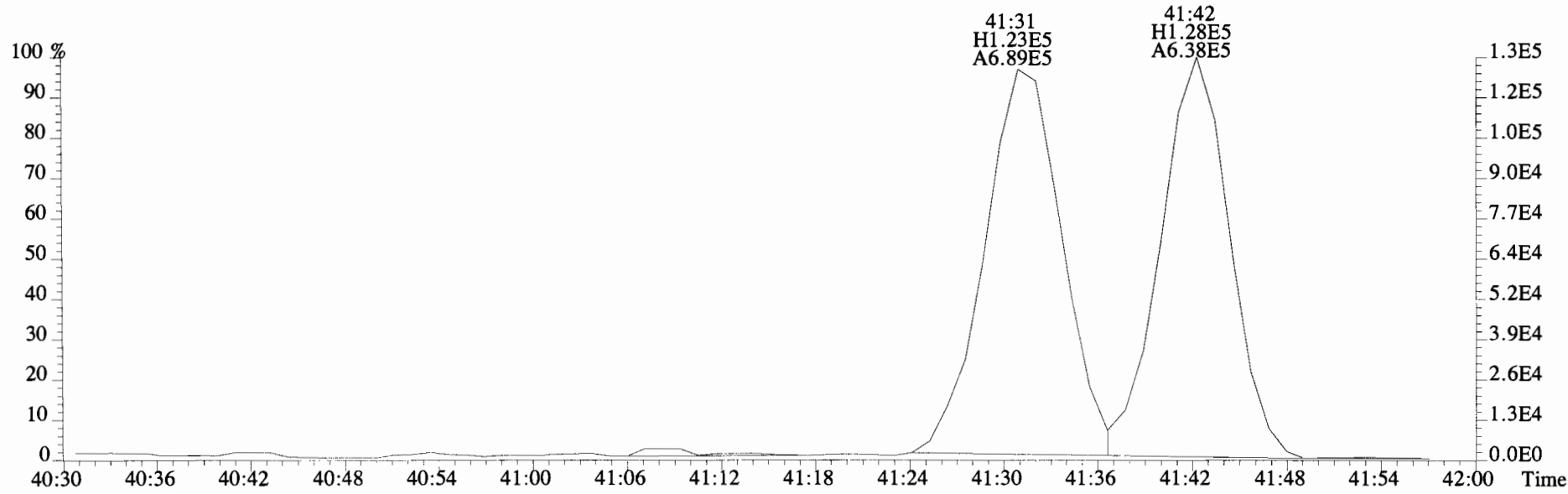
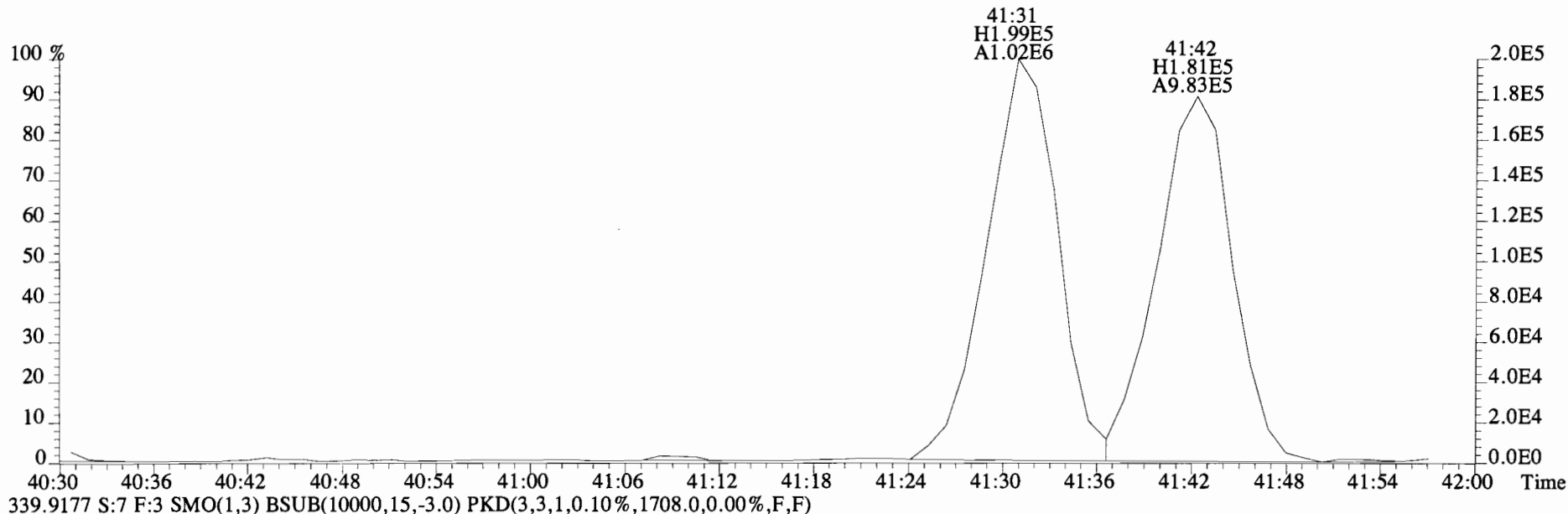
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1624.0,0.00%,F,F)



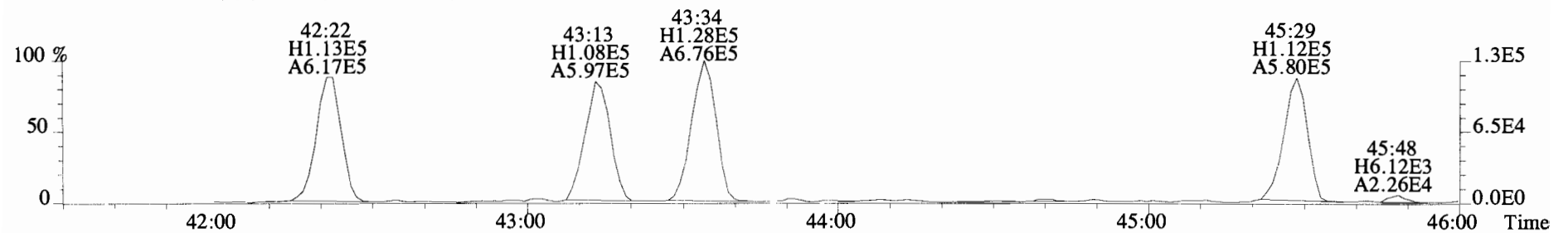
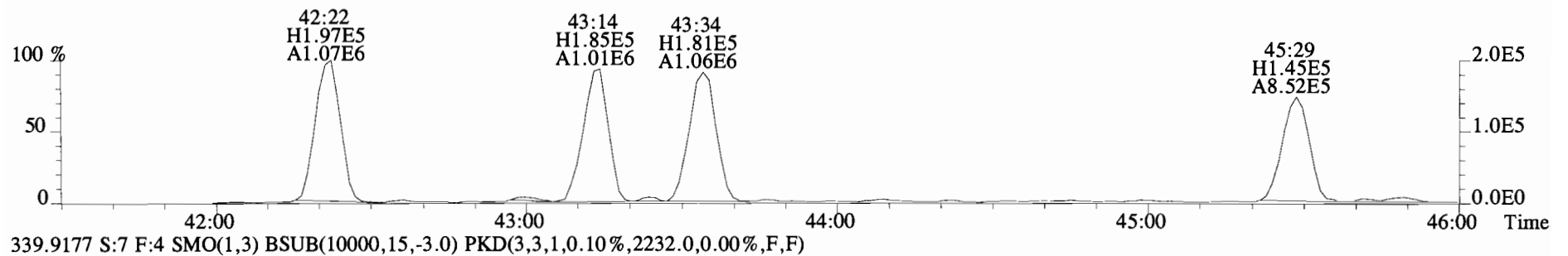
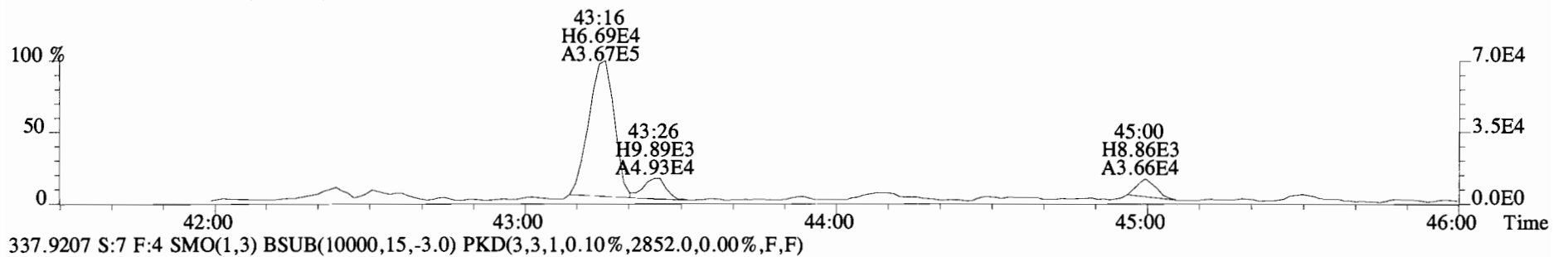
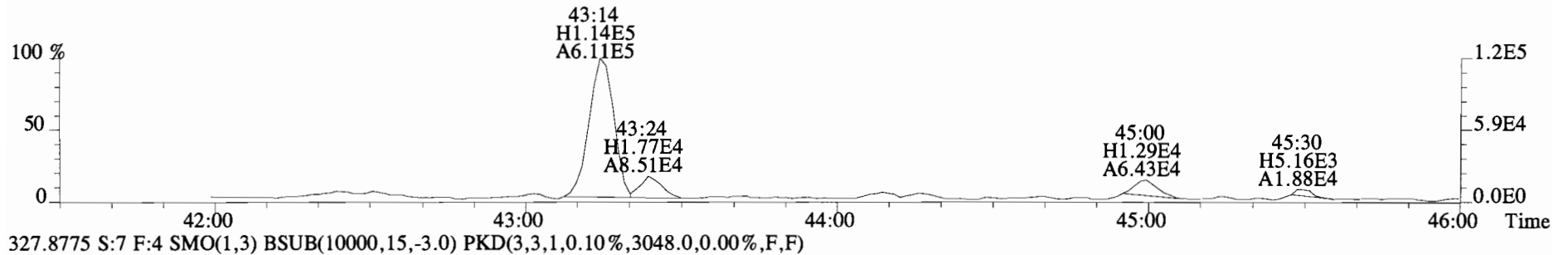
339.9177 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1708.0,0.00%,F,F)



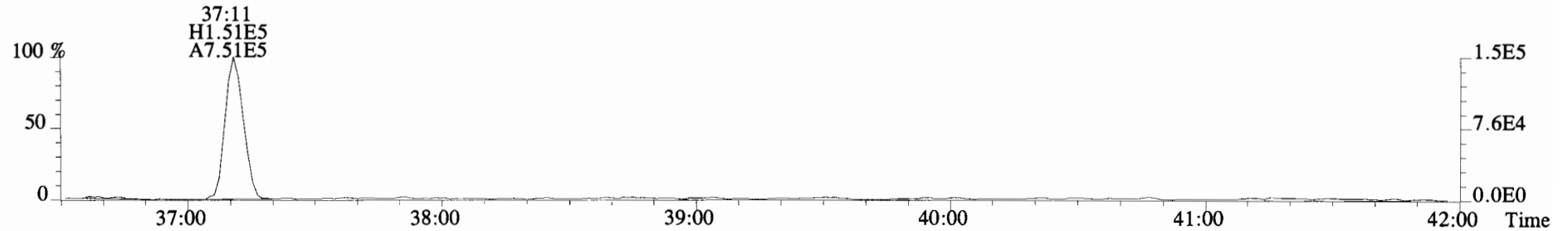
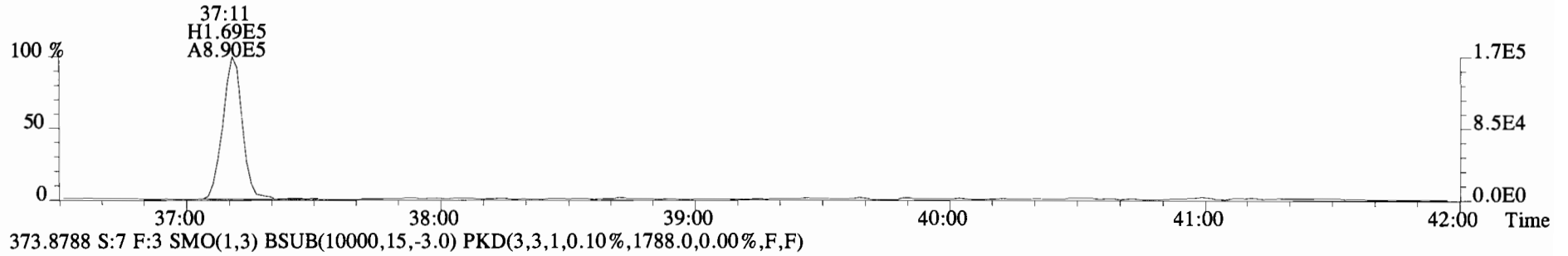
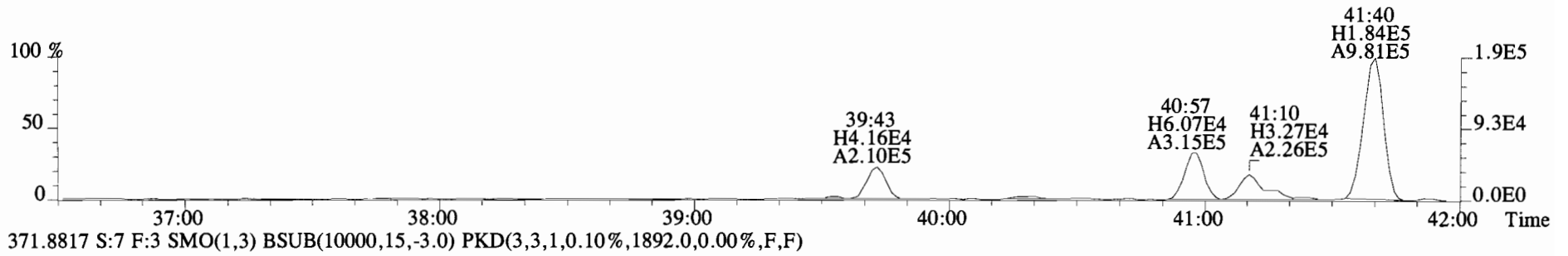
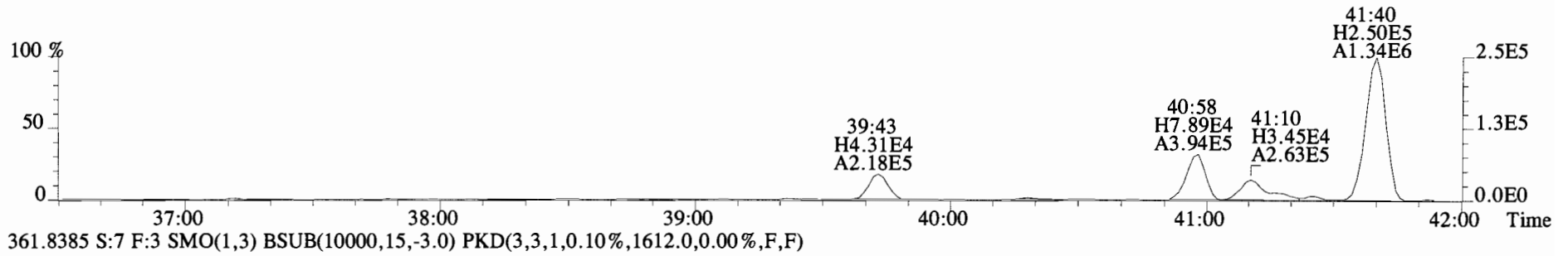
File:140924E1 #1-762 Acq:24-SEP-2014 17:35:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1624.0,0.00%,F,F)



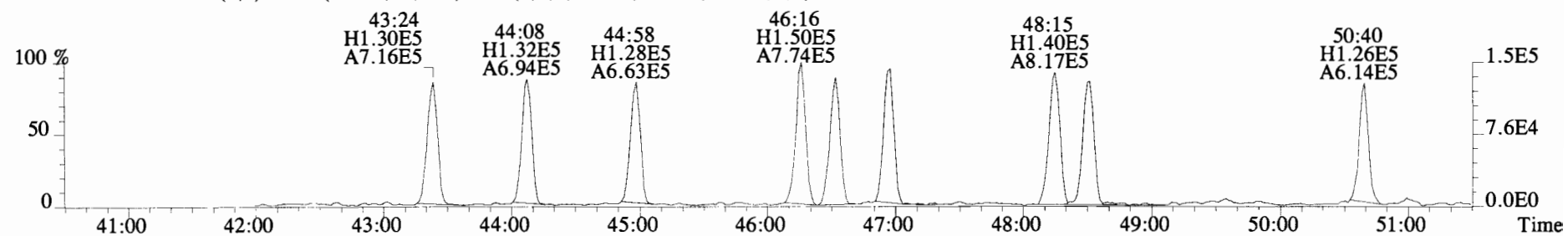
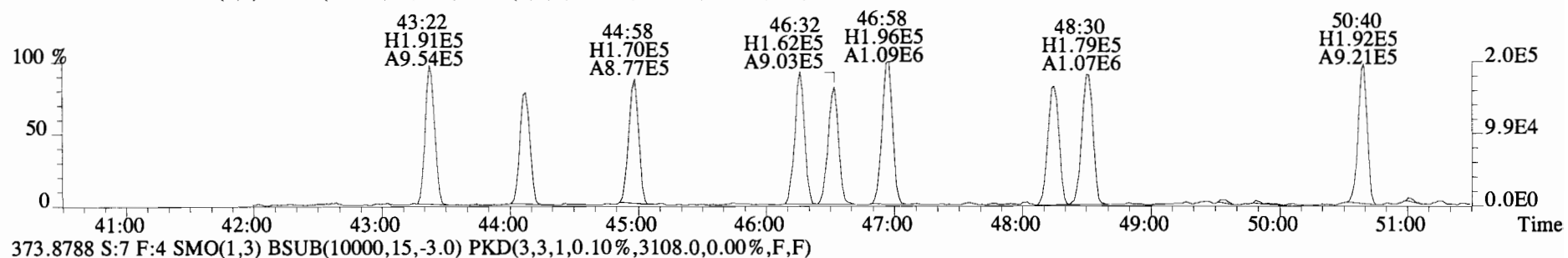
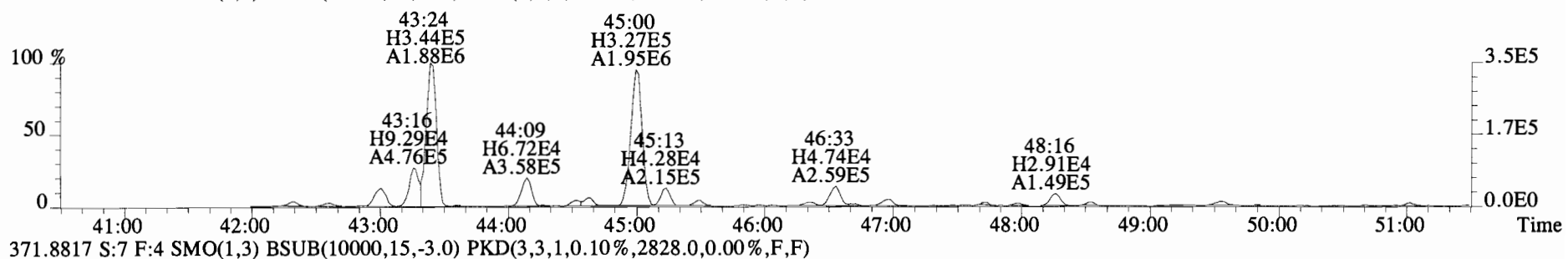
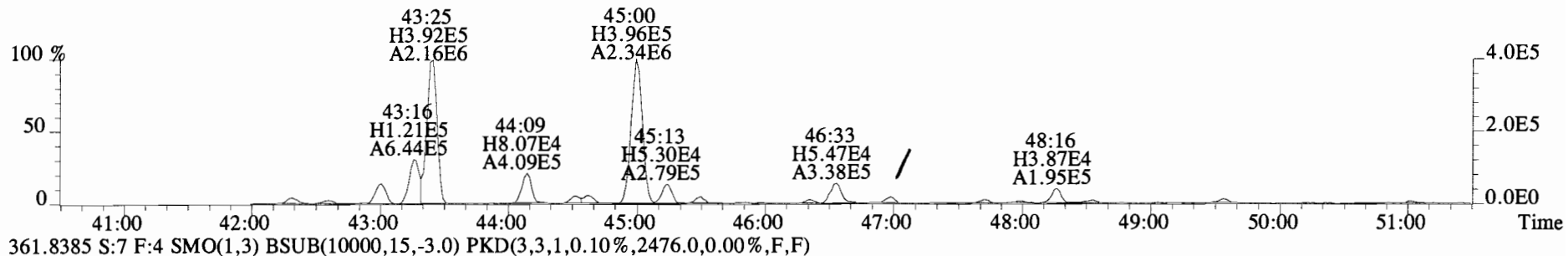
File:140924E1 #1-560 Acq:24-SEP-2014 17:35:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
325.8804 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4384.0,0.00%,F,F)



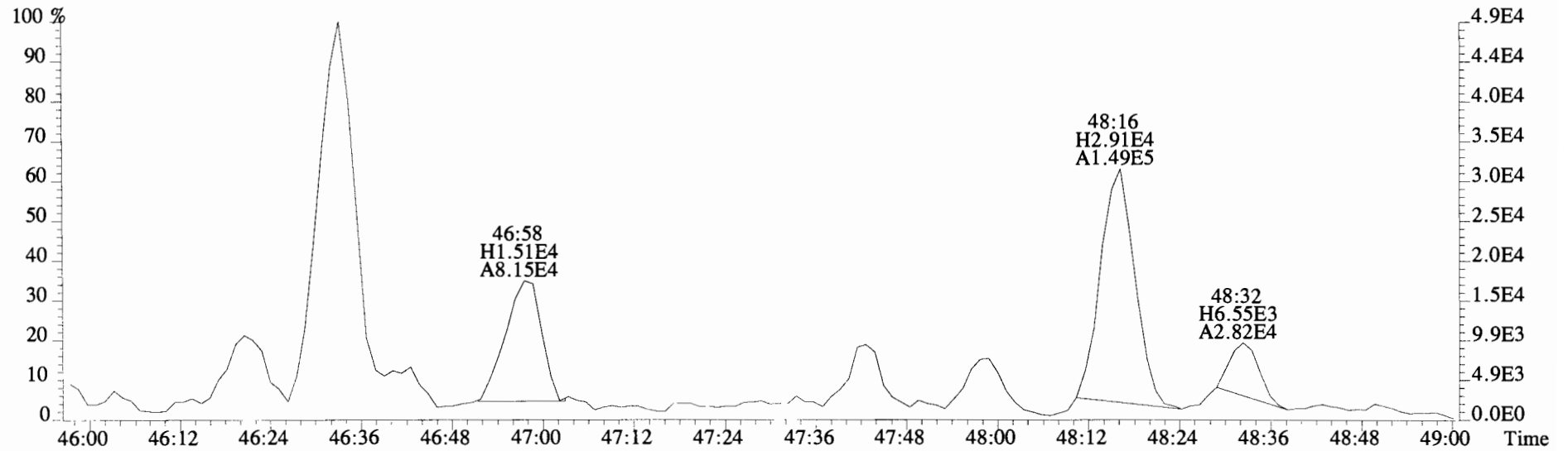
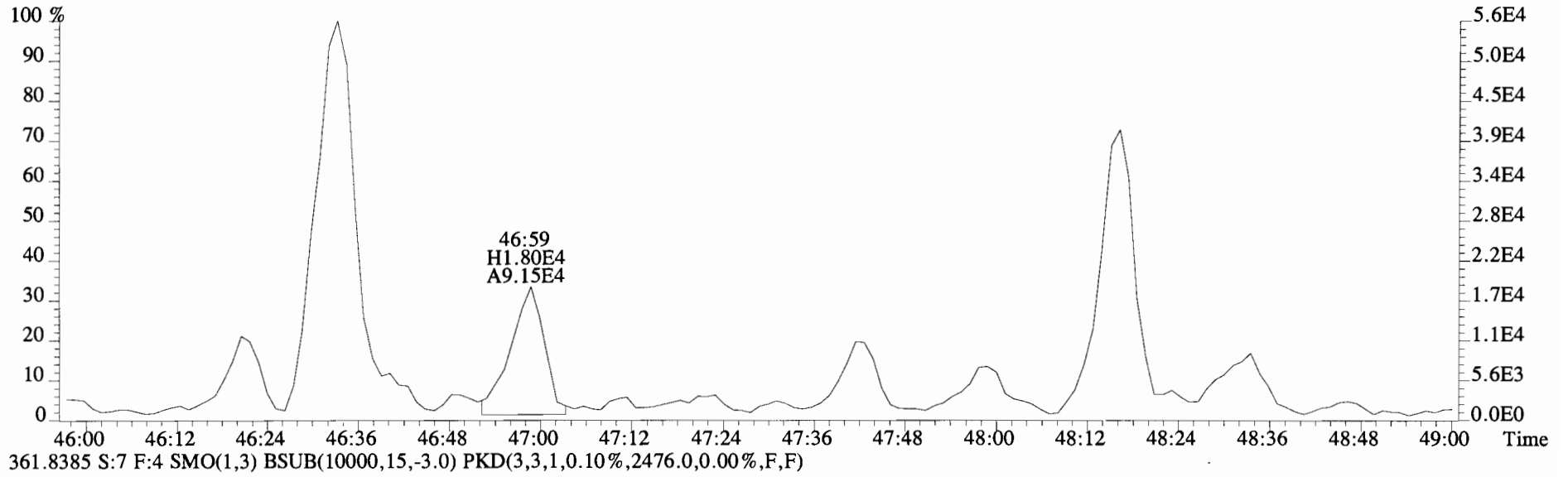
File:140924E1 #1-762 Acq:24-SEP-2014 17:35:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1616.0,0.00%,F,F)



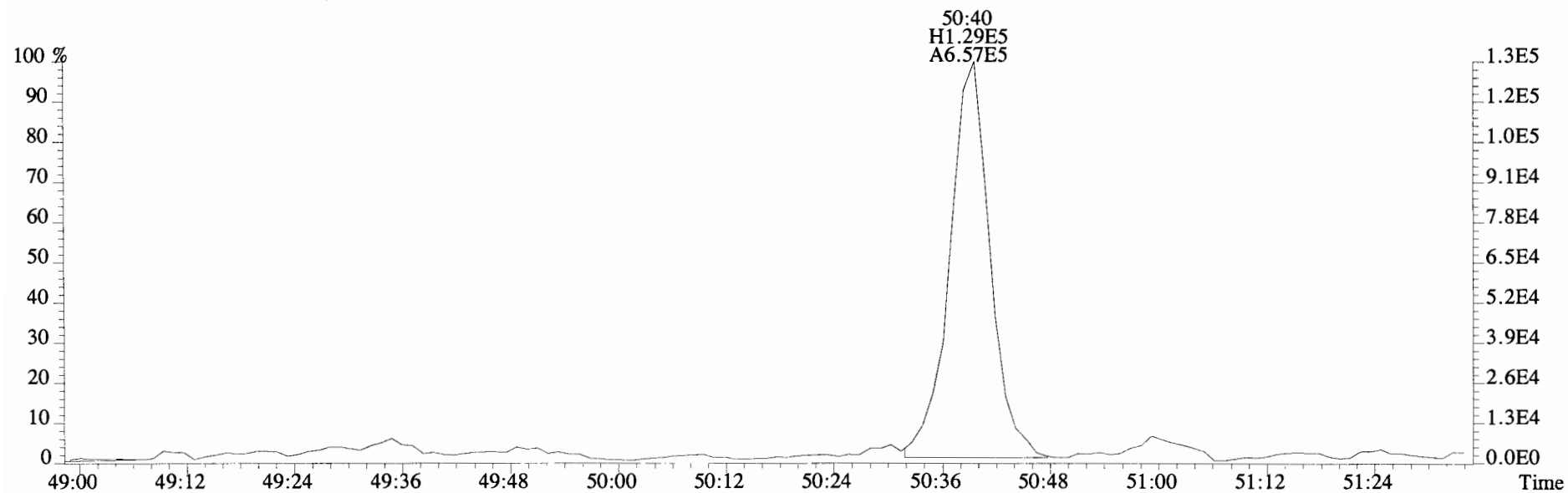
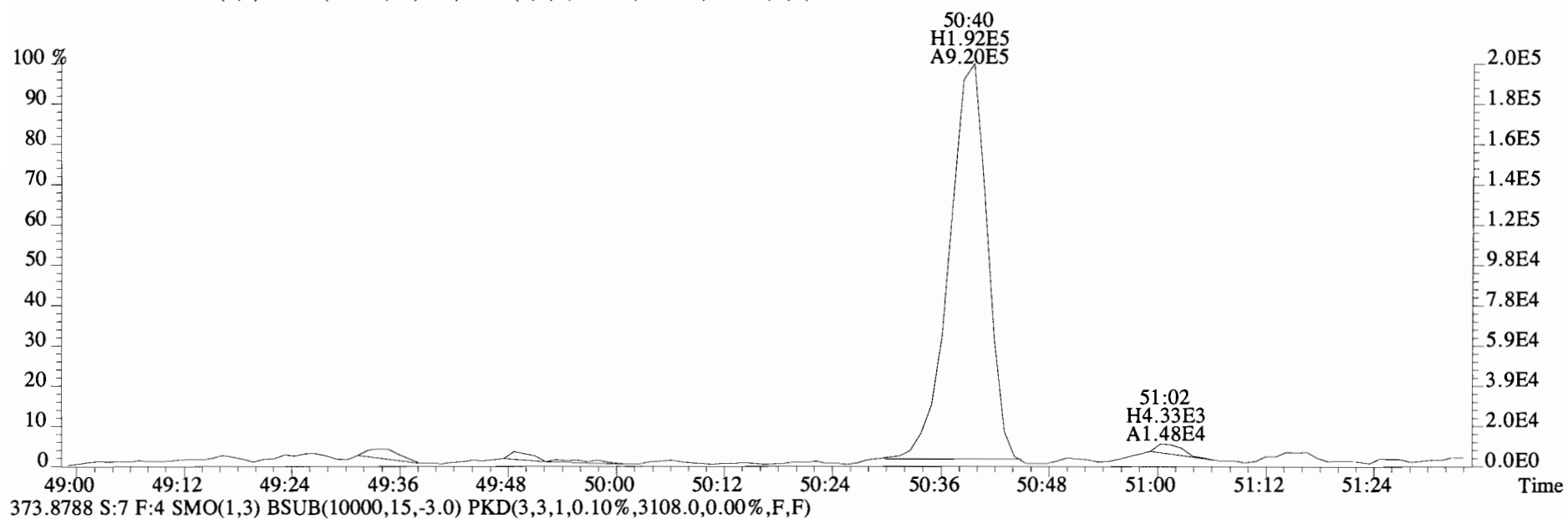
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2608.0,0.00%,F,F)



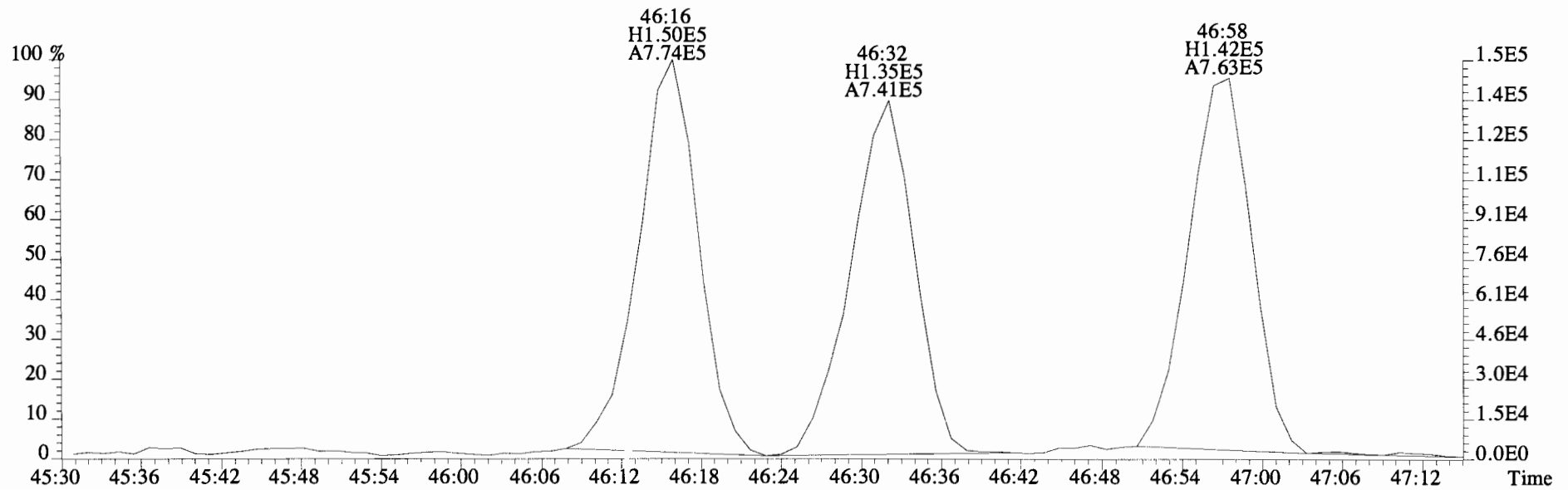
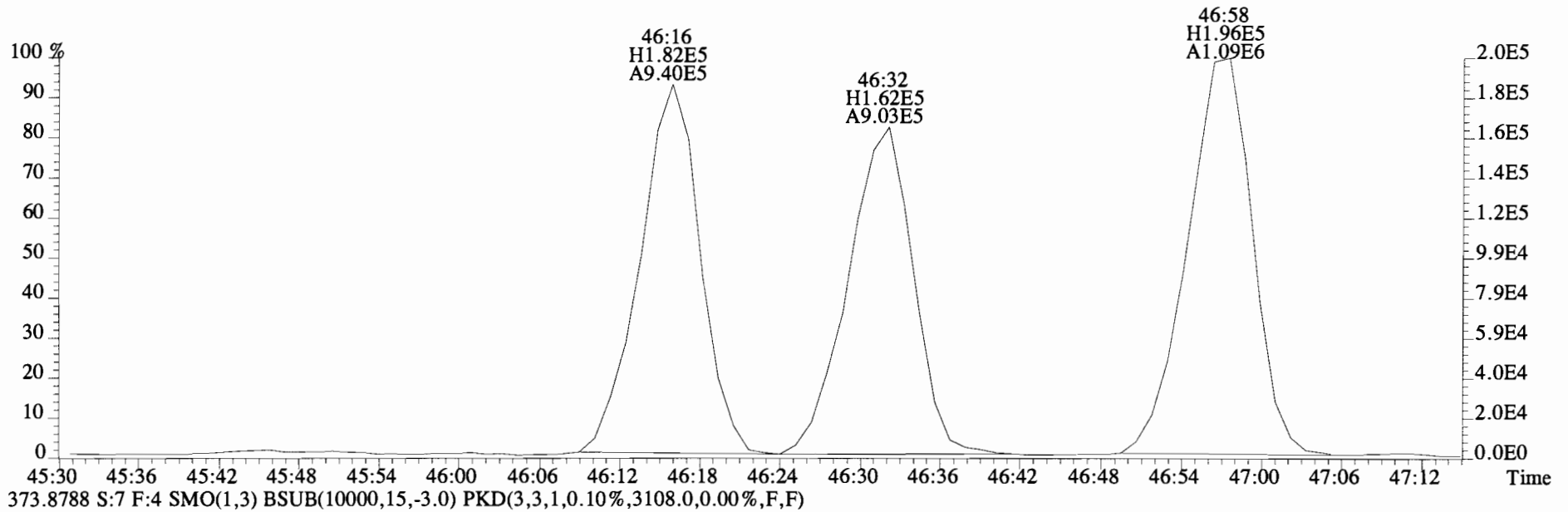
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2608.0,0.00%,F,F)



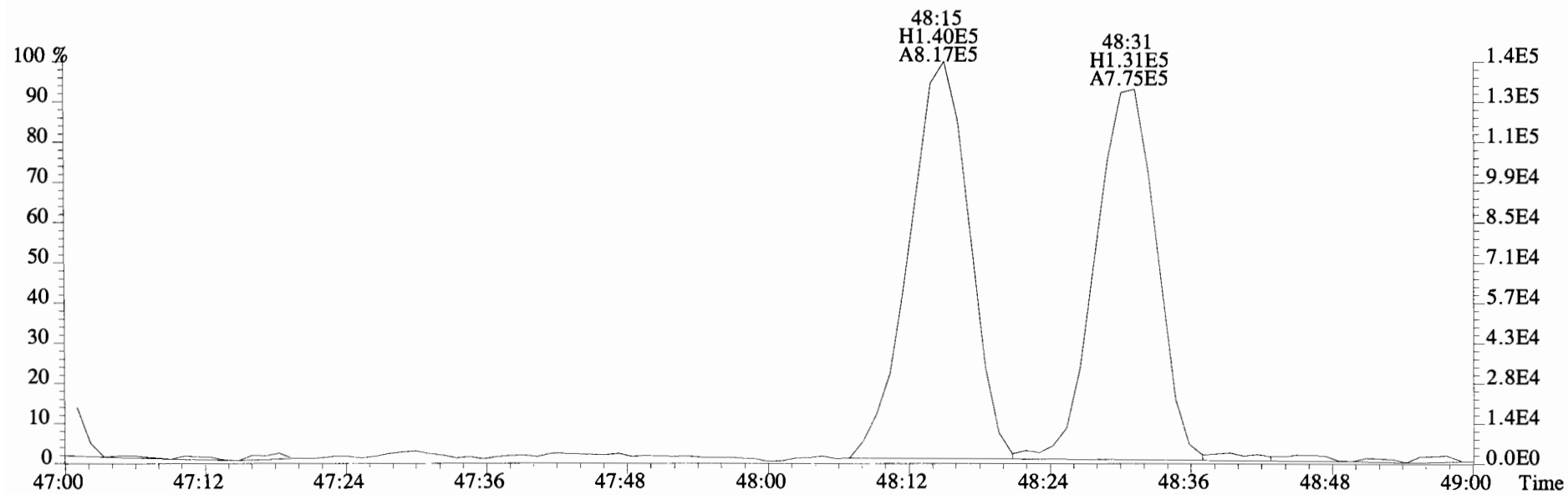
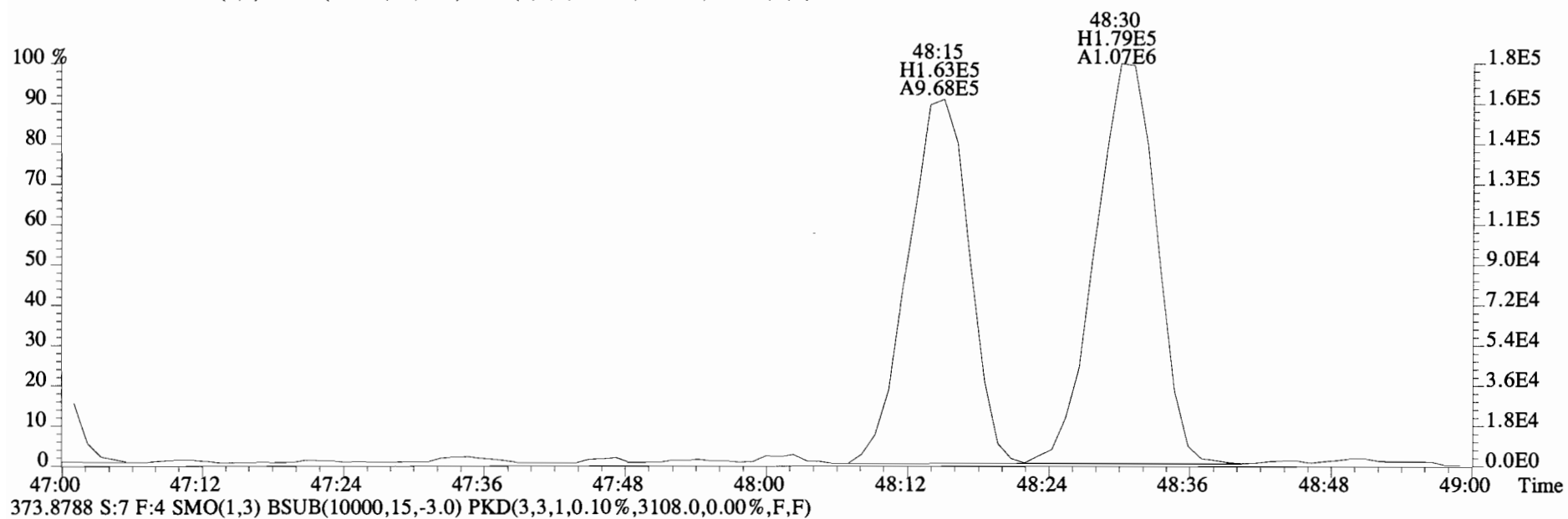
File:140924E1 #1-560 Acq:24-SEP-2014 17:35:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
371.8817 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2828.0,0.00%,F,F)



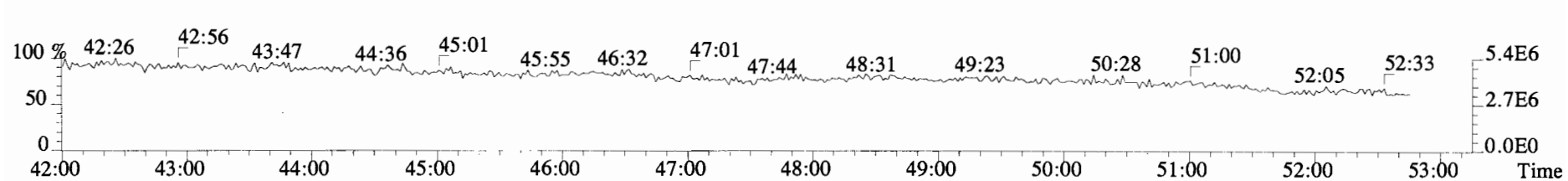
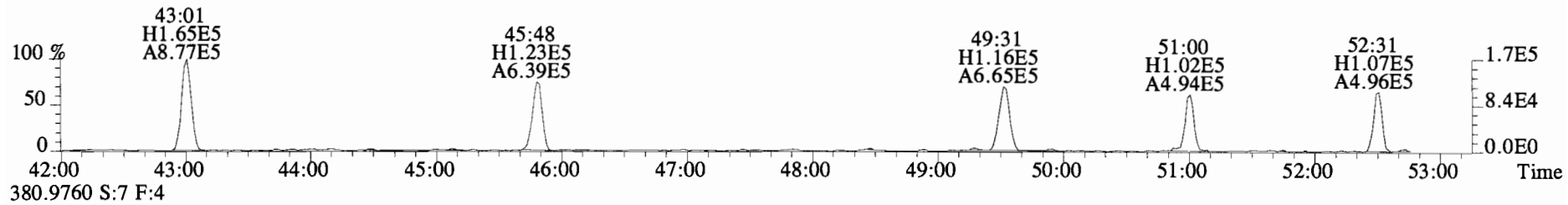
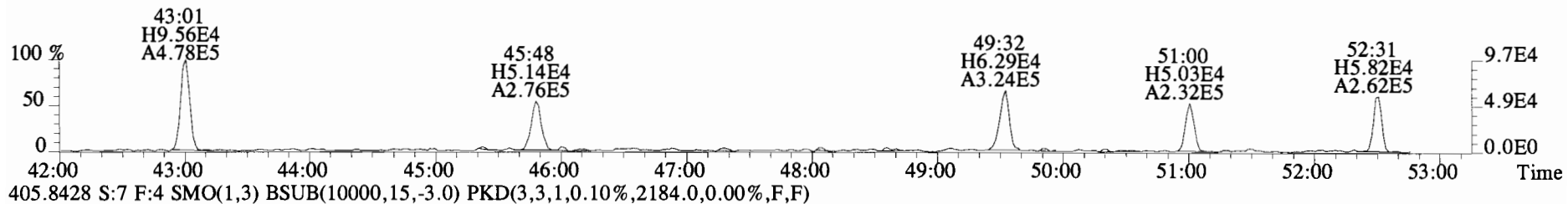
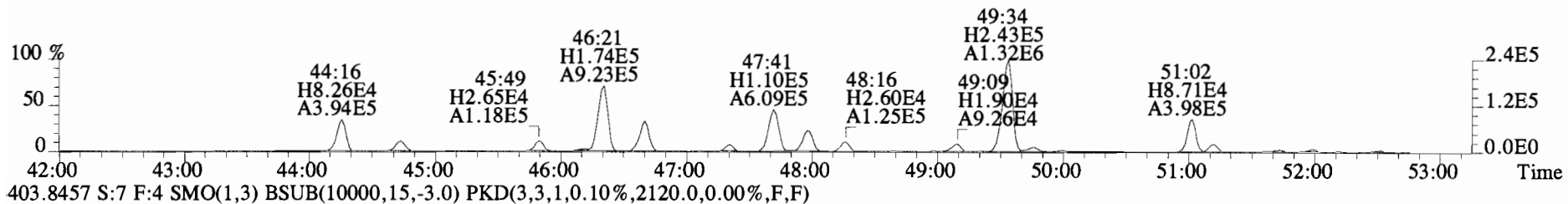
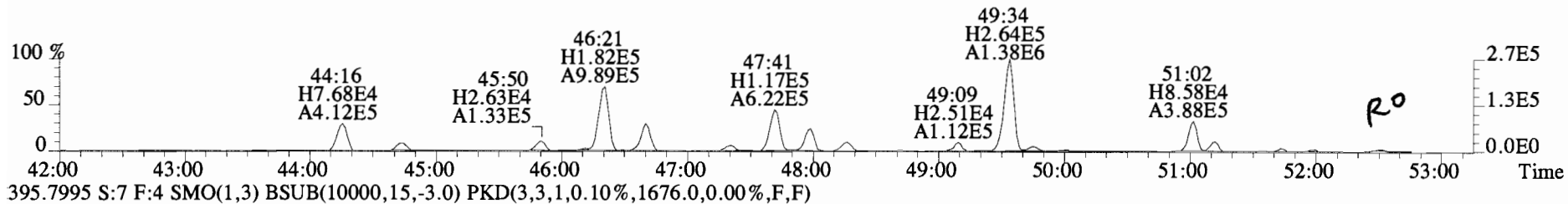
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
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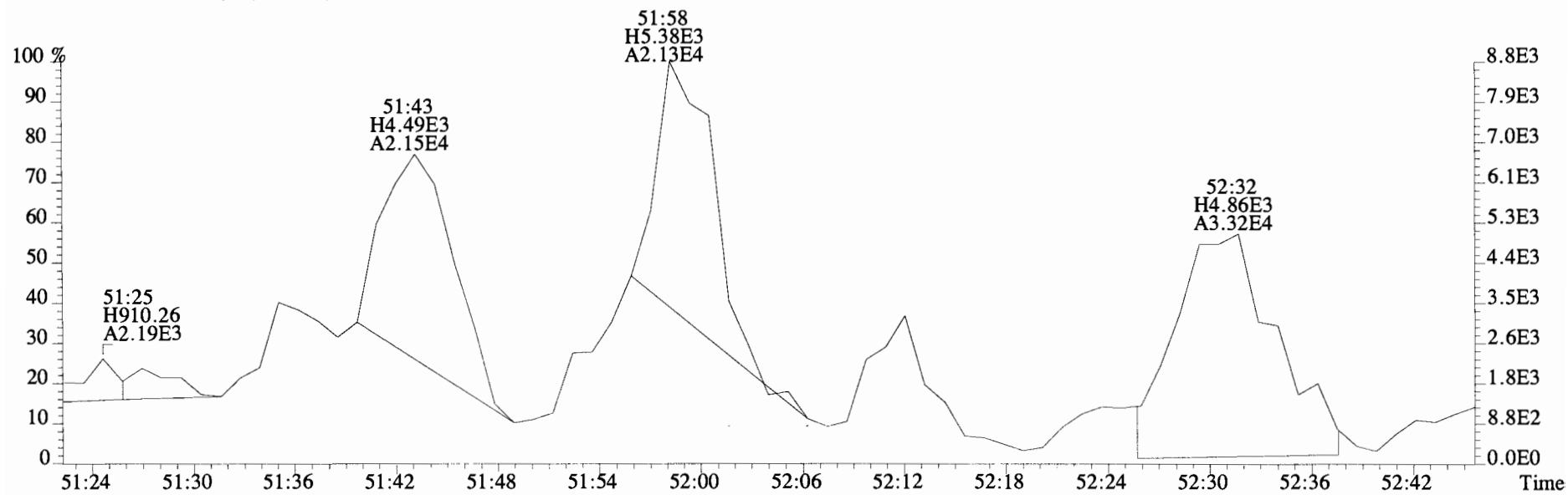
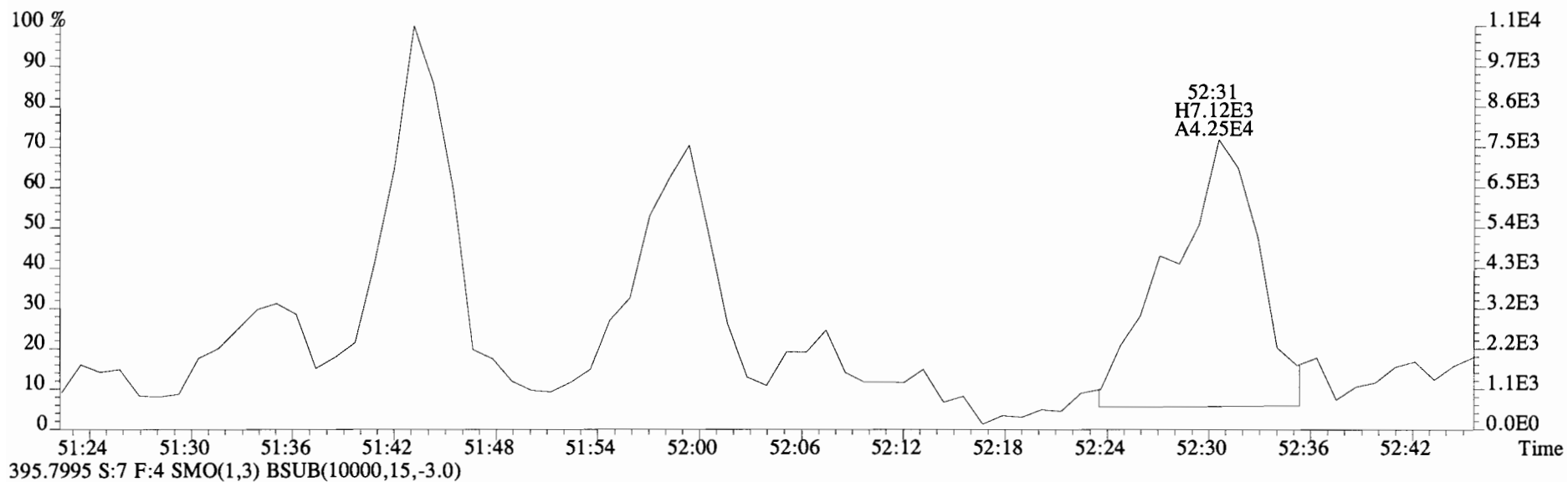
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
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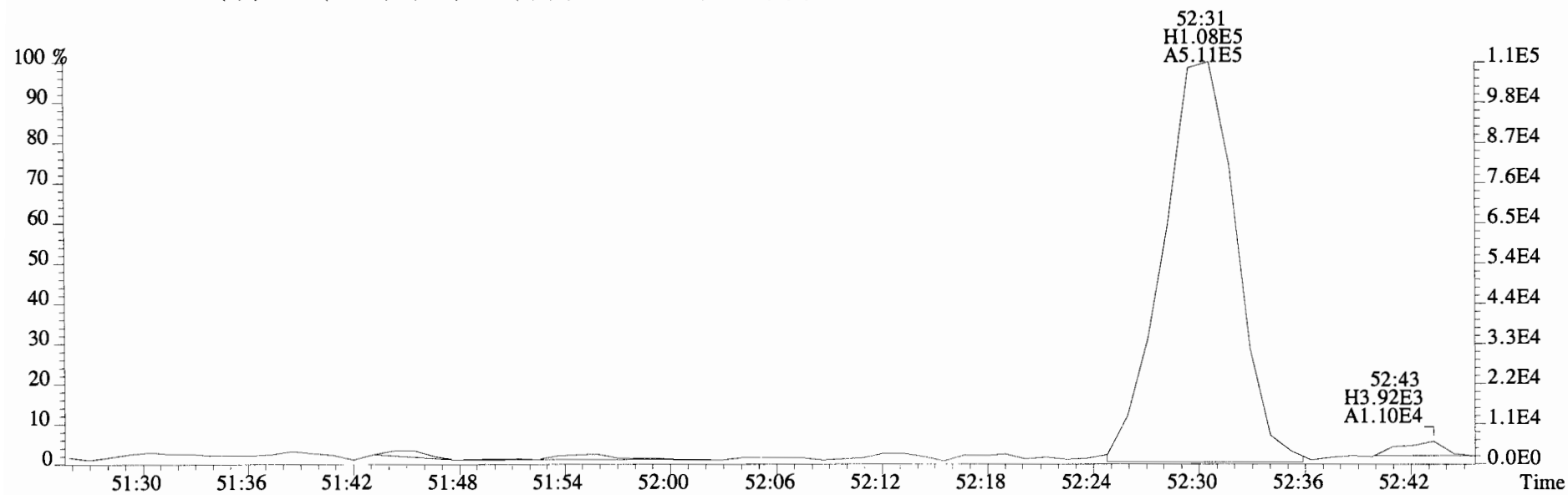
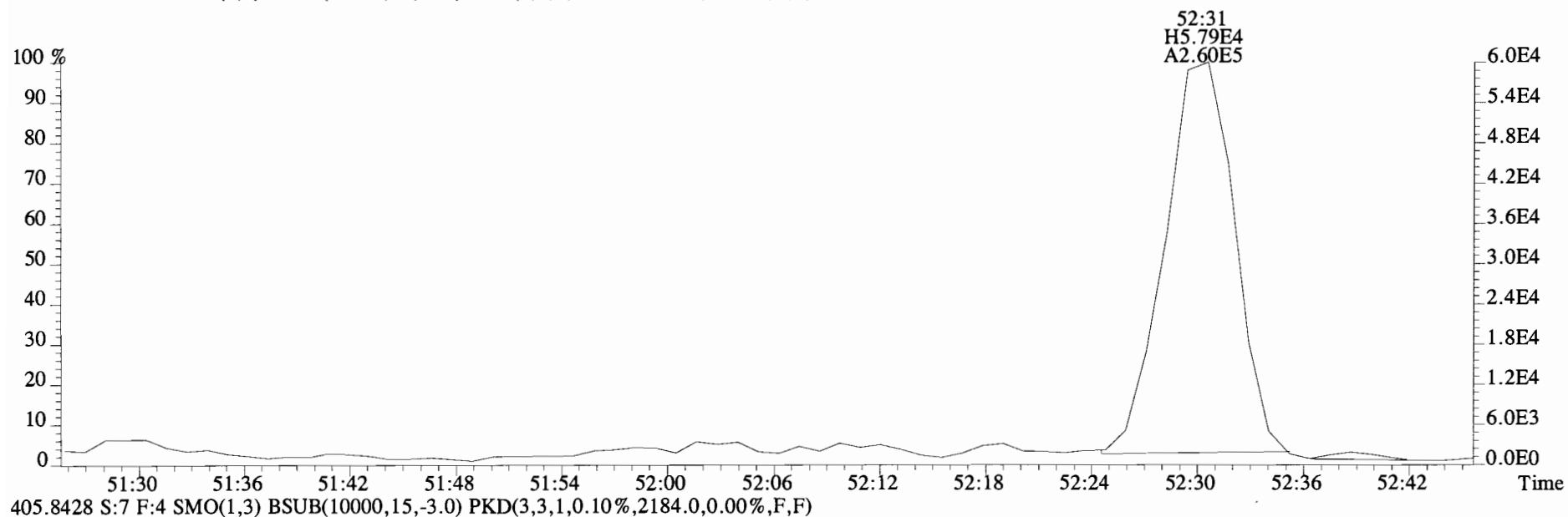
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393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1964.0,0.00%,F,F)



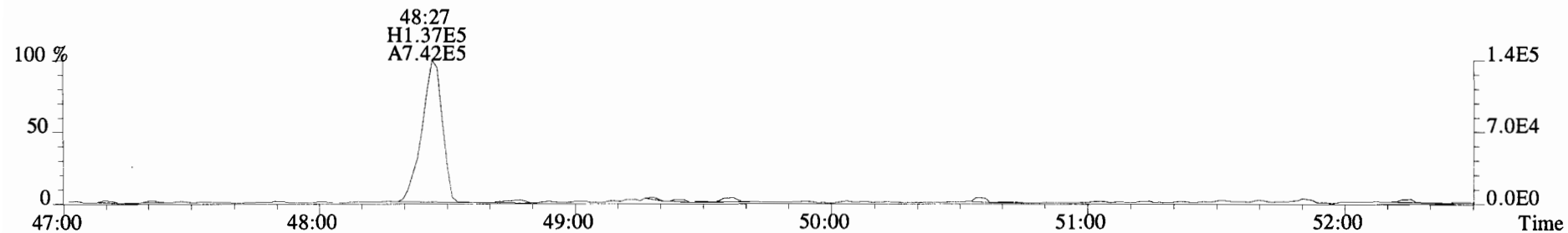
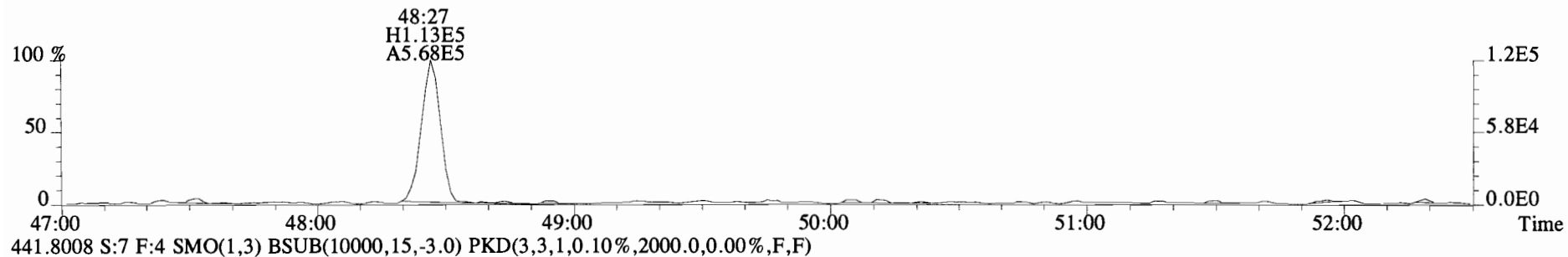
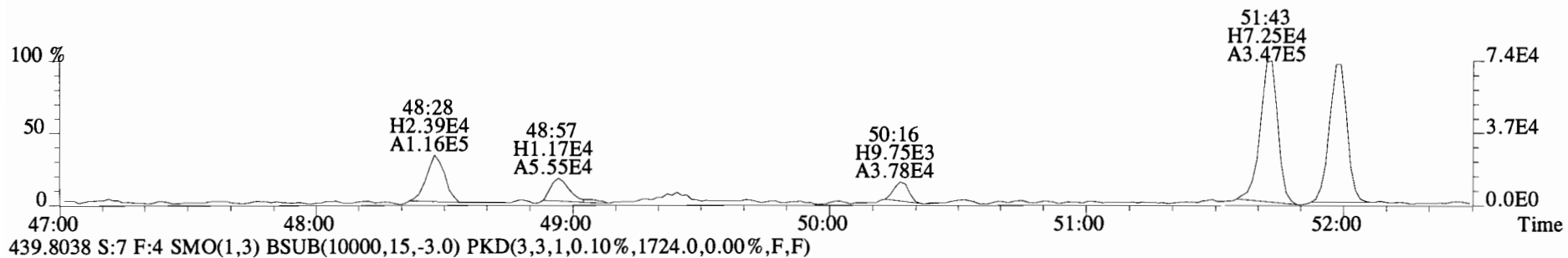
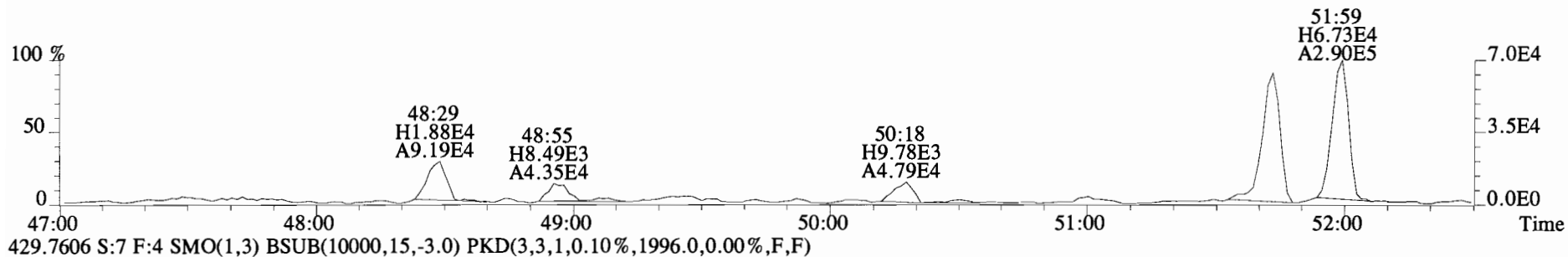
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



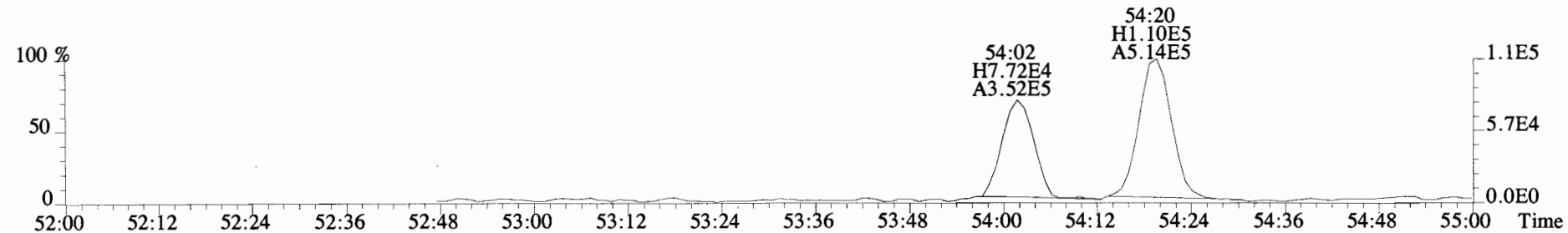
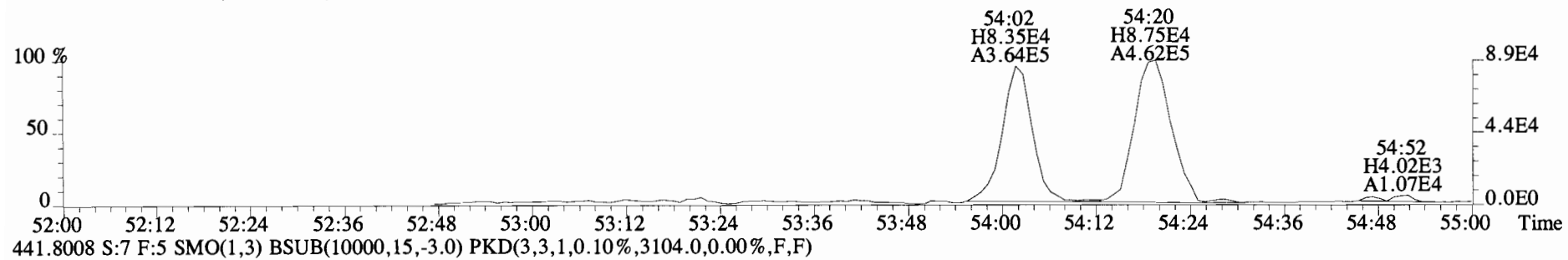
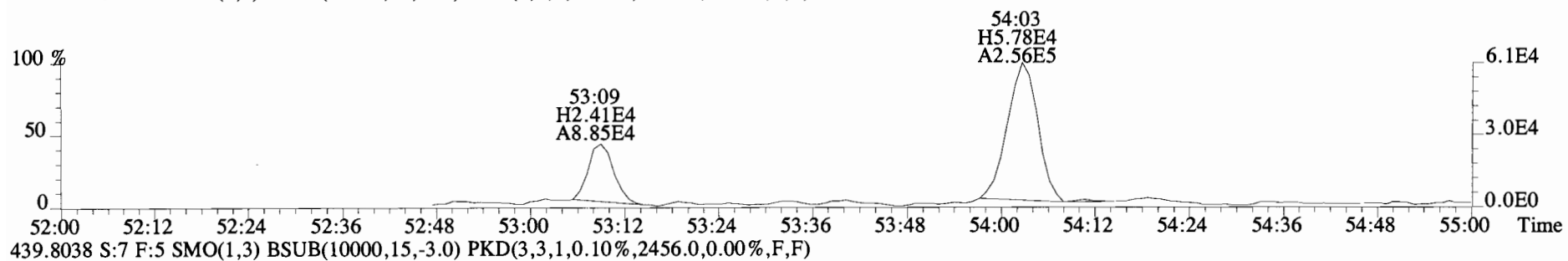
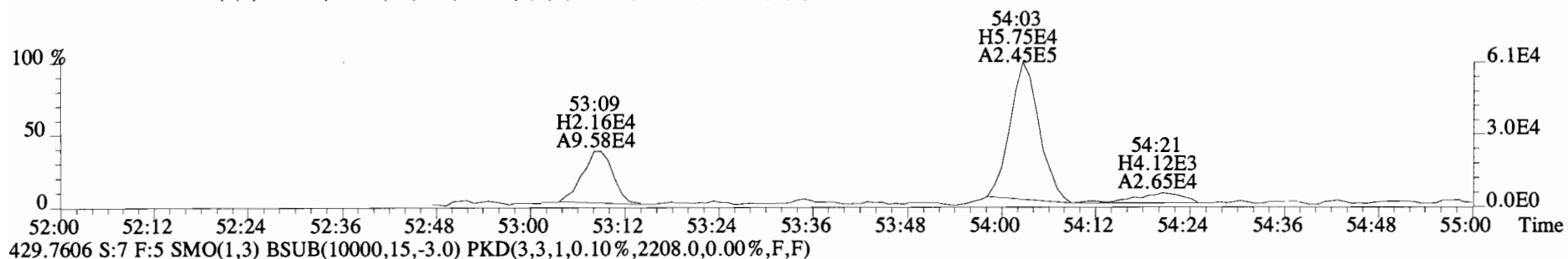
File:140924E1 #1-560 Acq:24-SEP-2014 17:35:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
403.8457 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2120.0,0.00%,F,F)



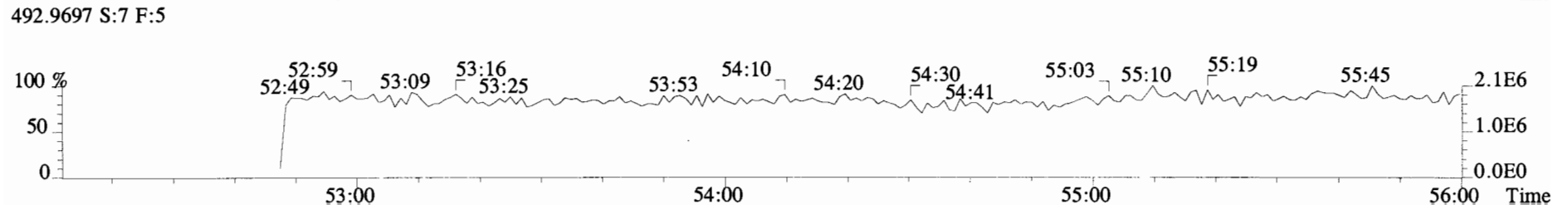
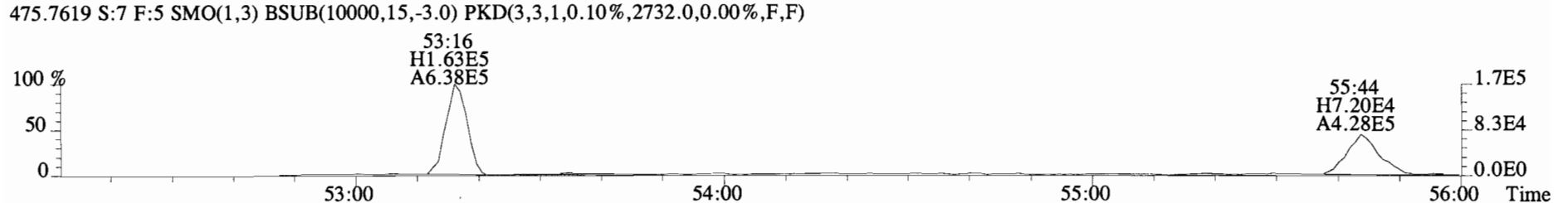
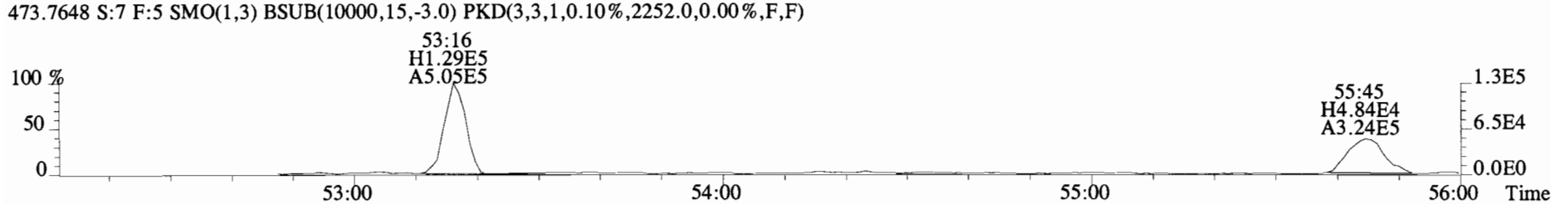
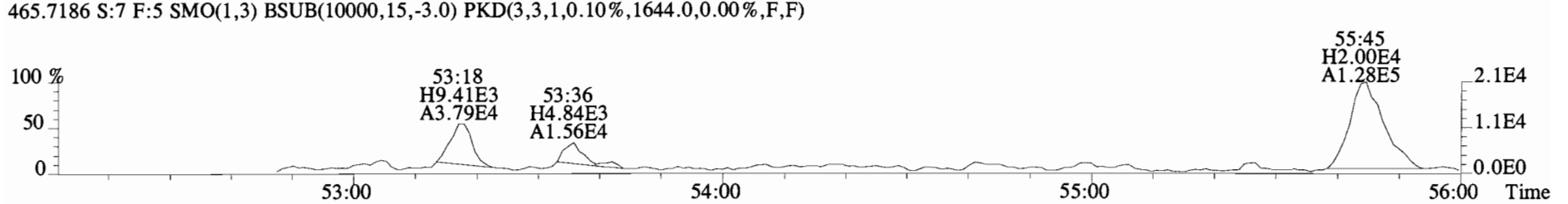
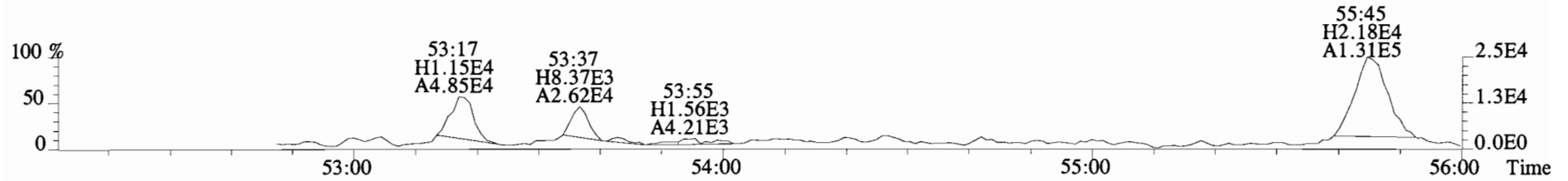
File:140924E1 #1-560 Acq:24-SEP-2014 17:35:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
429.7635 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1900.0,0.00%,F,F)



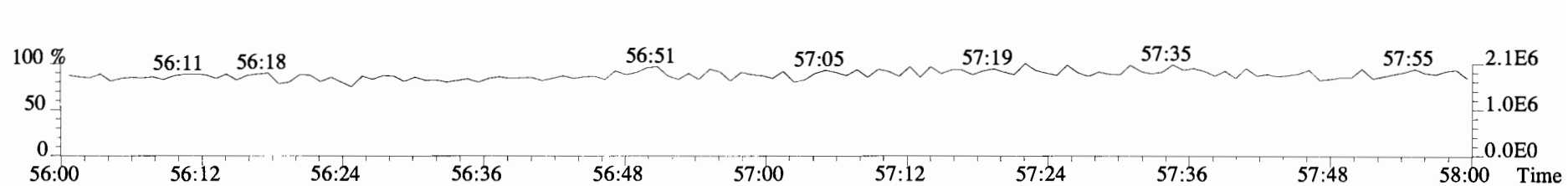
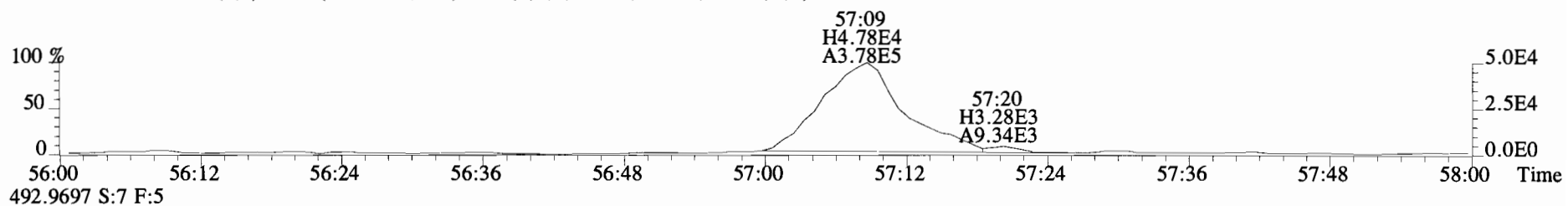
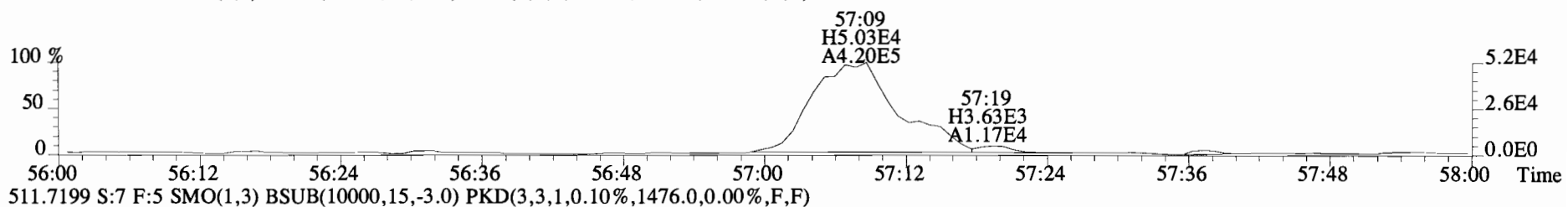
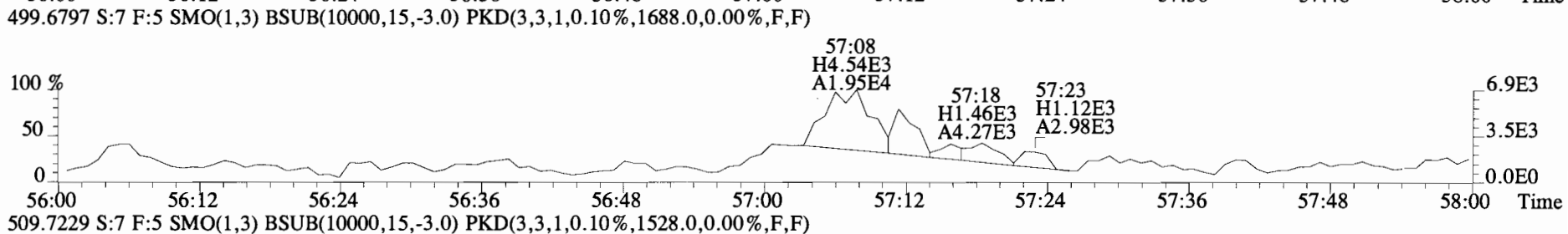
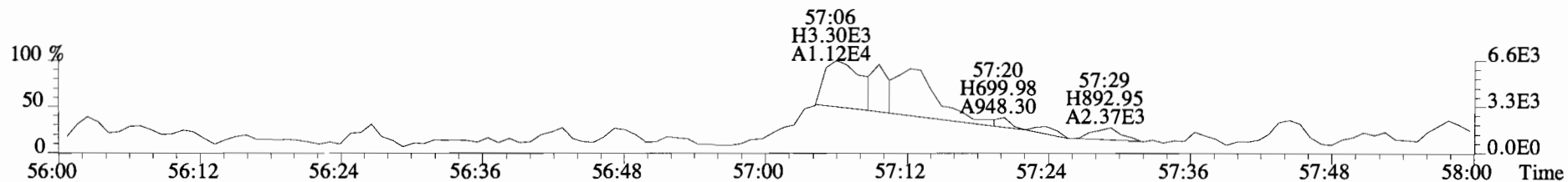
File:140924E1 #1-418 Acq:24-SEP-2014 17:35:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
427.7635 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2272.0,0.00%,F,F)



File:140924E1 #1-418 Acq:24-SEP-2014 17:35:34 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
 463.7216 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2288.0,0.00%,F,F)



File:140924E1 #1-418 Acq:24-SEP-2014 17:35:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400659-03RE1 DL 1:20 PS-TS-01-20140909-S Exp:PCB_ZB1
497.6826 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1424.0,0.00%,F,F)



CONFIRMATION

Client ID: PS-TS-01-20140909-S
Lab ID: 1400659-03RE1

Filename: 140918D1 S:4 Acq:18-SEP-14 13:45:53
GC Column ID: DB-225 ICal: 1613TCDFVG7-3-10-14 wt/vol:10.085

ConCal: ST140918D1-1
EndCAL: NA

Page 2 of 7

| Name | Resp | RA | RT | RRF | Conc | Rec |
|------------------|----------|--------|-------|------|--------|------|
| 13C-1,2,3,4-TCDF | 3.54e+07 | 0.79 y | 15:27 | 1.00 | 198.3 | - |
| 13C-2,3,7,8-TCDF | 3.12e+07 | 0.79 y | 17:46 | 0.93 | 188.3 | 94.9 |
| 2,3,7,8-TCDF | 1.57e+05 | 0.83 y | 17:47 | 1.16 | 0.8611 | |

Integrations

by
Analyst: ms

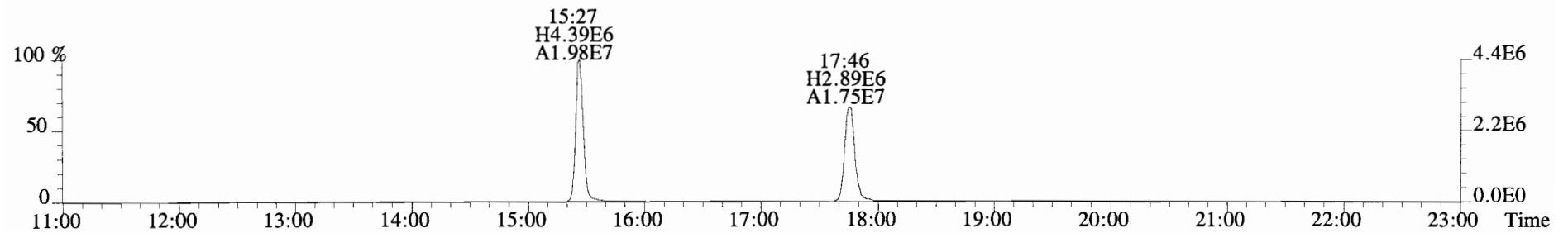
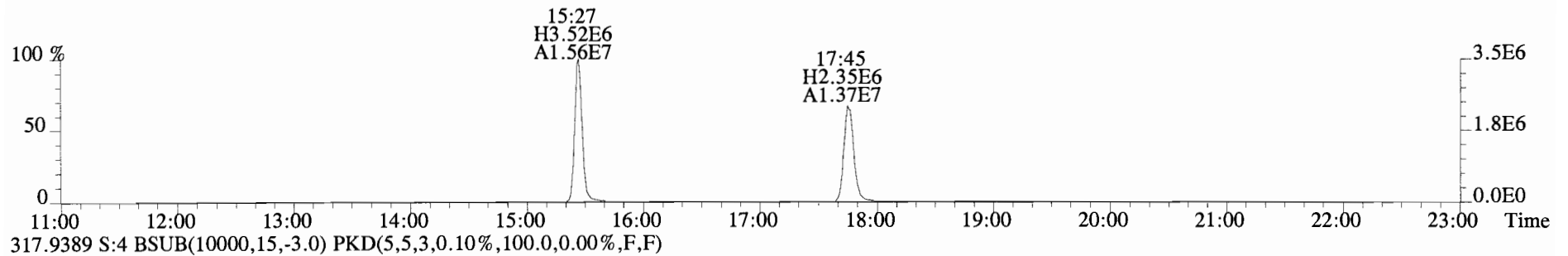
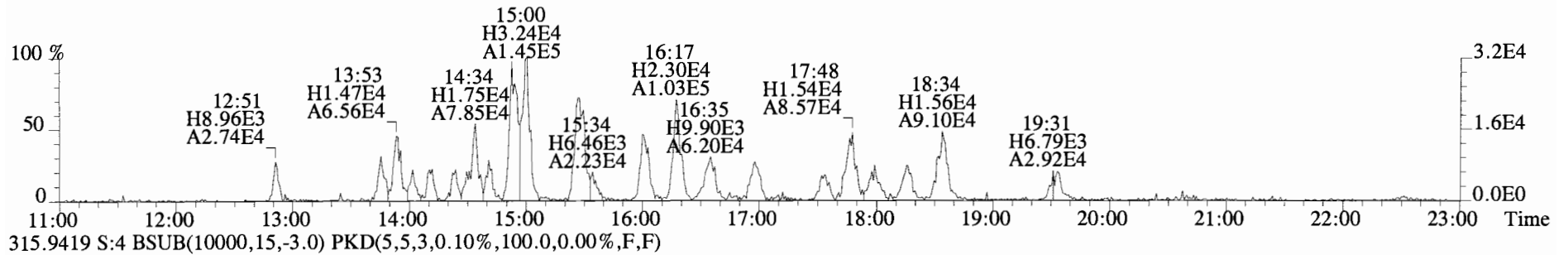
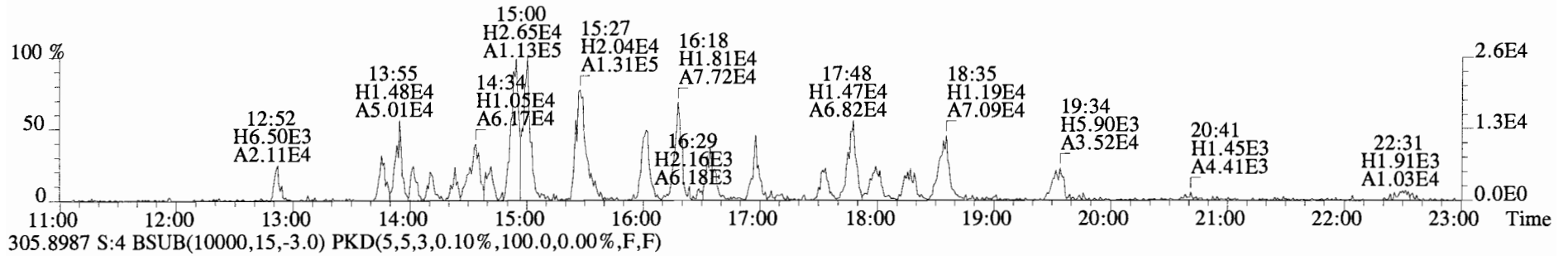
Date: 9/19/14

Reviewed

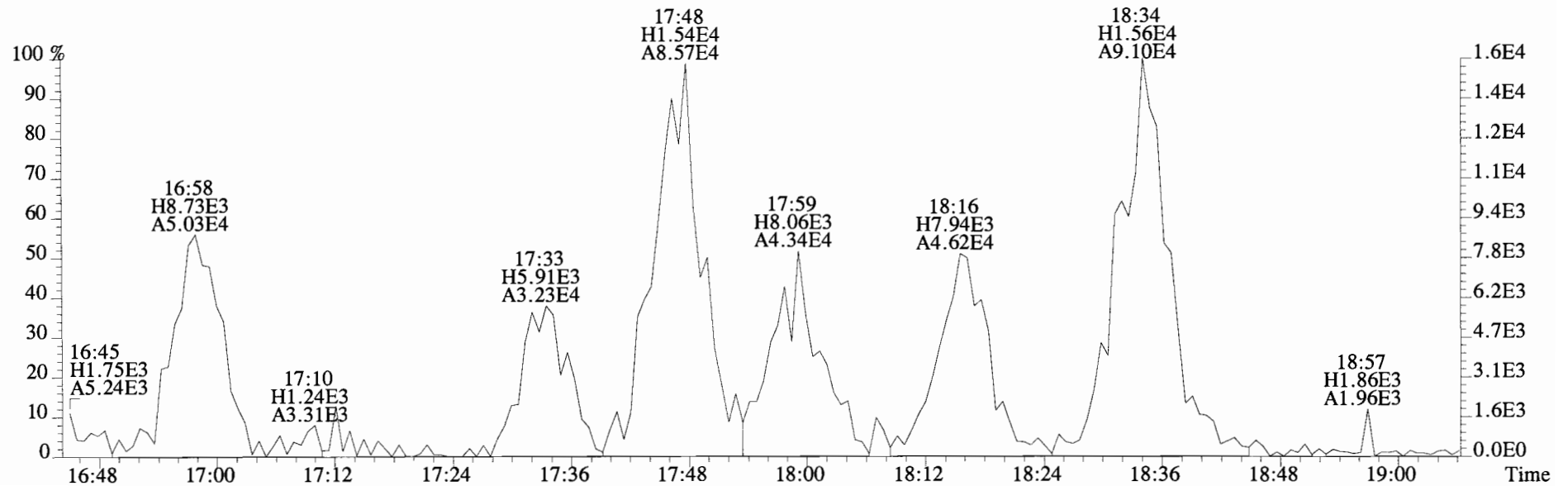
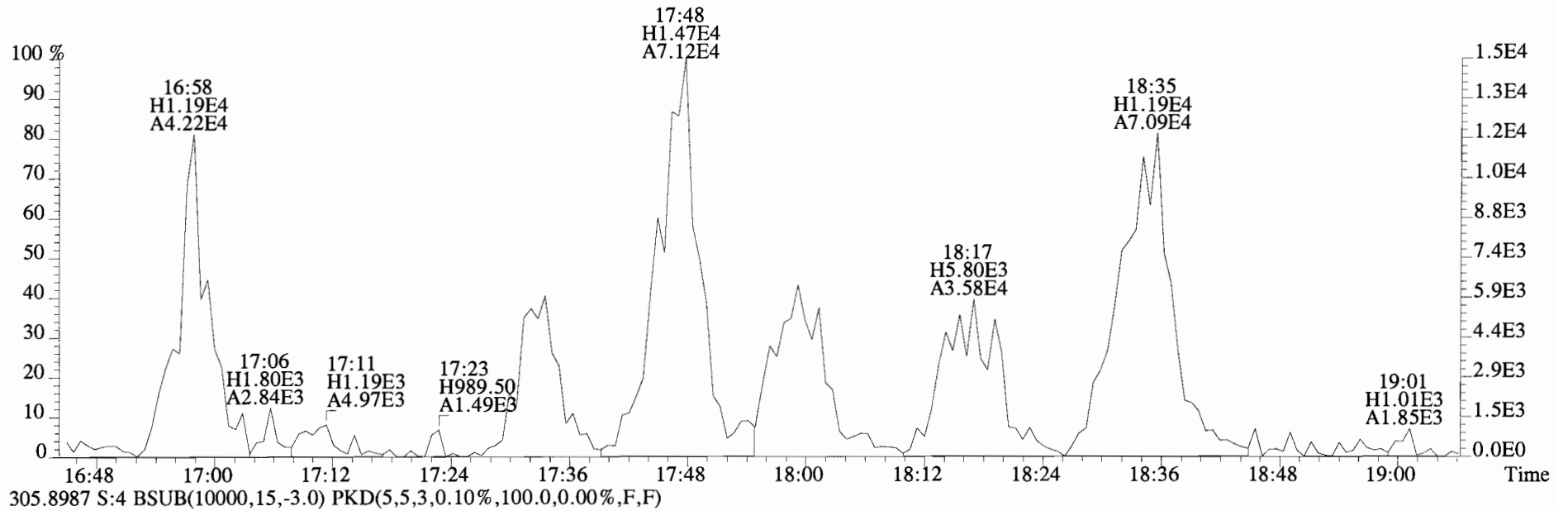
by
Analyst: epz

Date: 9/19/14

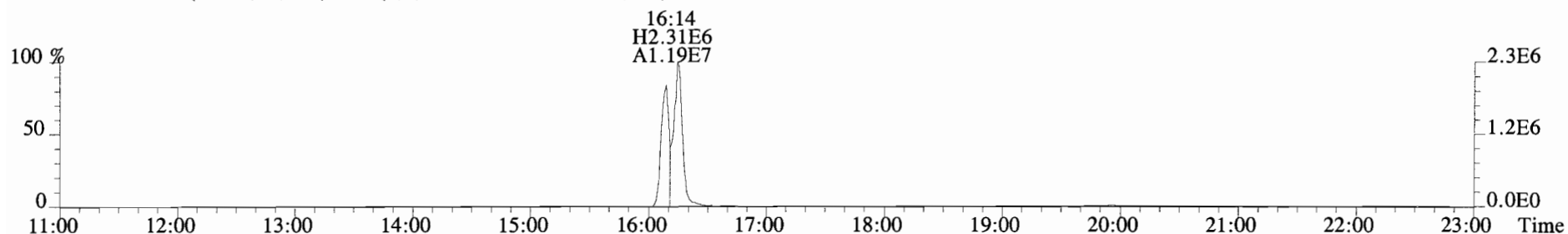
File:140918D1 #1-1684 Acq:18-SEP-2014 13:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03RE1 PS-TS-01-20140909-S C 13.37 Exp:TCDF_DB225
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



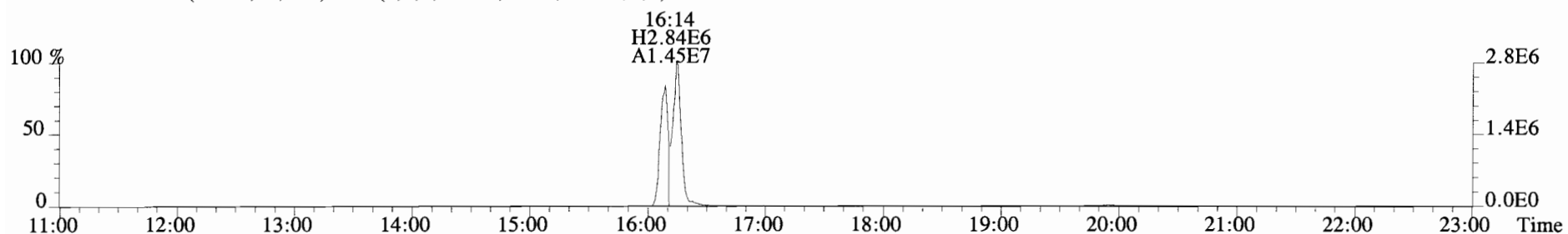
File:140918D1 #1-1684 Acq:18-SEP-2014 13:45:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1400659-03RE1 PS-TS-01-20140909-S C 13.37 Exp:TCDF_DB225
 303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



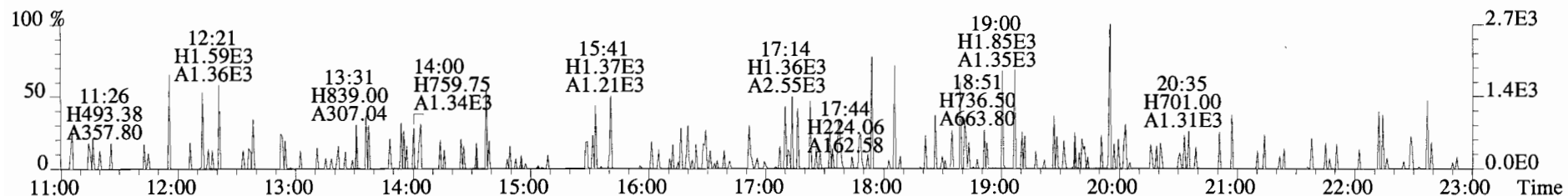
File:140918D1 #1-1684 Acq:18-SEP-2014 13:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text: Vista Analytical Laboratory VG-7 Text:1400659-03RE1 PS-TS-01-20140909-S C 13.37 Exp:TCDF_DB225
331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



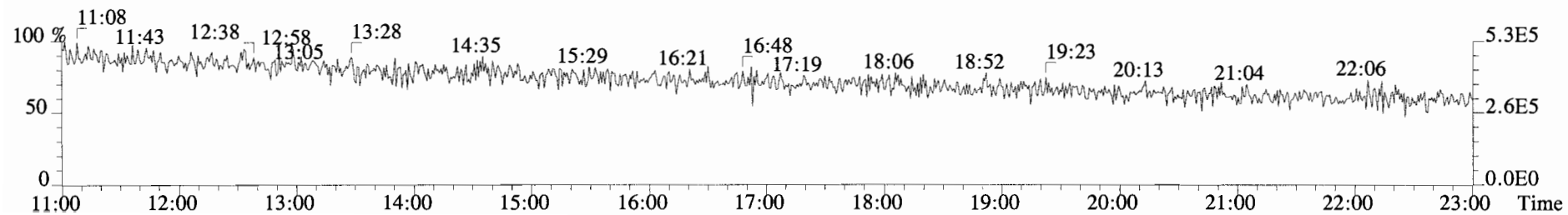
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



318.9792 S:4



CONTINUING CALIBRATION

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory

Episode No.:

CCAL ID: ST140917D1-1

Contract No.:

SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 140917D1 S#1 Analysis Date: 17-SEP-14 Time: 13:11:35

| NATIVE ANALYTES | M/Z'S FORMING RATIO (1) | ION ABUND. RATIO | QC LIMITS (2) | Pass | CONC. FOUND | CONC. RANGE (3) (ng/mL) |
|---------------------|-------------------------------|------------------------|---------------------|------|----------------|-------------------------------|
| | | | | | | |
| 2,3,7,8-TCDD | M/M+2 | 0.76 | 0.65-0.89 | y | 9.79 | 7.8 - 12.9 |
| 1,2,3,7,8-PeCDD | M/M+2 | 0.61 | 0.54-0.72 | y | 53.1 | 8.2 - 12.3 (4) 39.0 - 65.0 |
| 1,2,3,4,7,8-HxCDD | M+2/M+4 | 1.26 | 1.05-1.43 | y | 49.8 | 39.0 - 64.0 |
| 1,2,3,6,7,8-HxCDD | M+2/M+4 | 1.26 | 1.05-1.43 | y | 49.3 | 39.0 - 64.0 |
| 1,2,3,7,8,9-HxCDD | M+2/M+4 | 1.24 | 1.05-1.43 | y | 48.5 | 41.0 - 61.0 |
| 1,2,3,4,6,7,8-HpCDD | M+2/M+4 | 1.03 | 0.88-1.20 | y | 51.4 | 43.0 - 58.0 |
| OCDD | M+2/M+4 | 0.89 | 0.76-1.02 | y | 94.2 | 79.0 - 126.0 |
| 2,3,7,8-TCDF | M/M+2 | 0.78 | 0.65-0.89 | y | 9.85 | 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 | 52.3 | 41.0 - 60.0 |
| 2,3,4,7,8-PeCDF | M+2/M+4 | 1.58 | 1.32-1.78 | y | 52.4 | 41.0 - 61.0 |
| 1,2,3,4,7,8-HxCDF | M+2/M+4 | 1.27 | 1.05-1.43 | y | 47.9 | 45.0 - 56.0 |
| 1,2,3,6,7,8-HxCDF | M+2/M+4 | 1.26 | 1.05-1.43 | y | 49.4 | 44.0 - 57.0 |
| 2,3,4,6,7,8-HxCDF | M+2/M+4 | 1.26 | 1.05-1.43 | y | 48.8 | 44.0 - 57.0 |
| 1,2,3,7,8,9-HxCDF | M+2/M+4 | 1.29 | 1.05-1.43 | y | 48.1 | 45.0 - 56.0 |
| 1,2,3,4,6,7,8-HpCDF | M+2/M+4 | 1.08 | 0.88-1.20 | y | 47.0 | 45.0 - 55.0 |
| 1,2,3,4,7,8,9-HpCDF | M+2/M+4 | 1.09 | 0.88-1.20 | y | 47.1 | 43.0 - 58.0 |
| OCDF | M+2/M+4 | 0.93 | 0.76-1.02 | y | 99.3 | 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: (M)Date: 9/17/14

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 140917D1 S#1 Analysis Date: 17-SEP-14 Time: 13:11:35

| 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 | 97.5 | 82.0 - 121.0 |
| 13C-1,2,3,7,8-PeCDD | M/M+2 | 0.64 | 0.54-0.72 | y | 94.6 | 62.0 - 160.0 |
| 13C-1,2,3,4,7,8-HxCDD | M+2/M+4 | 1.25 | 1.05-1.43 | y | 99.8 | 85.0 - 117.0 |
| 13C-1,2,3,6,7,8-HxCDD | M+2/M+4 | 1.26 | 1.05-1.43 | y | 113 | 85.0 - 118.0 |
| 13C-1,2,3,7,8,9-HxCDD | M+2/M+4 | 1.24 | 1.05-1.43 | y | 117 | 85.0 - 118.0 |
| 13C-1,2,3,4,6,7,8-HpCDD | M+2/M+4 | 1.05 | 0.88-1.20 | y | 96.1 | 72.0 - 138.0 |
| 13C-OCDD | M/M+2 | 0.88 | 0.76-1.02 | y | 210 | 96.0 - 415.0 |
| 13C-2,3,7,8-TCDF | M+2/M+4 | 0.77 | 0.65-0.89 | y | 103 | 71.0 - 140.0 |
| 13C-1,2,3,7,8-PeCDF | M+2/M+4 | 1.60 | 1.32-1.78 | y | 95.4 | 76.0 - 130.0 |
| 13C-2,3,4,7,8-PeCDF | M+2/M+4 | 1.58 | 1.32-1.78 | y | 98.4 | 77.0 - 130.0 |
| 13C-1,2,3,4,7,8-HxCDF | M/M+2 | 0.51 | 0.43-0.59 | y | 105 | 76.0 - 131.0 |
| 13C-1,2,3,6,7,8-HxCDF | M/M+2 | 0.51 | 0.43-0.59 | y | 85.9 | 70.0 - 143.0 |
| 13C-2,3,4,6,7,8-HxCDF | M/M+2 | 0.52 | 0.43-0.59 | y | 96.0 | 73.0 - 137.0 |
| 13C-1,2,3,7,8,9-HxCDF | M/M+2 | 0.50 | 0.43-0.59 | y | 101 | 74.0 - 135.0 |
| 13C-1,2,3,4,6,7,8-HpCDF | M+2/M+4 | 0.43 | 0.37-0.51 | y | 103 | 78.0 - 129.0 |
| 13C-1,2,3,4,7,8,9-HpCDF | M+2/M+4 | 0.44 | 0.37-0.51 | y | 107 | 77.0 - 129.0 |
| 13C-OCDF | M+2/M+4 | 0.90 | 0.76-1.02 | y | 204 | 96.0 - 415.0 |
| CLEANUP STANDARD (3) 37C1-2,3,7,8-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: MI

Date: 9/17/14

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: 4-17-14

RT Window Data Filename: 140917D1 S#1 Analysis Date: 17-SEP-14 Time: 13:11:35

ZB-5MS IS Data Filename: 140917D1 S#1 Analysis Date: 17-SEP-14 Time: 13:11:35

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) | 23:42 | 1,3,6,8-TCDF (F) | 21:35 |
| 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) | 28:00 |
| 1,2,3,8,9-PeCDD (L) | 31:54 | 1,2,3,8,9-PeCDF (L) | 32:08 |
| 1,2,4,6,7,9-HxCDD (F) | 33:20 | 1,2,3,4,6,8-HxCDF (F) | 32:47 |
| 1,2,3,7,8,9-HxCDD (L) | 35:18 | 1,2,3,7,8,9-HxCDF (L) | 35:41 |
| 1,2,3,4,6,7,9-HpCDD (F) | 37:55 | 1,2,3,4,6,7,8-HpCDF (F) | 37:34 |
| 1,2,3,4,6,7,8-HpCDD (L) | 38:45 | 1,2,3,4,7,8,9-HpCDF (L) | 39:18 |

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

(1) To meet contract requirements, %Valley Height Between Compared
Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: MTDate: 9/18/14

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 140917D1 S#1 Analysis Date: 17-SEP-14 Time: 13:11:35

Compounds Using 13C-1234-TCDD as RT Internal Standard

| NATIVE ANALYTES | RETENTION TIME | RRT | RRT |
|-----------------|---------------------|-------|---------------|
| | REFERENCE | | 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 |

(1) Contract-required limits for
Relative Retention Times (RRT)
as specified in Table 2, Method 1613. 10/94

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 | 1.190 | 1.000-1.567 |
| 13C-2,3,7,8-TCDF | 13C-1,2,3,4-TCDD | 0.991 | 0.923-1.103 |
| 13C-1,2,3,7,8-PeCDF | 13C-1,2,3,4-TCDD | 1.146 | 1.000-1.425 |
| 13C-2,3,4,7,8-PeCDF | 13C-1,2,3,4-TCDD | 1.180 | 1.011-1.526 |
| 37Cl-2,3,7,8-TCDD | 13C-1,2,3,4-TCDD | 1.021 | 0.989-1.052 |

Analyst: ms

Date: 9/17/14

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 140917D1 S#1 Analysis Date: 17-SEP-14 Time: 13:11:35

| 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 | 1.001 | 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 | 1.001 | 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 | 1.001 | 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 |

(1) Contract-required limits for
Relative Retention Times (RRT)
as specified in Table 2, Method 1613. 10/94

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 | 1.037 | 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 | 1.092 | 1.069-1.111 |
| 13C-1,2,3,4,7,8,9-HpCDF | 13C-1,2,3,4,6,9-HxCDF | 1.142 | 1.098-1.192 |
| 13C-1,2,3,4,6,7,8-HpCDD | 13C-1,2,3,4,6,9-HxCDF | 1.126 | 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 |

Analyst: RM

Date: 9/17/14

Client ID: 1613 CS3 14F1201
Lab ID: ST140917D1-1

Filename: 140917D1 S:1 Acq:17-SEP-14 13:11:35
GC Column ID: ZB-5MS ICal: 1613VG7-4-17-14 wt/vol: 1.000

ConCal: ST140917D1-1
EndCAL: NA

| Name | Resp | RA | RRF | RT | RRT | Conc | Q | noise | Fac | DL | Name | Conc | EMPC | Qual | noise | DL |
|---------------------|-------------------------|----------|--------|-------|-------|--------|--------|-------|-----|----|---------------------|--------|--------|------|-------|----|
| 2,3,7,8-TCDD | 1.97e+06 | 0.76 y | 1.03 | 27:03 | 1.001 | 9.7878 | | * | 2.5 | * | Total Tetra-Dioxins | 56.6 | 56.8 | * | * | |
| 1,2,3,7,8-PeCDD | 8.60e+06 | 0.61 y | 0.84 | 31:32 | 1.001 | 53.097 | | * | 2.5 | * | Total Penta-Dioxins | 169 | 169 | * | * | |
| 1,2,3,4,7,8-HxCDD | 7.85e+06 | 1.26 y | 1.05 | 34:53 | 1.001 | 49.837 | | * | 2.5 | * | Total Hexa-Dioxins | 188 | 189 | * | * | |
| 1,2,3,6,7,8-HxCDD | 8.78e+06 | 1.26 y | 1.04 | 34:60 | 1.000 | 49.324 | | * | 2.5 | * | Total Hepta-Dioxins | 126 | 127 | * | * | |
| 1,2,3,7,8,9-HxCDD | 9.20e+06 | 1.24 y | 0.90 | 35:18 | 1.000 | 48.477 | | * | 2.5 | * | Total Tetra-Furans | 30.9 | 31.3 | * | * | |
| 1,2,3,4,6,7,8-HpCDD | 7.11e+06 | 1.03 y | 1.01 | 38:45 | 1.000 | 51.438 | | * | 2.5 | * | Total Penta-Furans | 212.19 | 212.63 | * | * | |
| OCDD | 1.23e+07 | 0.89 y | 1.04 | 42:06 | 1.000 | 94.163 | | * | 2.5 | * | Total Hexa-Furans | 244 | 245 | * | * | |
| | | | | | | | | | | | Total Hepta-Furans | 94.2 | 95.3 | * | * | |
| 2,3,7,8-TCDF | 2.56e+06 | 0.78 y | 0.91 | 26:16 | 1.001 | 9.8475 | | * | 2.5 | * | | | | | | |
| 1,2,3,7,8-PeCDF | 1.37e+07 | 1.58 y | 0.97 | 30:22 | 1.000 | 52.251 | | * | 2.5 | * | | | | | | |
| 2,3,4,7,8-PeCDF | 1.40e+07 | 1.58 y | 0.94 | 31:15 | 1.000 | 52.426 | | * | 2.5 | * | | | | | | |
| 1,2,3,4,7,8-HxCDF | 1.27e+07 | 1.27 y | 1.32 | 33:59 | 1.000 | 47.901 | | * | 2.5 | * | | | | | | |
| 1,2,3,6,7,8-HxCDF | 1.24e+07 | 1.26 y | 1.18 | 34:07 | 1.000 | 49.406 | | * | 2.5 | * | | | | | | |
| 2,3,4,6,7,8-HxCDF | 1.21e+07 | 1.26 y | 1.23 | 34:43 | 1.001 | 48.764 | | * | 2.5 | * | | | | | | |
| 1,2,3,7,8,9-HxCDF | 9.89e+06 | 1.29 y | 1.13 | 35:41 | 1.001 | 48.124 | | * | 2.5 | * | | | | | | |
| 1,2,3,4,6,7,8-HpCDF | 1.09e+07 | 1.08 y | 1.57 | 37:34 | 1.001 | 46.969 | | * | 2.5 | * | | | | | | |
| 1,2,3,4,7,8,9-HpCDF | 9.89e+06 | 1.09 y | 1.50 | 39:18 | 1.000 | 47.108 | | * | 2.5 | * | | | | | | |
| OCDF | 1.64e+07 | 0.93 y | 1.05 | 42:20 | 1.000 | 99.276 | | * | 2.5 | * | | | | | | |
| IS | 13C-2,3,7,8-TCDD | 1.95e+07 | 0.79 y | 1.06 | 27:02 | 1.021 | 97.486 | | | | Rec | Qual | | | | |
| IS | 13C-1,2,3,7,8-PeCDD | 1.93e+07 | 0.64 y | 1.08 | 31:31 | 1.190 | 94.599 | | | | 97.5 | 94.6 | | | | |
| IS | 13C-1,2,3,4,7,8-HxCDD | 1.50e+07 | 1.25 y | 0.74 | 34:52 | 1.014 | 99.761 | | | | 99.8 | 113 | | | | |
| IS | 13C-1,2,3,6,7,8-HxCDD | 1.72e+07 | 1.26 y | 0.75 | 34:59 | 1.017 | 112.87 | | | | 113 | 117 | | | | |
| IS | 13C-1,2,3,7,8,9-HxCDD | 2.12e+07 | 1.24 y | 0.89 | 35:17 | 1.026 | 117.32 | | | | 117 | 105 | | | | |
| IS | 13C-1,2,3,4,6,7,8-HpCDD | 1.37e+07 | 1.05 y | 0.70 | 38:44 | 1.126 | 96.076 | | | | 96.1 | 105 | | | | |
| IS | 13C-OCDD | 2.51e+07 | 0.88 y | 0.59 | 42:05 | 1.224 | 209.93 | | | | 105 | 103 | | | | |
| IS | 13C-2,3,7,8-TCDF | 2.86e+07 | 0.77 y | 0.97 | 26:15 | 0.991 | 103.10 | | | | 103 | 95.4 | | | | |
| IS | 13C-1,2,3,7,8-PeCDF | 2.71e+07 | 1.60 y | 0.99 | 30:21 | 1.146 | 95.439 | | | | 95.4 | 98.4 | | | | |
| IS | 13C-2,3,4,7,8-PeCDF | 2.84e+07 | 1.58 y | 1.01 | 31:14 | 1.180 | 98.449 | | | | 98.4 | 105 | | | | |
| IS | 13C-1,2,3,4,7,8-HxCDF | 2.01e+07 | 0.51 y | 0.94 | 33:58 | 0.988 | 105.29 | | | | 105 | 85.9 | | | | |
| IS | 13C-1,2,3,6,7,8-HxCDF | 2.14e+07 | 0.51 y | 1.23 | 34:06 | 0.991 | 85.908 | | | | 85.9 | 96.0 | | | | |
| IS | 13C-2,3,4,6,7,8-HxCDF | 2.01e+07 | 0.52 y | 1.03 | 34:42 | 1.009 | 95.998 | | | | 96.0 | 101 | | | | |
| IS | 13C-1,2,3,7,8,9-HxCDF | 1.82e+07 | 0.50 y | 0.89 | 35:40 | 1.037 | 101.39 | | | | 101 | 103 | | | | |
| IS | 13C-1,2,3,4,6,7,8-HpCDF | 1.48e+07 | 0.43 y | 0.71 | 37:33 | 1.092 | 103.33 | | | | 103 | 107 | | | | |
| IS | 13C-1,2,3,4,7,8,9-HpCDF | 1.40e+07 | 0.44 y | 0.64 | 39:17 | 1.142 | 107.22 | | | | 107 | 102 | | | | |
| IS | 13C-OCDF | 3.13e+07 | 0.90 y | 0.76 | 42:19 | 1.230 | 203.93 | | | | 102 | | | | | |
| C/Up | 37C1-2,3,7,8-TCDD | 2.05e+06 | | 1.04 | 27:03 | 1.021 | 10.437 | | | | 26.1 | | | | | |
| RS/RT | 13C-1,2,3,4-TCDD | 1.88e+07 | 0.80 y | 1.00 | 26:29 | * | 100.00 | | | | | | | | | |
| RS | 13C-1,2,3,4-TCDF | 2.86e+07 | 0.75 y | 1.00 | 25:04 | * | 100.00 | | | | | | | | | |
| RS/RT | 13C-1,2,3,4,6,9-HxCDF | 2.03e+07 | 0.52 y | 1.00 | 34:24 | * | 100.00 | | | | | | | | | |

Integrations Reviewed
by Analyst: ms by Analyst: g/z
Date: 9/17/14 Date: 9/18/14

Vista Analytical Laboratory - Injection Log Run file: 140917D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

| Data file | S# | Sample ID | Analyst | Acq date | Acq time | CCal | ECal |
|-----------|----|---------------|---------|-----------|----------|--------------|------|
| 140917D1 | 1 | ST140917D1-1 | MAS | 17-SEP-14 | 13:11:35 | ST140917D1-1 | NA |
| 140917D1 | 2 | SOLVENT BLANK | MAS | 17-SEP-14 | 13:59:55 | ST140917D1-1 | NA |
| 140917D1 | 3 | SOLVENT BLANK | MAS | 17-SEP-14 | 14:48:18 | ST140917D1-1 | NA |
| 140917D1 | 4 | SOLVENT BLANK | MAS | 17-SEP-14 | 15:36:39 | ST140917D1-1 | NA |
| 140917D1 | 5 | B4I0053-BS1 | MAS | 17-SEP-14 | 16:25:00 | ST140917D1-1 | NA |
| 140917D1 | 6 | B4I0062-BS1 | MAS | 17-SEP-14 | 17:13:22 | ST140917D1-1 | NA |
| 140917D1 | 7 | SOLVENT BLANK | MAS | 17-SEP-14 | 18:01:43 | ST140917D1-1 | NA |
| 140917D1 | 8 | B4I0053-BLK1 | MAS | 17-SEP-14 | 18:50:05 | ST140917D1-1 | NA |
| 140917D1 | 9 | B4I0062-BLK1 | MAS | 17-SEP-14 | 19:38:26 | ST140917D1-1 | NA |
| 140917D1 | 10 | 1400659-03 | MAS | 17-SEP-14 | 20:26:43 | ST140917D1-1 | NA |
| 140917D1 | 11 | 1400668-03 | MAS | 17-SEP-14 | 21:15:00 | ST140917D1-1 | NA |
| 140917D1 | 12 | 1400667-01 | MAS | 17-SEP-14 | 22:03:21 | ST140917D1-1 | NA |
| 140917D1 | 13 | 1400665-01 | MAS | 17-SEP-14 | 22:51:37 | ST140917D1-1 | NA |
| 140917D1 | 14 | 1400665-02 | MAS | 17-SEP-14 | 23:39:58 | ST140917D1-1 | NA |
| 140917D1 | 15 | 1400665-03 | MAS | 18-SEP-14 | 00:28:17 | ST140917D1-1 | NA |
| 140917D1 | 16 | SOLVENT BLANK | MAS | 18-SEP-14 | 01:16:38 | ST140917D1-1 | NA |
| 140917D1 | 17 | SOLVENT BLANK | MAS | 18-SEP-14 | 02:04:58 | ST140917D1-1 | NA |

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST140917D1-1

End Calibration ID: NA

| | <u>Beg.</u> | <u>End</u> |
|---|---------------------------------------|-----------------------------|
| Ion abundance within QC limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> NA |
| Concentration within range? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| First and last eluters present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Retention Times within criteria? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Verification Std. named correctly? (ST-Year-Month-Day-VG ID) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Forms signed and dated? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Correct ICAL referenced? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Run Log: | | |
| -Data file matches Conc Cal ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| -Correct instrument listed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| -Samples within 12-hour clock? | <input checked="" type="checkbox"/> y | <input type="checkbox"/> n |

| | <u>Beg.</u> | <u>End</u> |
|--|-------------------------------------|-------------------------------------|
| Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| TCDD/TCDF valleys < 25%? | <input checked="" type="checkbox"/> | <input type="checkbox"/> NA |
| Peaks integrated correctly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Manual integrations included? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8280 CS1 Ending Standard | | |
| -Ratios within limits | | <input type="checkbox"/> |
| -S/N > 2.5:1 | | <input type="checkbox"/> |
| -CS1 within 12-hour clock | | <input checked="" type="checkbox"/> |

Comments:

Reviewed by: [Signature] 9/18/14
Initials & Date

* Ending standard criteria applicable to 8290 only.

Vista Analytical Laboratory
El Dorado Hills, CA 95762

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory

Episode No.:

CCAL ID: ST140922D1-1

Contract No.:

SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 140922D1 S#1 Analysis Date: 22-SEP-14 Time: 13:33:10

| NATIVE ANALYTES | M/Z'S FORMING RATIO (1) | ION ABUND. RATIO | QC LIMITS (2) | Pass | CONC. FOUND | CONC. RANGE (3) (ng/mL) |
|---------------------|-------------------------------|------------------------|---------------------|------|----------------|-------------------------------|
| 2,3,7,8-TCDD | M/M+2 | 0.75 | 0.65-0.89 | y | 9.85 | 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 | 49.7 | 39.0 - 65.0 |
| 1,2,3,4,7,8-HxCDD | M+2/M+4 | 1.25 | 1.05-1.43 | y | 51.3 | 39.0 - 64.0 |
| 1,2,3,6,7,8-HxCDD | M+2/M+4 | 1.28 | 1.05-1.43 | y | 52.3 | 39.0 - 64.0 |
| 1,2,3,7,8,9-HxCDD | M+2/M+4 | 1.25 | 1.05-1.43 | y | 51.9 | 41.0 - 61.0 |
| 1,2,3,4,6,7,8-HpCDD | M+2/M+4 | 1.05 | 0.88-1.20 | y | 51.3 | 43.0 - 58.0 |
| OCDD | M+2/M+4 | 0.87 | 0.76-1.02 | y | 97.4 | 79.0 - 126.0 |
| 2,3,7,8-TCDF | M/M+2 | 0.76 | 0.65-0.89 | y | 10.2 | 8.4 - 12.0 8.6 - 11.6 (4) |
| 1,2,3,7,8-PeCDF | M+2/M+4 | 1.57 | 1.32-1.78 | y | 51.7 | 41.0 - 60.0 |
| 2,3,4,7,8-PeCDF | M+2/M+4 | 1.59 | 1.32-1.78 | y | 52.4 | 41.0 - 61.0 |
| 1,2,3,4,7,8-HxCDF | M+2/M+4 | 1.26 | 1.05-1.43 | y | 47.8 | 45.0 - 56.0 |
| 1,2,3,6,7,8-HxCDF | M+2/M+4 | 1.30 | 1.05-1.43 | y | 48.4 | 44.0 - 57.0 |
| 2,3,4,6,7,8-HxCDF | M+2/M+4 | 1.28 | 1.05-1.43 | y | 48.6 | 44.0 - 57.0 |
| 1,2,3,7,8,9-HxCDF | M+2/M+4 | 1.28 | 1.05-1.43 | y | 47.6 | 45.0 - 56.0 |
| 1,2,3,4,6,7,8-HpCDF | M+2/M+4 | 1.08 | 0.88-1.20 | y | 46.0 | 45.0 - 55.0 |
| 1,2,3,4,7,8,9-HpCDF | M+2/M+4 | 1.06 | 0.88-1.20 | y | 44.8 | 43.0 - 58.0 |
| OCDF | M+2/M+4 | 0.91 | 0.76-1.02 | y | 97.3 | 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: MSDate: 9/22/14

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 140922D1 S#1 Analysis Date: 22-SEP-14 Time: 13:33:10

| LABELLED 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 | 0.80 | 0.65-0.89 | y | 96.5 | 82.0 - 121.0 |
| 13C-1,2,3,7,8-PeCDD | M/M+2 | 0.63 | 0.54-0.72 | y | 87.0 | 62.0 - 160.0 |
| 13C-1,2,3,4,7,8-HxCDD | M+2/M+4 | 1.26 | 1.05-1.43 | y | 96.4 | 85.0 - 117.0 |
| 13C-1,2,3,6,7,8-HxCDD | M+2/M+4 | 1.24 | 1.05-1.43 | y | 97.9 | 85.0 - 118.0 |
| 13C-1,2,3,7,8,9-HxCDD | M+2/M+4 | 1.20 | 1.05-1.43 | y | 94.0 | 85.0 - 118.0 |
| 13C-1,2,3,4,6,7,8-HpCDD | M+2/M+4 | 1.05 | 0.88-1.20 | y | 91.4 | 72.0 - 138.0 |
| 13C-OCDD | M/M+2 | 0.91 | 0.76-1.02 | y | 182 | 96.0 - 415.0 |
| 13C-2,3,7,8-TCDF | M+2/M+4 | 0.78 | 0.65-0.89 | y | 103 | 71.0 - 140.0 |
| 13C-1,2,3,7,8-PeCDF | M+2/M+4 | 1.57 | 1.32-1.78 | y | 93.6 | 76.0 - 130.0 |
| 13C-2,3,4,7,8-PeCDF | M+2/M+4 | 1.59 | 1.32-1.78 | y | 89.2 | 77.0 - 130.0 |
| 13C-1,2,3,4,7,8-HxCDF | M/M+2 | 0.51 | 0.43-0.59 | y | 103 | 76.0 - 131.0 |
| 13C-1,2,3,6,7,8-HxCDF | M/M+2 | 0.51 | 0.43-0.59 | y | 93.0 | 70.0 - 143.0 |
| 13C-2,3,4,6,7,8-HxCDF | M/M+2 | 0.52 | 0.43-0.59 | y | 96.2 | 73.0 - 137.0 |
| 13C-1,2,3,7,8,9-HxCDF | M/M+2 | 0.50 | 0.43-0.59 | y | 99.1 | 74.0 - 135.0 |
| 13C-1,2,3,4,6,7,8-HpCDF | M+2/M+4 | 0.44 | 0.37-0.51 | y | 104 | 78.0 - 129.0 |
| 13C-1,2,3,4,7,8,9-HpCDF | M+2/M+4 | 0.44 | 0.37-0.51 | y | 96.5 | 77.0 - 129.0 |
| 13C-OCDF | M+2/M+4 | 0.92 | 0.76-1.02 | y | 178 | 96.0 - 415.0 |
| CLEANUP STANDARD (3) 37Cl-2,3,7,8-TCDD | | | | | 10.5 | 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: MY

Date: 9/22/14

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: 4-17-14

RT Window Data Filename: 140922D1 S#1 Analysis Date: 22-SEP-14 Time: 13:33:10

ZB-5MS IS Data Filename: 140922D1 S#1 Analysis Date: 22-SEP-14 Time: 13:33:10

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) | 23:48 | 1,3,6,8-TCDF (F) | 21:41 |
| 1,2,8,9-TCDD (L) | 27:59 | 1,2,8,9-TCDF (L) | 28:08 |
| 1,2,4,7,9-PeCDD (F) | 29:34 | 1,3,4,6,8-PeCDF (F) | 28:05 |
| 1,2,3,8,9-PeCDD (L) | 31:58 | 1,2,3,8,9-PeCDF (L) | 32:12 |
| 1,2,4,6,7,9-HxCDD (F) | 33:23 | 1,2,3,4,6,8-HxCDF (F) | 32:50 |
| 1,2,3,7,8,9-HxCDD (L) | 35:23 | 1,2,3,7,8,9-HxCDF (L) | 35:46 |
| 1,2,3,4,6,7,9-HpCDD (F) | 37:59 | 1,2,3,4,6,7,8-HpCDF (F) | 37:38 |
| 1,2,3,4,6,7,8-HpCDD (L) | 38:49 | 1,2,3,4,7,8,9-HpCDF (L) | 39:22 |

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: MSDate: 9/22/14

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 140922D1 S#1 Analysis Date: 22-SEP-14 Time: 13:33:10

Compounds Using 13C-1234-TCDD as RT Internal Standard

| NATIVE ANALYTES | RETENTION TIME | RRT | RRT |
|-----------------|---------------------|-------|---------------|
| | REFERENCE | | 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 |

(1) Contract-required limits for
Relative Retention Times (RRT)
as specified in Table 2, Method 1613. 10/94

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 | 1.190 | 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 | 1.146 | 1.000-1.425 |
| 13C-2,3,4,7,8-PeCDF | 13C-1,2,3,4-TCDD | 1.179 | 1.011-1.526 |
| 37Cl-2,3,7,8-TCDD | 13C-1,2,3,4-TCDD | 1.022 | 0.989-1.052 |

Analyst: √m)

Date: 9/22/14

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 140922D1 S#1 Analysis Date: 22-SEP-14 Time: 13:33:10

| NATIVE ANALYTES | RETENTION TIME | | RRT | QC LIMITS (1) |
|---------------------|-------------------------|-------|---------------|---|
| | REFERENCE | 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) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613. 10/94 |
| 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 | 1.001 | 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 | 1.001 | 0.998-1.004 | |
| 1,2,3,7,8,9-HxCDD | 13C-1,2,3,7,8,9-HxCDD | 1.001 | 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 | 1.037 | 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 | 1.092 | 1.069-1.111 |
| 13C-1,2,3,4,7,8,9-HpCDF | 13C-1,2,3,4,6,9-HxCDF | 1.142 | 1.098-1.192 |
| 13C-1,2,3,4,6,7,8-HpCDD | 13C-1,2,3,4,6,9-HxCDF | 1.126 | 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 |

Analyst: mi

Date: 9/22/14

Client ID: 1613 CS3 14F1201
Lab ID: ST140922D1-1

Filename: 140922D1 S:1 Acq:22-SEP-14 13:33:10
GC Column ID: ZB-5MS ICal: 1613VG7-4-17-14 wt/vol: 1.000

ConCal: ST140922D1-1
EndCAL: NA

Page 1 of 1

| Name | Resp | RA | RRF | RT | RRT | Conc | Q | noise | Fac | DL | Name | Conc | EMPC | Qual | noise | DL |
|---------------------|-------------------------|----------|--------|-------|-------|--------|--------|-------|-----|----|----------------------|--------|--------|------|-------|----------------------|
| 2,3,7,8-TCDD | 1.91e+06 | 0.75 y | 1.03 | 27:09 | 1.001 | 9.8472 | * | 2.5 | * | * | Total Tetra-Dioxins | 56.9 | 57.1 | * | * | |
| 1,2,3,7,8-PeCDD | 7.22e+06 | 0.61 y | 0.84 | 31:37 | 1.001 | 49.741 | * | 2.5 | * | * | Total Penta-Dioxins | 165 | 166 | * | * | |
| 1,2,3,4,7,8-HxCDD | 6.57e+06 | 1.25 y | 1.05 | 34:57 | 1.000 | 51.301 | * | 2.5 | * | * | Total Hexa-Dioxins | 205 | 205 | * | * | |
| 1,2,3,6,7,8-HxCDD | 6.78e+06 | 1.28 y | 1.04 | 35:04 | 1.001 | 52.257 | * | 2.5 | * | * | Total Hepta-Dioxins | 128 | 129 | * | * | |
| 1,2,3,7,8,9-HxCDD | 6.63e+06 | 1.25 y | 0.90 | 35:23 | 1.001 | 51.851 | * | 2.5 | * | * | Total Tetra-Furans | 31.6 | 31.8 | * | * | |
| 1,2,3,4,6,7,8-HpCDD | 5.67e+06 | 1.05 y | 1.01 | 38:49 | 1.000 | 51.295 | * | 2.5 | * | * | Total Penta-Furans | 208.45 | 209.64 | * | * | |
| OCDD | 9.26e+06 | 0.87 y | 1.04 | 42:10 | 1.000 | 97.359 | * | 2.5 | * | * | Total Hexa-Furans | 242 | 242 | * | * | |
| | | | | | | | | | | | Total Hepta-Furans | 90.8 | 92.0 | * | * | |
| 2,3,7,8-TCDF | 2.41e+06 | 0.76 y | 0.91 | 26:22 | 1.001 | 10.181 | * | 2.5 | * | * | | | | | | |
| 1,2,3,7,8-PeCDF | 1.21e+07 | 1.57 y | 0.97 | 30:27 | 1.000 | 51.730 | * | 2.5 | * | * | | | | | | |
| 2,3,4,7,8-PeCDF | 1.15e+07 | 1.59 y | 0.94 | 31:19 | 1.000 | 52.375 | * | 2.5 | * | * | | | | | | |
| 1,2,3,4,7,8-HxCDF | 1.04e+07 | 1.26 y | 1.32 | 34:03 | 1.000 | 47.844 | * | 2.5 | * | * | | | | | | |
| 1,2,3,6,7,8-HxCDF | 1.11e+07 | 1.30 y | 1.18 | 34:11 | 1.000 | 48.428 | * | 2.5 | * | * | | | | | | |
| 2,3,4,6,7,8-HxCDF | 1.01e+07 | 1.28 y | 1.23 | 34:47 | 1.000 | 48.568 | * | 2.5 | * | * | | | | | | |
| 1,2,3,7,8,9-HxCDF | 8.04e+06 | 1.28 y | 1.13 | 35:46 | 1.001 | 47.600 | * | 2.5 | * | * | | | | | | |
| 1,2,3,4,6,7,8-HpCDF | 9.08e+06 | 1.08 y | 1.57 | 37:38 | 1.000 | 45.993 | * | 2.5 | * | * | | | | | | |
| 1,2,3,4,7,8,9-HpCDF | 7.11e+06 | 1.06 y | 1.50 | 39:22 | 1.000 | 44.794 | * | 2.5 | * | * | | | | | | |
| OCDF | 1.18e+07 | 0.91 y | 1.05 | 42:25 | 1.000 | 97.316 | * | 2.5 | * | * | | | | | | |
| | | | | | | | | | | | Rec | Qual | | | | |
| IS | 13C-2,3,7,8-TCDD | 1.88e+07 | 0.80 y | 1.06 | 27:07 | 1.021 | 96.548 | | | | 96.5 | | | | | |
| IS | 13C-1,2,3,7,8-PeCDD | 1.73e+07 | 0.63 y | 1.08 | 31:36 | 1.190 | 86.979 | | | | 87.0 | | | | | |
| IS | 13C-1,2,3,4,7,8-HxCDD | 1.22e+07 | 1.26 y | 0.74 | 34:57 | 1.014 | 96.412 | | | | 96.4 | | | | | |
| IS | 13C-1,2,3,6,7,8-HxCDD | 1.25e+07 | 1.24 y | 0.75 | 35:03 | 1.017 | 97.874 | | | | 97.9 | | | | | |
| IS | 13C-1,2,3,7,8,9-HxCDD | 1.43e+07 | 1.20 y | 0.89 | 35:21 | 1.026 | 94.035 | | | | 94.0 | | | | | |
| IS | 13C-1,2,3,4,6,7,8-HpCDD | 1.09e+07 | 1.05 y | 0.70 | 38:48 | 1.126 | 91.382 | | | | 91.4 | | | | | |
| IS | 13C-OCDD | 1.83e+07 | 0.91 y | 0.59 | 42:10 | 1.224 | 181.78 | | | | 90.9 | | | | | |
| IS | 13C-2,3,7,8-TCDF | 2.59e+07 | 0.78 y | 0.97 | 26:21 | 0.992 | 103.46 | | | | 103 | | | | | |
| IS | 13C-1,2,3,7,8-PeCDF | 2.40e+07 | 1.57 y | 0.99 | 30:26 | 1.146 | 93.580 | | | | 93.6 | | | | | |
| IS | 13C-2,3,4,7,8-PeCDF | 2.33e+07 | 1.59 y | 1.01 | 31:19 | 1.179 | 89.217 | | | | 89.2 | | | | | |
| IS | 13C-1,2,3,4,7,8-HxCDF | 1.66e+07 | 0.51 y | 0.94 | 34:02 | 0.988 | 103.27 | | | | 103 | | | | | |
| IS | 13C-1,2,3,6,7,8-HxCDF | 1.95e+07 | 0.51 y | 1.23 | 34:10 | 0.991 | 93.008 | | | | 93.0 | | | | | |
| IS | 13C-2,3,4,6,7,8-HxCDF | 1.69e+07 | 0.52 y | 1.03 | 34:46 | 1.009 | 96.169 | | | | 96.2 | | | | | |
| IS | 13C-1,2,3,7,8,9-HxCDF | 1.50e+07 | 0.50 y | 0.89 | 35:45 | 1.037 | 99.092 | | | | 99.1 | | | | | |
| IS | 13C-1,2,3,4,6,7,8-HpCDF | 1.26e+07 | 0.44 y | 0.71 | 37:37 | 1.092 | 104.29 | | | | 104 | | | | | |
| IS | 13C-1,2,3,4,7,8,9-HpCDF | 1.06e+07 | 0.44 y | 0.64 | 39:21 | 1.142 | 96.522 | | | | 96.5 | | | | | |
| IS | 13C-OCDF | 2.30e+07 | 0.92 y | 0.76 | 42:24 | 1.230 | 177.66 | | | | 88.8 | | | | | |
| C/Up | 37C1-2,3,7,8-TCDD | 2.00e+06 | | 1.04 | 27:09 | 1.022 | 10.471 | | | | 26.2 | | | | | |
| | | | | | | | | | | | Integrations | | | | | |
| | | | | | | | | | | | by | | | | | |
| RS/RT | 13C-1,2,3,4-TCDD | 1.83e+07 | 0.81 y | 1.00 | 26:34 | * | 100.00 | | | | Analyst: <u>MAJ</u> | | | | | Reviewed |
| RS | 13C-1,2,3,4-TCDF | 2.59e+07 | 0.75 y | 1.00 | 25:09 | * | 100.00 | | | | | | | | | by |
| RS/RT | 13C-1,2,3,4,6,9-HxCDF | 1.70e+07 | 0.52 y | 1.00 | 34:28 | * | 100.00 | | | | | | | | | Analyst: <u>MP</u> |
| | | | | | | | | | | | Date: <u>9/22/14</u> | | | | | Date: <u>9/22/14</u> |

Vista Analytical Laboratory - Injection Log Run file: 140922D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

| Data file | S# | Sample ID | Analyst | Acq date | Acq time | CCal | ECal |
|-----------|----|---------------|---------|-----------|----------|--------------|------|
| 140922D1 | 1 | ST140922D1-1 | MAS | 22-SEP-14 | 13:33:10 | ST140922D1-1 | NA |
| 140922D1 | 2 | B4I0065-BS1 | MAS | 22-SEP-14 | 14:21:30 | ST140922D1-1 | NA |
| 140922D1 | 3 | B4I0066-BS1 | MAS | 22-SEP-14 | 15:09:53 | ST140922D1-1 | NA |
| 140922D1 | 4 | SOLVENT BLANK | MAS | 22-SEP-14 | 15:58:14 | ST140922D1-1 | NA |
| 140922D1 | 5 | B4I0065-BLK1 | MAS | 22-SEP-14 | 16:46:36 | ST140922D1-1 | NA |
| 140922D1 | 6 | B4I0066-BLK1 | MAS | 22-SEP-14 | 17:34:58 | ST140922D1-1 | NA |
| 140922D1 | 7 | 1400664-01 | MAS | 22-SEP-14 | 18:23:20 | ST140922D1-1 | NA |
| 140922D1 | 8 | 1400668-01 | MAS | 22-SEP-14 | 19:11:42 | ST140922D1-1 | NA |
| 140922D1 | 9 | 1400668-02 | MAS | 22-SEP-14 | 20:00:03 | ST140922D1-1 | NA |
| 140922D1 | 10 | 1400665-04 | MAS | 22-SEP-14 | 20:48:24 | ST140922D1-1 | NA |
| 140922D1 | 11 | 1400659-01 | MAS | 22-SEP-14 | 21:36:44 | ST140922D1-1 | NA |
| 140922D1 | 12 | 1400659-02 | MAS | 22-SEP-14 | 22:25:04 | ST140922D1-1 | NA |
| 140922D1 | 13 | 1400666-01 | MAS | 22-SEP-14 | 23:13:25 | ST140922D1-1 | NA |
| 140922D1 | 14 | SOLVENT BLANK | MAS | 23-SEP-14 | 00:01:46 | ST140922D1-1 | NA |

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST14092201-1

End Calibration ID: NA

| | <u>Beg.</u> | <u>End</u> |
|---|-------------------------------------|-------------------------------------|
| Ion abundance within QC limits? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Concentration within range? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| First and last eluters present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Retention Times within criteria? | <input type="checkbox"/> | <input type="checkbox"/> |
| Verification Std. named correctly? (ST-Year-Month-Day-VG ID) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Forms signed and dated? | <input type="checkbox"/> | <input type="checkbox"/> |
| Correct ICAL referenced? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Run Log: | | |
| -Data file matches Conc Cal ID? | <input type="checkbox"/> | <input type="checkbox"/> |
| -Correct instrument listed? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| -Samples within 12-hour clock? | <u>y</u> | <u>n</u> |

| | <u>Beg.</u> | <u>End</u> |
|--|-------------------------------------|-------------------------------------|
| Mass resolution > <u>10,000</u> ? ▪ Method 1614 > 5,000; CARB 429 > 8,000 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <u>TCDD/TCDF</u> valleys < 25%? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Peaks integrated correctly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Manual integrations included? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8280 CS1 Ending Standard | | |
| -Ratios within limits | | <input type="checkbox"/> |
| -S/N > 2.5:1 | | <input type="checkbox"/> |
| -CS1 within 12-hour clock | | <input checked="" type="checkbox"/> |

Comments:

Reviewed by: [Signature] 9/23/14
Initials & Date

* Ending standard criteria applicable to 8290 only.

FORM 4A/4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory

CCAL ID: ST140918D1-1

Initial Calibration Date: 3-10-14

Instrument ID: VG-7

GC Column ID: DB-225

VER Data Filename: 140918D1 S#2 Analysis Date: 18-SEP-14 Time: 12:41:41

| ANALYTES | M/Z'S | ION | QC | CONC. | CONC. RANGE | CONC. RANGE |
|------------------|-----------|--------|-----------|-------|--------------------------------------|--------------|
| | FORMING | ABUND. | LIMITS | | 1613 | 8290 |
| | RATIO (1) | RATIO | (2) | FOUND | (ng/mL) | (ng/mL) |
| 2,3,7,8-TCDF | M/M+2 | 0.77 | 0.65-0.89 | 8.5 | 8.4 - 12.0 (3) 8.6 - 11.6 (4) | 8.0 - 12.0 |
| 13C-2,3,7,8-TCDF | M/M+2 | 0.79 | 0.65-0.89 | 108.4 | 71.0 - 140.0 (3) 76.0 - 131.0 (4) | 70.0 - 130.0 |

* Tetra-oxa only
ms 9/18/14

- (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: MJDate: 9/18/14

Client ID: 1613 CS3 14F1201
Lab ID: ST140918D1-1

Filename: 140918D1 S:2 Acq:18-SEP-14 12:41:41
GC Column ID: DB-225 ICal: 1613TCDFVG7-3-10-14 wt/vol: 1.000

ConCal: ST140918D1-1
EndCAL: NA

| Name | Resp | RA | RT | RRF | Conc | Rec |
|------------------|----------|--------|-------|------|-------|-------|
| 13C-1,2,3,4-TCDF | 3.43e+07 | 0.79 y | 15:26 | 1.00 | 100.0 | - |
| 13C-2,3,7,8-TCDF | 3.44e+07 | 0.79 y | 17:45 | 0.93 | 108.4 | 108.4 |
| 2,3,7,8-TCDF | 3.39e+06 | 0.77 y | 17:47 | 1.16 | 8.501 | |

Integrations

by
Analyst: ms

Date: 9/14/14

Reviewed

by
Analyst: _____

Date: _____

Vista Analytical Laboratory - Injection Log Run file: 140918D1 Instrument ID: VG-7 GC Column ID: DB-225

| Data file | S# | Sample ID | Analyst | Acq date | Acq time | CCal | ECal |
|-----------|----|---------------|---------|-----------|----------|--------------|------|
| 140918D1 | 1 | CP140918D1-1 | MAS | 18-SEP-14 | 12:09:36 | ST140918D1-1 | NA |
| 140918D1 | 2 | ST140918D1-1 | MAS | 18-SEP-14 | 12:41:41 | ST140918D1-1 | NA |
| 140918D1 | 3 | SOLVENT BLANK | MAS | 18-SEP-14 | 13:13:47 | ST140918D1-1 | NA |
| 140918D1 | 4 | 1400659-03RE1 | MAS | 18-SEP-14 | 13:45:53 | ST140918D1-1 | NA |
| 140918D1 | 5 | 1400668-03RE1 | MAS | 18-SEP-14 | 14:17:59 | ST140918D1-1 | NA |
| 140918D1 | 6 | 1400665-01RE1 | MAS | 18-SEP-14 | 14:50:04 | ST140918D1-1 | NA |
| 140918D1 | 7 | 1400665-02RE1 | MAS | 18-SEP-14 | 15:22:10 | ST140918D1-1 | NA |
| 140918D1 | 8 | 1400665-03RE1 | MAS | 18-SEP-14 | 15:54:16 | ST140918D1-1 | NA |
| 140918D1 | 9 | 1400661-01RE2 | MAS | 18-SEP-14 | 16:26:21 | ST140918D1-1 | NA |

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST14091801-1

End Calibration ID: NA

| | <u>Beg.</u> | <u>End</u> |
|---|-------------------------------------|-------------------------------------|
| Ion abundance within QC limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> NA |
| Concentration within range? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| First and last eluters present? | <input type="checkbox"/> NA | <input type="checkbox"/> |
| Retention Times within criteria? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Verification Std. named correctly? (ST-Year-Month-Day-VG ID) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Forms signed and dated? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Correct ICAL referenced? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Run Log: | | |
| -Data file matches Conc Cal ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| -Correct instrument listed? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| -Samples within 12-hour clock? | <input type="checkbox"/> y | <input type="checkbox"/> n |

| | <u>Beg.</u> | <u>End</u> |
|--|-------------------------------------|-------------------------------------|
| Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| TCDD/TCDF valleys < 25%? | <input checked="" type="checkbox"/> | <input type="checkbox"/> NA |
| Peaks integrated correctly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Manual integrations included? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8280 CS1 Ending Standard | | |
| -Ratios within limits | | <input type="checkbox"/> |
| -S/N > 2.5:1 | | <input type="checkbox"/> |
| -CS1 within 12-hour clock | | <input checked="" type="checkbox"/> |

Comments: * Tetra → Octa only m 9/19/14

Reviewed by: 9/19/14
Initials & Date

* Ending standard criteria applicable to 8290 only.

Vista Analytical Laboratory
 El Dorado Hills, CA 95762

Lab Name: Vista Analytical Laboratory Lab ID: ST140919E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICAL ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 140919E1 S#1 Analysis Date: 19-SEP-14 Time: 09:33:01

| ANALYTES | ION | QC | PASS | CONC. | RANGE | ANALYTES | ION | QC | PASS | CONC. | RANGE |
|--------------|--------|-----------|------|---------|-----------|-----------------|--------|-----------|------|---------|-----------|
| | ABUND. | LIMITS | | FOUND | | | ABUND. | LIMITS | | FOUND | |
| | RATIO | | | (ng/mL) | | RATIO | | | | (ng/mL) | |
| PCB-1 | 2.97 | 2.66-3.60 | y | 50.4 | 37.5-62.5 | PCB-52/69 | 0.77 | 0.65-0.89 | y | 88.8 | 75.0-125 |
| PCB-2 | 3.00 | 2.66-3.60 | y | 50.2 | 37.5-62.5 | PCB-73 | 0.79 | 0.65-0.89 | y | 48.2 | 37.5-62.5 |
| PCB-3 | 3.00 | 2.66-3.60 | y | 49.7 | 37.5-62.5 | PCB-43/49 | 0.77 | 0.65-0.89 | y | 89.4 | 75.0-125 |
| PCB-4/10 | 1.62 | 1.33-1.79 | y | 202.0 | 150-250 | PCB-47 | 0.78 | 0.65-0.89 | y | 43.7 | 37.5-62.5 |
| PCB-7/9 | 1.63 | 1.33-1.79 | y | 201.3 | 150-250 | PCB-48/75 | 0.78 | 0.65-0.89 | y | 91.0 | 75.0-125 |
| PCB-6 | 1.63 | 1.33-1.79 | y | 97.7 | 75.0-125 | PCB-65 | 0.77 | 0.65-0.89 | y | 45.3 | 37.5-62.5 |
| PCB-5/8 | 1.62 | 1.33-1.79 | y | 204.0 | 150-250 | PCB-62 | 0.79 | 0.65-0.89 | y | 43.1 | 37.5-62.5 |
| PCB-14 | 1.64 | 1.33-1.79 | y | 100.5 | 75.0-125 | PCB-44 | 0.78 | 0.65-0.89 | y | 44.9 | 37.5-62.5 |
| PCB-11 | 1.64 | 1.33-1.79 | y | 99.2 | 75.0-125 | PCB-42/59 | 0.77 | 0.65-0.89 | y | 89.0 | 75.0-125 |
| PCB-12/13 | 1.63 | 1.33-1.79 | y | 202.2 | 150-250 | PCB-41/64/71/72 | 0.77 | 0.65-0.89 | y | 178.1 | 150-250 |
| PCB-15 | 1.66 | 1.33-1.79 | y | 97.1 | 75.0-125 | PCB-68 | 0.77 | 0.65-0.89 | y | 43.4 | 37.5-62.5 |
| PCB-19 | 1.08 | 0.88-1.20 | y | 53.5 | 37.5-62.5 | PCB-40 | 0.78 | 0.65-0.89 | y | 44.5 | 37.5-62.5 |
| PCB-30 | 1.07 | 0.88-1.20 | y | 55.5 | 37.5-62.5 | PCB-57 | 0.79 | 0.65-0.89 | y | 48.5 | 37.5-62.5 |
| PCB-18 | 1.07 | 0.88-1.20 | y | 60.3 | 37.5-62.5 | PCB-67 | 0.81 | 0.65-0.89 | y | 49.3 | 37.5-62.5 |
| PCB-17 | 1.08 | 0.88-1.20 | y | 58.8 | 37.5-62.5 | PCB-58 | 0.82 | 0.65-0.89 | y | 44.3 | 37.5-62.5 |
| PCB-24/27 | 1.09 | 0.88-1.20 | y | 116.7 | 75.0-125 | PCB-63 | 0.80 | 0.65-0.89 | y | 47.2 | 37.5-62.5 |
| PCB-16/32 | 1.09 | 0.88-1.20 | y | 112.4 | 75.0-125 | PCB-74 | 0.79 | 0.65-0.89 | y | 47.1 | 37.5-62.5 |
| PCB-34 | 0.99 | 0.88-1.20 | y | 47.0 | 37.5-62.5 | PCB-61/70 | 0.81 | 0.65-0.89 | y | 93.0 | 75.0-125 |
| PCB-23 | 1.00 | 0.88-1.20 | y | 47.5 | 37.5-62.5 | PCB-76/66 | 0.79 | 0.65-0.89 | y | 93.8 | 75.0-125 |
| PCB-29 | 1.00 | 0.88-1.20 | y | 44.9 | 37.5-62.5 | PCB-80 | 0.79 | 0.65-0.89 | y | 45.5 | 37.5-62.5 |
| PCB-26 | 1.01 | 0.88-1.20 | y | 47.5 | 37.5-62.5 | PCB-55 | 0.78 | 0.65-0.89 | y | 45.7 | 37.5-62.5 |
| PCB-25 | 1.00 | 0.88-1.20 | y | 44.4 | 37.5-62.5 | PCB-56/60 | 0.82 | 0.65-0.89 | y | 88.1 | 75.0-125 |
| PCB-31 | 0.99 | 0.88-1.20 | y | 39.3 | 37.5-62.5 | PCB-79 | 0.81 | 0.65-0.89 | y | 44.0 | 37.5-62.5 |
| PCB-28 | 1.00 | 0.88-1.20 | y | 43.3 | 37.5-62.5 | PCB-78 | 0.82 | 0.65-0.89 | y | 45.4 | 37.5-62.5 |
| PCB-20/21/33 | 0.99 | 0.88-1.20 | y | 120.6 | 112.5-225 | PCB-81 | 0.81 | 0.65-0.89 | y | 46.7 | 37.5-62.5 |
| PCB-22 | 1.01 | 0.88-1.20 | y | 43.3 | 37.5-62.5 | PCB-77 | 0.86 | 0.65-0.89 | y | 48.4 | 37.5-62.5 |
| PCB-36 | 1.00 | 0.88-1.20 | y | 45.5 | 37.5-62.5 | PCB-104 | 1.61 | 1.32-1.78 | y | 50.3 | 37.5-62.5 |
| PCB-39 | 0.97 | 0.88-1.20 | y | 41.4 | 37.5-62.5 | PCB-96 | 1.63 | 1.32-1.78 | y | 49.4 | 37.5-62.5 |
| PCB-38 | 1.00 | 0.88-1.20 | y | 43.4 | 37.5-62.5 | PCB-103 | 1.63 | 1.32-1.78 | y | 48.6 | 37.5-62.5 |
| PCB-35 | 1.02 | 0.88-1.20 | y | 39.9 | 37.5-62.5 | PCB-100 | 1.60 | 1.32-1.78 | y | 48.0 | 37.5-62.5 |
| PCB-37 | 1.01 | 0.88-1.20 | y | 41.5 | 37.5-62.5 | PCB-94 | 1.61 | 1.32-1.78 | y | 50.8 | 37.5-62.5 |
| PCB-54 | 0.78 | 0.65-0.89 | y | 45.6 | 37.5-62.5 | PCB-95/98/102 | 1.60 | 1.32-1.78 | y | 158.1 | 112.5-225 |
| PCB-50 | 0.77 | 0.65-0.89 | y | 43.7 | 37.5-62.5 | PCB-93 | 1.65 | 1.32-1.78 | y | 41.5 | 37.5-62.5 |
| PCB-53 | 0.77 | 0.65-0.89 | y | 44.9 | 37.5-62.5 | PCB-88/91 | 1.62 | 1.32-1.78 | y | 109.5 | 75.0-125 |
| PCB-51 | 0.77 | 0.65-0.89 | y | 47.5 | 37.5-62.5 | PCB-121 | 1.62 | 1.32-1.78 | y | 42.5 | 37.5-62.5 |
| PCB-45 | 0.76 | 0.65-0.89 | y | 48.0 | 37.5-62.5 | | | | | | |
| PCB-46 | 0.77 | 0.65-0.89 | y | 46.3 | 37.5-62.5 | | | | | | |

Analyst: DM5
Date: 9/19/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140919E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 140919E1 S#1 Analysis Date: 19-SEP-14 Time: 09:33:01

| 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 | 1.61 | 1.32-1.78 | y | 97.6 | 75.0-125 | PCB-140 | 1.25 | 1.05-1.43 | y | 43.4 | 37.5-62.5 |
| PCB-89 | 1.57 | 1.32-1.78 | y | 50.1 | 37.5-62.5 | PCB-134/143 | 1.27 | 1.05-1.43 | y | 104.8 | 75.0-125 |
| PCB-90/101 | 1.60 | 1.32-1.78 | y | 97.3 | 75.0-125 | PCB-133/142 | 1.27 | 1.05-1.43 | y | 100.1 | 75.0-125 |
| PCB-113 | 1.61 | 1.32-1.78 | y | 52.0 | 37.5-62.5 | PCB-131 | 1.24 | 1.05-1.43 | y | 49.6 | 37.5-62.5 |
| PCB-99 | 1.65 | 1.32-1.78 | y | 45.8 | 37.5-62.5 | PCB-146/165 | 1.26 | 1.05-1.43 | y | 97.2 | 75.0-125 |
| PCB-119 | 1.61 | 1.32-1.78 | y | 48.8 | 37.5-62.5 | PCB-132/161 | 1.27 | 1.05-1.43 | y | 99.0 | 75.0-125 |
| PCB-108/112 | 1.62 | 1.32-1.78 | y | 101.5 | 75.0-125 | PCB-153 | 1.27 | 1.05-1.43 | y | 49.9 | 37.5-62.5 |
| PCB-83 | 1.62 | 1.32-1.78 | y | 49.9 | 37.5-62.5 | PCB-168 | 1.27 | 1.05-1.43 | y | 47.1 | 37.5-62.5 |
| PCB-97 | 1.62 | 1.32-1.78 | y | 51.5 | 37.5-62.5 | PCB-141 | 1.24 | 1.05-1.43 | y | 48.3 | 37.5-62.5 |
| PCB-86 | 1.60 | 1.32-1.78 | y | 45.2 | 37.5-62.5 | PCB-137 | 1.28 | 1.05-1.43 | y | 46.5 | 37.5-62.5 |
| PCB-87/117/125 | 1.60 | 1.32-1.78 | y | 151.0 | 112.5-225 | PCB-130 | 1.24 | 1.05-1.43 | y | 46.8 | 37.5-62.5 |
| PCB-111/115 | 1.62 | 1.32-1.78 | y | 99.3 | 75.0-125 | PCB-138/163/164 | 1.26 | 1.05-1.43 | y | 148.1 | 112.5-225 |
| PCB-85/116 | 1.63 | 1.32-1.78 | y | 97.8 | 75.0-125 | PCB-158/160 | 1.27 | 1.05-1.43 | y | 94.9 | 75.0-125 |
| PCB-120 | 1.64 | 1.32-1.78 | y | 45.7 | 37.5-62.5 | PCB-129 | 1.28 | 1.05-1.43 | y | 49.1 | 37.5-62.5 |
| PCB-110 | 1.63 | 1.32-1.78 | y | 48.5 | 37.5-62.5 | PCB-166 | 1.27 | 1.05-1.43 | y | 50.6 | 37.5-62.5 |
| PCB-82 | 1.62 | 1.32-1.78 | y | 55.7 | 37.5-62.5 | PCB-159 | 1.33 | 1.05-1.43 | y | 48.9 | 37.5-62.5 |
| PCB-124 | 1.57 | 1.32-1.78 | y | 47.9 | 37.5-62.5 | PCB-128/162 | 1.28 | 1.05-1.43 | y | 105.0 | 75.0-125 |
| PCB-107/109 | 1.62 | 1.32-1.78 | y | 104.4 | 75.0-125 | PCB-167 | 1.25 | 1.05-1.43 | y | 48.3 | 37.5-62.5 |
| PCB-123 | 1.61 | 1.32-1.78 | y | 50.0 | 37.5-62.5 | PCB-156 | 1.27 | 1.05-1.43 | y | 49.6 | 37.5-62.5 |
| PCB-106/118 | 1.62 | 1.32-1.78 | y | 98.7 | 75.0-125 | PCB-157 | 1.30 | 1.05-1.43 | y | 49.4 | 37.5-62.5 |
| PCB-114 | 1.60 | 1.32-1.78 | y | 48.3 | 37.5-62.5 | PCB-169 | 1.27 | 1.05-1.43 | y | 47.6 | 37.5-62.5 |
| PCB-122 | 1.63 | 1.32-1.78 | y | 49.4 | 37.5-62.5 | PCB-188 | 1.05 | 0.89-1.21 | y | 49.9 | 37.5-62.5 |
| PCB-105 | 1.63 | 1.32-1.78 | y | 51.0 | 37.5-62.5 | PCB-184 | 1.07 | 0.89-1.21 | y | 50.0 | 37.5-62.5 |
| PCB-127 | 1.63 | 1.32-1.78 | y | 48.5 | 37.5-62.5 | PCB-179 | 1.06 | 0.89-1.21 | y | 49.0 | 37.5-62.5 |
| PCB-126 | 1.65 | 1.32-1.78 | y | 50.0 | 37.5-62.5 | PCB-176 | 1.07 | 0.89-1.21 | y | 47.7 | 37.5-62.5 |
| PCB-155 | 1.27 | 1.05-1.43 | y | 50.6 | 37.5-62.5 | PCB-186 | 1.07 | 0.89-1.21 | y | 49.2 | 37.5-62.5 |
| PCB-150 | 1.28 | 1.05-1.43 | y | 49.0 | 37.5-62.5 | PCB-178 | 1.07 | 0.89-1.21 | y | 46.8 | 37.5-62.5 |
| PCB-152 | 1.28 | 1.05-1.43 | y | 48.1 | 37.5-62.5 | PCB-175 | 1.06 | 0.89-1.21 | y | 44.6 | 37.5-62.5 |
| PCB-145 | 1.29 | 1.05-1.43 | y | 47.0 | 37.5-62.5 | PCB-182/187 | 1.07 | 0.89-1.21 | y | 94.9 | 75.0-125 |
| PCB-136 | 1.27 | 1.05-1.43 | y | 45.9 | 37.5-62.5 | PCB-183 | 1.08 | 0.89-1.21 | y | 46.1 | 37.5-62.5 |
| PCB-148 | 1.29 | 1.05-1.43 | y | 49.3 | 37.5-62.5 | PCB-185 | 1.04 | 0.89-1.21 | y | 53.9 | 37.5-62.5 |
| PCB-154 | 1.29 | 1.05-1.43 | y | 45.3 | 37.5-62.5 | PCB-174 | 1.05 | 0.89-1.21 | y | 57.5 | 37.5-62.5 |
| PCB-151 | 1.25 | 1.05-1.43 | y | 43.0 | 37.5-62.5 | PCB-181 | 1.06 | 0.89-1.21 | y | 52.1 | 37.5-62.5 |
| PCB-135 | 1.27 | 1.05-1.43 | y | 40.3 | 37.5-62.5 | PCB-177 | 1.07 | 0.89-1.21 | y | 54.9 | 37.5-62.5 |
| PCB-144 | 1.29 | 1.05-1.43 | y | 47.1 | 37.5-62.5 | PCB-171 | 1.06 | 0.89-1.21 | y | 54.8 | 37.5-62.5 |
| PCB-147 | 1.29 | 1.05-1.43 | y | 42.8 | 37.5-62.5 | PCB-173 | 1.08 | 0.89-1.21 | y | 53.2 | 37.5-62.5 |
| PCB-139/149 | 1.29 | 1.05-1.43 | y | 89.1 | 75.0-125 | PCB-172 | 1.08 | 0.89-1.21 | y | 51.8 | 37.5-62.5 |

Analyst: *DMJ*

Date: *9/19/14*

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140919E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 140919E1 S#1 Analysis Date: 19-SEP-14 Time: 09:33:01

| ANALYTES | ION | QC | PASS | CONC. | CONC. |
|-------------|--------|-----------|------|-------|-----------|
| | ABUND. | LIMITS | | FOUND | RANGE |
| | RATIO | | | | (ng/mL) |
| PCB-192 | 1.06 | 0.89-1.21 | y | 48.4 | 37.5-62.5 |
| PCB-180 | 1.05 | 0.89-1.21 | y | 49.6 | 37.5-62.5 |
| PCB-193 | 1.07 | 0.89-1.21 | y | 49.0 | 37.5-62.5 |
| PCB-191 | 1.07 | 0.89-1.21 | y | 46.9 | 37.5-62.5 |
| PCB-170 | 1.08 | 0.89-1.21 | y | 50.0 | 37.5-62.5 |
| PCB-190 | 1.04 | 0.89-1.21 | y | 47.1 | 37.5-62.5 |
| PCB-189 | 1.04 | 0.89-1.21 | y | 52.0 | 37.5-62.5 |
| PCB-202 | 0.91 | 0.76-1.02 | y | 48.8 | 37.5-62.5 |
| PCB-201 | 0.91 | 0.76-1.02 | y | 46.4 | 37.5-62.5 |
| PCB-204 | 0.92 | 0.76-1.02 | y | 47.3 | 37.5-62.5 |
| PCB-197 | 0.92 | 0.76-1.02 | y | 46.3 | 37.5-62.5 |
| PCB-200 | 0.91 | 0.76-1.02 | y | 46.5 | 37.5-62.5 |
| PCB-198 | 0.91 | 0.76-1.02 | y | 39.0 | 37.5-62.5 |
| PCB-199 | 0.90 | 0.76-1.02 | y | 42.6 | 37.5-62.5 |
| PCB-196/203 | 0.93 | 0.76-1.02 | y | 81.6 | 75.0-125 |
| PCB-195 | 0.93 | 0.76-1.02 | y | 56.5 | 37.5-62.5 |
| PCB-194 | 0.88 | 0.76-1.02 | y | 50.7 | 37.5-62.5 |
| PCB-205 | 0.90 | 0.76-1.02 | y | 48.5 | 37.5-62.5 |
| PCB-208 | 1.37 | 1.14-1.54 | y | 50.6 | 37.5-62.5 |
| PCB-207 | 1.34 | 1.14-1.54 | y | 48.9 | 37.5-62.5 |
| PCB-206 | 1.38 | 1.14-1.54 | y | 51.9 | 37.5-62.5 |
| PCB-209 | 1.17 | 0.99-1.33 | y | 49.2 | 37.5-62.5 |

Analyst: DmsDate: 9/19/14

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140919E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 140919E1 S#1 Analysis Date: 19-SEP-14 Time: 09:33:01

| LABELED IS | ION ABUND. RATIO | QC LIMITS | PASS | CONC. CONC. FOUND | CONC. RANGE (ng/mL) | LABELED IS | ION ABUND. RATIO | QC LIMITS | PASS | CONC. CONC. FOUND | CONC. RANGE (ng/mL) |
|-------------|------------------------|--------------|------|-------------------------|---------------------------|-------------|------------------------|--------------|------|-------------------------|---------------------------|
| 13C-PCB-1 | 3.44 | 2.66-3.60 | y | 107.0 | 50.0-145 | 13C-PCB-169 | 1.29 | 1.05-1.43 | y | 71.7 | 50 - 145 |
| 13C-PCB-3 | 3.48 | 2.66-3.60 | y | 109.1 | 50.0-145 | 13C-PCB-188 | 0.45 | 0.38-0.52 | y | 122.1 | 50 - 145 |
| 13C-PCB-4 | 1.58 | 1.33-1.79 | y | 104.2 | 50.0-145 | 13C-PCB-180 | 0.47 | 0.38-0.52 | y | 96.1 | 50 - 145 |
| 13C-PCB-9 | 1.58 | 1.33-1.79 | y | 101.8 | 50.0-145 | 13C-PCB-170 | 0.46 | 0.38-0.52 | y | 93.3 | 50 - 145 |
| 13C-PCB-11 | 1.57 | 1.33-1.79 | y | 100.6 | 50.0-145 | 13C-PCB-189 | 0.46 | 0.38-0.52 | y | 74.9 | 50 - 145 |
| 13C-PCB-19 | 1.11 | 0.88-1.20 | y | 97.8 | 50.0-145 | 13C-PCB-202 | 0.91 | 0.76-1.02 | y | 127.3 | 50 - 145 |
| 13C-PCB-32 | 1.11 | 0.88-1.20 | y | 89.9 | 50.0-145 | 13C-PCB-194 | 0.93 | 0.76-1.02 | y | 102.9 | 50 - 145 |
| 13C-PCB-28 | 1.08 | 0.88-1.20 | y | 97.2 | 50.0-145 | 13C-PCB-208 | 0.77 | 0.65-0.89 | y | 128.7 | 50 - 145 |
| 13C-PCB-37 | 1.10 | 0.88-1.20 | y | 91.3 | 50.0-145 | 13C-PCB-206 | 0.79 | 0.65-0.89 | y | 101.2 | 50 - 145 |
| 13C-PCB-54 | 0.82 | 0.65-0.89 | y | 127.5 | 50.0-145 | 13C-PCB-209 | 1.17 | 0.99-1.33 | y | 107.5 | 50 - 145 |
| 13C-PCB-52 | 0.81 | 0.65-0.89 | y | 116.3 | 50.0-145 | | | | | | |
| 13C-PCB-47 | 0.80 | 0.65-0.89 | y | 115.8 | 50.0-145 | | | | | | |
| 13C-PCB-70 | 0.80 | 0.65-0.89 | y | 101.1 | 50.0-145 | | | | | | |
| 13C-PCB-80 | 0.81 | 0.65-0.89 | y | 101.0 | 50.0-145 | | | | | | |
| 13C-PCB-81 | 0.80 | 0.65-0.89 | y | 95.1 | 50.0-145 | | | | | | |
| 13C-PCB-77 | 0.82 | 0.65-0.89 | y | 90.8 | 50.0-145 | | | | | | |
| 13C-PCB-104 | 1.59 | 1.32-1.78 | y | 113.4 | 50.0-145 | | | | | | |
| 13C-PCB-95 | 1.59 | 1.32-1.78 | y | 106.9 | 50.0-145 | | | | | | |
| 13C-PCB-101 | 1.58 | 1.32-1.78 | y | 104.9 | 50.0-145 | CRS vs. RS | | | | | |
| 13C-PCB-97 | 1.57 | 1.32-1.78 | y | 102.1 | 50.0-145 | | | | | | |
| 13C-PCB-123 | 1.60 | 1.32-1.78 | y | 87.5 | 50.0-145 | 13C-PCB-79 | 0.82 | 0.65-0.89 | y | 103.5 | 75 - 125 |
| 13C-PCB-118 | 1.60 | 1.32-1.78 | y | 90.0 | 50.0-145 | 13C-PCB-178 | 0.46 | 0.38-0.52 | y | 124.9 | 75 - 125 |
| 13C-PCB-114 | 1.68 | 1.32-1.78 | y | 90.0 | 50.0-145 | | | | | | |
| 13C-PCB-105 | 1.68 | 1.32-1.78 | y | 87.3 | 50.0-145 | | | | | | |
| 13C-PCB-127 | 1.63 | 1.32-1.78 | y | 82.3 | 50.0-145 | | | | | | |
| 13C-PCB-126 | 1.68 | 1.32-1.78 | y | 76.0 | 50.0-145 | | | | | | |
| 13C-PCB-155 | 1.28 | 1.05-1.43 | y | 122.3 | 50.0-145 | | | | | | |
| 13C-PCB-153 | 1.31 | 1.05-1.43 | y | 104.1 | 50.0-145 | | | | | | |
| 13C-PCB-141 | 1.32 | 1.05-1.43 | y | 107.7 | 50.0-145 | | | | | | |
| 13C-PCB-138 | 1.29 | 1.05-1.43 | y | 102.4 | 50.0-145 | | | | | | |
| 13C-PCB-159 | 1.30 | 1.05-1.43 | y | 91.5 | 50.0-145 | | | | | | |
| 13C-PCB-167 | 1.30 | 1.05-1.43 | y | 89.3 | 50.0-145 | | | | | | |
| 13C-PCB-156 | 1.27 | 1.05-1.43 | y | 82.5 | 50.0-145 | | | | | | |
| 13C-PCB-157 | 1.32 | 1.05-1.43 | y | 86.6 | 50.0-145 | | | | | | |

Analyst: *DMS*

Date: 9/19/14

Client ID: PCB CS3 14F1901
Lab ID: ST140919E1-1

Filename: 140919E1 S:1 Acq:19-SEP-14 09:33:01 ConCal: ST140919E1-1
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: ST140919E1-2

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc |
|--------------|----------|------|-----|------|-------|-------|-------------|---------|-----------------|----------|------|-----|------|-------|-------|-------------|---------|
| PCB-1 | 1.09e+08 | 2.97 | y | 1.25 | 16:18 | 1.001 | 0.996-1.006 | 50.4072 | PCB-52/69 | 1.14e+08 | 0.77 | y | 1.28 | 31:42 | 1.001 | 0.996-1.006 | 88.8097 |
| PCB-2 | 1.09e+08 | 3.00 | y | 1.18 | 18:41 | 0.988 | 0.983-0.993 | 50.2282 | PCB-73 | 6.63e+07 | 0.79 | y | 1.37 | 31:49 | 1.004 | 1.000-1.010 | 48.2291 |
| PCB-3 | 1.11e+08 | 3.00 | y | 1.22 | 18:55 | 1.001 | 0.996-1.006 | 49.6830 | PCB-43/49 | 9.97e+07 | 0.77 | y | 1.11 | 31:59 | 1.010 | 1.005-1.015 | 89.3569 |
| PCB-4/10 | 3.26e+08 | 1.62 | y | 1.55 | 20:17 | 1.002 | 0.998-1.008 | 202.038 | PCB-47 | 5.18e+07 | 0.78 | y | 1.13 | 32:12 | 1.000 | 0.996-1.006 | 43.6515 |
| PCB-7/9 | 3.90e+08 | 1.63 | y | 1.27 | 22:04 | 0.868 | 0.865-0.873 | 201.343 | PCB-48/75 | 1.24e+08 | 0.78 | y | 1.30 | 32:19 | 1.004 | 0.999-1.009 | 90.9974 |
| PCB-6 | 1.88e+08 | 1.63 | y | 1.26 | 22:43 | 0.894 | 0.890-0.899 | 97.6701 | PCB-65 | 6.33e+07 | 0.77 | y | 1.33 | 32:34 | 1.012 | 1.007-1.017 | 45.2564 |
| PCB-5/8 | 3.84e+08 | 1.62 | y | 1.23 | 23:08 | 0.910 | 0.906-0.916 | 204.006 | PCB-62 | 5.84e+07 | 0.79 | y | 1.29 | 32:41 | 1.015 | 1.011-1.021 | 43.0793 |
| PCB-14 | 2.12e+08 | 1.64 | y | 1.23 | 24:14 | 0.954 | 0.949-0.959 | 100.507 | PCB-44 | 4.43e+07 | 0.78 | y | 0.94 | 32:59 | 1.025 | 1.020-1.030 | 44.9050 |
| PCB-11 | 1.97e+08 | 1.64 | y | 1.16 | 25:25 | 1.000 | 0.996-1.006 | 99.2120 | PCB-42/59 | 1.14e+08 | 0.77 | y | 1.22 | 33:13 | 1.032 | 1.028-1.038 | 89.0494 |
| PCB-12/13 | 3.81e+08 | 1.63 | y | 1.10 | 25:49 | 1.016 | 1.010-1.020 | 202.245 | PCB-41/64/71/72 | 2.45e+08 | 0.77 | y | 1.31 | 33:48 | 1.050 | 1.046-1.056 | 178.106 |
| PCB-15 | 2.01e+08 | 1.66 | y | 1.21 | 26:08 | 1.028 | 1.024-1.034 | 97.1064 | PCB-68 | 6.77e+07 | 0.77 | y | 1.49 | 34:03 | 1.058 | 1.054-1.064 | 43.4475 |
| PCB-19 | 6.57e+07 | 1.08 | y | 1.30 | 24:25 | 1.001 | 0.996-1.006 | 53.5318 | PCB-40 | 3.83e+07 | 0.78 | y | 0.82 | 34:17 | 1.065 | 1.061-1.071 | 44.5378 |
| PCB-30 | 9.63e+07 | 1.07 | y | 1.83 | 25:18 | 1.037 | 1.032-1.042 | 55.5275 | PCB-57 | 6.29e+07 | 0.79 | y | 1.11 | 34:38 | 0.970 | 0.965-0.975 | 48.5166 |
| PCB-18 | 6.88e+07 | 1.07 | y | 0.86 | 26:03 | 0.954 | 0.949-0.959 | 60.2512 | PCB-67 | 6.16e+07 | 0.81 | y | 1.07 | 34:56 | 0.979 | 0.974-0.984 | 49.3124 |
| PCB-17 | 7.04e+07 | 1.08 | y | 0.90 | 26:14 | 0.961 | 0.955-0.965 | 58.8473 | PCB-58 | 5.68e+07 | 0.82 | y | 1.10 | 35:03 | 0.982 | 0.977-0.987 | 44.3284 |
| PCB-24/27 | 1.83e+08 | 1.09 | y | 1.18 | 26:48 | 0.981 | 0.976-0.986 | 116.701 | PCB-63 | 6.13e+07 | 0.80 | y | 1.12 | 35:12 | 0.986 | 0.982-0.992 | 47.1749 |
| PCB-16/32 | 1.54e+08 | 1.09 | y | 1.03 | 27:19 | 1.000 | 0.995-1.005 | 112.384 | PCB-74 | 6.59e+07 | 0.79 | y | 1.20 | 35:31 | 0.995 | 0.990-1.000 | 47.0541 |
| PCB-34 | 6.69e+07 | 0.99 | y | 1.26 | 28:06 | 0.960 | 0.956-0.966 | 47.0302 | PCB-61/70 | 1.17e+08 | 0.81 | y | 1.08 | 35:41 | 1.000 | 0.994-1.004 | 93.0026 |
| PCB-23 | 7.02e+07 | 1.00 | y | 1.31 | 28:12 | 0.963 | 0.959-0.969 | 47.4895 | PCB-76/66 | 1.24e+08 | 0.79 | y | 1.14 | 35:53 | 1.005 | 1.001-1.011 | 93.7900 |
| PCB-29 | 6.72e+07 | 1.00 | y | 1.33 | 28:27 | 0.972 | 0.967-0.977 | 44.8504 | PCB-80 | 6.88e+07 | 0.79 | y | 1.28 | 36:07 | 1.000 | 0.996-1.006 | 45.5158 |
| PCB-26 | 6.92e+07 | 1.01 | y | 1.29 | 28:39 | 0.979 | 0.974-0.984 | 47.5142 | PCB-55 | 6.00e+07 | 0.78 | y | 1.11 | 36:27 | 1.009 | 1.005-1.015 | 45.6724 |
| PCB-25 | 6.72e+07 | 1.00 | y | 1.34 | 28:49 | 0.984 | 0.980-0.990 | 44.3758 | PCB-56/60 | 1.13e+08 | 0.82 | y | 1.09 | 36:57 | 1.023 | 1.018-1.028 | 88.0546 |
| PCB-31 | 6.29e+07 | 0.99 | y | 1.42 | 29:11 | 0.997 | 0.992-1.002 | 39.3172 | PCB-79 | 5.85e+07 | 0.81 | y | 1.12 | 38:01 | 1.053 | 1.048-1.058 | 43.9975 |
| PCB-28 | 6.73e+07 | 1.00 | y | 1.38 | 29:17 | 1.000 | 0.996-1.006 | 43.3059 | PCB-78 | 5.46e+07 | 0.82 | y | 1.24 | 38:43 | 0.987 | 0.982-0.992 | 45.4367 |
| PCB-20/21/33 | 1.78e+08 | 0.99 | y | 1.31 | 29:54 | 1.021 | 1.017-1.027 | 120.555 | PCB-81 | 6.27e+07 | 0.81 | y | 1.38 | 39:14 | 1.000 | 0.995-1.005 | 46.6995 |
| PCB-22 | 6.46e+07 | 1.01 | y | 1.32 | 30:20 | 1.036 | 1.032-1.042 | 43.3076 | PCB-77 | 5.78e+07 | 0.86 | y | 1.21 | 39:50 | 1.000 | 0.995-1.005 | 48.3989 |
| PCB-36 | 6.22e+07 | 1.00 | y | 1.38 | 30:57 | 0.934 | 0.929-0.939 | 45.5450 | PCB-104 | 6.68e+07 | 1.61 | y | 1.26 | 32:51 | 1.000 | 0.996-1.006 | 50.2597 |
| PCB-39 | 5.84e+07 | 0.97 | y | 1.42 | 31:25 | 0.948 | 0.943-0.953 | 41.4287 | PCB-96 | 5.70e+07 | 1.63 | y | 1.09 | 34:08 | 1.039 | 1.034-1.044 | 49.4246 |
| PCB-38 | 5.83e+07 | 1.00 | y | 1.35 | 32:12 | 0.972 | 0.967-0.976 | 43.3954 | PCB-103 | 4.79e+07 | 1.63 | y | 0.93 | 34:39 | 1.055 | 1.050-1.060 | 48.6423 |
| PCB-35 | 5.44e+07 | 1.02 | y | 1.38 | 32:44 | 0.988 | 0.982-0.992 | 39.8668 | PCB-100 | 5.08e+07 | 1.60 | y | 1.00 | 35:00 | 1.066 | 1.061-1.071 | 47.9577 |
| PCB-37 | 5.73e+07 | 1.01 | y | 1.39 | 33:10 | 1.001 | 0.996-1.006 | 41.4801 | PCB-94 | 4.19e+07 | 1.61 | y | 1.11 | 35:28 | 0.985 | 0.981-0.991 | 50.8314 |
| PCB-54 | 7.20e+07 | 0.78 | y | 1.20 | 28:10 | 1.000 | 0.996-1.006 | 45.5859 | PCB-95/98/102 | 1.43e+08 | 1.60 | y | 1.21 | 35:58 | 0.999 | 0.994-1.004 | 158.089 |
| PCB-50 | 5.58e+07 | 0.77 | y | 0.97 | 29:20 | 1.042 | 1.037-1.047 | 43.7401 | PCB-93 | 3.49e+07 | 1.65 | y | 1.13 | 36:06 | 1.003 | 0.998-1.008 | 41.4752 |
| PCB-53 | 5.35e+07 | 0.77 | y | 1.19 | 29:59 | 0.946 | 0.941-0.951 | 44.9394 | PCB-88/91 | 8.31e+07 | 1.62 | y | 1.02 | 36:23 | 1.011 | 1.006-1.016 | 109.503 |
| PCB-51 | 5.49e+07 | 0.77 | y | 1.15 | 30:19 | 0.957 | 0.952-0.962 | 47.5207 | PCB-121 | 6.03e+07 | 1.62 | y | 1.90 | 36:30 | 1.014 | 1.009-1.019 | 42.5426 |
| PCB-45 | 4.64e+07 | 0.76 | y | 0.97 | 30:45 | 0.971 | 0.966-0.976 | 47.9615 | PCB-84/92 | 7.91e+07 | 1.61 | y | 1.05 | 37:19 | 0.990 | 0.986-0.996 | 97.5829 |
| PCB-46 | 4.41e+07 | 0.77 | y | 0.95 | 31:15 | 0.986 | 0.982-0.992 | 46.2754 | PCB-89 | 3.93e+07 | 1.57 | y | 1.02 | 37:30 | 0.995 | 0.991-1.001 | 50.1179 |

RL: MONO, TRI - DECA: _____

RL: DI : _____

Integrations

by

Analyst: Dms

Date: 9/19/14

Reviewed

by

Analyst: _____

Date: _____

Client ID: PCB CS3 14F1901
Lab ID: ST140919E1-1

Filename: 140919E1 S:1 Acq:19-SEP-14 09:33:01
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: ST140919E1-2

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc |
|---------------|----------|------|-----|------|-------|-------|-------------|---------|-----------------|----------|------|-----|------|-------|-------|-------------|---------|
| PCB-90/101 | 8.93e+07 | 1.60 | y | 1.19 | 37:41 | 1.000 | 0.996-1.006 | 97.3177 | PCB-133/142 | 7.12e+07 | 1.27 | y | 0.95 | 42:37 | 0.982 | 0.977-0.987 | 100.071 |
| PCB-113 | 5.41e+07 | 1.61 | y | 1.35 | 37:56 | 1.007 | 1.002-1.012 | 51.9533 | PCB-131 | 3.41e+07 | 1.24 | y | 0.91 | 42:46 | 0.986 | 0.981-0.991 | 49.5525 |
| PCB-99 | 4.55e+07 | 1.65 | y | 1.29 | 38:02 | 1.009 | 1.005-1.015 | 45.8085 | PCB-146/165 | 8.46e+07 | 1.26 | y | 1.16 | 43:00 | 0.991 | 0.986-0.996 | 97.2214 |
| PCB-119 | 5.53e+07 | 1.61 | y | 1.72 | 38:29 | 0.987 | 0.982-0.992 | 48.7612 | PCB-132/161 | 8.29e+07 | 1.27 | y | 1.11 | 43:15 | 0.997 | 0.992-1.002 | 98.9946 |
| PCB-108/112 | 8.61e+07 | 1.62 | y | 1.29 | 38:38 | 0.991 | 0.986-0.996 | 101.530 | PCB-153 | 4.43e+07 | 1.27 | y | 1.18 | 43:25 | 1.001 | 0.995-1.005 | 49.9464 |
| PCB-83 | 4.99e+07 | 1.62 | y | 1.52 | 38:48 | 0.995 | 0.991-1.001 | 49.8659 | PCB-168 | 4.85e+07 | 1.27 | y | 1.37 | 43:37 | 1.005 | 1.000-1.010 | 47.1291 |
| PCB-97 | 4.23e+07 | 1.62 | y | 1.25 | 39:00 | 1.001 | 0.996-1.006 | 51.4667 | PCB-141 | 3.53e+07 | 1.24 | y | 0.97 | 44:08 | 1.000 | 0.996-1.005 | 48.2531 |
| PCB-86 | 3.04e+07 | 1.60 | y | 1.02 | 39:09 | 1.004 | 1.000-1.010 | 45.2460 | PCB-137 | 3.73e+07 | 1.28 | y | 1.07 | 44:32 | 1.009 | 1.004-1.014 | 46.4688 |
| B-87/117/125 | 1.55e+08 | 1.60 | y | 1.56 | 39:16 | 1.007 | 1.002-1.012 | 151.047 | PCB-130 | 2.97e+07 | 1.24 | y | 0.85 | 44:39 | 1.012 | 1.007-1.017 | 46.7781 |
| PCB-111/115 | 1.15e+08 | 1.62 | y | 1.75 | 39:26 | 1.012 | 1.007-1.017 | 99.2962 | PCB-138/163/164 | 1.26e+08 | 1.26 | y | 1.23 | 45:00 | 1.000 | 0.996-1.006 | 148.080 |
| PCB-85/116 | 8.39e+07 | 1.63 | y | 1.30 | 39:34 | 1.015 | 1.010-1.020 | 97.8421 | PCB-158/160 | 8.49e+07 | 1.27 | y | 1.29 | 45:16 | 1.006 | 1.001-1.011 | 94.8684 |
| PCB-120 | 5.36e+07 | 1.64 | y | 1.78 | 39:47 | 1.021 | 1.016-1.026 | 45.6568 | PCB-129 | 3.15e+07 | 1.28 | y | 0.92 | 45:29 | 1.011 | 1.007-1.017 | 49.0965 |
| PCB-110 | 5.36e+07 | 1.63 | y | 1.68 | 39:56 | 1.025 | 1.020-1.030 | 48.4727 | PCB-166 | 4.02e+07 | 1.27 | y | 1.12 | 45:57 | 0.993 | 0.988-0.998 | 50.5738 |
| PCB-82 | 3.20e+07 | 1.62 | y | 0.74 | 40:34 | 0.976 | 0.972-0.982 | 55.6786 | PCB-159 | 4.06e+07 | 1.33 | y | 1.16 | 46:17 | 1.000 | 0.995-1.005 | 48.9438 |
| PCB-124 | 4.92e+07 | 1.57 | y | 1.32 | 41:14 | 0.993 | 0.988-0.998 | 47.8668 | PCB-128/162 | 7.62e+07 | 1.28 | y | 1.02 | 46:34 | 1.007 | 1.002-1.012 | 104.969 |
| PCB-107/109 | 9.91e+07 | 1.62 | y | 1.22 | 41:23 | 0.996 | 0.991-1.001 | 104.362 | PCB-167 | 3.93e+07 | 1.25 | y | 1.06 | 46:57 | 1.000 | 0.995-1.005 | 48.3083 |
| PCB-123 | 4.74e+07 | 1.61 | y | 1.22 | 41:33 | 1.000 | 0.995-1.005 | 50.0368 | PCB-156 | 3.91e+07 | 1.27 | y | 1.18 | 48:15 | 1.000 | 0.995-1.005 | 49.6483 |
| - PCB-106/118 | 1.00e+08 | 1.62 | y | 1.22 | 41:46 | 1.001 | 0.996-1.006 | 98.7444 | PCB-157 | 3.94e+07 | 1.30 | y | 1.08 | 48:31 | 1.000 | 0.995-1.005 | 49.3784 |
| - PCB-114 | 4.61e+07 | 1.60 | y | 1.36 | 42:23 | 1.000 | 0.995-1.005 | 48.2628 | PCB-169 | 2.98e+07 | 1.27 | y | 1.11 | 50:38 | 1.000 | 0.995-1.005 | 47.5908 |
| PCB-122 | 4.31e+07 | 1.63 | y | 1.24 | 42:31 | 1.003 | 0.999-1.009 | 49.4299 | | | | | | | | | |
| PCB-105 | 4.59e+07 | 1.63 | y | 1.28 | 43:15 | 1.000 | 0.995-1.005 | 50.9874 | PCB-188 | 5.20e+07 | 1.05 | y | 1.40 | 43:03 | 1.001 | 0.995-1.005 | 49.9033 |
| PCB-127 | 3.97e+07 | 1.63 | y | 1.14 | 43:35 | 1.000 | 0.995-1.005 | 48.4715 | PCB-184 | 4.58e+07 | 1.07 | y | 1.24 | 43:30 | 1.011 | 1.006-1.016 | 49.9670 |
| PCB-126 | 3.68e+07 | 1.65 | y | 1.28 | 45:29 | 1.000 | 0.995-1.005 | 50.0036 | PCB-179 | 4.74e+07 | 1.06 | y | 1.30 | 44:17 | 1.029 | 1.024-1.034 | 49.0038 |
| | | | | | | | | | PCB-176 | 4.81e+07 | 1.07 | y | 1.36 | 44:44 | 1.040 | 1.035-1.045 | 47.6505 |
| PCB-155 | 5.47e+07 | 1.27 | y | 1.14 | 37:15 | 1.001 | 0.966-1.006 | 50.5592 | PCB-186 | 4.66e+07 | 1.07 | y | 1.28 | 45:21 | 1.054 | 1.049-1.059 | 49.2457 |
| PCB-150 | 4.97e+07 | 1.28 | y | 1.06 | 38:30 | 1.034 | 1.030-1.040 | 48.9975 | PCB-178 | 3.25e+07 | 1.07 | y | 0.94 | 45:50 | 1.065 | 1.061-1.071 | 46.8448 |
| PCB-152 | 5.03e+07 | 1.28 | y | 1.10 | 38:59 | 1.047 | 1.043-1.053 | 48.0941 | PCB-175 | 3.20e+07 | 1.06 | y | 0.97 | 46:11 | 1.073 | 1.069-1.079 | 44.5527 |
| PCB-145 | 4.89e+07 | 1.29 | y | 1.09 | 39:26 | 1.059 | 1.055-1.065 | 46.9724 | PCB-182/187 | 7.14e+07 | 1.07 | y | 1.01 | 46:21 | 1.077 | 1.073-1.083 | 94.9041 |
| PCB-136 | 4.74e+07 | 1.27 | y | 1.08 | 39:45 | 1.068 | 1.064-1.074 | 45.8942 | PCB-183 | 3.70e+07 | 1.08 | y | 1.08 | 46:41 | 1.085 | 1.080-1.090 | 46.0557 |
| PCB-148 | 3.48e+07 | 1.29 | y | 0.74 | 39:51 | 1.071 | 1.066-1.076 | 49.2907 | PCB-185 | 3.04e+07 | 1.04 | y | 1.34 | 47:20 | 0.956 | 0.951-0.961 | 53.8702 |
| PCB-154 | 3.81e+07 | 1.29 | y | 0.88 | 40:20 | 1.084 | 1.079-1.089 | 45.3155 | PCB-174 | 3.24e+07 | 1.05 | y | 1.34 | 47:42 | 0.963 | 0.958-0.968 | 57.5236 |
| PCB-151 | 3.31e+07 | 1.25 | y | 0.81 | 40:59 | 1.101 | 1.097-1.107 | 42.9680 | PCB-181 | 2.98e+07 | 1.06 | y | 1.36 | 47:49 | 0.965 | 0.961-0.971 | 52.0733 |
| PCB-135 | 2.99e+07 | 1.27 | y | 0.78 | 41:11 | 1.107 | 1.101-1.113 | 40.3153 | PCB-177 | 2.87e+07 | 1.07 | y | 1.24 | 47:59 | 0.969 | 0.964-0.974 | 54.9391 |
| PCB-144 | 3.68e+07 | 1.29 | y | 0.82 | 41:18 | 1.110 | 1.105-1.116 | 47.1150 | PCB-171 | 3.03e+07 | 1.06 | y | 1.31 | 48:16 | 0.974 | 0.970-0.980 | 54.7936 |
| PCB-147 | 3.38e+07 | 1.29 | y | 0.83 | 41:26 | 1.113 | 1.011-1.120 | 42.8257 | PCB-173 | 2.60e+07 | 1.08 | y | 1.16 | 48:42 | 0.983 | 0.979-0.989 | 53.2102 |
| PCB-139/149 | 7.17e+07 | 1.29 | y | 0.84 | 41:42 | 1.120 | 1.115-1.127 | 89.1300 | PCB-172 | 2.66e+07 | 1.08 | y | 1.22 | 49:09 | 0.992 | 0.988-0.998 | 51.8292 |
| - PCB-140 | 3.25e+07 | 1.25 | y | 0.79 | 41:54 | 1.125 | 1.120-1.132 | 43.4469 | PCB-192 | 3.11e+07 | 1.06 | y | 1.53 | 49:20 | 0.996 | 0.991-1.001 | 48.3730 |
| - PCB-134/143 | 7.31e+07 | 1.27 | y | 0.93 | 42:20 | 0.976 | 0.970-0.980 | 104.822 | PCB-180 | 2.98e+07 | 1.05 | y | 1.43 | 49:33 | 1.000 | 0.995-1.005 | 49.6397 |

Integrations

by

RL: MONO, TRI - DECA: _____

Analyst: DMS

Date: 9/19/14

Client ID: PCB CS3 14F1901
Lab ID: ST140919E1-1

Filename: 140919E1 S:1 Acq:19-SEP-14 09:33:01
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000

ConCal: ST140919E1-1
EndCAL: ST140919E1-2

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc |
|---------------|----------|--------|------|-------|-------|-------------|-----|---------|
| PCB-193 | 3.41e+07 | 1.07 y | 1.65 | 49:45 | 1.004 | 0.999-1.009 | | 48.9756 |
| PCB-191 | 3.30e+07 | 1.07 y | 1.67 | 49:60 | 1.009 | 1.004-1.014 | | 46.9463 |
| PCB-170 | 2.44e+07 | 1.08 y | 1.50 | 51:01 | 1.000 | 0.995-1.005 | | 50.0038 |
| PCB-190 | 3.08e+07 | 1.04 y | 2.02 | 51:11 | 1.004 | 0.998-1.008 | | 47.0515 |
| PCB-189 | 2.79e+07 | 1.04 y | 1.54 | 52:29 | 1.000 | 0.995-1.005 | | 51.9537 |
| PCB-202 | 3.49e+07 | 0.91 y | 1.04 | 48:29 | 1.000 | 0.995-1.005 | | 48.7533 |
| PCB-201 | 3.52e+07 | 0.91 y | 1.10 | 48:58 | 1.010 | 1.006-1.016 | | 46.4092 |
| PCB-204 | 3.24e+07 | 0.92 y | 0.99 | 49:07 | 1.014 | 1.009-1.019 | | 47.3005 |
| PCB-197 | 3.42e+07 | 0.92 y | 1.07 | 49:25 | 1.020 | 1.015-1.025 | | 46.2723 |
| PCB-200 | 3.26e+07 | 0.91 y | 1.02 | 50:17 | 1.038 | 1.032-1.044 | | 46.4646 |
| PCB-198 | 2.00e+07 | 0.91 y | 0.74 | 51:36 | 1.065 | 1.058-1.068 | | 39.0113 |
| PCB-199 | 2.14e+07 | 0.90 y | 0.73 | 51:42 | 1.067 | 1.060-1.070 | | 42.5819 |
| - PCB-196/203 | 4.34e+07 | 0.93 y | 0.77 | 51:58 | 1.072 | 1.066-1.076 | | 81.6410 |
| - PCB-195 | 2.15e+07 | 0.93 y | 1.20 | 53:08 | 0.984 | 0.979-0.989 | | 56.5346 |
| PCB-194 | 2.00e+07 | 0.88 y | 1.25 | 53:59 | 1.000 | 0.995-1.005 | | 50.6575 |
| PCB-205 | 2.17e+07 | 0.90 y | 1.41 | 54:16 | 1.005 | 1.001-1.011 | | 48.5308 |
| PCB-208 | 2.68e+07 | 1.37 y | 0.96 | 53:16 | 1.000 | 0.995-1.005 | | 50.6369 |
| PCB-207 | 2.46e+07 | 1.34 y | 0.92 | 53:34 | 1.006 | 1.001-1.011 | | 48.8934 |
| PCB-206 | 1.35e+07 | 1.38 y | 1.03 | 55:38 | 1.000 | 0.995-1.005 | | 51.8814 |
| PCB-209 | 1.45e+07 | 1.17 y | 1.18 | 56:59 | 1.000 | 0.995-1.005 | | 49.1679 |

| Name | Resp | RA | RT | RRF | Conc |
|-----------------|----------|--------|-------|------|---------|
| Total Mono-PCB | 3.30e+08 | 2.97 y | 16:18 | 1.22 | 150.318 |
| Total Di-PCB | 2.28e+09 | 1.62 y | 20:17 | 1.21 | 1205.63 |
| Total Tri-PCB | 6.38e+08 | 1.08 y | 24:25 | 1.16 | 457.243 |
| Total Tetra-PCB | 1.02e+09 | 0.99 y | 28:06 | 1.35 | 699.041 |
| Total Penta-PCB | 2.45e+09 | 0.78 y | 28:10 | 1.17 | 1925.09 |
| Total Penta-PCB | 1.95e+09 | 1.61 y | 32:51 | 1.21 | 2041.32 |
| Total Hexa-PCB | 2.26e+08 | 1.60 y | 42:23 | 1.26 | 264.192 |
| Total Hexa-PCB | 5.62e+08 | 1.27 y | 37:15 | 0.92 | 640.925 |
| Total Hepta-PCB | 1.10e+09 | 1.27 y | 42:20 | 1.08 | 1397.78 |
| Total Hepta-PCB | 8.31e+08 | 1.05 y | 43:03 | 1.27 | 1203.06 |
| Total Octa-PCB | 2.54e+08 | 0.91 y | 48:29 | 0.92 | 398.434 |
| Total Octa-PCB | 6.41e+07 | 0.93 y | 53:08 | 1.29 | 157.921 |
| Total Nona-PCB | 6.77e+07 | 1.37 y | 53:16 | 0.96 | 157.920 |
| Total Deca-PCB | 1.45e+07 | 1.17 y | 56:59 | 1.18 | 49.1679 |

Total PCB Conc:10673.7511180

RL: MONO, TRI - DECA: _____

Integrations

by
Analyst: *DMS*

Date: *9/19/14*

Client ID: PCB CS3 14F1901
Lab ID: ST140919E1-1

Filename: 140919E1 S:1 Acq:19-SEP-14 09:33:01
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000

ConCal: ST140919E1-1
EndCAL: ST140919E1-2

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec | CRS vs. RS | Conc | Rec | | | | | | |
|-------------|----------|--------|------|-------|-------|-------------|-----|------|------|-------------|----------|--------|------|-------|-------|-------------|-----|-----|
| 13C-PCB-1 | 1.73e+08 | 3.44 y | 0.89 | 16:17 | 0.623 | 0.622-0.628 | | 107 | 107 | | | | | | | | | |
| 13C-PCB-3 | 1.84e+08 | 3.48 y | 0.93 | 18:54 | 0.724 | 0.721-0.729 | | 109 | 109 | 13C-PCB-79 | 1.27e+08 | 0.82 y | 1.01 | 37:59 | 1.028 | 1.023-1.033 | 104 | 104 |
| 13C-PCB-4 | 1.04e+08 | 1.58 y | 0.55 | 20:15 | 0.775 | 0.772-0.780 | | 104 | 104 | 13C-PCB-178 | 5.11e+07 | 0.46 y | 0.63 | 45:49 | 0.984 | 0.979-0.989 | 125 | 125 |
| 13C-PCB-9 | 1.53e+08 | 1.58 y | 0.83 | 22:02 | 0.843 | 0.840-0.848 | | 102 | 102 | | | | | | | | | |
| 13C-PCB-11 | 1.71e+08 | 1.57 y | 0.94 | 25:25 | 0.973 | 0.968-0.978 | | 101 | 101 | PS vs. IS | | | | | | | | |
| 13C-PCB-19 | 9.47e+07 | 1.11 y | 0.53 | 24:24 | 0.934 | 0.929-0.939 | | 97.8 | 97.8 | | | | | | | | | |
| 13C-PCB-28 | 1.13e+08 | 1.08 y | 0.89 | 29:16 | 1.004 | 0.999-1.009 | | 97.2 | 97.2 | 13C-PCB-79 | 1.27e+08 | 0.82 y | 1.20 | 37:59 | 0.969 | 0.963-0.973 | 109 | 109 |
| 13C-PCB-32 | 1.33e+08 | 1.11 y | 0.81 | 27:19 | 1.046 | 1.041-1.051 | | 89.9 | 89.9 | 13C-PCB-178 | 5.11e+07 | 0.46 y | 0.94 | 45:49 | 0.925 | 0.920-0.930 | 130 | 130 |
| 13C-PCB-37 | 9.92e+07 | 1.10 y | 0.83 | 33:09 | 1.136 | 1.131-1.143 | | 91.3 | 91.3 | | | | | | | | | |
| 13C-PCB-47 | 1.05e+08 | 0.80 y | 0.74 | 32:11 | 0.871 | 0.867-0.875 | | 116 | 116 | | | | | | | | | |
| 13C-PCB-52 | 1.00e+08 | 0.81 y | 0.71 | 31:41 | 0.858 | 0.853-0.861 | | 116 | 116 | | | | | | | | | |
| 13C-PCB-54 | 1.32e+08 | 0.82 y | 0.85 | 28:09 | 0.762 | 0.758-0.766 | | 127 | 127 | | | | | | | | | |
| 13C-PCB-70 | 1.16e+08 | 0.80 y | 0.94 | 35:42 | 0.966 | 0.961-0.971 | | 101 | 101 | | | | | | | | | |
| 13C-PCB-77 | 9.87e+07 | 0.82 y | 0.89 | 39:49 | 1.078 | 1.073-1.083 | | 90.8 | 90.8 | | | | | | | | | |
| 13C-PCB-80 | 1.18e+08 | 0.81 y | 0.96 | 36:07 | 0.977 | 0.972-0.982 | | 101 | 101 | | | | | | | | | |
| 13C-PCB-81 | 9.71e+07 | 0.80 y | 0.84 | 39:13 | 1.062 | 1.057-1.067 | | 95.1 | 95.1 | | | | | | | | | |
| 13C-PCB-95 | 7.44e+07 | 1.59 y | 0.74 | 36:00 | 0.914 | 0.908-0.918 | | 107 | 107 | RS | | | | | | | | |
| 13C-PCB-97 | 6.59e+07 | 1.57 y | 0.69 | 38:59 | 0.989 | 0.984-0.994 | | 102 | 102 | | | | | | | | | |
| 13C-PCB-101 | 7.71e+07 | 1.58 y | 0.79 | 37:41 | 0.956 | 0.951-0.961 | | 105 | 105 | | | | | | | | | |
| 13C-PCB-104 | 1.06e+08 | 1.59 y | 1.00 | 32:50 | 0.833 | 0.829-0.837 | | 113 | 113 | 13C-PCB-15 | 1.82e+08 | 1.55 y | 1.00 | 26:07 | | 100 | | |
| 13C-PCB-105 | 7.02e+07 | 1.68 y | 1.24 | 43:15 | 0.929 | 0.924-0.934 | | 87.3 | 87.3 | 13C-PCB-31 | 1.31e+08 | 1.09 y | 1.00 | 29:10 | | 100 | | |
| 13C-PCB-114 | 7.05e+07 | 1.68 y | 1.21 | 42:23 | 0.911 | 0.905-0.915 | | 90.0 | 90.0 | 13C-PCB-60 | 1.22e+08 | 0.82 y | 1.00 | 36:57 | | 100 | | |
| 13C-PCB-118 | 8.29e+07 | 1.60 y | 0.98 | 41:43 | 1.059 | 1.054-1.064 | | 90.0 | 90.0 | 13C-PCB-111 | 9.36e+07 | 1.61 y | 1.00 | 39:25 | | 100 | | |
| 13C-PCB-123 | 7.78e+07 | 1.60 y | 0.95 | 41:33 | 1.054 | 1.049-1.059 | | 87.5 | 87.5 | 13C-PCB-128 | 6.49e+07 | 1.30 y | 1.00 | 46:33 | | 100 | | |
| 13C-PCB-126 | 5.74e+07 | 1.68 y | 1.16 | 45:29 | 0.977 | 0.972-0.982 | | 76.0 | 76.0 | 13C-PCB-205 | 3.80e+07 | 0.91 y | 1.00 | 54:15 | | 100 | | |
| 13C-PCB-127 | 7.18e+07 | 1.63 y | 1.34 | 43:35 | 0.936 | 0.931-0.941 | | 82.3 | 82.3 | | | | | | | | | |
| 13C-PCB-138 | 6.94e+07 | 1.29 y | 1.04 | 44:59 | 0.966 | 0.961-0.971 | | 102 | 102 | | | | | | | | | |
| 13C-PCB-141 | 7.50e+07 | 1.32 y | 1.07 | 44:08 | 0.948 | 0.943-0.953 | | 108 | 108 | | | | | | | | | |
| 13C-PCB-153 | 7.52e+07 | 1.31 y | 1.11 | 43:23 | 0.932 | 0.927-0.937 | | 104 | 104 | | | | | | | | | |
| 13C-PCB-155 | 9.52e+07 | 1.28 y | 0.83 | 37:13 | 0.945 | 0.939-0.949 | | 122 | 122 | | | | | | | | | |
| 13C-PCB-156 | 6.67e+07 | 1.27 y | 1.24 | 48:15 | 1.037 | 1.032-1.042 | | 82.5 | 82.5 | | | | | | | | | |
| 13C-PCB-157 | 7.37e+07 | 1.32 y | 1.31 | 48:31 | 1.042 | 1.037-1.047 | | 86.6 | 86.6 | | | | | | | | | |
| 13C-PCB-159 | 7.12e+07 | 1.30 y | 1.20 | 46:16 | 0.994 | 0.989-0.999 | | 91.5 | 91.5 | | | | | | | | | |
| 13C-PCB-167 | 7.66e+07 | 1.30 y | 1.32 | 46:57 | 1.009 | 1.004-1.014 | | 89.3 | 89.3 | | | | | | | | | |
| 13C-PCB-169 | 5.65e+07 | 1.29 y | 1.22 | 50:38 | 1.088 | 1.082-1.092 | | 71.7 | 71.7 | | | | | | | | | |
| 13C-PCB-170 | 3.25e+07 | 0.46 y | 0.54 | 51:00 | 1.096 | 1.089-1.101 | | 93.4 | 93.4 | | | | | | | | | |
| 13C-PCB-180 | 4.21e+07 | 0.47 y | 0.67 | 49:32 | 1.064 | 1.059-1.069 | | 96.2 | 96.2 | | | | | | | | | |
| 13C-PCB-188 | 7.41e+07 | 0.45 y | 0.94 | 43:01 | 0.924 | 0.919-0.929 | | 122 | 122 | | | | | | | | | |
| 13C-PCB-189 | 3.48e+07 | 0.46 y | 0.72 | 52:28 | 1.127 | 1.120-1.132 | | 74.9 | 74.9 | | | | | | | | | |
| 13C-PCB-194 | 3.17e+07 | 0.93 y | 0.81 | 53:58 | 0.995 | 0.990-1.000 | | 103 | 103 | | | | | | | | | |
| 13C-PCB-202 | 6.88e+07 | 0.91 y | 0.83 | 48:27 | 1.041 | 1.036-1.046 | | 127 | 127 | | | | | | | | | |
| 13C-PCB-206 | 2.53e+07 | 0.79 y | 0.66 | 55:38 | 1.025 | 1.021-1.031 | | 101 | 101 | | | | | | | | | |
| 13C-PCB-208 | 5.49e+07 | 0.77 y | 1.12 | 53:15 | 0.982 | 0.976-0.986 | | 129 | 129 | | | | | | | | | |
| 13C-PCB-209 | 2.51e+07 | 1.17 y | 0.61 | 56:59 | 1.050 | 1.044-1.054 | | 107 | 107 | | | | | | | | | |

Analyst: DMS

Date: 9/19/14

Vista Analytical Laboratory - Injection Log Run file: 140919E1 Instrument ID: VG-8 GC Column ID: ZB-1

| Data file | S# | Sample ID | Analyst | Acq date | Acq time | CCal | ECal |
|-----------|----|---------------|---------|-----------|----------|--------------|--------------|
| 140919E1 | 1 | ST140919E1-1 | DMS | 19-SEP-14 | 09:33:01 | ST140919E1-1 | ST140919E1-2 |
| 140919E1 | 2 | B4I0047-BS1 | DMS | 19-SEP-14 | 10:37:25 | ST140919E1-1 | NA |
| 140919E1 | 3 | B4I0036-BS1 | DMS | 19-SEP-14 | 11:41:49 | ST140919E1-1 | ST140919E1-2 |
| 140919E1 | 4 | SOLVENT BLANK | DMS | 19-SEP-14 | 12:46:13 | NA | NA |
| 140919E1 | 5 | B4I0047-BLK1 | DMS | 19-SEP-14 | 13:50:37 | ST140919E1-1 | NA |
| 140919E1 | 6 | B4I0036-BLK1 | DMS | 19-SEP-14 | 14:55:00 | ST140919E1-1 | ST140919E1-2 |
| 140919E1 | 7 | 1400659-01 | DMS | 19-SEP-14 | 15:59:24 | ST140919E1-1 | NA |
| 140919E1 | 8 | 1400659-02 | DMS | 19-SEP-14 | 17:03:47 | ST140919E1-1 | NA |
| 140919E1 | 9 | 1400646-01 | DMS | 19-SEP-14 | 18:08:11 | ST140919E1-1 | ST140919E1-2 |
| 140919E1 | 10 | 1400646-02 | DMS | 19-SEP-14 | 19:12:33 | ST140919E1-1 | ST140919E1-2 |
| 140919E1 | 11 | 1400646-03 | DMS | 19-SEP-14 | 20:16:56 | ST140919E1-1 | ST140919E1-2 |
| 140919E1 | 12 | SOLVENT BLANK | DMS | 19-SEP-14 | 21:21:21 | NA | NA |
| 140919E1 | 13 | ST140919E1-2 | DMS | 19-SEP-14 | 22:25:46 | ST140919E1-1 | ST140919E1-2 |

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST140919E1-1

End Calibration ID: ST140919E1-2

| | <u>Beg.</u> | <u>End</u> |
|---|---|---|
| Ion abundance within QC limits? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Concentration within range? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| First and last eluters present? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Retention Times within criteria? | <input checked="" type="checkbox"/> <i>Dms 9/22/14</i> | <input checked="" type="checkbox"/> <i>Dms 9/22/14</i> |
| Verification Std. named correctly? (ST-Year-Month-Day-VG ID) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Forms signed and dated? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Correct ICAL referenced? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Run Log: | | |
| -Data file matches Conc Cal ID? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| -Correct instrument listed? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| -Samples within 12-hour clock? | <input checked="" type="checkbox"/> <i>(y)</i> | <input type="checkbox"/> <i>n</i> |

| | <u>Beg.</u> | <u>End</u> |
|--|--|--|
| Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| TCDD/TCDF valleys < 25%? | <input checked="" type="checkbox"/> <i>NA</i> | <input checked="" type="checkbox"/> <i>NA</i> |
| Peaks integrated correctly? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Manual integrations included? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8280 CS1 Ending Standard | | |
| -Ratios within limits | | <input checked="" type="checkbox"/> <i>NA</i> |
| -S/N > 2.5:1 | | <input checked="" type="checkbox"/> |
| -CS1 within 12-hour clock | | <input checked="" type="checkbox"/> |

Comments: ** OK'D by WJL. Dms 9/22/14*

Reviewed by: *WJL 9/22/14*
Initials & Date

* Ending standard criteria applicable to 8290 only.

Lab Name: Vista Analytical Laboratory Lab ID: ST140919E2-1 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140919E2 S#1 Analysis Date: 19-SEP-14 Time: 23:43:03

| 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 | 3.09 | 2.66-3.60 | y | 40.0 | 37.5-62.5 | PCB-52/69 | 0.82 | 0.65-0.89 | y | 100.5 | 75.0-125 |
| PCB-2 | 3.13 | 2.66-3.60 | y | 39.7 | 37.5-62.5 | PCB-73 | 0.83 | 0.65-0.89 | y | 48.2 | 37.5-62.5 |
| PCB-3 | 3.07 | 2.66-3.60 | y | 39.2 | 37.5-62.5 | PCB-43/49 | 0.83 | 0.65-0.89 | y | 96.3 | 75.0-125 |
| PCB-4/10 | 1.63 | 1.33-1.79 | y | 201.9 | 150-250 | PCB-47 | 0.96 | 0.65-0.89 | n | 42.5 | 37.5-62.5 |
| PCB-7/9 | 1.65 | 1.33-1.79 | y | 203.6 | 150-250 | PCB-48/75 | 0.77 | 0.65-0.89 | y | 100.6 | 75.0-125 |
| PCB-6 | 1.66 | 1.33-1.79 | y | 97.5 | 75.0-125 | PCB-65 | 0.81 | 0.65-0.89 | y | 48.8 | 37.5-62.5 |
| PCB-5/8 | 1.64 | 1.33-1.79 | y | 204.7 | 150-250 | PCB-62 | 0.84 | 0.65-0.89 | y | 50.2 | 37.5-62.5 |
| PCB-14 | 1.65 | 1.33-1.79 | y | 103.8 | 75.0-125 | PCB-44 | 0.81 | 0.65-0.89 | y | 49.7 | 37.5-62.5 |
| PCB-11 | 1.66 | 1.33-1.79 | y | 102.3 | 75.0-125 | PCB-42/59 | 0.81 | 0.65-0.89 | y | 99.3 | 75.0-125 |
| PCB-12/13 | 1.65 | 1.33-1.79 | y | 202.8 | 150-250 | PCB-41/64/71/72 | 0.82 | 0.65-0.89 | y | 197.3 | 150-250 |
| PCB-15 | 1.67 | 1.33-1.79 | y | 100.3 | 75.0-125 | PCB-68 | 0.82 | 0.65-0.89 | y | 50.9 | 37.5-62.5 |
| PCB-19 | 1.10 | 0.88-1.20 | y | 46.4 | 37.5-62.5 | PCB-40 | 0.82 | 0.65-0.89 | y | 51.9 | 37.5-62.5 |
| PCB-30 | 1.09 | 0.88-1.20 | y | 47.0 | 37.5-62.5 | PCB-57 | 0.82 | 0.65-0.89 | y | 50.0 | 37.5-62.5 |
| PCB-18 | 1.08 | 0.88-1.20 | y | 47.3 | 37.5-62.5 | PCB-67 | 0.82 | 0.65-0.89 | y | 47.5 | 37.5-62.5 |
| PCB-17 | 1.09 | 0.88-1.20 | y | 46.8 | 37.5-62.5 | PCB-58 | 0.83 | 0.65-0.89 | y | 50.8 | 37.5-62.5 |
| PCB-24/27 | 1.09 | 0.88-1.20 | y | 94.0 | 75.0-125 | PCB-63 | 0.83 | 0.65-0.89 | y | 49.5 | 37.5-62.5 |
| PCB-16/32 | 1.10 | 0.88-1.20 | y | 93.3 | 75.0-125 | PCB-74 | 0.81 | 0.65-0.89 | y | 48.7 | 37.5-62.5 |
| PCB-34 | 1.06 | 0.88-1.20 | y | 57.5 | 37.5-62.5 | PCB-61/70 | 0.83 | 0.65-0.89 | y | 102.2 | 75.0-125 |
| PCB-23 | 1.07 | 0.88-1.20 | y | 48.9 | 37.5-62.5 | PCB-76/66 | 0.82 | 0.65-0.89 | y | 97.7 | 75.0-125 |
| PCB-29 | 1.06 | 0.88-1.20 | y | 53.1 | 37.5-62.5 | PCB-80 | 0.83 | 0.65-0.89 | y | 49.5 | 37.5-62.5 |
| PCB-26 | 1.09 | 0.88-1.20 | y | 52.0 | 37.5-62.5 | PCB-55 | 0.83 | 0.65-0.89 | y | 48.5 | 37.5-62.5 |
| PCB-25 | 1.05 | 0.88-1.20 | y | 53.4 | 37.5-62.5 | PCB-56/60 | 0.82 | 0.65-0.89 | y | 99.8 | 75.0-125 |
| PCB-31 | 1.05 | 0.88-1.20 | y | 49.8 | 37.5-62.5 | PCB-79 | 0.82 | 0.65-0.89 | y | 49.8 | 37.5-62.5 |
| PCB-28 | 1.06 | 0.88-1.20 | y | 52.6 | 37.5-62.5 | PCB-78 | 0.82 | 0.65-0.89 | y | 47.6 | 37.5-62.5 |
| PCB-20/21/33 | 1.07 | 0.88-1.20 | y | 158.7 | 112.5-225 | PCB-81 | 0.82 | 0.65-0.89 | y | 46.9 | 37.5-62.5 |
| PCB-22 | 1.06 | 0.88-1.20 | y | 53.7 | 37.5-62.5 | PCB-77 | 0.86 | 0.65-0.89 | y | 50.2 | 37.5-62.5 |
| PCB-36 | 1.06 | 0.88-1.20 | y | 55.4 | 37.5-62.5 | PCB-104 | 1.63 | 1.32-1.78 | y | 51.4 | 37.5-62.5 |
| PCB-39 | 1.05 | 0.88-1.20 | y | 55.2 | 37.5-62.5 | PCB-96 | 1.65 | 1.32-1.78 | y | 51.2 | 37.5-62.5 |
| PCB-38 | 1.07 | 0.88-1.20 | y | 52.2 | 37.5-62.5 | PCB-103 | 1.61 | 1.32-1.78 | y | 51.9 | 37.5-62.5 |
| PCB-35 | 1.07 | 0.88-1.20 | y | 58.2 | 37.5-62.5 | PCB-100 | 1.65 | 1.32-1.78 | y | 53.3 | 37.5-62.5 |
| PCB-37 | 1.06 | 0.88-1.20 | y | 53.6 | 37.5-62.5 | PCB-94 | 1.65 | 1.32-1.78 | y | 50.0 | 37.5-62.5 |
| PCB-54 | 0.81 | 0.65-0.89 | y | 47.4 | 37.5-62.5 | PCB-95/98/102 | 1.63 | 1.32-1.78 | y | 150.6 | 112.5-225 |
| PCB-50 | 0.81 | 0.65-0.89 | y | 49.8 | 37.5-62.5 | PCB-93 | 1.74 | 1.32-1.78 | y | 57.2 | 37.5-62.5 |
| PCB-53 | 0.83 | 0.65-0.89 | y | 47.7 | 37.5-62.5 | PCB-88/91 | 1.62 | 1.32-1.78 | y | 100.0 | 75.0-125 |
| PCB-51 | 0.81 | 0.65-0.89 | y | 48.4 | 37.5-62.5 | PCB-121 | 1.66 | 1.32-1.78 | y | 57.6 | 37.5-62.5 |
| PCB-45 | 0.82 | 0.65-0.89 | y | 50.2 | 37.5-62.5 | | | | | | |
| PCB-46 | 0.82 | 0.65-0.89 | y | 48.5 | 37.5-62.5 | | | | | | |

Analyst: DMS

Date: 9/22/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140919E2-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140919E2 S#1 Analysis Date: 19-SEP-14 Time: 23:43:03

| ANALYTES | ION | QC | PASS | CONC. | CONC. | ANALYTES | ION | QC | PASS | CONC. | CONC. |
|--------------|--------|-----------|------|-------|-----------|-----------------|--------|-----------|------|-------|-----------|
| | ABUND. | LIMITS | | RANGE | | | ABUND. | LIMITS | | RANGE | |
| | RATIO | | | FOUND | (ng/mL) | | RATIO | | | FOUND | (ng/mL) |
| PCB-1 | 3.09 | 2.66-3.60 | y | 40.0 | 37.5-62.5 | PCB-52/69 | 0.82 | 0.65-0.89 | y | 100.5 | 75.0-125 |
| PCB-2 | 3.13 | 2.66-3.60 | y | 39.7 | 37.5-62.5 | PCB-73 | 0.83 | 0.65-0.89 | y | 48.2 | 37.5-62.5 |
| PCB-3 | 3.07 | 2.66-3.60 | y | 39.2 | 37.5-62.5 | PCB-43/49 | 0.83 | 0.65-0.89 | y | 96.3 | 75.0-125 |
| PCB-4/10 | 1.63 | 1.33-1.79 | y | 201.9 | 150-250 | PCB-47 | 0.96 | 0.65-0.89 | n | 42.5 | 37.5-62.5 |
| PCB-7/9 | 1.65 | 1.33-1.79 | y | 203.6 | 150-250 | PCB-48/75 | 0.77 | 0.65-0.89 | y | 100.6 | 75.0-125 |
| PCB-6 | 1.66 | 1.33-1.79 | y | 97.5 | 75.0-125 | PCB-65 | 0.81 | 0.65-0.89 | y | 48.8 | 37.5-62.5 |
| PCB-5/8 | 1.64 | 1.33-1.79 | y | 204.7 | 150-250 | PCB-62 | 0.84 | 0.65-0.89 | y | 50.2 | 37.5-62.5 |
| PCB-14 | 1.65 | 1.33-1.79 | y | 103.8 | 75.0-125 | PCB-44 | 0.81 | 0.65-0.89 | y | 49.7 | 37.5-62.5 |
| PCB-11 | 1.66 | 1.33-1.79 | y | 102.3 | 75.0-125 | PCB-42/59 | 0.81 | 0.65-0.89 | y | 99.3 | 75.0-125 |
| PCB-12/13 | 1.65 | 1.33-1.79 | y | 202.8 | 150-250 | PCB-41/64/71/72 | 0.82 | 0.65-0.89 | y | 197.3 | 150-250 |
| PCB-15 | 1.67 | 1.33-1.79 | y | 100.3 | 75.0-125 | PCB-68 | 0.82 | 0.65-0.89 | y | 50.9 | 37.5-62.5 |
| PCB-19 | 1.10 | 0.88-1.20 | y | 46.4 | 37.5-62.5 | PCB-40 | 0.82 | 0.65-0.89 | y | 51.9 | 37.5-62.5 |
| PCB-30 | 1.09 | 0.88-1.20 | y | 47.0 | 37.5-62.5 | PCB-57 | 0.82 | 0.65-0.89 | y | 50.0 | 37.5-62.5 |
| PCB-18 | 1.08 | 0.88-1.20 | y | 47.3 | 37.5-62.5 | PCB-67 | 0.82 | 0.65-0.89 | y | 47.5 | 37.5-62.5 |
| PCB-17 | 1.09 | 0.88-1.20 | y | 46.8 | 37.5-62.5 | PCB-58 | 0.83 | 0.65-0.89 | y | 50.8 | 37.5-62.5 |
| PCB-24/27 | 1.09 | 0.88-1.20 | y | 94.0 | 75.0-125 | PCB-63 | 0.83 | 0.65-0.89 | y | 49.5 | 37.5-62.5 |
| PCB-16/32 | 1.10 | 0.88-1.20 | y | 93.3 | 75.0-125 | PCB-74 | 0.81 | 0.65-0.89 | y | 48.7 | 37.5-62.5 |
| PCB-34 | 1.06 | 0.88-1.20 | y | 57.5 | 37.5-62.5 | PCB-61/70 | 0.83 | 0.65-0.89 | y | 102.2 | 75.0-125 |
| PCB-23 | 1.07 | 0.88-1.20 | y | 48.9 | 37.5-62.5 | PCB-76/66 | 0.82 | 0.65-0.89 | y | 97.7 | 75.0-125 |
| PCB-29 | 1.06 | 0.88-1.20 | y | 53.1 | 37.5-62.5 | PCB-80 | 0.83 | 0.65-0.89 | y | 49.5 | 37.5-62.5 |
| PCB-26 | 1.09 | 0.88-1.20 | y | 52.0 | 37.5-62.5 | PCB-55 | 0.83 | 0.65-0.89 | y | 48.5 | 37.5-62.5 |
| PCB-25 | 1.05 | 0.88-1.20 | y | 53.4 | 37.5-62.5 | PCB-56/60 | 0.82 | 0.65-0.89 | y | 99.8 | 75.0-125 |
| PCB-31 | 1.05 | 0.88-1.20 | y | 49.8 | 37.5-62.5 | PCB-79 | 0.82 | 0.65-0.89 | y | 49.8 | 37.5-62.5 |
| PCB-28 | 1.06 | 0.88-1.20 | y | 52.6 | 37.5-62.5 | PCB-78 | 0.82 | 0.65-0.89 | y | 47.6 | 37.5-62.5 |
| PCB-20/21/33 | 1.07 | 0.88-1.20 | y | 158.7 | 112.5-225 | PCB-81 | 0.82 | 0.65-0.89 | y | 46.9 | 37.5-62.5 |
| PCB-22 | 1.06 | 0.88-1.20 | y | 53.7 | 37.5-62.5 | PCB-77 | 0.86 | 0.65-0.89 | y | 50.2 | 37.5-62.5 |
| PCB-36 | 1.06 | 0.88-1.20 | y | 55.4 | 37.5-62.5 | PCB-104 | 1.63 | 1.32-1.78 | y | 51.4 | 37.5-62.5 |
| PCB-39 | 1.05 | 0.88-1.20 | y | 55.2 | 37.5-62.5 | PCB-96 | 1.65 | 1.32-1.78 | y | 51.2 | 37.5-62.5 |
| PCB-38 | 1.07 | 0.88-1.20 | y | 52.2 | 37.5-62.5 | PCB-103 | 1.61 | 1.32-1.78 | y | 51.9 | 37.5-62.5 |
| PCB-35 | 1.07 | 0.88-1.20 | y | 58.2 | 37.5-62.5 | PCB-100 | 1.65 | 1.32-1.78 | y | 53.3 | 37.5-62.5 |
| PCB-37 | 1.06 | 0.88-1.20 | y | 53.6 | 37.5-62.5 | PCB-94 | 1.65 | 1.32-1.78 | y | 50.0 | 37.5-62.5 |
| PCB-54 | 0.81 | 0.65-0.89 | y | 47.4 | 37.5-62.5 | PCB-95/98/102 | 1.63 | 1.32-1.78 | y | 150.6 | 112.5-225 |
| PCB-50 | 0.81 | 0.65-0.89 | y | 49.8 | 37.5-62.5 | PCB-93 | 1.74 | 1.32-1.78 | y | 57.2 | 37.5-62.5 |
| PCB-53 | 0.83 | 0.65-0.89 | y | 47.7 | 37.5-62.5 | PCB-88/91 | 1.62 | 1.32-1.78 | y | 100.0 | 75.0-125 |
| PCB-51 | 0.81 | 0.65-0.89 | y | 48.4 | 37.5-62.5 | PCB-121 | 1.66 | 1.32-1.78 | y | 57.6 | 37.5-62.5 |
| PCB-45 | 0.82 | 0.65-0.89 | y | 50.2 | 37.5-62.5 | | | | | | |
| PCB-46 | 0.82 | 0.65-0.89 | y | 48.5 | 37.5-62.5 | | | | | | |

Analyst: DMS

Date: 9/22/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140919E2-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140919E2 S#1 Analysis Date: 19-SEP-14 Time: 23:43:03

| 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 | 1.64 | 1.32-1.78 | y | 102.3 | 75.0-125 | PCB-140 | 1.30 | 1.05-1.43 | y | 54.8 | 37.5-62.5 |
| PCB-89 | 1.65 | 1.32-1.78 | y | 51.4 | 37.5-62.5 | PCB-134/143 | 1.29 | 1.05-1.43 | y | 93.1 | 75.0-125 |
| PCB-90/101 | 1.64 | 1.32-1.78 | y | 103.4 | 75.0-125 | PCB-133/142 | 1.30 | 1.05-1.43 | y | 93.7 | 75.0-125 |
| PCB-113 | 1.64 | 1.32-1.78 | y | 50.9 | 37.5-62.5 | PCB-131 | 1.31 | 1.05-1.43 | y | 46.4 | 37.5-62.5 |
| PCB-99 | 1.67 | 1.32-1.78 | y | 53.7 | 37.5-62.5 | PCB-146/165 | 1.30 | 1.05-1.43 | y | 91.3 | 75.0-125 |
| PCB-119 | 1.64 | 1.32-1.78 | y | 50.9 | 37.5-62.5 | PCB-132/161 | 1.35 | 1.05-1.43 | y | 91.4 | 75.0-125 |
| PCB-108/112 | 1.66 | 1.32-1.78 | y | 99.0 | 75.0-125 | PCB-153 | 1.22 | 1.05-1.43 | y | 45.5 | 37.5-62.5 |
| PCB-83 | 1.66 | 1.32-1.78 | y | 48.6 | 37.5-62.5 | PCB-168 | 1.29 | 1.05-1.43 | y | 46.5 | 37.5-62.5 |
| PCB-97 | 1.65 | 1.32-1.78 | y | 49.6 | 37.5-62.5 | PCB-141 | 1.28 | 1.05-1.43 | y | 46.5 | 37.5-62.5 |
| PCB-86 | 1.64 | 1.32-1.78 | y | 59.2 | 37.5-62.5 | PCB-137 | 1.26 | 1.05-1.43 | y | 48.4 | 37.5-62.5 |
| PCB-87/117/125 | 1.63 | 1.32-1.78 | y | 148.7 | 112.5-225 | PCB-130 | 1.32 | 1.05-1.43 | y | 45.5 | 37.5-62.5 |
| PCB-111/115 | 1.63 | 1.32-1.78 | y | 96.1 | 75.0-125 | PCB-138/163/164 | 1.29 | 1.05-1.43 | y | 137.8 | 112.5-225 |
| PCB-85/116 | 1.64 | 1.32-1.78 | y | 104.4 | 75.0-125 | PCB-158/160 | 1.28 | 1.05-1.43 | y | 94.9 | 75.0-125 |
| PCB-120 | 1.65 | 1.32-1.78 | y | 51.0 | 37.5-62.5 | PCB-129 | 1.30 | 1.05-1.43 | y | 48.2 | 37.5-62.5 |
| PCB-110 | 1.64 | 1.32-1.78 | y | 50.3 | 37.5-62.5 | PCB-166 | 1.30 | 1.05-1.43 | y | 46.3 | 37.5-62.5 |
| PCB-82 | 1.64 | 1.32-1.78 | y | 52.3 | 37.5-62.5 | PCB-159 | 1.28 | 1.05-1.43 | y | 46.1 | 37.5-62.5 |
| PCB-124 | 1.64 | 1.32-1.78 | y | 52.9 | 37.5-62.5 | PCB-128/162 | 1.28 | 1.05-1.43 | y | 92.2 | 75.0-125 |
| PCB-107/109 | 1.65 | 1.32-1.78 | y | 97.9 | 75.0-125 | PCB-167 | 1.29 | 1.05-1.43 | y | 47.1 | 37.5-62.5 |
| PCB-123 | 1.63 | 1.32-1.78 | y | 51.3 | 37.5-62.5 | PCB-156 | 1.30 | 1.05-1.43 | y | 47.3 | 37.5-62.5 |
| PCB-106/118 | 1.64 | 1.32-1.78 | y | 103.2 | 75.0-125 | PCB-157 | 1.30 | 1.05-1.43 | y | 45.8 | 37.5-62.5 |
| PCB-114 | 1.61 | 1.32-1.78 | y | 50.6 | 37.5-62.5 | PCB-169 | 1.29 | 1.05-1.43 | y | 45.7 | 37.5-62.5 |
| PCB-122 | 1.61 | 1.32-1.78 | y | 51.9 | 37.5-62.5 | PCB-188 | 1.07 | 0.89-1.21 | y | 48.5 | 37.5-62.5 |
| PCB-105 | 1.62 | 1.32-1.78 | y | 49.8 | 37.5-62.5 | PCB-184 | 1.08 | 0.89-1.21 | y | 49.2 | 37.5-62.5 |
| PCB-127 | 1.64 | 1.32-1.78 | y | 50.0 | 37.5-62.5 | PCB-179 | 1.07 | 0.89-1.21 | y | 49.6 | 37.5-62.5 |
| PCB-126 | 1.63 | 1.32-1.78 | y | 51.2 | 37.5-62.5 | PCB-176 | 1.07 | 0.89-1.21 | y | 48.8 | 37.5-62.5 |
| PCB-155 | 1.31 | 1.05-1.43 | y | 48.2 | 37.5-62.5 | PCB-186 | 1.08 | 0.89-1.21 | y | 50.1 | 37.5-62.5 |
| PCB-150 | 1.30 | 1.05-1.43 | y | 50.0 | 37.5-62.5 | PCB-178 | 1.06 | 0.89-1.21 | y | 50.9 | 37.5-62.5 |
| PCB-152 | 1.32 | 1.05-1.43 | y | 48.3 | 37.5-62.5 | PCB-175 | 1.09 | 0.89-1.21 | y | 52.3 | 37.5-62.5 |
| PCB-145 | 1.30 | 1.05-1.43 | y | 49.1 | 37.5-62.5 | PCB-182/187 | 1.07 | 0.89-1.21 | y | 101.4 | 75.0-125 |
| PCB-136 | 1.31 | 1.05-1.43 | y | 53.1 | 37.5-62.5 | PCB-183 | 1.07 | 0.89-1.21 | y | 50.9 | 37.5-62.5 |
| PCB-148 | 1.33 | 1.05-1.43 | y | 45.6 | 37.5-62.5 | PCB-185 | 1.08 | 0.89-1.21 | y | 46.7 | 37.5-62.5 |
| PCB-154 | 1.29 | 1.05-1.43 | y | 53.1 | 37.5-62.5 | PCB-174 | 1.07 | 0.89-1.21 | y | 48.5 | 37.5-62.5 |
| PCB-151 | 1.31 | 1.05-1.43 | y | 51.6 | 37.5-62.5 | PCB-181 | 1.07 | 0.89-1.21 | y | 49.6 | 37.5-62.5 |
| PCB-135 | 1.28 | 1.05-1.43 | y | 52.7 | 37.5-62.5 | PCB-177 | 1.07 | 0.89-1.21 | y | 48.5 | 37.5-62.5 |
| PCB-144 | 1.29 | 1.05-1.43 | y | 51.9 | 37.5-62.5 | PCB-171 | 1.06 | 0.89-1.21 | y | 47.6 | 37.5-62.5 |
| PCB-147 | 1.32 | 1.05-1.43 | y | 53.8 | 37.5-62.5 | PCB-173 | 1.09 | 0.89-1.21 | y | 49.8 | 37.5-62.5 |
| PCB-139/149 | 1.31 | 1.05-1.43 | y | 105.8 | 75.0-125 | PCB-172 | 1.08 | 0.89-1.21 | y | 50.1 | 37.5-62.5 |

Analyst: *DMS*

Date: *9/22/14*

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140919E2-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140919E2 #1 Analysis Date: 19-SEP-14 Time: 23:43:03

| ANALYTES | ION | QC | PASS | CONC. | CONC. |
|-------------|--------|-----------|------|-------|-----------|
| | ABUND. | LIMITS | | FOUND | RANGE |
| | RATIO | | | | (ng/mL) |
| PCB-192 | 1.07 | 0.89-1.21 | Y | 50.1 | 37.5-62.5 |
| PCB-180 | 1.07 | 0.89-1.21 | Y | 49.2 | 37.5-62.5 |
| PCB-193 | 1.08 | 0.89-1.21 | Y | 48.3 | 37.5-62.5 |
| PCB-191 | 1.07 | 0.89-1.21 | Y | 48.6 | 37.5-62.5 |
| PCB-170 | 1.06 | 0.89-1.21 | Y | 49.1 | 37.5-62.5 |
| PCB-190 | 1.07 | 0.89-1.21 | Y | 47.8 | 37.5-62.5 |
| PCB-189 | 1.07 | 0.89-1.21 | Y | 48.4 | 37.5-62.5 |
| PCB-202 | 0.93 | 0.76-1.02 | Y | 47.8 | 37.5-62.5 |
| PCB-201 | 0.93 | 0.76-1.02 | Y | 48.8 | 37.5-62.5 |
| PCB-204 | 0.93 | 0.76-1.02 | Y | 49.4 | 37.5-62.5 |
| PCB-197 | 0.92 | 0.76-1.02 | Y | 48.9 | 37.5-62.5 |
| PCB-200 | 0.92 | 0.76-1.02 | Y | 49.4 | 37.5-62.5 |
| PCB-198 | 0.91 | 0.76-1.02 | Y | 52.7 | 37.5-62.5 |
| PCB-199 | 0.94 | 0.76-1.02 | Y | 51.8 | 37.5-62.5 |
| PCB-196/203 | 0.92 | 0.76-1.02 | Y | 105.7 | 75.0-125 |
| PCB-195 | 0.93 | 0.76-1.02 | Y | 48.2 | 37.5-62.5 |
| PCB-194 | 0.92 | 0.76-1.02 | Y | 48.2 | 37.5-62.5 |
| PCB-205 | 0.93 | 0.76-1.02 | Y | 47.1 | 37.5-62.5 |
| PCB-208 | 1.39 | 1.14-1.54 | Y | 49.9 | 37.5-62.5 |
| PCB-207 | 1.38 | 1.14-1.54 | Y | 50.5 | 37.5-62.5 |
| PCB-206 | 1.37 | 1.14-1.54 | Y | 49.8 | 37.5-62.5 |
| PCB-209 | 1.19 | 0.99-1.33 | Y | 49.5 | 37.5-62.5 |

Analyst: DMS

Date: 9/22/14

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140919E2-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140919E2 S#1 Analysis Date: 19-SEP-14 Time: 23:43:03

| LABELED IS | ION | | | CONC. | | LABELED IS | ION | | | CONC. | |
|-------------|--------------|-----------|------|-------------|---------------|-------------|--------------|-----------|------|-------------|---------------|
| | ABUND. RATIO | QC LIMITS | PASS | CONC. FOUND | RANGE (ng/mL) | | ABUND. RATIO | QC LIMITS | PASS | CONC. FOUND | RANGE (ng/mL) |
| 13C-PCB-1 | 3.42 | 2.66-3.60 | Y | 135.0 | 50.0-145 | 13C-PCB-169 | 1.30 | 1.05-1.43 | y | 102.8 | 50 - 145 |
| 13C-PCB-3 | 3.46 | 2.66-3.60 | Y | 136.6 | 50.0-145 | 13C-PCB-188 | 0.46 | 0.38-0.52 | y | 98.5 | 50 - 145 |
| 13C-PCB-4 | 1.58 | 1.33-1.79 | Y | 96.5 | 50.0-145 | 13C-PCB-180 | 0.47 | 0.38-0.52 | y | 110.0 | 50 - 145 |
| 13C-PCB-9 | 1.60 | 1.33-1.79 | Y | 97.3 | 50.0-145 | 13C-PCB-170 | 0.46 | 0.38-0.52 | y | 114.8 | 50 - 145 |
| 13C-PCB-11 | 1.57 | 1.33-1.79 | Y | 98.5 | 50.0-145 | 13C-PCB-189 | 0.45 | 0.38-0.52 | y | 114.0 | 50 - 145 |
| 13C-PCB-19 | 1.12 | 0.88-1.20 | Y | 117.4 | 50.0-145 | 13C-PCB-202 | 0.93 | 0.76-1.02 | y | 118.9 | 50 - 145 |
| 13C-PCB-32 | 1.14 | 0.88-1.20 | Y | 119.7 | 50.0-145 | 13C-PCB-194 | 0.93 | 0.76-1.02 | y | 101.9 | 50 - 145 |
| 13C-PCB-28 | 1.11 | 0.88-1.20 | Y | 102.3 | 50.0-145 | 13C-PCB-208 | 0.77 | 0.65-0.89 | y | 100.8 | 50 - 145 |
| 13C-PCB-37 | 1.13 | 0.88-1.20 | Y | 103.0 | 50.0-145 | 13C-PCB-206 | 0.79 | 0.65-0.89 | y | 106.4 | 50 - 145 |
| 13C-PCB-54 | 0.85 | 0.65-0.89 | Y | 86.0 | 50.0-145 | 13C-PCB-209 | 1.17 | 0.99-1.33 | y | 121.4 | 50 - 145 |
| 13C-PCB-52 | 0.83 | 0.65-0.89 | Y | 91.0 | 50.0-145 | | | | | | |
| 13C-PCB-47 | 0.85 | 0.65-0.89 | Y | 91.1 | 50.0-145 | | | | | | |
| 13C-PCB-70 | 0.85 | 0.65-0.89 | Y | 94.6 | 50.0-145 | | | | | | |
| 13C-PCB-80 | 0.86 | 0.65-0.89 | Y | 97.5 | 50.0-145 | | | | | | |
| 13C-PCB-81 | 0.85 | 0.65-0.89 | Y | 97.8 | 50.0-145 | | | | | | |
| 13C-PCB-77 | 0.87 | 0.65-0.89 | Y | 96.6 | 50.0-145 | | | | | | |
| 13C-PCB-104 | 1.61 | 1.32-1.78 | Y | 91.3 | 50.0-145 | | | | | | |
| 13C-PCB-95 | 1.62 | 1.32-1.78 | Y | 95.6 | 50.0-145 | | | | | | |
| 13C-PCB-101 | 1.62 | 1.32-1.78 | Y | 98.6 | 50.0-145 | | | | | | |
| 13C-PCB-97 | 1.61 | 1.32-1.78 | Y | 101.1 | 50.0-145 | | | | | | |
| 13C-PCB-123 | 1.63 | 1.32-1.78 | Y | 105.1 | 50.0-145 | 13C-PCB-79 | 0.84 | 0.65-0.89 | y | 101.1 | 75 - 125 |
| 13C-PCB-118 | 1.64 | 1.32-1.78 | Y | 101.6 | 50.0-145 | 13C-PCB-178 | 0.46 | 0.38-0.52 | y | 103.7 | 75 - 125 |
| 13C-PCB-114 | 1.71 | 1.32-1.78 | Y | 78.9 | 50.0-145 | | | | | | |
| 13C-PCB-105 | 1.69 | 1.32-1.78 | Y | 78.8 | 50.0-145 | | | | | | |
| 13C-PCB-127 | 1.71 | 1.32-1.78 | Y | 79.3 | 50.0-145 | | | | | | |
| 13C-PCB-126 | 1.70 | 1.32-1.78 | Y | 83.0 | 50.0-145 | | | | | | |
| 13C-PCB-155 | 1.31 | 1.05-1.43 | Y | 107.3 | 50.0-145 | | | | | | |
| 13C-PCB-153 | 1.33 | 1.05-1.43 | Y | 92.5 | 50.0-145 | | | | | | |
| 13C-PCB-141 | 1.33 | 1.05-1.43 | Y | 92.3 | 50.0-145 | | | | | | |
| 13C-PCB-138 | 1.32 | 1.05-1.43 | Y | 94.5 | 50.0-145 | | | | | | |
| 13C-PCB-159 | 1.30 | 1.05-1.43 | Y | 96.2 | 50.0-145 | | | | | | |
| 13C-PCB-167 | 1.34 | 1.05-1.43 | Y | 97.8 | 50.0-145 | | | | | | |
| 13C-PCB-156 | 1.32 | 1.05-1.43 | Y | 99.1 | 50.0-145 | | | | | | |
| 13C-PCB-157 | 1.34 | 1.05-1.43 | Y | 101.4 | 50.0-145 | | | | | | |

CRS vs. RS

Analyst: *DMS*

Date: *9/22/14*

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc |
|--------------|----------|--------|------|-------|-------|-------------|---------|------|-----------------|----------|--------|------|-------|-------|-------------|---------|------|
| PCB-1 | 1.11e+08 | 3.09 y | 1.19 | 16:19 | 1.001 | 0.996-1.006 | 39.9728 | | PCB-52/69 | 1.53e+08 | 0.82 y | 1.28 | 31:43 | 1.001 | 0.996-1.006 | 100.493 | |
| PCB-2 | 1.15e+08 | 3.13 y | 1.18 | 18:42 | 0.989 | 0.984-0.994 | 39.7109 | | PCB-73 | 7.76e+07 | 0.83 y | 1.35 | 31:50 | 1.005 | 1.000-1.010 | 48.2342 | |
| PCB-3 | 1.37e+08 | 3.07 y | 1.43 | 18:56 | 1.001 | 0.996-1.006 | 39.1959 | | PCB-43/49 | 1.14e+08 | 0.83 y | 0.99 | 32:00 | 1.010 | 1.005-1.015 | 96.2901 | |
| | | | | | | | | | PCB-47 | 5.64e+07 | 0.96 n | 1.06 | 32:13 | 1.001 | 0.996-1.006 | 42.4969 | |
| PCB-4/10 | 3.53e+08 | 1.63 y | 1.57 | 20:18 | 1.003 | 0.997-1.007 | 201.893 | | PCB-48/75 | 1.55e+08 | 0.77 y | 1.23 | 32:20 | 1.004 | 0.999-1.009 | 100.647 | |
| PCB-7/9 | 4.23e+08 | 1.65 y | 1.21 | 22:05 | 0.869 | 0.866-0.874 | 203.572 | | PCB-65 | 7.50e+07 | 0.81 y | 1.22 | 32:36 | 1.013 | 1.008-1.018 | 48.8214 | |
| PCB-6 | 2.19e+08 | 1.66 y | 1.30 | 22:44 | 0.894 | 0.890-0.899 | 97.4930 | | PCB-62 | 7.69e+07 | 0.84 y | 1.22 | 32:41 | 1.015 | 1.011-1.021 | 50.1886 | |
| PCB-5/8 | 4.04e+08 | 1.64 y | 1.15 | 23:09 | 0.911 | 0.907-0.917 | 204.664 | | PCB-44 | 5.36e+07 | 0.81 y | 0.86 | 33:01 | 1.026 | 1.021-1.031 | 49.6890 | |
| PCB-14 | 2.10e+08 | 1.65 y | 1.11 | 24:15 | 0.954 | 0.949-0.959 | 103.816 | | PCB-42/59 | 1.42e+08 | 0.81 y | 1.14 | 33:13 | 1.032 | 1.028-1.038 | 99.2925 | |
| PCB-11 | 2.02e+08 | 1.66 y | 1.09 | 25:26 | 1.001 | 0.995-1.005 | 102.316 | | PCB-41/64/71/72 | 2.99e+08 | 0.82 y | 1.21 | 33:48 | 1.050 | 1.046-1.056 | 197.303 | |
| PCB-12/13 | 4.41e+08 | 1.65 y | 1.19 | 25:49 | 1.016 | 1.011-1.021 | 202.849 | | PCB-68 | 8.61e+07 | 0.82 y | 1.35 | 34:04 | 1.058 | 1.054-1.064 | 50.9281 | |
| PCB-15 | 2.34e+08 | 1.67 y | 1.28 | 26:08 | 1.028 | 1.023-1.033 | 100.275 | | PCB-40 | 4.57e+07 | 0.82 y | 0.70 | 34:18 | 1.065 | 1.061-1.071 | 51.9284 | |
| | | | | | | | | | PCB-57 | 7.83e+07 | 0.82 y | 0.98 | 34:38 | 0.970 | 0.965-0.975 | 49.9521 | |
| PCB-19 | 5.95e+07 | 1.10 y | 1.04 | 24:26 | 1.001 | 0.996-1.006 | 46.4094 | | PCB-67 | 8.42e+07 | 0.82 y | 1.11 | 34:56 | 0.978 | 0.974-0.984 | 47.5147 | |
| PCB-30 | 9.90e+07 | 1.09 y | 1.71 | 25:19 | 1.037 | 1.032-1.042 | 47.0091 | | PCB-58 | 7.55e+07 | 0.83 y | 0.93 | 35:04 | 0.982 | 0.977-0.987 | 50.8489 | |
| PCB-18 | 6.94e+07 | 1.08 y | 0.78 | 26:04 | 0.954 | 0.949-0.959 | 47.3299 | | PCB-63 | 7.55e+07 | 0.83 y | 0.95 | 35:14 | 0.987 | 0.982-0.992 | 49.5047 | |
| PCB-17 | 8.10e+07 | 1.09 y | 0.92 | 26:14 | 0.960 | 0.956-0.966 | 46.8122 | | PCB-74 | 9.70e+07 | 0.81 y | 1.24 | 35:31 | 0.995 | 0.990-1.000 | 48.7249 | |
| PCB-24/27 | 2.10e+08 | 1.09 y | 1.19 | 26:49 | 0.981 | 0.977-0.987 | 93.9988 | | PCB-61/70 | 1.56e+08 | 0.83 y | 0.95 | 35:41 | 0.999 | 0.995-1.005 | 102.162 | |
| PCB-16/32 | 1.65e+08 | 1.10 y | 0.94 | 27:19 | 1.000 | 0.995-1.005 | 93.3408 | | PCB-76/66 | 1.63e+08 | 0.82 y | 1.04 | 35:54 | 1.005 | 1.001-1.011 | 97.6861 | |
| PCB-34 | 1.02e+08 | 1.06 y | 1.14 | 28:07 | 0.960 | 0.955-0.965 | 57.4954 | | PCB-80 | 1.01e+08 | 0.83 y | 1.19 | 36:08 | 1.000 | 0.996-1.006 | 49.4841 | |
| PCB-23 | 9.78e+07 | 1.07 y | 1.28 | 28:13 | 0.964 | 0.959-0.969 | 48.9323 | | PCB-55 | 8.62e+07 | 0.83 y | 1.04 | 36:27 | 1.009 | 1.005-1.015 | 48.5257 | |
| PCB-29 | 8.96e+07 | 1.06 y | 1.08 | 28:28 | 0.972 | 0.967-0.977 | 53.0876 | | PCB-56/60 | 1.72e+08 | 0.82 y | 1.01 | 36:57 | 1.023 | 1.019-1.029 | 99.8359 | |
| PCB-26 | 9.81e+07 | 1.09 y | 1.21 | 28:40 | 0.979 | 0.974-0.984 | 52.0184 | | PCB-79 | 9.17e+07 | 0.82 y | 1.08 | 38:01 | 1.053 | 1.048-1.058 | 49.8075 | |
| PCB-25 | 1.05e+08 | 1.05 y | 1.26 | 28:49 | 0.984 | 0.979-0.989 | 53.3545 | | PCB-78 | 9.24e+07 | 0.82 y | 1.27 | 38:43 | 0.987 | 0.982-0.992 | 47.5758 | |
| PCB-31 | 1.00e+08 | 1.05 y | 1.28 | 29:11 | 0.997 | 0.992-1.002 | 49.7953 | | PCB-81 | 9.54e+07 | 0.82 y | 1.33 | 39:14 | 1.000 | 0.995-1.005 | 46.9330 | |
| PCB-28 | 1.41e+08 | 1.06 y | 1.71 | 29:18 | 1.001 | 0.995-1.005 | 52.5660 | | PCB-77 | 8.52e+07 | 0.86 y | 1.10 | 39:50 | 1.000 | 0.995-1.005 | 50.1527 | |
| PCB-20/21/33 | 2.68e+08 | 1.07 y | 1.08 | 29:54 | 1.021 | 1.017-1.027 | 158.720 | | | | | | | | | | |
| PCB-22 | 1.01e+08 | 1.06 y | 1.21 | 30:21 | 1.037 | 1.032-1.042 | 53.7242 | | PCB-104 | 6.86e+07 | 1.63 y | 1.18 | 32:51 | 1.000 | 0.996-1.006 | 51.3735 | |
| PCB-36 | 8.96e+07 | 1.06 y | 1.14 | 30:58 | 0.934 | 0.928-0.938 | 55.3638 | | PCB-96 | 6.58e+07 | 1.65 y | 1.14 | 34:08 | 1.039 | 1.034-1.044 | 51.2370 | |
| PCB-39 | 8.72e+07 | 1.05 y | 1.12 | 31:26 | 0.948 | 0.943-0.953 | 55.1536 | | PCB-103 | 5.60e+07 | 1.61 y | 0.96 | 34:39 | 1.055 | 1.050-1.060 | 51.8620 | |
| PCB-38 | 8.87e+07 | 1.07 y | 1.20 | 32:13 | 0.972 | 0.966-0.976 | 52.1638 | | PCB-100 | 5.63e+07 | 1.65 y | 0.94 | 35:01 | 1.066 | 1.061-1.071 | 53.2722 | |
| PCB-35 | 1.02e+08 | 1.07 y | 1.23 | 32:44 | 0.987 | 0.982-0.992 | 58.2204 | | PCB-94 | 4.61e+07 | 1.65 y | 1.06 | 35:29 | 0.986 | 0.980-0.990 | 49.9645 | |
| PCB-37 | 9.34e+07 | 1.06 y | 1.23 | 33:10 | 1.000 | 0.995-1.005 | 53.6121 | | PCB-95/98/102 | 1.61e+08 | 1.63 y | 1.22 | 35:59 | 0.999 | 0.995-1.005 | 150.602 | |
| | | | | | | | | | PCB-93 | 4.22e+07 | 1.74 y | 0.84 | 36:07 | 1.003 | 0.997-1.007 | 57.2422 | |
| PCB-54 | 7.39e+07 | 0.81 y | 1.10 | 28:11 | 1.001 | 0.996-1.006 | 47.3802 | | PCB-88/91 | 9.75e+07 | 1.62 y | 1.12 | 36:23 | 1.011 | 1.005-1.015 | 99.9804 | |
| PCB-50 | 6.20e+07 | 0.81 y | 0.88 | 29:20 | 1.042 | 1.037-1.047 | 49.7845 | | PCB-121 | 8.12e+07 | 1.66 y | 1.62 | 36:30 | 1.014 | 1.009-1.019 | 57.5594 | |
| PCB-53 | 6.04e+07 | 0.83 y | 1.06 | 29:59 | 0.946 | 0.942-0.952 | 47.7193 | | PCB-84/92 | 1.02e+08 | 1.64 y | 1.05 | 37:20 | 0.991 | 0.985-0.995 | 102.316 | |
| PCB-51 | 5.71e+07 | 0.81 y | 0.99 | 30:19 | 0.957 | 0.952-0.962 | 48.4308 | | PCB-89 | 5.53e+07 | 1.65 y | 1.13 | 37:31 | 0.995 | 0.991-1.001 | 51.3810 | |
| PCB-45 | 5.16e+07 | 0.82 y | 0.86 | 30:45 | 0.971 | 0.966-0.976 | 50.1711 | | | | | | | | | | |
| PCB-46 | 4.88e+07 | 0.82 y | 0.85 | 31:15 | 0.986 | 0.981-0.991 | 48.5466 | | | | | | | | | | |

Integrations

by

Analyst: DMS

Reviewed

by

Analyst: _____

RL: MONO, TRI - DECA: _____

RL: DI : _____

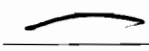
Date: 9/22/14

Date: _____

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc |
|---------------|----------|------|-----|------|-------|-------|-------------|---------|-----------------|----------|------|-----|------|-------|-------|-------------|---------|
| PCB-90/101 | 1.09e+08 | 1.64 | y | 1.10 | 37:41 | 1.000 | 0.995-1.005 | 103.447 | PCB-133/142 | 9.08e+07 | 1.30 | y | 0.82 | 42:37 | 0.982 | 0.977-0.987 | 93.7376 |
| PCB-113 | 6.83e+07 | 1.64 | y | 1.41 | 37:56 | 1.007 | 1.002-1.012 | 50.8693 | PCB-131 | 4.98e+07 | 1.31 | y | 0.91 | 42:47 | 0.986 | 0.981-0.991 | 46.3913 |
| PCB-99 | 6.83e+07 | 1.67 | y | 1.34 | 38:02 | 1.009 | 1.004-1.014 | 53.6570 | PCB-146/165 | 1.34e+08 | 1.30 | y | 1.25 | 43:00 | 0.991 | 0.986-0.996 | 91.2559 |
| PCB-119 | 6.84e+07 | 1.64 | y | 1.53 | 38:29 | 0.987 | 0.982-0.992 | 50.8545 | PCB-132/161 | 1.19e+08 | 1.35 | y | 1.10 | 43:15 | 0.996 | 0.992-1.002 | 91.3657 |
| PCB-108/112 | 1.11e+08 | 1.66 | y | 1.28 | 38:39 | 0.991 | 0.986-0.996 | 99.0293 | PCB-153 | 6.72e+07 | 1.22 | y | 1.25 | 43:26 | 1.001 | 0.995-1.005 | 45.4666 |
| PCB-83 | 6.48e+07 | 1.66 | y | 1.52 | 38:48 | 0.995 | 0.990-1.000 | 48.6088 | PCB-168 | 7.98e+07 | 1.29 | y | 1.45 | 43:38 | 1.005 | 1.001-1.011 | 46.5392 |
| PCB-97 | 5.15e+07 | 1.65 | y | 1.18 | 39:01 | 1.001 | 0.995-1.005 | 49.5956 | PCB-141 | 5.58e+07 | 1.28 | y | 1.09 | 44:10 | 1.001 | 0.995-1.005 | 46.5017 |
| PCB-86 | 4.38e+07 | 1.64 | y | 0.84 | 39:09 | 1.004 | 0.999-1.009 | 59.2332 | PCB-137 | 5.69e+07 | 1.26 | y | 1.06 | 44:33 | 1.009 | 1.004-1.014 | 48.4431 |
| B-87/117/125 | 2.02e+08 | 1.63 | y | 1.55 | 39:17 | 1.007 | 1.002-1.012 | 148.694 | PCB-130 | 4.86e+07 | 1.32 | y | 0.96 | 44:38 | 1.011 | 1.006-1.016 | 45.4933 |
| PCB-111/115 | 1.38e+08 | 1.63 | y | 1.63 | 39:26 | 1.011 | 1.006-1.016 | 96.1083 | PCB-138/163/164 | 2.06e+08 | 1.29 | y | 1.29 | 45:02 | 1.001 | 0.996-1.006 | 137.752 |
| PCB-85/116 | 1.19e+08 | 1.64 | y | 1.30 | 39:34 | 1.015 | 1.010-1.020 | 104.412 | PCB-158/160 | 1.48e+08 | 1.28 | y | 1.34 | 45:15 | 1.006 | 1.001-1.011 | 94.8712 |
| PCB-120 | 7.51e+07 | 1.65 | y | 1.68 | 39:49 | 1.021 | 1.016-1.026 | 50.9712 | PCB-129 | 4.77e+07 | 1.30 | y | 0.85 | 45:31 | 1.012 | 1.007-1.017 | 48.1925 |
| PCB-110 | 6.88e+07 | 1.64 | y | 1.56 | 39:56 | 1.024 | 1.020-1.030 | 50.3046 | PCB-166 | 7.34e+07 | 1.30 | y | 1.19 | 45:57 | 0.993 | 0.988-0.998 | 46.2505 |
| PCB-82 | 4.60e+07 | 1.64 | y | 0.76 | 40:34 | 0.976 | 0.971-0.981 | 52.3033 | PCB-159 | 6.87e+07 | 1.28 | y | 1.11 | 46:17 | 1.000 | 0.996-1.006 | 46.1474 |
| PCB-124 | 9.01e+07 | 1.64 | y | 1.47 | 41:15 | 0.993 | 0.988-0.998 | 52.8572 | PCB-128/162 | 1.29e+08 | 1.28 | y | 1.05 | 46:34 | 1.006 | 1.002-1.012 | 92.1806 |
| PCB-107/109 | 1.50e+08 | 1.65 | y | 1.32 | 41:24 | 0.996 | 0.991-1.001 | 97.8841 | PCB-167 | 8.33e+07 | 1.29 | y | 1.20 | 46:58 | 1.000 | 0.995-1.005 | 47.0741 |
| PCB-123 | 6.95e+07 | 1.63 | y | 1.17 | 41:34 | 1.000 | 0.996-1.006 | 51.3152 | PCB-156 | 7.70e+07 | 1.30 | y | 1.14 | 48:16 | 1.000 | 0.996-1.006 | 47.3222 |
| - PCB-106/118 | 1.46e+08 | 1.64 | y | 1.17 | 41:46 | 1.001 | 0.996-1.006 | 103.201 | PCB-157 | 8.18e+07 | 1.30 | y | 1.16 | 48:32 | 1.000 | 0.995-1.005 | 45.7572 |
| - PCB-114 | 7.86e+07 | 1.61 | y | 1.30 | 42:24 | 1.000 | 0.995-1.005 | 50.5711 | PCB-169 | 7.54e+07 | 1.29 | y | 1.12 | 50:38 | 1.000 | 0.995-1.005 | 45.7477 |
| PCB-122 | 6.97e+07 | 1.61 | y | 1.12 | 42:32 | 1.003 | 0.999-1.009 | 51.8888 | PCB-188 | 7.73e+07 | 1.07 | y | 1.58 | 43:04 | 1.001 | 0.996-1.006 | 48.4581 |
| PCB-105 | 7.76e+07 | 1.62 | y | 1.30 | 43:16 | 1.000 | 0.995-1.005 | 49.7597 | PCB-184 | 8.09e+07 | 1.08 | y | 1.63 | 43:30 | 1.011 | 1.006-1.016 | 49.1689 |
| PCB-127 | 8.68e+07 | 1.64 | y | 1.33 | 43:36 | 1.000 | 0.996-1.006 | 49.9674 | PCB-179 | 6.52e+07 | 1.07 | y | 1.30 | 44:17 | 1.029 | 1.024-1.034 | 49.5964 |
| PCB-126 | 7.33e+07 | 1.63 | y | 1.18 | 45:29 | 1.000 | 0.995-1.005 | 51.2309 | PCB-176 | 7.27e+07 | 1.07 | y | 1.48 | 44:45 | 1.040 | 1.035-1.045 | 48.8249 |
| PCB-155 | 5.96e+07 | 1.31 | y | 1.11 | 37:15 | 1.001 | 0.966-1.006 | 48.1853 | PCB-186 | 7.35e+07 | 1.08 | y | 1.45 | 45:21 | 1.054 | 1.050-1.060 | 50.1252 |
| PCB-150 | 5.55e+07 | 1.30 | y | 1.00 | 38:31 | 1.035 | 1.030-1.040 | 49.9802 | PCB-178 | 5.31e+07 | 1.06 | y | 1.03 | 45:51 | 1.065 | 1.061-1.071 | 50.9095 |
| PCB-152 | 5.99e+07 | 1.32 | y | 1.12 | 38:60 | 1.047 | 1.043-1.053 | 48.3424 | PCB-175 | 5.34e+07 | 1.09 | y | 1.01 | 46:12 | 1.073 | 1.069-1.079 | 52.2793 |
| PCB-145 | 6.55e+07 | 1.30 | y | 1.20 | 39:26 | 1.059 | 1.055-1.065 | 49.0784 | PCB-182/187 | 1.28e+08 | 1.07 | y | 1.25 | 46:22 | 1.077 | 1.073-1.083 | 101.354 |
| PCB-136 | 6.95e+07 | 1.31 | y | 1.18 | 39:46 | 1.068 | 1.064-1.074 | 53.1158 | PCB-183 | 6.21e+07 | 1.07 | y | 1.21 | 46:41 | 1.085 | 1.081-1.091 | 50.9008 |
| PCB-148 | 3.78e+07 | 1.33 | y | 0.74 | 39:52 | 1.071 | 1.066-1.076 | 45.6456 | PCB-185 | 7.06e+07 | 1.08 | y | 1.80 | 47:21 | 0.956 | 0.951-0.961 | 46.6808 |
| PCB-154 | 5.06e+07 | 1.29 | y | 0.86 | 40:21 | 1.084 | 1.080-1.090 | 53.0917 | PCB-174 | 5.61e+07 | 1.07 | y | 1.38 | 47:42 | 0.963 | 0.958-0.968 | 48.4933 |
| PCB-151 | 4.28e+07 | 1.31 | y | 0.75 | 40:60 | 1.101 | 1.097-1.107 | 51.6348 | PCB-181 | 5.75e+07 | 1.07 | y | 1.38 | 47:49 | 0.965 | 0.960-0.970 | 49.6421 |
| PCB-135 | 4.64e+07 | 1.28 | y | 0.79 | 41:13 | 1.107 | 1.103-1.113 | 52.6520 | PCB-177 | 5.12e+07 | 1.07 | y | 1.26 | 47:59 | 0.969 | 0.963-0.973 | 48.5465 |
| PCB-144 | 4.39e+07 | 1.29 | y | 0.76 | 41:19 | 1.110 | 1.105-1.117 | 51.8595 | PCB-171 | 6.33e+07 | 1.06 | y | 1.58 | 48:17 | 0.975 | 0.970-0.980 | 47.6402 |
| PCB-147 | 4.90e+07 | 1.32 | y | 0.82 | 41:27 | 1.113 | 1.109-1.121 | 53.8050 | PCB-173 | 4.64e+07 | 1.09 | y | 1.11 | 48:42 | 0.983 | 0.978-0.988 | 49.8226 |
| PCB-139/149 | 8.96e+07 | 1.31 | y | 0.76 | 41:43 | 1.120 | 1.116-1.128 | 105.849 | PCB-172 | 6.87e+07 | 1.08 | y | 1.63 | 49:09 | 0.992 | 0.987-0.997 | 50.0910 |
| - PCB-140 | 4.40e+07 | 1.30 | y | 0.72 | 41:54 | 1.125 | 1.121-1.133 | 54.8157 | PCB-192 | 7.32e+07 | 1.07 | y | 1.74 | 49:21 | 0.996 | 0.991-1.001 | 50.1132 |
| - PCB-134/143 | 1.01e+08 | 1.29 | y | 0.92 | 42:20 | 0.975 | 0.970-0.980 | 93.0880 | PCB-180 | 5.56e+07 | 1.07 | y | 1.34 | 49:33 | 1.000 | 0.995-1.005 | 49.2297 |

Integrations

by

RL: MONO, TRI - DECA: 

Analyst: *DMS*

Date: *9/22/14*

Client ID: PCB CS3 14F1302
Lab ID: ST140919E2-1

Filename: 140919E2 S:1 Acq:19-SEP-14 23:43:03
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

ConCal: ST140919E2-1

Page 2 of

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc |
|---------------|----------|--------|------|-------|-------|-------------|-----|---------|
| PCB-193 | 6.95e+07 | 1.08 y | 1.72 | 49:45 | 1.004 | 0.999-1.009 | | 48.2708 |
| PCB-191 | 6.91e+07 | 1.07 y | 1.69 | 49:60 | 1.009 | 1.004-1.014 | | 48.5888 |
| PCB-170 | 5.45e+07 | 1.06 y | 1.60 | 51:01 | 1.000 | 0.995-1.005 | | 49.0877 |
| PCB-190 | 7.34e+07 | 1.07 y | 2.21 | 51:11 | 1.004 | 0.998-1.008 | | 47.7964 |
| PCB-189 | 6.83e+07 | 1.07 y | 1.55 | 52:29 | 1.000 | 0.995-1.005 | | 48.3848 |
| PCB-202 | 5.76e+07 | 0.93 y | 1.08 | 48:29 | 1.000 | 0.995-1.005 | | 47.8363 |
| PCB-201 | 6.24e+07 | 0.93 y | 1.15 | 48:58 | 1.010 | 1.005-1.015 | | 48.7887 |
| PCB-204 | 6.26e+07 | 0.93 y | 1.14 | 49:07 | 1.014 | 1.008-1.018 | | 49.4498 |
| PCB-197 | 5.83e+07 | 0.92 y | 1.07 | 49:25 | 1.020 | 1.015-1.025 | | 48.8525 |
| PCB-200 | 5.84e+07 | 0.92 y | 1.06 | 50:17 | 1.038 | 1.032-1.044 | | 49.4456 |
| PCB-198 | 4.42e+07 | 0.91 y | 0.76 | 51:36 | 1.065 | 1.059-1.069 | | 52.6742 |
| PCB-199 | 4.59e+07 | 0.94 y | 0.80 | 51:43 | 1.067 | 1.061-1.071 | | 51.7544 |
| - PCB-196/203 | 9.42e+07 | 0.92 y | 0.80 | 51:58 | 1.072 | 1.066-1.076 | | 105.715 |
| - PCB-195 | 5.11e+07 | 0.93 y | 1.23 | 53:07 | 0.984 | 0.979-0.989 | | 48.2362 |
| PCB-194 | 5.04e+07 | 0.92 y | 1.21 | 53:59 | 1.000 | 0.995-1.005 | | 48.2296 |
| PCB-205 | 6.27e+07 | 0.93 y | 1.54 | 54:15 | 1.005 | 1.001-1.011 | | 47.1337 |
| PCB-208 | 5.38e+07 | 1.39 y | 0.93 | 53:16 | 1.000 | 0.995-1.005 | | 49.9495 |
| PCB-207 | 6.33e+07 | 1.38 y | 1.08 | 53:34 | 1.006 | 1.001-1.011 | | 50.5179 |
| PCB-206 | 3.74e+07 | 1.37 y | 1.02 | 55:38 | 1.000 | 0.995-1.005 | | 49.7562 |
| PCB-209 | 4.56e+07 | 1.19 y | 1.17 | 56:58 | 1.000 | 0.995-1.005 | | 49.4577 |

| Name | Resp | RA | RT | RRF | Conc |
|-----------------|----------|--------|-------|------|---------|
| Total Mono-PCB | 3.63e+08 | 3.09 y | 16:19 | 1.27 | 118.880 |
| Total Di-PCB | 2.49e+09 | 1.63 y | 20:18 | 1.21 | 1218.22 |
| Total Tri-PCB | 6.83e+08 | 1.10 y | 24:26 | 1.10 | 374.900 |
| Total Tetra-PCB | 1.58e+09 | 1.06 y | 28:07 | 1.21 | 862.867 |
| Total Penta-PCB | 3.11e+09 | 0.81 y | 28:11 | 1.09 | 2043.57 |
| Total Hexa-PCB | 2.53e+09 | 1.63 y | 32:51 | 1.18 | 2104.16 |
| Total Hepta-PCB | 4.05e+08 | 1.61 y | 42:24 | 1.25 | 265.576 |
| Total Octa-PCB | 7.14e+08 | 1.31 y | 37:15 | 0.90 | 718.055 |
| Total Nona-PCB | 1.82e+09 | 1.29 y | 42:20 | 1.11 | 1316.10 |
| Total Deca-PCB | 1.56e+09 | 1.07 y | 43:04 | 1.42 | 1194.99 |
| | 4.84e+08 | 0.93 y | 48:29 | 0.96 | 454.516 |
| | 1.67e+08 | 0.93 y | 53:07 | 1.33 | 146.056 |
| | 1.58e+08 | 1.39 y | 53:16 | 1.01 | 153.968 |
| | 4.56e+07 | 1.19 y | 56:58 | 1.17 | 49.4577 |

Total PCB Conc:10984.9083290

Integrations

by

RL: MONO, TRI - DECA: _____

Analyst: *DMS*

Date: *9/22/14*

Client ID: PCB CS3 14F1302
Lab ID: ST140919E2-1

Filename: 140919E2 S:1 Acq:19-SEP-14 23:43:03
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:1.0000

ConCal: ST140919E2-1
EndCAL: NA

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec |
|-------------|----------|--------|------|-------|-------|-------------|-----|------|------|
| 13C-PCB-1 | 2.32e+08 | 3.42 y | 0.87 | 16:17 | 0.623 | 0.629-0.635 | ↓ | 135 | 135 |
| 13C-PCB-3 | 2.46e+08 | 3.46 y | 0.91 | 18:55 | 0.724 | 0.725-0.733 | ↓ | 137 | 137 |
| 13C-PCB-4 | 1.12e+08 | 1.58 y | 0.59 | 20:15 | 0.775 | 0.775-0.783 | | 96.5 | 96.5 |
| 13C-PCB-9 | 1.72e+08 | 1.60 y | 0.90 | 22:02 | 0.844 | 0.842-0.850 | | 97.3 | 97.3 |
| 13C-PCB-11 | 1.82e+08 | 1.57 y | 0.94 | 25:25 | 0.973 | 0.968-0.978 | | 98.5 | 98.5 |
| 13C-PCB-19 | 1.23e+08 | 1.12 y | 0.53 | 24:24 | 0.934 | 0.930-0.940 | | 117 | 117 |
| 13C-PCB-28 | 1.56e+08 | 1.11 y | 0.93 | 29:17 | 1.004 | 0.999-1.009 | | 102 | 102 |
| 13C-PCB-32 | 1.88e+08 | 1.14 y | 0.80 | 27:19 | 1.046 | 1.040-1.050 | | 120 | 120 |
| 13C-PCB-37 | 1.42e+08 | 1.13 y | 0.84 | 33:09 | 1.137 | 1.131-1.143 | | 103 | 103 |
| 13C-PCB-47 | 1.25e+08 | 0.85 y | 0.81 | 32:12 | 0.871 | 0.866-0.874 | | 91.1 | 91.1 |
| 13C-PCB-52 | 1.19e+08 | 0.83 y | 0.77 | 31:41 | 0.858 | 0.853-0.861 | | 91.0 | 91.0 |
| 13C-PCB-54 | 1.41e+08 | 0.85 y | 0.97 | 28:10 | 0.762 | 0.758-0.766 | | 86.0 | 86.0 |
| 13C-PCB-70 | 1.60e+08 | 0.85 y | 1.00 | 35:43 | 0.966 | 0.961-0.971 | | 94.6 | 94.6 |
| 13C-PCB-77 | 1.54e+08 | 0.87 y | 0.94 | 39:49 | 1.078 | 1.073-1.083 | | 96.6 | 96.6 |
| 13C-PCB-80 | 1.70e+08 | 0.86 y | 1.03 | 36:07 | 0.977 | 0.972-0.982 | | 97.5 | 97.5 |
| 13C-PCB-81 | 1.53e+08 | 0.85 y | 0.92 | 39:13 | 1.062 | 1.057-1.067 | | 97.8 | 97.8 |
| 13C-PCB-95 | 8.74e+07 | 1.62 y | 0.74 | 36:00 | 0.914 | 0.908-0.918 | | 95.6 | 95.6 |
| 13C-PCB-97 | 8.79e+07 | 1.61 y | 0.70 | 38:59 | 0.989 | 0.984-0.994 | | 101 | 101 |
| 13C-PCB-101 | 9.53e+07 | 1.62 y | 0.78 | 37:41 | 0.956 | 0.951-0.961 | | 98.6 | 98.6 |
| 13C-PCB-104 | 1.13e+08 | 1.61 y | 1.00 | 32:51 | 0.834 | 0.828-0.836 | | 91.3 | 91.3 |
| 13C-PCB-105 | 1.20e+08 | 1.69 y | 1.37 | 43:15 | 0.929 | 0.924-0.934 | | 78.8 | 78.8 |
| 13C-PCB-114 | 1.20e+08 | 1.71 y | 1.36 | 42:23 | 0.911 | 0.905-0.915 | | 78.9 | 78.9 |
| 13C-PCB-118 | 1.20e+08 | 1.64 y | 0.96 | 41:44 | 1.059 | 1.054-1.064 | | 102 | 102 |
| 13C-PCB-123 | 1.16e+08 | 1.63 y | 0.89 | 41:33 | 1.054 | 1.050-1.060 | | 105 | 105 |
| 13C-PCB-126 | 1.21e+08 | 1.70 y | 1.31 | 45:29 | 0.977 | 0.972-0.982 | | 83.0 | 83.0 |
| 13C-PCB-127 | 1.30e+08 | 1.71 y | 1.47 | 43:35 | 0.936 | 0.931-0.941 | | 79.3 | 79.3 |
| 13C-PCB-138 | 1.16e+08 | 1.32 y | 1.10 | 44:59 | 0.966 | 0.961-0.971 | | 94.5 | 94.5 |
| 13C-PCB-141 | 1.11e+08 | 1.33 y | 1.07 | 44:08 | 0.948 | 0.943-0.953 | | 92.3 | 92.3 |
| 13C-PCB-153 | 1.18e+08 | 1.33 y | 1.15 | 43:24 | 0.932 | 0.927-0.937 | | 92.5 | 92.5 |
| 13C-PCB-155 | 1.11e+08 | 1.31 y | 0.84 | 37:14 | 0.945 | 0.939-0.949 | | 107 | 107 |
| 13C-PCB-156 | 1.43e+08 | 1.32 y | 1.30 | 48:15 | 1.036 | 1.032-1.042 | | 99.1 | 99.1 |
| 13C-PCB-157 | 1.54e+08 | 1.34 y | 1.36 | 48:31 | 1.042 | 1.038-1.048 | | 101 | 101 |
| 13C-PCB-159 | 1.34e+08 | 1.30 y | 1.25 | 46:16 | 0.994 | 0.989-0.999 | | 96.2 | 96.2 |
| 13C-PCB-167 | 1.47e+08 | 1.34 y | 1.35 | 46:57 | 1.009 | 1.004-1.014 | | 97.8 | 97.8 |
| 13C-PCB-169 | 1.47e+08 | 1.30 y | 1.29 | 50:38 | 1.088 | 1.083-1.093 | | 103 | 103 |
| 13C-PCB-170 | 6.95e+07 | 0.46 y | 0.54 | 51:00 | 1.096 | 1.089-1.101 | | 115 | 115 |
| 13C-PCB-180 | 8.39e+07 | 0.47 y | 0.68 | 49:32 | 1.064 | 1.060-1.070 | | 110 | 110 |
| 13C-PCB-188 | 1.01e+08 | 0.46 y | 0.92 | 43:02 | 0.925 | 0.919-0.929 | | 98.5 | 98.5 |
| 13C-PCB-189 | 9.11e+07 | 0.45 y | 0.72 | 52:28 | 1.127 | 1.120-1.132 | | 114 | 114 |
| 13C-PCB-194 | 8.64e+07 | 0.93 y | 0.80 | 53:58 | 0.995 | 0.990-1.000 | | 102 | 102 |
| 13C-PCB-202 | 1.11e+08 | 0.93 y | 0.84 | 48:27 | 1.041 | 1.036-1.046 | | 119 | 119 |
| 13C-PCB-206 | 7.34e+07 | 0.79 y | 0.65 | 55:37 | 1.025 | 1.021-1.031 | | 106 | 106 |
| 13C-PCB-208 | 1.16e+08 | 0.77 y | 1.08 | 53:15 | 0.982 | 0.976-0.986 | | 101 | 101 |
| 13C-PCB-209 | 7.88e+07 | 1.17 y | 0.61 | 56:57 | 1.050 | 1.045-1.055 | | 121 | 121 |

| CRS vs. RS | | | | | | | | | |
|-------------|----------|--------|------|-------|-------|-------------|-----|------|-----|
| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec |
| 13C-PCB-79 | 1.74e+08 | 0.84 y | 1.02 | 38:00 | 1.029 | 1.023-1.034 | | 101 | 101 |
| 13C-PCB-178 | 7.10e+07 | 0.46 y | 0.61 | 45:50 | 0.984 | 0.979-0.990 | | 104 | 104 |

| PS vs. IS | | | | | | | | | |
|-------------|----------|--------|------|-------|-------|-------------|-----|------|------|
| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec |
| 13C-PCB-79 | 1.74e+08 | 0.84 y | 1.10 | 38:00 | 0.969 | 0.964-0.974 | | 103 | 103 |
| 13C-PCB-178 | 7.10e+07 | 0.46 y | 0.90 | 45:50 | 0.925 | 0.920-0.930 | | 94.2 | 94.2 |

| RS | | | | | | |
|-------------|----------|--------|------|-------|------|-----|
| Name | Resp | RA | RRF | RT | Conc | Rec |
| 13C-PCB-15 | 1.97e+08 | 1.57 y | 1.00 | 26:08 | 100 | |
| 13C-PCB-31 | 1.64e+08 | 1.11 y | 1.00 | 29:10 | 100 | |
| 13C-PCB-60 | 1.69e+08 | 0.86 y | 1.00 | 36:57 | 100 | |
| 13C-PCB-111 | 1.23e+08 | 1.61 y | 1.00 | 39:25 | 100 | |
| 13C-PCB-128 | 1.12e+08 | 1.32 y | 1.00 | 46:33 | 100 | |
| 13C-PCB-205 | 1.06e+08 | 0.93 y | 1.00 | 54:15 | 100 | |

⊗ = RRT limits used for DATA processing only, RRT within 1668 method limit.
DMS 9/22/14

Analyst: DMS

Date: 9/22/14

| Data file | S# | Sample ID | Analyst | Acq date | Acq time | CCal | ECal |
|-----------|----|-----------------------|---------|-----------|----------|--------------|------|
| 140919E2 | 1 | ST140919E2-1 | DMS | 19-SEP-14 | 23:43:03 | ST140919E2-1 | NA |
| 140919E2 | 2 | B4I0032-BS1 | DMS | 20-SEP-14 | 00:47:26 | ST140919E2-1 | NA |
| 140919E2 | 3 | B4I0061-BS1 | DMS | 20-SEP-14 | 01:51:50 | ST140919E2-1 | NA |
| 140919E2 | 4 | SOLVENT BLANK | DMS | 20-SEP-14 | 02:56:14 | ST140919E2-1 | NA |
| 140919E2 | 5 | B4I0032-BLK1 | DMS | 20-SEP-14 | 04:00:37 | ST140919E2-1 | NA |
| 140919E2 | 6 | B4I0061-BLK1 | DMS | 20-SEP-14 | 05:05:04 | ST140919E2-1 | NA |
| 140919E2 | 7 | 1400647-04RE1 DL 1:20 | DMS | 20-SEP-14 | 06:09:32 | ST140919E2-1 | NA |
| 140919E2 | 8 | 1400659-03RE1 DL 1:20 | DMS | 20-SEP-14 | 07:13:59 | ST140919E2-1 | NA |
| 140919E2 | 9 | 1400665-01RE1 DL 1:20 | DMS | 20-SEP-14 | 08:18:25 | ST140919E2-1 | NA |
| 140919E2 | 10 | 1400665-02RE1 DL 1:20 | DMS | 20-SEP-14 | 09:22:50 | ST140919E2-1 | NA |
| 140919E2 | 11 | 1400665-03RE1 DL 1:20 | DMS | 20-SEP-14 | 10:27:16 | ST140919E2-1 | NA |
| 140919E2 | 12 | SOLVENT BLANK | DMS | 20-SEP-14 | 11:31:39 | ST140919E2-1 | NA |
| 140919E2 | 13 | SOLVENT BLANK | DMS | 20-SEP-14 | 12:36:04 | ST140919E2-1 | NA |

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST140919E2-1

End Calibration ID: NA

| | <u>Beg.</u> | <u>End</u> |
|---|---|-------------------------------------|
| Ion abundance within QC limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> NA |
| Concentration within range? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| First and last eluters present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Retention Times within criteria? | <input checked="" type="checkbox"/> DMS 9/22/14 | <input type="checkbox"/> |
| Verification Std. named correctly? (ST-Year-Month-Day-VG ID) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Forms signed and dated? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Correct ICAL referenced? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Run Log: | | |
| -Data file matches Conc Cal ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| -Correct instrument listed? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| -Samples within 12-hour clock? | <input checked="" type="checkbox"/> y | <input type="checkbox"/> n |

| | <u>Beg.</u> | <u>End</u> |
|--|-------------------------------------|-------------------------------------|
| Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| TCDD/TCDF valleys < 25%? | <input type="checkbox"/> NA | <input type="checkbox"/> NA |
| Peaks integrated correctly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Manual integrations included? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8280 CS1 Ending Standard | | |
| -Ratios within limits | | <input type="checkbox"/> |
| -S/N > 2.5:1 | | <input type="checkbox"/> |
| -CS1 within 12-hour clock | | <input checked="" type="checkbox"/> |

Comments: ** OK'd by WJL. DMS 9/22/14*

Reviewed by: ms 9/22/14
Initials & Date

** Ending standard criteria applicable to 8290 only.*

Client ID: PCB CS3 14F1901
Lab ID: ST140923E1-1

Filename: 140923E1 S:1 Acq:23-SEP-14 14:00:03
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: NA

ConCal: ST140923E1-1

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Name | Resp | RA | RT | RRF | Conc |
|---------------|----------|--------|------|-------|-------|-------------|---------|-----------|-----------------|----------|--------|-------|------|------------------------------|
| PCB-193 | 5.08e+07 | 1.07 y | 1.65 | 49:40 | 1.004 | 0.999-1.009 | 53.8367 | | Total Mono-PCB | 3.61e+08 | 3.00 y | 16:12 | 1.22 | 152.547 |
| PCB-191 | 5.06e+07 | 1.07 y | 1.67 | 49:55 | 1.009 | 1.004-1.014 | 53.0717 | | Total Di-PCB | 2.18e+09 | 1.54 y | 20:10 | 1.21 | 1100.63 |
| PCB-170 | 3.66e+07 | 1.06 y | 1.50 | 50:57 | 1.000 | 0.995-1.005 | 53.5767 | | Total Tri-PCB | 6.87e+08 | 1.06 y | 24:19 | 1.16 | 450.073 |
| PCB-190 | 4.97e+07 | 1.07 y | 2.02 | 51:07 | 1.004 | 0.998-1.008 | 54.1307 | | Total Tri-PCB | 1.32e+09 | 1.02 y | 28:01 | 1.35 | 720.070 |
| PCB-189 | 4.99e+07 | 1.06 y | 1.54 | 52:26 | 1.000 | 0.995-1.005 | 54.4655 | 37.5-62.5 | Total Tetra-PCB | 2.98e+09 | 0.77 y | 28:05 | 1.17 | 1990.78 |
| | | | | | | | | | Total Penta-PCB | 1.93e+09 | 1.61 y | 32:46 | 1.21 | 2262.59 |
| PCB-202 | 3.46e+07 | 0.90 y | 1.04 | 48:24 | 1.001 | 0.995-1.005 | 53.4901 | | Total Penta-PCB | 3.23e+08 | 1.58 y | 42:19 | 1.26 | 273.700 |
| PCB-201 | 3.62e+07 | 0.91 y | 1.10 | 48:53 | 1.011 | 1.006-1.016 | 52.8973 | | Total Hexa-PCB | 4.01e+08 | 1.30 y | 37:09 | 0.92 | 771.319 |
| PCB-204 | 3.26e+07 | 0.92 y | 0.99 | 49:02 | 1.014 | 1.009-1.019 | 52.8383 | | Total Hexa-PCB | 1.55e+09 | 1.22 y | 42:15 | 1.08 | 1457.52 |
| PCB-197 | 3.54e+07 | 0.90 y | 1.07 | 49:20 | 1.020 | 1.015-1.025 | 53.1034 | | Total Hepta-PCB | 1.12e+09 | 1.05 y | 42:58 | 1.27 | 1311.25 |
| PCB-200 | 3.48e+07 | 0.89 y | 1.02 | 50:13 | 1.038 | 1.032-1.044 | 55.0493 | | Total Octa-PCB | 2.73e+08 | 0.90 y | 48:24 | 0.92 | 479.380 |
| PCB-198 | 2.29e+07 | 0.90 y | 0.74 | 51:31 | 1.065 | 1.058-1.068 | 49.6083 | | Total Octa-PCB | 1.17e+08 | 0.88 y | 53:04 | 1.29 | 151.489 |
| PCB-199 | 2.51e+07 | 0.91 y | 0.73 | 51:38 | 1.068 | 1.060-1.070 | 55.4673 | | Total Nona-PCB | 1.20e+08 | 1.32 y | 53:12 | 0.96 | 148.417 |
| - PCB-196/203 | 5.13e+07 | 0.90 y | 0.77 | 51:54 | 1.073 | 1.066-1.076 | 106.900 | | Total Deca-PCB | 4.43e+07 | 1.20 y | 56:54 | 1.18 | 53.4298 |
| - PCB-195 | 3.45e+07 | 0.88 y | 1.20 | 53:04 | 0.985 | 0.979-0.989 | 47.8565 | | | | | | | |
| PCB-194 | 3.52e+07 | 0.90 y | 1.25 | 53:55 | 1.000 | 0.995-1.005 | 46.9725 | | | | | | | |
| PCB-205 | 4.19e+07 | 0.90 y | 1.41 | 54:12 | 1.006 | 1.001-1.011 | 49.3176 | | | | | | | |
| | | | | | | | | | | | | | | Total PCB Conc:11053.8969400 |
| PCB-208 | 4.50e+07 | 1.32 y | 0.96 | 53:12 | 1.000 | 0.995-1.005 | 47.8518 | | | | | | | |
| PCB-207 | 4.36e+07 | 1.32 y | 0.92 | 53:31 | 1.006 | 1.001-1.011 | 48.5987 | | | | | | | |
| PCB-206 | 2.84e+07 | 1.33 y | 1.03 | 55:34 | 1.000 | 0.995-1.005 | 48.8366 | | | | | | | |
| PCB-209 | 4.43e+07 | 1.20 y | 1.18 | 56:54 | 1.000 | 0.995-1.005 | 53.4298 | | | | | | | |

* used for PCB 189 only

RL: MONO, TRI - DECA: _____

Integrations

by

Analyst: DMS

Date: 9/24/14

Client ID: PCB CS3 14F1901
Lab ID: ST140923E1-1

Filename: 140923E1 S:1 Acq:23-SEP-14 14:00:03
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000

ConCal: ST140923E1-1
EndCAL: NA

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec | CRS vs. RS | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec |
|-------------|----------|--------|------|-------|-------|-------------|-----|------|------|------------|-------------|----------|--------|------|-------|-------|-------------|-----|------|-----|
| 13C-PCB-1 | 1.97e+08 | 3.35 y | 0.89 | 16:12 | 0.623 | 0.622-0.628 | | 117 | 117 | | | | | | | | | | | |
| 13C-PCB-3 | 1.93e+08 | 3.40 y | 0.93 | 18:49 | 0.723 | 0.721-0.729 | | 110 | 110 | | 13C-PCB-79 | 1.66e+08 | 0.80 y | 1.01 | 37:54 | 1.028 | 1.023-1.033 | | 107 | 107 |
| 13C-PCB-4 | 1.06e+08 | 1.59 y | 0.55 | 20:09 | 0.775 | 0.772-0.780 | | 102 | 102 | | 13C-PCB-178 | 5.99e+07 | 0.46 y | 0.63 | 45:44 | 0.985 | 0.979-0.989 | | 105 | 105 |
| 13C-PCB-9 | 1.60e+08 | 1.57 y | 0.83 | 21:56 | 0.843 | 0.840-0.848 | | 102 | 102 | | | | | | | | | | | |
| 13C-PCB-11 | 1.75e+08 | 1.55 y | 0.94 | 25:19 | 0.973 | 0.968-0.978 | | 98.6 | 98.6 | | | | | | | | | | | |
| 13C-PCB-19 | 9.97e+07 | 1.10 y | 0.53 | 24:18 | 0.934 | 0.929-0.939 | | 98.8 | 98.8 | | | | | | | | | | | |
| 13C-PCB-28 | 1.42e+08 | 1.05 y | 0.89 | 29:11 | 1.004 | 0.999-1.009 | | 95.9 | 95.9 | | 13C-PCB-79 | 1.66e+08 | 0.80 y | 1.20 | 37:54 | 0.968 | 0.963-0.973 | | 109 | 109 |
| 13C-PCB-32 | 1.47e+08 | 1.09 y | 0.81 | 27:13 | 1.046 | 1.041-1.051 | | 95.5 | 95.5 | | 13C-PCB-178 | 5.99e+07 | 0.46 y | 0.94 | 45:44 | 0.925 | 0.920-0.930 | | 112 | 112 |
| 13C-PCB-37 | 1.27e+08 | 1.05 y | 0.83 | 33:03 | 1.137 | 1.131-1.143 | | 91.3 | 91.3 | | | | | | | | | | | |
| 13C-PCB-47 | 1.17e+08 | 0.77 y | 0.74 | 32:06 | 0.871 | 0.867-0.875 | | 102 | 102 | | | | | | | | | | | |
| 13C-PCB-52 | 1.15e+08 | 0.80 y | 0.71 | 31:35 | 0.857 | 0.853-0.861 | | 106 | 106 | | | | | | | | | | | |
| 13C-PCB-54 | 1.42e+08 | 0.82 y | 0.85 | 28:03 | 0.761 | 0.758-0.766 | | 108 | 108 | | | | | | | | | | | |
| 13C-PCB-70 | 1.42e+08 | 0.79 y | 0.94 | 35:36 | 0.966 | 0.961-0.971 | | 97.4 | 97.4 | | | | | | | | | | | |
| 13C-PCB-77 | 1.34e+08 | 0.79 y | 0.89 | 39:44 | 1.078 | 1.073-1.083 | | 97.3 | 97.3 | | | | | | | | | | | |
| 13C-PCB-80 | 1.45e+08 | 0.78 y | 0.96 | 36:01 | 0.977 | 0.972-0.982 | | 97.8 | 97.8 | | | | | | | | | | | |
| 13C-PCB-81 | 1.26e+08 | 0.79 y | 0.84 | 39:08 | 1.062 | 1.057-1.067 | | 97.4 | 97.4 | | | | | | | | | | | |
| 13C-PCB-95 | 6.37e+07 | 1.63 y | 0.74 | 35:54 | 0.913 | 0.908-0.918 | | 100 | 100 | | | | | | | | | | | |
| 13C-PCB-97 | 5.94e+07 | 1.59 y | 0.69 | 38:54 | 0.989 | 0.984-0.994 | | 101 | 101 | | | | | | | | | | | |
| 13C-PCB-101 | 6.64e+07 | 1.61 y | 0.79 | 37:36 | 0.956 | 0.951-0.961 | | 98.9 | 98.9 | | | | | | | | | | | |
| 13C-PCB-104 | 8.81e+07 | 1.60 y | 1.00 | 32:45 | 0.833 | 0.829-0.837 | | 104 | 104 | | 13C-PCB-15 | 1.90e+08 | 1.56 y | 1.00 | 26:01 | | | 100 | | |
| 13C-PCB-105 | 9.48e+07 | 1.58 y | 1.24 | 43:10 | 0.929 | 0.924-0.934 | | 84.8 | 84.8 | | 13C-PCB-31 | 1.67e+08 | 1.04 y | 1.00 | 29:04 | | | 100 | | |
| 13C-PCB-114 | 9.16e+07 | 1.61 y | 1.21 | 42:18 | 0.911 | 0.905-0.915 | | 84.1 | 84.1 | | 13C-PCB-60 | 1.54e+08 | 0.78 y | 1.00 | 36:51 | | | 100 | | |
| 13C-PCB-118 | 8.01e+07 | 1.60 y | 0.98 | 41:38 | 1.059 | 1.054-1.064 | | 95.2 | 95.2 | | 13C-PCB-111 | 8.55e+07 | 1.60 y | 1.00 | 39:19 | | | 100 | | |
| 13C-PCB-123 | 7.59e+07 | 1.60 y | 0.95 | 41:27 | 1.054 | 1.049-1.059 | | 93.5 | 93.5 | | 13C-PCB-128 | 9.03e+07 | 1.25 y | 1.00 | 46:27 | | | 100 | | |
| 13C-PCB-126 | 8.83e+07 | 1.60 y | 1.16 | 45:24 | 0.977 | 0.972-0.982 | | 84.1 | 84.1 | | 13C-PCB-205 | 7.61e+07 | 0.88 y | 1.00 | 54:11 | | | 100 | | |
| 13C-PCB-127 | 1.03e+08 | 1.53 y | 1.34 | 43:29 | 0.936 | 0.931-0.941 | | 84.5 | 84.5 | | | | | | | | | | | |
| 13C-PCB-138 | 9.16e+07 | 1.26 y | 1.04 | 44:54 | 0.967 | 0.961-0.971 | | 97.2 | 97.2 | | | | | | | | | | | |
| 13C-PCB-141 | 9.24e+07 | 1.28 y | 1.07 | 44:03 | 0.948 | 0.943-0.953 | | 95.4 | 95.4 | | | | | | | | | | | |
| 13C-PCB-153 | 9.51e+07 | 1.25 y | 1.11 | 43:19 | 0.933 | 0.927-0.937 | | 94.6 | 94.6 | | | | | | | | | | | |
| 13C-PCB-155 | 5.65e+07 | 1.28 y | 0.83 | 37:08 | 0.944 | 0.939-0.949 | | 79.5 | 79.5 | | | | | | | | | | | |
| 13C-PCB-156 | 1.08e+08 | 1.27 y | 1.24 | 48:09 | 1.037 | 1.032-1.042 | | 95.9 | 95.9 | | | | | | | | | | | |
| 13C-PCB-157 | 1.18e+08 | 1.30 y | 1.31 | 48:25 | 1.042 | 1.037-1.047 | | 99.4 | 99.4 | | | | | | | | | | | |
| 13C-PCB-159 | 1.04e+08 | 1.28 y | 1.20 | 46:11 | 0.994 | 0.989-0.999 | | 96.0 | 96.0 | | | | | | | | | | | |
| 13C-PCB-167 | 1.12e+08 | 1.27 y | 1.32 | 46:52 | 1.009 | 1.004-1.014 | | 94.1 | 94.1 | | | | | | | | | | | |
| 13C-PCB-169 | 1.00e+08 | 1.27 y | 1.22 | 50:34 | 1.089 | 1.082-1.092 | | 91.4 | 91.4 | | | | | | | | | | | |
| 13C-PCB-170 | 4.55e+07 | 0.47 y | 0.54 | 50:56 | 1.097 | 1.089-1.101 | | 94.1 | 94.1 | | | | | | | | | | | |
| 13C-PCB-180 | 5.70e+07 | 0.46 y | 0.67 | 49:27 | 1.065 | 1.059-1.069 | | 93.7 | 93.7 | | | | | | | | | | | |
| 13C-PCB-188 | 7.97e+07 | 0.48 y | 0.94 | 42:57 | 0.925 | 0.919-0.929 | | 94.3 | 94.3 | | | | | | | | | | | |
| 13C-PCB-189 | 5.95e+07 | 0.47 y | 0.72 | 52:25 | 1.128 | 1.120-1.132 | | 92.0 | 92.0 | | | | | | | | | | | |
| 13C-PCB-194 | 6.01e+07 | 0.89 y | 0.81 | 53:54 | 0.995 | 0.990-1.000 | | 97.4 | 97.4 | | | | | | | | | | | |
| 13C-PCB-202 | 6.21e+07 | 0.91 y | 0.83 | 48:22 | 1.041 | 1.036-1.046 | | 82.5 | 82.5 | | | | | | | | | | | |
| 13C-PCB-206 | 5.66e+07 | 0.80 y | 0.66 | 55:33 | 1.025 | 1.021-1.031 | | 113 | 113 | | | | | | | | | | | |
| 13C-PCB-208 | 9.78e+07 | 0.77 y | 1.12 | 53:12 | 0.982 | 0.976-0.986 | | 114 | 114 | | | | | | | | | | | |
| 13C-PCB-209 | 7.05e+07 | 1.20 y | 0.61 | 56:53 | 1.050 | 1.044-1.054 | | 151 | 151 | | | | | | | | | | | |

* used only (50-145%)
Analyst: DMS

Date: 9/24/14

Vista Analytical Laboratory - Injection Log Run file: 140923E1 Instrument ID: VG-8 GC Column ID: ZB-1

| Data file | S# | Sample ID | Analyst | Acq date | Acq time | CCal | ECal |
|-----------|----|----------------------|---------|-----------|----------|--------------|------|
| 140923E1 | 1 | ST140923E1-1 | DMS | 23-SEP-14 | 14:00:03 | ST140923E1-1 | NA |
| 140923E1 | 2 | ST140923E1-2 | DMS | 23-SEP-14 | 15:04:26 | ST140923E1-2 | NA |
| 140923E1 | 3 | B4I0063-BS1 | DMS | 23-SEP-14 | 16:08:55 | ST140923E1-2 | NA |
| 140923E1 | 4 | SOLVENT BLANK | DMS | 23-SEP-14 | 17:13:19 | NA | NA |
| 140923E1 | 5 | B4I0063-BLK1 | DMS | 23-SEP-14 | 18:17:42 | ST140923E1-2 | NA |
| 140923E1 | 6 | 1400659-02RE1 RI | DMS | 23-SEP-14 | 19:22:06 | ST140923E1-1 | NA |
| 140923E1 | 7 | 1400667-01RE1 DL 1:5 | DMS | 23-SEP-14 | 20:26:29 | ST140923E1-2 | NA |
| 140923E1 | 8 | SOLVENT BLANK | DMS | 23-SEP-14 | 21:30:52 | ST140923E1-2 | NA |
| 140923E1 | 9 | SOLVENT BLANK | DMS | 23-SEP-14 | 22:35:17 | NA | NA |
| 140923E1 | 10 | SOLVENT BLANK | DMS | 23-SEP-14 | 23:39:41 | NA | NA |

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST140923E1-1

End Calibration ID: NA

| | <u>Beg.</u> | <u>End</u> |
|---|---|-----------------------------|
| Ion abundance within QC limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> NA |
| Concentration within range? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| First and last eluters present? | <input checked="" type="checkbox"/> NA | <input type="checkbox"/> |
| Retention Times within criteria? | <input checked="" type="checkbox"/> Dms 9/24/14 | <input type="checkbox"/> |
| Verification Std. named correctly? (ST-Year-Month-Day-VG ID) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Forms signed and dated? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Correct ICAL referenced? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Run Log: | | |
| -Data file matches Conc Cal ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| -Correct instrument listed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| -Samples within 12-hour clock? | <input checked="" type="checkbox"/> y | <input type="checkbox"/> n |

| | <u>Beg.</u> | <u>End</u> |
|--|--|--|
| Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| TCDD/TCDF valleys < 25%? | <input checked="" type="checkbox"/> NA | <input checked="" type="checkbox"/> NA |
| Peaks integrated correctly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Manual integrations included? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8280 CS1 Ending Standard | | |
| -Ratios within limits | | <input type="checkbox"/> |
| -S/N > 2.5:1 | | <input type="checkbox"/> |
| -CS1 within 12-hour clock | | <input checked="" type="checkbox"/> |

Comments: used for PCB 189 only. Dms 9/24/14

Reviewed by: MJ 9/24/14
Initials & Date

* Ending standard criteria applicable to 8290 only.

Lab Name: Vista Analytical Laboratory Lab ID: ST140924E1-2 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140924E1 S#2 Analysis Date: 24-SEP-14 Time: 12:13:31

| 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 | 2.97 | 2.66-3.60 | y | 42.2 | 37.5-62.5 | PCB-52/69 | 0.75 | 0.65-0.89 | y | 99.2 | 75.0-125 |
| PCB-2 | 2.98 | 2.66-3.60 | y | 41.6 | 37.5-62.5 | PCB-73 | 0.74 | 0.65-0.89 | y | 47.8 | 37.5-62.5 |
| PCB-3 | 2.94 | 2.66-3.60 | y | 41.7 | 37.5-62.5 | PCB-43/49 | 0.73 | 0.65-0.89 | y | 96.4 | 75.0-125 |
| PCB-4/10 | 1.61 | 1.33-1.79 | y | 195.3 | 150-250 | PCB-47 | 0.74 | 0.65-0.89 | y | 51.1 | 37.5-62.5 |
| PCB-7/9 | 1.61 | 1.33-1.79 | y | 194.9 | 150-250 | PCB-48/75 | 0.75 | 0.65-0.89 | y | 94.9 | 75.0-125 |
| PCB-6 | 1.61 | 1.33-1.79 | y | 94.1 | 75.0-125 | PCB-65 | 0.74 | 0.65-0.89 | y | 48.5 | 37.5-62.5 |
| PCB-5/8 | 1.61 | 1.33-1.79 | y | 193.8 | 150-250 | PCB-62 | 0.75 | 0.65-0.89 | y | 49.4 | 37.5-62.5 |
| PCB-14 | 1.62 | 1.33-1.79 | y | 101.3 | 75.0-125 | PCB-44 | 0.75 | 0.65-0.89 | y | 48.7 | 37.5-62.5 |
| PCB-11 | 1.62 | 1.33-1.79 | y | 99.3 | 75.0-125 | PCB-42/59 | 0.75 | 0.65-0.89 | y | 97.4 | 75.0-125 |
| PCB-12/13 | 1.62 | 1.33-1.79 | y | 194.2 | 150-250 | PCB-41/64/71/72 | 0.74 | 0.65-0.89 | y | 192.0 | 150-250 |
| PCB-15 | 1.63 | 1.33-1.79 | y | 96.7 | 75.0-125 | PCB-68 | 0.75 | 0.65-0.89 | y | 48.0 | 37.5-62.5 |
| PCB-19 | 1.06 | 0.88-1.20 | y | 49.4 | 37.5-62.5 | PCB-40 | 0.76 | 0.65-0.89 | y | 50.6 | 37.5-62.5 |
| PCB-30 | 1.05 | 0.88-1.20 | y | 49.2 | 37.5-62.5 | PCB-57 | 0.74 | 0.65-0.89 | y | 49.8 | 37.5-62.5 |
| PCB-18 | 1.05 | 0.88-1.20 | y | 50.9 | 37.5-62.5 | PCB-67 | 0.74 | 0.65-0.89 | y | 45.8 | 37.5-62.5 |
| PCB-17 | 1.05 | 0.88-1.20 | y | 50.0 | 37.5-62.5 | PCB-58 | 0.75 | 0.65-0.89 | y | 50.2 | 37.5-62.5 |
| PCB-24/27 | 1.05 | 0.88-1.20 | y | 99.7 | 75.0-125 | PCB-63 | 0.75 | 0.65-0.89 | y | 47.6 | 37.5-62.5 |
| PCB-16/32 | 1.05 | 0.88-1.20 | y | 99.1 | 75.0-125 | PCB-74 | 0.76 | 0.65-0.89 | y | 47.3 | 37.5-62.5 |
| PCB-34 | 1.01 | 0.88-1.20 | y | 41.5 | 37.5-62.5 | PCB-61/70 | 0.75 | 0.65-0.89 | y | 98.9 | 75.0-125 |
| PCB-23 | 0.99 | 0.88-1.20 | y | 44.2 | 37.5-62.5 | PCB-76/66 | 0.75 | 0.65-0.89 | y | 94.4 | 75.0-125 |
| PCB-29 | 1.00 | 0.88-1.20 | y | 44.4 | 37.5-62.5 | PCB-80 | 0.74 | 0.65-0.89 | y | 50.8 | 37.5-62.5 |
| PCB-26 | 1.01 | 0.88-1.20 | y | 46.2 | 37.5-62.5 | PCB-55 | 0.75 | 0.65-0.89 | y | 49.6 | 37.5-62.5 |
| PCB-25 | 1.00 | 0.88-1.20 | y | 46.1 | 37.5-62.5 | PCB-56/60 | 0.74 | 0.65-0.89 | y | 97.8 | 75.0-125 |
| PCB-31 | 1.01 | 0.88-1.20 | y | 44.5 | 37.5-62.5 | PCB-79 | 0.76 | 0.65-0.89 | y | 50.5 | 37.5-62.5 |
| PCB-28 | 1.01 | 0.88-1.20 | y | 47.6 | 37.5-62.5 | PCB-78 | 0.74 | 0.65-0.89 | y | 47.8 | 37.5-62.5 |
| PCB-20/21/33 | 1.00 | 0.88-1.20 | y | 137.5 | 112.5-225 | PCB-81 | 0.76 | 0.65-0.89 | y | 48.6 | 37.5-62.5 |
| PCB-22 | 1.01 | 0.88-1.20 | y | 46.1 | 37.5-62.5 | PCB-77 | 0.78 | 0.65-0.89 | y | 49.2 | 37.5-62.5 |
| PCB-36 | 0.99 | 0.88-1.20 | y | 48.7 | 37.5-62.5 | PCB-104 | 1.57 | 1.32-1.78 | y | 52.4 | 37.5-62.5 |
| PCB-39 | 0.99 | 0.88-1.20 | y | 48.2 | 37.5-62.5 | PCB-96 | 1.57 | 1.32-1.78 | y | 51.4 | 37.5-62.5 |
| PCB-38 | 0.99 | 0.88-1.20 | y | 48.1 | 37.5-62.5 | PCB-103 | 1.58 | 1.32-1.78 | y | 50.0 | 37.5-62.5 |
| PCB-35 | 0.99 | 0.88-1.20 | y | 52.5 | 37.5-62.5 | PCB-100 | 1.57 | 1.32-1.78 | y | 50.5 | 37.5-62.5 |
| PCB-37 | 1.01 | 0.88-1.20 | y | 48.7 | 37.5-62.5 | PCB-94 | 1.57 | 1.32-1.78 | y | 50.5 | 37.5-62.5 |
| PCB-54 | 0.74 | 0.65-0.89 | y | 47.6 | 37.5-62.5 | PCB-95/98/102 | 1.56 | 1.32-1.78 | y | 148.7 | 112.5-225 |
| PCB-50 | 0.74 | 0.65-0.89 | y | 48.9 | 37.5-62.5 | PCB-93 | 1.64 | 1.32-1.78 | y | 60.7 | 37.5-62.5 |
| PCB-53 | 0.76 | 0.65-0.89 | y | 50.6 | 37.5-62.5 | PCB-88/91 | 1.56 | 1.32-1.78 | y | 100.2 | 75.0-125 |
| PCB-51 | 0.75 | 0.65-0.89 | y | 50.2 | 37.5-62.5 | PCB-121 | 1.60 | 1.32-1.78 | y | 52.4 | 37.5-62.5 |
| PCB-45 | 0.74 | 0.65-0.89 | y | 48.3 | 37.5-62.5 | | | | | | |
| PCB-46 | 0.74 | 0.65-0.89 | y | 48.0 | 37.5-62.5 | | | | | | |

Analyst: *DMS*

Date: *9/24/14*

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140924E1-2 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140924E1 #2 Analysis Date: 24-SEP-14 Time: 12:13:31

| 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 | 102.2 | 75.0-125 | PCB-140 | 1.27 | 1.05-1.43 | y | 52.3 | 37.5-62.5 |
| PCB-89 | 1.58 | 1.32-1.78 | y | 51.9 | 37.5-62.5 | PCB-134/143 | 1.20 | 1.05-1.43 | y | 98.5 | 75.0-125 |
| PCB-90/101 | 1.60 | 1.32-1.78 | y | 104.0 | 75.0-125 | PCB-133/142 | 1.21 | 1.05-1.43 | y | 98.0 | 75.0-125 |
| PCB-113 | 1.57 | 1.32-1.78 | y | 47.6 | 37.5-62.5 | PCB-131 | 1.22 | 1.05-1.43 | y | 47.1 | 37.5-62.5 |
| PCB-99 | 1.61 | 1.32-1.78 | y | 56.6 | 37.5-62.5 | PCB-146/165 | 1.22 | 1.05-1.43 | y | 92.1 | 75.0-125 |
| PCB-119 | 1.58 | 1.32-1.78 | y | 50.4 | 37.5-62.5 | PCB-132/161 | 1.23 | 1.05-1.43 | y | 91.9 | 75.0-125 |
| PCB-108/112 | 1.59 | 1.32-1.78 | y | 101.0 | 75.0-125 | PCB-153 | 1.22 | 1.05-1.43 | y | 46.0 | 37.5-62.5 |
| PCB-83 | 1.58 | 1.32-1.78 | y | 48.8 | 37.5-62.5 | PCB-168 | 1.23 | 1.05-1.43 | y | 47.8 | 37.5-62.5 |
| PCB-97 | 1.60 | 1.32-1.78 | y | 50.8 | 37.5-62.5 | PCB-141 | 1.24 | 1.05-1.43 | y | 47.1 | 37.5-62.5 |
| PCB-86 | 1.57 | 1.32-1.78 | y | 56.6 | 37.5-62.5 | PCB-137 | 1.19 | 1.05-1.43 | y | 46.8 | 37.5-62.5 |
| PCB-87/117/125 | 1.57 | 1.32-1.78 | y | 154.4 | 112.5-225 | PCB-130 | 1.21 | 1.05-1.43 | y | 43.5 | 37.5-62.5 |
| PCB-111/115 | 1.57 | 1.32-1.78 | y | 99.4 | 75.0-125 | PCB-138/163/164 | 1.21 | 1.05-1.43 | y | 140.2 | 112.5-225 |
| PCB-85/116 | 1.58 | 1.32-1.78 | y | 106.8 | 75.0-125 | PCB-158/160 | 1.19 | 1.05-1.43 | y | 92.3 | 75.0-125 |
| PCB-120 | 1.59 | 1.32-1.78 | y | 50.5 | 37.5-62.5 | PCB-129 | 1.21 | 1.05-1.43 | y | 49.2 | 37.5-62.5 |
| PCB-110 | 1.61 | 1.32-1.78 | y | 51.0 | 37.5-62.5 | PCB-166 | 1.20 | 1.05-1.43 | y | 47.0 | 37.5-62.5 |
| PCB-82 | 1.60 | 1.32-1.78 | y | 54.9 | 37.5-62.5 | PCB-159 | 1.25 | 1.05-1.43 | y | 48.6 | 37.5-62.5 |
| PCB-124 | 1.55 | 1.32-1.78 | y | 52.3 | 37.5-62.5 | PCB-128/162 | 1.21 | 1.05-1.43 | y | 96.7 | 75.0-125 |
| PCB-107/109 | 1.59 | 1.32-1.78 | y | 104.5 | 75.0-125 | PCB-167 | 1.20 | 1.05-1.43 | y | 47.6 | 37.5-62.5 |
| PCB-123 | 1.59 | 1.32-1.78 | y | 50.5 | 37.5-62.5 | PCB-156 | 1.19 | 1.05-1.43 | y | 48.2 | 37.5-62.5 |
| PCB-106/118 | 1.58 | 1.32-1.78 | y | 104.0 | 75.0-125 | PCB-157 | 1.22 | 1.05-1.43 | y | 45.3 | 37.5-62.5 |
| PCB-114 | 1.59 | 1.32-1.78 | y | 52.6 | 37.5-62.5 | PCB-169 | 1.22 | 1.05-1.43 | y | 45.1 | 37.5-62.5 |
| PCB-122 | 1.63 | 1.32-1.78 | y | 52.6 | 37.5-62.5 | PCB-188 | 1.04 | 0.89-1.21 | y | 48.7 | 37.5-62.5 |
| PCB-105 | 1.59 | 1.32-1.78 | y | 53.5 | 37.5-62.5 | PCB-184 | 1.04 | 0.89-1.21 | y | 47.7 | 37.5-62.5 |
| PCB-127 | 1.65 | 1.32-1.78 | y | 52.6 | 37.5-62.5 | PCB-179 | 1.04 | 0.89-1.21 | y | 46.6 | 37.5-62.5 |
| PCB-126 | 1.64 | 1.32-1.78 | y | 54.9 | 37.5-62.5 | PCB-176 | 1.06 | 0.89-1.21 | y | 44.7 | 37.5-62.5 |
| PCB-155 | 1.29 | 1.05-1.43 | y | 51.7 | 37.5-62.5 | PCB-186 | 1.04 | 0.89-1.21 | y | 47.5 | 37.5-62.5 |
| PCB-150 | 1.27 | 1.05-1.43 | y | 52.4 | 37.5-62.5 | PCB-178 | 1.04 | 0.89-1.21 | y | 46.1 | 37.5-62.5 |
| PCB-152 | 1.28 | 1.05-1.43 | y | 52.6 | 37.5-62.5 | PCB-175 | 1.04 | 0.89-1.21 | y | 45.0 | 37.5-62.5 |
| PCB-145 | 1.27 | 1.05-1.43 | y | 53.4 | 37.5-62.5 | PCB-182/187 | 1.06 | 0.89-1.21 | y | 91.2 | 75.0-125 |
| PCB-136 | 1.29 | 1.05-1.43 | y | 53.9 | 37.5-62.5 | PCB-183 | 1.06 | 0.89-1.21 | y | 48.7 | 37.5-62.5 |
| PCB-148 | 1.26 | 1.05-1.43 | y | 50.2 | 37.5-62.5 | PCB-185 | 1.07 | 0.89-1.21 | y | 51.2 | 37.5-62.5 |
| PCB-154 | 1.28 | 1.05-1.43 | y | 52.0 | 37.5-62.5 | PCB-174 | 1.18 | 0.89-1.21 | y | 52.5 | 37.5-62.5 |
| PCB-151 | 1.28 | 1.05-1.43 | y | 51.7 | 37.5-62.5 | PCB-181 | 0.93 | 0.89-1.21 | y | 50.4 | 37.5-62.5 |
| PCB-135 | 1.25 | 1.05-1.43 | y | 50.9 | 37.5-62.5 | PCB-177 | 1.04 | 0.89-1.21 | y | 50.6 | 37.5-62.5 |
| PCB-144 | 1.36 | 1.05-1.43 | y | 54.7 | 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 | 53.9 | 37.5-62.5 | PCB-173 | 1.05 | 0.89-1.21 | y | 50.2 | 37.5-62.5 |
| PCB-139/149 | 1.28 | 1.05-1.43 | y | 106.4 | 75.0-125 | PCB-172 | 1.04 | 0.89-1.21 | y | 49.0 | 37.5-62.5 |

Analyst: DMS

Date: 9/24/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140924E1-2 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140924E1 S#2 Analysis Date: 24-SEP-14 Time: 12:13:31

| ANALYTES | ION | QC | PASS | CONC. | CONC. |
|-------------|--------|-----------|------|---------|-----------|
| | ABUND. | LIMITS | | FOUND | RANGE |
| | RATIO | | | (ng/mL) | |
| PCB-192 | 1.02 | 0.89-1.21 | y | 48.8 | 37.5-62.5 |
| PCB-180 | 1.05 | 0.89-1.21 | y | 48.3 | 37.5-62.5 |
| PCB-193 | 1.04 | 0.89-1.21 | y | 48.3 | 37.5-62.5 |
| PCB-191 | 1.07 | 0.89-1.21 | y | 46.7 | 37.5-62.5 |
| PCB-170 | 1.04 | 0.89-1.21 | y | 48.6 | 37.5-62.5 |
| PCB-190 | 1.06 | 0.89-1.21 | y | 45.0 | 37.5-62.5 |
| PCB-189 | 1.03 | 0.89-1.21 | y | 48.5 | 37.5-62.5 |
| PCB-202 | 0.90 | 0.76-1.02 | y | 49.1 | 37.5-62.5 |
| PCB-201 | 0.89 | 0.76-1.02 | y | 47.4 | 37.5-62.5 |
| PCB-204 | 0.88 | 0.76-1.02 | y | 46.5 | 37.5-62.5 |
| PCB-197 | 0.88 | 0.76-1.02 | y | 46.7 | 37.5-62.5 |
| PCB-200 | 0.91 | 0.76-1.02 | y | 46.5 | 37.5-62.5 |
| PCB-198 | 0.90 | 0.76-1.02 | y | 43.3 | 37.5-62.5 |
| PCB-199 | 0.90 | 0.76-1.02 | y | 47.4 | 37.5-62.5 |
| PCB-196/203 | 0.90 | 0.76-1.02 | y | 92.1 | 75.0-125 |
| PCB-195 | 0.90 | 0.76-1.02 | y | 53.7 | 37.5-62.5 |
| PCB-194 | 0.91 | 0.76-1.02 | y | 48.8 | 37.5-62.5 |
| PCB-205 | 0.91 | 0.76-1.02 | y | 51.7 | 37.5-62.5 |
| PCB-208 | 1.31 | 1.14-1.54 | y | 48.7 | 37.5-62.5 |
| PCB-207 | 1.31 | 1.14-1.54 | y | 46.4 | 37.5-62.5 |
| PCB-206 | 1.29 | 1.14-1.54 | y | 47.7 | 37.5-62.5 |
| PCB-209 | 1.18 | 0.99-1.33 | y | 50.1 | 37.5-62.5 |

Analyst: DMS

Date: 9/24/14

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140924E1-2 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140924E1 S#2 Analysis Date: 24-SEP-14 Time: 12:13:31

| LABELED IS | ION | | | CONC. | | LABELED IS | ION | | | CONC. | |
|-------------|--------------|-----------|------|-------------|---------------|-------------|--------------|-----------|------|-------------|---------------|
| | ABUND. RATIO | QC LIMITS | PASS | CONC. FOUND | RANGE (ng/mL) | | ABUND. RATIO | QC LIMITS | PASS | CONC. FOUND | RANGE (ng/mL) |
| 13C-PCB-1 | 3.26 | 2.66-3.60 | y | 134.9 | 50.0-145 | 13C-PCB-169 | 1.27 | 1.05-1.43 | y | 84.4 | 50 - 145 |
| 13C-PCB-3 | 3.34 | 2.66-3.60 | y | 132.7 | 50.0-145 | 13C-PCB-188 | 0.47 | 0.38-0.52 | y | 108.1 | 50 - 145 |
| 13C-PCB-4 | 1.61 | 1.33-1.79 | y | 104.7 | 50.0-145 | 13C-PCB-180 | 0.46 | 0.38-0.52 | y | 97.2 | 50 - 145 |
| 13C-PCB-9 | 1.58 | 1.33-1.79 | y | 102.6 | 50.0-145 | 13C-PCB-170 | 0.46 | 0.38-0.52 | y | 98.9 | 50 - 145 |
| 13C-PCB-11 | 1.58 | 1.33-1.79 | y | 100.0 | 50.0-145 | 13C-PCB-189 | 0.47 | 0.38-0.52 | y | 90.0 | 50 - 145 |
| 13C-PCB-19 | 1.09 | 0.88-1.20 | y | 112.9 | 50.0-145 | 13C-PCB-202 | 0.92 | 0.76-1.02 | y | 100.7 | 50 - 145 |
| 13C-PCB-32 | 1.09 | 0.88-1.20 | y | 111.6 | 50.0-145 | 13C-PCB-194 | 0.91 | 0.76-1.02 | y | 97.0 | 50 - 145 |
| 13C-PCB-28 | 1.03 | 0.88-1.20 | y | 108.4 | 50.0-145 | 13C-PCB-208 | 0.76 | 0.65-0.89 | y | 116.9 | 50 - 145 |
| 13C-PCB-37 | 1.06 | 0.88-1.20 | y | 100.0 | 50.0-145 | 13C-PCB-206 | 0.78 | 0.65-0.89 | y | 114.6 | 50 - 145 |
| 13C-PCB-54 | 0.79 | 0.65-0.89 | y | 101.2 | 50.0-145 | 13C-PCB-209 | 1.21 | 0.99-1.33 | y | 121.2 | 50 - 145 |
| 13C-PCB-52 | 0.79 | 0.65-0.89 | y | 101.1 | 50.0-145 | | | | | | |
| 13C-PCB-47 | 0.78 | 0.65-0.89 | y | 102.1 | 50.0-145 | | | | | | |
| 13C-PCB-70 | 0.78 | 0.65-0.89 | y | 99.6 | 50.0-145 | | | | | | |
| 13C-PCB-80 | 0.79 | 0.65-0.89 | y | 98.7 | 50.0-145 | | | | | | |
| 13C-PCB-81 | 0.78 | 0.65-0.89 | y | 101.9 | 50.0-145 | | | | | | |
| 13C-PCB-77 | 0.78 | 0.65-0.89 | y | 98.1 | 50.0-145 | | | | | | |
| 13C-PCB-104 | 1.55 | 1.32-1.78 | y | 99.2 | 50.0-145 | | | | | | |
| 13C-PCB-95 | 1.59 | 1.32-1.78 | y | 98.7 | 50.0-145 | | | | | | |
| 13C-PCB-101 | 1.63 | 1.32-1.78 | y | 96.8 | 50.0-145 | | | | | | |
| 13C-PCB-97 | 1.59 | 1.32-1.78 | y | 100.6 | 50.0-145 | CRS vs. RS | | | | | |
| 13C-PCB-123 | 1.60 | 1.32-1.78 | y | 98.3 | 50.0-145 | 13C-PCB-79 | 0.79 | 0.65-0.89 | y | 99.5 | 75 - 125 |
| 13C-PCB-118 | 1.62 | 1.32-1.78 | y | 96.3 | 50.0-145 | 13C-PCB-178 | 0.47 | 0.38-0.52 | y | 102.6 | 75 - 125 |
| 13C-PCB-114 | 1.58 | 1.32-1.78 | y | 85.8 | 50.0-145 | | | | | | |
| 13C-PCB-105 | 1.52 | 1.32-1.78 | y | 79.5 | 50.0-145 | | | | | | |
| 13C-PCB-127 | 1.57 | 1.32-1.78 | y | 81.0 | 50.0-145 | | | | | | |
| 13C-PCB-126 | 1.59 | 1.32-1.78 | y | 74.7 | 50.0-145 | | | | | | |
| 13C-PCB-155 | 1.27 | 1.05-1.43 | y | 91.9 | 50.0-145 | | | | | | |
| 13C-PCB-153 | 1.24 | 1.05-1.43 | y | 98.8 | 50.0-145 | | | | | | |
| 13C-PCB-141 | 1.24 | 1.05-1.43 | y | 95.1 | 50.0-145 | | | | | | |
| 13C-PCB-138 | 1.25 | 1.05-1.43 | y | 94.3 | 50.0-145 | | | | | | |
| 13C-PCB-159 | 1.25 | 1.05-1.43 | y | 93.4 | 50.0-145 | | | | | | |
| 13C-PCB-167 | 1.25 | 1.05-1.43 | y | 95.1 | 50.0-145 | | | | | | |
| 13C-PCB-156 | 1.27 | 1.05-1.43 | y | 90.6 | 50.0-145 | | | | | | |
| 13C-PCB-157 | 1.30 | 1.05-1.43 | y | 92.6 | 50.0-145 | | | | | | |

Analyst: *DMS*

Date: *9/24/14*

NATIVE PCB CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140924E1-2 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140924E1 S#2 Analysis Date: 24-SEP-14 Time: 12:13:31

| 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 | 2.97 | 2.66-3.60 | Y | 42.2 | 35.0-65.0 | PCB-52/69 | 0.75 | 0.65-0.89 | Y | 99.2 | 70.0-130 |
| PCB-2 | 2.98 | 2.66-3.60 | Y | 41.6 | 35.0-65.0 | PCB-73 | 0.74 | 0.65-0.89 | Y | 47.8 | 35.0-65.0 |
| PCB-3 | 2.94 | 2.66-3.60 | Y | 41.7 | 35.0-65.0 | PCB-43/49 | 0.73 | 0.65-0.89 | Y | 96.4 | 70.0-130 |
| PCB-4/10 | 1.61 | 1.33-1.79 | Y | 195.3 | 140-260 | PCB-47 | 0.74 | 0.65-0.89 | Y | 51.1 | 35.0-65.0 |
| PCB-7/9 | 1.61 | 1.33-1.79 | Y | 194.9 | 140-260 | PCB-48/75 | 0.75 | 0.65-0.89 | Y | 94.9 | 70.0-130 |
| PCB-6 | 1.61 | 1.33-1.79 | Y | 94.1 | 70.0-130 | PCB-65 | 0.74 | 0.65-0.89 | Y | 48.5 | 35.0-65.0 |
| PCB-5/8 | 1.61 | 1.33-1.79 | Y | 193.8 | 140-260 | PCB-62 | 0.75 | 0.65-0.89 | Y | 49.4 | 35.0-65.0 |
| PCB-14 | 1.62 | 1.33-1.79 | Y | 101.3 | 70.0-130 | PCB-44 | 0.75 | 0.65-0.89 | Y | 48.7 | 35.0-65.0 |
| PCB-11 | 1.62 | 1.33-1.79 | Y | 99.3 | 70.0-130 | PCB-42/59 | 0.75 | 0.65-0.89 | Y | 97.4 | 70.0-130 |
| PCB-12/13 | 1.62 | 1.33-1.79 | Y | 194.2 | 140-260 | PCB-41/64/71/72 | 0.74 | 0.65-0.89 | Y | 192.0 | 140-260 |
| PCB-15 | 1.63 | 1.33-1.79 | Y | 96.7 | 70.0-130 | PCB-68 | 0.75 | 0.65-0.89 | Y | 48.0 | 35.0-65.0 |
| PCB-19 | 1.06 | 0.88-1.20 | Y | 49.4 | 35.0-65.0 | PCB-40 | 0.76 | 0.65-0.89 | Y | 50.6 | 35.0-65.0 |
| PCB-30 | 1.05 | 0.88-1.20 | Y | 49.2 | 35.0-65.0 | PCB-57 | 0.74 | 0.65-0.89 | Y | 49.8 | 35.0-65.0 |
| PCB-18 | 1.05 | 0.88-1.20 | Y | 50.9 | 35.0-65.0 | PCB-67 | 0.74 | 0.65-0.89 | Y | 45.8 | 35.0-65.0 |
| PCB-17 | 1.05 | 0.88-1.20 | Y | 50.0 | 35.0-65.0 | PCB-58 | 0.75 | 0.65-0.89 | Y | 50.2 | 35.0-65.0 |
| PCB-24/27 | 1.05 | 0.88-1.20 | Y | 99.7 | 70.0-130 | PCB-63 | 0.75 | 0.65-0.89 | Y | 47.6 | 35.0-65.0 |
| PCB-16/32 | 1.05 | 0.88-1.20 | Y | 99.1 | 70.0-130 | PCB-74 | 0.76 | 0.65-0.89 | Y | 47.3 | 35.0-65.0 |
| PCB-34 | 1.01 | 0.88-1.20 | Y | 41.5 | 35.0-65.0 | PCB-61/70 | 0.75 | 0.65-0.89 | Y | 98.9 | 70.0-130 |
| PCB-23 | 0.99 | 0.88-1.20 | Y | 44.2 | 35.0-65.0 | PCB-76/66 | 0.75 | 0.65-0.89 | Y | 94.4 | 70.0-130 |
| PCB-29 | 1.00 | 0.88-1.20 | Y | 44.4 | 35.0-65.0 | PCB-80 | 0.74 | 0.65-0.89 | Y | 50.8 | 35.0-65.0 |
| PCB-26 | 1.01 | 0.88-1.20 | Y | 46.2 | 35.0-65.0 | PCB-55 | 0.75 | 0.65-0.89 | Y | 49.6 | 35.0-65.0 |
| PCB-25 | 1.00 | 0.88-1.20 | Y | 46.1 | 35.0-65.0 | PCB-56/60 | 0.74 | 0.65-0.89 | Y | 97.8 | 70.0-130 |
| PCB-31 | 1.01 | 0.88-1.20 | Y | 44.5 | 35.0-65.0 | PCB-79 | 0.76 | 0.65-0.89 | Y | 50.5 | 35.0-65.0 |
| PCB-28 | 1.01 | 0.88-1.20 | Y | 47.6 | 35.0-65.0 | PCB-78 | 0.74 | 0.65-0.89 | Y | 47.8 | 35.0-65.0 |
| PCB-20/21/33 | 1.00 | 0.88-1.20 | Y | 137.5 | 105-195 | PCB-81 | 0.76 | 0.65-0.89 | Y | 48.6 | 35.0-65.0 |
| PCB-22 | 1.01 | 0.88-1.20 | Y | 46.1 | 35.0-65.0 | PCB-77 | 0.78 | 0.65-0.89 | Y | 49.2 | 35.0-65.0 |
| PCB-36 | 0.99 | 0.88-1.20 | Y | 48.7 | 35.0-65.0 | PCB-104 | 1.57 | 1.32-1.78 | Y | 52.4 | 35.0-65.0 |
| PCB-39 | 0.99 | 0.88-1.20 | Y | 48.2 | 35.0-65.0 | PCB-96 | 1.57 | 1.32-1.78 | Y | 51.4 | 35.0-65.0 |
| PCB-38 | 0.99 | 0.88-1.20 | Y | 48.1 | 35.0-65.0 | PCB-103 | 1.58 | 1.32-1.78 | Y | 50.0 | 35.0-65.0 |
| PCB-35 | 0.99 | 0.88-1.20 | Y | 52.5 | 35.0-65.0 | PCB-100 | 1.57 | 1.32-1.78 | Y | 50.5 | 35.0-65.0 |
| PCB-37 | 1.01 | 0.88-1.20 | Y | 48.7 | 35.0-65.0 | PCB-94 | 1.57 | 1.32-1.78 | Y | 50.5 | 35.0-65.0 |
| PCB-54 | 0.74 | 0.65-0.89 | Y | 47.6 | 35.0-65.0 | PCB-95/98/102 | 1.56 | 1.32-1.78 | Y | 148.7 | 105-195 |
| PCB-50 | 0.74 | 0.65-0.89 | Y | 48.9 | 35.0-65.0 | PCB-93 | 1.64 | 1.32-1.78 | Y | 60.7 | 35.0-65.0 |
| PCB-53 | 0.76 | 0.65-0.89 | Y | 50.6 | 35.0-65.0 | PCB-88/91 | 1.56 | 1.32-1.78 | Y | 100.2 | 70.0-130 |
| PCB-51 | 0.75 | 0.65-0.89 | Y | 50.2 | 35.0-65.0 | PCB-121 | 1.60 | 1.32-1.78 | Y | 52.4 | 35.0-65.0 |
| PCB-45 | 0.74 | 0.65-0.89 | Y | 48.3 | 35.0-65.0 | | | | | | |
| PCB-46 | 0.74 | 0.65-0.89 | Y | 48.0 | 35.0-65.0 | | | | | | |

Analyst: DMS

Date: 9/24/14

NATIVE PCB CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140924E1-2 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140924E1 S#2 Analysis Date: 24-SEP-14 Time: 12:13:31

| 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 | 102.2 | 70.0-130 | PCB-140 | 1.27 | 1.05-1.43 | y | 52.3 | 35.0-65.0 |
| PCB-89 | 1.58 | 1.32-1.78 | y | 51.9 | 35.0-65.0 | PCB-134/143 | 1.20 | 1.05-1.43 | y | 98.5 | 70.0-130 |
| PCB-90/101 | 1.60 | 1.32-1.78 | y | 104.0 | 70.0-130 | PCB-133/142 | 1.21 | 1.05-1.43 | y | 98.0 | 70.0-130 |
| PCB-113 | 1.57 | 1.32-1.78 | y | 47.6 | 35.0-65.0 | PCB-131 | 1.22 | 1.05-1.43 | y | 47.1 | 35.0-65.0 |
| PCB-99 | 1.61 | 1.32-1.78 | y | 56.6 | 35.0-65.0 | PCB-146/165 | 1.22 | 1.05-1.43 | y | 92.1 | 70.0-130 |
| PCB-119 | 1.58 | 1.32-1.78 | y | 50.4 | 35.0-65.0 | PCB-132/161 | 1.23 | 1.05-1.43 | y | 91.9 | 70.0-130 |
| PCB-108/112 | 1.59 | 1.32-1.78 | y | 101.0 | 70.0-130 | PCB-153 | 1.22 | 1.05-1.43 | y | 46.0 | 35.0-65.0 |
| PCB-83 | 1.58 | 1.32-1.78 | y | 48.8 | 35.0-65.0 | PCB-168 | 1.23 | 1.05-1.43 | y | 47.8 | 35.0-65.0 |
| PCB-97 | 1.60 | 1.32-1.78 | y | 50.8 | 35.0-65.0 | PCB-141 | 1.24 | 1.05-1.43 | y | 47.1 | 35.0-65.0 |
| PCB-86 | 1.57 | 1.32-1.78 | y | 56.6 | 35.0-65.0 | PCB-137 | 1.19 | 1.05-1.43 | y | 46.8 | 35.0-65.0 |
| PCB-87/117/125 | 1.57 | 1.32-1.78 | y | 154.4 | 105-195 | PCB-130 | 1.21 | 1.05-1.43 | y | 43.5 | 35.0-65.0 |
| PCB-111/115 | 1.57 | 1.32-1.78 | y | 99.4 | 70.0-130 | PCB-138/163/164 | 1.21 | 1.05-1.43 | y | 140.2 | 105-195 |
| PCB-85/116 | 1.58 | 1.32-1.78 | y | 106.8 | 70.0-130 | PCB-158/160 | 1.19 | 1.05-1.43 | y | 92.3 | 70.0-130 |
| PCB-120 | 1.59 | 1.32-1.78 | y | 50.5 | 35.0-65.0 | PCB-129 | 1.21 | 1.05-1.43 | y | 49.2 | 35.0-65.0 |
| PCB-110 | 1.61 | 1.32-1.78 | y | 51.0 | 35.0-65.0 | PCB-166 | 1.20 | 1.05-1.43 | y | 47.0 | 35.0-65.0 |
| PCB-82 | 1.60 | 1.32-1.78 | y | 54.9 | 35.0-65.0 | PCB-159 | 1.25 | 1.05-1.43 | y | 48.6 | 35.0-65.0 |
| PCB-124 | 1.55 | 1.32-1.78 | y | 52.3 | 35.0-65.0 | PCB-128/162 | 1.21 | 1.05-1.43 | y | 96.7 | 70.0-130 |
| PCB-107/109 | 1.59 | 1.32-1.78 | y | 104.5 | 70.0-130 | PCB-167 | 1.20 | 1.05-1.43 | y | 47.6 | 35.0-65.0 |
| PCB-123 | 1.59 | 1.32-1.78 | y | 50.5 | 35.0-65.0 | PCB-156 | 1.19 | 1.05-1.43 | y | 48.2 | 35.0-65.0 |
| PCB-106/118 | 1.58 | 1.32-1.78 | y | 104.0 | 70.0-130 | PCB-157 | 1.22 | 1.05-1.43 | y | 45.3 | 35.0-65.0 |
| PCB-114 | 1.59 | 1.32-1.78 | y | 52.6 | 35.0-65.0 | PCB-169 | 1.22 | 1.05-1.43 | y | 45.1 | 35.0-65.0 |
| PCB-122 | 1.63 | 1.32-1.78 | y | 52.6 | 35.0-65.0 | PCB-188 | 1.04 | 0.89-1.21 | y | 48.7 | 35.0-65.0 |
| PCB-105 | 1.59 | 1.32-1.78 | y | 53.5 | 35.0-65.0 | PCB-184 | 1.04 | 0.89-1.21 | y | 47.7 | 35.0-65.0 |
| PCB-127 | 1.65 | 1.32-1.78 | y | 52.6 | 35.0-65.0 | PCB-179 | 1.04 | 0.89-1.21 | y | 46.6 | 35.0-65.0 |
| PCB-126 | 1.64 | 1.32-1.78 | y | 54.9 | 35.0-65.0 | PCB-176 | 1.06 | 0.89-1.21 | y | 44.7 | 35.0-65.0 |
| PCB-155 | 1.29 | 1.05-1.43 | y | 51.7 | 35.0-65.0 | PCB-186 | 1.04 | 0.89-1.21 | y | 47.5 | 35.0-65.0 |
| PCB-150 | 1.27 | 1.05-1.43 | y | 52.4 | 35.0-65.0 | PCB-178 | 1.04 | 0.89-1.21 | y | 46.1 | 35.0-65.0 |
| PCB-152 | 1.28 | 1.05-1.43 | y | 52.6 | 35.0-65.0 | PCB-175 | 1.04 | 0.89-1.21 | y | 45.0 | 35.0-65.0 |
| PCB-145 | 1.27 | 1.05-1.43 | y | 53.4 | 35.0-65.0 | PCB-182/187 | 1.06 | 0.89-1.21 | y | 91.2 | 70.0-130 |
| PCB-136 | 1.29 | 1.05-1.43 | y | 53.9 | 35.0-65.0 | PCB-183 | 1.06 | 0.89-1.21 | y | 48.7 | 35.0-65.0 |
| PCB-148 | 1.26 | 1.05-1.43 | y | 50.2 | 35.0-65.0 | PCB-185 | 1.07 | 0.89-1.21 | y | 51.2 | 35.0-65.0 |
| PCB-154 | 1.28 | 1.05-1.43 | y | 52.0 | 35.0-65.0 | PCB-174 | 1.18 | 0.89-1.21 | y | 52.5 | 35.0-65.0 |
| PCB-151 | 1.28 | 1.05-1.43 | y | 51.7 | 35.0-65.0 | PCB-181 | 0.93 | 0.89-1.21 | y | 50.4 | 35.0-65.0 |
| PCB-135 | 1.25 | 1.05-1.43 | y | 50.9 | 35.0-65.0 | PCB-177 | 1.04 | 0.89-1.21 | y | 50.6 | 35.0-65.0 |
| PCB-144 | 1.36 | 1.05-1.43 | y | 54.7 | 35.0-65.0 | PCB-171 | 1.04 | 0.89-1.21 | y | 51.3 | 35.0-65.0 |
| PCB-147 | 1.21 | 1.05-1.43 | y | 53.9 | 35.0-65.0 | PCB-173 | 1.05 | 0.89-1.21 | y | 50.2 | 35.0-65.0 |
| PCB-139/149 | 1.28 | 1.05-1.43 | y | 106.4 | 70.0-130 | PCB-172 | 1.04 | 0.89-1.21 | y | 49.0 | 35.0-65.0 |

Analyst: DMS

Date: 9/24/14

NATIVE PCB CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140924E1-2 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140924E1 S#2 Analysis Date: 24-SEP-14 Time: 12:13:31

| ANALYTES | ION ABUND. RATIO | QC LIMITS | PASS | CONC. FOUND | CONC. RANGE (ng/mL) |
|-------------|------------------------|--------------|------|----------------|---------------------------|
| PCB-192 | 1.02 | 0.89-1.21 | y | 48.8 | 35.0-65.0 |
| PCB-180 | 1.05 | 0.89-1.21 | y | 48.3 | 35.0-65.0 |
| PCB-193 | 1.04 | 0.89-1.21 | y | 48.3 | 35.0-65.0 |
| PCB-191 | 1.07 | 0.89-1.21 | y | 46.7 | 35.0-65.0 |
| PCB-170 | 1.04 | 0.89-1.21 | y | 48.6 | 35.0-65.0 |
| PCB-190 | 1.06 | 0.89-1.21 | y | 45.0 | 35.0-65.0 |
| PCB-189 | 1.03 | 0.89-1.21 | y | 48.5 | 35.0-65.0 |
| PCB-202 | 0.90 | 0.76-1.02 | y | 49.1 | 35.0-65.0 |
| PCB-201 | 0.89 | 0.76-1.02 | y | 47.4 | 35.0-65.0 |
| PCB-204 | 0.88 | 0.76-1.02 | y | 46.5 | 35.0-65.0 |
| PCB-197 | 0.88 | 0.76-1.02 | y | 46.7 | 35.0-65.0 |
| PCB-200 | 0.91 | 0.76-1.02 | y | 46.5 | 35.0-65.0 |
| PCB-198 | 0.90 | 0.76-1.02 | y | 43.3 | 35.0-65.0 |
| PCB-199 | 0.90 | 0.76-1.02 | y | 47.4 | 35.0-65.0 |
| PCB-196/203 | 0.90 | 0.76-1.02 | y | 92.1 | 70.0-130 |
| PCB-195 | 0.90 | 0.76-1.02 | y | 53.7 | 35.0-65.0 |
| PCB-194 | 0.91 | 0.76-1.02 | y | 48.8 | 35.0-65.0 |
| PCB-205 | 0.91 | 0.76-1.02 | y | 51.7 | 35.0-65.0 |
| PCB-208 | 1.31 | 1.14-1.54 | y | 48.7 | 35.0-65.0 |
| PCB-207 | 1.31 | 1.14-1.54 | y | 46.4 | 35.0-65.0 |
| PCB-206 | 1.29 | 1.14-1.54 | y | 47.7 | 35.0-65.0 |
| PCB-209 | 1.18 | 0.99-1.34 | y | 50.1 | 35.0-65.0 |

Analyst: DmsDate: 9/24/14

LABELED 1668A CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140924E1-2 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140924E1 S#2 Analysis Date: 24-SEP-14 Time: 12:13:31

| LABELED IS | ION | | | CONC. | | LABELED IS | ION | | | CONC. | |
|-------------|--------------|-----------|------|-------------|---------------|-------------|--------------|-----------|------|-------------|---------------|
| | ABUND. RATIO | QC LIMITS | PASS | CONC. FOUND | RANGE (ng/mL) | | ABUND. RATIO | QC LIMITS | PASS | CONC. FOUND | RANGE (ng/mL) |
| 13C-PCB-1 | 3.26 | 2.66-3.60 | y | 134.9 | 50.0-150 | 13C-PCB-169 | 1.27 | 1.05-1.43 | y | 84.4 | 50 - 150 |
| 13C-PCB-3 | 3.34 | 2.66-3.60 | y | 132.7 | 50.0-150 | 13C-PCB-188 | 0.47 | 0.38-0.52 | y | 108.1 | 50 - 150 |
| 13C-PCB-4 | 1.61 | 1.33-1.79 | y | 104.7 | 50.0-150 | 13C-PCB-180 | 0.46 | 0.38-0.52 | y | 97.2 | 50 - 150 |
| 13C-PCB-9 | 1.58 | 1.33-1.79 | y | 102.6 | 50.0-150 | 13C-PCB-170 | 0.46 | 0.38-0.52 | y | 98.9 | 50 - 150 |
| 13C-PCB-11 | 1.58 | 1.33-1.79 | y | 100.0 | 50.0-150 | 13C-PCB-189 | 0.47 | 0.38-0.52 | y | 90.0 | 50 - 150 |
| 13C-PCB-19 | 1.09 | 0.88-1.20 | y | 112.9 | 50.0-150 | 13C-PCB-202 | 0.92 | 0.76-1.02 | y | 100.7 | 50 - 150 |
| 13C-PCB-32 | 1.09 | 0.88-1.20 | y | 111.6 | 50.0-150 | 13C-PCB-194 | 0.91 | 0.76-1.02 | y | 97.0 | 50 - 150 |
| 13C-PCB-28 | 1.03 | 0.88-1.20 | y | 108.4 | 50.0-150 | 13C-PCB-208 | 0.76 | 0.65-0.89 | y | 116.9 | 50 - 150 |
| 13C-PCB-37 | 1.06 | 0.88-1.20 | y | 100.0 | 50.0-150 | 13C-PCB-206 | 0.78 | 0.65-0.89 | y | 114.6 | 50 - 150 |
| 13C-PCB-54 | 0.79 | 0.65-0.89 | y | 101.2 | 50.0-150 | 13C-PCB-209 | 1.21 | 0.99-1.33 | y | 121.2 | 50 - 150 |
| 13C-PCB-52 | 0.79 | 0.65-0.89 | y | 101.1 | 50.0-150 | | | | | | |
| 13C-PCB-47 | 0.78 | 0.65-0.89 | y | 102.1 | 50.0-150 | | | | | | |
| 13C-PCB-70 | 0.78 | 0.65-0.89 | y | 99.6 | 50.0-150 | | | | | | |
| 13C-PCB-80 | 0.79 | 0.65-0.89 | y | 98.7 | 50.0-150 | | | | | | |
| 13C-PCB-81 | 0.78 | 0.65-0.89 | y | 101.9 | 50.0-150 | | | | | | |
| 13C-PCB-77 | 0.78 | 0.65-0.89 | y | 98.1 | 50.0-150 | | | | | | |
| 13C-PCB-104 | 1.55 | 1.32-1.78 | y | 99.2 | 50.0-150 | | | | | | |
| 13C-PCB-95 | 1.59 | 1.32-1.78 | y | 98.7 | 50.0-150 | | | | | | |
| 13C-PCB-101 | 1.63 | 1.32-1.78 | y | 96.8 | 50.0-150 | | | | | | |
| 13C-PCB-97 | 1.59 | 1.32-1.78 | y | 100.6 | 50.0-150 | CRS vs. RS | | | | | |
| 13C-PCB-123 | 1.60 | 1.32-1.78 | y | 98.3 | 50.0-150 | 13C-PCB-79 | 0.79 | 0.65-0.89 | y | 99.5 | 60 - 130 |
| 13C-PCB-118 | 1.62 | 1.32-1.78 | y | 96.3 | 50.0-150 | 13C-PCB-178 | 0.47 | 0.38-0.52 | y | 102.6 | 60 - 130 |
| 13C-PCB-114 | 1.58 | 1.32-1.78 | y | 85.8 | 50.0-150 | | | | | | |
| 13C-PCB-105 | 1.52 | 1.32-1.78 | y | 79.5 | 50.0-150 | PS vs. IS | | | | | |
| 13C-PCB-127 | 1.57 | 1.32-1.78 | y | 81.0 | 50.0-150 | | | | | | |
| 13C-PCB-126 | 1.59 | 1.32-1.78 | y | 74.7 | 50.0-150 | 13C-PCB-79 | 0.79 | 0.65-0.89 | y | 97.6 | 60 - 130 |
| 13C-PCB-155 | 1.27 | 1.05-1.43 | y | 91.9 | 50.0-150 | 13C-PCB-178 | 0.47 | 0.38-0.52 | y | 105.5 | 60 - 130 |
| 13C-PCB-153 | 1.24 | 1.05-1.43 | y | 98.8 | 50.0-150 | | | | | | |
| 13C-PCB-141 | 1.24 | 1.05-1.43 | y | 95.1 | 50.0-150 | | | | | | |
| 13C-PCB-138 | 1.25 | 1.05-1.43 | y | 94.3 | 50.0-150 | | | | | | |
| 13C-PCB-159 | 1.25 | 1.05-1.43 | y | 93.4 | 50.0-150 | | | | | | |
| 13C-PCB-167 | 1.25 | 1.05-1.43 | y | 95.1 | 50.0-150 | | | | | | |
| 13C-PCB-156 | 1.27 | 1.05-1.43 | y | 90.6 | 50.0-150 | | | | | | |
| 13C-PCB-157 | 1.30 | 1.05-1.43 | y | 92.6 | 50.0-150 | | | | | | |

Analyst: DMS

Date: 9/24/14

Client ID: PCB CS3 14F1302
Lab ID: ST140924E1-2

Filename: 140924E1 S:2 Acq:24-SEP-14 12:13:31 ConCal: ST140924E1-2
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 | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc |
|--------------|----------|--------|------|-------|-------|-------------|---------|------|-----------------|----------|--------|------|-------|-------|-------------|---------|------|
| PCB-1 | 1.24e+08 | 2.97 y | 1.19 | 16:14 | 1.001 | 0.996-1.006 | 42.1606 | | PCB-52/69 | 1.43e+08 | 0.75 y | 1.28 | 31:38 | 1.001 | 0.996-1.006 | 99.1746 | |
| PCB-2 | 1.24e+08 | 2.98 y | 1.18 | 18:37 | 0.988 | 0.984-0.994 | 41.6252 | | PCB-73 | 7.30e+07 | 0.74 y | 1.35 | 31:45 | 1.005 | 1.000-1.010 | 47.8036 | |
| PCB-3 | 1.50e+08 | 2.94 y | 1.43 | 18:51 | 1.001 | 0.996-1.006 | 41.7083 | | PCB-43/49 | 1.08e+08 | 0.73 y | 0.99 | 31:55 | 1.010 | 1.005-1.015 | 96.3649 | |
| PCB-4/10 | 3.92e+08 | 1.61 y | 1.57 | 20:13 | 1.003 | 0.997-1.007 | 195.300 | | PCB-47 | 6.50e+07 | 0.74 y | 1.06 | 32:07 | 1.001 | 0.996-1.006 | 51.0878 | |
| PCB-7/9 | 4.53e+08 | 1.61 y | 1.21 | 21:59 | 0.868 | 0.866-0.874 | 194.903 | | PCB-48/75 | 1.40e+08 | 0.75 y | 1.23 | 32:14 | 1.004 | 0.999-1.009 | 94.9313 | |
| PCB-6 | 2.36e+08 | 1.61 y | 1.30 | 22:38 | 0.894 | 0.890-0.899 | 94.0821 | | PCB-65 | 7.13e+07 | 0.74 y | 1.22 | 32:30 | 1.012 | 1.008-1.018 | 48.4940 | |
| PCB-5/8 | 4.28e+08 | 1.61 y | 1.15 | 23:03 | 0.910 | 0.907-0.917 | 193.830 | | PCB-62 | 7.24e+07 | 0.75 y | 1.22 | 32:37 | 1.016 | 1.011-1.021 | 49.3617 | |
| PCB-14 | 2.20e+08 | 1.62 y | 1.11 | 24:09 | 0.954 | 0.949-0.959 | 101.288 | | PCB-44 | 5.04e+07 | 0.75 y | 0.86 | 32:55 | 1.025 | 1.021-1.031 | 48.7393 | |
| PCB-11 | 2.11e+08 | 1.62 y | 1.09 | 25:20 | 1.000 | 0.995-1.005 | 99.2970 | | PCB-42/59 | 1.33e+08 | 0.75 y | 1.14 | 33:09 | 1.032 | 1.028-1.038 | 97.4409 | |
| PCB-12/13 | 4.53e+08 | 1.62 y | 1.19 | 25:44 | 1.016 | 1.011-1.021 | 194.230 | | PCB-41/64/71/72 | 2.78e+08 | 0.74 y | 1.21 | 33:44 | 1.051 | 1.046-1.056 | 191.951 | |
| PCB-15 | 2.42e+08 | 1.63 y | 1.28 | 26:03 | 1.029 | 1.023-1.033 | 96.7477 | | PCB-68 | 7.77e+07 | 0.75 y | 1.35 | 33:59 | 1.059 | 1.054-1.064 | 48.0079 | |
| PCB-19 | 6.45e+07 | 1.06 y | 1.04 | 24:20 | 1.001 | 0.996-1.006 | 49.3984 | | PCB-40 | 4.27e+07 | 0.76 y | 0.70 | 34:12 | 1.065 | 1.061-1.071 | 50.6490 | |
| PCB-30 | 1.05e+08 | 1.05 y | 1.71 | 25:13 | 1.037 | 1.032-1.042 | 49.1649 | | PCB-57 | 7.02e+07 | 0.74 y | 0.98 | 34:34 | 0.970 | 0.965-0.975 | 49.8147 | |
| PCB-18 | 7.38e+07 | 1.05 y | 0.78 | 25:58 | 0.954 | 0.949-0.959 | 50.9414 | | PCB-67 | 7.30e+07 | 0.74 y | 1.11 | 34:52 | 0.979 | 0.974-0.984 | 45.8145 | |
| PCB-17 | 8.54e+07 | 1.05 y | 0.92 | 26:09 | 0.960 | 0.956-0.966 | 49.9925 | | PCB-58 | 6.69e+07 | 0.75 y | 0.93 | 34:59 | 0.982 | 0.977-0.987 | 50.1500 | |
| PCB-24/27 | 2.20e+08 | 1.05 y | 1.19 | 26:43 | 0.981 | 0.977-0.987 | 99.6977 | | PCB-63 | 6.52e+07 | 0.75 y | 0.95 | 35:08 | 0.986 | 0.982-0.992 | 47.5964 | |
| PCB-16/32 | 1.73e+08 | 1.05 y | 0.94 | 27:14 | 1.000 | 0.995-1.005 | 99.1490 | | PCB-74 | 8.47e+07 | 0.76 y | 1.24 | 35:25 | 0.995 | 0.990-1.000 | 47.2906 | |
| PCB-34 | 7.85e+07 | 1.01 y | 1.14 | 28:02 | 0.961 | 0.955-0.965 | 41.4903 | | PCB-61/70 | 1.36e+08 | 0.75 y | 0.95 | 35:36 | 1.000 | 0.995-1.005 | 98.9159 | |
| PCB-23 | 9.41e+07 | 0.99 y | 1.28 | 28:07 | 0.963 | 0.959-0.969 | 44.1561 | | PCB-76/66 | 1.42e+08 | 0.75 y | 1.04 | 35:49 | 1.006 | 1.001-1.011 | 94.3998 | |
| PCB-29 | 7.99e+07 | 1.00 y | 1.08 | 28:22 | 0.972 | 0.967-0.977 | 44.3991 | | PCB-80 | 8.92e+07 | 0.74 y | 1.19 | 36:02 | 1.000 | 0.996-1.006 | 50.7645 | |
| PCB-26 | 9.28e+07 | 1.01 y | 1.21 | 28:35 | 0.979 | 0.974-0.984 | 46.1622 | | PCB-55 | 7.62e+07 | 0.75 y | 1.04 | 36:22 | 1.010 | 1.005-1.015 | 49.6283 | |
| PCB-25 | 9.69e+07 | 1.00 y | 1.26 | 28:44 | 0.985 | 0.979-0.989 | 46.0855 | | PCB-56/60 | 1.46e+08 | 0.74 y | 1.01 | 36:52 | 1.023 | 1.019-1.029 | 97.7619 | |
| PCB-31 | 9.53e+07 | 1.01 y | 1.28 | 29:05 | 0.997 | 0.992-1.002 | 44.5393 | | PCB-79 | 8.04e+07 | 0.76 y | 1.08 | 37:56 | 1.053 | 1.048-1.058 | 50.5242 | |
| PCB-28 | 1.36e+08 | 1.01 y | 1.71 | 29:12 | 1.001 | 0.995-1.005 | 47.6113 | | PCB-78 | 8.25e+07 | 0.74 y | 1.27 | 38:38 | 0.987 | 0.982-0.992 | 47.7667 | |
| PCB-20/21/33 | 2.48e+08 | 1.00 y | 1.08 | 29:49 | 1.022 | 1.017-1.027 | 137.456 | | PCB-81 | 8.79e+07 | 0.76 y | 1.33 | 39:10 | 1.000 | 0.995-1.005 | 48.5916 | |
| PCB-22 | 9.29e+07 | 1.01 y | 1.21 | 30:16 | 1.037 | 1.032-1.042 | 46.1323 | | PCB-77 | 7.25e+07 | 0.78 y | 1.10 | 39:45 | 1.000 | 0.995-1.005 | 49.2003 | |
| PCB-36 | 7.71e+07 | 0.99 y | 1.14 | 30:52 | 0.934 | 0.928-0.938 | 48.7284 | | PCB-104 | 6.33e+07 | 1.57 y | 1.18 | 32:46 | 1.000 | 0.996-1.006 | 52.3953 | |
| PCB-39 | 7.46e+07 | 0.99 y | 1.12 | 31:21 | 0.948 | 0.943-0.953 | 48.2468 | | PCB-96 | 5.98e+07 | 1.57 y | 1.14 | 34:02 | 1.039 | 1.034-1.044 | 51.4402 | |
| PCB-38 | 7.99e+07 | 0.99 y | 1.20 | 32:07 | 0.971 | 0.966-0.976 | 48.0689 | | PCB-103 | 4.89e+07 | 1.58 y | 0.96 | 34:34 | 1.055 | 1.050-1.060 | 50.0184 | |
| PCB-35 | 8.96e+07 | 0.99 y | 1.23 | 32:38 | 0.987 | 0.982-0.992 | 52.4920 | | PCB-100 | 4.83e+07 | 1.57 y | 0.94 | 34:55 | 1.066 | 1.061-1.071 | 50.4753 | |
| PCB-37 | 8.30e+07 | 1.01 y | 1.23 | 33:04 | 1.000 | 0.995-1.005 | 48.7318 | | PCB-94 | 4.01e+07 | 1.57 y | 1.06 | 35:24 | 0.986 | 0.980-0.990 | 50.4630 | |
| PCB-54 | 7.46e+07 | 0.74 y | 1.10 | 28:05 | 1.001 | 0.996-1.006 | 47.5959 | | PCB-95/98/102 | 1.37e+08 | 1.56 y | 1.22 | 35:53 | 0.999 | 0.995-1.005 | 148.687 | |
| PCB-50 | 6.13e+07 | 0.74 y | 0.88 | 29:15 | 1.042 | 1.037-1.047 | 48.9121 | | PCB-93 | 3.85e+07 | 1.64 y | 0.84 | 36:01 | 1.003 | 0.997-1.007 | 60.7389 | |
| PCB-53 | 6.08e+07 | 0.76 y | 1.06 | 29:54 | 0.946 | 0.942-0.952 | 50.6207 | | PCB-88/91 | 8.41e+07 | 1.56 y | 1.12 | 36:18 | 1.011 | 1.005-1.015 | 100.241 | |
| PCB-51 | 5.62e+07 | 0.75 y | 0.99 | 30:14 | 0.957 | 0.952-0.962 | 50.2429 | | PCB-121 | 6.35e+07 | 1.60 y | 1.62 | 36:24 | 1.013 | 1.009-1.019 | 52.3757 | |
| PCB-45 | 4.71e+07 | 0.74 y | 0.86 | 30:40 | 0.971 | 0.966-0.976 | 48.3443 | | PCB-84/92 | 8.33e+07 | 1.58 y | 1.05 | 37:14 | 0.990 | 0.985-0.995 | 102.232 | |
| PCB-46 | 4.58e+07 | 0.74 y | 0.85 | 31:09 | 0.986 | 0.981-0.991 | 48.0155 | | PCB-89 | 4.57e+07 | 1.58 y | 1.13 | 37:25 | 0.995 | 0.991-1.001 | 51.9212 | |

RL: MONO, TRI - DECA: _____

RL: DI : _____

Integrations

by

Analyst: Dms

Date: 9/24/14

Reviewed

by

Analyst: JJ

Date: 9/25/14

Client ID: PCB CS3 14F1302
Lab ID: ST140924E1-2

Filename: 140924E1 S:2 Acq:24-SEP-14 12:13:31 ConCal: ST140924E1-2
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 | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc |
|---------------|----------|--------|------|-------|-------|-------------|---------|------|-----------------|----------|--------|------|-------|-------|-------------|---------|------|
| PCB-90/101 | 8.92e+07 | 1.60 y | 1.10 | 37:36 | 1.000 | 0.995-1.005 | 103.993 | | PCB-133/142 | 8.02e+07 | 1.21 y | 0.82 | 42:33 | 0.982 | 0.977-0.987 | 98.0435 | |
| PCB-113 | 5.23e+07 | 1.57 y | 1.41 | 37:50 | 1.006 | 1.002-1.012 | 47.5616 | | PCB-131 | 4.27e+07 | 1.22 y | 0.91 | 42:42 | 0.986 | 0.981-0.991 | 47.1345 | |
| PCB-99 | 5.89e+07 | 1.61 y | 1.34 | 37:56 | 1.009 | 1.004-1.014 | 56.6103 | | PCB-146/165 | 1.15e+08 | 1.22 y | 1.25 | 42:55 | 0.991 | 0.986-0.996 | 92.1448 | |
| PCB-119 | 5.62e+07 | 1.58 y | 1.53 | 38:24 | 0.987 | 0.982-0.992 | 50.3867 | | PCB-132/161 | 1.01e+08 | 1.23 y | 1.10 | 43:10 | 0.997 | 0.992-1.002 | 91.8828 | |
| PCB-108/112 | 9.41e+07 | 1.59 y | 1.28 | 38:33 | 0.991 | 0.986-0.996 | 100.986 | | PCB-153 | 5.74e+07 | 1.22 y | 1.25 | 43:20 | 1.000 | 0.995-1.005 | 46.0184 | |
| PCB-83 | 5.40e+07 | 1.58 y | 1.52 | 38:44 | 0.996 | 0.990-1.000 | 48.8367 | | PCB-168 | 6.92e+07 | 1.23 y | 1.45 | 43:33 | 1.005 | 1.001-1.011 | 47.8439 | |
| PCB-97 | 4.37e+07 | 1.60 y | 1.18 | 38:55 | 1.000 | 0.995-1.005 | 50.8336 | | PCB-141 | 4.60e+07 | 1.24 y | 1.09 | 44:04 | 1.000 | 0.995-1.005 | 47.0579 | |
| PCB-86 | 3.47e+07 | 1.57 y | 0.84 | 39:03 | 1.004 | 0.999-1.009 | 56.5749 | | PCB-137 | 4.47e+07 | 1.19 y | 1.06 | 44:27 | 1.009 | 1.004-1.014 | 46.7725 | |
| B-87/117/125 | 1.74e+08 | 1.57 y | 1.55 | 39:11 | 1.007 | 1.002-1.012 | 154.357 | | PCB-130 | 3.78e+07 | 1.21 y | 0.96 | 44:34 | 1.012 | 1.006-1.016 | 43.4965 | |
| PCB-111/115 | 1.18e+08 | 1.57 y | 1.63 | 39:20 | 1.011 | 1.006-1.016 | 99.4499 | | PCB-138/163/164 | 1.66e+08 | 1.21 y | 1.29 | 44:56 | 1.001 | 0.996-1.006 | 140.154 | |
| PCB-85/116 | 1.01e+08 | 1.58 y | 1.30 | 39:28 | 1.015 | 1.010-1.020 | 106.807 | | PCB-158/160 | 1.13e+08 | 1.19 y | 1.34 | 45:11 | 1.006 | 1.001-1.011 | 92.2698 | |
| PCB-120 | 6.16e+07 | 1.59 y | 1.68 | 39:43 | 1.021 | 1.016-1.026 | 50.5130 | | PCB-129 | 3.84e+07 | 1.21 y | 0.85 | 45:25 | 1.012 | 1.007-1.017 | 49.2323 | |
| PCB-110 | 5.78e+07 | 1.61 y | 1.56 | 39:51 | 1.024 | 1.020-1.030 | 51.0190 | | PCB-166 | 5.72e+07 | 1.20 y | 1.19 | 45:53 | 0.993 | 0.988-0.998 | 46.9604 | |
| PCB-82 | 3.76e+07 | 1.60 y | 0.76 | 40:29 | 0.977 | 0.971-0.981 | 54.9143 | | PCB-159 | 5.55e+07 | 1.25 y | 1.11 | 46:12 | 1.000 | 0.996-1.006 | 48.6342 | |
| PCB-124 | 6.94e+07 | 1.55 y | 1.47 | 41:09 | 0.993 | 0.988-0.998 | 52.2951 | | PCB-128/162 | 1.04e+08 | 1.21 y | 1.05 | 46:30 | 1.007 | 1.002-1.012 | 96.6833 | |
| PCB-107/109 | 1.25e+08 | 1.59 y | 1.32 | 41:18 | 0.996 | 0.991-1.001 | 104.487 | | PCB-167 | 6.47e+07 | 1.20 y | 1.20 | 46:53 | 1.000 | 0.995-1.005 | 47.6147 | |
| PCB-123 | 5.32e+07 | 1.59 y | 1.17 | 41:28 | 1.000 | 0.996-1.006 | 50.4902 | | PCB-156 | 5.67e+07 | 1.19 y | 1.14 | 48:10 | 1.000 | 0.996-1.006 | 48.2253 | |
| - PCB-106/118 | 1.16e+08 | 1.58 y | 1.17 | 41:41 | 1.001 | 0.996-1.006 | 104.038 | | PCB-157 | 5.84e+07 | 1.22 y | 1.16 | 48:26 | 1.000 | 0.995-1.005 | 45.2849 | |
| - PCB-114 | 7.02e+07 | 1.59 y | 1.30 | 42:19 | 1.000 | 0.995-1.005 | 52.5711 | | PCB-169 | 4.82e+07 | 1.22 y | 1.12 | 50:35 | 1.000 | 0.995-1.005 | 45.1462 | |
| PCB-122 | 6.08e+07 | 1.63 y | 1.12 | 42:27 | 1.003 | 0.999-1.009 | 52.6250 | | PCB-188 | 6.73e+07 | 1.04 y | 1.58 | 42:58 | 1.000 | 0.996-1.006 | 48.7404 | |
| PCB-105 | 6.64e+07 | 1.59 y | 1.30 | 43:11 | 1.001 | 0.995-1.005 | 53.4799 | | PCB-184 | 6.81e+07 | 1.04 y | 1.63 | 43:25 | 1.011 | 1.006-1.016 | 47.7496 | |
| PCB-127 | 7.37e+07 | 1.65 y | 1.33 | 43:30 | 1.000 | 0.996-1.006 | 52.6305 | | PCB-179 | 5.31e+07 | 1.04 y | 1.30 | 44:12 | 1.029 | 1.024-1.034 | 46.5872 | |
| PCB-126 | 5.58e+07 | 1.64 y | 1.18 | 45:25 | 1.000 | 0.995-1.005 | 54.8747 | | PCB-176 | 5.77e+07 | 1.06 y | 1.48 | 44:40 | 1.040 | 1.035-1.045 | 44.6974 | |
| PCB-155 | 4.56e+07 | 1.29 y | 1.11 | 37:09 | 1.001 | 0.966-1.006 | 51.6548 | | PCB-186 | 6.04e+07 | 1.04 y | 1.45 | 45:17 | 1.054 | 1.050-1.060 | 47.5147 | |
| PCB-150 | 4.15e+07 | 1.27 y | 1.00 | 38:26 | 1.035 | 1.030-1.040 | 52.3889 | | PCB-178 | 4.17e+07 | 1.04 y | 1.03 | 45:46 | 1.066 | 1.061-1.071 | 46.1062 | |
| PCB-152 | 4.66e+07 | 1.28 y | 1.12 | 38:54 | 1.047 | 1.043-1.053 | 52.6463 | | PCB-175 | 3.98e+07 | 1.04 y | 1.01 | 46:07 | 1.074 | 1.069-1.079 | 45.0198 | |
| PCB-145 | 5.09e+07 | 1.27 y | 1.20 | 39:21 | 1.060 | 1.055-1.065 | 53.4076 | | PCB-182/187 | 9.98e+07 | 1.06 y | 1.25 | 46:17 | 1.078 | 1.073-1.083 | 91.2208 | |
| PCB-136 | 5.04e+07 | 1.29 y | 1.18 | 39:40 | 1.068 | 1.064-1.074 | 53.9307 | | PCB-183 | 5.14e+07 | 1.06 y | 1.21 | 46:35 | 1.085 | 1.081-1.091 | 48.6518 | |
| PCB-148 | 2.96e+07 | 1.26 y | 0.74 | 39:46 | 1.071 | 1.066-1.076 | 50.2491 | | PCB-185 | 5.40e+07 | 1.07 y | 1.80 | 47:16 | 0.956 | 0.951-0.961 | 51.1567 | |
| PCB-154 | 3.54e+07 | 1.28 y | 0.86 | 40:16 | 1.084 | 1.080-1.090 | 52.0346 | | PCB-174 | 4.23e+07 | 1.18 y | 1.38 | 47:38 | 0.963 | 0.958-0.968 | 52.4538 | |
| PCB-151 | 3.06e+07 | 1.28 y | 0.75 | 40:54 | 1.101 | 1.097-1.107 | 51.7268 | | PCB-181 | 4.08e+07 | 0.93 y | 1.38 | 47:44 | 0.965 | 0.960-0.970 | 50.4345 | |
| PCB-135 | 3.20e+07 | 1.25 y | 0.79 | 41:07 | 1.107 | 1.103-1.113 | 50.9113 | | PCB-177 | 3.72e+07 | 1.04 y | 1.26 | 47:54 | 0.969 | 0.963-0.973 | 50.5756 | |
| PCB-144 | 3.30e+07 | 1.36 y | 0.76 | 41:14 | 1.110 | 1.105-1.117 | 54.6543 | | PCB-171 | 4.76e+07 | 1.04 y | 1.58 | 48:11 | 0.975 | 0.970-0.980 | 51.3309 | |
| PCB-147 | 3.50e+07 | 1.21 y | 0.82 | 41:22 | 1.114 | 1.109-1.121 | 53.9246 | | PCB-173 | 3.26e+07 | 1.05 y | 1.11 | 48:37 | 0.983 | 0.978-0.988 | 50.1598 | |
| PCB-139/149 | 6.42e+07 | 1.28 y | 0.76 | 41:38 | 1.121 | 1.116-1.128 | 106.363 | | PCB-172 | 4.69e+07 | 1.04 y | 1.63 | 49:03 | 0.992 | 0.987-0.997 | 49.0444 | |
| - PCB-140 | 3.00e+07 | 1.27 y | 0.72 | 41:49 | 1.126 | 1.121-1.133 | 52.3271 | | PCB-192 | 4.97e+07 | 1.02 y | 1.74 | 49:16 | 0.996 | 0.991-1.001 | 48.7836 | |
| - PCB-134/143 | 9.02e+07 | 1.20 y | 0.92 | 42:14 | 0.975 | 0.970-0.980 | 98.4785 | | PCB-180 | 3.80e+07 | 1.05 y | 1.34 | 49:28 | 1.000 | 0.995-1.005 | 48.2888 | |

Integrations

by

RL: MONO, TRI - DECA: _____

Analyst: *Dms*

Date: *9/24/14*

Client ID: PCB CS3 14F1302
Lab ID: ST140924E1-2

Filename: 140924E1 S:2 Acq:24-SEP-14 12:13:31
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

ConCal: ST140924E1-2

Page 9 of

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc |
|---------------|----------|--------|------|-------|-------|-------------|-----|---------|
| PCB-193 | 4.86e+07 | 1.04 y | 1.72 | 49:40 | 1.005 | 0.999-1.009 | | 48.3498 |
| PCB-191 | 4.63e+07 | 1.07 y | 1.69 | 49:55 | 1.010 | 1.004-1.014 | | 46.6762 |
| PCB-170 | 3.67e+07 | 1.04 y | 1.60 | 50:57 | 1.000 | 0.995-1.005 | | 48.6118 |
| PCB-190 | 4.70e+07 | 1.06 y | 2.21 | 51:07 | 1.004 | 0.998-1.008 | | 45.0312 |
| PCB-189 | 4.27e+07 | 1.03 y | 1.55 | 52:26 | 1.000 | 0.995-1.005 | | 48.5149 |
| PCB-202 | 3.95e+07 | 0.90 y | 1.08 | 48:24 | 1.000 | 0.995-1.005 | | 49.0799 |
| PCB-201 | 4.05e+07 | 0.89 y | 1.15 | 48:53 | 1.010 | 1.005-1.015 | | 47.3818 |
| PCB-204 | 3.94e+07 | 0.88 y | 1.14 | 49:02 | 1.014 | 1.008-1.018 | | 46.5154 |
| PCB-197 | 3.73e+07 | 0.88 y | 1.07 | 49:21 | 1.020 | 1.015-1.025 | | 46.7416 |
| PCB-200 | 3.68e+07 | 0.91 y | 1.06 | 50:13 | 1.038 | 1.032-1.044 | | 46.5444 |
| PCB-198 | 2.43e+07 | 0.90 y | 0.76 | 51:32 | 1.065 | 1.059-1.069 | | 43.2921 |
| PCB-199 | 2.81e+07 | 0.90 y | 0.80 | 51:38 | 1.067 | 1.061-1.071 | | 47.3962 |
| - PCB-196/203 | 5.49e+07 | 0.90 y | 0.80 | 51:55 | 1.073 | 1.066-1.076 | | 92.1273 |
| - PCB-195 | 3.65e+07 | 0.90 y | 1.23 | 53:04 | 0.984 | 0.979-0.989 | | 53.7422 |
| PCB-194 | 3.28e+07 | 0.91 y | 1.21 | 53:56 | 1.000 | 0.995-1.005 | | 48.8441 |
| PCB-205 | 4.42e+07 | 0.91 y | 1.54 | 54:13 | 1.005 | 1.001-1.011 | | 51.6929 |
| PCB-208 | 4.10e+07 | 1.31 y | 0.93 | 53:13 | 1.000 | 0.995-1.005 | | 48.7219 |
| PCB-207 | 4.55e+07 | 1.31 y | 1.08 | 53:31 | 1.006 | 1.001-1.011 | | 46.3615 |
| PCB-206 | 2.60e+07 | 1.29 y | 1.02 | 55:35 | 1.000 | 0.995-1.005 | | 47.6987 |
| PCB-209 | 3.11e+07 | 1.18 y | 1.17 | 56:55 | 1.000 | 0.995-1.005 | | 50.0964 |

| Name | Resp | RA | RT | RRF | Conc |
|-----------------|----------|--------|-------|------|---------|
| Total Mono-PCB | 3.98e+08 | 2.97 y | 16:14 | 1.27 | 125.494 |
| Total Di-PCB | 2.64e+09 | 1.61 y | 20:13 | 1.21 | 1173.01 |
| Total Tri-PCB | 7.21e+08 | 1.06 y | 24:20 | 1.10 | 398.344 |
| Total Tri-PCB | 1.44e+09 | 1.01 y | 28:02 | 1.21 | 758.361 |
| Total Tetra-PCB | 2.90e+09 | 0.74 y | 28:05 | 1.09 | 2069.33 |
| Total Penta-PCB | 2.11e+09 | 1.57 y | 32:46 | 1.18 | 2119.81 |
| Total Penta-PCB | 3.58e+08 | 1.59 y | 42:19 | 1.25 | 291.398 |
| Total Hexa-PCB | 5.25e+08 | 1.29 y | 37:09 | 0.90 | 736.219 |
| Total Hexa-PCB | 1.47e+09 | 1.20 y | 42:14 | 1.11 | 1342.05 |
| Total Hepta-PCB | 1.16e+09 | 1.04 y | 42:58 | 1.42 | 1168.62 |
| Total Octa-PCB | 3.01e+08 | 0.90 y | 48:24 | 0.96 | 419.079 |
| Total Octa-PCB | 1.17e+08 | 0.90 y | 53:04 | 1.33 | 158.405 |
| Total Nona-PCB | 1.15e+08 | 1.31 y | 53:13 | 1.01 | 145.783 |
| Total Deca-PCB | 3.11e+07 | 1.18 y | 56:55 | 1.17 | 50.0964 |

Total PCB Conc:10842.3309240

Integrations

by

RL: MONO, TRI - DECA: _____

Analyst: DMS

Date: 9/24/14

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec | CRS vs. RS | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec |
|-------------|----------|--------|------|-------|-------|-------------|-----|-------|-------|------------|-------------|----------|--------|------|-------|-------|-------------|------|------|-----|
| 13C-PCB-1 | 2.45e+08 | 3.26 y | 0.87 | 16:13 | 0.623 | 0.629-0.635 | ↕ | 135 | 135 | | | | | | | | | | | |
| 13C-PCB-3 | 2.52e+08 | 3.34 y | 0.91 | 18:50 | 0.723 | 0.725-0.733 | ↕ | 133 | 133 | | 13C-PCB-79 | 1.46e+08 | 0.79 y | 1.02 | 37:55 | 1.029 | 1.023-1.034 | 99.5 | 99.5 | |
| 13C-PCB-4 | 1.28e+08 | 1.61 y | 0.59 | 20:10 | 0.774 | 0.775-0.783 | ↕ | 105 | 105 | | 13C-PCB-178 | 5.55e+07 | 0.47 y | 0.61 | 45:45 | 0.985 | 0.979-0.990 | 103 | 103 | |
| 13C-PCB-9 | 1.92e+08 | 1.58 y | 0.90 | 21:57 | 0.843 | 0.842-0.850 | | 103 | 103 | | | | | | | | | | | |
| 13C-PCB-11 | 1.96e+08 | 1.58 y | 0.94 | 25:20 | 0.973 | 0.968-0.978 | | 100.0 | 100.0 | | | | | | | | | | | |
| 13C-PCB-19 | 1.25e+08 | 1.09 y | 0.53 | 24:19 | 0.934 | 0.930-0.940 | | 113 | 113 | | | | | | | | | | | |
| 13C-PCB-28 | 1.67e+08 | 1.03 y | 0.93 | 29:11 | 1.004 | 0.999-1.009 | | 108 | 108 | | 13C-PCB-79 | 1.46e+08 | 0.79 y | 1.10 | 37:55 | 0.969 | 0.964-0.974 | 97.6 | 97.6 | |
| 13C-PCB-32 | 1.85e+08 | 1.09 y | 0.80 | 27:14 | 1.046 | 1.040-1.050 | | 112 | 112 | | 13C-PCB-178 | 5.55e+07 | 0.47 y | 0.90 | 45:45 | 0.925 | 0.920-0.930 | 105 | 105 | |
| 13C-PCB-37 | 1.39e+08 | 1.06 y | 0.84 | 33:04 | 1.137 | 1.131-1.143 | | 100 | 100 | | | | | | | | | | | |
| 13C-PCB-47 | 1.20e+08 | 0.78 y | 0.81 | 32:06 | 0.871 | 0.866-0.874 | | 102 | 102 | | | | | | | | | | | |
| 13C-PCB-52 | 1.13e+08 | 0.79 y | 0.77 | 31:35 | 0.857 | 0.853-0.861 | | 101 | 101 | | | | | | | | | | | |
| 13C-PCB-54 | 1.42e+08 | 0.79 y | 0.97 | 28:04 | 0.762 | 0.758-0.766 | | 101 | 101 | | | | | | | | | | | |
| 13C-PCB-70 | 1.44e+08 | 0.78 y | 1.00 | 35:37 | 0.966 | 0.961-0.971 | | 99.6 | 99.6 | | | | | | | | | | | |
| 13C-PCB-77 | 1.34e+08 | 0.78 y | 0.94 | 39:44 | 1.078 | 1.073-1.083 | | 98.1 | 98.1 | | | | | | | | | | | |
| 13C-PCB-80 | 1.47e+08 | 0.79 y | 1.03 | 36:02 | 0.978 | 0.972-0.982 | | 98.7 | 98.7 | | | | | | | | | | | |
| 13C-PCB-81 | 1.36e+08 | 0.78 y | 0.92 | 39:08 | 1.062 | 1.057-1.067 | | 102 | 102 | | | | | | | | | | | |
| 13C-PCB-95 | 7.51e+07 | 1.59 y | 0.74 | 35:55 | 0.913 | 0.908-0.918 | | 98.7 | 98.7 | | | | | | | | | | | |
| 13C-PCB-97 | 7.28e+07 | 1.59 y | 0.70 | 38:54 | 0.989 | 0.984-0.994 | | 101 | 101 | | | | | | | | | | | |
| 13C-PCB-101 | 7.80e+07 | 1.63 y | 0.78 | 37:36 | 0.956 | 0.951-0.961 | | 96.8 | 96.8 | | | | | | | | | | | |
| 13C-PCB-104 | 1.02e+08 | 1.55 y | 1.00 | 32:45 | 0.833 | 0.828-0.836 | | 99.2 | 99.2 | | 13C-PCB-15 | 2.09e+08 | 1.56 y | 1.00 | 26:02 | | | 100 | | |
| 13C-PCB-105 | 9.56e+07 | 1.52 y | 1.37 | 43:10 | 0.929 | 0.924-0.934 | | 79.5 | 79.5 | | 13C-PCB-31 | 1.65e+08 | 1.04 y | 1.00 | 29:04 | | | 100 | | |
| 13C-PCB-114 | 1.03e+08 | 1.58 y | 1.36 | 42:18 | 0.911 | 0.905-0.915 | | 85.8 | 85.8 | | 13C-PCB-60 | 1.45e+08 | 0.78 y | 1.00 | 36:51 | | | 100 | | |
| 13C-PCB-118 | 9.49e+07 | 1.62 y | 0.96 | 41:39 | 1.059 | 1.054-1.064 | | 96.3 | 96.3 | | 13C-PCB-111 | 1.03e+08 | 1.61 y | 1.00 | 39:20 | | | 100 | | |
| 13C-PCB-123 | 9.03e+07 | 1.60 y | 0.89 | 41:27 | 1.054 | 1.050-1.060 | | 98.3 | 98.3 | | 13C-PCB-128 | 8.81e+07 | 1.25 y | 1.00 | 46:27 | | | 100 | | |
| 13C-PCB-126 | 8.60e+07 | 1.59 y | 1.31 | 45:24 | 0.977 | 0.972-0.982 | | 74.7 | 74.7 | | 13C-PCB-205 | 7.16e+07 | 0.90 y | 1.00 | 54:12 | | | 100 | | |
| 13C-PCB-127 | 1.05e+08 | 1.57 y | 1.47 | 43:30 | 0.936 | 0.931-0.941 | | 81.0 | 81.0 | | | | | | | | | | | |
| 13C-PCB-138 | 9.14e+07 | 1.25 y | 1.10 | 44:54 | 0.966 | 0.961-0.971 | | 94.3 | 94.3 | | | | | | | | | | | |
| 13C-PCB-141 | 9.00e+07 | 1.24 y | 1.07 | 44:04 | 0.948 | 0.943-0.953 | | 95.1 | 95.1 | | | | | | | | | | | |
| 13C-PCB-153 | 9.99e+07 | 1.24 y | 1.15 | 43:19 | 0.932 | 0.927-0.937 | | 98.8 | 98.8 | | | | | | | | | | | |
| 13C-PCB-155 | 7.93e+07 | 1.27 y | 0.84 | 37:08 | 0.944 | 0.939-0.949 | | 91.9 | 91.9 | | | | | | | | | | | |
| 13C-PCB-156 | 1.03e+08 | 1.27 y | 1.30 | 48:10 | 1.037 | 1.032-1.042 | | 90.6 | 90.6 | | | | | | | | | | | |
| 13C-PCB-157 | 1.11e+08 | 1.30 y | 1.36 | 48:26 | 1.043 | 1.038-1.048 | | 92.6 | 92.6 | | | | | | | | | | | |
| 13C-PCB-159 | 1.03e+08 | 1.25 y | 1.25 | 46:11 | 0.994 | 0.989-0.999 | | 93.4 | 93.4 | | | | | | | | | | | |
| 13C-PCB-167 | 1.13e+08 | 1.25 y | 1.35 | 46:52 | 1.009 | 1.004-1.014 | | 95.1 | 95.1 | | | | | | | | | | | |
| 13C-PCB-169 | 9.56e+07 | 1.27 y | 1.29 | 50:34 | 1.089 | 1.083-1.093 | | 84.4 | 84.4 | | | | | | | | | | | |
| 13C-PCB-170 | 4.73e+07 | 0.46 y | 0.54 | 50:56 | 1.096 | 1.089-1.101 | | 98.9 | 98.9 | | | | | | | | | | | |
| 13C-PCB-180 | 5.86e+07 | 0.46 y | 0.68 | 49:27 | 1.064 | 1.060-1.070 | | 97.2 | 97.2 | | | | | | | | | | | |
| 13C-PCB-188 | 8.73e+07 | 0.47 y | 0.92 | 42:57 | 0.924 | 0.919-0.929 | | 108 | 108 | | | | | | | | | | | |
| 13C-PCB-189 | 5.68e+07 | 0.47 y | 0.72 | 52:25 | 1.128 | 1.120-1.132 | | 90.0 | 90.0 | | | | | | | | | | | |
| 13C-PCB-194 | 5.54e+07 | 0.91 y | 0.80 | 53:55 | 0.995 | 0.990-1.000 | | 97.0 | 97.0 | | | | | | | | | | | |
| 13C-PCB-202 | 7.44e+07 | 0.92 y | 0.84 | 48:23 | 1.041 | 1.036-1.046 | | 101 | 101 | | | | | | | | | | | |
| 13C-PCB-206 | 5.33e+07 | 0.78 y | 0.65 | 55:34 | 1.025 | 1.021-1.031 | | 115 | 115 | | | | | | | | | | | |
| 13C-PCB-208 | 9.05e+07 | 0.76 y | 1.08 | 53:12 | 0.982 | 0.976-0.986 | | 117 | 117 | | | | | | | | | | | |
| 13C-PCB-209 | 5.30e+07 | 1.21 y | 0.61 | 56:54 | 1.050 | 1.045-1.055 | | 121 | 121 | | | | | | | | | | | |

* = RRT limits used for DATA processing only.
 RRT's within 1668A/C METHOD limits.
 Dms 9/24/14

Analyst: Dms

Date: 9/24/14

Vista Analytical Laboratory - Injection Log Run file: 140924E1 Instrument ID: VG-8 GC Column ID: ZB-1

| Data file | S# | Sample ID | Analyst | Acq date | Acq time | CCal | ECal |
|-----------|----|-----------------------|---------|-----------|----------|--------------|------|
| 140924E1 | 1 | ST140924E1-1 | DMS | 24-SEP-14 | 11:09:07 | ST140924E1-1 | NA |
| 140924E1 | 2 | ST140924E1-2 | DMS | 24-SEP-14 | 12:13:31 | ST140924E1-2 | NA |
| 140924E1 | 3 | SOLVENT BLANK | DMS | 24-SEP-14 | 13:17:56 | ST140924E1-2 | NA |
| 140924E1 | 4 | 1400665-04 | DMS | 24-SEP-14 | 14:22:21 | ST140924E1-1 | NA |
| 140924E1 | 5 | 1400667-01 | DMS | 24-SEP-14 | 15:26:46 | ST140924E1-2 | NA |
| 140924E1 | 6 | 1400668-03RE1 DL 1:20 | DMS | 24-SEP-14 | 16:31:09 | ST140924E1-2 | NA |
| 140924E1 | 7 | 1400659-03RE1 DL 1:20 | DMS | 24-SEP-14 | 17:35:34 | ST140924E1-2 | NA |
| 140924E1 | 8 | 1400665-01RE1 DL 1:20 | DMS | 24-SEP-14 | 18:39:58 | ST140924E1-2 | NA |
| 140924E1 | 9 | 1400665-02RE1 DL 1:20 | DMS | 24-SEP-14 | 19:44:22 | ST140924E1-2 | NA |
| 140924E1 | 10 | 1400665-03RE1 DL 1:20 | DMS | 24-SEP-14 | 20:48:44 | ST140924E1-2 | NA |
| 140924E1 | 11 | 1400665-02RE2 DL 1:10 | DMS | 24-SEP-14 | 21:53:12 | ST140924E1-2 | NA |
| 140924E1 | 12 | 1400665-03RE2 DL 1:10 | DMS | 24-SEP-14 | 22:57:34 | ST140924E1-2 | NA |
| 140924E1 | 13 | SOLVENT BLANK | DMS | 25-SEP-14 | 00:01:58 | ST140924E1-2 | NA |
| 140924E1 | 14 | SOLVENT BLANK | DMS | 25-SEP-14 | 01:06:21 | ST140924E1-2 | NA |

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST140924E1-2

End Calibration ID: NA

| | <u>Beg.</u> | <u>End</u> |
|---|---|-----------------------------|
| Ion abundance within QC limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> NA |
| Concentration within range? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| First and last eluters present? | <input type="checkbox"/> NA | <input type="checkbox"/> |
| Retention Times within criteria? | <input checked="" type="checkbox"/> Dms 9/24/14 | <input type="checkbox"/> |
| Verification Std. named correctly? (ST-Year-Month-Day-VG ID) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Forms signed and dated? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Correct ICAL referenced? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Run Log: | | |
| -Data file matches Conc Cal ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| -Correct instrument listed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> v |
| -Samples within 12-hour clock? | <input type="checkbox"/> (y) | <input type="checkbox"/> n |

| | <u>Beg.</u> | <u>End</u> |
|--|-------------------------------------|---------------------------------------|
| Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> * |
| TCDD/TCDF valleys < 25%? | <input type="checkbox"/> NA | <input type="checkbox"/> NA |
| Peaks integrated correctly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Manual integrations included? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8280 CS1 Ending Standard | | |
| -Ratios within limits | | <input type="checkbox"/> |
| -S/N > 2.5:1 | | <input type="checkbox"/> |
| -CS1 within 12-hour clock | | <input checked="" type="checkbox"/> |

Comments: * = Filament failed and lost SIDS connection. Replaced filament and printed END RES. Check from saved parameters. Dms 9/25/14

Reviewed by: cy 9/25/14
Initials & Date

* Ending standard criteria applicable to 8290 only.

INITIAL CALIBRATION

Initial Calibration RRF Summary (ICAL)

Vista Analytical Laboratory

Run: 140417d1

Analyte:

Cal: 1613VG7-4-17-14

Inst. ID. VG-7

Data filename: 140417D1

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 | 1.03 | 4.29 % | 1.00 | 1.02 | 1.05 | 0.97 | 1.07 | 1.08 |
| 1,2,3,7,8-PeCDD | 0.84 | 7.01 % | 0.86 | 0.77 | 0.79 | 0.82 | 0.91 | 0.90 |
| 1,2,3,4,7,8-HxCDD | 1.05 | 6.99 % | 1.06 | 0.98 | 1.03 | 0.97 | 1.14 | 1.12 |
| 1,2,3,6,7,8-HxCDD | 1.04 | 5.13 % | 1.04 | 0.99 | 1.00 | 1.01 | 1.12 | 1.08 |
| 1,2,3,7,8,9-HxCDD | 0.90 | 5.47 % | 0.91 | 0.85 | 0.88 | 0.84 | 0.96 | 0.93 |
| 1,2,3,4,6,7,8-HpCDD | 1.01 | 5.78 % | 0.99 | 0.97 | 1.01 | 0.93 | 1.09 | 1.06 |
| OCDD | 1.04 | 5.60 % | 1.05 | 0.98 | 1.01 | 0.99 | 1.12 | 1.10 |
| 2,3,7,8-TCDF | 0.91 | 4.29 % | 0.90 | 0.89 | 0.93 | 0.86 | 0.92 | 0.98 |
| 1,2,3,7,8-PeCDF | 0.97 | 4.36 % | 0.98 | 0.91 | 0.97 | 0.93 | 0.99 | 1.03 |
| 2,3,4,7,8-PeCDF | 0.94 | 5.82 % | 0.95 | 0.86 | 0.93 | 0.90 | 1.00 | 1.00 |
| 1,2,3,4,7,8-HxCDF | 1.32 | 6.10 % | 1.37 | 1.23 | 1.25 | 1.27 | 1.42 | 1.38 |
| 1,2,3,6,7,8-HxCDF | 1.18 | 5.66 % | 1.20 | 1.09 | 1.16 | 1.12 | 1.26 | 1.23 |
| 2,3,4,6,7,8-HxCDF | 1.23 | 6.12 % | 1.26 | 1.14 | 1.17 | 1.19 | 1.33 | 1.28 |
| 1,2,3,7,8,9-HxCDF | 1.13 | 5.49 % | 1.14 | 1.07 | 1.09 | 1.07 | 1.20 | 1.21 |
| 1,2,3,4,6,7,8-HpCDF | 1.57 | 4.62 % | 1.59 | 1.50 | 1.54 | 1.50 | 1.66 | 1.65 |
| 1,2,3,4,7,8,9-HpCDF | 1.50 | 4.20 % | 1.54 | 1.44 | 1.48 | 1.43 | 1.58 | 1.55 |
| OCDF | 1.05 | 6.08 % | 1.08 | 1.00 | 1.01 | 0.99 | 1.13 | 1.11 |
| 13C-2,3,7,8-TCDD | 1.06 | 2.41 % | 1.08 | 1.08 | 1.06 | 1.02 | 1.09 | 1.05 |
| 13C-1,2,3,7,8-PeCDD | 1.08 | 6.99 % | 0.99 | 1.00 | 1.07 | 1.13 | 1.19 | 1.12 |
| 13C-1,2,3,4,7,8-HxCDD | 0.74 | 4.12 % | 0.71 | 0.73 | 0.71 | 0.76 | 0.77 | 0.78 |
| 13C-1,2,3,6,7,8-HxCDD | 0.75 | 3.50 % | 0.73 | 0.74 | 0.74 | 0.75 | 0.74 | 0.80 |
| 13C-1,2,3,7,8,9-HxCDD | 0.89 | 4.91 % | 0.84 | 0.88 | 0.85 | 0.91 | 0.92 | 0.95 |
| 13C-1,2,3,4,6,7,8-HpCDD | 0.70 | 4.36 % | 0.67 | 0.68 | 0.68 | 0.72 | 0.73 | 0.74 |
| 13C-OCDD | 0.59 | 6.31 % | 0.54 | 0.56 | 0.57 | 0.61 | 0.61 | 0.64 |
| 13C-2,3,7,8-TCDF | 0.97 | 3.24 % | 1.01 | 0.93 | 0.95 | 0.95 | 0.96 | 1.00 |
| 13C-1,2,3,7,8-PeCDF | 0.99 | 3.99 % | 1.06 | 0.98 | 0.94 | 1.01 | 0.97 | 0.98 |
| 13C-2,3,4,7,8-PeCDF | 1.01 | 1.58 % | 1.02 | 1.01 | 1.00 | 1.00 | 0.98 | 1.03 |
| 13C-1,2,3,4,7,8-HxCDF | 0.94 | 2.65 % | 0.91 | 0.95 | 0.92 | 0.93 | 0.94 | 0.98 |
| 13C-1,2,3,6,7,8-HxCDF | 1.23 | 3.75 % | 1.23 | 1.25 | 1.24 | 1.30 | 1.16 | 1.19 |
| 13C-2,3,4,6,7,8-HxCDF | 1.03 | 3.01 % | 1.02 | 1.06 | 1.01 | 1.03 | 1.00 | 1.08 |
| 13C-1,2,3,7,8,9-HxCDF | 0.89 | 4.44 % | 0.83 | 0.87 | 0.86 | 0.92 | 0.91 | 0.93 |
| 13C-1,2,3,4,6,7,8-HpCDF | 0.71 | 5.05 % | 0.67 | 0.68 | 0.69 | 0.72 | 0.73 | 0.76 |
| 13C-1,2,3,4,7,8,9-HpCDF | 0.64 | 5.94 % | 0.59 | 0.61 | 0.65 | 0.65 | 0.66 | 0.69 |
| 13C-OCDF | 0.76 | 4.27 % | 0.75 | 0.72 | 0.74 | 0.77 | 0.76 | 0.81 |
| 37Cl-2,3,7,8-TCDD | 1.04 | 7.62 % | 1.00 | 1.00 | 0.95 | 1.03 | 1.14 | 1.14 |
| 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 4/18/14
MP 4/18/14

Filename: 140417D1 S: 1 Acquired: 17-APR-14 13:06:06
 Run: 140417d1 Analyte: Cal: 1613VG7-4-17-14 Results:
 Sample text: ST140417D1-1 1613 CS3 13L1811

| Name | Amount | Resp | RA | RT | RF | RRF |
|------------------------|--------|----------|--------|-------|----|------|
| 2,3,7,8-TCDD | 10.0 | 3.94e+06 | 0.75 y | 27:04 | - | 1.00 |
| 1,2,3,7,8-PeCDD | 50.0 | 1.55e+07 | 0.61 y | 31:38 | - | 0.86 |
| 1,2,3,4,7,8-HxCDD | 50.0 | 1.44e+07 | 1.31 y | 34:59 | - | 1.06 |
| 1,2,3,6,7,8-HxCDD | 50.0 | 1.46e+07 | 1.21 y | 35:05 | - | 1.04 |
| 1,2,3,7,8,9-HxCDD | 50.0 | 1.47e+07 | 1.26 y | 35:23 | - | 0.91 |
| 1,2,3,4,6,7,8-HpCDD | 50.0 | 1.28e+07 | 1.02 y | 38:51 | - | 0.99 |
| OCDD | 100 | 2.19e+07 | 0.88 y | 42:09 | - | 1.05 |
| 2,3,7,8-TCDF | 10.0 | 5.01e+06 | 0.80 y | 26:17 | - | 0.90 |
| 1,2,3,7,8-PeCDF | 50.0 | 2.86e+07 | 1.59 y | 30:27 | - | 0.98 |
| 2,3,4,7,8-PeCDF | 50.0 | 2.69e+07 | 1.57 y | 31:21 | - | 0.95 |
| 1,2,3,4,7,8-HxCDF | 50.0 | 2.40e+07 | 1.31 y | 34:04 | - | 1.37 |
| 1,2,3,6,7,8-HxCDF | 50.0 | 2.83e+07 | 1.30 y | 34:12 | - | 1.20 |
| 2,3,4,6,7,8-HxCDF | 50.0 | 2.47e+07 | 1.30 y | 34:48 | - | 1.26 |
| 1,2,3,7,8,9-HxCDF | 50.0 | 1.81e+07 | 1.33 y | 35:46 | - | 1.14 |
| 1,2,3,4,6,7,8-HpCDF | 50.0 | 2.03e+07 | 1.07 y | 37:36 | - | 1.59 |
| 1,2,3,4,7,8,9-HpCDF | 50.0 | 1.73e+07 | 1.11 y | 39:24 | - | 1.54 |
| OCDF | 100 | 3.12e+07 | 0.93 y | 42:23 | - | 1.08 |
| Total Tetra-Dioxins | 0.00 | - | - n | - | - | 1.00 |
| TCDD EMPC | 0.00 | - | - n | - | - | 1.00 |
| Total Penta-Dioxins | 0.00 | - | - n | - | - | 0.86 |
| PeCDD EMPC | 0.00 | - | - n | - | - | 0.86 |
| Total Hexa-Dioxins | 0.00 | - | - n | - | - | 1.00 |
| HxCDD EMPC | 0.00 | - | - n | - | - | 1.00 |
| Total Hepta-Dioxins | 0.00 | - | - n | - | - | 0.99 |
| HpCDD EMPC | 0.00 | - | - n | - | - | 0.99 |
| Total Tetra-Furans | 0.00 | - | - n | - | - | 0.90 |
| TCDF EMPC | 0.00 | - | - n | - | - | 0.90 |
| 1st Func. Penta-Furans | 0.00 | - | - n | - | - | 0.97 |
| 1st Func. PeCDF EMPC | 0.00 | - | - n | - | - | 0.97 |
| Total Penta-Furans | 0.00 | - | - n | - | - | 0.97 |
| PeCDF EMPC | 0.00 | - | - n | - | - | 0.97 |
| Total Hexa-Furans | 0.00 | - | - n | - | - | 1.24 |
| HxCDF EMPC | 0.00 | - | - n | - | - | 1.24 |
| Total Hepta-Furans | 0.00 | - | - n | - | - | 1.57 |
| HpCDF EMPC | 0.00 | - | - n | - | - | 1.57 |
| 13C-2,3,7,8-TCDD | 100 | 3.92e+07 | 0.79 y | 27:03 | - | 1.08 |
| 13C-1,2,3,7,8-PeCDD | 100 | 3.60e+07 | 0.62 y | 31:37 | - | 0.99 |
| 13C-1,2,3,4,7,8-HxCDD | 100 | 2.73e+07 | 1.24 y | 34:57 | - | 0.71 |

| | | | | | | |
|-------------------------|-----|----------|--------|-------|---|------|
| 13C-1,2,3,6,7,8-HxCDD | 100 | 2.80e+07 | 1.24 y | 35:04 | - | 0.73 |
| 13C-1,2,3,7,8,9-HxCDD | 100 | 3.22e+07 | 1.24 y | 35:22 | - | 0.84 |
| 13C-1,2,3,4,6,7,8-HpCDD | 100 | 2.58e+07 | 1.07 y | 38:50 | - | 0.67 |
| 13C-OCDD | 200 | 4.16e+07 | 0.89 y | 42:09 | - | 0.54 |
| 13C-2,3,7,8-TCDF | 100 | 5.56e+07 | 0.77 y | 26:16 | - | 1.01 |
| 13C-1,2,3,7,8-PeCDF | 100 | 5.82e+07 | 1.57 y | 30:26 | - | 1.06 |
| 13C-2,3,4,7,8-PeCDF | 100 | 5.64e+07 | 1.53 y | 31:20 | - | 1.02 |
| 13C-1,2,3,4,7,8-HxCDF | 100 | 3.51e+07 | 0.52 y | 34:04 | - | 0.91 |
| 13C-1,2,3,6,7,8-HxCDF | 100 | 4.72e+07 | 0.52 y | 34:11 | - | 1.23 |
| 13C-2,3,4,6,7,8-HxCDF | 100 | 3.93e+07 | 0.50 y | 34:47 | - | 1.02 |
| 13C-1,2,3,7,8,9-HxCDF | 100 | 3.18e+07 | 0.51 y | 35:45 | - | 0.83 |
| 13C-1,2,3,4,6,7,8-HpCDF | 100 | 2.56e+07 | 0.42 y | 37:35 | - | 0.67 |
| 13C-1,2,3,4,7,8,9-HpCDF | 100 | 2.25e+07 | 0.42 y | 39:23 | - | 0.59 |

| | | | | | | |
|-----------------------|------|----------|--------|-------|---|------|
| 13C-OCDF | 200 | 5.76e+07 | 0.89 y | 42:22 | - | 0.75 |
| 37Cl-2,3,7,8-TCDD | 10.0 | 3.62e+06 | | 27:04 | - | 1.00 |
| 13C-1,2,3,4-TCDD | 100 | 3.62e+07 | 0.81 y | 26:28 | - | 1.00 |
| 13C-1,2,3,4-TCDF | 100 | 5.51e+07 | 0.76 y | 25:00 | - | 1.00 |
| 13C-1,2,3,4,6,9-HxCDF | 100 | 3.84e+07 | 0.52 y | 34:29 | - | 1.00 |

Filename: 140417D1 S: 3 Acquired: 17-APR-14 14:43:22

Run: 140417d1

Analyte: Cal:

Results:

Sample text: ST140417D1-2 1613 CS0 13L1808

| Name | Amount | Resp | RA | RT | RF | RRF |
|------------------------|--------|----------|--------|-------|----|------|
| 2,3,7,8-TCDD | 0.250 | 9.23e+04 | 0.66 y | 27:07 | - | 1.02 |
| 1,2,3,7,8-PeCDD | 1.25 | 3.23e+05 | 0.60 y | 31:40 | - | 0.77 |
| 1,2,3,4,7,8-HxCDD | 1.25 | 2.98e+05 | 1.18 y | 34:60 | - | 0.98 |
| 1,2,3,6,7,8-HxCDD | 1.25 | 3.04e+05 | 1.33 y | 35:07 | - | 0.99 |
| 1,2,3,7,8,9-HxCDD | 1.25 | 3.11e+05 | 1.17 y | 35:24 | - | 0.85 |
| 1,2,3,4,6,7,8-HpCDD | 1.25 | 2.73e+05 | 1.05 y | 38:52 | - | 0.97 |
| OCDD | 2.50 | 4.56e+05 | 0.88 y | 42:10 | - | 0.98 |
| 2,3,7,8-TCDF | 0.250 | 1.06e+05 | 0.73 y | 26:20 | - | 0.89 |
| 1,2,3,7,8-PeCDF | 1.25 | 5.74e+05 | 1.49 y | 30:29 | - | 0.91 |
| 2,3,4,7,8-PeCDF | 1.25 | 5.54e+05 | 1.50 y | 31:23 | - | 0.86 |
| 1,2,3,4,7,8-HxCDF | 1.25 | 4.86e+05 | 1.20 y | 34:06 | - | 1.23 |
| 1,2,3,6,7,8-HxCDF | 1.25 | 5.66e+05 | 1.35 y | 34:14 | - | 1.09 |
| 2,3,4,6,7,8-HxCDF | 1.25 | 5.03e+05 | 1.29 y | 34:49 | - | 1.14 |
| 1,2,3,7,8,9-HxCDF | 1.25 | 3.86e+05 | 1.34 y | 35:47 | - | 1.07 |
| 1,2,3,4,6,7,8-HpCDF | 1.25 | 4.21e+05 | 1.06 y | 37:37 | - | 1.50 |
| 1,2,3,4,7,8,9-HpCDF | 1.25 | 3.66e+05 | 1.13 y | 39:25 | - | 1.44 |
| OCDF | 2.50 | 5.95e+05 | 0.94 y | 42:24 | - | 1.00 |
| Total Tetra-Dioxins | 0.00 | - | - n | - | - | 1.02 |
| TCDD EMPC | 0.00 | - | - n | - | - | 1.02 |
| Total Penta-Dioxins | 0.00 | - | - n | - | - | 0.77 |
| PeCDD EMPC | 0.00 | - | - n | - | - | 0.77 |
| Total Hexa-Dioxins | 0.00 | - | - n | - | - | 0.93 |
| HxCDD EMPC | 0.00 | - | - n | - | - | 0.93 |
| Total Hepta-Dioxins | 0.00 | - | - n | - | - | 0.97 |
| HpCDD EMPC | 0.00 | - | - n | - | - | 0.97 |
| Total Tetra-Furans | 0.00 | - | - n | - | - | 0.89 |
| TCDF EMPC | 0.00 | - | - n | - | - | 0.89 |
| 1st Func. Penta-Furans | 0.00 | - | - n | - | - | 0.89 |
| 1st Func. PeCDF EMPC | 0.00 | - | - n | - | - | 0.89 |
| Total Penta-Furans | 0.00 | - | - n | - | - | 0.89 |
| PeCDF EMPC | 0.00 | - | - n | - | - | 0.89 |
| Total Hexa-Furans | 0.00 | - | - n | - | - | 1.13 |
| HxCDF EMPC | 0.00 | - | - n | - | - | 1.13 |
| Total Hepta-Furans | 0.00 | - | - n | - | - | 1.47 |
| HpCDF EMPC | 0.00 | - | - n | - | - | 1.47 |
| 13C-2,3,7,8-TCDD | 100 | 3.62e+07 | 0.80 y | 27:06 | - | 1.08 |
| 13C-1,2,3,7,8-PeCDD | 100 | 3.37e+07 | 0.62 y | 31:39 | - | 1.00 |
| 13C-1,2,3,4,7,8-HxCDD | 100 | 2.44e+07 | 1.26 y | 34:59 | - | 0.73 |
| 13C-1,2,3,6,7,8-HxCDD | 100 | 2.47e+07 | 1.24 y | 35:06 | - | 0.74 |

| | | | | | | |
|-------------------------|-----|----------|--------|-------|---|------|
| 13C-1,2,3,7,8,9-HxCDD | 100 | 2.92e+07 | 1.26 y | 35:23 | - | 0.88 |
| 13C-1,2,3,4,6,7,8-HpCDD | 100 | 2.25e+07 | 1.07 y | 38:52 | - | 0.68 |
| 13C-OCDD | 200 | 3.73e+07 | 0.89 y | 42:09 | - | 0.56 |
| 13C-2,3,7,8-TCDF | 100 | 4.79e+07 | 0.79 y | 26:19 | - | 0.93 |
| 13C-1,2,3,7,8-PeCDF | 100 | 5.02e+07 | 1.58 y | 30:28 | - | 0.98 |
| 13C-2,3,4,7,8-PeCDF | 100 | 5.16e+07 | 1.56 y | 31:22 | - | 1.01 |
| 13C-1,2,3,4,7,8-HxCDF | 100 | 3.17e+07 | 0.52 y | 34:05 | - | 0.95 |
| 13C-1,2,3,6,7,8-HxCDF | 100 | 4.16e+07 | 0.52 y | 34:12 | - | 1.25 |
| 13C-2,3,4,6,7,8-HxCDF | 100 | 3.54e+07 | 0.52 y | 34:49 | - | 1.06 |
| 13C-1,2,3,7,8,9-HxCDF | 100 | 2.88e+07 | 0.52 y | 35:46 | - | 0.87 |
| 13C-1,2,3,4,6,7,8-HpCDF | 100 | 2.25e+07 | 0.42 y | 37:37 | - | 0.68 |
| 13C-1,2,3,4,7,8,9-HpCDF | 100 | 2.03e+07 | 0.43 y | 39:25 | - | 0.61 |
| 13C-OCDF | 200 | 4.78e+07 | 0.90 y | 42:23 | - | 0.72 |

| | | | | | | |
|-----------------------|-------|----------|--------|-------|---|------|
| 37Cl-2,3,7,8-TCDD | 0.250 | 8.41e+04 | | 27:07 | - | 1.00 |
| 13C-1,2,3,4-TCDD | 100 | 3.35e+07 | 0.82 y | 26:32 | - | 1.00 |
| 13C-1,2,3,4-TCDF | 100 | 5.13e+07 | 0.76 y | 25:04 | - | 1.00 |
| 13C-1,2,3,4,6,9-HxCDF | 100 | 3.33e+07 | 0.51 y | 34:30 | - | 1.00 |

Filename: 140417D1 S: 4 Acquired: 17-APR-14 15:31:59

Run: 140417d1 Analyte: Cal:

Results:

Sample text: ST140417D1-3 1613 CS1 13L1809

| Name | Amount | Resp | RA | RT | RF | RRF |
|------------------------|--------|----------|--------|-------|----|------|
| 2,3,7,8-TCDD | 0.500 | 1.95e+05 | 0.87 y | 27:07 | - | 1.05 |
| 1,2,3,7,8-PeCDD | 2.50 | 7.42e+05 | 0.61 y | 31:40 | - | 0.79 |
| 1,2,3,4,7,8-HxCDD | 2.50 | 6.51e+05 | 1.21 y | 34:59 | - | 1.03 |
| 1,2,3,6,7,8-HxCDD | 2.50 | 6.56e+05 | 1.39 y | 35:06 | - | 1.00 |
| 1,2,3,7,8,9-HxCDD | 2.50 | 6.65e+05 | 1.27 y | 35:24 | - | 0.88 |
| 1,2,3,4,6,7,8-HpCDD | 2.50 | 6.09e+05 | 1.04 y | 38:52 | - | 1.01 |
| OCDD | 5.00 | 1.04e+06 | 0.85 y | 42:10 | - | 1.01 |
| 2,3,7,8-TCDF | 0.500 | 2.39e+05 | 0.77 y | 26:20 | - | 0.93 |
| 1,2,3,7,8-PeCDF | 2.50 | 1.24e+06 | 1.65 y | 30:28 | - | 0.97 |
| 2,3,4,7,8-PeCDF | 2.50 | 1.26e+06 | 1.62 y | 31:23 | - | 0.93 |
| 1,2,3,4,7,8-HxCDF | 2.50 | 1.03e+06 | 1.25 y | 34:05 | - | 1.25 |
| 1,2,3,6,7,8-HxCDF | 2.50 | 1.27e+06 | 1.34 y | 34:13 | - | 1.16 |
| 2,3,4,6,7,8-HxCDF | 2.50 | 1.06e+06 | 1.36 y | 34:49 | - | 1.17 |
| 1,2,3,7,8,9-HxCDF | 2.50 | 8.40e+05 | 1.34 y | 35:47 | - | 1.09 |
| 1,2,3,4,6,7,8-HpCDF | 2.50 | 9.47e+05 | 1.05 y | 37:37 | - | 1.54 |
| 1,2,3,4,7,8,9-HpCDF | 2.50 | 8.59e+05 | 1.07 y | 39:25 | - | 1.48 |
| OCDF | 5.00 | 1.32e+06 | 0.92 y | 42:23 | - | 1.01 |
| Total Tetra-Dioxins | 0.00 | - | - n | - | - | 1.05 |
| TCDD EMPC | 0.00 | - | - n | - | - | 1.05 |
| Total Penta-Dioxins | 0.00 | - | - n | - | - | 0.79 |
| PeCDD EMPC | 0.00 | - | - n | - | - | 0.79 |
| Total Hexa-Dioxins | 0.00 | - | - n | - | - | 0.96 |
| HxCDD EMPC | 0.00 | - | - n | - | - | 0.96 |
| Total Hepta-Dioxins | 0.00 | - | - n | - | - | 1.01 |
| HpCDD EMPC | 0.00 | - | - n | - | - | 1.01 |
| Total Tetra-Furans | 0.00 | - | - n | - | - | 0.93 |
| TCDF EMPC | 0.00 | - | - n | - | - | 0.93 |
| 1st Func. Penta-Furans | 0.00 | - | - n | - | - | 0.95 |
| 1st Func. PeCDF EMPC | 0.00 | - | - n | - | - | 0.95 |
| Total Penta-Furans | 0.00 | - | - n | - | - | 0.95 |
| PeCDF EMPC | 0.00 | - | - n | - | - | 0.95 |
| Total Hexa-Furans | 0.00 | - | - n | - | - | 1.17 |
| HxCDF EMPC | 0.00 | - | - n | - | - | 1.17 |
| Total Hepta-Furans | 0.00 | - | - n | - | - | 1.51 |
| HpCDF EMPC | 0.00 | - | - n | - | - | 1.51 |
| 13C-2,3,7,8-TCDD | 100 | 3.72e+07 | 0.80 y | 27:06 | - | 1.06 |
| 13C-1,2,3,7,8-PeCDD | 100 | 3.77e+07 | 0.62 y | 31:38 | - | 1.07 |
| 13C-1,2,3,4,7,8-HxCDD | 100 | 2.52e+07 | 1.26 y | 34:58 | - | 0.71 |
| 13C-1,2,3,6,7,8-HxCDD | 100 | 2.64e+07 | 1.23 y | 35:05 | - | 0.74 |

| | | | | | | |
|-------------------------|-----|----------|--------|-------|---|------|
| 13C-1,2,3,7,8,9-HxCDD | 100 | 3.03e+07 | 1.24 y | 35:23 | - | 0.85 |
| 13C-1,2,3,4,6,7,8-HpCDD | 100 | 2.42e+07 | 1.05 y | 38:51 | - | 0.68 |
| 13C-OCDD | 200 | 4.09e+07 | 0.89 y | 42:09 | - | 0.57 |
| 13C-2,3,7,8-TCDF | 100 | 5.16e+07 | 0.76 y | 26:19 | - | 0.95 |
| 13C-1,2,3,7,8-PeCDF | 100 | 5.10e+07 | 1.57 y | 30:27 | - | 0.94 |
| 13C-2,3,4,7,8-PeCDF | 100 | 5.42e+07 | 1.58 y | 31:22 | - | 1.00 |
| 13C-1,2,3,4,7,8-HxCDF | 100 | 3.28e+07 | 0.51 y | 34:04 | - | 0.92 |
| 13C-1,2,3,6,7,8-HxCDF | 100 | 4.41e+07 | 0.51 y | 34:12 | - | 1.24 |
| 13C-2,3,4,6,7,8-HxCDF | 100 | 3.60e+07 | 0.51 y | 34:48 | - | 1.01 |
| 13C-1,2,3,7,8,9-HxCDF | 100 | 3.07e+07 | 0.52 y | 35:46 | - | 0.86 |
| 13C-1,2,3,4,6,7,8-HpCDF | 100 | 2.46e+07 | 0.42 y | 37:36 | - | 0.69 |
| 13C-1,2,3,4,7,8,9-HpCDF | 100 | 2.33e+07 | 0.44 y | 39:24 | - | 0.65 |
| 13C-OCDF | 200 | 5.26e+07 | 0.89 y | 42:23 | - | 0.74 |

| | | | | | | |
|-----------------------|-------|----------|--------|-------|---|------|
| 37Cl-2,3,7,8-TCDD | 0.500 | 1.66e+05 | | 27:07 | - | 0.95 |
| 13C-1,2,3,4-TCDD | 100 | 3.51e+07 | 0.80 y | 26:31 | - | 1.00 |
| 13C-1,2,3,4-TCDF | 100 | 5.41e+07 | 0.77 y | 25:04 | - | 1.00 |
| 13C-1,2,3,4,6,9-HxCDF | 100 | 3.56e+07 | 0.52 y | 34:29 | - | 1.00 |

Filename: 140417D1 S: 5 Acquired: 17-APR-14 16:20:38

Run: 140417d1

Analyte:

Cal:

Results:

Sample text: ST140417D1-4 1613 CS2 14B1101

| Name | Amount | Resp | RA | RT | RF | RRF |
|------------------------|--------|----------|--------|-------|----|------|
| 2,3,7,8-TCDD | 2.00 | 7.67e+05 | 0.77 y | 27:07 | - | 0.97 |
| 1,2,3,7,8-PeCDD | 10.0 | 3.58e+06 | 0.63 y | 31:39 | - | 0.82 |
| 1,2,3,4,7,8-HxCDD | 10.0 | 2.87e+06 | 1.25 y | 34:59 | - | 0.97 |
| 1,2,3,6,7,8-HxCDD | 10.0 | 2.97e+06 | 1.27 y | 35:06 | - | 1.01 |
| 1,2,3,7,8,9-HxCDD | 10.0 | 3.01e+06 | 1.27 y | 35:24 | - | 0.84 |
| 1,2,3,4,6,7,8-HpCDD | 10.0 | 2.66e+06 | 1.02 y | 38:52 | - | 0.93 |
| OCDD | 20.0 | 4.75e+06 | 0.90 y | 42:10 | - | 0.99 |
| 2,3,7,8-TCDF | 2.00 | 9.19e+05 | 0.79 y | 26:20 | - | 0.86 |
| 1,2,3,7,8-PeCDF | 10.0 | 5.34e+06 | 1.62 y | 30:28 | - | 0.93 |
| 2,3,4,7,8-PeCDF | 10.0 | 5.08e+06 | 1.55 y | 31:23 | - | 0.90 |
| 1,2,3,4,7,8-HxCDF | 10.0 | 4.67e+06 | 1.30 y | 34:05 | - | 1.27 |
| 1,2,3,6,7,8-HxCDF | 10.0 | 5.72e+06 | 1.30 y | 34:13 | - | 1.12 |
| 2,3,4,6,7,8-HxCDF | 10.0 | 4.85e+06 | 1.31 y | 34:49 | - | 1.19 |
| 1,2,3,7,8,9-HxCDF | 10.0 | 3.86e+06 | 1.34 y | 35:47 | - | 1.07 |
| 1,2,3,4,6,7,8-HpCDF | 10.0 | 4.23e+06 | 1.08 y | 37:37 | - | 1.50 |
| 1,2,3,4,7,8,9-HpCDF | 10.0 | 3.67e+06 | 1.10 y | 39:25 | - | 1.43 |
| OCDF | 20.0 | 6.03e+06 | 0.92 y | 42:23 | - | 0.99 |
| Total Tetra-Dioxins | 0.00 | - | - n | - | - | 0.97 |
| TCDD EMPC | 0.00 | - | - n | - | - | 0.97 |
| Total Penta-Dioxins | 0.00 | - | - n | - | - | 0.82 |
| PeCDD EMPC | 0.00 | - | - n | - | - | 0.82 |
| Total Hexa-Dioxins | 0.00 | - | - n | - | - | 0.93 |
| HxCDD EMPC | 0.00 | - | - n | - | - | 0.93 |
| Total Hepta-Dioxins | 0.00 | - | - n | - | - | 0.93 |
| HpCDD EMPC | 0.00 | - | - n | - | - | 0.93 |
| Total Tetra-Furans | 0.00 | - | - n | - | - | 0.86 |
| TCDF EMPC | 0.00 | - | - n | - | - | 0.86 |
| 1st Func. Penta-Furans | 0.00 | - | - n | - | - | 0.92 |
| 1st Func. PeCDF EMPC | 0.00 | - | - n | - | - | 0.92 |
| Total Penta-Furans | 0.00 | - | - n | - | - | 0.92 |
| PeCDF EMPC | 0.00 | - | - n | - | - | 0.92 |
| Total Hexa-Furans | 0.00 | - | - n | - | - | 1.16 |
| HxCDF EMPC | 0.00 | - | - n | - | - | 1.16 |
| Total Hepta-Furans | 0.00 | - | - n | - | - | 1.47 |
| HpCDF EMPC | 0.00 | - | - n | - | - | 1.47 |
| 13C-2,3,7,8-TCDD | 100 | 3.97e+07 | 0.80 y | 27:06 | - | 1.02 |
| 13C-1,2,3,7,8-PeCDD | 100 | 4.38e+07 | 0.63 y | 31:38 | - | 1.13 |
| 13C-1,2,3,4,7,8-HxCDD | 100 | 2.98e+07 | 1.25 y | 34:58 | - | 0.76 |
| 13C-1,2,3,6,7,8-HxCDD | 100 | 2.95e+07 | 1.24 y | 35:05 | - | 0.75 |

| | | | | | | |
|-------------------------|-----|----------|--------|-------|---|------|
| 13C-1,2,3,7,8,9-HxCDD | 100 | 3.61e+07 | 1.25 y | 35:22 | - | 0.91 |
| 13C-1,2,3,4,6,7,8-HpCDD | 100 | 2.85e+07 | 1.08 y | 38:51 | - | 0.72 |
| 13C-OCDD | 200 | 4.80e+07 | 0.89 y | 42:09 | - | 0.61 |
| 13C-2,3,7,8-TCDF | 100 | 5.34e+07 | 0.75 y | 26:19 | - | 0.95 |
| 13C-1,2,3,7,8-PeCDF | 100 | 5.72e+07 | 1.57 y | 30:27 | - | 1.01 |
| 13C-2,3,4,7,8-PeCDF | 100 | 5.65e+07 | 1.58 y | 31:22 | - | 1.00 |
| 13C-1,2,3,4,7,8-HxCDF | 100 | 3.68e+07 | 0.51 y | 34:04 | - | 0.93 |
| 13C-1,2,3,6,7,8-HxCDF | 100 | 5.12e+07 | 0.52 y | 34:12 | - | 1.30 |
| 13C-2,3,4,6,7,8-HxCDF | 100 | 4.08e+07 | 0.51 y | 34:48 | - | 1.03 |
| 13C-1,2,3,7,8,9-HxCDF | 100 | 3.61e+07 | 0.51 y | 35:45 | - | 0.92 |
| 13C-1,2,3,4,6,7,8-HpCDF | 100 | 2.82e+07 | 0.43 y | 37:36 | - | 0.72 |
| 13C-1,2,3,4,7,8,9-HpCDF | 100 | 2.57e+07 | 0.43 y | 39:24 | - | 0.65 |
| 13C-OCDF | 200 | 6.09e+07 | 0.88 y | 42:23 | - | 0.77 |

| | | | | | | |
|-----------------------|------|----------|--------|-------|---|------|
| 37C1-2,3,7,8-TCDD | 2.00 | 8.03e+05 | | 27:07 | - | 1.03 |
| 13C-1,2,3,4-TCDD | 100 | 3.88e+07 | 0.80 y | 26:32 | - | 1.00 |
| 13C-1,2,3,4-TCDF | 100 | 5.65e+07 | 0.75 y | 25:05 | - | 1.00 |
| 13C-1,2,3,4,6,9-HxCDF | 100 | 3.94e+07 | 0.51 y | 34:29 | - | 1.00 |

Filename: 140417D1 S: 6 Acquired: 17-APR-14 17:09:17

Run: 140417d1

Analyte:

Cal:

Results:

Sample text: ST140417D1-5 1613 CS4 13L1812

| Name | Amount | Resp | RA | RT | RF | RRF |
|------------------------|--------|----------|--------|-------|----|------|
| 2,3,7,8-TCDD | 40.0 | 1.68e+07 | 0.76 y | 27:07 | - | 1.07 |
| 1,2,3,7,8-PeCDD | 200 | 7.77e+07 | 0.62 y | 31:39 | - | 0.91 |
| 1,2,3,4,7,8-HxCDD | 200 | 6.76e+07 | 1.24 y | 34:59 | - | 1.14 |
| 1,2,3,6,7,8-HxCDD | 200 | 6.41e+07 | 1.26 y | 35:06 | - | 1.12 |
| 1,2,3,7,8,9-HxCDD | 200 | 6.81e+07 | 1.25 y | 35:23 | - | 0.96 |
| 1,2,3,4,6,7,8-HpCDD | 200 | 6.15e+07 | 1.02 y | 38:51 | - | 1.09 |
| OCDD | 400 | 1.05e+08 | 0.88 y | 42:09 | - | 1.12 |
| 2,3,7,8-TCDF | 40.0 | 1.96e+07 | 0.78 y | 26:20 | - | 0.92 |
| 1,2,3,7,8-PeCDF | 200 | 1.07e+08 | 1.58 y | 30:28 | - | 0.99 |
| 2,3,4,7,8-PeCDF | 200 | 1.09e+08 | 1.58 y | 31:22 | - | 1.00 |
| 1,2,3,4,7,8-HxCDF | 200 | 1.03e+08 | 1.30 y | 34:05 | - | 1.42 |
| 1,2,3,6,7,8-HxCDF | 200 | 1.13e+08 | 1.30 y | 34:13 | - | 1.26 |
| 2,3,4,6,7,8-HxCDF | 200 | 1.02e+08 | 1.30 y | 34:49 | - | 1.33 |
| 1,2,3,7,8,9-HxCDF | 200 | 8.45e+07 | 1.29 y | 35:46 | - | 1.20 |
| 1,2,3,4,6,7,8-HpCDF | 200 | 9.37e+07 | 1.07 y | 37:36 | - | 1.66 |
| 1,2,3,4,7,8,9-HpCDF | 200 | 8.09e+07 | 1.08 y | 39:24 | - | 1.58 |
| OCDF | 400 | 1.33e+08 | 0.94 y | 42:23 | - | 1.13 |
| Total Tetra-Dioxins | 0.00 | - | - n | - | - | 1.07 |
| TCDD EMPC | 0.00 | - | - n | - | - | 1.07 |
| Total Penta-Dioxins | 0.00 | - | - n | - | - | 0.91 |
| PeCDD EMPC | 0.00 | - | - n | - | - | 0.91 |
| Total Hexa-Dioxins | 0.00 | - | - n | - | - | 1.07 |
| HxCDD EMPC | 0.00 | - | - n | - | - | 1.07 |
| Total Hepta-Dioxins | 0.00 | - | - n | - | - | 1.09 |
| HpCDD EMPC | 0.00 | - | - n | - | - | 1.09 |
| Total Tetra-Furans | 0.00 | - | - n | - | - | 0.92 |
| TCDF EMPC | 0.00 | - | - n | - | - | 0.92 |
| 1st Func. Penta-Furans | 0.00 | - | - n | - | - | 0.99 |
| 1st Func. PeCDF EMPC | 0.00 | - | - n | - | - | 0.99 |
| Total Penta-Furans | 0.00 | - | - n | - | - | 0.99 |
| PeCDF EMPC | 0.00 | - | - n | - | - | 0.99 |
| Total Hexa-Furans | 0.00 | - | - n | - | - | 1.30 |
| HxCDF EMPC | 0.00 | - | - n | - | - | 1.30 |
| Total Hepta-Furans | 0.00 | - | - n | - | - | 1.62 |
| HpCDF EMPC | 0.00 | - | - n | - | - | 1.62 |
| 13C-2,3,7,8-TCDD | 100 | 3.93e+07 | 0.81 y | 27:06 | - | 1.09 |
| 13C-1,2,3,7,8-PeCDD | 100 | 4.28e+07 | 0.63 y | 31:38 | - | 1.19 |
| 13C-1,2,3,4,7,8-HxCDD | 100 | 2.96e+07 | 1.30 y | 34:58 | - | 0.77 |
| 13C-1,2,3,6,7,8-HxCDD | 100 | 2.86e+07 | 1.17 y | 35:05 | - | 0.74 |

| | | | | | | |
|-------------------------|-----|----------|--------|-------|---|------|
| 13C-1,2,3,7,8,9-HxCDD | 100 | 3.54e+07 | 1.24 y | 35:22 | - | 0.92 |
| 13C-1,2,3,4,6,7,8-HpCDD | 100 | 2.81e+07 | 1.06 y | 38:50 | - | 0.73 |
| 13C-OCDD | 200 | 4.69e+07 | 0.87 y | 42:09 | - | 0.61 |
| 13C-2,3,7,8-TCDF | 100 | 5.33e+07 | 0.75 y | 26:19 | - | 0.96 |
| 13C-1,2,3,7,8-PeCDF | 100 | 5.39e+07 | 1.58 y | 30:27 | - | 0.97 |
| 13C-2,3,4,7,8-PeCDF | 100 | 5.48e+07 | 1.55 y | 31:21 | - | 0.98 |
| 13C-1,2,3,4,7,8-HxCDF | 100 | 3.63e+07 | 0.51 y | 34:04 | - | 0.94 |
| 13C-1,2,3,6,7,8-HxCDF | 100 | 4.49e+07 | 0.51 y | 34:12 | - | 1.16 |
| 13C-2,3,4,6,7,8-HxCDF | 100 | 3.84e+07 | 0.50 y | 34:48 | - | 1.00 |
| 13C-1,2,3,7,8,9-HxCDF | 100 | 3.52e+07 | 0.51 y | 35:45 | - | 0.91 |
| 13C-1,2,3,4,6,7,8-HpCDF | 100 | 2.82e+07 | 0.43 y | 37:35 | - | 0.73 |
| 13C-1,2,3,4,7,8,9-HpCDF | 100 | 2.56e+07 | 0.43 y | 39:23 | - | 0.66 |
| 13C-OCDF | 200 | 5.88e+07 | 0.89 y | 42:22 | - | 0.76 |

| | | | | | | |
|-----------------------|------|----------|--------|-------|---|------|
| 37Cl-2,3,7,8-TCDD | 40.0 | 1.64e+07 | | 27:07 | - | 1.14 |
| 13C-1,2,3,4-TCDD | 100 | 3.61e+07 | 0.81 y | 26:31 | - | 1.00 |
| 13C-1,2,3,4-TCDF | 100 | 5.57e+07 | 0.77 y | 25:04 | - | 1.00 |
| 13C-1,2,3,4,6,9-HxCDF | 100 | 3.85e+07 | 0.51 y | 34:29 | - | 1.00 |

Filename: 140417D1 S: 7 Acquired: 17-APR-14 17:57:55
 Run: 140417d1 Analyte: Cal: 1613VG7-4-17-14 Results:
 Sample text: ST140417D1-6 1613 CS5 14B1102

| Name | Amount | Resp | RA | RT | RF | RRF |
|------------------------|--------|----------|--------|-------|----|------|
| 2,3,7,8-TCDD | 200 | 8.19e+07 | 0.76 y | 27:06 | - | 1.08 |
| 1,2,3,7,8-PeCDD | 1000 | 3.65e+08 | 0.62 y | 31:39 | - | 0.90 |
| 1,2,3,4,7,8-HxCDD | 1000 | 3.21e+08 | 1.31 y | 34:59 | - | 1.12 |
| 1,2,3,6,7,8-HxCDD | 1000 | 3.16e+08 | 1.17 y | 35:05 | - | 1.08 |
| 1,2,3,7,8,9-HxCDD | 1000 | 3.25e+08 | 1.23 y | 35:23 | - | 0.93 |
| 1,2,3,4,6,7,8-HpCDD | 1000 | 2.87e+08 | 1.01 y | 38:51 | - | 1.06 |
| OCDD | 2000 | 5.18e+08 | 0.89 y | 42:09 | - | 1.10 |
| 2,3,7,8-TCDF | 200 | 1.05e+08 | 0.78 y | 26:20 | - | 0.98 |
| 1,2,3,7,8-PeCDF | 1000 | 5.40e+08 | 1.59 y | 30:27 | - | 1.03 |
| 2,3,4,7,8-PeCDF | 1000 | 5.46e+08 | 1.59 y | 31:22 | - | 1.00 |
| 1,2,3,4,7,8-HxCDF | 1000 | 4.98e+08 | 1.29 y | 34:05 | - | 1.38 |
| 1,2,3,6,7,8-HxCDF | 1000 | 5.37e+08 | 1.30 y | 34:12 | - | 1.23 |
| 2,3,4,6,7,8-HxCDF | 1000 | 5.06e+08 | 1.29 y | 34:48 | - | 1.28 |
| 1,2,3,7,8,9-HxCDF | 1000 | 4.10e+08 | 1.32 y | 35:46 | - | 1.21 |
| 1,2,3,4,6,7,8-HpCDF | 1000 | 4.60e+08 | 1.08 y | 37:36 | - | 1.65 |
| 1,2,3,4,7,8,9-HpCDF | 1000 | 3.92e+08 | 1.09 y | 39:24 | - | 1.55 |
| OCDF | 2000 | 6.63e+08 | 0.93 y | 42:22 | - | 1.11 |
| Total Tetra-Dioxins | 0.00 | - | - n | - | - | 1.08 |
| TCDD EMPC | 0.00 | - | - n | - | - | 1.08 |
| Total Penta-Dioxins | 0.00 | - | - n | - | - | 0.90 |
| PeCDD EMPC | 0.00 | - | - n | - | - | 0.90 |
| Total Hexa-Dioxins | 0.00 | - | - n | - | - | 1.04 |
| HxCDD EMPC | 0.00 | - | - n | - | - | 1.04 |
| Total Hepta-Dioxins | 0.00 | - | - n | - | - | 1.06 |
| HpCDD EMPC | 0.00 | - | - n | - | - | 1.06 |
| Total Tetra-Furans | 0.00 | - | - n | - | - | 0.98 |
| TCDF EMPC | 0.00 | - | - n | - | - | 0.98 |
| 1st Func. Penta-Furans | 0.00 | - | - n | - | - | 1.01 |
| 1st Func. PeCDF EMPC | 0.00 | - | - n | - | - | 1.01 |
| Total Penta-Furans | 0.00 | - | - n | - | - | 1.01 |
| PeCDF EMPC | 0.00 | - | - n | - | - | 1.01 |
| Total Hexa-Furans | 0.00 | - | - n | - | - | 1.27 |
| HxCDF EMPC | 0.00 | - | - n | - | - | 1.27 |
| Total Hepta-Furans | 0.00 | - | - n | - | - | 1.60 |
| HpCDF EMPC | 0.00 | - | - n | - | - | 1.60 |
| 13C-2,3,7,8-TCDD | 100 | 3.77e+07 | 0.81 y | 27:05 | - | 1.05 |
| 13C-1,2,3,7,8-PeCDD | 100 | 4.04e+07 | 0.63 y | 31:38 | - | 1.12 |
| 13C-1,2,3,4,7,8-HxCDD | 100 | 2.86e+07 | 1.26 y | 34:57 | - | 0.78 |
| 13C-1,2,3,6,7,8-HxCDD | 100 | 2.94e+07 | 1.25 y | 35:04 | - | 0.80 |

| | | | | | | |
|-------------------------|-----|----------|--------|-------|---|------|
| 13C-1,2,3,7,8,9-HxCDD | 100 | 3.49e+07 | 1.25 y | 35:22 | - | 0.95 |
| 13C-1,2,3,4,6,7,8-HpCDD | 100 | 2.71e+07 | 1.05 y | 38:50 | - | 0.74 |
| 13C-OCDD | 200 | 4.71e+07 | 0.89 y | 42:09 | - | 0.64 |
| 13C-2,3,7,8-TCDF | 100 | 5.36e+07 | 0.77 y | 26:13 | - | 1.00 |
| 13C-1,2,3,7,8-PeCDF | 100 | 5.22e+07 | 1.55 y | 30:27 | - | 0.98 |
| 13C-2,3,4,7,8-PeCDF | 100 | 5.48e+07 | 1.54 y | 31:21 | - | 1.03 |
| 13C-1,2,3,4,7,8-HxCDF | 100 | 3.60e+07 | 0.51 y | 34:04 | - | 0.98 |
| 13C-1,2,3,6,7,8-HxCDF | 100 | 4.38e+07 | 0.52 y | 34:11 | - | 1.19 |
| 13C-2,3,4,6,7,8-HxCDF | 100 | 3.95e+07 | 0.51 y | 34:47 | - | 1.08 |
| 13C-1,2,3,7,8,9-HxCDF | 100 | 3.40e+07 | 0.51 y | 35:45 | - | 0.93 |
| 13C-1,2,3,4,6,7,8-HpCDF | 100 | 2.78e+07 | 0.44 y | 37:35 | - | 0.76 |
| 13C-1,2,3,4,7,8,9-HpCDF | 100 | 2.53e+07 | 0.43 y | 39:23 | - | 0.69 |
| 13C-OCDF | 200 | 5.95e+07 | 0.89 y | 42:22 | - | 0.81 |

| | | | | | | |
|-----------------------|-----|----------|--------|-------|---|------|
| 37Cl-2,3,7,8-TCDD | 200 | 8.25e+07 | | 27:06 | - | 1.14 |
| 13C-1,2,3,4-TCDD | 100 | 3.60e+07 | 0.81 y | 26:31 | - | 1.00 |
| 13C-1,2,3,4-TCDF | 100 | 5.34e+07 | 0.76 y | 25:04 | - | 1.00 |
| 13C-1,2,3,4,6,9-HxCDF | 100 | 3.66e+07 | 0.51 y | 34:29 | - | 1.00 |

Analyte:

Cal: 1613VG7-4-17-14

Inst. ID. VG-7

Data filename: 140417D1

| Name | RRT Limits | | Samp# 1 | Samp# 3 | Samp# 4 | Samp# 5 | Samp# 6 | Samp# 7 |
|-------------------------|------------|--------|---------|---------|---------|---------|---------|---------|
| | Lower | Upper | 10 | 0.25 | 0.50 | 2.0 | 40 | 200 |
| 2,3,7,8-TCDD | 0.999 | -1.002 | 1.001 | 1.000 | 1.001 | 1.001 | 1.001 | 1.001 |
| 1,2,3,7,8-PeCDD | 0.999 | -1.002 | 1.000 | 1.000 | 1.001 | 1.000 | 1.001 | 1.001 |
| 1,2,3,4,7,8-HxCDD | 0.999 | -1.001 | 1.001 | 1.000 | 1.001 | 1.000 | 1.000 | 1.001 |
| 1,2,3,6,7,8-HxCDD | 0.998 | -1.004 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 | 1.001 |
| 1,2,3,7,8,9-HxCDD | 0.998 | -1.004 | 1.001 | 1.000 | 1.000 | 1.001 | 1.000 | 1.000 |
| 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 | 1.001 | 1.001 | 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 | 1.001 | 1.000 | 1.001 | 1.001 |
| 1,2,3,6,7,8-HxCDF | 0.997 | -1.005 | 1.001 | 1.001 | 1.000 | 1.001 | 1.000 | 1.000 |
| 2,3,4,6,7,8-HxCDF | 0.999 | -1.001 | 1.001 | 1.000 | 1.001 | 1.001 | 1.000 | 1.001 |
| 1,2,3,7,8,9-HxCDF | 0.999 | -1.001 | 1.001 | 1.000 | 1.000 | 1.001 | 1.000 | 1.000 |
| 1,2,3,4,6,7,8-HpCDF | 0.999 | -1.001 | 1.000 | 1.000 | 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 | 1.022 | 1.022 | 1.022 | 1.022 | 1.022 | 1.022 |
| 13C-1,2,3,7,8-PeCDD | 1.000 | -1.567 | 1.195 | 1.193 | 1.193 | 1.193 | 1.193 | 1.193 |
| 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 | 1.127 | 1.126 | 1.127 | 1.127 |
| 13C-OCDD | 1.085 | -1.365 | 1.222 | 1.222 | 1.222 | 1.222 | 1.222 | 1.222 |
| 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 | 1.150 | 1.148 | 1.149 | 1.148 | 1.148 | 1.148 |
| 13C-2,3,4,7,8-PeCDF | 1.011 | -1.526 | 1.184 | 1.183 | 1.183 | 1.182 | 1.183 | 1.183 |
| 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 | 0.992 | 0.992 | 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 | 1.037 | 1.037 | 1.037 | 1.037 |
| 13C-1,2,3,4,6,7,8-HpCDF | 1.069 | -1.111 | 1.090 | 1.090 | 1.090 | 1.090 | 1.090 | 1.090 |
| 13C-1,2,3,4,7,8,9-HpCDF | 1.098 | -1.192 | 1.143 | 1.142 | 1.142 | 1.142 | 1.143 | 1.142 |
| 13C-OCDF | 1.091 | -1.371 | 1.229 | 1.229 | 1.229 | 1.229 | 1.229 | 1.229 |
| 37Cl-2,3,7,8-TCDD | 0.989 | -1.052 | 1.023 | 1.023 | 1.023 | 1.023 | 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 | * | * | * | * | * | * |

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory

Episode No.:

CCAL ID: ST140417D1-1

Contract No.:

SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 140417D1 S#1 Analysis Date: 17-APR-14 Time: 13:06:06

| | M/Z'S | ION | QC | Pass | CONC. FOUND | CONC. RANGE (3) (ng/mL) |
|---------------------|----------------------|-----------------|---------------|------|----------------|-------------------------------|
| | FORMING RATIO (1) | ABUND. RATIO | LIMITS (2) | | | |
| NATIVE ANALYTES | | | | | | |
| 2,3,7,8-TCDD | M/M+2 | 0.75 | 0.65-0.89 | y | 9.73 | 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 | 51.2 | 39.0 - 65.0 |
| 1,2,3,4,7,8-HxCDD | M+2/M+4 | 1.31 | 1.05-1.43 | y | 50.3 | 39.0 - 64.0 |
| 1,2,3,6,7,8-HxCDD | M+2/M+4 | 1.21 | 1.05-1.43 | y | 50.1 | 39.0 - 64.0 |
| 1,2,3,7,8,9-HxCDD | M+2/M+4 | 1.26 | 1.05-1.43 | y | 51.0 | 41.0 - 61.0 |
| 1,2,3,4,6,7,8-HpCDD | M+2/M+4 | 1.02 | 0.88-1.20 | y | 49.3 | 43.0 - 58.0 |
| OCDD | M+2/M+4 | 0.88 | 0.76-1.02 | y | 101 | 79.0 - 126.0 |
| 2,3,7,8-TCDF | M/M+2 | 0.80 | 0.65-0.89 | y | 9.90 | 8.4 - 12.0 8.6 - 11.6 (4) |
| 1,2,3,7,8-PeCDF | M+2/M+4 | 1.59 | 1.32-1.78 | y | 50.6 | 41.0 - 60.0 |
| 2,3,4,7,8-PeCDF | M+2/M+4 | 1.57 | 1.32-1.78 | y | 50.8 | 41.0 - 61.0 |
| 1,2,3,4,7,8-HxCDF | M+2/M+4 | 1.31 | 1.05-1.43 | y | 51.9 | 45.0 - 56.0 |
| 1,2,3,6,7,8-HxCDF | M+2/M+4 | 1.30 | 1.05-1.43 | y | 51.1 | 44.0 - 57.0 |
| 2,3,4,6,7,8-HxCDF | M+2/M+4 | 1.30 | 1.05-1.43 | y | 51.2 | 44.0 - 57.0 |
| 1,2,3,7,8,9-HxCDF | M+2/M+4 | 1.33 | 1.05-1.43 | y | 50.3 | 45.0 - 56.0 |
| 1,2,3,4,6,7,8-HpCDF | M+2/M+4 | 1.07 | 0.88-1.20 | y | 50.4 | 45.0 - 55.0 |
| 1,2,3,4,7,8,9-HpCDF | M+2/M+4 | 1.11 | 0.88-1.20 | y | 51.3 | 43.0 - 58.0 |
| OCDF | M+2/M+4 | 0.93 | 0.76-1.02 | y | 103 | 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: mDate: 4/18/14

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7 GC Column ID: ZB-SMS

VER Data Filename: 140417D1 S#1 Analysis Date: 17-APR-14 Time: 13:06:06

| Labeled Compounds | M/Z'S | ION | QC | Pass | CONC. FOUND | CONC. RANGE (ng/mL) |
|-------------------------|----------------------|-----------------|---------------|------|----------------|---------------------------|
| | FORMING RATIO (1) | ABUND. RATIO | LIMITS (2) | | | |
| 13C-2,3,7,8-TCDD | M/M+2 | 0.79 | 0.65-0.89 | y | 102 | 82.0 - 121.0 |
| 13C-1,2,3,7,8-PeCDD | M/M+2 | 0.62 | 0.54-0.72 | y | 91.5 | 62.0 - 160.0 |
| 13C-1,2,3,4,7,8-HxCDD | M+2/M+4 | 1.24 | 1.05-1.43 | y | 95.7 | 85.0 - 117.0 |
| 13C-1,2,3,6,7,8-HxCDD | M+2/M+4 | 1.24 | 1.05-1.43 | y | 97.1 | 85.0 - 118.0 |
| 13C-1,2,3,7,8,9-HxCDD | M+2/M+4 | 1.24 | 1.05-1.43 | y | 93.9 | 85.0 - 118.0 |
| 13C-1,2,3,4,6,7,8-HpCDD | M+2/M+4 | 1.07 | 0.88-1.20 | y | 95.6 | 72.0 - 138.0 |
| 13C-OCDD | M/M+2 | 0.89 | 0.76-1.02 | y | 184 | 96.0 - 415.0 |
| 13C-2,3,7,8-TCDF | M+2/M+4 | 0.77 | 0.65-0.89 | y | 104 | 71.0 - 140.0 |
| 13C-1,2,3,7,8-PeCDF | M+2/M+4 | 1.57 | 1.32-1.78 | y | 107 | 76.0 - 130.0 |
| 13C-2,3,4,7,8-PeCDF | M+2/M+4 | 1.53 | 1.32-1.78 | y | 102 | 77.0 - 130.0 |
| 13C-1,2,3,4,7,8-HxCDF | M/M+2 | 0.52 | 0.43-0.59 | y | 97.1 | 76.0 - 131.0 |
| 13C-1,2,3,6,7,8-HxCDF | M/M+2 | 0.52 | 0.43-0.59 | y | 99.9 | 70.0 - 143.0 |
| 13C-2,3,4,6,7,8-HxCDF | M/M+2 | 0.50 | 0.43-0.59 | y | 98.9 | 73.0 - 137.0 |
| 13C-1,2,3,7,8,9-HxCDF | M/M+2 | 0.51 | 0.43-0.59 | y | 93.5 | 74.0 - 135.0 |
| 13C-1,2,3,4,6,7,8-HpCDF | M+2/M+4 | 0.42 | 0.37-0.51 | y | 94.4 | 78.0 - 129.0 |
| 13C-1,2,3,4,7,8,9-HpCDF | M+2/M+4 | 0.42 | 0.37-0.51 | y | 91.0 | 77.0 - 129.0 |
| 13C-OCDF | M+2/M+4 | 0.89 | 0.76-1.02 | y | 198 | 96.0 - 415.0 |
| CLEANUP STANDARD (3) | | | | | | |
| 37Cl-2,3,7,8-TCDD | | | | | 9.56 | 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: 4/19/14

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory

Episode No.:

CCAL ID: ST140417D1-1

Contract No.:

SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7

GC Column ID: ZB-SMS

VER Data Filename: 140417D1 S#1 Analysis Date: 17-APR-14 Time: 13:06:06

| | M/Z'S | ION | QC | Pass | CONC. | CONC. |
|---------------------|---------|--------|-----------|------|-------|-------------|
| | FORMING | ABUND. | LIMITS | | FOUND | RANGE |
| NATIVE ANALYTES | RATIO | RATIO | | | | (ng/mL) |
| 2,3,7,8-TCDD | M/M+2 | 0.75 | 0.65-0.89 | y | 9.73 | 8.00 - 12.0 |
| 1,2,3,7,8-PeCDD | M/M+2 | 0.61 | 0.54-0.72 | y | 51.2 | 40.0 - 60.0 |
| 1,2,3,4,7,8-HxCDD | M+2/M+4 | 1.31 | 1.05-1.43 | y | 50.3 | 40.0 - 60.0 |
| 1,2,3,6,7,8-HxCDD | M+2/M+4 | 1.21 | 1.05-1.43 | y | 50.1 | 40.0 - 60.0 |
| 1,2,3,7,8,9-HxCDD | M+2/M+4 | 1.26 | 1.05-1.43 | y | 51.0 | 40.0 - 60.0 |
| 1,2,3,4,6,7,8-HpCDD | M+2/M+4 | 1.02 | 0.88-1.20 | y | 49.3 | 40.0 - 60.0 |
| OCDD | M+2/M+4 | 0.88 | 0.76-1.02 | y | 101 | 80.0 - 120 |
| 2,3,7,8-TCDF | M/M+2 | 0.80 | 0.65-0.89 | y | 9.90 | 8.00 - 12.0 |
| 1,2,3,7,8-PeCDF | M+2/M+4 | 1.59 | 1.32-1.78 | y | 50.6 | 40.0 - 60.0 |
| 2,3,4,7,8-PeCDF | M+2/M+4 | 1.57 | 1.32-1.78 | y | 50.8 | 40.0 - 60.0 |
| 1,2,3,4,7,8-HxCDF | M+2/M+4 | 1.31 | 1.05-1.43 | y | 51.9 | 40.0 - 60.0 |
| 1,2,3,6,7,8-HxCDF | M+2/M+4 | 1.30 | 1.05-1.43 | y | 51.1 | 40.0 - 60.0 |
| 2,3,4,6,7,8-HxCDF | M+2/M+4 | 1.30 | 1.05-1.43 | y | 51.2 | 40.0 - 60.0 |
| 1,2,3,7,8,9-HxCDF | M+2/M+4 | 1.33 | 1.05-1.43 | y | 50.3 | 40.0 - 60.0 |
| 1,2,3,4,6,7,8-HpCDF | M+2/M+4 | 1.07 | 0.88-1.20 | y | 50.4 | 40.0 - 60.0 |
| 1,2,3,4,7,8,9-HpCDF | M+2/M+4 | 1.11 | 0.88-1.20 | y | 51.3 | 40.0 - 60.0 |
| OCDF | M+2/M+4 | 0.93 | 0.76-1.02 | y | 103 | 80.0 - 120 |

Analyst: MDate: 4/14/14

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 140417D1 S#1 Analysis Date: 17-APR-14 Time: 13:06:06

| Labeled Compounds | M/Z'S | ION | QC | Pass | CONC. | CONC. |
|-------------------------|---------|--------|-----------|------|-------|-------------|
| | FORMING | ABUND. | LIMITS | | FOUND | RANGE |
| | RATIO | RATIO | | | | (ng/mL) |
| 13C-2,3,7,8-TCDD | M/M+2 | 0.79 | 0.65-0.89 | y | 102 | 70.0 - 130 |
| 13C-1,2,3,7,8-PeCDD | M/M+2 | 0.62 | 0.54-0.72 | y | 91.5 | 70.0 - 130 |
| 13C-1,2,3,4,7,8-HxCDD | M+2/M+4 | 1.24 | 1.05-1.43 | y | 95.7 | 70.0 - 130 |
| 13C-1,2,3,6,7,8-HxCDD | M+2/M+4 | 1.24 | 1.05-1.43 | y | 97.1 | 70.0 - 130 |
| 13C-1,2,3,7,8,9-HxCDD | M+2/M+4 | 1.24 | 1.05-1.43 | y | 93.9 | 70.0 - 130 |
| 13C-1,2,3,4,6,7,8-HpCDD | M+2/M+4 | 1.07 | 0.88-1.20 | y | 95.6 | 70.0 - 130 |
| 13C-OCDD | M+2/M+4 | 0.89 | 0.76-1.02 | y | 184 | 140 - 260 |
| 13C-2,3,7,8-TCDF | M/M+2 | 0.77 | 0.65-0.89 | y | 104 | 70.0 - 130 |
| 13C-1,2,3,7,8-PeCDF | M+2/M+4 | 1.57 | 1.32-1.78 | y | 107 | 70.0 - 130 |
| 13C-2,3,4,7,8-PeCDF | M+2/M+4 | 1.53 | 1.32-1.78 | y | 102 | 70.0 - 130 |
| 13C-1,2,3,4,7,8-HxCDF | M/M+2 | 0.52 | 0.43-0.59 | y | 97.1 | 70.0 - 130 |
| 13C-1,2,3,6,7,8-HxCDF | M/M+2 | 0.52 | 0.43-0.59 | y | 99.9 | 70.0 - 130 |
| 13C-2,3,4,6,7,8-HxCDF | M/M+2 | 0.50 | 0.43-0.59 | y | 98.9 | 70.0 - 130 |
| 13C-1,2,3,7,8,9-HxCDF | M/M+2 | 0.51 | 0.43-0.59 | y | 93.5 | 70.0 - 130 |
| 13C-1,2,3,4,6,7,8-HpCDF | M/M+2 | 0.42 | 0.37-0.51 | y | 94.4 | 70.0 - 130 |
| 13C-1,2,3,4,7,8,9-HpCDF | M/M+2 | 0.42 | 0.37-0.51 | y | 91.0 | 70.0 - 130 |
| 13C-OCDF | M+2/M+4 | 0.89 | 0.76-1.02 | y | 198 | 140 - 260 |
| CLEANUP STANDARD | | | | | | |
| 37Cl-2,3,7,8-TCDD | | | | | 9.56 | 7.00 - 13.0 |

Analyst: msDate: 4/18/14

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: 4-17-14

RT Window Data Filename: 140417D1 S#1 Analysis Date: 17-APR-14 Time: 13:06:06

ZB-5MS IS Data Filename: 140417D1 S#1 Analysis Date: 17-APR-14 Time: 13:06:06

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) | 23:36 | 1,3,6,8-TCDF (F) | 21:25 |
| 1,2,8,9-TCDD (L) | 27:57 | 1,2,8,9-TCDF (L) | 28:06 |
| 1,2,4,7,9-PeCDD (F) | 29:34 | 1,3,4,6,8-PeCDF (F) | 28:02 |
| 1,2,3,8,9-PeCDD (L) | 32:00 | 1,2,3,8,9-PeCDF (L) | 32:15 |
| 1,2,4,6,7,9-HxCDD (F) | 33:25 | 1,2,3,4,6,8-HxCDF (F) | 32:53 |
| 1,2,3,7,8,9-HxCDD (L) | 35:23 | 1,2,3,7,8,9-HxCDF (L) | 35:46 |
| 1,2,3,4,6,7,9-HpCDD (F) | 37:59 | 1,2,3,4,6,7,8-HpCDF (F) | 37:36 |
| 1,2,3,4,6,7,8-HpCDD (L) | 38:51 | 1,2,3,4,7,8,9-HpCDF (L) | 39:24 |

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: ms

Date: 4/19/14

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 140417D1 S#1 Analysis Date: 17-APR-14 Time: 13:06:06

Compounds Using 13C-1234-TCDD as RT Internal Standard

| NATIVE ANALYTES | RETENTION TIME | RRT | RRT |
|-----------------|---------------------|-------|---------------|
| | REFERENCE | | 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 |

(1) Contract-required limits for
Relative Retention Times (RRT)
as specified in Table 2, Method 1613. 10/94

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 | 1.195 | 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 | 1.150 | 1.000-1.425 |
| 13C-2,3,4,7,8-PeCDF | 13C-1,2,3,4-TCDD | 1.184 | 1.011-1.526 |
| 37Cl-2,3,7,8-TCDD | 13C-1,2,3,4-TCDD | 1.023 | 0.989-1.052 |

Analyst: MS

Date: 4/18/14

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 140417D1 S#1 Analysis Date: 17-APR-14 Time: 13:06:06

| NATIVE ANALYTES | RETENTION TIME | RRT | RRT |
|---------------------|-------------------------|-------|---------------|
| | REFERENCE | | 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 | 1.001 | 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 | 1.001 | 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 |

(1) Contract-required limits for
Relative Retention Times (RRT)
as specified in Table 2, Method 1613. 10/94

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 | 1.090 | 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 | 1.222 | 1.085-1.365 |
| 13C-OCDF | 13C-1,2,3,4,6,9-HxCDF | 1.229 | 1.091-1.371 |

Analyst: MS

Date: 4/13/14

Client ID: 1613 CS3 13L1811
Lab ID: ST140417D1-1

Filename: 140417D1 S:1 Acq:17-APR-14 13:06:06
GC Column ID: ZB-5MS ICal: 1613VG7-4-17-14 wt/vol: 1.000

ConCal: NA
EndCAL: NA

| Name | Resp | RA | RRF | RT | RRT | Conc | Q | noise | Fac | DL | Name | Conc | EMPC | Qual | noise | DL |
|-----------------------------|----------|--------|------|-------|-------|--------|---|-------|-----|----|----------------------|--------------|--------|------|-------|----------------------|
| 2,3,7,8-TCDD | 3.94e+06 | 0.75 y | 1.03 | 27:04 | 1.001 | 9.7259 | * | 2.5 | * | * | Total Tetra-Dioxins | 53.0 | 53.2 | * | * | |
| 1,2,3,7,8-PeCDD | 1.55e+07 | 0.61 y | 0.84 | 31:38 | 1.000 | 51.209 | * | 2.5 | * | * | Total Penta-Dioxins | 167 | 167 | * | * | |
| 1,2,3,4,7,8-HxCDD | 1.44e+07 | 1.31 y | 1.05 | 34:59 | 1.001 | 50.337 | * | 2.5 | * | * | Total Hexa-Dioxins | 207 | 207 | * | * | |
| 1,2,3,6,7,8-HxCDD | 1.46e+07 | 1.21 y | 1.04 | 35:05 | 1.001 | 50.117 | * | 2.5 | * | * | Total Hepta-Dioxins | 116 | 116 | * | * | |
| 1,2,3,7,8,9-HxCDD | 1.47e+07 | 1.26 y | 0.90 | 35:23 | 1.001 | 50.982 | * | 2.5 | * | * | Total Tetra-Furans | 30.6 | 30.8 | * | * | |
| 1,2,3,4,6,7,8-HpCDD | 1.28e+07 | 1.02 y | 1.01 | 38:51 | 1.000 | 49.274 | * | 2.5 | * | * | Total Penta-Furans | 194.29 | 194.58 | * | * | |
| OCDD | 2.19e+07 | 0.88 y | 1.04 | 42:09 | 1.000 | 101.04 | * | 2.5 | * | * | Total Hexa-Furans | 259 | 259 | * | * | |
| | | | | | | | | | | | Total Hepta-Furans | 102 | 103 | * | * | |
| 2,3,7,8-TCDF | 5.01e+06 | 0.80 y | 0.91 | 26:17 | 1.001 | 9.8994 | * | 2.5 | * | * | | | | | | |
| 1,2,3,7,8-PeCDF | 2.86e+07 | 1.59 y | 0.97 | 30:27 | 1.000 | 50.623 | * | 2.5 | * | * | | | | | | |
| 2,3,4,7,8-PeCDF | 2.69e+07 | 1.57 y | 0.94 | 31:21 | 1.000 | 50.809 | * | 2.5 | * | * | | | | | | |
| 1,2,3,4,7,8-HxCDF | 2.40e+07 | 1.31 y | 1.32 | 34:04 | 1.000 | 51.860 | * | 2.5 | * | * | | | | | | |
| 1,2,3,6,7,8-HxCDF | 2.83e+07 | 1.30 y | 1.18 | 34:12 | 1.001 | 51.131 | * | 2.5 | * | * | | | | | | |
| 2,3,4,6,7,8-HxCDF | 2.47e+07 | 1.30 y | 1.23 | 34:48 | 1.001 | 51.243 | * | 2.5 | * | * | | | | | | |
| 1,2,3,7,8,9-HxCDF | 1.81e+07 | 1.33 y | 1.13 | 35:46 | 1.001 | 50.349 | * | 2.5 | * | * | | | | | | |
| 1,2,3,4,6,7,8-HpCDF | 2.03e+07 | 1.07 y | 1.57 | 37:36 | 1.000 | 50.428 | * | 2.5 | * | * | | | | | | |
| 1,2,3,4,7,8,9-HpCDF | 1.73e+07 | 1.11 y | 1.50 | 39:24 | 1.000 | 51.316 | * | 2.5 | * | * | | | | | | |
| OCDF | 3.12e+07 | 0.93 y | 1.05 | 42:23 | 1.000 | 102.75 | * | 2.5 | * | * | | | | | | |
| | | | | | | | | | | | Rec | Qual | | | | |
| IS 13C-2,3,7,8-TCDD | 3.92e+07 | 0.79 y | 1.06 | 27:03 | 1.022 | 101.79 | | | | | 102 | | | | | |
| IS 13C-1,2,3,7,8-PeCDD | 3.60e+07 | 0.62 y | 1.08 | 31:37 | 1.195 | 91.491 | | | | | 91.5 | | | | | |
| IS 13C-1,2,3,4,7,8-HxCDD | 2.73e+07 | 1.24 y | 0.74 | 34:57 | 1.014 | 95.672 | | | | | 95.7 | | | | | |
| IS 13C-1,2,3,6,7,8-HxCDD | 2.80e+07 | 1.24 y | 0.75 | 35:04 | 1.017 | 97.064 | | | | | 97.1 | | | | | |
| IS 13C-1,2,3,7,8,9-HxCDD | 3.22e+07 | 1.24 y | 0.89 | 35:22 | 1.026 | 93.879 | | | | | 93.9 | | | | | |
| IS 13C-1,2,3,4,6,7,8-HpCDD | 2.58e+07 | 1.07 y | 0.70 | 38:50 | 1.127 | 95.641 | | | | | 95.6 | | | | | |
| IS 13C-OCDD | 4.16e+07 | 0.89 y | 0.59 | 42:09 | 1.222 | 183.87 | | | | | 91.9 | | | | | |
| IS 13C-2,3,7,8-TCDF | 5.56e+07 | 0.77 y | 0.97 | 26:16 | 0.992 | 104.32 | | | | | 104 | | | | | |
| IS 13C-1,2,3,7,8-PeCDF | 5.82e+07 | 1.57 y | 0.99 | 30:26 | 1.150 | 106.78 | | | | | 107 | | | | | |
| IS 13C-2,3,4,7,8-PeCDF | 5.64e+07 | 1.53 y | 1.01 | 31:20 | 1.184 | 101.67 | | | | | 102 | | | | | |
| IS 13C-1,2,3,4,7,8-HxCDF | 3.51e+07 | 0.52 y | 0.94 | 34:04 | 0.988 | 97.063 | | | | | 97.1 | | | | | |
| IS 13C-1,2,3,6,7,8-HxCDF | 4.72e+07 | 0.52 y | 1.23 | 34:11 | 0.992 | 99.921 | | | | | 99.9 | | | | | |
| IS 13C-2,3,4,6,7,8-HxCDF | 3.93e+07 | 0.50 y | 1.03 | 34:47 | 1.009 | 98.878 | | | | | 98.9 | | | | | |
| IS 13C-1,2,3,7,8,9-HxCDF | 3.18e+07 | 0.51 y | 0.89 | 35:45 | 1.037 | 93.526 | | | | | 93.5 | | | | | |
| IS 13C-1,2,3,4,6,7,8-HpCDF | 2.56e+07 | 0.42 y | 0.71 | 37:35 | 1.090 | 94.369 | | | | | 94.4 | | | | | |
| IS 13C-1,2,3,4,7,8,9-HpCDF | 2.25e+07 | 0.42 y | 0.64 | 39:23 | 1.143 | 91.044 | | | | | 91.0 | | | | | |
| IS 13C-OCDF | 5.76e+07 | 0.89 y | 0.76 | 42:22 | 1.229 | 197.67 | | | | | 98.8 | | | | | |
| C/Up 37C1-2,3,7,8-TCDD | 3.62e+06 | | 1.04 | 27:04 | 1.023 | 9.5628 | | | | | 95.6 | | | | | |
| | | | | | | | | | | | | Integrations | | | | Reviewed |
| | | | | | | | | | | | | by | | | | by |
| RS/RT 13C-1,2,3,4-TCDD | 3.62e+07 | 0.81 y | 1.00 | 26:28 | * | 100.00 | | | | | Analyst: <i>ms</i> | | | | | Analyst: <i>92</i> |
| RS 13C-1,2,3,4-TCDF | 5.51e+07 | 0.76 y | 1.00 | 25:00 | * | 100.00 | | | | | | | | | | |
| RS/RT 13C-1,2,3,4,6,9-HxCDF | 3.84e+07 | 0.52 y | 1.00 | 34:29 | * | 100.00 | | | | | | | | | | |
| | | | | | | | | | | | Date: <i>4/18/14</i> | | | | | Date: <i>4/18/17</i> |

Vista Analytical Laboratory - Injection Log Run file: 140417D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

| Data file | S# | Sample ID | Analyst | Acq date | Acq time | CCal | ECal |
|-----------|----|---------------|---------|-----------|----------|------|------|
| 140417D1 | 1 | ST140417D1-1 | MAS | 17-APR-14 | 13:06:06 | NA | NA |
| 140417D1 | 2 | SOLVENT BLANK | MAS | 17-APR-14 | 13:54:44 | NA | NA |
| 140417D1 | 3 | ST140417D1-2 | MAS | 17-APR-14 | 14:43:22 | NA | NA |
| 140417D1 | 4 | ST140417D1-3 | MAS | 17-APR-14 | 15:31:59 | NA | NA |
| 140417D1 | 5 | ST140417D1-4 | MAS | 17-APR-14 | 16:20:38 | NA | NA |
| 140417D1 | 6 | ST140417D1-5 | MAS | 17-APR-14 | 17:09:17 | NA | NA |
| 140417D1 | 7 | ST140417D1-6 | MAS | 17-APR-14 | 17:57:55 | NA | NA |
| 140417D1 | 8 | SOLVENT BLANK | MAS | 17-APR-14 | 18:46:34 | NA | NA |
| 140417D1 | 9 | SS140417D1-1 | MAS | 17-APR-14 | 19:35:12 | NA | NA |

Initial Calibration RRF Summary (ICAL)

Vista Analytical Laboratory

Run: 140310D2

Analyte:

Cal: 1613TCDFVG7-3-10-14

Inst. ID. VG-7

Data filename: 140310D2

| 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 | 0.93 | 3.36 % | 0.92 | 0.99 | 0.90 | 0.91 | 0.91 | 0.94 |
| 2,3,7,8-TCDF | 1.16 | 5.34 % | 1.23 | 1.17 | 1.07 | 1.10 | 1.17 | 1.21 |

m) 3/11/14

FEB 3/17/14

Filename: 140310D2 S: 3 Acquired: 10-MAR-14 17:05:35
Run: 140310D2 Analyte: Cal: 1613TCDFVG7-3-10-14Results:
Sample text: ST140310D2-1 1613 CS0 13L1808

| Name | Amount | Resp | RA | RT | RF | RRF |
|------------------|--------|----------|--------|-------|----|------|
| 13C-1,2,3,4-TCDF | 100 | 2.47e+07 | 0.79 y | 15:26 | - | 1.00 |
| 13C-2,3,7,8-TCDF | 100 | 2.26e+07 | 0.80 y | 17:44 | - | 0.92 |
| 2,3,7,8-TCDF | 0.250 | 6.92e+04 | 0.77 y | 17:45 | - | 1.23 |

Filename: 140310D2 S: 4 Acquired: 10-MAR-14 17:37:42
Run: 140310D2 Analyte: Cal: 1613TCDFVG7-3-10-14Results:
Sample text: ST140310D2-2 1613 CS1 13L1809

| Name | Amount | Resp | RA | RT | RF | RRF |
|------------------|--------|----------|--------|-------|----|------|
| 13C-1,2,3,4-TCDF | 100 | 2.33e+07 | 0.80 y | 15:25 | - | 1.00 |
| 13C-2,3,7,8-TCDF | 100 | 2.30e+07 | 0.82 y | 17:44 | - | 0.99 |
| 2,3,7,8-TCDF | 0.500 | 1.35e+05 | 0.80 y | 17:46 | - | 1.17 |

Filename: 140310D2 S: 5 Acquired: 10-MAR-14 18:09:47
Run: 140310D2 Analyte: Cal: 1613TCDFVG7-3-10-14Results:
Sample text: ST140310D2-3 1613 CS2 14B1101

| Name | Amount | Resp | RA | RT | RF | RRF |
|------------------|--------|----------|--------|-------|----|------|
| 13C-1,2,3,4-TCDF | 100 | 2.48e+07 | 0.81 y | 15:27 | - | 1.00 |
| 13C-2,3,7,8-TCDF | 100 | 2.24e+07 | 0.81 y | 17:45 | - | 0.90 |
| 2,3,7,8-TCDF | 2.00 | 4.79e+05 | 0.83 y | 17:46 | - | 1.07 |

Filename: 140310D2 S: 6 Acquired: 10-MAR-14 18:41:51
Run: 140310D2 Analyte: Cal: 1613TCDFVG7-3-10-14Results:
Sample text: ST140310D2-4 1613 CS3 13L1811

| Name | Amount | Resp | RA | RT | RF | RRF |
|------------------|--------|----------|--------|-------|----|------|
| 13C-1,2,3,4-TCDF | 100 | 2.40e+07 | 0.82 y | 15:27 | - | 1.00 |
| 13C-2,3,7,8-TCDF | 100 | 2.19e+07 | 0.80 y | 17:46 | - | 0.91 |
| 2,3,7,8-TCDF | 10.0 | 2.42e+06 | 0.83 y | 17:47 | - | 1.10 |

Filename: 140310D2 S: 7 Acquired: 10-MAR-14 19:13:55
Run: 140310D2 Analyte: Cal: 1613TCDFVG7-3-10-14Results:
Sample text: ST140310D2-5 1613 CS4 13L1812

| Name | Amount | Resp | RA | RT | RF | RRF |
|------------------|--------|----------|--------|-------|----|------|
| 13C-1,2,3,4-TCDF | 100 | 2.56e+07 | 0.81 y | 15:27 | - | 1.00 |
| 13C-2,3,7,8-TCDF | 100 | 2.33e+07 | 0.81 y | 17:46 | - | 0.91 |
| 2,3,7,8-TCDF | 40.0 | 1.09e+07 | 0.80 y | 17:47 | - | 1.17 |

Filename: 140310D2 S: 8 Acquired: 10-MAR-14 19:46:00
Run: 140310D2 Analyte: Cal: 1613TCDFVG7-3-10-14Results:
Sample text: ST140310D2-6 1613 CS5 14B1102

| Name | Amount | Resp | RA | RT | RF | RRF |
|------------------|--------|----------|--------|-------|----|------|
| 13C-1,2,3,4-TCDF | 100 | 2.43e+07 | 0.82 y | 15:27 | - | 1.00 |
| 13C-2,3,7,8-TCDF | 100 | 2.28e+07 | 0.81 y | 17:46 | - | 0.94 |
| 2,3,7,8-TCDF | 200 | 5.52e+07 | 0.81 y | 17:47 | - | 1.21 |

FORM 4A/4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory

CCAL ID: ST140310D2-4

Initial Calibration Date: 3-10-14

Instrument ID: VG-7

GC Column ID: DB-225

VER Data Filename: 140310D2 S#6 Analysis Date: 10-MAR-14 Time: 18:41:51

| ANALYTES | M/Z'S | ION | QC | CONC. | CONC. RANGE | CONC. RANGE |
|------------------|-----------|--------|-----------|-------|--------------------------------------|--------------|
| | FORMING | ABUND. | LIMITS | | 1613 | 8290 |
| | RATIO (1) | RATIO | (2) | FOUND | (ng/mL) | (ng/mL) |
| 2,3,7,8-TCDF | M/M+2 | 0.83 | 0.65-0.89 | 9.5 | 8.4 - 12.0 (3) 8.6 - 11.6 (4) | 8.0 - 12.0 |
| 13C-2,3,7,8-TCDF | M/M+2 | 0.80 | 0.65-0.89 | 98.5 | 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: m Date: 3/11/14

Client ID: 1613 CS3 13L1811

Filename: 140310D2 S:6 Acq:10-MAR-14 18:41:51

ConCal: NA

Lab ID: ST140310D2-4

GC Column ID: DB-225 ICal: 1613TCDFVG7-3-10-14 wt/vol: 1.000

EndCAL: NA

| Name | Resp | RA | RT | RRF | Conc | Rec |
|------------------|----------|--------|-------|------|-------|------|
| 13C-1,2,3,4-TCDF | 2.40e+07 | 0.82 y | 15:27 | 1.00 | 100.0 | - |
| 13C-2,3,7,8-TCDF | 2.19e+07 | 0.80 y | 17:46 | 0.93 | 98.48 | 98.5 |
| 2,3,7,8-TCDF | 2.42e+06 | 0.83 y | 17:47 | 1.16 | 9.504 | |

Integrations

by

Analyst: MI

Date: 3/11/14

Reviewed

by

Analyst: _____

Date: _____

Vista Analytical Laboratory - Injection Log Run file: 140310D2 Instrument ID: VG-7 GC Column ID: DB-225

| Data file | S# | Sample ID | Analyst | Acq date | Acq time | CCal | ECal |
|-----------|----|---------------|---------|-----------|----------|------|------|
| 140310D2 | 1 | CP140310D2-1 | MAS | 10-MAR-14 | 16:01:24 | NA | NA |
| 140310D2 | 2 | SOLVENT BLANK | MAS | 10-MAR-14 | 16:33:30 | NA | NA |
| 140310D2 | 3 | ST140310D2-1 | MAS | 10-MAR-14 | 17:05:35 | NA | NA |
| 140310D2 | 4 | ST140310D2-2 | MAS | 10-MAR-14 | 17:37:42 | NA | NA |
| 140310D2 | 5 | ST140310D2-3 | MAS | 10-MAR-14 | 18:09:47 | NA | NA |
| 140310D2 | 6 | ST140310D2-4 | MAS | 10-MAR-14 | 18:41:51 | NA | NA |
| 140310D2 | 7 | ST140310D2-5 | MAS | 10-MAR-14 | 19:13:55 | NA | NA |
| 140310D2 | 8 | ST140310D2-6 | MAS | 10-MAR-14 | 19:46:00 | NA | NA |
| 140310D2 | 9 | SOLVENT BLANK | MAS | 10-MAR-14 | 20:18:06 | NA | NA |
| 140310D2 | 10 | SOLVENT BLANK | MAS | 10-MAR-14 | 20:50:13 | NA | NA |
| 140310D2 | 11 | ST140310D2-7 | MAS | 10-MAR-14 | 21:22:21 | NA | NA |
| 140310D2 | 12 | SOLVENT BLANK | MAS | 10-MAR-14 | 21:54:28 | NA | NA |

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 |

DMS 6/23/14
[Signature] 6/23/14

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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 |

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|-------------|------|---------|------|------|------|------|------|------|
| 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 |

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|-----------------|------|---------|------|------|------|------|------|------|
| 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 | 0.69 |
| 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 |

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|----------------|------|---------|------|------|------|------|------|------|
| 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 Hexa-PCB | 1.26 | 9.64 % | 1.42 | 1.29 | 1.26 | 1.29 | 1.05 | 1.24 |
| 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 Nona-PCB | 1.29 | 11.68 % | 1.54 | 1.29 | 1.26 | 1.30 | 1.08 | 1.24 |
| Total Deca-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 |

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|-------------|------|--------|------|------|------|------|------|------|
| 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 |

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|----|-------|-----------------|------|----------|--------|-------|---|------|
| 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 |

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|-----|------|-------------|------|----------|--------|-------|---|------|
| 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 η | Total Mono-PCB | 0.00 | - | - n | - | - | 1.32 |
| 170 | Tot η | Total Di-PCB | 0.00 | - | - n | - | - | 1.35 |

| | | | | | | | | | |
|-----|-------|---|-----------------|--------|----------|--------|-------|---|------|
| 171 | Tot | η | Total Tri-PCB | 0.00 | - | - n | - | - | 1.36 |
| 172 | Tot | η | Total Tri-PCB | 0.00 | - | - n | - | - | 1.58 |
| 173 | Tot | η | Total Tetra-PCB | 0.00 | - | - n | - | - | 1.32 |
| 174 | Tot | η | Total Penta-PCB | 0.00 | - | - n | - | - | 1.33 |
| 175 | Tot | η | Total Penta-PCB | 0.00 | - | - n | - | - | 1.42 |
| 176 | Tot | η | Total Hexa-PCB | 0.00 | - | - n | - | - | 1.03 |
| 177 | Tot | η | Total Hexa-PCB | 0.00 | - | - n | - | - | 1.20 |
| 178 | Tot | η | Total Hepta-PCB | 0.00 | - | - n | - | - | 1.44 |
| 179 | Tot | η | Total Octa-PCB | 0.00 | - | - n | - | - | 1.04 |
| 180 | Tot | η | Total Octa-PCB | 0.00 | - | - n | - | - | 1.54 |
| 181 | Tot | η | Total Nona-PCB | 0.00 | - | - n | - | - | 1.15 |
| 182 | Tot | η | Total Deca-PCB | 0.25 | 9.69e+04 | 1.15 y | 56:37 | - | 1.27 |
| 183 | Mono | η | 13C-PCB-1 | 100.00 | 1.27e+08 | 3.28 y | 16:13 | - | 0.97 |
| 184 | Mono | η | 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-η | | 13C-PCB-19 | 100.00 | 7.18e+07 | 1.06 y | 24:15 | - | 0.55 |
| 189 | Tri-η | | 13C-PCB-32 | 100.00 | 1.08e+08 | 1.08 y | 27:09 | - | 0.83 |
| 190 | Tri-η | | 13C-PCB-28 | 100.00 | 1.00e+08 | 1.05 y | 29:05 | - | 0.79 |
| 191 | Tri-η | | 13C-PCB-37 | 100.00 | 1.01e+08 | 1.07 y | 32:57 | - | 0.80 |
| 192 | Tetrη | | 13C-PCB-54 | 100.00 | 9.33e+07 | 0.80 y | 27:59 | - | 0.86 |
| 193 | Tetrη | | 13C-PCB-52 | 100.00 | 7.77e+07 | 0.81 y | 31:30 | - | 0.72 |
| 194 | Tetrη | | 13C-PCB-47 | 100.00 | 8.03e+07 | 0.78 y | 32:00 | - | 0.74 |
| 195 | Tetrη | | 13C-PCB-70 | 100.00 | 1.04e+08 | 0.80 y | 35:31 | - | 0.96 |
| 196 | Tetrη | | 13C-PCB-80 | 100.00 | 1.05e+08 | 0.80 y | 35:55 | - | 0.96 |
| 197 | Tetrη | | 13C-PCB-81 | 100.00 | 8.95e+07 | 0.80 y | 39:02 | - | 0.83 |
| 198 | Tetrη | | 13C-PCB-77 | 100.00 | 9.58e+07 | 0.80 y | 39:37 | - | 0.88 |
| 199 | Pentη | | 13C-PCB-104 | 100.00 | 6.72e+07 | 1.63 y | 32:39 | - | 0.99 |
| 200 | Pentη | | 13C-PCB-95 | 100.00 | 5.03e+07 | 1.61 y | 35:49 | - | 0.74 |
| 201 | Pentη | | 13C-PCB-101 | 100.00 | 5.37e+07 | 1.61 y | 37:29 | - | 0.79 |
| 202 | Pentη | | 13C-PCB-97 | 100.00 | 4.74e+07 | 1.63 y | 38:47 | - | 0.70 |
| 203 | Pentη | | 13C-PCB-123 | 100.00 | 5.97e+07 | 1.63 y | 41:21 | - | 0.88 |
| 204 | Pentη | | 13C-PCB-118 | 100.00 | 6.28e+07 | 1.61 y | 41:32 | - | 0.92 |
| 205 | Pentη | | 13C-PCB-114 | 100.00 | 7.04e+07 | 1.59 y | 42:11 | - | 1.26 |
| 206 | Pentη | | 13C-PCB-105 | 100.00 | 7.09e+07 | 1.60 y | 43:03 | - | 1.26 |
| 207 | Pentη | | 13C-PCB-127 | 100.00 | 7.69e+07 | 1.57 y | 43:22 | - | 1.37 |
| 208 | Pentη | | 13C-PCB-126 | 100.00 | 6.51e+07 | 1.55 y | 45:17 | - | 1.16 |
| 209 | Hexaη | | 13C-PCB-155 | 100.00 | 5.81e+07 | 1.27 y | 37:02 | - | 0.86 |
| 210 | Hexaη | | 13C-PCB-153 | 100.00 | 6.40e+07 | 1.30 y | 43:12 | - | 1.14 |
| 211 | Hexaη | | 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 | Hexaη | | 13C-PCB-159 | 100.00 | 6.79e+07 | 1.28 y | 46:04 | - | 1.21 |
| 214 | Hexaη | | 13C-PCB-167 | 100.00 | 7.42e+07 | 1.28 y | 46:45 | - | 1.32 |
| 215 | Hexaη | | 13C-PCB-156 | 100.00 | 6.87e+07 | 1.28 y | 48:02 | - | 1.23 |
| 216 | Hexaη | | 13C-PCB-157 | 100.00 | 7.37e+07 | 1.28 y | 48:18 | - | 1.31 |
| 217 | Hexaη | | 13C-PCB-169 | 100.00 | 6.83e+07 | 1.27 y | 50:23 | - | 1.22 |
| 218 | Heptη | | 13C-PCB-188 | 100.00 | 5.45e+07 | 0.46 y | 42:50 | - | 0.97 |
| 219 | Heptη | | 13C-PCB-180 | 100.00 | 3.96e+07 | 0.47 y | 49:19 | - | 0.71 |
| 220 | Heptη | | 13C-PCB-170 | 100.00 | 3.06e+07 | 0.46 y | 50:44 | - | 0.55 |
| 221 | Heptη | | 13C-PCB-189 | 100.00 | 4.02e+07 | 0.46 y | 52:11 | - | 0.72 |

| | | | | | | | | |
|-----|-------|-------------|--------|----------|--------|-------|---|------|
| 222 | Octaη | 13C-PCB-202 | 100.00 | 4.83e+07 | 0.91 y | 48:15 | - | 0.86 |
| 223 | Octaη | 13C-PCB-194 | 100.00 | 4.22e+07 | 0.90 y | 53:39 | - | 0.82 |
| 224 | Nonaη | 13C-PCB-208 | 100.00 | 5.69e+07 | 0.78 y | 52:56 | - | 1.10 |
| 225 | Nonaη | 13C-PCB-206 | 100.00 | 3.28e+07 | 0.79 y | 55:19 | - | 0.63 |
| 226 | Decaη | 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-η | 13C-PCB-31 | 100.00 | 1.27e+08 | 1.06 y | 28:59 | - | 1.00 |
| 229 | Tetrη | 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 | Hexaη | 13C-PCB-128 | 100.00 | 5.60e+07 | 1.28 y | 46:20 | - | 1.00 |

| | | | | | | | | |
|-----|-------|-------------|--------|----------|--------|-------|---|------|
| 232 | Octaη | 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 η | Total Tri-PCB | 0.00 | - | - n | - | - | 1.38 |
| 173 | Tot η | Total Tetra-PCB | 0.00 | - | - n | - | - | 1.21 |
| 174 | Tot η | Total Penta-PCB | 0.00 | - | - n | - | - | 1.27 |
| 175 | Tot η | Total Penta-PCB | 0.00 | - | - n | - | - | 1.29 |
| 176 | Tot η | Total Hexa-PCB | 0.00 | - | - n | - | - | 0.90 |
| 177 | Tot η | Total Hexa-PCB | 0.00 | - | - n | - | - | 1.12 |
| 178 | Tot η | Total Hepta-PCB | 0.00 | - | - n | - | - | 1.31 |
| 179 | Tot η | Total Octa-PCB | 0.00 | - | - n | - | - | 0.94 |
| 180 | Tot η | Total Octa-PCB | 0.00 | - | - n | - | - | 1.29 |
| 181 | Tot η | Total Nona-PCB | 0.00 | - | - n | - | - | 0.98 |
| 182 | Tot η | Total Deca-PCB | 1.00 | 4.65e+05 | 1.13 y | 56:37 | - | 1.19 |
| 183 | Monoη | 13C-PCB-1 | 100.00 | 1.56e+08 | 3.23 y | 16:15 | - | 0.94 |
| 184 | Monoη | 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-η | 13C-PCB-19 | 100.00 | 9.18e+07 | 1.06 y | 24:16 | - | 0.55 |
| 189 | Tri-η | 13C-PCB-32 | 100.00 | 1.37e+08 | 1.08 y | 27:10 | - | 0.82 |
| 190 | Tri-η | 13C-PCB-28 | 100.00 | 1.40e+08 | 1.05 y | 29:07 | - | 0.91 |
| 191 | Tri-η | 13C-PCB-37 | 100.00 | 1.28e+08 | 1.06 y | 32:59 | - | 0.83 |
| 192 | Tetrη | 13C-PCB-54 | 100.00 | 1.18e+08 | 0.81 y | 28:00 | - | 0.89 |
| 193 | Tetrη | 13C-PCB-52 | 100.00 | 9.78e+07 | 0.79 y | 31:30 | - | 0.74 |
| 194 | Tetrη | 13C-PCB-47 | 100.00 | 1.03e+08 | 0.79 y | 32:01 | - | 0.78 |
| 195 | Tetrη | 13C-PCB-70 | 100.00 | 1.28e+08 | 0.80 y | 35:31 | - | 0.97 |
| 196 | Tetrη | 13C-PCB-80 | 100.00 | 1.32e+08 | 0.81 y | 35:56 | - | 1.00 |
| 197 | Tetrη | 13C-PCB-81 | 100.00 | 1.09e+08 | 0.81 y | 39:03 | - | 0.82 |
| 198 | Tetrη | 13C-PCB-77 | 100.00 | 1.16e+08 | 0.80 y | 39:38 | - | 0.87 |
| 199 | Pentη | 13C-PCB-104 | 100.00 | 8.57e+07 | 1.62 y | 32:41 | - | 1.06 |
| 200 | Pentη | 13C-PCB-95 | 100.00 | 6.25e+07 | 1.56 y | 35:50 | - | 0.78 |
| 201 | Pentη | 13C-PCB-101 | 100.00 | 6.52e+07 | 1.58 y | 37:30 | - | 0.81 |
| 202 | Pentη | 13C-PCB-97 | 100.00 | 5.55e+07 | 1.65 y | 38:48 | - | 0.69 |
| 203 | Pentη | 13C-PCB-123 | 100.00 | 7.42e+07 | 1.57 y | 41:21 | - | 0.92 |
| 204 | Pentη | 13C-PCB-118 | 100.00 | 7.69e+07 | 1.66 y | 41:33 | - | 0.95 |
| 205 | Pentη | 13C-PCB-114 | 100.00 | 8.65e+07 | 1.61 y | 42:12 | - | 1.20 |
| 206 | Pentη | 13C-PCB-105 | 100.00 | 8.97e+07 | 1.59 y | 43:03 | - | 1.24 |
| 207 | Pentη | 13C-PCB-127 | 100.00 | 9.70e+07 | 1.57 y | 43:23 | - | 1.34 |
| 208 | Pentη | 13C-PCB-126 | 100.00 | 8.43e+07 | 1.60 y | 45:18 | - | 1.17 |
| 209 | Hexaη | 13C-PCB-155 | 100.00 | 7.04e+07 | 1.28 y | 37:03 | - | 0.87 |
| 210 | Hexaη | 13C-PCB-153 | 100.00 | 8.00e+07 | 1.28 y | 43:13 | - | 1.11 |
| 211 | Hexaη | 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 | Hexaη | 13C-PCB-159 | 100.00 | 8.60e+07 | 1.28 y | 46:05 | - | 1.19 |
| 214 | Hexaη | 13C-PCB-167 | 100.00 | 9.61e+07 | 1.31 y | 46:45 | - | 1.33 |
| 215 | Hexaη | 13C-PCB-156 | 100.00 | 9.01e+07 | 1.28 y | 48:03 | - | 1.25 |
| 216 | Hexaη | 13C-PCB-157 | 100.00 | 9.47e+07 | 1.27 y | 48:19 | - | 1.31 |
| 217 | Hexaη | 13C-PCB-169 | 100.00 | 8.76e+07 | 1.27 y | 50:24 | - | 1.21 |
| 218 | Heptη | 13C-PCB-188 | 100.00 | 6.71e+07 | 0.47 y | 42:51 | - | 0.93 |
| 219 | Heptη | 13C-PCB-180 | 100.00 | 4.84e+07 | 0.47 y | 49:19 | - | 0.67 |
| 220 | Heptη | 13C-PCB-170 | 100.00 | 3.88e+07 | 0.48 y | 50:45 | - | 0.54 |
| 221 | Heptη | 13C-PCB-189 | 100.00 | 5.08e+07 | 0.46 y | 52:10 | - | 0.70 |
| 222 | Octaη | 13C-PCB-202 | 100.00 | 5.96e+07 | 0.91 y | 48:16 | - | 0.83 |

| | | | | | | | | |
|-----|--------|-------------|--------|----------|--------|-------|---|------|
| 223 | Octaη | 13C-PCB-194 | 100.00 | 5.30e+07 | 0.91 y | 53:40 | - | 0.82 |
| 224 | Nonaη | 13C-PCB-208 | 100.00 | 7.41e+07 | 0.77 y | 52:56 | - | 1.14 |
| 225 | Nonaη | 13C-PCB-206 | 100.00 | 4.24e+07 | 0.79 y | 55:20 | - | 0.65 |
| 226 | Decaη | 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-η | 13C-PCB-31 | 100.00 | 1.54e+08 | 1.06 y | 29:00 | - | 1.00 |
| 229 | Tetraη | 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 | Hexaη | 13C-PCB-128 | 100.00 | 7.22e+07 | 1.30 y | 46:21 | - | 1.00 |
| 232 | Octaη | 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: PCBVGS-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 η | Total Mono-PCB | 0.00 | - | - n | - | - | 1.21 |
| 170 | Tot η | Total Di-PCB | 0.00 | - | - n | - | - | 1.21 |
| 171 | Tot η | Total Tri-PCB | 0.00 | - | - n | - | - | 1.15 |

| | | | | | | | | |
|-----|-------|-----------------|--------|----------|--------|-------|---|------|
| 172 | Tot η | Total Tri-PCB | 0.00 | - | - n | - | - | 1.36 |
| 173 | Tot η | Total Tetra-PCB | 0.00 | - | - n | - | - | 1.17 |
| 174 | Tot η | Total Penta-PCB | 0.00 | - | - n | - | - | 1.21 |
| 175 | Tot η | Total Penta-PCB | 0.00 | - | - n | - | - | 1.26 |
| 176 | Tot η | Total Hexa-PCB | 0.00 | - | - n | - | - | 0.89 |
| 177 | Tot η | Total Hexa-PCB | 0.00 | - | - n | - | - | 1.08 |
| 178 | Tot η | Total Hepta-PCB | 0.00 | - | - n | - | - | 1.27 |
| 179 | Tot η | Total Octa-PCB | 0.00 | - | - n | - | - | 0.89 |
| 180 | Tot η | Total Octa-PCB | 0.00 | - | - n | - | - | 1.26 |
| 181 | Tot η | Total Nona-PCB | 0.00 | - | - n | - | - | 0.94 |
| 182 | Tot η | Total Deca-PCB | 2.50 | 2.82e+06 | 1.17 y | 56:37 | - | 1.21 |
| 183 | Monoη | 13C-PCB-1 | 100.00 | 3.46e+08 | 3.25 y | 16:14 | - | 0.91 |
| 184 | Monoη | 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-η | 13C-PCB-19 | 100.00 | 2.07e+08 | 1.06 y | 24:16 | - | 0.55 |
| 189 | Tri-η | 13C-PCB-32 | 100.00 | 3.14e+08 | 1.08 y | 27:10 | - | 0.83 |
| 190 | Tri-η | 13C-PCB-28 | 100.00 | 3.07e+08 | 1.06 y | 29:07 | - | 0.83 |
| 191 | Tri-η | 13C-PCB-37 | 100.00 | 2.95e+08 | 1.07 y | 32:58 | - | 0.80 |
| 192 | Tetrη | 13C-PCB-54 | 100.00 | 2.71e+08 | 0.81 y | 28:00 | - | 0.91 |
| 193 | Tetrη | 13C-PCB-52 | 100.00 | 2.25e+08 | 0.80 y | 31:31 | - | 0.75 |
| 194 | Tetrη | 13C-PCB-47 | 100.00 | 2.33e+08 | 0.79 y | 32:01 | - | 0.78 |
| 195 | Tetrη | 13C-PCB-70 | 100.00 | 2.87e+08 | 0.80 y | 35:32 | - | 0.96 |
| 196 | Tetrη | 13C-PCB-80 | 100.00 | 2.96e+08 | 0.81 y | 35:56 | - | 0.99 |
| 197 | Tetrη | 13C-PCB-81 | 100.00 | 2.52e+08 | 0.80 y | 39:03 | - | 0.84 |
| 198 | Tetrη | 13C-PCB-77 | 100.00 | 2.67e+08 | 0.80 y | 39:38 | - | 0.90 |
| 199 | Pentη | 13C-PCB-104 | 100.00 | 1.94e+08 | 1.60 y | 32:40 | - | 1.07 |
| 200 | Pentη | 13C-PCB-95 | 100.00 | 1.37e+08 | 1.60 y | 35:50 | - | 0.75 |
| 201 | Pentη | 13C-PCB-101 | 100.00 | 1.44e+08 | 1.61 y | 37:30 | - | 0.79 |
| 202 | Pentη | 13C-PCB-97 | 100.00 | 1.27e+08 | 1.61 y | 38:48 | - | 0.70 |
| 203 | Pentη | 13C-PCB-123 | 100.00 | 1.77e+08 | 1.58 y | 41:22 | - | 0.98 |
| 204 | Pentη | 13C-PCB-118 | 100.00 | 1.80e+08 | 1.61 y | 41:33 | - | 0.99 |
| 205 | Pentη | 13C-PCB-114 | 100.00 | 2.01e+08 | 1.59 y | 42:12 | - | 1.21 |
| 206 | Pentη | 13C-PCB-105 | 100.00 | 2.08e+08 | 1.59 y | 43:04 | - | 1.25 |
| 207 | Pentη | 13C-PCB-127 | 100.00 | 2.30e+08 | 1.60 y | 43:23 | - | 1.38 |
| 208 | Pentη | 13C-PCB-126 | 100.00 | 2.00e+08 | 1.58 y | 45:18 | - | 1.20 |
| 209 | Hexaη | 13C-PCB-155 | 100.00 | 1.53e+08 | 1.28 y | 37:03 | - | 0.84 |
| 210 | Hexaη | 13C-PCB-153 | 100.00 | 1.87e+08 | 1.28 y | 43:13 | - | 1.13 |
| 211 | Hexaη | 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 | Hexaη | 13C-PCB-159 | 100.00 | 2.03e+08 | 1.26 y | 46:04 | - | 1.22 |
| 214 | Hexaη | 13C-PCB-167 | 100.00 | 2.26e+08 | 1.29 y | 46:46 | - | 1.36 |
| 215 | Hexaη | 13C-PCB-156 | 100.00 | 2.13e+08 | 1.27 y | 48:03 | - | 1.28 |
| 216 | Hexaη | 13C-PCB-157 | 100.00 | 2.22e+08 | 1.29 y | 48:20 | - | 1.34 |
| 217 | Hexaη | 13C-PCB-169 | 100.00 | 2.08e+08 | 1.29 y | 50:23 | - | 1.25 |
| 218 | Heptη | 13C-PCB-188 | 100.00 | 1.54e+08 | 0.47 y | 42:51 | - | 0.93 |
| 219 | Heptη | 13C-PCB-180 | 100.00 | 1.11e+08 | 0.47 y | 49:20 | - | 0.67 |
| 220 | Heptη | 13C-PCB-170 | 100.00 | 8.90e+07 | 0.47 y | 50:44 | - | 0.54 |
| 221 | Heptη | 13C-PCB-189 | 100.00 | 1.21e+08 | 0.46 y | 52:11 | - | 0.73 |
| 222 | Octaη | 13C-PCB-202 | 100.00 | 1.38e+08 | 0.91 y | 48:16 | - | 0.83 |

| | | | | | | | | |
|-----|-------|-------------|--------|----------|--------|-------|---|------|
| 223 | Octaη | 13C-PCB-194 | 100.00 | 1.24e+08 | 0.92 y | 53:39 | - | 0.82 |
| 224 | Nonaη | 13C-PCB-208 | 100.00 | 1.70e+08 | 0.78 y | 52:56 | - | 1.13 |
| 225 | Nonaη | 13C-PCB-206 | 100.00 | 1.00e+08 | 0.81 y | 55:19 | - | 0.66 |
| 226 | Decaη | 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-η | 13C-PCB-31 | 100.00 | 3.70e+08 | 1.06 y | 29:01 | - | 1.00 |
| 229 | Tetrη | 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 | Hexaη | 13C-PCB-128 | 100.00 | 1.66e+08 | 1.28 y | 46:22 | - | 1.00 |
| 232 | Octaη | 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 η | Total Mono-PCB | 0.00 | - | - n | - | - | 1.27 |
| 170 | Tot η | Total Di-PCB | 0.00 | - | - n | - | - | 1.25 |
| 171 | Tot η | Total Tri-PCB | 0.00 | - | - n | - | - | 1.18 |

| | | | | | | | | | | |
|-----|-------|---|-----------------|--------|----------|------|---|-------|---|------|
| 172 | Tot | η | Total Tri-PCB | 0.00 | - | - | n | - | - | 1.39 |
| 173 | Tot | η | Total Tetra-PCB | 0.00 | - | - | n | - | - | 1.21 |
| 174 | Tot | η | Total Penta-PCB | 0.00 | - | - | n | - | - | 1.24 |
| 175 | Tot | η | Total Penta-PCB | 0.00 | - | - | n | - | - | 1.29 |
| 176 | Tot | η | Total Hexa-PCB | 0.00 | - | - | n | - | - | 0.96 |
| 177 | Tot | η | Total Hexa-PCB | 0.00 | - | - | n | - | - | 1.10 |
| 178 | Tot | η | Total Hepta-PCB | 0.00 | - | - | n | - | - | 1.30 |
| 179 | Tot | η | Total Octa-PCB | 0.00 | - | - | n | - | - | 0.95 |
| 180 | Tot | η | Total Octa-PCB | 0.00 | - | - | n | - | - | 1.30 |
| 181 | Tot | η | Total Nona-PCB | 0.00 | - | - | n | - | - | 0.96 |
| 182 | Tot | η | Total Deca-PCB | 50.00 | 2.28e+07 | 1.19 | y | 56:38 | - | 1.23 |
| 183 | Mono | η | 13C-PCB-1 | 100.00 | 1.19e+08 | 3.24 | y | 16:14 | - | 0.88 |
| 184 | Mono | η | 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-η | | 13C-PCB-19 | 100.00 | 7.23e+07 | 1.06 | y | 24:16 | - | 0.53 |
| 189 | Tri-η | | 13C-PCB-32 | 100.00 | 1.09e+08 | 1.07 | y | 27:10 | - | 0.81 |
| 190 | Tri-η | | 13C-PCB-28 | 100.00 | 1.07e+08 | 1.05 | y | 29:07 | - | 0.85 |
| 191 | Tri-η | | 13C-PCB-37 | 100.00 | 1.00e+08 | 1.07 | y | 32:59 | - | 0.80 |
| 192 | Tetrη | | 13C-PCB-54 | 100.00 | 9.29e+07 | 0.81 | y | 28:00 | - | 0.84 |
| 193 | Tetrη | | 13C-PCB-52 | 100.00 | 7.70e+07 | 0.79 | y | 31:30 | - | 0.70 |
| 194 | Tetrη | | 13C-PCB-47 | 100.00 | 8.12e+07 | 0.80 | y | 32:01 | - | 0.73 |
| 195 | Tetrη | | 13C-PCB-70 | 100.00 | 1.02e+08 | 0.79 | y | 35:31 | - | 0.93 |
| 196 | Tetrη | | 13C-PCB-80 | 100.00 | 1.05e+08 | 0.80 | y | 35:56 | - | 0.95 |
| 197 | Tetrη | | 13C-PCB-81 | 100.00 | 9.11e+07 | 0.80 | y | 39:03 | - | 0.82 |
| 198 | Tetrη | | 13C-PCB-77 | 100.00 | 9.78e+07 | 0.81 | y | 39:38 | - | 0.88 |
| 199 | Pentη | | 13C-PCB-104 | 100.00 | 6.97e+07 | 1.58 | y | 32:40 | - | 0.98 |
| 200 | Pentη | | 13C-PCB-95 | 100.00 | 5.18e+07 | 1.63 | y | 35:49 | - | 0.73 |
| 201 | Pentη | | 13C-PCB-101 | 100.00 | 5.42e+07 | 1.60 | y | 37:30 | - | 0.77 |
| 202 | Pentη | | 13C-PCB-97 | 100.00 | 4.87e+07 | 1.60 | y | 38:48 | - | 0.69 |
| 203 | Pentη | | 13C-PCB-123 | 100.00 | 7.09e+07 | 1.58 | y | 41:21 | - | 1.00 |
| 204 | Pentη | | 13C-PCB-118 | 100.00 | 7.31e+07 | 1.59 | y | 41:32 | - | 1.03 |
| 205 | Pentη | | 13C-PCB-114 | 100.00 | 7.90e+07 | 1.61 | y | 42:12 | - | 1.18 |
| 206 | Pentη | | 13C-PCB-105 | 100.00 | 8.02e+07 | 1.61 | y | 43:03 | - | 1.20 |
| 207 | Pentη | | 13C-PCB-127 | 100.00 | 8.65e+07 | 1.59 | y | 43:23 | - | 1.29 |
| 208 | Pentη | | 13C-PCB-126 | 100.00 | 7.48e+07 | 1.61 | y | 45:18 | - | 1.12 |
| 209 | Hexaη | | 13C-PCB-155 | 100.00 | 5.86e+07 | 1.27 | y | 37:02 | - | 0.83 |
| 210 | Hexaη | | 13C-PCB-153 | 100.00 | 7.35e+07 | 1.25 | y | 43:13 | - | 1.10 |
| 211 | Hexaη | | 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 | Hexaη | | 13C-PCB-159 | 100.00 | 7.82e+07 | 1.30 | y | 46:05 | - | 1.17 |
| 214 | Hexaη | | 13C-PCB-167 | 100.00 | 8.59e+07 | 1.26 | y | 46:45 | - | 1.29 |
| 215 | Hexaη | | 13C-PCB-156 | 100.00 | 8.11e+07 | 1.27 | y | 48:03 | - | 1.21 |
| 216 | Hexaη | | 13C-PCB-157 | 100.00 | 8.59e+07 | 1.29 | y | 48:19 | - | 1.28 |
| 217 | Hexaη | | 13C-PCB-169 | 100.00 | 7.93e+07 | 1.27 | y | 50:24 | - | 1.19 |
| 218 | Heptη | | 13C-PCB-188 | 100.00 | 6.19e+07 | 0.46 | y | 42:51 | - | 0.93 |
| 219 | Heptη | | 13C-PCB-180 | 100.00 | 4.49e+07 | 0.47 | y | 49:19 | - | 0.67 |
| 220 | Heptη | | 13C-PCB-170 | 100.00 | 3.58e+07 | 0.45 | y | 50:45 | - | 0.53 |
| 221 | Heptη | | 13C-PCB-189 | 100.00 | 4.91e+07 | 0.46 | y | 52:11 | - | 0.73 |
| 222 | Octaη | | 13C-PCB-202 | 100.00 | 5.62e+07 | 0.92 | y | 48:16 | - | 0.84 |

| | | | | | | | | |
|-----|--------|-------------|--------|----------|--------|-------|---|------|
| 223 | Octaη | 13C-PCB-194 | 100.00 | 4.69e+07 | 0.91 y | 53:40 | - | 0.80 |
| 224 | Nonaη | 13C-PCB-208 | 100.00 | 6.66e+07 | 0.78 y | 52:56 | - | 1.14 |
| 225 | Nonaη | 13C-PCB-206 | 100.00 | 4.07e+07 | 0.77 y | 55:20 | - | 0.70 |
| 226 | Decaη | 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-η | 13C-PCB-31 | 100.00 | 1.25e+08 | 1.06 y | 29:00 | - | 1.00 |
| 229 | Tetraη | 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 | Hexaη | 13C-PCB-128 | 100.00 | 6.69e+07 | 1.26 y | 46:21 | - | 1.00 |
| 232 | Octaη | 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 |

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|----|-------|-----------------|---------|----------|--------|-------|---|------|
| 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 |

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|-----|------|-------------|--------|----------|--------|-------|---|------|
| 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 |

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|-----|-------|-----------------|---------|----------|--------|-------|---|------|
| 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 |

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|-----|-------|----------------|--------|----------|--------|-------|---|------|
| 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 η | Total Mono-PCB | 0.00 | - | - n | - | - | 1.02 |
| 170 | Tot η | Total Di-PCB | 0.00 | - | - n | - | - | 1.03 |
| 171 | Tot η | Total Tri-PCB | 0.00 | - | - n | - | - | 0.96 |

| | | | | | | | | | |
|-----|-------|---|-----------------|--------|----------|--------|-------|---|------|
| 172 | Tot | η | Total Tri-PCB | 0.00 | - | - n | - | - | 1.11 |
| 173 | Tot | η | Total Tetra-PCB | 0.00 | - | - n | - | - | 0.99 |
| 174 | Tot | η | Total Penta-PCB | 0.00 | - | - n | - | - | 1.03 |
| 175 | Tot | η | Total Penta-PCB | 0.00 | - | - n | - | - | 1.05 |
| 176 | Tot | η | Total Hexa-PCB | 0.00 | - | - n | - | - | 0.78 |
| 177 | Tot | η | Total Hexa-PCB | 0.00 | - | - n | - | - | 0.91 |
| 178 | Tot | η | Total Hepta-PCB | 0.00 | - | - n | - | - | 1.05 |
| 179 | Tot | η | Total Octa-PCB | 0.00 | - | - n | - | - | 0.77 |
| 180 | Tot | η | Total Octa-PCB | 0.00 | - | - n | - | - | 1.08 |
| 181 | Tot | η | Total Nona-PCB | 0.00 | - | - n | - | - | 0.79 |
| 182 | Tot | η | Total Deca-PCB | 400.00 | 1.83e+08 | 1.19 y | 56:38 | - | 0.99 |
| 183 | Mono | η | 13C-PCB-1 | 100.00 | 1.66e+08 | 3.23 y | 16:14 | - | 0.88 |
| 184 | Mono | η | 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-η | | 13C-PCB-19 | 100.00 | 9.71e+07 | 1.07 y | 24:16 | - | 0.52 |
| 189 | Tri-η | | 13C-PCB-32 | 100.00 | 1.52e+08 | 1.07 y | 27:10 | - | 0.81 |
| 190 | Tri-η | | 13C-PCB-28 | 100.00 | 1.54e+08 | 1.06 y | 29:06 | - | 0.96 |
| 191 | Tri-η | | 13C-PCB-37 | 100.00 | 1.41e+08 | 1.06 y | 32:58 | - | 0.87 |
| 192 | Tetra | η | 13C-PCB-54 | 100.00 | 1.29e+08 | 0.81 y | 27:60 | - | 0.83 |
| 193 | Tetra | η | 13C-PCB-52 | 100.00 | 1.07e+08 | 0.80 y | 31:31 | - | 0.68 |
| 194 | Tetra | η | 13C-PCB-47 | 100.00 | 1.15e+08 | 0.80 y | 32:00 | - | 0.73 |
| 195 | Tetra | η | 13C-PCB-70 | 100.00 | 1.48e+08 | 0.80 y | 35:31 | - | 0.94 |
| 196 | Tetra | η | 13C-PCB-80 | 100.00 | 1.49e+08 | 0.80 y | 35:56 | - | 0.95 |
| 197 | Tetra | η | 13C-PCB-81 | 100.00 | 1.35e+08 | 0.82 y | 39:03 | - | 0.86 |
| 198 | Tetra | η | 13C-PCB-77 | 100.00 | 1.43e+08 | 0.81 y | 39:38 | - | 0.91 |
| 199 | Pent | η | 13C-PCB-104 | 100.00 | 9.47e+07 | 1.61 y | 32:40 | - | 0.96 |
| 200 | Pent | η | 13C-PCB-95 | 100.00 | 7.32e+07 | 1.57 y | 35:49 | - | 0.74 |
| 201 | Pent | η | 13C-PCB-101 | 100.00 | 7.72e+07 | 1.62 y | 37:30 | - | 0.78 |
| 202 | Pent | η | 13C-PCB-97 | 100.00 | 6.76e+07 | 1.59 y | 38:48 | - | 0.69 |
| 203 | Pent | η | 13C-PCB-123 | 100.00 | 9.35e+07 | 1.62 y | 41:21 | - | 0.95 |
| 204 | Pent | η | 13C-PCB-118 | 100.00 | 9.95e+07 | 1.59 y | 41:32 | - | 1.01 |
| 205 | Pent | η | 13C-PCB-114 | 100.00 | 1.08e+08 | 1.58 y | 42:12 | - | 1.25 |
| 206 | Pent | η | 13C-PCB-105 | 100.00 | 1.12e+08 | 1.60 y | 43:04 | - | 1.29 |
| 207 | Pent | η | 13C-PCB-127 | 100.00 | 1.18e+08 | 1.58 y | 43:23 | - | 1.36 |
| 208 | Pent | η | 13C-PCB-126 | 100.00 | 1.03e+08 | 1.56 y | 45:18 | - | 1.19 |
| 209 | Hexa | η | 13C-PCB-155 | 100.00 | 7.98e+07 | 1.30 y | 37:03 | - | 0.81 |
| 210 | Hexa | η | 13C-PCB-153 | 100.00 | 9.94e+07 | 1.27 y | 43:12 | - | 1.15 |
| 211 | Hexa | η | 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 | η | 13C-PCB-159 | 100.00 | 1.06e+08 | 1.27 y | 46:04 | - | 1.22 |
| 214 | Hexa | η | 13C-PCB-167 | 100.00 | 1.14e+08 | 1.27 y | 46:45 | - | 1.32 |
| 215 | Hexa | η | 13C-PCB-156 | 100.00 | 1.09e+08 | 1.27 y | 48:03 | - | 1.26 |
| 216 | Hexa | η | 13C-PCB-157 | 100.00 | 1.15e+08 | 1.31 y | 48:19 | - | 1.33 |
| 217 | Hexa | η | 13C-PCB-169 | 100.00 | 1.06e+08 | 1.26 y | 50:23 | - | 1.22 |
| 218 | Hept | η | 13C-PCB-188 | 100.00 | 8.49e+07 | 0.47 y | 42:50 | - | 0.98 |
| 219 | Hept | η | 13C-PCB-180 | 100.00 | 5.82e+07 | 0.47 y | 49:20 | - | 0.67 |
| 220 | Hept | η | 13C-PCB-170 | 100.00 | 4.66e+07 | 0.46 y | 50:44 | - | 0.54 |
| 221 | Hept | η | 13C-PCB-189 | 100.00 | 6.18e+07 | 0.46 y | 52:11 | - | 0.71 |
| 222 | Octa | η | 13C-PCB-202 | 100.00 | 7.25e+07 | 0.90 y | 48:16 | - | 0.84 |

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|-----|-------|-------------|--------|----------|--------|-------|---|------|
| 223 | Octaη | 13C-PCB-194 | 100.00 | 6.13e+07 | 0.91 y | 53:40 | - | 0.81 |
| 224 | Nonaη | 13C-PCB-208 | 100.00 | 8.58e+07 | 0.78 y | 52:56 | - | 1.14 |
| 225 | Nonaη | 13C-PCB-206 | 100.00 | 4.92e+07 | 0.81 y | 55:20 | - | 0.65 |
| 226 | Decaη | 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-η | 13C-PCB-31 | 100.00 | 1.61e+08 | 1.07 y | 28:60 | - | 1.00 |
| 229 | Tetrη | 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 | Hexaη | 13C-PCB-128 | 100.00 | 8.68e+07 | 1.28 y | 46:21 | - | 1.00 |
| 232 | Octaη | 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 | η | Total Tri-PCB | 0.00 | - | - n | - | - | 1.26 |
| 173 | Tot | η | Total Tetra-PCB | 0.00 | - | - n | - | - | 1.15 |
| 174 | Tot | η | Total Penta-PCB | 0.00 | - | - n | - | - | 1.21 |
| 175 | Tot | η | Total Penta-PCB | 0.00 | - | - n | - | - | 1.24 |
| 176 | Tot | η | Total Hexa-PCB | 0.00 | - | - n | - | - | 0.93 |
| 177 | Tot | η | Total Hexa-PCB | 0.00 | - | - n | - | - | 1.07 |
| 178 | Tot | η | Total Hepta-PCB | 0.00 | - | - n | - | - | 1.26 |
| 179 | Tot | η | Total Octa-PCB | 0.00 | - | - n | - | - | 0.91 |
| 180 | Tot | η | Total Octa-PCB | 0.00 | - | - n | - | - | 1.24 |
| 181 | Tot | η | Total Nona-PCB | 0.00 | - | - n | - | - | 0.93 |
| 182 | Tot | η | Total Deca-PCB | 750.00 | 4.91e+08 | 1.19 y | 56:35 | - | 1.16 |
| 183 | Mono | η | 13C-PCB-1 | 100.00 | 1.50e+08 | 3.31 y | 16:14 | - | 0.76 |
| 184 | Mono | η | 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-η | | 13C-PCB-19 | 100.00 | 9.83e+07 | 1.04 y | 24:16 | - | 0.50 |
| 189 | Tri-η | | 13C-PCB-32 | 100.00 | 1.56e+08 | 1.07 y | 27:10 | - | 0.79 |
| 190 | Tri-η | | 13C-PCB-28 | 100.00 | 1.66e+08 | 1.06 y | 29:07 | - | 0.98 |
| 191 | Tri-η | | 13C-PCB-37 | 100.00 | 1.50e+08 | 1.08 y | 32:58 | - | 0.89 |
| 192 | Tetra | η | 13C-PCB-54 | 100.00 | 1.33e+08 | 0.80 y | 27:59 | - | 0.77 |
| 193 | Tetra | η | 13C-PCB-52 | 100.00 | 1.13e+08 | 0.80 y | 31:31 | - | 0.66 |
| 194 | Tetra | η | 13C-PCB-47 | 100.00 | 1.19e+08 | 0.80 y | 32:01 | - | 0.70 |
| 195 | Tetra | η | 13C-PCB-70 | 100.00 | 1.56e+08 | 0.81 y | 35:31 | - | 0.91 |
| 196 | Tetra | η | 13C-PCB-80 | 100.00 | 1.58e+08 | 0.80 y | 35:56 | - | 0.92 |
| 197 | Tetra | η | 13C-PCB-81 | 100.00 | 1.47e+08 | 0.81 y | 39:03 | - | 0.86 |
| 198 | Tetra | η | 13C-PCB-77 | 100.00 | 1.56e+08 | 0.81 y | 39:38 | - | 0.91 |
| 199 | Pent | η | 13C-PCB-104 | 100.00 | 9.67e+07 | 1.59 y | 32:40 | - | 0.90 |
| 200 | Pent | η | 13C-PCB-95 | 100.00 | 7.69e+07 | 1.59 y | 35:49 | - | 0.72 |
| 201 | Pent | η | 13C-PCB-101 | 100.00 | 8.24e+07 | 1.61 y | 37:30 | - | 0.77 |
| 202 | Pent | η | 13C-PCB-97 | 100.00 | 7.23e+07 | 1.63 y | 38:48 | - | 0.67 |
| 203 | Pent | η | 13C-PCB-123 | 100.00 | 1.04e+08 | 1.60 y | 41:22 | - | 0.97 |
| 204 | Pent | η | 13C-PCB-118 | 100.00 | 1.07e+08 | 1.61 y | 41:33 | - | 0.99 |
| 205 | Pent | η | 13C-PCB-114 | 100.00 | 1.19e+08 | 1.61 y | 42:12 | - | 1.15 |
| 206 | Pent | η | 13C-PCB-105 | 100.00 | 1.23e+08 | 1.59 y | 43:04 | - | 1.19 |
| 207 | Pent | η | 13C-PCB-127 | 100.00 | 1.34e+08 | 1.58 y | 43:23 | - | 1.30 |
| 208 | Pent | η | 13C-PCB-126 | 100.00 | 1.17e+08 | 1.57 y | 45:18 | - | 1.14 |
| 209 | Hexa | η | 13C-PCB-155 | 100.00 | 8.39e+07 | 1.28 y | 37:03 | - | 0.78 |
| 210 | Hexa | η | 13C-PCB-153 | 100.00 | 1.09e+08 | 1.28 y | 43:13 | - | 1.06 |
| 211 | Hexa | η | 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 | η | 13C-PCB-159 | 100.00 | 1.22e+08 | 1.26 y | 46:04 | - | 1.19 |
| 214 | Hexa | η | 13C-PCB-167 | 100.00 | 1.35e+08 | 1.27 y | 46:45 | - | 1.31 |
| 215 | Hexa | η | 13C-PCB-156 | 100.00 | 1.28e+08 | 1.27 y | 48:03 | - | 1.24 |
| 216 | Hexa | η | 13C-PCB-157 | 100.00 | 1.33e+08 | 1.28 y | 48:19 | - | 1.29 |
| 217 | Hexa | η | 13C-PCB-169 | 100.00 | 1.24e+08 | 1.28 y | 50:23 | - | 1.20 |
| 218 | Hept | η | 13C-PCB-188 | 100.00 | 9.09e+07 | 0.46 y | 42:51 | - | 0.88 |
| 219 | Hept | η | 13C-PCB-180 | 100.00 | 6.73e+07 | 0.47 y | 49:20 | - | 0.65 |
| 220 | Hept | η | 13C-PCB-170 | 100.00 | 5.38e+07 | 0.46 y | 50:44 | - | 0.52 |
| 221 | Hept | η | 13C-PCB-189 | 100.00 | 7.24e+07 | 0.47 y | 52:11 | - | 0.70 |
| 222 | Octa | η | 13C-PCB-202 | 100.00 | 8.28e+07 | 0.92 y | 48:16 | - | 0.80 |

| | | | | | | | | |
|-----|--------|-------------|--------|----------|--------|-------|---|------|
| 223 | Octaη | 13C-PCB-194 | 100.00 | 7.14e+07 | 0.92 y | 53:39 | - | 0.79 |
| 224 | Nonaη | 13C-PCB-208 | 100.00 | 9.82e+07 | 0.76 y | 52:56 | - | 1.09 |
| 225 | Nonaη | 13C-PCB-206 | 100.00 | 5.84e+07 | 0.80 y | 55:19 | - | 0.65 |
| 226 | Decaη | 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-η | 13C-PCB-31 | 100.00 | 1.69e+08 | 1.06 y | 28:60 | - | 1.00 |
| 229 | Tetraη | 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 | Hexaη | 13C-PCB-128 | 100.00 | 1.03e+08 | 1.28 y | 46:21 | - | 1.00 |
| 232 | Octaη | 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 |

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. CONC. FOUND | CONC. RANGE (ng/mL) | ANALYTES | ION ABUND. RATIO | QC LIMITS | PASS | CONC. CONC. FOUND | CONC. RANGE (ng/mL) |
|--------------|------------------------|--------------|------|-------------------------|---------------------------|-----------------|------------------------|--------------|------|-------------------------|---------------------------|
| PCB-1 | 2.96 | 2.66-3.60 | y | 52.3 | 37.5-62.5 | PCB-52/69 | 0.77 | 0.65-0.89 | y | 105.4 | 75.0-125 |
| PCB-2 | 2.98 | 2.66-3.60 | y | 52.3 | 37.5-62.5 | PCB-73 | 0.77 | 0.65-0.89 | y | 52.2 | 37.5-62.5 |
| PCB-3 | 2.98 | 2.66-3.60 | y | 51.7 | 37.5-62.5 | PCB-43/49 | 0.77 | 0.65-0.89 | y | 101.6 | 75.0-125 |
| PCB-4/10 | 1.64 | 1.33-1.79 | y | 206.7 | 150-250 | PCB-47 | 0.76 | 0.65-0.89 | y | 53.7 | 37.5-62.5 |
| PCB-7/9 | 1.64 | 1.33-1.79 | y | 204.6 | 150-250 | PCB-48/75 | 0.77 | 0.65-0.89 | y | 99.8 | 75.0-125 |
| PCB-6 | 1.64 | 1.33-1.79 | y | 99.9 | 75.0-125 | PCB-65 | 0.77 | 0.65-0.89 | y | 49.4 | 37.5-62.5 |
| PCB-5/8 | 1.64 | 1.33-1.79 | y | 206.9 | 150-250 | PCB-62 | 0.77 | 0.65-0.89 | y | 53.4 | 37.5-62.5 |
| PCB-14 | 1.65 | 1.33-1.79 | y | 102.3 | 75.0-125 | PCB-44 | 0.78 | 0.65-0.89 | y | 51.3 | 37.5-62.5 |
| PCB-11 | 1.66 | 1.33-1.79 | y | 101.6 | 75.0-125 | PCB-42/59 | 0.77 | 0.65-0.89 | y | 103.4 | 75.0-125 |
| PCB-12/13 | 1.63 | 1.33-1.79 | y | 205.7 | 150-250 | PCB-41/64/71/72 | 0.78 | 0.65-0.89 | y | 205.8 | 150-250 |
| PCB-15 | 1.66 | 1.33-1.79 | y | 101.1 | 75.0-125 | PCB-68 | 0.78 | 0.65-0.89 | y | 50.9 | 37.5-62.5 |
| PCB-19 | 1.05 | 0.88-1.20 | y | 49.4 | 37.5-62.5 | PCB-40 | 0.77 | 0.65-0.89 | y | 50.7 | 37.5-62.5 |
| PCB-30 | 1.06 | 0.88-1.20 | y | 51.2 | 37.5-62.5 | PCB-57 | 0.77 | 0.65-0.89 | y | 51.8 | 37.5-62.5 |
| PCB-18 | 1.05 | 0.88-1.20 | y | 50.4 | 37.5-62.5 | PCB-67 | 0.77 | 0.65-0.89 | y | 53.3 | 37.5-62.5 |
| PCB-17 | 1.05 | 0.88-1.20 | y | 51.0 | 37.5-62.5 | PCB-58 | 0.78 | 0.65-0.89 | y | 49.3 | 37.5-62.5 |
| PCB-24/27 | 1.06 | 0.88-1.20 | y | 103.5 | 75.0-125 | PCB-63 | 0.76 | 0.65-0.89 | y | 51.7 | 37.5-62.5 |
| PCB-16/32 | 1.05 | 0.88-1.20 | y | 100.5 | 75.0-125 | PCB-74 | 0.77 | 0.65-0.89 | y | 51.8 | 37.5-62.5 |
| PCB-34 | 1.08 | 0.88-1.20 | y | 57.4 | 37.5-62.5 | PCB-61/70 | 0.78 | 0.65-0.89 | y | 101.8 | 75.0-125 |
| PCB-23 | 1.11 | 0.88-1.20 | y | 46.4 | 37.5-62.5 | PCB-76/66 | 0.77 | 0.65-0.89 | y | 103.1 | 75.0-125 |
| PCB-29 | 1.09 | 0.88-1.20 | y | 51.1 | 37.5-62.5 | PCB-80 | 0.78 | 0.65-0.89 | y | 50.2 | 37.5-62.5 |
| PCB-26 | 1.08 | 0.88-1.20 | y | 50.7 | 37.5-62.5 | PCB-55 | 0.77 | 0.65-0.89 | y | 51.5 | 37.5-62.5 |
| PCB-25 | 1.09 | 0.88-1.20 | y | 51.5 | 37.5-62.5 | PCB-56/60 | 0.77 | 0.65-0.89 | y | 100.3 | 75.0-125 |
| PCB-31 | 1.08 | 0.88-1.20 | y | 49.7 | 37.5-62.5 | PCB-79 | 0.78 | 0.65-0.89 | y | 51.2 | 37.5-62.5 |
| PCB-28 | 1.11 | 0.88-1.20 | y | 52.5 | 37.5-62.5 | PCB-78 | 0.78 | 0.65-0.89 | y | 51.1 | 37.5-62.5 |
| PCB-20/21/33 | 1.09 | 0.88-1.20 | y | 152.7 | 112.5-225 | PCB-81 | 0.78 | 0.65-0.89 | y | 50.9 | 37.5-62.5 |
| PCB-22 | 1.08 | 0.88-1.20 | y | 52.6 | 37.5-62.5 | PCB-77 | 0.79 | 0.65-0.89 | y | 52.0 | 37.5-62.5 |
| PCB-36 | 1.09 | 0.88-1.20 | y | 52.3 | 37.5-62.5 | PCB-104 | 1.61 | 1.32-1.78 | y | 50.4 | 37.5-62.5 |
| PCB-39 | 1.08 | 0.88-1.20 | y | 51.7 | 37.5-62.5 | PCB-96 | 1.59 | 1.32-1.78 | y | 50.5 | 37.5-62.5 |
| PCB-38 | 1.10 | 0.88-1.20 | y | 52.4 | 37.5-62.5 | PCB-103 | 1.58 | 1.32-1.78 | y | 50.8 | 37.5-62.5 |
| PCB-35 | 1.11 | 0.88-1.20 | y | 52.7 | 37.5-62.5 | PCB-100 | 1.61 | 1.32-1.78 | y | 50.5 | 37.5-62.5 |
| PCB-37 | 1.09 | 0.88-1.20 | y | 51.2 | 37.5-62.5 | PCB-94 | 1.58 | 1.32-1.78 | y | 50.8 | 37.5-62.5 |
| PCB-54 | 0.76 | 0.65-0.89 | y | 51.7 | 37.5-62.5 | PCB-95/98/102 | 1.60 | 1.32-1.78 | y | 160.1 | 112.5-225 |
| PCB-50 | 0.77 | 0.65-0.89 | y | 51.4 | 37.5-62.5 | PCB-93 | 1.63 | 1.32-1.78 | y | 42.1 | 37.5-62.5 |
| PCB-53 | 0.78 | 0.65-0.89 | y | 50.2 | 37.5-62.5 | PCB-88/91 | 1.59 | 1.32-1.78 | y | 114.0 | 75.0-125 |
| PCB-51 | 0.78 | 0.65-0.89 | y | 53.2 | 37.5-62.5 | PCB-121 | 1.59 | 1.32-1.78 | y | 43.7 | 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 | | | | | | |

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 | QC | PASS | CONC | CONC. |
|-------------|--------|-----------|------|-------|-----------|
| | ABUND. | LIMITS | | FOUND | RANGE |
| | RATIO | | | | (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
Lab ID: ST140620E1-4

Filename: 140620E1 S:4 Acq:20-JUN-14 12:43:46
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 | 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-52/69 | 1.04e+08 | 0.77 | y | 1.28 | 31:33 | 1.001 | 0.996-1.006 | 105.426 |
| PCB-2 | 7.75e+07 | 2.98 | y | 1.18 | 18:36 | 0.988 | 0.983-0.993 | 52.2846 | PCB-73 | 5.51e+07 | 0.77 | y | 1.37 | 31:39 | 1.005 | 1.000-1.010 | 52.1810 |
| PCB-3 | 7.90e+07 | 2.98 | y | 1.22 | 18:50 | 1.001 | 0.996-1.006 | 51.6788 | PCB-43/49 | 8.70e+07 | 0.77 | y | 1.11 | 31:50 | 1.010 | 1.005-1.015 | 101.562 |
| PCB-4/10 | 2.37e+08 | 1.64 | y | 1.55 | 20:12 | 1.003 | 0.998-1.008 | 206.748 | PCB-47 | 4.93e+07 | 0.76 | y | 1.13 | 32:02 | 1.000 | 0.996-1.006 | 53.6979 |
| PCB-7/9 | 2.89e+08 | 1.64 | y | 1.27 | 21:57 | 0.869 | 0.865-0.873 | 204.628 | PCB-48/75 | 1.06e+08 | 0.77 | y | 1.30 | 32:09 | 1.004 | 0.999-1.009 | 99.7567 |
| PCB-6 | 1.40e+08 | 1.64 | y | 1.26 | 22:36 | 0.894 | 0.890-0.899 | 99.9095 | PCB-65 | 5.34e+07 | 0.77 | y | 1.33 | 32:25 | 1.012 | 1.007-1.017 | 49.3948 |
| PCB-5/8 | 2.84e+08 | 1.64 | y | 1.23 | 23:01 | 0.911 | 0.906-0.916 | 206.862 | PCB-62 | 5.60e+07 | 0.77 | y | 1.29 | 32:32 | 1.016 | 1.011-1.021 | 53.4188 |
| PCB-14 | 1.57e+08 | 1.65 | y | 1.23 | 24:06 | 0.954 | 0.949-0.959 | 102.294 | PCB-44 | 3.91e+07 | 0.78 | y | 0.94 | 32:50 | 1.025 | 1.020-1.030 | 51.2578 |
| PCB-11 | 1.47e+08 | 1.66 | y | 1.16 | 25:17 | 1.000 | 0.996-1.006 | 101.627 | PCB-42/59 | 1.02e+08 | 0.77 | y | 1.22 | 33:02 | 1.032 | 1.028-1.038 | 103.394 |
| PCB-12/13 | 2.82e+08 | 1.63 | y | 1.10 | 25:41 | 1.016 | 1.010-1.020 | 205.694 | PCB-41/64/71/72 | 2.19e+08 | 0.78 | y | 1.31 | 33:38 | 1.050 | 1.046-1.056 | 205.816 |
| PCB-15 | 1.52e+08 | 1.66 | y | 1.21 | 26:00 | 1.029 | 1.024-1.034 | 101.148 | PCB-68 | 6.14e+07 | 0.78 | y | 1.49 | 33:54 | 1.059 | 1.054-1.064 | 50.9457 |
| PCB-19 | 4.60e+07 | 1.05 | y | 1.30 | 24:17 | 1.001 | 0.996-1.006 | 49.3886 | PCB-40 | 3.37e+07 | 0.77 | y | 0.82 | 34:06 | 1.065 | 1.061-1.071 | 50.7163 |
| PCB-30 | 6.73e+07 | 1.06 | y | 1.83 | 25:10 | 1.037 | 1.032-1.042 | 51.1589 | PCB-57 | 5.90e+07 | 0.77 | y | 1.11 | 34:28 | 0.970 | 0.965-0.975 | 51.7966 |
| PCB-18 | 4.72e+07 | 1.05 | y | 0.86 | 25:55 | 0.954 | 0.949-0.959 | 50.4475 | PCB-67 | 5.86e+07 | 0.77 | y | 1.07 | 34:46 | 0.979 | 0.974-0.984 | 53.3170 |
| PCB-17 | 5.00e+07 | 1.05 | y | 0.90 | 26:05 | 0.960 | 0.955-0.965 | 50.9703 | PCB-58 | 5.56e+07 | 0.78 | y | 1.10 | 34:53 | 0.982 | 0.977-0.987 | 49.2975 |
| PCB-24/27 | 1.33e+08 | 1.06 | y | 1.18 | 26:40 | 0.981 | 0.976-0.986 | 103.472 | PCB-63 | 5.91e+07 | 0.76 | y | 1.12 | 35:03 | 0.987 | 0.982-0.992 | 51.7181 |
| PCB-16/32 | 1.13e+08 | 1.05 | y | 1.03 | 27:10 | 1.000 | 0.995-1.005 | 100.505 | PCB-74 | 6.38e+07 | 0.77 | y | 1.20 | 35:20 | 0.995 | 0.990-1.000 | 51.8367 |
| PCB-34 | 7.74e+07 | 1.08 | y | 1.26 | 27:58 | 0.961 | 0.956-0.966 | 57.3995 | PCB-61/70 | 1.12e+08 | 0.78 | y | 1.08 | 35:30 | 0.999 | 0.994-1.004 | 101.842 |
| PCB-23 | 6.51e+07 | 1.11 | y | 1.31 | 28:04 | 0.964 | 0.959-0.969 | 46.4036 | PCB-76/66 | 1.20e+08 | 0.77 | y | 1.14 | 35:43 | 1.005 | 1.001-1.011 | 103.088 |
| PCB-29 | 7.26e+07 | 1.09 | y | 1.33 | 28:18 | 0.972 | 0.967-0.977 | 51.0903 | PCB-80 | 6.74e+07 | 0.78 | y | 1.28 | 35:56 | 1.000 | 0.996-1.006 | 50.2410 |
| PCB-26 | 7.01e+07 | 1.08 | y | 1.29 | 28:30 | 0.979 | 0.974-0.984 | 50.7150 | PCB-55 | 6.01e+07 | 0.77 | y | 1.11 | 36:17 | 1.010 | 1.005-1.015 | 51.5207 |
| PCB-25 | 7.40e+07 | 1.09 | y | 1.34 | 28:40 | 0.985 | 0.980-0.990 | 51.5314 | PCB-56/60 | 1.15e+08 | 0.77 | y | 1.09 | 36:46 | 1.023 | 1.018-1.028 | 100.313 |
| PCB-31 | 7.55e+07 | 1.08 | y | 1.42 | 29:02 | 0.997 | 0.992-1.002 | 49.7377 | PCB-79 | 6.04e+07 | 0.78 | y | 1.12 | 37:50 | 1.053 | 1.048-1.058 | 51.1728 |
| PCB-28 | 7.73e+07 | 1.11 | y | 1.38 | 29:07 | 1.000 | 0.996-1.006 | 52.4521 | PCB-78 | 5.76e+07 | 0.78 | y | 1.24 | 38:32 | 0.987 | 0.982-0.992 | 51.0794 |
| PCB-20/21/33 | 2.14e+08 | 1.09 | y | 1.31 | 29:45 | 1.022 | 1.017-1.027 | 152.731 | PCB-81 | 6.41e+07 | 0.78 | y | 1.38 | 39:03 | 1.000 | 0.995-1.005 | 50.9258 |
| PCB-22 | 7.44e+07 | 1.08 | y | 1.32 | 30:11 | 1.037 | 1.032-1.042 | 52.6344 | PCB-77 | 6.12e+07 | 0.79 | y | 1.21 | 39:39 | 1.000 | 0.995-1.005 | 51.9669 |
| PCB-36 | 7.16e+07 | 1.09 | y | 1.38 | 30:47 | 0.933 | 0.929-0.939 | 52.3141 | PCB-104 | 4.41e+07 | 1.61 | y | 1.26 | 32:41 | 1.000 | 0.996-1.006 | 50.3835 |
| PCB-39 | 7.29e+07 | 1.08 | y | 1.42 | 31:16 | 0.948 | 0.943-0.953 | 51.6606 | PCB-96 | 3.84e+07 | 1.59 | y | 1.09 | 33:57 | 1.039 | 1.034-1.044 | 50.4976 |
| PCB-38 | 7.06e+07 | 1.10 | y | 1.35 | 32:02 | 0.971 | 0.967-0.976 | 52.4183 | PCB-103 | 3.30e+07 | 1.58 | y | 0.93 | 34:29 | 1.055 | 1.050-1.060 | 50.7622 |
| PCB-35 | 7.21e+07 | 1.11 | y | 1.38 | 32:33 | 0.987 | 0.982-0.992 | 52.6668 | PCB-100 | 3.52e+07 | 1.61 | y | 1.00 | 34:49 | 1.066 | 1.061-1.071 | 50.4670 |
| PCB-37 | 7.08e+07 | 1.09 | y | 1.39 | 32:59 | 1.000 | 0.996-1.006 | 51.1869 | PCB-94 | 2.91e+07 | 1.58 | y | 1.11 | 35:18 | 0.985 | 0.981-0.991 | 50.7908 |
| PCB-54 | 5.75e+07 | 0.76 | y | 1.20 | 28:01 | 1.001 | 0.996-1.006 | 51.7229 | PCB-84/92 | 5.90e+07 | 1.59 | y | 1.05 | 37:08 | 0.990 | 0.986-0.996 | 103.399 |
| PCB-50 | 4.61e+07 | 0.77 | y | 0.97 | 29:11 | 1.042 | 1.037-1.047 | 51.4094 | PCB-89 | 2.93e+07 | 1.61 | y | 1.02 | 37:19 | 0.995 | 0.991-1.001 | 53.0820 |
| 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 | | | | | | | | | |

RL: MONO, TRI - DECA: _____

RL: DI : _____

Integrations by _____
Analyst: DMS
Date: 6/23/14
Reviewed by _____
Analyst: _____
Date: _____

Client ID: PCB CS3 14F1901
Lab ID: ST140620E1-4

Filename: 140620E1 S:4 Acq:20-JUN-14 12:43:46
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 | 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-133/142 | 7.08e+07 | 1.23 | y | 0.95 | 42:26 | 0.982 | 0.977-0.987 | 102.037 |
| PCB-113 | 4.11e+07 | 1.58 | y | 1.35 | 37:45 | 1.007 | 1.002-1.012 | 56.0520 | PCB-131 | 3.32e+07 | 1.22 | y | 0.91 | 42:36 | 0.986 | 0.981-0.991 | 49.4221 |
| PCB-99 | 3.22e+07 | 1.64 | y | 1.29 | 37:51 | 1.010 | 1.005-1.015 | 46.1415 | PCB-146/165 | 8.56e+07 | 1.24 | y | 1.16 | 42:48 | 0.991 | 0.986-0.996 | 100.884 |
| PCB-119 | 4.21e+07 | 1.61 | y | 1.72 | 38:18 | 0.987 | 0.982-0.992 | 50.2990 | PCB-132/161 | 8.34e+07 | 1.22 | y | 1.11 | 43:03 | 0.996 | 0.992-1.002 | 102.031 |
| PCB-108/112 | 6.45e+07 | 1.63 | y | 1.29 | 38:27 | 0.991 | 0.986-0.996 | 102.978 | PCB-153 | 4.34e+07 | 1.22 | y | 1.18 | 43:14 | 1.001 | 0.995-1.005 | 50.1872 |
| PCB-83 | 3.85e+07 | 1.62 | y | 1.52 | 38:38 | 0.996 | 0.991-1.001 | 52.0737 | PCB-168 | 5.04e+07 | 1.21 | y | 1.37 | 43:27 | 1.006 | 1.000-1.010 | 50.1556 |
| PCB-97 | 3.19e+07 | 1.60 | y | 1.25 | 38:49 | 1.000 | 0.996-1.006 | 52.5654 | PCB-141 | 3.48e+07 | 1.21 | y | 0.97 | 43:58 | 1.001 | 0.996-1.005 | 50.4291 |
| PCB-86 | 2.39e+07 | 1.58 | y | 1.02 | 38:58 | 1.004 | 1.000-1.010 | 48.0340 | PCB-137 | 3.66e+07 | 1.24 | y | 1.07 | 44:21 | 1.009 | 1.004-1.014 | 48.2814 |
| B-87/117/125 | 1.17e+08 | 1.60 | y | 1.56 | 39:05 | 1.007 | 1.002-1.012 | 154.194 | PCB-130 | 3.25e+07 | 1.26 | y | 0.85 | 44:27 | 1.012 | 1.007-1.017 | 54.2556 |
| PCB-111/115 | 8.69e+07 | 1.68 | y | 1.75 | 39:15 | 1.012 | 1.007-1.017 | 101.981 | PCB-138/163/164 | 1.29e+08 | 1.23 | y | 1.23 | 44:50 | 1.001 | 0.996-1.006 | 154.435 |
| PCB-85/116 | 6.45e+07 | 1.48 | y | 1.30 | 39:23 | 1.015 | 1.010-1.020 | 101.910 | PCB-158/160 | 9.17e+07 | 1.23 | y | 1.29 | 45:05 | 1.007 | 1.001-1.011 | 104.238 |
| PCB-120 | 4.26e+07 | 1.57 | y | 1.78 | 39:37 | 1.021 | 1.016-1.026 | 49.1740 | PCB-129 | 3.19e+07 | 1.25 | y | 0.92 | 45:19 | 1.012 | 1.007-1.017 | 50.5660 |
| PCB-110 | 4.18e+07 | 1.61 | y | 1.68 | 39:46 | 1.025 | 1.020-1.030 | 51.1450 | PCB-166 | 4.45e+07 | 1.22 | y | 1.12 | 45:46 | 0.993 | 0.988-0.998 | 51.1070 |
| PCB-82 | 2.58e+07 | 1.59 | y | 0.74 | 40:23 | 0.976 | 0.972-0.982 | 49.2945 | PCB-159 | 4.79e+07 | 1.23 | y | 1.16 | 46:05 | 1.000 | 0.995-1.005 | 52.6640 |
| PCB-124 | 4.68e+07 | 1.60 | y | 1.32 | 41:03 | 0.993 | 0.988-0.998 | 49.9220 | PCB-128/162 | 8.32e+07 | 1.22 | y | 1.02 | 46:22 | 1.006 | 1.002-1.012 | 104.591 |
| PCB-107/109 | 8.79e+07 | 1.59 | y | 1.22 | 41:12 | 0.996 | 0.991-1.001 | 101.669 | PCB-167 | 4.69e+07 | 1.21 | y | 1.06 | 46:47 | 1.001 | 0.995-1.005 | 51.5594 |
| PCB-123 | 4.52e+07 | 1.59 | y | 1.22 | 41:22 | 1.000 | 0.995-1.005 | 52.4448 | PCB-156 | 4.73e+07 | 1.22 | y | 1.18 | 48:04 | 1.000 | 0.995-1.005 | 49.4312 |
| PCB-106/118 | 9.37e+07 | 1.62 | y | 1.22 | 41:35 | 1.001 | 0.996-1.006 | 104.679 | PCB-157 | 4.74e+07 | 1.22 | y | 1.08 | 48:20 | 1.000 | 0.995-1.005 | 51.2216 |
| PCB-114 | 5.41e+07 | 1.64 | y | 1.36 | 42:13 | 1.000 | 0.995-1.005 | 50.6622 | PCB-169 | 4.38e+07 | 1.22 | y | 1.11 | 50:24 | 1.000 | 0.995-1.005 | 49.8867 |
| 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-188 | 4.41e+07 | 1.02 | y | 1.40 | 42:52 | 1.000 | 0.995-1.005 | 50.7803 |
| PCB-127 | 5.04e+07 | 1.64 | y | 1.14 | 43:24 | 1.000 | 0.995-1.005 | 51.1125 | PCB-184 | 3.92e+07 | 1.04 | y | 1.24 | 43:18 | 1.011 | 1.006-1.016 | 51.2869 |
| PCB-126 | 4.91e+07 | 1.62 | y | 1.28 | 45:19 | 1.001 | 0.995-1.005 | 51.0683 | 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-155 | 3.50e+07 | 1.27 | y | 1.14 | 37:04 | 1.001 | 0.966-1.006 | 52.6727 | PCB-186 | 4.04e+07 | 1.04 | y | 1.28 | 45:10 | 1.054 | 1.049-1.059 | 51.1676 |
| PCB-150 | 3.23e+07 | 1.28 | y | 1.06 | 38:20 | 1.035 | 1.030-1.040 | 51.8920 | PCB-178 | 2.94e+07 | 1.04 | y | 0.94 | 45:39 | 1.066 | 1.061-1.071 | 50.8281 |
| PCB-152 | 3.28e+07 | 1.27 | y | 1.10 | 38:49 | 1.048 | 1.043-1.053 | 51.0615 | PCB-175 | 3.16e+07 | 1.04 | y | 0.97 | 46:00 | 1.074 | 1.069-1.079 | 52.7165 |
| PCB-145 | 3.24e+07 | 1.26 | y | 1.09 | 39:15 | 1.060 | 1.055-1.065 | 50.6281 | PCB-182/187 | 6.54e+07 | 1.04 | y | 1.01 | 46:11 | 1.078 | 1.073-1.083 | 104.234 |
| PCB-136 | 3.31e+07 | 1.27 | y | 1.08 | 39:35 | 1.069 | 1.064-1.074 | 52.0720 | PCB-183 | 3.41e+07 | 1.04 | y | 1.08 | 46:29 | 1.085 | 1.080-1.090 | 50.9232 |
| PCB-148 | 2.22e+07 | 1.30 | y | 0.74 | 39:40 | 1.071 | 1.066-1.076 | 51.2670 | PCB-185 | 3.03e+07 | 1.04 | y | 1.34 | 47:09 | 0.956 | 0.951-0.961 | 50.2993 |
| PCB-154 | 2.71e+07 | 1.25 | y | 0.88 | 40:10 | 1.084 | 1.079-1.089 | 52.4052 | PCB-174 | 2.95e+07 | 1.03 | y | 1.34 | 47:31 | 0.963 | 0.958-0.968 | 49.0649 |
| PCB-151 | 2.51e+07 | 1.30 | y | 0.81 | 40:48 | 1.102 | 1.097-1.107 | 52.9183 | PCB-181 | 3.20e+07 | 1.06 | y | 1.36 | 47:37 | 0.966 | 0.961-0.971 | 52.3684 |
| PCB-135 | 2.36e+07 | 1.28 | y | 0.78 | 41:01 | 1.107 | 1.101-1.113 | 51.8361 | PCB-177 | 2.85e+07 | 1.05 | y | 1.24 | 47:48 | 0.969 | 0.964-0.974 | 51.2147 |
| PCB-144 | 2.64e+07 | 1.36 | y | 0.82 | 41:08 | 1.110 | 1.105-1.116 | 54.9912 | PCB-171 | 2.93e+07 | 1.04 | y | 1.31 | 48:05 | 0.975 | 0.970-0.980 | 49.7433 |
| PCB-147 | 2.56e+07 | 1.18 | y | 0.83 | 41:16 | 1.114 | 1.011-1.120 | 52.8823 | PCB-173 | 2.59e+07 | 1.05 | y | 1.16 | 48:31 | 0.984 | 0.979-0.989 | 49.7232 |
| PCB-139/149 | 5.32e+07 | 1.27 | y | 0.84 | 41:31 | 1.121 | 1.115-1.127 | 107.613 | PCB-172 | 2.73e+07 | 1.02 | y | 1.22 | 48:57 | 0.993 | 0.988-0.998 | 49.7746 |
| PCB-140 | 2.51e+07 | 1.28 | y | 0.79 | 41:43 | 1.126 | 1.120-1.132 | 54.6052 | PCB-192 | 3.46e+07 | 1.05 | y | 1.53 | 49:09 | 0.996 | 0.991-1.001 | 50.4921 |
| PCB-134/143 | 7.01e+07 | 1.24 | y | 0.93 | 42:08 | 0.975 | 0.970-0.980 | 102.949 | PCB-180 | 3.15e+07 | 1.04 | y | 1.43 | 49:20 | 1.000 | 0.995-1.005 | 49.0865 |

Integrations

by

RL: MONO, TRI - DECA: _____

Analyst: *DMS*

Date: *6/23/14*

Client ID: PCB CS3 14F1901
Lab ID: ST140620E1-4

Filename: 140620E1 S:4 Acq:20-JUN-14 12:43:46
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000
ConCal: ST140620E1-4
EndCAL: ST140620E1-8

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Name | Resp | RA | RT | RRF | Conc |
|---------------|----------|--------|------|-------|-------|-------------|-----|---------|-----------------|----------|--------|-------|------|------------------------------|
| PCB-193 | 3.74e+07 | 1.05 y | 1.65 | 49:32 | 1.004 | 0.999-1.009 | | 50.3769 | Total Mono-PCB | 2.34e+08 | 2.96 y | 16:15 | 1.22 | 156.271 |
| PCB-191 | 3.75e+07 | 1.06 y | 1.67 | 49:47 | 1.009 | 1.004-1.014 | | 49.9945 | Total Di-PCB | 1.69e+09 | 1.64 y | 20:12 | 1.21 | 1228.91 |
| PCB-170 | 2.66e+07 | 1.03 y | 1.50 | 50:46 | 1.000 | 0.995-1.005 | | 49.6074 | Total Tri-PCB | 4.56e+08 | 1.05 y | 24:17 | 1.16 | 405.942 |
| PCB-190 | 3.64e+07 | 1.02 y | 2.02 | 50:55 | 1.003 | 0.998-1.008 | | 50.4804 | Total Tri-PCB | 1.17e+09 | 1.08 y | 27:58 | 1.35 | 834.371 |
| PCB-189 | 3.90e+07 | 1.04 y | 1.54 | 52:12 | 1.000 | 0.995-1.005 | | 51.6684 | 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 |
| PCB-202 | 2.92e+07 | 0.91 y | 1.04 | 48:17 | 1.000 | 0.995-1.005 | | 49.9695 | Total Penta-PCB | 2.69e+08 | 1.64 y | 42:13 | 1.26 | 267.736 |
| PCB-201 | 3.12e+07 | 0.93 y | 1.10 | 48:46 | 1.011 | 1.006-1.016 | | 50.3688 | Total Hexa-PCB | 3.94e+08 | 1.27 y | 37:04 | 0.92 | 736.844 |
| PCB-204 | 2.91e+07 | 0.88 y | 0.99 | 48:56 | 1.014 | 1.009-1.019 | | 52.0459 | Total Hexa-PCB | 1.17e+09 | 1.24 y | 42:08 | 1.08 | 1448.04 |
| PCB-197 | 3.14e+07 | 0.91 y | 1.07 | 49:13 | 1.020 | 1.015-1.025 | | 51.9828 | Total Hepta-PCB | 8.19e+08 | 1.02 y | 42:52 | 1.27 | 1225.74 |
| PCB-200 | 3.00e+07 | 0.91 y | 1.02 | 50:03 | 1.037 | 1.032-1.044 | | 52.4432 | Total Octa-PCB | 2.40e+08 | 0.91 y | 48:17 | 0.92 | 465.773 |
| PCB-198 | 2.15e+07 | 0.90 y | 0.74 | 51:20 | 1.063 | 1.058-1.068 | | 51.5297 | Total Octa-PCB | 9.28e+07 | 0.90 y | 52:49 | 1.29 | 154.410 |
| PCB-199 | 2.15e+07 | 0.89 y | 0.73 | 51:25 | 1.065 | 1.060-1.070 | | 52.5143 | Total Nona-PCB | 8.35e+07 | 1.33 y | 52:57 | 0.96 | 149.999 |
| - PCB-196/203 | 4.56e+07 | 0.90 y | 0.77 | 51:41 | 1.071 | 1.066-1.076 | | 104.918 | Total Deca-PCB | 2.28e+07 | 1.19 y | 56:38 | 1.18 | 52.4674 |
| - 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 | | | | | | |
| | | | | | | | | | | | | | | Total PCB Conc:11327.5526340 |
| 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 | | | | | | |

Integrations
by
Analyst: DMS
Date: 6/23/14
RL: MONO, TRI - DECA: _____

Client ID: PCB CS3 14F1901
Lab ID: ST140620E1-4

Filename: 140620E1 S:4 Acq:20-JUN-14 12:43:46
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST140620E1-4
EndCAL: ST140620E1-8

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec | CRS vs. RS | 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-79 | 1.21e+08 | 0.80 y | 1.01 | 37:49 | 1.028 | 1.023-1.033 | | 109 | 109 | |
| 13C-PCB-3 | 1.25e+08 | 3.32 y | 0.93 | 18:49 | 0.725 | 0.721-0.729 | | 100 | 100 | | 13C-PCB-178 | 4.58e+07 | 0.46 y | 0.63 | 45:38 | 0.984 | 0.979-0.989 | | 109 | 109 | |
| 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 | PS vs. IS | | | | | | | | | | | |
| 13C-PCB-19 | 7.19e+07 | 1.04 y | 0.53 | 24:16 | 0.934 | 0.929-0.939 | | 100 | 100 | | 13C-PCB-79 | 1.21e+08 | 0.80 y | 1.20 | 37:49 | 0.968 | 0.963-0.973 | | 110 | 110 | |
| 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-178 | 4.58e+07 | 0.46 y | 0.94 | 45:38 | 0.925 | 0.920-0.930 | | 109 | 109 | |
| 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 | RS | | | | | | | | | | | |
| 13C-PCB-97 | 4.86e+07 | 1.60 y | 0.69 | 38:48 | 0.989 | 0.984-0.994 | | 99.7 | 99.7 | | Name | Resp | RA | RRF | RT | Conc | | | | | |
| 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-15 | 1.35e+08 | 1.56 y | 1.00 | 25:58 | 100 | | | | | |
| 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-31 | 1.25e+08 | 1.07 y | 1.00 | 29:00 | 100 | | | | | |
| 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-60 | 1.10e+08 | 0.80 y | 1.00 | 36:46 | 100 | | | | | |
| 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-111 | 7.08e+07 | 1.59 y | 1.00 | 39:14 | 100 | | | | | |
| 13C-PCB-118 | 7.31e+07 | 1.59 y | 0.98 | 41:32 | 1.059 | 1.054-1.064 | | 105 | 105 | | 13C-PCB-128 | 6.69e+07 | 1.27 y | 1.00 | 46:21 | 100 | | | | | |
| 13C-PCB-123 | 7.08e+07 | 1.58 y | 0.95 | 41:21 | 1.054 | 1.049-1.059 | | 105 | 105 | | 13C-PCB-205 | 5.82e+07 | 0.91 y | 1.00 | 53:57 | 100 | | | | | |
| 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 | | | | | | | | | | | | |

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 |

Run: 140623E2

Analyte: PCBNEW

Cal: PCBVG8-6-23-14

Inst. ID: VG R

Data filename: 140623E2

| Name | Mean RRF | %RSD | Samp# 1 | Samp# 2 | Samp# 3 | Samp# 4 | Samp# 5 | Samp# 6 |
|--------------|----------|---------|---------|---------|---------|---------|---------|---------|
| | | | 0.25 | 1.0 | 2.5 | 50 | 400 | 750 |
| | | | RRF#1 | RRF#2 | RRF#3 | RRF#4 | RRF#5 | 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 | 1.60 | 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 |

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|----------------|------|--------|------|------|------|------|------|------|
| 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 | 0.89 | 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 |

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|-------------|------|--------|------|------|------|------|------|------|
| 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 |

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|----|-------|-----------------|------|----------|--------|-------|---|------|
| 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 |

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|-----|-------|----------------|------|----------|--------|-------|---|------|
| 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-82 | 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 |

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|-----|------|-------------|------|----------|--------|-------|---|------|
| 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 |

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|-----|-------|-----------------|------|----------|--------|-------|---|------|
| 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 |

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|-----|------------|----------------|------|----------|--------|-------|---|------|
| 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 η | Total Mono-PCB | 0.00 | - | - n | - | - | 1.15 |
| 170 | Tot η | Total Di-PCB | 0.00 | - | - n | - | - | 1.19 |

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|-----|------|-----|-----------------|--------|----------|------|---|-------|---|------|
| 171 | Tot | η | Total Tri-PCB | 0.00 | - | - | n | - | - | 1.06 |
| 172 | Tot | η | Total Tri-PCB | 0.00 | - | - | n | - | - | 1.33 |
| 173 | Tot | η | Total Tetra-PCB | 0.00 | - | - | n | - | - | 1.14 |
| 174 | Tot | η | Total Penta-PCB | 0.00 | - | - | n | - | - | 1.18 |
| 175 | Tot | η | Total Penta-PCB | 0.00 | - | - | n | - | - | 1.28 |
| 176 | Tot | η | Total Hexa-PCB | 0.00 | - | - | n | - | - | 0.90 |
| 177 | Tot | η | Total Hexa-PCB | 0.00 | - | - | n | - | - | 1.13 |
| 178 | Tot | η | Total Hepta-PCB | 0.00 | - | - | n | - | - | 1.41 |
| 179 | Tot | η | Total Octa-PCB | 0.00 | - | - | n | - | - | 0.92 |
| 180 | Tot | η | Total Octa-PCB | 0.00 | - | - | n | - | - | 1.33 |
| 181 | Tot | η | Total Nona-PCB | 0.00 | - | - | n | - | - | 1.03 |
| 182 | Tot | η | Total Deca-PCB | 0.25 | 1.20e+05 | 1.18 | y | 56:37 | - | 1.15 |
| 183 | Mono | η | 13C-PCB-1 | 100.00 | 1.84e+08 | 3.30 | y | 16:23 | - | 1.00 |
| 184 | Mono | η | 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 | -η | 13C-PCB-19 | 100.00 | 1.07e+08 | 1.08 | y | 24:13 | - | 0.58 |
| 189 | Tri | -η | 13C-PCB-32 | 100.00 | 1.60e+08 | 1.07 | y | 27:05 | - | 0.87 |
| 190 | Tri | -η | 13C-PCB-28 | 100.00 | 1.55e+08 | 1.06 | y | 29:00 | - | 0.92 |
| 191 | Tri | -η | 13C-PCB-37 | 100.00 | 1.46e+08 | 1.07 | y | 32:51 | - | 0.87 |
| 192 | Tetr | η | 13C-PCB-54 | 100.00 | 1.29e+08 | 0.80 | y | 27:54 | - | 0.96 |
| 193 | Tetr | η | 13C-PCB-52 | 100.00 | 1.08e+08 | 0.80 | y | 31:23 | - | 0.80 |
| 194 | Tetr | η | 13C-PCB-47 | 100.00 | 1.14e+08 | 0.80 | y | 31:53 | - | 0.85 |
| 195 | Tetr | η | 13C-PCB-70 | 100.00 | 1.38e+08 | 0.80 | y | 35:24 | - | 1.03 |
| 196 | Tetr | η | 13C-PCB-80 | 100.00 | 1.41e+08 | 0.80 | y | 35:48 | - | 1.05 |
| 197 | Tetr | η | 13C-PCB-81 | 100.00 | 1.22e+08 | 0.80 | y | 38:55 | - | 0.91 |
| 198 | Tetr | η | 13C-PCB-77 | 100.00 | 1.28e+08 | 0.80 | y | 39:31 | - | 0.95 |
| 199 | Pent | η | 13C-PCB-104 | 100.00 | 9.53e+07 | 1.55 | y | 32:33 | - | 1.02 |
| 200 | Pent | η | 13C-PCB-95 | 100.00 | 6.94e+07 | 1.58 | y | 35:42 | - | 0.74 |
| 201 | Pent | η | 13C-PCB-101 | 100.00 | 7.42e+07 | 1.61 | y | 37:22 | - | 0.79 |
| 202 | Pent | η | 13C-PCB-97 | 100.00 | 6.72e+07 | 1.62 | y | 38:40 | - | 0.72 |
| 203 | Pent | η | 13C-PCB-123 | 100.00 | 8.66e+07 | 1.59 | y | 41:15 | - | 0.92 |
| 204 | Pent | η | 13C-PCB-118 | 100.00 | 9.00e+07 | 1.59 | y | 41:25 | - | 0.96 |
| 205 | Pent | η | 13C-PCB-114 | 100.00 | 9.79e+07 | 1.62 | y | 42:05 | - | 1.33 |
| 206 | Pent | η | 13C-PCB-105 | 100.00 | 9.84e+07 | 1.62 | y | 42:57 | - | 1.34 |
| 207 | Pent | η | 13C-PCB-127 | 100.00 | 1.04e+08 | 1.60 | y | 43:17 | - | 1.42 |
| 208 | Pent | η | 13C-PCB-126 | 100.00 | 9.44e+07 | 1.59 | y | 45:11 | - | 1.29 |
| 209 | Hexa | η | 13C-PCB-155 | 100.00 | 8.36e+07 | 1.29 | y | 36:55 | - | 0.89 |
| 210 | Hexa | η | 13C-PCB-153 | 100.00 | 8.47e+07 | 1.26 | y | 43:06 | - | 1.15 |
| 211 | Hexa | η | 13C-PCB-141 | 100.00 | 7.81e+07 | 1.26 | y | 43:50 | - | 1.07 |
| 212 | Hexa | η | 13C-PCB-138 | 100.00 | 8.05e+07 | 1.27 | y | 44:41 | - | 1.10 |
| 213 | Hexa | η | 13C-PCB-159 | 100.00 | 9.21e+07 | 1.27 | y | 45:58 | - | 1.26 |
| 214 | Hexa | η | 13C-PCB-167 | 100.00 | 9.97e+07 | 1.26 | y | 46:40 | - | 1.36 |
| 215 | Hexa | η | 13C-PCB-156 | 100.00 | 9.50e+07 | 1.29 | y | 47:58 | - | 1.30 |
| 216 | Hexa | η | 13C-PCB-157 | 100.00 | 1.00e+08 | 1.32 | y | 48:14 | - | 1.37 |
| 217 | Hexa | η | 13C-PCB-169 | 100.00 | 9.71e+07 | 1.27 | y | 50:19 | - | 1.32 |
| 218 | Hept | η | 13C-PCB-188 | 100.00 | 7.00e+07 | 0.47 | y | 42:44 | - | 0.95 |
| 219 | Hept | η | 13C-PCB-180 | 100.00 | 5.49e+07 | 0.46 | y | 49:15 | - | 0.75 |
| 220 | Hept | η | 13C-PCB-170 | 100.00 | 4.33e+07 | 0.46 | y | 50:40 | - | 0.59 |
| 221 | Hept | η | 13C-PCB-189 | 100.00 | 5.61e+07 | 0.46 | y | 52:07 | - | 0.77 |

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| 222 | Octaη | 13C-PCB-202 | 100.00 | 6.86e+07 | 0.93 y | 48:10 | - | 0.94 |
| 223 | Octaη | 13C-PCB-194 | 100.00 | 5.37e+07 | 0.93 y | 53:37 | - | 0.79 |
| 224 | Nonaη | 13C-PCB-208 | 100.00 | 7.40e+07 | 0.78 y | 52:53 | - | 1.09 |
| 225 | Nonaη | 13C-PCB-206 | 100.00 | 4.38e+07 | 0.78 y | 55:20 | - | 0.65 |
| 226 | Decaη | 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-η | 13C-PCB-31 | 100.00 | 1.69e+08 | 1.07 y | 28:54 | - | 1.00 |
| 229 | Tetrη | 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 | Hexaη | 13C-PCB-128 | 100.00 | 7.33e+07 | 1.25 y | 46:16 | - | 1.00 |

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|-----|-------|-------------|--------|----------|--------|-------|---|------|
| 232 | Octaη | 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 |

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|-----|------|-------------|------|----------|--------|-------|---|------|
| 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 η | Total Mono-PCB | 0.00 | - | - n | - | - | 1.21 |
| 170 | Tot η | Total Di-PCB | 0.00 | - | - n | - | - | 1.18 |
| 171 | Tot η | Total Tri-PCB | 0.00 | - | - n | - | - | 1.08 |

| | | | | | | | | | | |
|-----|------|-----|-----------------|--------|----------|------|---|-------|---|------|
| 172 | Tot | η | Total Tri-PCB | 0.00 | - | - | n | - | - | 1.23 |
| 173 | Tot | η | Total Tetra-PCB | 0.00 | - | - | n | - | - | 1.10 |
| 174 | Tot | η | Total Penta-PCB | 0.00 | - | - | n | - | - | 1.16 |
| 175 | Tot | η | Total Penta-PCB | 0.00 | - | - | n | - | - | 1.24 |
| 176 | Tot | η | Total Hexa-PCB | 0.00 | - | - | n | - | - | 0.87 |
| 177 | Tot | η | Total Hexa-PCB | 0.00 | - | - | n | - | - | 1.08 |
| 178 | Tot | η | Total Hepta-PCB | 0.00 | - | - | n | - | - | 1.40 |
| 179 | Tot | η | Total Octa-PCB | 0.00 | - | - | n | - | - | 0.93 |
| 180 | Tot | η | Total Octa-PCB | 0.00 | - | - | n | - | - | 1.31 |
| 181 | Tot | η | Total Nona-PCB | 0.00 | - | - | n | - | - | 1.00 |
| 182 | Tot | η | Total Deca-PCB | 1.00 | 4.74e+05 | 1.30 | y | 56:37 | - | 1.12 |
| 183 | Mono | η | 13C-PCB-1 | 100.00 | 1.69e+08 | 3.26 | y | 16:23 | - | 0.92 |
| 184 | Mono | η | 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 | -η | 13C-PCB-19 | 100.00 | 1.03e+08 | 1.08 | y | 24:13 | - | 0.56 |
| 189 | Tri | -η | 13C-PCB-32 | 100.00 | 1.51e+08 | 1.08 | y | 27:05 | - | 0.82 |
| 190 | Tri | -η | 13C-PCB-28 | 100.00 | 1.49e+08 | 1.05 | y | 29:01 | - | 0.91 |
| 191 | Tri | -η | 13C-PCB-37 | 100.00 | 1.36e+08 | 1.07 | y | 32:51 | - | 0.84 |
| 192 | Tetr | η | 13C-PCB-54 | 100.00 | 1.25e+08 | 0.80 | y | 27:55 | - | 0.96 |
| 193 | Tetr | η | 13C-PCB-52 | 100.00 | 1.00e+08 | 0.79 | y | 31:24 | - | 0.77 |
| 194 | Tetr | η | 13C-PCB-47 | 100.00 | 1.04e+08 | 0.79 | y | 31:54 | - | 0.80 |
| 195 | Tetr | η | 13C-PCB-70 | 100.00 | 1.29e+08 | 0.80 | y | 35:24 | - | 0.99 |
| 196 | Tetr | η | 13C-PCB-80 | 100.00 | 1.33e+08 | 0.79 | y | 35:49 | - | 1.02 |
| 197 | Tetr | η | 13C-PCB-81 | 100.00 | 1.18e+08 | 0.79 | y | 38:55 | - | 0.91 |
| 198 | Tetr | η | 13C-PCB-77 | 100.00 | 1.20e+08 | 0.79 | y | 39:30 | - | 0.93 |
| 199 | Pent | η | 13C-PCB-104 | 100.00 | 9.09e+07 | 1.57 | y | 32:33 | - | 1.02 |
| 200 | Pent | η | 13C-PCB-95 | 100.00 | 6.52e+07 | 1.56 | y | 35:42 | - | 0.73 |
| 201 | Pent | η | 13C-PCB-101 | 100.00 | 7.00e+07 | 1.57 | y | 37:22 | - | 0.79 |
| 202 | Pent | η | 13C-PCB-97 | 100.00 | 6.28e+07 | 1.60 | y | 38:40 | - | 0.71 |
| 203 | Pent | η | 13C-PCB-123 | 100.00 | 8.04e+07 | 1.57 | y | 41:15 | - | 0.90 |
| 204 | Pent | η | 13C-PCB-118 | 100.00 | 8.60e+07 | 1.62 | y | 41:25 | - | 0.97 |
| 205 | Pent | η | 13C-PCB-114 | 100.00 | 9.51e+07 | 1.64 | y | 42:05 | - | 1.33 |
| 206 | Pent | η | 13C-PCB-105 | 100.00 | 9.62e+07 | 1.60 | y | 42:57 | - | 1.34 |
| 207 | Pent | η | 13C-PCB-127 | 100.00 | 1.06e+08 | 1.61 | y | 43:17 | - | 1.48 |
| 208 | Pent | η | 13C-PCB-126 | 100.00 | 9.30e+07 | 1.60 | y | 45:11 | - | 1.30 |
| 209 | Hexa | η | 13C-PCB-155 | 100.00 | 7.57e+07 | 1.27 | y | 36:55 | - | 0.85 |
| 210 | Hexa | η | 13C-PCB-153 | 100.00 | 8.33e+07 | 1.30 | y | 43:06 | - | 1.16 |
| 211 | Hexa | η | 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 | η | 13C-PCB-159 | 100.00 | 9.11e+07 | 1.28 | y | 45:59 | - | 1.27 |
| 214 | Hexa | η | 13C-PCB-167 | 100.00 | 9.84e+07 | 1.27 | y | 46:40 | - | 1.37 |
| 215 | Hexa | η | 13C-PCB-156 | 100.00 | 9.34e+07 | 1.28 | y | 47:58 | - | 1.30 |
| 216 | Hexa | η | 13C-PCB-157 | 100.00 | 9.73e+07 | 1.29 | y | 48:14 | - | 1.36 |
| 217 | Hexa | η | 13C-PCB-169 | 100.00 | 9.18e+07 | 1.27 | y | 50:19 | - | 1.28 |
| 218 | Hept | η | 13C-PCB-188 | 100.00 | 6.44e+07 | 0.46 | y | 42:44 | - | 0.90 |
| 219 | Hept | η | 13C-PCB-180 | 100.00 | 5.02e+07 | 0.46 | y | 49:15 | - | 0.70 |
| 220 | Hept | η | 13C-PCB-170 | 100.00 | 4.02e+07 | 0.48 | y | 50:40 | - | 0.56 |
| 221 | Hept | η | 13C-PCB-189 | 100.00 | 5.29e+07 | 0.47 | y | 52:06 | - | 0.74 |
| 222 | Octa | η | 13C-PCB-202 | 100.00 | 6.22e+07 | 0.90 | y | 48:10 | - | 0.87 |

| | | | | | | | | |
|-----|--------|-------------|--------|----------|--------|-------|---|------|
| 223 | Octaη | 13C-PCB-194 | 100.00 | 5.51e+07 | 0.92 y | 53:37 | - | 0.81 |
| 224 | Nonaη | 13C-PCB-208 | 100.00 | 7.43e+07 | 0.77 y | 52:53 | - | 1.09 |
| 225 | Nonaη | 13C-PCB-206 | 100.00 | 4.47e+07 | 0.79 y | 55:19 | - | 0.66 |
| 226 | Decaη | 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-η | 13C-PCB-31 | 100.00 | 1.63e+08 | 1.05 y | 28:54 | - | 1.00 |
| 229 | Tetraη | 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 | Hexaη | 13C-PCB-128 | 100.00 | 7.17e+07 | 1.30 y | 46:16 | - | 1.00 |
| 232 | Octaη | 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 |

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|-----|------|-------------|------|----------|--------|-------|---|------|
| 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 η | Total Mono-PCB | 0.00 | - | - n | - | - | 1.24 |
| 170 | Tot η | Total Di-PCB | 0.00 | - | - n | - | - | 1.20 |
| 171 | Tot η | Total Tri-PCB | 0.00 | - | - n | - | - | 1.09 |

| | | | | | | | | | |
|-----|-------|---|-----------------|--------|----------|--------|-------|---|------|
| 172 | Tot | η | Total Tri-PCB | 0.00 | - | - n | - | - | 1.24 |
| 173 | Tot | η | Total Tetra-PCB | 0.00 | - | - n | - | - | 1.08 |
| 174 | Tot | η | Total Penta-PCB | 0.00 | - | - n | - | - | 1.17 |
| 175 | Tot | η | Total Penta-PCB | 0.00 | - | - n | - | - | 1.26 |
| 176 | Tot | η | Total Hexa-PCB | 0.00 | - | - n | - | - | 0.88 |
| 177 | Tot | η | Total Hexa-PCB | 0.00 | - | - n | - | - | 1.10 |
| 178 | Tot | η | Total Hepta-PCB | 0.00 | - | - n | - | - | 1.42 |
| 179 | Tot | η | Total Octa-PCB | 0.00 | - | - n | - | - | 0.95 |
| 180 | Tot | η | Total Octa-PCB | 0.00 | - | - n | - | - | 1.32 |
| 181 | Tot | η | Total Nona-PCB | 0.00 | - | - n | - | - | 0.98 |
| 182 | Tot | η | Total Deca-PCB | 2.50 | 1.17e+06 | 1.22 y | 56:39 | - | 1.17 |
| 183 | Mono | η | 13C-PCB-1 | 100.00 | 1.61e+08 | 3.34 y | 16:23 | - | 0.91 |
| 184 | Mono | η | 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-η | | 13C-PCB-19 | 100.00 | 9.81e+07 | 1.09 y | 24:13 | - | 0.56 |
| 189 | Tri-η | | 13C-PCB-32 | 100.00 | 1.41e+08 | 1.10 y | 27:05 | - | 0.80 |
| 190 | Tri-η | | 13C-PCB-28 | 100.00 | 1.45e+08 | 1.05 y | 29:00 | - | 0.93 |
| 191 | Tri-η | | 13C-PCB-37 | 100.00 | 1.23e+08 | 1.05 y | 32:51 | - | 0.79 |
| 192 | Tetrη | | 13C-PCB-54 | 100.00 | 1.19e+08 | 0.80 y | 27:55 | - | 0.97 |
| 193 | Tetrη | | 13C-PCB-52 | 100.00 | 9.54e+07 | 0.79 y | 31:24 | - | 0.77 |
| 194 | Tetrη | | 13C-PCB-47 | 100.00 | 9.99e+07 | 0.78 y | 31:53 | - | 0.81 |
| 195 | Tetrη | | 13C-PCB-70 | 100.00 | 1.22e+08 | 0.79 y | 35:24 | - | 0.99 |
| 196 | Tetrη | | 13C-PCB-80 | 100.00 | 1.26e+08 | 0.79 y | 35:48 | - | 1.02 |
| 197 | Tetrη | | 13C-PCB-81 | 100.00 | 1.13e+08 | 0.80 y | 38:55 | - | 0.92 |
| 198 | Tetrη | | 13C-PCB-77 | 100.00 | 1.13e+08 | 0.81 y | 39:31 | - | 0.92 |
| 199 | Pentη | | 13C-PCB-104 | 100.00 | 8.51e+07 | 1.58 y | 32:33 | - | 1.01 |
| 200 | Pentη | | 13C-PCB-95 | 100.00 | 6.16e+07 | 1.60 y | 35:42 | - | 0.73 |
| 201 | Pentη | | 13C-PCB-101 | 100.00 | 6.46e+07 | 1.61 y | 37:22 | - | 0.77 |
| 202 | Pentη | | 13C-PCB-97 | 100.00 | 5.95e+07 | 1.56 y | 38:40 | - | 0.71 |
| 203 | Pentη | | 13C-PCB-123 | 100.00 | 7.57e+07 | 1.60 y | 41:14 | - | 0.90 |
| 204 | Pentη | | 13C-PCB-118 | 100.00 | 7.96e+07 | 1.58 y | 41:25 | - | 0.95 |
| 205 | Pentη | | 13C-PCB-114 | 100.00 | 9.23e+07 | 1.63 y | 42:05 | - | 1.35 |
| 206 | Pentη | | 13C-PCB-105 | 100.00 | 9.25e+07 | 1.61 y | 42:57 | - | 1.36 |
| 207 | Pentη | | 13C-PCB-127 | 100.00 | 1.01e+08 | 1.61 y | 43:17 | - | 1.48 |
| 208 | Pentη | | 13C-PCB-126 | 100.00 | 8.91e+07 | 1.60 y | 45:11 | - | 1.31 |
| 209 | Hexaη | | 13C-PCB-155 | 100.00 | 7.08e+07 | 1.28 y | 36:55 | - | 0.84 |
| 210 | Hexaη | | 13C-PCB-153 | 100.00 | 7.84e+07 | 1.29 y | 43:06 | - | 1.15 |
| 211 | Hexaη | | 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 | Hexaη | | 13C-PCB-159 | 100.00 | 8.52e+07 | 1.28 y | 45:58 | - | 1.25 |
| 214 | Hexaη | | 13C-PCB-167 | 100.00 | 9.23e+07 | 1.29 y | 46:40 | - | 1.35 |
| 215 | Hexaη | | 13C-PCB-156 | 100.00 | 8.80e+07 | 1.30 y | 47:58 | - | 1.29 |
| 216 | Hexaη | | 13C-PCB-157 | 100.00 | 9.23e+07 | 1.29 y | 48:14 | - | 1.35 |
| 217 | Hexaη | | 13C-PCB-169 | 100.00 | 8.83e+07 | 1.28 y | 50:19 | - | 1.29 |
| 218 | Heptη | | 13C-PCB-188 | 100.00 | 6.20e+07 | 0.47 y | 42:44 | - | 0.91 |
| 219 | Heptη | | 13C-PCB-180 | 100.00 | 4.56e+07 | 0.47 y | 49:15 | - | 0.67 |
| 220 | Heptη | | 13C-PCB-170 | 100.00 | 3.64e+07 | 0.46 y | 50:40 | - | 0.53 |
| 221 | Heptη | | 13C-PCB-189 | 100.00 | 4.86e+07 | 0.48 y | 52:07 | - | 0.71 |
| 222 | Octaη | | 13C-PCB-202 | 100.00 | 5.66e+07 | 0.90 y | 48:10 | - | 0.83 |

| | | | | | | | | |
|-----|-------|-------------|--------|----------|--------|-------|---|------|
| 223 | Octaη | 13C-PCB-194 | 100.00 | 5.12e+07 | 0.92 y | 53:38 | - | 0.80 |
| 224 | Nonaη | 13C-PCB-208 | 100.00 | 6.94e+07 | 0.78 y | 52:53 | - | 1.09 |
| 225 | Nonaη | 13C-PCB-206 | 100.00 | 4.16e+07 | 0.79 y | 55:20 | - | 0.65 |
| 226 | Decaη | 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-η | 13C-PCB-31 | 100.00 | 1.55e+08 | 1.05 y | 28:54 | - | 1.00 |
| 229 | Tetrη | 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 | Hexaη | 13C-PCB-128 | 100.00 | 6.82e+07 | 1.27 y | 46:16 | - | 1.00 |
| 232 | Octaη | 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 | - | 0.51 |
| 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 η | Total Mono-PCB | 0.00 | - | - n | - | - | 1.31 |
| 170 | Tot η | Total Di-PCB | 0.00 | - | - n | - | - | 1.21 |
| 171 | Tot η | Total Tri-PCB | 0.00 | - | - n | - | - | 1.10 |

| | | | | | | | | |
|-----|-------|-----------------|--------|----------|--------|-------|---|------|
| 172 | Tot η | Total Tri-PCB | 0.00 | - | - n | - | - | 1.21 |
| 173 | Tot η | Total Tetra-PCB | 0.00 | - | - n | - | - | 1.06 |
| 174 | Tot η | Total Penta-PCB | 0.00 | - | - n | - | - | 1.18 |
| 175 | Tot η | Total Penta-PCB | 0.00 | - | - n | - | - | 1.23 |
| 176 | Tot η | Total Hexa-PCB | 0.00 | - | - n | - | - | 0.88 |
| 177 | Tot η | Total Hexa-PCB | 0.00 | - | - n | - | - | 1.09 |
| 178 | Tot η | Total Hepta-PCB | 0.00 | - | - n | - | - | 1.41 |
| 179 | Tot η | Total Octa-PCB | 0.00 | - | - n | - | - | 0.96 |
| 180 | Tot η | Total Octa-PCB | 0.00 | - | - n | - | - | 1.32 |
| 181 | Tot η | Total Nona-PCB | 0.00 | - | - n | - | - | 1.00 |
| 182 | Tot η | Total Deca-PCB | 50.00 | 2.30e+07 | 1.21 y | 56:38 | - | 1.20 |
| 183 | Monoη | 13C-PCB-1 | 100.00 | 1.53e+08 | 3.37 y | 16:24 | - | 0.86 |
| 184 | Monoη | 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-η | 13C-PCB-19 | 100.00 | 9.46e+07 | 1.07 y | 24:14 | - | 0.53 |
| 189 | Tri-η | 13C-PCB-32 | 100.00 | 1.39e+08 | 1.09 y | 27:06 | - | 0.78 |
| 190 | Tri-η | 13C-PCB-28 | 100.00 | 1.40e+08 | 1.06 y | 29:01 | - | 0.92 |
| 191 | Tri-η | 13C-PCB-37 | 100.00 | 1.20e+08 | 1.07 y | 32:52 | - | 0.79 |
| 192 | Tetrη | 13C-PCB-54 | 100.00 | 1.23e+08 | 0.81 y | 27:55 | - | 0.98 |
| 193 | Tetrη | 13C-PCB-52 | 100.00 | 9.72e+07 | 0.80 y | 31:24 | - | 0.78 |
| 194 | Tetrη | 13C-PCB-47 | 100.00 | 1.02e+08 | 0.79 y | 31:54 | - | 0.82 |
| 195 | Tetrη | 13C-PCB-70 | 100.00 | 1.22e+08 | 0.78 y | 35:25 | - | 0.98 |
| 196 | Tetrη | 13C-PCB-80 | 100.00 | 1.27e+08 | 0.80 y | 35:49 | - | 1.01 |
| 197 | Tetrη | 13C-PCB-81 | 100.00 | 1.12e+08 | 0.79 y | 38:56 | - | 0.89 |
| 198 | Tetη | 13C-PCB-77 | 100.00 | 1.14e+08 | 0.78 y | 39:32 | - | 0.91 |
| 199 | Pentη | 13C-PCB-104 | 100.00 | 8.52e+07 | 1.57 y | 32:34 | - | 1.00 |
| 200 | Pentη | 13C-PCB-95 | 100.00 | 6.27e+07 | 1.59 y | 35:43 | - | 0.74 |
| 201 | Pentη | 13C-PCB-101 | 100.00 | 6.57e+07 | 1.54 y | 37:23 | - | 0.77 |
| 202 | Pentη | 13C-PCB-97 | 100.00 | 5.89e+07 | 1.59 y | 38:42 | - | 0.69 |
| 203 | Pentη | 13C-PCB-123 | 100.00 | 7.37e+07 | 1.61 y | 41:15 | - | 0.87 |
| 204 | Pentη | 13C-PCB-118 | 100.00 | 7.79e+07 | 1.58 y | 41:26 | - | 0.92 |
| 205 | Pentη | 13C-PCB-114 | 100.00 | 9.33e+07 | 1.60 y | 42:06 | - | 1.35 |
| 206 | Pentη | 13C-PCB-105 | 100.00 | 9.17e+07 | 1.60 y | 42:58 | - | 1.32 |
| 207 | Pentη | 13C-PCB-127 | 100.00 | 1.00e+08 | 1.57 y | 43:17 | - | 1.45 |
| 208 | Pentη | 13C-PCB-126 | 100.00 | 9.05e+07 | 1.58 y | 45:12 | - | 1.31 |
| 209 | Hexaη | 13C-PCB-155 | 100.00 | 7.08e+07 | 1.29 y | 36:55 | - | 0.83 |
| 210 | Hexaη | 13C-PCB-153 | 100.00 | 7.92e+07 | 1.29 y | 43:07 | - | 1.14 |
| 211 | Hexaη | 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 | Hexaη | 13C-PCB-159 | 100.00 | 8.48e+07 | 1.27 y | 45:59 | - | 1.22 |
| 214 | Hexaη | 13C-PCB-167 | 100.00 | 9.22e+07 | 1.30 y | 46:40 | - | 1.33 |
| 215 | Hexaη | 13C-PCB-156 | 100.00 | 8.85e+07 | 1.29 y | 47:58 | - | 1.28 |
| 216 | Hexaη | 13C-PCB-157 | 100.00 | 9.20e+07 | 1.29 y | 48:15 | - | 1.33 |
| 217 | Hexaη | 13C-PCB-169 | 100.00 | 8.62e+07 | 1.27 y | 50:19 | - | 1.24 |
| 218 | Heptη | 13C-PCB-188 | 100.00 | 6.40e+07 | 0.46 y | 42:45 | - | 0.92 |
| 219 | Heptη | 13C-PCB-180 | 100.00 | 4.63e+07 | 0.47 y | 49:15 | - | 0.67 |
| 220 | Heptη | 13C-PCB-170 | 100.00 | 3.66e+07 | 0.47 y | 50:40 | - | 0.53 |
| 221 | Heptη | 13C-PCB-189 | 100.00 | 4.78e+07 | 0.47 y | 52:07 | - | 0.69 |
| 222 | Octaη | 13C-PCB-202 | 100.00 | 5.65e+07 | 0.94 y | 48:11 | - | 0.81 |

| | | | | | | | | |
|-----|--------|-------------|--------|----------|--------|-------|---|------|
| 223 | Octaη | 13C-PCB-194 | 100.00 | 5.16e+07 | 0.92 y | 53:36 | - | 0.79 |
| 224 | Nonaη | 13C-PCB-208 | 100.00 | 7.00e+07 | 0.78 y | 52:53 | - | 1.08 |
| 225 | Nonaη | 13C-PCB-206 | 100.00 | 4.23e+07 | 0.78 y | 55:19 | - | 0.65 |
| 226 | Decaη | 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-η | 13C-PCB-31 | 100.00 | 1.52e+08 | 1.05 y | 28:55 | - | 1.00 |
| 229 | Tetraη | 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 | Hexaη | 13C-PCB-128 | 100.00 | 6.93e+07 | 1.27 y | 46:16 | - | 1.00 |
| 232 | Octaη | 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 η | Total Mono-PCB | 0.00 | - | - n | - | - | 1.35 |
| 170 | Tot η | Total Di-PCB | 0.00 | - | - n | - | - | 1.22 |
| 171 | Tot η | Total Tri-PCB | 0.00 | - | - n | - | - | 1.10 |

| | | | | | | | | |
|-----|-------|-----------------|--------|----------|--------|-------|---|------|
| 172 | Tot η | Total Tri-PCB | 0.00 | - | - n | - | - | 1.15 |
| 173 | Tot η | Total Tetra-PCB | 0.00 | - | - n | - | - | 1.06 |
| 174 | Tot η | Total Penta-PCB | 0.00 | - | - n | - | - | 1.18 |
| 175 | Tot η | Total Penta-PCB | 0.00 | - | - n | - | - | 1.23 |
| 176 | Tot η | Total Hexa-PCB | 0.00 | - | - n | - | - | 0.90 |
| 177 | Tot η | Total Hexa-PCB | 0.00 | - | - n | - | - | 1.11 |
| 178 | Tot η | Total Hepta-PCB | 0.00 | - | - n | - | - | 1.41 |
| 179 | Tot η | Total Octa-PCB | 0.00 | - | - n | - | - | 0.99 |
| 180 | Tot η | Total Octa-PCB | 0.00 | - | - n | - | - | 1.32 |
| 181 | Tot η | Total Nona-PCB | 0.00 | - | - n | - | - | 1.02 |
| 182 | Tot η | Total Deca-PCB | 400.00 | 2.00e+08 | 1.19 y | 56:35 | - | 1.17 |
| 183 | Monoη | 13C-PCB-1 | 100.00 | 1.43e+08 | 3.35 y | 16:24 | - | 0.77 |
| 184 | Monoη | 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-η | 13C-PCB-19 | 100.00 | 9.04e+07 | 1.10 y | 24:14 | - | 0.48 |
| 189 | Tri-η | 13C-PCB-32 | 100.00 | 1.43e+08 | 1.10 y | 27:06 | - | 0.77 |
| 190 | Tri-η | 13C-PCB-28 | 100.00 | 1.36e+08 | 1.05 y | 29:02 | - | 0.89 |
| 191 | Tri-η | 13C-PCB-37 | 100.00 | 1.26e+08 | 1.06 y | 32:52 | - | 0.82 |
| 192 | Tetrη | 13C-PCB-54 | 100.00 | 1.26e+08 | 0.81 y | 27:55 | - | 0.97 |
| 193 | Tetrη | 13C-PCB-52 | 100.00 | 9.82e+07 | 0.78 y | 31:24 | - | 0.76 |
| 194 | Tetrη | 13C-PCB-47 | 100.00 | 1.05e+08 | 0.77 y | 31:55 | - | 0.81 |
| 195 | Tetrη | 13C-PCB-70 | 100.00 | 1.29e+08 | 0.79 y | 35:25 | - | 1.00 |
| 196 | Tetrη | 13C-PCB-80 | 100.00 | 1.35e+08 | 0.80 y | 35:50 | - | 1.04 |
| 197 | Tetrη | 13C-PCB-81 | 100.00 | 1.20e+08 | 0.78 y | 38:56 | - | 0.93 |
| 198 | Tetrη | 13C-PCB-77 | 100.00 | 1.27e+08 | 0.80 y | 39:32 | - | 0.98 |
| 199 | Pentη | 13C-PCB-104 | 100.00 | 8.83e+07 | 1.55 y | 32:34 | - | 1.00 |
| 200 | Pentη | 13C-PCB-95 | 100.00 | 6.77e+07 | 1.62 y | 35:43 | - | 0.77 |
| 201 | Pentη | 13C-PCB-101 | 100.00 | 7.03e+07 | 1.56 y | 37:23 | - | 0.80 |
| 202 | Pentη | 13C-PCB-97 | 100.00 | 6.24e+07 | 1.61 y | 38:42 | - | 0.71 |
| 203 | Pentη | 13C-PCB-123 | 100.00 | 7.82e+07 | 1.58 y | 41:16 | - | 0.88 |
| 204 | Pentη | 13C-PCB-118 | 100.00 | 8.64e+07 | 1.60 y | 41:26 | - | 0.98 |
| 205 | Pentη | 13C-PCB-114 | 100.00 | 1.01e+08 | 1.61 y | 42:06 | - | 1.37 |
| 206 | Pentη | 13C-PCB-105 | 100.00 | 1.02e+08 | 1.58 y | 42:58 | - | 1.38 |
| 207 | Pentη | 13C-PCB-127 | 100.00 | 1.09e+08 | 1.60 y | 43:18 | - | 1.48 |
| 208 | Pentη | 13C-PCB-126 | 100.00 | 9.62e+07 | 1.57 y | 45:12 | - | 1.30 |
| 209 | Hexaη | 13C-PCB-155 | 100.00 | 7.37e+07 | 1.30 y | 36:56 | - | 0.83 |
| 210 | Hexaη | 13C-PCB-153 | 100.00 | 8.26e+07 | 1.29 y | 43:07 | - | 1.12 |
| 211 | Hexaη | 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 | Hexaη | 13C-PCB-159 | 100.00 | 9.15e+07 | 1.26 y | 46:00 | - | 1.24 |
| 214 | Hexaη | 13C-PCB-167 | 100.00 | 1.01e+08 | 1.25 y | 46:40 | - | 1.37 |
| 215 | Hexaη | 13C-PCB-156 | 100.00 | 9.58e+07 | 1.27 y | 47:59 | - | 1.30 |
| 216 | Hexaη | 13C-PCB-157 | 100.00 | 1.01e+08 | 1.31 y | 48:15 | - | 1.36 |
| 217 | Hexaη | 13C-PCB-169 | 100.00 | 9.47e+07 | 1.29 y | 50:19 | - | 1.28 |
| 218 | Heptη | 13C-PCB-188 | 100.00 | 6.72e+07 | 0.46 y | 42:45 | - | 0.91 |
| 219 | Heptη | 13C-PCB-180 | 100.00 | 4.95e+07 | 0.46 y | 49:15 | - | 0.67 |
| 220 | Heptη | 13C-PCB-170 | 100.00 | 3.88e+07 | 0.47 y | 50:41 | - | 0.53 |
| 221 | Heptη | 13C-PCB-189 | 100.00 | 5.10e+07 | 0.48 y | 52:07 | - | 0.69 |
| 222 | Octaη | 13C-PCB-202 | 100.00 | 5.93e+07 | 0.90 y | 48:11 | - | 0.80 |

| | | | | | | | | |
|-----|-------|-------------|--------|----------|--------|-------|---|------|
| 223 | Octaη | 13C-PCB-194 | 100.00 | 5.48e+07 | 0.91 y | 53:37 | - | 0.80 |
| 224 | Nonaη | 13C-PCB-208 | 100.00 | 7.31e+07 | 0.78 y | 52:53 | - | 1.07 |
| 225 | Nonaη | 13C-PCB-206 | 100.00 | 4.59e+07 | 0.80 y | 55:18 | - | 0.67 |
| 226 | Decaη | 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-η | 13C-PCB-31 | 100.00 | 1.53e+08 | 1.05 y | 28:55 | - | 1.00 |
| 229 | Tetrη | 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 | Hexaη | 13C-PCB-128 | 100.00 | 7.38e+07 | 1.22 y | 46:17 | - | 1.00 |
| 232 | Octaη | 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 η | Total Mono-PCB | 0.00 | - | - n | - | - | 1.36 |
| 170 | Tot η | Total Di-PCB | 0.00 | - | - n | - | - | 1.25 |
| 171 | Tot η | Total Tri-PCB | 0.00 | - | - n | - | - | 1.15 |

| | | | | | | | | | | |
|-----|-------|---|-----------------|--------|----------|------|---|-------|---|------|
| 172 | Tot | η | Total Tri-PCB | 0.00 | - | - | n | - | - | 1.12 |
| 173 | Tot | η | Total Tetra-PCB | 0.00 | - | - | n | - | - | 1.09 |
| 174 | Tot | η | Total Penta-PCB | 0.00 | - | - | n | - | - | 1.23 |
| 175 | Tot | η | Total Penta-PCB | 0.00 | - | - | n | - | - | 1.25 |
| 176 | Tot | η | Total Hexa-PCB | 0.00 | - | - | n | - | - | 0.96 |
| 177 | Tot | η | Total Hexa-PCB | 0.00 | - | - | n | - | - | 1.14 |
| 178 | Tot | η | Total Hepta-PCB | 0.00 | - | - | n | - | - | 1.46 |
| 179 | Tot | η | Total Octa-PCB | 0.00 | - | - | n | - | - | 1.03 |
| 180 | Tot | η | Total Octa-PCB | 0.00 | - | - | n | - | - | 1.36 |
| 181 | Tot | η | Total Nona-PCB | 0.00 | - | - | n | - | - | 1.03 |
| 182 | Tot | η | Total Deca-PCB | 750.00 | 3.89e+08 | 1.19 | y | 56:40 | - | 1.22 |
| 183 | Mono | η | 13C-PCB-1 | 100.00 | 1.51e+08 | 3.37 | y | 16:24 | - | 0.77 |
| 184 | Mono | η | 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-η | | 13C-PCB-19 | 100.00 | 9.33e+07 | 1.09 | y | 24:14 | - | 0.48 |
| 189 | Tri-η | | 13C-PCB-32 | 100.00 | 1.45e+08 | 1.09 | y | 27:05 | - | 0.74 |
| 190 | Tri-η | | 13C-PCB-28 | 100.00 | 1.37e+08 | 1.03 | y | 29:01 | - | 1.02 |
| 191 | Tri-η | | 13C-PCB-37 | 100.00 | 1.25e+08 | 1.07 | y | 32:52 | - | 0.93 |
| 192 | Tetrη | | 13C-PCB-54 | 100.00 | 1.30e+08 | 0.80 | y | 27:56 | - | 0.98 |
| 193 | Tetrη | | 13C-PCB-52 | 100.00 | 9.99e+07 | 0.80 | y | 31:25 | - | 0.75 |
| 194 | Tetrη | | 13C-PCB-47 | 100.00 | 1.04e+08 | 0.77 | y | 31:55 | - | 0.78 |
| 195 | Tetrη | | 13C-PCB-70 | 100.00 | 1.35e+08 | 0.78 | y | 35:24 | - | 1.02 |
| 196 | Tetrη | | 13C-PCB-80 | 100.00 | 1.39e+08 | 0.80 | y | 35:49 | - | 1.05 |
| 197 | Tetrη | | 13C-PCB-81 | 100.00 | 1.30e+08 | 0.79 | y | 38:56 | - | 0.98 |
| 198 | Tetrη | | 13C-PCB-77 | 100.00 | 1.29e+08 | 0.80 | y | 39:32 | - | 0.97 |
| 199 | Pentη | | 13C-PCB-104 | 100.00 | 8.83e+07 | 1.59 | y | 32:34 | - | 0.96 |
| 200 | Pentη | | 13C-PCB-95 | 100.00 | 6.79e+07 | 1.55 | y | 35:43 | - | 0.74 |
| 201 | Pentη | | 13C-PCB-101 | 100.00 | 7.25e+07 | 1.55 | y | 37:23 | - | 0.79 |
| 202 | Pentη | | 13C-PCB-97 | 100.00 | 6.44e+07 | 1.57 | y | 38:42 | - | 0.70 |
| 203 | Pentη | | 13C-PCB-123 | 100.00 | 8.18e+07 | 1.58 | y | 41:16 | - | 0.89 |
| 204 | Pentη | | 13C-PCB-118 | 100.00 | 9.11e+07 | 1.59 | y | 41:27 | - | 0.99 |
| 205 | Pentη | | 13C-PCB-114 | 100.00 | 1.10e+08 | 1.61 | y | 42:06 | - | 1.45 |
| 206 | Pentη | | 13C-PCB-105 | 100.00 | 1.10e+08 | 1.59 | y | 42:58 | - | 1.45 |
| 207 | Pentη | | 13C-PCB-127 | 100.00 | 1.18e+08 | 1.61 | y | 43:18 | - | 1.54 |
| 208 | Pentη | | 13C-PCB-126 | 100.00 | 1.02e+08 | 1.57 | y | 45:13 | - | 1.34 |
| 209 | Hexaη | | 13C-PCB-155 | 100.00 | 7.27e+07 | 1.27 | y | 36:56 | - | 0.79 |
| 210 | Hexaη | | 13C-PCB-153 | 100.00 | 8.79e+07 | 1.29 | y | 43:07 | - | 1.15 |
| 211 | Hexaη | | 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 | Hexaη | | 13C-PCB-159 | 100.00 | 9.51e+07 | 1.28 | y | 45:59 | - | 1.25 |
| 214 | Hexaη | | 13C-PCB-167 | 100.00 | 1.01e+08 | 1.26 | y | 46:41 | - | 1.33 |
| 215 | Hexaη | | 13C-PCB-156 | 100.00 | 1.01e+08 | 1.27 | y | 47:59 | - | 1.32 |
| 216 | Hexaη | | 13C-PCB-157 | 100.00 | 1.05e+08 | 1.31 | y | 48:15 | - | 1.38 |
| 217 | Hexaη | | 13C-PCB-169 | 100.00 | 9.82e+07 | 1.28 | y | 50:20 | - | 1.29 |
| 218 | Heptη | | 13C-PCB-188 | 100.00 | 6.91e+07 | 0.47 | y | 42:45 | - | 0.91 |
| 219 | Heptη | | 13C-PCB-180 | 100.00 | 4.94e+07 | 0.48 | y | 49:16 | - | 0.65 |
| 220 | Heptη | | 13C-PCB-170 | 100.00 | 3.94e+07 | 0.46 | y | 50:41 | - | 0.52 |
| 221 | Heptη | | 13C-PCB-189 | 100.00 | 5.34e+07 | 0.46 | y | 52:08 | - | 0.70 |
| 222 | Octaη | | 13C-PCB-202 | 100.00 | 5.91e+07 | 0.90 | y | 48:12 | - | 0.78 |

| | | | | | | | | |
|-----|--------|-------------|--------|----------|--------|-------|---|------|
| 223 | Octaη | 13C-PCB-194 | 100.00 | 5.78e+07 | 0.93 y | 53:39 | - | 0.79 |
| 224 | Nonaη | 13C-PCB-208 | 100.00 | 7.83e+07 | 0.77 y | 52:54 | - | 1.07 |
| 225 | Nonaη | 13C-PCB-206 | 100.00 | 4.57e+07 | 0.77 y | 55:21 | - | 0.62 |
| 226 | Decaη | 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-η | 13C-PCB-31 | 100.00 | 1.34e+08 | 1.04 y | 28:55 | - | 1.00 |
| 229 | Tetraη | 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 | Hexaη | 13C-PCB-128 | 100.00 | 7.63e+07 | 1.27 y | 46:17 | - | 1.00 |
| 232 | Octaη | 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 |

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 | QC | PASS | CONC. | | ANALYTES | ION | QC | PASS | CONC. | |
|--------------|--------|-----------|------|---------|-----------|-----------------|--------|-----------|------|---------|-----------|
| | ABUND. | LIMITS | | FOUND | RANGE | | ABUND. | LIMITS | | FOUND | RANGE |
| | RATIO | | | (ng/mL) | | RATIO | | | | (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 | QC | PASS | CONC. | CONC. |
|-------------|--------|-----------|------|-------|-----------|
| | ABUND. | LIMITS | | FOUND | RANGE |
| | RATIO | | | | (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. CONC. FOUND | RANGE (ng/mL) | LABELED IS | ION ABUND. RATIO | QC LIMITS | PASS | CONC. CONC. FOUND | RANGE (ng/mL) |
|-------------|------------------------|--------------|------|-------------------------|------------------|-------------|------------------------|--------------|------|-------------------------|------------------|
| 13C-PCB-1 | 3.37 | 2.66-3.60 | y | 98.7 | 50.0-145 | 13C-PCB-169 | 1.27 | 1.05-1.43 | y | 96.7 | 50 - 145 |
| 13C-PCB-3 | 3.41 | 2.66-3.60 | y | 94.8 | 50.0-145 | 13C-PCB-188 | 0.46 | 0.38-0.52 | y | 100.6 | 50 - 145 |
| 13C-PCB-4 | 1.58 | 1.33-1.79 | y | 99.7 | 50.0-145 | 13C-PCB-180 | 0.47 | 0.38-0.52 | y | 97.7 | 50 - 145 |
| 13C-PCB-9 | 1.59 | 1.33-1.79 | y | 99.2 | 50.0-145 | 13C-PCB-170 | 0.47 | 0.38-0.52 | y | 97.2 | 50 - 145 |
| 13C-PCB-11 | 1.57 | 1.33-1.79 | y | 98.2 | 50.0-145 | 13C-PCB-189 | 0.47 | 0.38-0.52 | y | 96.3 | 50 - 145 |
| 13C-PCB-19 | 1.07 | 0.88-1.20 | y | 99.8 | 50.0-145 | 13C-PCB-202 | 0.94 | 0.76-1.02 | y | 97.2 | 50 - 145 |
| 13C-PCB-32 | 1.09 | 0.88-1.20 | y | 98.2 | 50.0-145 | 13C-PCB-194 | 0.92 | 0.76-1.02 | y | 99.4 | 50 - 145 |
| 13C-PCB-28 | 1.06 | 0.88-1.20 | y | 98.7 | 50.0-145 | 13C-PCB-208 | 0.78 | 0.65-0.89 | y | 99.5 | 50 - 145 |
| 13C-PCB-37 | 1.07 | 0.88-1.20 | y | 94.4 | 50.0-145 | 13C-PCB-206 | 0.78 | 0.65-0.89 | y | 100.0 | 50 - 145 |
| 13C-PCB-54 | 0.81 | 0.65-0.89 | y | 100.9 | 50.0-145 | 13C-PCB-209 | 1.23 | 0.99-1.33 | y | 96.9 | 50 - 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 | CRS vs. RS | | | | | |
| 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-79 | 0.79 | 0.65-0.89 | y | 98.3 | 75 - 125 |
| 13C-PCB-118 | 1.58 | 1.32-1.78 | y | 95.4 | 50.0-145 | 13C-PCB-178 | 0.46 | 0.38-0.52 | y | 101.1 | 75 - 125 |
| 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 | | | | | | |

Analyst: DMJ

Date: 6/24/14

Client ID: PCB CS3 14F1302
Lab ID: ST140623E2-4

Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49 ConCal: NA
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 | 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-52/69 | 1.24e+08 | 0.76 | y | 1.28 | 31:27 | 1.001 | 0.996-1.006 | 99.8332 |
| PCB-2 | 9.45e+07 | 3.01 | y | 1.18 | 18:41 | 0.989 | 0.984-0.994 | 51.8481 | PCB-73 | 6.71e+07 | 0.78 | y | 1.35 | 31:34 | 1.005 | 1.000-1.010 | 51.0170 |
| PCB-3 | 1.13e+08 | 3.01 | y | 1.43 | 18:55 | 1.001 | 0.996-1.006 | 51.3028 | PCB-43/49 | 9.43e+07 | 0.76 | y | 0.99 | 31:44 | 1.010 | 1.005-1.015 | 97.5221 |
| PCB-4/10 | 3.27e+08 | 1.65 | y | 1.57 | 20:14 | 1.002 | 0.997-1.007 | 200.078 | PCB-47 | 5.35e+07 | 0.76 | y | 1.06 | 31:55 | 1.001 | 0.996-1.006 | 49.2976 |
| PCB-7/9 | 3.82e+08 | 1.65 | y | 1.21 | 21:57 | 0.870 | 0.866-0.874 | 199.310 | PCB-48/75 | 1.20e+08 | 0.77 | y | 1.23 | 32:02 | 1.004 | 0.999-1.009 | 95.5705 |
| PCB-6 | 2.07e+08 | 1.66 | y | 1.30 | 22:35 | 0.895 | 0.890-0.899 | 100.033 | PCB-65 | 6.30e+07 | 0.76 | y | 1.22 | 32:19 | 1.013 | 1.008-1.018 | 50.1860 |
| PCB-5/8 | 3.65e+08 | 1.64 | y | 1.15 | 23:00 | 0.912 | 0.907-0.917 | 200.175 | PCB-62 | 5.58e+07 | 0.76 | y | 1.22 | 32:26 | 1.016 | 1.011-1.021 | 44.5973 |
| PCB-14 | 1.87e+08 | 1.66 | y | 1.11 | 24:04 | 0.954 | 0.949-0.959 | 102.750 | PCB-44 | 4.12e+07 | 0.77 | y | 0.86 | 32:43 | 1.026 | 1.021-1.031 | 46.6811 |
| PCB-11 | 1.81e+08 | 1.65 | y | 1.09 | 25:14 | 1.000 | 0.995-1.005 | 101.723 | PCB-42/59 | 1.11e+08 | 0.76 | y | 1.14 | 32:57 | 1.033 | 1.028-1.038 | 95.2591 |
| PCB-12/13 | 3.92e+08 | 1.65 | y | 1.19 | 25:38 | 1.016 | 1.011-1.021 | 200.431 | PCB-41/64/71/72 | 2.33e+08 | 0.77 | y | 1.21 | 33:32 | 1.051 | 1.046-1.056 | 187.913 |
| PCB-15 | 2.11e+08 | 1.66 | y | 1.28 | 25:56 | 1.028 | 1.023-1.033 | 100.196 | PCB-68 | 6.63e+07 | 0.76 | y | 1.35 | 33:47 | 1.059 | 1.054-1.064 | 47.9757 |
| PCB-19 | 4.92e+07 | 1.05 | y | 1.04 | 24:15 | 1.001 | 0.996-1.006 | 49.8495 | PCB-40 | 3.48e+07 | 0.77 | y | 0.70 | 34:00 | 1.066 | 1.061-1.071 | 48.4517 |
| PCB-30 | 7.99e+07 | 1.06 | y | 1.71 | 25:07 | 1.037 | 1.032-1.042 | 49.3635 | PCB-57 | 6.06e+07 | 0.76 | y | 0.98 | 34:22 | 0.970 | 0.965-0.975 | 50.6920 |
| PCB-18 | 5.58e+07 | 1.05 | y | 0.78 | 25:51 | 0.954 | 0.949-0.959 | 51.2756 | PCB-67 | 6.65e+07 | 0.76 | y | 1.11 | 34:40 | 0.979 | 0.974-0.984 | 49.1755 |
| PCB-17 | 6.48e+07 | 1.05 | y | 0.92 | 26:02 | 0.961 | 0.956-0.966 | 50.4844 | PCB-58 | 5.67e+07 | 0.79 | y | 0.93 | 34:47 | 0.982 | 0.977-0.987 | 50.1141 |
| PCB-24/27 | 1.68e+08 | 1.05 | y | 1.19 | 26:36 | 0.982 | 0.977-0.987 | 101.312 | PCB-63 | 5.70e+07 | 0.76 | y | 0.95 | 34:56 | 0.987 | 0.982-0.992 | 48.9977 |
| PCB-16/32 | 1.31e+08 | 1.06 | y | 0.94 | 27:06 | 1.000 | 0.995-1.005 | 100.158 | PCB-74 | 7.34e+07 | 0.77 | y | 1.24 | 35:13 | 0.995 | 0.990-1.000 | 48.3011 |
| PCB-34 | 7.59e+07 | 1.03 | y | 1.14 | 27:52 | 0.960 | 0.955-0.965 | 47.8540 | PCB-61/70 | 1.16e+08 | 0.77 | y | 0.95 | 35:24 | 1.000 | 0.995-1.005 | 99.8888 |
| PCB-23 | 8.55e+07 | 1.06 | y | 1.28 | 27:58 | 0.964 | 0.959-0.969 | 47.9079 | PCB-76/66 | 1.26e+08 | 0.77 | y | 1.04 | 35:37 | 1.006 | 1.001-1.011 | 99.0361 |
| PCB-29 | 7.42e+07 | 1.04 | y | 1.08 | 28:13 | 0.972 | 0.967-0.977 | 49.2142 | PCB-80 | 7.72e+07 | 0.77 | y | 1.19 | 35:50 | 1.001 | 0.996-1.006 | 51.1089 |
| PCB-26 | 8.24e+07 | 1.04 | y | 1.21 | 28:25 | 0.975 | 0.974-0.984 | 48.9217 | PCB-55 | 6.84e+07 | 0.77 | y | 1.04 | 36:10 | 1.010 | 1.005-1.015 | 51.7926 |
| PCB-25 | 8.85e+07 | 1.06 | y | 1.26 | 28:34 | 0.984 | 0.979-0.989 | 50.2567 | PCB-56/60 | 1.27e+08 | 0.77 | y | 1.01 | 36:40 | 1.024 | 1.019-1.029 | 98.8614 |
| PCB-31 | 8.64e+07 | 1.02 | y | 1.28 | 28:56 | 0.997 | 0.992-1.002 | 48.1924 | PCB-79 | 6.79e+07 | 0.78 | y | 1.08 | 37:43 | 1.053 | 1.048-1.058 | 49.6313 |
| PCB-28 | 1.19e+08 | 1.04 | y | 1.71 | 29:02 | 1.000 | 0.995-1.005 | 49.7990 | PCB-78 | 6.97e+07 | 0.77 | y | 1.27 | 38:25 | 0.987 | 0.982-0.992 | 49.0861 |
| PCB-20/21/33 | 2.26e+08 | 1.03 | y | 1.08 | 29:39 | 1.022 | 1.017-1.027 | 149.601 | PCB-81 | 7.20e+07 | 0.78 | y | 1.33 | 38:57 | 1.000 | 0.995-1.005 | 48.4278 |
| PCB-22 | 8.60e+07 | 1.04 | y | 1.21 | 30:05 | 1.037 | 1.032-1.042 | 50.9455 | PCB-77 | 6.19e+07 | 0.79 | y | 1.10 | 39:33 | 1.000 | 0.995-1.005 | 49.2464 |
| PCB-36 | 7.12e+07 | 1.03 | y | 1.14 | 30:40 | 0.933 | 0.928-0.938 | 51.8469 | PCB-104 | 5.11e+07 | 1.57 | y | 1.18 | 32:35 | 1.001 | 0.996-1.006 | 50.6145 |
| PCB-39 | 7.20e+07 | 1.02 | y | 1.12 | 31:09 | 0.948 | 0.943-0.953 | 53.6838 | PCB-96 | 4.80e+07 | 1.56 | y | 1.14 | 33:50 | 1.039 | 1.034-1.044 | 49.4868 |
| PCB-38 | 7.37e+07 | 1.03 | y | 1.20 | 31:55 | 0.971 | 0.966-0.976 | 51.1156 | PCB-103 | 3.98e+07 | 1.56 | y | 0.96 | 34:22 | 1.055 | 1.050-1.060 | 48.8016 |
| PCB-35 | 7.10e+07 | 1.03 | y | 1.23 | 32:26 | 0.987 | 0.982-0.992 | 47.9376 | PCB-100 | 3.93e+07 | 1.58 | y | 0.94 | 34:42 | 1.066 | 1.061-1.071 | 49.1824 |
| PCB-37 | 7.16e+07 | 1.02 | y | 1.23 | 32:53 | 1.000 | 0.995-1.005 | 48.3854 | PCB-94 | 3.18e+07 | 1.55 | y | 1.06 | 35:11 | 0.985 | 0.980-0.990 | 48.0705 |
| PCB-54 | 6.73e+07 | 0.78 | y | 1.10 | 27:57 | 1.001 | 0.996-1.006 | 49.6981 | PCB-95/98/102 | 1.14e+08 | 1.55 | y | 1.22 | 35:42 | 1.000 | 0.995-1.005 | 149.073 |
| PCB-50 | 5.38e+07 | 0.77 | y | 0.88 | 29:05 | 1.042 | 1.037-1.047 | 49.7280 | PCB-93 | 2.65e+07 | 1.58 | y | 0.84 | 35:48 | 1.002 | 0.997-1.007 | 50.1439 |
| PCB-53 | 5.23e+07 | 0.75 | y | 1.06 | 29:44 | 0.947 | 0.942-0.952 | 50.5493 | PCB-88/91 | 7.03e+07 | 1.58 | y | 1.12 | 36:05 | 1.010 | 1.005-1.015 | 100.529 |
| PCB-51 | 4.77e+07 | 0.77 | y | 0.99 | 30:04 | 0.957 | 0.952-0.962 | 49.5846 | PCB-121 | 5.08e+07 | 1.60 | y | 1.62 | 36:12 | 1.014 | 1.009-1.019 | 50.2163 |
| PCB-45 | 4.32e+07 | 0.77 | y | 0.86 | 30:30 | 0.971 | 0.966-0.976 | 51.4204 | PCB-84/92 | 6.82e+07 | 1.56 | y | 1.05 | 37:01 | 0.990 | 0.985-0.995 | 99.2072 |
| PCB-46 | 4.05e+07 | 0.76 | y | 0.85 | 30:59 | 0.986 | 0.981-0.991 | 49.2764 | PCB-89 | 3.73e+07 | 1.58 | y | 1.13 | 37:14 | 0.996 | 0.991-1.001 | 50.2710 |

Integrations by _____ Reviewed by _____
Analyst: *Dms*
Date: *6/24/14*

RL: MONO, TRI - DECA: _____
RL: DI : _____

Client ID: PCB CS3 14F1302
Lab ID: ST140623E2-4

Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49 ConCal: NA
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 | 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-133/142 | 6.32e+07 | 1.24 | y | 0.82 | 42:20 | 0.982 | 0.977-0.987 | 97.4225 |
| PCB-113 | 4.88e+07 | 1.57 | y | 1.41 | 37:39 | 1.007 | 1.002-1.012 | 52.6770 | PCB-131 | 3.53e+07 | 1.23 | y | 0.91 | 42:30 | 0.986 | 0.981-0.991 | 49.1208 |
| PCB-99 | 4.19e+07 | 1.60 | y | 1.34 | 37:44 | 1.009 | 1.004-1.014 | 47.7406 | PCB-146/165 | 9.72e+07 | 1.25 | y | 1.25 | 42:43 | 0.991 | 0.986-0.996 | 98.5088 |
| PCB-119 | 4.49e+07 | 1.56 | y | 1.53 | 38:12 | 0.987 | 0.982-0.992 | 49.7646 | PCB-132/161 | 8.58e+07 | 1.31 | y | 1.10 | 42:58 | 0.997 | 0.992-1.002 | 98.0024 |
| PCB-108/112 | 7.56e+07 | 1.58 | y | 1.28 | 38:21 | 0.991 | 0.986-0.996 | 100.241 | PCB-153 | 4.86e+07 | 1.16 | y | 1.25 | 43:08 | 1.000 | 0.995-1.005 | 49.1545 |
| PCB-83 | 4.40e+07 | 1.57 | y | 1.52 | 38:31 | 0.995 | 0.990-1.000 | 49.2175 | PCB-168 | 5.75e+07 | 1.25 | y | 1.45 | 43:21 | 1.006 | 1.001-1.011 | 50.0689 |
| PCB-97 | 3.44e+07 | 1.55 | y | 1.18 | 38:42 | 1.000 | 0.995-1.005 | 49.3584 | PCB-141 | 3.94e+07 | 1.24 | y | 1.09 | 43:52 | 1.000 | 0.995-1.005 | 48.7397 |
| PCB-86 | 2.35e+07 | 1.55 | y | 0.84 | 38:51 | 1.004 | 0.999-1.009 | 47.2868 | PCB-137 | 3.90e+07 | 1.23 | y | 1.06 | 44:15 | 1.009 | 1.004-1.014 | 49.2894 |
| B-87/117/125 | 1.40e+08 | 1.62 | y | 1.55 | 38:58 | 1.007 | 1.002-1.012 | 153.661 | PCB-130 | 3.61e+07 | 1.23 | y | 0.96 | 44:21 | 1.011 | 1.006-1.016 | 50.1859 |
| PCB-111/115 | 9.49e+07 | 1.51 | y | 1.63 | 39:08 | 1.011 | 1.006-1.016 | 98.7316 | PCB-138/163/164 | 1.47e+08 | 1.24 | y | 1.29 | 44:44 | 1.001 | 0.996-1.006 | 147.764 |
| PCB-85/116 | 7.71e+07 | 1.58 | y | 1.30 | 39:16 | 1.015 | 1.010-1.020 | 100.601 | PCB-158/160 | 1.03e+08 | 1.23 | y | 1.34 | 44:59 | 1.006 | 1.001-1.011 | 99.9483 |
| PCB-120 | 4.81e+07 | 1.59 | y | 1.68 | 39:30 | 1.021 | 1.016-1.026 | 48.6800 | PCB-129 | 3.23e+07 | 1.24 | y | 0.85 | 45:13 | 1.012 | 1.007-1.017 | 49.1140 |
| PCB-110 | 4.58e+07 | 1.57 | y | 1.56 | 39:39 | 1.025 | 1.020-1.030 | 50.0059 | PCB-166 | 4.98e+07 | 1.24 | y | 1.19 | 45:41 | 0.993 | 0.988-0.998 | 49.5492 |
| PCB-82 | 2.78e+07 | 1.55 | y | 0.76 | 40:17 | 0.976 | 0.971-0.981 | 49.7616 | PCB-159 | 4.70e+07 | 1.23 | y | 1.11 | 46:01 | 1.001 | 0.996-1.006 | 49.8539 |
| PCB-124 | 5.28e+07 | 1.58 | y | 1.47 | 40:57 | 0.993 | 0.988-0.998 | 48.7175 | PCB-128/162 | 8.65e+07 | 1.23 | y | 1.05 | 46:18 | 1.007 | 1.002-1.012 | 97.4214 |
| PCB-107/109 | 9.93e+07 | 1.59 | y | 1.32 | 41:05 | 0.996 | 0.991-1.001 | 102.042 | PCB-167 | 5.55e+07 | 1.22 | y | 1.20 | 46:41 | 1.000 | 0.995-1.005 | 50.1954 |
| PCB-123 | 4.35e+07 | 1.59 | y | 1.17 | 41:17 | 1.001 | 0.996-1.006 | 50.5524 | PCB-156 | 5.05e+07 | 1.25 | y | 1.14 | 48:00 | 1.001 | 0.996-1.006 | 50.3349 |
| - PCB-106/118 | 9.15e+07 | 1.59 | y | 1.17 | 41:28 | 1.001 | 0.996-1.006 | 100.161 | PCB-157 | 5.18e+07 | 1.24 | y | 1.16 | 48:16 | 1.000 | 0.995-1.005 | 48.3867 |
| - PCB-114 | 6.12e+07 | 1.65 | y | 1.30 | 42:07 | 1.000 | 0.995-1.005 | 50.6258 | PCB-169 | 4.66e+07 | 1.27 | y | 1.12 | 50:20 | 1.000 | 0.995-1.005 | 48.3941 |
| PCB-122 | 5.19e+07 | 1.66 | y | 1.12 | 42:15 | 1.004 | 0.999-1.009 | 49.6469 | PCB-188 | 4.99e+07 | 1.05 | y | 1.58 | 42:46 | 1.001 | 0.996-1.006 | 49.3061 |
| PCB-105 | 5.88e+07 | 1.64 | y | 1.30 | 42:59 | 1.000 | 0.995-1.005 | 49.4039 | PCB-184 | 5.13e+07 | 1.06 | y | 1.63 | 43:13 | 1.011 | 1.006-1.016 | 49.1029 |
| PCB-127 | 6.36e+07 | 1.67 | y | 1.33 | 43:19 | 1.001 | 0.996-1.006 | 47.5787 | PCB-179 | 4.15e+07 | 1.06 | y | 1.30 | 44:00 | 1.029 | 1.024-1.034 | 49.7059 |
| PCB-126 | 5.32e+07 | 1.63 | y | 1.18 | 45:13 | 1.000 | 0.995-1.005 | 49.7195 | PCB-176 | 4.68e+07 | 1.04 | y | 1.48 | 44:28 | 1.040 | 1.035-1.045 | 49.4886 |
| PCB-155 | 3.92e+07 | 1.27 | y | 1.11 | 36:57 | 1.001 | 0.966-1.006 | 49.6608 | PCB-186 | 4.64e+07 | 1.05 | y | 1.45 | 45:05 | 1.055 | 1.050-1.060 | 49.8177 |
| PCB-150 | 3.54e+07 | 1.29 | y | 1.00 | 38:13 | 1.035 | 1.030-1.040 | 50.0537 | PCB-178 | 3.27e+07 | 1.05 | y | 1.03 | 45:34 | 1.066 | 1.061-1.071 | 49.3595 |
| PCB-152 | 3.90e+07 | 1.30 | y | 1.12 | 38:42 | 1.048 | 1.043-1.053 | 49.3510 | PCB-175 | 3.22e+07 | 1.05 | y | 1.01 | 45:55 | 1.074 | 1.069-1.079 | 49.6213 |
| PCB-145 | 4.21e+07 | 1.28 | y | 1.20 | 39:08 | 1.060 | 1.055-1.065 | 49.5203 | PCB-182/187 | 7.77e+07 | 1.05 | y | 1.25 | 46:05 | 1.078 | 1.073-1.083 | 96.9439 |
| PCB-136 | 4.09e+07 | 1.29 | y | 1.18 | 39:28 | 1.069 | 1.064-1.074 | 48.9891 | PCB-183 | 3.68e+07 | 1.05 | y | 1.21 | 46:24 | 1.086 | 1.081-1.091 | 47.6012 |
| PCB-148 | 2.62e+07 | 1.30 | y | 0.74 | 39:33 | 1.071 | 1.066-1.076 | 49.6483 | PCB-185 | 4.12e+07 | 1.07 | y | 1.80 | 47:04 | 0.956 | 0.951-0.961 | 49.3457 |
| PCB-154 | 2.94e+07 | 1.28 | y | 0.86 | 40:03 | 1.085 | 1.080-1.090 | 48.3589 | PCB-174 | 3.30e+07 | 1.02 | y | 1.38 | 47:26 | 0.963 | 0.958-0.968 | 51.6599 |
| PCB-151 | 2.53e+07 | 1.29 | y | 0.75 | 40:42 | 1.102 | 1.097-1.107 | 47.8747 | PCB-181 | 3.14e+07 | 1.06 | y | 1.38 | 47:33 | 0.965 | 0.960-0.970 | 49.1713 |
| PCB-135 | 2.73e+07 | 1.26 | y | 0.79 | 40:55 | 1.108 | 1.103-1.113 | 48.6888 | PCB-177 | 2.91e+07 | 1.05 | y | 1.26 | 47:42 | 0.968 | 0.963-0.973 | 50.0451 |
| PCB-144 | 2.52e+07 | 1.30 | y | 0.76 | 41:02 | 1.111 | 1.105-1.117 | 46.6300 | PCB-171 | 3.69e+07 | 1.07 | y | 1.58 | 48:00 | 0.975 | 0.970-0.980 | 50.3499 |
| PCB-147 | 2.80e+07 | 1.30 | y | 0.82 | 41:09 | 1.115 | 1.109-1.121 | 48.1949 | PCB-173 | 2.61e+07 | 1.04 | y | 1.11 | 48:26 | 0.983 | 0.978-0.988 | 50.8218 |
| PCB-139/149 | 5.22e+07 | 1.28 | y | 0.76 | 41:25 | 1.122 | 1.116-1.128 | 96.7904 | PCB-172 | 3.80e+07 | 1.07 | y | 1.63 | 48:53 | 0.992 | 0.987-0.997 | 50.2115 |
| - PCB-140 | 2.47e+07 | 1.27 | y | 0.72 | 41:36 | 1.127 | 1.121-1.133 | 48.2707 | PCB-192 | 4.11e+07 | 1.06 | y | 1.74 | 49:04 | 0.996 | 0.991-1.001 | 51.0155 |
| - PCB-134/143 | 7.05e+07 | 1.25 | y | 0.92 | 42:02 | 0.975 | 0.970-0.980 | 97.1084 | PCB-180 | 3.12e+07 | 1.05 | y | 1.34 | 49:17 | 1.000 | 0.995-1.005 | 50.1142 |

Integrations

by

RL: MONO, TRI - DECA: _____

Analyst: *DMS*

Date: *6/24/14*

Client ID: PCB CS3 14F1302
Lab ID: ST140623E2-4

Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000
ConCal: NA EndCAL: NA

| Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Name | Resp | RA | RT | RRF | Conc | |
|---------------|----------|--------|------|-------|-------|-------------|-----|---------|-----------------|----------|--------|-------|------|---------|------------------------------|
| PCB-193 | 3.98e+07 | 1.07 y | 1.72 | 49:27 | 1.004 | 0.999-1.009 | | 50.0826 | Total Mono-PCB | 3.01e+08 | 3.00 y | 16:25 | 1.27 | 154.481 | |
| PCB-191 | 3.90e+07 | 1.07 y | 1.69 | 49:42 | 1.009 | 1.004-1.014 | | 49.6416 | Total Di-PCB | 2.26e+09 | 1.65 y | 20:14 | 1.21 | 1208.89 | |
| PCB-170 | 2.97e+07 | 1.05 y | 1.60 | 50:41 | 1.000 | 0.995-1.005 | | 50.7863 | Total Tri-PCB | 5.48e+08 | 1.05 y | 24:15 | 1.10 | 402.442 | |
| PCB-190 | 4.08e+07 | 1.06 y | 2.21 | 50:51 | 1.003 | 0.998-1.008 | | 50.4671 | Total Tri-PCB | 1.30e+09 | 1.03 y | 27:52 | 1.21 | 807.063 | Sum:1209.50 |
| PCB-189 | 3.71e+07 | 1.05 y | 1.55 | 52:08 | 1.000 | 0.995-1.005 | | 50.0142 | 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 | |
| PCB-202 | 3.01e+07 | 0.94 y | 1.08 | 48:12 | 1.000 | 0.995-1.005 | | 49.1569 | Total Penta-PCB | 3.13e+08 | 1.65 y | 42:07 | 1.25 | 268.155 | Sum:2315.77 |
| PCB-201 | 3.19e+07 | 0.91 y | 1.15 | 48:41 | 1.010 | 1.005-1.015 | | 49.1361 | Total Hexa-PCB | 4.35e+08 | 1.27 y | 36:57 | 0.90 | 682.032 | |
| PCB-204 | 3.22e+07 | 0.91 y | 1.14 | 48:50 | 1.014 | 1.008-1.018 | | 50.0554 | Total Hexa-PCB | 1.26e+09 | 1.25 y | 42:02 | 1.11 | 1398.33 | Sum:2080.36 |
| PCB-197 | 3.03e+07 | 0.91 y | 1.07 | 49:09 | 1.020 | 1.015-1.025 | | 49.8625 | Total Hepta-PCB | 9.18e+08 | 1.05 y | 42:46 | 1.42 | 1205.33 | |
| PCB-200 | 3.01e+07 | 0.90 y | 1.06 | 49:59 | 1.037 | 1.032-1.044 | | 50.0631 | Total Octa-PCB | 2.43e+08 | 0.94 y | 48:12 | 0.96 | 447.388 | |
| PCB-198 | 2.18e+07 | 0.92 y | 0.76 | 51:15 | 1.064 | 1.059-1.069 | | 51.1487 | Total Octa-PCB | 1.04e+08 | 0.89 y | 52:45 | 1.33 | 151.653 | Sum:599.041 |
| PCB-199 | 2.16e+07 | 0.91 y | 0.80 | 51:21 | 1.066 | 1.061-1.071 | | 47.8578 | Total Nona-PCB | 9.23e+07 | 1.34 y | 52:53 | 1.01 | 150.101 | |
| - PCB-196/203 | 4.53e+07 | 0.92 y | 0.80 | 51:37 | 1.071 | 1.066-1.076 | | 100.108 | Total Deca-PCB | 2.30e+07 | 1.21 y | 56:38 | 1.17 | 51.1001 | |
| - 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 | | | | | | | Total PCB Conc:10960.1670500 |
| | | | | | | | | | | | | | | | |
| 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 | | | | | | | |

Integrations
by
Analyst: DMS
Date: 6/24/14
RL: MONO, TRI - DECA: _____

Client ID: PCB CS3 14F1302
Lab ID: ST140623E2-4

Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49 ConCal: NA
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 | CRS vs. RS | 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-79 | 1.25e+08 | 0.79 | y | 1.02 | 37:42 | 1.028 | 1.023-1.034 | 98.3 | 98.3 |
| 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-178 | 4.30e+07 | 0.46 | y | 0.61 | 45:33 | 0.984 | 0.979-0.990 | 101 | 101 |
| 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 | PS vs. IS | | | | | | | | | | |
| 13C-PCB-28 | 1.40e+08 | 1.06 | y | 0.93 | 29:01 | 1.004 | 0.999-1.009 | 98.7 | 98.7 | | Name | Resp | RA | RRF | RT | RRT | LCL | UCL | Conc | Rec |
| 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-79 | 1.25e+08 | 0.79 | y | 1.10 | 37:42 | 0.968 | 0.963-0.973 | 102 | 102 |
| 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-178 | 4.30e+07 | 0.46 | y | 0.90 | 45:33 | 0.925 | 0.920-0.930 | 103 | 103 |
| 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 | RS | | | | | | | | | | |
| 13C-PCB-101 | 6.57e+07 | 1.54 | y | 0.78 | 37:23 | 0.956 | 0.951-0.961 | 98.6 | 98.6 | | Name | Resp | RA | RRF | RT | Conc | | | | |
| 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-15 | 1.78e+08 | 1.59 | y | 1.00 | 25:55 | 100 | | | |
| 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-31 | 1.52e+08 | 1.05 | y | 1.00 | 28:55 | 100 | | | |
| 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-60 | 1.25e+08 | 0.79 | y | 1.00 | 36:39 | 100 | | | |
| 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-111 | 8.51e+07 | 1.57 | y | 1.00 | 39:07 | 100 | | | |
| 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-128 | 6.93e+07 | 1.27 | y | 1.00 | 46:16 | 100 | | | |
| 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-205 | 6.51e+07 | 0.91 | y | 1.00 | 53:54 | 100 | | | |
| 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 | | | | | | | | | | | |

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 |

Attachment M-5
Split Sample Results

From: Matt Carey [<mailto:mattc@machinistsinc.com>]
Sent: Friday, May 08, 2015 10:02 AM
To: Alam, Mahbub (ECY); Nisquallyenv@aol.com
Cc: Wright, Robert (ECY)
Subject: RE: FW: Puget Sound Coating data

Alam-

Sorry about my delayed response. I've been a bit swamped after taking a few days of vacation, followed by a 3 day training course. I am writing this to verify that our split sample was in my possession from a few minutes after the COC was signed by Shawn Mellot (another PSC employee who was helping monitor the sampling by Test America) until I personally delivered the samples (which were on ice in a cooler) to our lab. Shawn signed the COC when Test America was done, and then he brought the samples to me for transport to the lab.

I hope this clears up any questions about the COC and allows you to use our split sample results.

Thank you,
Matt

Matt Carey
mattc@machinistsinc.com
206-763-0990 Office
206-763-8709 Fax
206-265-1029 Cell

From: Alam, Mahbub (ECY) [<mailto:MALA461@ECY.WA.GOV>]
Sent: Thursday, April 30, 2015 2:27 PM
To: Nisquallyenv@aol.com
Cc: Matt Carey; Wright, Robert (ECY)
Subject: RE: FW: Puget Sound Coating data

Thank you, John.

I think a simple signed letter explaining this would help so that I can attach the letter to your lab report and ultimately to our final report. Otherwise, I cannot include PSC's split results in the final report. Also, the split results will be qualified as "unvalidated" in the report because I believe you have not done any third party data validation service. If you did, please let me know.

Sincerely,

Mahbub Alam, PhD, PE
Source Control and Stormwater Engineer
425-649-7202; mahbub.alam@ecy.wa.gov

From: Nisquallyenv@aol.com [<mailto:Nisquallyenv@aol.com>]

Sent: Thursday, April 30, 2015 1:56 PM

To: Alam, Mahbub (ECY)

Cc: mattc@machinistsinc.com

Subject: Re: FW: Puget Sound Coating data

Mahbub,

I see what you mean, your contractor had one of the folks present sign the COC from Test America (Shawn), then the samples were handed to Matt and we took the samples to Spectra Labs. Therefore the chain is broken in the sense that there is not a signature from Shawn to Matt (though both were present during the transfer).

I don't know what else to do about this, other than acknowledge that it occurred.

As for mistakenly done or left out, the client was unaware of the specific requirements of the COC. I am sure, if there is a need that benefits my client, we can send you a paragraph stating the samples were in possession of Matt from the site to the lab.

John

In a message dated 4/30/2015 1:40:09 P.M. Pacific Daylight Time, MALA461@ECY.WA.GOV writes:

John,

I know you were present at the time of sampling. I am not disputing that.

Please open the first file attachment (chain of custody) that I sent in my previous email. That COC clearly shows sample was relinquished by Shawn Mellott (spelling may be wrong). This part of the COC should be present in your lab report. Also, Spectra COC says Matt Carey's name. The paper trail shows inconsistency. If this is something that was mistakenly done or left out, I would need written explanation and also I would contact the lab to make this straight.

Thanks for your help.

Mahbub Alam, PhD, PE
Source Control and Stormwater Engineer
425-649-7202; mahbub.alam@ecy.wa.gov

From: Nisquallyenv@aol.com [<mailto:Nisquallyenv@aol.com>]

Sent: Thursday, April 30, 2015 12:44 PM

To: Alam, Mahbub (ECY)

Subject: Re: FW: Puget Sound Coating data

As you know, we were present the entire sampling event. There is no COC from your contractor transferring ownership, we obtained the splits on site and took them to the lab ourselves.

John

In a message dated 4/30/2015 12:37:30 P.M. Pacific Daylight Time, MALA461@ECY.WA.GOV writes:

Good Morning, John:

While looking into Puget Sound Coating split sampling data, I could not find the original chain of custody (COC) prepared by our contractor (Leidos). I only see a COC from PSC to Spectra. It appears that the chain of custody is broken.

Can you explain this?

Please see attached the original COC prepared by Leidos and signed by PSC.

I am also attaching the preliminary lab reports (unvalidated) so that you can find explanation of symbols and QC data. The reason we didn't share these earlier:

1. These are unvalidated preliminary data and we are doing third party data validation
2. These would be included in the final report as an attachment, so the facility will have a chance to see that as part of the bigger package
3. If shared now, these might create confusion among the parties (validated vs. unvalidated)

Hope this answers many of your questions.

Thank you,

Mahbub Alam, PhD, PE
Source Control and Stormwater Engineer
425-649-7202; mahbub.alam@ecy.wa.gov

From: Alam, Mahbub (ECY)
Sent: Wednesday, April 29, 2015 7:31 AM
To: 'Nisquallyenv@aol.com'; Wright, Robert (ECY)
Cc: mattc@machinistsinc.com
Subject: RE: FW: Puget Sound Coating data

John:

Thank you for sending the split sampling results. We are intending to include your lab results in our report as an attachment to the facility appendix. However, this will be qualified as "unvalidated data" since I believe this data has not gone through any third party data validation process. If you have done any such services, please let me know.



SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

09/26/2014

Puget Sound Coatings
9220 8th Ave S.
Seattle, WA 98108

P.O.#: 61409
Project: City Split Samples
Client ID: PS-TS-01 20140909-W
Sample Matrix: Liquid
Date Sampled: 09/09/2014
Date Received: 09/10/2014
Spectra Project: 2014090268
Spectra Number: 1

| Analyte | Result | Units | Method | Analyte | Result | Units | Method |
|------------------------|--------|--------|---------------|---------------------------|--------|-------|-------------|
| Antimony | 1.5 | µg/L | EPA 200.8 | 1,2-Dichlorobenzene | <2.50 | µg/L | SW846 8270D |
| Arsenic | < 0.5 | µg/L | EPA 200.8 | 1,3-Dichlorobenzene | <2.50 | µg/L | SW846 8270D |
| Beryllium | < 0.5 | µg/L | EPA 200.8 | 1,4-Dichlorobenzene | <2.50 | µg/L | SW846 8270D |
| Cadmium | < 0.5 | µg/L | EPA 200.8 | 1-Methylnaphthalene | <0.100 | µg/L | SW846 8270D |
| Chromium | 2.0 | µg/L | EPA 200.8 | 2,3,4,5-Tetrachlorophenol | <2.50 | µg/L | SW846 8270D |
| Copper | 13.1 | µg/L | EPA 200.8 | 2,3,4,6-Tetrachlorophenol | <2.50 | µg/L | SW846 8270D |
| Lead | 0.8 | µg/L | EPA 200.8 | 2,4,5-Trichlorophenol | <2.50 | µg/L | SW846 8270D |
| Nickel | 3.0 | µg/L | EPA 200.8 | 2,4,6-Trichlorophenol | <2.50 | µg/L | SW846 8270D |
| Selenium | < 0.5 | µg/L | EPA 200.8 | 2,4-Dichlorophenol | <2.50 | µg/L | SW846 8270D |
| Silver | < 0.5 | µg/L | EPA 200.8 | 2,4-Dimethylphenol | <2.50 | µg/L | SW846 8270D |
| Thallium | < 0.5 | µg/L | EPA 200.8 | 2,4-Dinitrophenol | <10 | µg/L | SW846 8270D |
| Zinc | 3250 | µg/L | EPA 200.8 | 2,4-Dinitrotoluene | <2.50 | µg/L | SW846 8270D |
| Mercury | <0.2 | µg/L | EPA 245.1 | 2,6-Dinitrotoluene | <2.50 | µg/L | SW846 8270D |
| Nitrate | 1.0 | mg/L-N | Easy1-Reagent | 2-Chloronaphthalene | <2.50 | µg/L | SW846 8270D |
| Chloride | 4.0 | mg/L | SM 4500 CL-C | 2-Chlorophenol | <2.50 | µg/L | SW846 8270D |
| Sulfate | 10 | mg/L | SM 4500-SO4 E | 2-Methylnaphthalene | <0.100 | µg/L | SW846 8270D |
| Hexavalent Chromium | <0.01 | mg/L | SM3500-CR-D | 2-Methylphenol | <2.50 | µg/L | SW846 8270D |
| PCB | <0.03 | µg/L | SW846 8082A | 2-Nitroaniline | <2.50 | µg/L | SW846 8270D |
| 1,2,4-Trichlorobenzene | <2.50 | µg/L | SW846 8270D | 2-Nitrophenol | <2.50 | µg/L | SW846 8270D |

| Surrogate | Recovery | Method |
|----------------------|----------|-------------|
| Decachlorobiphenyl | 68 | SW846 8082A |
| Nitrobenzene-d6 | 92 | SW846 8270D |
| p-Terphenyl-d14 | 102 | SW846 8270D |
| 2-Fluorobiphenyl | 74 | SW846 8270D |
| Phenol-d6 | 67 | SW846 8270D |
| 2-Fluorophenol | 65 | SW846 8270D |
| 2,4,6-Tribromophenol | <2.50 | SW846 8270D |

| Surrogate | Recovery | Method |
|-----------|----------|--------|
| | | |
| | | |
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| | | |
| | | |

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a14exsur/jjb



SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

09/26/2014

Puget Sound Coatings
9220 8th Ave S.
Seattle, WA 98108

P.O.#: 61409
Project: City Split Samples
Client ID: PS-TS-01 20140909-W
Sample Matrix: Liquid
Date Sampled: 09/09/2014
Date Received: 09/10/2014
Spectra Project: 2014090268
Spectra Number: 1

| Analyte | Result | Units | Method | Analyte | Result | Units | Method |
|----------------------------|--------|-------|-------------|-------------------------|--------|-------|-------------|
| 3,3-Dichlorobenzidine | <20 | µg/L | SW846 8270D | Benzo(ghi)Perylene | <0.100 | µg/L | SW846 8270D |
| 3-Nitroaniline | <2.50 | µg/L | SW846 8270D | Benzo(k)Fluoranthene | <0.100 | µg/L | SW846 8270D |
| 4,6-Dinitro-2-Methylphenol | <10 | µg/L | SW846 8270D | Benzoic Acid | <10 | µg/L | SW846 8270D |
| 4-Bromophenyl-phenylether | <2.50 | µg/L | SW846 8270D | Benzyl Alcohol | <2.50 | µg/L | SW846 8270D |
| 4-Chloro-3-Methylphenol | <2.50 | µg/L | SW846 8270D | Biphenyl | <2.50 | µg/L | SW846 8270D |
| 4-Chloroaniline | <2.50 | µg/L | SW846 8270D | Bis(2-Chloroethyl)Ether | <2.50 | µg/L | SW846 8270D |
| 4-Chlorophenyl-phenylether | <2.50 | µg/L | SW846 8270D | Butylbenzyl phthalate | <2.50 | µg/L | SW846 8270D |
| 4-Methylphenol | <2.50 | µg/L | SW846 8270D | Carbazole | <2.50 | µg/L | SW846 8270D |
| 4-Nitroaniline | <2.50 | µg/L | SW846 8270D | Chrysene | <0.100 | µg/L | SW846 8270D |
| 4-Nitrophenol | <2.50 | µg/L | SW846 8270D | Di-n-Butylphthalate | <2.50 | µg/L | SW846 8270D |
| Acenaphthene | <0.100 | µg/L | SW846 8270D | Di-n-Octyl Phthalate | <2.50 | µg/L | SW846 8270D |
| Acenaphthylene | <0.100 | µg/L | SW846 8270D | Dibenzo(a,h)Anthracene | <0.100 | µg/L | SW846 8270D |
| Aniline | <10 | µg/L | SW846 8270D | Dibenzofuran | <2.50 | µg/L | SW846 8270D |
| Anthracene | <0.100 | µg/L | SW846 8270D | Dibenzothiophene | <2.50 | µg/L | SW846 8270D |
| Azobenzene | <2.50 | µg/L | SW846 8270D | Diethylphthalate | <2.50 | µg/L | SW846 8270D |
| Benzidine | <20 | µg/L | SW846 8270D | Dimethyl Phthalate | <2.50 | µg/L | SW846 8270D |
| Benzo(a)Anthracene | <0.100 | µg/L | SW846 8270D | Fluoranthene | <0.100 | µg/L | SW846 8270D |
| Benzo(a)Pyrene | <0.100 | µg/L | SW846 8270D | Fluorene | <0.100 | µg/L | SW846 8270D |
| Benzo(b)Fluoranthene | <0.100 | µg/L | SW846 8270D | Hexachlorobenzene | <2.50 | µg/L | SW846 8270D |

| Surrogate | Recovery | Method |
|----------------------|----------|-------------|
| Decachlorobiphenyl | 68 | SW846 8082A |
| Nitrobenzene-d6 | 92 | SW846 8270D |
| p-Terphenyl-d14 | 102 | SW846 8270D |
| 2-Fluorobiphenyl | 74 | SW846 8270D |
| Phenol-d6 | 67 | SW846 8270D |
| 2-Fluorophenol | 65 | SW846 8270D |
| 2,4,6-Tribromophenol | <2.50 | SW846 8270D |

| Surrogate | Recovery | Method |
|-----------|----------|--------|
|-----------|----------|--------|

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09/26/2014

Puget Sound Coatings
9220 8th Ave S.
Seattle, WA 98108

P.O.#: 61409
Project: City Split Samples
Client ID: PS-TS-01 20140909-W
Sample Matrix: Liquid
Date Sampled: 09/09/2014
Date Received: 09/10/2014
Spectra Project: 2014090268
Spectra Number: 1

| Analyte | Result | Units | Method | Analyte | Result | Units | Method |
|-----------------------------|--------|-------|-------------|---------|--------|-------|--------|
| Hexachlorobutadiene | <2.50 | µg/L | SW846 8270D | | | | |
| Hexachlorocyclopentadiene | <2.50 | µg/L | SW846 8270D | | | | |
| Hexachloroethane | <2.50 | µg/L | SW846 8270D | | | | |
| Indeno(1,2,3-cd)Pyrene | <0.100 | µg/L | SW846 8270D | | | | |
| Isophorone | <2.50 | µg/L | SW846 8270D | | | | |
| N-Nitroso-Di-n-Propylamine | <2.50 | µg/L | SW846 8270D | | | | |
| N-Nitrosodiphenylamine | <2.50 | µg/L | SW846 8270D | | | | |
| N-nitrosodimethylamine | <2.50 | µg/L | SW846 8270D | | | | |
| Naphthalene | <0.100 | µg/L | SW846 8270D | | | | |
| Nitrobenzene | <2.50 | µg/L | SW846 8270D | | | | |
| Pentachlorophenol | <0.100 | µg/L | SW846 8270D | | | | |
| Phenanthrene | <0.100 | µg/L | SW846 8270D | | | | |
| Phenol | <2.50 | µg/L | SW846 8270D | | | | |
| Pyrene | <0.100 | µg/L | SW846 8270D | | | | |
| Pyridine | <10 | µg/L | SW846 8270D | | | | |
| bis(2-Chloroethoxy)Methane | <2.50 | µg/L | SW846 8270D | | | | |
| bis(2-Ethylhexyl)Phthalate | <2.50 | µg/L | SW846 8270D | | | | |
| bis(2-chloroisopropyl)Ether | <2.50 | µg/L | SW846 8270D | | | | |

| Surrogate | Recovery | Method |
|----------------------|----------|-------------|
| Decachlorobiphenyl | 68 | SW846 8082A |
| Nitrobenzene-d6 | 92 | SW846 8270D |
| p-Terphenyl-d14 | 102 | SW846 8270D |
| 2-Fluorobiphenyl | 74 | SW846 8270D |
| Phenol-d6 | 67 | SW846 8270D |
| 2-Fluorophenol | 65 | SW846 8270D |
| 2,4,6-Tribromophenol | <2.50 | SW846 8270D |

| Surrogate | Recovery | Method |
|-----------|----------|--------|
|-----------|----------|--------|

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09/26/2014

Puget Sound Coatings
9220 8th Ave S.
Seattle, WA 98108

P.O.#: 61409
Project: City Split Samples
Client ID: PS-OS-01 20140909-W
Sample Matrix: Liquid
Date Sampled: 09/09/2014
Date Received: 09/10/2014
Spectra Project: 2014090268
Spectra Number: 2

| Analyte | Result | Units | Method | Analyte | Result | Units | Method |
|------------------------|--------|--------|---------------|---------------------------|--------|-------|-------------|
| Antimony | 51.9 | µg/L | EPA 200.8 | 1,2-Dichlorobenzene | <2.50 | µg/L | SW846 8270D |
| Arsenic | 3.1 | µg/L | EPA 200.8 | 1,3-Dichlorobenzene | <2.50 | µg/L | SW846 8270D |
| Beryllium | < 0.5 | µg/L | EPA 200.8 | 1,4-Dichlorobenzene | <2.50 | µg/L | SW846 8270D |
| Cadmium | 1.7 | µg/L | EPA 200.8 | 1-Methylnaphthalene | <0.100 | µg/L | SW846 8270D |
| Chromium | 1.5 | µg/L | EPA 200.8 | 2,3,4,5-Tetrachlorophenol | <2.50 | µg/L | SW846 8270D |
| Copper | 4.8 | µg/L | EPA 200.8 | 2,3,4,6-Tetrachlorophenol | <2.50 | µg/L | SW846 8270D |
| Lead | 0.7 | µg/L | EPA 200.8 | 2,4,5-Trichlorophenol | <2.50 | µg/L | SW846 8270D |
| Nickel | 1.4 | µg/L | EPA 200.8 | 2,4,6-Trichlorophenol | <2.50 | µg/L | SW846 8270D |
| Selenium | < 0.5 | µg/L | EPA 200.8 | 2,4-Dichlorophenol | <2.50 | µg/L | SW846 8270D |
| Silver | < 0.5 | µg/L | EPA 200.8 | 2,4-Dimethylphenol | <2.50 | µg/L | SW846 8270D |
| Thallium | < 0.5 | µg/L | EPA 200.8 | 2,4-Dinitrophenol | <10 | µg/L | SW846 8270D |
| Zinc | 149 | µg/L | EPA 200.8 | 2,4-Dinitrotoluene | <2.50 | µg/L | SW846 8270D |
| Mercury | <0.2 | µg/L | EPA 245.1 | 2,6-Dinitrotoluene | <2.50 | µg/L | SW846 8270D |
| Nitrate | 0.55 | mg/L-N | Easy1-Reagent | 2-Chloronaphthalene | <2.50 | µg/L | SW846 8270D |
| Chloride | 4.0 | mg/L | SM 4500 CL-C | 2-Chlorophenol | <2.50 | µg/L | SW846 8270D |
| Sulfate | 11 | mg/L | SM 4500-SO4 E | 2-Methylnaphthalene | <0.100 | µg/L | SW846 8270D |
| Hexavalent Chromium | <0.01 | mg/L | SM3500-CR-D | 2-Methylphenol | <2.50 | µg/L | SW846 8270D |
| PCB | <0.03 | µg/L | SW846 8082A | 2-Nitroaniline | <2.50 | µg/L | SW846 8270D |
| 1,2,4-Trichlorobenzene | <2.50 | µg/L | SW846 8270D | 2-Nitrophenol | <2.50 | µg/L | SW846 8270D |

| Surrogate | Recovery | Method |
|----------------------|----------|-------------|
| Decachlorobiphenyl | 75 | SW846 8082A |
| Nitrobenzene-d6 | 81 | SW846 8270D |
| p-Terphenyl-d14 | 101 | SW846 8270D |
| 2-Fluorobiphenyl | 75 | SW846 8270D |
| Phenol-d6 | 61 | SW846 8270D |
| 2-Fluorophenol | 57 | SW846 8270D |
| 2,4,6-Tribromophenol | 87 | SW846 8270D |

| Surrogate | Recovery | Method |
|-----------|----------|--------|
|-----------|----------|--------|

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09/26/2014

Puget Sound Coatings
9220 8th Ave S.
Seattle, WA 98108

P.O.#: 61409
Project: City Split Samples
Client ID: PS-OS-01 20140909-W
Sample Matrix: Liquid
Date Sampled: 09/09/2014
Date Received: 09/10/2014
Spectra Project: 2014090268
Spectra Number: 2

| Analyte | Result | Units | Method | Analyte | Result | Units | Method |
|----------------------------|--------|-------|-------------|-------------------------|--------|-------|-------------|
| 3,3-Dichlorobenzidine | <20 | µg/L | SW846 8270D | Benzo(ghi)Perylene | <0.100 | µg/L | SW846 8270D |
| 3-Nitroaniline | <2.50 | µg/L | SW846 8270D | Benzo(k)Fluoranthene | <0.100 | µg/L | SW846 8270D |
| 4,6-Dinitro-2-Methylphenol | <10 | µg/L | SW846 8270D | Benzoic Acid | <10 | µg/L | SW846 8270D |
| 4-Bromophenyl-phenylether | <2.50 | µg/L | SW846 8270D | Benzyl Alcohol | <2.50 | µg/L | SW846 8270D |
| 4-Chloro-3-Methylphenol | <2.50 | µg/L | SW846 8270D | Biphenyl | <2.50 | µg/L | SW846 8270D |
| 4-Chloroaniline | <2.50 | µg/L | SW846 8270D | Bis(2-Chloroethyl)Ether | <2.50 | µg/L | SW846 8270D |
| 4-Chlorophenyl-phenylether | <2.50 | µg/L | SW846 8270D | Butylbenzyl phthalate | <2.50 | µg/L | SW846 8270D |
| 4-Methylphenol | <2.50 | µg/L | SW846 8270D | Carbazole | <2.50 | µg/L | SW846 8270D |
| 4-Nitroaniline | <2.50 | µg/L | SW846 8270D | Chrysene | <0.100 | µg/L | SW846 8270D |
| 4-Nitrophenol | <2.50 | µg/L | SW846 8270D | Di-n-Butylphthalate | <2.50 | µg/L | SW846 8270D |
| Acenaphthene | <0.100 | µg/L | SW846 8270D | Di-n-Octyl Phthalate | <2.50 | µg/L | SW846 8270D |
| Acenaphthylene | <0.100 | µg/L | SW846 8270D | Dibenzo(a,h)Anthracene | <0.100 | µg/L | SW846 8270D |
| Aniline | <10 | µg/L | SW846 8270D | Dibenzofuran | <2.50 | µg/L | SW846 8270D |
| Anthracene | <0.100 | µg/L | SW846 8270D | Dibenzothiophene | <2.50 | µg/L | SW846 8270D |
| Azobenzene | <2.50 | µg/L | SW846 8270D | Diethylphthalate | <2.50 | µg/L | SW846 8270D |
| Benzidine | <20 | µg/L | SW846 8270D | Dimethyl Phthalate | <2.50 | µg/L | SW846 8270D |
| Benzo(a)Anthracene | <0.100 | µg/L | SW846 8270D | Fluoranthene | <0.100 | µg/L | SW846 8270D |
| Benzo(a)Pyrene | <0.100 | µg/L | SW846 8270D | Fluorene | <0.100 | µg/L | SW846 8270D |
| Benzo(b)Fluoranthene | <0.100 | µg/L | SW846 8270D | Hexachlorobenzene | <2.50 | µg/L | SW846 8270D |

| Surrogate | Recovery | Method |
|----------------------|----------|-------------|
| Decachlorobiphenyl | 75 | SW846 8082A |
| Nitrobenzene-d6 | 81 | SW846 8270D |
| p-Terphenyl-d14 | 101 | SW846 8270D |
| 2-Fluorobiphenyl | 75 | SW846 8270D |
| Phenol-d6 | 61 | SW846 8270D |
| 2-Fluorophenol | 57 | SW846 8270D |
| 2,4,6-Tribromophenol | 87 | SW846 8270D |

| Surrogate | Recovery | Method |
|-----------|----------|--------|
|-----------|----------|--------|

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09/26/2014

Puget Sound Coatings
9220 8th Ave S.
Seattle, WA 98108

P.O.#: 61409
Project: City Split Samples
Client ID: PS-OS-01 20140909-W
Sample Matrix: Liquid
Date Sampled: 09/09/2014
Date Received: 09/10/2014
Spectra Project: 2014090268
Spectra Number: 2

| Analyte | Result | Units | Method | Analyte | Result | Units | Method |
|-----------------------------|--------|-------|-------------|---------|--------|-------|--------|
| Hexachlorobutadiene | <2.50 | µg/L | SW846 8270D | | | | |
| Hexachlorocyclopentadiene | <2.50 | µg/L | SW846 8270D | | | | |
| Hexachloroethane | <2.50 | µg/L | SW846 8270D | | | | |
| Indeno(1,2,3-cd)Pyrene | <0.100 | µg/L | SW846 8270D | | | | |
| Isophorone | <2.50 | µg/L | SW846 8270D | | | | |
| N-Nitroso-Di-n-Propylamine | <2.50 | µg/L | SW846 8270D | | | | |
| N-Nitrosodiphenylamine | <2.50 | µg/L | SW846 8270D | | | | |
| N-nitrosodimethylamine | <2.50 | µg/L | SW846 8270D | | | | |
| Naphthalene | <0.100 | µg/L | SW846 8270D | | | | |
| Nitrobenzene | <2.50 | µg/L | SW846 8270D | | | | |
| Pentachlorophenol | <0.100 | µg/L | SW846 8270D | | | | |
| Phenanthrene | <0.100 | µg/L | SW846 8270D | | | | |
| Phenol | <2.50 | µg/L | SW846 8270D | | | | |
| Pyrene | <0.100 | µg/L | SW846 8270D | | | | |
| Pyridine | <10 | µg/L | SW846 8270D | | | | |
| bis(2-Chloroethoxy)Methane | <2.50 | µg/L | SW846 8270D | | | | |
| bis(2-Ethylhexyl)Phthalate | 4.87 | µg/L | SW846 8270D | | | | |
| bis(2-chloroisopropyl)Ether | <2.50 | µg/L | SW846 8270D | | | | |

| Surrogate | Recovery | Method |
|----------------------|----------|-------------|
| Decachlorobiphenyl | 75 | SW846 8082A |
| Nitrobenzene-d6 | 81 | SW846 8270D |
| p-Terphenyl-d14 | 101 | SW846 8270D |
| 2-Fluorobiphenyl | 75 | SW846 8270D |
| Phenol-d6 | 61 | SW846 8270D |
| 2-Fluorophenol | 57 | SW846 8270D |
| 2,4,6-Tribromophenol | 87 | SW846 8270D |

| Surrogate | Recovery | Method |
|-----------|----------|--------|
|-----------|----------|--------|

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09/26/2014

Puget Sound Coatings
9220 8th Ave S.
Seattle, WA 98108

P.O.#: 61409
Project: City Split Samples
Client ID: PS-TS-01 20140909-S
Sample Matrix: Liquid
Date Sampled: 09/09/2014
Date Received: 09/10/2014
Spectra Project: 2014090268
Spectra Number: 3

| Analyte | Result | Units | Method | Analyte | Result | Units | Method |
|---------------------------|--------|-------|-------------|---------------------------|--------|-------|-------------|
| Diesel | <100 | mg/Kg | NWTPH-D | 1,1,2,2-Tetrachloroethane | <0.005 | mg/Kg | SW846 8260C |
| Oil | 3100 | mg/Kg | NWTPH-D | 1,1,2-Trichloroethane | <0.005 | mg/Kg | SW846 8260C |
| Gasoline | 268 | mg/Kg | NWTPH-G | 1,1-Dichloroethane | <0.005 | mg/Kg | SW846 8260C |
| Total Antimony | 1.7 | mg/Kg | SW846 6020A | 1,1-Dichloroethene | <0.005 | mg/Kg | SW846 8260C |
| Total Arsenic | 3.5 | mg/Kg | SW846 6020A | 1,1-Dichloropropene | <0.005 | mg/Kg | SW846 8260C |
| Total Beryllium | < 0.1 | mg/Kg | SW846 6020A | 1,2,3-Trichlorobenzene | <0.005 | mg/Kg | SW846 8260C |
| Total Cadmium | 0.6 | mg/Kg | SW846 6020A | 1,2,3-Trichloropropane | <0.005 | mg/Kg | SW846 8260C |
| Total Chromium | 49.1 | mg/Kg | SW846 6020A | 1,2,4-Trichlorobenzene | <0.005 | mg/Kg | SW846 8260C |
| Total Copper | 205 | mg/Kg | SW846 6020A | 1,2,4-Trimethylbenzene | 22.1 | mg/Kg | SW846 8260C |
| Total Lead | 19.5 | mg/Kg | SW846 6020A | 1,2-Dibromo3Chloropropane | <0.05 | mg/Kg | SW846 8260C |
| Total Nickel | 40.0 | mg/Kg | SW846 6020A | 1,2-Dibromoethane (EDB) | <0.005 | mg/Kg | SW846 8260C |
| Total Selenium | < 0.5 | mg/Kg | SW846 6020A | 1,2-Dichlorobenzene | <0.005 | mg/Kg | SW846 8260C |
| Total Silver | < 0.5 | mg/Kg | SW846 6020A | 1,2-Dichloroethane | <0.005 | mg/Kg | SW846 8260C |
| Total Thallium | < 0.5 | mg/Kg | SW846 6020A | 1,2-Dichloropropane | <0.005 | mg/Kg | SW846 8260C |
| Total Zinc | 17460 | mg/Kg | SW846 6020A | 1,3,5-Trimethylbenzene | 16.6 | mg/Kg | SW846 8260C |
| Total Mercury | 0.09 | mg/Kg | SW846 7471B | 1,3-Dichlorobenzene | <0.005 | mg/Kg | SW846 8260C |
| PCB AR1254* | 0.02 | mg/Kg | SW846 8082A | 1,3-Dichloropropane | <0.005 | mg/Kg | SW846 8260C |
| 1,1,1,2-Tetrachloroethane | <0.005 | mg/Kg | SW846 8260C | 1,4-Dichlorobenzene | <0.005 | mg/Kg | SW846 8260C |
| 1,1,1-Trichloroethane | <0.005 | mg/Kg | SW846 8260C | 2,2-Dichloropropane | <0.005 | mg/Kg | SW846 8260C |

*Sample contains multiple Aroclors. Total area of the PCB pattern in the sample was quantified on the basis of the Aroclor standard that is most similar to the sample. **Surrogate diluted out of sample.

| Surrogate | Recovery | Method | Surrogate | Recovery | Method |
|-----------------------|----------|-------------|----------------------|----------|-------------|
| 2-Fluorophenol | 56 | SW846 8270D | 4-Bromofluorobenzene | 100 | SW846 8260C |
| Nitrobenzene-d6 | 109 | SW846 8270D | Dibromofluoromethane | 112 | SW846 8260C |
| Phenol-d6 | 108 | SW846 8270D | Toluene-d8 | 91 | SW846 8260C |
| 2-Fluorobiphenyl | 61 | SW846 8270D | Decachlorobiphenyl | 64 | SW846 8082A |
| 2,4,6-Tribromophenol | 87 | SW846 8270D | p-Terphenyl | 0** | NWTPH-D |
| p-Terphenyl-d14 | 64 | SW846 8270D | Toluene-d8 | 105 | NWTPH-G |
| 1,2-Dichloroethane-d4 | 140 | SW846 8260C | 4-Bromofluorobenzene | 91 | NWTPH-G |

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09/26/2014

Puget Sound Coatings
9220 8th Ave S.
Seattle, WA 98108

P.O.#: 61409
Project: City Split Samples
Client ID: PS-TS-01 20140909-S
Sample Matrix: Liquid
Date Sampled: 09/09/2014
Date Received: 09/10/2014
Spectra Project: 2014090268
Spectra Number: 3

| Analyte | Result | Units | Method | Analyte | Result | Units | Method |
|-----------------------------|--------|-------|-------------|-------------------------|--------|-------|-------------|
| 2-Butanone (MEK) | <0.05 | mg/Kg | SW846 8260C | Chloroform | <0.005 | mg/Kg | SW846 8260C |
| 2-Chlorotoluene | <0.005 | mg/Kg | SW846 8260C | Chloromethane | <0.005 | mg/Kg | SW846 8260C |
| 2-Hexanone (MBK) | <0.05 | mg/Kg | SW846 8260C | Dibromomethane | <0.005 | mg/Kg | SW846 8260C |
| 4-Chlorotoluene | <0.005 | mg/Kg | SW846 8260C | Dichlorodifluoromethane | <0.005 | mg/Kg | SW846 8260C |
| 4-Isopropyltoluene | 0.506 | mg/Kg | SW846 8260C | Ethylbenzene | 0.989 | mg/Kg | SW846 8260C |
| 4-methyl-2-pentanone (MIBK) | 2.40 | mg/Kg | SW846 8260C | Hexachlorobutadiene | <0.005 | mg/Kg | SW846 8260C |
| Acetone | <0.05 | mg/Kg | SW846 8260C | Isopropylbenzene | 1.08 | mg/Kg | SW846 8260C |
| Acrolein | <0.05 | mg/Kg | SW846 8260C | Methyl-tert-Butyl Ether | <0.005 | mg/Kg | SW846 8260C |
| Acrylonitrile | <0.05 | mg/Kg | SW846 8260C | Methylene chloride | <0.005 | mg/Kg | SW846 8260C |
| Benzene | <0.005 | mg/Kg | SW846 8260C | Styrene | <0.005 | mg/Kg | SW846 8260C |
| Bromobenzene | <0.005 | mg/Kg | SW846 8260C | Tetrachloroethene | <0.005 | mg/Kg | SW846 8260C |
| Bromochloromethane | <0.005 | mg/Kg | SW846 8260C | Toluene | 0.246 | mg/Kg | SW846 8260C |
| Bromodichloromethane | <0.005 | mg/Kg | SW846 8260C | Total Xylenes | 16.0 | mg/Kg | SW846 8260C |
| Bromoform | <0.005 | mg/Kg | SW846 8260C | Trichloroethene | <0.005 | mg/Kg | SW846 8260C |
| Bromomethane | <0.005 | mg/Kg | SW846 8260C | Trichlorofluoromethane | <0.005 | mg/Kg | SW846 8260C |
| Carbon Tetrachloride | <0.005 | mg/Kg | SW846 8260C | Vinyl Acetate | <0.05 | mg/Kg | SW846 8260C |
| Chlorobenzene | <0.005 | mg/Kg | SW846 8260C | Vinyl chloride | <0.005 | mg/Kg | SW846 8260C |
| Chlorodibromomethane | <0.005 | mg/Kg | SW846 8260C | cis-1,2-Dichloroethene | <0.005 | mg/Kg | SW846 8260C |
| Chloroethane | <0.005 | mg/Kg | SW846 8260C | cis-1,3-Dichloropropene | <0.005 | mg/Kg | SW846 8260C |

*Sample contains multiple Aroclors. Total area of the PCB pattern in the sample was quantified on the basis of the Aroclor standard that is most similar to the sample. **Surrogate diluted out of sample.

| Surrogate | Recovery | Method | Surrogate | Recovery | Method |
|-----------------------|----------|-------------|----------------------|----------|-------------|
| 2-Fluorophenol | 56 | SW846 8270D | 4-Bromofluorobenzene | 100 | SW846 8260C |
| Nitrobenzene-d6 | 109 | SW846 8270D | Dibromofluoromethane | 112 | SW846 8260C |
| Phenol-d6 | 108 | SW846 8270D | Toluene-d8 | 91 | SW846 8260C |
| 2-Fluorobiphenyl | 61 | SW846 8270D | Decachlorobiphenyl | 64 | SW846 8082A |
| 2,4,6-Tribromophenol | 87 | SW846 8270D | p-Terphenyl | 0** | NWTPH-D |
| p-Terphenyl-d14 | 64 | SW846 8270D | Toluene-d8 | 105 | NWTPH-G |
| 1,2-Dichloroethane-d4 | 140 | SW846 8260C | 4-Bromofluorobenzene | 91 | NWTPH-G |

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09/26/2014

Puget Sound Coatings
9220 8th Ave S.
Seattle, WA 98108

P.O.#: 61409
Project: City Split Samples
Client ID: PS-TS-01 20140909-S
Sample Matrix: Liquid
Date Sampled: 09/09/2014
Date Received: 09/10/2014
Spectra Project: 2014090268
Spectra Number: 3

| Analyte | Result | Units | Method | Analyte | Result | Units | Method |
|---------------------------|--------|-------|-------------|----------------------------|--------|-------|-------------|
| n-Butylbenzene | <0.005 | mg/Kg | SW846 8260C | 2-Chlorophenol | <0.25 | mg/Kg | SW846 8270D |
| n-Propylbenzene | 1.82 | mg/Kg | SW846 8260C | 2-Methylnaphthalene | 0.027 | mg/Kg | SW846 8270D |
| sec-Butylbenzene | <0.005 | mg/Kg | SW846 8260C | 2-Methylphenol | <0.01 | mg/Kg | SW846 8270D |
| tert-Butylbenzene | <0.005 | mg/Kg | SW846 8260C | 2-Nitroaniline | <0.25 | mg/Kg | SW846 8270D |
| trans-1,2-Dichloroethene | <0.005 | mg/Kg | SW846 8260C | 2-Nitrophenol | <0.25 | mg/Kg | SW846 8270D |
| trans-1,3-Dichloropropene | <0.005 | mg/Kg | SW846 8260C | 3,3-Dichlorobenzidine | <2.00 | mg/Kg | SW846 8270D |
| 1,2,4-Trichlorobenzene | <0.01 | mg/Kg | SW846 8270D | 3-Nitroaniline | <0.25 | mg/Kg | SW846 8270D |
| 1,2-Dichlorobenzene | <0.01 | mg/Kg | SW846 8270D | 4,6-Dinitro-2-Methylphenol | <1.00 | mg/Kg | SW846 8270D |
| 1,3-Dichlorobenzene | <0.01 | mg/Kg | SW846 8270D | 4-Bromophenyl-phenylether | <0.25 | mg/Kg | SW846 8270D |
| 1,4-Dichlorobenzene | <0.01 | mg/Kg | SW846 8270D | 4-Chloro-3-Methylphenol | <0.25 | mg/Kg | SW846 8270D |
| 1-Methylnaphthalene | 0.016 | mg/Kg | SW846 8270D | 4-Chloroaniline | <0.25 | mg/Kg | SW846 8270D |
| 2,4,5-Trichlorophenol | <0.25 | mg/Kg | SW846 8270D | 4-Chlorophenyl-phenylether | <0.25 | mg/Kg | SW846 8270D |
| 2,4,6-Trichlorophenol | <0.25 | mg/Kg | SW846 8270D | 4-Methylphenol | 0.352 | mg/Kg | SW846 8270D |
| 2,4-Dichlorophenol | <0.25 | mg/Kg | SW846 8270D | 4-Nitroaniline | <0.25 | mg/Kg | SW846 8270D |
| 2,4-Dimethylphenol | <0.01 | mg/Kg | SW846 8270D | 4-Nitrophenol | <0.25 | mg/Kg | SW846 8270D |
| 2,4-Dinitrophenol | <1.00 | mg/Kg | SW846 8270D | Acenaphthene | 0.054 | mg/Kg | SW846 8270D |
| 2,4-Dinitrotoluene | <0.25 | mg/Kg | SW846 8270D | Acenaphthylene | <0.01 | mg/Kg | SW846 8270D |
| 2,6-Dinitrotoluene | <0.25 | mg/Kg | SW846 8270D | Aniline | <1.00 | mg/Kg | SW846 8270D |
| 2-Chloronaphthalene | <0.25 | mg/Kg | SW846 8270D | Anthracene | 0.062 | mg/Kg | SW846 8270D |

*Sample contains multiple Aroclors. Total area of the PCB pattern in the sample was quantified on the basis of the Aroclor standard that is most similar to the sample. **Surrogate diluted out of sample.

| Surrogate | Recovery | Method | Surrogate | Recovery | Method |
|-----------------------|----------|-------------|----------------------|----------|-------------|
| 2-Fluorophenol | 56 | SW846 8270D | 4-Bromofluorobenzene | 100 | SW846 8260C |
| Nitrobenzene-d6 | 109 | SW846 8270D | Dibromofluoromethane | 112 | SW846 8260C |
| Phenol-d6 | 108 | SW846 8270D | Toluene-d8 | 91 | SW846 8260C |
| 2-Fluorobiphenyl | 61 | SW846 8270D | Decachlorobiphenyl | 64 | SW846 8082A |
| 2,4,6-Tribromophenol | 87 | SW846 8270D | p-Terphenyl | 0** | NWTPH-D |
| p-Terphenyl-d14 | 64 | SW846 8270D | Toluene-d8 | 105 | NWTPH-G |
| 1,2-Dichloroethane-d4 | 140 | SW846 8260C | 4-Bromofluorobenzene | 91 | NWTPH-G |

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
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09/26/2014

Puget Sound Coatings
9220 8th Ave S.
Seattle, WA 98108

P.O.#: 61409
Project: City Split Samples
Client ID: PS-TS-01 20140909-S
Sample Matrix: Liquid
Date Sampled: 09/09/2014
Date Received: 09/10/2014
Spectra Project: 2014090268
Spectra Number: 3

| Analyte | Result | Units | Method | Analyte | Result | Units | Method |
|-------------------------|--------|-------|-------------|----------------------------|--------|-------|-------------|
| Azobenzene | <0.25 | mg/Kg | SW846 8270D | Diethylphthalate | <0.150 | mg/Kg | SW846 8270D |
| Benzidine | <2.00 | mg/Kg | SW846 8270D | Dimethyl Phthalate | <0.150 | mg/Kg | SW846 8270D |
| Benzo(a)Anthracene | 0.503 | mg/Kg | SW846 8270D | Fluoranthene | 1.41 | mg/Kg | SW846 8270D |
| Benzo(a)Pyrene | 0.408 | mg/Kg | SW846 8270D | Fluorene | 0.072 | mg/Kg | SW846 8270D |
| Benzo(b)Fluoranthene | 0.815 | mg/Kg | SW846 8270D | Hexachlorobenzene | <0.01 | mg/Kg | SW846 8270D |
| Benzo(ghi)Perylene | 0.028 | mg/Kg | SW846 8270D | Hexachlorobutadiene | <0.01 | mg/Kg | SW846 8270D |
| Benzo(k)Fluoranthene | 0.216 | mg/Kg | SW846 8270D | Hexachlorocyclopentadiene | <0.25 | mg/Kg | SW846 8270D |
| Benzoic Acid | <0.05 | mg/Kg | SW846 8270D | Hexachloroethane | <0.25 | mg/Kg | SW846 8270D |
| Benzyl Alcohol | <0.01 | mg/Kg | SW846 8270D | Indeno(1,2,3-cd)Pyrene | 0.155 | mg/Kg | SW846 8270D |
| Biphenyl | <0.25 | mg/Kg | SW846 8270D | Isophorone | <0.25 | mg/Kg | SW846 8270D |
| Bis(2-Chloroethyl)Ether | <0.25 | mg/Kg | SW846 8270D | N-Nitroso-Di-n-Propylamine | <0.25 | mg/Kg | SW846 8270D |
| Butylbenzylphthalate | 3.28 | mg/Kg | SW846 8270D | N-Nitrosodiphenylamine | <0.01 | mg/Kg | SW846 8270D |
| Carbazole | <0.25 | mg/Kg | SW846 8270D | N-nitrosodimethylamine | <0.25 | mg/Kg | SW846 8270D |
| Chrysene | 0.718 | mg/Kg | SW846 8270D | Naphthalene | 0.089 | mg/Kg | SW846 8270D |
| Di-n-Butylphthalate | 0.266 | mg/Kg | SW846 8270D | Nitrobenzene | <0.25 | mg/Kg | SW846 8270D |
| Di-n-Octyl Phthalate | 0.180 | mg/Kg | SW846 8270D | Pentachlorophenol | <0.01 | mg/Kg | SW846 8270D |
| Dibenz(a,h)Anthracene | 0.023 | mg/Kg | SW846 8270D | Phenanthrene | 1.04 | mg/Kg | SW846 8270D |
| Dibenzofuran | 0.038 | mg/Kg | SW846 8270D | Phenol | 0.392 | mg/Kg | SW846 8270D |
| Dibenzothiophene | <0.25 | mg/Kg | SW846 8270D | Pyrene | 1.18 | mg/Kg | SW846 8270D |

*Sample contains multiple Aroclors. Total area of the PCB pattern in the sample was quantified on the basis of the Aroclor standard that is most similar to the sample. **Surrogate diluted out of sample.

| Surrogate | Recovery | Method | Surrogate | Recovery | Method |
|-----------------------|----------|-------------|----------------------|----------|-------------|
| 2-Fluorophenol | 56 | SW846 8270D | 4-Bromofluorobenzene | 100 | SW846 8260C |
| Nitrobenzene-d6 | 109 | SW846 8270D | Dibromofluoromethane | 112 | SW846 8260C |
| Phenol-d6 | 108 | SW846 8270D | Toluene-d8 | 91 | SW846 8260C |
| 2-Fluorobiphenyl | 61 | SW846 8270D | Decachlorobiphenyl | 64 | SW846 8082A |
| 2,4,6-Tribromophenol | 87 | SW846 8270D | p-Terphenyl | 0** | NWTPH-D |
| p-Terphenyl-d14 | 64 | SW846 8270D | Toluene-d8 | 105 | NWTPH-G |
| 1,2-Dichloroethane-d4 | 140 | SW846 8260C | 4-Bromofluorobenzene | 91 | NWTPH-G |

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
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09/26/2014

Puget Sound Coatings
9220 8th Ave S.
Seattle, WA 98108

P.O.#: 61409
Project: City Split Samples
Client ID: PS-TS-01 20140909-S
Sample Matrix: Liquid
Date Sampled: 09/09/2014
Date Received: 09/10/2014
Spectra Project: 2014090268
Spectra Number: 3

| <u>Analyte</u> | <u>Result</u> | <u>Units</u> | <u>Method</u> | <u>Analyte</u> | <u>Result</u> | <u>Units</u> | <u>Method</u> |
|-----------------------------|---------------|--------------|---------------|----------------|---------------|--------------|---------------|
| Pyridine | <1.00 | mg/Kg | SW846 8270D | | | | |
| Tetrachlorophenol | <0.25 | mg/Kg | SW846 8270D | | | | |
| bis(2-Chloroethoxy)Methane | <0.25 | mg/Kg | SW846 8270D | | | | |
| bis(2-Ethylhexyl)Phthalate | 6.44 | mg/Kg | SW846 8270D | | | | |
| bis(2-chloroisopropyl)Ether | <0.25 | mg/Kg | SW846 8270D | | | | |

*Sample contains multiple Aroclors. Total area of the PCB pattern in the sample was quantified on the basis of the Aroclor standard that is most similar to the sample. **Surrogate diluted out of sample.

| <u>Surrogate</u> | <u>Recovery</u> | <u>Method</u> | <u>Surrogate</u> | <u>Recovery</u> | <u>Method</u> |
|-----------------------|-----------------|---------------|----------------------|-----------------|---------------|
| 2-Fluorophenol | 56 | SW846 8270D | 4-Bromofluorobenzene | 100 | SW846 8260C |
| Nitrobenzene-d6 | 109 | SW846 8270D | Dibromofluoromethane | 112 | SW846 8260C |
| Phenol-d6 | 108 | SW846 8270D | Toluene-d8 | 91 | SW846 8260C |
| 2-Fluorobiphenyl | 61 | SW846 8270D | Decachlorobiphenyl | 64 | SW846 8082A |
| 2,4,6-Tribromophenol | 87 | SW846 8270D | p-Terphenyl | 0** | NWTPH-D |
| p-Terphenyl-d14 | 64 | SW846 8270D | Toluene-d8 | 105 | NWTPH-G |
| 1,2-Dichloroethane-d4 | 140 | SW846 8260C | 4-Bromofluorobenzene | 91 | NWTPH-G |

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a14exsur/jjb

September 23, 2014

Puget Sound Coatings
9220 8th Ave. S.
Seattle, WA 98108Spectra Project # 2014090268
Sample Spiked: Method Blank
Date Extracted: 9/12/2014
Date Analyzed: 9/13/2014
Units: ug/L
Applies to Spectra #'s: #1-2

GCMS Semi-Volatile Organic Analysis Method 625/8270 Blank Spike (LCS) Results

| Compound | Sample Conc. | Spike Added | MS Conc. | MS %Rec |
|----------------------------|-----------------|----------------|-------------|------------|
| Phenol | <2.50 | 75 | 53.0 | 71 |
| 2-Chlorophenol | <2.50 | 75 | 53.0 | 71 |
| 1,4-Dichlorobenzene | <2.50 | 50 | 20.9 | 42 |
| N-Nitroso-Di-N-Propylamine | <2.50 | 50 | 51.3 | 103 |
| 1,2,4-Trichlorobenzene | <2.50 | 50 | 24.4 | 49 |
| 4-Chloro-3-Methylphenol | <2.50 | 75 | 53.7 | 72 |
| Acenaphthene | <1.00 | 50 | 34.6 | 69 |
| 2,4-Dinitrotoluene | <2.50 | 50 | 33.2 | 66 |
| 4-Nitrophenol | <2.50 | 75 | 93.7 | 125 |
| Pentachlorophenol | <2.50 | 75 | 54.3 | 72 |
| Pyrene | <1.00 | 50 | 34.7 | 69 |

| Surrogates | MS%Rec |
|----------------------|--------|
| 2-Fluorophenol | 84 |
| Phenol-d5 | 88 |
| Nitrobenzene-d5 | 119 |
| 2-Fluorobiphenyl | 76 |
| 2,4,6-Tribromophenol | 92 |
| p-Terphenyl-d14 | 112 |



Steven G. Hibbs
Laboratory Manager



SPECTRA Laboratories

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September 23, 2014

Puget Sound Coatings
9220 8th Ave. S.
Seattle, WA 98108

Sample Matrix:
Spectra Project:
Applies to #1-2

Water
2014090268
Date Extracted:
Date Analyzed:
Dilution:
< = less than

9/12/2014
9/13/2014
1

SEMIVOLATILE ORGANIC ANALYSIS METHOD BLANK RESULTS

METHOD 625/8270

| Compound | ug/L | Compound | ug/L |
|-----------------------------|-------|----------------------------|-------|
| Pyridine | < 10 | 2,4-Dinitrophenol | < 10 |
| N-Nitrosodimethylamine | < 2.5 | 4-Nitrophenol | < 2.5 |
| Aniline | < 10 | Dibenzofuran | < 2.5 |
| Phenol | < 2.5 | 2,4-Dinitrotoluene | < 2.5 |
| bis(2-Chloroethyl)Ether | < 2.5 | 2,6-Dinitrotoluene | < 2.5 |
| 2-Chlorophenol | < 2.5 | Diethylphthalate | < 2.5 |
| 1,3-Dichlorobenzene | < 2.5 | 4-Chlorophenyl-phenylether | < 2.5 |
| 1,4-Dichlorobenzene | < 2.5 | Fluorene | < 1.0 |
| Benzyl Alcohol | < 2.5 | 4-Nitroaniline | < 2.5 |
| 1,2-Dichlorobenzene | < 2.5 | 4,6-Dinitro-2-Methylphenol | < 10 |
| 2-Methylphenol | < 2.5 | Ni-Nitrosodiphenylamine | < 2.5 |
| bis(2-Chloroisopropyl)Ether | < 2.5 | 4-Bromophenyl-phenylether | < 2.5 |
| 4-Methylphenol | < 2.5 | Hexachlorobenzene | < 2.5 |
| N-Nitroso-di-n-Propylamine | < 2.5 | Pentachlorophenol | < 2.5 |
| Hexachloroethane | < 2.5 | Phenanthrene | < 1.0 |
| Nitrobenzene | < 2.5 | Anthracene | < 1.0 |
| Isophorone | < 2.5 | Di-n-butylphthalate | < 2.5 |
| 2-Nitrophenol | < 2.5 | Fluoranthene | < 1.0 |
| 2,4-Dimethylphenol | < 2.5 | Benzidine | < 20 |
| Benzoic Acid | < 10 | Pyrene | < 1.0 |
| bis(2-Chloroethoxy)methane | < 2.5 | Butylbenzylphthalate | < 2.5 |
| 2,4-Dichlorophenol | < 2.5 | 3,3-Dichlorobenzidine | < 20 |
| 1,2,4-Trichlorobenzene | < 2.5 | Benzo(a)anthracene | < 1.0 |
| Naphthalene | < 1.0 | bis(2-ethylhexyl)phthalate | < 2.5 |
| 4-Chloroaniline | < 10 | Chrysene | < 1.0 |
| Hexachlorobutadiene | < 2.5 | Di-n-octyl phthalate | < 2.5 |
| 4-Chloro-3-Methylphenol | < 2.5 | Benzo(b)Fluoranthene | < 1.0 |
| 2-Methylnaphthalene | < 1.0 | Benzo(k)Fluoranthene | < 1.0 |
| Hexachlorocyclopentadiene | < 2.5 | Benzo(a)pyrene | < 1.0 |
| 2,4,6-Trichlorophenol | < 2.5 | Indeno(1,2,3-c,d)pyrene | < 1.0 |
| 2,4,5-Trichlorophenol | < 2.5 | Dibenzo(a,h)anthracene | < 1.0 |
| 2-Chloronaphthalene | < 2.5 | Benzo(g,h,i)perylene | < 1.0 |
| 2-Nitroaniline | < 2.5 | Carbazole | < 2.5 |
| Dimethyl Phthalate | < 2.5 | Biphenyl | < 2.5 |
| Acenaphthylene | < 1.0 | n-decane | < 2.5 |
| 3-Nitroaniline | < 2.5 | n-octadecane | < 2.5 |
| Acenaphthene | < 1.0 | 1-Methylnaphthalene | < 1.0 |
| | | 2,3,4,5-tetrachlorophenol | < 2.5 |
| | | 2,3,4,6-tetrachlorophenol | < 2.5 |

SURROGATE RECOVERIES

| | | | | | |
|------------------|-----|---|----------------------|----|---|
| Nitrobenzene-d5 | 119 | % | 2-Fluorophenol | 86 | % |
| 2-Fluorobiphenyl | 56 | % | Phenol-d5 | 75 | % |
| p-Terphenyl-d14 | 112 | % | 2,4,6-Tribromophenol | 83 | % |



Steven G. Hibbs
Laboratory Manager

September 23, 2014

Puget Sound Coatings
9220 8th Ave. S.
Seattle, WA 98108

Project: City Split Samples
Sample matrix: Water
Spectra Project: 2014090268
Method 625/8270-SIM

Date Extracted: 09/12/14
Date Analyzed: 09/13/14
Applies to Samples: 1-2
< = less than

POLYNUCLEAR AROMATIC HYDROCARBON ANALYSIS QUALITY CONTROL RESULTS

Method Blank

| Compound | Blank Result, ug/L |
|------------------------|--------------------|
| Naphthalene | <0.10 |
| 2-Methylnaphthalene | <0.10 |
| 1-Methylnaphthalene | <0.10 |
| Acenaphthylene | <0.10 |
| Acenaphthene | <0.10 |
| Fluorene | <0.10 |
| Phenanthrene | <0.10 |
| Anthracene | <0.10 |
| Fluoranthene | <0.10 |
| Pyrene | <0.10 |
| Benzo(a)Anthracene | <0.10 |
| Chrysene | <0.10 |
| Benzo(b)Fluoranthene | <0.10 |
| Benzo(k)Fluoranthene | <0.10 |
| Benzo(a)Pyrene | <0.10 |
| Indeno(1,2,3-cd)Pyrene | <0.10 |
| Dibenzo(a,h)Anthracene | <0.10 |
| Benzo(g,h,i)Perylene | <0.10 |
| Pentachlorophenol | <0.10 |

SURROGATE RECOVERIES

| | %Rec |
|----------------------|------|
| Nitrobenzene-d5 | 119 |
| 2-Fluorobiphenyl | 57 |
| p-Terphenyl-d14 | 112 |
| 2,4,6-Tribromophenol | 83 |



Steven G. Hibbs
Laboratory Manager



SPECTRA Laboratories

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September 24, 2014

Puget Sound Coatings
9220 8th Ave. S.
Seattle, WA 98108

Spectra Project: 2014090268
Sample Matrix: Soil
EPA Method: 8260C--Low Level
Spiked Sample: 2014090268-3
Date Analyzed: 9/23/2014
Units: mg/Kg wet wt.
Applies to: #3

GCMS VOLATILE ORGANIC ANALYSIS METHOD 8260C Matrix Spike/ Matrix Spike Duplicate Duplicate (MS/MSD) Results

| COMPOUND | SAMPLE RESULT | SPIKE AMOUNT | SPIKE RESULT | % REC | DUP RESULT | DUP % REC | % RPD |
|--------------------|------------------|-----------------|-----------------|----------|---------------|--------------|----------|
| 1,1-Dichloroethene | <0.005 | 0.050 | 0.0512 | 102 | 0.0533 | 107 | 4 |
| Trichloroethene | <0.005 | 0.050 | 0.0406 | 81 | 0.0418 | 84 | 3 |
| Benzene | <0.005 | 0.050 | 0.0332 | 66 | 0.0370 | 74 | 11 |
| Toluene | 0.013 | 0.050 | 0.0682 | 110 | 0.0668 | 107 | 3 |
| Chlorobenzene | <0.005 | 0.050 | 0.0388 | 78 | 0.0442 | 88 | 13 |

Surrogates

| | MS | MSD |
|-----------------------|-----|-----|
| Dibromofluoromethane | 110 | 110 |
| 1,2-Dichloroethane-d4 | 147 | 145 |
| Toluene-d8 | 109 | 111 |
| 4-Bromofluorobenzene | 117 | 125 |

Spectra Laboratories, Inc.



Steven G. Hibbs
Laboratory Manager



SPECTRA Laboratories

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September 24, 2014

Puget Sound Coatings
9220 8th Ave. S.
Seattle, WA 98108

Sample ID: Method Blank
Project:
Sample Matrix: Soil
Spectra Project: 2014090268

Methanolic Extraction
Date Received:
Date Analyzed:
Sample Weight (g):
< = less than
Applies to: #3

9/10/2014
9/23/2014
5.00

VOLATILE ORGANIC ANALYSIS:

| Compound | mg/Kg Dry wt. | Compound | METHOD 8260C-5035 Sparge mg/Kg Dry wt. |
|------------------------------------|---------------|-----------------------------|---|
| Acetone | < 0.050 | 1,2-Dichloropropane | < 0.005 |
| Benzene | < 0.005 | 1,3-Dichloropropane | < 0.005 |
| Bromobenzene | < 0.005 | cis-1,3-Dichloropropene | < 0.005 |
| Bromochloromethane | < 0.005 | trans-1,3-Dichloropropene | < 0.005 |
| Bromodichloromethane | < 0.005 | 2,2-Dichloropropane | < 0.005 |
| Bromoform | < 0.005 | 1,1-Dichloropropene | < 0.005 |
| Bromomethane | < 0.005 | Ethylbenzene | < 0.005 |
| 2-Butanone (MEK) | < 0.050 | 2-Hexanone (MBK) | < 0.050 |
| n-Butylbenzene | < 0.005 | Hexachlorobutadiene | < 0.005 |
| sec-Butylbenzene | < 0.005 | Isopropylbenzene | < 0.005 |
| tert-Butylbenzene | < 0.005 | p-Isopropyltoluene | < 0.005 |
| Carbon tetrachloride | < 0.005 | Methylene chloride | < 0.005 |
| Chlorobenzene | < 0.005 | 4-Methyl-2-pentanone (MIBK) | < 0.005 |
| Chlorodibromomethane | < 0.005 | Naphthalene | < 0.005 |
| Chloroethane | < 0.005 | n-Propylbenzene | < 0.005 |
| Chloroform | < 0.005 | Styrene | < 0.005 |
| Chloromethane | < 0.005 | 1,1,1,2-Tetrachloroethane | < 0.005 |
| 2-Chlorotoluene | < 0.005 | 1,1,2,2-Tetrachloroethane | < 0.005 |
| 4-Chlorotoluene | < 0.005 | Tetrachloroethene | < 0.005 |
| 1,2-Dibromo-3-Chloropropane (DBCP) | < 0.005 | Toluene | < 0.005 |
| 1,2-Dibromoethane (EDB) | < 0.0050 | 1,2,3-Trichlorobenzene | < 0.005 |
| Dibromomethane | < 0.005 | 1,2,4-Trichlorobenzene | < 0.005 |
| 1,2-Dichlorobenzene | < 0.005 | 1,1,1-Trichloroethane | < 0.005 |
| 1,3-Dichlorobenzene | < 0.005 | 1,1,2-Trichloroethane | < 0.005 |
| 1,4-Dichlorobenzene | < 0.005 | Trichloroethene | < 0.005 |
| Dichlorodifluoromethane | < 0.005 | Trichlorofluoromethane | < 0.005 |
| 1,1-Dichloroethane | < 0.005 | 1,2,3-Trichloropropane | < 0.005 |
| 1,2-Dichloroethane | < 0.005 | 1,2,4-Trimethylbenzene | < 0.005 |
| 1,1-Dichloroethene | < 0.005 | 1,3,5-Trimethylbenzene | < 0.005 |
| cis-1,2-Dichloroethene | < 0.005 | Vinyl chloride | < 0.005 |
| trans-1,2,-Dichloroethene | < 0.005 | Total Xylenes | < 0.010 |
| | | Methyl tert-butyl ether | < 0.005 |
| | | Acrolein | < 0.050 |
| | | Acrylonitrile | < 0.050 |
| | | Vinyl Acetate | < 0.050 |

SURROGATE RECOVERIES

| | | |
|-----------------------|-----|---|
| Dibromofluoromethane | 112 | % |
| 1,2-Dichloroethane-d4 | 140 | % |
| Toluene-d8 | 91 | % |
| 4-Bromofluorobenzene | 100 | % |



Steven G. Hibbs
Laboratory Manager

September 25, 2014

Puget Sound Coatings
9220 8th Ave. S.
Seattle, WA 98108Spectra Project # 2014090268
Sample Spiked: Method Blank
Date Extracted: 9/12/2014
Date Analyzed: 9/13/2014
Units: ug/L
Applies to Spectra #'s: #1-2

GCMS Semi-Volatile Organic Analysis Method 625/8270 Blank Spike (LCS) Results

| Compound | Sample Conc. | Spike Added | MS Conc. | MS %Rec |
|----------------------------|-----------------|----------------|-------------|------------|
| Phenol | <2.50 | 75 | 53.0 | 71 |
| 2-Chlorophenol | <2.50 | 75 | 53.0 | 71 |
| 1,4-Dichlorobenzene | <2.50 | 50 | 20.9 | 42 |
| N-Nitroso-Di-N-Propylamine | <2.50 | 50 | 51.3 | 103 |
| 1,2,4-Trichlorobenzene | <2.50 | 50 | 24.4 | 49 |
| 4-Chloro-3-Methylphenol | <2.50 | 75 | 53.7 | 72 |
| Acenaphthene | <1.00 | 50 | 34.6 | 69 |
| 2,4-Dinitrotoluene | <2.50 | 50 | 33.2 | 66 |
| 4-Nitrophenol | <2.50 | 75 | 93.7 | 125 |
| Pentachlorophenol | <2.50 | 75 | 54.3 | 72 |
| Pyrene | <1.00 | 50 | 34.7 | 69 |

| Surrogates | MS%Rec |
|----------------------|--------|
| 2-Fluorophenol | 84 |
| Phenol-d5 | 88 |
| Nitrobenzene-d5 | 119 |
| 2-Fluorobiphenyl | 76 |
| 2,4,6-Tribromophenol | 92 |
| p-Terphenyl-d14 | 112 |



Steven G. Hibbs
Laboratory Manager



SPECTRA Laboratories

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September 25, 2014

Puget Sound Coatings
9220 8th Ave. S.
Seattle, WA 98108

Sample Matrix:
Spectra Project:
Applies to:

Soil
2014090268
#3

Date Extracted:
Date Analyzed:
Dilution:
< = less than

9/15/2014
9/17/2014
1

SEMIVOLATILE ORGANIC ANALYSIS METHOD BLANK RESULTS

| Compound | mg/Kg | Compound | METHOD 8270 mg/Kg |
|-----------------------------|--------|----------------------------|----------------------|
| Pyridine | < 0.20 | Acenaphthene | < 0.02 |
| N-Nitrosodimethylamine | < 0.05 | 2,4-Dinitrophenol | < 0.20 |
| Aniline | < 0.20 | 4-Nitrophenol | < 0.05 |
| Phenol | < 0.05 | Dibenzofuran | < 0.05 |
| bis(2-Chloroethyl)Ether | < 0.05 | 2,4-Dinitrotoluene | < 0.05 |
| 2-Chlorophenol | < 0.05 | 2,6-Dinitrotoluene | < 0.05 |
| 1,3-Dichlorobenzene | < 0.05 | Diethylphthalate | < 0.05 |
| 1,4-Dichlorobenzene | < 0.05 | 4-Chlorophenyl-phenylether | < 0.05 |
| Benzyl Alcohol | < 0.05 | Fluorene | < 0.02 |
| 1,2-Dichlorobenzene | < 0.05 | 4-Nitroaniline | < 0.05 |
| 2-Methylphenol | < 0.05 | 4,6-Dinitro-2-Methylphenol | < 0.20 |
| bis(2-Chloroisopropyl)Ether | < 0.05 | Ni-Nitrosodiphenylamine | < 0.05 |
| 4-Methylphenol | < 0.05 | 4-Bromophenyl-phenylether | < 0.05 |
| N-Nitroso-di-n-Propylamine | < 0.05 | Hexachlorobenzene | < 0.05 |
| Hexachloroethane | < 0.05 | Pentachlorophenol | < 0.05 |
| Nitrobenzene | < 0.05 | Phenanthrene | < 0.02 |
| Isophorone | < 0.05 | Anthracene | < 0.02 |
| 2-Nitrophenol | < 0.05 | Di-n-butylphthalate | < 0.05 |
| 2,4-Dimethylphenol | < 0.05 | Fluoranthene | < 0.02 |
| Benzoic Acid | < 0.20 | Benzidine | < 0.40 |
| bis(2-Chloroethoxy)methane | < 0.05 | Pyrene | < 0.02 |
| 2,4-Dichlorophenol | < 0.05 | Butylbenzylphthalate | < 0.05 |
| 1,2,4-Trichlorobenzene | < 0.05 | 3,3-Dichlorobenzidine | < 0.40 |
| Naphthalene | < 0.02 | Benzo(a)anthracene | < 0.02 |
| 4-Chloroaniline | < 0.05 | bis(2-ethylhexyl)phthalate | 0.07 |
| Hexachlorobutadiene | < 0.05 | Chrysene | < 0.02 |
| 4-Chloro-3-Methylphenol | < 0.05 | Di-n-octyl phthalate | < 0.05 |
| 2-Methylnaphthalene | < 0.02 | Benzo(b)Fluoranthene | < 0.02 |
| Hexachlorocyclopentadiene | < 0.05 | Benzo(k)Fluoranthene | < 0.02 |
| 2,4,6-Trichlorophenol | < 0.05 | Benzo(a)pyrene | < 0.02 |
| 2,4,5-Trichlorophenol | < 0.05 | Indeno(1,2,3-c,d)pyrene | < 0.02 |
| 2-Chloronaphthalene | < 0.05 | Dibenzo(a,h)anthracene | < 0.02 |
| 2-Nitroaniline | < 0.05 | Benzo(g,h,i)perylene | < 0.02 |
| Dimethyl Phthalate | < 0.05 | Carbazole | < 0.05 |
| Acenaphthylene | < 0.02 | Biphenyl | < 0.05 |
| 3-Nitroaniline | < 0.05 | 1-Methylnaphthalene | < 0.05 |
| | | Dibenzothiophene | < 0.05 |
| | | Tetrachlorophenol | < 0.05 |

SURROGATE RECOVERIES

| | | | | | |
|------------------|----|---|----------------------|----|---|
| Nitrobenzene-d5 | 70 | % | 2-Fluorophenol | 52 | % |
| 2-Fluorobiphenyl | 54 | % | Phenol-d5 | 39 | % |
| p-Terphenyl-d14 | 67 | % | 2,4,6-Tribromophenol | 51 | % |



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September 25, 2014

Puget Sound Coatings
9220 8th Ave. S.
Seattle, WA 98108

METHOD BLANK RESULTS

Sample matrix: Soil
Spectra Project: 2014090268
Applies to: #3


Date Extracted: 9/15/2014
Date Analyzed: 9/17/2014
Dilution: 1
< = less than

POLYNUCLEAR AROMATIC HYDROCARBON ANALYSIS

| Compound | mg/Kg | Compound | mg/Kg | METHOD 8270 |
|---------------------|---------|------------------------|---------|-------------|
| Naphthalene | < 0.003 | Benzo(a)Anthracene | < 0.003 | |
| 2-Methylnaphthalene | < 0.003 | Chrysene | < 0.003 | |
| Acenaphthylene | < 0.003 | Benzo(b)Fluoranthene | < 0.003 | |
| Acenaphthene | < 0.003 | Benzo(k)Fluoranthene | < 0.003 | |
| Fluorene | < 0.003 | Benzo(a)Pyrene | < 0.003 | |
| Phenanthrene | < 0.003 | Indeno(1,2,3-cd)Pyrene | < 0.003 | |
| Anthracene | < 0.003 | Dibenzo(a,h)Anthracene | < 0.003 | |
| Fluoranthene | < 0.003 | Benzo(g,h,i)Perylene | < 0.003 | |
| Pyrene | < 0.003 | 1-Methylnaphthalene | < 0.003 | |

SURROGATE RECOVERIES

| | | |
|------------------|----|---|
| Nitrobenzene-d5 | 72 | % |
| 2-Fluorobiphenyl | 56 | % |
| p-Terphenyl-d14 | 67 | % |



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September 26, 2014

Puget Sound Coatings
9220 8th Ave. S.
Seattle, WA 98108

Method: NWTPH-Dx
Sample Matrix: Soil
Spectra Project: 2014090268
Applies to Spectra #: 3
Units: mg/Kg

HYDROCARBON ANALYSIS QUALITY CONTROL RESULTS

MS/MSD

| | | | | | | | |
|-----------------|----------------------|---------------------------|---------------------------|-------------------------|--------------------------------|-------------------------|--------------|
| Spiked Sample: | 080379-1 | Date Extracted: | 8/25/2014 | | | | |
| | | Date Analyzed: | 8/25/2014 | | | | |
| | | Dup. Spike | | | | | |
| <u>Compound</u> | <u>Sample Result</u> | <u>Spike Amount Added</u> | <u>Spike Amount Found</u> | <u>Percent Recovery</u> | <u>Dup. Spike Amount Found</u> | <u>Percent Recovery</u> | <u>% RPD</u> |
| Diesel | <10.0 | 250 | 220 | 88 | 202 | 81 | 8.7 |

BLANK SPIKE (LCS)

| | | | | |
|-----------------|----------------------|---------------------------|---------------------------|-------------------------|
| Date Extracted: | 9/23/2014 | Date Analyzed: | 9/24/2014 | |
| | | | | |
| <u>Compound</u> | <u>Sample Result</u> | <u>Spike Amount Added</u> | <u>Spike Amount Found</u> | <u>Percent Recovery</u> |
| Diesel | <10.0 | 125 | 101.9 | 81.52 |

METHOD BLANK

| | | | |
|-------------------------------|-------------|----------------|-----------|
| Date Extracted: | 9/23/2014 | Date Analyzed: | 9/24/2014 |
| WTPH-D | <10.0 | | |
| Heavy Oils | <50 | | |
| Surrogate Percent Recoveries: | | | |
| | p-terphenyl | 78% | |

SPECTRA LABORATORIES



Steven G. Hibbs, Laboratory Manager

September 26, 2014

Puget Sound Coatings
9220 8th Ave S.
Seattle, WA 98108

Method: EPA Method 8082
Sample Matrix: Solid
Units: mg/Kg
Spectra Project: 2014090268
Applies to Spectra # 1-2

PCB ANALYSIS
QUALITY CONTROL RESULTS

| Spiked Sample: | | 090468-1 | | MS/MSD | | Date Extracted: 9/25/2014 | | Date Analyzed: 9/25/2014 | |
|-----------------|----------------------|---------------------------|---------------------------|-------------------------|--------------------------------|---------------------------|------------|--------------------------|--|
| <u>Compound</u> | <u>Sample Result</u> | <u>Spike Amount Added</u> | <u>Spike Amount Found</u> | <u>Percent Recovery</u> | <u>Dup. Spike Amount Found</u> | <u>Percent Recovery</u> | <u>RPD</u> | | |
| AR1260 | <0.01 | 0.025 | 0.014 | 56 | 0.017 | 68 | 19 | | |

METHOD BLANK

Date Extracted: 9/25/2014 Date Analyzed: 9/25/2014

PCB's <0.01

Surrogate Percent Recoveries:

Decachlorobiphenyl 78%

SPECTRA LABORATORIES



Steven G. Hibbs, Laboratory Manager

September 26, 2014

Puget Sound Coatings
9220 8th Ave S.
Seattle, WA 98108

Method: EPA Method 608/808
Sample Matrix: Water
Units: ug/L
Spectra Project: 2014090268
Applies to Spectra # 1-2

**PCB ANALYSIS
QUALITY CONTROL RESULTS**

LCS/LCSD

Spiked Sample: Method Blank Date Extracted: 9/17/2014
Date Analyzed: 9/24/2014

| <u>Compound</u> | <u>Sample Result</u> | <u>Spike Amount Added</u> | <u>Spike Amount Found</u> | <u>Percent Recovery</u> | <u>Dup. Spike Amount Found</u> | <u>Percent Recovery</u> | <u>RPD</u> |
|-----------------|----------------------|---------------------------|---------------------------|-------------------------|--------------------------------|-------------------------|------------|
| AR1260 | <0.03 | 0.50 | 0.34 | 68 | 0.33 | 66 | 3 |

METHOD BLANK

Date Extracted: 9/17/2014 Date Analyzed: 9/24/2014

PCB's <0.03

Surrogate Percent Recoveries:

Decachlorobiphenyl 62%

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September 26, 2014

Puget Sound Coatings
9220 8th Ave. S.
Seattle, WA 98108

Method: NWTPH-G
Sample Matrix: Soil
Units: mg/Kg dry wt.
Spectra Project: 2014090268
Applies to Spectra # 3

HYDROCARBON ANALYSIS QUALITY CONTROL RESULTS

DUPLICATE

Duplicate Sample # 2014090450-1
Date Analyzed: 9/24/2014

| <u>Compound</u> | <u>Sample Result</u> | <u>Duplicate Result</u> | <u>RPD</u> |
|-----------------|--------------------------|-----------------------------|------------|
| Gasoline | 12 | 13 | 8 |

METHOD BLANK

Date Analyzed: 9/24/2014

WTPH-G 268

Surrogate Recoveries:

| | |
|------------|------|
| Toluene-d8 | 108% |
| BFB | 89% |

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Steven G. Hibbs, Laboratory Manager

